

October 1, 2024

Washington State Department of Ecology  
PO Box 47600  
Olympia, Washington 98504-7600

Attention: Jing Song

Subject: Post-Construction Groundwater Monitoring Progress Report (Round 1)  
701/709 South Jackson Street  
Seattle, Washington  
Facility Site ID: 99187287  
Cleanup Site ID: 11348  
GeoEngineers File No. 24504-001-04

## Introduction

On behalf of 701 S Jackson QOZB, LLC (South Jackson QOZB [formerly South Jackson Partners, LLC]), this progress report is being provided to present the results of the post-construction groundwater monitoring completed for the Seventh Avenue Service Site (Site) located at 701/709 South Jackson Street within the Chinatown-International District neighborhood of Seattle, Washington. In accordance with the Draft Groundwater Compliance Monitoring Plan (GeoEngineers 2023) and as required by the Washington State Department of Ecology (Ecology) in an email correspondence dated August 13, 2024, groundwater monitoring is being completed by South Jackson QOZB to evaluate post-construction Site conditions relative to the residual soil contamination remaining in-place beneath portions of the 7<sup>th</sup> Avenue South and South Jackson Street rights-of-way (ROW) beyond the 701/709 South Jackson Street property (Property) boundaries.

The Site is shown relative to surrounding physical features in the Vicinity Map, Figure 1. Current Site conditions following completion of the Ecology-approved 2023 Cleanup Action to address petroleum-related contamination resulting from historical land use (i.e., a former gasoline service station with associated automotive maintenance facilities) are shown in the Site Plan, Figure 2. Post-construction groundwater monitoring activities are summarized below.

## Groundwater Monitoring Approach

Performance monitoring is being completed on a quarterly basis to document post-construction groundwater conditions and compliance with the cleanup standards established by the Cleanup Action Plan (CAP; Ecology 2023). It is anticipated that performance monitoring will be completed until four consecutive groundwater sampling events indicate that contaminant concentrations are below the established cleanup levels. Once the performance groundwater monitoring results indicate that the MTCA cleanup levels have been met, long-term confirmational groundwater monitoring will then be completed on an annual basis until the first 5-year periodic review by Ecology or as otherwise determined by Ecology.

### GROUNDWATER MONITORING SCHEDULE

Post-construction groundwater monitoring will include the following events:

- Round 1 Groundwater Monitoring Event – Completed on August 20, 2024
- Round 2 Groundwater Monitoring Event – Anticipated for November 2024
- Round 3 Groundwater Monitoring Event – Anticipated for February 2025
- Round 4 Groundwater Monitoring Event – Anticipated for May 2025

The need for additional rounds of groundwater monitoring will be determined by Ecology based on the results of the initial four quarterly monitoring events.

### MONITORING WELL NETWORK

Previously installed groundwater monitoring wells GEI-11 and GEI-12 are being used to evaluate groundwater conditions within and/or down gradient of the areas of residual soil contamination beyond the Property boundary. Monitoring well GEI-13 (new monitoring well recently installed in the South Jackson Street ROW) is being used to evaluate and document groundwater north of the Property boundary and up-gradient of the cleanup action area. The locations of monitoring wells GEI-11 through GEI-13 are shown in Figure 2. Well construction details are summarized in Table 1.

### SAMPLING PROCEDURES

Groundwater samples were obtained from monitoring wells using low-flow/low-turbidity sampling techniques to minimize the suspension of sediment in groundwater samples. Prior to sampling, groundwater levels were measured in each monitoring well using an electric water level indicator (e-tape) to the nearest 0.01 foot relative to the surveyed casing rim elevations. Measured groundwater levels are summarized in Table 2.

Groundwater was pumped at 0.5 liters per minute or less using a GeoSub 2 - submersible pump through dedicated polyethylene tubing placed within the screened interval of each well. A water quality parameter measuring instrument with flow-through cell was used to monitor water quality parameters during purging. Groundwater samples were obtained after ambient groundwater conditions were attained at each well location. Groundwater field parameters measured at the time of sampling are presented in Table 2.

Once filled, sample containers were placed in iced coolers and transported to the analytical laboratory under chain of custody procedures.

## CHEMICAL ANALYSIS

Groundwater samples were submitted to Fremont Analytical, located in Seattle, Washington for chemical analysis for the following Site contaminants:

- Gasoline-range total petroleum hydrocarbons by Ecology Method NWTPH-Gx.
- Diesel- and heavy oil-range total petroleum hydrocarbons by Ecology Method NWTPH-Dx.
- Benzene, toluene, ethylbenzene and xylenes (BETX) by United States Environmental Protection Agency (EPA) Method 8260.
- Naphthalenes by EPA Method 8270.

In addition to the Site contaminants listed above, Ecology in their email correspondence also required the following chemical analysis for consistency with Table 830-1 (Washington Administrative Code [WAC] 173-340-900):

- Volatile organic compounds (VOCs) including, 1,2-dibromoethane (EDB), 1,2-dichloroethane (EDC) and methyl t-butyl ether (MTBE) by EPA Method 8260.
- Total and dissolved lead by EPA Method 6020.

## Summary of Results

### GROUNDWATER FLOW

Measured groundwater elevations ranged between 34.68- and 35.83-feet referenced to North American Vertical Datum 1988 (NAVD88) during the initial post-construction quarterly groundwater monitoring event. Based on the measured groundwater elevations, the groundwater flow at the Site is to the west-southwest.

Groundwater elevations measured during each quarterly sampling event are summarized in Table 2 and shown in Figure 2.

### CHEMICAL ANALYTICAL RESULTS

The results of the first round of post-construction groundwater monitoring (Round 1 Groundwater Monitoring Event) are presented in Table 3 and are summarized below:

- **GEI-11** – Contaminants listed above were not detected at concentrations greater than the laboratory reporting limits that were less than their corresponding groundwater cleanup levels.
- **GEI-12** – Contaminants listed above were not detected at concentrations greater than the laboratory reporting limits that were less than their corresponding groundwater cleanup levels.
- **GEI-13** – Contaminants listed above were not detected at concentrations greater than the laboratory with reporting limits that were less than their corresponding groundwater cleanup levels.


## References

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.

GeoEngineers Inc. (GeoEngineers) 2024. Post-Construction Compliance Monitoring Plan, 701 South Jackson Property. Prepared for South Jackson Partners LLC. File No. 24504-001-01. August 16, 2024.

Post-construction groundwater conditions will continue to be evaluated in accordance with the CAP to document Site conditions. Please contact us with any questions or concerns.

Sincerely,



Robert S. Trahan, LG  
Senior Environmental Scientist

RST:JMH:ch



Tim Syverson, LHG  
Associate Environmental Geologist

Attachments:

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## Tables



**Table 1**  
**Monitoring Well Completion Details**  
701 South Jackson Street  
Seattle, Washington

Monitoring Well <sup>1</sup>	Date Installed	Installed By	Ecology Well Identification	Ground Elevation (ft MLLW)	Top of Casing Elevation (ft MLLW)	Bottom of Casing Elevation (ft MLLW)	Total Well Depth (ft bgs)	Screen Interval (ft bgs)	Well Casing and Screen Specifications <sup>2</sup>	Monitoring Well Coordinates (Latitude/Longitude)
GEI-11	04/06/22	GeoEngineers	BNC-885	93.18	92.68	22.68	70	60.0 - 70.0	2-Inch Diameter Schedule 40 PVC Well Casing and Screen with 0.010-Inch Slot Width	47.598851 -122.323695
GEI-12	04/05/22	GeoEngineers	BNC-886	97.58	97.08	22.08	75	65.0 - 75.0	2-Inch Diameter Schedule 40 PVC Well Casing and Screen with 0.010-Inch Slot Width	47.599017 -122.323695
GEI-13	06/06/24	GeoEngineers	BPW-535	102.54	102.02	27.54	75	65.0 - 75.0	2-Inch Diameter Schedule 40 PVC Well Casing and Screen with 0.010-Inch Slot Width	47.599083 -122.323348

**Notes:**

<sup>1</sup>Monitoring well locations are shown on Figure 2.

<sup>2</sup> Monitoring wells were installed using hollow-stem auger (HSA) drilling methods.

MLLW = mean lower low water

ft = feet

bgs = below ground surface

PVC = polyvinyl chloride

**Table 2**  
**Post-Construction Groundwater Elevation and Field Parameters**  
 701 South Jackson Street  
 Seattle, Washington

Groundwater Monitoring Well <sup>1</sup>	Groundwater Monitoring Event	Date Sampled	Top of Casing Elevation (ft MLLW)	Depth to Groundwater (ft)	Groundwater Elevation (ft MLLW)	pH	Specific Conductance (mS/cm)	Temperature (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	TDS (g/L)	Salinity (ppt)	Turbidity (NTU)
GEI-11	Round 1	08/20/24	92.68	58	34.68	7.4	0.914	17.0	1.46	40.0	0.594	0.45	20.0
GEI-12	Round 1	08/20/24	97.08	61.6	35.48	7.31	0.870	17.4	0.41	38.0	0.565	0.43	2.39
GEI-13	Round 1	08/20/24	102.54	66.19	36.35	7.28	0.840	17.0	2.70	43.2	0.548	0.42	4.11

**Notes:**

<sup>1</sup> Monitoring well locations shown on Figure 2.

°C = degree Celsius

ft = feet

g/L = grams per liter

mg/L = milligrams per liter

MLLW = Mean Lower Low Water

mV = millivolt

NTU = Nephelometric Turbidity Unit

ORP = oxidation/reduction potential

ppt = parts per thousand

TDS = total dissolved solids

mS/cm = milli- Siemens per centimeter

**Table 3**  
**Summary of Previous Groundwater Investigation Chemical Analytical Data**  
701 South Jackson Street  
Seattle, Washington

Sample Location <sup>1</sup>	GEI-11	GEI-12	GEI-13	DUP (GEI-11)	MTCA Cleanup Level <sup>3</sup>
Sample Identification	GEI-11-082024	GEI-12-082024	GEI-12-082024	DUP-082024	
Sample Date	08/20/24	08/20/24	08/20/24	08/20/24	
Depth To Groundwater (feet bgs)	58	61.6	66.19	N/A	
Groundwater Elevation <sup>2</sup> (feet NAVD88)	34.68	35.48	36.35	N/A	
<b>Petroleum Hydrocarbons by NWTPH-G/Dx (µg/L)</b>					
Gasoline-Range	100 U	100 U	100 U	100 U	800/1,000 <sup>4</sup>
Diesel-Range	91.9 U	92.1 U	93.3 U	92.8 U	500
Heavy Oil-Range	138 U	138 U	140 U	139 U	
Total Diesel and Heavy Oil-Range	230 U	230 U	233 U	232 U	500
<b>Volatile Organic Compounds (VOCs) by EPA 8260D (µg/L)</b>					
Benzene	0.200 U	0.200 U	0.200 U	0.200 U	5
Toluene	0.500 U	0.500 U	0.500 U	0.500 U	1,000
Ethylbenzene	0.500 U	0.500 U	0.500 U	0.500 U	700
Total Xylenes	1.00 U	1.00 U	1.00 U	1.00 U	1,000
1,2- Dibromoethane (EDB)	0.00985 U	0.00953 U	0.00984 U	0.00911 U	0.01
1,2- Dichloroethane (EDC)	0.200 U	0.200 U	0.200 U	0.200 U	5
Methyl tert-butyl ether (MTBE)	0.500 U	0.500 U	0.500 U	0.500 U	20
<b>Total Metals by EPA 200.8/245.1 (µg/L)</b>					
Lead	0.300 U	0.300 U	0.300 U	0.300 U	15
<b>Dissolved Metals by EPA 200.8/245.1 (µg/L)</b>					
Lead	0.300 U	0.300 U	0.300 U	0.300 U	15
<b>Polycyclic Aromatic Hydrocarbons (PAHs) by EPA 8270 (µg/L)</b>					
1-Methylnaphthalene	0.0949 U	0.0935 U	0.0939 U	0.0949 U	160
2-Methylnaphthalene	0.0949 U	0.0935 U	0.0939 U	0.0949 U	32
Naphthalene	0.0949 U	0.0935 U	0.0939 U	0.0949 U	560



**Notes:**

<sup>1</sup> Approximate sample locations are shown on Figure 2.

<sup>2</sup> Groundwater elevation referenced to North American Vertical Datum 1988 (NAVD88).

<sup>3</sup> 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.

<sup>4</sup> 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.

bgs = below ground surface

µg/L = micrograms per liter

MTCA = Model Toxics Control Act

EPA = United States Environmental Protection Agency

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

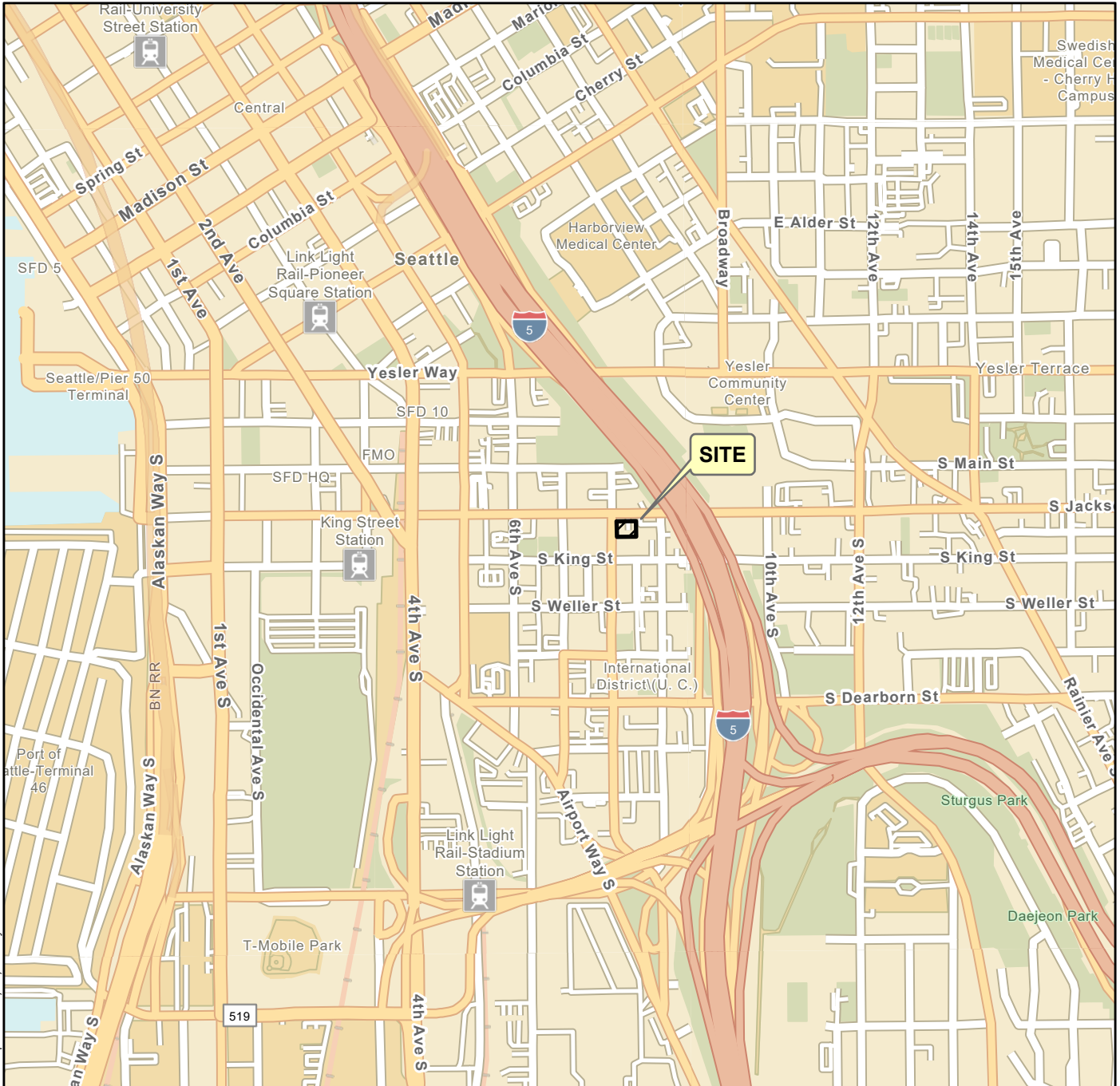
-- = not analyzed

NE = not established

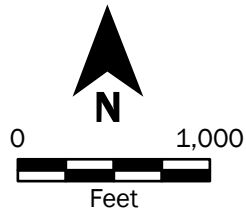
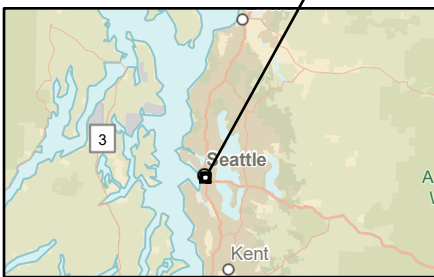
**Bold** font type indicates the chemical of concern was detected.

## Figures





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**Vicinity Map**

701 South Jackson Street  
Seattle, Washington



**Figure 1**

Source(s):  
• ESRI

Coordinate System: NAD 1983 UTM Zone 10N

**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.

P:\24\24504001\CAD\04 Post-Construction Groundwater Monitoring Plan\2450400103\_F02\_Site Plan.dwg 2 Date Exported: 5/19/2024 2:51 PM - by Jackson N. Fellows



**Legend**

- Property Boundary
- Parcel Boundary
- Topographic Contour (Feet, NAVD88)
- Property Redevelopment Area
- Extent of Residual Soil Contamination
- Vapor Barrier (Planned Extent)
- Monitoring Well (Existing)
- Monitoring Well (New)
- Soil Vapor Pin (New)
- Inferred Groundwater Flow Direction
- Groundwater Contour (Feet, NAVD88)

**Note(s):**

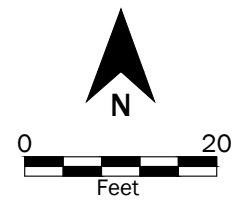
1. Elevations on this plan reference the North American Vertical Datum of 1988 (NAVD88).

**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.



<b>Site Plan</b>	
701 South Jackson Street Seattle, Washington	
	<b>Figure 2</b>

# Laboratory Data Report



**GeoEngineers**

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

**RE: 701/709 South Jackson, 24504-001-04**

**Work Order Number: 2408312**

August 28, 2024

**Attention Robert Trahan:**

Fremont Analytical, Inc, an Alliance Technical Group company, received 5 sample(s) on 8/20/2024 for the analyses presented in the following report.

***Diesel and Heavy Oil by NWTPH-Dx***

***Dissolved Metals by EPA 6020B***

***EDB by EPA 8011***

***Gasoline by NWTPH-Gx***

***PAHs by EPA Method 8270E SIM***

***Total Metals by EPA 6020B***

***Volatile Organic Compounds by EPA 8260D***

All analyses were performed according to our accredited Quality Assurance program. Please contact the laboratory if you should have any questions about the results.

Please note, while the appearance of our logo and branding will update, our commitment to accuracy, speed, and customer service remain values celebrated and shared by Alliance Technical Group. Thank you for the opportunity to serve you.

Sincerely,



DoD-ELAP Accreditation #79636 by PJLA, ISO/IEC 17025:2017 and QSM 5.4 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



Brianna Barnes  
Project Manager

*DoD-ELAP Accreditation #79636 by PJLA, ISO/IEC 17025:2017 and QSM 5.4 for Environmental Testing  
ORELAP Certification: WA 100009 (NELAP Recognized) for Environmental Testing  
Washington State Department of Ecology Accredited for Environmental Testing, Lab ID C910*



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Original

[www.fremontanalytical.com](http://www.fremontanalytical.com)

**CLIENT:** GeoEngineers  
**Project:** 701/709 South Jackson  
**Work Order:** 2408312

**Work Order Sample Summary**

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
2408312-001	GEI-11_082024	08/20/2024 10:50 AM	08/20/2024 3:20 PM
2408312-002	GEI-12_082024	08/20/2024 12:00 PM	08/20/2024 3:20 PM
2408312-003	GEI-13_082024	08/20/2024 1:30 PM	08/20/2024 3:20 PM
2408312-004	Dup_082024	08/20/2024 12:00 AM	08/20/2024 3:20 PM
2408312-005	Trip Blank	08/19/2024 12:00 PM	08/20/2024 3:20 PM

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



**CLIENT:** GeoEngineers  
**Project:** 701/709 South Jackson

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**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:** 8/20/2024 10:50:00 AM

**Project:** 701/709 South Jackson

**Lab ID:** 2408312-001

**Matrix:** Water

**Client Sample ID:** GEI-11\_082024

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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**EDB by EPA 8011**

Batch ID: 44994 Analyst: CO

1,2-Dibromoethane (EDB)	ND	0.00985		µg/L	1	8/26/2024 2:19:14 PM
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**Diesel and Heavy Oil by NWTPH-Dx**

Batch ID: 44970 Analyst: AP

Diesel Range Organics	ND	91.9		µg/L	1	8/26/2024 5:10:55 PM
Heavy Oil	ND	138		µg/L	1	8/26/2024 5:10:55 PM
Total Petroleum Hydrocarbons	ND	230		µg/L	1	8/26/2024 5:10:55 PM
Surr: 2-Fluorobiphenyl	83.5	50 - 150		%Rec	1	8/26/2024 5:10:55 PM
Surr: o-Terphenyl	82.5	50 - 150		%Rec	1	8/26/2024 5:10:55 PM

**PAHs by EPA Method 8270E SIM**

Batch ID: 44929 Analyst: RG

Naphthalene	ND	0.0949		µg/L	1	8/22/2024 2:51:47 PM
2-Methylnaphthalene	ND	0.0949		µg/L	1	8/22/2024 2:51:47 PM
1-Methylnaphthalene	ND	0.0949		µg/L	1	8/22/2024 2:51:47 PM
Surr: 2-Fluorobiphenyl	93.2	43.2 - 131		%Rec	1	8/22/2024 2:51:47 PM
Surr: Terphenyl-d14	119	46.1 - 140		%Rec	1	8/22/2024 2:51:47 PM

**Gasoline by NWTPH-Gx**

Batch ID: 44956 Analyst: FG

Gasoline Range Organics	ND	100		µg/L	1	8/23/2024 1:32:15 PM
Surr: Toluene-d8	95.9	65 - 135		%Rec	1	8/23/2024 1:32:15 PM
Surr: 4-Bromofluorobenzene	92.1	65 - 135		%Rec	1	8/23/2024 1:32:15 PM

**Volatile Organic Compounds by EPA 8260D**

Batch ID: 44941 Analyst: KJ

Methyl tert-butyl ether (MTBE)	ND	0.500		µg/L	1	8/21/2024 4:23:01 PM
1,2-Dichloroethane (EDC)	ND	0.200		µg/L	1	8/21/2024 4:23:01 PM
Benzene	ND	0.200		µg/L	1	8/21/2024 4:23:01 PM
Toluene	ND	0.500		µg/L	1	8/21/2024 4:23:01 PM
Ethylbenzene	ND	0.500		µg/L	1	8/21/2024 4:23:01 PM
m,p-Xylene	ND	1.00		µg/L	1	8/21/2024 4:23:01 PM
o-Xylene	ND	0.500		µg/L	1	8/21/2024 4:23:01 PM
Surr: Dibromofluoromethane	107	82.4 - 122.4		%Rec	1	8/21/2024 4:23:01 PM
Surr: Toluene-d8	117	81.4 - 121.4		%Rec	1	8/21/2024 4:23:01 PM
Surr: 1-Bromo-4-fluorobenzene	107	80.1 - 120.1		%Rec	1	8/21/2024 4:23:01 PM



# Analytical Report

Work Order: 2408312  
 Date Reported: 8/28/2024

**Client:** GeoEngineers

**Collection Date:** 8/20/2024 10:50:00 AM

**Project:** 701/709 South Jackson

**Lab ID:** 2408312-001

**Matrix:** Water

**Client Sample ID:** GEI-11\_082024

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b><u>Dissolved Metals by EPA 6020B</u></b>				Batch ID: 44939		Analyst: SLL
Lead	ND	0.300		µg/L	1	8/21/2024 3:08:00 PM
<b><u>Total Metals by EPA 6020B</u></b>				Batch ID: 44989		Analyst: ME
Lead	ND	0.300		µg/L	1	8/26/2024 5:31:00 PM

**Client:** GeoEngineers

**Collection Date:** 8/20/2024 12:00:00 PM

**Project:** 701/709 South Jackson

**Lab ID:** 2408312-002

**Matrix:** Water

**Client Sample ID:** GEI-12\_082024

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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**EDB by EPA 8011**

Batch ID: 44994 Analyst: CO

1,2-Dibromoethane (EDB)	ND	0.00953		µg/L	1	8/26/2024 2:27:32 PM
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**Diesel and Heavy Oil by NWTPH-Dx**

Batch ID: 44970 Analyst: AP

Diesel Range Organics	ND	92.1		µg/L	1	8/26/2024 5:22:49 PM
Heavy Oil	ND	138		µg/L	1	8/26/2024 5:22:49 PM
Total Petroleum Hydrocarbons	ND	230		µg/L	1	8/26/2024 5:22:49 PM
Surr: 2-Fluorobiphenyl	104	50 - 150		%Rec	1	8/26/2024 5:22:49 PM
Surr: o-Terphenyl	102	50 - 150		%Rec	1	8/26/2024 5:22:49 PM

**PAHs by EPA Method 8270E SIM**

Batch ID: 44929 Analyst: RG

Naphthalene	ND	0.0935		µg/L	1	8/22/2024 3:21:44 PM
2-Methylnaphthalene	ND	0.0935		µg/L	1	8/22/2024 3:21:44 PM
1-Methylnaphthalene	ND	0.0935		µg/L	1	8/22/2024 3:21:44 PM
Surr: 2-Fluorobiphenyl	92.9	43.2 - 131		%Rec	1	8/22/2024 3:21:44 PM
Surr: Terphenyl-d14	113	46.1 - 140		%Rec	1	8/22/2024 3:21:44 PM

**Gasoline by NWTPH-Gx**

Batch ID: 44956 Analyst: FG

Gasoline Range Organics	ND	100		µg/L	1	8/23/2024 2:00:55 PM
Surr: Toluene-d8	94.4	65 - 135		%Rec	1	8/23/2024 2:00:55 PM
Surr: 4-Bromofluorobenzene	91.6	65 - 135		%Rec	1	8/23/2024 2:00:55 PM

**Volatile Organic Compounds by EPA 8260D**

Batch ID: 44941 Analyst: KJ

Methyl tert-butyl ether (MTBE)	ND	0.500		µg/L	1	8/21/2024 5:30:33 PM
1,2-Dichloroethane (EDC)	ND	0.200		µg/L	1	8/21/2024 5:30:33 PM
Benzene	ND	0.200		µg/L	1	8/21/2024 5:30:33 PM
Toluene	ND	0.500		µg/L	1	8/21/2024 5:30:33 PM
Ethylbenzene	ND	0.500		µg/L	1	8/21/2024 5:30:33 PM
m,p-Xylene	ND	1.00		µg/L	1	8/21/2024 5:30:33 PM
o-Xylene	ND	0.500		µg/L	1	8/21/2024 5:30:33 PM
Surr: Dibromofluoromethane	105	82.4 - 122.4		%Rec	1	8/21/2024 5:30:33 PM
Surr: Toluene-d8	118	81.4 - 121.4		%Rec	1	8/21/2024 5:30:33 PM
Surr: 1-Bromo-4-fluorobenzene	107	80.1 - 120.1		%Rec	1	8/21/2024 5:30:33 PM



# Analytical Report

Work Order: 2408312  
Date Reported: 8/28/2024

Client: GeoEngineers

Collection Date: 8/20/2024 12:00:00 PM

Project: 701/709 South Jackson

Lab ID: 2408312-002

Matrix: Water

Client Sample ID: GEI-12\_082024

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b><u>Dissolved Metals by EPA 6020B</u></b>				Batch ID: 44939		Analyst: SLL
Lead	ND	0.300		µg/L	1	8/21/2024 3:11:00 PM
<b><u>Total Metals by EPA 6020B</u></b>				Batch ID: 44989		Analyst: ME
Lead	ND	0.300		µg/L	1	8/26/2024 5:33:00 PM

**Client:** GeoEngineers

**Collection Date:** 8/20/2024 1:30:00 PM

**Project:** 701/709 South Jackson

**Lab ID:** 2408312-003

**Matrix:** Water

**Client Sample ID:** GEI-13\_082024

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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**EDB by EPA 8011**

Batch ID: 44994 Analyst: CO

1,2-Dibromoethane (EDB)	ND	0.00984		µg/L	1	8/26/2024 2:35:49 PM
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**Diesel and Heavy Oil by NWTPH-Dx**

Batch ID: 44970 Analyst: AP

Diesel Range Organics	ND	93.3		µg/L	1	8/26/2024 5:34:39 PM
Heavy Oil	ND	140		µg/L	1	8/26/2024 5:34:39 PM
Total Petroleum Hydrocarbons	ND	233		µg/L	1	8/26/2024 5:34:39 PM
Surr: 2-Fluorobiphenyl	101	50 - 150		%Rec	1	8/26/2024 5:34:39 PM
Surr: o-Terphenyl	104	50 - 150		%Rec	1	8/26/2024 5:34:39 PM

**PAHs by EPA Method 8270E SIM**

Batch ID: 44929 Analyst: RG

Naphthalene	ND	0.0939		µg/L	1	8/22/2024 3:51:27 PM
2-Methylnaphthalene	ND	0.0939		µg/L	1	8/22/2024 3:51:27 PM
1-Methylnaphthalene	ND	0.0939		µg/L	1	8/22/2024 3:51:27 PM
Surr: 2-Fluorobiphenyl	101	43.2 - 131		%Rec	1	8/22/2024 3:51:27 PM
Surr: Terphenyl-d14	119	46.1 - 140		%Rec	1	8/22/2024 3:51:27 PM

**Gasoline by NWTPH-Gx**

Batch ID: 44956 Analyst: FG

Gasoline Range Organics	ND	100		µg/L	1	8/23/2024 2:29:33 PM
Surr: Toluene-d8	94.8	65 - 135		%Rec	1	8/23/2024 2:29:33 PM
Surr: 4-Bromofluorobenzene	90.2	65 - 135		%Rec	1	8/23/2024 2:29:33 PM

**Volatile Organic Compounds by EPA 8260D**

Batch ID: 44941 Analyst: KJ

Methyl tert-butyl ether (MTBE)	ND	0.500		µg/L	1	8/21/2024 6:03:36 PM
1,2-Dichloroethane (EDC)	ND	0.200		µg/L	1	8/21/2024 6:03:36 PM
Benzene	ND	0.200		µg/L	1	8/21/2024 6:03:36 PM
Toluene	ND	0.500		µg/L	1	8/21/2024 6:03:36 PM
Ethylbenzene	ND	0.500		µg/L	1	8/21/2024 6:03:36 PM
m,p-Xylene	ND	1.00		µg/L	1	8/21/2024 6:03:36 PM
o-Xylene	ND	0.500		µg/L	1	8/21/2024 6:03:36 PM
Surr: Dibromofluoromethane	107	82.4 - 122.4		%Rec	1	8/21/2024 6:03:36 PM
Surr: Toluene-d8	121	81.4 - 121.4		%Rec	1	8/21/2024 6:03:36 PM
Surr: 1-Bromo-4-fluorobenzene	110	80.1 - 120.1		%Rec	1	8/21/2024 6:03:36 PM



# Analytical Report

Work Order: 2408312  
Date Reported: 8/28/2024

**Client:** GeoEngineers

**Collection Date:** 8/20/2024 1:30:00 PM

**Project:** 701/709 South Jackson

**Lab ID:** 2408312-003

**Matrix:** Water

**Client Sample ID:** GEI-13\_082024

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b><u>Dissolved Metals by EPA 6020B</u></b>				Batch ID: 44939		Analyst: SLL
Lead	ND	0.300		µg/L	1	8/21/2024 3:13:00 PM
<b><u>Total Metals by EPA 6020B</u></b>				Batch ID: 44989		Analyst: ME
Lead	ND	0.300		µg/L	1	8/26/2024 5:36:00 PM



**Client:** GeoEngineers  
**Project:** 701/709 South Jackson  
**Lab ID:** 2408312-004  
**Client Sample ID:** Dup\_082024

**Collection Date:** 8/20/2024

**Matrix:** Water

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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**EDB by EPA 8011**

Batch ID: 44994 Analyst: CO

1,2-Dibromoethane (EDB)	ND	0.00911		µg/L	1	8/26/2024 2:44:04 PM
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**Diesel and Heavy Oil by NWTPH-Dx**

Batch ID: 44970 Analyst: AP

Diesel Range Organics	ND	92.8		µg/L	1	8/26/2024 5:46:30 PM
Heavy Oil	ND	139		µg/L	1	8/26/2024 5:46:30 PM
Total Petroleum Hydrocarbons	ND	232		µg/L	1	8/26/2024 5:46:30 PM
Surr: 2-Fluorobiphenyl	92.6	50 - 150		%Rec	1	8/26/2024 5:46:30 PM
Surr: o-Terphenyl	96.5	50 - 150		%Rec	1	8/26/2024 5:46:30 PM

**PAHs by EPA Method 8270E SIM**

Batch ID: 44929 Analyst: RG

Naphthalene	ND	0.0931		µg/L	1	8/22/2024 4:21:11 PM
2-Methylnaphthalene	ND	0.0931		µg/L	1	8/22/2024 4:21:11 PM
1-Methylnaphthalene	ND	0.0931		µg/L	1	8/22/2024 4:21:11 PM
Surr: 2-Fluorobiphenyl	89.2	43.2 - 131		%Rec	1	8/22/2024 4:21:11 PM
Surr: Terphenyl-d14	101	46.1 - 140		%Rec	1	8/22/2024 4:21:11 PM

**Gasoline by NWTPH-Gx**

Batch ID: 44956 Analyst: FG

Gasoline Range Organics	ND	100		µg/L	1	8/23/2024 2:58:10 PM
Surr: Toluene-d8	93.7	65 - 135		%Rec	1	8/23/2024 2:58:10 PM
Surr: 4-Bromofluorobenzene	91.6	65 - 135		%Rec	1	8/23/2024 2:58:10 PM

**Volatile Organic Compounds by EPA 8260D**

Batch ID: 44941 Analyst: KJ

Methyl tert-butyl ether (MTBE)	ND	0.500		µg/L	1	8/21/2024 6:36:44 PM
1,2-Dichloroethane (EDC)	ND	0.200		µg/L	1	8/21/2024 6:36:44 PM
Benzene	ND	0.200		µg/L	1	8/21/2024 6:36:44 PM
Toluene	ND	0.500		µg/L	1	8/21/2024 6:36:44 PM
Ethylbenzene	ND	0.500		µg/L	1	8/21/2024 6:36:44 PM
m,p-Xylene	ND	1.00		µg/L	1	8/21/2024 6:36:44 PM
o-Xylene	ND	0.500		µg/L	1	8/21/2024 6:36:44 PM
Surr: Dibromofluoromethane	103	82.4 - 122.4		%Rec	1	8/21/2024 6:36:44 PM
Surr: Toluene-d8	120	81.4 - 121.4		%Rec	1	8/21/2024 6:36:44 PM
Surr: 1-Bromo-4-fluorobenzene	108	80.1 - 120.1		%Rec	1	8/21/2024 6:36:44 PM



# Analytical Report

Work Order: 2408312  
 Date Reported: 8/28/2024

**Client:** GeoEngineers

**Collection Date:** 8/20/2024

**Project:** 701/709 South Jackson

**Lab ID:** 2408312-004

**Matrix:** Water

**Client Sample ID:** Dup\_082024

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b><u>Dissolved Metals by EPA 6020B</u></b>				Batch ID: 44939		Analyst: SLL
Lead	ND	0.300		µg/L	1	8/21/2024 3:15:00 PM
<b><u>Total Metals by EPA 6020B</u></b>				Batch ID: 44989		Analyst: ME
Lead	ND	0.300		µg/L	1	8/26/2024 5:38:00 PM

**Client:** GeoEngineers

**Collection Date:** 8/19/2024 12:00:00 PM

**Project:** 701/709 South Jackson

**Lab ID:** 2408312-005

**Matrix:** Water

**Client Sample ID:** Trip Blank

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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**Gasoline by NWTPH-Gx**

Batch ID: 44941      Analyst: KJ

Gasoline Range Organics	ND	50.0		µg/L	1	8/21/2024 11:25:30 AM
Surr: Toluene-d8	67.8	65 - 135		%Rec	1	8/21/2024 11:25:30 AM
Surr: 4-Bromofluorobenzene	99.0	65 - 135		%Rec	1	8/21/2024 11:25:30 AM

**Volatile Organic Compounds by EPA 8260D**

Batch ID: 44941      Analyst: KJ

Benzene	ND	0.200		µg/L	1	8/21/2024 11:25:30 AM
Toluene	ND	0.500		µg/L	1	8/21/2024 11:25:30 AM
Ethylbenzene	ND	0.500		µg/L	1	8/21/2024 11:25:30 AM
m,p-Xylene	ND	1.00		µg/L	1	8/21/2024 11:25:30 AM
o-Xylene	ND	0.500		µg/L	1	8/21/2024 11:25:30 AM
Surr: Dibromofluoromethane	104	82.4 - 122.4		%Rec	1	8/21/2024 11:25:30 AM
Surr: Toluene-d8	118	81.4 - 121.4		%Rec	1	8/21/2024 11:25:30 AM
Surr: 1-Bromo-4-fluorobenzene	105	80.1 - 120.1		%Rec	1	8/21/2024 11:25:30 AM

**Work Order:** 2408312  
**CLIENT:** GeoEngineers  
**Project:** 701/709 South Jackson

**QC SUMMARY REPORT**  
**Dissolved Metals by EPA 6020B**

Sample ID: <b>ICB</b>	SampType: <b>ICB</b>	Units: <b>µg/L</b>	Prep Date: <b>8/21/2024</b>	RunNo: <b>93809</b>							
Client ID: <b>ICB</b>	Batch ID: <b>44939</b>	Analysis Date: <b>8/21/2024</b>	SeqNo: <b>1959087</b>								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead ND 0.300

Sample ID: <b>ICV</b>	SampType: <b>ICV</b>	Units: <b>µg/L</b>	Prep Date: <b>8/21/2024</b>	RunNo: <b>93809</b>							
Client ID: <b>ICV</b>	Batch ID: <b>44939</b>	Analysis Date: <b>8/21/2024</b>	SeqNo: <b>1959088</b>								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead 48.4 0.300 50.00 0 96.9 90 110

Sample ID: <b>CCV-A</b>	SampType: <b>CCV</b>	Units: <b>µg/L</b>	Prep Date: <b>8/21/2024</b>	RunNo: <b>93809</b>							
Client ID: <b>CCV</b>	Batch ID: <b>44939</b>	Analysis Date: <b>8/21/2024</b>	SeqNo: <b>1959042</b>								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead 48.8 0.300 50.00 0 97.5 90 110

Sample ID: <b>CCB-A</b>	SampType: <b>CCB</b>	Units: <b>µg/L</b>	Prep Date: <b>8/21/2024</b>	RunNo: <b>93809</b>							
Client ID: <b>CCB</b>	Batch ID: <b>44939</b>	Analysis Date: <b>8/21/2024</b>	SeqNo: <b>1959043</b>								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead ND 0.300

Sample ID: <b>LCS-44939</b>	SampType: <b>LCS</b>	Units: <b>µg/L</b>	Prep Date: <b>8/21/2024</b>	RunNo: <b>93809</b>							
Client ID: <b>LCSW</b>	Batch ID: <b>44939</b>	Analysis Date: <b>8/21/2024</b>	SeqNo: <b>1959045</b>								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead 55.0 0.300 50.00 0 110 80 120

Work Order: 2408312  
 CLIENT: GeoEngineers  
 Project: 701/709 South Jackson

**QC SUMMARY REPORT**  
**Dissolved Metals by EPA 6020B**

Sample ID: <b>2408246-001CDUP</b>	SampType: <b>DUP</b>	Units: <b>µg/L</b>	Prep Date: <b>8/21/2024</b>	RunNo: <b>93809</b>							
Client ID: <b>BATCH</b>	Batch ID: <b>44939</b>	Analysis Date: <b>8/21/2024</b>	SeqNo: <b>1959047</b>								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.300						0		20	

Sample ID: <b>2408246-001CMS</b>	SampType: <b>MS</b>	Units: <b>µg/L</b>	Prep Date: <b>8/21/2024</b>	RunNo: <b>93809</b>							
Client ID: <b>BATCH</b>	Batch ID: <b>44939</b>	Analysis Date: <b>8/21/2024</b>	SeqNo: <b>1959048</b>								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	48.3	0.300	50.00	0.08800	96.4	75	125				

Sample ID: <b>CCV-B</b>	SampType: <b>CCV</b>	Units: <b>µg/L</b>	Prep Date: <b>8/21/2024</b>	RunNo: <b>93809</b>							
Client ID: <b>CCV</b>	Batch ID: <b>44939</b>	Analysis Date: <b>8/21/2024</b>	SeqNo: <b>1959052</b>								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	49.3	0.300	50.00	0	98.6	90	110				

Sample ID: <b>CCB-B</b>	SampType: <b>CCB</b>	Units: <b>µg/L</b>	Prep Date: <b>8/21/2024</b>	RunNo: <b>93809</b>							
Client ID: <b>CCB</b>	Batch ID: <b>44939</b>	Analysis Date: <b>8/21/2024</b>	SeqNo: <b>1959053</b>								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.300									

Sample ID: <b>CCV-C</b>	SampType: <b>CCV</b>	Units: <b>µg/L</b>	Prep Date: <b>8/21/2024</b>	RunNo: <b>93809</b>							
Client ID: <b>CCV</b>	Batch ID: <b>44939</b>	Analysis Date: <b>8/21/2024</b>	SeqNo: <b>1959064</b>								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	45.2	0.300	50.00	0	90.5	90	110				

Work Order: 2408312  
 CLIENT: GeoEngineers  
 Project: 701/709 South Jackson

**QC SUMMARY REPORT**  
**Dissolved Metals by EPA 6020B**

Sample ID: <b>CCB-C</b>	SampType: <b>CCB</b>	Units: <b>µg/L</b>	Prep Date: <b>8/21/2024</b>	RunNo: <b>93809</b>							
Client ID: <b>CCB</b>	Batch ID: <b>44939</b>	Analysis Date: <b>8/21/2024</b>	SeqNo: <b>1959065</b>								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead ND 0.300

Sample ID: <b>CCV-D</b>	SampType: <b>CCV</b>	Units: <b>µg/L</b>	Prep Date: <b>8/21/2024</b>	RunNo: <b>93809</b>							
Client ID: <b>CCV</b>	Batch ID: <b>44939</b>	Analysis Date: <b>8/21/2024</b>	SeqNo: <b>1959072</b>								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead 47.4 0.300 50.00 0 94.8 90 110

Sample ID: <b>CCB-D</b>	SampType: <b>CCB</b>	Units: <b>µg/L</b>	Prep Date: <b>8/21/2024</b>	RunNo: <b>93809</b>							
Client ID: <b>CCB</b>	Batch ID: <b>44939</b>	Analysis Date: <b>8/21/2024</b>	SeqNo: <b>1959073</b>								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead ND 0.300

Sample ID: <b>ICB</b>	SampType: <b>ICB</b>	Units: <b>µg/L</b>	Prep Date: <b>8/22/2024</b>	RunNo: <b>93809</b>							
Client ID: <b>ICB</b>	Batch ID: <b>44939</b>	Analysis Date: <b>8/22/2024</b>	SeqNo: <b>1959760</b>								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead ND 0.300

Sample ID: <b>ICV</b>	SampType: <b>ICV</b>	Units: <b>µg/L</b>	Prep Date: <b>8/22/2024</b>	RunNo: <b>93809</b>							
Client ID: <b>ICV</b>	Batch ID: <b>44939</b>	Analysis Date: <b>8/22/2024</b>	SeqNo: <b>1959761</b>								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead 47.2 0.300 50.00 0 94.3 90 110

Work Order: 2408312  
 CLIENT: GeoEngineers  
 Project: 701/709 South Jackson

**QC SUMMARY REPORT**  
**Dissolved Metals by EPA 6020B**

Sample ID: <b>CCV-A</b>	SampType: <b>CCV</b>	Units: <b>µg/L</b>	Prep Date: <b>8/22/2024</b>	RunNo: <b>93809</b>							
Client ID: <b>CCV</b>	Batch ID: <b>44939</b>	Analysis Date: <b>8/22/2024</b>	SeqNo: <b>1959763</b>								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	49.7	0.300	50.00	0	99.4	90	110				

Sample ID: <b>CCB-A</b>	SampType: <b>CCB</b>	Units: <b>µg/L</b>	Prep Date: <b>8/22/2024</b>	RunNo: <b>93809</b>							
Client ID: <b>CCB</b>	Batch ID: <b>44939</b>	Analysis Date: <b>8/22/2024</b>	SeqNo: <b>1959764</b>								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.300									

Sample ID: <b>MB-44939</b>	SampType: <b>MBLK</b>	Units: <b>µg/L</b>	Prep Date: <b>8/21/2024</b>	RunNo: <b>93809</b>							
Client ID: <b>MBLKW</b>	Batch ID: <b>44939</b>	Analysis Date: <b>8/22/2024</b>	SeqNo: <b>1959765</b>								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.300									

Sample ID: <b>CCV-B</b>	SampType: <b>CCV</b>	Units: <b>µg/L</b>	Prep Date: <b>8/22/2024</b>	RunNo: <b>93809</b>							
Client ID: <b>CCV</b>	Batch ID: <b>44939</b>	Analysis Date: <b>8/22/2024</b>	SeqNo: <b>1959767</b>								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	49.7	0.300	50.00	0	99.3	90	110				

Sample ID: <b>CCB-B</b>	SampType: <b>CCB</b>	Units: <b>µg/L</b>	Prep Date: <b>8/22/2024</b>	RunNo: <b>93809</b>							
Client ID: <b>CCB</b>	Batch ID: <b>44939</b>	Analysis Date: <b>8/22/2024</b>	SeqNo: <b>1959768</b>								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.300									

Work Order: 2408312  
 CLIENT: GeoEngineers  
 Project: 701/709 South Jackson

**QC SUMMARY REPORT**  
**Dissolved Metals by EPA 6020B**

Sample ID: <b>CCB-C</b>	SampType: <b>CCB</b>	Units: <b>µg/L</b>	Prep Date: <b>8/22/2024</b>	RunNo: <b>93809</b>							
Client ID: <b>CCB</b>	Batch ID: <b>44939</b>	Analysis Date: <b>8/22/2024</b>	SeqNo: <b>1959778</b>								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.300									

Sample ID: <b>CCV-C</b>	SampType: <b>CCV</b>	Units: <b>µg/L</b>	Prep Date: <b>8/22/2024</b>	RunNo: <b>93809</b>							
Client ID: <b>CCV</b>	Batch ID: <b>44939</b>	Analysis Date: <b>8/22/2024</b>	SeqNo: <b>1959779</b>								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	46.8	0.300	50.00	0	93.6	90	110				

Sample ID: <b>CCV-C</b>	SampType: <b>CCV</b>	Units: <b>µg/L</b>	Prep Date: <b>8/22/2024</b>	RunNo: <b>93809</b>							
Client ID: <b>CCV</b>	Batch ID: <b>44939</b>	Analysis Date: <b>8/22/2024</b>	SeqNo: <b>1959780</b>								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	46.9	0.300	50.00	0	93.9	90	110				

Sample ID: <b>2408247-002CMS</b>	SampType: <b>MS</b>	Units: <b>µg/L</b>	Prep Date: <b>8/21/2024</b>	RunNo: <b>93809</b>							
Client ID: <b>BATCH</b>	Batch ID: <b>44939</b>	Analysis Date: <b>8/22/2024</b>	SeqNo: <b>1959781</b>								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	42.2	0.300	50.00	0	84.5	75	125				

Sample ID: <b>2408247-002CMSD</b>	SampType: <b>MSD</b>	Units: <b>µg/L</b>	Prep Date: <b>8/21/2024</b>	RunNo: <b>93809</b>							
Client ID: <b>BATCH</b>	Batch ID: <b>44939</b>	Analysis Date: <b>8/22/2024</b>	SeqNo: <b>1959782</b>								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	40.5	0.300	50.00	0	81.0	75	125	42.24	4.20	20	



**Work Order:** 2408312  
**CLIENT:** GeoEngineers  
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**QC SUMMARY REPORT**  
**Dissolved Metals by EPA 6020B**

Sample ID: <b>CCV-D</b>		SampType: <b>CCV</b>			Units: <b>µg/L</b>		Prep Date: <b>8/22/2024</b>		RunNo: <b>93809</b>		
Client ID: <b>CCV</b>		Batch ID: <b>44939</b>					Analysis Date: <b>8/22/2024</b>		SeqNo: <b>1959785</b>		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	47.1	0.300	50.00	0	94.1	90	110				

Sample ID: <b>CCV-D</b>		SampType: <b>CCV</b>			Units: <b>µg/L</b>		Prep Date: <b>8/22/2024</b>		RunNo: <b>93809</b>		
Client ID: <b>CCV</b>		Batch ID: <b>44939</b>					Analysis Date: <b>8/22/2024</b>		SeqNo: <b>1959786</b>		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	47.8	0.300	50.00	0	95.6	90	110				

Sample ID: <b>CCB-D</b>		SampType: <b>CCB</b>			Units: <b>µg/L</b>		Prep Date: <b>8/22/2024</b>		RunNo: <b>93809</b>		
Client ID: <b>CCB</b>		Batch ID: <b>44939</b>					Analysis Date: <b>8/22/2024</b>		SeqNo: <b>1959788</b>		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.300									

Work Order: 2408312  
 CLIENT: GeoEngineers  
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**QC SUMMARY REPORT**  
**Total Metals by EPA 6020B**

Sample ID: <b>ICB</b>	SampType: <b>ICB</b>	Units: <b>µg/L</b>	Prep Date: <b>8/26/2024</b>	RunNo: <b>93902</b>							
Client ID: <b>ICB</b>	Batch ID: <b>44989</b>	Analysis Date: <b>8/26/2024</b>	SeqNo: <b>1961343</b>								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead ND 0.300

Sample ID: <b>ICV</b>	SampType: <b>ICV</b>	Units: <b>µg/L</b>	Prep Date: <b>8/26/2024</b>	RunNo: <b>93902</b>							
Client ID: <b>ICV</b>	Batch ID: <b>44989</b>	Analysis Date: <b>8/26/2024</b>	SeqNo: <b>1961344</b>								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead 47.5 0.300 50.00 0 95.0 90 110

Sample ID: <b>CCV-A</b>	SampType: <b>CCV</b>	Units: <b>µg/L</b>	Prep Date: <b>8/26/2024</b>	RunNo: <b>93902</b>							
Client ID: <b>CCV</b>	Batch ID: <b>44989</b>	Analysis Date: <b>8/26/2024</b>	SeqNo: <b>1961346</b>								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead 47.6 0.300 50.00 0 95.2 90 110

Sample ID: <b>CCB-A</b>	SampType: <b>CCB</b>	Units: <b>µg/L</b>	Prep Date: <b>8/26/2024</b>	RunNo: <b>93902</b>							
Client ID: <b>CCB</b>	Batch ID: <b>44989</b>	Analysis Date: <b>8/26/2024</b>	SeqNo: <b>1961347</b>								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead ND 0.300

Sample ID: <b>LCS-44989</b>	SampType: <b>LCS</b>	Units: <b>µg/L</b>	Prep Date: <b>8/26/2024</b>	RunNo: <b>93902</b>							
Client ID: <b>LCSW</b>	Batch ID: <b>44989</b>	Analysis Date: <b>8/26/2024</b>	SeqNo: <b>1961349</b>								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead 48.2 0.300 50.00 0 96.5 80 120

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 CLIENT: GeoEngineers  
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**QC SUMMARY REPORT**  
**Total Metals by EPA 6020B**

Sample ID: <b>2408401-001ADUP</b>	SampType: <b>DUP</b>	Units: <b>µg/L</b>	Prep Date: <b>8/26/2024</b>	RunNo: <b>93902</b>							
Client ID: <b>BATCH</b>	Batch ID: <b>44989</b>	Analysis Date: <b>8/26/2024</b>	SeqNo: <b>1961351</b>								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	18.2	0.300						18.53	1.96	20	

Sample ID: <b>CCV-B</b>	SampType: <b>CCV</b>	Units: <b>µg/L</b>	Prep Date: <b>8/26/2024</b>	RunNo: <b>93902</b>							
Client ID: <b>CCV</b>	Batch ID: <b>44989</b>	Analysis Date: <b>8/26/2024</b>	SeqNo: <b>1961358</b>								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	48.5	0.300	50.00	0	97.1	90	110				

Sample ID: <b>CCB-B</b>	SampType: <b>CCB</b>	Units: <b>µg/L</b>	Prep Date: <b>8/26/2024</b>	RunNo: <b>93902</b>							
Client ID: <b>CCB</b>	Batch ID: <b>44989</b>	Analysis Date: <b>8/26/2024</b>	SeqNo: <b>1961359</b>								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.300									

Sample ID: <b>2408401-001AMS</b>	SampType: <b>MS</b>	Units: <b>µg/L</b>	Prep Date: <b>8/26/2024</b>	RunNo: <b>93902</b>							
Client ID: <b>BATCH</b>	Batch ID: <b>44989</b>	Analysis Date: <b>8/26/2024</b>	SeqNo: <b>1961428</b>								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	63.2	3.00	50.00	19.25	87.9	75	125				D

Sample ID: <b>2408401-001AMSD</b>	SampType: <b>MSD</b>	Units: <b>µg/L</b>	Prep Date: <b>8/26/2024</b>	RunNo: <b>93902</b>							
Client ID: <b>BATCH</b>	Batch ID: <b>44989</b>	Analysis Date: <b>8/26/2024</b>	SeqNo: <b>1961429</b>								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	66.1	3.00	50.00	19.25	93.7	75	125	63.18	4.48	20	D

Work Order: 2408312  
 CLIENT: GeoEngineers  
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**QC SUMMARY REPORT**  
**Total Metals by EPA 6020B**

Sample ID: <b>CCV-C</b>	SampType: <b>CCV</b>	Units: <b>µg/L</b>	Prep Date: <b>8/26/2024</b>	RunNo: <b>93902</b>							
Client ID: <b>CCV</b>	Batch ID: <b>44989</b>	Analysis Date: <b>8/26/2024</b>	SeqNo: <b>1961432</b>								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	48.5	0.300	50.00	0	97.0	90	110				

Sample ID: <b>CCB-C</b>	SampType: <b>CCB</b>	Units: <b>µg/L</b>	Prep Date: <b>8/26/2024</b>	RunNo: <b>93902</b>							
Client ID: <b>CCB</b>	Batch ID: <b>44989</b>	Analysis Date: <b>8/26/2024</b>	SeqNo: <b>1961433</b>								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.300									

Sample ID: <b>CCV-D</b>	SampType: <b>CCV</b>	Units: <b>µg/L</b>	Prep Date: <b>8/26/2024</b>	RunNo: <b>93902</b>							
Client ID: <b>CCV</b>	Batch ID: <b>44989</b>	Analysis Date: <b>8/26/2024</b>	SeqNo: <b>1961447</b>								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	48.4	0.300	50.00	0	96.7	90	110				

Sample ID: <b>CCB-D</b>	SampType: <b>CCB</b>	Units: <b>µg/L</b>	Prep Date: <b>8/26/2024</b>	RunNo: <b>93902</b>							
Client ID: <b>CCB</b>	Batch ID: <b>44989</b>	Analysis Date: <b>8/26/2024</b>	SeqNo: <b>1961448</b>								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.300									

Sample ID: <b>CCV-F</b>	SampType: <b>CCV</b>	Units: <b>µg/L</b>	Prep Date: <b>8/26/2024</b>	RunNo: <b>93902</b>							
Client ID: <b>CCV</b>	Batch ID: <b>44989</b>	Analysis Date: <b>8/26/2024</b>	SeqNo: <b>1961623</b>								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	47.2	0.300	50.00	0	94.3	90	110				

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**QC SUMMARY REPORT**  
**Total Metals by EPA 6020B**

Sample ID: <b>CCB-F</b>	SampType: <b>CCB</b>	Units: <b>µg/L</b>	Prep Date: <b>8/26/2024</b>	RunNo: <b>93902</b>							
Client ID: <b>CCB</b>	Batch ID: <b>44989</b>	Analysis Date: <b>8/26/2024</b>	SeqNo: <b>1961624</b>								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead ND 0.300

Sample ID: <b>CCV-G</b>	SampType: <b>CCV</b>	Units: <b>µg/L</b>	Prep Date: <b>8/26/2024</b>	RunNo: <b>93902</b>							
Client ID: <b>CCV</b>	Batch ID: <b>44989</b>	Analysis Date: <b>8/26/2024</b>	SeqNo: <b>1961627</b>								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead 47.1 0.300 50.00 0 94.2 90 110

Sample ID: <b>CCB-G</b>	SampType: <b>CCB</b>	Units: <b>µg/L</b>	Prep Date: <b>8/26/2024</b>	RunNo: <b>93902</b>							
Client ID: <b>CCB</b>	Batch ID: <b>44989</b>	Analysis Date: <b>8/26/2024</b>	SeqNo: <b>1961628</b>								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead ND 0.300

Sample ID: <b>ICB</b>	SampType: <b>ICB</b>	Units: <b>µg/L</b>	Prep Date: <b>8/27/2024</b>	RunNo: <b>93902</b>							
Client ID: <b>ICB</b>	Batch ID: <b>44989</b>	Analysis Date: <b>8/27/2024</b>	SeqNo: <b>1961936</b>								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead ND 0.300

Sample ID: <b>ICV</b>	SampType: <b>ICV</b>	Units: <b>µg/L</b>	Prep Date: <b>8/27/2024</b>	RunNo: <b>93902</b>							
Client ID: <b>ICV</b>	Batch ID: <b>44989</b>	Analysis Date: <b>8/27/2024</b>	SeqNo: <b>1961937</b>								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead 48.7 0.300 50.00 0 97.3 90 110

Work Order: 2408312  
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**QC SUMMARY REPORT**  
**Total Metals by EPA 6020B**

Sample ID: <b>CCV-A</b>	SampType: <b>CCV</b>	Units: <b>µg/L</b>	Prep Date: <b>8/27/2024</b>	RunNo: <b>93902</b>							
Client ID: <b>CCV</b>	Batch ID: <b>44989</b>	Analysis Date: <b>8/27/2024</b>	SeqNo: <b>1961926</b>								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	50.0	0.300	50.00	0	100	90	110				

Sample ID: <b>CCB-A</b>	SampType: <b>CCB</b>	Units: <b>µg/L</b>	Prep Date: <b>8/27/2024</b>	RunNo: <b>93902</b>							
Client ID: <b>CCB</b>	Batch ID: <b>44989</b>	Analysis Date: <b>8/27/2024</b>	SeqNo: <b>1961927</b>								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.300									

Sample ID: <b>MB-44989</b>	SampType: <b>MBLK</b>	Units: <b>µg/L</b>	Prep Date: <b>8/26/2024</b>	RunNo: <b>93902</b>							
Client ID: <b>MBLKW</b>	Batch ID: <b>44989</b>	Analysis Date: <b>8/27/2024</b>	SeqNo: <b>1961939</b>								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.300									

Sample ID: <b>CCV-B</b>	SampType: <b>CCV</b>	Units: <b>µg/L</b>	Prep Date: <b>8/27/2024</b>	RunNo: <b>93902</b>							
Client ID: <b>CCV</b>	Batch ID: <b>44989</b>	Analysis Date: <b>8/27/2024</b>	SeqNo: <b>1961942</b>								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	50.4	0.300	50.00	0	101	90	110				

Sample ID: <b>CCB-B</b>	SampType: <b>CCB</b>	Units: <b>µg/L</b>	Prep Date: <b>8/27/2024</b>	RunNo: <b>93902</b>							
Client ID: <b>CCB</b>	Batch ID: <b>44989</b>	Analysis Date: <b>8/27/2024</b>	SeqNo: <b>1961943</b>								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.300									

Work Order: 2408312  
 CLIENT: GeoEngineers  
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**QC SUMMARY REPORT**  
**Total Metals by EPA 6020B**

Sample ID: <b>CCV-C</b>	SampType: <b>CCV</b>	Units: <b>µg/L</b>	Prep Date: <b>8/27/2024</b>	RunNo: <b>93902</b>							
Client ID: <b>CCV</b>	Batch ID: <b>44989</b>	Analysis Date: <b>8/27/2024</b>	SeqNo: <b>1961947</b>								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	51.2	0.300	50.00	0	102	90	110				

Sample ID: <b>CCB-C</b>	SampType: <b>CCB</b>	Units: <b>µg/L</b>	Prep Date: <b>8/27/2024</b>	RunNo: <b>93902</b>							
Client ID: <b>CCB</b>	Batch ID: <b>44989</b>	Analysis Date: <b>8/27/2024</b>	SeqNo: <b>1961948</b>								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.300									

Sample ID: <b>CCV-D</b>	SampType: <b>CCV</b>	Units: <b>µg/L</b>	Prep Date: <b>8/27/2024</b>	RunNo: <b>93902</b>							
Client ID: <b>CCV</b>	Batch ID: <b>44989</b>	Analysis Date: <b>8/27/2024</b>	SeqNo: <b>1961998</b>								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	51.1	0.300	50.00	0	102	90	110				

Sample ID: <b>CCB-D</b>	SampType: <b>CCB</b>	Units: <b>µg/L</b>	Prep Date: <b>8/27/2024</b>	RunNo: <b>93902</b>							
Client ID: <b>CCB</b>	Batch ID: <b>44989</b>	Analysis Date: <b>8/27/2024</b>	SeqNo: <b>1961999</b>								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.300									

Work Order: 2408312  
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**QC SUMMARY REPORT**  
**EDB by EPA 8011**

Sample ID: <b>ICV</b>	SampType: <b>ICV</b>	Units: <b>µg/L</b>	Prep Date: <b>4/13/2022</b>	RunNo: <b>93892</b>							
Client ID: <b>ICV</b>	Batch ID: <b>44994</b>		Analysis Date: <b>8/23/2024</b>	SeqNo: <b>1961110</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2-Dibromoethane (EDB)	0.997	0.0100	1.000	0	99.7	80	120				

Sample ID: <b>ICB</b>	SampType: <b>ICB</b>	Units: <b>µg/L</b>	Prep Date: <b>8/23/2024</b>	RunNo: <b>93892</b>							
Client ID: <b>ICB</b>	Batch ID: <b>44994</b>		Analysis Date: <b>8/23/2024</b>	SeqNo: <b>1961111</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2-Dibromoethane (EDB)	ND	0.0100									

Sample ID: <b>8011-CCV-44994A</b>	SampType: <b>CCV</b>	Units: <b>µg/L</b>	Prep Date: <b>8/26/2024</b>	RunNo: <b>93915</b>							
Client ID: <b>CCV</b>	Batch ID: <b>44994</b>		Analysis Date: <b>8/26/2024</b>	SeqNo: <b>1961500</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2-Dibromoethane (EDB)	0.947	0.0100	1.000	0	94.7	80	120				

Sample ID: <b>MB-44994</b>	SampType: <b>MBLK</b>	Units: <b>µg/L</b>	Prep Date: <b>8/26/2024</b>	RunNo: <b>93915</b>							
Client ID: <b>MBLKW</b>	Batch ID: <b>44994</b>		Analysis Date: <b>8/26/2024</b>	SeqNo: <b>1961490</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2-Dibromoethane (EDB)	ND	0.0100									

Sample ID: <b>LCS-44994</b>	SampType: <b>LCS</b>	Units: <b>µg/L</b>	Prep Date: <b>8/26/2024</b>	RunNo: <b>93915</b>							
Client ID: <b>LCSW</b>	Batch ID: <b>44994</b>		Analysis Date: <b>8/26/2024</b>	SeqNo: <b>1961491</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2-Dibromoethane (EDB)	0.246	0.00996	0.2489	0	99.0	67.6	150				



**Work Order:** 2408312  
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**Project:** 701/709 South Jackson

**QC SUMMARY REPORT**  
**EDB by EPA 8011**

Sample ID: <b>LCSD-44994</b>		SampType: <b>LCSD</b>		Units: <b>µg/L</b>		Prep Date: <b>8/26/2024</b>		RunNo: <b>93915</b>			
Client ID: <b>LCSW02</b>		Batch ID: <b>44994</b>				Analysis Date: <b>8/26/2024</b>		SeqNo: <b>1961492</b>			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2-Dibromoethane (EDB)	0.259	0.00997	0.2494	0	104	67.6	150	0.2463	4.93	20	

Sample ID: <b>8011-CCV-44994B</b>		SampType: <b>CCV</b>		Units: <b>µg/L</b>		Prep Date: <b>8/26/2024</b>		RunNo: <b>93915</b>			
Client ID: <b>CCV</b>		Batch ID: <b>44994</b>				Analysis Date: <b>8/26/2024</b>		SeqNo: <b>1961499</b>			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2-Dibromoethane (EDB)	0.953	0.0100	1.000	0	95.3	80	120				

**Work Order:** 2408312  
**CLIENT:** GeoEngineers  
**Project:** 701/709 South Jackson

**QC SUMMARY REPORT**  
**Diesel and Heavy Oil by NWTPH-Dx**

Sample ID: <b>HO ICB</b>	SampType: <b>ICB</b>	Units: <b>mg/Kg</b>				Prep Date: <b>4/9/2024</b>	RunNo: <b>90866</b>				
Client ID: <b>ICB</b>	Batch ID: <b>44970</b>					Analysis Date: <b>4/9/2024</b>	SeqNo: <b>1894779</b>				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Heavy Oil	ND	100									
Surr: 2-Fluorobiphenyl	10.3		10.00		103	50	150				
Surr: o-Terphenyl	10.3		10.00		103	50	150				

Sample ID: <b>HO ICV</b>	SampType: <b>ICV</b>	Units: <b>mg/Kg</b>				Prep Date: <b>4/9/2024</b>	RunNo: <b>90866</b>				
Client ID: <b>ICV</b>	Batch ID: <b>44970</b>					Analysis Date: <b>4/9/2024</b>	SeqNo: <b>1894787</b>				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Heavy Oil	584	100	500.0	0	117	70	130				
Surr: 2-Fluorobiphenyl	9.88		10.00		98.8	50	150				
Surr: o-Terphenyl	9.93		10.00		99.3	50	150				

Sample ID: <b>DX ICB</b>	SampType: <b>ICB</b>	Units: <b>mg/Kg</b>				Prep Date: <b>4/9/2024</b>	RunNo: <b>90866</b>				
Client ID: <b>ICB</b>	Batch ID: <b>44970</b>					Analysis Date: <b>4/9/2024</b>	SeqNo: <b>1894788</b>				
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	9.97		10.00		99.7	50	150				
Surr: o-Terphenyl	10.6		10.00		106	50	150				

Sample ID: <b>DX ICV</b>	SampType: <b>ICV</b>	Units: <b>mg/Kg</b>				Prep Date: <b>4/9/2024</b>	RunNo: <b>90866</b>				
Client ID: <b>ICV</b>	Batch ID: <b>44970</b>					Analysis Date: <b>4/9/2024</b>	SeqNo: <b>1894796</b>				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel Range Organics	478	50.0	500.0	0	95.6	70	130				
Surr: 2-Fluorobiphenyl	9.42		10.00		94.2	50	150				
Surr: o-Terphenyl	11.6		10.00		116	50	150				

Work Order: 2408312  
 CLIENT: GeoEngineers  
 Project: 701/709 South Jackson

**QC SUMMARY REPORT**  
**Diesel and Heavy Oil by NWTPH-Dx**

Sample ID: <b>OIL-CCV-44970A</b>	SampType: <b>CCV</b>	Units: <b>µg/L</b>				Prep Date: <b>8/26/2024</b>	RunNo: <b>93895</b>				
Client ID: <b>CCV</b>	Batch ID: <b>44970</b>					Analysis Date: <b>8/26/2024</b>	SeqNo: <b>1961199</b>				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Heavy Oil	439	150	500.0	0	87.7	85	115				
Surr: 2-Fluorobiphenyl	9.18		10.00		91.8	50	150				
Surr: o-Terphenyl	9.04		10.00		90.4	50	150				

Sample ID: <b>DX-CCV-44970A</b>	SampType: <b>CCV</b>	Units: <b>µg/L</b>				Prep Date: <b>8/26/2024</b>	RunNo: <b>93895</b>				
Client ID: <b>CCV</b>	Batch ID: <b>44970</b>					Analysis Date: <b>8/26/2024</b>	SeqNo: <b>1961200</b>				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel Range Organics	461	100	500.0	0	92.3	85	115				
Surr: 2-Fluorobiphenyl	8.71		10.00		87.1	50	150				
Surr: o-Terphenyl	10.3		10.00		103	50	150				

Sample ID: <b>MB-44970</b>	SampType: <b>MBLK</b>	Units: <b>µg/L</b>				Prep Date: <b>8/23/2024</b>	RunNo: <b>93895</b>				
Client ID: <b>MBLKW</b>	Batch ID: <b>44970</b>					Analysis Date: <b>8/26/2024</b>	SeqNo: <b>1961201</b>				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel Range Organics	ND	94.1									
Heavy Oil	ND	141									
Total Petroleum Hydrocarbons	ND	235									
Surr: 2-Fluorobiphenyl	18.6		23.53		79.0	50	150				
Surr: o-Terphenyl	18.9		23.53		80.5	50	150				

Sample ID: <b>LCS-44970</b>	SampType: <b>LCS</b>	Units: <b>µg/L</b>				Prep Date: <b>8/23/2024</b>	RunNo: <b>93895</b>				
Client ID: <b>LCSW</b>	Batch ID: <b>44970</b>					Analysis Date: <b>8/26/2024</b>	SeqNo: <b>1961202</b>				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Petroleum Hydrocarbons	756	232	1,162	0	65.1	42.5	123				
Surr: 2-Fluorobiphenyl	17.3		23.23		74.3	50	150				
Surr: o-Terphenyl	21.8		23.23		93.8	50	150				

Work Order: 2408312  
 CLIENT: GeoEngineers  
 Project: 701/709 South Jackson

**QC SUMMARY REPORT**  
**Diesel and Heavy Oil by NWTPH-Dx**

Sample ID: <b>LCS-D-44970</b>	SampType: <b>LCS-D</b>	Units: <b>µg/L</b>				Prep Date: <b>8/23/2024</b>	RunNo: <b>93895</b>				
Client ID: <b>LCSW02</b>	Batch ID: <b>44970</b>					Analysis Date: <b>8/26/2024</b>	SeqNo: <b>1961203</b>				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Petroleum Hydrocarbons	770	233	1,167	0	66.0	42.5	123	755.9	1.87	30	
Surr: 2-Fluorobiphenyl	17.8		23.34		76.3	50	150		0		
Surr: o-Terphenyl	21.4		23.34		91.9	50	150		0		

Sample ID: <b>OIL-CCV-44970B</b>	SampType: <b>CCV</b>	Units: <b>µg/L</b>				Prep Date: <b>8/26/2024</b>	RunNo: <b>93895</b>				
Client ID: <b>CCV</b>	Batch ID: <b>44970</b>					Analysis Date: <b>8/26/2024</b>	SeqNo: <b>1961205</b>				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Heavy Oil	572	150	500.0	0	114	85	115				
Surr: 2-Fluorobiphenyl	11.0		10.00		110	50	150				
Surr: o-Terphenyl	11.0		10.00		110	50	150				

Sample ID: <b>DX-CCV-44970B</b>	SampType: <b>CCV</b>	Units: <b>µg/L</b>				Prep Date: <b>8/26/2024</b>	RunNo: <b>93895</b>				
Client ID: <b>CCV</b>	Batch ID: <b>44970</b>					Analysis Date: <b>8/26/2024</b>	SeqNo: <b>1961206</b>				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel Range Organics	467	100	500.0	0	93.5	85	115				
Surr: 2-Fluorobiphenyl	8.67		10.00		86.7	50	150				
Surr: o-Terphenyl	10.4		10.00		104	50	150				

Sample ID: <b>OIL-CCV-44970C</b>	SampType: <b>CCV</b>	Units: <b>µg/L</b>				Prep Date: <b>8/26/2024</b>	RunNo: <b>93895</b>				
Client ID: <b>CCV</b>	Batch ID: <b>44970</b>					Analysis Date: <b>8/26/2024</b>	SeqNo: <b>1961569</b>				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Heavy Oil	482	150	500.0	0	96.4	85	115				
Surr: 2-Fluorobiphenyl	9.01		10.00		90.1	50	150				
Surr: o-Terphenyl	8.95		10.00		89.5	50	150				

**Work Order:** 2408312  
**CLIENT:** GeoEngineers  
**Project:** 701/709 South Jackson

**QC SUMMARY REPORT**  
**Diesel and Heavy Oil by NWTPH-Dx**

Sample ID: <b>DX-CCV-44970C</b>	SampType: <b>CCV</b>	Units: <b>µg/L</b>	Prep Date: <b>8/26/2024</b>	RunNo: <b>93895</b>							
Client ID: <b>CCV</b>	Batch ID: <b>44970</b>		Analysis Date: <b>8/26/2024</b>	SeqNo: <b>1961570</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Diesel Range Organics	475	100	500.0	0	95.0	85	115				
Surr: 2-Fluorobiphenyl	8.39		10.00		83.9	50	150				
Surr: o-Terphenyl	10.3		10.00		103	50	150				

Work Order: 2408312  
 CLIENT: GeoEngineers  
 Project: 701/709 South Jackson

**QC SUMMARY REPORT**  
**PAHs by EPA Method 8270E SIM**

Sample ID: <b>PAH ICB</b>	SampType: <b>ICB</b>	Units: <b>µg/L</b>			Prep Date: <b>7/25/2024</b>	RunNo: <b>93268</b>					
Client ID: <b>ICB</b>	Batch ID: <b>44929</b>				Analysis Date: <b>7/25/2024</b>	SeqNo: <b>1946821</b>					
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	527		500.0		105	50.4	142				
Surr: Terphenyl-d14 (surr)	564		500.0		113	48.8	157				

Sample ID: <b>PAH ICV</b>	SampType: <b>ICV</b>	Units: <b>µg/L</b>			Prep Date: <b>7/25/2024</b>	RunNo: <b>93268</b>					
Client ID: <b>ICV</b>	Batch ID: <b>44929</b>				Analysis Date: <b>7/25/2024</b>	SeqNo: <b>1946822</b>					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Naphthalene	939	20.0	1,000	0	93.9	70	130				
2-Methylnaphthalene	952	20.0	1,000	0	95.2	70	130				
1-Methylnaphthalene	934	20.0	1,000	0	93.4	70	130				
Surr: 2-Fluorobiphenyl	471		500.0		94.3	60.9	160				
Surr: Terphenyl-d14 (surr)	521		500.0		104	62.2	159				

Sample ID: <b>CCV-44929A</b>	SampType: <b>CCV</b>	Units: <b>µg/L</b>			Prep Date: <b>8/21/2024</b>	RunNo: <b>93851</b>					
Client ID: <b>CCV</b>	Batch ID: <b>44929</b>				Analysis Date: <b>8/21/2024</b>	SeqNo: <b>1960082</b>					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Naphthalene	931	0.100	1,000	0	93.1	80	120				
2-Methylnaphthalene	922	0.100	1,000	0	92.2	80	120				
1-Methylnaphthalene	927	0.100	1,000	0	92.7	80	120				
Surr: 2-Fluorobiphenyl	474		500.0		94.7	70.2	145				
Surr: Terphenyl-d14	516		500.0		103	71.3	142				

**Work Order:** 2408312  
**CLIENT:** GeoEngineers  
**Project:** 701/709 South Jackson

**QC SUMMARY REPORT**  
**PAHs by EPA Method 8270E SIM**

Sample ID: <b>MB-44929</b>	SampType: <b>MBLK</b>	Units: <b>µg/L</b>	Prep Date: <b>8/20/2024</b>	RunNo: <b>93851</b>							
Client ID: <b>MBLKW</b>	Batch ID: <b>44929</b>		Analysis Date: <b>8/21/2024</b>	SeqNo: <b>1960083</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Naphthalene	ND	0.0944									
2-Methylnaphthalene	ND	0.0944									
1-Methylnaphthalene	ND	0.0944									
Surr: 2-Fluorobiphenyl	2.09		2.360		88.4	12.8	129				
Surr: Terphenyl-d14	2.26		2.360		95.9	12.7	150				

Sample ID: <b>LCS-44929</b>	SampType: <b>LCS</b>	Units: <b>µg/L</b>	Prep Date: <b>8/20/2024</b>	RunNo: <b>93851</b>							
Client ID: <b>LCSW</b>	Batch ID: <b>44929</b>		Analysis Date: <b>8/21/2024</b>	SeqNo: <b>1960084</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Naphthalene	0.161	0.0941	0.2352	0	68.3	42.2	95.7				
2-Methylnaphthalene	0.150	0.0941	0.2352	0	63.8	40.9	100				
1-Methylnaphthalene	0.161	0.0941	0.2352	0	68.4	40.4	102				
Surr: 2-Fluorobiphenyl	0.0820		0.1176		69.8	43.2	131				
Surr: Terphenyl-d14	0.0984		0.1176		83.6	46.1	140				

Sample ID: <b>LCS-44929</b>	SampType: <b>LCS</b>	Units: <b>µg/L</b>	Prep Date: <b>8/20/2024</b>	RunNo: <b>93851</b>							
Client ID: <b>LCSW02</b>	Batch ID: <b>44929</b>		Analysis Date: <b>8/21/2024</b>	SeqNo: <b>1960085</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Naphthalene	0.172	0.0936	0.2340	0	73.4	42.2	95.7	0.1606	6.68	30	
2-Methylnaphthalene	0.163	0.0936	0.2340	0	69.6	40.9	100	0.1502	8.09	30	
1-Methylnaphthalene	0.171	0.0936	0.2340	0	72.9	40.4	102	0.1608	5.90	30	
Surr: 2-Fluorobiphenyl	0.0887		0.1170		75.8	43.2	131		0		
Surr: Terphenyl-d14	0.102		0.1170		86.8	46.1	140		0		

**Work Order:** 2408312  
**CLIENT:** GeoEngineers  
**Project:** 701/709 South Jackson

**QC SUMMARY REPORT**  
**PAHs by EPA Method 8270E SIM**

Sample ID: <b>CCV-44929B</b>	SampType: <b>CCV</b>	Units: <b>µg/L</b>	Prep Date: <b>8/22/2024</b>	RunNo: <b>93851</b>							
Client ID: <b>CCV</b>	Batch ID: <b>44929</b>		Analysis Date: <b>8/22/2024</b>	SeqNo: <b>1960087</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Naphthalene	869	0.100	1,000	0	86.9	80	120				
2-Methylnaphthalene	816	0.100	1,000	0	81.6	80	120				
1-Methylnaphthalene	836	0.100	1,000	0	83.6	80	120				
Surr: 2-Fluorobiphenyl	385		500.0		76.9	70.2	145				
Surr: Terphenyl-d14	414		500.0		82.8	71.3	142				



**Work Order:** 2408312  
**CLIENT:** GeoEngineers  
**Project:** 701/709 South Jackson

**QC SUMMARY REPORT**  
**Gasoline by NWTPH-Gx**

Sample ID: <b>ICB</b>	SampType: <b>ICB</b>	Units: <b>µg/L</b>				Prep Date: <b>8/22/2024</b>	RunNo: <b>93890</b>				
Client ID: <b>ICB</b>	Batch ID: <b>44941</b>					Analysis Date: <b>8/22/2024</b>	SeqNo: <b>1961048</b>				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics	60.5	50.0									
Surr: Toluene-d8	23.5		25.00		94.1	65	135				
Surr: 4-Bromofluorobenzene	23.3		25.00		93.4	65	135				

Sample ID: <b>ICV</b>	SampType: <b>ICV</b>	Units: <b>µg/L</b>				Prep Date: <b>8/22/2024</b>	RunNo: <b>93890</b>				
Client ID: <b>ICV</b>	Batch ID: <b>44941</b>					Analysis Date: <b>8/22/2024</b>	SeqNo: <b>1961049</b>				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics	467	50.0	500.0	0	93.4	80	120				
Surr: Toluene-d8	23.9		25.00		95.6	65	135				
Surr: 4-Bromofluorobenzene	24.0		25.00		96.1	65	135				

Sample ID: <b>GX-CCV-A</b>	SampType: <b>CCV</b>	Units: <b>µg/L</b>				Prep Date: <b>8/23/2024</b>	RunNo: <b>93932</b>				
Client ID: <b>CCV</b>	Batch ID: <b>44956</b>					Analysis Date: <b>8/23/2024</b>	SeqNo: <b>1961832</b>				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics	524	50.0	500.0	0	105	80	120				
Surr: Toluene-d8	24.2		25.00		96.9	65	135				
Surr: 4-Bromofluorobenzene	24.5		25.00		97.8	65	135				

Sample ID: <b>LCS-44956</b>	SampType: <b>LCS</b>	Units: <b>µg/L</b>				Prep Date: <b>8/22/2024</b>	RunNo: <b>93932</b>				
Client ID: <b>LCSW</b>	Batch ID: <b>44956</b>					Analysis Date: <b>8/23/2024</b>	SeqNo: <b>1961841</b>				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics	524	100	500.0	0	105	65	135				
Surr: Toluene-d8	24.2		25.00		96.9	65	135				
Surr: 4-Bromofluorobenzene	24.5		25.00		97.8	65	135				

**Work Order:** 2408312  
**CLIENT:** GeoEngineers  
**Project:** 701/709 South Jackson

**QC SUMMARY REPORT**  
**Gasoline by NWTPH-Gx**

Sample ID: <b>MB-44956</b>	SampType: <b>MBLK</b>	Units: <b>µg/L</b>			Prep Date: <b>8/22/2024</b>	RunNo: <b>93932</b>					
Client ID: <b>MBLKW</b>	Batch ID: <b>44956</b>				Analysis Date: <b>8/23/2024</b>	SeqNo: <b>1961833</b>					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics	ND	100									
Surr: Toluene-d8	23.6		25.00		94.5	65	135				
Surr: 4-Bromofluorobenzene	22.8		25.00		91.1	65	135				

Sample ID: <b>GX-CCV-B</b>	SampType: <b>CCV</b>	Units: <b>µg/L</b>			Prep Date: <b>8/23/2024</b>	RunNo: <b>93932</b>					
Client ID: <b>CCV</b>	Batch ID: <b>44956</b>				Analysis Date: <b>8/23/2024</b>	SeqNo: <b>1961840</b>					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics	487	50.0	500.0	0	97.4	80	120				
Surr: Toluene-d8	24.4		25.00		97.7	65	135				
Surr: 4-Bromofluorobenzene	24.6		25.00		98.5	65	135				

Work Order: 2408312  
 CLIENT: GeoEngineers  
 Project: 701/709 South Jackson

**QC SUMMARY REPORT**  
**Volatile Organic Compounds by EPA 8260D**

Sample ID: <b>ICB</b>	SampType: <b>ICB</b>	Units: <b>µg/L</b>			Prep Date: <b>8/17/2024</b>	RunNo: <b>93722</b>					
Client ID: <b>ICB</b>	Batch ID: <b>44941</b>				Analysis Date: <b>8/17/2024</b>	SeqNo: <b>1957307</b>					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	ND	0.0250									
1,2-Dichloroethane (EDC)	0.0284	0.0250									
Benzene	ND	0.0120									
Toluene	ND	0.0250									
Ethylbenzene	ND	0.0250									
m,p-Xylene	ND	0.0500									
o-Xylene	ND	0.0250									
Surr: Dibromofluoromethane	25.1		25.00		100	80	120				
Surr: Toluene-d8	25.5		25.00		102	80	120				
Surr: 1-Bromo-4-fluorobenzene	26.2		25.00		105	80	120				

Sample ID: <b>ICV</b>	SampType: <b>ICV</b>	Units: <b>µg/L</b>			Prep Date: <b>8/17/2024</b>	RunNo: <b>93722</b>					
Client ID: <b>ICV</b>	Batch ID: <b>44941</b>				Analysis Date: <b>8/17/2024</b>	SeqNo: <b>1957308</b>					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	19.6	0.0250	20.00	0	98.2	70	130				
1,2-Dichloroethane (EDC)	21.4	0.0250	20.00	0	107	70	130				
Benzene	20.8	0.0120	20.00	0	104	70	130				
Toluene	21.2	0.0250	20.00	0	106	70	130				
Ethylbenzene	20.7	0.0250	20.00	0	103	70	130				
m,p-Xylene	41.7	0.0500	40.00	0	104	70	130				
o-Xylene	21.1	0.0250	20.00	0	105	70	130				
Surr: Dibromofluoromethane	26.4		25.00		105	80	120				
Surr: Toluene-d8	25.3		25.00		101	80	120				
Surr: 1-Bromo-4-fluorobenzene	24.4		25.00		97.5	80	120				

Sample ID: <b>VOC-CCV-93964A</b>	SampType: <b>CCV</b>	Units: <b>µg/L</b>			Prep Date: <b>8/21/2024</b>	RunNo: <b>93964</b>					
Client ID: <b>CCV</b>	Batch ID: <b>44941</b>				Analysis Date: <b>8/21/2024</b>	SeqNo: <b>1962388</b>					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	20.5	0.500	20.00	0	103	80	120				

Work Order: 2408312  
 CLIENT: GeoEngineers  
 Project: 701/709 South Jackson

**QC SUMMARY REPORT**  
**Volatile Organic Compounds by EPA 8260D**

Sample ID: <b>VOC-CCV-93964A</b>	SampType: <b>CCV</b>	Units: <b>µg/L</b>				Prep Date: <b>8/21/2024</b>	RunNo: <b>93964</b>				
Client ID: <b>CCV</b>	Batch ID: <b>44941</b>					Analysis Date: <b>8/21/2024</b>	SeqNo: <b>1962388</b>				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2-Dichloroethane (EDC)	22.8	0.200	20.00	0	114	80	120				
Benzene	23.5	0.200	20.00	0	118	80	120				
Toluene	24.0	0.500	20.00	0	120	80	120				
Ethylbenzene	21.0	0.500	20.00	0	105	80	120				
m,p-Xylene	41.2	1.00	40.00	0	103	80	120				
o-Xylene	21.1	0.500	20.00	0	105	80	120				
Surr: Dibromofluoromethane	29.6		25.00		118	80	120				
Surr: Toluene-d8	27.8		25.00		111	80	120				
Surr: 1-Bromo-4-fluorobenzene	24.9		25.00		99.4	80	120				

Sample ID: <b>LCS-44941</b>	SampType: <b>LCS</b>	Units: <b>µg/L</b>				Prep Date: <b>8/21/2024</b>	RunNo: <b>93964</b>				
Client ID: <b>LCSW</b>	Batch ID: <b>44941</b>					Analysis Date: <b>8/21/2024</b>	SeqNo: <b>1962402</b>				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	20.5	0.500	20.00	0	103	80	120				
1,2-Dichloroethane (EDC)	22.8	0.200	20.00	0	114	80	120				
Benzene	23.5	0.200	20.00	0	118	80	120				
Toluene	24.0	0.500	20.00	0	120	80	120				
Ethylbenzene	21.0	0.500	20.00	0	105	80	120				
m,p-Xylene	41.2	1.00	40.00	0	103	80	120				
o-Xylene	21.1	0.500	20.00	0	105	80	120				
Surr: Dibromofluoromethane	29.6		25.00		118	82.4	122.4				
Surr: Toluene-d8	27.8		25.00		111	81.4	121.4				
Surr: 1-Bromo-4-fluorobenzene	24.9		25.00		99.4	80.1	120.1				

Sample ID: <b>MB-44941</b>	SampType: <b>MBLK</b>	Units: <b>µg/L</b>				Prep Date: <b>8/21/2024</b>	RunNo: <b>93964</b>				
Client ID: <b>MBLKW</b>	Batch ID: <b>44941</b>					Analysis Date: <b>8/21/2024</b>	SeqNo: <b>1962389</b>				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	ND	0.500									
1,2-Dichloroethane (EDC)	ND	0.200									

Work Order: 2408312  
 CLIENT: GeoEngineers  
 Project: 701/709 South Jackson

**QC SUMMARY REPORT**  
**Volatile Organic Compounds by EPA 8260D**

Sample ID: <b>MB-44941</b>	SampType: <b>MBLK</b>	Units: <b>µg/L</b>	Prep Date: <b>8/21/2024</b>	RunNo: <b>93964</b>							
Client ID: <b>MBLKW</b>	Batch ID: <b>44941</b>		Analysis Date: <b>8/21/2024</b>	SeqNo: <b>1962389</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	ND	0.200									
Toluene	ND	0.500									
Ethylbenzene	ND	0.500									
m,p-Xylene	ND	1.00									
o-Xylene	ND	0.500									
Surr: Dibromofluoromethane	25.5		25.00		102	80	120				
Surr: Toluene-d8	29.1		25.00		116	80	120				
Surr: 1-Bromo-4-fluorobenzene	26.4		25.00		106	80	120				

Sample ID: <b>2408312-001ADUP</b>	SampType: <b>DUP</b>	Units: <b>µg/L</b>	Prep Date: <b>8/21/2024</b>	RunNo: <b>93964</b>							
Client ID: <b>GEI-11_082024</b>	Batch ID: <b>44941</b>		Analysis Date: <b>8/21/2024</b>	SeqNo: <b>1962393</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	ND	0.500						0		30	
1,2-Dichloroethane (EDC)	ND	0.200						0		30	
Benzene	ND	0.200						0		30	
Toluene	ND	0.500						0		30	
Ethylbenzene	ND	0.500						0		30	
m,p-Xylene	ND	1.00						0		30	
o-Xylene	ND	0.500						0		30	
Surr: Dibromofluoromethane	26.2		25.00		105	82.4	122.4		0		
Surr: Toluene-d8	29.0		25.00		116	81.4	121.4		0		
Surr: 1-Bromo-4-fluorobenzene	27.4		25.00		110	80.1	120.1		0		

Sample ID: <b>2408312-002AMS</b>	SampType: <b>MS</b>	Units: <b>µg/L</b>	Prep Date: <b>8/21/2024</b>	RunNo: <b>93964</b>							
Client ID: <b>GEI-12_082024</b>	Batch ID: <b>44941</b>		Analysis Date: <b>8/21/2024</b>	SeqNo: <b>1962401</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	26.9	0.500	20.00	0	135	66.3	142				
1,2-Dichloroethane (EDC)	28.2	0.200	20.00	0	141	70.5	134				S
Benzene	27.1	0.200	20.00	0	136	71.5	141				

**Work Order:** 2408312  
**CLIENT:** GeoEngineers  
**Project:** 701/709 South Jackson

**QC SUMMARY REPORT**  
**Volatile Organic Compounds by EPA 8260D**

Sample ID: <b>2408312-002AMS</b>	SampType: <b>MS</b>	Units: <b>µg/L</b>	Prep Date: <b>8/21/2024</b>	RunNo: <b>93964</b>							
Client ID: <b>GEI-12_082024</b>	Batch ID: <b>44941</b>		Analysis Date: <b>8/21/2024</b>	SeqNo: <b>1962401</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Toluene	27.9	0.500	20.00	0	139	70.9	138				S
Ethylbenzene	21.7	0.500	20.00	0	108	77.1	130				
m,p-Xylene	41.8	1.00	40.00	0	104	75.7	131				
o-Xylene	20.6	0.500	20.00	0	103	73	132				
Surr: Dibromofluoromethane	31.5		25.00		126	82.4	122.4				S
Surr: Toluene-d8	29.7		25.00		119	81.4	121.4				
Surr: 1-Bromo-4-fluorobenzene	25.5		25.00		102	80.1	120.1				

**NOTES:**

S - Outlying spike recoveries were associated with this sample.

Client Name: GEI	Work Order Number: 2408312
Logged by: Morgan Wilson	Date Received: 8/20/2024 3:20:00 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   
HCL
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	5.4

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



**Fremont Analytical**  
As Alliance Technical Group Company

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

# Chain of Custody Record & Laboratory Services Agreement

Date: 08/20/2024 Page: 1 of 1

Project Name: 701709 South Jackson

Project No: 24504-001-04

Collected by: Michael Ysaquire

Location: Seattle, WA

Report To (PW): Robert Trahan

Laboratory Project No (Internal): 2408312

Special Remarks:

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.	Analysis																								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 (Cl)**	EDC (8011)	EDC, MTBE (8260)	Naphthalenes (8270)														
1. GEI-11_082024	8/20/24	1050	W	10	<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"/>	<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"/>	Lab Filter for dissolved metals
2. GEI-12_082024	8/20/24	1200	W	10	<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"/>	<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"/>	Lab Filter for dissolved metals
3. GEI-13_082024	8/20/24	1330	W	10	<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"/>	<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"/>	Lab Filter for dissolved metals
4. Dup_082024	8/20/24	--	W	10	<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"/>	<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. Trip Blank	n/a	--	W	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"/>	<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.					<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"/>	<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.					<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"/>	<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"/>		
8.					<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"/>	<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"/>		
9.					<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"/>	<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"/>		
10.					<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"/>	<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"/>		

\*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 Si 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 **Michael Ysaquire** Date/Time **8/20/24 1518**  
 Relinquished (Signature) *[Signature]* Print Name **Kathleen Keller** Date/Time **8/20/24 1500**

Turn-around Time:  
 Standard  Next Day  
 3 Day  Same Day  
 2 Day [specify]



**DATA SET for Review - Deliverable Requirements**

**Diesel and Heavy Oil by NWTPH-Dx**

Fremont Analytical Work Order No. 2408312

**GeoEngineers**

Project Name: 701/709 South Jackson

Project Number: 24504-001-04

This data set contains the following:

- Analytical Sequence Summary
- Calibration Information

Data Directory: D:\GC-24\Data\2024\240409FRONT\

SampleName	MiscInfo	Vial	Multiplier	Injection Time		
1) 04090050.D No data found	DX_220112.M		0.000	N/A		
2) 04090049.D No data found	DX_220112.M		0.000	N/A		
3) 04090002.D CO	DX_220112.M	150	1.000	09 Apr 2024	11:13	am
4) 04090004.D HO ICB	DX_220112.M	28	1.000	09 Apr 2024	11:24	am
5) 04090006.D HO ICB rr	DX_220112.M	28	1.000	09 Apr 2024	11:34	am
6) 04090008.D HO 20	DX_220112.M	21	1.000	09 Apr 2024	11:45	am
7) 04090010.D HO 100	DX_220112.M	22	1.000	09 Apr 2024	11:56	am
8) 04090012.D HO 500	DX_220112.M	23	1.000	09 Apr 2024	12:07	pm
9) 04090014.D HO 1000	DX_220112.M	24	1.000	09 Apr 2024	12:18	pm
10) 04090016.D HO 2000	DX_220112.M	25	1.000	09 Apr 2024	12:29	pm
11) 04090018.D HO 5000	DX_220112.M	26	1.000	09 Apr 2024	12:39	pm
12) 04090020.D HO 10000	DX_220112.M	27	1.000	09 Apr 2024	12:50	pm
13) 04090022.D CO	DX_220112.M	150	1.000	09 Apr 2024	01:01	pm
14) 04090024.D CO	DX_220112.M	150	1.000	09 Apr 2024	01:12	pm
15) 04090026.D HO ICV	DX_220112.M	29	1.000	09 Apr 2024	01:23	pm
16) 04090028.D CO	DX_220112.M	150	1.000	09 Apr 2024	01:34	pm
17) 04090030.D DX ICB	DX_220112.M	18	1.000	09 Apr 2024	01:45	pm
18) 04090032.D DX 20	DX_220112.M	11	1.000	09 Apr 2024	01:55	pm
19) 04090034.D DX 100	DX_220112.M	12	1.000	09 Apr 2024	02:06	pm
20) 04090036.D DX 500	DX_220112.M	13	1.000	09 Apr 2024	02:17	pm
21) 04090038.D DX 1000	DX_220112.M	14	1.000	09 Apr 2024	02:28	pm

22) 04090040.D	DX_220112.M	15	1.000	09 Apr 2024	02:39 pm
DX 2000					
23) 04090042.D	DX_220112.M	16	1.000	09 Apr 2024	02:49 pm
DX 5000					
24) 04090044.D	DX_220112.M	17	1.000	09 Apr 2024	03:00 pm
DX 10000					
25) 04090046.D	DX_220112.M	19	1.000	09 Apr 2024	03:11 pm
DX ICV					
26) 04090048.D	DX_220112.M	2	1.000	09 Apr 2024	03:22 pm
OIL-CCV					

Data Directory: D:\GC-24\Data\2024\240826FRONT\

SampleName	MiscInfo	Vial	Multiplier	Injection Time
1) 08260002.D CO	DX_220112.M	150	1.000	26 Aug 2024 08:44 am
2) 08260004.D CO	DX_220112.M	150	1.000	26 Aug 2024 08:56 am
3) 08260006.D OIL-CCV	DX_220112.M	2	1.000	26 Aug 2024 09:08 am
4) 08260008.D DX-CCV	DX_220112.M	1	1.000	26 Aug 2024 09:20 am
5) 08260010.D CO	DX_220112.M	150	1.000	26 Aug 2024 09:31 am
6) 08260012.D OIL-CCV	DX_220112.M	2	1.000	26 Aug 2024 10:36 am
7) 08260014.D DX-CCV	DX_220112.M	1	1.000	26 Aug 2024 10:47 am
8) 08260016.D CO	DX_220112.M	150	1.000	26 Aug 2024 10:59 am
9) 08260018.D MB-44970	DX_220112.M	91	1.000	26 Aug 2024 12:39 pm
10) 08260020.D LCS-44970	DX_220112.M	92	1.000	26 Aug 2024 12:51 pm
11) 08260022.D LCSD-44970	DX_220112.M	93	1.000	26 Aug 2024 01:03 pm
12) 08260024.D 2408411-001A	DX_220112.M	112	1.000	26 Aug 2024 01:15 pm
13) 08260026.D CO	DX_220112.M	150	1.000	26 Aug 2024 01:27 pm
14) 08260028.D OIL-CCV	DX_220112.M	2	1.000	26 Aug 2024 01:39 pm
15) 08260030.D DX-CCV	DX_220112.M	1	1.000	26 Aug 2024 01:50 pm
16) 08260032.D CO	DX_220112.M	150	1.000	26 Aug 2024 02:02 pm
17) 08260034.D 2408312-001B	DX_220112.M	94	1.000	26 Aug 2024 05:10 pm
18) 08260036.D 2408312-002B	DX_220112.M	95	1.000	26 Aug 2024 05:22 pm
19) 08260038.D 2408312-003B	DX_220112.M	96	1.000	26 Aug 2024 05:34 pm
20) 08260040.D 2408312-004B	DX_220112.M	97	1.000	26 Aug 2024 05:46 pm
21) 08260042.D 2408346-001B	DX_220112.M	99	1.000	26 Aug 2024 05:58 pm

22) 08260044.D 2408346-002B	DX_220112.M	100	1.000	26 Aug 2024	06:10 pm
23) 08260046.D 2408346-003B	DX_220112.M	101	1.000	26 Aug 2024	06:22 pm
24) 08260048.D 2408350-001B	DX_220112.M	102	1.000	26 Aug 2024	06:34 pm
25) 08260050.D 2408357-001B	DX_220112.M	103	1.000	26 Aug 2024	06:45 pm
26) 08260052.D 2408357-002B	DX_220112.M	104	1.000	26 Aug 2024	06:57 pm
27) 08260054.D 2408357-003B	DX_220112.M	105	1.000	26 Aug 2024	07:09 pm
28) 08260056.D 2408358-001B	DX_220112.M	106	1.000	26 Aug 2024	07:21 pm
29) 08260058.D 2408390-001B	DX_220112.M	108	1.000	26 Aug 2024	07:33 pm
30) 08260060.D 2408343-003A	DX_220112.M	98	1.000	26 Aug 2024	07:45 pm
31) 08260062.D CO	DX_220112.M	150	1.000	26 Aug 2024	07:57 pm
32) 08260064.D 2408384-001A	DX_220112.M	107	1.000	26 Aug 2024	08:09 pm
33) 08260066.D CO	DX_220112.M	150	1.000	26 Aug 2024	08:20 pm
34) 08260068.D CO	DX_220112.M	150	1.000	26 Aug 2024	08:32 pm
35) 08260070.D OIL-CCV	DX_220112.M	2	1.000	26 Aug 2024	08:44 pm
36) 08260072.D DX-CCV	DX_220112.M	1	1.000	26 Aug 2024	08:56 pm
37) 08260074.D CO	DX_220112.M	150	1.000	26 Aug 2024	09:08 pm
38) 08260076.D MB-44973	DX_220112.M	121	1.000	26 Aug 2024	09:20 pm
39) 08260078.D LCS-44973	DX_220112.M	122	1.000	26 Aug 2024	09:32 pm
40) 08260080.D 2408391-005A	DX_220112.M	123	1.000	26 Aug 2024	09:44 pm
41) 08260082.D 2408391-007A	DX_220112.M	124	1.000	26 Aug 2024	09:56 pm
42) 08260084.D 2408391-008A	DX_220112.M	125	1.000	26 Aug 2024	10:08 pm
43) 08260086.D 2408391-010A	DX_220112.M	126	1.000	26 Aug 2024	10:20 pm
44) 08260088.D 2408391-010AMS	DX_220112.M	127	1.000	26 Aug 2024	10:31 pm
45) 08260090.D	DX_220112.M				

2408391-010AMSD		128	1.000	26 Aug 2024	10:43 pm
46) 08260092.D	DX_220112.M				
2408391-011A		129	1.000	26 Aug 2024	10:55 pm
47) 08260094.D	DX_220112.M				
2408391-013A		130	1.000	26 Aug 2024	11:07 pm
48) 08260096.D	DX_220112.M				
2408391-014A		131	1.000	26 Aug 2024	11:19 pm
49) 08260098.D	DX_220112.M				
2408403-001A		132	1.000	26 Aug 2024	11:31 pm
50) 08260100.D	DX_220112.M				
2408403-002A		133	1.000	26 Aug 2024	11:43 pm
51) 08260102.D	DX_220112.M				
CO		150	1.000	26 Aug 2024	11:55 pm
52) 08260104.D	DX_220112.M				
OIL-CCV		2	1.000	27 Aug 2024	12:07 am
53) 08260106.D	DX_220112.M				
DX-CCV		1	1.000	27 Aug 2024	12:18 am
54) 08260108.D	DX_220112.M				
CO		150	1.000	27 Aug 2024	12:30 am
55) 08260110.D	DX_220112.M				
2408403-003A		134	1.000	27 Aug 2024	12:42 am
56) 08260112.D	DX_220112.M				
2408403-004A		135	1.000	27 Aug 2024	12:54 am
57) 08260114.D	DX_220112.M				
2408403-005A		136	1.000	27 Aug 2024	01:06 am
58) 08260116.D	DX_220112.M				
2408403-006A		137	1.000	27 Aug 2024	01:18 am
59) 08260118.D	DX_220112.M				
2408403-007A		138	1.000	27 Aug 2024	01:30 am
60) 08260120.D	DX_220112.M				
2408403-009A		140	1.000	27 Aug 2024	01:42 am
61) 08260122.D	DX_220112.M				
2408403-010A		141	1.000	27 Aug 2024	01:54 am
62) 08260124.D	DX_220112.M				
2408403-010ADUP		142	1.000	27 Aug 2024	02:06 am
63) 08260126.D	DX_220112.M				
2408403-011A		143	1.000	27 Aug 2024	02:17 am
64) 08260128.D	DX_220112.M				
2408403-012A		144	1.000	27 Aug 2024	02:29 am
65) 08260130.D	DX_220112.M				
2408403-013A		145	1.000	27 Aug 2024	02:41 am
66) 08260132.D	DX_220112.M				
2408403-008A		139	1.000	27 Aug 2024	02:53 am
67) 08260134.D	DX_220112.M				
CO		150	1.000	27 Aug 2024	03:05 am
68) 08260136.D	DX_220112.M				
CO		150	1.000	27 Aug 2024	03:17 am

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-----  
69) 08260138.D          DX_220112.M  
OIL-CCV                2      1.000      27 Aug 2024  03:29 am  
-----  
70) 08260140.D          DX_220112.M  
DX-CCV                 1      1.000      27 Aug 2024  03:41 am  
-----  
71) 08260142.D          DX_220112.M  
CO                    150    1.000      27 Aug 2024  03:52 am  
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# Calibration

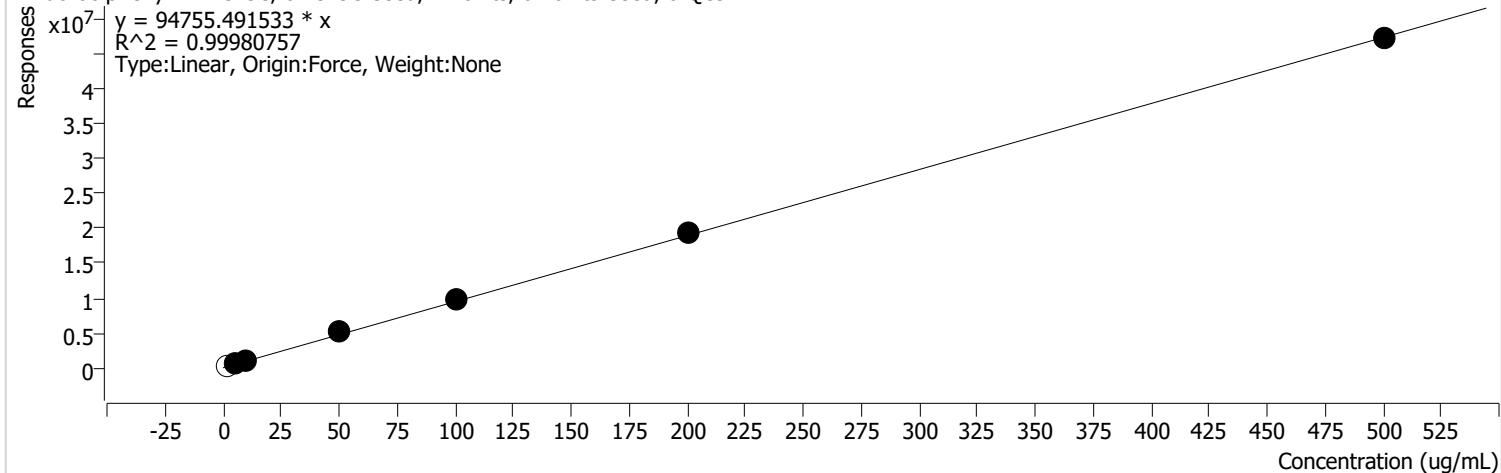


# Calibration Report

<b>Batch Path</b>	D:\GC-24\Data\2024\240409FRONT\QuantResults\DX HO Cal.batch.bin		
<b>Analysis Time</b>	4/9/2024 3:35:36 PM	<b>Analyst Name</b>	FA\GC24
<b>Report Time</b>	4/9/2024 3:37:09 PM	<b>Reporter Name</b>	GC24
<b>Last Calib Update</b>	4/9/2024 3:34:13 PM	<b>Batch State</b>	Processed

## 2-Fluorobiphenyl

2-Fluorobiphenyl - 7 Levels, 6 Levels Used, 7 Points, 6 Points Used, 0 QCs



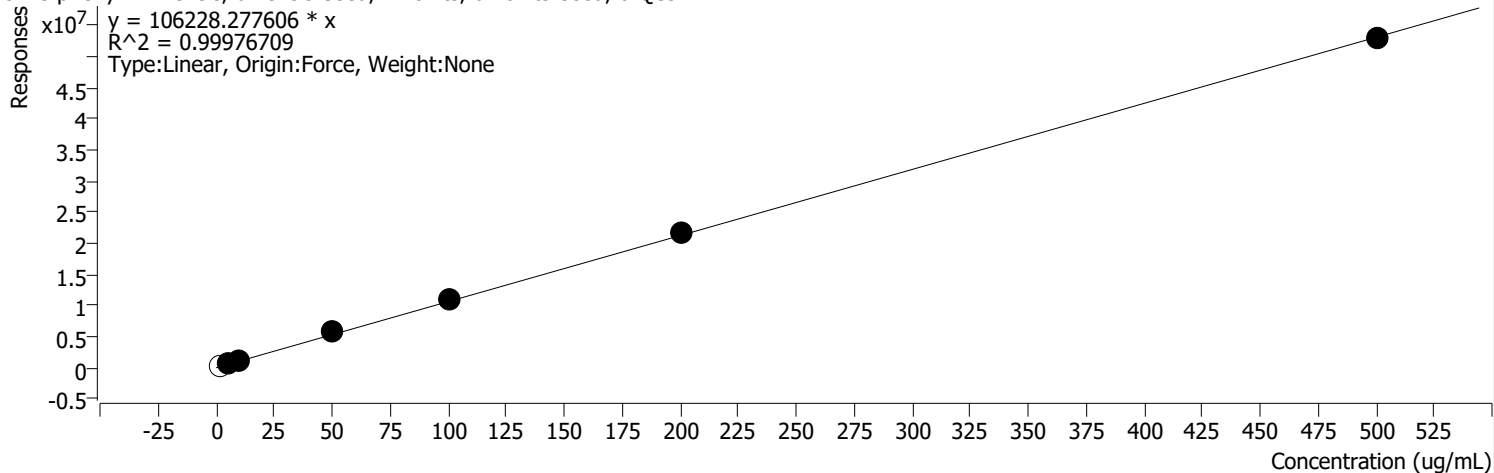
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
D:\GC-24\Data\2024\240409FRONT\04090008.D	Calibration	1		108737	2.0000	54368.3729
D:\GC-24\Data\2024\240409FRONT\04090010.D	Calibration	2	x	526763	5.0000	105352.6189
D:\GC-24\Data\2024\240409FRONT\04090012.D	Calibration	3	x	941145	10.0000	94114.5331
D:\GC-24\Data\2024\240409FRONT\04090014.D	Calibration	4	x	5087405	50.0000	101748.0975
D:\GC-24\Data\2024\240409FRONT\04090016.D	Calibration	5	x	9687983	100.0000	96879.8320
D:\GC-24\Data\2024\240409FRONT\04090018.D	Calibration	6	x	19256759	200.0000	96283.7947
D:\GC-24\Data\2024\240409FRONT\04090020.D	Calibration	7	x	47177630	500.0000	94355.2600

# Calibration Report

<b>Batch Path</b>	D:\GC-24\Data\2024\240409FRONT\QuantResults\DX HO Cal.batch.bin		
<b>Analysis Time</b>	4/9/2024 3:35:36 PM	<b>Analyst Name</b>	FA\GC24
<b>Report Time</b>	4/9/2024 3:37:11 PM	<b>Reporter Name</b>	GC24
<b>Last Calib Update</b>	4/9/2024 3:34:13 PM	<b>Batch State</b>	Processed

## O-Terphenyl

O-Terphenyl - 7 Levels, 6 Levels Used, 7 Points, 6 Points Used, 0 QCs



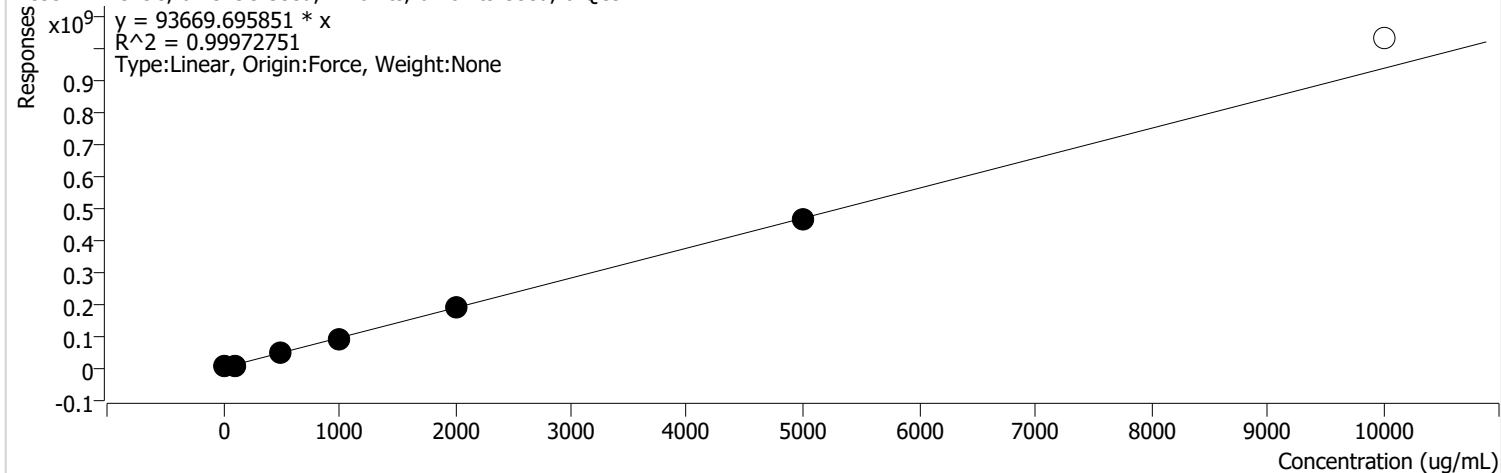
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
D:\GC-24\Data\2024\240409FRONT\04090008.D	Calibration	1		122247	2.0000	61123.7050
D:\GC-24\Data\2024\240409FRONT\04090010.D	Calibration	2	x	585252	5.0000	117050.4960
D:\GC-24\Data\2024\240409FRONT\04090012.D	Calibration	3	x	1067239	10.0000	106723.8862
D:\GC-24\Data\2024\240409FRONT\04090014.D	Calibration	4	x	5728591	50.0000	114571.8154
D:\GC-24\Data\2024\240409FRONT\04090016.D	Calibration	5	x	10852786	100.0000	108527.8597
D:\GC-24\Data\2024\240409FRONT\04090018.D	Calibration	6	x	21655546	200.0000	108277.7295
D:\GC-24\Data\2024\240409FRONT\04090020.D	Calibration	7	x	52861833	500.0000	105723.6662

# Calibration Report

<b>Batch Path</b>	D:\GC-24\Data\2024\240409FRONT\QuantResults\DX HO Cal.batch.bin		
<b>Analysis Time</b>	4/9/2024 3:35:36 PM	<b>Analyst Name</b>	FA\GC24
<b>Report Time</b>	4/9/2024 3:37:11 PM	<b>Reporter Name</b>	GC24
<b>Last Calib Update</b>	4/9/2024 3:34:13 PM	<b>Batch State</b>	Processed

**Diesel**

Diesel - 7 Levels, 6 Levels Used, 7 Points, 6 Points Used, 0 QCs



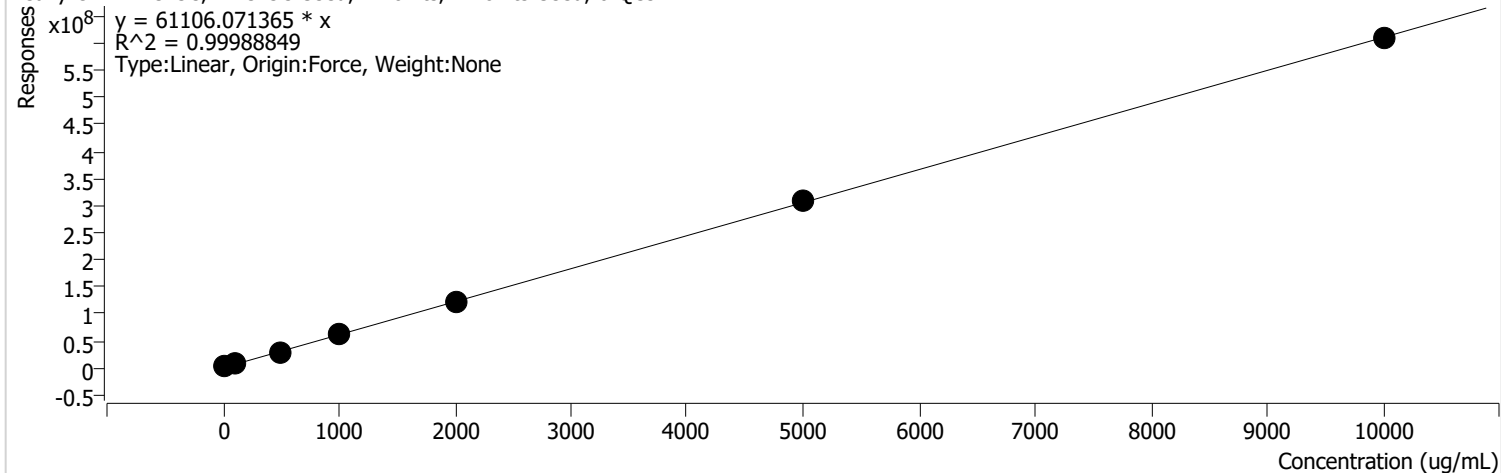
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
D:\GC-24\Data\2024\240409FRONT\04090032.D	Calibration	1	x	1669720	20.0000	83485.9944
D:\GC-24\Data\2024\240409FRONT\04090034.D	Calibration	2	x	8858734	100.0000	88587.3447
D:\GC-24\Data\2024\240409FRONT\04090036.D	Calibration	3	x	44469581	500.0000	88939.1616
D:\GC-24\Data\2024\240409FRONT\04090038.D	Calibration	4	x	90064304	1000.0000	90064.3038
D:\GC-24\Data\2024\240409FRONT\04090040.D	Calibration	5	x	192150967	2000.0000	96075.4834
D:\GC-24\Data\2024\240409FRONT\04090042.D	Calibration	6	x	467392434	5000.0000	93478.4867
D:\GC-24\Data\2024\240409FRONT\04090044.D	Calibration	7		1029509249	10000.0000	102950.9249

# Calibration Report

<b>Batch Path</b>	D:\GC-24\Data\2024\240409FRONT\QuantResults\DX HO Cal.batch.bin		
<b>Analysis Time</b>	4/9/2024 3:35:36 PM	<b>Analyst Name</b>	FA\GC24
<b>Report Time</b>	4/9/2024 3:37:11 PM	<b>Reporter Name</b>	GC24
<b>Last Calib Update</b>	4/9/2024 3:34:13 PM	<b>Batch State</b>	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\2024\240409FRONT\04090008.D	Calibration	1	x	1381197	20.0000	69059.8471
D:\GC-24\Data\2024\240409FRONT\04090010.D	Calibration	2	x	6448573	100.0000	64485.7256
D:\GC-24\Data\2024\240409FRONT\04090012.D	Calibration	3	x	29879419	500.0000	59758.8383
D:\GC-24\Data\2024\240409FRONT\04090014.D	Calibration	4	x	63343436	1000.0000	63343.4359
D:\GC-24\Data\2024\240409FRONT\04090016.D	Calibration	5	x	123167055	2000.0000	61583.5274
D:\GC-24\Data\2024\240409FRONT\04090018.D	Calibration	6	x	310007745	5000.0000	62001.5491
D:\GC-24\Data\2024\240409FRONT\04090020.D	Calibration	7	x	608437284	10000.0000	60843.7284

## Heavy Oil Calibration

Date: 3/29/24

Oil CAL STD: 28889

Concentration: 50,000 ug/L

Analyst: Alex Pates

Oil ICV (SS): 27047

Concentration: 50,000 ug/L

MeCl2: 8059

SURROGATE: 29510

Concentration: 1,000 ug/L

		1		3	2			
	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 -	300 <del>800</del> AH 3/29/24	50,000	200	500 -	1	
28	ICB	-	990	-	-	10	1	
29	ICV (500)	10	980	50,000 SS	10	10	1	

Signature and Date: Alex Pates 3/29/24

Signature: ADK

700 Building Calibration Template - HO v1.2

1 of 1

Official Approval: 7/6/2023

## Diesel Calibration

Date: 3/29/24

DX CAL STD: 29114

Concentration: 50,000 ug/L

Analyst: Alex Pates

DX ICV (SS): 28397

Concentration: 50,000 ug/L

MeCl2: 8059

Surr: 29510

Concentration 1000 mg/L

	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	990 980 AHP 3/29/24	-	-	10	1	
19	ICV (500)	980 970 AHP 3/29/24	50,000 SS	10	10	1	

Signature and Date: Alex Pates 3/29/24

Signature: ADK

700 Building Calibration Template - Dx v1.2

1 of 1

Official Approval: 7/6/2023

# Supporting Data

## Diesel Water Prep Bench Sheet

Analyst: <u>DZ</u> Date and Time: <u>8/23/24</u> Batch: <u>44920</u>	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2">Equipment</th> </tr> <tr> <th>Type</th> <th>ID</th> </tr> </thead> <tbody> <tr> <td>Balance:</td> <td><u>2x</u></td> </tr> <tr> <td>Solvent Dispenser:</td> <td><u>5</u></td> </tr> <tr> <td>Buchi:</td> <td><u>2</u></td> </tr> <tr> <td>Other:</td> <td></td> </tr> </tbody> </table>	Equipment		Type	ID	Balance:	<u>2x</u>	Solvent Dispenser:	<u>5</u>	Buchi:	<u>2</u>	Other:		<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Spikes / Chemicals / Reagents</th> <th>Omega ID <u>DZ 8/23/24</u></th> <th>Amount Used</th> </tr> </thead> <tbody> <tr> <td>Diesel Surrogate 1,000 ug/mL</td> <td><u>24975 30/55</u></td> <td>10 µL</td> </tr> <tr> <td>Diesel Spike 50,000 ug/mL</td> <td><u>249697</u></td> <td>10 µL</td> </tr> <tr> <td>1:1 Sulfuric Acid</td> <td><u>6805</u></td> <td>~1 mL</td> </tr> <tr> <td>pH strips</td> <td><u>30210</u></td> <td>1/Each</td> </tr> <tr> <td>Methylene Chloride</td> <td><u>4249</u></td> <td>70 mL</td> </tr> <tr> <td>Sodium Sulfate</td> <td><u>5265</u></td> <td>~5 g</td> </tr> <tr> <td colspan="3">Silica Gel   Circle One: YES / NO  </td> </tr> </tbody> </table>	Spikes / Chemicals / Reagents	Omega ID <u>DZ 8/23/24</u>	Amount Used	Diesel Surrogate 1,000 ug/mL	<u>24975 30/55</u>	10 µL	Diesel Spike 50,000 ug/mL	<u>249697</u>	10 µL	1:1 Sulfuric Acid	<u>6805</u>	~1 mL	pH strips	<u>30210</u>	1/Each	Methylene Chloride	<u>4249</u>	70 mL	Sodium Sulfate	<u>5265</u>	~5 g	Silica Gel   Circle One: YES / NO		
Equipment																																						
Type	ID																																					
Balance:	<u>2x</u>																																					
Solvent Dispenser:	<u>5</u>																																					
Buchi:	<u>2</u>																																					
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Spikes / Chemicals / Reagents	Omega ID <u>DZ 8/23/24</u>	Amount Used																																				
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1:1 Sulfuric Acid	<u>6805</u>	~1 mL																																				
pH strips	<u>30210</u>	1/Each																																				
Methylene Chloride	<u>4249</u>	70 mL																																				
Sodium Sulfate	<u>5265</u>	~5 g																																				
Silica Gel   Circle One: YES / NO																																						
Notes / Modifications     	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2">Bottle Roller Times</th> </tr> </thead> <tbody> <tr> <td>Roller START:</td> <td><u>18:00</u></td> </tr> <tr> <td>Roller STOP:</td> <td><u>8:00</u></td> </tr> <tr> <td>Roller START:</td> <td></td> </tr> <tr> <td>Roller STOP:</td> <td></td> </tr> </tbody> </table>	Bottle Roller Times		Roller START:	<u>18:00</u>	Roller STOP:	<u>8:00</u>	Roller START:		Roller STOP:		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 70%;">Final Volume Before Analysis</td> <td style="width: 30%;">1 mL</td> </tr> </table>	Final Volume Before Analysis	1 mL																								
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	Roller START:	<u>18:00</u>																																				
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Roller STOP:																																						
Final Volume Before Analysis	1 mL																																					
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2">Buchi Concentration Times</th> </tr> </thead> <tbody> <tr> <td>Buchi START:</td> <td><u>10:57</u></td> </tr> <tr> <td>Buchi STOP:</td> <td><u>12:27</u></td> </tr> <tr> <td>Buchi START:</td> <td><u>3:11</u></td> </tr> <tr> <td>Buchi STOP:</td> <td></td> </tr> </tbody> </table>	Buchi Concentration Times		Buchi START:	<u>10:57</u>	Buchi STOP:	<u>12:27</u>	Buchi START:	<u>3:11</u>	Buchi STOP:		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 70%;">I acknowledge the spike/chemical/reagent amounts listed above were used</td> <td style="width: 30%;">Initial/Date <u>DZ 8/23/24</u></td> </tr> </table>	I acknowledge the spike/chemical/reagent amounts listed above were used	Initial/Date <u>DZ 8/23/24</u>																									
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Prep Start Date: 8/23/2024 11:28:52  
 Prep End Date: 8/23/2024 1:02:43 P  
 Technician: Drake Imanishi

Prep Factor Units:  
 mL / mL

Prep Batch ID: 44970 Prep Code: PREP-DX-W Method No: SW3510C

Sample ID	ClientSampleID	Matrix	Sample Amount (mL)	Final Vol (mL)	Prep Factor	PrepStart	PrepEnd
<b>FRONT</b>							
MB-44970		91 Unknown	425.03	1	0.002	8/23/2024	8/23/2024
LCS-44970		92 Unknown	430.42	1	0.002	8/23/2024	8/23/2024
LCS-D-44970		93 Unknown	428.49	1	0.002	8/23/2024	8/23/2024
2408312-001B	GEI-11_082024	94 Water	435.35	1	0.002	8/23/2024	8/23/2024
2408312-002B	GEI-12_082024	95 Water	434.5	1	0.002	8/23/2024	8/23/2024
2408312-003B	GEI-13_082024	96 Water	428.86	1	0.002	8/23/2024	8/23/2024
2408312-004B	Dup_082024	97 Water	430.83	1	0.002	8/23/2024	8/23/2024
2408343-003A	Stormwater Diesel and	98 Stormwater	425.06	1	0.002	8/23/2024	8/23/2024
2408346-001B	GEI-1	99 Water	427.92	1	0.002	8/23/2024	8/23/2024
2408346-002B	GEI-2	100 Water	424.7	1	0.002	8/23/2024	8/23/2024
2408346-003B	GEI-3	101 Water	431.75	1	0.002	8/23/2024	8/23/2024
2408350-001B	STAR 003EFF 082120	102 Stormwater	428.72	1	0.002	8/23/2024	8/23/2024
2408357-001B	ows-706-253	103 Water	426.65	1	0.002	8/23/2024	8/23/2024
2408357-002B	preLGAC-706-253	104 Water	419.62	1	0.002	8/23/2024	8/23/2024
2408357-003B	midLGAC-706-253	105 Water	432.06	1	0.002	8/23/2024	8/23/2024
2408358-001B	Discharge-706-253	106 Water	426.7	1	0.002	8/23/2024	8/23/2024
2408364-001A	Pond	107 Stormwater	429.91	1	0.002	8/23/2024	8/23/2024
2408390-001B	MW-6-082124	108 Water	422.06	1	0.002	8/23/2024	8/23/2024
2408390-002B	MW-11-082124	109 Water	430.08	1	0.002	8/23/2024	8/23/2024
2408390-003B	MW-3R-082124	110 Water	381.76	1	0.003	8/23/2024	8/23/2024
Approx 45 mL spilled while weighing							
2408390-004B	MW-100-082124	111 Water	211.02	1	0.005	8/23/2024	8/23/2024
Full volume provided by client							
2408411-001A		112 309					

Prep Start Date: 8/23/2024 11:28:52  
 Prep End Date: 8/26/2024 8:00:12 A  
 Technician: Drake Imanishi

Prep Factor Units:  
 mL / mL

Prep Batch ID: 44970 Prep Code: PREP-DX-W Method No: SW3510C

Sample ID	ClientSampleID	Matrix	Sample Amount (mL)	Final Vol (mL)	Prep Factor	PrepStart	PrepEnd
MB-44970		Unknown	425.03	1	0.002	8/23/2024	8/23/2024
LCS-44970		Unknown	430.42	1	0.002	8/23/2024	8/23/2024
LCSD-44970		Unknown	428.49	1	0.002	8/23/2024	8/23/2024
2408312-001B	GEI-11_082024	Water	435.35	1	0.002	8/23/2024	8/23/2024
2408312-002B	GEI-12_082024	Water	434.5	1	0.002	8/23/2024	8/23/2024
2408312-003B	GEI-13_082024	Water	428.86	1	0.002	8/23/2024	8/23/2024
2408312-004B	Dup_082024	Water	430.83	1	0.002	8/23/2024	8/23/2024
2408343-003A	Stormwater Diesel and	Stormwater	425.06	1	0.002	8/23/2024	8/23/2024
2408346-001B	GEI-1	Water	427.92	1	0.002	8/23/2024	8/23/2024
2408346-002B	GEI-2	Water	424.7	1	0.002	8/23/2024	8/23/2024
2408346-003B	GEI-3	Water	431.75	1	0.002	8/23/2024	8/23/2024
2408350-001B	STAR.003EFF.082120	Stormwater	428.72	1	0.002	8/23/2024	8/23/2024
2408357-001B	ows-706-253	Water	426.65	1	0.002	8/23/2024	8/23/2024
2408357-002B	preLGAC-706-253	Water	419.62	1	0.002	8/23/2024	8/23/2024
2408357-003B	midLGAC-706-253	Water	432.06	1	0.002	8/23/2024	8/23/2024
2408358-001B	Discharge-706-253	Water	426.7	1	0.002	8/23/2024	8/23/2024
2408384-001A	Pond	Stormwater	429.91	1	0.002	8/23/2024	8/23/2024
2408390-001B	MW-6-082124	Water	422.06	1	0.002	8/23/2024	8/23/2024
2408390-002B	MW-11-082124	Water	430.08	1	0.002	8/23/2024	8/23/2024
2408390-003B	MW-3R-082124	Water	381.76	1	0.003	8/23/2024	8/23/2024
Aprox 45 mL spilled while weighing							
2408390-004B	MW-100-082124	Water	211.02	1	0.005	8/23/2024	8/23/2024
Full volume provided by client							
2408411-001A	2024-0823-OF1	Stormwater	427.71	1	0.002	8/23/2024	8/26/2024

Prep Start Date: **8/23/2024 11:28:52**  
 Prep End Date: **8/26/2024 8:00:12 A**  
 Technician: **Drake Imanishi**

Prep Factor Units:  
 mL / mL

Prep Batch ID: **44970** Prep Code: **PREP-DX-W** Method No: **SW3510C**

Sample ID	ClientSampleID	Matrix	Sample Amount (mL)	Final Vol (mL)	Prep Factor	PrepStart	PrepEnd
MB-44970		Unknown	425.03	1	0.002	8/23/2024	8/23/2024
LCS-44970		Unknown	430.42	1	0.002	8/23/2024	8/23/2024
LCSD-44970		Unknown	428.49	1	0.002	8/23/2024	8/23/2024
2408312-001B	GEI-11_082024	Water	435.35	1	0.002	8/23/2024	8/23/2024
2408312-002B	GEI-12_082024	Water	434.5	1	0.002	8/23/2024	8/23/2024
2408312-003B	GEI-13_082024	Water	428.86	1	0.002	8/23/2024	8/23/2024
2408312-004B	Dup_082024	Water	430.83	1	0.002	8/23/2024	8/23/2024
2408343-003A	Stormwater Diesel and	Stormwater	425.06	1	0.002	8/23/2024	8/23/2024
2408346-001B	GEI-1	Water	427.92	1	0.002	8/23/2024	8/23/2024
2408346-002B	GEI-2	Water	424.7	1	0.002	8/23/2024	8/23/2024
2408346-003B	GEI-3	Water	431.75	1	0.002	8/23/2024	8/23/2024
2408350-001B	STAR.003EFF.08212	Stormwater	428.72	1	0.002	8/23/2024	8/23/2024
2408357-001B	ows-706-253	Water	426.65	1	0.002	8/23/2024	8/23/2024
2408357-002B	preLGAC-706-253	Water	419.62	1	0.002	8/23/2024	8/23/2024
2408357-003B	midLGAC-706-253	Water	432.06	1	0.002	8/23/2024	8/23/2024
2408358-001B	Discharge-706-253	Water	426.7	1	0.002	8/23/2024	8/23/2024
2408384-001A	Pond	Stormwater	429.91	1	0.002	8/23/2024	8/23/2024
2408390-001B	MW-6-082124	Water	422.06	1	0.002	8/23/2024	8/23/2024
2408390-002B	MW-11-082124	Water	430.08	1	0.002	8/23/2024	8/23/2024
2408390-003B	MW-3R-082124	Water	381.76	1	0.003	8/23/2024	8/23/2024
Approx 45 mL spilled while weighing							
2408390-004B	MW-100-082124	Water	211.02	1	0.005	8/23/2024	8/23/2024
Full volume provided by client							
2408411-001A	2024-0823-OF1	Stormwater	427.71	1	0.002	8/23/2024	8/26/2024

# Reporting Checklist



Analyst: Alex Pates + Savannah Houser  
 Date: 8/26/24  
 Prep #: 44970  
 Run(s) #: 93895

Workorder(s): 08411; 08312; 08346; 08350;  
08358; 08390; 08343; 08384  
 Analysis: O-DXEX-W

Y/N		Reviewed
N	Run complete? (i.e., all QC, samples, dilutions present)	<input checked="" type="checkbox"/>
Y	All QC within limits? <input type="checkbox"/> Exceedances acceptable per QA Manual and/or Auth'd by PM ___?	<input checked="" type="checkbox"/>
	<input type="checkbox"/> CCV out <input type="checkbox"/> LCS out <input type="checkbox"/> MS out <input type="checkbox"/> Blank hits <input type="checkbox"/> IS/surr out <input type="checkbox"/> RPD out <input type="checkbox"/> Hold time <input type="checkbox"/> Other _____	
N	Any pending dilutions, re-extracts, or reanalysis to be completed in future run?	
N/A	Manual entries/narratives reviewed for accuracy? (note below)    Analyst: _____    Reviewer: _____	<input type="checkbox"/>
<input checked="" type="checkbox"/>	Omega checks performed?	<input checked="" type="checkbox"/>
	<input checked="" type="checkbox"/> SampID, Test Code, Type, Prep	
	<input checked="" type="checkbox"/> PMOIST, pH	
	<input checked="" type="checkbox"/> BLKref, SPKref, RPDref, CCVref	
	<input checked="" type="checkbox"/> Attachments	<input checked="" type="checkbox"/>
	<input checked="" type="checkbox"/> Sequence <input checked="" type="checkbox"/> Cgrams <input checked="" type="checkbox"/> Bench Sheets <input type="checkbox"/> Perf Checks <input type="checkbox"/> Tech Doc	<input checked="" type="checkbox"/>
	<input checked="" type="checkbox"/> Related Info	<input checked="" type="checkbox"/>
	<input checked="" type="checkbox"/> ICAL Ref <input type="checkbox"/> ICAL Ack/QA'd? <input checked="" type="checkbox"/> Spiking Info/CCV Std <input type="checkbox"/> _____	<input checked="" type="checkbox"/>
	<input checked="" type="checkbox"/> Reporting Checks	<input checked="" type="checkbox"/>
	<input type="checkbox"/> Dilutions data/narr redundancy check <input type="checkbox"/> RLs OK (low wt, high pmoist, dilutions)	

**Notes for Reviewer**

By signing, I attest that I have followed the SOP

**Savannah Houser 8/27/24**

**MG 8/27/2024**

Analyst \_\_\_\_\_ Date \_\_\_\_\_

Reviewer \_\_\_\_\_ Date \_\_\_\_\_

**DATA SET for Review - Deliverable Requirements**

**Dissolved Metals by EPA 6020B**

Fremont Analytical Work Order No. 2408312

**GeoEngineers**

Project Name: 701/709 South Jackson

Project Number: 24504-001-04

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\240821ME.b

## Batch Log

#	Acq. Date-Time	Sample Type	Sample Name	Vial#	File Name	Acquisition Result	Error Message	Dilution Result	Comment	Operator	Replicates	Level
1	8/21/2024 08:36:46	CalBlk	CAL BLANK	1	001CALB.d	Pass		1		ICPMS		1
2	8/21/2024 08:39:05	CalBlk	CAL BLANK	1	002CALB.d	Pass		1		ICPMS		1
3	8/21/2024 08:41:41	CalBlk	CAL BLANK	1	003CALB.d	Pass		1		ICPMS		1
4	8/21/2024 08:44:13	CalStd	STANDARD 1	101	004CAL.S.d	Pass		1		ICPMS		2
5	8/21/2024 08:46:46	CalStd	STANDARD 2	102	005CAL.S.d	Pass		1		ICPMS		3
6	8/21/2024 08:49:18	CalStd	STANDARD 3	5	006CAL.S.d	Pass		1		ICPMS		4
7	8/21/2024 08:51:53	CalStd	STANDARD 4	5	007CAL.S.d	Pass		1		ICPMS		5
8	8/21/2024 08:54:27	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													
5													
6			20	1	1	20							
7			4	1	1	4							
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	8/21/2024 08:56:41	CalStd	STANDARD 6	106	009CAL.S.d	Pass		1		ICPMS		7
10	8/21/2024 08:58:45	CalStd	STANDARD 7	107	010CAL.S.d	Pass		1		ICPMS		8
11	8/21/2024 09:00:45	Sample	Wash	6	011SMPL.d	Pass		1		ICPMS		
12	8/21/2024 09:03:18	CalStd	STANDARD 2	102	012CAL.S.d	Pass		1		ICPMS		3
13	8/21/2024 09:05:51	Sample	Wash	6	013SMPL.d	Pass		1		ICPMS		
14	8/21/2024 09:08:24	ICB	ICB	1	014_ICB.d	Pass		1		ICPMS		
15	8/21/2024 09:10:57	ICV	ICV	111	015_ICV.d	Fail	QC check failed.	1		ICPMS		
16	8/21/2024 09:13:10	Sample	Wash	6	016SMPL.d	Pass		1		ICPMS		
18	8/21/2024 09:15:28	Sample	LDR	110		Skip				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													
18													

#	QC Failed Criteria	QC Failed Elements
9		
10		
11		
12		
13		
14		
15	Main Error1 Criteria1	#2:[Pb]
16		
18		

# Batch Log

#	Acq. Date-Time	Sample Type	Sample Name	Vial#	File Name	Acquisition Result	Error Message	Dilution Result	Comment	Operator	Replicates	Level
17	8/21/2024 09:15:43	Sample	ICSA	112	017SMPL.d	Fail	QC check failed.	1		ICPMS		
19	8/21/2024 09:18:06	Sample	Wash	6	018SMPL.d	Pass		1		ICPMS		
20	8/21/2024 09:17:51					Skip				ICPMS		
21	8/21/2024 09:20:40	Sample	MB-44925	201	019SMPL.d	Pass		1		ICPMS		
22	8/21/2024 09:23:13	LCS	LCS-44925	202	020_LCS.d	Fail	QC check failed.	1		ICPMS		
23	8/21/2024 09:25:26	Sample	2408201-001A	203	021SMPL.d	Fail	QC check failed.	1		ICPMS		
24	8/21/2024 09:27:44	Sample	2408201-001ADUP	204	022SMPL.d	Fail	QC check failed.	1		ICPMS		
25	8/21/2024 09:29:47	<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													
19													
20													
21													
22													
23													
24													
25													

#	QC Failed Criteria	QC Failed Elements
17	Main Error1 Criteria1	#2:Fe,Ca,Na
19		
20		
21		
22	Main Error1 Criteria1	#2:Hg
23	Main Error1 Criteria1	#1:B #2:Na,K,Zn
24	Main Error1 Criteria1	#1:B #2:Na,K,Zn
25		



# Batch Log

#	Acq. Date-Time	Sample Type	Sample Name	Vial#	File Name	Acquisition Result	Error Message	Dilution Result	Comment	Operator	Replicates	Level
26	8/21/2024 09:30:22	Sample	2408201-001AMS	205	023SMPL.d	Fail	QC check failed.	1		ICPMS		
27	8/21/2024 09:30:08	CCV	CCV	5		Skip				ICPMS		
28	8/21/2024 09:30:08	CCB	CCB	1		Skip				ICPMS		
29	8/21/2024 09:32:31	Sample	wash	6	024SMPL.d	Pass		1		ICPMS		
30	8/21/2024 09:34:49	<Pause>				Pass				ICPMS		
31	8/21/2024 09:37:09	Sample	2408201-001A	203	025SMPL.d	Fail	QC check failed.	1		ICPMS		
32	8/21/2024 09:39:35	Sample	2408240-001B	206	026SMPL.d	Fail		1		ICPMS		
33	8/21/2024 09:41:57	Sample	2408254-001A	207	027SMPL.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			10										
32													
33													

#	QC Failed Criteria	QC Failed Elements
26	Main Error1 Criteria1	#1:B #2:Na,K,Zn
27		
28		
29		
30		
31	Main Error1 Criteria1	#2:Na
32		
33	Main Error1 Criteria1	#1:B #2:Ca,Ni,Zn

# Batch Log

#	Acq. Date-Time	Sample Type	Sample Name	Vial#	File Name	Acquisition Result	Error Message	Dilution Result	Comment	Operator	Replicates	Level
34	8/21/2024 09:43:52	<Pause>				Pass				ICPMS		
35	8/21/2024 09:44:57	Sample	wash	6	028SMPL.d	Pass		1		ICPMS		
36	8/21/2024 09:47:28	CCV	CCV	5	029_CCV.d	Fail	QC check failed.	1		ICPMS		
37	8/21/2024 09:49:41	CCB	CCB	1	030_CCB.d	Pass		1		ICPMS		
38	8/21/2024 09:52:13	Sample	wash	6	031SMPL.d	Pass		1		ICPMS		
39	8/21/2024 09:54:31	<Pause>				Pass				ICPMS		
40	8/21/2024 09:55:25	Sample	trurinse	160	032SMPL.d	Pass		1		ICPMS		
41	8/21/2024 09:57:59	Sample	trurinse	160	033SMPL.d	Pass		1		ICPMS		
42	8/21/2024 10:00:32	Sample	wash	6	034SMPL.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													
42													

#	QC Failed Criteria	QC Failed Elements
34		
35		
36	Main Error1 Criteria1	#2:Na,Ba,[Pb], [Pb]
37		
38		
39		
40		
41		

# Batch Log

#	QC Failed Criteria	QC Failed Elements
42		

#	Acq. Date-Time	Sample Type	Sample Name	Vial#	File Name	Acquisition Result	Error Message	Dilution Result	Comment	Operator	Replicates	Level
43	8/21/2024 10:03:06	Sample	wash	6	035SMPL.d	Pass		1		ICPMS		
44	8/21/2024 10:05:40	Sample	wash	6	036SMPL.d	Pass		1		ICPMS		
45	8/21/2024 10:08:13	Sample	wash	6	037SMPL.d	Pass		1		ICPMS		
46	8/21/2024 10:10:46	Sample	wash	6	038SMPL.d	Pass		1		ICPMS		
47	8/21/2024 10:13:19	Sample	trurinse	160	039SMPL.d	Pass		1		ICPMS		
48	8/21/2024 10:15:53	Sample	trurinse	160	040SMPL.d	Fail	QC check failed.	1		ICPMS		
49	8/21/2024 10:15:38	CCV	CCV	5		Skip				ICPMS		
50	8/21/2024 10:15:38	CCB	CCB	1		Skip				ICPMS		
51	8/21/2024 10:18:26	Sample	wash	6	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
43													
44													
45													
46													
47													
48													
49													
50													
51													

#	QC Failed Criteria	QC Failed Elements
43		
44		
45		
46		
47		
48	ISTD Criteria1	#1:Li

# Batch Log

#	QC Failed Criteria	QC Failed Elements
49		
50		
51	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
52	8/21/2024 10:21:00	Sample	wash	6	042SMPL.d	Pass		1		ICPMS		
53	8/21/2024 10:23:34	CCV	CCV	5	043_CCV.d	Fail	QC check failed.	1		ICPMS		
54	8/21/2024 10:25:49	CCB	CCB	1	044_CCB.d	Pass		1		ICPMS		
55	8/21/2024 10:28:07	<Pause>				Pass				ICPMS		
56	8/21/2024 10:29:26	CCV	CCV	5	045_CCV.d	Fail	QC check failed.	1		ICPMS		
57	8/21/2024 10:31:27	<Pause>				Pass				ICPMS		
58	8/21/2024 10:32:05	CCV	CCV	5	046_CCV.d	Fail	QC check failed.	1		ICPMS		
59	8/21/2024 10:34:05	<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
52													
53													
54													
55													
56													
57													
58													
59													

#	QC Failed Criteria	QC Failed Elements
52		
53	Main Error1 Criteria1	#1:Be,B #2:Na,Cr,Cu,Ba
54		
55		
56	Main Error1 Criteria1	#1:Be,B #2:Na,Cr,Ba
57		
58	Main Error1 Criteria1	#1:Be,B #2:Na,Co,Cu
59		

# Batch Log

#	Acq. Date-Time	Sample Type	Sample Name	Vial#	File Name	Acquisition Result	Error Message	Dilution Result	Comment	Operator	Replicates	Level
60	8/21/2024 10:35:09	CCB	CCB	1	047_CCB.d	Pass		1		ICPMS		
61	8/21/2024 10:37:43	Sample	MB-44925	201	048SMPL.d	Pass		1		ICPMS		
62	8/21/2024 10:40:16	Sample	2408254-001A	207	049SMPL.d	Pass		1		ICPMS		
63	8/21/2024 10:42:45	Sample	2408285-001A	208	050SMPL.d	Fail	QC check failed.	1		ICPMS		
64	8/21/2024 10:45:17	Sample	2408292-001D	209	051SMPL.d	Fail	QC check failed.	1		ICPMS		
65	8/21/2024 10:47:40	Sample	2408296-001A	210	052SMPL.d	Fail	QC check failed.	1		ICPMS		
66	8/21/2024 10:50:07	Sample	2408305-001B	212	053SMPL.d	Fail	QC check failed.	1		ICPMS		
67	8/21/2024 10:52:23	Sample	2408305-002B	213	054SMPL.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
60													
61													
62			200										
63			20										
64													
65			10										
66													
67													

#	QC Failed Criteria	QC Failed Elements
60		
61		
62		
63	Main Error1 Criteria1	#2:Na
64	Main Error1 Criteria1	#1:B #2 :Ca,Na,Mg,K,S r
65	Main Error1 Criteria1	#2:Na
66	ISTD Criteria1	#1:Li

# Batch Log

#	QC Failed Criteria	QC Failed Elements
67	Main Error1 Criteria1	#2:Ca,Na

# Batch Log

#	Acq. Date-Time	Sample Type	Sample Name	Vial#	File Name	Acquisition Result	Error Message	Dilution Result	Comment	Operator	Replicates	Level
68	8/21/2024 10:54:47	Sample	2408306-001D	214	055SMPL.d	Fail	QC check failed.	1		ICPMS		
69	8/21/2024 10:57:13	Sample	2408263-004A	215	056SMPL.d	Fail	QC check failed.	1		ICPMS		
70	8/21/2024 10:59:34	Sample	2408263-005A	216	057SMPL.d	Fail	QC check failed.	1		ICPMS		
71	8/21/2024 10:59:19	CCV	CCV	5		Skip				ICPMS		
72	8/21/2024 10:59:19	CCB	CCB	1		Skip				ICPMS		
73	8/21/2024 11:01:56	CCV	CCV	5	058_CCV.d	Fail	QC check failed.	1		ICPMS		
74	8/21/2024 11:04:10	CCB	CCB	1	059_CCB.d	Pass		1		ICPMS		
75	8/21/2024 11:06:43	CCV	CCV	5	060_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
68													
69													
70													
71													
72													
73													
74													
75													

#	QC Failed Criteria	QC Failed Elements
68	Main Error1 Criteria1	#2:Ca
69	Main Error1 Criteria1	#2:Ca,Na,Mg
70	Main Error1 Criteria1	#2:Ca,Na,Mg
71		
72		
73	Main Error1 Criteria1	#1:Be,B #2:Na,Ba
74		
75	Main Error1 Criteria1	#2:Na,Co,[Pb], [Pb]



# Batch Log

#	Acq. Date-Time	Sample Type	Sample Name	Vial#	File Name	Acquisition Result	Error Message	Dilution Result	Comment	Operator	Replicates	Level
76	8/21/2024 11:08:57	CCV	CCV	5	061_CCV.d	Fail	QC check failed.	1		ICPMS		
77	8/21/2024 11:11:11	Sample	2408263-005A	217	062SMPL.d	Fail	QC check failed.	1		ICPMS		
78	8/21/2024 11:13:36	Sample	2408264-001A	218	063SMPL.d	Fail	QC check failed.	1		ICPMS		
79	8/21/2024 11:16:07	Sample	2408264-002A	219	064SMPL.d	Fail	QC check failed.	1		ICPMS		
80	8/21/2024 11:18:38	Sample	2408264-003A	220	065SMPL.d	Fail	QC check failed.	1		ICPMS		
81	8/21/2024 11:21:07	Sample	2408264-004A	221	066SMPL.d	Fail	QC check failed.	1		ICPMS		
82	8/21/2024 11:23:40	Sample	2408270-001C	222	067SMPL.d	Fail	QC check failed.	1		ICPMS		
83	8/21/2024 11:26:02	Sample	2408270-001CMS	223	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
76													
77													
78													
79													
80													
81													
82													
83													

#	QC Failed Criteria	QC Failed Elements
76	Main Error1 Criteria1	#2:Na,Ba
77	Main Error1 Criteria1	#2 :Ca,Na,Mg,K
78	ISTD Criteria1	#1:Li
79	ISTD Criteria1	#1:Li
80	ISTD Criteria1	#1:Li
81	ISTD Criteria1	#1:Li

# Batch Log

#	QC Failed Criteria	QC Failed Elements
82	Main Error1 Criteria1	#2 :Ca,Na,Mg,K
83	Main Error1 Criteria1	#1:B #2 :Ca,Na,Mg,K

# Batch Log

#	Acq. Date-Time	Sample Type	Sample Name	Vial#	File Name	Acquisition Result	Error Message	Dilution Result	Comment	Operator	Replicates	Level
84	8/21/2024 11:27:57	<Pause>				Pass				ICPMS		
85	8/21/2024 11:35:21	Sample	2408263-004A	215	069SMPL.d	Fail	QC check failed.	1		ICPMS		
86	8/21/2024 11:37:47	Sample	2408263-005A	216	070SMPL.d	Fail	QC check failed.	1		ICPMS		
87	8/21/2024 11:40:13	CCV	CCV	5	071_CCV.d	Fail	QC check failed.	1		ICPMS		
88	8/21/2024 11:42:26	CCB	CCB	1	072_CCB.d	Pass		1		ICPMS		
89	8/21/2024 11:44:43	<Pause>				Pass				ICPMS		
90	8/21/2024 12:44:48	Sample	MB-44933	224	073SMPL.d	Pass		1		ICPMS		
91	8/21/2024 12:47:21	LCS	LCS-44933	225	074_LCS.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
84													
85			2	1	1	2							
86			2	1	1	2							
87													
88													
89													
90													
91													

#	QC Failed Criteria	QC Failed Elements
84		
85	Main Error1 Criteria1	#2:Ca,Na,Mg
86	Main Error1 Criteria1	#2:Ca,Na,Mg
87	Main Error1 Criteria1	#2:Na
88		
89		
90		
91	Main Error1 Criteria1	#1:B #2 :Fe,Ca,Na,Mg, K,Cr,Al,P

# Batch Log

#	Acq. Date-Time	Sample Type	Sample Name	Vial#	File Name	Acquisition Result	Error Message	Dilution Result	Comment	Operator	Replicates	Level
92	8/21/2024 12:49:41	Sample	2408309-001A	226	075SMPL.d	Fail	QC check failed.	1		ICPMS		
93	8/21/2024 12:52:06	Sample	2408309-001AMS	227	076SMPL.d	Fail	QC check failed.	1		ICPMS		
94	8/21/2024 12:54:17	Sample	2408309-001AMSD	228	077SMPL.d	Fail	QC check failed.	1		ICPMS		
95	8/21/2024 12:56:28	Sample	2408309-001AMSDIL	227	078SMPL.d	Pass		1		ICPMS		
96	8/21/2024 12:58:57	Sample	2408309-001APDS	229	079SMPL.d	Fail	QC check failed.	1		ICPMS		
97	8/21/2024 13:01:08	Sample	2408311-001A	230	080SMPL.d	Fail	QC check failed.	1		ICPMS		
98	8/21/2024 13:03:22	Sample	2408311-002A	231	081SMPL.d	Fail	QC check failed.	1		ICPMS		
100	8/21/2024 13:05:16	CCV	CCV	5		Skip				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
92													
93													
94													
95			5	1	1	5							
96													
97													
98													
100													

#	QC Failed Criteria	QC Failed Elements
92	Main Error1 Criteria1	#2:Fe,Al
93	Main Error1 Criteria1	#2:Fe,Al,Ti
94	Main Error1 Criteria1	#2:Fe,Al
95		
96	Main Error1 Criteria1	#2:Fe,Al,Ti
97	Main Error1 Criteria1	#2:Fe,Zn,Al,Ti
98	Main Error1 Criteria1	#2:Fe,Mn,Cu,Zn
100		

# Batch Log

#	Acq. Date-Time	Sample Type	Sample Name	Vial#	File Name	Acquisition Result	Error Message	Dilution Result	Comment	Operator	Replicates	Level
99	8/21/2024 13:05:31	Sample	2408311-003A	232	082SMPL.d	Fail	QC check failed.	1		ICPMS		
101	8/21/2024 13:05:16	CCB	CCB	1		Skip				ICPMS		
102	8/21/2024 13:07:39	CCV	CCV	5	083_CCV.d	Fail	QC check failed.	1		ICPMS		
103	8/21/2024 13:09:54	CCB	CCB	1	084_CCB.d	Pass		1		ICPMS		
104	8/21/2024 13:12:32	Sample	2408315-001A	233	085SMPL.d	Fail	QC check failed.	1		ICPMS		
105	8/21/2024 13:14:52	Sample	2408315-002A	234	086SMPL.d	Pass		1		ICPMS		
106	8/21/2024 13:17:17	Sample	2408315-003A	235	087SMPL.d	Fail	QC check failed.	1		ICPMS		
107	8/21/2024 13:19:38	Sample	2408315-004A	236	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
99													
101													
102													
103													
104													
105													
106													
107													

#	QC Failed Criteria	QC Failed Elements
99	Main Error1 Criteria1	#2:Fe,Cu,Zn,[Pb],[Pb],Pb,Al
101		
102	Main Error1 Criteria1	#2:Co,U
103		
104	Main Error1 Criteria1	#2:Fe,Al,Ti
105		
106	Main Error1 Criteria1	#2:Fe,Al,Ti
107	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
108	8/21/2024 13:22:02	Sample	2408315-005A	237	089SMPL.d	Fail	QC check failed.	1		ICPMS		
109	8/21/2024 13:24:23	Sample	2408315-006A	238	090SMPL.d	Fail	QC check failed.	1		ICPMS		
110	8/21/2024 13:26:42	Sample	2408315-007A	239	091SMPL.d	Fail		1		ICPMS		
111	8/21/2024 13:28:49	<Pause>				Pass				ICPMS		
112	8/21/2024 13:29:14	Sample	2408311-003A	232	092SMPL.d	Pass		1		ICPMS		
113	8/21/2024 13:31:36	Sample	2408311-002A	231	093SMPL.d	Fail		1		ICPMS		
115	8/21/2024 13:33:49	CCV	CCV	5		Skip				ICPMS		
116	8/21/2024 13:33:49	CCB	CCB	1		Skip				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
108													
109													
110													
111													
112			10										
113			10	1	1	10							
115													
116													

#	QC Failed Criteria	QC Failed Elements
108	Main Error1 Criteria1	#2:Fe,Al,Ti
109	Main Error1 Criteria1	#2:Fe,Al
110		
111		
112		
113		
115		
116		

# Batch Log

#	Acq. Date-Time	Sample Type	Sample Name	Vial#	File Name	Acquisition Result	Error Message	Dilution Result	Comment	Operator	Replicates	Level
114	8/21/2024 13:34:04	Sample	2408311-001A	230	094SMPL.d	Pass		1		ICPMS		
117	8/21/2024 13:36:36	CCV	CCV	5	095_CCV.d	Pass		1		ICPMS		
118	8/21/2024 13:38:50	CCB	CCB	1	096_CCB.d	Pass		1		ICPMS		
119	8/21/2024 13:41:23	Sample	MB-44907	240	097SMPL.d	Pass		1		ICPMS		
120	8/21/2024 13:43:56	Sample	LCS-44907	241	098SMPL.d	Pass		1		ICPMS		
121	8/21/2024 13:46:09	Sample	2408263-001B	242	099SMPL.d	Fail	QC check failed.	1		ICPMS		
122	8/21/2024 13:48:31	Sample	2408263-001BDUP	243	100SMPL.d	Fail	QC check failed.	1		ICPMS		
123	8/21/2024 13:50:38	<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
114			10	1	1	10							
117													
118													
119													
120													
121													
122													
123													

#	QC Failed Criteria	QC Failed Elements
114		
117		
118		
119		
120		
121	Main Error1 Criteria1	#2:Ca,Na,Mg
122	Main Error1 Criteria1	#2:Ca,Na,Mg
123		

# Batch Log

#	Acq. Date-Time	Sample Type	Sample Name	Vial#	File Name	Acquisition Result	Error Message	Dilution Result	Comment	Operator	Replicates	Level
124	8/21/2024 13:50:59	Sample	2408263-001BMS	244	101SMPL.d	Fail	QC check failed.	1		ICPMS		
125	8/21/2024 13:53:08	Sample	2408263-002B	245	102SMPL.d	Fail	QC check failed.	1		ICPMS		
126	8/21/2024 13:55:28	Sample	2408263-003B	246	103SMPL.d	Fail	QC check failed.	1		ICPMS		
127	8/21/2024 13:57:50	Sample	2408263-004B	247	104SMPL.d	Fail	QC check failed.	1		ICPMS		
128	8/21/2024 14:00:10	Sample	2408263-005B	248	105SMPL.d	Fail	QC check failed.	1		ICPMS		
129	8/21/2024 14:02:31	Sample	2408263-006B	249	106SMPL.d	Fail	QC check failed.	1		ICPMS		
130	8/21/2024 14:02:16	CCV	CCV	5		Skip				ICPMS		
131	8/21/2024 14:02:16	CCB	CCB	1		Skip				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
124													
125													
126													
127													
128													
129													
130													
131													

#	QC Failed Criteria	QC Failed Elements
124	Main Error1 Criteria1	#2:Ca,Na,Mg
125	Main Error1 Criteria1	#2:Ca,Na,Mg
126	Main Error1 Criteria1	#2:Ca,Na,Mg
127	Main Error1 Criteria1	#2:Ca,Na,Mg
128	Main Error1 Criteria1	#2:Ca,Na,Mg
129	Main Error1 Criteria1	#2:Ca,Na,Mg,K
130		
131		



# Batch Log

#	Acq. Date-Time	Sample Type	Sample Name	Vial#	File Name	Acquisition Result	Error Message	Dilution Result	Comment	Operator	Replicates	Level
132	8/21/2024 14:04:56	CCV	CCV	5	107_CCV.d	Fail	QC check failed.	1		ICPMS		
133	8/21/2024 14:07:12	CCB	CCB	1	108_CCB.d	Pass		1		ICPMS		
134	8/21/2024 14:09:45	Sample	2408263-006BMS	250	109SMPL.d	Fail	QC check failed.	1		ICPMS		
135	8/21/2024 14:11:55	Sample	WASH	6	110SMPL.d	Pass		1		ICPMS		
136	8/21/2024 14:14:28	Sample	MB-44939	401	111SMPL.d	Pass		1		ICPMS		
137	8/21/2024 14:17:01	LCS	LCS-44939	402	112_LCS.d	Fail	QC check failed.	1		ICPMS		
138	8/21/2024 14:19:14	Sample	2408246-001C	403	113SMPL.d	Fail	QC check failed.	1		ICPMS		
139	8/21/2024 14:21:35	Sample	2408246-001CDUP	404	114SMPL.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
132													
133													
134													
135													
136													
137													
138													
139													

#	QC Failed Criteria	QC Failed Elements
132	Main Error1 Criteria1	#2:Na,Cr
133		
134	Main Error1 Criteria1	#2 :Ca,Na,Mg,K
135		
136		
137	Main Error1 Criteria1	#1:Be #2 :V,Cr,Mn,Co,Cu,Sr,Hg

# Batch Log

#	QC Failed Criteria	QC Failed Elements
138	Main Error1 Criteria1	#2 :Ca,Na,Mg,K,Mn
139	Main Error1 Criteria1	#2 :Ca,Na,Mg,K,Mn

#	Acq. Date-Time	Sample Type	Sample Name	Vial#	File Name	Acquisition Result	Error Message	Dilution Result	Comment	Operator	Replicates	Level
140	8/21/2024 14:23:57	Sample	2408246-001CMS	405	115SMPL.d	Fail	QC check failed.	1		ICPMS		
141	8/21/2024 14:26:09	Sample	2408246-001CMSDIL	405	116SMPL.d	Pass		1		ICPMS		
142	8/21/2024 14:28:35	Sample	2408246-002C	406	117SMPL.d	Fail	QC check failed.	1		ICPMS		
143	8/21/2024 14:30:58	Sample	2408246-003C	407	118SMPL.d	Fail	QC check failed.	1		ICPMS		
144	8/21/2024 14:30:43	CCV	CCV	5		Skip				ICPMS		
145	8/21/2024 14:30:43	CCB	CCB	1		Skip				ICPMS		
146	8/21/2024 14:33:21	CCV	CCV	5	119_CCV.d	Fail	QC check failed.	1		ICPMS		
147	8/21/2024 14:35:36	CCB	CCB	1	120_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
140													
141			5	1	1	5							
142													
143													
144													
145													
146													
147													

#	QC Failed Criteria	QC Failed Elements
140	Main Error1 Criteria1	#2 :Ca,Na,Mg,K,Mn
141		

# Batch Log

#	QC Failed Criteria	QC Failed Elements
142	Main Error1 Criteria1	#2 :Fe,Ca,Na,Mg, Mn
143	Main Error1 Criteria1	#2 :Ca,Na,Mg,K
144		
145		
146	Main Error1 Criteria1	#2:Co
147		

#	Acq. Date-Time	Sample Type	Sample Name	Vial#	File Name	Acquisition Result	Error Message	Dilution Result	Comment	Operator	Replicates	Level
148	8/21/2024 14:38:08	Sample	2408246-004C	408	121SMPL.d	Fail	QC check failed.	1		ICPMS		
149	8/21/2024 14:40:32	Sample	2408246-005C	409	122SMPL.d	Fail	QC check failed.	1		ICPMS		
150	8/21/2024 14:42:55	Sample	2408246-006C	410	123SMPL.d	Fail	QC check failed.	1		ICPMS		
151	8/21/2024 14:45:17	Sample	2408246-007C	411	124SMPL.d	Fail		1		ICPMS		
152	8/21/2024 14:47:39	Sample	2408246-008C	412	125SMPL.d	Fail	QC check failed.	1		ICPMS		
153	8/21/2024 14:50:01	Sample	2408247-001C	413	126SMPL.d	Fail	QC check failed.	1		ICPMS		
154	8/21/2024 14:52:23	Sample	2408247-002C	414	127SMPL.d	Fail	QC check failed.	1		ICPMS		
155	8/21/2024 14:54:44	Sample	2408247-002CMS	415	128SMPL.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
148													
149													
150													
151													
152													
153													
154													
155													

# Batch Log

#	QC Failed Criteria	QC Failed Elements
148	Main Error1 Criteria1	#2 :Ca,Na,Mg,K
149	Main Error1 Criteria1	#2:Ca,Na
150	Main Error1 Criteria1	#2 :Ca,Na,Mg,K, Mn
151		
152	Main Error1 Criteria1	#2 :Ca,Na,Mg,K, Mn
153	Main Error1 Criteria1	#1:B #2:Ca,Mg,K,Sr
154	Main Error1 Criteria1	#2 :Fe,Ca,Mg,K,Sr
155	Main Error1 Criteria1	#1:B #2 :Fe,Ca,Mg,K,Sr

#	Acq. Date-Time	Sample Type	Sample Name	Vial#	File Name	Acquisition Result	Error Message	Dilution Result	Comment	Operator	Replicates	Level
156	8/21/2024 14:57:01	Sample	2408247-002CMSD	416	129SMPL.d	Fail		1		ICPMS		
157	8/21/2024 14:59:16	Sample	2408247-003C	417	130SMPL.d	Fail	QC check failed.	1		ICPMS		
158	8/21/2024 14:59:01	CCV	CCV	5		Skip				ICPMS		
159	8/21/2024 14:59:01	CCB	CCB	1		Skip				ICPMS		
160	8/21/2024 15:01:37	CCV	CCV	5	131_CCV.d	Fail	QC check failed.	1		ICPMS		
161	8/21/2024 15:03:49	CCB	CCB	1	132_CCB.d	Fail	QC check failed.	1		ICPMS		
162	8/21/2024 15:06:20	Sample	2408247-004C	418	133SMPL.d	Fail	QC check failed.	1		ICPMS		
163	8/21/2024 15:08:41	Sample	2408312-001D	419	134SMPL.d	Fail	QC check failed.	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
156													
157													
158													
159													
160													
161													
162													
163													

#	QC Failed Criteria	QC Failed Elements
156		
157	Main Error1 Criteria1	#1:B #2:Ca,Mg,K,Sr
158		
159		
160	ISTD Criteria1	#1:Li,Sc
161	ISTD Criteria1	#1:Li,Sc
162	Main Error1 Criteria1	#1:B #2:Ca,Mg,K,Mn, Sr
163	ISTD Criteria1	#1:Li,Sc

#	Acq. Date-Time	Sample Type	Sample Name	Vial#	File Name	Acquisition Result	Error Message	Dilution Result	Comment	Operator	Replicates	Level
164	8/21/2024 15:11:05	Sample	2408312-002D	420	135SMPL.d	Fail	QC check failed.	1		ICPMS		
165	8/21/2024 15:13:29	Sample	2408312-003D	421	136SMPL.d	Fail	QC check failed.	1		ICPMS		
166	8/21/2024 15:15:54	Sample	2408312-004D	422	137SMPL.d	Fail	QC check failed.	1		ICPMS		
167	8/21/2024 15:18:18	LCS	LCS-RR	460	138_LCS.d	Fail	QC check failed.	1		ICPMS		
168	8/21/2024 15:20:31	CCV	CCV	5	139_CCV.d	Fail	QC check failed.	1		ICPMS		
169	8/21/2024 15:22:43	CCB	CCB	1	140_CCB.d	Fail	QC check failed.	1		ICPMS		
170	8/21/2024 15:25:15	Sample	LDR	110	141SMPL.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
171	8/21/2024 15:27:05	Sample	trurinse	160	142SMPL.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
164													
165													
166													
167													
168													
169													
170													
171													

#	QC Failed Criteria	QC Failed Elements
164	ISTD Criteria1	#1:Li,Sc
165	ISTD Criteria1	#1:Li
166	ISTD Criteria1	#1:Li
167	ISTD Criteria1	#1:Li
168	ISTD Criteria1	#1:Li
169	ISTD Criteria1	#1:Li
170	Main Error1 Criteria1	#1:B #2 :Fe,Sn,As,Ca, Na,Mg,K,V,Cr, Mn,Co,Ni,Cu,Z n,Sr,Mo,Ba, [Pb], [Pb],Pb,U,Al,H g,Ti,P
171		

# Batch Log

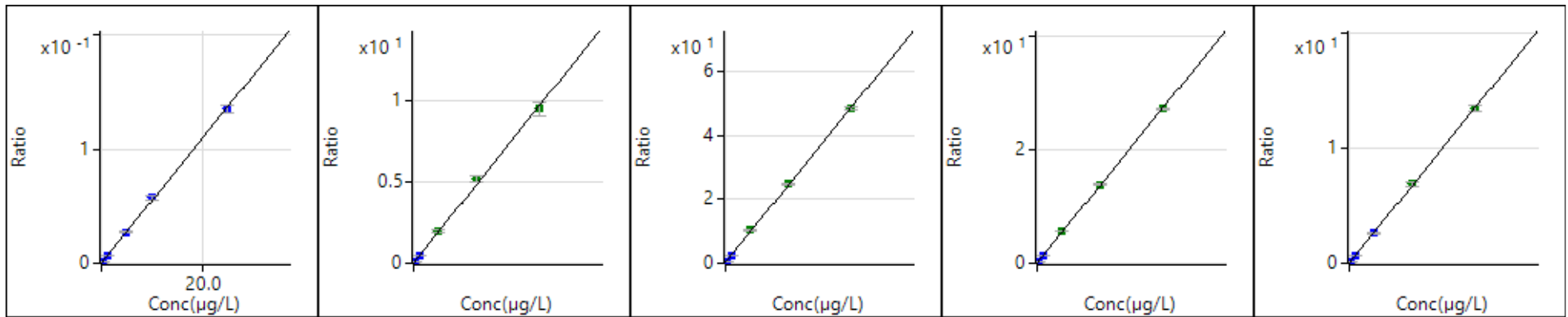
#	Acq. Date-Time	Sample Type	Sample Name	Vial#	File Name	Acquisition Result	Error Message	Dilution Result	Comment	Operator	Replicates	Level
172	8/21/2024 15:29:36	Sample	trurinse	160	143SMPL.d	Pass		1		ICPMS		
173	8/21/2024 15:32:07	Sample	wash	6	144SMPL.d	Pass		1		ICPMS		
174	8/21/2024 15:34:38	Sample	wash	6	145SMPL.d	Pass		1		ICPMS		
175	8/21/2024 15:36:55	<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
172													
173													
174													
175													

#	QC Failed Criteria	QC Failed Elements
172		
173		
174		
175		

# Calibration





9 Be [ No Gas ]

ISTD: 6 Li

$$y = 5.456E-3 x + 2.798E-5$$

R 0.9998

DL 0.0003647

BEC 0.005128

11 B [ No Gas ]

ISTD: 6 Li

$$y = 3.857E-3 x + 1.744E-3$$

R 0.9992

DL 0.1161

BEC 0.4522

23 Na [ He ]

ISTD: 45 Sc

$$y = 9.691E-3 x + 2.478E-1$$

R 0.9999

DL 0.3171

BEC 25.57

24 Mg [ He ]

ISTD: 45 Sc

$$y = 5.466E-3 x + 3.151E-3$$

R 0.9999

DL 0.1378

BEC 0.5765

27 Al [ He ]

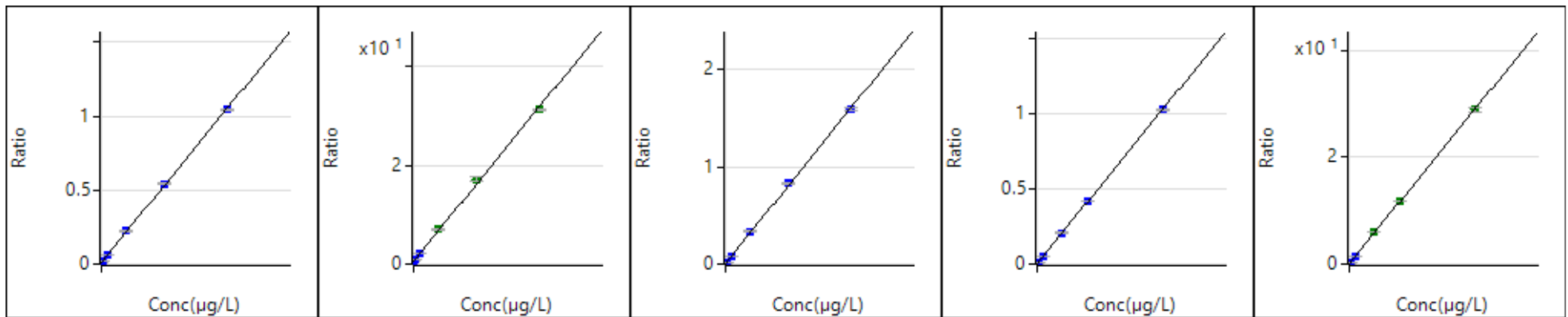
ISTD: 45 Sc

$$y = 2.689E-3 x + 2.552E-3$$

R 0.9999

DL 0.2668

BEC 0.9494



31 P [ He ]

ISTD: 45 Sc

$$y = 2.083E-4 x + 9.797E-3$$

R 0.9999

DL 2.997

BEC 47.03

39 K [ He ]

ISTD: 45 Sc

$$y = 6.245E-3 x + 5.424E-1$$

R 0.9993

DL 6.067

BEC 86.85

44 Ca [ He ]

ISTD: 45 Sc

$$y = 3.205E-4 x + 3.146E-3$$

R 0.9998

DL 0.5501

BEC 9.818

47 Ti [ He ]

ISTD: 45 Sc

$$y = 2.054E-3 x + 4.382E-5$$

R 1.0000

DL 0.01291

BEC 0.02133

51 V [ He ]

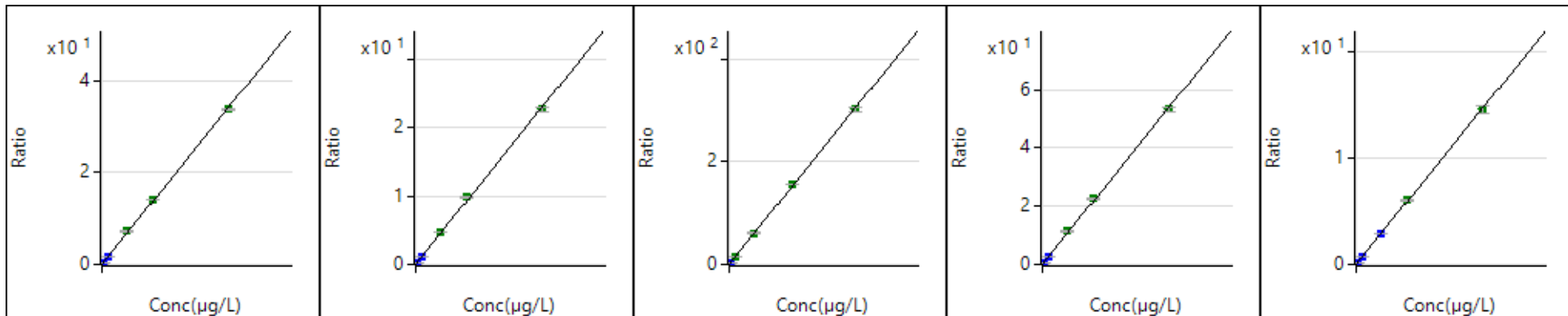
ISTD: 45 Sc

$$y = 5.800E-2 x + 3.004E-2$$

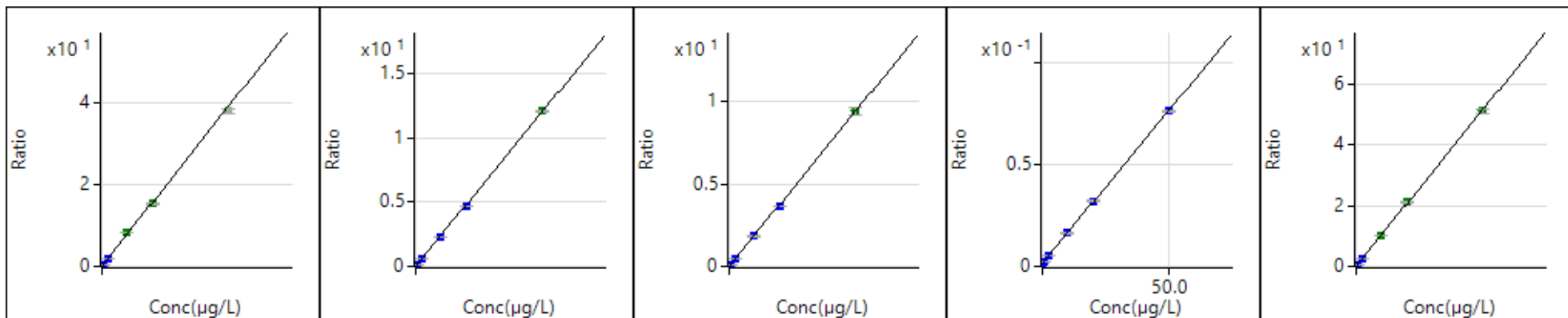
R 1.0000

DL 0.04489

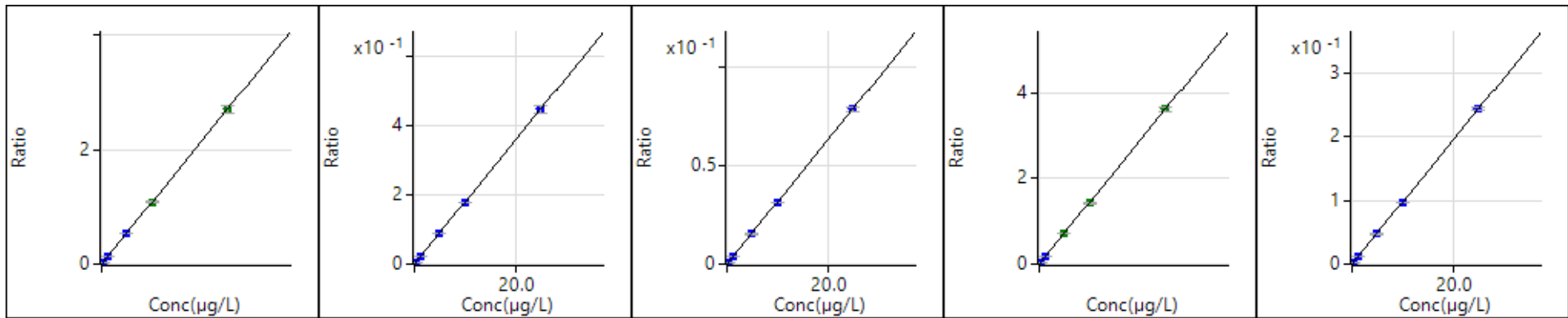
BEC 0.5179



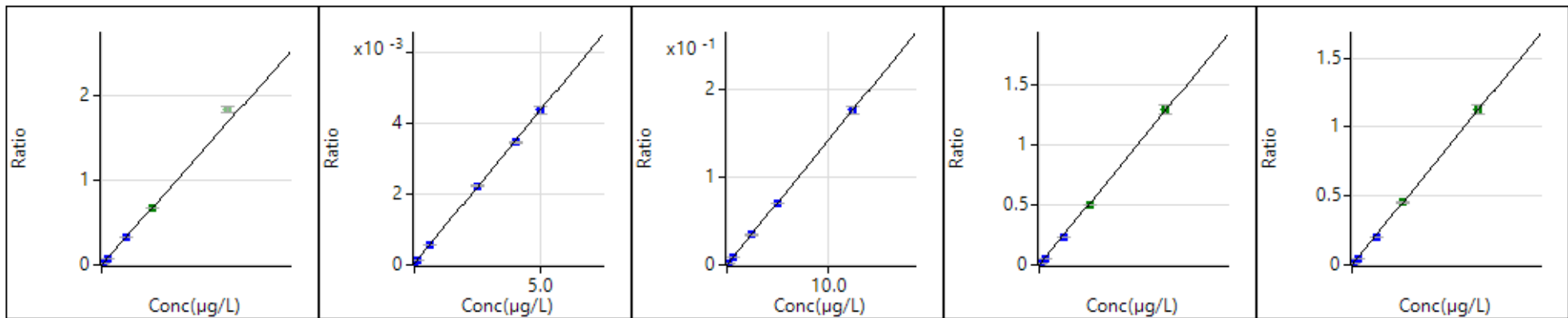
52 Cr [ He ] ISTD: 45 Sc $y = 6.801E-2 x + 4.025E-3$ R 0.9997 DL 0.01343 BEC 0.05918	55 Mn [ He ] ISTD: 45 Sc $y = 4.594E-2 x + 1.183E-3$ R 0.9995 DL 0.01616 BEC 0.02575	56 Fe [ He ] ISTD: 45 Sc $y = 6.086E-2 x + 2.020E-1$ R 0.9999 DL 0.193 BEC 3.319	59 Co [ He ] ISTD: 45 Sc $y = 1.075E-1 x + 8.032E-4$ R 0.9997 DL 0.003338 BEC 0.007471	60 Ni [ He ] ISTD: 45 Sc $y = 2.941E-2 x + 3.201E-4$ R 0.9999 DL 0.003339 BEC 0.01088
---	---	---	---	--



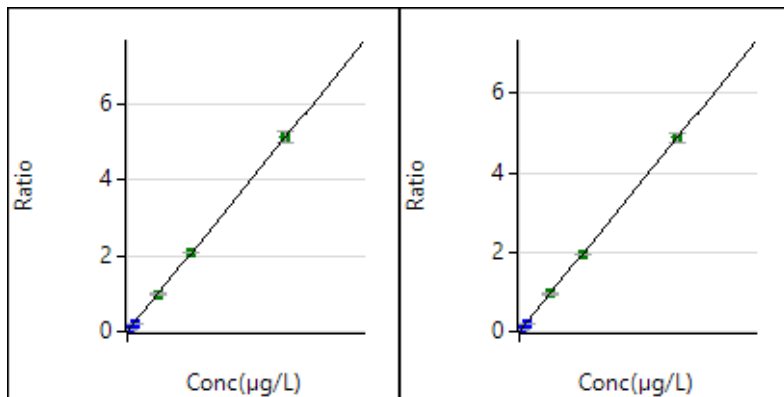
63 Cu [ He ] ISTD: 45 Sc $y = 7.843E-2 x + 1.754E-2$ R 0.9992 DL 0.02105 BEC 0.2236	66 Zn [ He ] ISTD: 72 Ge $y = 2.402E-2 x + 5.422E-3$ R 0.9999 DL 0.02892 BEC 0.2257	75 As [ He ] ISTD: 72 Ge $y = 1.878E-2 x + 1.473E-3$ R 0.9999 DL 0.01558 BEC 0.07842	78 Se [ He ] ISTD: 72 Ge $y = 1.499E-3 x + 1.444E-3$ R 1.0000 DL 0.1462 BEC 0.9638	88 Sr [ He ] ISTD: 72 Ge $y = 1.026E-1 x + 1.439E-3$ R 0.9999 DL 0.009082 BEC 0.01403
--	--	---	---	--



95 Mo [ He ]	107 Ag [ He ]	111 Cd [ He ]	118 Sn [ He ]	121 Sb [ He ]
ISTD: 115 In	ISTD: 115 In	ISTD: 115 In	ISTD: 115 In	ISTD: 115 In
$y = 5.420E-3 x + 1.670E-5$	$y = 1.782E-2 x + 7.138E-5$	$y = 3.147E-3 x + 1.224E-6$	$y = 7.212E-3 x + 4.123E-4$	$y = 9.691E-3 x + 8.594E-5$
R 1.0000	R 1.0000	R 1.0000	R 1.0000	R 1.0000
DL 0.001512	DL 0.002585	DL 0.0003251	DL 0.01994	DL 0.001631
BEC 0.003081	BEC 0.004006	BEC 0.0003889	BEC 0.05717	BEC 0.008868



137 Ba [ He ]	201 Hg [ He ]	205 Tl [ He ]	206 [Pb] [ He ]	207 [Pb] [ He ]
ISTD: 115 In	ISTD: 159 Tb	ISTD: 159 Tb	ISTD: 159 Tb	ISTD: 159 Tb
$y = 3.376E-3 x + 2.862E-5$	$y = 8.650E-4 x + 3.936E-5$	$y = 1.406E-2 x + 3.848E-6$	$y = 5.121E-3 x + 2.377E-4$	$y = 4.485E-3 x + 2.255E-4$
R 0.9999	R 0.9999	R 1.0000	R 0.9997	R 0.9998
DL 0.004536	DL 0.004759	DL 0.0004036	DL 0.009174	DL 0.01208
BEC 0.008477	BEC 0.04551	BEC 0.0002736	BEC 0.04642	BEC 0.05029



208 Pb [ He ]

ISTD: 159 Tb

$$y = 2.038E-2 x + 9.871E-4$$

R 0.9999

DL 0.003294

BEC 0.04844

238 U [ He ]

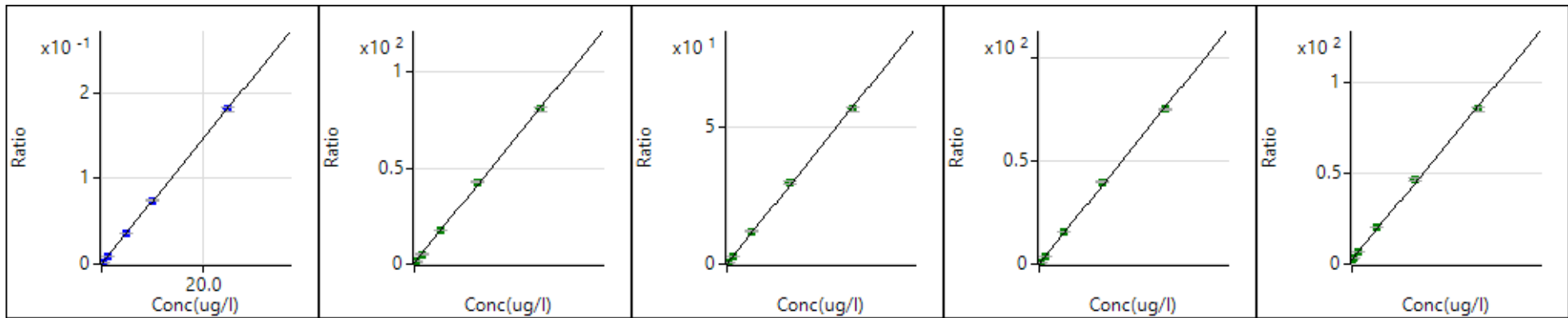
ISTD: 159 Tb

$$y = 9.753E-3 x + 2.003E-6$$

R 1.0000

DL 0.0002624

BEC 0.0002054



9 Be [ No Gas ]

ISTD: 6 Li

$y = 7.266E-3 x + 8.035E-5$

R 1.0000

DL 0.00563

BEC 0.01106

23 Na [ No Gas ]

ISTD: 45 Sc

$y = 1.606E-2 x + 1.130E0$

R 0.9997

DL 2.141

BEC 70.37

24 Mg [ No Gas ]

ISTD: 45 Sc

$y = 1.148E-2 x + 1.135E-2$

R 0.9996

DL 0.0937

BEC 0.9885

27 Al [ No Gas ]

ISTD: 45 Sc

$y = 1.522E-2 x + 1.333E-2$

R 0.9996

DL 0.09012

BEC 0.8759

39 K [ No Gas ]

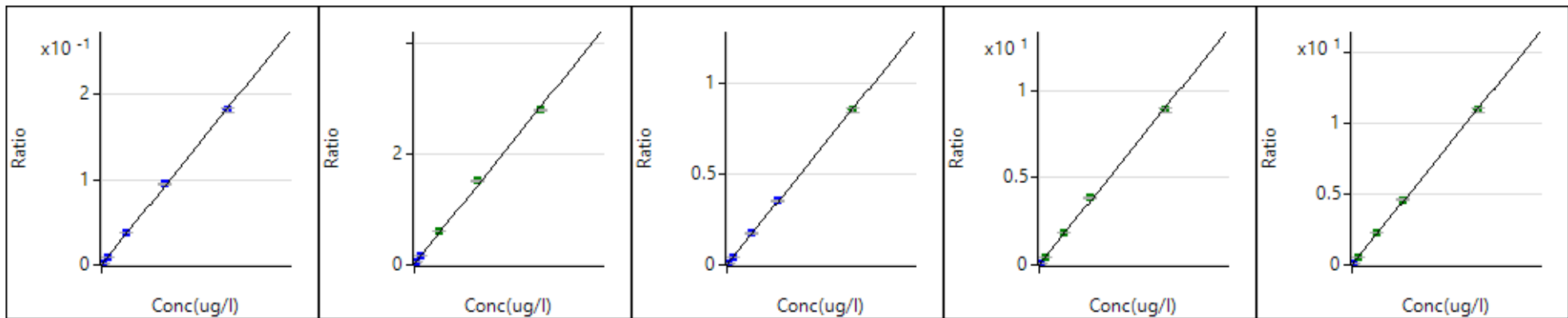
ISTD: 45 Sc

$y = 1.687E-2 x + 2.461E0$

R 0.9994

DL 3.69

BEC 145.9



43 Ca [ No Gas ]

ISTD: 45 Sc

$y = 3.674E-5 x + 2.947E-4$

R 0.9998

DL 1.184

BEC 8.021

44 Ca [ No Gas ]

ISTD: 45 Sc

$y = 5.665E-4 x + 1.489E-2$

R 0.9993

DL 0.7393

BEC 26.29

47 Ti [ No Gas ]

ISTD: 45 Sc

$y = 1.722E-3 x + 7.287E-5$

R 0.9999

DL 0.03923

BEC 0.04231

48 Ti [ No Gas ]

ISTD: 45 Sc

$y = 1.799E-2 x + 1.956E-3$

R 0.9994

DL 0.01007

BEC 0.1088

51 V [ No Gas ]

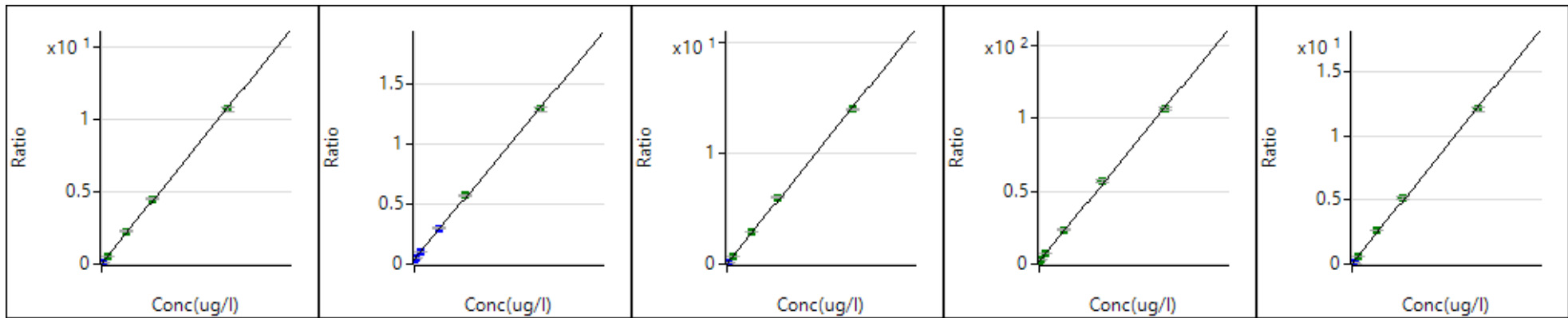
ISTD: 45 Sc

$y = 2.203E-2 x - 1.192E-3$

R 0.9998

DL 0.09437

BEC -0.05413



52 Cr [ No Gas ]

ISTD: 45 Sc  
 $y = 2.153E-2 x + 1.360E-2$   
 R 0.9998  
 DL 0.04467  
 BEC 0.6319

53 [V] [ No Gas ]

ISTD: 45 Sc  
 $y = 2.523E-3 x + 4.171E-2$   
 R 0.9997  
 DL 0.5478  
 BEC 16.53

55 Mn [ No Gas ]

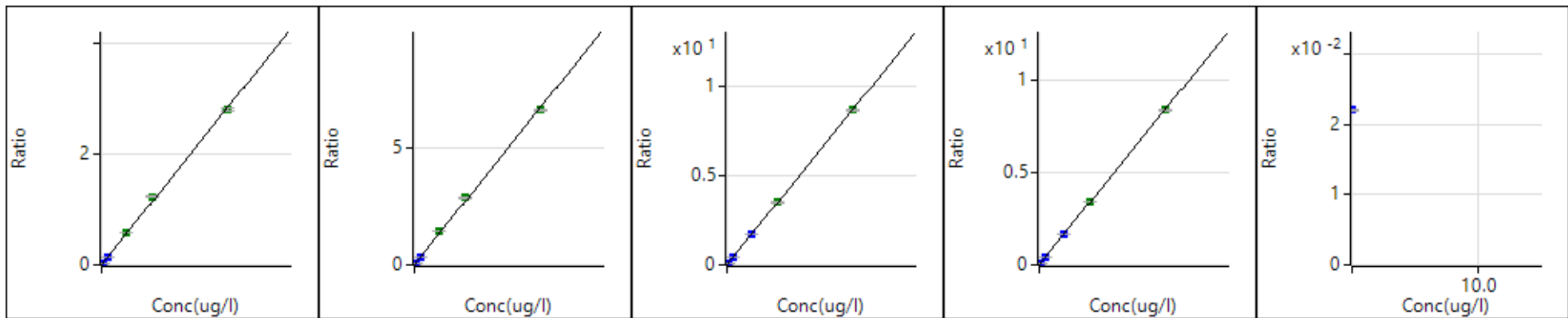
ISTD: 45 Sc  
 $y = 2.834E-2 x + 3.275E-3$   
 R 0.9996  
 DL 0.01121  
 BEC 0.1155

56 Fe [ No Gas ]

ISTD: 45 Sc  
 $y = 2.119E-2 x + 1.691E0$   
 R 0.9996  
 DL 3.538  
 BEC 79.81

59 Co [ No Gas ]

ISTD: 45 Sc  
 $y = 2.442E-2 x + 3.960E-4$   
 R 0.9993  
 DL 0.002605  
 BEC 0.01622



60 Ni [ No Gas ]

ISTD: 45 Sc  
 $y = 5.671E-3 x + 1.900E-4$   
 R 0.9993  
 DL 0.006606  
 BEC 0.0335

63 Cu [ No Gas ]

ISTD: 45 Sc  
 $y = 1.350E-2 x + 6.619E-3$   
 R 0.9993  
 DL 0.01909  
 BEC 0.4902

66 Zn [ No Gas ]

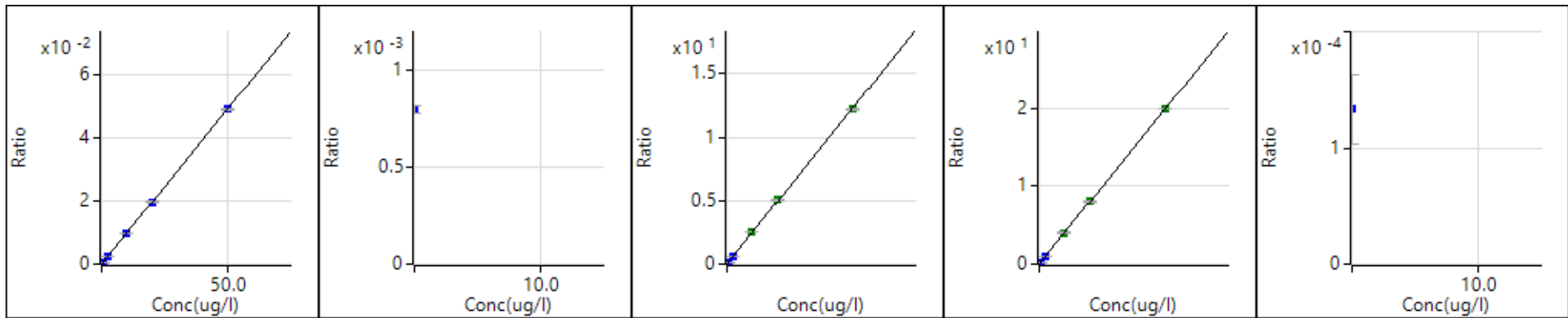
ISTD: 72 Ge  
 $y = 1.743E-2 x + 3.414E-3$   
 R 1.0000  
 DL 0.001766  
 BEC 0.1959

75 As [ No Gas ]

ISTD: 72 Ge  
 $y = 1.676E-2 x - 6.632E-4$   
 R 1.0000  
 DL 0.1759  
 BEC -0.03956

77 [As] [ No Gas ]

ISTD: 72 Ge  
 $y =$   
 R



82 Se [ No Gas ]

ISTD: 72 Ge

$y = 9.825E-4 x - 5.038E-5$

R 1.0000

DL 0.07546

BEC -0.05128

83 [Se] [ No Gas ]

ISTD: 72 Ge

$y =$

R

95 Mo [ No Gas ]

ISTD: 72 Ge

$y = 2.455E-2 x + 1.072E-3$

R 0.9999

DL 0.03202

BEC 0.04364

98 Mo [ No Gas ]

ISTD: 72 Ge

$y = 3.988E-2 x + 1.899E-3$

R 1.0000

DL 0.03557

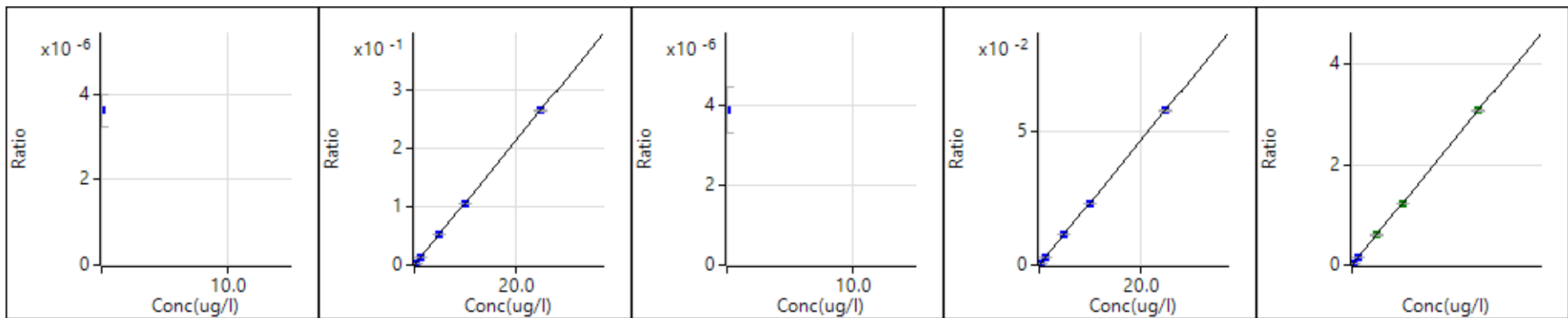
BEC 0.04762

99 Ru [ No Gas ]

ISTD: 72 Ge

$y =$

R



106 [Cd] [ No Gas ]

ISTD: 115 In

$y =$

R

107 Ag [ No Gas ]

ISTD: 115 In

$y = 1.059E-2 x + 3.959E-5$

R 1.0000

DL 0.001003

BEC 0.003739

108 [Cd] [ No Gas ]

ISTD: 115 In

$y =$

R

111 Cd [ No Gas ]

ISTD: 115 In

$y = 2.323E-3 x + 6.349E-7$

R 1.0000

DL 0.001782

BEC 0.0002733

118 Sn [ No Gas ]

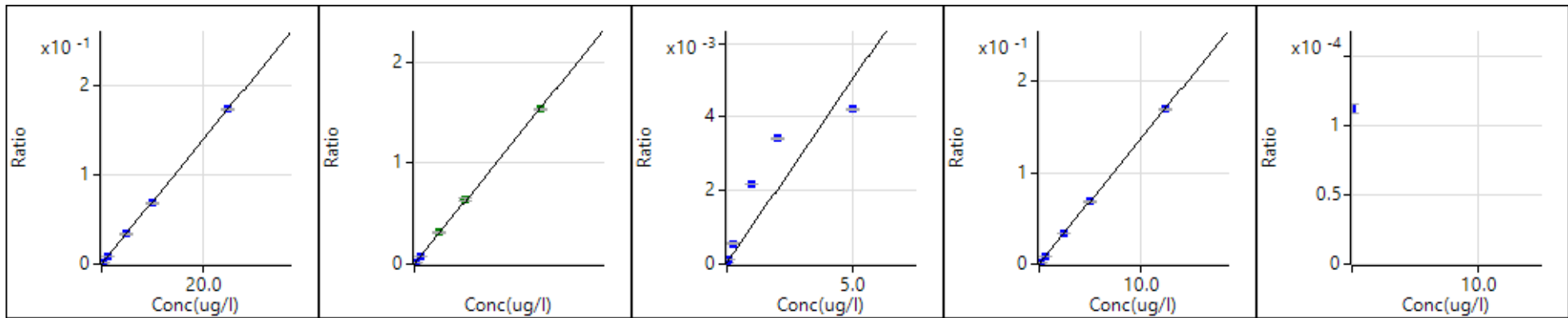
ISTD: 115 In

$y = 6.143E-3 x + 1.071E-3$

R 1.0000

DL 0.1871

BEC 0.1743



123 Sb [ No Gas ]

ISTD: 115 In

$y = 6.914E-3 x + 5.785E-5$

R 1.0000

DL 0.002477

BEC 0.008367

137 Ba [ No Gas ]

ISTD: 115 In

$y = 3.083E-3 x + 4.521E-5$

R 0.9999

DL 0.004904

BEC 0.01466

201 Hg [ No Gas ]

ISTD: 159 Tb

$y = 9.979E-4 x + 2.505E-5$

R 0.9173

DL 0.000991

BEC 0.0251

205 Tl [ No Gas ]

ISTD: 159 Tb

$y = 1.361E-2 x + 7.063E-6$

R 1.0000

DL 0.0001633

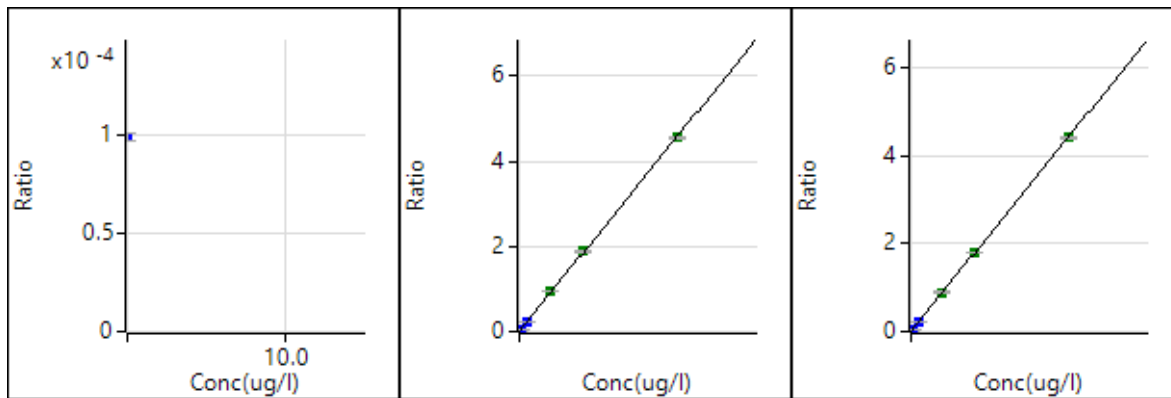
BEC 0.0005188

206 Pb [ No Gas ]

ISTD: 159 Tb

$y =$

R



207 Pb [ No Gas ]

ISTD: 159 Tb

$y =$

R

208 Pb [ No Gas ]

ISTD: 159 Tb

$y = 1.830E-2 x + 4.449E-4$

R 0.9999

DL 0.002397

BEC 0.02432

238 U [ No Gas ]

ISTD: 159 Tb

$y = 8.837E-3 x + 9.951E-5$

R 1.0000

DL 0.003155

BEC 0.01126



# Tunes

# US EPA Tune Check Report

**Operator Name** ICPMS  
**Acq/Data Batch** D:\Agilent\ICPMH\1\DATA\240821ME.b  
**Acq. Date-Time** 8/21/2024 08:36:04  
**Report Comment** ---  
**Instrument Name** G8422A SG22151236

[No Gas]

**Sensitivity**

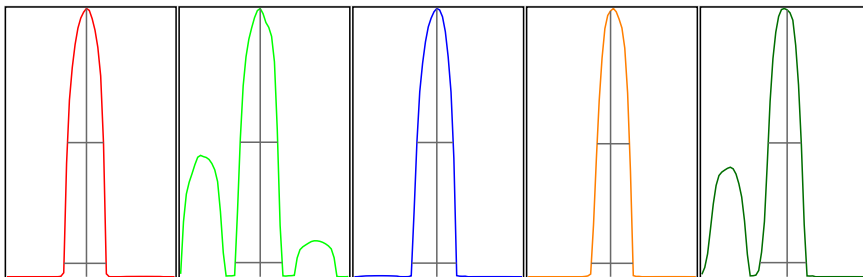
Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/(ug/l)]	Resp (Flag)	RSD%	RSD% (Required)
9	10.00	34545	345448.48			0.715	5.000
24	10.00	175141	1751407.84			1.853	5.000
59	10.00	363880	3638801.60			0.704	5.000
115	10.00	546990	5469903.84			0.591	5.000
208	10.00	315342	3153418.63			2.127	5.000

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	34922	34293	34463	34400	34646
24	175518	170839	176706	179339	173301
59	368200	362397	364238	362566	362000
115	547842	546027	546434	542878	551772
208	306699	314539	325551	315092	314829

Integration Time [sec] 0.1

**Resolution/Axis**



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	58177.38	8.95	8.90 - 9.10	
24	281881.70	23.95	23.90 - 24.10	
59	605856.81	59.00	58.90 - 59.10	
115	989118.19	115.00	114.90 - 115.10	
208	553471.14	208.05	207.90 - 208.10	

# US EPA Tune Check Report

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.63	0.742	0.900	
24	0.66	0.827	0.900	
59	0.64	0.785	0.900	
115	0.57	0.733	0.900	
208	0.58	0.816	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	6.9 V	Deflect	12.2 V
Extract 2	-110.0 V	Cell Entrance	-30 V	Plate Bias	-35 V
Omega Bias	-55 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	0.9993	QP Bias	-3.0 V
Mass Offset	125	Axis Offset	0.03		

**Hardware Settings**

**Torch**

Torch H	0.4 mm	Torch V	0.0 mm
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**EM**

Discriminator	3.1 mV	Analog HV	2156 V	Pulse HV	1535 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	6682	66819.15			0.536	5.000
59	10.00	124096	1240958.93			1.651	5.000
115	10.00	178626	1786255.25			1.948	5.000
208	10.00	166115	1661154.05			1.205	5.000

Mass	RSD% (Flag)
24	
59	

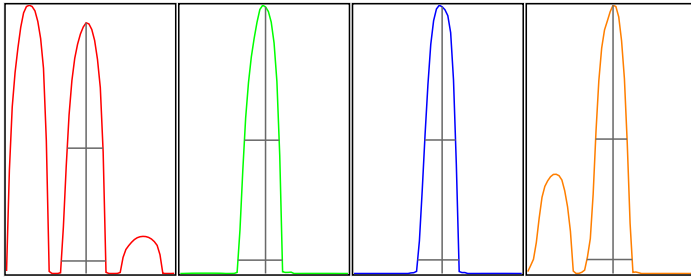
# US EPA Tune Check Report

Mass	RSD% (Flag)
115	
208	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
24	6729	6685	6694	6671	6631
59	126519	125733	123364	121391	123472
115	181175	172729	178807	181242	179174
208	166980	168770	164245	166588	163995

Integration Time [sec]      0.1

**Resolution/Axis**



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
24	11240.40	23.95	23.90 - 24.10	
59	213705.09	59.05	58.90 - 59.10	
115	336657.56	115.10	114.90 - 115.10	
208	311006.83	208.05	207.90 - 208.10	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
24	0.63	0.782	0.900	
59	0.61	0.780	0.900	
115	0.54	0.726	0.900	
208	0.55	0.797	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	-0.4 V
Extract 2	-200.0 V	Cell Entrance	-40 V	Plate Bias	-55 V
Omega Bias	-90 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	0.03		

## Hardware Settings

### Torch

Torch H	0.4 mm	Torch V	0.0 mm
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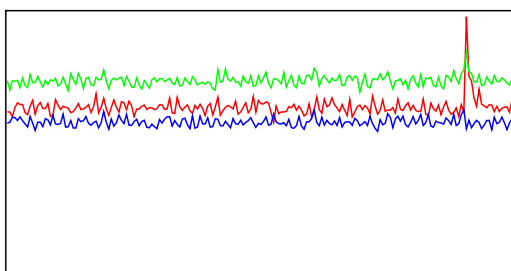
### EM

Discriminator	3.1 mV	Analog HV	2156 V	Pulse HV	1535 V
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# Performance Report

**Operator Name** ICPMS  
**Acq. Date-Time** 8/21/2024 08:04:13  
**Instrument Name** G8422A SG22151236  
**Sample Introduction** PeriPump  
**Nebulizer Type** MicroMist  
**Ion Lens Model** x-Lens  
**Tune Parameters** Standard Tune

## Sensitivity



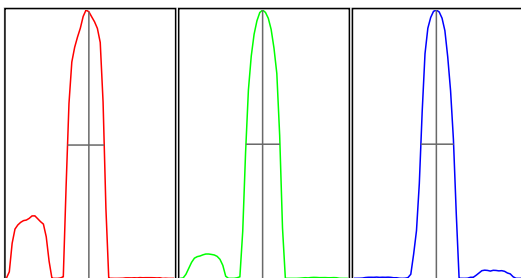
Mass	Range	Count	RSD%	Background
7	5000	3190	5.201	1.200
89	20000	14776	2.633	1.050
205	20000	11594	2.754	4.450

Sampling Period [sec] 0.311  
 Integration Time [sec] 0.1

## Oxide/Doubly Charged Ratio

Oxide 156 / 140 0.955 %  
 Doubly Charged 70 / 140 1.336 %

## Resolution/Axis



Mass	Peak Height	Axis	W-50%	W-10%
7	3169.87	7.00	0.65	0.77
89	14842.13	89.00	0.60	0.75
205	11643.20	205.00	0.58	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	1.09 L/min				

### Lens Parameters

Extract 1	0.0 V	Omega Lens	9.2 V	Deflect	12.6 V
Extract 2	-200.0 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	0.4 mm	Torch H (Hot)	---	Torch H (Cool)	---
Torch V	0.0 mm	Torch V (Hot)	---	Torch V (Cool)	---

### Plasma Correction

Nebulizer Gas Offset	0.04 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	0.03

### EM

Discriminator	3.1 mV	Analog HV	2156 V	Pulse HV	1535 V
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# Performance Report

## Meter

Name	Value	Unit
Nebulizer Gas	1.09	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	5.60E+2	kPa
+5V (Press Gage)	5.0	V
Ar AMFC Temp	29.1	°C
Nebulizer Gas(DP)	5.80E+0	kPa
MU./Dil. Gas(DP)	-1.70E-1	kPa
Aux Gas(DP)	1.07E+1	kPa
Plasma Gas(DP)	1.17E+1	kPa
Nebulizer Gas(BP)	3.08E+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)	21.1	°C
S/C Temp (L)	2.0	°C
Peltier Voltage	4.2	V
IF/BK Press	2.58E+2	Pa
Analyzer Press	5.55E-5	Pa
IG HV	178	V
IG Emission	4.96	µA
TMP Revolution	100.0	%
TMP Rev (Raw)	100.7	%
TMP Current	2.72	A
PWR AMP Drain I	0.4	A
PWR AMP Bias	4.02	V
OctP RF (Avg)	203.1	V
OctP RF Set	3.9	V
OctP FET Bias Set	3.95	V
OctP RF(+)	177.8	V
OctP RF(-)	226.4	V
OctP Bias	-7.9	V
Cell Temp.	65.0	°C
Cell Heater Volt.	4.2	V
+U Voltage	404.9	V

Name	Value	Unit
-U Voltage	-413.1	V
V Voltage	1807.0	V
QPRF Fader	1.3	V
Pickup Temp	55.0	°C
PWR Amp Temp	0.1	V
+600V	620.0	V
-120V	-133.0	V
-720V	-741.3	V
Prefilter Bias	-4.98	V
Pickup Heater I	0.09	A
QP PS +48V	47.5	V
QP PS +48V I	0.00	A
Analog HV	-2163	V
Pulse HV	1547	V
EM Gate	-46.0	V
Pulse Gate	339.5	V
EM Entrance	0.1	V
EM HV Gain	-779.3	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)	60.5	V
RF PS +48V	47.3	V
Forward Power	1549	W
Reflected Power	4	W
Plasma Freq.	27.06	MHz
Drain I 1	11.64	A
Drain I 2	10.53	A
Drain I 3	10.89	A
Drain I 4	11.48	A
Temp Sensor	2.8	V
Driver I	6.07	A

Name	Value	Unit
Igniter	0.1	V
Driver Voltage Set	6.9	V
Unbalance Current	0.37	A
PWM Threshold Set	0.2	V
Driver Voltage	5.6	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	1.70E+2	kPa
He Gas Press	0.00E+0	kPa
ORS AMFC Temp	29.3	°C
Atmospheric Press	1.02E+2	kPa
Extract 1	0.0	V
Extract 2	-199.9	V
Omega Bias	-79.9	V
Omega Lens	9.4	V
Cell Entrance	-30.0	V
Cell Exit	-50.0	V
Deflect	12.6	V
Plate Bias	-35.0	V
HV+530V	531	V
HV+240V	238	V
HV-360V	-360	V
Inlet Temp	25.7	°C
Internal Temp	34.6	°C
+24V	23.7	V
Water Temp	22.5	°C
Water RF/WC/IF	1.48	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
8/21/2024 08:04:13	3190	14776	11594
8/20/2024 09:20:37	4220	16080	10288
8/19/2024 10:25:21	3050	10181	8067
8/19/2024 09:17:03	3195	9903	8321
8/16/2024 08:56:38	3253	15296	12175
8/15/2024 08:28:01	3146	14138	12111
8/14/2024 08:24:41	3158	13973	11673
8/13/2024 08:51:41	3023	15070	13056
8/12/2024 09:10:43	3411	12432	11805
8/12/2024 08:57:52	1786	5237	5122
8/9/2024 11:39:50	3767	15758	13022
8/9/2024 10:08:20	12	1	3
8/8/2024 08:40:39	3024	12546	9719
8/7/2024 09:19:16	2917	12165	9488
8/6/2024 11:12:44	2859	11998	10016
8/6/2024 10:53:38	2232	10655	9558
8/5/2024 10:40:17	2691	10635	9226
8/5/2024 10:09:19	2125	6835	5664
8/5/2024 09:55:23	2365	7939	6556
8/2/2024 09:40:16	3340	11024	9295
8/2/2024 08:37:48	3505	10692	8586
8/1/2024 10:38:00	3758	12250	9330
8/1/2024 09:06:45	3389	10556	9761
7/31/2024 08:13:58	3039	11937	9529
7/30/2024 08:50:51	2533	10165	9332
7/29/2024 16:06:05	3222	12529	9934
7/29/2024 12:07:28	3037	11992	10136
7/29/2024 11:14:31	3174	12095	10013
7/29/2024 10:15:21	2846	11965	10483
7/26/2024 08:53:52	3203	12639	10549
7/25/2024 09:09:23	2585	8526	8080
7/24/2024 15:10:09	3079	9987	9009
7/24/2024 08:46:25	3148	11490	9796
7/23/2024 09:32:54	3357	11492	9580
7/22/2024 10:18:30	3442	12004	11023
7/19/2024 08:55:06	3486	11885	10185
7/18/2024 09:06:31	3257	9447	8888
7/17/2024 13:03:52	2495	9473	8373
7/17/2024 08:53:29	2867	10755	8619
7/16/2024 08:54:03	2886	10903	8985
7/15/2024 10:39:29	2656	10995	8921

# Performance Report

Created Date	Channel 1 Count	Channel 2 Count	Channel 3 Count
7/15/2024 10:30:38	103	5	6
7/15/2024 10:13:57	1404	5260	4224
7/15/2024 09:02:48	3268	12919	10156
7/12/2024 08:34:22	2706	11570	8940
7/11/2024 09:57:22	2727	11970	8459
7/10/2024 08:53:17	2246	9073	7312
7/9/2024 11:54:06	3038	12303	9808
7/9/2024 11:32:31	2139	7705	5834
7/9/2024 11:26:38	2090	7758	5904
7/9/2024 10:39:16	3437	12816	9591
7/9/2024 09:17:46	2577	11478	8879
7/9/2024 08:57:06	3286	13034	8974
7/8/2024 09:21:55	3166	12745	9642
7/8/2024 09:16:31	3066	12665	9668
7/5/2024 09:03:10	3288	13628	11266
7/3/2024 13:05:52	3539	13046	10137
7/3/2024 11:25:40	3213	12344	9957
7/3/2024 09:13:37	3169	12570	10423
7/3/2024 08:44:49	2051	12221	9873
7/2/2024 10:26:17	2328	11750	10360
7/2/2024 08:58:12	3072	10344	9707
7/1/2024 14:16:19	3282	10802	9231
7/1/2024 10:01:10	3288	12796	10476
6/28/2024 08:25:22	3484	12596	10301
6/27/2024 08:34:14	3474	12721	10120
6/27/2024 08:11:22	1666	11338	9258
6/26/2024 07:54:24	2501	8288	8428
6/25/2024 09:02:17	2627	12790	10975
6/24/2024 09:30:27	2976	12050	10056
6/21/2024 08:55:34	3096	13175	9957
6/21/2024 08:22:44	1280	11401	9041
6/20/2024 09:00:43	2564	9588	8694
6/19/2024 07:51:31	2980	11922	9704
6/18/2024 07:52:20	3296	11922	9824
6/17/2024 08:58:45	3009	9463	9003
6/14/2024 08:44:27	2879	12214	10357
6/13/2024 08:42:30	3176	12682	10526
6/12/2024 09:03:47	2996	12633	11312
6/11/2024 08:44:40	3492	13252	10118
6/10/2024 09:31:51	4111	13060	10421
6/10/2024 09:17:04	3508	11070	8441

# Performance Report

Created Date	Channel 1 Count	Channel 2 Count	Channel 3 Count
6/10/2024 09:10:07	3930	12555	9564
6/7/2024 09:02:38	3417	11597	7618
6/6/2024 15:20:20	2950	9649	8247
6/6/2024 05:03:01	3480	13184	11025
6/6/2024 04:59:28	3438	13257	11014
6/5/2024 08:30:26	3575	12412	10789
6/4/2024 08:52:51	3401	12310	11419
6/4/2024 08:39:35	2814	11768	10904
6/4/2024 08:33:37	3060	12687	11246
6/3/2024 10:10:17	3272	10175	10494
6/3/2024 09:51:43	1907	6599	4712
6/3/2024 09:44:54	2209	7627	5199
6/3/2024 09:30:49	3299	9738	9247
5/31/2024 08:42:32	3301	13328	10713
5/30/2024 09:08:46	3406	13401	10419
5/29/2024 09:04:40	3587	13162	10590
5/29/2024 08:48:40	1739	11664	8844
5/29/2024 08:44:08	1858	12854	9297
5/28/2024 09:34:37	3138	12513	10682
5/24/2024 07:20:01	3325	12857	11044
5/23/2024 10:25:13	3407	12821	11140
5/22/2024 09:45:06	3583	12763	11601
5/21/2024 09:06:58	3752	13803	11837
5/21/2024 08:01:17	3966	14413	11053
5/20/2024 17:22:27	3645	10846	9662
5/20/2024 17:18:56	3613	10801	9645
5/20/2024 09:20:56	3333	12566	10681
5/17/2024 09:12:39	3467	13701	10660
5/16/2024 08:56:23	3599	13565	10699
5/15/2024 09:38:13	3581	13159	10227
5/15/2024 09:21:01	1917	11948	9850
5/14/2024 09:41:16	3346	12368	10966
5/14/2024 09:04:40	3206	11414	12297
5/13/2024 09:04:44	2639	15138	12300
5/10/2024 08:57:17	2178	13865	10279
5/9/2024 09:06:46	2313	13292	10727
5/9/2024 08:50:21	1763	12142	9522
5/9/2024 08:44:20	1789	12171	9682
5/8/2024 09:39:10	3313	11092	11044
5/7/2024 17:05:39	3463	13115	10886
5/7/2024 16:48:43	3264	12073	10628

# Performance Report

Created Date	Channel 1 Count	Channel 2 Count	Channel 3 Count
5/7/2024 09:19:24	3347	12706	11167
5/6/2024 09:15:59	3892	14499	12724
5/6/2024 09:03:10	3843	14665	13481
5/3/2024 09:11:06	3540	13100	11548
5/2/2024 09:48:24	3670	12233	11836
5/1/2024 09:22:54	4036	13686	11251
4/30/2024 10:43:56	4361	13605	11359
4/30/2024 08:17:01	4350	13793	11664
4/29/2024 09:10:57	4751	14089	11140
4/29/2024 08:57:45	3329	9292	6892
4/26/2024 08:09:31	5054	14978	10788
4/25/2024 09:37:51	4308	13902	11794
4/24/2024 09:17:24	4876	17662	12102
4/23/2024 22:46:11	4199	16180	12059
4/23/2024 09:01:59	3715	15592	11876
4/22/2024 10:16:34	4292	15978	13578
4/19/2024 10:59:00	3974	16385	11540
4/19/2024 10:07:48	2645	8439	3189
4/19/2024 09:10:32	360162	657303	2022720
4/18/2024 09:24:23	3369	17060	12485
4/17/2024 17:03:53	2828	16000	10229
4/17/2024 16:22:27	2262	14213	9009
4/17/2024 09:09:54	3608	12353	11595
4/16/2024 09:06:44	4046	14969	11814
4/15/2024 09:14:49	4139	16052	12083
4/12/2024 08:28:21	4666	17208	13280
4/11/2024 08:35:01	4138	17113	13613
4/10/2024 09:48:58	4018	16844	14484
4/9/2024 08:56:49	3881	15432	13181
4/8/2024 09:25:48	4035	16790	14224
4/5/2024 08:28:47	3893	17251	13416
4/4/2024 11:00:01	2778	10338	7494
4/4/2024 10:45:12	4028	16465	14158
4/3/2024 08:29:42	3630	16640	12452
4/2/2024 09:43:44	3046	17903	13815
4/1/2024 09:27:15	3194	17804	13701
3/29/2024 08:53:28	2520	17006	12384
3/28/2024 09:08:20	2920	17324	12995
3/27/2024 16:48:32	3382	17176	12605
3/27/2024 10:07:18	3661	16126	12723
3/27/2024 08:49:30	3929	17060	12992

# Performance Report

Created Date	Channel 1 Count	Channel 2 Count	Channel 3 Count
3/26/2024 10:28:06	4590	16054	14855
3/25/2024 10:10:30	4003	18464	13973
3/22/2024 09:00:45	2984	17875	12893
3/21/2024 08:44:31	3167	17829	13067
3/20/2024 09:03:42	3080	17089	12389
3/19/2024 13:23:15	3786	17505	12877
3/19/2024 09:31:32	3279	17943	12421
3/18/2024 10:47:35	4608	16508	13822
3/15/2024 09:19:25	2446	16491	10868
3/14/2024 09:13:05	2441	16585	10800
3/13/2024 09:22:30	2903	16825	11325
3/12/2024 09:10:39	2653	17105	11709
3/11/2024 11:07:32	4200	16181	13057
3/11/2024 09:31:05	4293	17257	11986
3/11/2024 09:27:33	4322	17396	12106
3/8/2024 08:29:13	4145	16244	11704
3/7/2024 17:46:09	4185	15148	11811
3/7/2024 13:19:13	4029	15848	11265
3/7/2024 09:28:32	3605	13491	9204
3/7/2024 09:11:32	2580	13526	10298
3/7/2024 09:01:08	2698	13846	10718
3/6/2024 10:19:40	3208	14488	10724
3/5/2024 10:15:16	273	1743	2387
3/5/2024 10:09:01	146	892	1334
3/4/2024 11:41:00	4063	15365	11233
3/4/2024 11:28:21	1954	9059	5433
3/1/2024 08:43:28	2996	15512	8966
2/29/2024 10:38:23	4306	15354	11334
2/29/2024 10:00:25	554	3889	4359
2/29/2024 09:54:15	506	3359	3784
2/28/2024 09:32:01	3061	18229	13084
2/27/2024 09:16:47	2827	17549	11855
2/26/2024 10:30:35	3971	16379	11179
2/26/2024 10:00:21	1827	10055	6679
2/23/2024 09:07:38	3382	16511	11230
2/22/2024 08:58:48	3065	15604	10264
2/21/2024 09:51:13	3455	16190	11543
2/20/2024 09:59:52	3253	15976	11176
2/19/2024 11:30:32	4894	17240	13782
2/19/2024 11:27:00	4856	17120	13743
2/19/2024 10:16:07	4289	15395	10107

# Performance Report

Created Date	Channel 1 Count	Channel 2 Count	Channel 3 Count
2/16/2024 10:28:26	3613	15969	9007
2/15/2024 09:20:58	4185	16564	9371
2/14/2024 09:20:12	4712	16825	9695
2/13/2024 10:44:41	4401	16379	9098
2/13/2024 10:29:18	758	13401	11559
2/12/2024 11:24:46	2301	15124	11918
2/12/2024 11:09:08	53	2239	4028
2/12/2024 10:33:45	42	1954	3702
2/12/2024 10:19:52	438	2663	2740
2/12/2024 10:03:02	137	541	1027
2/9/2024 09:43:26	2475	17092	10562
2/8/2024 09:41:08	2739	17007	11011
2/7/2024 09:08:34	2949	17251	11332
2/6/2024 10:08:14	3266	17222	10352
2/5/2024 16:27:35	2590	11801	7811
2/2/2024 09:52:22	4247	15989	11850
2/1/2024 09:29:20	4221	15873	11923
1/31/2024 11:01:25	4619	16449	12370
1/31/2024 10:56:52	2140	7715	5751
1/30/2024 09:04:33	4439	15663	11799
1/29/2024 09:09:33	3916	13763	12278
1/26/2024 10:08:59	3557	15191	9410
1/25/2024 09:54:25	3735	15427	9753
1/24/2024 08:52:40	3752	15257	10201
1/23/2024 11:08:41	3473	15039	10359
1/22/2024 09:17:23	4075	16149	10348
1/22/2024 09:06:26	2984	12293	7869
1/19/2024 09:01:45	3434	14536	9100
1/18/2024 10:29:20	3342	14635	9148
1/17/2024 08:52:45	3752	15881	10390
1/16/2024 14:09:54	4332	14365	9878
1/16/2024 13:58:35	1849	8752	5553
1/16/2024 13:45:11	1759	8747	5733
1/15/2024 13:03:28	344	1843	2376
1/15/2024 10:46:25	310	1953	2595
1/15/2024 10:34:05	355	1945	2594
1/15/2024 10:25:28	354	1906	2502
1/15/2024 09:48:32	378	1867	2261
1/15/2024 09:32:45	371	1842	2272
1/11/2024 14:10:39	440	1388	1671
1/11/2024 14:00:32	442	1331	1629

# Performance Report

Created Date	Channel 1 Count	Channel 2 Count	Channel 3 Count
1/11/2024 13:07:14	441	1073	1309
1/11/2024 12:18:32	442	1296	1595
1/11/2024 10:36:51	468	1469	1987
1/11/2024 10:28:26	430	1428	1696
1/11/2024 09:11:58	387	1869	2263
1/11/2024 09:02:27	313	1592	1975
1/11/2024 08:54:00	310	1559	1944
1/10/2024 09:10:40	3490	14986	10982
1/9/2024 12:58:05	4349	14607	8180
1/9/2024 12:49:35	715	10779	7642
1/9/2024 12:37:33	8	1202	6143
1/9/2024 12:22:55	8	1215	6181
1/9/2024 12:00:03	8	1341	6546
1/9/2024 11:54:42	9	1280	6372
1/9/2024 11:45:17	9	1382	6594
1/9/2024 11:40:53	10	1397	6617
1/9/2024 11:25:08	362	1545	1665
1/9/2024 11:20:04	363	1540	1650
1/8/2024 13:49:37	3408	10281	9523
1/8/2024 12:34:48	1155	5021	6450
1/8/2024 12:30:18	1191	5187	6341
1/5/2024 09:35:49	3668	12692	8070
1/4/2024 09:13:21	3867	12894	6927
1/4/2024 09:00:57	603	1935	1257
1/3/2024 08:46:17	3809	12778	9107
1/2/2024 11:16:48	3519	12397	9390
1/2/2024 10:38:17	3814	12293	8842
12/29/2023 10:12:49	4013	12649	8816
12/28/2023 08:59:35	3766	13387	9586
12/27/2023 12:20:02	3809	12937	8800
12/27/2023 11:34:32	40	9	2
12/27/2023 10:51:04	55	31	2
12/27/2023 10:41:08	72	37	8
12/27/2023 10:33:50	3879	13288	8945
12/27/2023 10:28:28	3772	13183	8580
12/22/2023 07:49:52	3943	11892	9924
12/21/2023 08:44:43	3526	13027	9943
12/20/2023 09:26:41	4003	13172	10074
12/19/2023 09:55:37	4333	13694	10285
12/18/2023 10:16:18	4138	13763	10818
12/18/2023 10:06:38	3415	13014	10962

# Performance Report

Created Date	Channel 1 Count	Channel 2 Count	Channel 3 Count
12/18/2023 10:00:26	3894	14384	11204
12/15/2023 09:45:55	3734	14030	9513
12/14/2023 10:23:15	3524	14113	9600
12/13/2023 10:17:40	3829	13996	9570
12/12/2023 09:56:00	3555	14240	9677
12/11/2023 10:31:48	3701	14394	9382
12/8/2023 10:10:39	3664	14293	8929
12/7/2023 09:51:50	3426	13353	8809
12/6/2023 10:12:37	3698	14579	8824
12/5/2023 10:02:14	3349	13427	9922
12/4/2023 12:08:53	3427	12418	10340
12/4/2023 11:24:17	1768	7808	8292
12/4/2023 11:20:06	1802	8001	8316
12/4/2023 11:16:06	1832	8106	8250
12/4/2023 10:23:39	1770	7816	7735
12/4/2023 10:16:55	1601	7275	7827
12/4/2023 10:09:27	1944	8113	7456
12/1/2023 09:45:19	2113	9054	8466
11/30/2023 11:48:17	2317	9995	8851
11/30/2023 11:13:01	1727	8309	9089
11/30/2023 11:05:44	1721	8023	8748
11/30/2023 10:33:46	1172	5927	8124
11/29/2023 10:04:26	2359	11870	8365
11/29/2023 09:51:22	1483	5693	3444
11/28/2023 12:50:37	3146	12531	8324
11/28/2023 12:18:55	2789	8914	4789
11/28/2023 12:15:04	3346	10726	5995
11/28/2023 11:49:24	2609	8496	4878
11/28/2023 10:22:53	1529	5718	4738
11/28/2023 10:19:03	1663	6180	5204
11/28/2023 10:15:20	1784	6623	5657
11/28/2023 09:59:37	1436	6174	5639
11/27/2023 10:28:48	2148	9665	8835
11/27/2023 10:07:16	1451	7618	8440
11/27/2023 10:01:25	1454	7648	8543
11/27/2023 09:52:06	1636	8794	9323
11/22/2023 09:50:47	2317	9749	8520
11/21/2023 09:52:05	2348	10189	9398
11/20/2023 09:38:08	2536	10392	9162
11/17/2023 10:07:38	2699	10664	9285
11/16/2023 09:42:56	2615	11519	10404



# Performance Report

Created Date	Channel 1 Count	Channel 2 Count	Channel 3 Count
11/15/2023 13:01:45	2120	9780	10146
11/15/2023 12:33:52	1814	8334	9391
11/15/2023 12:27:35	1837	8353	9462
11/15/2023 12:17:35	1829	8310	9392
11/15/2023 12:09:42	1631	7760	9062
11/15/2023 10:39:09	1634	7521	8758
11/14/2023 10:25:03	4165	15167	8009
11/13/2023 09:42:07	3445	15971	9795
11/10/2023 09:15:37	3300	14607	7635
11/9/2023 09:55:52	2651	15369	8099
11/8/2023 09:55:56	2862	15545	7990
11/7/2023 10:07:52	2359	13776	7205
11/7/2023 10:01:12	1759	11245	6289
11/7/2023 09:55:11	1931	12236	6442
11/6/2023 10:21:52	3645	16323	7638
11/3/2023 09:44:39	2391	13805	7745
11/2/2023 09:56:11	2999	15000	8628
11/1/2023 09:41:33	3299	14766	7935

## Background

Created Date	Channel 1 Count	Channel 2 Count	Channel 3 Count
8/21/2024 08:04:13	1.200	1.050	4.450
8/20/2024 09:20:37	1.250	1.250	5.250
8/19/2024 10:25:21	1.000	0.500	4.550
8/19/2024 09:17:03	0.900	0.650	3.700
8/16/2024 08:56:38	1.050	1.050	3.450
8/15/2024 08:28:01	1.000	0.600	3.250
8/14/2024 08:24:41	1.150	0.450	4.000
8/13/2024 08:51:41	1.200	0.450	2.850
8/12/2024 09:10:43	0.500	0.500	2.350
8/12/2024 08:57:52	0.950	0.600	2.950
8/9/2024 11:39:50	1.350	0.700	4.500
8/9/2024 10:08:20	0.850	0.600	3.100
8/8/2024 08:40:39	1.200	0.500	5.750
8/7/2024 09:19:16	1.350	0.900	4.300
8/6/2024 11:12:44	1.450	0.800	3.500

# Performance Report

Created Date	Channel 1 Count	Channel 2 Count	Channel 3 Count
8/6/2024 10:53:38	1.600	0.500	3.350
8/5/2024 10:40:17	0.600	0.750	3.150
8/5/2024 10:09:19	1.300	0.750	4.700
8/5/2024 09:55:23	0.800	0.700	5.750
8/2/2024 09:40:16	1.050	0.650	4.450
8/2/2024 08:37:48	1.300	0.700	4.600
8/1/2024 10:38:00	1.050	0.550	5.450
8/1/2024 09:06:45	0.900	0.850	3.750
7/31/2024 08:13:58	1.200	0.650	3.800
7/30/2024 08:50:51	1.100	0.650	2.400
7/29/2024 16:06:05	1.250	0.950	4.850
7/29/2024 12:07:28	1.500	0.750	4.100
7/29/2024 11:14:31	1.200	1.000	3.500
7/29/2024 10:15:21	1.250	0.800	3.900
7/26/2024 08:53:52	0.750	1.200	3.950
7/25/2024 09:09:23	0.750	0.300	2.900
7/24/2024 15:10:09	0.750	0.700	3.650
7/24/2024 08:46:25	1.100	0.650	4.200
7/23/2024 09:32:54	1.250	0.750	3.550
7/22/2024 10:18:30	1.050	0.600	4.200
7/19/2024 08:55:06	1.300	0.650	4.050
7/18/2024 09:06:31	0.700	0.600	2.950
7/17/2024 13:03:52	1.150	0.800	3.850
7/17/2024 08:53:29	1.700	0.550	5.400
7/16/2024 08:54:03	0.900	0.850	4.100
7/15/2024 10:39:29	1.050	0.750	4.650
7/15/2024 10:30:38	1.250	0.750	4.300
7/15/2024 10:13:57	1.250	0.650	4.400
7/15/2024 09:02:48	1.550	0.450	4.300
7/12/2024 08:34:22	1.200	0.850	4.100
7/11/2024 09:57:22	1.550	1.200	5.900
7/10/2024 08:53:17	1.050	0.850	2.900
7/9/2024 11:54:06	1.200	0.750	3.700
7/9/2024 11:32:31	1.000	0.450	3.700
7/9/2024 11:26:38	1.550	0.550	4.350
7/9/2024 10:39:16	1.200	1.050	4.700
7/9/2024 09:17:46	1.550	0.800	4.650
7/9/2024 08:57:06	1.250	0.700	3.100
7/8/2024 09:21:55	1.700	0.950	5.050
7/8/2024 09:16:31	1.050	0.750	4.500
7/5/2024 09:03:10	1.200	0.500	3.600

# Performance Report

Created Date	Channel 1 Count	Channel 2 Count	Channel 3 Count
7/3/2024 13:05:52	1.150	1.000	4.000
7/3/2024 11:25:40	1.500	0.850	4.500
7/3/2024 09:13:37	1.000	0.550	4.300
7/3/2024 08:44:49	0.950	0.650	3.500
7/2/2024 10:26:17	0.850	0.650	3.600
7/2/2024 08:58:12	0.900	0.850	3.350
7/1/2024 14:16:19	1.450	0.500	5.050
7/1/2024 10:01:10	1.450	0.850	3.900
6/28/2024 08:25:22	1.100	1.350	4.300
6/27/2024 08:34:14	1.350	0.900	6.000
6/27/2024 08:11:22	0.850	0.700	4.400
6/26/2024 07:54:24	0.650	0.400	2.750
6/25/2024 09:02:17	0.900	0.650	4.200
6/24/2024 09:30:27	1.250	1.100	4.150
6/21/2024 08:55:34	1.150	0.700	6.200
6/21/2024 08:22:44	1.050	0.900	3.250
6/20/2024 09:00:43	1.300	0.700	2.750
6/19/2024 07:51:31	1.500	1.400	4.900
6/18/2024 07:52:20	1.850	1.000	4.300
6/17/2024 08:58:45	1.000	0.450	2.900
6/14/2024 08:44:27	1.200	0.450	4.150
6/13/2024 08:42:30	1.100	0.850	4.800
6/12/2024 09:03:47	1.200	0.400	3.350
6/11/2024 08:44:40	1.650	0.700	3.950
6/10/2024 09:31:51	1.550	0.750	4.350
6/10/2024 09:17:04	1.250	0.450	3.800
6/10/2024 09:10:07	1.400	0.600	3.500
6/7/2024 09:02:38	1.400	0.350	3.300
6/6/2024 15:20:20	1.150	0.400	2.650
6/6/2024 05:03:01	1.500	1.100	4.650
6/6/2024 04:59:28	1.300	0.900	3.750
6/5/2024 08:30:26	1.800	1.350	4.050
6/4/2024 08:52:51	0.650	0.500	3.850
6/4/2024 08:39:35	0.850	0.500	3.450
6/4/2024 08:33:37	0.950	0.800	4.400
6/3/2024 10:10:17	1.000	0.500	3.100
6/3/2024 09:51:43	2.050	0.850	4.950
6/3/2024 09:44:54	1.500	0.500	5.150
6/3/2024 09:30:49	1.100	0.350	3.050
5/31/2024 08:42:32	1.350	0.900	5.150
5/30/2024 09:08:46	1.000	0.550	4.300

# Performance Report

Created Date	Channel 1 Count	Channel 2 Count	Channel 3 Count
5/29/2024 09:04:40	1.150	0.750	4.750
5/29/2024 08:48:40	0.700	0.550	2.700
5/29/2024 08:44:08	1.150	0.400	3.600
5/28/2024 09:34:37	1.000	0.450	3.150
5/24/2024 07:20:01	1.250	1.100	4.200
5/23/2024 10:25:13	0.900	0.900	5.100
5/22/2024 09:45:06	1.050	0.750	5.250
5/21/2024 09:06:58	1.400	1.100	5.050
5/21/2024 08:01:17	1.150	0.950	4.950
5/20/2024 17:22:27	0.900	0.750	3.800
5/20/2024 17:18:56	1.050	1.050	3.750
5/20/2024 09:20:56	0.450	0.650	3.250
5/17/2024 09:12:39	1.050	0.700	4.800
5/16/2024 08:56:23	0.900	0.750	3.850
5/15/2024 09:38:13	0.750	0.600	4.050
5/15/2024 09:21:01	0.900	0.250	3.400
5/14/2024 09:41:16	0.900	0.350	3.050
5/14/2024 09:04:40	0.600	0.350	2.100
5/13/2024 09:04:44	0.950	0.900	3.450
5/10/2024 08:57:17	0.900	0.550	5.000
5/9/2024 09:06:46	1.100	0.900	5.050
5/9/2024 08:50:21	1.150	0.700	4.800
5/9/2024 08:44:20	1.000	1.000	5.300
5/8/2024 09:39:10	1.300	0.600	3.200
5/7/2024 17:05:39	1.150	0.700	4.850
5/7/2024 16:48:43	1.050	0.800	3.600
5/7/2024 09:19:24	1.000	0.800	3.750
5/6/2024 09:15:59	0.750	0.750	4.350
5/6/2024 09:03:10	0.850	0.700	4.500
5/3/2024 09:11:06	1.150	0.500	3.350
5/2/2024 09:48:24	0.800	0.800	2.450
5/1/2024 09:22:54	1.300	0.700	5.450
4/30/2024 10:43:56	1.000	1.250	5.000
4/30/2024 08:17:01	1.150	0.950	4.100
4/29/2024 09:10:57	1.550	0.750	5.050
4/29/2024 08:57:45	1.550	0.850	5.850
4/26/2024 08:09:31	1.300	0.750	5.850
4/25/2024 09:37:51	1.250	1.000	4.100
4/24/2024 09:17:24	1.600	1.450	5.400
4/23/2024 22:46:11	1.250	1.150	5.750
4/23/2024 09:01:59	0.700	0.550	4.900

# Performance Report

Created Date	Channel 1 Count	Channel 2 Count	Channel 3 Count
4/22/2024 10:16:34	1.000	0.650	4.100
4/19/2024 10:59:00	1.050	1.050	5.250
4/19/2024 10:07:48	2.150	1.700	8.800
4/19/2024 09:10:32	0.600	0.600	1.050
4/18/2024 09:24:23	0.850	0.800	2.900
4/17/2024 17:03:53	1.350	0.800	4.300
4/17/2024 16:22:27	1.150	1.000	4.600
4/17/2024 09:09:54	0.800	0.750	2.300
4/16/2024 09:06:44	1.150	1.300	4.500
4/15/2024 09:14:49	1.200	1.150	5.300
4/12/2024 08:28:21	1.050	0.850	4.250
4/11/2024 08:35:01	0.900	0.700	4.650
4/10/2024 09:48:58	0.550	1.000	3.500
4/9/2024 08:56:49	0.700	0.700	3.500
4/8/2024 09:25:48	0.950	0.800	4.150
4/5/2024 08:28:47	1.450	0.700	5.100
4/4/2024 11:00:01	1.700	0.650	4.750
4/4/2024 10:45:12	1.100	0.750	3.200
4/3/2024 08:29:42	0.950	0.900	5.550
4/2/2024 09:43:44	0.800	0.750	2.500
4/1/2024 09:27:15	1.200	1.300	3.650
3/29/2024 08:53:28	1.250	0.900	3.350
3/28/2024 09:08:20	0.800	0.850	3.950
3/27/2024 16:48:32	1.250	1.100	4.700
3/27/2024 10:07:18	1.650	0.750	3.600
3/27/2024 08:49:30	1.700	0.600	4.200
3/26/2024 10:28:06	1.450	0.550	4.000
3/25/2024 10:10:30	1.150	0.650	4.800
3/22/2024 09:00:45	0.750	0.750	4.000
3/21/2024 08:44:31	0.900	0.450	4.000
3/20/2024 09:03:42	1.350	0.650	2.950
3/19/2024 13:23:15	1.250	0.750	3.650
3/19/2024 09:31:32	0.950	0.500	3.450
3/18/2024 10:47:35	1.150	0.550	3.550
3/15/2024 09:19:25	1.700	1.000	5.050
3/14/2024 09:13:05	1.100	0.750	4.050
3/13/2024 09:22:30	1.700	0.850	3.850
3/12/2024 09:10:39	0.850	0.700	3.750
3/11/2024 11:07:32	1.650	0.850	4.300
3/11/2024 09:31:05	1.450	0.850	4.850
3/11/2024 09:27:33	1.950	0.500	4.700

# Performance Report

Created Date	Channel 1 Count	Channel 2 Count	Channel 3 Count
3/8/2024 08:29:13	1.800	0.650	4.350
3/7/2024 17:46:09	1.250	1.050	4.550
3/7/2024 13:19:13	0.950	0.650	4.750
3/7/2024 09:28:32	2.150	1.000	4.900
3/7/2024 09:11:32	1.200	0.600	3.500
3/7/2024 09:01:08	1.250	0.700	4.350
3/6/2024 10:19:40	1.600	0.500	4.550
3/5/2024 10:15:16	45.151	868.764	0.250
3/5/2024 10:09:01	0.450	0.100	0.150
3/4/2024 11:41:00	1.650	1.000	4.400
3/4/2024 11:28:21	1.900	1.700	7.550
3/1/2024 08:43:28	1.850	1.100	5.400
2/29/2024 10:38:23	1.350	0.800	4.500
2/29/2024 10:00:25	0.850	0.450	1.150
2/29/2024 09:54:15	0.900	0.350	1.300
2/28/2024 09:32:01	1.250	0.700	3.350
2/27/2024 09:16:47	1.000	0.700	3.200
2/26/2024 10:30:35	1.750	0.700	5.350
2/26/2024 10:00:21	2.150	0.700	5.850
2/23/2024 09:07:38	1.300	0.550	3.600
2/22/2024 08:58:48	1.150	0.850	4.300
2/21/2024 09:51:13	1.000	0.650	3.750
2/20/2024 09:59:52	1.100	1.250	3.900
2/19/2024 11:30:32	1.150	0.400	3.700
2/19/2024 11:27:00	1.800	0.500	3.150
2/19/2024 10:16:07	1.100	0.750	4.100
2/16/2024 10:28:26	1.650	0.950	5.150
2/15/2024 09:20:58	1.850	0.850	5.350
2/14/2024 09:20:12	2.050	1.150	5.600
2/13/2024 10:44:41	1.700	1.150	5.800
2/13/2024 10:29:18	1.550	0.800	2.700
2/12/2024 11:24:46	1.300	0.400	3.900
2/12/2024 11:09:08	0.150	0.150	0.350
2/12/2024 10:33:45	0.450	2.300	0.100
2/12/2024 10:19:52	1.550	0.400	1.250
2/12/2024 10:03:02	0.150	0.050	0.200
2/9/2024 09:43:26	1.600	0.400	3.200
2/8/2024 09:41:08	1.600	0.800	3.200
2/7/2024 09:08:34	1.200	0.550	3.550
2/6/2024 10:08:14	1.650	1.550	4.100
2/5/2024 16:27:35	1.100	0.550	3.400

# Performance Report

Created Date	Channel 1 Count	Channel 2 Count	Channel 3 Count
2/2/2024 09:52:22	1.250	0.600	5.350
2/1/2024 09:29:20	1.000	0.550	5.000
1/31/2024 11:01:25	1.300	0.650	4.650
1/31/2024 10:56:52	1.200	0.800	5.700
1/30/2024 09:04:33	0.900	0.650	5.400
1/29/2024 09:09:33	1.100	0.650	4.000
1/26/2024 10:08:59	1.450	1.050	5.000
1/25/2024 09:54:25	1.350	0.850	3.950
1/24/2024 08:52:40	1.300	0.900	3.900
1/23/2024 11:08:41	1.000	0.900	3.450
1/22/2024 09:17:23	1.300	0.800	5.500
1/22/2024 09:06:26	1.750	0.650	4.050
1/19/2024 09:01:45	1.750	1.000	4.000
1/18/2024 10:29:20	1.250	0.650	3.600
1/17/2024 08:52:45	1.550	0.650	4.250
1/16/2024 14:09:54	1.450	0.650	4.150
1/16/2024 13:58:35	1.450	0.800	3.350
1/16/2024 13:45:11	1.050	0.600	3.600
1/15/2024 13:03:28	0.750	0.200	0.700
1/15/2024 10:46:25	0.800	0.100	0.400
1/15/2024 10:34:05	0.800	0.100	0.750
1/15/2024 10:25:28	1.350	0.150	0.800
1/15/2024 09:48:32	0.950	0.250	0.450
1/15/2024 09:32:45	1.050	0.350	0.600
1/11/2024 14:10:39	0.900	0.150	0.200
1/11/2024 14:00:32	0.700	0.050	0.250
1/11/2024 13:07:14	0.600	0.150	0.250
1/11/2024 12:18:32	0.550	0.050	0.400
1/11/2024 10:36:51	0.450	0.100	0.250
1/11/2024 10:28:26	0.550	0.050	0.200
1/11/2024 09:11:58	0.300	0.150	0.500
1/11/2024 09:02:27	0.700	0.200	0.500
1/11/2024 08:54:00	0.450	0.100	0.600
1/10/2024 09:10:40	1.400	1.000	4.400
1/9/2024 12:58:05	2.000	0.800	4.900
1/9/2024 12:49:35	1.200	0.450	1.750
1/9/2024 12:37:33	0.000	0.050	0.200
1/9/2024 12:22:55	0.050	0.050	0.000
1/9/2024 12:00:03	0.000	0.050	0.100
1/9/2024 11:54:42	0.000	0.000	0.050
1/9/2024 11:45:17	0.100	0.000	0.050

# Performance Report

Created Date	Channel 1 Count	Channel 2 Count	Channel 3 Count
1/9/2024 11:40:53	0.050	0.000	0.050
1/9/2024 11:25:08	0.450	0.050	0.200
1/9/2024 11:20:04	0.250	0.100	0.200
1/8/2024 13:49:37	0.950	0.550	2.650
1/8/2024 12:34:48	0.350	0.150	0.600
1/8/2024 12:30:18	0.250	0.300	0.450
1/5/2024 09:35:49	1.250	0.450	3.900
1/4/2024 09:13:21	1.100	0.750	4.350
1/4/2024 09:00:57	1.400	0.450	2.950
1/3/2024 08:46:17	1.250	0.600	3.200
1/2/2024 11:16:48	1.350	0.300	2.800
1/2/2024 10:38:17	1.250	0.800	2.900
12/29/2023 10:12:49	0.850	0.500	3.100
12/28/2023 08:59:35	1.000	0.800	3.550
12/27/2023 12:20:02	1.000	0.600	3.150
12/27/2023 11:34:32	0.800	0.650	3.450
12/27/2023 10:51:04	1.000	0.800	3.000
12/27/2023 10:41:08	1.200	0.400	3.400
12/27/2023 10:33:50	1.500	0.650	3.500
12/27/2023 10:28:28	0.950	0.600	3.300
12/22/2023 07:49:52	0.850	0.450	2.400
12/21/2023 08:44:43	1.050	0.450	2.150
12/20/2023 09:26:41	0.600	0.350	3.500
12/19/2023 09:55:37	1.150	0.550	2.600
12/18/2023 10:16:18	0.700	0.400	2.100
12/18/2023 10:06:38	0.900	0.150	2.400
12/18/2023 10:00:26	1.150	0.200	2.950
12/15/2023 09:45:55	1.000	0.800	3.050
12/14/2023 10:23:15	0.350	0.850	2.950
12/13/2023 10:17:40	0.650	0.250	2.800
12/12/2023 09:56:00	0.950	0.600	2.700
12/11/2023 10:31:48	1.350	0.200	2.550
12/8/2023 10:10:39	0.950	0.600	3.250
12/7/2023 09:51:50	0.850	0.300	2.550
12/6/2023 10:12:37	1.050	0.750	3.550
12/5/2023 10:02:14	0.600	0.450	1.750
12/4/2023 12:08:53	0.600	0.300	2.500
12/4/2023 11:24:17	0.350	0.200	1.300
12/4/2023 11:20:06	0.500	0.250	0.850
12/4/2023 11:16:06	0.150	0.500	1.150
12/4/2023 10:23:39	0.300	0.150	1.400



# Performance Report

Created Date	Channel 1 Count	Channel 2 Count	Channel 3 Count
12/4/2023 10:16:55	0.300	0.350	0.950
12/4/2023 10:09:27	0.400	0.300	1.100
12/1/2023 09:45:19	0.550	0.500	1.500
11/30/2023 11:48:17	0.450	0.350	1.950
11/30/2023 11:13:01	0.450	0.100	1.200
11/30/2023 11:05:44	0.500	0.050	1.150
11/30/2023 10:33:46	0.150	0.200	0.700
11/29/2023 10:04:26	0.850	0.450	2.200
11/29/2023 09:51:22	0.750	0.300	2.400
11/28/2023 12:50:37	1.000	0.550	2.650
11/28/2023 12:18:55	0.800	0.700	3.500
11/28/2023 12:15:04	0.500	0.450	3.050
11/28/2023 11:49:24	0.900	0.450	3.200
11/28/2023 10:22:53	0.650	0.350	1.800
11/28/2023 10:19:03	0.550	0.400	1.950
11/28/2023 10:15:20	0.200	0.200	1.650
11/28/2023 09:59:37	0.250	0.200	1.500
11/27/2023 10:28:48	0.300	0.200	1.850
11/27/2023 10:07:16	0.300	0.100	1.500
11/27/2023 10:01:25	0.500	0.150	1.150
11/27/2023 09:52:06	0.500	0.150	1.250
11/22/2023 09:50:47	0.500	0.300	1.700
11/21/2023 09:52:05	0.650	0.250	1.200
11/20/2023 09:38:08	0.200	0.350	1.450
11/17/2023 10:07:38	0.250	0.100	2.450
11/16/2023 09:42:56	0.350	0.350	2.750
11/15/2023 13:01:45	0.550	0.100	1.700
11/15/2023 12:33:52	0.350	0.250	0.900
11/15/2023 12:27:35	0.150	0.250	1.300
11/15/2023 12:17:35	0.400	0.200	0.900
11/15/2023 12:09:42	0.450	0.150	1.350
11/15/2023 10:39:09	0.200	0.100	1.150
11/14/2023 10:25:03	1.600	0.750	4.550
11/13/2023 09:42:07	1.000	0.350	3.300
11/10/2023 09:15:37	0.950	0.650	3.000
11/9/2023 09:55:52	0.850	0.450	2.800
11/8/2023 09:55:56	1.100	0.450	3.550
11/7/2023 10:07:52	1.150	0.800	3.850
11/7/2023 10:01:12	0.750	0.350	2.550
11/7/2023 09:55:11	1.000	0.350	3.150
11/6/2023 10:21:52	1.450	0.800	3.700

# Performance Report

Created Date	Channel 1 Count	Channel 2 Count	Channel 3 Count
11/3/2023 09:44:39	1.250	0.600	4.000
11/2/2023 09:56:11	1.350	0.500	3.200
11/1/2023 09:41:33	1.550	0.700	4.000

## Tune Parameters

Created Date	Extract 1	Extract 2	Omega Bias
8/21/2024 08:04:13	0.0 V	-200.0 V	-80 V
8/20/2024 09:20:37	0.0 V	-190.0 V	-100 V
8/19/2024 10:25:21	0.0 V	-185.0 V	-80 V
8/19/2024 09:17:03	0.0 V	-165.0 V	-80 V
8/16/2024 08:56:38	0.0 V	-180.0 V	-80 V
8/15/2024 08:28:01	0.0 V	-165.0 V	-80 V
8/14/2024 08:24:41	0.0 V	-175.0 V	-80 V
8/13/2024 08:51:41	0.0 V	-185.0 V	-80 V
8/12/2024 09:10:43	0.0 V	-160.0 V	-80 V
8/12/2024 08:57:52	0.0 V	-180.0 V	-80 V
8/9/2024 11:39:50	0.0 V	-195.0 V	-90 V
8/9/2024 10:08:20	0.0 V	-195.0 V	-90 V
8/8/2024 08:40:39	0.0 V	-195.0 V	-90 V
8/7/2024 09:19:16	0.0 V	-195.0 V	-90 V
8/6/2024 11:12:44	0.0 V	-200.0 V	-80 V
8/6/2024 10:53:38	0.0 V	-200.0 V	-80 V
8/5/2024 10:40:17	0.0 V	-200.0 V	-80 V
8/5/2024 10:09:19	0.0 V	-200.0 V	-90 V
8/5/2024 09:55:23	0.0 V	-195.0 V	-90 V
8/2/2024 09:40:16	0.0 V	-190.0 V	-90 V
8/2/2024 08:37:48	0.0 V	-190.0 V	-90 V
8/1/2024 10:38:00	0.0 V	-180.0 V	-90 V
8/1/2024 09:06:45	0.0 V	-175.0 V	-90 V
7/31/2024 08:13:58	0.0 V	-185.0 V	-90 V
7/30/2024 08:50:51	0.0 V	-180.0 V	-90 V
7/29/2024 16:06:05	0.0 V	-190.0 V	-90 V
7/29/2024 12:07:28	0.0 V	-195.0 V	-90 V
7/29/2024 11:14:31	0.0 V	-195.0 V	-100 V
7/29/2024 10:15:21	0.0 V	-180.0 V	-90 V
7/26/2024 08:53:52	0.0 V	-190.0 V	-90 V

# Performance Report

Created Date	Extract 1	Extract 2	Omega Bias
7/25/2024 09:09:23	0.0 V	-165.0 V	-90 V
7/24/2024 15:10:09	0.0 V	-185.0 V	-90 V
7/24/2024 08:46:25	0.0 V	-180.0 V	-90 V
7/23/2024 09:32:54	0.0 V	-180.0 V	-90 V
7/22/2024 10:18:30	0.0 V	-185.0 V	-90 V
7/19/2024 08:55:06	0.0 V	-190.0 V	-90 V
7/18/2024 09:06:31	0.0 V	-175.0 V	-90 V
7/17/2024 13:03:52	0.0 V	-185.0 V	-90 V
7/17/2024 08:53:29	0.0 V	-185.0 V	-90 V
7/16/2024 08:54:03	0.0 V	-190.0 V	-90 V
7/15/2024 10:39:29	0.0 V	-195.0 V	-90 V
7/15/2024 10:30:38	0.0 V	-180.0 V	-90 V
7/15/2024 10:13:57	0.0 V	-180.0 V	-90 V
7/15/2024 09:02:48	0.0 V	-185.0 V	-90 V
7/12/2024 08:34:22	0.0 V	-175.0 V	-90 V
7/11/2024 09:57:22	0.0 V	-180.0 V	-80 V
7/10/2024 08:53:17	0.0 V	-150.0 V	-70 V
7/9/2024 11:54:06	0.0 V	-155.0 V	-70 V
7/9/2024 11:32:31	0.0 V	-155.0 V	-70 V
7/9/2024 11:26:38	0.0 V	-155.0 V	-70 V
7/9/2024 10:39:16	0.0 V	-155.0 V	-70 V
7/9/2024 09:17:46	0.0 V	-155.0 V	-70 V
7/9/2024 08:57:06	0.0 V	-140.0 V	-70 V
7/8/2024 09:21:55	0.0 V	-165.0 V	-80 V
7/8/2024 09:16:31	0.0 V	-160.0 V	-80 V
7/5/2024 09:03:10	0.0 V	-200.0 V	-90 V
7/3/2024 13:05:52	0.0 V	-195.0 V	-100 V
7/3/2024 11:25:40	0.0 V	-195.0 V	-90 V
7/3/2024 09:13:37	0.0 V	-195.0 V	-90 V
7/3/2024 08:44:49	0.0 V	-170.0 V	-90 V
7/2/2024 10:26:17	0.0 V	-170.0 V	-90 V
7/2/2024 08:58:12	0.0 V	-170.0 V	-90 V
7/1/2024 14:16:19	0.0 V	-190.0 V	-90 V
7/1/2024 10:01:10	0.0 V	-195.0 V	-90 V
6/28/2024 08:25:22	0.0 V	-195.0 V	-90 V
6/27/2024 08:34:14	0.0 V	-195.0 V	-90 V
6/27/2024 08:11:22	0.0 V	-175.0 V	-90 V
6/26/2024 07:54:24	0.0 V	-175.0 V	-90 V
6/25/2024 09:02:17	0.0 V	-190.0 V	-90 V
6/24/2024 09:30:27	0.0 V	-190.0 V	-90 V
6/21/2024 08:55:34	0.0 V	-200.0 V	-90 V

# Performance Report

Created Date	Extract 1	Extract 2	Omega Bias
6/21/2024 08:22:44	0.0 V	-170.0 V	-90 V
6/20/2024 09:00:43	0.0 V	-170.0 V	-90 V
6/19/2024 07:51:31	0.0 V	-175.0 V	-90 V
6/18/2024 07:52:20	0.0 V	-175.0 V	-90 V
6/17/2024 08:58:45	0.0 V	-175.0 V	-90 V
6/14/2024 08:44:27	0.0 V	-195.0 V	-90 V
6/13/2024 08:42:30	0.0 V	-200.0 V	-100 V
6/12/2024 09:03:47	0.0 V	-200.0 V	-100 V
6/11/2024 08:44:40	0.0 V	-185.0 V	-100 V
6/10/2024 09:31:51	0.0 V	-170.0 V	-90 V
6/10/2024 09:17:04	0.0 V	-165.0 V	-90 V
6/10/2024 09:10:07	0.0 V	-165.0 V	-90 V
6/7/2024 09:02:38	0.0 V	-165.0 V	-90 V
6/6/2024 15:20:20	0.0 V	-165.0 V	-90 V
6/6/2024 05:03:01	0.0 V	-190.0 V	-90 V
6/6/2024 04:59:28	0.0 V	-190.0 V	-90 V
6/5/2024 08:30:26	0.0 V	-190.0 V	-90 V
6/4/2024 08:52:51	0.0 V	-200.0 V	-90 V
6/4/2024 08:39:35	0.0 V	-200.0 V	-100 V
6/4/2024 08:33:37	0.0 V	-200.0 V	-100 V
6/3/2024 10:10:17	0.0 V	-200.0 V	-100 V
6/3/2024 09:51:43	0.0 V	-175.0 V	-100 V
6/3/2024 09:44:54	0.0 V	-175.0 V	-100 V
6/3/2024 09:30:49	0.0 V	-175.0 V	-100 V
5/31/2024 08:42:32	0.0 V	-200.0 V	-100 V
5/30/2024 09:08:46	0.0 V	-200.0 V	-100 V
5/29/2024 09:04:40	0.0 V	-200.0 V	-100 V
5/29/2024 08:48:40	0.0 V	-170.0 V	-80 V
5/29/2024 08:44:08	0.0 V	-170.0 V	-80 V
5/28/2024 09:34:37	0.0 V	-170.0 V	-80 V
5/24/2024 07:20:01	0.0 V	-200.0 V	-90 V
5/23/2024 10:25:13	0.0 V	-200.0 V	-90 V
5/22/2024 09:45:06	0.0 V	-200.0 V	-90 V
5/21/2024 09:06:58	0.0 V	-200.0 V	-90 V
5/21/2024 08:01:17	0.0 V	-200.0 V	-100 V
5/20/2024 17:22:27	0.0 V	-200.0 V	-100 V
5/20/2024 17:18:56	0.0 V	-200.0 V	-100 V
5/20/2024 09:20:56	0.0 V	-200.0 V	-100 V
5/17/2024 09:12:39	0.0 V	-200.0 V	-100 V
5/16/2024 08:56:23	0.0 V	-200.0 V	-100 V
5/15/2024 09:38:13	0.0 V	-200.0 V	-100 V

# Performance Report

Created Date	Extract 1	Extract 2	Omega Bias
5/15/2024 09:21:01	0.0 V	-190.0 V	-90 V
5/14/2024 09:41:16	0.0 V	-190.0 V	-90 V
5/14/2024 09:04:40	0.0 V	-190.0 V	-90 V
5/13/2024 09:04:44	0.0 V	-190.0 V	-90 V
5/10/2024 08:57:17	0.0 V	-190.0 V	-90 V
5/9/2024 09:06:46	0.0 V	-190.0 V	-90 V
5/9/2024 08:50:21	0.0 V	-190.0 V	-90 V
5/9/2024 08:44:20	0.0 V	-190.0 V	-90 V
5/8/2024 09:39:10	0.0 V	-190.0 V	-90 V
5/7/2024 17:05:39	0.0 V	-195.0 V	-100 V
5/7/2024 16:48:43	0.0 V	-195.0 V	-100 V
5/7/2024 09:19:24	0.0 V	-195.0 V	-100 V
5/6/2024 09:15:59	0.0 V	-195.0 V	-100 V
5/6/2024 09:03:10	0.0 V	-195.0 V	-100 V
5/3/2024 09:11:06	0.0 V	-195.0 V	-100 V
5/2/2024 09:48:24	0.0 V	-190.0 V	-100 V
5/1/2024 09:22:54	0.0 V	-185.0 V	-100 V
4/30/2024 10:43:56	0.0 V	-185.0 V	-100 V
4/30/2024 08:17:01	0.0 V	-185.0 V	-100 V
4/29/2024 09:10:57	0.0 V	-185.0 V	-100 V
4/29/2024 08:57:45	0.0 V	-185.0 V	-100 V
4/26/2024 08:09:31	0.0 V	-185.0 V	-100 V
4/25/2024 09:37:51	0.0 V	-185.0 V	-100 V
4/24/2024 09:17:24	0.0 V	-195.0 V	-100 V
4/23/2024 22:46:11	0.0 V	-195.0 V	-100 V
4/23/2024 09:01:59	0.0 V	-195.0 V	-100 V
4/22/2024 10:16:34	0.0 V	-195.0 V	-100 V
4/19/2024 10:59:00	0.0 V	-200.0 V	-100 V
4/19/2024 10:07:48	0.0 V	-200.0 V	-110 V
4/19/2024 09:10:32	0.0 V	-180.0 V	-100 V
4/18/2024 09:24:23	0.0 V	-180.0 V	-100 V
4/17/2024 17:03:53	0.0 V	-180.0 V	-100 V
4/17/2024 16:22:27	0.0 V	-180.0 V	-100 V
4/17/2024 09:09:54	0.0 V	-180.0 V	-100 V
4/16/2024 09:06:44	0.0 V	-200.0 V	-100 V
4/15/2024 09:14:49	0.0 V	-200.0 V	-100 V
4/12/2024 08:28:21	0.0 V	-200.0 V	-100 V
4/11/2024 08:35:01	0.0 V	-200.0 V	-100 V
4/10/2024 09:48:58	0.0 V	-195.0 V	-100 V
4/9/2024 08:56:49	0.0 V	-195.0 V	-100 V
4/8/2024 09:25:48	0.0 V	-195.0 V	-100 V

# Performance Report

Created Date	Extract 1	Extract 2	Omega Bias
4/5/2024 08:28:47	0.0 V	-195.0 V	-100 V
4/4/2024 11:00:01	0.0 V	-190.0 V	-90 V
4/4/2024 10:45:12	0.0 V	-200.0 V	-90 V
4/3/2024 08:29:42	0.0 V	-200.0 V	-90 V
4/2/2024 09:43:44	0.0 V	-195.0 V	-90 V
4/1/2024 09:27:15	0.0 V	-195.0 V	-90 V
3/29/2024 08:53:28	0.0 V	-195.0 V	-90 V
3/28/2024 09:08:20	0.0 V	-195.0 V	-90 V
3/27/2024 16:48:32	0.0 V	-195.0 V	-90 V
3/27/2024 10:07:18	0.0 V	-195.0 V	-90 V
3/27/2024 08:49:30	0.0 V	-195.0 V	-90 V
3/26/2024 10:28:06	0.0 V	-195.0 V	-90 V
3/25/2024 10:10:30	0.0 V	-200.0 V	-100 V
3/22/2024 09:00:45	0.0 V	-190.0 V	-100 V
3/21/2024 08:44:31	0.0 V	-190.0 V	-100 V
3/20/2024 09:03:42	0.0 V	-190.0 V	-100 V
3/19/2024 13:23:15	0.0 V	-190.0 V	-100 V
3/19/2024 09:31:32	0.0 V	-190.0 V	-100 V
3/18/2024 10:47:35	0.0 V	-190.0 V	-100 V
3/15/2024 09:19:25	0.0 V	-200.0 V	-90 V
3/14/2024 09:13:05	0.0 V	-200.0 V	-90 V
3/13/2024 09:22:30	0.0 V	-200.0 V	-90 V
3/12/2024 09:10:39	0.0 V	-200.0 V	-90 V
3/11/2024 11:07:32	0.0 V	-200.0 V	-90 V
3/11/2024 09:31:05	0.0 V	-195.0 V	-100 V
3/11/2024 09:27:33	0.0 V	-195.0 V	-100 V
3/8/2024 08:29:13	0.0 V	-200.0 V	-100 V
3/7/2024 17:46:09	0.0 V	-200.0 V	-100 V
3/7/2024 13:19:13	0.0 V	-200.0 V	-100 V
3/7/2024 09:28:32	0.0 V	-200.0 V	-100 V
3/7/2024 09:11:32	0.0 V	-200.0 V	-100 V
3/7/2024 09:01:08	0.0 V	-200.0 V	-100 V
3/6/2024 10:19:40	0.0 V	-200.0 V	-100 V
3/5/2024 10:15:16	0.0 V	-200.0 V	-100 V
3/5/2024 10:09:01	0.0 V	-200.0 V	-100 V
3/4/2024 11:41:00	0.0 V	-200.0 V	-100 V
3/4/2024 11:28:21	0.0 V	-200.0 V	-100 V
3/1/2024 08:43:28	0.0 V	-200.0 V	-120 V
2/29/2024 10:38:23	0.0 V	-200.0 V	-120 V
2/29/2024 10:00:25	0.0 V	-160.0 V	-110 V
2/29/2024 09:54:15	0.0 V	-160.0 V	-110 V

# Performance Report

Created Date	Extract 1	Extract 2	Omega Bias
2/28/2024 09:32:01	0.0 V	-200.0 V	-100 V
2/27/2024 09:16:47	0.0 V	-200.0 V	-100 V
2/26/2024 10:30:35	0.0 V	-200.0 V	-100 V
2/26/2024 10:00:21	0.0 V	-200.0 V	-110 V
2/23/2024 09:07:38	0.0 V	-200.0 V	-110 V
2/22/2024 08:58:48	0.0 V	-200.0 V	-110 V
2/21/2024 09:51:13	0.0 V	-200.0 V	-110 V
2/20/2024 09:59:52	0.0 V	-200.0 V	-110 V
2/19/2024 11:30:32	0.0 V	-200.0 V	-110 V
2/19/2024 11:27:00	0.0 V	-200.0 V	-110 V
2/19/2024 10:16:07	0.0 V	-200.0 V	-120 V
2/16/2024 10:28:26	0.0 V	-200.0 V	-120 V
2/15/2024 09:20:58	0.0 V	-200.0 V	-120 V
2/14/2024 09:20:12	0.0 V	-200.0 V	-120 V
2/13/2024 10:44:41	0.0 V	-200.0 V	-120 V
2/13/2024 10:29:18	0.0 V	-200.0 V	-120 V
2/12/2024 11:24:46	0.0 V	-200.0 V	-120 V
2/12/2024 11:09:08	0.0 V	-175.0 V	-120 V
2/12/2024 10:33:45	0.0 V	-175.0 V	-120 V
2/12/2024 10:19:52	0.0 V	-175.0 V	-120 V
2/12/2024 10:03:02	0.0 V	-200.0 V	-100 V
2/9/2024 09:43:26	0.0 V	-200.0 V	-100 V
2/8/2024 09:41:08	0.0 V	-200.0 V	-100 V
2/7/2024 09:08:34	0.0 V	-200.0 V	-100 V
2/6/2024 10:08:14	0.0 V	-200.0 V	-100 V
2/5/2024 16:27:35	0.0 V	-200.0 V	-120 V
2/2/2024 09:52:22	0.0 V	-200.0 V	-90 V
2/1/2024 09:29:20	0.0 V	-200.0 V	-90 V
1/31/2024 11:01:25	0.0 V	-200.0 V	-90 V
1/31/2024 10:56:52	0.0 V	-200.0 V	-90 V
1/30/2024 09:04:33	0.0 V	-200.0 V	-90 V
1/29/2024 09:09:33	0.0 V	-200.0 V	-90 V
1/26/2024 10:08:59	0.0 V	-200.0 V	-90 V
1/25/2024 09:54:25	0.0 V	-200.0 V	-90 V
1/24/2024 08:52:40	0.0 V	-200.0 V	-90 V
1/23/2024 11:08:41	0.0 V	-200.0 V	-90 V
1/22/2024 09:17:23	0.0 V	-200.0 V	-90 V
1/22/2024 09:06:26	0.0 V	-200.0 V	-100 V
1/19/2024 09:01:45	0.0 V	-200.0 V	-100 V
1/18/2024 10:29:20	0.0 V	-200.0 V	-100 V
1/17/2024 08:52:45	0.0 V	-200.0 V	-100 V

# Performance Report

Created Date	Extract 1	Extract 2	Omega Bias
1/16/2024 14:09:54	0.0 V	-200.0 V	-100 V
1/16/2024 13:58:35	0.0 V	-200.0 V	-100 V
1/16/2024 13:45:11	0.0 V	-200.0 V	-100 V
1/15/2024 13:03:28	0.0 V	-200.0 V	-120 V
1/15/2024 10:46:25	0.0 V	-200.0 V	-120 V
1/15/2024 10:34:05	0.0 V	-200.0 V	-120 V
1/15/2024 10:25:28	0.0 V	-200.0 V	-120 V
1/15/2024 09:48:32	0.0 V	-200.0 V	-120 V
1/15/2024 09:32:45	0.0 V	-200.0 V	-120 V
1/11/2024 14:10:39	0.0 V	-200.0 V	-120 V
1/11/2024 14:00:32	0.0 V	-200.0 V	-120 V
1/11/2024 13:07:14	0.0 V	-200.0 V	-120 V
1/11/2024 12:18:32	0.0 V	-200.0 V	-120 V
1/11/2024 10:36:51	0.0 V	-200.0 V	-120 V
1/11/2024 10:28:26	0.0 V	-185.0 V	-110 V
1/11/2024 09:11:58	0.0 V	-155.0 V	-100 V
1/11/2024 09:02:27	0.0 V	-150.0 V	-80 V
1/11/2024 08:54:00	0.0 V	-150.0 V	-80 V
1/10/2024 09:10:40	0.0 V	-200.0 V	-90 V
1/9/2024 12:58:05	0.0 V	-200.0 V	-120 V
1/9/2024 12:49:35	0.0 V	-200.0 V	-120 V
1/9/2024 12:37:33	0.0 V	-165.0 V	-100 V
1/9/2024 12:22:55	0.0 V	-165.0 V	-100 V
1/9/2024 12:00:03	0.0 V	-165.0 V	-100 V
1/9/2024 11:54:42	0.0 V	-165.0 V	-100 V
1/9/2024 11:45:17	0.0 V	-165.0 V	-100 V
1/9/2024 11:40:53	0.0 V	-165.0 V	-100 V
1/9/2024 11:25:08	0.0 V	-165.0 V	-100 V
1/9/2024 11:20:04	0.0 V	-165.0 V	-100 V
1/8/2024 13:49:37	0.0 V	-200.0 V	-100 V
1/8/2024 12:34:48	0.0 V	-140.0 V	-80 V
1/8/2024 12:30:18	0.0 V	-140.0 V	-80 V
1/5/2024 09:35:49	0.0 V	-180.0 V	-80 V
1/4/2024 09:13:21	0.0 V	-170.0 V	-80 V
1/4/2024 09:00:57	0.0 V	-160.0 V	-80 V
1/3/2024 08:46:17	0.0 V	-200.0 V	-100 V
1/2/2024 11:16:48	0.0 V	-200.0 V	-90 V
1/2/2024 10:38:17	0.0 V	-200.0 V	-100 V
12/29/2023 10:12:49	0.0 V	-200.0 V	-100 V
12/28/2023 08:59:35	0.0 V	-200.0 V	-90 V
12/27/2023 12:20:02	0.0 V	-200.0 V	-90 V



# Performance Report

Created Date	Extract 1	Extract 2	Omega Bias
12/27/2023 11:34:32	0.0 V	-200.0 V	-90 V
12/27/2023 10:51:04	0.0 V	-200.0 V	-90 V
12/27/2023 10:41:08	0.0 V	-200.0 V	-90 V
12/27/2023 10:33:50	0.0 V	-200.0 V	-90 V
12/27/2023 10:28:28	0.0 V	-200.0 V	-90 V
12/22/2023 07:49:52	0.0 V	-195.0 V	-90 V
12/21/2023 08:44:43	0.0 V	-200.0 V	-90 V
12/20/2023 09:26:41	0.0 V	-200.0 V	-100 V
12/19/2023 09:55:37	0.0 V	-200.0 V	-100 V
12/18/2023 10:16:18	0.0 V	-200.0 V	-100 V
12/18/2023 10:06:38	0.0 V	-185.0 V	-90 V
12/18/2023 10:00:26	0.0 V	-185.0 V	-90 V
12/15/2023 09:45:55	0.0 V	-200.0 V	-90 V
12/14/2023 10:23:15	0.0 V	-200.0 V	-90 V
12/13/2023 10:17:40	0.0 V	-200.0 V	-90 V
12/12/2023 09:56:00	0.0 V	-200.0 V	-90 V
12/11/2023 10:31:48	0.0 V	-200.0 V	-90 V
12/8/2023 10:10:39	0.0 V	-200.0 V	-100 V
12/7/2023 09:51:50	0.0 V	-190.0 V	-80 V
12/6/2023 10:12:37	0.0 V	-200.0 V	-100 V
12/5/2023 10:02:14	0.0 V	-200.0 V	-80 V
12/4/2023 12:08:53	0.0 V	-180.0 V	-90 V
12/4/2023 11:24:17	0.0 V	-145.0 V	-70 V
12/4/2023 11:20:06	0.0 V	-145.0 V	-70 V
12/4/2023 11:16:06	0.0 V	-145.0 V	-70 V
12/4/2023 10:23:39	0.0 V	-145.0 V	-70 V
12/4/2023 10:16:55	0.0 V	-170.0 V	-90 V
12/4/2023 10:09:27	0.0 V	-145.0 V	-70 V
12/1/2023 09:45:19	0.0 V	-155.0 V	-80 V
11/30/2023 11:48:17	0.0 V	-155.0 V	-80 V
11/30/2023 11:13:01	0.0 V	-150.0 V	-80 V
11/30/2023 11:05:44	0.0 V	-160.0 V	-90 V
11/30/2023 10:33:46	0.0 V	-170.0 V	-90 V
11/29/2023 10:04:26	0.0 V	-195.0 V	-100 V
11/29/2023 09:51:22	0.0 V	-190.0 V	-80 V
11/28/2023 12:50:37	0.0 V	-200.0 V	-80 V
11/28/2023 12:18:55	0.0 V	-175.0 V	-80 V
11/28/2023 12:15:04	0.0 V	-175.0 V	-80 V
11/28/2023 11:49:24	0.0 V	-170.0 V	-80 V
11/28/2023 10:22:53	0.0 V	-165.0 V	-80 V
11/28/2023 10:19:03	0.0 V	-165.0 V	-80 V

# Performance Report

Created Date	Extract 1	Extract 2	Omega Bias
11/28/2023 10:15:20	0.0 V	-165.0 V	-80 V
11/28/2023 09:59:37	0.0 V	-170.0 V	-70 V
11/27/2023 10:28:48	0.0 V	-165.0 V	-80 V
11/27/2023 10:07:16	0.0 V	-185.0 V	-100 V
11/27/2023 10:01:25	0.0 V	-185.0 V	-100 V
11/27/2023 09:52:06	0.0 V	-185.0 V	-100 V
11/22/2023 09:50:47	0.0 V	-155.0 V	-80 V
11/21/2023 09:52:05	0.0 V	-155.0 V	-80 V
11/20/2023 09:38:08	0.0 V	-150.0 V	-80 V
11/17/2023 10:07:38	0.0 V	-175.0 V	-90 V
11/16/2023 09:42:56	0.0 V	-180.0 V	-90 V
11/15/2023 13:01:45	0.0 V	-170.0 V	-90 V
11/15/2023 12:33:52	0.0 V	-175.0 V	-90 V
11/15/2023 12:27:35	0.0 V	-175.0 V	-90 V
11/15/2023 12:17:35	0.0 V	-175.0 V	-90 V
11/15/2023 12:09:42	0.0 V	-170.0 V	-90 V
11/15/2023 10:39:09	0.0 V	-175.0 V	-90 V
11/14/2023 10:25:03	0.0 V	-200.0 V	-90 V
11/13/2023 09:42:07	0.0 V	-200.0 V	-90 V
11/10/2023 09:15:37	0.0 V	-200.0 V	-90 V
11/9/2023 09:55:52	0.0 V	-200.0 V	-90 V
11/8/2023 09:55:56	0.0 V	-200.0 V	-100 V
11/7/2023 10:07:52	0.0 V	-200.0 V	-120 V
11/7/2023 10:01:12	0.0 V	-195.0 V	-90 V
11/7/2023 09:55:11	0.0 V	-195.0 V	-90 V
11/6/2023 10:21:52	0.0 V	-200.0 V	-100 V
11/3/2023 09:44:39	0.0 V	-200.0 V	-120 V
11/2/2023 09:56:11	0.0 V	-200.0 V	-90 V
11/1/2023 09:41:33	0.0 V	-195.0 V	-90 V

# US EPA Tune Check Report

**Operator Name** ICPMS  
**Acq/Data Batch** D:\Agilent\ICPMH\1\DATA\240822ME.b  
**Acq. Date-Time** 8/22/2024 12:08:50  
**Report Comment** ---  
**Instrument Name** G8422A SG22151236

[No Gas]

**Sensitivity**

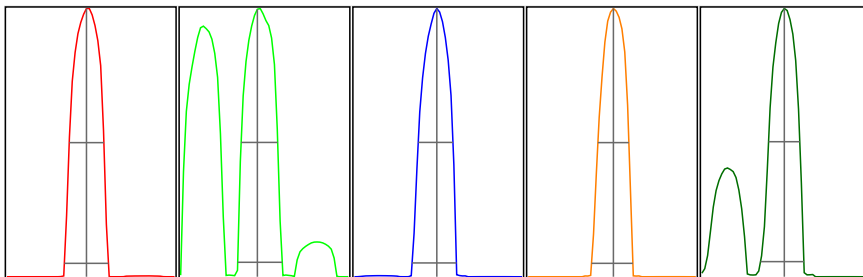
Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/(ug/l)]	Resp (Flag)	RSD%	RSD% (Required)
9	10.00	34197	341965.37			0.787	5.000
24	10.00	172843	1728429.24			2.339	5.000
59	10.00	277800	2778004.68			1.686	5.000
115	10.00	392006	3920057.73			0.927	5.000
208	10.00	187597	1875968.92			1.855	5.000

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	34133	33786	34204	34495	34365
24	176484	175234	166067	172887	173544
59	275973	279522	284987	272718	275803
115	389843	398230	392222	389507	390227
208	188978	183268	186980	192625	186133

Integration Time [sec] 0.1

**Resolution/Axis**



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	59352.36	8.95	8.90 - 9.10	
24	282742.92	23.90	23.90 - 24.10	
59	484397.34	59.00	58.90 - 59.10	
115	746949.81	115.05	114.90 - 115.10	
208	351560.91	208.00	207.90 - 208.10	

# US EPA Tune Check Report

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.61	0.777	0.900	
24	0.64	0.784	0.900	
59	0.61	0.780	0.900	
115	0.54	0.728	0.900	
208	0.55	0.763	0.900	

Integration Time [sec]      0.1  
 Acquisition Time [sec]    153.69999999999999  
 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	4.6 V	Deflect	11.4 V
Extract 2	-75.0 V	Cell Entrance	-30 V	Plate Bias	-35 V
Omega Bias	-40 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	0.9993	QP Bias	-3.0 V
Mass Offset	125	Axis Offset	0.03		

**Hardware Settings**

**Torch**

Torch H	0.3 mm	Torch V	-0.1 mm
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**EM**

Discriminator	3.1 mV	Analog HV	2156 V	Pulse HV	1535 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	3840	38400.91			1.171	5.000
59	10.00	84379	843785.89			1.605	5.000
115	10.00	111991	1119909.61			0.755	5.000
208	10.00	159307	1593071.10			0.720	5.000

Mass	RSD% (Flag)
24	
59	

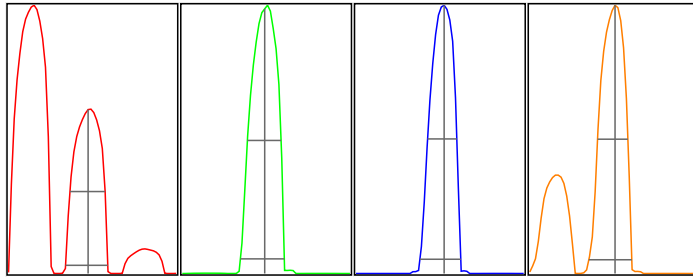
# US EPA Tune Check Report

Mass	RSD% (Flag)
115	
208	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
24	3863	3838	3874	3763	3862
59	85034	81972	84754	85188	84944
115	112702	110764	111768	111849	112872
208	160914	158538	158749	158235	160100

Integration Time [sec]      0.1

**Resolution/Axis**



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
24	6586.77	23.95	23.90 - 24.10	
59	148911.09	59.00	58.90 - 59.10	
115	223654.78	115.10	114.90 - 115.10	
208	307785.18	208.05	207.90 - 208.10	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
24	0.62	0.743	0.900	
59	0.59	0.773	0.900	
115	0.51	0.719	0.900	
208	0.53	0.756	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	1.2 V
Extract 2	-195.0 V	Cell Entrance	-40 V	Plate Bias	-55 V
Omega Bias	-95 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	0.03		

## Hardware Settings

### Torch

Torch H	0.3 mm	Torch V	-0.1 mm
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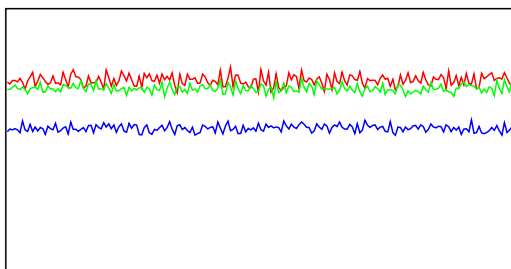
### EM

Discriminator	3.1 mV	Analog HV	2156 V	Pulse HV	1535 V
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# Performance Report

**Operator Name** ICPMS  
**Acq. Date-Time** 8/22/2024 08:43:54  
**Instrument Name** G8422A SG22151236  
**Sample Introduction** PeriPump  
**Nebulizer Type** MicroMist  
**Ion Lens Model** x-Lens  
**Tune Parameters** Standard Tune

## Sensitivity



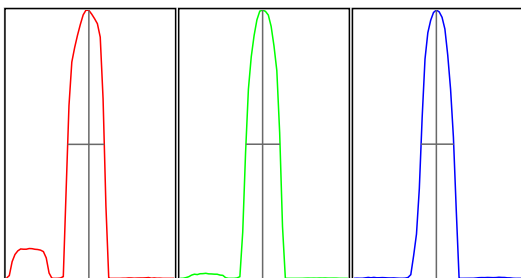
Mass	Range	Count	RSD%	Background
7	5000	3662	2.761	1.050
89	20000	14009	2.100	0.850
205	20000	10981	2.413	3.250

Sampling Period [sec] 0.311  
 Integration Time [sec] 0.1

## Oxide/Doubly Charged Ratio

Oxide 156 / 140 1.114 %  
 Doubly Charged 70 / 140 1.264 %

## Resolution/Axis



Mass	Peak Height	Axis	W-50%	W-10%
7	3679.60	7.00	0.64	0.77
89	14004.49	89.00	0.60	0.75
205	10974.66	205.00	0.57	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	1.09 L/min				

### Lens Parameters

Extract 1	0.0 V	Omega Lens	8.0 V	Deflect	12.2 V
Extract 2	-160.0 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	0.3 mm	Torch H (Hot)	---	Torch H (Cool)	---
Torch V	-0.1 mm	Torch V (Hot)	---	Torch V (Cool)	---

### Plasma Correction

Nebulizer Gas Offset	0.04 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	0.03

### EM

Discriminator	3.1 mV	Analog HV	2156 V	Pulse HV	1535 V
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# Performance Report

## Meter

Name	Value	Unit
Nebulizer Gas	1.09	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	5.59E+2	kPa
+5V (Press Gage)	5.0	V
Ar AMFC Temp	29.4	°C
Nebulizer Gas(DP)	5.77E+0	kPa
MU./Dil. Gas(DP)	-1.54E-1	kPa
Aux Gas(DP)	1.07E+1	kPa
Plasma Gas(DP)	1.17E+1	kPa
Nebulizer Gas(BP)	3.09E+2	kPa
MU./Dil. Gas(BP)	3.09E-1	kPa
Aux Gas(BP)	5.93E+1	kPa
Plasma Gas(BP)	4.28E+1	kPa
S/C Temp (H)	21.1	°C
S/C Temp (L)	2.0	°C
Peltier Voltage	3.6	V
IF/BK Press	2.55E+2	Pa
Analyzer Press	5.50E-5	Pa
IG HV	178	V
IG Emission	4.98	µA
TMP Revolution	100.0	%
TMP Rev (Raw)	100.6	%
TMP Current	2.84	A
PWR AMP Drain I	0.4	A
PWR AMP Bias	4.02	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.	4.2	V
+U Voltage	172.7	V

Name	Value	Unit
-U Voltage	-179.9	V
V Voltage	773.4	V
QPRF Fader	0.5	V
Pickup Temp	55.0	°C
PWR Amp Temp	0.1	V
+600V	620.2	V
-120V	-132.9	V
-720V	-741.5	V
Prefilter Bias	-4.94	V
Pickup Heater I	0.09	A
QP PS +48V	47.5	V
QP PS +48V I	0.00	A
Analog HV	-2163	V
Pulse HV	1547	V
EM Gate	-47.2	V
Pulse Gate	339.6	V
EM Entrance	0.1	V
EM HV Gain	-779.3	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)	59.7	V
RF PS +48V	47.4	V
Forward Power	1550	W
Reflected Power	3	W
Plasma Freq.	27.06	MHz
Drain I 1	11.61	A
Drain I 2	10.51	A
Drain I 3	10.89	A
Drain I 4	11.47	A
Temp Sensor	2.8	V
Driver I	6.14	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	5.6	V
PWM Threshold	0.2	V
Phase Detector	0.0	mV
H2 Gas	0.00	mL/min
He Gas	0.12	mL/min
H2 Gas Press	1.70E+2	kPa
He Gas Press	0.00E+0	kPa
ORS AMFC Temp	29.4	°C
Atmospheric Press	1.01E+2	kPa
Extract 1	0.0	V
Extract 2	-160.0	V
Omega Bias	-70.0	V
Omega Lens	8.1	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	25.8	°C
Internal Temp	34.7	°C
+24V	23.7	V
Water Temp	22.6	°C
Water RF/WC/IF	1.47	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
8/22/2024 08:43:54	3662	14009	10981
8/21/2024 08:04:13	3190	14776	11594
8/20/2024 09:20:37	4220	16080	10288
8/19/2024 10:25:21	3050	10181	8067
8/19/2024 09:17:03	3195	9903	8321
8/16/2024 08:56:38	3253	15296	12175
8/15/2024 08:28:01	3146	14138	12111
8/14/2024 08:24:41	3158	13973	11673
8/13/2024 08:51:41	3023	15070	13056
8/12/2024 09:10:43	3411	12432	11805
8/12/2024 08:57:52	1786	5237	5122
8/9/2024 11:39:50	3767	15758	13022
8/9/2024 10:08:20	12	1	3
8/8/2024 08:40:39	3024	12546	9719
8/7/2024 09:19:16	2917	12165	9488
8/6/2024 11:12:44	2859	11998	10016
8/6/2024 10:53:38	2232	10655	9558
8/5/2024 10:40:17	2691	10635	9226
8/5/2024 10:09:19	2125	6835	5664
8/5/2024 09:55:23	2365	7939	6556
8/2/2024 09:40:16	3340	11024	9295
8/2/2024 08:37:48	3505	10692	8586
8/1/2024 10:38:00	3758	12250	9330
8/1/2024 09:06:45	3389	10556	9761
7/31/2024 08:13:58	3039	11937	9529
7/30/2024 08:50:51	2533	10165	9332
7/29/2024 16:06:05	3222	12529	9934
7/29/2024 12:07:28	3037	11992	10136
7/29/2024 11:14:31	3174	12095	10013
7/29/2024 10:15:21	2846	11965	10483
7/26/2024 08:53:52	3203	12639	10549
7/25/2024 09:09:23	2585	8526	8080
7/24/2024 15:10:09	3079	9987	9009
7/24/2024 08:46:25	3148	11490	9796
7/23/2024 09:32:54	3357	11492	9580
7/22/2024 10:18:30	3442	12004	11023
7/19/2024 08:55:06	3486	11885	10185
7/18/2024 09:06:31	3257	9447	8888
7/17/2024 13:03:52	2495	9473	8373
7/17/2024 08:53:29	2867	10755	8619
7/16/2024 08:54:03	2886	10903	8985

# Performance Report

Created Date	Channel 1 Count	Channel 2 Count	Channel 3 Count
7/15/2024 10:39:29	2656	10995	8921
7/15/2024 10:30:38	103	5	6
7/15/2024 10:13:57	1404	5260	4224
7/15/2024 09:02:48	3268	12919	10156
7/12/2024 08:34:22	2706	11570	8940
7/11/2024 09:57:22	2727	11970	8459
7/10/2024 08:53:17	2246	9073	7312
7/9/2024 11:54:06	3038	12303	9808
7/9/2024 11:32:31	2139	7705	5834
7/9/2024 11:26:38	2090	7758	5904
7/9/2024 10:39:16	3437	12816	9591
7/9/2024 09:17:46	2577	11478	8879
7/9/2024 08:57:06	3286	13034	8974
7/8/2024 09:21:55	3166	12745	9642
7/8/2024 09:16:31	3066	12665	9668
7/5/2024 09:03:10	3288	13628	11266
7/3/2024 13:05:52	3539	13046	10137
7/3/2024 11:25:40	3213	12344	9957
7/3/2024 09:13:37	3169	12570	10423
7/3/2024 08:44:49	2051	12221	9873
7/2/2024 10:26:17	2328	11750	10360
7/2/2024 08:58:12	3072	10344	9707
7/1/2024 14:16:19	3282	10802	9231
7/1/2024 10:01:10	3288	12796	10476
6/28/2024 08:25:22	3484	12596	10301
6/27/2024 08:34:14	3474	12721	10120
6/27/2024 08:11:22	1666	11338	9258
6/26/2024 07:54:24	2501	8288	8428
6/25/2024 09:02:17	2627	12790	10975
6/24/2024 09:30:27	2976	12050	10056
6/21/2024 08:55:34	3096	13175	9957
6/21/2024 08:22:44	1280	11401	9041
6/20/2024 09:00:43	2564	9588	8694
6/19/2024 07:51:31	2980	11922	9704
6/18/2024 07:52:20	3296	11922	9824
6/17/2024 08:58:45	3009	9463	9003
6/14/2024 08:44:27	2879	12214	10357
6/13/2024 08:42:30	3176	12682	10526
6/12/2024 09:03:47	2996	12633	11312
6/11/2024 08:44:40	3492	13252	10118
6/10/2024 09:31:51	4111	13060	10421

# Performance Report

Created Date	Channel 1 Count	Channel 2 Count	Channel 3 Count
6/10/2024 09:17:04	3508	11070	8441
6/10/2024 09:10:07	3930	12555	9564
6/7/2024 09:02:38	3417	11597	7618
6/6/2024 15:20:20	2950	9649	8247
6/6/2024 05:03:01	3480	13184	11025
6/6/2024 04:59:28	3438	13257	11014
6/5/2024 08:30:26	3575	12412	10789
6/4/2024 08:52:51	3401	12310	11419
6/4/2024 08:39:35	2814	11768	10904
6/4/2024 08:33:37	3060	12687	11246
6/3/2024 10:10:17	3272	10175	10494
6/3/2024 09:51:43	1907	6599	4712
6/3/2024 09:44:54	2209	7627	5199
6/3/2024 09:30:49	3299	9738	9247
5/31/2024 08:42:32	3301	13328	10713
5/30/2024 09:08:46	3406	13401	10419
5/29/2024 09:04:40	3587	13162	10590
5/29/2024 08:48:40	1739	11664	8844
5/29/2024 08:44:08	1858	12854	9297
5/28/2024 09:34:37	3138	12513	10682
5/24/2024 07:20:01	3325	12857	11044
5/23/2024 10:25:13	3407	12821	11140
5/22/2024 09:45:06	3583	12763	11601
5/21/2024 09:06:58	3752	13803	11837
5/21/2024 08:01:17	3966	14413	11053
5/20/2024 17:22:27	3645	10846	9662
5/20/2024 17:18:56	3613	10801	9645
5/20/2024 09:20:56	3333	12566	10681
5/17/2024 09:12:39	3467	13701	10660
5/16/2024 08:56:23	3599	13565	10699
5/15/2024 09:38:13	3581	13159	10227
5/15/2024 09:21:01	1917	11948	9850
5/14/2024 09:41:16	3346	12368	10966
5/14/2024 09:04:40	3206	11414	12297
5/13/2024 09:04:44	2639	15138	12300
5/10/2024 08:57:17	2178	13865	10279
5/9/2024 09:06:46	2313	13292	10727
5/9/2024 08:50:21	1763	12142	9522
5/9/2024 08:44:20	1789	12171	9682
5/8/2024 09:39:10	3313	11092	11044
5/7/2024 17:05:39	3463	13115	10886

# Performance Report

Created Date	Channel 1 Count	Channel 2 Count	Channel 3 Count
5/7/2024 16:48:43	3264	12073	10628
5/7/2024 09:19:24	3347	12706	11167
5/6/2024 09:15:59	3892	14499	12724
5/6/2024 09:03:10	3843	14665	13481
5/3/2024 09:11:06	3540	13100	11548
5/2/2024 09:48:24	3670	12233	11836
5/1/2024 09:22:54	4036	13686	11251
4/30/2024 10:43:56	4361	13605	11359
4/30/2024 08:17:01	4350	13793	11664
4/29/2024 09:10:57	4751	14089	11140
4/29/2024 08:57:45	3329	9292	6892
4/26/2024 08:09:31	5054	14978	10788
4/25/2024 09:37:51	4308	13902	11794
4/24/2024 09:17:24	4876	17662	12102
4/23/2024 22:46:11	4199	16180	12059
4/23/2024 09:01:59	3715	15592	11876
4/22/2024 10:16:34	4292	15978	13578
4/19/2024 10:59:00	3974	16385	11540
4/19/2024 10:07:48	2645	8439	3189
4/19/2024 09:10:32	360162	657303	2022720
4/18/2024 09:24:23	3369	17060	12485
4/17/2024 17:03:53	2828	16000	10229
4/17/2024 16:22:27	2262	14213	9009
4/17/2024 09:09:54	3608	12353	11595
4/16/2024 09:06:44	4046	14969	11814
4/15/2024 09:14:49	4139	16052	12083
4/12/2024 08:28:21	4666	17208	13280
4/11/2024 08:35:01	4138	17113	13613
4/10/2024 09:48:58	4018	16844	14484
4/9/2024 08:56:49	3881	15432	13181
4/8/2024 09:25:48	4035	16790	14224
4/5/2024 08:28:47	3893	17251	13416
4/4/2024 11:00:01	2778	10338	7494
4/4/2024 10:45:12	4028	16465	14158
4/3/2024 08:29:42	3630	16640	12452
4/2/2024 09:43:44	3046	17903	13815
4/1/2024 09:27:15	3194	17804	13701
3/29/2024 08:53:28	2520	17006	12384
3/28/2024 09:08:20	2920	17324	12995
3/27/2024 16:48:32	3382	17176	12605
3/27/2024 10:07:18	3661	16126	12723

# Performance Report

Created Date	Channel 1 Count	Channel 2 Count	Channel 3 Count
3/27/2024 08:49:30	3929	17060	12992
3/26/2024 10:28:06	4590	16054	14855
3/25/2024 10:10:30	4003	18464	13973
3/22/2024 09:00:45	2984	17875	12893
3/21/2024 08:44:31	3167	17829	13067
3/20/2024 09:03:42	3080	17089	12389
3/19/2024 13:23:15	3786	17505	12877
3/19/2024 09:31:32	3279	17943	12421
3/18/2024 10:47:35	4608	16508	13822
3/15/2024 09:19:25	2446	16491	10868
3/14/2024 09:13:05	2441	16585	10800
3/13/2024 09:22:30	2903	16825	11325
3/12/2024 09:10:39	2653	17105	11709
3/11/2024 11:07:32	4200	16181	13057
3/11/2024 09:31:05	4293	17257	11986
3/11/2024 09:27:33	4322	17396	12106
3/8/2024 08:29:13	4145	16244	11704
3/7/2024 17:46:09	4185	15148	11811
3/7/2024 13:19:13	4029	15848	11265
3/7/2024 09:28:32	3605	13491	9204
3/7/2024 09:11:32	2580	13526	10298
3/7/2024 09:01:08	2698	13846	10718
3/6/2024 10:19:40	3208	14488	10724
3/5/2024 10:15:16	273	1743	2387
3/5/2024 10:09:01	146	892	1334
3/4/2024 11:41:00	4063	15365	11233
3/4/2024 11:28:21	1954	9059	5433
3/1/2024 08:43:28	2996	15512	8966
2/29/2024 10:38:23	4306	15354	11334
2/29/2024 10:00:25	554	3889	4359
2/29/2024 09:54:15	506	3359	3784
2/28/2024 09:32:01	3061	18229	13084
2/27/2024 09:16:47	2827	17549	11855
2/26/2024 10:30:35	3971	16379	11179
2/26/2024 10:00:21	1827	10055	6679
2/23/2024 09:07:38	3382	16511	11230
2/22/2024 08:58:48	3065	15604	10264
2/21/2024 09:51:13	3455	16190	11543
2/20/2024 09:59:52	3253	15976	11176
2/19/2024 11:30:32	4894	17240	13782
2/19/2024 11:27:00	4856	17120	13743

# Performance Report

Created Date	Channel 1 Count	Channel 2 Count	Channel 3 Count
2/19/2024 10:16:07	4289	15395	10107
2/16/2024 10:28:26	3613	15969	9007
2/15/2024 09:20:58	4185	16564	9371
2/14/2024 09:20:12	4712	16825	9695
2/13/2024 10:44:41	4401	16379	9098
2/13/2024 10:29:18	758	13401	11559
2/12/2024 11:24:46	2301	15124	11918
2/12/2024 11:09:08	53	2239	4028
2/12/2024 10:33:45	42	1954	3702
2/12/2024 10:19:52	438	2663	2740
2/12/2024 10:03:02	137	541	1027
2/9/2024 09:43:26	2475	17092	10562
2/8/2024 09:41:08	2739	17007	11011
2/7/2024 09:08:34	2949	17251	11332
2/6/2024 10:08:14	3266	17222	10352
2/5/2024 16:27:35	2590	11801	7811
2/2/2024 09:52:22	4247	15989	11850
2/1/2024 09:29:20	4221	15873	11923
1/31/2024 11:01:25	4619	16449	12370
1/31/2024 10:56:52	2140	7715	5751
1/30/2024 09:04:33	4439	15663	11799
1/29/2024 09:09:33	3916	13763	12278
1/26/2024 10:08:59	3557	15191	9410
1/25/2024 09:54:25	3735	15427	9753
1/24/2024 08:52:40	3752	15257	10201
1/23/2024 11:08:41	3473	15039	10359
1/22/2024 09:17:23	4075	16149	10348
1/22/2024 09:06:26	2984	12293	7869
1/19/2024 09:01:45	3434	14536	9100
1/18/2024 10:29:20	3342	14635	9148
1/17/2024 08:52:45	3752	15881	10390
1/16/2024 14:09:54	4332	14365	9878
1/16/2024 13:58:35	1849	8752	5553
1/16/2024 13:45:11	1759	8747	5733
1/15/2024 13:03:28	344	1843	2376
1/15/2024 10:46:25	310	1953	2595
1/15/2024 10:34:05	355	1945	2594
1/15/2024 10:25:28	354	1906	2502
1/15/2024 09:48:32	378	1867	2261
1/15/2024 09:32:45	371	1842	2272
1/11/2024 14:10:39	440	1388	1671

# Performance Report

Created Date	Channel 1 Count	Channel 2 Count	Channel 3 Count
1/11/2024 14:00:32	442	1331	1629
1/11/2024 13:07:14	441	1073	1309
1/11/2024 12:18:32	442	1296	1595
1/11/2024 10:36:51	468	1469	1987
1/11/2024 10:28:26	430	1428	1696
1/11/2024 09:11:58	387	1869	2263
1/11/2024 09:02:27	313	1592	1975
1/11/2024 08:54:00	310	1559	1944
1/10/2024 09:10:40	3490	14986	10982
1/9/2024 12:58:05	4349	14607	8180
1/9/2024 12:49:35	715	10779	7642
1/9/2024 12:37:33	8	1202	6143
1/9/2024 12:22:55	8	1215	6181
1/9/2024 12:00:03	8	1341	6546
1/9/2024 11:54:42	9	1280	6372
1/9/2024 11:45:17	9	1382	6594
1/9/2024 11:40:53	10	1397	6617
1/9/2024 11:25:08	362	1545	1665
1/9/2024 11:20:04	363	1540	1650
1/8/2024 13:49:37	3408	10281	9523
1/8/2024 12:34:48	1155	5021	6450
1/8/2024 12:30:18	1191	5187	6341
1/5/2024 09:35:49	3668	12692	8070
1/4/2024 09:13:21	3867	12894	6927
1/4/2024 09:00:57	603	1935	1257
1/3/2024 08:46:17	3809	12778	9107
1/2/2024 11:16:48	3519	12397	9390
1/2/2024 10:38:17	3814	12293	8842
12/29/2023 10:12:49	4013	12649	8816
12/28/2023 08:59:35	3766	13387	9586
12/27/2023 12:20:02	3809	12937	8800
12/27/2023 11:34:32	40	9	2
12/27/2023 10:51:04	55	31	2
12/27/2023 10:41:08	72	37	8
12/27/2023 10:33:50	3879	13288	8945
12/27/2023 10:28:28	3772	13183	8580
12/22/2023 07:49:52	3943	11892	9924
12/21/2023 08:44:43	3526	13027	9943
12/20/2023 09:26:41	4003	13172	10074
12/19/2023 09:55:37	4333	13694	10285
12/18/2023 10:16:18	4138	13763	10818



# Performance Report

Created Date	Channel 1 Count	Channel 2 Count	Channel 3 Count
12/18/2023 10:06:38	3415	13014	10962
12/18/2023 10:00:26	3894	14384	11204
12/15/2023 09:45:55	3734	14030	9513
12/14/2023 10:23:15	3524	14113	9600
12/13/2023 10:17:40	3829	13996	9570
12/12/2023 09:56:00	3555	14240	9677
12/11/2023 10:31:48	3701	14394	9382
12/8/2023 10:10:39	3664	14293	8929
12/7/2023 09:51:50	3426	13353	8809
12/6/2023 10:12:37	3698	14579	8824
12/5/2023 10:02:14	3349	13427	9922
12/4/2023 12:08:53	3427	12418	10340
12/4/2023 11:24:17	1768	7808	8292
12/4/2023 11:20:06	1802	8001	8316
12/4/2023 11:16:06	1832	8106	8250
12/4/2023 10:23:39	1770	7816	7735
12/4/2023 10:16:55	1601	7275	7827
12/4/2023 10:09:27	1944	8113	7456
12/1/2023 09:45:19	2113	9054	8466
11/30/2023 11:48:17	2317	9995	8851
11/30/2023 11:13:01	1727	8309	9089
11/30/2023 11:05:44	1721	8023	8748
11/30/2023 10:33:46	1172	5927	8124
11/29/2023 10:04:26	2359	11870	8365
11/29/2023 09:51:22	1483	5693	3444
11/28/2023 12:50:37	3146	12531	8324
11/28/2023 12:18:55	2789	8914	4789
11/28/2023 12:15:04	3346	10726	5995
11/28/2023 11:49:24	2609	8496	4878
11/28/2023 10:22:53	1529	5718	4738
11/28/2023 10:19:03	1663	6180	5204
11/28/2023 10:15:20	1784	6623	5657
11/28/2023 09:59:37	1436	6174	5639
11/27/2023 10:28:48	2148	9665	8835
11/27/2023 10:07:16	1451	7618	8440
11/27/2023 10:01:25	1454	7648	8543
11/27/2023 09:52:06	1636	8794	9323
11/22/2023 09:50:47	2317	9749	8520
11/21/2023 09:52:05	2348	10189	9398
11/20/2023 09:38:08	2536	10392	9162
11/17/2023 10:07:38	2699	10664	9285

# Performance Report

Created Date	Channel 1 Count	Channel 2 Count	Channel 3 Count
11/16/2023 09:42:56	2615	11519	10404
11/15/2023 13:01:45	2120	9780	10146
11/15/2023 12:33:52	1814	8334	9391
11/15/2023 12:27:35	1837	8353	9462
11/15/2023 12:17:35	1829	8310	9392
11/15/2023 12:09:42	1631	7760	9062
11/15/2023 10:39:09	1634	7521	8758
11/14/2023 10:25:03	4165	15167	8009
11/13/2023 09:42:07	3445	15971	9795
11/10/2023 09:15:37	3300	14607	7635
11/9/2023 09:55:52	2651	15369	8099
11/8/2023 09:55:56	2862	15545	7990
11/7/2023 10:07:52	2359	13776	7205
11/7/2023 10:01:12	1759	11245	6289
11/7/2023 09:55:11	1931	12236	6442
11/6/2023 10:21:52	3645	16323	7638
11/3/2023 09:44:39	2391	13805	7745
11/2/2023 09:56:11	2999	15000	8628
11/1/2023 09:41:33	3299	14766	7935

## Background

Created Date	Channel 1 Count	Channel 2 Count	Channel 3 Count
8/22/2024 08:43:54	1.050	0.850	3.250
8/21/2024 08:04:13	1.200	1.050	4.450
8/20/2024 09:20:37	1.250	1.250	5.250
8/19/2024 10:25:21	1.000	0.500	4.550
8/19/2024 09:17:03	0.900	0.650	3.700
8/16/2024 08:56:38	1.050	1.050	3.450
8/15/2024 08:28:01	1.000	0.600	3.250
8/14/2024 08:24:41	1.150	0.450	4.000
8/13/2024 08:51:41	1.200	0.450	2.850
8/12/2024 09:10:43	0.500	0.500	2.350
8/12/2024 08:57:52	0.950	0.600	2.950
8/9/2024 11:39:50	1.350	0.700	4.500
8/9/2024 10:08:20	0.850	0.600	3.100
8/8/2024 08:40:39	1.200	0.500	5.750

# Performance Report

Created Date	Channel 1 Count	Channel 2 Count	Channel 3 Count
8/7/2024 09:19:16	1.350	0.900	4.300
8/6/2024 11:12:44	1.450	0.800	3.500
8/6/2024 10:53:38	1.600	0.500	3.350
8/5/2024 10:40:17	0.600	0.750	3.150
8/5/2024 10:09:19	1.300	0.750	4.700
8/5/2024 09:55:23	0.800	0.700	5.750
8/2/2024 09:40:16	1.050	0.650	4.450
8/2/2024 08:37:48	1.300	0.700	4.600
8/1/2024 10:38:00	1.050	0.550	5.450
8/1/2024 09:06:45	0.900	0.850	3.750
7/31/2024 08:13:58	1.200	0.650	3.800
7/30/2024 08:50:51	1.100	0.650	2.400
7/29/2024 16:06:05	1.250	0.950	4.850
7/29/2024 12:07:28	1.500	0.750	4.100
7/29/2024 11:14:31	1.200	1.000	3.500
7/29/2024 10:15:21	1.250	0.800	3.900
7/26/2024 08:53:52	0.750	1.200	3.950
7/25/2024 09:09:23	0.750	0.300	2.900
7/24/2024 15:10:09	0.750	0.700	3.650
7/24/2024 08:46:25	1.100	0.650	4.200
7/23/2024 09:32:54	1.250	0.750	3.550
7/22/2024 10:18:30	1.050	0.600	4.200
7/19/2024 08:55:06	1.300	0.650	4.050
7/18/2024 09:06:31	0.700	0.600	2.950
7/17/2024 13:03:52	1.150	0.800	3.850
7/17/2024 08:53:29	1.700	0.550	5.400
7/16/2024 08:54:03	0.900	0.850	4.100
7/15/2024 10:39:29	1.050	0.750	4.650
7/15/2024 10:30:38	1.250	0.750	4.300
7/15/2024 10:13:57	1.250	0.650	4.400
7/15/2024 09:02:48	1.550	0.450	4.300
7/12/2024 08:34:22	1.200	0.850	4.100
7/11/2024 09:57:22	1.550	1.200	5.900
7/10/2024 08:53:17	1.050	0.850	2.900
7/9/2024 11:54:06	1.200	0.750	3.700
7/9/2024 11:32:31	1.000	0.450	3.700
7/9/2024 11:26:38	1.550	0.550	4.350
7/9/2024 10:39:16	1.200	1.050	4.700
7/9/2024 09:17:46	1.550	0.800	4.650
7/9/2024 08:57:06	1.250	0.700	3.100
7/8/2024 09:21:55	1.700	0.950	5.050

# Performance Report

Created Date	Channel 1 Count	Channel 2 Count	Channel 3 Count
7/8/2024 09:16:31	1.050	0.750	4.500
7/5/2024 09:03:10	1.200	0.500	3.600
7/3/2024 13:05:52	1.150	1.000	4.000
7/3/2024 11:25:40	1.500	0.850	4.500
7/3/2024 09:13:37	1.000	0.550	4.300
7/3/2024 08:44:49	0.950	0.650	3.500
7/2/2024 10:26:17	0.850	0.650	3.600
7/2/2024 08:58:12	0.900	0.850	3.350
7/1/2024 14:16:19	1.450	0.500	5.050
7/1/2024 10:01:10	1.450	0.850	3.900
6/28/2024 08:25:22	1.100	1.350	4.300
6/27/2024 08:34:14	1.350	0.900	6.000
6/27/2024 08:11:22	0.850	0.700	4.400
6/26/2024 07:54:24	0.650	0.400	2.750
6/25/2024 09:02:17	0.900	0.650	4.200
6/24/2024 09:30:27	1.250	1.100	4.150
6/21/2024 08:55:34	1.150	0.700	6.200
6/21/2024 08:22:44	1.050	0.900	3.250
6/20/2024 09:00:43	1.300	0.700	2.750
6/19/2024 07:51:31	1.500	1.400	4.900
6/18/2024 07:52:20	1.850	1.000	4.300
6/17/2024 08:58:45	1.000	0.450	2.900
6/14/2024 08:44:27	1.200	0.450	4.150
6/13/2024 08:42:30	1.100	0.850	4.800
6/12/2024 09:03:47	1.200	0.400	3.350
6/11/2024 08:44:40	1.650	0.700	3.950
6/10/2024 09:31:51	1.550	0.750	4.350
6/10/2024 09:17:04	1.250	0.450	3.800
6/10/2024 09:10:07	1.400	0.600	3.500
6/7/2024 09:02:38	1.400	0.350	3.300
6/6/2024 15:20:20	1.150	0.400	2.650
6/6/2024 05:03:01	1.500	1.100	4.650
6/6/2024 04:59:28	1.300	0.900	3.750
6/5/2024 08:30:26	1.800	1.350	4.050
6/4/2024 08:52:51	0.650	0.500	3.850
6/4/2024 08:39:35	0.850	0.500	3.450
6/4/2024 08:33:37	0.950	0.800	4.400
6/3/2024 10:10:17	1.000	0.500	3.100
6/3/2024 09:51:43	2.050	0.850	4.950
6/3/2024 09:44:54	1.500	0.500	5.150
6/3/2024 09:30:49	1.100	0.350	3.050

# Performance Report

Created Date	Channel 1 Count	Channel 2 Count	Channel 3 Count
5/31/2024 08:42:32	1.350	0.900	5.150
5/30/2024 09:08:46	1.000	0.550	4.300
5/29/2024 09:04:40	1.150	0.750	4.750
5/29/2024 08:48:40	0.700	0.550	2.700
5/29/2024 08:44:08	1.150	0.400	3.600
5/28/2024 09:34:37	1.000	0.450	3.150
5/24/2024 07:20:01	1.250	1.100	4.200
5/23/2024 10:25:13	0.900	0.900	5.100
5/22/2024 09:45:06	1.050	0.750	5.250
5/21/2024 09:06:58	1.400	1.100	5.050
5/21/2024 08:01:17	1.150	0.950	4.950
5/20/2024 17:22:27	0.900	0.750	3.800
5/20/2024 17:18:56	1.050	1.050	3.750
5/20/2024 09:20:56	0.450	0.650	3.250
5/17/2024 09:12:39	1.050	0.700	4.800
5/16/2024 08:56:23	0.900	0.750	3.850
5/15/2024 09:38:13	0.750	0.600	4.050
5/15/2024 09:21:01	0.900	0.250	3.400
5/14/2024 09:41:16	0.900	0.350	3.050
5/14/2024 09:04:40	0.600	0.350	2.100
5/13/2024 09:04:44	0.950	0.900	3.450
5/10/2024 08:57:17	0.900	0.550	5.000
5/9/2024 09:06:46	1.100	0.900	5.050
5/9/2024 08:50:21	1.150	0.700	4.800
5/9/2024 08:44:20	1.000	1.000	5.300
5/8/2024 09:39:10	1.300	0.600	3.200
5/7/2024 17:05:39	1.150	0.700	4.850
5/7/2024 16:48:43	1.050	0.800	3.600
5/7/2024 09:19:24	1.000	0.800	3.750
5/6/2024 09:15:59	0.750	0.750	4.350
5/6/2024 09:03:10	0.850	0.700	4.500
5/3/2024 09:11:06	1.150	0.500	3.350
5/2/2024 09:48:24	0.800	0.800	2.450
5/1/2024 09:22:54	1.300	0.700	5.450
4/30/2024 10:43:56	1.000	1.250	5.000
4/30/2024 08:17:01	1.150	0.950	4.100
4/29/2024 09:10:57	1.550	0.750	5.050
4/29/2024 08:57:45	1.550	0.850	5.850
4/26/2024 08:09:31	1.300	0.750	5.850
4/25/2024 09:37:51	1.250	1.000	4.100
4/24/2024 09:17:24	1.600	1.450	5.400

# Performance Report

Created Date	Channel 1 Count	Channel 2 Count	Channel 3 Count
4/23/2024 22:46:11	1.250	1.150	5.750
4/23/2024 09:01:59	0.700	0.550	4.900
4/22/2024 10:16:34	1.000	0.650	4.100
4/19/2024 10:59:00	1.050	1.050	5.250
4/19/2024 10:07:48	2.150	1.700	8.800
4/19/2024 09:10:32	0.600	0.600	1.050
4/18/2024 09:24:23	0.850	0.800	2.900
4/17/2024 17:03:53	1.350	0.800	4.300
4/17/2024 16:22:27	1.150	1.000	4.600
4/17/2024 09:09:54	0.800	0.750	2.300
4/16/2024 09:06:44	1.150	1.300	4.500
4/15/2024 09:14:49	1.200	1.150	5.300
4/12/2024 08:28:21	1.050	0.850	4.250
4/11/2024 08:35:01	0.900	0.700	4.650
4/10/2024 09:48:58	0.550	1.000	3.500
4/9/2024 08:56:49	0.700	0.700	3.500
4/8/2024 09:25:48	0.950	0.800	4.150
4/5/2024 08:28:47	1.450	0.700	5.100
4/4/2024 11:00:01	1.700	0.650	4.750
4/4/2024 10:45:12	1.100	0.750	3.200
4/3/2024 08:29:42	0.950	0.900	5.550
4/2/2024 09:43:44	0.800	0.750	2.500
4/1/2024 09:27:15	1.200	1.300	3.650
3/29/2024 08:53:28	1.250	0.900	3.350
3/28/2024 09:08:20	0.800	0.850	3.950
3/27/2024 16:48:32	1.250	1.100	4.700
3/27/2024 10:07:18	1.650	0.750	3.600
3/27/2024 08:49:30	1.700	0.600	4.200
3/26/2024 10:28:06	1.450	0.550	4.000
3/25/2024 10:10:30	1.150	0.650	4.800
3/22/2024 09:00:45	0.750	0.750	4.000
3/21/2024 08:44:31	0.900	0.450	4.000
3/20/2024 09:03:42	1.350	0.650	2.950
3/19/2024 13:23:15	1.250	0.750	3.650
3/19/2024 09:31:32	0.950	0.500	3.450
3/18/2024 10:47:35	1.150	0.550	3.550
3/15/2024 09:19:25	1.700	1.000	5.050
3/14/2024 09:13:05	1.100	0.750	4.050
3/13/2024 09:22:30	1.700	0.850	3.850
3/12/2024 09:10:39	0.850	0.700	3.750
3/11/2024 11:07:32	1.650	0.850	4.300

# Performance Report

Created Date	Channel 1 Count	Channel 2 Count	Channel 3 Count
3/11/2024 09:31:05	1.450	0.850	4.850
3/11/2024 09:27:33	1.950	0.500	4.700
3/8/2024 08:29:13	1.800	0.650	4.350
3/7/2024 17:46:09	1.250	1.050	4.550
3/7/2024 13:19:13	0.950	0.650	4.750
3/7/2024 09:28:32	2.150	1.000	4.900
3/7/2024 09:11:32	1.200	0.600	3.500
3/7/2024 09:01:08	1.250	0.700	4.350
3/6/2024 10:19:40	1.600	0.500	4.550
3/5/2024 10:15:16	45.151	868.764	0.250
3/5/2024 10:09:01	0.450	0.100	0.150
3/4/2024 11:41:00	1.650	1.000	4.400
3/4/2024 11:28:21	1.900	1.700	7.550
3/1/2024 08:43:28	1.850	1.100	5.400
2/29/2024 10:38:23	1.350	0.800	4.500
2/29/2024 10:00:25	0.850	0.450	1.150
2/29/2024 09:54:15	0.900	0.350	1.300
2/28/2024 09:32:01	1.250	0.700	3.350
2/27/2024 09:16:47	1.000	0.700	3.200
2/26/2024 10:30:35	1.750	0.700	5.350
2/26/2024 10:00:21	2.150	0.700	5.850
2/23/2024 09:07:38	1.300	0.550	3.600
2/22/2024 08:58:48	1.150	0.850	4.300
2/21/2024 09:51:13	1.000	0.650	3.750
2/20/2024 09:59:52	1.100	1.250	3.900
2/19/2024 11:30:32	1.150	0.400	3.700
2/19/2024 11:27:00	1.800	0.500	3.150
2/19/2024 10:16:07	1.100	0.750	4.100
2/16/2024 10:28:26	1.650	0.950	5.150
2/15/2024 09:20:58	1.850	0.850	5.350
2/14/2024 09:20:12	2.050	1.150	5.600
2/13/2024 10:44:41	1.700	1.150	5.800
2/13/2024 10:29:18	1.550	0.800	2.700
2/12/2024 11:24:46	1.300	0.400	3.900
2/12/2024 11:09:08	0.150	0.150	0.350
2/12/2024 10:33:45	0.450	2.300	0.100
2/12/2024 10:19:52	1.550	0.400	1.250
2/12/2024 10:03:02	0.150	0.050	0.200
2/9/2024 09:43:26	1.600	0.400	3.200
2/8/2024 09:41:08	1.600	0.800	3.200
2/7/2024 09:08:34	1.200	0.550	3.550

# Performance Report

Created Date	Channel 1 Count	Channel 2 Count	Channel 3 Count
2/6/2024 10:08:14	1.650	1.550	4.100
2/5/2024 16:27:35	1.100	0.550	3.400
2/2/2024 09:52:22	1.250	0.600	5.350
2/1/2024 09:29:20	1.000	0.550	5.000
1/31/2024 11:01:25	1.300	0.650	4.650
1/31/2024 10:56:52	1.200	0.800	5.700
1/30/2024 09:04:33	0.900	0.650	5.400
1/29/2024 09:09:33	1.100	0.650	4.000
1/26/2024 10:08:59	1.450	1.050	5.000
1/25/2024 09:54:25	1.350	0.850	3.950
1/24/2024 08:52:40	1.300	0.900	3.900
1/23/2024 11:08:41	1.000	0.900	3.450
1/22/2024 09:17:23	1.300	0.800	5.500
1/22/2024 09:06:26	1.750	0.650	4.050
1/19/2024 09:01:45	1.750	1.000	4.000
1/18/2024 10:29:20	1.250	0.650	3.600
1/17/2024 08:52:45	1.550	0.650	4.250
1/16/2024 14:09:54	1.450	0.650	4.150
1/16/2024 13:58:35	1.450	0.800	3.350
1/16/2024 13:45:11	1.050	0.600	3.600
1/15/2024 13:03:28	0.750	0.200	0.700
1/15/2024 10:46:25	0.800	0.100	0.400
1/15/2024 10:34:05	0.800	0.100	0.750
1/15/2024 10:25:28	1.350	0.150	0.800
1/15/2024 09:48:32	0.950	0.250	0.450
1/15/2024 09:32:45	1.050	0.350	0.600
1/11/2024 14:10:39	0.900	0.150	0.200
1/11/2024 14:00:32	0.700	0.050	0.250
1/11/2024 13:07:14	0.600	0.150	0.250
1/11/2024 12:18:32	0.550	0.050	0.400
1/11/2024 10:36:51	0.450	0.100	0.250
1/11/2024 10:28:26	0.550	0.050	0.200
1/11/2024 09:11:58	0.300	0.150	0.500
1/11/2024 09:02:27	0.700	0.200	0.500
1/11/2024 08:54:00	0.450	0.100	0.600
1/10/2024 09:10:40	1.400	1.000	4.400
1/9/2024 12:58:05	2.000	0.800	4.900
1/9/2024 12:49:35	1.200	0.450	1.750
1/9/2024 12:37:33	0.000	0.050	0.200
1/9/2024 12:22:55	0.050	0.050	0.000
1/9/2024 12:00:03	0.000	0.050	0.100



# Performance Report

Created Date	Channel 1 Count	Channel 2 Count	Channel 3 Count
1/9/2024 11:54:42	0.000	0.000	0.050
1/9/2024 11:45:17	0.100	0.000	0.050
1/9/2024 11:40:53	0.050	0.000	0.050
1/9/2024 11:25:08	0.450	0.050	0.200
1/9/2024 11:20:04	0.250	0.100	0.200
1/8/2024 13:49:37	0.950	0.550	2.650
1/8/2024 12:34:48	0.350	0.150	0.600
1/8/2024 12:30:18	0.250	0.300	0.450
1/5/2024 09:35:49	1.250	0.450	3.900
1/4/2024 09:13:21	1.100	0.750	4.350
1/4/2024 09:00:57	1.400	0.450	2.950
1/3/2024 08:46:17	1.250	0.600	3.200
1/2/2024 11:16:48	1.350	0.300	2.800
1/2/2024 10:38:17	1.250	0.800	2.900
12/29/2023 10:12:49	0.850	0.500	3.100
12/28/2023 08:59:35	1.000	0.800	3.550
12/27/2023 12:20:02	1.000	0.600	3.150
12/27/2023 11:34:32	0.800	0.650	3.450
12/27/2023 10:51:04	1.000	0.800	3.000
12/27/2023 10:41:08	1.200	0.400	3.400
12/27/2023 10:33:50	1.500	0.650	3.500
12/27/2023 10:28:28	0.950	0.600	3.300
12/22/2023 07:49:52	0.850	0.450	2.400
12/21/2023 08:44:43	1.050	0.450	2.150
12/20/2023 09:26:41	0.600	0.350	3.500
12/19/2023 09:55:37	1.150	0.550	2.600
12/18/2023 10:16:18	0.700	0.400	2.100
12/18/2023 10:06:38	0.900	0.150	2.400
12/18/2023 10:00:26	1.150	0.200	2.950
12/15/2023 09:45:55	1.000	0.800	3.050
12/14/2023 10:23:15	0.350	0.850	2.950
12/13/2023 10:17:40	0.650	0.250	2.800
12/12/2023 09:56:00	0.950	0.600	2.700
12/11/2023 10:31:48	1.350	0.200	2.550
12/8/2023 10:10:39	0.950	0.600	3.250
12/7/2023 09:51:50	0.850	0.300	2.550
12/6/2023 10:12:37	1.050	0.750	3.550
12/5/2023 10:02:14	0.600	0.450	1.750
12/4/2023 12:08:53	0.600	0.300	2.500
12/4/2023 11:24:17	0.350	0.200	1.300
12/4/2023 11:20:06	0.500	0.250	0.850

# Performance Report

Created Date	Channel 1 Count	Channel 2 Count	Channel 3 Count
12/4/2023 11:16:06	0.150	0.500	1.150
12/4/2023 10:23:39	0.300	0.150	1.400
12/4/2023 10:16:55	0.300	0.350	0.950
12/4/2023 10:09:27	0.400	0.300	1.100
12/1/2023 09:45:19	0.550	0.500	1.500
11/30/2023 11:48:17	0.450	0.350	1.950
11/30/2023 11:13:01	0.450	0.100	1.200
11/30/2023 11:05:44	0.500	0.050	1.150
11/30/2023 10:33:46	0.150	0.200	0.700
11/29/2023 10:04:26	0.850	0.450	2.200
11/29/2023 09:51:22	0.750	0.300	2.400
11/28/2023 12:50:37	1.000	0.550	2.650
11/28/2023 12:18:55	0.800	0.700	3.500
11/28/2023 12:15:04	0.500	0.450	3.050
11/28/2023 11:49:24	0.900	0.450	3.200
11/28/2023 10:22:53	0.650	0.350	1.800
11/28/2023 10:19:03	0.550	0.400	1.950
11/28/2023 10:15:20	0.200	0.200	1.650
11/28/2023 09:59:37	0.250	0.200	1.500
11/27/2023 10:28:48	0.300	0.200	1.850
11/27/2023 10:07:16	0.300	0.100	1.500
11/27/2023 10:01:25	0.500	0.150	1.150
11/27/2023 09:52:06	0.500	0.150	1.250
11/22/2023 09:50:47	0.500	0.300	1.700
11/21/2023 09:52:05	0.650	0.250	1.200
11/20/2023 09:38:08	0.200	0.350	1.450
11/17/2023 10:07:38	0.250	0.100	2.450
11/16/2023 09:42:56	0.350	0.350	2.750
11/15/2023 13:01:45	0.550	0.100	1.700
11/15/2023 12:33:52	0.350	0.250	0.900
11/15/2023 12:27:35	0.150	0.250	1.300
11/15/2023 12:17:35	0.400	0.200	0.900
11/15/2023 12:09:42	0.450	0.150	1.350
11/15/2023 10:39:09	0.200	0.100	1.150
11/14/2023 10:25:03	1.600	0.750	4.550
11/13/2023 09:42:07	1.000	0.350	3.300
11/10/2023 09:15:37	0.950	0.650	3.000
11/9/2023 09:55:52	0.850	0.450	2.800
11/8/2023 09:55:56	1.100	0.450	3.550
11/7/2023 10:07:52	1.150	0.800	3.850
11/7/2023 10:01:12	0.750	0.350	2.550

# Performance Report

Created Date	Channel 1 Count	Channel 2 Count	Channel 3 Count
11/7/2023 09:55:11	1.000	0.350	3.150
11/6/2023 10:21:52	1.450	0.800	3.700
11/3/2023 09:44:39	1.250	0.600	4.000
11/2/2023 09:56:11	1.350	0.500	3.200
11/1/2023 09:41:33	1.550	0.700	4.000

## Tune Parameters

Created Date	Extract 1	Extract 2	Omega Bias
8/22/2024 08:43:54	0.0 V	-160.0 V	-70 V
8/21/2024 08:04:13	0.0 V	-200.0 V	-80 V
8/20/2024 09:20:37	0.0 V	-190.0 V	-100 V
8/19/2024 10:25:21	0.0 V	-185.0 V	-80 V
8/19/2024 09:17:03	0.0 V	-165.0 V	-80 V
8/16/2024 08:56:38	0.0 V	-180.0 V	-80 V
8/15/2024 08:28:01	0.0 V	-165.0 V	-80 V
8/14/2024 08:24:41	0.0 V	-175.0 V	-80 V
8/13/2024 08:51:41	0.0 V	-185.0 V	-80 V
8/12/2024 09:10:43	0.0 V	-160.0 V	-80 V
8/12/2024 08:57:52	0.0 V	-180.0 V	-80 V
8/9/2024 11:39:50	0.0 V	-195.0 V	-90 V
8/9/2024 10:08:20	0.0 V	-195.0 V	-90 V
8/8/2024 08:40:39	0.0 V	-195.0 V	-90 V
8/7/2024 09:19:16	0.0 V	-195.0 V	-90 V
8/6/2024 11:12:44	0.0 V	-200.0 V	-80 V
8/6/2024 10:53:38	0.0 V	-200.0 V	-80 V
8/5/2024 10:40:17	0.0 V	-200.0 V	-80 V
8/5/2024 10:09:19	0.0 V	-200.0 V	-90 V
8/5/2024 09:55:23	0.0 V	-195.0 V	-90 V
8/2/2024 09:40:16	0.0 V	-190.0 V	-90 V
8/2/2024 08:37:48	0.0 V	-190.0 V	-90 V
8/1/2024 10:38:00	0.0 V	-180.0 V	-90 V
8/1/2024 09:06:45	0.0 V	-175.0 V	-90 V
7/31/2024 08:13:58	0.0 V	-185.0 V	-90 V
7/30/2024 08:50:51	0.0 V	-180.0 V	-90 V
7/29/2024 16:06:05	0.0 V	-190.0 V	-90 V
7/29/2024 12:07:28	0.0 V	-195.0 V	-90 V

# Performance Report

Created Date	Extract 1	Extract 2	Omega Bias
7/29/2024 11:14:31	0.0 V	-195.0 V	-100 V
7/29/2024 10:15:21	0.0 V	-180.0 V	-90 V
7/26/2024 08:53:52	0.0 V	-190.0 V	-90 V
7/25/2024 09:09:23	0.0 V	-165.0 V	-90 V
7/24/2024 15:10:09	0.0 V	-185.0 V	-90 V
7/24/2024 08:46:25	0.0 V	-180.0 V	-90 V
7/23/2024 09:32:54	0.0 V	-180.0 V	-90 V
7/22/2024 10:18:30	0.0 V	-185.0 V	-90 V
7/19/2024 08:55:06	0.0 V	-190.0 V	-90 V
7/18/2024 09:06:31	0.0 V	-175.0 V	-90 V
7/17/2024 13:03:52	0.0 V	-185.0 V	-90 V
7/17/2024 08:53:29	0.0 V	-185.0 V	-90 V
7/16/2024 08:54:03	0.0 V	-190.0 V	-90 V
7/15/2024 10:39:29	0.0 V	-195.0 V	-90 V
7/15/2024 10:30:38	0.0 V	-180.0 V	-90 V
7/15/2024 10:13:57	0.0 V	-180.0 V	-90 V
7/15/2024 09:02:48	0.0 V	-185.0 V	-90 V
7/12/2024 08:34:22	0.0 V	-175.0 V	-90 V
7/11/2024 09:57:22	0.0 V	-180.0 V	-80 V
7/10/2024 08:53:17	0.0 V	-150.0 V	-70 V
7/9/2024 11:54:06	0.0 V	-155.0 V	-70 V
7/9/2024 11:32:31	0.0 V	-155.0 V	-70 V
7/9/2024 11:26:38	0.0 V	-155.0 V	-70 V
7/9/2024 10:39:16	0.0 V	-155.0 V	-70 V
7/9/2024 09:17:46	0.0 V	-155.0 V	-70 V
7/9/2024 08:57:06	0.0 V	-140.0 V	-70 V
7/8/2024 09:21:55	0.0 V	-165.0 V	-80 V
7/8/2024 09:16:31	0.0 V	-160.0 V	-80 V
7/5/2024 09:03:10	0.0 V	-200.0 V	-90 V
7/3/2024 13:05:52	0.0 V	-195.0 V	-100 V
7/3/2024 11:25:40	0.0 V	-195.0 V	-90 V
7/3/2024 09:13:37	0.0 V	-195.0 V	-90 V
7/3/2024 08:44:49	0.0 V	-170.0 V	-90 V
7/2/2024 10:26:17	0.0 V	-170.0 V	-90 V
7/2/2024 08:58:12	0.0 V	-170.0 V	-90 V
7/1/2024 14:16:19	0.0 V	-190.0 V	-90 V
7/1/2024 10:01:10	0.0 V	-195.0 V	-90 V
6/28/2024 08:25:22	0.0 V	-195.0 V	-90 V
6/27/2024 08:34:14	0.0 V	-195.0 V	-90 V
6/27/2024 08:11:22	0.0 V	-175.0 V	-90 V
6/26/2024 07:54:24	0.0 V	-175.0 V	-90 V

# Performance Report

Created Date	Extract 1	Extract 2	Omega Bias
6/25/2024 09:02:17	0.0 V	-190.0 V	-90 V
6/24/2024 09:30:27	0.0 V	-190.0 V	-90 V
6/21/2024 08:55:34	0.0 V	-200.0 V	-90 V
6/21/2024 08:22:44	0.0 V	-170.0 V	-90 V
6/20/2024 09:00:43	0.0 V	-170.0 V	-90 V
6/19/2024 07:51:31	0.0 V	-175.0 V	-90 V
6/18/2024 07:52:20	0.0 V	-175.0 V	-90 V
6/17/2024 08:58:45	0.0 V	-175.0 V	-90 V
6/14/2024 08:44:27	0.0 V	-195.0 V	-90 V
6/13/2024 08:42:30	0.0 V	-200.0 V	-100 V
6/12/2024 09:03:47	0.0 V	-200.0 V	-100 V
6/11/2024 08:44:40	0.0 V	-185.0 V	-100 V
6/10/2024 09:31:51	0.0 V	-170.0 V	-90 V
6/10/2024 09:17:04	0.0 V	-165.0 V	-90 V
6/10/2024 09:10:07	0.0 V	-165.0 V	-90 V
6/7/2024 09:02:38	0.0 V	-165.0 V	-90 V
6/6/2024 15:20:20	0.0 V	-165.0 V	-90 V
6/6/2024 05:03:01	0.0 V	-190.0 V	-90 V
6/6/2024 04:59:28	0.0 V	-190.0 V	-90 V
6/5/2024 08:30:26	0.0 V	-190.0 V	-90 V
6/4/2024 08:52:51	0.0 V	-200.0 V	-90 V
6/4/2024 08:39:35	0.0 V	-200.0 V	-100 V
6/4/2024 08:33:37	0.0 V	-200.0 V	-100 V
6/3/2024 10:10:17	0.0 V	-200.0 V	-100 V
6/3/2024 09:51:43	0.0 V	-175.0 V	-100 V
6/3/2024 09:44:54	0.0 V	-175.0 V	-100 V
6/3/2024 09:30:49	0.0 V	-175.0 V	-100 V
5/31/2024 08:42:32	0.0 V	-200.0 V	-100 V
5/30/2024 09:08:46	0.0 V	-200.0 V	-100 V
5/29/2024 09:04:40	0.0 V	-200.0 V	-100 V
5/29/2024 08:48:40	0.0 V	-170.0 V	-80 V
5/29/2024 08:44:08	0.0 V	-170.0 V	-80 V
5/28/2024 09:34:37	0.0 V	-170.0 V	-80 V
5/24/2024 07:20:01	0.0 V	-200.0 V	-90 V
5/23/2024 10:25:13	0.0 V	-200.0 V	-90 V
5/22/2024 09:45:06	0.0 V	-200.0 V	-90 V
5/21/2024 09:06:58	0.0 V	-200.0 V	-90 V
5/21/2024 08:01:17	0.0 V	-200.0 V	-100 V
5/20/2024 17:22:27	0.0 V	-200.0 V	-100 V
5/20/2024 17:18:56	0.0 V	-200.0 V	-100 V
5/20/2024 09:20:56	0.0 V	-200.0 V	-100 V

# Performance Report

Created Date	Extract 1	Extract 2	Omega Bias
5/17/2024 09:12:39	0.0 V	-200.0 V	-100 V
5/16/2024 08:56:23	0.0 V	-200.0 V	-100 V
5/15/2024 09:38:13	0.0 V	-200.0 V	-100 V
5/15/2024 09:21:01	0.0 V	-190.0 V	-90 V
5/14/2024 09:41:16	0.0 V	-190.0 V	-90 V
5/14/2024 09:04:40	0.0 V	-190.0 V	-90 V
5/13/2024 09:04:44	0.0 V	-190.0 V	-90 V
5/10/2024 08:57:17	0.0 V	-190.0 V	-90 V
5/9/2024 09:06:46	0.0 V	-190.0 V	-90 V
5/9/2024 08:50:21	0.0 V	-190.0 V	-90 V
5/9/2024 08:44:20	0.0 V	-190.0 V	-90 V
5/8/2024 09:39:10	0.0 V	-190.0 V	-90 V
5/7/2024 17:05:39	0.0 V	-195.0 V	-100 V
5/7/2024 16:48:43	0.0 V	-195.0 V	-100 V
5/7/2024 09:19:24	0.0 V	-195.0 V	-100 V
5/6/2024 09:15:59	0.0 V	-195.0 V	-100 V
5/6/2024 09:03:10	0.0 V	-195.0 V	-100 V
5/3/2024 09:11:06	0.0 V	-195.0 V	-100 V
5/2/2024 09:48:24	0.0 V	-190.0 V	-100 V
5/1/2024 09:22:54	0.0 V	-185.0 V	-100 V
4/30/2024 10:43:56	0.0 V	-185.0 V	-100 V
4/30/2024 08:17:01	0.0 V	-185.0 V	-100 V
4/29/2024 09:10:57	0.0 V	-185.0 V	-100 V
4/29/2024 08:57:45	0.0 V	-185.0 V	-100 V
4/26/2024 08:09:31	0.0 V	-185.0 V	-100 V
4/25/2024 09:37:51	0.0 V	-185.0 V	-100 V
4/24/2024 09:17:24	0.0 V	-195.0 V	-100 V
4/23/2024 22:46:11	0.0 V	-195.0 V	-100 V
4/23/2024 09:01:59	0.0 V	-195.0 V	-100 V
4/22/2024 10:16:34	0.0 V	-195.0 V	-100 V
4/19/2024 10:59:00	0.0 V	-200.0 V	-100 V
4/19/2024 10:07:48	0.0 V	-200.0 V	-110 V
4/19/2024 09:10:32	0.0 V	-180.0 V	-100 V
4/18/2024 09:24:23	0.0 V	-180.0 V	-100 V
4/17/2024 17:03:53	0.0 V	-180.0 V	-100 V
4/17/2024 16:22:27	0.0 V	-180.0 V	-100 V
4/17/2024 09:09:54	0.0 V	-180.0 V	-100 V
4/16/2024 09:06:44	0.0 V	-200.0 V	-100 V
4/15/2024 09:14:49	0.0 V	-200.0 V	-100 V
4/12/2024 08:28:21	0.0 V	-200.0 V	-100 V
4/11/2024 08:35:01	0.0 V	-200.0 V	-100 V

# Performance Report

Created Date	Extract 1	Extract 2	Omega Bias
4/10/2024 09:48:58	0.0 V	-195.0 V	-100 V
4/9/2024 08:56:49	0.0 V	-195.0 V	-100 V
4/8/2024 09:25:48	0.0 V	-195.0 V	-100 V
4/5/2024 08:28:47	0.0 V	-195.0 V	-100 V
4/4/2024 11:00:01	0.0 V	-190.0 V	-90 V
4/4/2024 10:45:12	0.0 V	-200.0 V	-90 V
4/3/2024 08:29:42	0.0 V	-200.0 V	-90 V
4/2/2024 09:43:44	0.0 V	-195.0 V	-90 V
4/1/2024 09:27:15	0.0 V	-195.0 V	-90 V
3/29/2024 08:53:28	0.0 V	-195.0 V	-90 V
3/28/2024 09:08:20	0.0 V	-195.0 V	-90 V
3/27/2024 16:48:32	0.0 V	-195.0 V	-90 V
3/27/2024 10:07:18	0.0 V	-195.0 V	-90 V
3/27/2024 08:49:30	0.0 V	-195.0 V	-90 V
3/26/2024 10:28:06	0.0 V	-195.0 V	-90 V
3/25/2024 10:10:30	0.0 V	-200.0 V	-100 V
3/22/2024 09:00:45	0.0 V	-190.0 V	-100 V
3/21/2024 08:44:31	0.0 V	-190.0 V	-100 V
3/20/2024 09:03:42	0.0 V	-190.0 V	-100 V
3/19/2024 13:23:15	0.0 V	-190.0 V	-100 V
3/19/2024 09:31:32	0.0 V	-190.0 V	-100 V
3/18/2024 10:47:35	0.0 V	-190.0 V	-100 V
3/15/2024 09:19:25	0.0 V	-200.0 V	-90 V
3/14/2024 09:13:05	0.0 V	-200.0 V	-90 V
3/13/2024 09:22:30	0.0 V	-200.0 V	-90 V
3/12/2024 09:10:39	0.0 V	-200.0 V	-90 V
3/11/2024 11:07:32	0.0 V	-200.0 V	-90 V
3/11/2024 09:31:05	0.0 V	-195.0 V	-100 V
3/11/2024 09:27:33	0.0 V	-195.0 V	-100 V
3/8/2024 08:29:13	0.0 V	-200.0 V	-100 V
3/7/2024 17:46:09	0.0 V	-200.0 V	-100 V
3/7/2024 13:19:13	0.0 V	-200.0 V	-100 V
3/7/2024 09:28:32	0.0 V	-200.0 V	-100 V
3/7/2024 09:11:32	0.0 V	-200.0 V	-100 V
3/7/2024 09:01:08	0.0 V	-200.0 V	-100 V
3/6/2024 10:19:40	0.0 V	-200.0 V	-100 V
3/5/2024 10:15:16	0.0 V	-200.0 V	-100 V
3/5/2024 10:09:01	0.0 V	-200.0 V	-100 V
3/4/2024 11:41:00	0.0 V	-200.0 V	-100 V
3/4/2024 11:28:21	0.0 V	-200.0 V	-100 V
3/1/2024 08:43:28	0.0 V	-200.0 V	-120 V

# Performance Report

Created Date	Extract 1	Extract 2	Omega Bias
2/29/2024 10:38:23	0.0 V	-200.0 V	-120 V
2/29/2024 10:00:25	0.0 V	-160.0 V	-110 V
2/29/2024 09:54:15	0.0 V	-160.0 V	-110 V
2/28/2024 09:32:01	0.0 V	-200.0 V	-100 V
2/27/2024 09:16:47	0.0 V	-200.0 V	-100 V
2/26/2024 10:30:35	0.0 V	-200.0 V	-100 V
2/26/2024 10:00:21	0.0 V	-200.0 V	-110 V
2/23/2024 09:07:38	0.0 V	-200.0 V	-110 V
2/22/2024 08:58:48	0.0 V	-200.0 V	-110 V
2/21/2024 09:51:13	0.0 V	-200.0 V	-110 V
2/20/2024 09:59:52	0.0 V	-200.0 V	-110 V
2/19/2024 11:30:32	0.0 V	-200.0 V	-110 V
2/19/2024 11:27:00	0.0 V	-200.0 V	-110 V
2/19/2024 10:16:07	0.0 V	-200.0 V	-120 V
2/16/2024 10:28:26	0.0 V	-200.0 V	-120 V
2/15/2024 09:20:58	0.0 V	-200.0 V	-120 V
2/14/2024 09:20:12	0.0 V	-200.0 V	-120 V
2/13/2024 10:44:41	0.0 V	-200.0 V	-120 V
2/13/2024 10:29:18	0.0 V	-200.0 V	-120 V
2/12/2024 11:24:46	0.0 V	-200.0 V	-120 V
2/12/2024 11:09:08	0.0 V	-175.0 V	-120 V
2/12/2024 10:33:45	0.0 V	-175.0 V	-120 V
2/12/2024 10:19:52	0.0 V	-175.0 V	-120 V
2/12/2024 10:03:02	0.0 V	-200.0 V	-100 V
2/9/2024 09:43:26	0.0 V	-200.0 V	-100 V
2/8/2024 09:41:08	0.0 V	-200.0 V	-100 V
2/7/2024 09:08:34	0.0 V	-200.0 V	-100 V
2/6/2024 10:08:14	0.0 V	-200.0 V	-100 V
2/5/2024 16:27:35	0.0 V	-200.0 V	-120 V
2/2/2024 09:52:22	0.0 V	-200.0 V	-90 V
2/1/2024 09:29:20	0.0 V	-200.0 V	-90 V
1/31/2024 11:01:25	0.0 V	-200.0 V	-90 V
1/31/2024 10:56:52	0.0 V	-200.0 V	-90 V
1/30/2024 09:04:33	0.0 V	-200.0 V	-90 V
1/29/2024 09:09:33	0.0 V	-200.0 V	-90 V
1/26/2024 10:08:59	0.0 V	-200.0 V	-90 V
1/25/2024 09:54:25	0.0 V	-200.0 V	-90 V
1/24/2024 08:52:40	0.0 V	-200.0 V	-90 V
1/23/2024 11:08:41	0.0 V	-200.0 V	-90 V
1/22/2024 09:17:23	0.0 V	-200.0 V	-90 V
1/22/2024 09:06:26	0.0 V	-200.0 V	-100 V



# Performance Report

Created Date	Extract 1	Extract 2	Omega Bias
1/19/2024 09:01:45	0.0 V	-200.0 V	-100 V
1/18/2024 10:29:20	0.0 V	-200.0 V	-100 V
1/17/2024 08:52:45	0.0 V	-200.0 V	-100 V
1/16/2024 14:09:54	0.0 V	-200.0 V	-100 V
1/16/2024 13:58:35	0.0 V	-200.0 V	-100 V
1/16/2024 13:45:11	0.0 V	-200.0 V	-100 V
1/15/2024 13:03:28	0.0 V	-200.0 V	-120 V
1/15/2024 10:46:25	0.0 V	-200.0 V	-120 V
1/15/2024 10:34:05	0.0 V	-200.0 V	-120 V
1/15/2024 10:25:28	0.0 V	-200.0 V	-120 V
1/15/2024 09:48:32	0.0 V	-200.0 V	-120 V
1/15/2024 09:32:45	0.0 V	-200.0 V	-120 V
1/11/2024 14:10:39	0.0 V	-200.0 V	-120 V
1/11/2024 14:00:32	0.0 V	-200.0 V	-120 V
1/11/2024 13:07:14	0.0 V	-200.0 V	-120 V
1/11/2024 12:18:32	0.0 V	-200.0 V	-120 V
1/11/2024 10:36:51	0.0 V	-200.0 V	-120 V
1/11/2024 10:28:26	0.0 V	-185.0 V	-110 V
1/11/2024 09:11:58	0.0 V	-155.0 V	-100 V
1/11/2024 09:02:27	0.0 V	-150.0 V	-80 V
1/11/2024 08:54:00	0.0 V	-150.0 V	-80 V
1/10/2024 09:10:40	0.0 V	-200.0 V	-90 V
1/9/2024 12:58:05	0.0 V	-200.0 V	-120 V
1/9/2024 12:49:35	0.0 V	-200.0 V	-120 V
1/9/2024 12:37:33	0.0 V	-165.0 V	-100 V
1/9/2024 12:22:55	0.0 V	-165.0 V	-100 V
1/9/2024 12:00:03	0.0 V	-165.0 V	-100 V
1/9/2024 11:54:42	0.0 V	-165.0 V	-100 V
1/9/2024 11:45:17	0.0 V	-165.0 V	-100 V
1/9/2024 11:40:53	0.0 V	-165.0 V	-100 V
1/9/2024 11:25:08	0.0 V	-165.0 V	-100 V
1/9/2024 11:20:04	0.0 V	-165.0 V	-100 V
1/8/2024 13:49:37	0.0 V	-200.0 V	-100 V
1/8/2024 12:34:48	0.0 V	-140.0 V	-80 V
1/8/2024 12:30:18	0.0 V	-140.0 V	-80 V
1/5/2024 09:35:49	0.0 V	-180.0 V	-80 V
1/4/2024 09:13:21	0.0 V	-170.0 V	-80 V
1/4/2024 09:00:57	0.0 V	-160.0 V	-80 V
1/3/2024 08:46:17	0.0 V	-200.0 V	-100 V
1/2/2024 11:16:48	0.0 V	-200.0 V	-90 V
1/2/2024 10:38:17	0.0 V	-200.0 V	-100 V

# Performance Report

Created Date	Extract 1	Extract 2	Omega Bias
12/29/2023 10:12:49	0.0 V	-200.0 V	-100 V
12/28/2023 08:59:35	0.0 V	-200.0 V	-90 V
12/27/2023 12:20:02	0.0 V	-200.0 V	-90 V
12/27/2023 11:34:32	0.0 V	-200.0 V	-90 V
12/27/2023 10:51:04	0.0 V	-200.0 V	-90 V
12/27/2023 10:41:08	0.0 V	-200.0 V	-90 V
12/27/2023 10:33:50	0.0 V	-200.0 V	-90 V
12/27/2023 10:28:28	0.0 V	-200.0 V	-90 V
12/22/2023 07:49:52	0.0 V	-195.0 V	-90 V
12/21/2023 08:44:43	0.0 V	-200.0 V	-90 V
12/20/2023 09:26:41	0.0 V	-200.0 V	-100 V
12/19/2023 09:55:37	0.0 V	-200.0 V	-100 V
12/18/2023 10:16:18	0.0 V	-200.0 V	-100 V
12/18/2023 10:06:38	0.0 V	-185.0 V	-90 V
12/18/2023 10:00:26	0.0 V	-185.0 V	-90 V
12/15/2023 09:45:55	0.0 V	-200.0 V	-90 V
12/14/2023 10:23:15	0.0 V	-200.0 V	-90 V
12/13/2023 10:17:40	0.0 V	-200.0 V	-90 V
12/12/2023 09:56:00	0.0 V	-200.0 V	-90 V
12/11/2023 10:31:48	0.0 V	-200.0 V	-90 V
12/8/2023 10:10:39	0.0 V	-200.0 V	-100 V
12/7/2023 09:51:50	0.0 V	-190.0 V	-80 V
12/6/2023 10:12:37	0.0 V	-200.0 V	-100 V
12/5/2023 10:02:14	0.0 V	-200.0 V	-80 V
12/4/2023 12:08:53	0.0 V	-180.0 V	-90 V
12/4/2023 11:24:17	0.0 V	-145.0 V	-70 V
12/4/2023 11:20:06	0.0 V	-145.0 V	-70 V
12/4/2023 11:16:06	0.0 V	-145.0 V	-70 V
12/4/2023 10:23:39	0.0 V	-145.0 V	-70 V
12/4/2023 10:16:55	0.0 V	-170.0 V	-90 V
12/4/2023 10:09:27	0.0 V	-145.0 V	-70 V
12/1/2023 09:45:19	0.0 V	-155.0 V	-80 V
11/30/2023 11:48:17	0.0 V	-155.0 V	-80 V
11/30/2023 11:13:01	0.0 V	-150.0 V	-80 V
11/30/2023 11:05:44	0.0 V	-160.0 V	-90 V
11/30/2023 10:33:46	0.0 V	-170.0 V	-90 V
11/29/2023 10:04:26	0.0 V	-195.0 V	-100 V
11/29/2023 09:51:22	0.0 V	-190.0 V	-80 V
11/28/2023 12:50:37	0.0 V	-200.0 V	-80 V
11/28/2023 12:18:55	0.0 V	-175.0 V	-80 V
11/28/2023 12:15:04	0.0 V	-175.0 V	-80 V

# Performance Report

Created Date	Extract 1	Extract 2	Omega Bias
11/28/2023 11:49:24	0.0 V	-170.0 V	-80 V
11/28/2023 10:22:53	0.0 V	-165.0 V	-80 V
11/28/2023 10:19:03	0.0 V	-165.0 V	-80 V
11/28/2023 10:15:20	0.0 V	-165.0 V	-80 V
11/28/2023 09:59:37	0.0 V	-170.0 V	-70 V
11/27/2023 10:28:48	0.0 V	-165.0 V	-80 V
11/27/2023 10:07:16	0.0 V	-185.0 V	-100 V
11/27/2023 10:01:25	0.0 V	-185.0 V	-100 V
11/27/2023 09:52:06	0.0 V	-185.0 V	-100 V
11/22/2023 09:50:47	0.0 V	-155.0 V	-80 V
11/21/2023 09:52:05	0.0 V	-155.0 V	-80 V
11/20/2023 09:38:08	0.0 V	-150.0 V	-80 V
11/17/2023 10:07:38	0.0 V	-175.0 V	-90 V
11/16/2023 09:42:56	0.0 V	-180.0 V	-90 V
11/15/2023 13:01:45	0.0 V	-170.0 V	-90 V
11/15/2023 12:33:52	0.0 V	-175.0 V	-90 V
11/15/2023 12:27:35	0.0 V	-175.0 V	-90 V
11/15/2023 12:17:35	0.0 V	-175.0 V	-90 V
11/15/2023 12:09:42	0.0 V	-170.0 V	-90 V
11/15/2023 10:39:09	0.0 V	-175.0 V	-90 V
11/14/2023 10:25:03	0.0 V	-200.0 V	-90 V
11/13/2023 09:42:07	0.0 V	-200.0 V	-90 V
11/10/2023 09:15:37	0.0 V	-200.0 V	-90 V
11/9/2023 09:55:52	0.0 V	-200.0 V	-90 V
11/8/2023 09:55:56	0.0 V	-200.0 V	-100 V
11/7/2023 10:07:52	0.0 V	-200.0 V	-120 V
11/7/2023 10:01:12	0.0 V	-195.0 V	-90 V
11/7/2023 09:55:11	0.0 V	-195.0 V	-90 V
11/6/2023 10:21:52	0.0 V	-200.0 V	-100 V
11/3/2023 09:44:39	0.0 V	-200.0 V	-120 V
11/2/2023 09:56:11	0.0 V	-200.0 V	-90 V
11/1/2023 09:41:33	0.0 V	-195.0 V	-90 V

# Internal Standards

INTERNAL STANDARD AREA AND RT SUMMARY

RunID: ICP-MS 2 AGILENT 7850 240821F CCV Name: CAL BLANK  
 Run No: 93809 CCV SeqNo: 1959075  
 Lab File ID (Standard): 003CALB.d Date Analyzed: 8/21/2024  
 Instrument ID: ICP-MS 2 Agilent 7850 Time Analyzed: 8:41  
 GC Column: ID (mm): Length (M):

	IS1 Lithium 6		IS2 Scandium		IS3 Germanium		IS4 Indium		
	AREA #	RT #	AREA #	RT #	AREA #	RT #	AREA #	RT #	
12 HOUR STD	1428274.38	0.000	258575.91	0.000	177931.34	0.000	1916740.71	0.000	
UPPER LIMIT	7141371.9	1.000	1292879.55	1.000	889656.7	1.000	9583703.55	1.000	
LOWER LIMIT	428482	-1.000	77573	-1.000	53379	-1.000	575022	-1.000	
SAMPLE NO.									
01	ICV	1.51486e+006	0	248001	0	164675	0	1.75013e+006	0
02	ICSA	1.46481e+006	0	236092	0	160041	0	1.69786e+006	0
03	CCV-A	1.50898e+006	0	237831	0	163115	0	1.78863e+006	0
04	CCB-A	1.44839e+006	0	241157	0	164806	0	1.7801e+006	0
05	MB-44939	1.55106e+006	0	246739	0	170757	0	1.80364e+006	0
06	LCS-44939	1.4229e+006	0	240250	0	165309	0	1.76475e+006	0
07	2408246-001C	1.44602e+006	0	235080	0	161246	0	1.68416e+006	0
08	2408246-001CDUP	1.47574e+006	0	232377	0	159829	0	1.67826e+006	0
09	2408246-001CMS	1.53505e+006	0	234828	0	159680	0	1.68191e+006	0
10	2408246-001CMSDIL	1.5243e+006	0	231668	0	160794	0	1.73204e+006	0
11	2408246-002C	1.47831e+006	0	234355	0	161963	0	1.68587e+006	0
12	2408246-003C	1.53757e+006	0	237961	0	162741	0	1.74376e+006	0
13	CCV-B	1.54073e+006	0	238368	0	163442	0	1.78596e+006	0
14	CCB-B	1.59283e+006	0	239856	0	165612	0	1.80639e+006	0
15	2408246-004C	1.58569e+006	0	250131	0	167954	0	1.72989e+006	0
16	2408246-005C	1.59036e+006	0	255802	0	170173	0	1.73408e+006	0
17	2408246-006C	1.42343e+006	0	252071	0	163676	0	1.65543e+006	0
18	2408246-007C	1.49802e+006	0	253085	0	163477	0	1.69472e+006	0
19	2408246-008C	1.71446e+006	0	258391	0	170598	0	1.75325e+006	0
20	2408247-001C	1.09191e+006	0	242786	0	148591	0	1.41119e+006	0
21	2408247-002C	1.36025e+006	0	251782	0	157636	0	1.52293e+006	0
22	2408247-002CMS	1.35624e+006	0	258881	0	161839	0	1.59481e+006	0
23	2408247-002CMSD	1.39941e+006	0	259555	0	164473	0	1.62534e+006	0
24	2408247-003C	1.3988e+006	0	266893	0	165254	0	1.64661e+006	0
25	CCV-C	2.12005e+006	0	321295	0	209097	0	2.14985e+006	0
26	CCB-C	2.20029e+006	0	310402	0	203941	0	2.18071e+006	0
27	2408247-004C	1.28748e+006	0	261070	0	161189	0	1.65013e+006	0
28	2408312-001D	2.1726e+006	0	291402	0	198591	0	2.08943e+006	0
29	2408312-002D	2.06253e+006	0	285914	0	191036	0	1.95267e+006	0
30	2408312-003D	2.02617e+006	0	280314	0	186950	0	1.95488e+006	0
31	2408312-004D	1.94611e+006	0	273962	0	185908	0	1.96877e+006	0
32	CCV-D	2.01157e+006	0	285708	0	187319	0	2.01103e+006	0
33	CCB-D	1.89457e+006	0	282922	0	188332	0	2.07224e+006	0
34	LDR	1.67613e+006	0	266091	0	176823	0	1.74591e+006	0

IS1 Lithium 6 = Lithium 6  
 IS2 Scandium = Scandium

IS3 Germanium = germanium  
 IS4 Indium = Indium

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

INTERNAL STANDARD AREA AND RT SUMMARY

RunID:	<u>ICP-MS 2 AGILENT 7850 240821F</u>	CCV Name:	<u>CAL BLANK</u>
Run No:	<u>93809</u>	CCV SeqNo:	<u>1959075</u>
Lab File ID (Standard):	<u>003CALB.d</u>	Date Analyzed:	<u>8/21/2024</u>
Instrument ID:	<u>ICP-MS 2 Agilent 7850</u>	Time Analyzed:	<u>8:41</u>
GC Column:	ID (mm):	Length (M):	

# 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 240821F

CCV Name: CAL BLANK

Run No: 93809

CCV SeqNo: 1959075

Lab File ID (Standard): 003CALB.d

Date Analyzed: 8/21/2024

Instrument ID: ICP-MS 2 Agilent 7850

Time Analyzed: 8:41

GC Column: ID (mm):

Length (M):

	IS5 Terbium AREA #	RT #						
12 HOUR STD	3981008.5	0.000						
UPPER LIMIT	19905042.5	1.000						
LOWER LIMIT	1194303	-1.000						
SAMPLE NO.								
01 CCV-A	4.01799e+006	0						
02 CCB-A	4.07319e+006	0						
03 MB-44939	4.00707e+006	0						
04 LCS-44939	4.06539e+006	0						
05 2408246-001C	4.03256e+006	0						
06 2408246-001CDUP	3.97868e+006	0						
07 2408246-001CMS	3.94391e+006	0						
08 2408246-001CMSDIL	4.06357e+006	0						
09 2408246-002C	4.2147e+006	0						
10 2408246-003C	3.97725e+006	0						
11 CCV-B	4.14903e+006	0						
12 CCB-B	4.00861e+006	0						
13 2408246-004C	3.8288e+006	0						
14 2408246-005C	3.97179e+006	0						
15 2408246-006C	3.77071e+006	0						
16 2408246-007C	3.75614e+006	0						
17 2408246-008C	3.89492e+006	0						
18 2408247-001C	3.00631e+006	0						
19 2408247-002C	3.22458e+006	0						
20 2408247-002CMS	3.26737e+006	0						
21 2408247-002CMSD	3.3179e+006	0						
22 2408247-003C	3.22936e+006	0						
23 CCV-C	4.22465e+006	0						
24 CCB-C	4.12764e+006	0						
25 2408247-004C	3.21348e+006	0						
26 2408312-001D	4.2164e+006	0						
27 2408312-002D	4.12047e+006	0						
28 2408312-003D	4.17874e+006	0						
29 2408312-004D	4.00582e+006	0						
30 CCV-D	4.18556e+006	0						
31 CCB-D	4.3607e+006	0						
32 LDR	4.01885e+006	0						
33 ICV	3.96502e+006	0						
34 ICSA	3.84382e+006	0						

IS5 Terbium = Terbium

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

INTERNAL STANDARD AREA AND RT SUMMARY

RunID:	<u>ICP-MS 2 AGILENT 7850 240821F</u>	CCV Name:	<u>CAL BLANK</u>
Run No:	<u>93809</u>	CCV SeqNo:	<u>1959075</u>
Lab File ID (Standard):	<u>003CALB.d</u>	Date Analyzed:	<u>8/21/2024</u>
Instrument ID:	<u>ICP-MS 2 Agilent 7850</u>	Time Analyzed:	<u>8:41</u>
GC Column:	ID (mm):	Length (M):	

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 240821F CCV Name: CAL BLANK  
 Run No: 93809 CCV SeqNo: 1959752  
 Lab File ID (Standard): 003CALB.d Date Analyzed: 8/22/2024  
 Instrument ID: ICP-MS 2 Agilent 7850 Time Analyzed: 12:14  
 GC Column: ID (mm): Length (M):

	IS1 Lithium 6		IS2 Scandium		IS3 Germanium		IS4 Indium		
	AREA #	RT #	AREA #	RT #	AREA #	RT #	AREA #	RT #	
12 HOUR STD	1478236.95	0.000	138111.15	0.000	106263.47	0.000	1266419.82	0.000	
UPPER LIMIT	7391184.75	1.000	690555.75	1.000	531317.35	1.000	6332099.1	1.000	
LOWER LIMIT	443471	-1.000	41433	-1.000	31879	-1.000	379926	-1.000	
SAMPLE NO.									
01	ICV	1.51427e+006	0	142258	0	107399	0	1.21994e+006	0
02	ICSA	1.49676e+006	0	139882	0	106586	0	1.13158e+006	0
03	CCV-A	1.50582e+006	0	137187	0	107129	0	1.2276e+006	0
04	CCB-A	1.49399e+006	0	133857	0	105444	0	1.24704e+006	0
05	MB-44939	1.52001e+006	0	136494	0	105849	0	1.20611e+006	0
06	CCV-B	1.5858e+006	0	138859	0	106927	0	1.23258e+006	0
07	CCB-B	1.44693e+006	0	136195	0	106026	0	1.2343e+006	0
08	2408246-002C	1.50421e+006	0	135381	0	104638	0	1.20352e+006	0
09	2408246-004C	1.39373e+006	0	145164	0	110568	0	1.18846e+006	0
10	2408246-005C	1.49932e+006	0	150522	0	113864	0	1.22067e+006	0
11	2408246-006C	1.48016e+006	0	153306	0	112127	0	1.19449e+006	0
12	2408246-007C	1.4762e+006	0	155745	0	115464	0	1.23332e+006	0
13	2408246-008C	1.59809e+006	0	161423	0	119827	0	1.31114e+006	0
14	2408247-001C	1.32324e+006	0	150872	0	102687	0	1.00868e+006	0
15	2408247-002C	1.39926e+006	0	159608	0	111913	0	1.07889e+006	0
16	CCV-C	1.8863e+006	0	188471	0	137216	0	1.49479e+006	0
17	CCB-C	1.79208e+006	0	185966	0	136094	0	1.48769e+006	0
18	CCV-C	1.77682e+006	0	178327	0	131808	0	1.50261e+006	0
19	CCV-C	1.77882e+006	0	173976	0	128081	0	1.44684e+006	0
20	2408247-002CMS	1.34203e+006	0	155238	0	108951	0	1.07082e+006	0
21	2408247-002CMSD	1.42235e+006	0	162854	0	114500	0	1.11986e+006	0
22	2408247-003C	1.39894e+006	0	167161	0	117147	0	1.1374e+006	0
23	2408247-004C	1.97341e+006	0	204897	0	147027	0	1.59497e+006	0
24	CCV-D	1.9099e+006	0	164086	0	124180	0	1.41648e+006	0
25	CCV-D	1.86632e+006	0	160092	0	122623	0	1.37499e+006	0
26	MB-44951	1.74272e+006	0	156047	0	120655	0	1.38875e+006	0
27	CCB-D	1.70999e+006	0	153113	0	120496	0	1.42093e+006	0

IS1 Lithium 6 = Lithium 6  
 IS2 Scandium = Scandium

IS3 Germanium = germanium  
 IS4 Indium = Indium

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 240821F CCV Name: CAL BLANK  
 Run No: 93809 CCV SeqNo: 1959752  
 Lab File ID (Standard): 003CALB.d Date Analyzed: 8/22/2024  
 Instrument ID: ICP-MS 2 Agilent 7850 Time Analyzed: 12:14  
 GC Column: ID (mm): Length (M):

	IS5 Terbium AREA #	RT #						
12 HOUR STD	3489506.33	0.000						
UPPER LIMIT	17447531.65	1.000						
LOWER LIMIT	1046852	-1.000						
SAMPLE NO.								
01	ICV	3.53821e+006	0					
02	ICSA	3.32814e+006	0					
03	CCV-A	3.55153e+006	0					
04	CCB-A	3.46345e+006	0					
05	MB-44939	3.53508e+006	0					
06	CCV-B	3.53019e+006	0					
07	CCB-B	3.54493e+006	0					
08	2408246-002C	3.48319e+006	0					
09	2408246-004C	3.4251e+006	0					
10	2408246-005C	3.46248e+006	0					
11	2408246-006C	3.4078e+006	0					
12	2408246-007C	3.36074e+006	0					
13	2408246-008C	3.56791e+006	0					
14	2408247-001C	2.79681e+006	0					
15	2408247-002C	2.95243e+006	0					
16	CCV-C	3.77366e+006	0					
17	CCB-C	3.8263e+006	0					
18	CCV-C	3.80667e+006	0					
19	CCV-C	3.7488e+006	0					
20	2408247-002CMS	3.01132e+006	0					
21	2408247-002CMSD	3.01758e+006	0					
22	2408247-003C	3.04865e+006	0					
23	2408247-004C	3.76012e+006	0					
24	CCV-D	3.85566e+006	0					
25	CCV-D	3.86516e+006	0					
26	MB-44951	3.80672e+006	0					
27	CCB-D	3.8836e+006	0					

IS5 Terbium = Terbium

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.

# Supporting Data

### 3010A Dissolved Metals in Water Prep Bench Sheet

Analyst: <u>Carina Grandia</u>	Equipment	Spikes / Chemicals / Reagents	Omega ID	Amount Used
Date and Time: <u>8/21/2024</u>	Pipette: <u>42</u>	Metals Water Spike	<u>30157</u>	0.2 mL
Batch: <u>44939</u>	Other:	EAL-STD-2	<u>89587</u>	0.1 mL
		500 ppb Hg Standard	<u>30256</u>	0.05 mL
Final Volume Before Analysis: <u>10 mL</u>		10mL Tubes	<u>8376</u>	
		pH Strips	<u>30192</u>	<u>3190</u>
Notes/Modifications				

I acknowledge the spike/chemical/reagent amounts listed above were used	Initial/Date
	<u>CG 8/21/2024</u>

Samples verified pH < 2	Initial/Date
	<u>CG 8/21/2024</u>

Dilutions	
Sample ID	Dilution Description

Sign and date below if you contributed to this preparation batch
<u>Carina Grandia 8/21/2024</u>

Prep Start Date: 8/21/2024 10:29:52

Prep End Date:

Technician: Cammeo Gaviota

Prep Factor Units:  
mL / mL

Prep Batch ID: 44939 Prep Code: PREP-3010-D

Method No: SW3010A

Sample ID	ClientSampleID	Matrix	Sample Amount (mL)	Final Vol (mL)	Prep Factor	PrepStart	PrepEnd
MB-44939		Aqueous	10	10	1.000	8/21/2024	Preliminary
LCS-44939		Aqueous	10	10	1.000	8/21/2024	Preliminary
2408246-001C	GW-MW501-0824	Water	10	10	1.000	8/21/2024	Preliminary
2408246-001CDUP		Water	10	10	1.000	8/21/2024	Preliminary
2408246-001CMS		Water	10	10	1.000	8/21/2024	Preliminary
2408246-002C	GW-MW502-0824	Water	10	10	1.000	8/21/2024	Preliminary
2408246-003C	GW-MW503-0824	Water	10	10	1.000	8/21/2024	Preliminary
2408246-004C	GW-MW504-0824	Water	10	10	1.000	8/21/2024	Preliminary
2408246-005C	GW-MW505-0824	Water	10	10	1.000	8/21/2024	Preliminary
2408246-006C	GW-MW506-0824	Water	10	10	1.000	8/21/2024	Preliminary
2408246-007C	GW-MW506-0824-01	Water	10	10	1.000	8/21/2024	Preliminary
2408246-008C	GW-MW201-0824	Water	10	10	1.000	8/21/2024	Preliminary
2408247-001C	GW-MW401-0824	Water	10	10	1.000	8/21/2024	Preliminary
2408247-002C	GW-MW402-0824	Water	10	10	1.000	8/21/2024	Preliminary
2408247-002CMS		Water	10	10	1.000	8/21/2024	Preliminary
2408247-002CMSD		Water	10	10	1.000	8/21/2024	Preliminary
2408247-003C	GW-MW402-0824-01	Water	10	10	1.000	8/21/2024	Preliminary
2408247-004C	GW-MW403-0824	Water	10	10	1.000	8/21/2024	Preliminary
2408312-001D	GEI-11_082024	Water	10	10	1.000	8/21/2024	Preliminary
2408312-002D	GEI-12_082024	Water	10	10	1.000	8/21/2024	Preliminary
2408312-003D	GEI-13_082024	Water	10	10	1.000	8/21/2024	Preliminary
2408312-004D	Dup_082024	Water	10	10	1.000	8/21/2024	Preliminary



Prep Start Date: **8/21/2024 10:29:52**  
 Prep End Date: **8/21/2024 4:03:17 P**  
 Technician: **Cammeo Gaviota**

Prep Factor Units:  
 mL / mL

Prep Batch ID: **44939** Prep Code: **PREP-3010-D** Method No: **SW3010A**

Sample ID	ClientSampleID	Matrix	Sample Amount (mL)	Final Vol (mL)	Prep Factor	PrepStart	PrepEnd
MB-44939		Aqueous	10	10	1.000	8/21/2024	8/21/2024
LCS-44939		Aqueous	10	10	1.000	8/21/2024	8/21/2024
2408246-001C	GW-MW501-0824	Water	10	10	1.000	8/21/2024	8/21/2024
2408246-001CDUP		Water	10	10	1.000	8/21/2024	8/21/2024
2408246-001CMS		Water	10	10	1.000	8/21/2024	8/21/2024
2408246-002C	GW-MW502-0824	Water	10	10	1.000	8/21/2024	8/21/2024
2408246-003C	GW-MW503-0824	Water	10	10	1.000	8/21/2024	8/21/2024
2408246-004C	GW-MW504-0824	Water	10	10	1.000	8/21/2024	8/21/2024
2408246-005C	GW-MW505-0824	Water	10	10	1.000	8/21/2024	8/21/2024
2408246-006C	GW-MW506-0824	Water	10	10	1.000	8/21/2024	8/21/2024
2408246-007C	GW-MW506-0824-01	Water	10	10	1.000	8/21/2024	8/21/2024
2408246-008C	GW-MW201-0824	Water	10	10	1.000	8/21/2024	8/21/2024
2408247-001C	GW-MW401-0824	Water	10	10	1.000	8/21/2024	8/21/2024
2408247-002C	GW-MW402-0824	Water	10	10	1.000	8/21/2024	8/21/2024
2408247-002CMS		Water	10	10	1.000	8/21/2024	8/21/2024
2408247-002CMSD		Water	10	10	1.000	8/21/2024	8/21/2024
2408247-003C	GW-MW402-0824-01	Water	10	10	1.000	8/21/2024	8/21/2024
2408247-004C	GW-MW403-0824	Water	10	10	1.000	8/21/2024	8/21/2024
2408312-001D	GEI-11_082024	Water	10	10	1.000	8/21/2024	8/21/2024
2408312-002D	GEI-12_082024	Water	10	10	1.000	8/21/2024	8/21/2024
2408312-003D	GEI-13_082024	Water	10	10	1.000	8/21/2024	8/21/2024
2408312-004D	Dup_082024	Water	10	10	1.000	8/21/2024	8/21/2024
2408246-001CMSDIL		Water	10	10	1.000	8/21/2024	8/21/2024

# Reporting Checklist



Analyst: Melanie  
 Date: 08/22/2024  
 Prep #: 44939  
 Run(s) #: 93809

Workorder(s): 2408246, 247, 312  
 Analysis: M-6020-D

Y/N Reviewed

Y	Run complete? (i.e., all QC, samples, dilutions present)	
N	All QC within limits? <span style="border: 1px solid black; display: inline-block; width: 50px; height: 15px;"></span> Exceedances acceptable per QA Manual and/or Auth'd by PM ___?	

CCV out   
 LCS out   
 MS out   
 Blank hits   
 IS/surr out   
 RPD out  
Hold time   
 Other LLCV

B-flags for Zn, re-ran MB and resolved flags  
 CCV-B failed low for Ni, re-ran affected samples  
 CCV-C ins second half failed low for Ni, ran two consecutive CCV's that recovered within range

N Any pending dilutions, re-extracts, or reanalysis to be completed in future run?

N/A	Manual entries/narratives reviewed for accuracy? (note below)	Analyst:	Reviewer:	
-----	---	----------	-----------	--

<input checked="" type="checkbox"/>	Omega checks performed?	
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- SampID, Test Code, Type, Prep
- PMOIST, pH
- BLKref, SPKref, RPDref, CCVref
- Attachments
- Sequence       Cgrams       Bench Sheets       Perf Checks       Tech Doc
- Related Info
- ICAL Ref       ICAL Ack/QA'd?       Spiking Info/CCV Std       \_\_\_\_\_
- Reporting Checks
- Dilutions data/narr redundancy check       RLs OK (low wt, high pmoist, dilutions)

**Notes for Reviewer**

Accidentally ran two CCV's instead of CCV/B pair at end of run. I've included MB that ran after as well as a CCB ran immediately after

By signing, I attest that I have followed the SOP

**Melanie Esparza 08/22/2024**

**mwdl 8/22/24**

Analyst Date

Reviewer Date

Signature: AK

**DATA SET for Review - Deliverable Requirements**

**EDB by EPA 8011**

Fremont Analytical Work Order No. 2408312

**GeoEngineers**

Project Name: 701/709 South Jackson

Project Number: 24504-001-04

This data set contains the following:

- Analytical Sequence Summary
- Calibration Information



Data Directory: D:\GC-25\Data\2024\082324\

SampleName	MiscInfo	Vial	Multiplier	Injection Time
1) 082301.D co	PCB_GC25_PEST_190228.M	150	1.000	23 Aug 2024 08:29 am
2) 082302.D co	PCB_GC25_PEST_190228.M	150	1.000	23 Aug 2024 08:38 am
3) 082303.D deg check	PCB_GC25_PEST_190228.M	1	1.000	23 Aug 2024 08:48 am
4) 082304.D co	PCB_GC25_PEST_190228.M	150	1.000	23 Aug 2024 08:58 am
5) 082305.D LAD PEST IDC 1	PCB_GC25_PEST_190228.M	3	1.000	23 Aug 2024 09:07 am
6) 082306.D co	PCB_GC25_PEST_190228.M	150	1.000	23 Aug 2024 09:17 am
7) 082307.D LAD PEST IDC 2	PCB_GC25_PEST_190228.M	3	1.000	23 Aug 2024 09:26 am
8) 082308.D co	PCB_GC25_PEST_190228.M	150	1.000	23 Aug 2024 09:36 am
9) 082309.D LAD PEST IDC 3	PCB_GC25_PEST_190228.M	3	1.000	23 Aug 2024 09:45 am
10) 082310.D co	PCB_GC25_PEST_190228.M	150	1.000	23 Aug 2024 09:55 am
11) 082311.D LAD PEST IDC 4	PCB_GC25_PEST_190228.M	3	1.000	23 Aug 2024 10:05 am
12) 082312.D co	PCB_GC25_PEST_190228.M	150	1.000	23 Aug 2024 11:14 am
13) 082313.D PEST-CCV-	PCB_GC25_PEST_190228.M	3	1.000	23 Aug 2024 11:24 am
14) 082314.D co	PCB_GC25_PEST_190228.M	150	1.000	23 Aug 2024 11:33 am
15) 082315.D TOX-CCV-	PCB_GC25_PEST_190228.M	4	1.000	23 Aug 2024 11:43 am
16) 082316.D co	PCB_GC25_PEST_190228.M	150	1.000	23 Aug 2024 11:52 am
17) 082317.D CHLOR-CCV-	PCB_GC25_PEST_190228.M	5	1.000	23 Aug 2024 12:02 pm
18) 082318.D co	PCB_GC25_PEST_190228.M	150	1.000	23 Aug 2024 12:47 pm
19) 082319.D co	PCB_GC25_PEST_190228.M	150	1.000	23 Aug 2024 12:57 pm
20) 082320.D LAD TOX IDC 1	PCB_GC25_PEST_190228.M	4	1.000	23 Aug 2024 01:07 pm
21) 082321.D co	PCB_GC25_PEST_190228.M	150	1.000	23 Aug 2024 01:16 pm

22)	082322.D	PCB_GC25_PEST_190228.M	5	1.000	23 Aug 2024	01:26	pm
-----							
	23) 082323.D	PCB_GC25_PEST_190228.M					
LAD	TOX IDC 2		4	1.000	23 Aug 2024	01:39	pm
-----							
	24) 082324.D	PCB_GC25_PEST_190228.M					
LAD	TOX IDC 3		4	1.000	23 Aug 2024	01:49	pm
-----							
	25) 082325.D	PCB_GC25_PEST_190228.M					
LAD	TOX IDC 4		4	1.000	23 Aug 2024	01:58	pm
-----							
	26) 082326.D	PCB_GC25_PEST_190228.M					
LAD	CHLOR IDC 2		5	1.000	23 Aug 2024	02:10	pm
-----							
	27) 082327.D	PCB_GC25_PEST_190228.M					
LAD	CHLOR IDC 3		5	1.000	23 Aug 2024	02:19	pm
-----							
	28) 082328.D	PCB_GC25_PEST_190228.M					
LAD	CHLOR IDC 4		5	1.000	23 Aug 2024	02:29	pm
-----							
	29) 082329.D	PCB_GC25_PEST_190228.M					
co			150	1.000	23 Aug 2024	02:59	pm
-----							
	30) 082330.D	8011.M					
co			150	1.000	23 Aug 2024	03:11	pm
-----							
	31) 082331.D	8011.M					
co			150	1.000	23 Aug 2024	03:20	pm
-----							
	32) 082332.D	8011.M					
co			150	1.000	23 Aug 2024	03:37	pm
-----							
	33) 082333.D	8011.M					
CAL	1 0.01		101	1.000	23 Aug 2024	03:45	pm
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	34) 082334.D	8011.M					
CAL	2 0.02		102	1.000	23 Aug 2024	03:53	pm
-----							
	35) 082335.D	8011.M					
CAL	3 0.1		103	1.000	23 Aug 2024	04:01	pm
-----							
	36) 082336.D	8011.M					
CAL	4 0.2		104	1.000	23 Aug 2024	04:09	pm
-----							
	37) 082337.D	8011.M					
CAL	5 0.5		105	1.000	23 Aug 2024	04:18	pm
-----							
	38) 082338.D	8011.M					
CAL	6 1.0		106	1.000	23 Aug 2024	04:26	pm
-----							
	39) 082339.D	8011.M					
CAL	7 2.0		107	1.000	23 Aug 2024	04:34	pm
-----							
	40) 082340.D	8011.M					
ICV			108	1.000	23 Aug 2024	04:42	pm
-----							
	41) 082341.D	8011.M					
ICB			109	1.000	23 Aug 2024	04:50	pm
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Data Directory: D:\GC-25\Data\2024\082624\

SampleName	MiscInfo	Vial	Multiplier	Injection Time
1) 082601.D co	PCB_GC25_PEST_190228.M	150	1.000	26 Aug 2024 08:02 am
2) 082602.D co	PCB_GC25_PEST_190228.M	150	1.000	26 Aug 2024 08:12 am
3) 082603.D deg check	PCB_GC25_PEST_190228.M	1	1.000	26 Aug 2024 08:22 am
4) 082604.D co	PCB_GC25_PEST_190228.M	150	1.000	26 Aug 2024 08:31 am
5) 082605.D PEST-CCV-	PCB_GC25_PEST_190228.M	3	1.000	26 Aug 2024 08:41 am
6) 082606.D TOX-CCV-	PCB_GC25_PEST_190228.M	4	1.000	26 Aug 2024 09:11 am
7) 082607.D LAD CHLOR IDC 1	PCB_GC25_PEST_190228.M	5	1.000	26 Aug 2024 09:21 am
8) 082608.D MB-44958	PCB_GC25_PEST_190228.M	51	1.000	26 Aug 2024 10:05 am
9) 082609.D PEST MDL	PCB_GC25_PEST_190228.M	59	1.000	26 Aug 2024 10:15 am
10) 082610.D TOX MDL	PCB_GC25_PEST_190228.M	60	1.000	26 Aug 2024 10:25 am
11) 082611.D TOX LOQ	PCB_GC25_PEST_190228.M	61	1.000	26 Aug 2024 10:34 am
12) 082612.D CHLOR MDL	PCB_GC25_PEST_190228.M	62	1.000	26 Aug 2024 10:44 am
13) 082613.D PEST-CCV-	PCB_GC25_PEST_190228.M	3	1.000	26 Aug 2024 10:53 am
14) 082614.D co	PCB_GC25_PEST_190228.M	150	1.000	26 Aug 2024 11:03 am
15) 082615.D co	8011.M	150	1.000	26 Aug 2024 11:15 am
16) 082616.D co	8011.M	150	1.000	26 Aug 2024 11:24 am
17) 082617.D CO 8011 IDC 1	8011.M	2	1.000	26 Aug 2024 11:32 am
18) 082618.D co	8011.M	150	1.000	26 Aug 2024 11:40 am
19) 082619.D CO 8011 IDC 2	8011.M	2	1.000	26 Aug 2024 11:48 am
20) 082620.D co	8011.M	150	1.000	26 Aug 2024 11:57 am
21) 082621.D CO 8011 IDC 3	8011.M	2	1.000	26 Aug 2024 12:05 pm

22)	082622.D	8011.M	150	1.000	26 Aug 2024	12:13 pm
-----						
23)	082623.D	8011.M				
CO	8011 IDC 4		2	1.000	26 Aug 2024	12:21 pm
-----						
24)	082624.D	8011.M				
CO			150	1.000	26 Aug 2024	12:30 pm
-----						
25)	082625.D	PCB_GC25_PEST_190228.M				
CO			150	1.000	26 Aug 2024	12:54 pm
-----						
26)	082626.D	PCB_GC25_PEST_190228.M				
CO			150	1.000	26 Aug 2024	01:04 pm
-----						
27)	082627.D	PCB_GC25_PEST_190228.M				
CO			150	1.000	26 Aug 2024	01:14 pm
-----						
28)	082628.D	PCB_GC25_PEST_190228.M				
CHLOR	LOQ		63	1.000	26 Aug 2024	01:23 pm
-----						
29)	082629.D	PCB_GC25_PEST_190228.M				
CO			150	1.000	26 Aug 2024	01:33 pm
-----						
30)	082630.D	8011.M				
CO			150	1.000	26 Aug 2024	01:46 pm
-----						
31)	082631.D	8011.M				
MB-44994			11	1.000	26 Aug 2024	01:54 pm
-----						
32)	082632.D	8011.M				
LCS-44994			12	1.000	26 Aug 2024	02:02 pm
-----						
33)	082633.D	8011.M				
LCS-44994			13	1.000	26 Aug 2024	02:10 pm
-----						
34)	082634.D	8011.M				
2408312-001E			14	1.000	26 Aug 2024	02:19 pm
-----						
35)	082635.D	8011.M				
2408312-002E			15	1.000	26 Aug 2024	02:27 pm
-----						
36)	082636.D	8011.M				
2408312-003E			16	1.000	26 Aug 2024	02:35 pm
-----						
37)	082637.D	8011.M				
2408312-004E			17	1.000	26 Aug 2024	02:44 pm
-----						
38)	082638.D	8011.M				
2407014-003A			18	1.000	26 Aug 2024	02:52 pm
-----						
39)	082639.D	8011.M				
2407018-020A			19	1.000	26 Aug 2024	03:00 pm
-----						
40)	082640.D	8011.M				
CO			150	1.000	26 Aug 2024	03:08 pm
-----						
41)	082641.D	8011.M				
8011-CCV-			2	1.000	26 Aug 2024	03:17 pm
-----						
42)	082642.D	8011.M				
CO			149	1.000	26 Aug 2024	03:25 pm
-----						
43)	082643.D	PCB_GC25_PEST_190228.M				
CO			150	1.000	26 Aug 2024	03:33 pm
-----						
44)	082644.D	PCB_GC25_PEST_190228.M				
CO			150	1.000	26 Aug 2024	03:43 pm
-----						
45)	082645.D	PCB_GC25_PEST_190228.M				

		150	1.000	26 Aug 2024	03:53	pm
46) 082646.D LCS1-44959	PCB_GC25_PEST_190228.M	52	1.000	26 Aug 2024	04:02	pm
47) 082647.D LCS2-44959	PCB_GC25_PEST_190228.M	53	1.000	26 Aug 2024	04:12	pm
48) 082648.D LCS3-44959	PCB_GC25_PEST_190228.M	54	1.000	26 Aug 2024	04:21	pm
49) 082649.D 2408368-001A	PCB_GC25_PEST_190228.M	55	1.000	26 Aug 2024	04:31	pm
50) 082650.D 2408369-001A	PCB_GC25_PEST_190228.M	56	1.000	26 Aug 2024	04:41	pm
51) 082651.D 2408369-001ADUP	PCB_GC25_PEST_190228.M	57	1.000	26 Aug 2024	04:50	pm
52) 082652.D 2408373-001B	PCB_GC25_PEST_190228.M	58	1.000	26 Aug 2024	05:00	pm
53) 082653.D co	PCB_GC25_PEST_190228.M	150	1.000	26 Aug 2024	05:10	pm
54) 082654.D co	PCB_GC25_PEST_190228.M	150	1.000	26 Aug 2024	05:19	pm
55) 082655.D co	PCB_GC25_PEST_190228.M	150	1.000	26 Aug 2024	05:29	pm
56) 082656.D PEST-CCV-	PCB_GC25_PEST_190228.M	3	1.000	26 Aug 2024	05:38	pm
57) 082657.D LAD CHLOR IDC 2	PCB_GC25_PEST_190228.M	5	1.000	26 Aug 2024	05:48	pm
58) 082658.D LAD CHLOR IDC 3	PCB_GC25_PEST_190228.M	5	1.000	26 Aug 2024	05:57	pm
59) 082659.D LAD CHLOR IDC 4	PCB_GC25_PEST_190228.M	5	1.000	26 Aug 2024	06:07	pm

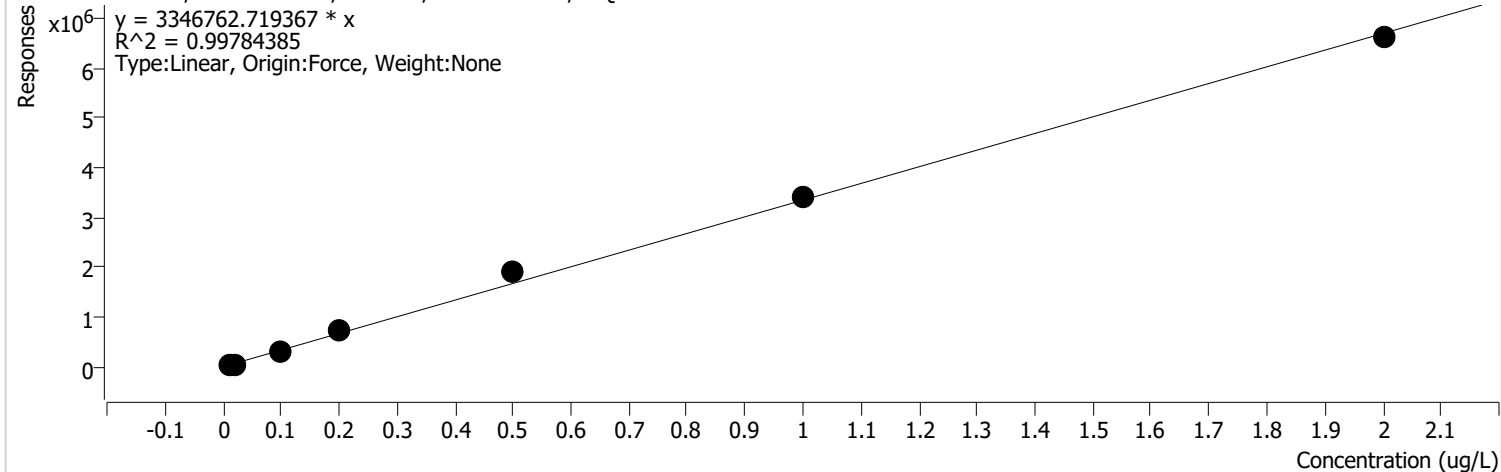
# Calibration

# Calibration Report

<b>Batch Path</b>	D:\GC-25\Data\2024\082324\QuantResults\8011 ICAL.batch.bin	<b>Analyst Name</b>	FA\GC1625
<b>Analysis Time</b>	8/26/2024 2:33 PM	<b>Reporter Name</b>	FA\GC1625
<b>Report Time</b>	8/26/2024 2:35:15 PM	<b>Batch State</b>	Processed
<b>Last Calib Update</b>	8/26/2024 2:30 PM	<b>Quant Report Version</b>	10.0
<b>Quant Batch Version</b>	10.0		

**EDB #2 %RSE = 33.9**

EDB #2 - 7 Levels, 7 Levels Used, 7 Points, 7 Points Used, 0 QCs



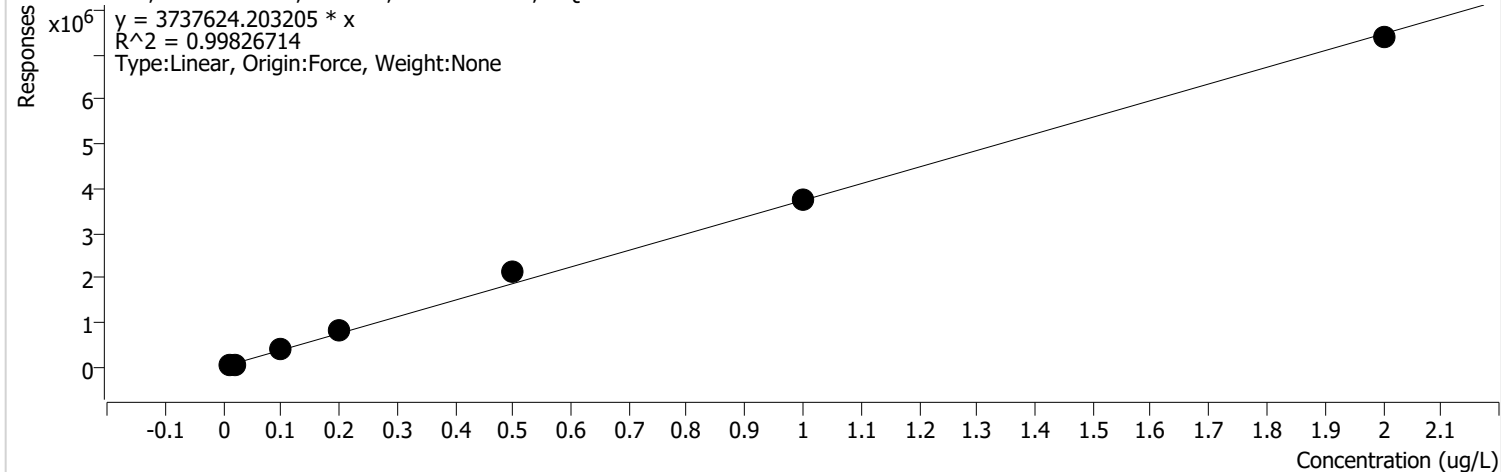
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-25\Data\2024\082324\082333.D	Calibration	1	x	16776	0.0100	1677615.0000	
D:\GC-25\Data\2024\082324\082334.D	Calibration	2	x	30454	0.0200	1522712.5000	
D:\GC-25\Data\2024\082324\082335.D	Calibration	3	x	324795	0.1000	3247954.6017	
D:\GC-25\Data\2024\082324\082336.D	Calibration	4	x	713078	0.2000	3565389.6789	
D:\GC-25\Data\2024\082324\082337.D	Calibration	5	x	1923286	0.5000	3846571.8151	
D:\GC-25\Data\2024\082324\082338.D	Calibration	6	x	3392660	1.0000	3392659.9055	
D:\GC-25\Data\2024\082324\082339.D	Calibration	7	x	6604670	2.0000	3302335.2388	

# Calibration Report

<b>Batch Path</b>	D:\GC-25\Data\2024\082324\QuantResults\8011 ICAL.batch.bin	<b>Analyst Name</b>	FA\GC1625
<b>Analysis Time</b>	8/26/2024 2:33 PM	<b>Reporter Name</b>	FA\GC1625
<b>Report Time</b>	8/26/2024 2:35:16 PM	<b>Batch State</b>	Processed
<b>Last Calib Update</b>	8/26/2024 2:30 PM	<b>Quant Report Version</b>	10.0
<b>Quant Batch Version</b>	10.0		

**EDB %RSE = 26.3**

EDB - 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-25\Data\2024\082324\082333.D	Calibration	1	x	24184	0.0100	2418442.3032	
D:\GC-25\Data\2024\082324\082334.D	Calibration	2	x	41437	0.0200	2071845.0000	
D:\GC-25\Data\2024\082324\082335.D	Calibration	3	x	373150	0.1000	3731498.4358	
D:\GC-25\Data\2024\082324\082336.D	Calibration	4	x	801318	0.2000	4006589.0000	
D:\GC-25\Data\2024\082324\082337.D	Calibration	5	x	2119111	0.5000	4238221.7500	
D:\GC-25\Data\2024\082324\082338.D	Calibration	6	x	3778400	1.0000	3778399.7750	
D:\GC-25\Data\2024\082324\082339.D	Calibration	7	x	7387336	2.0000	3693668.1875	

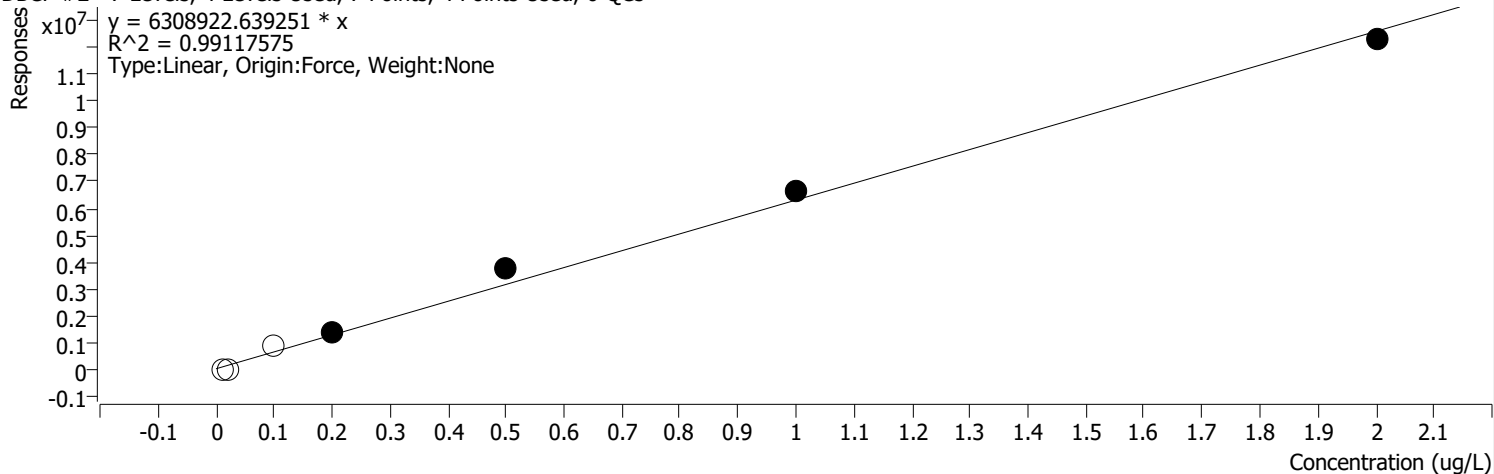


# Calibration Report

Batch Path	D:\GC-25\Data\2024\082324\QuantResults\8011 ICAL.batch.bin	Analyst Name	FA\GC1625
Analysis Time	8/26/2024 2:33 PM	Reporter Name	FA\GC1625
Report Time	8/26/2024 2:35:16 PM	Batch State	Processed
Last Calib Update	8/26/2024 2:30 PM	Quant Report Version	10.0
Quant Batch Version	10.0		

**DBCP #2 %RSE = 16.3**

DBCP #2 - 7 Levels, 4 Levels Used, 7 Points, 4 Points Used, 0 QCs



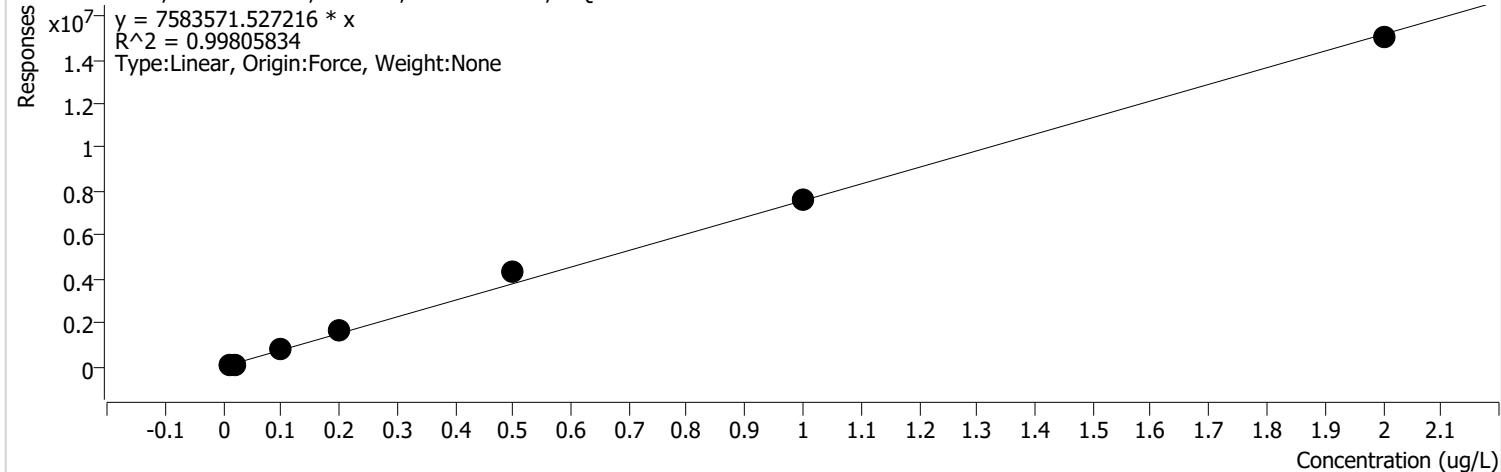
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-25\Data\2024\082324\082333.D	Calibration	1		0	0.0100	0.0000	
D:\GC-25\Data\2024\082324\082334.D	Calibration	2		0	0.0200	0.0000	
D:\GC-25\Data\2024\082324\082335.D	Calibration	3		817341	0.1000	8173413.0718	
D:\GC-25\Data\2024\082324\082336.D	Calibration	4	x	1407404	0.2000	7037018.7500	
D:\GC-25\Data\2024\082324\082337.D	Calibration	5	x	3761693	0.5000	7523386.9465	
D:\GC-25\Data\2024\082324\082338.D	Calibration	6	x	6613021	1.0000	6613020.9250	
D:\GC-25\Data\2024\082324\082339.D	Calibration	7	x	12299426	2.0000	6149713.0875	

# Calibration Report

Batch Path	D:\GC-25\Data\2024\082324\QuantResults\8011 ICAL.batch.bin	Analyst Name	FA\GC1625
Analysis Time	8/26/2024 2:33 PM	Reporter Name	FA\GC1625
Report Time	8/26/2024 2:35:16 PM	Batch State	Processed
Last Calib Update	8/26/2024 2:30 PM	Quant Report Version	10.0
Quant Batch Version	10.0		

**DBCP %RSE = 20.1**

DBCP - 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-25\Data\2024\082324\082333.D	Calibration	1	x	53450	0.0100	5345012.4600	
D:\GC-25\Data\2024\082324\082334.D	Calibration	2	x	110593	0.0200	5529644.5577	
D:\GC-25\Data\2024\082324\082335.D	Calibration	3	x	807044	0.1000	8070436.3963	
D:\GC-25\Data\2024\082324\082336.D	Calibration	4	x	1716826	0.2000	8584129.6687	
D:\GC-25\Data\2024\082324\082337.D	Calibration	5	x	4320925	0.5000	8641850.8066	
D:\GC-25\Data\2024\082324\082338.D	Calibration	6	x	7589882	1.0000	7589882.4190	
D:\GC-25\Data\2024\082324\082339.D	Calibration	7	x	15009780	2.0000	7504889.9624	

## 8011 Calibration

Date: 8/23/24

8011 1000 ppb (CAL): 29941

Analyst: Clare O

8011 1000 ppb (SS): 24702

Hexane: 8218

Spike Conc. (ppb)	Spike (uL)	SS spike (uL)	Final Vol. (mL)	Comments
0.01	0.5	-	50	
0.02	1	-	50	
0.1	5	-	50	
0.2	10	-	50	
0.5	25	-	50	
1	50	-	50	
2	100	-	50	
ICB	-	-	50	
ICV (1.0)	-	50	50	

Signature and Date: Clare O'Connor 8/24 8/23/24  
CO 8/23

Signature: AK

700 Building Calibration Template - 8011 v1.2

1 of 1

Official Approval: 6/20/2023

# Supporting Data

Prep Start Date: 8/26/2024 12:08:27  
 Prep End Date:  
 Technician: Clare OConnor

Prep Factor Units:  
 mL / mL

Prep Batch ID: 44994 Prep Code: PREP-8011-W Method No: SW8011

Sample ID	ClientSampleID	Matrix	Sample Amount (mL)	Final Vol (mL)	Prep Factor	PrepStart	PrepEnd
11 96-25 MB-44994		Water	49.84	50	1.003	8/26/2024	Preliminary
12 LCS-44994		Water	50.22	50	0.996	8/26/2024	Preliminary
13 LCSD-44994		Water	50.13	50	0.997	8/26/2024	Preliminary
14 2408312-001E	GEI-11_082024	Water	50.77	50	0.985	8/26/2024	Preliminary
15 2408312-002E	GEI-12_082024	Water	52.44	50	0.953	8/26/2024	Preliminary
16 2408312-003E	GEI-13_082024	Water	50.8	50	0.984	8/26/2024	Preliminary
17 2408312-004E	Dup_082024	Water	54.91	50	0.911	8/26/2024	Preliminary
18 2407014-003A	MDL-1 8011	Unknown	50	50	1.000	8/26/2024	Preliminary
2407018-019A	LOD - 8011	Unknown	50	50	1.000	8/26/2024	Preliminary
2407018-020A	LOQ - 8011	Unknown	50	50	1.000	8/26/2024	Preliminary

CO 7/24

Ran 8/26

### 8011 Water Prep Bench Sheet

Analyst: <i>Clare O</i>
Date and Time: <i>8/26/24</i>
Batch: <i>44994</i>

Equipment	
Type	ID
Balance:	<i>2</i>
Solvent Dispenser:	<i>2</i>
Other:	

Spikes / Chemicals / Reagents	Omega ID	Amount Used
CCV 8011 Tertiary Spike 1 mg/L	<i>29941</i>	<i>50 µL</i>
LCS 8011 Tertiary Spike 1 mg/L	<i>29941</i>	<i>12.5 µL</i>
Baked Sodium Chloride	<i>5683</i>	<i>7g</i>
Hexanes	<i>8218</i>	<i>2 mL</i>

Notes/Modifications

Final Volume Before Analysis	<i>2 mL</i>
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I acknowledge the spike/chemical/reagent amounts listed above were used	Initial/Date <i>CO 8/26/24</i>
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Dilutions	
Sample ID	Dilution Description

Sign and date below if you contributed to this preparation batch
<i>Clare O'Connor 8/26/24</i>

Prep Start Date: **8/26/2024 12:08:27**  
 Prep End Date: **8/26/2024 1:31:16 P**  
 Technician: **Clare OConnor**

Prep Factor Units:  
 mL / mL

Prep Batch ID: **44994** Prep Code: **PREP-8011-W** Method No: **SW8011**

Sample ID	ClientSampleID	Matrix	Sample Amount (mL)	Final Vol (mL)	Prep Factor	PrepStart	PrepEnd
MB-44994		Water	49.84	50	1.003	8/26/2024	8/26/2024
LCS-44994		Water	50.22	50	0.996	8/26/2024	8/26/2024
LCSD-44994		Water	50.13	50	0.997	8/26/2024	8/26/2024
2408312-001E	GEI-11_082024	Water	50.77	50	0.985	8/26/2024	8/26/2024
2408312-002E	GEI-12_082024	Water	52.44	50	0.953	8/26/2024	8/26/2024
2408312-003E	GEI-13_082024	Water	50.8	50	0.984	8/26/2024	8/26/2024
2408312-004E	Dup_082024	Water	54.91	50	0.911	8/26/2024	8/26/2024
2407014-003A	MDL-1 8011	Unknown	50	50	1.000	8/26/2024	8/26/2024
2407018-019A	LOD - 8011	Unknown	50	50	1.000	8/26/2024	8/26/2024
2407018-020A	LOQ - 8011	Unknown	50	50	1.000	8/26/2024	8/26/2024

# Reporting Checklist



Analyst: Clare O  
 Date: 8/27/24  
 Prep #: 44994  
 Run(s) #: 93915

Workorder(s): 2408312, 07014, 018, CO IDCs  
 Analysis: O-8011-W

Y/N		Reviewed
<input checked="" type="checkbox"/>	Run complete? (i.e., all QC, samples, dilutions present)	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	All QC within limits? <input type="checkbox"/> Exceedances acceptable per QA Manual and/or Auth'd by PM ___?	<input checked="" type="checkbox"/>
	<input type="checkbox"/> CCV out <input type="checkbox"/> LCS out <input type="checkbox"/> MS out <input type="checkbox"/> Blank hits <input type="checkbox"/> IS/surr out <input type="checkbox"/> RPD out <input type="checkbox"/> Hold time <input type="checkbox"/> Other _____	
<input type="checkbox"/>	Any pending dilutions, re-extracts, or reanalysis to be completed in future run?	
<input type="checkbox"/>	Manual entries/narratives reviewed for accuracy? (note below)    Analyst: _____    Reviewer: _____	<input type="checkbox"/>
<input checked="" type="checkbox"/>	Omega checks performed?	<input checked="" type="checkbox"/>
	<input checked="" type="checkbox"/> SampID, Test Code, Type, Prep <input checked="" type="checkbox"/> PMOIST, pH <input checked="" type="checkbox"/> BLKref, SPKref, RPDref, CCVref <input checked="" type="checkbox"/> Attachments	<input checked="" type="checkbox"/>
	<input checked="" type="checkbox"/> Sequence <input checked="" type="checkbox"/> Cgrams <input checked="" type="checkbox"/> Bench Sheets <input type="checkbox"/> Perf Checks <input checked="" type="checkbox"/> Tech Doc	<input checked="" type="checkbox"/>
	<input checked="" type="checkbox"/> Related Info <input checked="" type="checkbox"/> ICAL Ref <input checked="" type="checkbox"/> ICAL Ack/QA'd? <input checked="" type="checkbox"/> Spiking Info/CCV Std <input type="checkbox"/> _____	<input checked="" type="checkbox"/>
	<input checked="" type="checkbox"/> Reporting Checks <input type="checkbox"/> Dilutions data/narr redundancy check <input type="checkbox"/> RLs OK (low wt, high pmoist, dilutions)	<input checked="" type="checkbox"/>

**Notes for Reviewer**

Using CO IDC 4 as opening CCV  
 Accidentally ran LOD level under the MDL sample number (07014-003, line 38 in injlog) but fixed it in Omega

By signing, I attest that I have followed the SOP

Clare O'Connor 8/27/24

MG 8/27/2024

Analyst \_\_\_\_\_ Date \_\_\_\_\_

Reviewer \_\_\_\_\_ Date \_\_\_\_\_



**DATA SET for Review - Deliverable Requirements**

**Gasoline by NWTPH-Gx**

Fremont Analytical Work Order No. 2408312

**GeoEngineers**

Project Name: 701/709 South Jackson

Project Number: 24504-001-04

This data set contains the following:

- Analytical Sequence Summary
- Calibration Information
- Tune Information
- Internal Standards Report

Data Directory: D:\GC-27\DATA\082124\

SampleName	MiscInfo	Vial	Multiplier	Injection Time
R 1) 082101.D	8260B_90to1.M O-VOC-W		1.000	21 Aug 2024 02:52 pm
R 2) 082102.D	8260B_90to1.M O-VOC-W		1.000	21 Aug 2024 03:19 pm
R 3) 082103.D	8260B_90to1.M O-VOC-W		1.000	21 Aug 2024 03:47 pm
R 4) 082104.D	8260B_90to1.M O-VOC-W		1.000	21 Aug 2024 04:14 pm
R 5) 082105.D	8260B_90to1.M O-VOC-W		1.000	21 Aug 2024 04:41 pm
VOC W ICAL 1 6) 082106.D	8260B_90to1.M O-VOC-W	1	1.000	21 Aug 2024 05:10 pm
VOC W ICAL 1 7) 082107.D	8260B_90to1.M O-VOC-W	2	1.000	21 Aug 2024 05:38 pm
VOC W ICAL 1 8) 082108.D	8260B_90to1.M O-VOC-W	3	1.000	21 Aug 2024 06:07 pm
VOC W ICAL 1 9) 082109.D	8260B_90to1.M O-VOC-W	4	1.000	21 Aug 2024 06:36 pm
VOC W ICAL 1 10) 082110.D	8260B_90to1.M O-VOC-W	5	1.000	21 Aug 2024 07:04 pm
VOC W ICAL 1 11) 082111.D	8260B_90to1.M O-VOC-W	6	1.000	21 Aug 2024 07:33 pm
VOC W ICAL 1 12) 082112.D	8260B_90to1.M O-VOC-W	7	1.000	21 Aug 2024 08:01 pm
VOC W ICAL 1 13) 082113.D	8260B_90to1.M O-VOC-W	8	1.000	21 Aug 2024 08:30 pm
VOC W ICAL 1 14) 082114.D	8260B_90to1.M O-VOC-W	9	1.000	21 Aug 2024 08:59 pm
R 15) 082115.D	8260B_90to1.M O-VOC-W		1.000	21 Aug 2024 09:26 pm
R 16) 082116.D	8260B_90to1.M O-VOC-W		1.000	21 Aug 2024 09:53 pm
ICB 17) 082117.D	8260B_90to1.M O-VOC-W	10	1.000	21 Aug 2024 10:22 pm
ICV 18) 082118.D	8260B_90to1.M O-VOC-W	11	1.000	21 Aug 2024 10:50 pm
R 19) 082119.D	8260B_90to1.M O-VOC-W		1.000	21 Aug 2024 11:18 pm
R 20) 082120.D	8260B_90to1.M O-VOC-W		1.000	21 Aug 2024 11:45 pm
GX ICAL 1 21) 082121.D	8260B_90to1.M O-VOC-GX-W	12	1.000	22 Aug 2024 12:14 am

22)	082122.D	8260B_90to1.M					
GX	ICAL 2	O-VOC-GX-W	13	1.000	22 Aug 2024	12:42	am
-----							
23)	082123.D	8260B_90to1.M					
GX	ICAL 3	O-VOC-GX-W	14	1.000	22 Aug 2024	01:11	am
-----							
24)	082124.D	8260B_90to1.M					
GX	ICAL 4	O-VOC-GX-W	15	1.000	22 Aug 2024	01:39	am
-----							
25)	082125.D	8260B_90to1.M					
GX	ICAL 5	O-VOC-GX-W	16	1.000	22 Aug 2024	02:08	am
-----							
26)	082126.D	8260B_90to1.M					
GX	ICAL 6	O-VOC-GX-W	17	1.000	22 Aug 2024	02:37	am
-----							
27)	082127.D	8260B_90to1.M					
GX	ICAL 7	O-VOC-GX-W	18	1.000	22 Aug 2024	03:05	am
-----							
28)	082128.D	8260B_90to1.M					
R		O-VOC-GX-W		1.000	22 Aug 2024	03:33	am
-----							
29)	082129.D	8260B_90to1.M					
R		O-VOC-GX-W		1.000	22 Aug 2024	04:00	am
-----							
30)	082130.D	8260B_90to1.M					
ICB		O-VOC-GX-W	19	1.000	22 Aug 2024	04:28	am
-----							
31)	082131.D	8260B_90to1.M					
ICV		O-VOC-GX-W	20	1.000	22 Aug 2024	11:16	am
-----							
32)	082132.D	8260B_90to1.M					
ICV	REAL	O-VOC-GX-W	20	1.000	22 Aug 2024	11:44	am
-----							
33)	082133.D	8260B_90to1.M					
R		O-VOC-GX-W		1.000	22 Aug 2024	12:11	pm
-----							
34)	082201.D	8260B_90to1.M					
R		O-VOC-W		1.000	22 Aug 2024	01:16	pm
-----							
35)	082202.D	8260B_90to1.M					
VOC	W CCV	O-VOC-GX-W	21	1.000	22 Aug 2024	01:44	pm
-----							

Data Directory: D:\GC-27\DATA\082324\

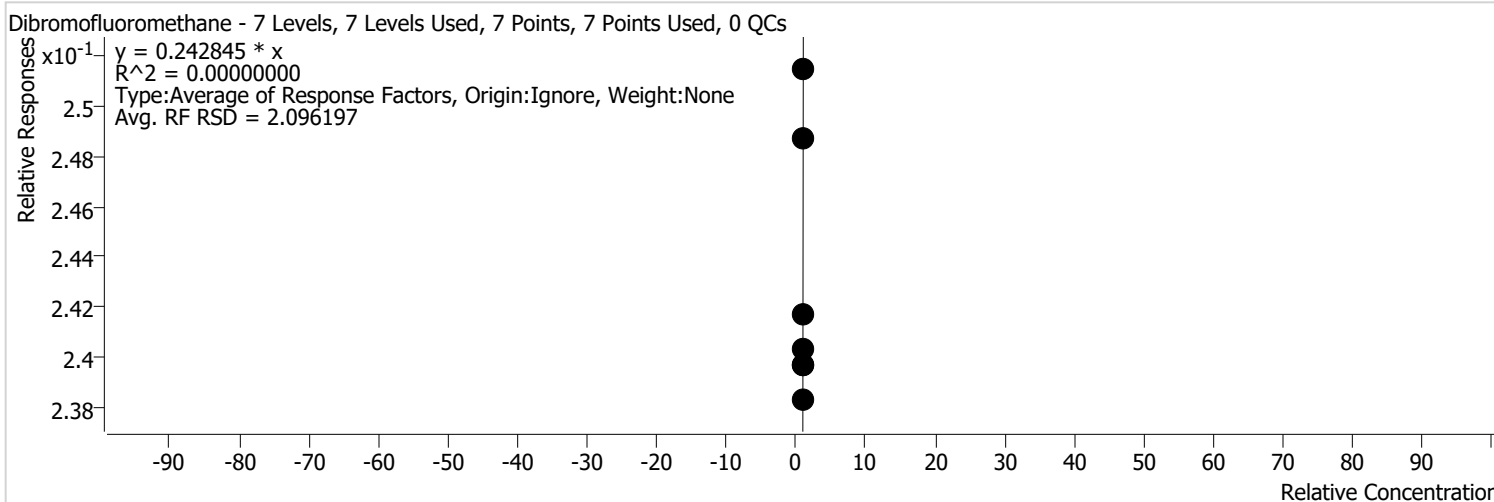
SampleName	MiscInfo	Vial	Multiplier	Injection Time
R 1) 082301.D	8260B_90tol.M O-VOC-W		1.000	23 Aug 2024 08:21 am
R 2) 082302.D	8260B_90tol.M O-VOC-W		1.000	23 Aug 2024 08:48 am
VOC W CCV 3) 082303.D	8260B_90tol.M O-VOC-W	1	1.000	23 Aug 2024 09:17 am
VOC S CCV 4) 082304.D	8260B_90tol.M O-VOC-W	2	1.000	23 Aug 2024 09:46 am
5) 082305.D	8260B_90tol.M O-VOC-W	3	1.000	23 Aug 2024 10:14 am
R 6) 082306.D	8260B_90tol.M O-VOC-W		1.000	23 Aug 2024 10:41 am
7) 082307.D	8260B_90tol.M O-VOC-W	4	1.000	23 Aug 2024 11:10 am
2408318-001A 10x 8) 082308.D	8260B_90tol.M O-VOC-W	5	1.000	23 Aug 2024 11:39 am
2408318-001ADUP 10X 9) 082309.D	8260B_90tol.M O-VOC-W	6	1.000	23 Aug 2024 12:07 pm
2408318-001AMS 10X 10) 082310.D	8260B_90tol.M O-VOC-W	7	1.000	23 Aug 2024 12:36 pm
R 11) 082311.D	8260B_90tol.M O-VOC-W		1.000	23 Aug 2024 01:03 pm
2408312-001A 12) 082312.D	8260B_90tol.M O-VOC-W	8	1.000	23 Aug 2024 01:32 pm
2408312-002A 13) 082313.D	8260B_90tol.M O-VOC-W	9	1.000	23 Aug 2024 02:00 pm
2408312-003A 14) 082314.D	8260B_90tol.M O-VOC-W	10	1.000	23 Aug 2024 02:29 pm
2408312-004A 15) 082315.D	8260B_90tol.M O-VOC-W	11	1.000	23 Aug 2024 02:58 pm
R 16) 082316.D	8260B_90tol.M O-VOC-W		1.000	23 Aug 2024 03:25 pm
2408318-001A 50X 17) 082317.D	8260B_90tol.M O-VOC-W	12	1.000	23 Aug 2024 03:53 pm
R 18) 082318.D	8260B_90tol.M O-VOC-W		1.000	23 Aug 2024 04:21 pm
19) 082319.D	8260B_90tol.M O-VOC-W	13	1.000	23 Aug 2024 04:49 pm
R 20) 082320.D	8260B_90tol.M O-VOC-W		1.000	23 Aug 2024 05:16 pm

# Calibration

# Calibration Report

Batch Path	D:\GC-27\DATA\082124\QuantResults\GX CAL.batch.bin		
Analysis Time	8/26/2024 2:26 PM	Analyst Name	FA\GC27
Report Time	8/26/2024 2:27:14 PM	Reporter Name	FA\GC27
Last Calib Update	8/23/2024 3:12 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

**Dibromofluoromethane %RSE =**

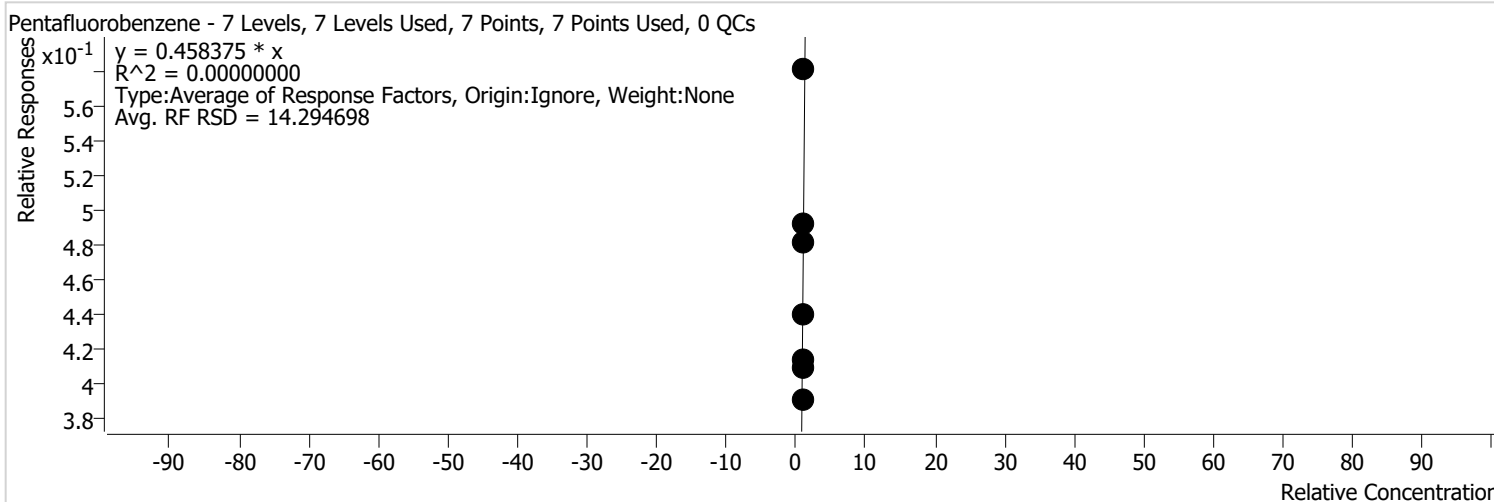


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-27\DATA\082124\082127.D	Calibration	7	x	3418289	25.0000	0.2514	
D:\GC-27\DATA\082124\082126.D	Calibration	6	x	3170629	25.0000	0.2417	
D:\GC-27\DATA\082124\082125.D	Calibration	5	x	3014429	25.0000	0.2383	
D:\GC-27\DATA\082124\082124.D	Calibration	4	x	2941649	25.0000	0.2397	
D:\GC-27\DATA\082124\082123.D	Calibration	3	x	3026595	25.0000	0.2397	
D:\GC-27\DATA\082124\082122.D	Calibration	2	x	3143310	25.0000	0.2487	
D:\GC-27\DATA\082124\082121.D	Calibration	1	x	3045707	25.0000	0.2404	

# Calibration Report

Batch Path	D:\GC-27\DATA\082124\QuantResults\GX CAL.batch.bin		
Analysis Time	8/26/2024 2:26 PM	Analyst Name	FA\GC27
Report Time	8/26/2024 2:27:16 PM	Reporter Name	FA\GC27
Last Calib Update	8/23/2024 3:12 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

**Pentafluorobenzene %RSE =**

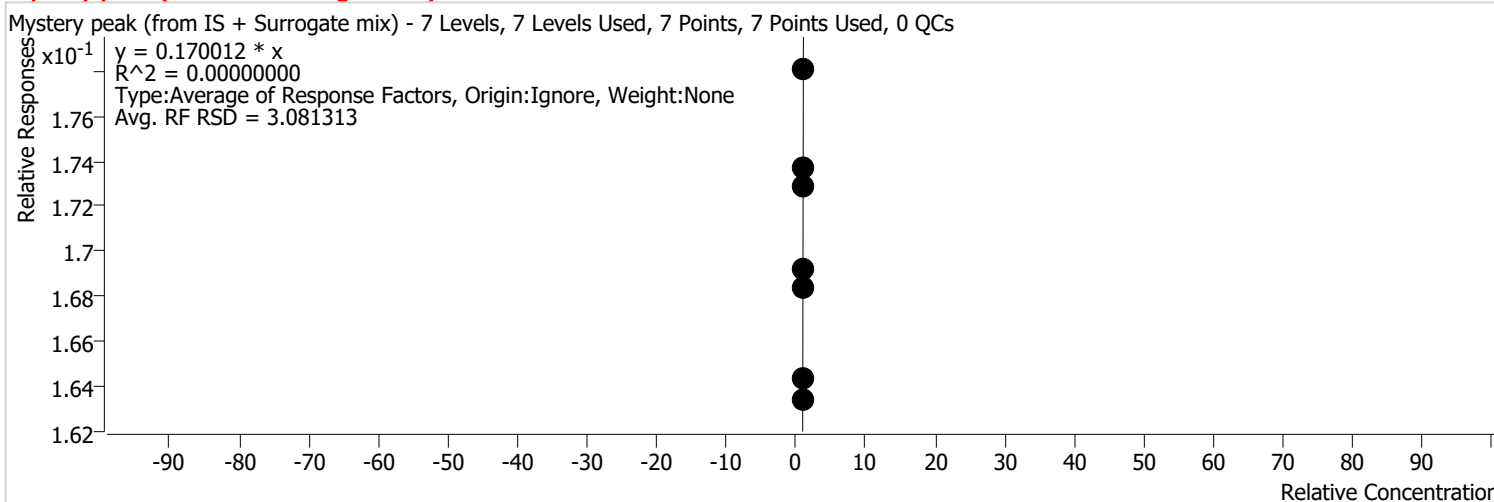


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-27\DATA\082124\082127.D	Calibration	7	x	7894026	25.0000	0.5807	
D:\GC-27\DATA\082124\082126.D	Calibration	6	x	6447223	25.0000	0.4915	
D:\GC-27\DATA\082124\082125.D	Calibration	5	x	6088038	25.0000	0.4814	
D:\GC-27\DATA\082124\082124.D	Calibration	4	x	5402342	25.0000	0.4402	
D:\GC-27\DATA\082124\082123.D	Calibration	3	x	5162340	25.0000	0.4088	
D:\GC-27\DATA\082124\082122.D	Calibration	2	x	5241391	25.0000	0.4147	
D:\GC-27\DATA\082124\082121.D	Calibration	1	x	4959657	25.0000	0.3914	

# Calibration Report

Batch Path	D:\GC-27\DATA\082124\QuantResults\GX CAL.batch.bin		
Analysis Time	8/26/2024 2:26 PM	Analyst Name	FA\GC27
Report Time	8/26/2024 2:27:16 PM	Reporter Name	FA\GC27
Last Calib Update	8/23/2024 3:12 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

**Mystery peak (from IS + Surrogate mix) %RSE =**



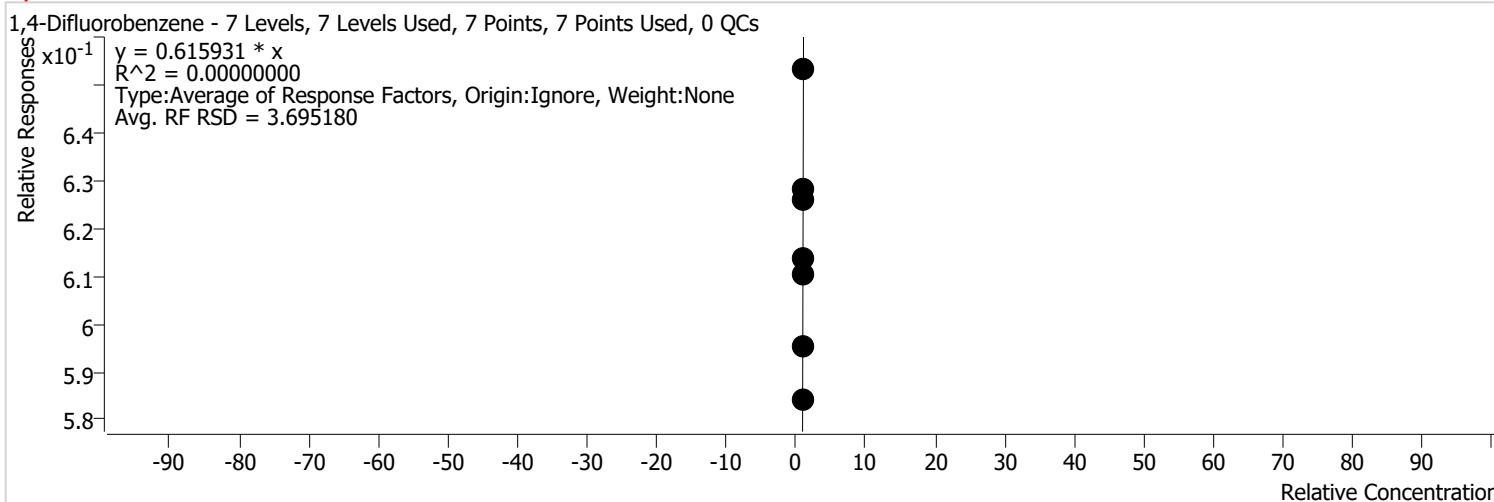
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-27\DATA\082124\082127.D	Calibration	7	x	2361548	25.0000	0.1737	
D:\GC-27\DATA\082124\082126.D	Calibration	6	x	2209196	25.0000	0.1684	
D:\GC-27\DATA\082124\082125.D	Calibration	5	x	2067187	25.0000	0.1634	
D:\GC-27\DATA\082124\082124.D	Calibration	4	x	2017136	25.0000	0.1644	
D:\GC-27\DATA\082124\082123.D	Calibration	3	x	2183410	25.0000	0.1729	
D:\GC-27\DATA\082124\082122.D	Calibration	2	x	2250529	25.0000	0.1780	
D:\GC-27\DATA\082124\082121.D	Calibration	1	x	2143871	25.0000	0.1692	



# Calibration Report

Batch Path	D:\GC-27\DATA\082124\QuantResults\GX CAL.batch.bin		
Analysis Time	8/26/2024 2:26 PM	Analyst Name	FA\GC27
Report Time	8/26/2024 2:27:16 PM	Reporter Name	FA\GC27
Last Calib Update	8/23/2024 3:12 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

**1,4-Difluorobenzene %RSE =**



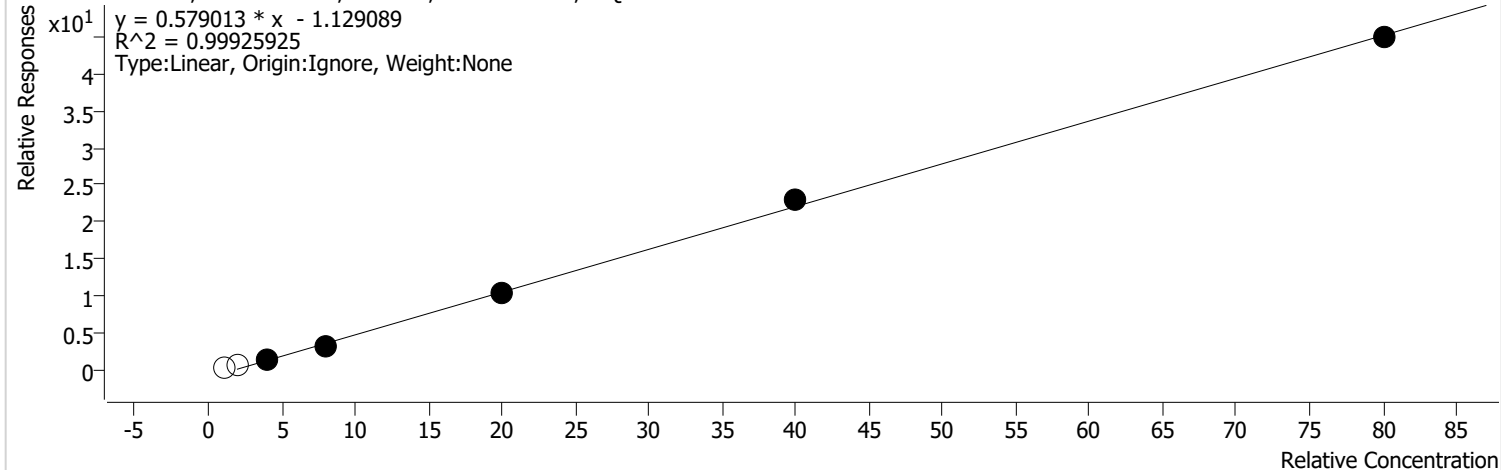
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-27\DATA\082124\082127.D	Calibration	7	x	8881833	25.0000	0.6533	
D:\GC-27\DATA\082124\082126.D	Calibration	6	x	8241195	25.0000	0.6282	
D:\GC-27\DATA\082124\082125.D	Calibration	5	x	7917210	25.0000	0.6260	
D:\GC-27\DATA\082124\082124.D	Calibration	4	x	7530200	25.0000	0.6136	
D:\GC-27\DATA\082124\082123.D	Calibration	3	x	7516872	25.0000	0.5953	
D:\GC-27\DATA\082124\082122.D	Calibration	2	x	7719634	25.0000	0.6107	
D:\GC-27\DATA\082124\082121.D	Calibration	1	x	7404286	25.0000	0.5844	

# Calibration Report

Batch Path	D:\GC-27\DATA\082124\QuantResults\GX CAL.batch.bin		
Analysis Time	8/26/2024 2:26 PM	Analyst Name	FA\GC27
Report Time	8/26/2024 2:27:16 PM	Reporter Name	FA\GC27
Last Calib Update	8/23/2024 3:12 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

**Gasoline %RSE = 5.5**

Gasoline - 7 Levels, 5 Levels Used, 7 Points, 5 Points Used, 0 QCs

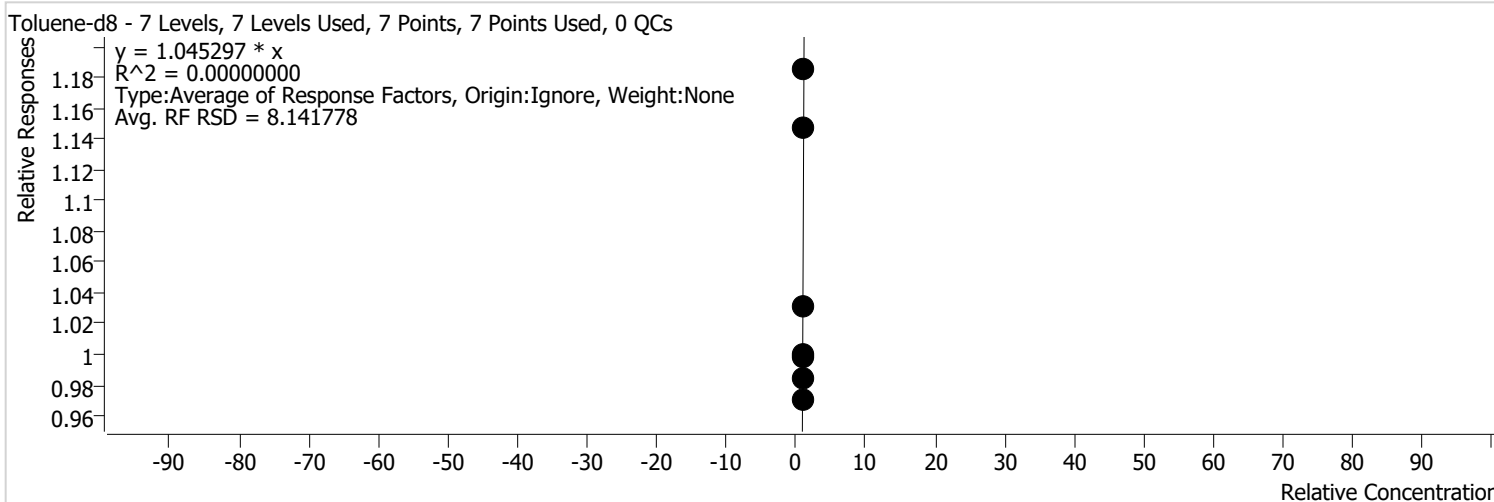


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-27\DATA\082124\082121.D	Calibration	1		4318903	25.0000	0.3409	
D:\GC-27\DATA\082124\082122.D	Calibration	2		8994982	50.0000	0.3558	
D:\GC-27\DATA\082124\082123.D	Calibration	3	x	15963806	100.0000	0.3160	
D:\GC-27\DATA\082124\082124.D	Calibration	4	x	38403993	200.0000	0.3912	
D:\GC-27\DATA\082124\082125.D	Calibration	5	x	129714706	500.0000	0.5128	
D:\GC-27\DATA\082124\082126.D	Calibration	6	x	299747742	1000.0000	0.5712	
D:\GC-27\DATA\082124\082127.D	Calibration	7	x	609928423	2000.0000	0.5608	

# Calibration Report

Batch Path	D:\GC-27\DATA\082124\QuantResults\GX CAL.batch.bin	Analyst Name	FA\GC27
Analysis Time	8/26/2024 2:26 PM	Reporter Name	FA\GC27
Report Time	8/26/2024 2:27:16 PM	Batch State	Processed
Last Calib Update	8/23/2024 3:12 PM	Quant Report Version	10.0
Quant Batch Version	10.0		

**Toluene-d8 %RSE =**

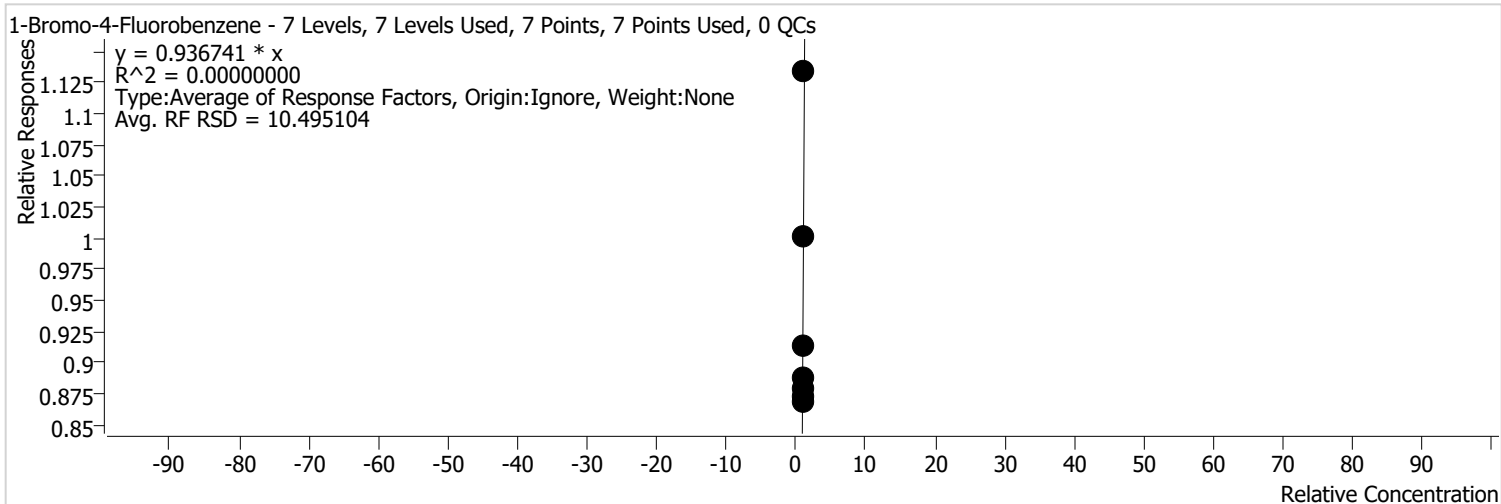


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-27\DATA\082124\082127.D	Calibration	7	x	16106431	25.0000	1.1848	
D:\GC-27\DATA\082124\082126.D	Calibration	6	x	15048847	25.0000	1.1472	
D:\GC-27\DATA\082124\082125.D	Calibration	5	x	13035631	25.0000	1.0307	
D:\GC-27\DATA\082124\082124.D	Calibration	4	x	12273941	25.0000	1.0002	
D:\GC-27\DATA\082124\082123.D	Calibration	3	x	12426048	25.0000	0.9840	
D:\GC-27\DATA\082124\082122.D	Calibration	2	x	12628746	25.0000	0.9991	
D:\GC-27\DATA\082124\082121.D	Calibration	1	x	12305418	25.0000	0.9712	

# Calibration Report

Batch Path	D:\GC-27\DATA\082124\QuantResults\GX CAL.batch.bin		
Analysis Time	8/26/2024 2:26 PM	Analyst Name	FA\GC27
Report Time	8/26/2024 2:27:16 PM	Reporter Name	FA\GC27
Last Calib Update	8/23/2024 3:12 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

**1-Bromo-4-Fluorobenzene %RSE =**

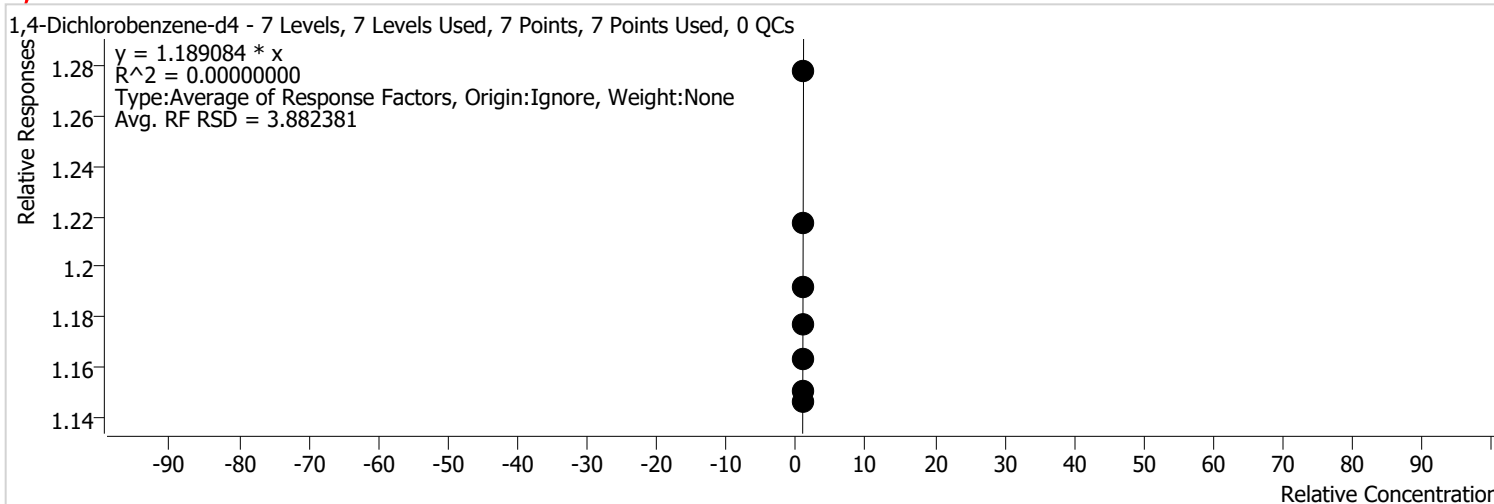


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-27\DATA\082124\082127.D	Calibration	7	x	15413290	25.0000	1.1338	
D:\GC-27\DATA\082124\082126.D	Calibration	6	x	13135205	25.0000	1.0013	
D:\GC-27\DATA\082124\082125.D	Calibration	5	x	11564900	25.0000	0.9144	
D:\GC-27\DATA\082124\082124.D	Calibration	4	x	10891792	25.0000	0.8876	
D:\GC-27\DATA\082124\082123.D	Calibration	3	x	10975132	25.0000	0.8691	
D:\GC-27\DATA\082124\082122.D	Calibration	2	x	11105018	25.0000	0.8785	
D:\GC-27\DATA\082124\082121.D	Calibration	1	x	11055167	25.0000	0.8725	

# Calibration Report

<b>Batch Path</b>	D:\GC-27\DATA\082124\QuantResults\GX CAL.batch.bin	<b>Analyst Name</b>	FA\GC27
<b>Analysis Time</b>	8/26/2024 2:26 PM	<b>Reporter Name</b>	FA\GC27
<b>Report Time</b>	8/26/2024 2:27:16 PM	<b>Batch State</b>	Processed
<b>Last Calib Update</b>	8/23/2024 3:12 PM	<b>Quant Report Version</b>	10.0
<b>Quant Batch Version</b>	10.0		

**1,4-Dichlorobenzene-d4 %RSE =**



Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-27\DATA\082124\082127.D	Calibration	7	x	17370753	25.0000	1.2778	
D:\GC-27\DATA\082124\082126.D	Calibration	6	x	15968264	25.0000	1.2172	
D:\GC-27\DATA\082124\082125.D	Calibration	5	x	15067372	25.0000	1.1913	
D:\GC-27\DATA\082124\082124.D	Calibration	4	x	14443732	25.0000	1.1770	
D:\GC-27\DATA\082124\082123.D	Calibration	3	x	14475227	25.0000	1.1463	
D:\GC-27\DATA\082124\082122.D	Calibration	2	x	14706830	25.0000	1.1635	
D:\GC-27\DATA\082124\082121.D	Calibration	1	x	14577069	25.0000	1.1504	

# VOC Water Calibration



Date: 9/21/24

Analyst: KS

Instrument: 6607

Cal	ICV
8260 Standard: <u>30212</u>	8260 Standard: <u>30255</u>

IS/Surrogate 30021

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: *Kelday* 9/21/24

Signature: AK

V-VOC Water Calibration Bench Sheet v1.1

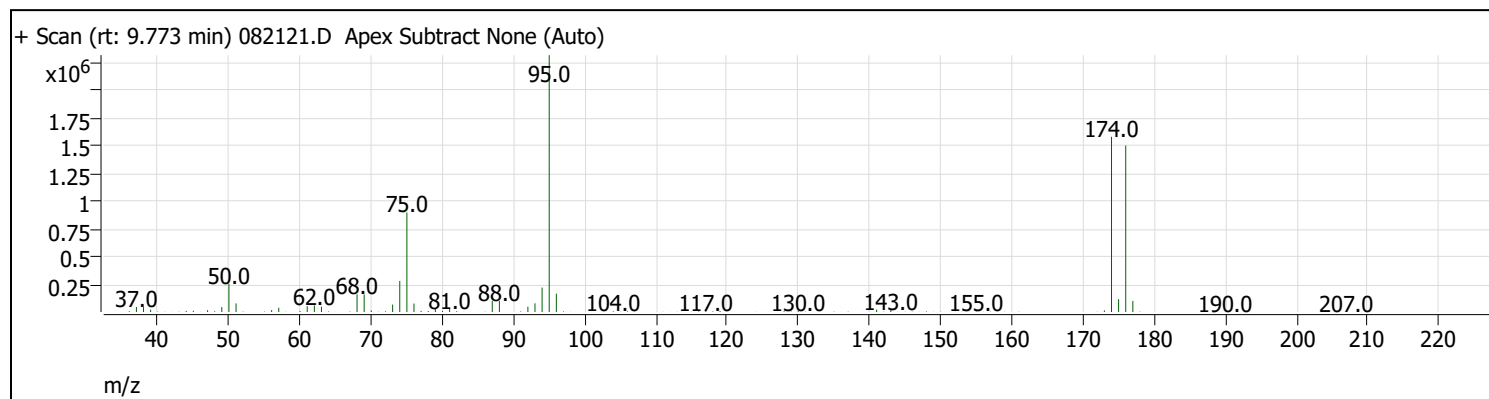
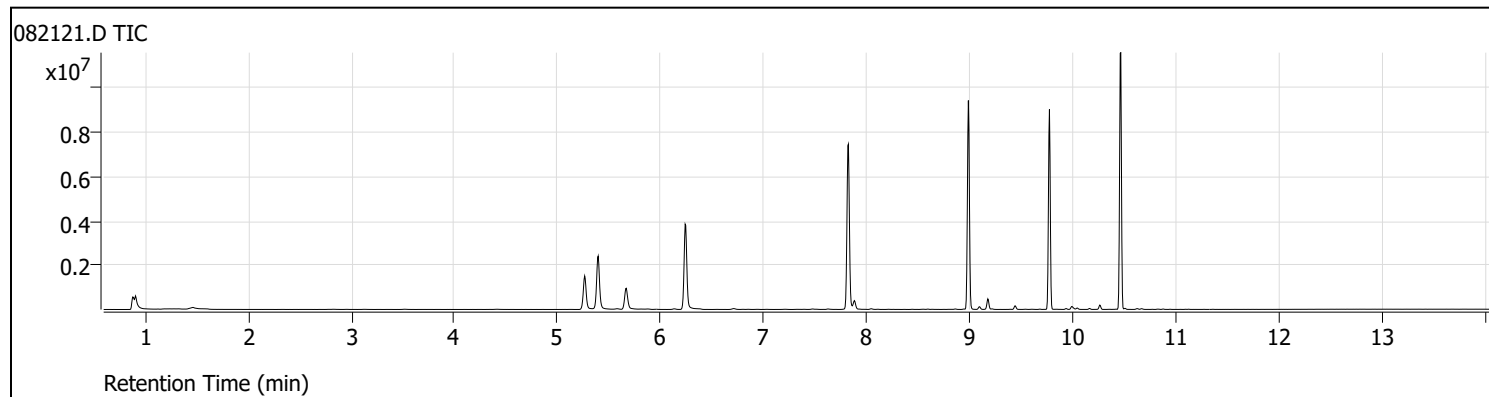
1 of 1

Official Approval: 4/12/2023

# Tunes

# Tune Evaluation Report

Data Path: D:\GC-27\DATA\082124\082121.D  
 Acq on: 8/22/2024 12:14:05 AM  
 Operator: MDS/KJ  
 Sample: GX ICAL 1  
 Inst Name: GC-27  
 ALS Vial: 12  
 Method: D:\MassHunter\Methods\Quant\BFB2021.m

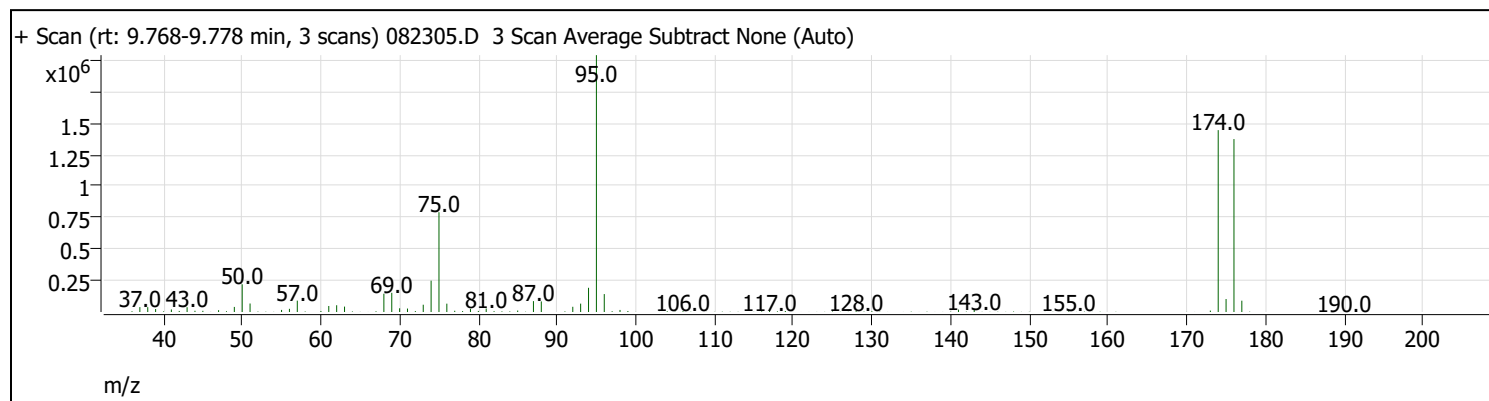
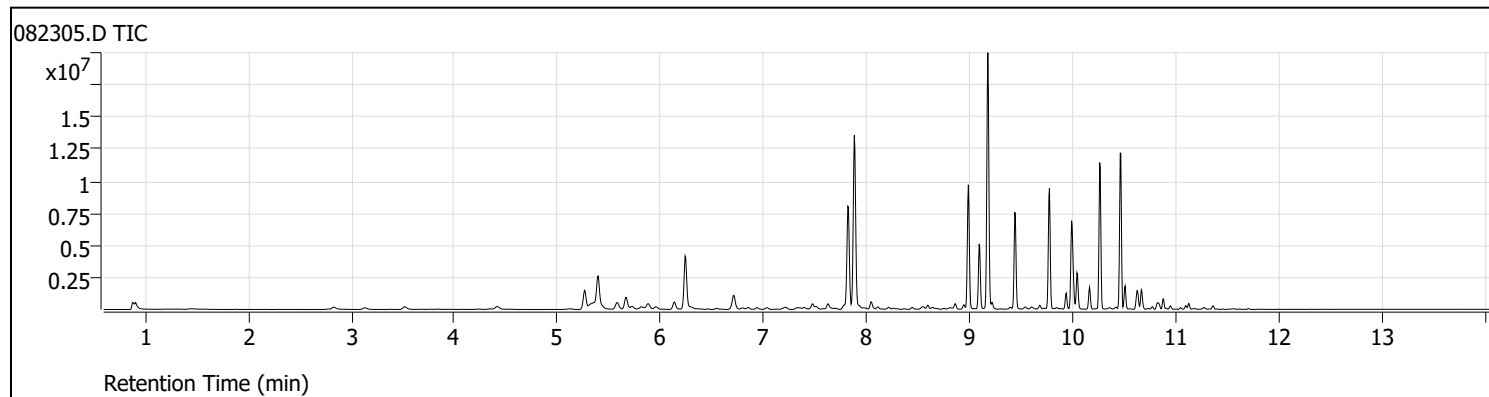


Target Mass	Rel. To Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Pass/Fail
95	174	50	200	146.6	2312192	Pass
96	95	5	9	7.1	165314	Pass
173	174	0	2	0.9	13841	Pass
174	95	50	200	68.2	1576904	Pass
175	174	5	9	7.3	115537	Pass
176	174	95	105	95.0	1498436	Pass
177	176	5	10	6.6	99492	Pass



# Tune Evaluation Report

Data Path: D:\GC-27\DATA\082324\082305.D  
 Acq on: 8/23/2024 10:14:45 AM  
 Operator: MDS/KJ  
 Sample: GX CCV  
 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	141.2	2041638	Pass
96	95	5	9	7.0	142354	Pass
173	174	0	2	0.8	11061	Pass
174	95	50	200	70.8	1445692	Pass
175	174	5	9	7.1	102955	Pass
176	174	95	105	95.1	1374482	Pass
177	176	5	10	6.5	89833	Pass

# Internal Standards

INTERNAL STANDARD AREA AND RT SUMMARY

RunID: GC-27 240827A CCV Name: GX 93890  
 Run No: 93932 CCV SeqNo: 1961831  
 Lab File ID (Standard): 082125.D Date Analyzed: 8/22/2024  
 Instrument ID: GC-27 Time Analyzed: 2:08  
 GC Column: ID (mm): Length (M):

	IS1 (CBZ) AREA #	RT #	IS2 (14DCBZ) AREA #	RT #				
12 HOUR STD	12647326	8.987	15067372	10.465				
UPPER LIMIT	25294652	9.487	30134744	10.965				
LOWER LIMIT	6323663	8.487	7533686	9.965				
SAMPLE NO.								
01 GX-CCV-A	1.30072e+007	8.987	1.53e+007	10.465				
02 GX-CCV-B	1.17886e+007	8.987	1.39621e+007	10.46				

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 240827A CCV Name: GX-CCV-A  
 Run No: 93932 CCV SeqNo: 1961832  
 Lab File ID (Standard): 082305.D Date Analyzed: 8/23/2024  
 Instrument ID: GC-27 Time Analyzed: 10:14  
 GC Column: ID (mm): Length (M):

	IS1 (CBZ) AREA #	RT #	IS2 (14DCBZ) AREA #	RT #				
12 HOUR STD	13007204	8.987	15299982	10.465				
UPPER LIMIT	26014408	9.487	30599964	10.965				
LOWER LIMIT	6503602	8.487	7649991	9.965				
SAMPLE NO.								
01 LCS-44956	1.30072e+007	8.987	1.53e+007	10.465				
02 MB-44956	1.23714e+007	8.987	1.36162e+007	10.46				
03 2408318-001A	1.21625e+007	8.987	1.3742e+007	10.46				
04 2408318-001ADUP	1.20187e+007	8.987	1.36803e+007	10.46				
05 2408312-001A	1.17987e+007	8.987	1.31734e+007	10.465				
06 2408312-002A	1.17311e+007	8.987	1.29793e+007	10.465				
07 2408312-003A	1.19779e+007	8.987	1.31376e+007	10.46				
08 2408312-004A	1.15963e+007	8.987	1.28571e+007	10.46				

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.

# Supporting Data

### 5030B Prep Bench Sheet

**Analyst:** Fiona Gonzalez  
**Date and Time:** 8/22/24  
**Batch:** 44956

Spikes / Chemicals / Reagents	Omega ID	Amount Used	Final Volume
VOC Standard 20 µg/mL (LCS/LCSD)	80741	50 µL	
GX Standard 2,500 µg/mL (LCS/LCSD)	20957	10 µL	
VOC Standard 20 µg/mL (MS/MSD)	80741	43 µL	
GX Standard 2,500 µg/mL (MS/MSD)	20957	8.6 µL	

**Notes/Modificaitons**

Samples verified pH < 2	Initial/Date

I acknowledge the spike/chemical/reagent amounts listed above were used	Initial/Date
	Fiona 8/22/24

Equipment
Pipette:
Balance:
Other:

Dilutions	
Sample ID	Dilution Description

**Sign and date below if you contributed to the preparation of this batch**

Fiona Gonzalez 8/22/24

Prep Start Date: **8/22/2024 12:38:22**  
 Prep End Date: **8/22/2024 5:00:15 P**  
 Technician: **Fiona Gonzalez**

Prep Factor Units:  
 mL / mL

Prep Batch ID: **44956** Prep Code: **PREP-5030** Method No: **SW5030**

Sample ID	ClientSampleID	Matrix	Sample Amount (mL)	Final Vol (mL)	Prep Factor	PrepStart	PrepEnd
MB-44956		Water	40	40	1.000	8/22/2024	8/22/2024
LCS-44956		Water	40	40	1.000	8/22/2024	8/22/2024
2408318-001A	F-1410-82024	Water	40	40	1.000	8/22/2024	8/22/2024
2408312-002A	GEI-12_082024	Water	40	40	1.000	8/22/2024	8/22/2024
2408312-003A	GEI-13_082024	Water	40	40	1.000	8/22/2024	8/22/2024
2408312-004A	Dup_082024	Water	40	40	1.000	8/22/2024	8/22/2024
2408312-005A	Trip Blank	Water	40	40	1.000	8/22/2024	8/22/2024
2408318-001ADUP		Water	40	40	1.000	8/22/2024	8/22/2024
2408318-001AMS		Water	40	40	1.000	8/22/2024	8/22/2024
2408312-001A	GEI-11_082024	Water	40	40	1.000	8/22/2024	8/22/2024

# Reporting Checklist



Analyst: Fiona Gonzalez

Workorder(s): 2408312

Date: 08/27/24

Prep #: 44956

Run(s) #: 93932

Analysis: O-VOC-GX-W

Y/N Reviewed

**Run complete? (i.e., all QC, samples, dilutions present)**

**All QC within limits?**  Exceedances acceptable per QA Manual and/or Auth'd by PM \_\_\_?

CCV out    LCS out    MS out    Blank hits    IS/surr out    RPD out  
Hold time    Other \_\_\_\_\_

PQL elevated to 100 ug/L due to observed baseline rise. False positives possible near prior PQL of 50 ug/L

Any pending dilutions, re-extracts, or reanalysis to be completed in future run?

**Manual entries/narratives reviewed for accuracy? (note below)**    Analyst: FG 8/27/24 Reviewer:

**Omega checks performed?**

SampID, Test Code, Type, Prep   
 PMOIST, pH   
 BLKref, SPKref, RPDref, CCVref   
 Attachments

Sequence    Cgrams    Bench Sheets    Perf Checks    Tech Doc

Related Info

ICAL Ref    ICAL Ack/QA'd?    Spiking Info/CCV Std     \_\_\_\_\_

Reporting Checks

Dilutions data/narr redundancy check    RLs OK (low wt, high pmoist, dilutions)

**Notes for Reviewer**

By signing, I attest that I have followed the SOP

Fiona Gonzalez 8/27/2024

SNK 08/27/24

Analyst Date

Reviewer Date



**DATA SET for Review - Deliverable Requirements**

**PAHs by EPA Method 8270E SIM**

Fremont Analytical Work Order No. 2408312

**GeoEngineers**

Project Name: 701/709 South Jackson

Project Number: 24504-001-04

This data set contains the following:

- Analytical Sequence Summary
- Calibration Information
- Tune Information
- Internal Standards Report

Data Directory: Z:\GC-14\Data\2024\072524\

SampleName	MiscInfo	Vial	Multiplier	Injection Time
1) 072501.D CO	8270E_SIM_625.M	3	1.000	25 Jul 2024 11:20 am
2) 072502.D tune	8270E_SCAN_625.M	1	1.000	25 Jul 2024 11:50 am
3) 072503.D PAH 10	8270E_SIM_625.M	32	1.000	25 Jul 2024 12:37 pm
4) 072504.D PAH 20	8270E_SIM_625.M	33	1.000	25 Jul 2024 01:07 pm
5) 072505.D PAH 40	8270E_SIM_625.M	34	1.000	25 Jul 2024 01:36 pm
6) 072506.D PAH 100	8270E_SIM_625.M	35	1.000	25 Jul 2024 02:06 pm
7) 072507.D PAH 200	8270E_SIM_625.M	36	1.000	25 Jul 2024 02:35 pm
8) 072508.D PAH 500	8270E_SIM_625.M	37	1.000	25 Jul 2024 03:05 pm
9) 072509.D PAH 750	8270E_SIM_625.M	38	1.000	25 Jul 2024 03:35 pm
10) 072510.D PAH 1000	8270E_SIM_625.M	39	1.000	25 Jul 2024 04:04 pm
11) 072511.D PAH 2000	8270E_SIM_625.M	40	1.000	25 Jul 2024 04:34 pm
12) 072512.D PAH 5000	8270E_SIM_625.M	41	1.000	25 Jul 2024 05:03 pm
13) 072513.D PAH ICB	8270E_SIM_625.M	42	1.000	25 Jul 2024 05:33 pm
14) 072514.D PAH ICV	8270E_SIM_625.M	43	1.000	25 Jul 2024 06:03 pm
15) 072515.D CO	8270E_SIM_625.M	3	1.000	25 Jul 2024 06:33 pm
16) 072516.D tune	8270E_SCAN_625.M	1	1.000	25 Jul 2024 07:03 pm
17) 072517.D CCV	8270E_SIM_625.M	39	1.000	25 Jul 2024 07:33 pm
18) 072518.D MB-44635	8270E_SIM_625.M	51	1.000	25 Jul 2024 08:03 pm
19) 072519.D LCS-44635	8270E_SIM_625.M	52	1.000	25 Jul 2024 08:33 pm
20) 072520.D 2407389-001A	8270E_SIM_625.M	53	1.000	25 Jul 2024 09:03 pm
21) 072521.D 2407389-002A	8270E_SIM_625.M	54	1.000	25 Jul 2024 09:33 pm

22) 072522.D	8270E_SIM_625.M	55	1.000	25 Jul 2024	10:03 pm
2407389-003A					
23) 072523.D	8270E_SIM_625.M	56	1.000	25 Jul 2024	10:32 pm
2407389-004A					
24) 072524.D	8270E_SIM_625.M	57	1.000	25 Jul 2024	11:02 pm
2407389-005A					
25) 072525.D	8270E_SIM_625.M	58	1.000	25 Jul 2024	11:32 pm
2407389-005AMS					
26) 072526.D	8270E_SIM_625.M	59	1.000	26 Jul 2024	12:02 am
2407389-005AMSD					
27) 072527.D	8270E_SIM_625.M	60	1.000	26 Jul 2024	12:31 am
2407389-006A					
28) 072528.D	8270E_SIM_625.M	61	1.000	26 Jul 2024	01:01 am
2407399-001A					
29) 072529.D	8270E_SIM_625.M	39	1.000	26 Jul 2024	01:31 am
CCV					

Data Directory: Z:\GC-14\Data\2024\082124\

SampleName	MiscInfo	Vial	Multiplier	Injection Time
1) 082046.D 2408291-001AMS	8270E_SIM_625.M	146	1.000	21 Aug 2024 09:27 am
2) 082047.D 2408291-001AMSD	8270E_SIM_625.M	147	1.000	21 Aug 2024 09:57 am
3) 082048.D QCS	8270E_SIM_625.M	2	1.000	21 Aug 2024 10:27 am
4) 82101.D CO	8270E_SIM_625.M	3	1.000	21 Aug 2024 11:53 am
5) 82102.D tune	8270E_SCAN_625.M	1	1.000	21 Aug 2024 12:23 pm
6) 82103.D CCV	8270E_SIM_625.M	2	1.000	21 Aug 2024 12:52 pm
7) 82104.D MB-44929	8270E_SIM_625.M	28	1.000	21 Aug 2024 01:22 pm
8) 82105.D LCS-44929	8270E_SIM_625.M	29	1.000	21 Aug 2024 01:51 pm
9) 82106.D LCSD-44929	8270E_SIM_625.M	30	1.000	21 Aug 2024 02:21 pm
10) 82107.D 2408305-001C	8270E_SIM_625.M	108	1.000	21 Aug 2024 02:51 pm
11) 82108.D 2408305-002C	8270E_SIM_625.M	109	1.000	21 Aug 2024 03:20 pm
12) 82109.D 2408306-001C	8270E_SIM_625.M	110	1.000	21 Aug 2024 03:50 pm
13) 82110.D CCV	8270E_SIM_625.M	2	1.000	21 Aug 2024 04:20 pm
14) 82111.D MB-44929	8270E_SIM_625.M	28	1.000	21 Aug 2024 04:49 pm
15) 82112.D LCS-44929	8270E_SIM_625.M	29	1.000	21 Aug 2024 05:19 pm
16) 82113.D LCSD-44929	8270E_SIM_625.M	30	1.000	21 Aug 2024 05:48 pm
17) 82114.D MB-44947	8270E_SIM_625.M	41	1.000	21 Aug 2024 06:18 pm
18) 82115.D LCS-44947	8270E_SIM_625.M	42	1.000	21 Aug 2024 06:48 pm
19) 82116.D 2408309-001A	8270E_SIM_625.M	43	1.000	21 Aug 2024 07:17 pm
20) 82117.D 2408309-001AMS	8270E_SIM_625.M	44	1.000	21 Aug 2024 07:47 pm
21) 82118.D 2408309-001AMSD	8270E_SIM_625.M	45	1.000	21 Aug 2024 08:17 pm

22)	82119.D	8270E_SIM_625.M	46	1.000	21 Aug 2024	08:46 pm
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23)	82120.D	8270E_SIM_625.M	3	1.000	21 Aug 2024	09:16 pm
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24)	82121.D	8270E_SIM_625.M	2	1.000	21 Aug 2024	09:46 pm
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25)	82201.D	8270E_SIM_625.M	3	1.000	22 Aug 2024	09:08 am
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26)	82202.D	8270E_SCAN_625.M	1	1.000	22 Aug 2024	09:38 am
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27)	82203.D	8270E_SIM_625.M	2	1.000	22 Aug 2024	10:07 am
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28)	82204.D	8270E_SIM_625.M	4	1.000	22 Aug 2024	10:37 am
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29)	82205.D	8270E_SIM_625.M	46	1.000	22 Aug 2024	11:24 am
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30)	82206.D	8270E_SIM_625.M	41	1.000	22 Aug 2024	11:54 am
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31)	82207.D	8270E_SIM_625.M	43	1.000	22 Aug 2024	12:23 pm
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32)	82208.D	8270E_SIM_625.M	47	1.000	22 Aug 2024	01:42 pm
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33)	82209.D	8270E_SIM_625.M	11	1.000	22 Aug 2024	02:21 pm
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34)	82210.D	8270E_SIM_625.M	12	1.000	22 Aug 2024	02:51 pm
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35)	82211.D	8270E_SIM_625.M	13	1.000	22 Aug 2024	03:21 pm
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36)	82212.D	8270E_SIM_625.M	14	1.000	22 Aug 2024	03:51 pm
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37)	82213.D	8270E_SIM_625.M	15	1.000	22 Aug 2024	04:21 pm
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38)	82214.D	8270E_SIM_625.M	48	1.000	22 Aug 2024	04:50 pm
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39)	82215.D	8270E_SIM_625.M	2	1.000	22 Aug 2024	05:20 pm
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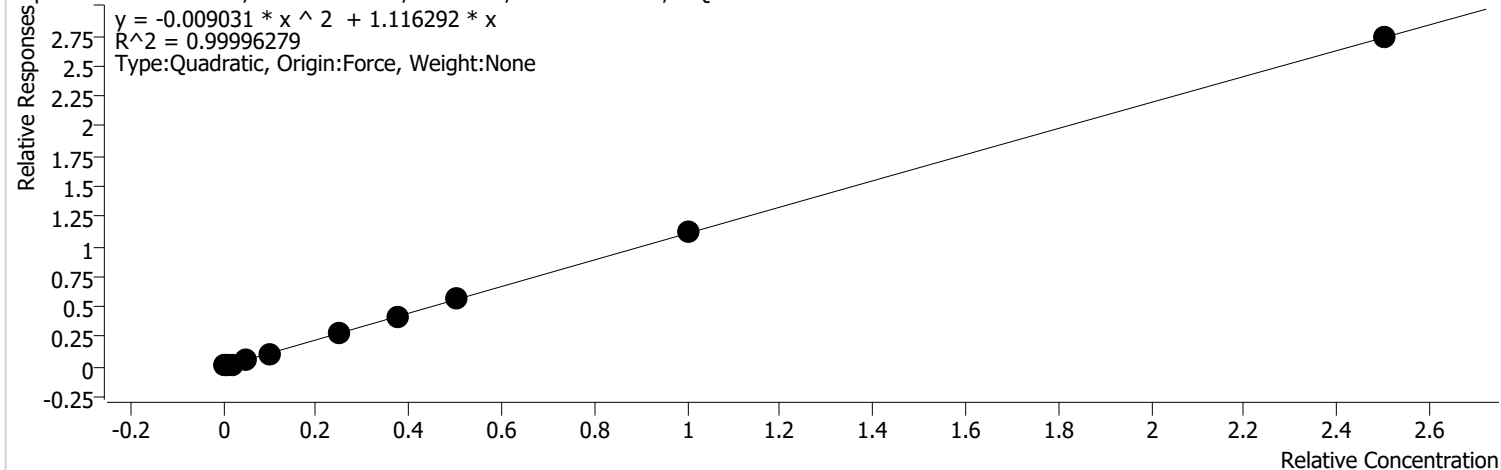
# Calibration

# Calibration Report

Batch Path	C:\GC-14\Data\2024\072524\QuantResults\PAH ICAL.batch.bin	Analyst Name	FA\GC14
Analysis Time	7/26/2024 11:06 AM	Reporter Name	FA\GC14
Report Time	7/26/2024 11:07:55 AM	Batch State	Processed
Last Calib Update	7/26/2024 11:06 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

**Naphthalene %RSE = 5.0**

Naphthalene - 10 Levels, 10 Levels Used, 10 Points, 10 Points Used, 0 QCs



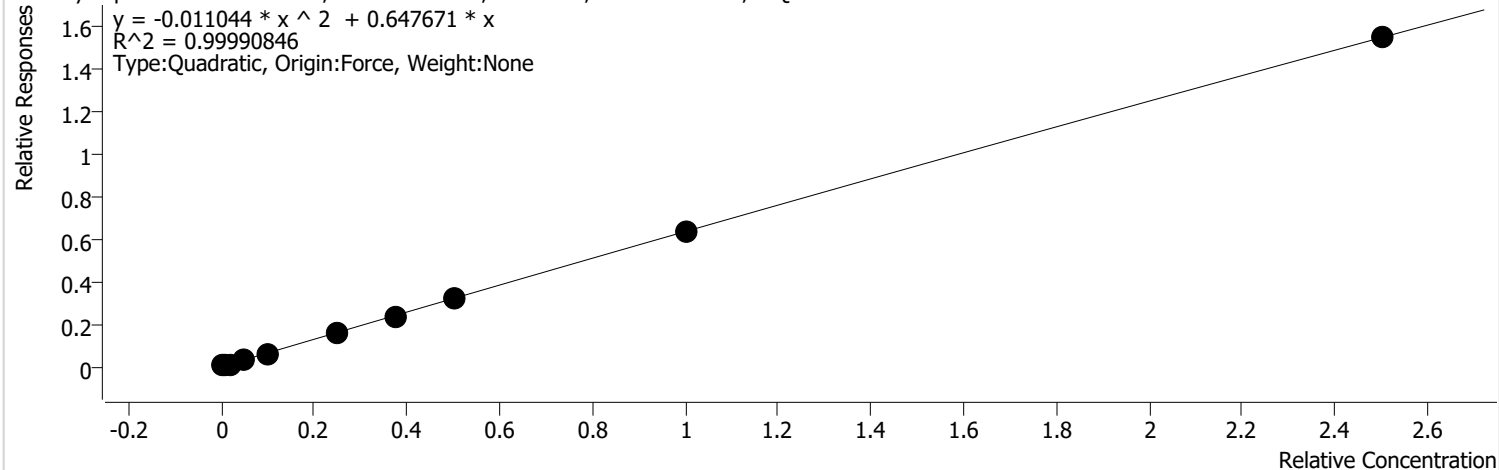
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
C:\GC-14\Data\2024\072524\072503.D	Calibration	1	x	760	10.0000	1.2189	
C:\GC-14\Data\2024\072524\072504.D	Calibration	2	x	1279	20.0000	1.0537	
C:\GC-14\Data\2024\072524\072505.D	Calibration	3	x	2778	40.0000	1.0995	
C:\GC-14\Data\2024\072524\072506.D	Calibration	4	x	6755	100.0000	1.0531	
C:\GC-14\Data\2024\072524\072507.D	Calibration	5	x	13904	200.0000	1.0749	
C:\GC-14\Data\2024\072524\072508.D	Calibration	6	x	33489	500.0000	1.0810	
C:\GC-14\Data\2024\072524\072509.D	Calibration	7	x	52515	750.0000	1.0878	
C:\GC-14\Data\2024\072524\072510.D	Calibration	8	x	70649	1000.0000	1.1194	
C:\GC-14\Data\2024\072524\072511.D	Calibration	9	x	143935	2000.0000	1.1137	
C:\GC-14\Data\2024\072524\072512.D	Calibration	10	x	363543	5000.0000	1.0934	

# Calibration Report

Batch Path	C:\GC-14\Data\2024\072524\QuantResults\PAH ICAL.batch.bin	Analyst Name	FA\GC14
Analysis Time	7/26/2024 11:06 AM	Reporter Name	FA\GC14
Report Time	7/26/2024 11:07:56 AM	Batch State	Processed
Last Calib Update	7/26/2024 11:06 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

**2-Methylnaphthalene %RSE = 10.3**

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\2024\072524\072503.D	Calibration	1	x	397	10.0000	0.6364	
C:\GC-14\Data\2024\072524\072504.D	Calibration	2	x	623	20.0000	0.5128	
C:\GC-14\Data\2024\072524\072505.D	Calibration	3	x	1465	40.0000	0.5799	
C:\GC-14\Data\2024\072524\072506.D	Calibration	4	x	3692	100.0000	0.5756	
C:\GC-14\Data\2024\072524\072507.D	Calibration	5	x	7777	200.0000	0.6013	
C:\GC-14\Data\2024\072524\072508.D	Calibration	6	x	19229	500.0000	0.6207	
C:\GC-14\Data\2024\072524\072509.D	Calibration	7	x	29961	750.0000	0.6206	
C:\GC-14\Data\2024\072524\072510.D	Calibration	8	x	40997	1000.0000	0.6496	
C:\GC-14\Data\2024\072524\072511.D	Calibration	9	x	82979	2000.0000	0.6421	
C:\GC-14\Data\2024\072524\072512.D	Calibration	10	x	206071	5000.0000	0.6198	

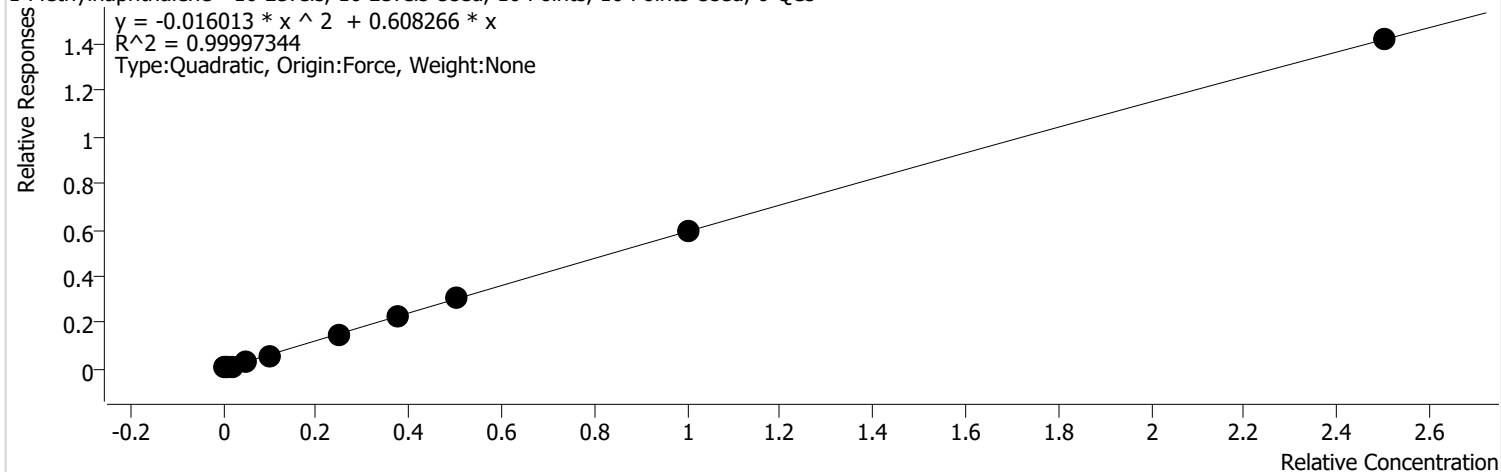


# Calibration Report

Batch Path	C:\GC-14\Data\2024\072524\QuantResults\PAH ICAL.batch.bin	Analyst Name	FA\GC14
Analysis Time	7/26/2024 11:06 AM	Reporter Name	FA\GC14
Report Time	7/26/2024 11:07:56 AM	Batch State	Processed
Last Calib Update	7/26/2024 11:06 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

## 1-Methylnaphthalene %RSE = 7.9

1-Methylnaphthalene - 10 Levels, 10 Levels Used, 10 Points, 10 Points Used, 0 QCs

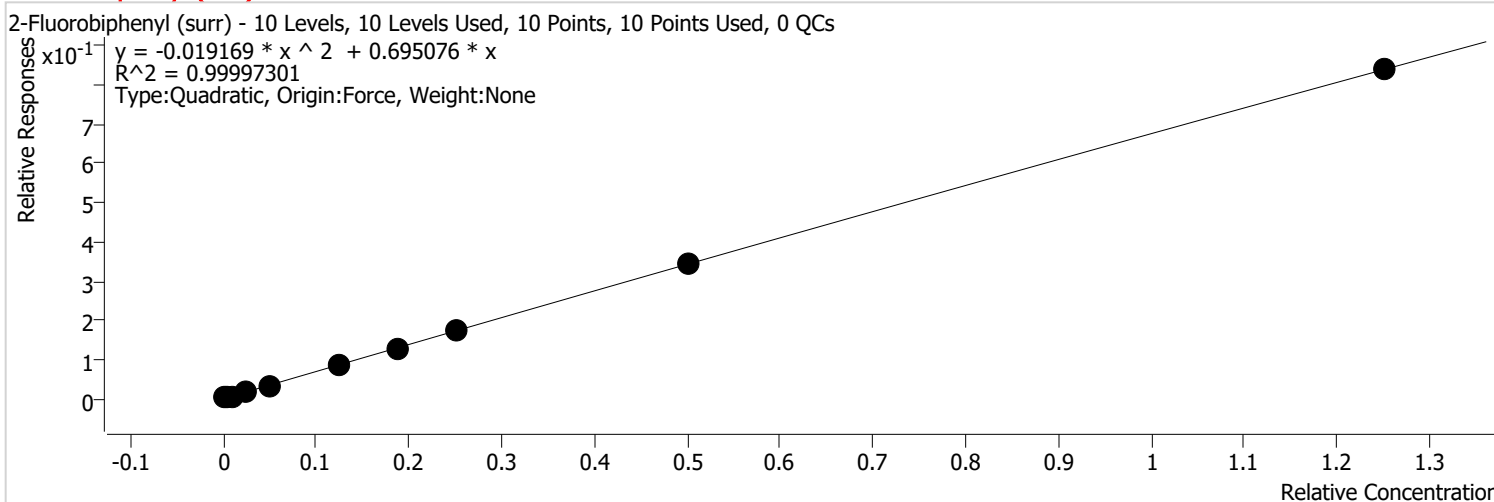


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
C:\GC-14\Data\2024\072524\072503.D	Calibration	1	x	379	10.0000	0.6083	
C:\GC-14\Data\2024\072524\072504.D	Calibration	2	x	603	20.0000	0.4970	
C:\GC-14\Data\2024\072524\072505.D	Calibration	3	x	1512	40.0000	0.5982	
C:\GC-14\Data\2024\072524\072506.D	Calibration	4	x	3542	100.0000	0.5522	
C:\GC-14\Data\2024\072524\072507.D	Calibration	5	x	7561	200.0000	0.5846	
C:\GC-14\Data\2024\072524\072508.D	Calibration	6	x	18278	500.0000	0.5900	
C:\GC-14\Data\2024\072524\072509.D	Calibration	7	x	28708	750.0000	0.5946	
C:\GC-14\Data\2024\072524\072510.D	Calibration	8	x	38287	1000.0000	0.6066	
C:\GC-14\Data\2024\072524\072511.D	Calibration	9	x	76712	2000.0000	0.5936	
C:\GC-14\Data\2024\072524\072512.D	Calibration	10	x	188907	5000.0000	0.5681	

# Calibration Report

Batch Path	C:\GC-14\Data\2024\072524\QuantResults\PAH ICAL.batch.bin	Analyst Name	FA\GC14
Analysis Time	7/26/2024 11:06 AM	Reporter Name	FA\GC14
Report Time	7/26/2024 11:07:56 AM	Batch State	Processed
Last Calib Update	7/26/2024 11:06 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

**2-Fluorobiphenyl (surr) %RSE =**



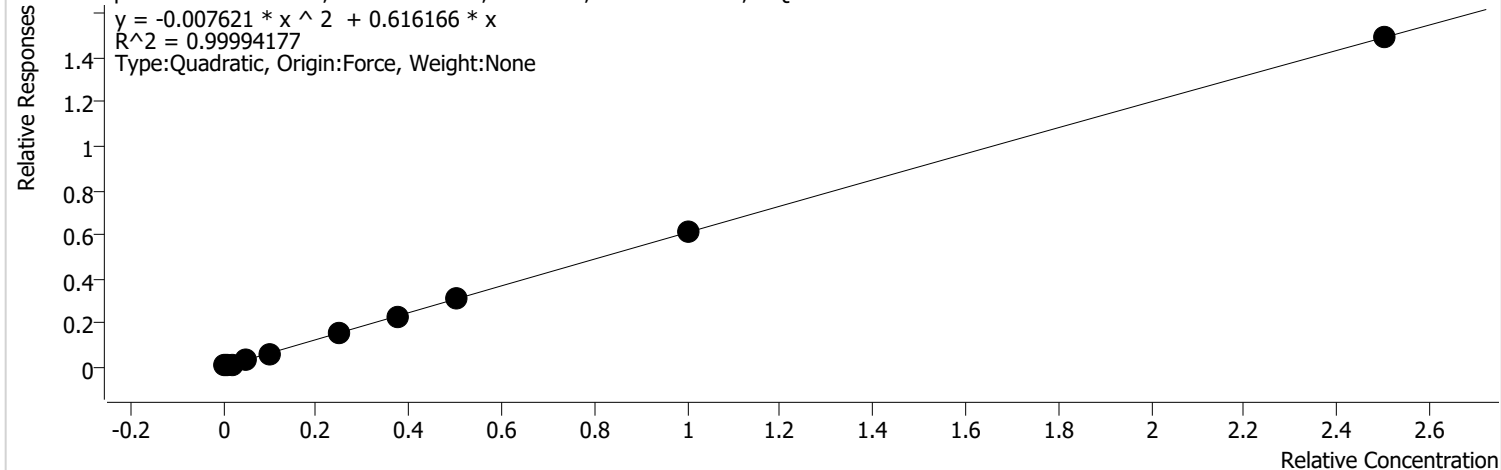
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
C:\GC-14\Data\2024\072524\072503.D	Calibration	1	x	231	5.0000	0.7392	
C:\GC-14\Data\2024\072524\072504.D	Calibration	2	x	378	10.0000	0.6234	
C:\GC-14\Data\2024\072524\072505.D	Calibration	3	x	841	20.0000	0.6658	
C:\GC-14\Data\2024\072524\072506.D	Calibration	4	x	2072	50.0000	0.6460	
C:\GC-14\Data\2024\072524\072507.D	Calibration	5	x	4256	100.0000	0.6580	
C:\GC-14\Data\2024\072524\072508.D	Calibration	6	x	10463	250.0000	0.6754	
C:\GC-14\Data\2024\072524\072509.D	Calibration	7	x	16464	375.0000	0.6820	
C:\GC-14\Data\2024\072524\072510.D	Calibration	8	x	21986	500.0000	0.6967	
C:\GC-14\Data\2024\072524\072511.D	Calibration	9	x	44435	1000.0000	0.6877	
C:\GC-14\Data\2024\072524\072512.D	Calibration	10	x	111550	2500.0000	0.6710	

# Calibration Report

Batch Path	C:\GC-14\Data\2024\072524\QuantResults\PAH ICAL.batch.bin	Analyst Name	FA\GC14
Analysis Time	7/26/2024 11:06 AM	Reporter Name	FA\GC14
Report Time	7/26/2024 11:07:56 AM	Batch State	Processed
Last Calib Update	7/26/2024 11:06 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

**2-Chloronaphthalene %RSE = 7.5**

2-Chloronaphthalene - 10 Levels, 10 Levels Used, 10 Points, 10 Points Used, 0 QCs

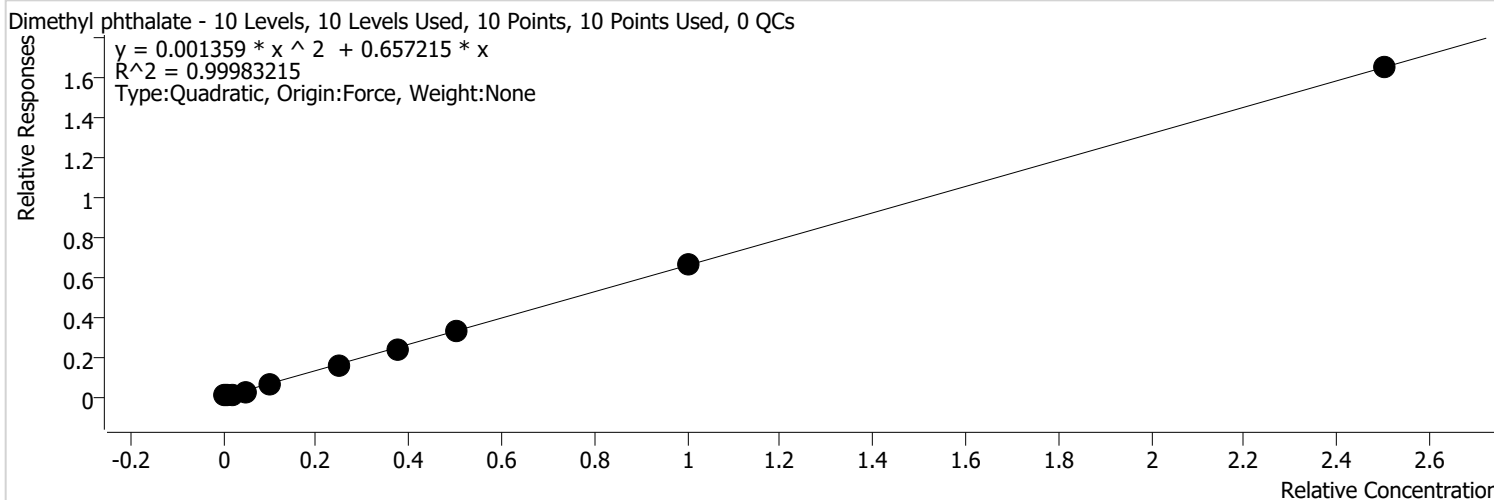


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
C:\GC-14\Data\2024\072524\072503.D	Calibration	1	x	392	10.0000	0.6286	
C:\GC-14\Data\2024\072524\072504.D	Calibration	2	x	647	20.0000	0.5326	
C:\GC-14\Data\2024\072524\072505.D	Calibration	3	x	1431	40.0000	0.5661	
C:\GC-14\Data\2024\072524\072506.D	Calibration	4	x	3617	100.0000	0.5639	
C:\GC-14\Data\2024\072524\072507.D	Calibration	5	x	7421	200.0000	0.5737	
C:\GC-14\Data\2024\072524\072508.D	Calibration	6	x	18363	500.0000	0.5927	
C:\GC-14\Data\2024\072524\072509.D	Calibration	7	x	28895	750.0000	0.5985	
C:\GC-14\Data\2024\072524\072510.D	Calibration	8	x	38816	1000.0000	0.6150	
C:\GC-14\Data\2024\072524\072511.D	Calibration	9	x	79292	2000.0000	0.6136	
C:\GC-14\Data\2024\072524\072512.D	Calibration	10	x	198452	5000.0000	0.5968	

# Calibration Report

Batch Path	C:\GC-14\Data\2024\072524\QuantResults\PAH ICAL.batch.bin	Analyst Name	FA\GC14
Analysis Time	7/26/2024 11:06 AM	Reporter Name	FA\GC14
Report Time	7/26/2024 11:07:56 AM	Batch State	Processed
Last Calib Update	7/26/2024 11:06 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

**Dimethyl phthalate %RSE = 19.4**



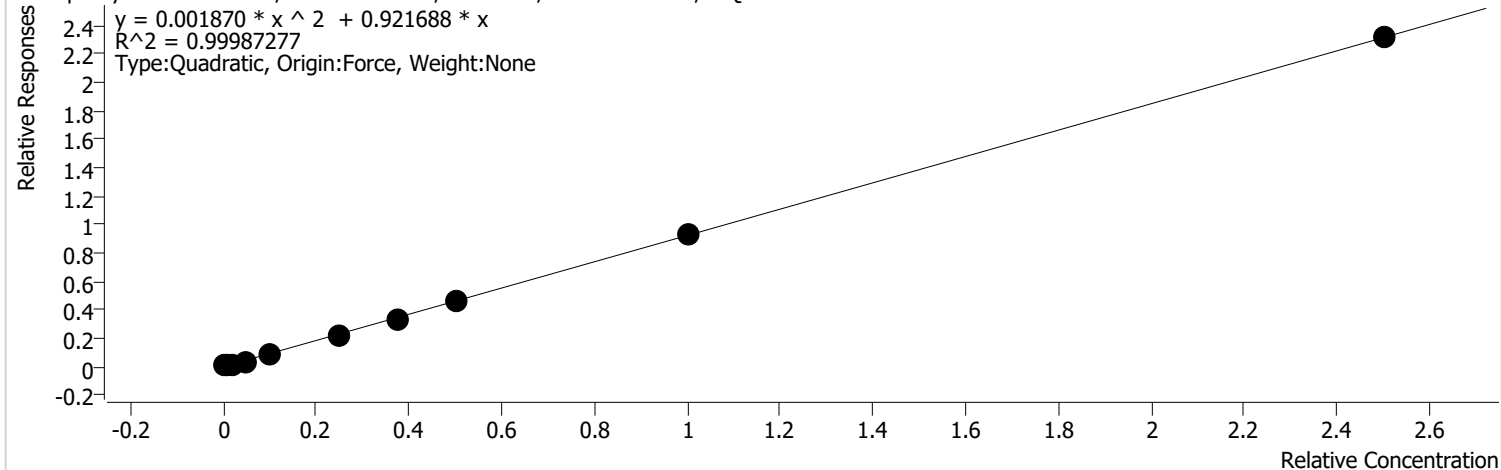
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
C:\GC-14\Data\2024\072524\072503.D	Calibration	1	x	594	10.0000	0.9527	
C:\GC-14\Data\2024\072524\072504.D	Calibration	2	x	708	20.0000	0.5831	
C:\GC-14\Data\2024\072524\072505.D	Calibration	3	x	1514	40.0000	0.5992	
C:\GC-14\Data\2024\072524\072506.D	Calibration	4	x	3603	100.0000	0.5618	
C:\GC-14\Data\2024\072524\072507.D	Calibration	5	x	7552	200.0000	0.5838	
C:\GC-14\Data\2024\072524\072508.D	Calibration	6	x	18902	500.0000	0.6101	
C:\GC-14\Data\2024\072524\072509.D	Calibration	7	x	30648	750.0000	0.6348	
C:\GC-14\Data\2024\072524\072510.D	Calibration	8	x	41635	1000.0000	0.6597	
C:\GC-14\Data\2024\072524\072511.D	Calibration	9	x	86406	2000.0000	0.6686	
C:\GC-14\Data\2024\072524\072512.D	Calibration	10	x	219480	5000.0000	0.6601	

# Calibration Report

Batch Path	C:\GC-14\Data\2024\072524\QuantResults\PAH ICAL.batch.bin	Analyst Name	FA\GC14
Analysis Time	7/26/2024 11:06 AM	Reporter Name	FA\GC14
Report Time	7/26/2024 11:07:56 AM	Batch State	Processed
Last Calib Update	7/26/2024 11:06 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

**Acenaphthylene %RSE = 13.7**

Acenaphthylene - 10 Levels, 10 Levels Used, 10 Points, 10 Points Used, 0 QCs

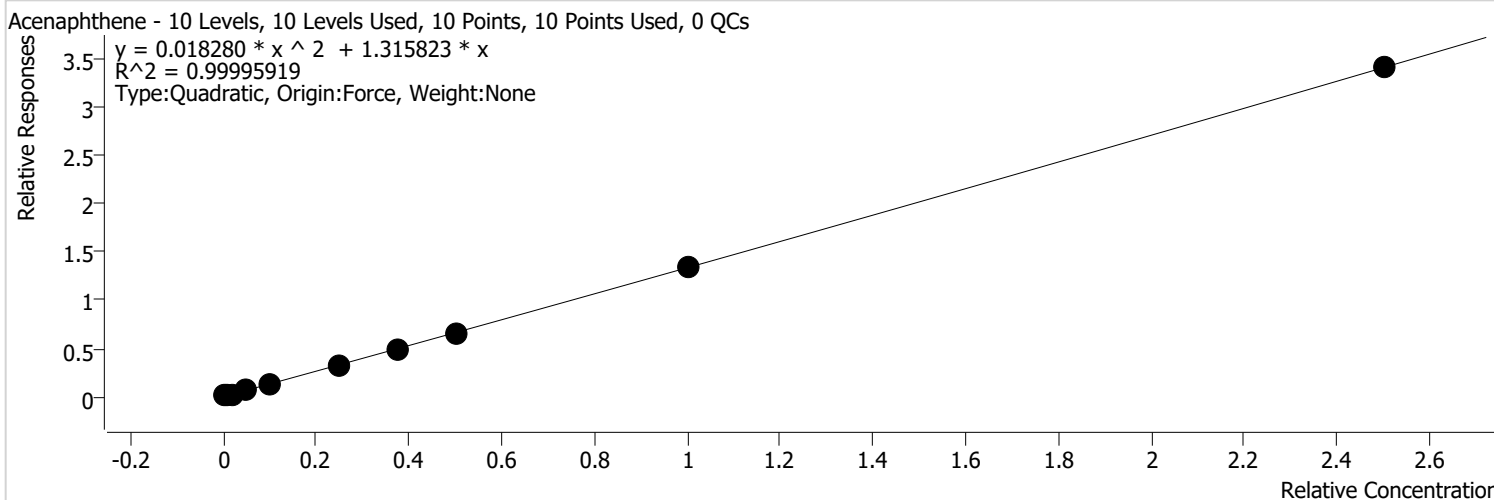


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
C:\GC-14\Data\2024\072524\072503.D	Calibration	1	x	547	10.0000	0.8772	
C:\GC-14\Data\2024\072524\072504.D	Calibration	2	x	857	20.0000	0.7055	
C:\GC-14\Data\2024\072524\072505.D	Calibration	3	x	1960	40.0000	0.7757	
C:\GC-14\Data\2024\072524\072506.D	Calibration	4	x	4886	100.0000	0.7618	
C:\GC-14\Data\2024\072524\072507.D	Calibration	5	x	10525	200.0000	0.8137	
C:\GC-14\Data\2024\072524\072508.D	Calibration	6	x	26918	500.0000	0.8689	
C:\GC-14\Data\2024\072524\072509.D	Calibration	7	x	43216	750.0000	0.8952	
C:\GC-14\Data\2024\072524\072510.D	Calibration	8	x	59004	1000.0000	0.9349	
C:\GC-14\Data\2024\072524\072511.D	Calibration	9	x	120500	2000.0000	0.9324	
C:\GC-14\Data\2024\072524\072512.D	Calibration	10	x	307848	5000.0000	0.9259	

# Calibration Report

Batch Path	C:\GC-14\Data\2024\072524\QuantResults\PAH ICAL.batch.bin	Analyst Name	FA\GC14
Analysis Time	7/26/2024 11:06 AM	Reporter Name	FA\GC14
Report Time	7/26/2024 11:07:56 AM	Batch State	Processed
Last Calib Update	7/26/2024 11:06 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

**Acenaphthene %RSE = 7.9**



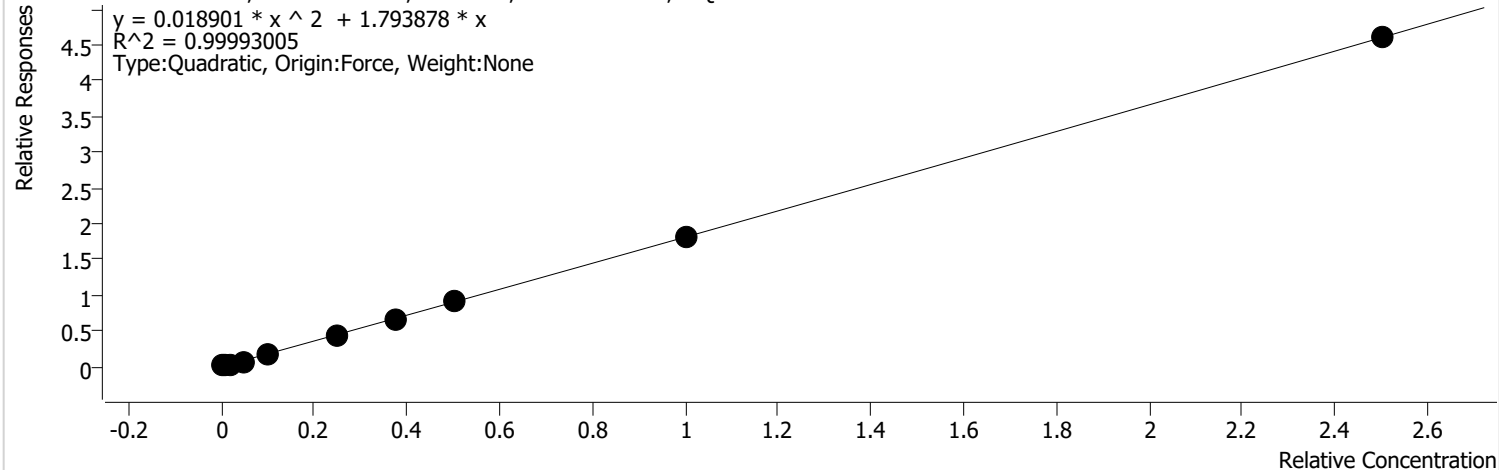
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
C:\GC-14\Data\2024\072524\072503.D	Calibration	1	x	467	10.0000	1.5510	
C:\GC-14\Data\2024\072524\072504.D	Calibration	2	x	715	20.0000	1.2131	
C:\GC-14\Data\2024\072524\072505.D	Calibration	3	x	1600	40.0000	1.3031	
C:\GC-14\Data\2024\072524\072506.D	Calibration	4	x	3809	100.0000	1.2333	
C:\GC-14\Data\2024\072524\072507.D	Calibration	5	x	7947	200.0000	1.2893	
C:\GC-14\Data\2024\072524\072508.D	Calibration	6	x	19026	500.0000	1.2815	
C:\GC-14\Data\2024\072524\072509.D	Calibration	7	x	29711	750.0000	1.2896	
C:\GC-14\Data\2024\072524\072510.D	Calibration	8	x	39570	1000.0000	1.3238	
C:\GC-14\Data\2024\072524\072511.D	Calibration	9	x	80859	2000.0000	1.3455	
C:\GC-14\Data\2024\072524\072512.D	Calibration	10	x	204567	5000.0000	1.3610	

# Calibration Report

Batch Path	C:\GC-14\Data\2024\072524\QuantResults\PAH ICAL.batch.bin	Analyst Name	FA\GC14
Analysis Time	7/26/2024 11:06 AM	Reporter Name	FA\GC14
Report Time	7/26/2024 11:07:56 AM	Batch State	Processed
Last Calib Update	7/26/2024 11:06 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

**Dibenzofuran %RSE = 7.5**

Dibenzofuran - 10 Levels, 10 Levels Used, 10 Points, 10 Points Used, 0 QCs



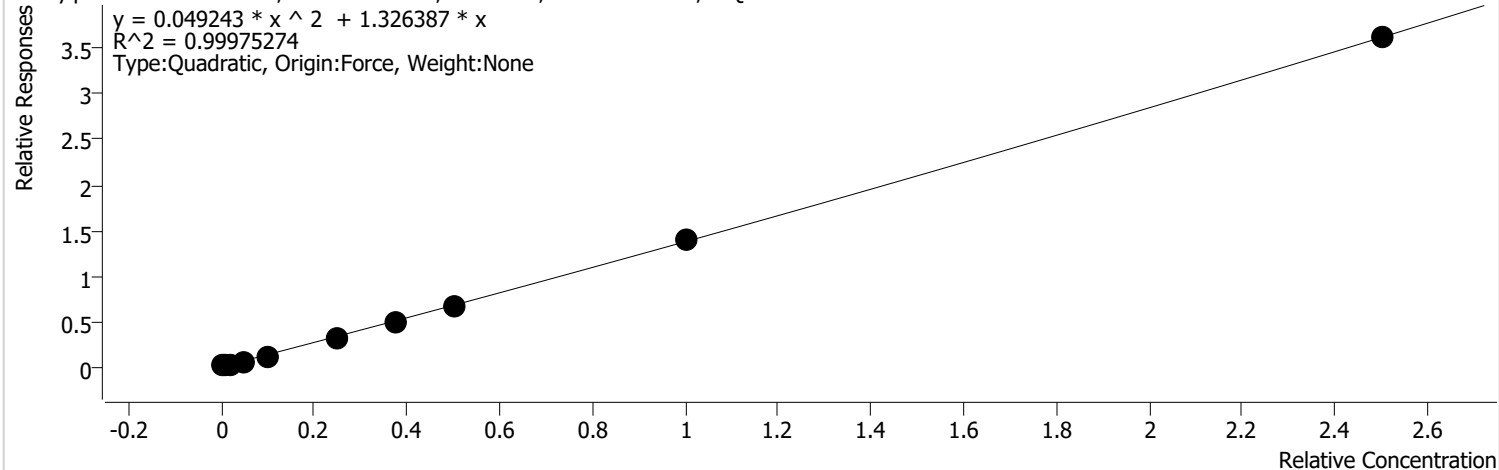
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
C:\GC-14\Data\2024\072524\072503.D	Calibration	1	x	552	10.0000	1.8343	
C:\GC-14\Data\2024\072524\072504.D	Calibration	2	x	920	20.0000	1.5595	
C:\GC-14\Data\2024\072524\072505.D	Calibration	3	x	2019	40.0000	1.6443	
C:\GC-14\Data\2024\072524\072506.D	Calibration	4	x	4990	100.0000	1.6155	
C:\GC-14\Data\2024\072524\072507.D	Calibration	5	x	10551	200.0000	1.7120	
C:\GC-14\Data\2024\072524\072508.D	Calibration	6	x	25655	500.0000	1.7280	
C:\GC-14\Data\2024\072524\072509.D	Calibration	7	x	40118	750.0000	1.7414	
C:\GC-14\Data\2024\072524\072510.D	Calibration	8	x	54343	1000.0000	1.8180	
C:\GC-14\Data\2024\072524\072511.D	Calibration	9	x	109887	2000.0000	1.8286	
C:\GC-14\Data\2024\072524\072512.D	Calibration	10	x	276615	5000.0000	1.8403	

# Calibration Report

Batch Path	C:\GC-14\Data\2024\072524\QuantResults\PAH ICAL.batch.bin	Analyst Name	FA\GC14
Analysis Time	7/26/2024 11:06 AM	Reporter Name	FA\GC14
Report Time	7/26/2024 11:07:56 AM	Batch State	Processed
Last Calib Update	7/26/2024 11:06 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

**Diethylphthalate %RSE = 15.7**

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\2024\072524\072503.D	Calibration	1	x	493	10.0000	1.6394	
C:\GC-14\Data\2024\072524\072504.D	Calibration	2	x	657	20.0000	1.1141	
C:\GC-14\Data\2024\072524\072505.D	Calibration	3	x	1364	40.0000	1.1109	
C:\GC-14\Data\2024\072524\072506.D	Calibration	4	x	3315	100.0000	1.0734	
C:\GC-14\Data\2024\072524\072507.D	Calibration	5	x	7076	200.0000	1.1481	
C:\GC-14\Data\2024\072524\072508.D	Calibration	6	x	18306	500.0000	1.2330	
C:\GC-14\Data\2024\072524\072509.D	Calibration	7	x	29344	750.0000	1.2737	
C:\GC-14\Data\2024\072524\072510.D	Calibration	8	x	40276	1000.0000	1.3474	
C:\GC-14\Data\2024\072524\072511.D	Calibration	9	x	84435	2000.0000	1.4051	
C:\GC-14\Data\2024\072524\072512.D	Calibration	10	x	217651	5000.0000	1.4480	

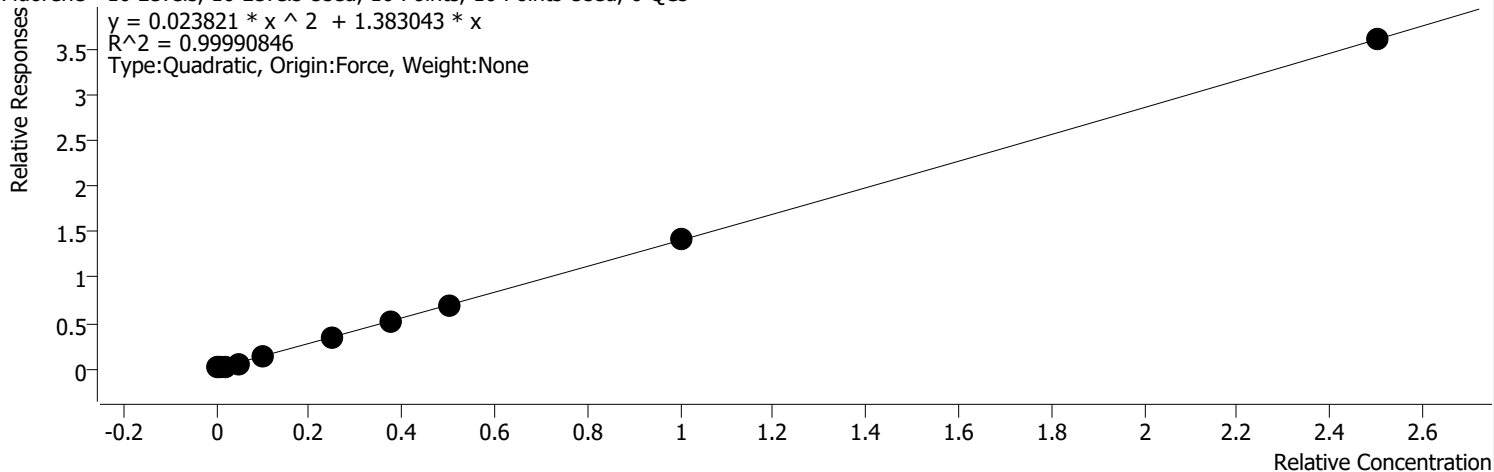


# Calibration Report

Batch Path	C:\GC-14\Data\2024\072524\QuantResults\PAH ICAL.batch.bin	Analyst Name	FA\GC14
Analysis Time	7/26/2024 11:06 AM	Reporter Name	FA\GC14
Report Time	7/26/2024 11:07:56 AM	Batch State	Processed
Last Calib Update	7/26/2024 11:06 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

**Fluorene %RSE = 10.5**

Fluorene - 10 Levels, 10 Levels Used, 10 Points, 10 Points Used, 0 QCs

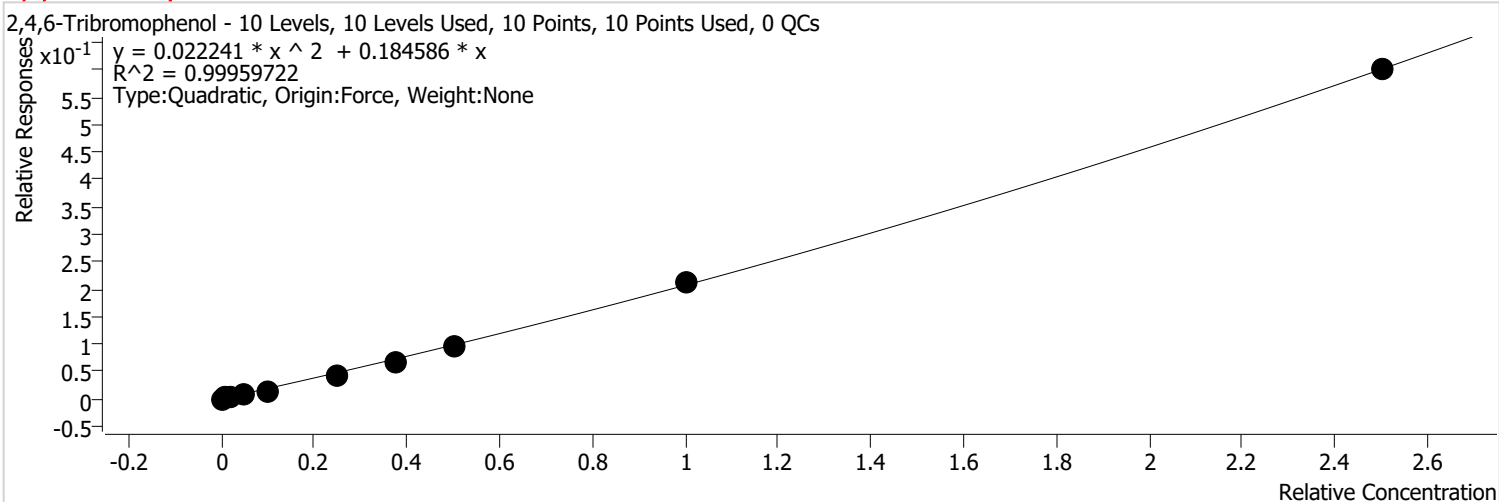


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
C:\GC-14\Data\2024\072524\072503.D	Calibration	1	x	480	10.0000	1.5967	
C:\GC-14\Data\2024\072524\072504.D	Calibration	2	x	692	20.0000	1.1740	
C:\GC-14\Data\2024\072524\072505.D	Calibration	3	x	1539	40.0000	1.2541	
C:\GC-14\Data\2024\072524\072506.D	Calibration	4	x	3757	100.0000	1.2164	
C:\GC-14\Data\2024\072524\072507.D	Calibration	5	x	8002	200.0000	1.2983	
C:\GC-14\Data\2024\072524\072508.D	Calibration	6	x	19609	500.0000	1.3208	
C:\GC-14\Data\2024\072524\072509.D	Calibration	7	x	31012	750.0000	1.3461	
C:\GC-14\Data\2024\072524\072510.D	Calibration	8	x	41786	1000.0000	1.3979	
C:\GC-14\Data\2024\072524\072511.D	Calibration	9	x	85549	2000.0000	1.4236	
C:\GC-14\Data\2024\072524\072512.D	Calibration	10	x	216709	5000.0000	1.4417	

# Calibration Report

Batch Path	C:\GC-14\Data\2024\072524\QuantResults\PAH ICAL.batch.bin	Analyst Name	FA\GC14
Analysis Time	7/26/2024 11:06 AM	Reporter Name	FA\GC14
Report Time	7/26/2024 11:07:56 AM	Batch State	Processed
Last Calib Update	7/26/2024 11:06 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

**2,4,6-Tribromophenol %RSE =**



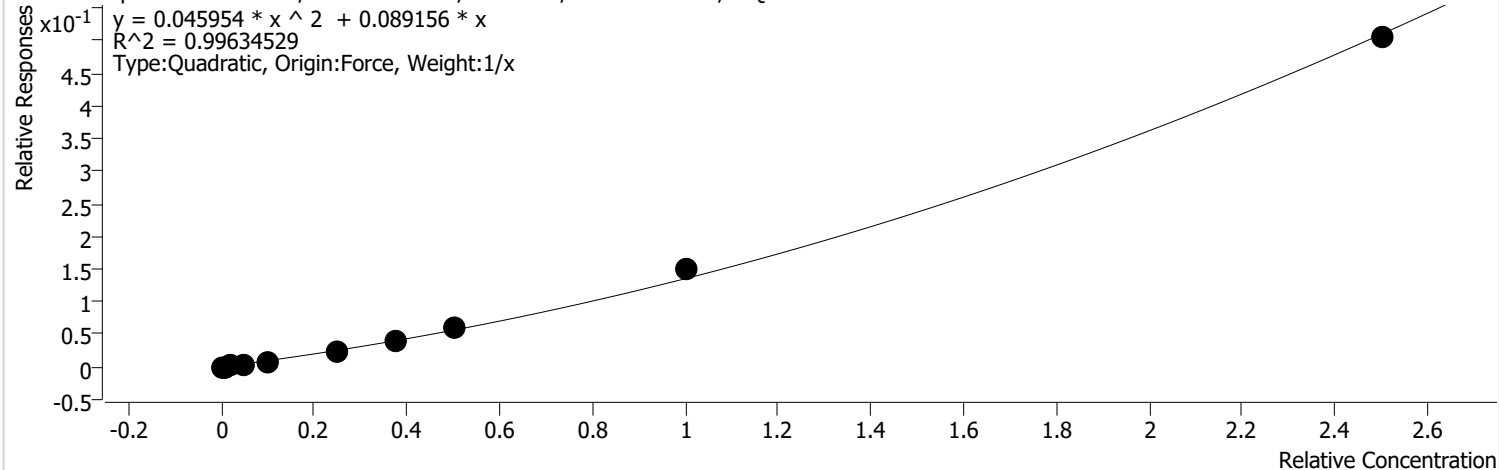
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
C:\GC-14\Data\2024\072524\072503.D	Calibration	1	x	49	10.0000	0.1614	
C:\GC-14\Data\2024\072524\072504.D	Calibration	2	x	78	20.0000	0.1327	
C:\GC-14\Data\2024\072524\072505.D	Calibration	3	x	168	40.0000	0.1369	
C:\GC-14\Data\2024\072524\072506.D	Calibration	4	x	422	100.0000	0.1365	
C:\GC-14\Data\2024\072524\072507.D	Calibration	5	x	940	200.0000	0.1525	
C:\GC-14\Data\2024\072524\072508.D	Calibration	6	x	2482	500.0000	0.1672	
C:\GC-14\Data\2024\072524\072509.D	Calibration	7	x	4126	750.0000	0.1791	
C:\GC-14\Data\2024\072524\072510.D	Calibration	8	x	5767	1000.0000	0.1929	
C:\GC-14\Data\2024\072524\072511.D	Calibration	9	x	12827	2000.0000	0.2135	
C:\GC-14\Data\2024\072524\072512.D	Calibration	10	x	36053	5000.0000	0.2399	

# Calibration Report

Batch Path	C:\GC-14\Data\2024\072524\QuantResults\PAH ICAL.batch.bin	Analyst Name	FA\GC14
Analysis Time	7/26/2024 11:06 AM	Reporter Name	FA\GC14
Report Time	7/26/2024 11:07:56 AM	Batch State	Processed
Last Calib Update	7/26/2024 11:06 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

**Pentachlorophenol %RSE = 33.0**

Pentachlorophenol - 10 Levels, 10 Levels Used, 10 Points, 10 Points Used, 0 QCs

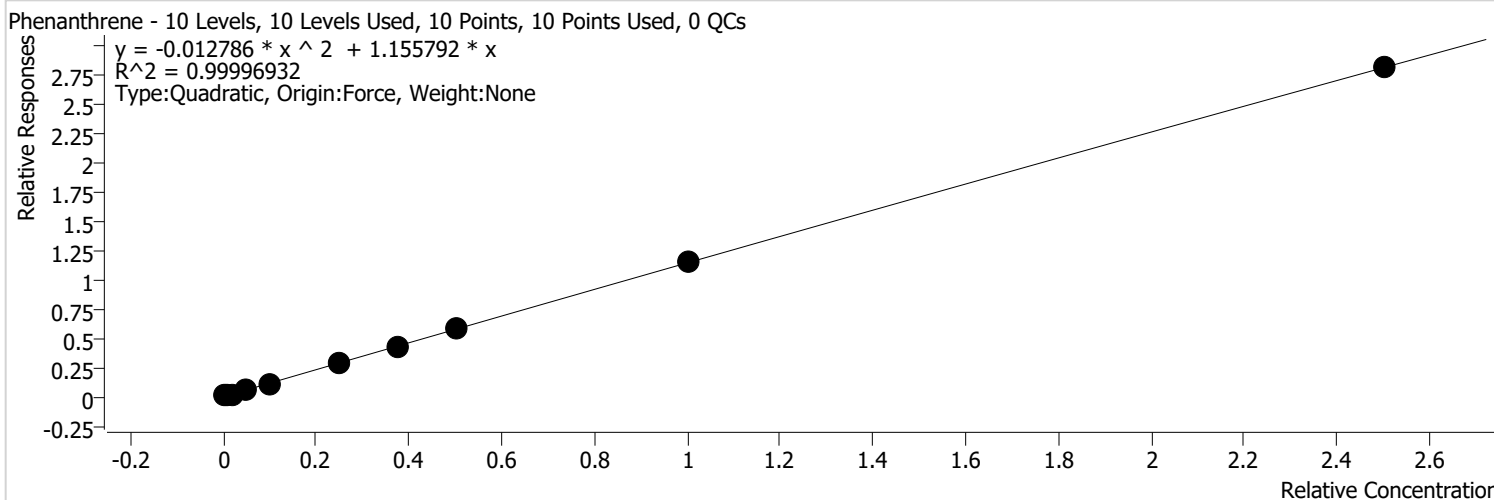


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
C:\GC-14\Data\2024\072524\072503.D	Calibration	1	x	22	10.0000	0.0739	
C:\GC-14\Data\2024\072524\072504.D	Calibration	2	x	28	20.0000	0.0474	
C:\GC-14\Data\2024\072524\072505.D	Calibration	3	x	61	40.0000	0.0493	
C:\GC-14\Data\2024\072524\072506.D	Calibration	4	x	155	100.0000	0.0503	
C:\GC-14\Data\2024\072524\072507.D	Calibration	5	x	404	200.0000	0.0655	
C:\GC-14\Data\2024\072524\072508.D	Calibration	6	x	1274	500.0000	0.0858	
C:\GC-14\Data\2024\072524\072509.D	Calibration	7	x	2368	750.0000	0.1028	
C:\GC-14\Data\2024\072524\072510.D	Calibration	8	x	3520	1000.0000	0.1178	
C:\GC-14\Data\2024\072524\072511.D	Calibration	9	x	8948	2000.0000	0.1489	
C:\GC-14\Data\2024\072524\072512.D	Calibration	10	x	30349	5000.0000	0.2019	

# Calibration Report

Batch Path	C:\GC-14\Data\2024\072524\QuantResults\PAH ICAL.batch.bin	Analyst Name	FA\GC14
Analysis Time	7/26/2024 11:06 AM	Reporter Name	FA\GC14
Report Time	7/26/2024 11:07:56 AM	Batch State	Processed
Last Calib Update	7/26/2024 11:06 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

**Phenanthrene %RSE = 17.4**

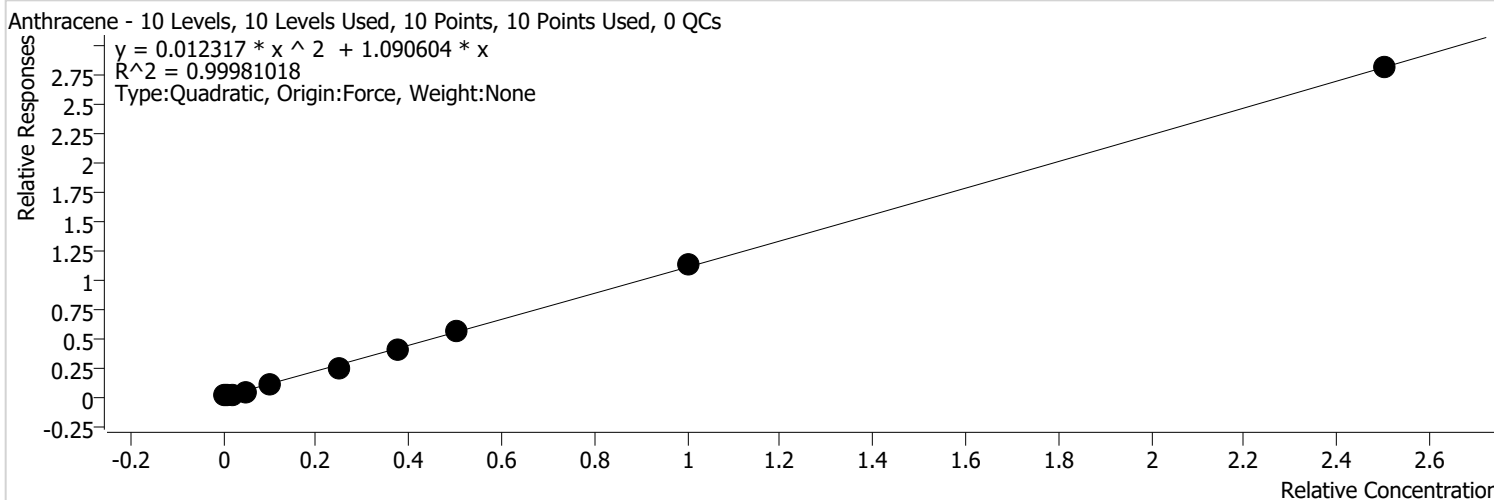


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
C:\GC-14\Data\2024\072524\072503.D	Calibration	1	x	810	10.0000	1.6776	
C:\GC-14\Data\2024\072524\072504.D	Calibration	2	x	1046	20.0000	1.1012	
C:\GC-14\Data\2024\072524\072505.D	Calibration	3	x	2229	40.0000	1.1393	
C:\GC-14\Data\2024\072524\072506.D	Calibration	4	x	5399	100.0000	1.0867	
C:\GC-14\Data\2024\072524\072507.D	Calibration	5	x	11134	200.0000	1.1134	
C:\GC-14\Data\2024\072524\072508.D	Calibration	6	x	27331	500.0000	1.1194	
C:\GC-14\Data\2024\072524\072509.D	Calibration	7	x	43075	750.0000	1.1330	
C:\GC-14\Data\2024\072524\072510.D	Calibration	8	x	57827	1000.0000	1.1637	
C:\GC-14\Data\2024\072524\072511.D	Calibration	9	x	117411	2000.0000	1.1459	
C:\GC-14\Data\2024\072524\072512.D	Calibration	10	x	296847	5000.0000	1.1236	

# Calibration Report

Batch Path	C:\GC-14\Data\2024\072524\QuantResults\PAH ICAL.batch.bin	Analyst Name	FA\GC14
Analysis Time	7/26/2024 11:06 AM	Reporter Name	FA\GC14
Report Time	7/26/2024 11:07:56 AM	Batch State	Processed
Last Calib Update	7/26/2024 11:06 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

**Anthracene %RSE = 14.1**



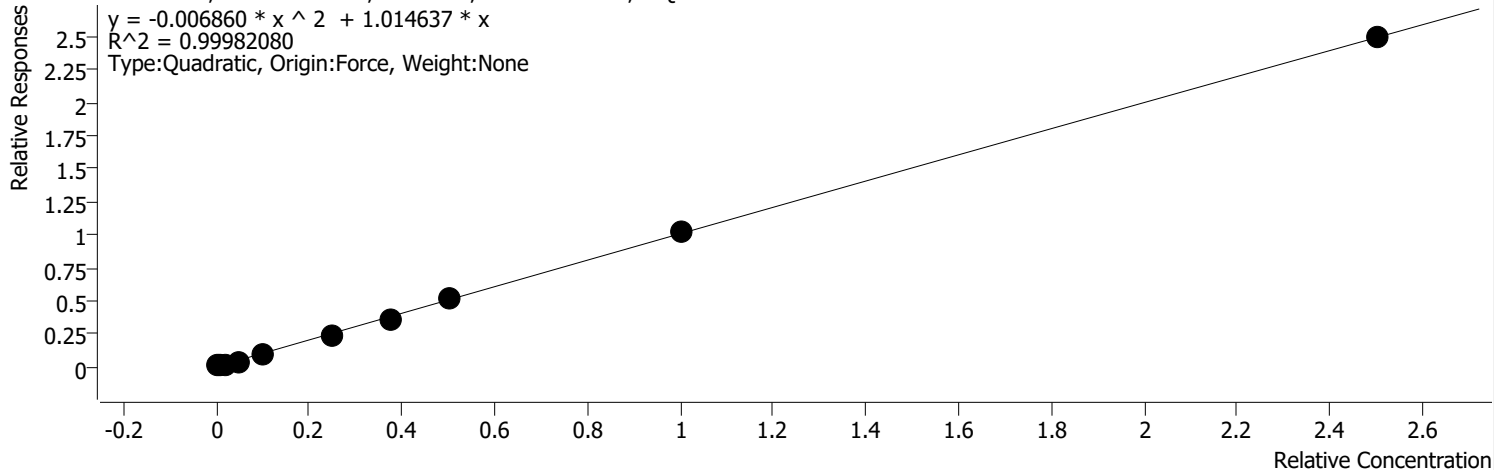
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
C:\GC-14\Data\2024\072524\072503.D	Calibration	1	x	496	10.0000	1.0273	
C:\GC-14\Data\2024\072524\072504.D	Calibration	2	x	820	20.0000	0.8632	
C:\GC-14\Data\2024\072524\072505.D	Calibration	3	x	1762	40.0000	0.9006	
C:\GC-14\Data\2024\072524\072506.D	Calibration	4	x	4376	100.0000	0.8808	
C:\GC-14\Data\2024\072524\072507.D	Calibration	5	x	9494	200.0000	0.9494	
C:\GC-14\Data\2024\072524\072508.D	Calibration	6	x	24692	500.0000	1.0113	
C:\GC-14\Data\2024\072524\072509.D	Calibration	7	x	40004	750.0000	1.0522	
C:\GC-14\Data\2024\072524\072510.D	Calibration	8	x	55155	1000.0000	1.1099	
C:\GC-14\Data\2024\072524\072511.D	Calibration	9	x	114568	2000.0000	1.1181	
C:\GC-14\Data\2024\072524\072512.D	Calibration	10	x	296036	5000.0000	1.1206	

# Calibration Report

Batch Path	C:\GC-14\Data\2024\072524\QuantResults\PAH ICAL.batch.bin	Analyst Name	FA\GC14
Analysis Time	7/26/2024 11:06 AM	Reporter Name	FA\GC14
Report Time	7/26/2024 11:07:56 AM	Batch State	Processed
Last Calib Update	7/26/2024 11:06 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

**Carbazole %RSE = 13.5**

Carbazole - 10 Levels, 10 Levels Used, 10 Points, 10 Points Used, 0 QCs



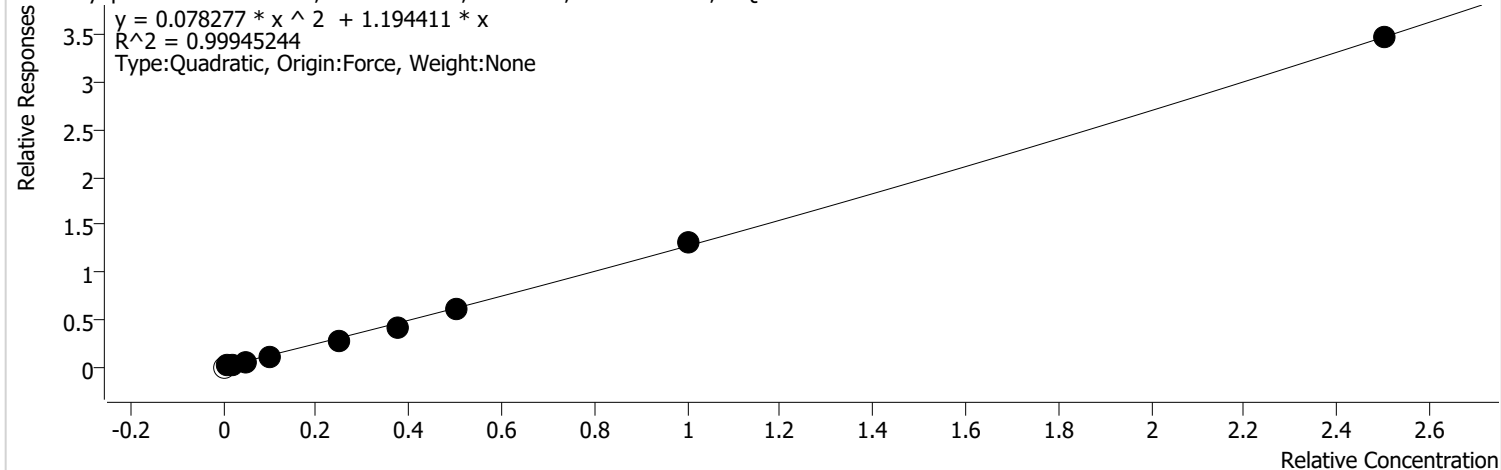
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
C:\GC-14\Data\2024\072524\072503.D	Calibration	1	x	479	10.0000	0.9930	
C:\GC-14\Data\2024\072524\072504.D	Calibration	2	x	779	20.0000	0.8201	
C:\GC-14\Data\2024\072524\072505.D	Calibration	3	x	1638	40.0000	0.8372	
C:\GC-14\Data\2024\072524\072506.D	Calibration	4	x	4054	100.0000	0.8159	
C:\GC-14\Data\2024\072524\072507.D	Calibration	5	x	8877	200.0000	0.8877	
C:\GC-14\Data\2024\072524\072508.D	Calibration	6	x	23067	500.0000	0.9447	
C:\GC-14\Data\2024\072524\072509.D	Calibration	7	x	37085	750.0000	0.9754	
C:\GC-14\Data\2024\072524\072510.D	Calibration	8	x	51411	1000.0000	1.0346	
C:\GC-14\Data\2024\072524\072511.D	Calibration	9	x	104170	2000.0000	1.0167	
C:\GC-14\Data\2024\072524\072512.D	Calibration	10	x	263376	5000.0000	0.9969	

# Calibration Report

Batch Path	C:\GC-14\Data\2024\072524\QuantResults\PAH ICAL.batch.bin	Analyst Name	FA\GC14
Analysis Time	7/26/2024 11:06 AM	Reporter Name	FA\GC14
Report Time	7/26/2024 11:07:56 AM	Batch State	Processed
Last Calib Update	7/26/2024 11:06 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

**Di-n-butyl phthalate %RSE = 17.3**

Di-n-butyl phthalate - 10 Levels, 9 Levels Used, 10 Points, 9 Points Used, 0 QCs

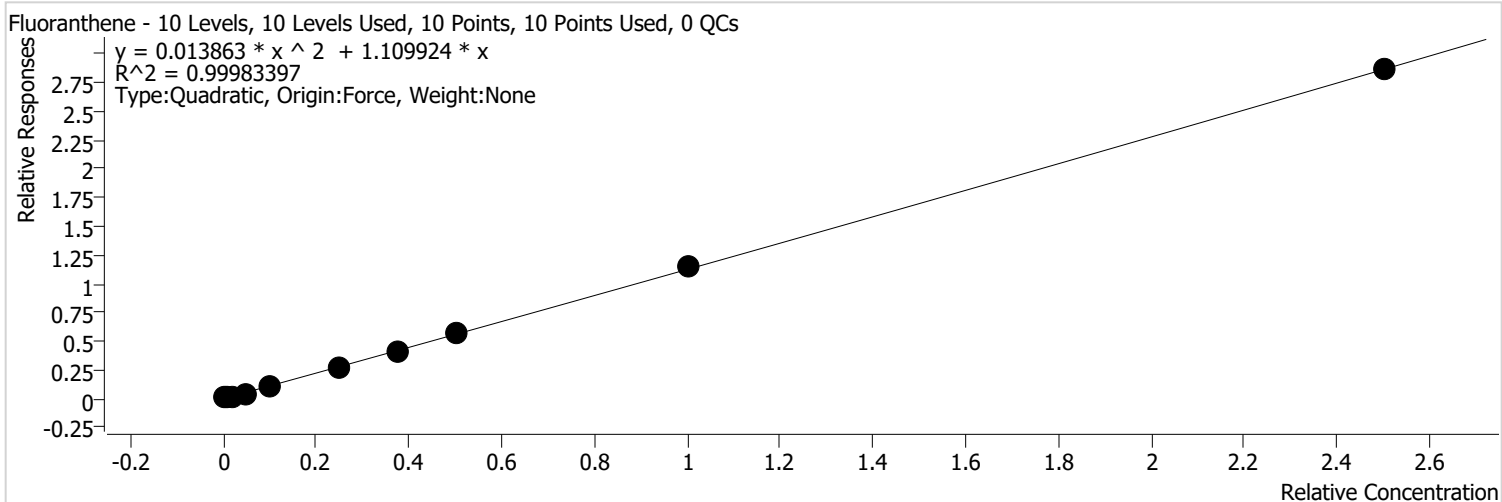


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
C:\GC-14\Data\2024\072524\072503.D	Calibration	1		0	10.0000	0.0000	
C:\GC-14\Data\2024\072524\072504.D	Calibration	2	x	1014	20.0000	1.0670	
C:\GC-14\Data\2024\072524\072505.D	Calibration	3	x	1909	40.0000	0.9757	
C:\GC-14\Data\2024\072524\072506.D	Calibration	4	x	4440	100.0000	0.8936	
C:\GC-14\Data\2024\072524\072507.D	Calibration	5	x	9451	200.0000	0.9451	
C:\GC-14\Data\2024\072524\072508.D	Calibration	6	x	25612	500.0000	1.0489	
C:\GC-14\Data\2024\072524\072509.D	Calibration	7	x	43205	750.0000	1.1364	
C:\GC-14\Data\2024\072524\072510.D	Calibration	8	x	60768	1000.0000	1.2229	
C:\GC-14\Data\2024\072524\072511.D	Calibration	9	x	134703	2000.0000	1.3147	
C:\GC-14\Data\2024\072524\072512.D	Calibration	10	x	366686	5000.0000	1.3880	

# Calibration Report

Batch Path	C:\GC-14\Data\2024\072524\QuantResults\PAH ICAL.batch.bin	Analyst Name	FA\GC14
Analysis Time	7/26/2024 11:06 AM	Reporter Name	FA\GC14
Report Time	7/26/2024 11:07:56 AM	Batch State	Processed
Last Calib Update	7/26/2024 11:06 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

**Fluoranthene %RSE = 11.5**



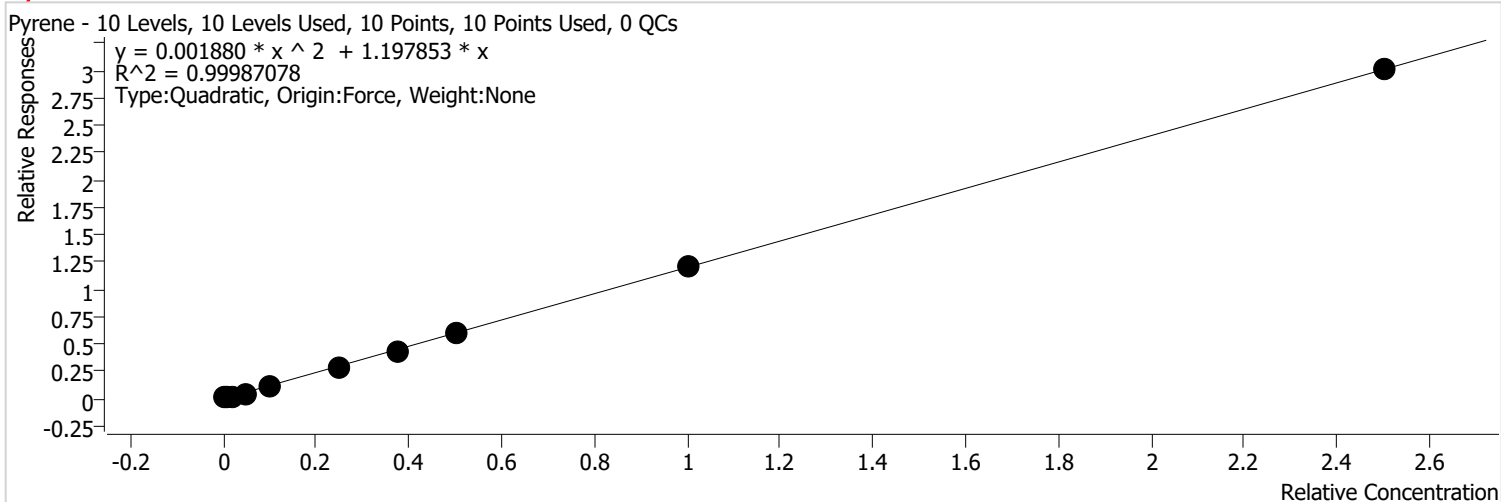
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
C:\GC-14\Data\2024\072524\072503.D	Calibration	1	x	614	10.0000	1.2707	
C:\GC-14\Data\2024\072524\072504.D	Calibration	2	x	920	20.0000	0.9688	
C:\GC-14\Data\2024\072524\072505.D	Calibration	3	x	1906	40.0000	0.9743	
C:\GC-14\Data\2024\072524\072506.D	Calibration	4	x	4683	100.0000	0.9427	
C:\GC-14\Data\2024\072524\072507.D	Calibration	5	x	9912	200.0000	0.9912	
C:\GC-14\Data\2024\072524\072508.D	Calibration	6	x	25284	500.0000	1.0355	
C:\GC-14\Data\2024\072524\072509.D	Calibration	7	x	40701	750.0000	1.0705	
C:\GC-14\Data\2024\072524\072510.D	Calibration	8	x	55813	1000.0000	1.1231	
C:\GC-14\Data\2024\072524\072511.D	Calibration	9	x	116868	2000.0000	1.1406	
C:\GC-14\Data\2024\072524\072512.D	Calibration	10	x	302148	5000.0000	1.1437	



# Calibration Report

Batch Path	C:\GC-14\Data\2024\072524\QuantResults\PAH ICAL.batch.bin	Analyst Name	FA\GC14
Analysis Time	7/26/2024 11:06 AM	Reporter Name	FA\GC14
Report Time	7/26/2024 11:07:56 AM	Batch State	Processed
Last Calib Update	7/26/2024 11:06 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

**Pyrene %RSE = 14.8**

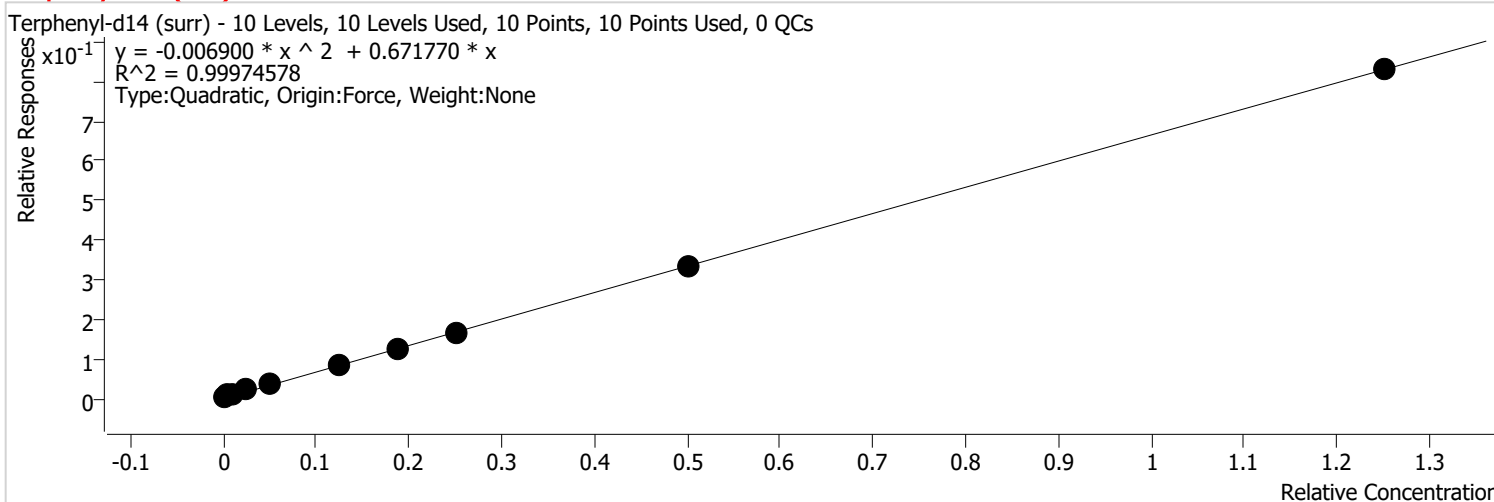


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
C:\GC-14\Data\2024\072524\072503.D	Calibration	1	x	749	10.0000	1.5510	
C:\GC-14\Data\2024\072524\072504.D	Calibration	2	x	1007	20.0000	1.0598	
C:\GC-14\Data\2024\072524\072505.D	Calibration	3	x	2063	40.0000	1.0546	
C:\GC-14\Data\2024\072524\072506.D	Calibration	4	x	5046	100.0000	1.0156	
C:\GC-14\Data\2024\072524\072507.D	Calibration	5	x	10779	200.0000	1.0779	
C:\GC-14\Data\2024\072524\072508.D	Calibration	6	x	27456	500.0000	1.1245	
C:\GC-14\Data\2024\072524\072509.D	Calibration	7	x	44107	750.0000	1.1601	
C:\GC-14\Data\2024\072524\072510.D	Calibration	8	x	60063	1000.0000	1.2087	
C:\GC-14\Data\2024\072524\072511.D	Calibration	9	x	124369	2000.0000	1.2138	
C:\GC-14\Data\2024\072524\072512.D	Calibration	10	x	317496	5000.0000	1.2018	

# Calibration Report

Batch Path	C:\GC-14\Data\2024\072524\QuantResults\PAH ICAL.batch.bin	Analyst Name	FA\GC14
Analysis Time	7/26/2024 11:06 AM	Reporter Name	FA\GC14
Report Time	7/26/2024 11:07:56 AM	Batch State	Processed
Last Calib Update	7/26/2024 11:06 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

**Terphenyl-d14 (surr) %RSE =**



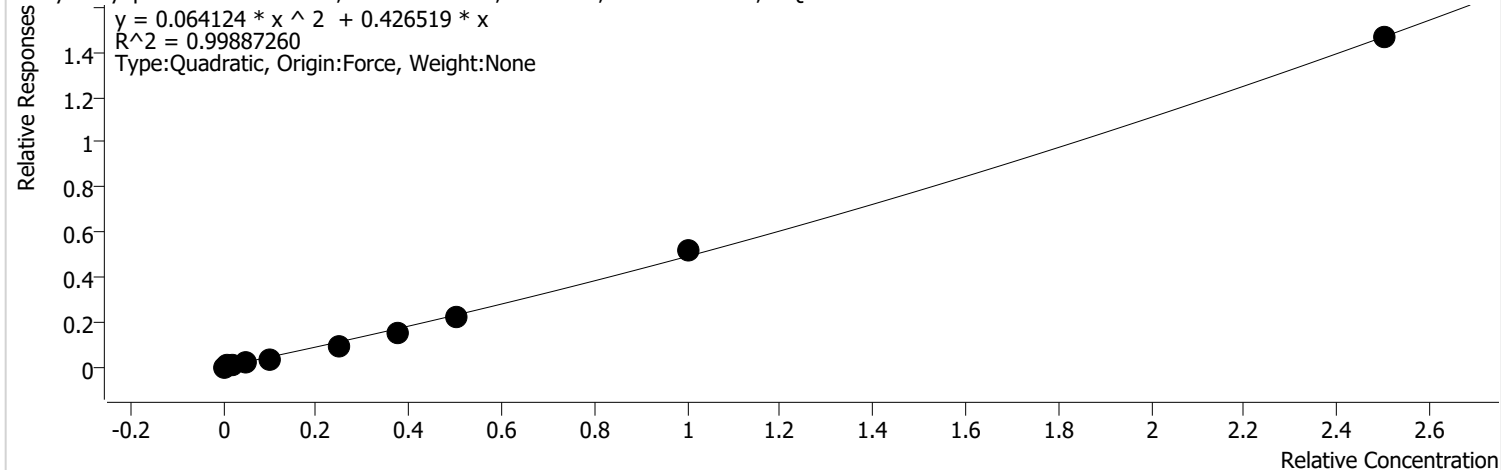
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
C:\GC-14\Data\2024\072524\072503.D	Calibration	1	x	387	5.0000	1.6034	
C:\GC-14\Data\2024\072524\072504.D	Calibration	2	x	1072	10.0000	2.2578	
C:\GC-14\Data\2024\072524\072505.D	Calibration	3	x	1199	20.0000	1.2261	
C:\GC-14\Data\2024\072524\072506.D	Calibration	4	x	2276	50.0000	0.9162	
C:\GC-14\Data\2024\072524\072507.D	Calibration	5	x	3585	100.0000	0.7170	
C:\GC-14\Data\2024\072524\072508.D	Calibration	6	x	8116	250.0000	0.6648	
C:\GC-14\Data\2024\072524\072509.D	Calibration	7	x	12553	375.0000	0.6604	
C:\GC-14\Data\2024\072524\072510.D	Calibration	8	x	16807	500.0000	0.6764	
C:\GC-14\Data\2024\072524\072511.D	Calibration	9	x	34140	1000.0000	0.6664	
C:\GC-14\Data\2024\072524\072512.D	Calibration	10	x	87611	2500.0000	0.6633	

# Calibration Report

Batch Path	C:\GC-14\Data\2024\072524\QuantResults\PAH ICAL.batch.bin	Analyst Name	FA\GC14
Analysis Time	7/26/2024 11:06 AM	Reporter Name	FA\GC14
Report Time	7/26/2024 11:07:56 AM	Batch State	Processed
Last Calib Update	7/26/2024 11:06 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

**Benzyl Butyl phthalate %RSE = 25.1**

Benzyl Butyl phthalate - 10 Levels, 10 Levels Used, 10 Points, 10 Points Used, 0 QCs



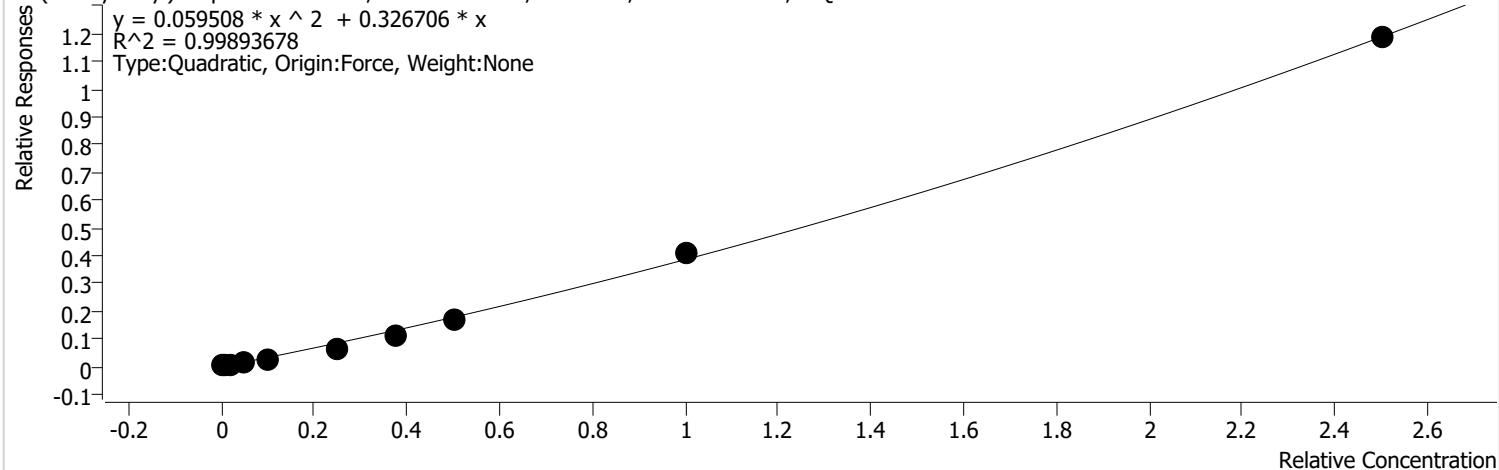
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
C:\GC-14\Data\2024\072524\072503.D	Calibration	1	x	175	10.0000	0.3626	
C:\GC-14\Data\2024\072524\072504.D	Calibration	2	x	285	20.0000	0.3005	
C:\GC-14\Data\2024\072524\072505.D	Calibration	3	x	589	40.0000	0.3010	
C:\GC-14\Data\2024\072524\072506.D	Calibration	4	x	1452	100.0000	0.2923	
C:\GC-14\Data\2024\072524\072507.D	Calibration	5	x	3089	200.0000	0.3089	
C:\GC-14\Data\2024\072524\072508.D	Calibration	6	x	8525	500.0000	0.3491	
C:\GC-14\Data\2024\072524\072509.D	Calibration	7	x	15030	750.0000	0.3953	
C:\GC-14\Data\2024\072524\072510.D	Calibration	8	x	21855	1000.0000	0.4398	
C:\GC-14\Data\2024\072524\072511.D	Calibration	9	x	53211	2000.0000	0.5193	
C:\GC-14\Data\2024\072524\072512.D	Calibration	10	x	154663	5000.0000	0.5854	

# Calibration Report

Batch Path	C:\GC-14\Data\2024\072524\QuantResults\PAH ICAL.batch.bin	Analyst Name	FA\GC14
Analysis Time	7/26/2024 11:06 AM	Reporter Name	FA\GC14
Report Time	7/26/2024 11:07:57 AM	Batch State	Processed
Last Calib Update	7/26/2024 11:06 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

**bis (2-Ethylhexyl) adipate %RSE = 22.6**

bis (2-Ethylhexyl) adipate - 10 Levels, 10 Levels Used, 10 Points, 10 Points Used, 0 QCs

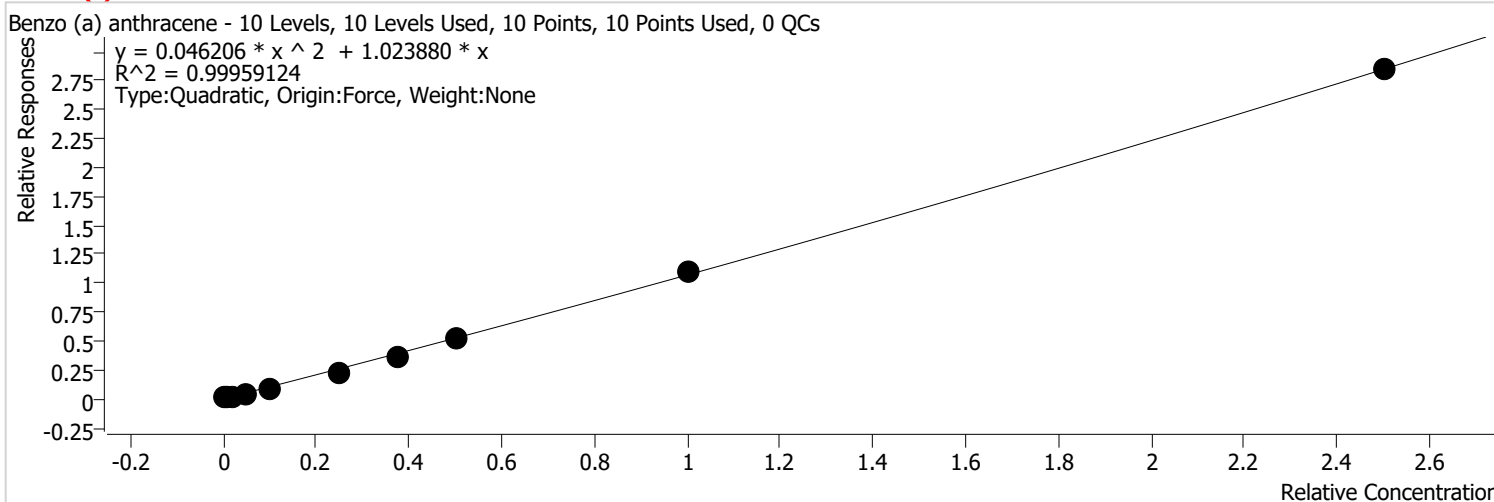


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
C:\GC-14\Data\2024\072524\072503.D	Calibration	1	x	168	10.0000	0.3476	
C:\GC-14\Data\2024\072524\072504.D	Calibration	2	x	239	20.0000	0.2511	
C:\GC-14\Data\2024\072524\072505.D	Calibration	3	x	471	40.0000	0.2406	
C:\GC-14\Data\2024\072524\072506.D	Calibration	4	x	1122	100.0000	0.2257	
C:\GC-14\Data\2024\072524\072507.D	Calibration	5	x	2404	200.0000	0.2404	
C:\GC-14\Data\2024\072524\072508.D	Calibration	6	x	6689	500.0000	0.2739	
C:\GC-14\Data\2024\072524\072509.D	Calibration	7	x	11577	750.0000	0.3045	
C:\GC-14\Data\2024\072524\072510.D	Calibration	8	x	16829	1000.0000	0.3387	
C:\GC-14\Data\2024\072524\072511.D	Calibration	9	x	41941	2000.0000	0.4093	
C:\GC-14\Data\2024\072524\072512.D	Calibration	10	x	125320	5000.0000	0.4744	

# Calibration Report

Batch Path	C:\GC-14\Data\2024\072524\QuantResults\PAH ICAL.batch.bin	Analyst Name	FA\GC14
Analysis Time	7/26/2024 11:06 AM	Reporter Name	FA\GC14
Report Time	7/26/2024 11:07:57 AM	Batch State	Processed
Last Calib Update	7/26/2024 11:06 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

**Benzo (a) anthracene %RSE = 17.4**



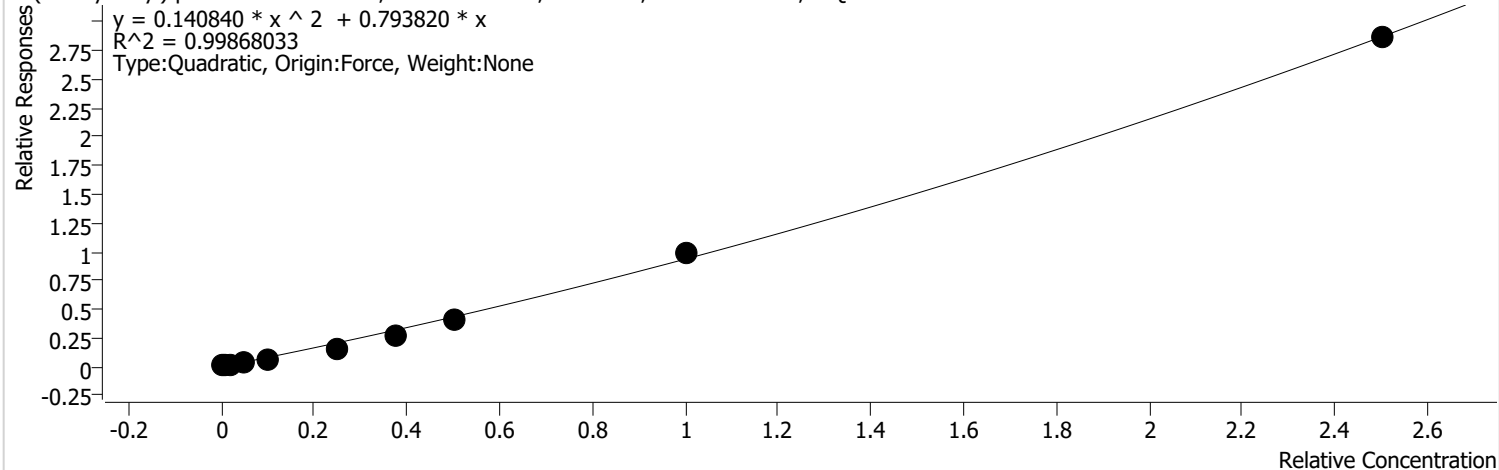
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
C:\GC-14\Data\2024\072524\072503.D	Calibration	1	x	619	10.0000	1.2820	
C:\GC-14\Data\2024\072524\072504.D	Calibration	2	x	920	20.0000	0.9685	
C:\GC-14\Data\2024\072524\072505.D	Calibration	3	x	1700	40.0000	0.8689	
C:\GC-14\Data\2024\072524\072506.D	Calibration	4	x	3815	100.0000	0.7679	
C:\GC-14\Data\2024\072524\072507.D	Calibration	5	x	8155	200.0000	0.8155	
C:\GC-14\Data\2024\072524\072508.D	Calibration	6	x	22292	500.0000	0.9130	
C:\GC-14\Data\2024\072524\072509.D	Calibration	7	x	37290	750.0000	0.9808	
C:\GC-14\Data\2024\072524\072510.D	Calibration	8	x	52035	1000.0000	1.0471	
C:\GC-14\Data\2024\072524\072511.D	Calibration	9	x	112516	2000.0000	1.0981	
C:\GC-14\Data\2024\072524\072512.D	Calibration	10	x	300629	5000.0000	1.1379	

# Calibration Report

Batch Path	C:\GC-14\Data\2024\072524\QuantResults\PAH ICAL.batch.bin	Analyst Name	FA\GC14
Analysis Time	7/26/2024 11:06 AM	Reporter Name	FA\GC14
Report Time	7/26/2024 11:07:57 AM	Batch State	Processed
Last Calib Update	7/26/2024 11:06 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

**bis(2-Ethylhexyl) phthalate %RSE = 24.0**

bis(2-Ethylhexyl) phthalate - 10 Levels, 10 Levels Used, 10 Points, 10 Points Used, 0 QCs

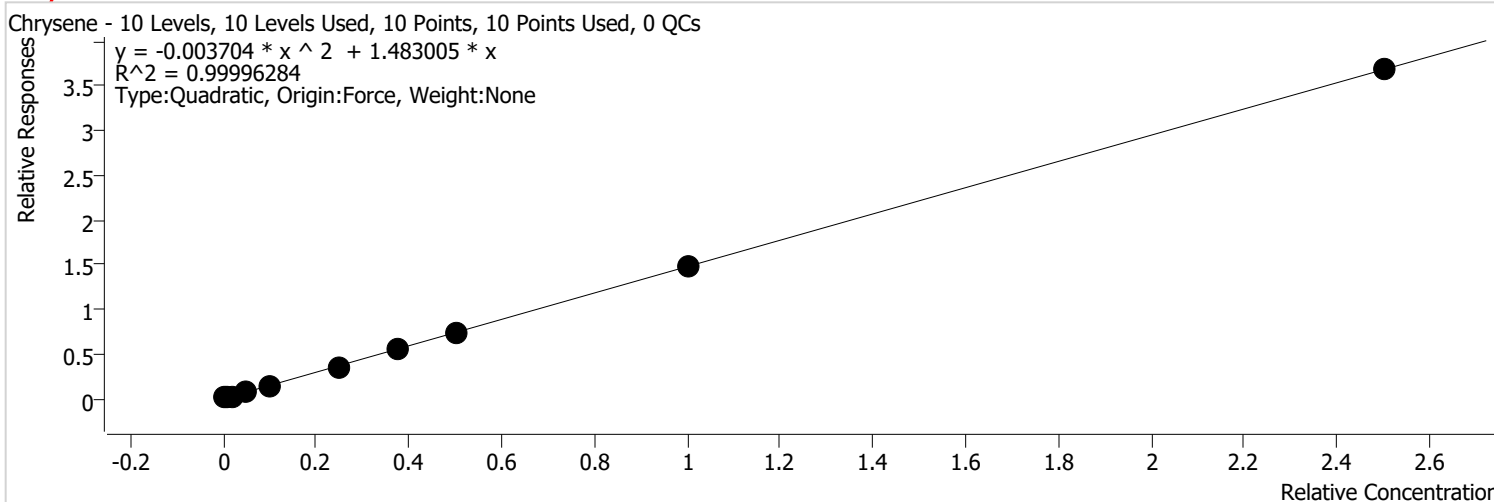


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
C:\GC-14\Data\2024\072524\072503.D	Calibration	1	x	263	10.0000	0.7886	
C:\GC-14\Data\2024\072524\072504.D	Calibration	2	x	388	20.0000	0.5901	
C:\GC-14\Data\2024\072524\072505.D	Calibration	3	x	767	40.0000	0.5681	
C:\GC-14\Data\2024\072524\072506.D	Calibration	4	x	1862	100.0000	0.5426	
C:\GC-14\Data\2024\072524\072507.D	Calibration	5	x	4012	200.0000	0.5713	
C:\GC-14\Data\2024\072524\072508.D	Calibration	6	x	11275	500.0000	0.6445	
C:\GC-14\Data\2024\072524\072509.D	Calibration	7	x	19947	750.0000	0.7290	
C:\GC-14\Data\2024\072524\072510.D	Calibration	8	x	29592	1000.0000	0.8143	
C:\GC-14\Data\2024\072524\072511.D	Calibration	9	x	74338	2000.0000	0.9971	
C:\GC-14\Data\2024\072524\072512.D	Calibration	10	x	219232	5000.0000	1.1429	

# Calibration Report

Batch Path	C:\GC-14\Data\2024\072524\QuantResults\PAH ICAL.batch.bin	Analyst Name	FA\GC14
Analysis Time	7/26/2024 11:06 AM	Reporter Name	FA\GC14
Report Time	7/26/2024 11:07:57 AM	Batch State	Processed
Last Calib Update	7/26/2024 11:06 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

**Chrysene %RSE = 4.9**

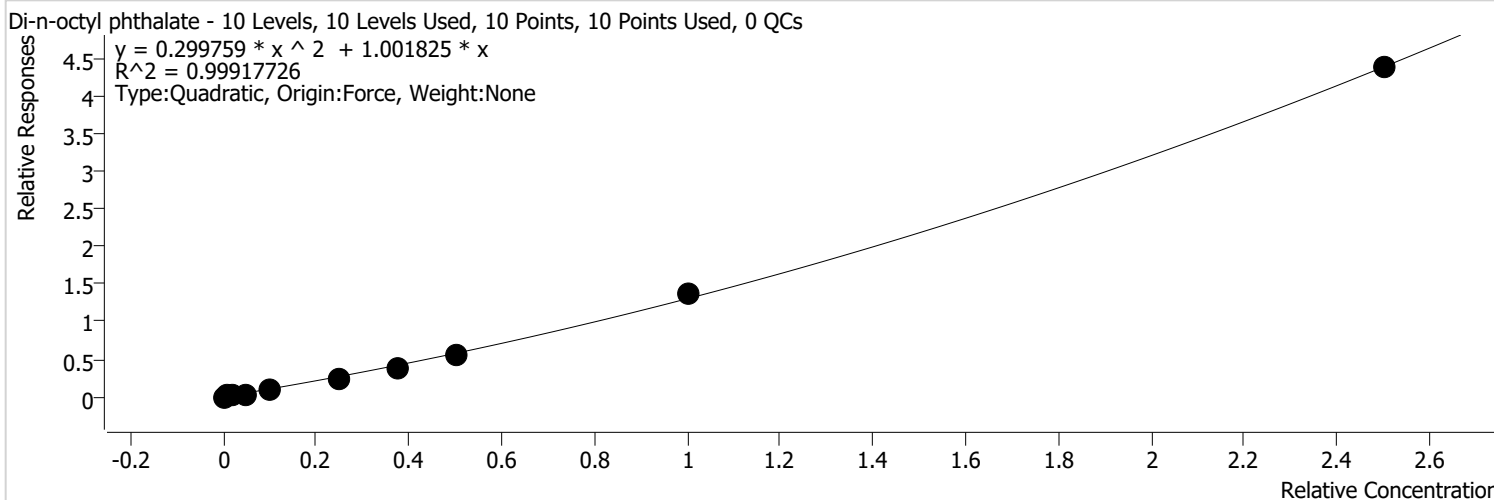


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
C:\GC-14\Data\2024\072524\072503.D	Calibration	1	x	549	10.0000	1.6472	
C:\GC-14\Data\2024\072524\072504.D	Calibration	2	x	958	20.0000	1.4571	
C:\GC-14\Data\2024\072524\072505.D	Calibration	3	x	1962	40.0000	1.4533	
C:\GC-14\Data\2024\072524\072506.D	Calibration	4	x	4896	100.0000	1.4264	
C:\GC-14\Data\2024\072524\072507.D	Calibration	5	x	10148	200.0000	1.4452	
C:\GC-14\Data\2024\072524\072508.D	Calibration	6	x	25147	500.0000	1.4375	
C:\GC-14\Data\2024\072524\072509.D	Calibration	7	x	39695	750.0000	1.4507	
C:\GC-14\Data\2024\072524\072510.D	Calibration	8	x	53705	1000.0000	1.4778	
C:\GC-14\Data\2024\072524\072511.D	Calibration	9	x	111208	2000.0000	1.4916	
C:\GC-14\Data\2024\072524\072512.D	Calibration	10	x	282572	5000.0000	1.4731	

# Calibration Report

Batch Path	C:\GC-14\Data\2024\072524\QuantResults\PAH ICAL.batch.bin	Analyst Name	FA\GC14
Analysis Time	7/26/2024 11:06 AM	Reporter Name	FA\GC14
Report Time	7/26/2024 11:07:57 AM	Batch State	Processed
Last Calib Update	7/26/2024 11:06 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

**Di-n-octyl phthalate %RSE = 16.8**



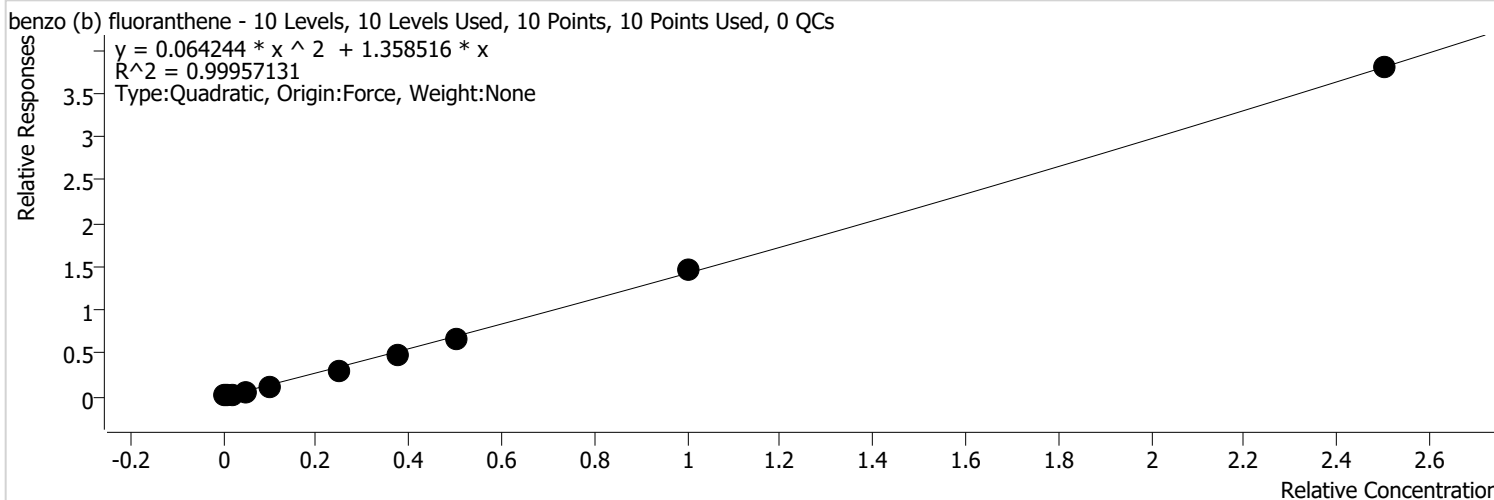
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
C:\GC-14\Data\2024\072524\072503.D	Calibration	1	x	320	10.0000	0.9596	
C:\GC-14\Data\2024\072524\072504.D	Calibration	2	x	552	20.0000	0.8390	
C:\GC-14\Data\2024\072524\072505.D	Calibration	3	x	1118	40.0000	0.8283	
C:\GC-14\Data\2024\072524\072506.D	Calibration	4	x	2720	100.0000	0.7925	
C:\GC-14\Data\2024\072524\072507.D	Calibration	5	x	5751	200.0000	0.8190	
C:\GC-14\Data\2024\072524\072508.D	Calibration	6	x	15441	500.0000	0.8827	
C:\GC-14\Data\2024\072524\072509.D	Calibration	7	x	26380	750.0000	0.9641	
C:\GC-14\Data\2024\072524\072510.D	Calibration	8	x	39134	1000.0000	1.0769	
C:\GC-14\Data\2024\072524\072511.D	Calibration	9	x	102821	2000.0000	1.3791	
C:\GC-14\Data\2024\072524\072512.D	Calibration	10	x	335214	5000.0000	1.7476	



# Calibration Report

Batch Path	C:\GC-14\Data\2024\072524\QuantResults\PAH ICAL.batch.bin	Analyst Name	FA\GC14
Analysis Time	7/26/2024 11:06 AM	Reporter Name	FA\GC14
Report Time	7/26/2024 11:07:57 AM	Batch State	Processed
Last Calib Update	7/26/2024 11:06 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

**benzo (b) fluoranthene %RSE = 19.1**

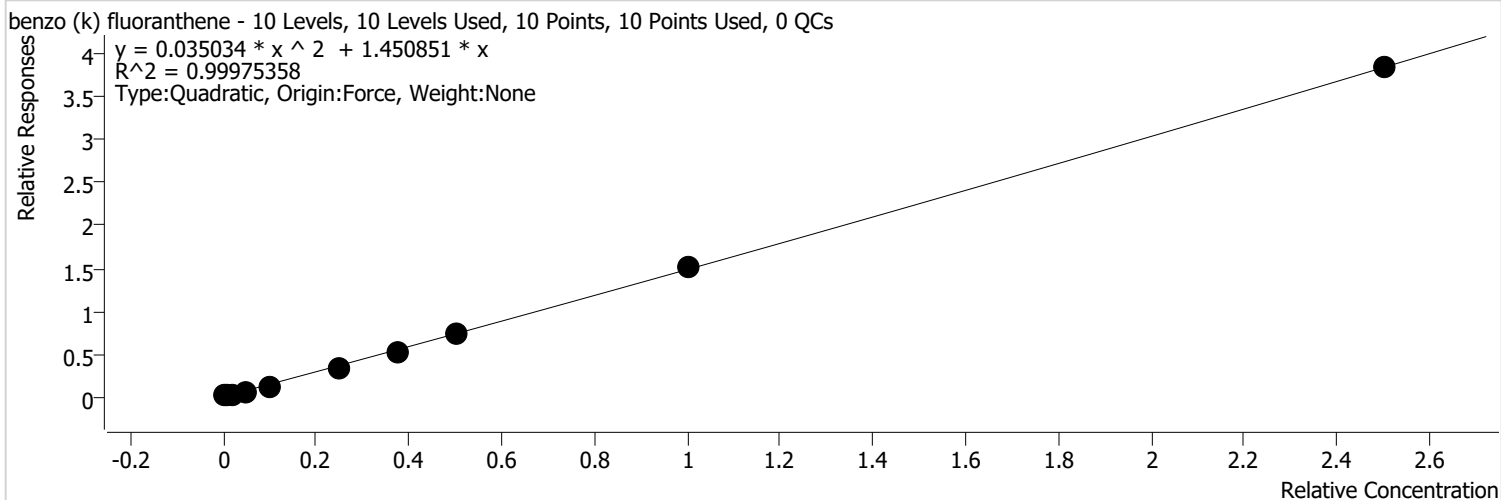


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
C:\GC-14\Data\2024\072524\072503.D	Calibration	1	x	378	10.0000	1.1342	
C:\GC-14\Data\2024\072524\072504.D	Calibration	2	x	661	20.0000	1.0054	
C:\GC-14\Data\2024\072524\072505.D	Calibration	3	x	1372	40.0000	1.0163	
C:\GC-14\Data\2024\072524\072506.D	Calibration	4	x	3592	100.0000	1.0465	
C:\GC-14\Data\2024\072524\072507.D	Calibration	5	x	7966	200.0000	1.1345	
C:\GC-14\Data\2024\072524\072508.D	Calibration	6	x	21700	500.0000	1.2405	
C:\GC-14\Data\2024\072524\072509.D	Calibration	7	x	35922	750.0000	1.3128	
C:\GC-14\Data\2024\072524\072510.D	Calibration	8	x	48900	1000.0000	1.3456	
C:\GC-14\Data\2024\072524\072511.D	Calibration	9	x	109562	2000.0000	1.4695	
C:\GC-14\Data\2024\072524\072512.D	Calibration	10	x	290963	5000.0000	1.5169	

# Calibration Report

Batch Path	C:\GC-14\Data\2024\072524\QuantResults\PAH ICAL.batch.bin	Analyst Name	FA\GC14
Analysis Time	7/26/2024 11:06 AM	Reporter Name	FA\GC14
Report Time	7/26/2024 11:07:57 AM	Batch State	Processed
Last Calib Update	7/26/2024 11:06 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

**benzo (k) fluoranthene %RSE = 17.4**



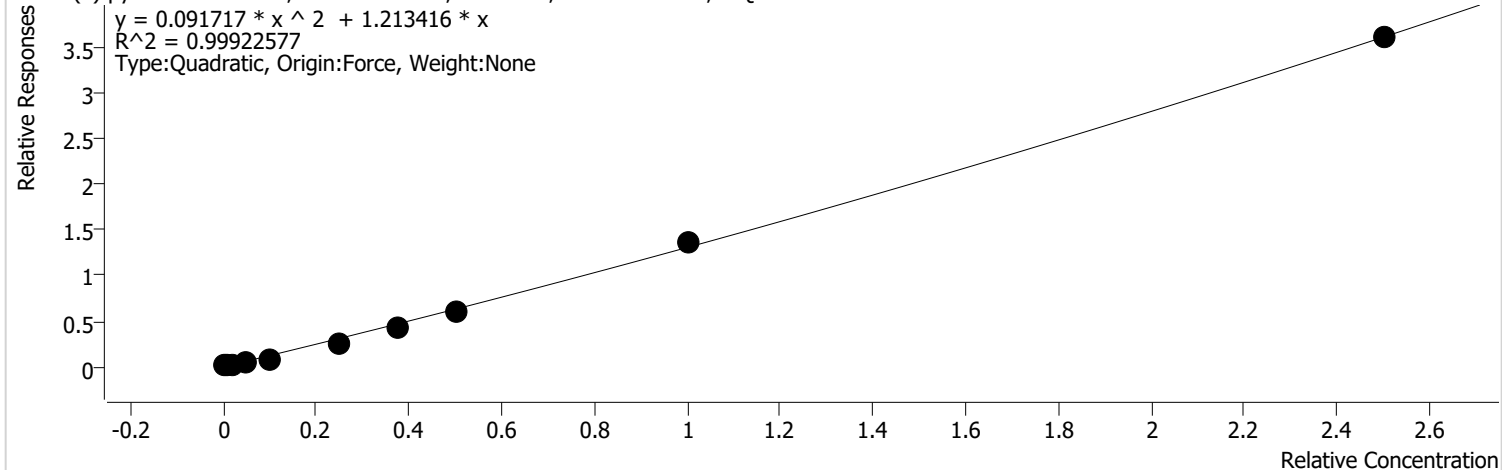
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
C:\GC-14\Data\2024\072524\072503.D	Calibration	1	x	455	10.0000	1.3652	
C:\GC-14\Data\2024\072524\072504.D	Calibration	2	x	753	20.0000	1.1453	
C:\GC-14\Data\2024\072524\072505.D	Calibration	3	x	1487	40.0000	1.1015	
C:\GC-14\Data\2024\072524\072506.D	Calibration	4	x	3785	100.0000	1.1027	
C:\GC-14\Data\2024\072524\072507.D	Calibration	5	x	8194	200.0000	1.1670	
C:\GC-14\Data\2024\072524\072508.D	Calibration	6	x	23386	500.0000	1.3369	
C:\GC-14\Data\2024\072524\072509.D	Calibration	7	x	38518	750.0000	1.4077	
C:\GC-14\Data\2024\072524\072510.D	Calibration	8	x	54384	1000.0000	1.4965	
C:\GC-14\Data\2024\072524\072511.D	Calibration	9	x	112248	2000.0000	1.5055	
C:\GC-14\Data\2024\072524\072512.D	Calibration	10	x	294877	5000.0000	1.5373	

# Calibration Report

Batch Path	C:\GC-14\Data\2024\072524\QuantResults\PAH ICAL.batch.bin	Analyst Name	FA\GC14
Analysis Time	7/26/2024 11:06 AM	Reporter Name	FA\GC14
Report Time	7/26/2024 11:07:57 AM	Batch State	Processed
Last Calib Update	7/26/2024 11:06 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

**benzo (a) pyrene %RSE = 23.2**

benzo (a) pyrene - 10 Levels, 10 Levels Used, 10 Points, 10 Points Used, 0 QCs

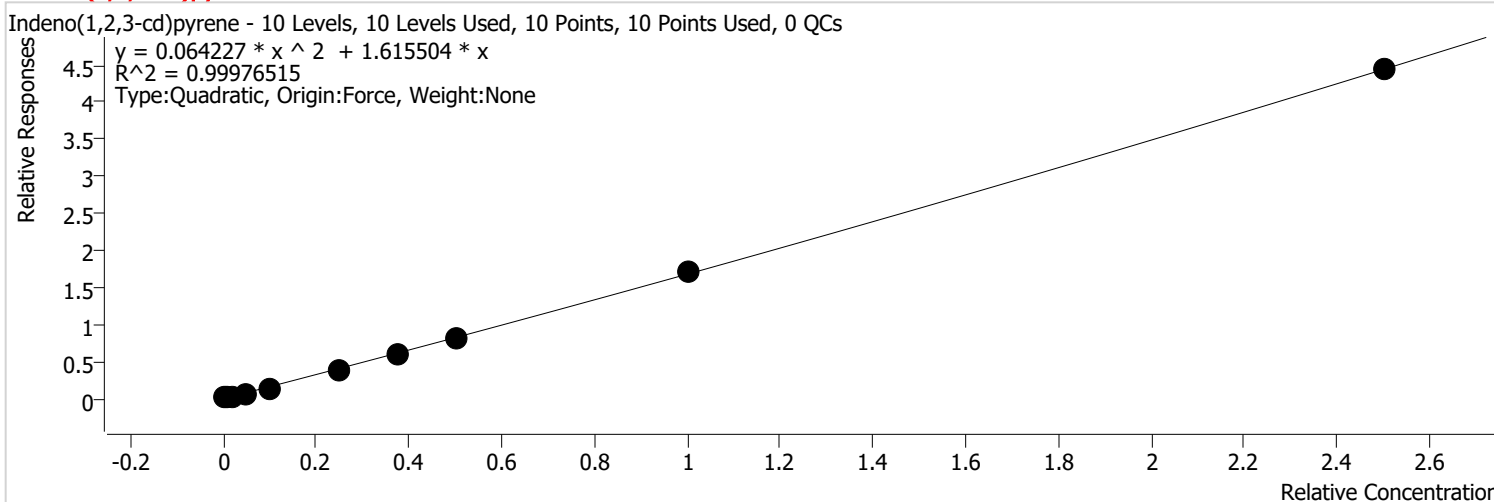


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
C:\GC-14\Data\2024\072524\072503.D	Calibration	1	x	346	10.0000	1.0392	
C:\GC-14\Data\2024\072524\072504.D	Calibration	2	x	557	20.0000	0.8473	
C:\GC-14\Data\2024\072524\072505.D	Calibration	3	x	1184	40.0000	0.8773	
C:\GC-14\Data\2024\072524\072506.D	Calibration	4	x	2901	100.0000	0.8452	
C:\GC-14\Data\2024\072524\072507.D	Calibration	5	x	6398	200.0000	0.9111	
C:\GC-14\Data\2024\072524\072508.D	Calibration	6	x	18311	500.0000	1.0467	
C:\GC-14\Data\2024\072524\072509.D	Calibration	7	x	31364	750.0000	1.1463	
C:\GC-14\Data\2024\072524\072510.D	Calibration	8	x	44399	1000.0000	1.2217	
C:\GC-14\Data\2024\072524\072511.D	Calibration	9	x	101580	2000.0000	1.3625	
C:\GC-14\Data\2024\072524\072512.D	Calibration	10	x	276196	5000.0000	1.4399	

# Calibration Report

Batch Path	C:\GC-14\Data\2024\072524\QuantResults\PAH ICAL.batch.bin	Analyst Name	FA\GC14
Analysis Time	7/26/2024 11:06 AM	Reporter Name	FA\GC14
Report Time	7/26/2024 11:07:57 AM	Batch State	Processed
Last Calib Update	7/26/2024 11:06 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

**Indeno(1,2,3-cd)pyrene %RSE = 15.7**



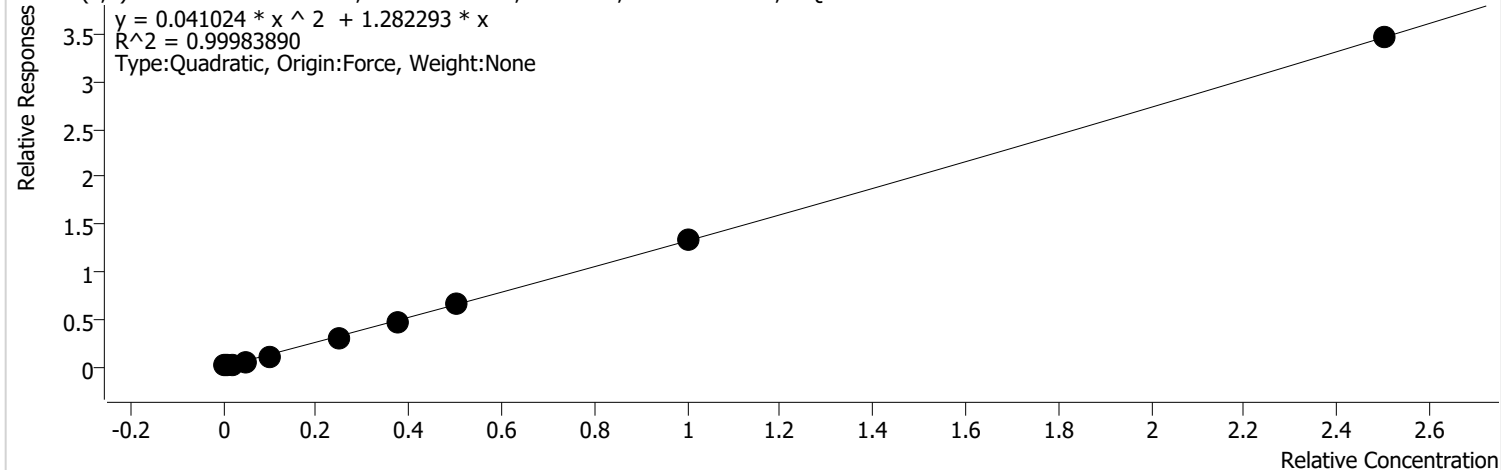
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
C:\GC-14\Data\2024\072524\072503.D	Calibration	1	x	541	10.0000	1.4540	
C:\GC-14\Data\2024\072524\072504.D	Calibration	2	x	925	20.0000	1.2665	
C:\GC-14\Data\2024\072524\072505.D	Calibration	3	x	1924	40.0000	1.2789	
C:\GC-14\Data\2024\072524\072506.D	Calibration	4	x	4875	100.0000	1.2876	
C:\GC-14\Data\2024\072524\072507.D	Calibration	5	x	10714	200.0000	1.3865	
C:\GC-14\Data\2024\072524\072508.D	Calibration	6	x	28578	500.0000	1.4928	
C:\GC-14\Data\2024\072524\072509.D	Calibration	7	x	46954	750.0000	1.5628	
C:\GC-14\Data\2024\072524\072510.D	Calibration	8	x	65014	1000.0000	1.6502	
C:\GC-14\Data\2024\072524\072511.D	Calibration	9	x	140606	2000.0000	1.7126	
C:\GC-14\Data\2024\072524\072512.D	Calibration	10	x	375123	5000.0000	1.7744	

# Calibration Report

Batch Path	C:\GC-14\Data\2024\072524\QuantResults\PAH ICAL.batch.bin	Analyst Name	FA\GC14
Analysis Time	7/26/2024 11:06 AM	Reporter Name	FA\GC14
Report Time	7/26/2024 11:07:57 AM	Batch State	Processed
Last Calib Update	7/26/2024 11:06 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

**Dibenz (a,h) anthracene %RSE = 14.2**

Dibenz (a,h) anthracene - 10 Levels, 10 Levels Used, 10 Points, 10 Points Used, 0 QCs



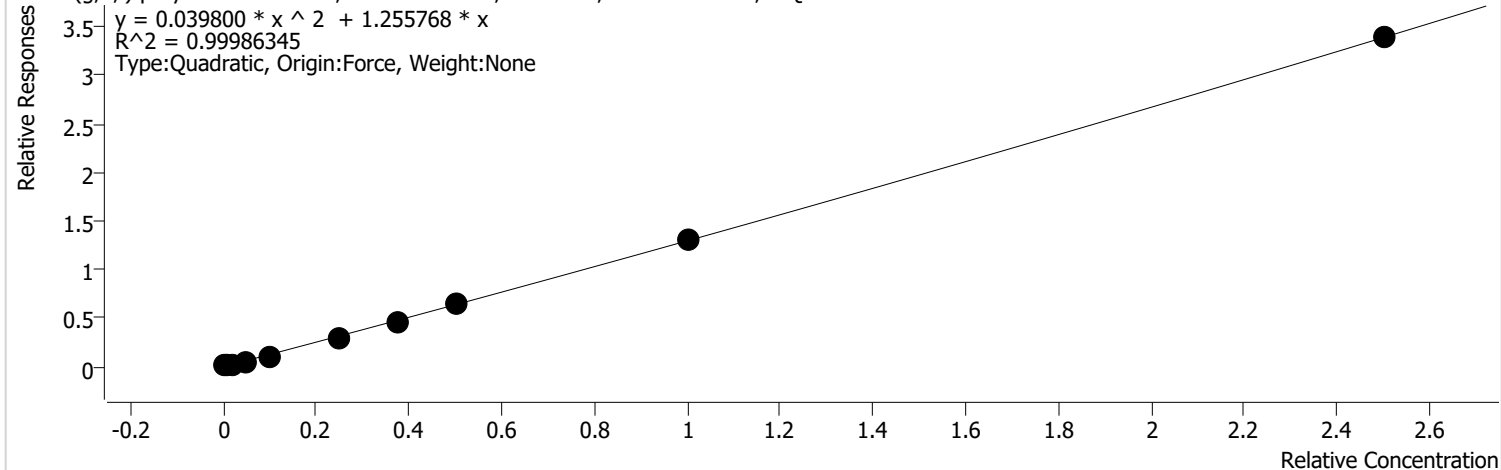
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
C:\GC-14\Data\2024\072524\072503.D	Calibration	1	x	424	10.0000	1.1395	
C:\GC-14\Data\2024\072524\072504.D	Calibration	2	x	761	20.0000	1.0417	
C:\GC-14\Data\2024\072524\072505.D	Calibration	3	x	1556	40.0000	1.0348	
C:\GC-14\Data\2024\072524\072506.D	Calibration	4	x	3971	100.0000	1.0489	
C:\GC-14\Data\2024\072524\072507.D	Calibration	5	x	8684	200.0000	1.1239	
C:\GC-14\Data\2024\072524\072508.D	Calibration	6	x	22994	500.0000	1.2011	
C:\GC-14\Data\2024\072524\072509.D	Calibration	7	x	37506	750.0000	1.2483	
C:\GC-14\Data\2024\072524\072510.D	Calibration	8	x	51774	1000.0000	1.3142	
C:\GC-14\Data\2024\072524\072511.D	Calibration	9	x	110156	2000.0000	1.3417	
C:\GC-14\Data\2024\072524\072512.D	Calibration	10	x	292565	5000.0000	1.3839	

# Calibration Report

Batch Path	C:\GC-14\Data\2024\072524\QuantResults\PAH ICAL.batch.bin	Analyst Name	FA\GC14
Analysis Time	7/26/2024 11:06 AM	Reporter Name	FA\GC14
Report Time	7/26/2024 11:07:57 AM	Batch State	Processed
Last Calib Update	7/26/2024 11:06 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

**Benzo (g,h,i) perylene %RSE = 9.2**

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\2024\072524\072503.D	Calibration	1	x	471	10.0000	1.2653	
C:\GC-14\Data\2024\072524\072504.D	Calibration	2	x	823	20.0000	1.1265	
C:\GC-14\Data\2024\072524\072505.D	Calibration	3	x	1660	40.0000	1.1040	
C:\GC-14\Data\2024\072524\072506.D	Calibration	4	x	4118	100.0000	1.0876	
C:\GC-14\Data\2024\072524\072507.D	Calibration	5	x	8759	200.0000	1.1336	
C:\GC-14\Data\2024\072524\072508.D	Calibration	6	x	22759	500.0000	1.1888	
C:\GC-14\Data\2024\072524\072509.D	Calibration	7	x	36602	750.0000	1.2183	
C:\GC-14\Data\2024\072524\072510.D	Calibration	8	x	50483	1000.0000	1.2814	
C:\GC-14\Data\2024\072524\072511.D	Calibration	9	x	107895	2000.0000	1.3141	
C:\GC-14\Data\2024\072524\072512.D	Calibration	10	x	286315	5000.0000	1.3543	

## Semivolatile Calibration

	Cal	ICV
Date: 7/25/24	8270 Megamix: 29691	8270 Megamix: 30153
Analyst: Ramiro Garcia	2,4-DNP: 30057	2,4-DNP: 26831
MeCl2: 8327	Benzoic Acid: 30095	Benzoic Acid: 30174
8270 Surrogate: 30166	Benzidines: SVOC ADDITIONS 30056	Benzidines: 28495
Internal Standard: 30178		TRPH: 26313

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 <del>40</del> 26.7/25	--	10	60 <del>50</del> 26.7/25	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	100 (2° SS)	--	10	110	1	

	Mega Mix (uL)	2,4-DNP (uL)	Benzoic Acid	8270 Surr	Benzidine	Final
2° Intermediate (cal)	1000	1000	1000	5000	<del>26.7/25</del>	100
2° Intermediate (SS)	100	100	100	500	50	10

SVOC ADDS: 1000 uL

TRPH: 100 uL

Signature and Date: \_\_\_\_\_

 7/25/24

Signature: AK

700 Building Calibration Template - SVOC v1.3

1 of 1

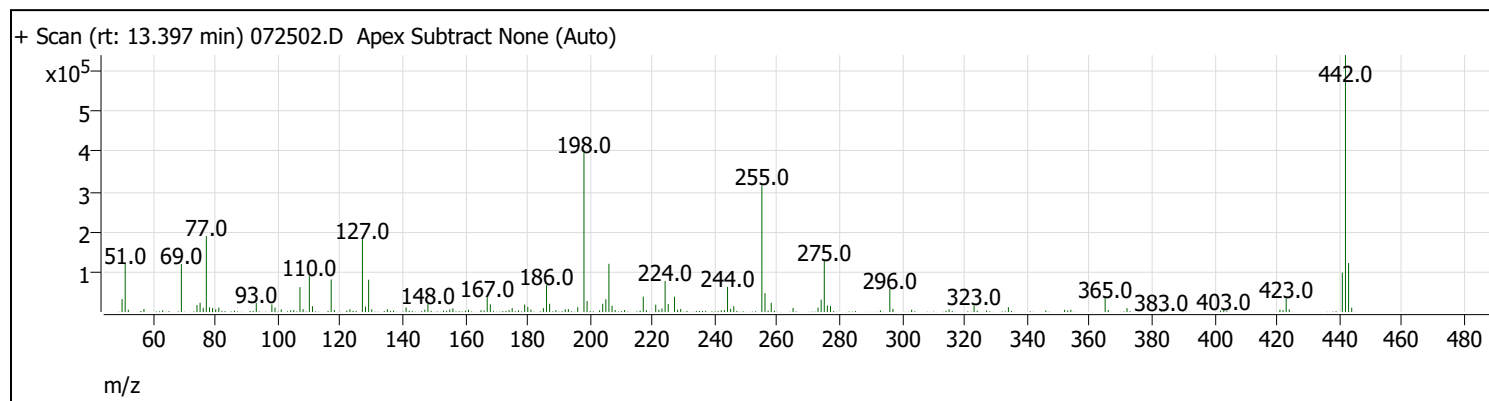
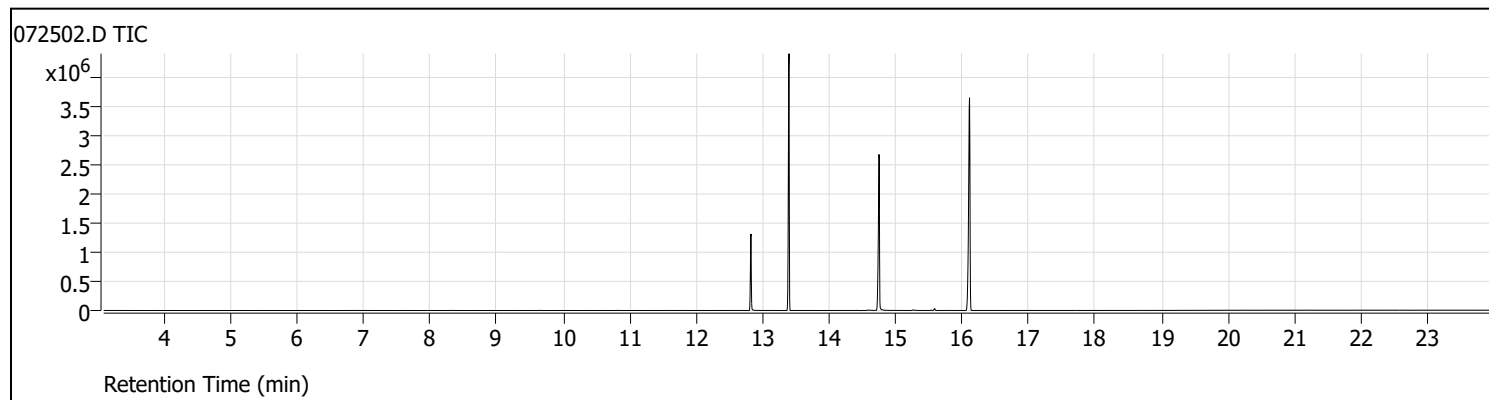
Official Approval: 7/6/2023

# Tunes



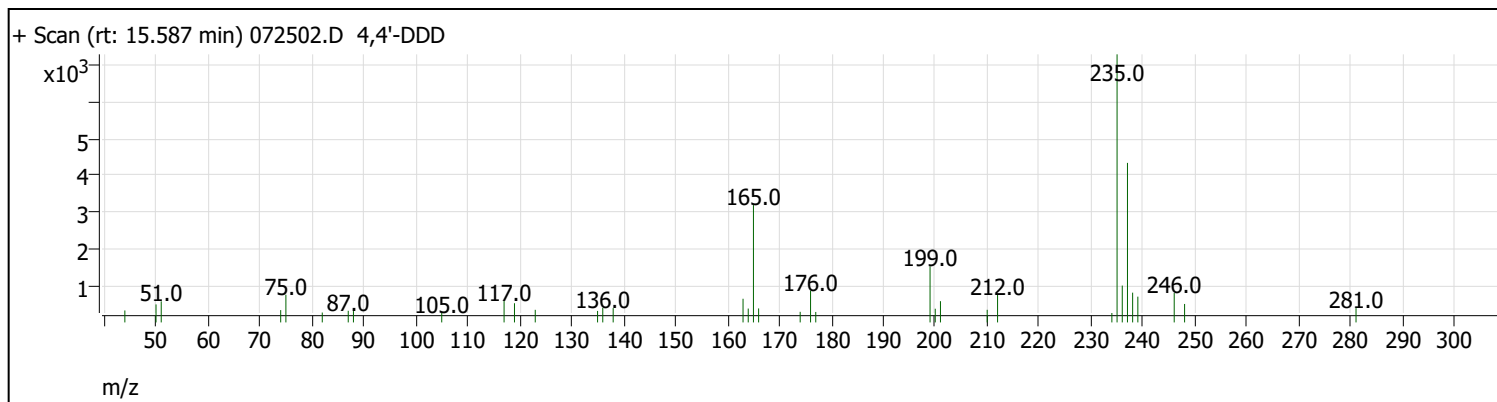
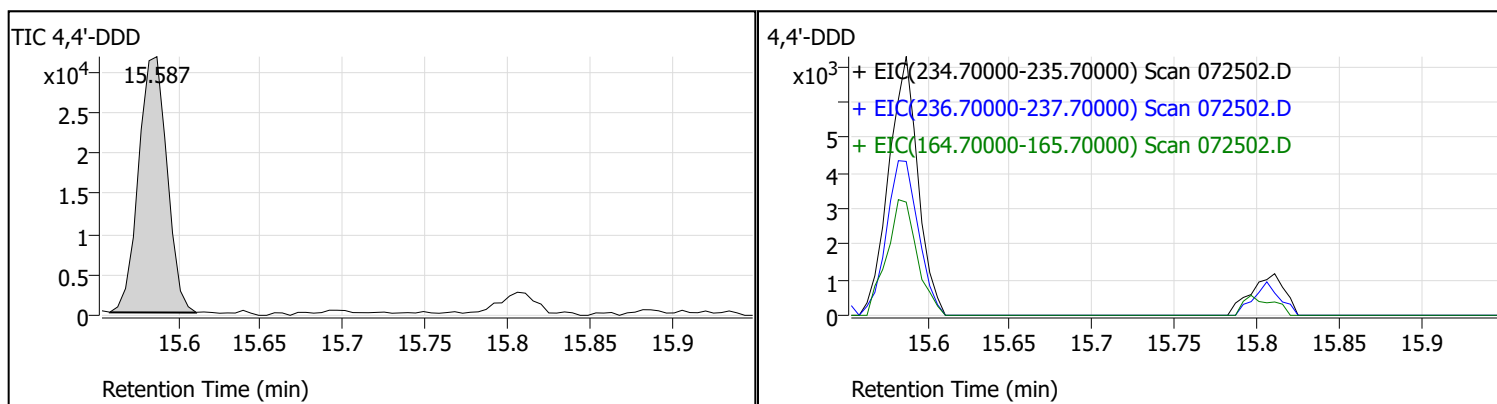
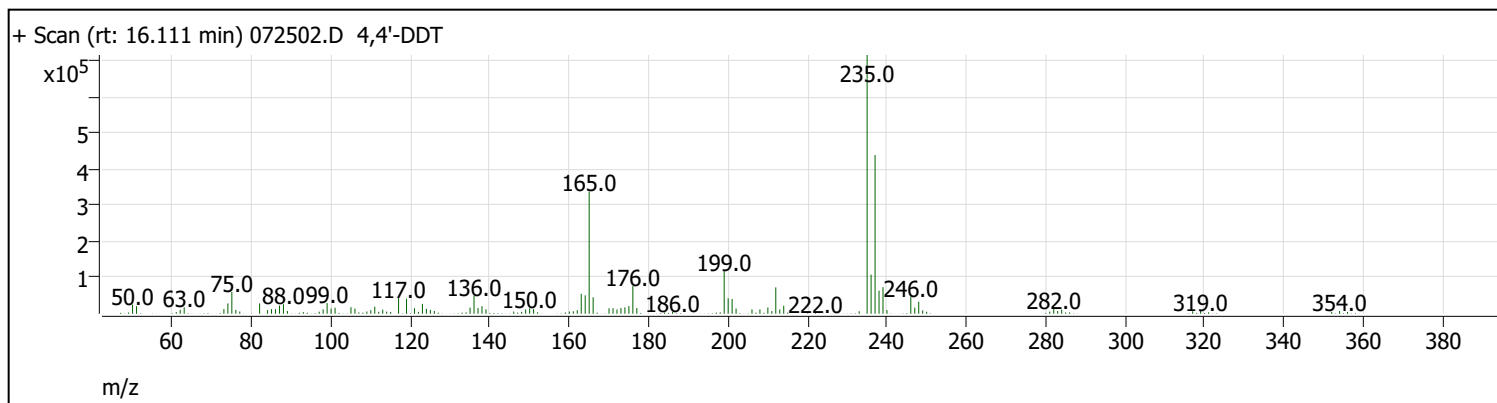
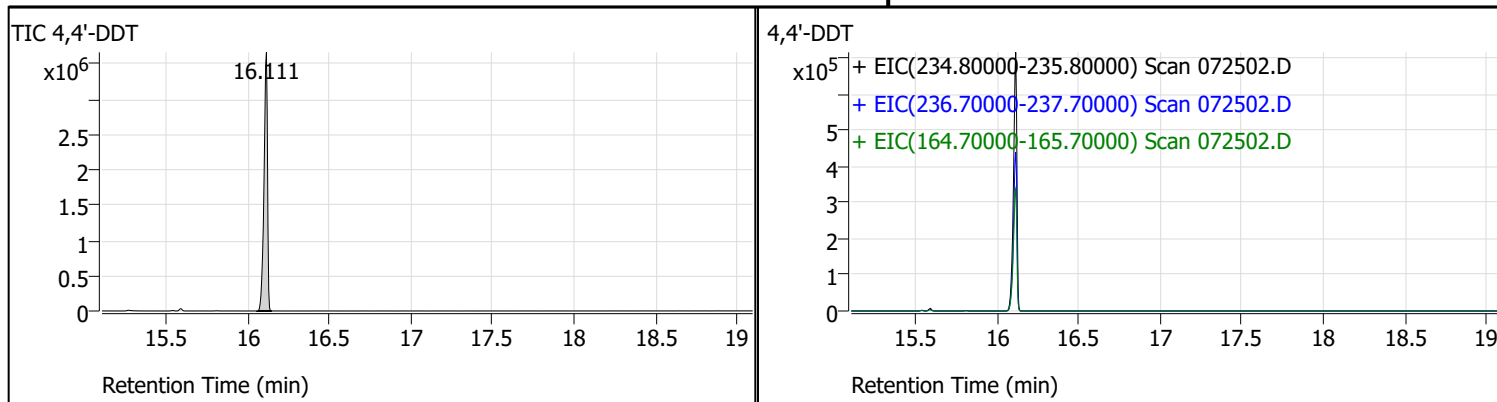
# Tune Evaluation Report

Data Path: C:\GC-14\Data\2024\072524\072502.D  
 Acq on: 7/25/2024 11:50:48 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	1799	Pass
70	69	0	2	0.6	737	Pass
197	198	0	2	0.0	0	Pass
198	198	100	100	100.0	395648	Pass
199	198	5	9	7.0	27624	Pass
365	442	1	100	5.6	35928	Pass
441	443	1E-10	150	80.7	98336	Pass
442	442	100	100	100.0	639552	Pass
443	442	15	24	19.1	121888	Pass
69	69	100	100	100.0	119960	Pass

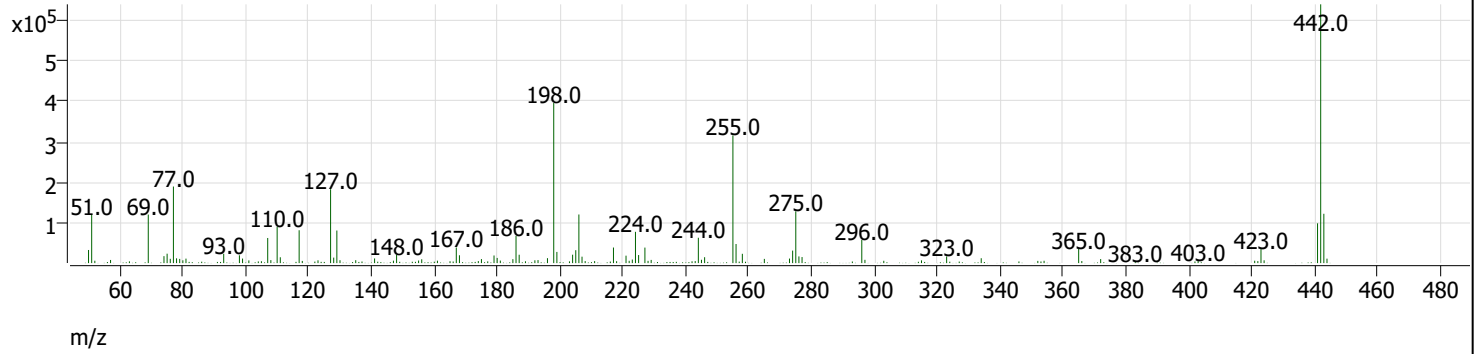
# Tune Evaluation Report



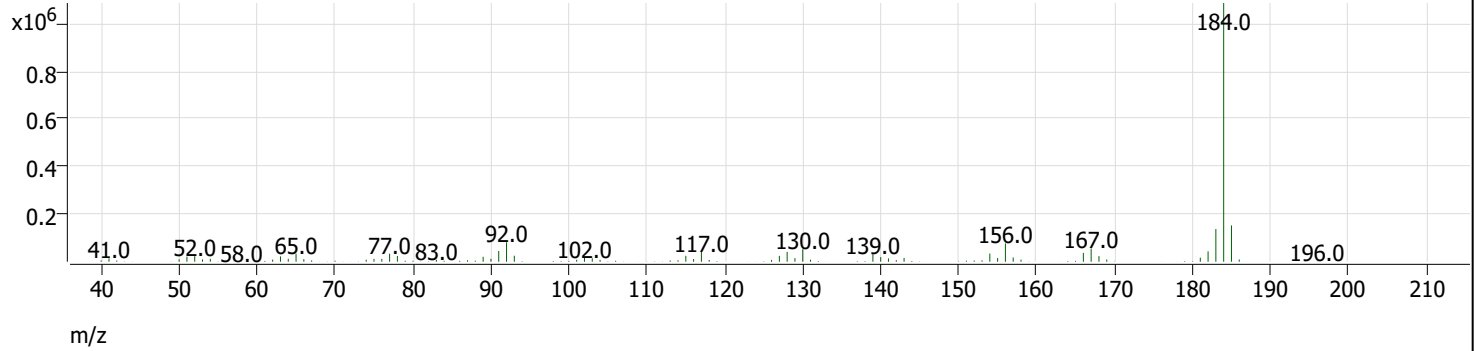
Compound Name	Expected RT	Observed RT	TIC Area	Breakdown %	Pass/Fail
4,4'-DDT	17.100	16.111	5418202	0.7	Pass
4,4'-DDD	15.750	15.587	37906		

# Tune Evaluation Report

+ Scan (rt: 13.397 min) 072502.D Pentachlorophenol



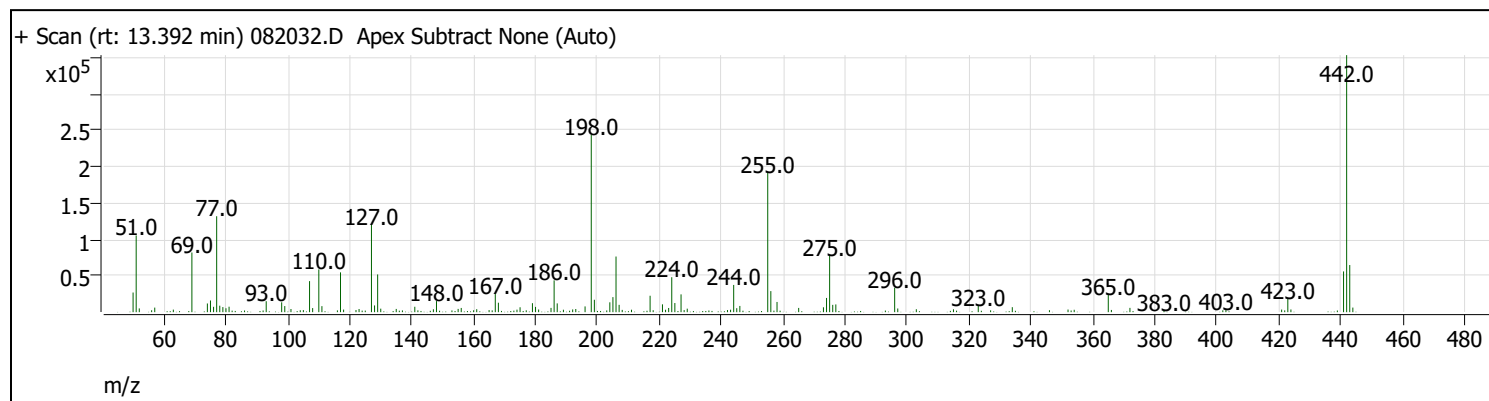
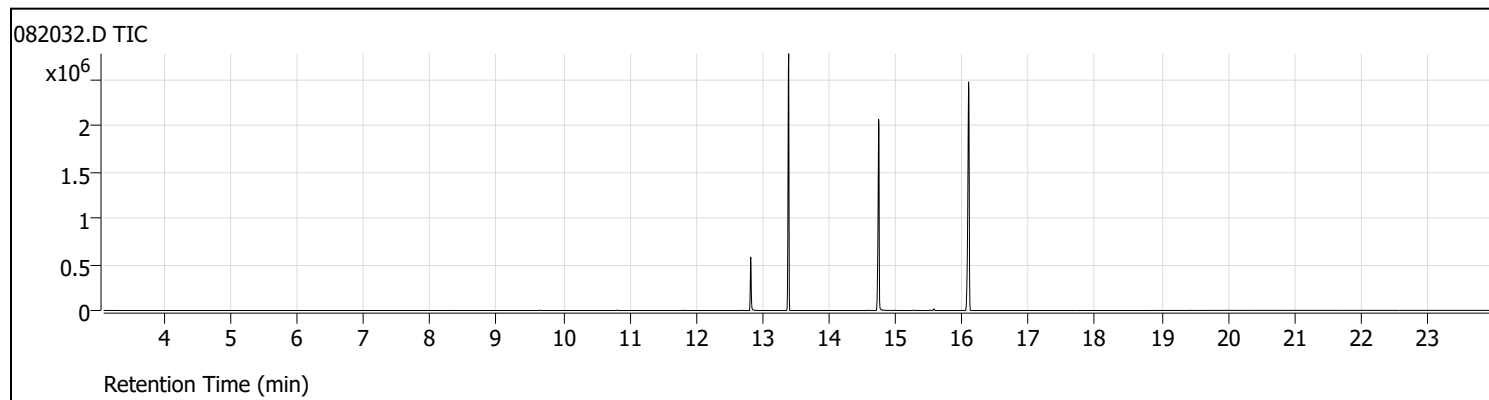
+ Scan (rt: 14.749 min) 072502.D Benzidine



Compound Name	Expected RT	Observed RT	Tailing Factor	PGF	Pass/Fail
Pentachlorophenol	13.420	13.397	0.5	8.4	Pass
Benzidine	15.500	14.749	0.6	6.9	Pass

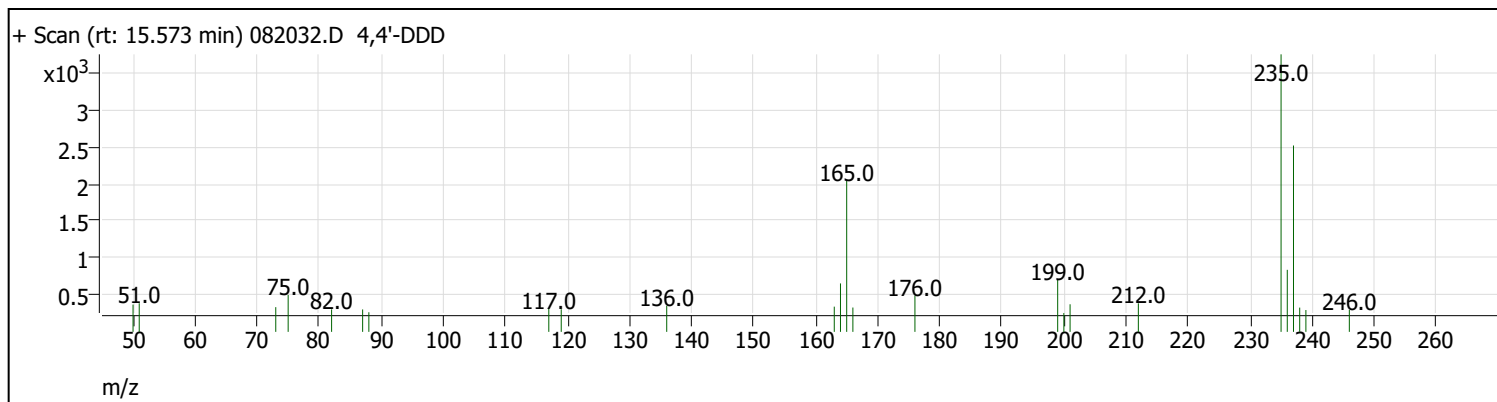
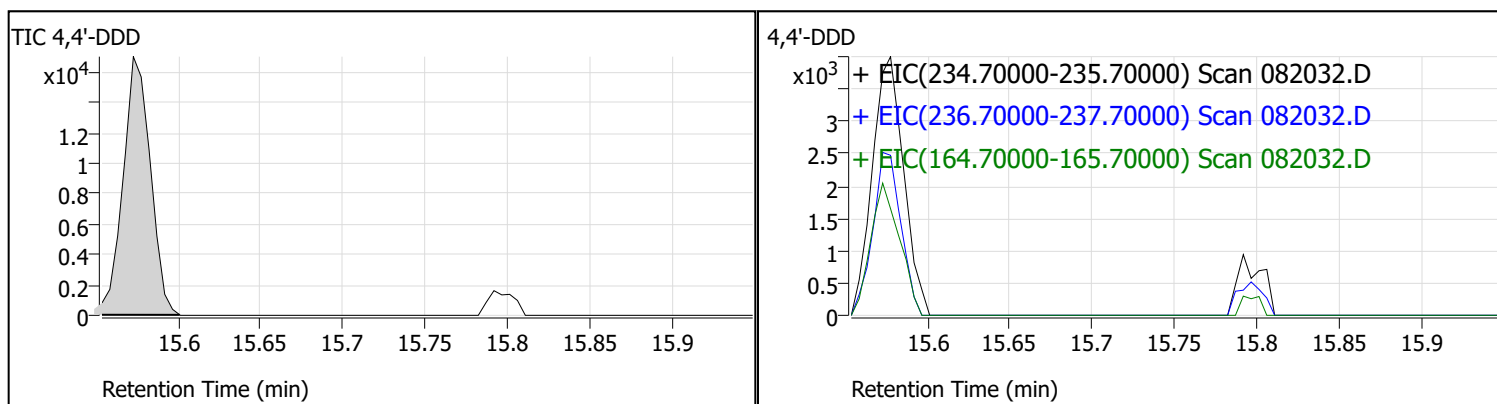
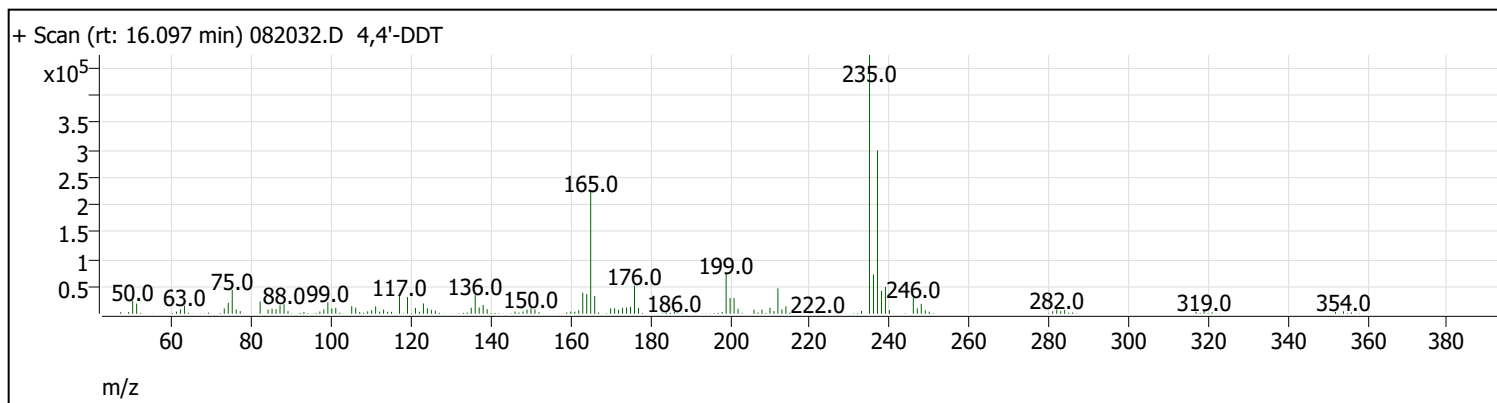
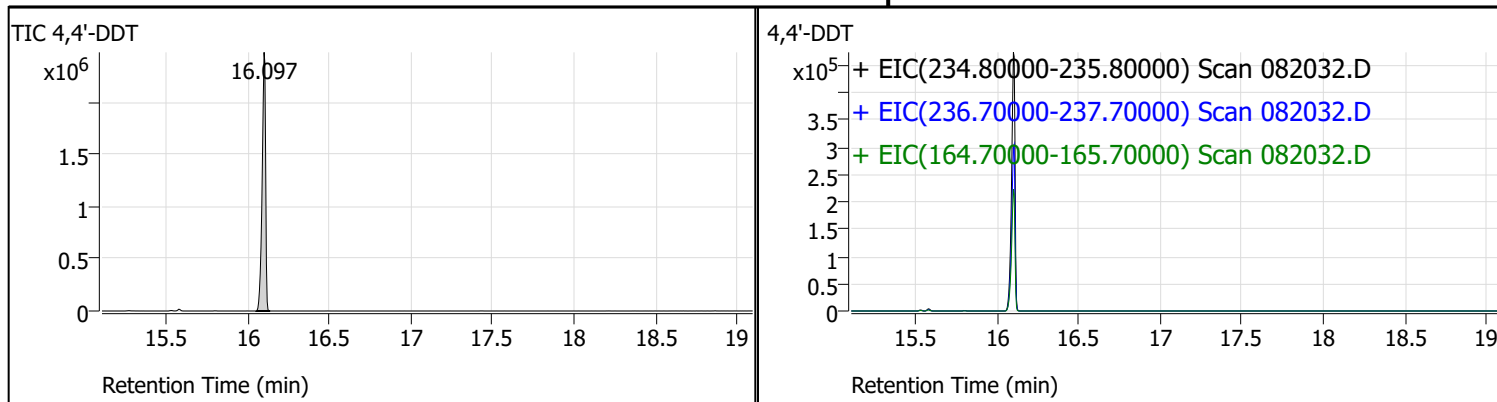
# Tune Evaluation Report

Data Path: Y:\GC-14\Data\2024\082024\082032.D  
 Acq on: 8/21/2024 2:33:47 AM  
 Operator: FA\GC14  
 Sample: tune  
 Inst Name: GC-14  
 ALS Vial: 1  
 Method: Y:\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	1502	Pass
70	69	0	2	0.7	579	Pass
197	198	0	2	0.0	0	Pass
198	198	100	100	100.0	243712	Pass
199	198	5	9	7.0	17024	Pass
365	442	1	100	6.8	23960	Pass
441	443	1E-10	150	86.5	56024	Pass
442	442	100	100	100.0	353280	Pass
443	442	15	24	18.3	64760	Pass
69	69	100	100	100.0	82000	Pass

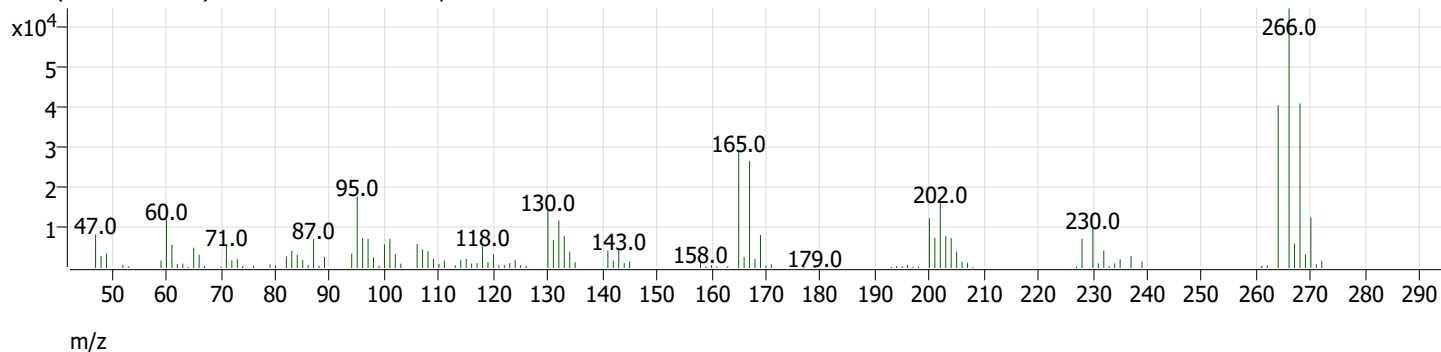
# Tune Evaluation Report



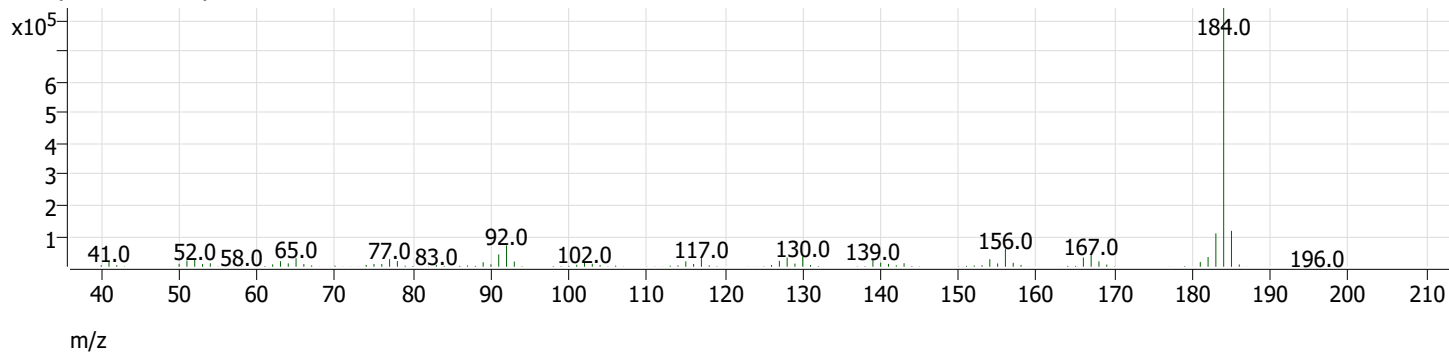
Compound Name	Expected RT	Observed RT	TIC Area	Breakdown %	Pass/Fail
4,4'-DDT	17.100	16.097	3646287	0.5	Pass
4,4'-DDD	15.750	15.573	19686		

# Tune Evaluation Report

+ Scan (rt: 12.820 min) 082032.D Pentachlorophenol



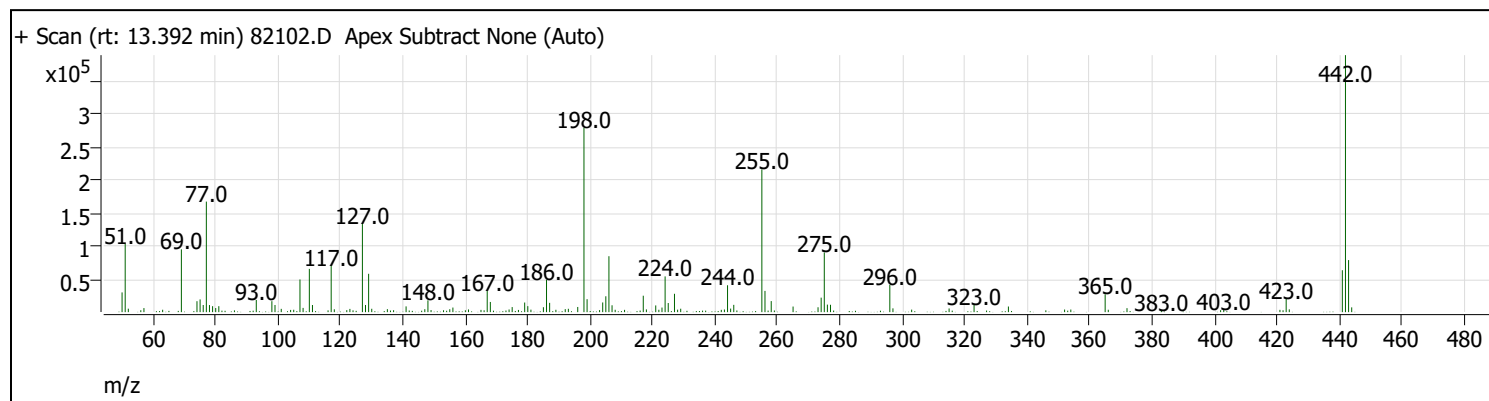
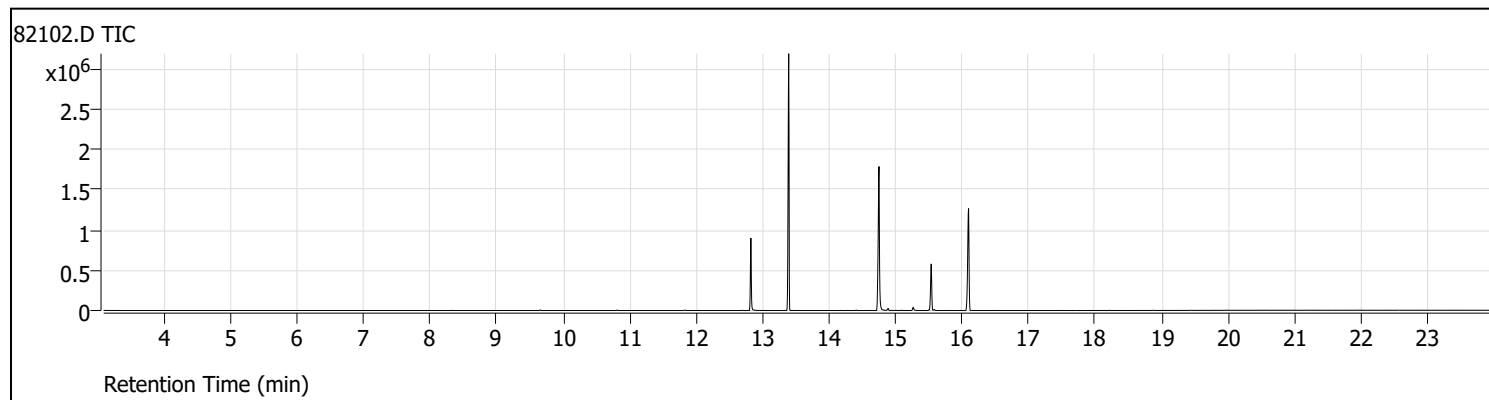
+ Scan (rt: 14.744 min) 082032.D Benzidine



Compound Name	Expected RT	Observed RT	Tailing Factor	PGF	Pass/Fail
Pentachlorophenol	13.350	12.820	1.2	3.7	Pass
Benzidine	15.500	14.744	0.6	3.0	Pass

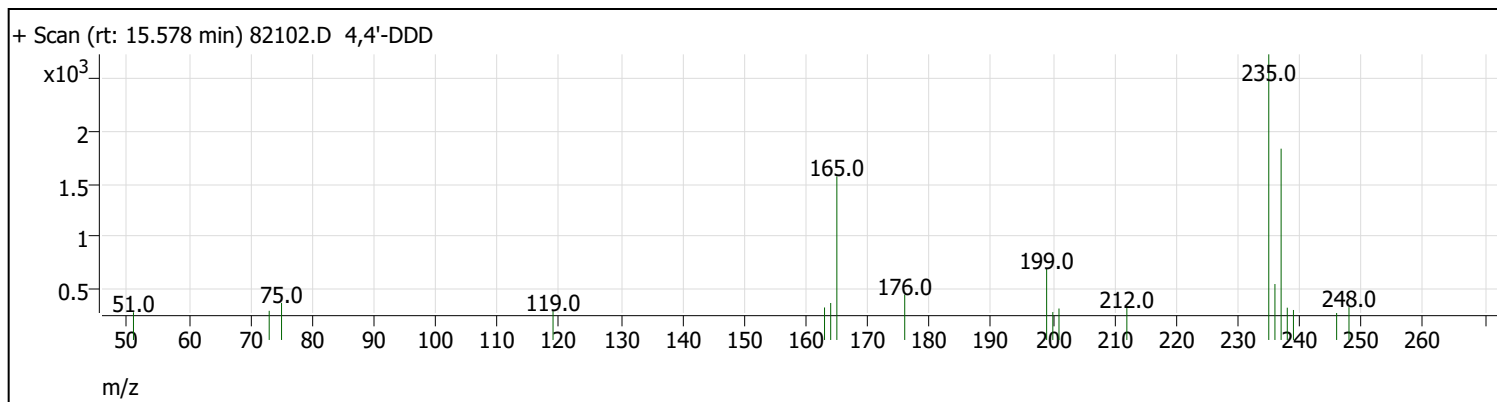
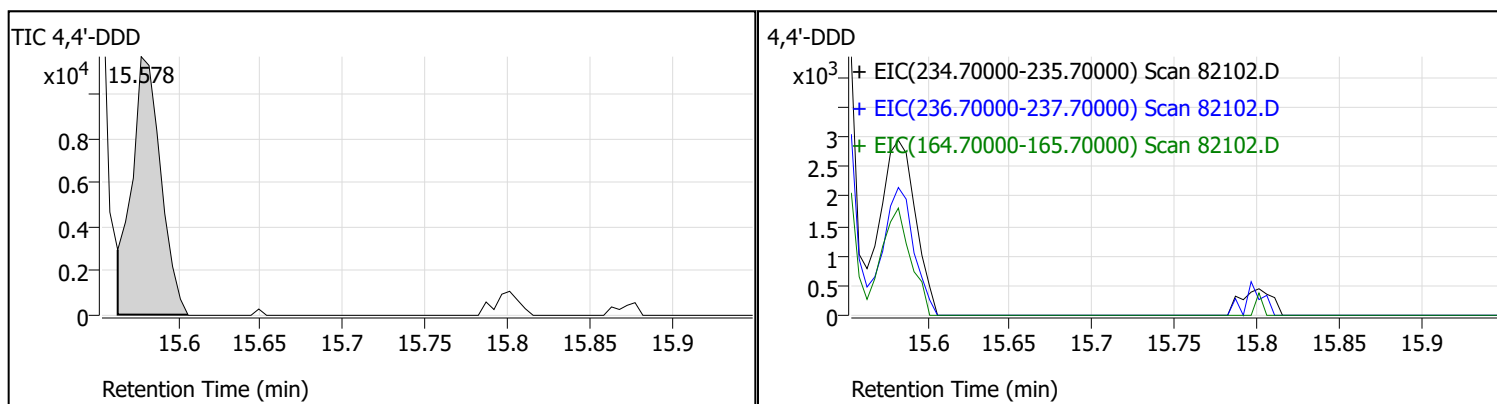
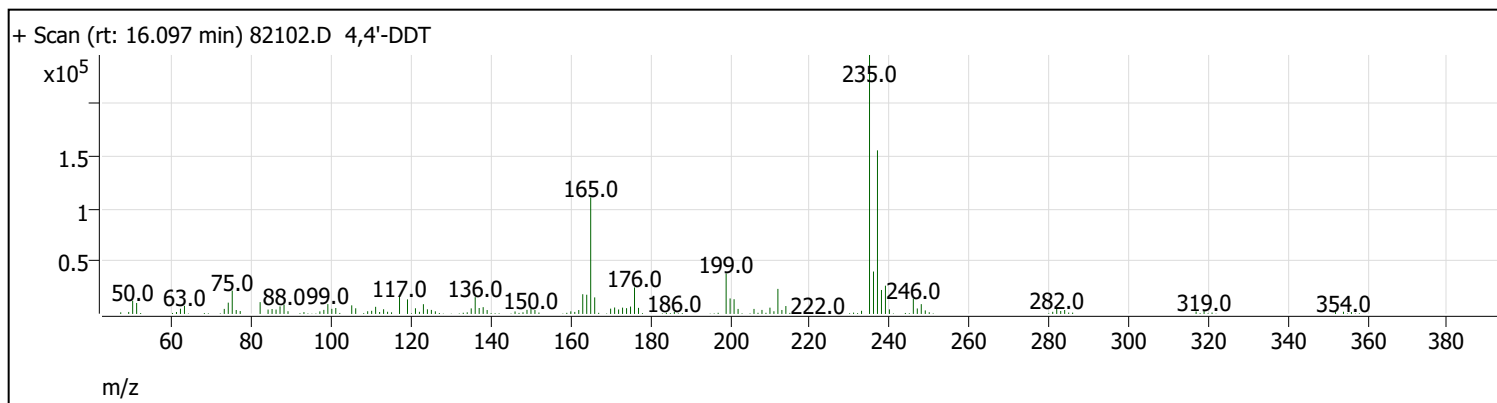
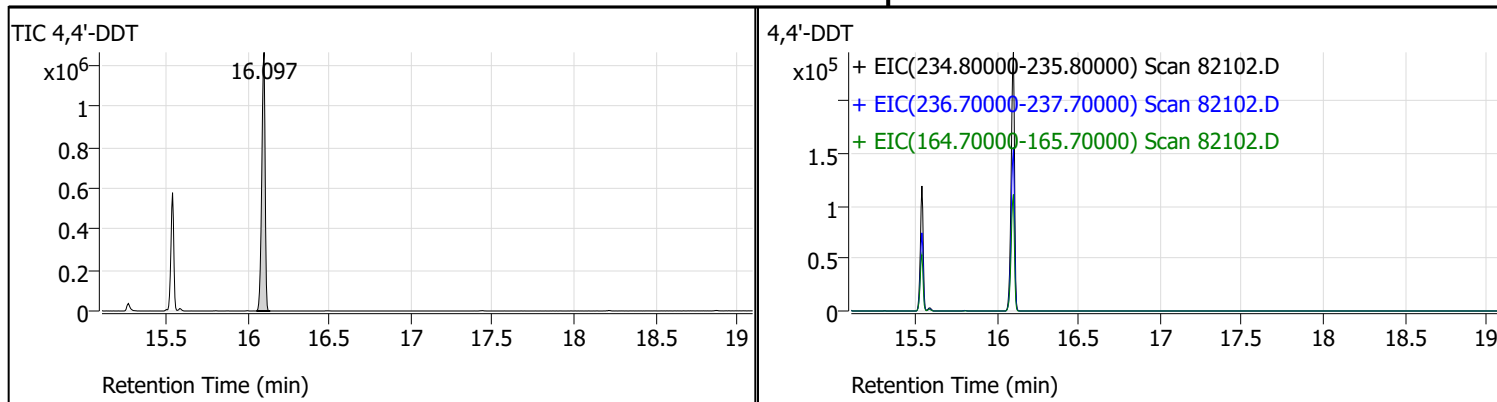
# Tune Evaluation Report

Data Path: Z:\GC-14\Data\2024\082124\82102.D  
 Acq on: 8/21/2024 12:23:18 PM  
 Operator: FA\GC14  
 Sample: tune  
 Inst Name: GC-14  
 ALS Vial: 1  
 Method: \\FA-LAB04\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	1902	Pass
70	69	0	2	0.7	704	Pass
197	198	0	2	0.0	0	Pass
198	198	100	100	100.0	279616	Pass
199	198	5	9	7.0	19648	Pass
365	442	1	100	7.0	27120	Pass
441	443	1E-10	150	80.5	63576	Pass
442	442	100	100	100.0	389696	Pass
443	442	15	24	20.3	78952	Pass
69	69	100	100	100.0	95200	Pass

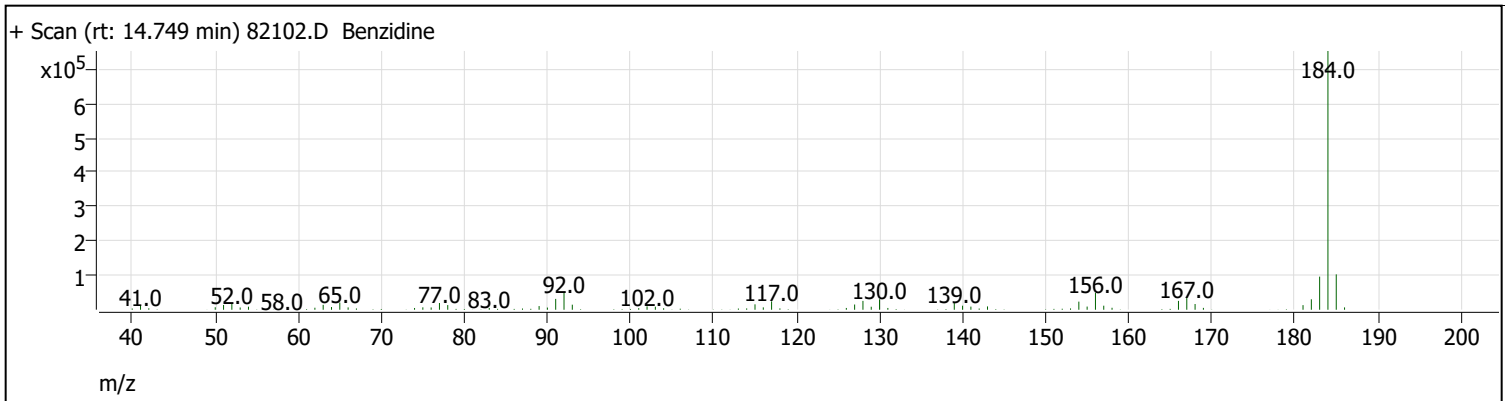
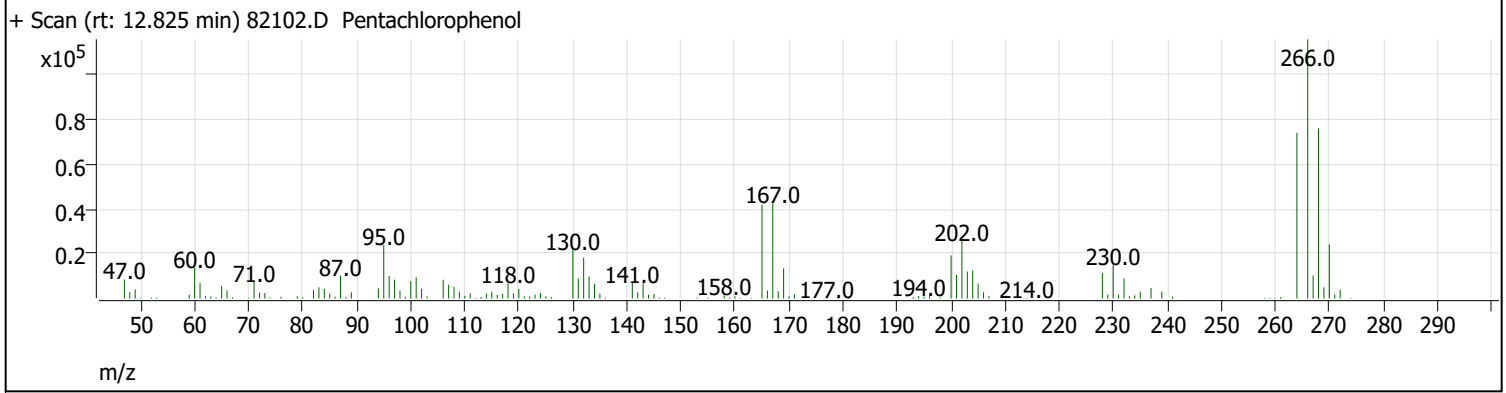
# Tune Evaluation Report



Compound Name	Expected RT	Observed RT	TIC Area	Breakdown %	Pass/Fail
4,4'-DDT	17.100	16.097	1812858	0.8	Pass
4,4'-DDD	15.750	15.578	14359		



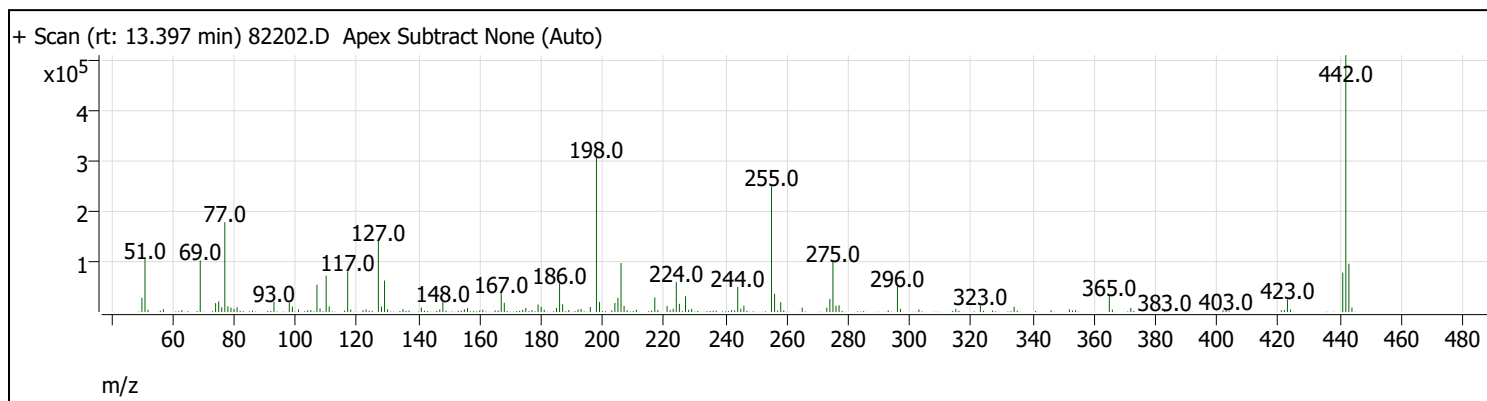
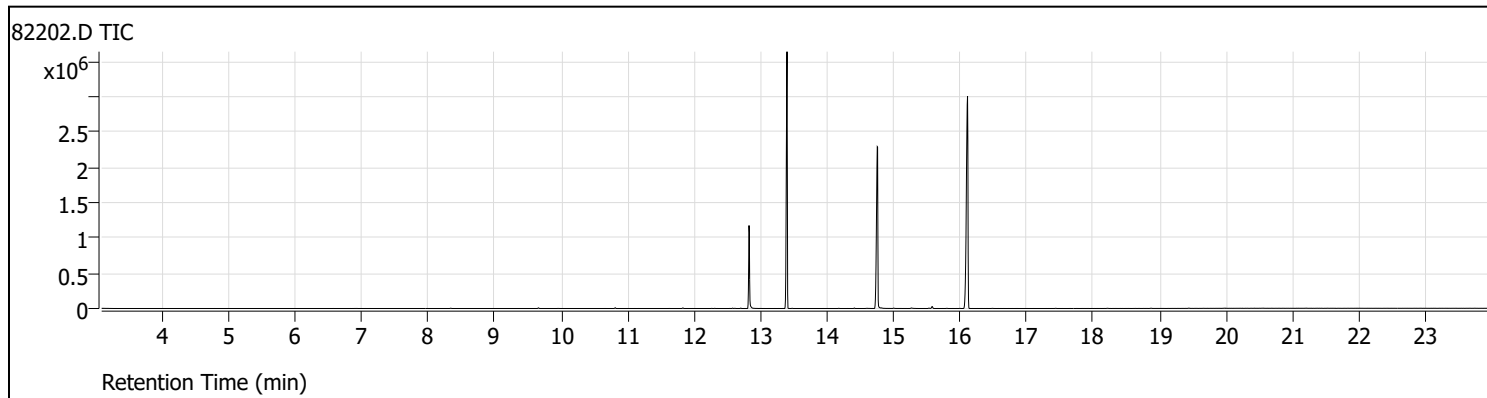
# Tune Evaluation Report



Compound Name	Expected RT	Observed RT	Tailing Factor	PGF	Pass/Fail
Pentachlorophenol	13.350	12.825	0.7	3.7	Pass
Benzidine	15.500	14.749	0.7	2.7	Pass

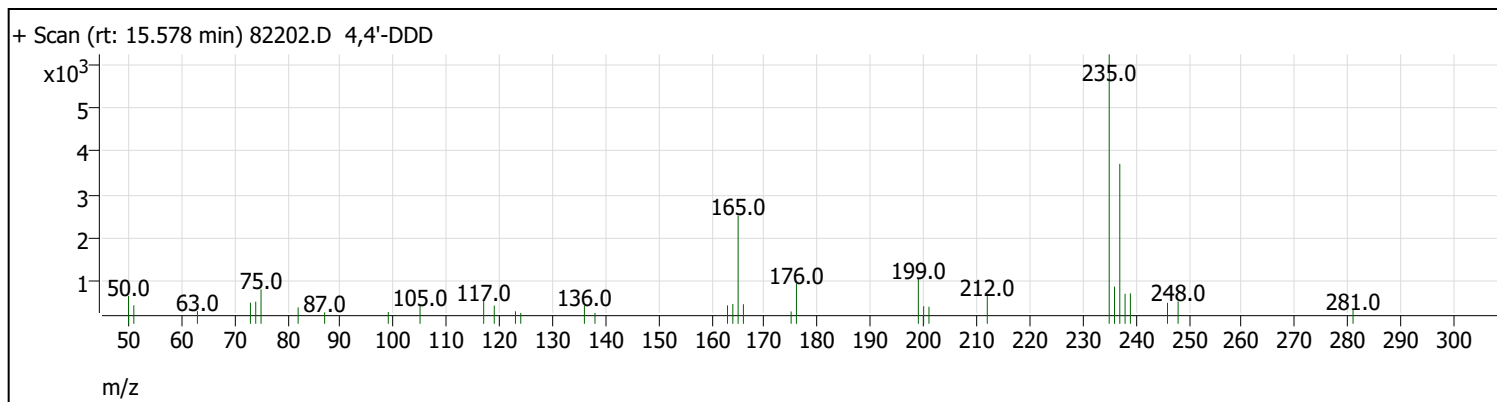
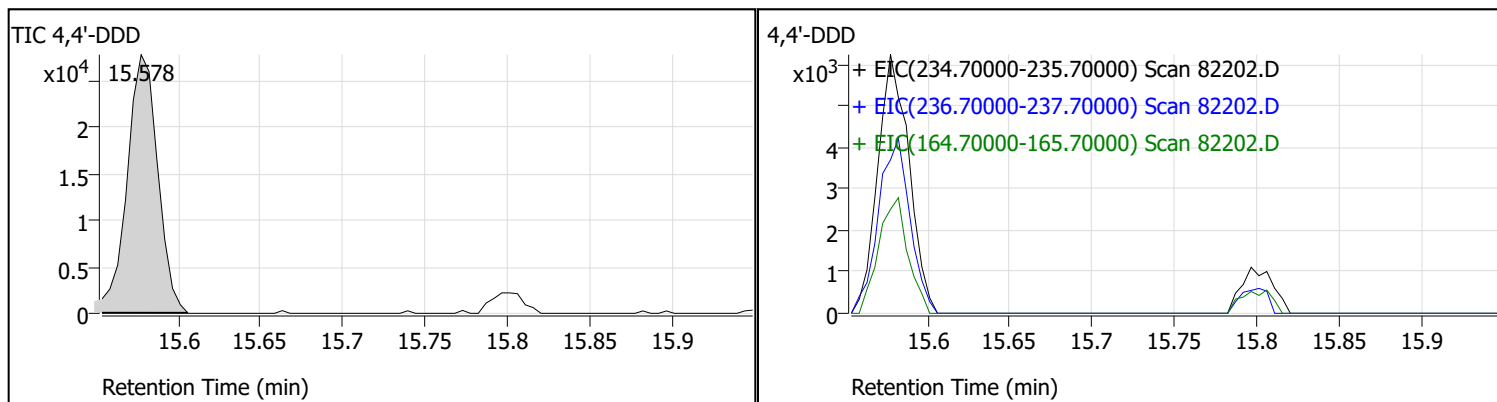
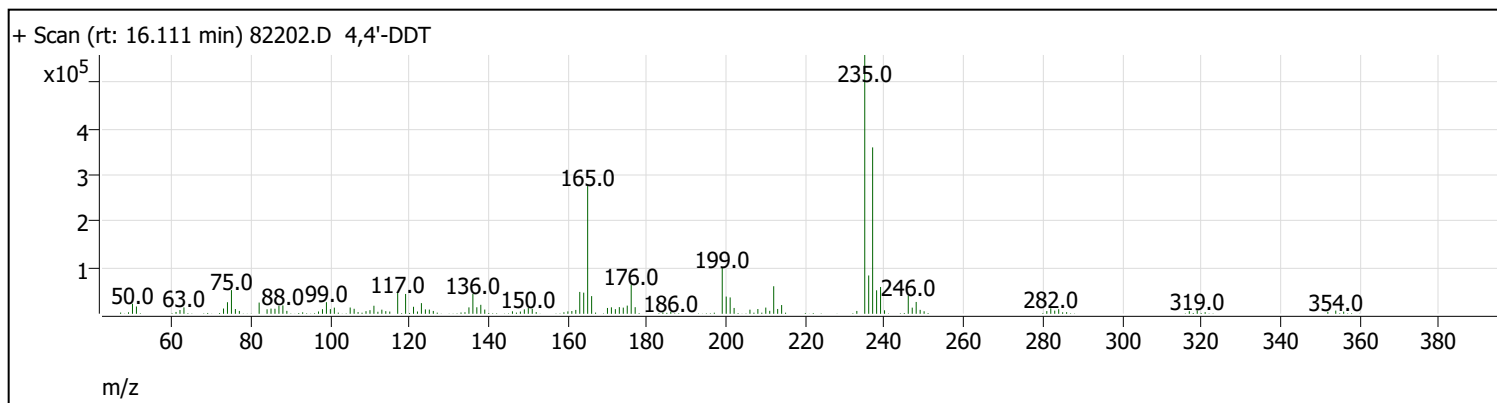
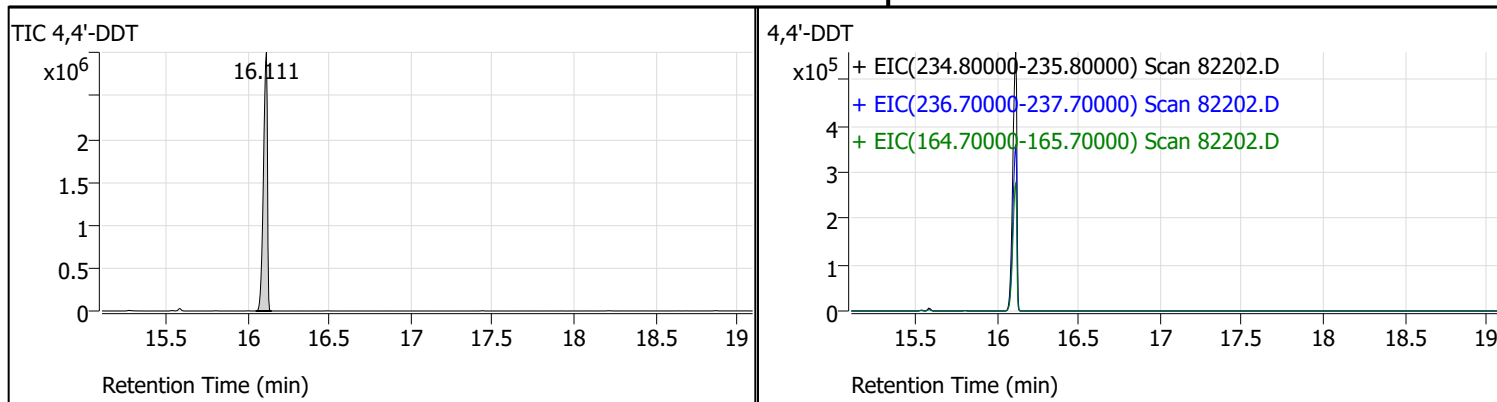
# Tune Evaluation Report

Data Path: C:\GC-14\Data\2024\082224\82202.D  
 Acq on: 8/22/2024 9:38:51 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	1.9	1917	Pass
70	69	0	2	0.7	702	Pass
197	198	0	2	0.0	0	Pass
198	198	100	100	100.0	304896	Pass
199	198	5	9	6.6	19992	Pass
365	442	1	100	6.4	32672	Pass
441	443	1E-10	150	81.7	78328	Pass
442	442	100	100	100.0	508416	Pass
443	442	15	24	18.8	95824	Pass
69	69	100	100	100.0	102376	Pass

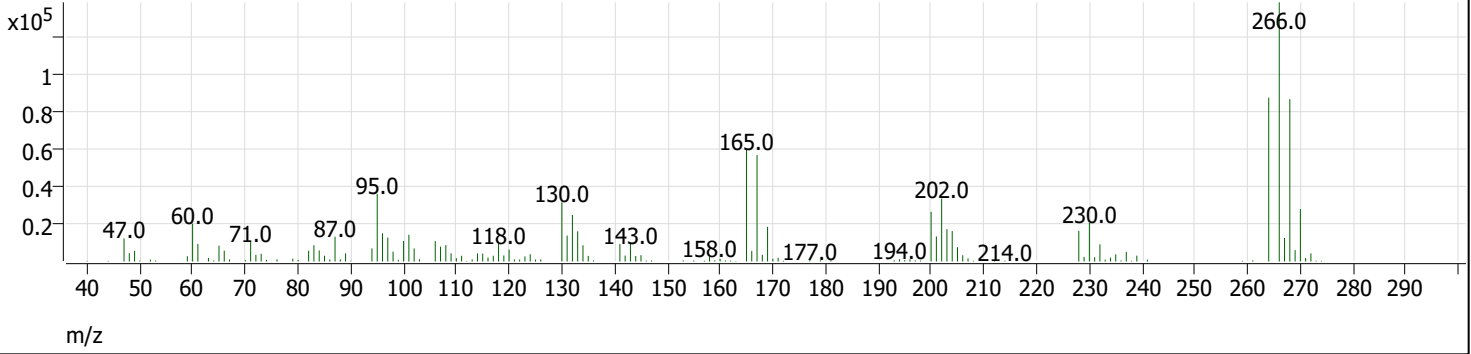
# Tune Evaluation Report



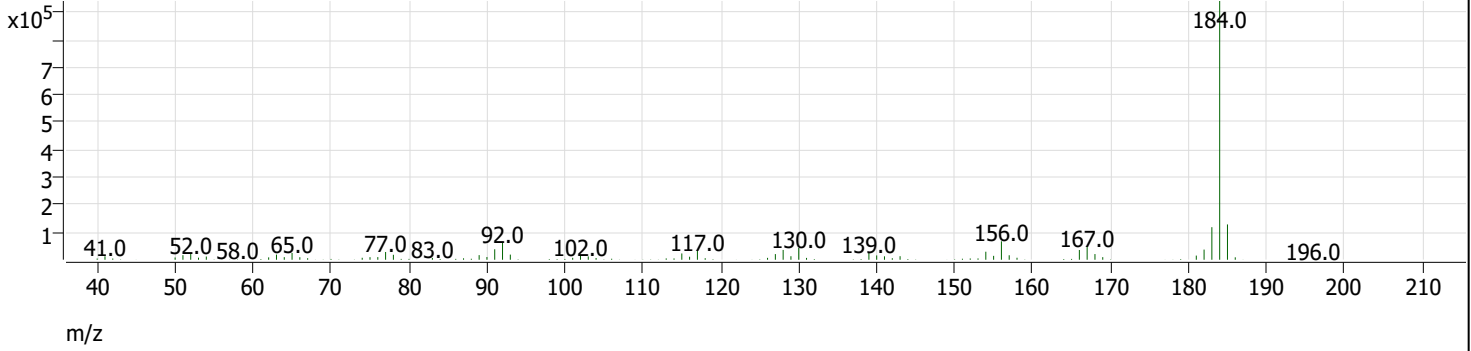
Compound Name	Expected RT	Observed RT	TIC Area	Breakdown %	Pass/Fail
4,4'-DDT	17.100	16.111	5059097	0.7	Pass
4,4'-DDD	15.750	15.578	35971		

# Tune Evaluation Report

+ Scan (rt: 12.825 min) 82202.D Pentachlorophenol



+ Scan (rt: 14.754 min) 82202.D Benzidine



Compound Name	Expected RT	Observed RT	Tailing Factor	PGF	Pass/Fail
Pentachlorophenol	13.350	12.825	1.1	1.9	Pass
Benzidine	15.500	14.754	0.5	1.2	Pass

# Internal Standards

INTERNAL STANDARD AREA AND RT SUMMARY

RunID: GC-14 240823A CCV Name: CAL MDPT  
 Run No: 93851 CCV SeqNo: 1960081  
 Lab File ID (Standard): 072510.D Date Analyzed: 7/25/2024  
 Instrument ID: GC-14 Time Analyzed: 16:04  
 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	59784	11.183	72682	17.108	126228	8.970
UPPER LIMIT	0	0.500	119568	11.683	145364	17.608	252456	9.470
LOWER LIMIT	0	-0.500	29892	10.683	36341	16.608	63114	8.470
SAMPLE NO.								
01	CCV-44929A	0	57620	11.184	75109	17.109	123041	8.97
02	QCS-44929A	0	56661	11.184	73756	17.102	119029	8.97
03	CCV-44929B	0	58036	11.184	76214	17.107	129407	8.97
04	QCS-44929B	0	60225	11.184	80531	17.114	129211	8.97

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 240823A CCV Name: CAL MDPT  
 Run No: 93851 CCV SeqNo: 1960081  
 Lab File ID (Standard): 072510.D Date Analyzed: 7/25/2024  
 Instrument ID: GC-14 Time Analyzed: 16:04  
 GC Column: ID (mm): Length (M):

		S5 Perylene-d12		S6 Phenanthrene-d10					
		AREA #	RT #	AREA #	RT #				
12 HOUR STD		78794	19.532	99386	13.049				
UPPER LIMIT		157588	20.032	198772	13.549				
LOWER LIMIT		39397	19.032	49693	12.549				
SAMPLE NO.									
01	CCV-44929A	73885	19.533	96254	13.043				
02	QCS-44929A	76485	19.529	94914	13.043				
03	CCV-44929B	84435	19.531	97858	13.043				
04	QCS-44929B	87733	19.535	101505	13.05				

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 240823A CCV Name: CCV-44929A  
 Run No: 93851 CCV SeqNo: 1960082  
 Lab File ID (Standard): 082048.D Date Analyzed: 8/21/2024  
 Instrument ID: GC-14 Time Analyzed: 10:27  
 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	57620	11.184
UPPER LIMIT	0	0.500	115240	11.684
LOWER LIMIT	0	-0.500	28810	10.684
SAMPLE NO.				
01 MB-44929	0	0	46247	11.184
02 LCS-44929	0	0	44337	11.184
03 LCSD-44929	0	0	45573	11.184

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 240823A CCV Name: CCV-44929A  
 Run No: 93851 CCV SeqNo: 1960082  
 Lab File ID (Standard): 082048.D Date Analyzed: 8/21/2024  
 Instrument ID: GC-14 Time Analyzed: 10:27  
 GC Column: ID (mm): Length (M):

	S5 Perylene-d12		S6 Phenanthrene-d10					
	AREA #	RT #	AREA #	RT #				
12 HOUR STD	73885	19.533	96254	13.043				
UPPER LIMIT	147770	20.033	192508	13.543				
LOWER LIMIT	36943	19.033	48127	12.543				
SAMPLE NO.								
01 MB-44929	60919	19.533	76672	13.043				
02 LCS-44929	58119	19.531	73514	13.043				
03 LCSD-44929	59478	19.535	74440	13.043				

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 240823A CCV Name: CCV-44929B  
 Run No: 93851 CCV SeqNo: 1960087  
 Lab File ID (Standard): 82203.D Date Analyzed: 8/22/2024  
 Instrument ID: GC-14 Time Analyzed: 10:07  
 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	58036	11.184	76214	17.107	129407	8.970
UPPER LIMIT	0	0.500	116072	11.684	152428	17.607	258814	9.470
LOWER LIMIT	0	-0.500	29018	10.684	38107	16.607	64704	8.470
SAMPLE NO.								
01 2408312-001F	0	0	46241	11.184	63338	17.114	100439	8.97
02 2408312-002F	0	0	50504	11.184	67287	17.114	107638	8.97
03 2408312-003F	0	0	44449	11.184	58544	17.117	95809	8.975
04 2408312-004F	0	0	49204	11.184	65160	17.109	104836	8.975

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 240823A CCV Name: CCV-44929B  
 Run No: 93851 CCV SeqNo: 1960087  
 Lab File ID (Standard): 82203.D Date Analyzed: 8/22/2024  
 Instrument ID: GC-14 Time Analyzed: 10:07  
 GC Column: ID (mm): Length (M):

	S5 Perylene-d12		S6 Phenanthrene-d10					
	AREA #	RT #	AREA #	RT #				
12 HOUR STD	84435	19.531	97858	13.043				
UPPER LIMIT	168870	20.031	195716	13.543				
LOWER LIMIT	42218	19.031	48929	12.543				
SAMPLE NO.								
01	2408312-001F	73153	19.535	79781	13.05			
02	2408312-002F	75835	19.535	86390	13.05			
03	2408312-003F	65226	19.538	75494	13.05			
04	2408312-004F	71282	19.538	84967	13.05			

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.

# Supporting Data

Prep Start Date: 8/20/2024 4:31:57 P

Prep End Date: 8/20/2024 5:26:29 P

Technician: Zachary Dilger

Prep Factor Units:  
mL / mL

Prep Batch ID: 44929 Prep Code: PREP-PAH-W

Method No: SW3510C

Sample ID	ClientSampleID	Matrix	Sample Amount (mL)	Final Vol (mL)	Prep Factor	PrepStart	PrepEnd
MB-44929	28	Unknown	423.74	1	0.002	8/20/2024	8/20/2024
LCS-44929	29	Unknown	425.11	1	0.002	8/20/2024	8/20/2024
LCSD-44929	30	Unknown	427.4	1	0.002	8/20/2024	8/20/2024
8/27 2408298-001D	Discharge	Water	422.76	1	0.002	8/20/2024	8/20/2024
8/22 2408305-001C	108 Influent	Stormwater	420.48	1	0.002	8/20/2024	8/20/2024
2408305-002C	109 Discharge	Stormwater	423.32	1	0.002	8/20/2024	8/20/2024
8/22 2408306-001C	110 Discharge	Stormwater	424.21	1	0.002	8/20/2024	8/20/2024

GC-14  
 Brch. 3, Run 1, 8/21  
 MF 10:55-11:58

## Polyaromatic Hydrocarbons Water Prep Bench Sheet

Analyst: <i>DI</i>	Equipment		Spikes / Chemicals / Reagents	Omega ID	Amount Used
Date and Time: <i>8/20/2024</i>	Type	ID	8270 Spike Mix 200-400 µg/mL	<i>30207</i>	10 µL
Batch: <i>44929</i>	Balance:	<i>4</i>	8270 Surr. Mix 100-200 µg/mL	<i>30169</i>	10 µL
Notes / Modifications	Solvent Dispenser:	<i>5</i>	1:1 Sulfuric Acid	<i>6805</i>	~1 mL
	Buchi:		pH strips	<i>30210</i>	1 PC/ea
	Other:		Methylene Chloride	<i>8297</i>	70 mL
	Bottle Roller Times		Sodium Sulfate	<i>8265</i>	~5 g
	Roller START:		8270 Internal Standard 200 µg/mL	<i>30258</i>	10 µL *
	Roller STOP:		* 10 µL added to a 1.0 mL aliquot of extract *		
	Roller START:		Samples verified pH < 2		Initial/Date <i>EC 8/20</i>
	Roller STOP:		I acknowledge the spike/chemical/reagent amounts listed above were used		Initial/Date <i>DI 8/20/24</i>
	Buchi Concentration Times				
	Buchi START:	<i>10:55</i>			
Buchi STOP:	<i>11:58</i>				
Final Volume Before Analysis	1 mL		Dilutions		
			Sample ID	Dilution Description	
Sign and date below if you contributed to this preparation batch  <div style="font-family: cursive; font-size: 1.2em;"> <i>DI</i>      <i>8/20/24</i>  <i>Much</i>      <i>08/21/2024</i> </div>					

Prep Start Date: **8/20/2024 4:31:57 P**  
 Prep End Date: **8/21/2024 3:39:13 P**  
 Technician: **Zachary Dilger**

Prep Factor Units:  
 mL / mL

Prep Batch ID: **44929** Prep Code: **PREP-PAH-W** Method No: **SW3510C**

Sample ID	ClientSampleID	Matrix	Sample Amount (mL)	Final Vol (mL)	Prep Factor	PrepStart	PrepEnd
MB-44929		Unknown	423.74	1	0.002	8/20/2024	8/20/2024
LCS-44929		Unknown	425.11	1	0.002	8/20/2024	8/20/2024
LCSD-44929		Unknown	427.4	1	0.002	8/20/2024	8/20/2024
2408298-001D	Discharge	Water	422.76	1	0.002	8/20/2024	8/20/2024
2408305-001C	Influent	Stormwater	420.48	1	0.002	8/20/2024	8/20/2024
2408305-002C	Discharge	Stormwater	423.32	1	0.002	8/20/2024	8/20/2024
2408306-001C	Discharge	Stormwater	424.21	1	0.002	8/20/2024	8/20/2024
2408312-001F	GEI-11_082024	Water	421.52	1	0.002	8/20/2024	8/21/2024
2408312-002F	GEI-12_082024	Water	427.88	1	0.002	8/20/2024	8/21/2024
2408312-003F	GEI-13_082024	Water	426.19	1	0.002	8/20/2024	8/21/2024
2408312-004F	Dup_082024	Water	429.43	1	0.002	8/20/2024	8/21/2024

# Reporting Checklist



Analyst: Savannah Houser, Ramiro Garcia

Workorder(s): 2408305; 8306, 8298, 8312

Date: 8/21/24, 8/23/24

Prep #: 44929

Run(s) #: 93811, 93819

Analysis: O-PAH-W-SIM-625, O-PAH-W-SIM

Y/N		Reviewed
<input checked="" type="checkbox"/>	Run complete? (i.e., all QC, samples, dilutions present)	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	All QC within limits? <input type="checkbox"/> Exceedances acceptable per QA Manual and/or Auth'd by PM ___?	<input checked="" type="checkbox"/>
	<input type="checkbox"/> CCV out <input checked="" type="checkbox"/> LCS out <input type="checkbox"/> MS out <input type="checkbox"/> Blank hits <input type="checkbox"/> IS/surr out <input type="checkbox"/> RPD out <input type="checkbox"/> Hold time <input type="checkbox"/> Other _____ LCS/LCSD was spiked at the wrong level; spiking values adjusted to reflect	
	<input checked="" type="checkbox"/> Any pending dilutions, re-extracts, or reanalysis to be completed in future run?	
<input checked="" type="checkbox"/>	Manual entries/narratives reviewed for accuracy? (note below)    Analyst: _____    Reviewer: _____	<input type="checkbox"/>
<input checked="" type="checkbox"/>	Omega checks performed?	<input checked="" type="checkbox"/>
	<input checked="" type="checkbox"/> SampID, Test Code, Type, Prep	
	<input checked="" type="checkbox"/> PMOIST, pH	
	<input checked="" type="checkbox"/> BLKref, SPKref, RPDref, CCVref	
	<input checked="" type="checkbox"/> Attachments	<input checked="" type="checkbox"/>
	<input type="checkbox"/> Sequence <input type="checkbox"/> Cgrams <input type="checkbox"/> Bench Sheets <input type="checkbox"/> Perf Checks <input type="checkbox"/> Tech Doc	
	<input checked="" type="checkbox"/> Related Info	<input checked="" type="checkbox"/>
	<input type="checkbox"/> ICAL Ref <input type="checkbox"/> ICAL Ack/QA'd? <input type="checkbox"/> Spiking Info/CCV Std <input type="checkbox"/> _____	
	<input checked="" type="checkbox"/> Reporting Checks	<input checked="" type="checkbox"/>
	<input type="checkbox"/> Dilutions data/narr redundancy check <input type="checkbox"/> RLs OK (low wt, high pmoist, dilutions)	

**Notes for Reviewer**

By signing, I attest that I have followed the SOP

Ramiro Garcia 8/23/24

MG 8/23/2024

Analyst \_\_\_\_\_ Date \_\_\_\_\_

Reviewer \_\_\_\_\_ Date \_\_\_\_\_



**DATA SET for Review - Deliverable Requirements**

**Total Metals by EPA 6020B**

Fremont Analytical Work Order No. 2408312

**GeoEngineers**

Project Name: 701/709 South Jackson

Project Number: 24504-001-04

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\240826ME.b

## Batch Log

#	Acq. Date-Time	Sample Type	Sample Name	Vial#	File Name	Acquisition Result	Error Message	Dilution Result	Comment	Operator	Replicates	Level
1	8/26/2024 13:03:44	CalBlk	CAL BLANK	1	001CALB.d	Pass		1		ICPMS		1
2	8/26/2024 13:06:05	CalBlk	CAL BLANK	1	002CALB.d	Pass		1		ICPMS		1
3	8/26/2024 13:08:42	CalBlk	CAL BLANK	1	003CALB.d	Pass		1		ICPMS		1
4	8/26/2024 13:11:13	CalStd	STANDARD 1	101	004CAL.S.d	Pass		1		ICPMS		2
5	8/26/2024 13:13:45	CalStd	STANDARD 2	102	005CAL.S.d	Pass		1		ICPMS		3
6	8/26/2024 13:16:18	CalStd	STANDARD 3	5	006CAL.S.d	Pass		1		ICPMS		4
7	8/26/2024 13:18:53	CalStd	STANDARD 4	5	007CAL.S.d	Pass		1		ICPMS		5
8	8/26/2024 13:21:26	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													
5													
6			20	1	1	20							
7			4	1	1	4							
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	8/26/2024 13:23:44	CalStd	STANDARD 6	106	009CAL.S.d	Pass		1		ICPMS		7
10	8/26/2024 13:25:50	CalStd	STANDARD 7	107	010CAL.S.d	Pass		1		ICPMS		8
11	8/26/2024 13:27:52	Sample	Wash	6	011SMPL.d	Pass		1		ICPMS		
12	8/26/2024 13:30:25	Sample	Wash	6	012SMPL.d	Pass		1		ICPMS		
13	8/26/2024 13:32:55	ICB	ICB	1	013_ICB.d	Pass		1		ICPMS		
14	8/26/2024 13:35:28	ICV	ICV	111	014_ICV.d	Fail	QC check failed.	1		ICPMS		
15	8/26/2024 13:37:45	Sample	Wash	6	015SMPL.d	Pass		1		ICPMS		
17	8/26/2024 13:40:03	Sample	LDR	110		Skip				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													
17													

#	QC Failed Criteria	QC Failed Elements
9		
10		
11		
12		
13		
14	Main Error1 Criteria1	#2:[Pb]
15		
17		

# Batch Log

#	Acq. Date-Time	Sample Type	Sample Name	Vial#	File Name	Acquisition Result	Error Message	Dilution Result	Comment	Operator	Replicates	Level
16	8/26/2024 13:40:18	Sample	ICSA	112	016SMPL.d	Fail	QC check failed.	1		ICPMS		
18	8/26/2024 13:42:41	Sample	Wash	6	017SMPL.d	Pass		1		ICPMS		
19	8/26/2024 13:44:59	<Pause>				Pass				ICPMS		
20	8/26/2024 13:46:47	Sample	MB-44985	401	018SMPL.d	Pass		1		ICPMS		
21	8/26/2024 13:49:19	LCS	LCS-44985	402	019_LCS.d	Fail	QC check failed.	1		ICPMS		
22	8/26/2024 13:51:41	Sample	2408388-001A	403	020SMPL.d	Pass		1		ICPMS		
23	8/26/2024 13:54:11	Sample	2408388-001ADUP	404	021SMPL.d	Pass		1		ICPMS		
25	8/26/2024 13:56:26	CCV	CCV	5		Skip				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
16													
18													
19													
20													
21													
22													
23													
25													

#	QC Failed Criteria	QC Failed Elements
16	Main Error1 Criteria1	#2:Fe,Ca,Na
18		
19		
20		
21	Main Error1 Criteria1	#1:B #2 :Fe,Ca,Na,Mg, K,Zn,Al,P
22		
23		
25		

# Batch Log

#	Acq. Date-Time	Sample Type	Sample Name	Vial#	File Name	Acquisition Result	Error Message	Dilution Result	Comment	Operator	Replicates	Level
24	8/26/2024 13:56:41	Sample	2408388-001AMS	405	022SMPL.d	Pass		1		ICPMS		
26	8/26/2024 13:56:26	CCB	CCB	1		Skip				ICPMS		
27	8/26/2024 13:59:01	Sample	2408388-001AMSD	406	023SMPL.d	Pass		1		ICPMS		
28	8/26/2024 14:01:24	Sample	2408388-001AMSDIL	405	024SMPL.d	Pass		1		ICPMS		
29	8/26/2024 14:03:57	Sample	2408388-001APDS	407	025SMPL.d	Pass		1		ICPMS		
30	8/26/2024 14:06:18	Sample	2408311-002A	408	026SMPL.d	Pass		1		ICPMS		
31	8/26/2024 14:08:48	CCV	CCV	5	027_CCV.d	Fail	QC check failed.	1		ICPMS		
32	8/26/2024 14:11:05	CCB	CCB	1	028_CCB.d	Pass		1		ICPMS		
33	8/26/2024 14:13:38	Sample	MB-44985	401	029SMPL.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
24													
26													
27													
28			5	1	1	5							
29													
30													
31													
32													
33													

#	QC Failed Criteria	QC Failed Elements
24		
26		
27		
28		
29		
30		
31	Main Error1 Criteria1	#1:B #2:[Pb]
32		

# Batch Log

#	QC Failed Criteria	QC Failed Elements
33		

#	Acq. Date-Time	Sample Type	Sample Name	Vial#	File Name	Acquisition Result	Error Message	Dilution Result	Comment	Operator	Replicates	Level
34	8/26/2024 14:16:09	Sample	2408321-001A	409	030SMPL.d	Pass		1		ICPMS		
35	8/26/2024 14:18:40	Sample	2408321-002A	410	031SMPL.d	Pass		1		ICPMS		
36	8/26/2024 14:21:10	CCV	CCV	5	032_CC.V.d	Pass		1		ICPMS		
37	8/26/2024 14:23:27	CCB	CCB	1	033_CCB.d	Pass		1		ICPMS		
38	8/26/2024 14:25:45	<Pause>				Pass				ICPMS		
39	8/26/2024 14:29:36	Sample	MB-44983	411	034SMPL.d	Pass		1		ICPMS		
40	8/26/2024 14:32:09	LCS	LCS-44983	412	035_LCS.d	Fail	QC check failed.	1		ICPMS		
41	8/26/2024 14:34:27	Sample	2408399-001A	413	036SMPL.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		
35		
36		
37		
38		
39		
40	Main Error1 Criteria1	#2:Hg
41		

# Batch Log

#	Acq. Date-Time	Sample Type	Sample Name	Vial#	File Name	Acquisition Result	Error Message	Dilution Result	Comment	Operator	Replicates	Level
42	8/26/2024 14:36:55	Sample	2408399-010A	414	037SMPL.d	Fail	QC check failed.	1		ICPMS		
43	8/26/2024 14:39:31	Sample	2408399-013A	415	038SMPL.d	Pass		1		ICPMS		
44	8/26/2024 14:42:00	Sample	2408399-013AMS	416	039SMPL.d	Fail	QC check failed.	1		ICPMS		
45	8/26/2024 14:44:16	Sample	2408335-001A	417	040SMPL.d	Pass		1		ICPMS		
46	8/26/2024 14:46:48	Sample	2408335-001ADUP	418	041SMPL.d	Pass		1		ICPMS		
47	8/26/2024 14:49:19	Sample	2408335-001A	417	042SMPL.d	Fail	QC check failed.	1		ICPMS		
49	8/26/2024 14:51:26	CCV	CCV	5		Skip				ICPMS		
50	8/26/2024 14:51:26	CCB	CCB	1		Skip				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
42													
43													
44													
45			10	1	1	10							
46			10	1	1	10							
47													
49													
50													

#	QC Failed Criteria	QC Failed Elements
42	Main Error1 Criteria1	#2:Na
43		
44	Main Error1 Criteria1	#2:Na
45		
46		
47	Main Error1 Criteria1	#1:B #2:Ca,Na,K
49		
50		

# Batch Log

#	Acq. Date-Time	Sample Type	Sample Name	Vial#	File Name	Acquisition Result	Error Message	Dilution Result	Comment	Operator	Replicates	Level
48	8/26/2024 14:51:41	Sample	2408335-001AMS	419	043SMPL.d	Fail	QC check failed.	1		ICPMS		
51	8/26/2024 14:53:57	CCV	CCV	5	044_CCV.d	Pass		1		ICPMS		
52	8/26/2024 14:56:14	CCB	CCB	1	045_CCB.d	Pass		1		ICPMS		
53	8/26/2024 14:58:47	Sample	2408411-001B	421	046SMPL.d	Pass		1		ICPMS		
54	8/26/2024 15:01:14	Sample	2408411-002A	422	047SMPL.d	Fail	QC check failed.	1		ICPMS		
55	8/26/2024 15:03:43	Sample	2408413-001A	423	048SMPL.d	Fail	QC check failed.	1		ICPMS		
56	8/26/2024 15:06:06	Sample	2408339-001A	420	049SMPL.d	Fail	QC check failed.	1		ICPMS		
57	8/26/2024 15:08:20	<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
48													
51													
52													
53													
54													
55													
56			1000										
57													

#	QC Failed Criteria	QC Failed Elements
48	Main Error1 Criteria1	#1:B #2:Ca,Na,K
51		
52		
53		
54	Main Error1 Criteria1	#2:Ca
55	Main Error1 Criteria1	#2:Na,Cu,Zn
56	Main Error1 Criteria1	#2:Zn
57		



# Batch Log

#	Acq. Date-Time	Sample Type	Sample Name	Vial#	File Name	Acquisition Result	Error Message	Dilution Result	Comment	Operator	Replicates	Level
58	8/26/2024 15:11:02	Sample	2408353-001A	424	050SMPL.d	Fail	QC check failed.	1		ICPMS		
59	8/26/2024 15:13:16	Sample	2408353-002A	425	051SMPL.d	Fail	QC check failed.	1		ICPMS		
60	8/26/2024 15:15:41	Sample	2408353-003A	426	052SMPL.d	Fail	QC check failed.	1		ICPMS		
61	8/26/2024 15:18:05	Sample	2408353-004A	427	053SMPL.d	Fail	QC check failed.	1		ICPMS		
62	8/26/2024 15:20:28	Sample	2408363-001C	428	054SMPL.d	Fail		1		ICPMS		
63	8/26/2024 15:22:50	Sample	2408363-005C	429	055SMPL.d	Fail	QC check failed.	1		ICPMS		
64	8/26/2024 15:22:35	CCV	CCV	5		Skip				ICPMS		
65	8/26/2024 15:22:35	CCB	CCB	1		Skip				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
58													
59													
60													
61													
62													
63													
64													
65													

#	QC Failed Criteria	QC Failed Elements
58	Main Error1 Criteria1	#2:Ca,Na,Mg
59	Main Error1 Criteria1	#2:Na
60	Main Error1 Criteria1	#2:Ca,Na,Mg
61	Main Error1 Criteria1	#2:Ca,Na,Mg
62		
63	Main Error1 Criteria1	#2:Ca,Mg,K,Sr
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	8/26/2024 15:25:15	CCV	CCV	5	056_CCV.d	Fail	QC check failed.	1		ICPMS		
67	8/26/2024 15:27:28	CCB	CCB	1	057_CCB.d	Pass		1		ICPMS		
68	8/26/2024 15:30:01	CCV	CCV	5	058_CCV.d	Fail	QC check failed.	1		ICPMS		
69	8/26/2024 15:32:17	CCV	CCV	5	059_CCV.d	Fail	QC check failed.	1		ICPMS		
70	8/26/2024 15:34:19	<Pause>				Pass				ICPMS		
71	8/26/2024 15:35:44	CCB	CCB	1	060_CCB.d	Pass		1		ICPMS		
72	8/26/2024 15:38:02	<Pause>				Pass				ICPMS		
73	8/26/2024 15:40:48	Sample	MB-44989	435	061SMPL.d	Pass		1		ICPMS		
74	8/26/2024 15:43:24	Sample	2408339-001A	420	062SMPL.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
66													
67													
68													
69													
70													
71													
72													
73													
74													

#	QC Failed Criteria	QC Failed Elements
66	ISTD Criteria1	#1:Li
67		
68	ISTD Criteria1	#1:Li
69	ISTD Criteria1	#1:Li
70		
71		
72		
73		

# Batch Log

#	QC Failed Criteria	QC Failed Elements
74	Main Error1 Criteria1	#2:Na,Ni,Zn

# Batch Log

#	Acq. Date-Time	Sample Type	Sample Name	Vial#	File Name	Acquisition Result	Error Message	Dilution Result	Comment	Operator	Replicates	Level
75	8/26/2024 15:45:51	Sample	TRURINSE	160	063SMPL.d	Pass		1		ICPMS		
76	8/26/2024 15:48:25	Sample	WASH	6	064SMPL.d	Pass		1		ICPMS		
77	8/26/2024 15:50:59	Sample	WASH	6	065SMPL.d	Pass		1		ICPMS		
78	8/26/2024 15:53:32	CCV	CCV	5	066_CC.V.d	Fail	QC check failed.	1		ICPMS		
79	8/26/2024 15:55:50	CCB	CCB	1	067_CCB.d	Pass		1		ICPMS		
80	8/26/2024 15:58:23	Sample	MB-44989	436	068SMPL.d	Pass		1		ICPMS		
81	8/26/2024 16:00:56	LCS	LCS-44989	437	069_LCS.d	Fail	QC check failed.	1		ICPMS		
82	8/26/2024 16:03:13	Sample	2408401-001A	438	070SMPL.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
75													
76													
77													
78													
79													
80													
81													
82													

#	QC Failed Criteria	QC Failed Elements
75		
76		
77		
78	Main Error1 Criteria1	#1:Be #2:Na,[Pb]
79		
80		
81	Main Error1 Criteria1	#2:Na,K
82	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
83	8/26/2024 16:05:32	Sample	2408401-001ADUP	439	071SMPL.d	Fail	QC check failed.	1		ICPMS		
84	8/26/2024 16:07:50	Sample	2408401-001AMS	440	072SMPL.d	Fail	QC check failed.	1		ICPMS		
85	8/26/2024 16:10:00	Sample	2408401-001AMSD	441	073SMPL.d	Fail	QC check failed.	1		ICPMS		
86	8/26/2024 16:12:09	Sample	2408401-001AMSDIL	440	074SMPL.d	Fail	QC check failed.	1		ICPMS		
87	8/26/2024 16:14:38	Sample	2408401-001APDS	442	075SMPL.d	Fail	QC check failed.	1		ICPMS		
88	8/26/2024 16:16:56	Sample	2408287-005A	443	076SMPL.d	Fail	QC check failed.	1		ICPMS		
89	8/26/2024 16:19:19	Sample	2408288-001A	444	077SMPL.d	Fail	QC check failed.	1		ICPMS		
90	8/26/2024 16:19:04	CCV	CCV	5		Skip				ICPMS		
91	8/26/2024 16:19:04	CCB	CCB	1		Skip				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
83													
84													
85													
86			5	1	1	5							
87													
88													
89			5										
90													
91													

#	QC Failed Criteria	QC Failed Elements
83	ISTD Criteria1	#1:Li
84	ISTD Criteria1	#1:Li
85	ISTD Criteria1	#1:Li
86	ISTD Criteria1	#1:Li,Sc
87	ISTD Criteria1	#1:Li
88	ISTD Criteria1	#1:Li

# Batch Log

#	QC Failed Criteria	QC Failed Elements
89	ISTD Criteria1	#1:Li
90		
91		

#	Acq. Date-Time	Sample Type	Sample Name	Vial#	File Name	Acquisition Result	Error Message	Dilution Result	Comment	Operator	Replicates	Level
92	8/26/2024 16:21:34	CCV	CCV	5	078_CCV.d	Fail		1		ICPMS		
93	8/26/2024 16:23:51	CCB	CCB	1	079_CCB.d	Fail	QC check failed.	1		ICPMS		
94	8/26/2024 16:26:09	<Pause>				Pass				ICPMS		
95	8/26/2024 16:44:35	Sample	MB-44989	436	080SMPL.d	Pass		1		ICPMS		
96	8/26/2024 16:47:08	Sample	2408288-001A	444	081SMPL.d	Fail	QC check failed.	1		ICPMS		
97	8/26/2024 16:49:17	<Pause>				Pass				ICPMS		
98	8/26/2024 16:53:06	Sample	2408401-001A	438	082SMPL.d	Fail	QC check failed.	1		ICPMS		
99	8/26/2024 16:55:37	Sample	2408401-001AMS	440	083SMPL.d	Fail		1		ICPMS		
100	8/26/2024 16:58:07	Sample	2408401-001AMSD	441	084SMPL.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
92													
93													
94													
95													
96			10	10	2	2							
97													
98			10										
99			10										
100			10										

#	QC Failed Criteria	QC Failed Elements
92		
93	ISTD Criteria1	#1:Li
94		
95		

# Batch Log

#	QC Failed Criteria	QC Failed Elements
96	Main Error1 Criteria1	#2:Fe,Ca
97		
98	ISTD Criteria1	#1:Li
99		
100	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
101	8/26/2024 17:00:37	Sample	2408401-001AMSDIL	460	085SMPL.d	Fail	QC check failed.	1		ICPMS		
102	8/26/2024 17:03:10	Sample	2408401-001APDS	442	086SMPL.d	Fail	QC check failed.	1		ICPMS		
103	8/26/2024 17:05:31	CCV	CCV	5	087_CCV.d	Fail		1		ICPMS		
104	8/26/2024 17:07:49	CCB	CCB	1	088_CCB.d	Fail	QC check failed.	1		ICPMS		
105	8/26/2024 17:10:23	Sample	2408363-007A	430	089SMPL.d	Fail	QC check failed.	1		ICPMS		
106	8/26/2024 17:12:57	Sample	2408377-001C	431	090SMPL.d	Fail	QC check failed.	1		ICPMS		
107	8/26/2024 17:15:24	Sample	2408398-001A	432	091SMPL.d	Fail	QC check failed.	1		ICPMS		
108	8/26/2024 17:17:47	Sample	2408381-001A	433	092SMPL.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
101			50										
102			10										
103													
104													
105			10	1	1	10							
106													
107			2										
108													

#	QC Failed Criteria	QC Failed Elements
101	ISTD Criteria1	#1:Li
102	ISTD Criteria1	#1:Li
103		
104	ISTD Criteria1	#1:Li
105	ISTD Criteria1	#1:Li
106	Main Error1 Criteria1	#2:Na
107	Main Error1 Criteria1	#2:Ca,Na
108		



# Batch Log

#	Acq. Date-Time	Sample Type	Sample Name	Vial#	File Name	Acquisition Result	Error Message	Dilution Result	Comment	Operator	Replicates	Level
109	8/26/2024 17:19:58	<Pause>				Pass				ICPMS		
110	8/26/2024 17:21:39	Sample	2408386-001A	434	093SMPL.d	Fail	QC check failed.	1		ICPMS		
111	8/26/2024 17:24:01	Sample	2408288-001A	459	094SMPL.d	Fail	QC check failed.	1		ICPMS		
112	8/26/2024 17:26:28	CCV	CCV	5	095_CC.V.d	Fail	QC check failed.	1		ICPMS		
113	8/26/2024 17:28:45	CCB	CCB	1	096_CCB.d	Pass		1		ICPMS		
114	8/26/2024 17:31:18	Sample	2408312-001C	445	097SMPL.d	Fail	QC check failed.	1		ICPMS		
115	8/26/2024 17:33:42	Sample	2408312-002C	446	098SMPL.d	Fail	QC check failed.	1		ICPMS		
116	8/26/2024 17:36:08	Sample	2408312-003C	447	099SMPL.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
109													
110													
111			20										
112													
113													
114													
115													
116													

#	QC Failed Criteria	QC Failed Elements
109		
110	Main Error1 Criteria1	#2:Ca
111	Main Error1 Criteria1	#2:Fe,Ca
112	Main Error1 Criteria1	#2:Na,P
113		
114	Main Error1 Criteria1	#2:Ca,Na,Mg,K
115	Main Error1 Criteria1	#2:Ca,Na,Mg
116	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
117	8/26/2024 17:38:33	Sample	2408312-004C	448	100SMPL.d	Fail	QC check failed.	1		ICPMS		
118	8/26/2024 17:40:57	Sample	2408344-001A	449	101SMPL.d	Fail	QC check failed.	1		ICPMS		
119	8/26/2024 17:43:20	Sample	2408344-002A	450	102SMPL.d	Fail	QC check failed.	1		ICPMS		
120	8/26/2024 17:45:46	Sample	2408346-001C	451	103SMPL.d	Fail	QC check failed.	1		ICPMS		
121	8/26/2024 17:48:08	Sample	2408346-002C	452	104SMPL.d	Fail	QC check failed.	1		ICPMS		
122	8/26/2024 17:50:33	Sample	2408391-017B	453	105SMPL.d	Fail	QC check failed.	1		ICPMS		
124	8/26/2024 17:52:41	CCV	CCV	5		Skip				ICPMS		
125	8/26/2024 17:52:41	CCB	CCB	1		Skip				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
117													
118			40										
119			40										
120													
121													
122													
124													
125													

#	QC Failed Criteria	QC Failed Elements
117	Main Error1 Criteria1	#2 :Ca,Na,Mg,K
118	ISTD Criteria1	#1:Li
119	Main Error1 Criteria1	#1:B #2:Na,Cr
120	Main Error1 Criteria1	#2:Ca
121	Main Error1 Criteria1	#2:Ca,Na
122	Main Error1 Criteria1	#2:Fe,Ca,Mn
124		

# Batch Log

#	QC Failed Criteria	QC Failed Elements
125		

#	Acq. Date-Time	Sample Type	Sample Name	Vial#	File Name	Acquisition Result	Error Message	Dilution Result	Comment	Operator	Replicates	Level
123	8/26/2024 17:52:56	Sample	2408391-018B	454	106SMPL.d	Fail	QC check failed.	1		ICPMS		
126	8/26/2024 17:55:20	CCV	CCV	5	107_CCV.d	Fail	QC check failed.	1		ICPMS		
127	8/26/2024 17:57:38	CCB	CCB	1	108_CCB.d	Pass		1		ICPMS		
128	8/26/2024 18:00:11	Sample	2408391-019B	455	109SMPL.d	Fail	QC check failed.	1		ICPMS		
129	8/26/2024 18:02:34	Sample	2408391-020B	456	110SMPL.d	Fail	QC check failed.	1		ICPMS		
130	8/26/2024 18:04:42	<Pause>				Pass				ICPMS		
131	8/26/2024 18:08:47	CCV	CCV	5	111_CCV.d	Fail	QC check failed.	1		ICPMS		
132	8/26/2024 18:11:05	CCB	CCB	1	112_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
123													
126													
127													
128													
129													
130													
131													
132													

#	QC Failed Criteria	QC Failed Elements
123	Main Error1 Criteria1	#2 :Fe,Ca,Na,Mn
126	Main Error1 Criteria1	#1:Be #2:Na,Cd, [Pb],P
127		
128	Main Error1 Criteria1	#2:Fe,Ca,Mn
129	Main Error1 Criteria1	#2:Fe,Ca,Mn

# Batch Log

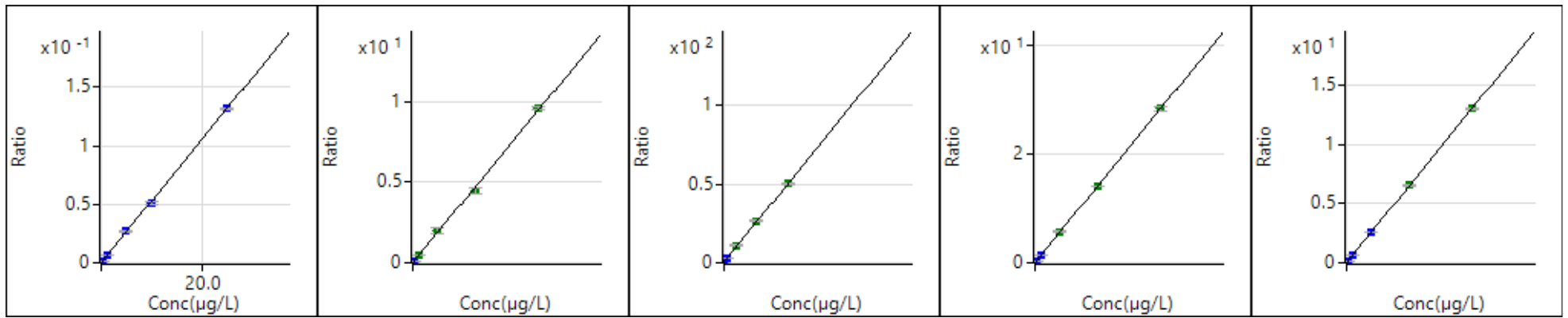
#	QC Failed Criteria	QC Failed Elements
130		
131	Main Error1 Criteria1	#2:Na,Cd, [Pb],P
132		

#	Acq. Date-Time	Sample Type	Sample Name	Vial#	File Name	Acquisition Result	Error Message	Dilution Result	Comment	Operator	Replicates	Level
133	8/26/2024 18:13:38	Sample	WASH	6	113SMPL.d	Pass		1		ICPMS		
134	8/26/2024 18:16:11	Sample	WASH	6	114SMPL.d	Pass		1		ICPMS		
135	8/26/2024 18:18:45	Sample	WASH	6	115SMPL.d	Pass		1		ICPMS		
136	8/26/2024 18:21:18	Sample	WASH	6	116SMPL.d	Pass		1		ICPMS		
137	8/26/2024 18:23:51	Sample	WASH	6	117SMPL.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
133													
134													
135													
136													
137													

#	QC Failed Criteria	QC Failed Elements
133		
134		
135		
136		
137		

# Calibration



9 Be [ No Gas ]

ISTD: 6 Li

$y = 5.261E-3 x + 3.947E-5$

R 0.9999

DL 0.003831

BEC 0.007503

11 B [ No Gas ]

ISTD: 6 Li

$y = 3.768E-3 x + 5.955E-3$

R 0.9994

DL 0.09627

BEC 1.58

23 Na [ He ]

ISTD: 45 Sc

$y = 1.008E-2 x + 4.201E-1$

R 0.9997

DL 1.296

BEC 41.66

24 Mg [ He ]

ISTD: 45 Sc

$y = 5.651E-3 x + 2.617E-3$

R 1.0000

DL 0.06849

BEC 0.4631

27 Al [ He ]

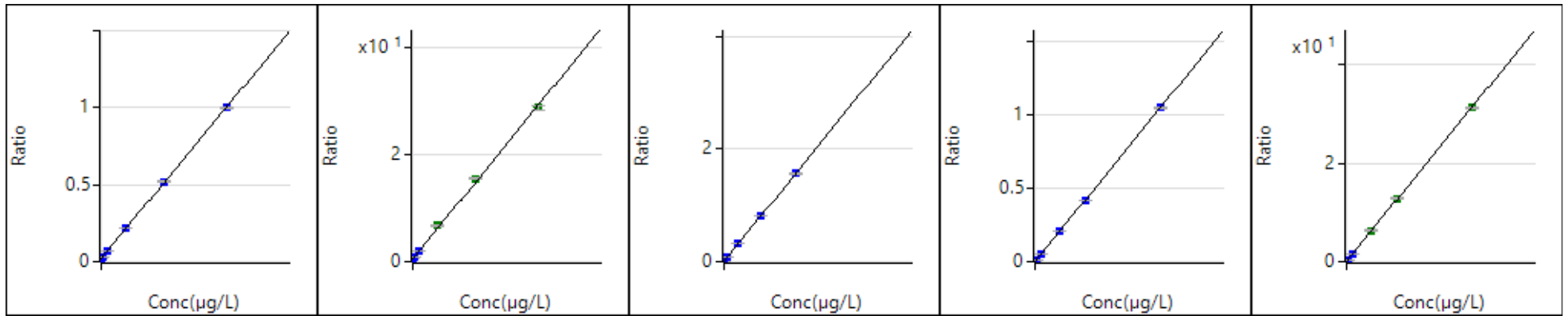
ISTD: 45 Sc

$y = 2.611E-3 x + 2.369E-3$

R 1.0000

DL 0.6032

BEC 0.9075



31 P [ He ]

ISTD: 45 Sc

$y = 1.969E-4 x + 2.060E-2$

R 1.0000

DL 7.793

BEC 104.6

39 K [ He ]

ISTD: 45 Sc

$y = 5.747E-3 x + 4.452E-1$

R 0.9994

DL 0.9861

BEC 77.47

44 Ca [ He ]

ISTD: 45 Sc

$y = 3.156E-4 x + 2.470E-3$

R 0.9999

DL 1.686

BEC 7.826

47 Ti [ He ]

ISTD: 45 Sc

$y = 2.100E-3 x + 4.248E-5$

R 1.0000

DL 0.0404

BEC 0.02023

51 V [ He ]

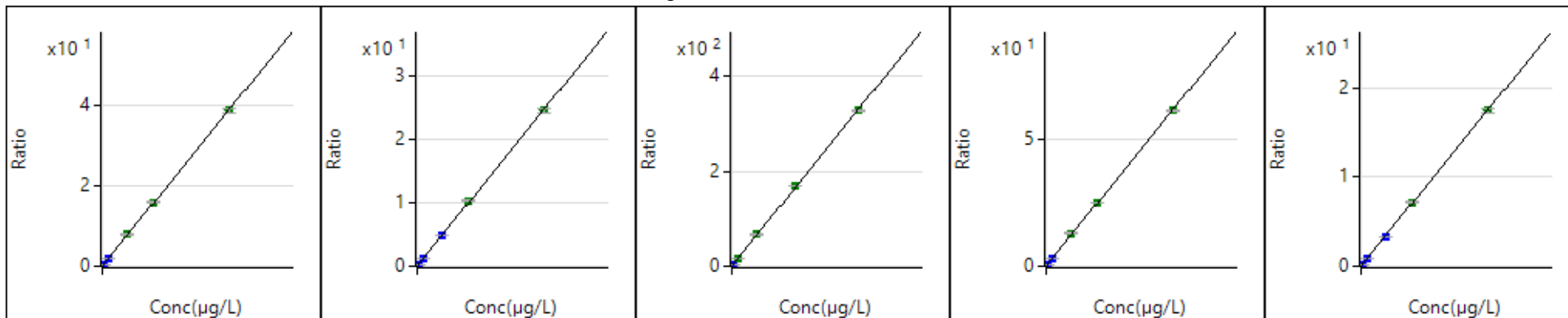
ISTD: 45 Sc

$y = 6.259E-2 x + 3.315E-2$

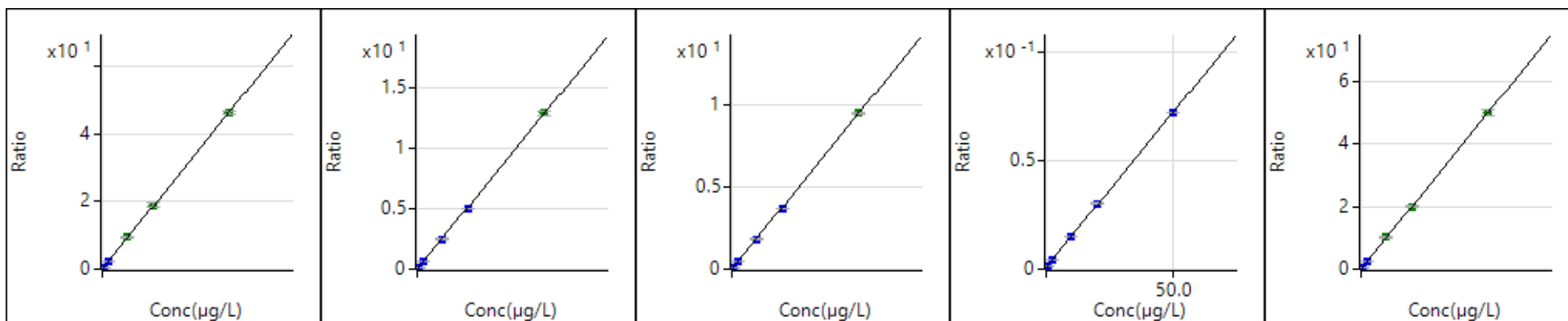
R 1.0000

DL 0.04712

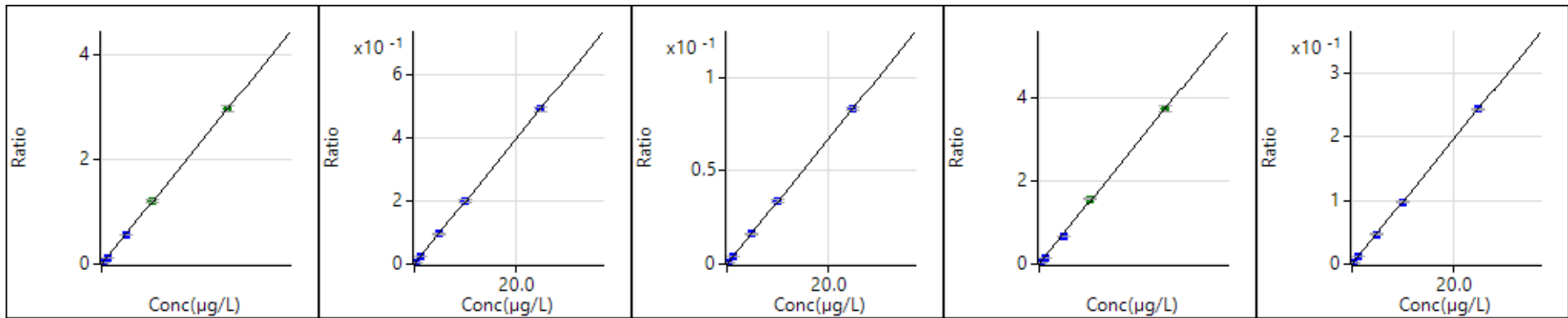
BEC 0.5296



52 Cr [ He ] ISTD: 45 Sc $y = 7.770E-2 x + 4.121E-3$ R 0.9999 DL 0.009498 BEC 0.05304	55 Mn [ He ] ISTD: 45 Sc $y = 4.952E-2 x + 3.102E-3$ R 0.9998 DL 0.01603 BEC 0.06265	56 Fe [ He ] ISTD: 45 Sc $y = 6.592E-2 x + 1.835E-1$ R 0.9999 DL 0.03674 BEC 2.784	59 Co [ He ] ISTD: 45 Sc $y = 1.240E-1 x + 1.383E-3$ R 0.9999 DL 0.003907 BEC 0.01115	60 Ni [ He ] ISTD: 45 Sc $y = 3.496E-2 x + 6.737E-4$ R 0.9999 DL 0.007633 BEC 0.01927
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63 Cu [ He ] ISTD: 45 Sc $y = 9.279E-2 x + 7.018E-3$ R 0.9999 DL 0.005221 BEC 0.07563	66 Zn [ He ] ISTD: 72 Ge $y = 2.571E-2 x + 5.507E-3$ R 0.9999 DL 0.06203 BEC 0.2142	75 As [ He ] ISTD: 72 Ge $y = 1.898E-2 x + 1.229E-3$ R 0.9999 DL 0.0002027 BEC 0.06475	78 Se [ He ] ISTD: 72 Ge $y = 1.428E-3 x + 8.811E-4$ R 0.9999 DL 0.1788 BEC 0.6169	88 Sr [ He ] ISTD: 72 Ge $y = 9.969E-2 x + 1.999E-3$ R 1.0000 DL 0.005662 BEC 0.02005
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95 Mo [ He ]

ISTD: 115 In

$y = 5.940E-3 x + 9.082E-5$

R 0.9999

DL 0.005295

BEC 0.01529

107 Ag [ He ]

ISTD: 115 In

$y = 1.969E-2 x + 8.389E-5$

R 1.0000

DL 0.0006983

BEC 0.004261

111 Cd [ He ]

ISTD: 115 In

$y = 3.317E-3 x + 1.735E-6$

R 1.0000

DL 0.0002777

BEC 0.0005231

118 Sn [ He ]

ISTD: 115 In

$y = 7.463E-3 x + 7.345E-4$

R 0.9996

DL 0.07901

BEC 0.09842

121 Sb [ He ]

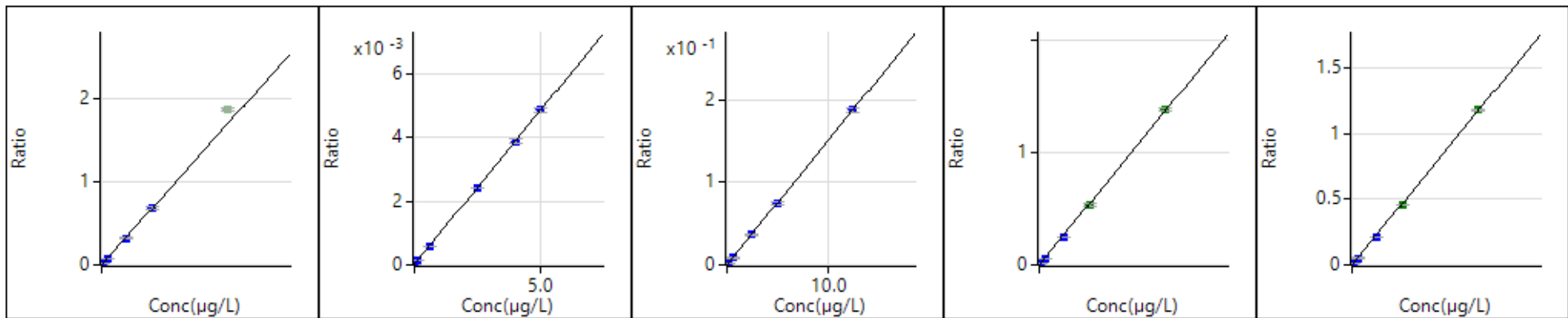
ISTD: 115 In

$y = 9.737E-3 x + 8.358E-5$

R 1.0000

DL 0.005613

BEC 0.008584



137 Ba [ He ]

ISTD: 115 In

$y = 3.397E-3 x + 5.165E-5$

R 0.9996

DL 0.01135

BEC 0.0152

201 Hg [ He ]

ISTD: 159 Tb

$y = 9.671E-4 x + 1.473E-5$

R 1.0000

DL 0.005769

BEC 0.01523

205 Tl [ He ]

ISTD: 159 Tb

$y = 1.499E-2 x + 6.166E-6$

R 1.0000

DL 0.0003662

BEC 0.0004114

206 [Pb] [ He ]

ISTD: 159 Tb

$y = 5.476E-3 x + 1.817E-4$

R 0.9997

DL 0.01281

BEC 0.03318

207 [Pb] [ He ]

ISTD: 159 Tb

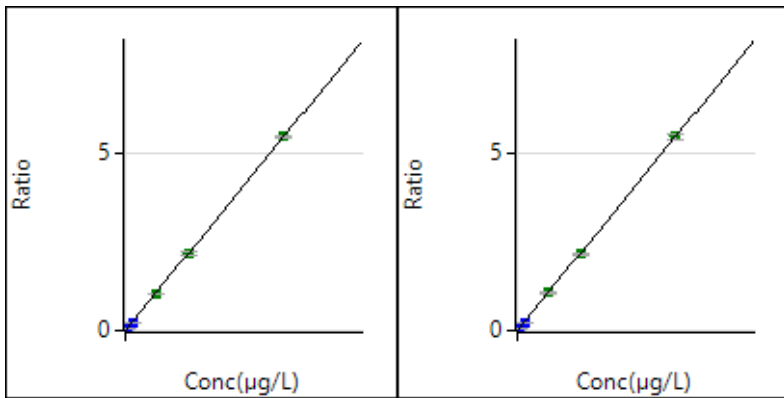
$y = 4.693E-3 x + 1.514E-4$

R 0.9998

DL 0.003708

BEC 0.03226





208 Pb [ He ]

ISTD: 159 Tb

$$y = 2.172E-2 x + 7.003E-4$$

R 0.9999

DL 0.005435

BEC 0.03224

238 U [ He ]

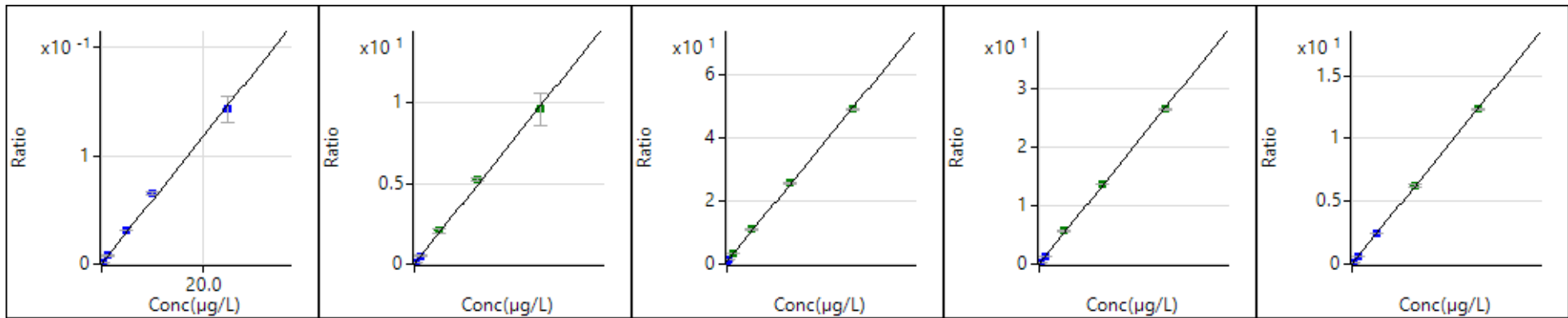
ISTD: 159 Tb

$$y = 1.092E-2 x + 4.229E-5$$

R 1.0000

DL 0.0005799

BEC 0.003872



9 Be [ No Gas ]

ISTD: 6 Li

$$y = 5.854E-3 x + 9.084E-6$$

R 0.9985

DL 0.001816

BEC 0.001552

11 B [ No Gas ]

ISTD: 6 Li

$$y = 3.921E-3 x + 3.258E-3$$

R 0.9991

DL 0.1796

BEC 0.8308

23 Na [ He ]

ISTD: 45 Sc

$$y = 9.740E-3 x + 7.660E-1$$

R 0.9999

DL 5.393

BEC 78.64

24 Mg [ He ]

ISTD: 45 Sc

$$y = 5.335E-3 x + 1.995E-3$$

R 0.9998

DL 0.06972

BEC 0.3739

27 Al [ He ]

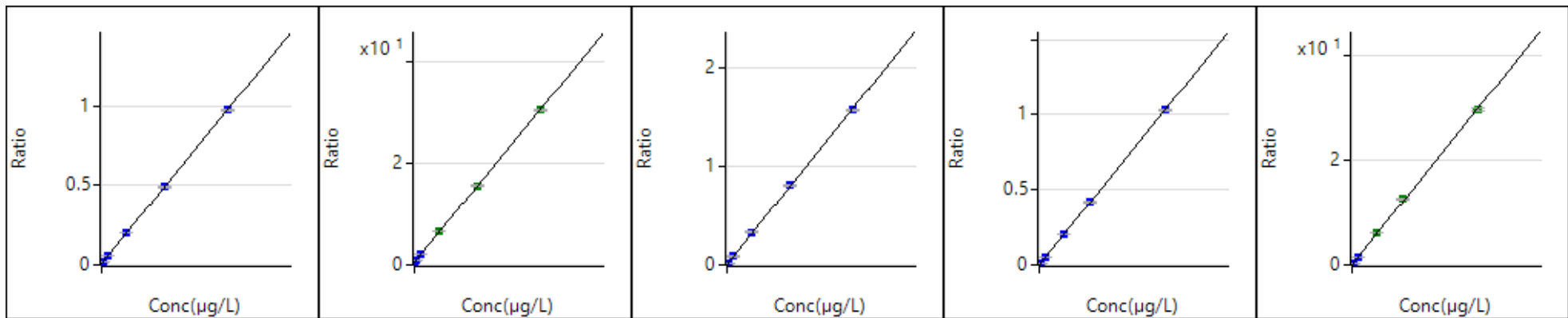
ISTD: 45 Sc

$$y = 2.474E-3 x + 1.351E-3$$

R 1.0000

DL 0.07283

BEC 0.546



31 P [ He ]

ISTD: 45 Sc

$$y = 1.939E-4 x + 7.661E-3$$

R 1.0000

DL 8.316

BEC 39.51

39 K [ He ]

ISTD: 45 Sc

$$y = 6.021E-3 x + 5.043E-1$$

R 1.0000

DL 3.838

BEC 83.75

44 Ca [ He ]

ISTD: 45 Sc

$$y = 3.160E-4 x + 2.609E-3$$

R 0.9999

DL 1.05

BEC 8.257

47 Ti [ He ]

ISTD: 45 Sc

$$y = 2.066E-3 x + 2.659E-5$$

R 1.0000

DL 0.02428

BEC 0.01287

51 V [ He ]

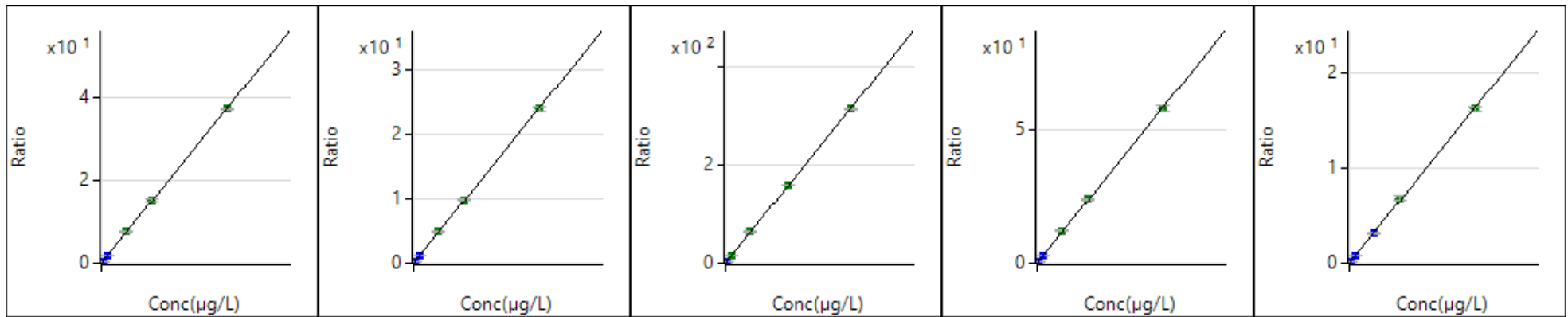
ISTD: 45 Sc

$$y = 5.992E-2 x + 3.233E-2$$

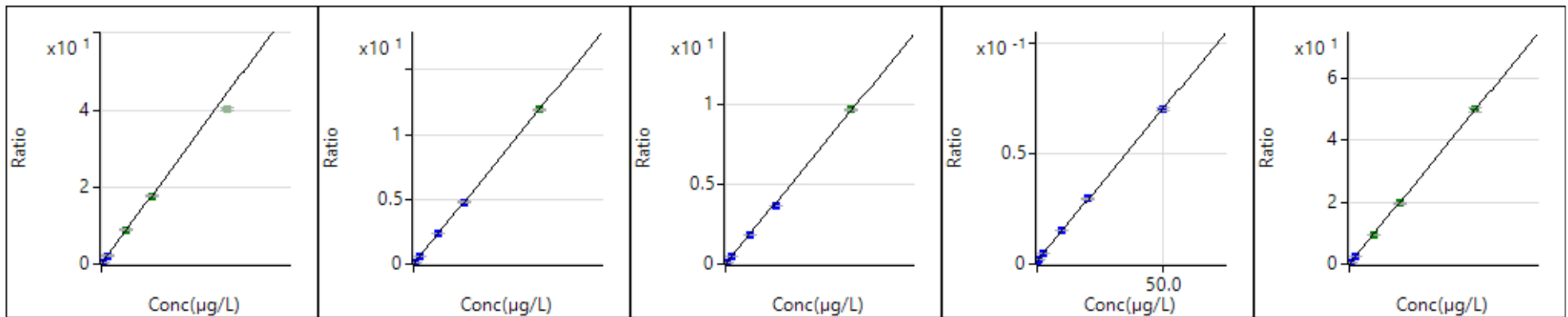
R 0.9997

DL 0.02026

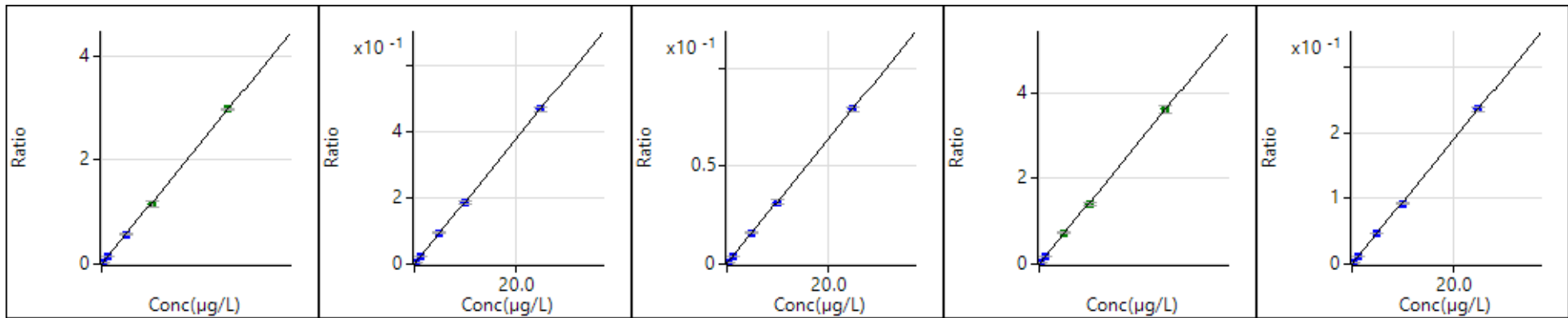
BEC 0.5396



52 Cr [ He ]	55 Mn [ He ]	56 Fe [ He ]	59 Co [ He ]	60 Ni [ He ]
ISTD: 45 Sc	ISTD: 45 Sc	ISTD: 45 Sc	ISTD: 45 Sc	ISTD: 45 Sc
$y = 7.478E-2 x + 3.968E-3$	$y = 4.799E-2 x + 1.767E-3$	$y = 6.330E-2 x + 1.480E-1$	$y = 1.166E-1 x + 3.842E-4$	$y = 3.265E-2 x + 4.694E-4$
R 1.0000	R 0.9999	R 1.0000	R 0.9999	R 0.9997
DL 0.00403	DL 0.006025	DL 0.1348	DL 0.001352	DL 0.005165
BEC 0.05306	BEC 0.03682	BEC 2.338	BEC 0.003295	BEC 0.01437



63 Cu [ He ]	66 Zn [ He ]	75 As [ He ]	78 Se [ He ]	88 Sr [ He ]
ISTD: 45 Sc	ISTD: 72 Ge	ISTD: 72 Ge	ISTD: 72 Ge	ISTD: 72 Ge
$y = 8.842E-2 x + 7.414E-3$	$y = 2.384E-2 x + 2.583E-3$	$y = 1.917E-2 x + 1.656E-3$	$y = 1.374E-3 x + 1.332E-3$	$y = 9.916E-2 x + 1.625E-3$
R 1.0000	R 1.0000	R 0.9998	R 0.9999	R 0.9999
DL 0.009301	DL 0.03312	DL 0.01627	DL 0.2743	DL 0.00195
BEC 0.08384	BEC 0.1083	BEC 0.08636	BEC 0.9698	BEC 0.01638



95 Mo [ He ]

ISTD: 115 In

$y = 5.919E-3 x + 1.361E-5$

R 0.9999

DL 0.002214

BEC 0.002299

107 Ag [ He ]

ISTD: 115 In

$y = 1.875E-2 x + 7.211E-5$

R 1.0000

DL 0.002095

BEC 0.003846

111 Cd [ He ]

ISTD: 115 In

$y = 3.148E-3 x + 2.620E-4$

R 1.0000

DL 0.04287

BEC 0.08323

118 Sn [ He ]

ISTD: 115 In

$y = 7.213E-3 x + 1.167E-4$

R 0.9999

DL 0.005704

BEC 0.01618

121 Sb [ He ]

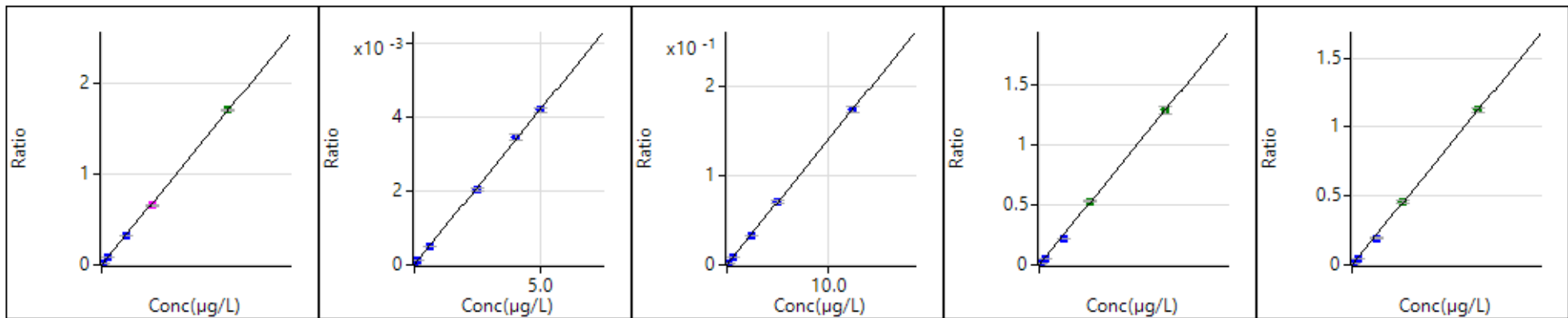
ISTD: 115 In

$y = 9.397E-3 x + 8.506E-5$

R 1.0000

DL 0.00273

BEC 0.009051



137 Ba [ He ]

ISTD: 115 In

$y = 3.378E-3 x + 1.843E-5$

R 0.9998

DL 0.002727

BEC 0.005455

201 Hg [ He ]

ISTD: 159 Tb

$y = 8.409E-4 x + 5.972E-6$

R 0.9997

DL 0.002851

BEC 0.007102

205 Tl [ He ]

ISTD: 159 Tb

$y = 1.385E-2 x + 4.698E-6$

R 0.9999

DL 0.0002458

BEC 0.0003392

206 [Pb] [ He ]

ISTD: 159 Tb

$y = 5.135E-3 x + 1.226E-4$

R 0.9994

DL 0.002547

BEC 0.02387

207 [Pb] [ He ]

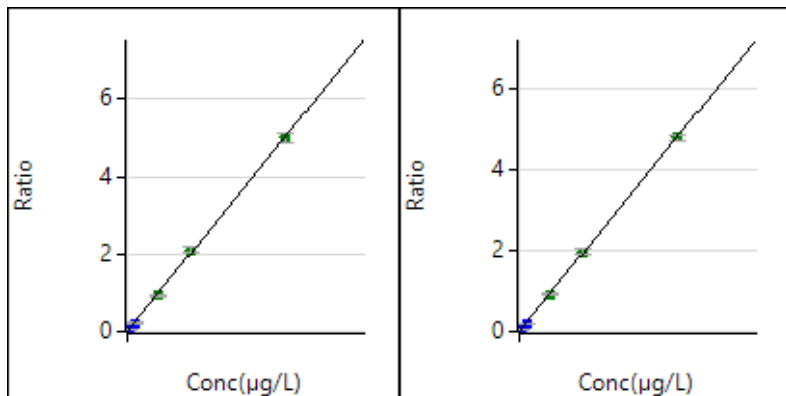
ISTD: 159 Tb

$y = 4.485E-3 x + 9.979E-5$

R 0.9995

DL 0.001745

BEC 0.02225



208 Pb [ He ]

ISTD: 159 Tb

$$y = 2.012E-2 x + 4.633E-4$$

R 0.9997

DL 0.00553

BEC 0.02303

238 U [ He ]

ISTD: 159 Tb

$$y = 9.596E-3 x + 4.146E-6$$

R 0.9999

DL 0.0007368

BEC 0.0004321

# Tunes

# US EPA Tune Check Report

**Operator Name** ICPMS  
**Acq/Data Batch** D:\Agilent\ICPMH\1\DATA\240826ME.b  
**Acq. Date-Time** 8/26/2024 13:02:44  
**Report Comment** ---  
**Instrument Name** G8422A SG22151236

[No Gas]

**Sensitivity**

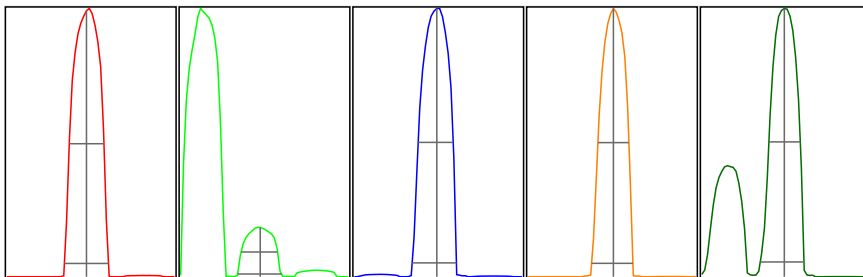
Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/(ug/l)]	Resp (Flag)	RSD%	RSD% (Required)
9	10.00	34982	349822.60			0.812	5.000
24	10.00	174951	1749512.67			0.798	5.000
59	10.00	316101	3161006.11			1.574	5.000
115	10.00	494969	4949689.55			0.447	5.000
208	10.00	299617	2996171.92			1.960	5.000

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	35254	35124	35139	34552	34842
24	176443	175651	174382	172829	175452
59	315844	313549	309328	320307	321475
115	492057	496546	493313	497301	495628
208	307732	298672	291232	299986	300465

Integration Time [sec] 0.1

**Resolution/Axis**



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	60383.78	8.95	8.90 - 9.10	
24	287707.95	23.95	23.90 - 24.10	
59	539146.45	59.00	58.90 - 59.10	
115	946980.39	115.05	114.90 - 115.10	
208	552837.81	208.00	207.90 - 208.10	

# US EPA Tune Check Report

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.61	0.777	0.900	
24	0.64	0.772	0.900	
59	0.62	0.779	0.900	
115	0.55	0.727	0.900	
208	0.55	0.769	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	7.2 V	Deflect	11.4 V
Extract 2	-110.0 V	Cell Entrance	-30 V	Plate Bias	-35 V
Omega Bias	-55 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	0.03		

**Hardware Settings**

**Torch**

Torch H	0.3 mm	Torch V	-0.1 mm
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**EM**

Discriminator	3.1 mV	Analog HV	2156 V	Pulse HV	1535 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	5105	51049.16			0.989	5.000
59	10.00	96855	968552.29			1.352	5.000
115	10.00	133747	1337465.89			1.115	5.000
208	10.00	158372	1583720.42			1.304	5.000

Mass	RSD% (Flag)
24	
59	



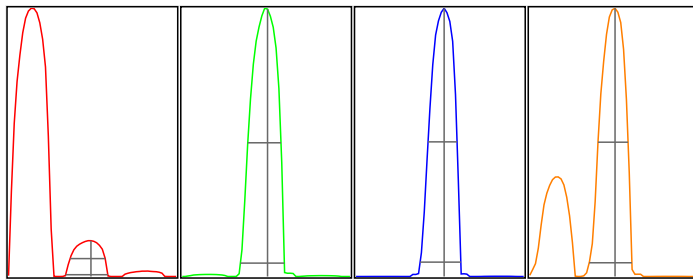
# US EPA Tune Check Report

Mass	RSD% (Flag)
115	
208	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
24	5139	5099	5169	5076	5042
59	97068	97477	98288	96672	94772
115	133473	133647	134219	135768	131626
208	160367	156362	160791	156776	157565

Integration Time [sec]      0.1

**Resolution/Axis**



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
24	8750.57	24.00	23.90 - 24.10	
59	172954.05	59.05	58.90 - 59.10	
115	267106.47	115.10	114.90 - 115.10	
208	307293.33	208.05	207.90 - 208.10	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
24	0.62	0.742	0.900	
59	0.58	0.773	0.900	
115	0.51	0.716	0.900	
208	0.53	0.751	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	9.1 V	Deflect	0.4 V
Extract 2	-200.0 V	Cell Entrance	-40 V	Plate Bias	-55 V
Omega Bias	-105 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	0.03		

## Hardware Settings

### Torch

Torch H	0.3 mm	Torch V	-0.1 mm
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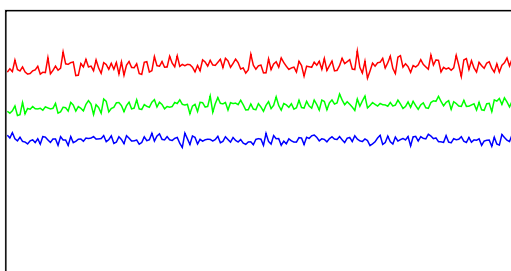
### EM

Discriminator	3.1 mV	Analog HV	2156 V	Pulse HV	1535 V
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# Performance Report

**Operator Name** ICPMS  
**Acq. Date-Time** 8/26/2024 10:42:47  
**Instrument Name** G8422A SG22151236  
**Sample Introduction** PeriPump  
**Nebulizer Type** MicroMist  
**Ion Lens Model** x-Lens  
**Tune Parameters** Standard Tune

## Sensitivity



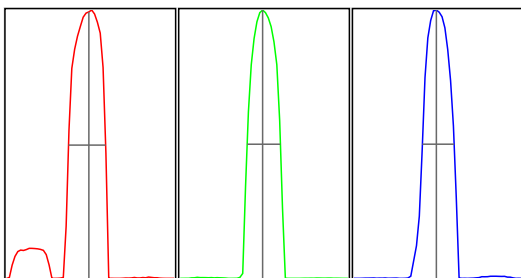
Mass	Range	Count	RSD%	Background
7	5000	3976	2.484	1.150
89	20000	12882	2.384	0.650
205	20000	10259	2.176	4.550

Sampling Period [sec] 0.311  
 Integration Time [sec] 0.1

## Oxide/Doubly Charged Ratio

Oxide 156 / 140 0.966 %  
 Doubly Charged 70 / 140 2.404 %

## Resolution/Axis



Mass	Peak Height	Axis	W-50%	W-10%
7	3956.09	7.00	0.65	0.76
89	12951.43	89.00	0.59	0.72
205	10143.58	205.00	0.56	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	1.09 L/min				

### Lens Parameters

Extract 1	0.0 V	Omega Lens	9.0 V	Deflect	12.4 V
Extract 2	-185.0 V	Cell Entrance	-30 V	Plate Bias	-35 V
Omega Bias	-100 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	190 V		

## QP Parameters

QP Bias	-3.0 V
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## Hardware Settings

### Torch

Torch H	0.3 mm	Torch H (Hot)	---	Torch H (Cool)	---
Torch V	-0.1 mm	Torch V (Hot)	---	Torch V (Cool)	---

### Plasma Correction

Nebulizer Gas Offset	0.04 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	0.03

### EM

Discriminator	3.1 mV	Analog HV	2156 V	Pulse HV	1535 V
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# Performance Report

## Meter

Name	Value	Unit
Nebulizer Gas	1.09	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	5.57E+2	kPa
+5V (Press Gage)	5.0	V
Ar AMFC Temp	31.2	°C
Nebulizer Gas(DP)	5.74E+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)	3.09E+2	kPa
MU./Dil. Gas(BP)	0.00E+0	kPa
Aux Gas(BP)	6.05E+1	kPa
Plasma Gas(BP)	4.29E+1	kPa
S/C Temp (H)	21.0	°C
S/C Temp (L)	2.0	°C
Peltier Voltage	3.1	V
IF/BK Press	2.55E+2	Pa
Analyzer Press	5.74E-5	Pa
IG HV	178	V
IG Emission	4.98	µA
TMP Revolution	100.0	%
TMP Rev (Raw)	100.6	%
TMP Current	2.80	A
PWR AMP Drain I	0.3	A
PWR AMP Bias	3.98	V
OctP RF (Avg)	192.8	V
OctP RF Set	3.7	V
OctP FET Bias Set	3.73	V
OctP RF(+)	169.2	V
OctP RF(-)	214.6	V
OctP Bias	-7.9	V
Cell Temp.	65.0	°C
Cell Heater Volt.	3.8	V
+U Voltage	177.4	V

Name	Value	Unit
-U Voltage	-188.3	V
V Voltage	1546.8	V
QPRF Fader	1.3	V
Pickup Temp	55.0	°C
PWR Amp Temp	0.1	V
+600V	620.7	V
-120V	-133.1	V
-720V	-741.5	V
Prefilter Bias	-4.98	V
Pickup Heater I	0.08	A
QP PS +48V	47.6	V
QP PS +48V I	0.00	A
Analog HV	-2162	V
Pulse HV	1546	V
EM Gate	-40.8	V
Pulse Gate	324.1	V
EM Entrance	0.1	V
EM HV Gain	-779.5	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)	60.4	V
RF PS +48V	47.4	V
Forward Power	1549	W
Reflected Power	2	W
Plasma Freq.	27.07	MHz
Drain I 1	11.68	A
Drain I 2	10.56	A
Drain I 3	11.01	A
Drain I 4	11.52	A
Temp Sensor	2.8	V
Driver I	5.98	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	5.6	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	1.71E+2	kPa
He Gas Press	0.00E+0	kPa
ORS AMFC Temp	32.1	°C
Atmospheric Press	1.02E+2	kPa
Extract 1	0.0	V
Extract 2	-185.1	V
Omega Bias	-100.0	V
Omega Lens	9.2	V
Cell Entrance	-30.0	V
Cell Exit	-50.0	V
Deflect	12.5	V
Plate Bias	-35.1	V
HV+530V	531	V
HV+240V	238	V
HV-360V	-360	V
Inlet Temp	27.1	°C
Internal Temp	35.8	°C
+24V	23.7	V
Water Temp	22.8	°C
Water RF/WC/IF	1.48	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
8/26/2024 10:42:47	3976	12882	10259
8/23/2024 09:05:16	3432	12892	9568
8/22/2024 08:43:54	3662	14009	10981
8/21/2024 08:04:13	3190	14776	11594
8/20/2024 09:20:37	4220	16080	10288
8/19/2024 10:25:21	3050	10181	8067
8/19/2024 09:17:03	3195	9903	8321
8/16/2024 08:56:38	3253	15296	12175
8/15/2024 08:28:01	3146	14138	12111
8/14/2024 08:24:41	3158	13973	11673
8/13/2024 08:51:41	3023	15070	13056
8/12/2024 09:10:43	3411	12432	11805
8/12/2024 08:57:52	1786	5237	5122
8/9/2024 11:39:50	3767	15758	13022
8/9/2024 10:08:20	12	1	3
8/8/2024 08:40:39	3024	12546	9719
8/7/2024 09:19:16	2917	12165	9488
8/6/2024 11:12:44	2859	11998	10016
8/6/2024 10:53:38	2232	10655	9558
8/5/2024 10:40:17	2691	10635	9226
8/5/2024 10:09:19	2125	6835	5664
8/5/2024 09:55:23	2365	7939	6556
8/2/2024 09:40:16	3340	11024	9295
8/2/2024 08:37:48	3505	10692	8586
8/1/2024 10:38:00	3758	12250	9330
8/1/2024 09:06:45	3389	10556	9761
7/31/2024 08:13:58	3039	11937	9529
7/30/2024 08:50:51	2533	10165	9332
7/29/2024 16:06:05	3222	12529	9934
7/29/2024 12:07:28	3037	11992	10136
7/29/2024 11:14:31	3174	12095	10013
7/29/2024 10:15:21	2846	11965	10483
7/26/2024 08:53:52	3203	12639	10549
7/25/2024 09:09:23	2585	8526	8080
7/24/2024 15:10:09	3079	9987	9009
7/24/2024 08:46:25	3148	11490	9796
7/23/2024 09:32:54	3357	11492	9580
7/22/2024 10:18:30	3442	12004	11023
7/19/2024 08:55:06	3486	11885	10185
7/18/2024 09:06:31	3257	9447	8888
7/17/2024 13:03:52	2495	9473	8373

# Performance Report

Created Date	Channel 1 Count	Channel 2 Count	Channel 3 Count
7/17/2024 08:53:29	2867	10755	8619
7/16/2024 08:54:03	2886	10903	8985
7/15/2024 10:39:29	2656	10995	8921
7/15/2024 10:30:38	103	5	6
7/15/2024 10:13:57	1404	5260	4224
7/15/2024 09:02:48	3268	12919	10156
7/12/2024 08:34:22	2706	11570	8940
7/11/2024 09:57:22	2727	11970	8459
7/10/2024 08:53:17	2246	9073	7312
7/9/2024 11:54:06	3038	12303	9808
7/9/2024 11:32:31	2139	7705	5834
7/9/2024 11:26:38	2090	7758	5904
7/9/2024 10:39:16	3437	12816	9591
7/9/2024 09:17:46	2577	11478	8879
7/9/2024 08:57:06	3286	13034	8974
7/8/2024 09:21:55	3166	12745	9642
7/8/2024 09:16:31	3066	12665	9668
7/5/2024 09:03:10	3288	13628	11266
7/3/2024 13:05:52	3539	13046	10137
7/3/2024 11:25:40	3213	12344	9957
7/3/2024 09:13:37	3169	12570	10423
7/3/2024 08:44:49	2051	12221	9873
7/2/2024 10:26:17	2328	11750	10360
7/2/2024 08:58:12	3072	10344	9707
7/1/2024 14:16:19	3282	10802	9231
7/1/2024 10:01:10	3288	12796	10476
6/28/2024 08:25:22	3484	12596	10301
6/27/2024 08:34:14	3474	12721	10120
6/27/2024 08:11:22	1666	11338	9258
6/26/2024 07:54:24	2501	8288	8428
6/25/2024 09:02:17	2627	12790	10975
6/24/2024 09:30:27	2976	12050	10056
6/21/2024 08:55:34	3096	13175	9957
6/21/2024 08:22:44	1280	11401	9041
6/20/2024 09:00:43	2564	9588	8694
6/19/2024 07:51:31	2980	11922	9704
6/18/2024 07:52:20	3296	11922	9824
6/17/2024 08:58:45	3009	9463	9003
6/14/2024 08:44:27	2879	12214	10357
6/13/2024 08:42:30	3176	12682	10526
6/12/2024 09:03:47	2996	12633	11312

# Performance Report

Created Date	Channel 1 Count	Channel 2 Count	Channel 3 Count
6/11/2024 08:44:40	3492	13252	10118
6/10/2024 09:31:51	4111	13060	10421
6/10/2024 09:17:04	3508	11070	8441
6/10/2024 09:10:07	3930	12555	9564
6/7/2024 09:02:38	3417	11597	7618
6/6/2024 15:20:20	2950	9649	8247
6/6/2024 05:03:01	3480	13184	11025
6/6/2024 04:59:28	3438	13257	11014
6/5/2024 08:30:26	3575	12412	10789
6/4/2024 08:52:51	3401	12310	11419
6/4/2024 08:39:35	2814	11768	10904
6/4/2024 08:33:37	3060	12687	11246
6/3/2024 10:10:17	3272	10175	10494
6/3/2024 09:51:43	1907	6599	4712
6/3/2024 09:44:54	2209	7627	5199
6/3/2024 09:30:49	3299	9738	9247
5/31/2024 08:42:32	3301	13328	10713
5/30/2024 09:08:46	3406	13401	10419
5/29/2024 09:04:40	3587	13162	10590
5/29/2024 08:48:40	1739	11664	8844
5/29/2024 08:44:08	1858	12854	9297
5/28/2024 09:34:37	3138	12513	10682
5/24/2024 07:20:01	3325	12857	11044
5/23/2024 10:25:13	3407	12821	11140
5/22/2024 09:45:06	3583	12763	11601
5/21/2024 09:06:58	3752	13803	11837
5/21/2024 08:01:17	3966	14413	11053
5/20/2024 17:22:27	3645	10846	9662
5/20/2024 17:18:56	3613	10801	9645
5/20/2024 09:20:56	3333	12566	10681
5/17/2024 09:12:39	3467	13701	10660
5/16/2024 08:56:23	3599	13565	10699
5/15/2024 09:38:13	3581	13159	10227
5/15/2024 09:21:01	1917	11948	9850
5/14/2024 09:41:16	3346	12368	10966
5/14/2024 09:04:40	3206	11414	12297
5/13/2024 09:04:44	2639	15138	12300
5/10/2024 08:57:17	2178	13865	10279
5/9/2024 09:06:46	2313	13292	10727
5/9/2024 08:50:21	1763	12142	9522
5/9/2024 08:44:20	1789	12171	9682



# Performance Report

Created Date	Channel 1 Count	Channel 2 Count	Channel 3 Count
5/8/2024 09:39:10	3313	11092	11044
5/7/2024 17:05:39	3463	13115	10886
5/7/2024 16:48:43	3264	12073	10628
5/7/2024 09:19:24	3347	12706	11167
5/6/2024 09:15:59	3892	14499	12724
5/6/2024 09:03:10	3843	14665	13481
5/3/2024 09:11:06	3540	13100	11548
5/2/2024 09:48:24	3670	12233	11836
5/1/2024 09:22:54	4036	13686	11251
4/30/2024 10:43:56	4361	13605	11359
4/30/2024 08:17:01	4350	13793	11664
4/29/2024 09:10:57	4751	14089	11140
4/29/2024 08:57:45	3329	9292	6892
4/26/2024 08:09:31	5054	14978	10788
4/25/2024 09:37:51	4308	13902	11794
4/24/2024 09:17:24	4876	17662	12102
4/23/2024 22:46:11	4199	16180	12059
4/23/2024 09:01:59	3715	15592	11876
4/22/2024 10:16:34	4292	15978	13578
4/19/2024 10:59:00	3974	16385	11540
4/19/2024 10:07:48	2645	8439	3189
4/19/2024 09:10:32	360162	657303	2022720
4/18/2024 09:24:23	3369	17060	12485
4/17/2024 17:03:53	2828	16000	10229
4/17/2024 16:22:27	2262	14213	9009
4/17/2024 09:09:54	3608	12353	11595
4/16/2024 09:06:44	4046	14969	11814
4/15/2024 09:14:49	4139	16052	12083
4/12/2024 08:28:21	4666	17208	13280
4/11/2024 08:35:01	4138	17113	13613
4/10/2024 09:48:58	4018	16844	14484
4/9/2024 08:56:49	3881	15432	13181
4/8/2024 09:25:48	4035	16790	14224
4/5/2024 08:28:47	3893	17251	13416
4/4/2024 11:00:01	2778	10338	7494
4/4/2024 10:45:12	4028	16465	14158
4/3/2024 08:29:42	3630	16640	12452
4/2/2024 09:43:44	3046	17903	13815
4/1/2024 09:27:15	3194	17804	13701
3/29/2024 08:53:28	2520	17006	12384
3/28/2024 09:08:20	2920	17324	12995

# Performance Report

Created Date	Channel 1 Count	Channel 2 Count	Channel 3 Count
3/27/2024 16:48:32	3382	17176	12605
3/27/2024 10:07:18	3661	16126	12723
3/27/2024 08:49:30	3929	17060	12992
3/26/2024 10:28:06	4590	16054	14855
3/25/2024 10:10:30	4003	18464	13973
3/22/2024 09:00:45	2984	17875	12893
3/21/2024 08:44:31	3167	17829	13067
3/20/2024 09:03:42	3080	17089	12389
3/19/2024 13:23:15	3786	17505	12877
3/19/2024 09:31:32	3279	17943	12421
3/18/2024 10:47:35	4608	16508	13822
3/15/2024 09:19:25	2446	16491	10868
3/14/2024 09:13:05	2441	16585	10800
3/13/2024 09:22:30	2903	16825	11325
3/12/2024 09:10:39	2653	17105	11709
3/11/2024 11:07:32	4200	16181	13057
3/11/2024 09:31:05	4293	17257	11986
3/11/2024 09:27:33	4322	17396	12106
3/8/2024 08:29:13	4145	16244	11704
3/7/2024 17:46:09	4185	15148	11811
3/7/2024 13:19:13	4029	15848	11265
3/7/2024 09:28:32	3605	13491	9204
3/7/2024 09:11:32	2580	13526	10298
3/7/2024 09:01:08	2698	13846	10718
3/6/2024 10:19:40	3208	14488	10724
3/5/2024 10:15:16	273	1743	2387
3/5/2024 10:09:01	146	892	1334
3/4/2024 11:41:00	4063	15365	11233
3/4/2024 11:28:21	1954	9059	5433
3/1/2024 08:43:28	2996	15512	8966
2/29/2024 10:38:23	4306	15354	11334
2/29/2024 10:00:25	554	3889	4359
2/29/2024 09:54:15	506	3359	3784
2/28/2024 09:32:01	3061	18229	13084
2/27/2024 09:16:47	2827	17549	11855
2/26/2024 10:30:35	3971	16379	11179
2/26/2024 10:00:21	1827	10055	6679
2/23/2024 09:07:38	3382	16511	11230
2/22/2024 08:58:48	3065	15604	10264
2/21/2024 09:51:13	3455	16190	11543
2/20/2024 09:59:52	3253	15976	11176

# Performance Report

Created Date	Channel 1 Count	Channel 2 Count	Channel 3 Count
2/19/2024 11:30:32	4894	17240	13782
2/19/2024 11:27:00	4856	17120	13743
2/19/2024 10:16:07	4289	15395	10107
2/16/2024 10:28:26	3613	15969	9007
2/15/2024 09:20:58	4185	16564	9371
2/14/2024 09:20:12	4712	16825	9695
2/13/2024 10:44:41	4401	16379	9098
2/13/2024 10:29:18	758	13401	11559
2/12/2024 11:24:46	2301	15124	11918
2/12/2024 11:09:08	53	2239	4028
2/12/2024 10:33:45	42	1954	3702
2/12/2024 10:19:52	438	2663	2740
2/12/2024 10:03:02	137	541	1027
2/9/2024 09:43:26	2475	17092	10562
2/8/2024 09:41:08	2739	17007	11011
2/7/2024 09:08:34	2949	17251	11332
2/6/2024 10:08:14	3266	17222	10352
2/5/2024 16:27:35	2590	11801	7811
2/2/2024 09:52:22	4247	15989	11850
2/1/2024 09:29:20	4221	15873	11923
1/31/2024 11:01:25	4619	16449	12370
1/31/2024 10:56:52	2140	7715	5751
1/30/2024 09:04:33	4439	15663	11799
1/29/2024 09:09:33	3916	13763	12278
1/26/2024 10:08:59	3557	15191	9410
1/25/2024 09:54:25	3735	15427	9753
1/24/2024 08:52:40	3752	15257	10201
1/23/2024 11:08:41	3473	15039	10359
1/22/2024 09:17:23	4075	16149	10348
1/22/2024 09:06:26	2984	12293	7869
1/19/2024 09:01:45	3434	14536	9100
1/18/2024 10:29:20	3342	14635	9148
1/17/2024 08:52:45	3752	15881	10390
1/16/2024 14:09:54	4332	14365	9878
1/16/2024 13:58:35	1849	8752	5553
1/16/2024 13:45:11	1759	8747	5733
1/15/2024 13:03:28	344	1843	2376
1/15/2024 10:46:25	310	1953	2595
1/15/2024 10:34:05	355	1945	2594
1/15/2024 10:25:28	354	1906	2502
1/15/2024 09:48:32	378	1867	2261

# Performance Report

Created Date	Channel 1 Count	Channel 2 Count	Channel 3 Count
1/15/2024 09:32:45	371	1842	2272
1/11/2024 14:10:39	440	1388	1671
1/11/2024 14:00:32	442	1331	1629
1/11/2024 13:07:14	441	1073	1309
1/11/2024 12:18:32	442	1296	1595
1/11/2024 10:36:51	468	1469	1987
1/11/2024 10:28:26	430	1428	1696
1/11/2024 09:11:58	387	1869	2263
1/11/2024 09:02:27	313	1592	1975
1/11/2024 08:54:00	310	1559	1944
1/10/2024 09:10:40	3490	14986	10982
1/9/2024 12:58:05	4349	14607	8180
1/9/2024 12:49:35	715	10779	7642
1/9/2024 12:37:33	8	1202	6143
1/9/2024 12:22:55	8	1215	6181
1/9/2024 12:00:03	8	1341	6546
1/9/2024 11:54:42	9	1280	6372
1/9/2024 11:45:17	9	1382	6594
1/9/2024 11:40:53	10	1397	6617
1/9/2024 11:25:08	362	1545	1665
1/9/2024 11:20:04	363	1540	1650
1/8/2024 13:49:37	3408	10281	9523
1/8/2024 12:34:48	1155	5021	6450
1/8/2024 12:30:18	1191	5187	6341
1/5/2024 09:35:49	3668	12692	8070
1/4/2024 09:13:21	3867	12894	6927
1/4/2024 09:00:57	603	1935	1257
1/3/2024 08:46:17	3809	12778	9107
1/2/2024 11:16:48	3519	12397	9390
1/2/2024 10:38:17	3814	12293	8842
12/29/2023 10:12:49	4013	12649	8816
12/28/2023 08:59:35	3766	13387	9586
12/27/2023 12:20:02	3809	12937	8800
12/27/2023 11:34:32	40	9	2
12/27/2023 10:51:04	55	31	2
12/27/2023 10:41:08	72	37	8
12/27/2023 10:33:50	3879	13288	8945
12/27/2023 10:28:28	3772	13183	8580
12/22/2023 07:49:52	3943	11892	9924
12/21/2023 08:44:43	3526	13027	9943
12/20/2023 09:26:41	4003	13172	10074

# Performance Report

Created Date	Channel 1 Count	Channel 2 Count	Channel 3 Count
12/19/2023 09:55:37	4333	13694	10285
12/18/2023 10:16:18	4138	13763	10818
12/18/2023 10:06:38	3415	13014	10962
12/18/2023 10:00:26	3894	14384	11204
12/15/2023 09:45:55	3734	14030	9513
12/14/2023 10:23:15	3524	14113	9600
12/13/2023 10:17:40	3829	13996	9570
12/12/2023 09:56:00	3555	14240	9677
12/11/2023 10:31:48	3701	14394	9382
12/8/2023 10:10:39	3664	14293	8929
12/7/2023 09:51:50	3426	13353	8809
12/6/2023 10:12:37	3698	14579	8824
12/5/2023 10:02:14	3349	13427	9922
12/4/2023 12:08:53	3427	12418	10340
12/4/2023 11:24:17	1768	7808	8292
12/4/2023 11:20:06	1802	8001	8316
12/4/2023 11:16:06	1832	8106	8250
12/4/2023 10:23:39	1770	7816	7735
12/4/2023 10:16:55	1601	7275	7827
12/4/2023 10:09:27	1944	8113	7456
12/1/2023 09:45:19	2113	9054	8466
11/30/2023 11:48:17	2317	9995	8851
11/30/2023 11:13:01	1727	8309	9089
11/30/2023 11:05:44	1721	8023	8748
11/30/2023 10:33:46	1172	5927	8124
11/29/2023 10:04:26	2359	11870	8365
11/29/2023 09:51:22	1483	5693	3444
11/28/2023 12:50:37	3146	12531	8324
11/28/2023 12:18:55	2789	8914	4789
11/28/2023 12:15:04	3346	10726	5995
11/28/2023 11:49:24	2609	8496	4878
11/28/2023 10:22:53	1529	5718	4738
11/28/2023 10:19:03	1663	6180	5204
11/28/2023 10:15:20	1784	6623	5657
11/28/2023 09:59:37	1436	6174	5639
11/27/2023 10:28:48	2148	9665	8835
11/27/2023 10:07:16	1451	7618	8440
11/27/2023 10:01:25	1454	7648	8543
11/27/2023 09:52:06	1636	8794	9323
11/22/2023 09:50:47	2317	9749	8520
11/21/2023 09:52:05	2348	10189	9398

# Performance Report

Created Date	Channel 1 Count	Channel 2 Count	Channel 3 Count
11/20/2023 09:38:08	2536	10392	9162
11/17/2023 10:07:38	2699	10664	9285
11/16/2023 09:42:56	2615	11519	10404
11/15/2023 13:01:45	2120	9780	10146
11/15/2023 12:33:52	1814	8334	9391
11/15/2023 12:27:35	1837	8353	9462
11/15/2023 12:17:35	1829	8310	9392
11/15/2023 12:09:42	1631	7760	9062
11/15/2023 10:39:09	1634	7521	8758
11/14/2023 10:25:03	4165	15167	8009
11/13/2023 09:42:07	3445	15971	9795
11/10/2023 09:15:37	3300	14607	7635
11/9/2023 09:55:52	2651	15369	8099
11/8/2023 09:55:56	2862	15545	7990
11/7/2023 10:07:52	2359	13776	7205
11/7/2023 10:01:12	1759	11245	6289
11/7/2023 09:55:11	1931	12236	6442
11/6/2023 10:21:52	3645	16323	7638
11/3/2023 09:44:39	2391	13805	7745
11/2/2023 09:56:11	2999	15000	8628
11/1/2023 09:41:33	3299	14766	7935

## Background

Created Date	Channel 1 Count	Channel 2 Count	Channel 3 Count
8/26/2024 10:42:47	1.150	0.650	4.550
8/23/2024 09:05:16	1.400	1.400	3.650
8/22/2024 08:43:54	1.050	0.850	3.250
8/21/2024 08:04:13	1.200	1.050	4.450
8/20/2024 09:20:37	1.250	1.250	5.250
8/19/2024 10:25:21	1.000	0.500	4.550
8/19/2024 09:17:03	0.900	0.650	3.700
8/16/2024 08:56:38	1.050	1.050	3.450
8/15/2024 08:28:01	1.000	0.600	3.250
8/14/2024 08:24:41	1.150	0.450	4.000
8/13/2024 08:51:41	1.200	0.450	2.850
8/12/2024 09:10:43	0.500	0.500	2.350

# Performance Report

Created Date	Channel 1 Count	Channel 2 Count	Channel 3 Count
8/12/2024 08:57:52	0.950	0.600	2.950
8/9/2024 11:39:50	1.350	0.700	4.500
8/9/2024 10:08:20	0.850	0.600	3.100
8/8/2024 08:40:39	1.200	0.500	5.750
8/7/2024 09:19:16	1.350	0.900	4.300
8/6/2024 11:12:44	1.450	0.800	3.500
8/6/2024 10:53:38	1.600	0.500	3.350
8/5/2024 10:40:17	0.600	0.750	3.150
8/5/2024 10:09:19	1.300	0.750	4.700
8/5/2024 09:55:23	0.800	0.700	5.750
8/2/2024 09:40:16	1.050	0.650	4.450
8/2/2024 08:37:48	1.300	0.700	4.600
8/1/2024 10:38:00	1.050	0.550	5.450
8/1/2024 09:06:45	0.900	0.850	3.750
7/31/2024 08:13:58	1.200	0.650	3.800
7/30/2024 08:50:51	1.100	0.650	2.400
7/29/2024 16:06:05	1.250	0.950	4.850
7/29/2024 12:07:28	1.500	0.750	4.100
7/29/2024 11:14:31	1.200	1.000	3.500
7/29/2024 10:15:21	1.250	0.800	3.900
7/26/2024 08:53:52	0.750	1.200	3.950
7/25/2024 09:09:23	0.750	0.300	2.900
7/24/2024 15:10:09	0.750	0.700	3.650
7/24/2024 08:46:25	1.100	0.650	4.200
7/23/2024 09:32:54	1.250	0.750	3.550
7/22/2024 10:18:30	1.050	0.600	4.200
7/19/2024 08:55:06	1.300	0.650	4.050
7/18/2024 09:06:31	0.700	0.600	2.950
7/17/2024 13:03:52	1.150	0.800	3.850
7/17/2024 08:53:29	1.700	0.550	5.400
7/16/2024 08:54:03	0.900	0.850	4.100
7/15/2024 10:39:29	1.050	0.750	4.650
7/15/2024 10:30:38	1.250	0.750	4.300
7/15/2024 10:13:57	1.250	0.650	4.400
7/15/2024 09:02:48	1.550	0.450	4.300
7/12/2024 08:34:22	1.200	0.850	4.100
7/11/2024 09:57:22	1.550	1.200	5.900
7/10/2024 08:53:17	1.050	0.850	2.900
7/9/2024 11:54:06	1.200	0.750	3.700
7/9/2024 11:32:31	1.000	0.450	3.700
7/9/2024 11:26:38	1.550	0.550	4.350

# Performance Report

Created Date	Channel 1 Count	Channel 2 Count	Channel 3 Count
7/9/2024 10:39:16	1.200	1.050	4.700
7/9/2024 09:17:46	1.550	0.800	4.650
7/9/2024 08:57:06	1.250	0.700	3.100
7/8/2024 09:21:55	1.700	0.950	5.050
7/8/2024 09:16:31	1.050	0.750	4.500
7/5/2024 09:03:10	1.200	0.500	3.600
7/3/2024 13:05:52	1.150	1.000	4.000
7/3/2024 11:25:40	1.500	0.850	4.500
7/3/2024 09:13:37	1.000	0.550	4.300
7/3/2024 08:44:49	0.950	0.650	3.500
7/2/2024 10:26:17	0.850	0.650	3.600
7/2/2024 08:58:12	0.900	0.850	3.350
7/1/2024 14:16:19	1.450	0.500	5.050
7/1/2024 10:01:10	1.450	0.850	3.900
6/28/2024 08:25:22	1.100	1.350	4.300
6/27/2024 08:34:14	1.350	0.900	6.000
6/27/2024 08:11:22	0.850	0.700	4.400
6/26/2024 07:54:24	0.650	0.400	2.750
6/25/2024 09:02:17	0.900	0.650	4.200
6/24/2024 09:30:27	1.250	1.100	4.150
6/21/2024 08:55:34	1.150	0.700	6.200
6/21/2024 08:22:44	1.050	0.900	3.250
6/20/2024 09:00:43	1.300	0.700	2.750
6/19/2024 07:51:31	1.500	1.400	4.900
6/18/2024 07:52:20	1.850	1.000	4.300
6/17/2024 08:58:45	1.000	0.450	2.900
6/14/2024 08:44:27	1.200	0.450	4.150
6/13/2024 08:42:30	1.100	0.850	4.800
6/12/2024 09:03:47	1.200	0.400	3.350
6/11/2024 08:44:40	1.650	0.700	3.950
6/10/2024 09:31:51	1.550	0.750	4.350
6/10/2024 09:17:04	1.250	0.450	3.800
6/10/2024 09:10:07	1.400	0.600	3.500
6/7/2024 09:02:38	1.400	0.350	3.300
6/6/2024 15:20:20	1.150	0.400	2.650
6/6/2024 05:03:01	1.500	1.100	4.650
6/6/2024 04:59:28	1.300	0.900	3.750
6/5/2024 08:30:26	1.800	1.350	4.050
6/4/2024 08:52:51	0.650	0.500	3.850
6/4/2024 08:39:35	0.850	0.500	3.450
6/4/2024 08:33:37	0.950	0.800	4.400



# Performance Report

Created Date	Channel 1 Count	Channel 2 Count	Channel 3 Count
6/3/2024 10:10:17	1.000	0.500	3.100
6/3/2024 09:51:43	2.050	0.850	4.950
6/3/2024 09:44:54	1.500	0.500	5.150
6/3/2024 09:30:49	1.100	0.350	3.050
5/31/2024 08:42:32	1.350	0.900	5.150
5/30/2024 09:08:46	1.000	0.550	4.300
5/29/2024 09:04:40	1.150	0.750	4.750
5/29/2024 08:48:40	0.700	0.550	2.700
5/29/2024 08:44:08	1.150	0.400	3.600
5/28/2024 09:34:37	1.000	0.450	3.150
5/24/2024 07:20:01	1.250	1.100	4.200
5/23/2024 10:25:13	0.900	0.900	5.100
5/22/2024 09:45:06	1.050	0.750	5.250
5/21/2024 09:06:58	1.400	1.100	5.050
5/21/2024 08:01:17	1.150	0.950	4.950
5/20/2024 17:22:27	0.900	0.750	3.800
5/20/2024 17:18:56	1.050	1.050	3.750
5/20/2024 09:20:56	0.450	0.650	3.250
5/17/2024 09:12:39	1.050	0.700	4.800
5/16/2024 08:56:23	0.900	0.750	3.850
5/15/2024 09:38:13	0.750	0.600	4.050
5/15/2024 09:21:01	0.900	0.250	3.400
5/14/2024 09:41:16	0.900	0.350	3.050
5/14/2024 09:04:40	0.600	0.350	2.100
5/13/2024 09:04:44	0.950	0.900	3.450
5/10/2024 08:57:17	0.900	0.550	5.000
5/9/2024 09:06:46	1.100	0.900	5.050
5/9/2024 08:50:21	1.150	0.700	4.800
5/9/2024 08:44:20	1.000	1.000	5.300
5/8/2024 09:39:10	1.300	0.600	3.200
5/7/2024 17:05:39	1.150	0.700	4.850
5/7/2024 16:48:43	1.050	0.800	3.600
5/7/2024 09:19:24	1.000	0.800	3.750
5/6/2024 09:15:59	0.750	0.750	4.350
5/6/2024 09:03:10	0.850	0.700	4.500
5/3/2024 09:11:06	1.150	0.500	3.350
5/2/2024 09:48:24	0.800	0.800	2.450
5/1/2024 09:22:54	1.300	0.700	5.450
4/30/2024 10:43:56	1.000	1.250	5.000
4/30/2024 08:17:01	1.150	0.950	4.100
4/29/2024 09:10:57	1.550	0.750	5.050

# Performance Report

Created Date	Channel 1 Count	Channel 2 Count	Channel 3 Count
4/29/2024 08:57:45	1.550	0.850	5.850
4/26/2024 08:09:31	1.300	0.750	5.850
4/25/2024 09:37:51	1.250	1.000	4.100
4/24/2024 09:17:24	1.600	1.450	5.400
4/23/2024 22:46:11	1.250	1.150	5.750
4/23/2024 09:01:59	0.700	0.550	4.900
4/22/2024 10:16:34	1.000	0.650	4.100
4/19/2024 10:59:00	1.050	1.050	5.250
4/19/2024 10:07:48	2.150	1.700	8.800
4/19/2024 09:10:32	0.600	0.600	1.050
4/18/2024 09:24:23	0.850	0.800	2.900
4/17/2024 17:03:53	1.350	0.800	4.300
4/17/2024 16:22:27	1.150	1.000	4.600
4/17/2024 09:09:54	0.800	0.750	2.300
4/16/2024 09:06:44	1.150	1.300	4.500
4/15/2024 09:14:49	1.200	1.150	5.300
4/12/2024 08:28:21	1.050	0.850	4.250
4/11/2024 08:35:01	0.900	0.700	4.650
4/10/2024 09:48:58	0.550	1.000	3.500
4/9/2024 08:56:49	0.700	0.700	3.500
4/8/2024 09:25:48	0.950	0.800	4.150
4/5/2024 08:28:47	1.450	0.700	5.100
4/4/2024 11:00:01	1.700	0.650	4.750
4/4/2024 10:45:12	1.100	0.750	3.200
4/3/2024 08:29:42	0.950	0.900	5.550
4/2/2024 09:43:44	0.800	0.750	2.500
4/1/2024 09:27:15	1.200	1.300	3.650
3/29/2024 08:53:28	1.250	0.900	3.350
3/28/2024 09:08:20	0.800	0.850	3.950
3/27/2024 16:48:32	1.250	1.100	4.700
3/27/2024 10:07:18	1.650	0.750	3.600
3/27/2024 08:49:30	1.700	0.600	4.200
3/26/2024 10:28:06	1.450	0.550	4.000
3/25/2024 10:10:30	1.150	0.650	4.800
3/22/2024 09:00:45	0.750	0.750	4.000
3/21/2024 08:44:31	0.900	0.450	4.000
3/20/2024 09:03:42	1.350	0.650	2.950
3/19/2024 13:23:15	1.250	0.750	3.650
3/19/2024 09:31:32	0.950	0.500	3.450
3/18/2024 10:47:35	1.150	0.550	3.550
3/15/2024 09:19:25	1.700	1.000	5.050

# Performance Report

Created Date	Channel 1 Count	Channel 2 Count	Channel 3 Count
3/14/2024 09:13:05	1.100	0.750	4.050
3/13/2024 09:22:30	1.700	0.850	3.850
3/12/2024 09:10:39	0.850	0.700	3.750
3/11/2024 11:07:32	1.650	0.850	4.300
3/11/2024 09:31:05	1.450	0.850	4.850
3/11/2024 09:27:33	1.950	0.500	4.700
3/8/2024 08:29:13	1.800	0.650	4.350
3/7/2024 17:46:09	1.250	1.050	4.550
3/7/2024 13:19:13	0.950	0.650	4.750
3/7/2024 09:28:32	2.150	1.000	4.900
3/7/2024 09:11:32	1.200	0.600	3.500
3/7/2024 09:01:08	1.250	0.700	4.350
3/6/2024 10:19:40	1.600	0.500	4.550
3/5/2024 10:15:16	45.151	868.764	0.250
3/5/2024 10:09:01	0.450	0.100	0.150
3/4/2024 11:41:00	1.650	1.000	4.400
3/4/2024 11:28:21	1.900	1.700	7.550
3/1/2024 08:43:28	1.850	1.100	5.400
2/29/2024 10:38:23	1.350	0.800	4.500
2/29/2024 10:00:25	0.850	0.450	1.150
2/29/2024 09:54:15	0.900	0.350	1.300
2/28/2024 09:32:01	1.250	0.700	3.350
2/27/2024 09:16:47	1.000	0.700	3.200
2/26/2024 10:30:35	1.750	0.700	5.350
2/26/2024 10:00:21	2.150	0.700	5.850
2/23/2024 09:07:38	1.300	0.550	3.600
2/22/2024 08:58:48	1.150	0.850	4.300
2/21/2024 09:51:13	1.000	0.650	3.750
2/20/2024 09:59:52	1.100	1.250	3.900
2/19/2024 11:30:32	1.150	0.400	3.700
2/19/2024 11:27:00	1.800	0.500	3.150
2/19/2024 10:16:07	1.100	0.750	4.100
2/16/2024 10:28:26	1.650	0.950	5.150
2/15/2024 09:20:58	1.850	0.850	5.350
2/14/2024 09:20:12	2.050	1.150	5.600
2/13/2024 10:44:41	1.700	1.150	5.800
2/13/2024 10:29:18	1.550	0.800	2.700
2/12/2024 11:24:46	1.300	0.400	3.900
2/12/2024 11:09:08	0.150	0.150	0.350
2/12/2024 10:33:45	0.450	2.300	0.100
2/12/2024 10:19:52	1.550	0.400	1.250

# Performance Report

Created Date	Channel 1 Count	Channel 2 Count	Channel 3 Count
2/12/2024 10:03:02	0.150	0.050	0.200
2/9/2024 09:43:26	1.600	0.400	3.200
2/8/2024 09:41:08	1.600	0.800	3.200
2/7/2024 09:08:34	1.200	0.550	3.550
2/6/2024 10:08:14	1.650	1.550	4.100
2/5/2024 16:27:35	1.100	0.550	3.400
2/2/2024 09:52:22	1.250	0.600	5.350
2/1/2024 09:29:20	1.000	0.550	5.000
1/31/2024 11:01:25	1.300	0.650	4.650
1/31/2024 10:56:52	1.200	0.800	5.700
1/30/2024 09:04:33	0.900	0.650	5.400
1/29/2024 09:09:33	1.100	0.650	4.000
1/26/2024 10:08:59	1.450	1.050	5.000
1/25/2024 09:54:25	1.350	0.850	3.950
1/24/2024 08:52:40	1.300	0.900	3.900
1/23/2024 11:08:41	1.000	0.900	3.450
1/22/2024 09:17:23	1.300	0.800	5.500
1/22/2024 09:06:26	1.750	0.650	4.050
1/19/2024 09:01:45	1.750	1.000	4.000
1/18/2024 10:29:20	1.250	0.650	3.600
1/17/2024 08:52:45	1.550	0.650	4.250
1/16/2024 14:09:54	1.450	0.650	4.150
1/16/2024 13:58:35	1.450	0.800	3.350
1/16/2024 13:45:11	1.050	0.600	3.600
1/15/2024 13:03:28	0.750	0.200	0.700
1/15/2024 10:46:25	0.800	0.100	0.400
1/15/2024 10:34:05	0.800	0.100	0.750
1/15/2024 10:25:28	1.350	0.150	0.800
1/15/2024 09:48:32	0.950	0.250	0.450
1/15/2024 09:32:45	1.050	0.350	0.600
1/11/2024 14:10:39	0.900	0.150	0.200
1/11/2024 14:00:32	0.700	0.050	0.250
1/11/2024 13:07:14	0.600	0.150	0.250
1/11/2024 12:18:32	0.550	0.050	0.400
1/11/2024 10:36:51	0.450	0.100	0.250
1/11/2024 10:28:26	0.550	0.050	0.200
1/11/2024 09:11:58	0.300	0.150	0.500
1/11/2024 09:02:27	0.700	0.200	0.500
1/11/2024 08:54:00	0.450	0.100	0.600
1/10/2024 09:10:40	1.400	1.000	4.400
1/9/2024 12:58:05	2.000	0.800	4.900

# Performance Report

Created Date	Channel 1 Count	Channel 2 Count	Channel 3 Count
1/9/2024 12:49:35	1.200	0.450	1.750
1/9/2024 12:37:33	0.000	0.050	0.200
1/9/2024 12:22:55	0.050	0.050	0.000
1/9/2024 12:00:03	0.000	0.050	0.100
1/9/2024 11:54:42	0.000	0.000	0.050
1/9/2024 11:45:17	0.100	0.000	0.050
1/9/2024 11:40:53	0.050	0.000	0.050
1/9/2024 11:25:08	0.450	0.050	0.200
1/9/2024 11:20:04	0.250	0.100	0.200
1/8/2024 13:49:37	0.950	0.550	2.650
1/8/2024 12:34:48	0.350	0.150	0.600
1/8/2024 12:30:18	0.250	0.300	0.450
1/5/2024 09:35:49	1.250	0.450	3.900
1/4/2024 09:13:21	1.100	0.750	4.350
1/4/2024 09:00:57	1.400	0.450	2.950
1/3/2024 08:46:17	1.250	0.600	3.200
1/2/2024 11:16:48	1.350	0.300	2.800
1/2/2024 10:38:17	1.250	0.800	2.900
12/29/2023 10:12:49	0.850	0.500	3.100
12/28/2023 08:59:35	1.000	0.800	3.550
12/27/2023 12:20:02	1.000	0.600	3.150
12/27/2023 11:34:32	0.800	0.650	3.450
12/27/2023 10:51:04	1.000	0.800	3.000
12/27/2023 10:41:08	1.200	0.400	3.400
12/27/2023 10:33:50	1.500	0.650	3.500
12/27/2023 10:28:28	0.950	0.600	3.300
12/22/2023 07:49:52	0.850	0.450	2.400
12/21/2023 08:44:43	1.050	0.450	2.150
12/20/2023 09:26:41	0.600	0.350	3.500
12/19/2023 09:55:37	1.150	0.550	2.600
12/18/2023 10:16:18	0.700	0.400	2.100
12/18/2023 10:06:38	0.900	0.150	2.400
12/18/2023 10:00:26	1.150	0.200	2.950
12/15/2023 09:45:55	1.000	0.800	3.050
12/14/2023 10:23:15	0.350	0.850	2.950
12/13/2023 10:17:40	0.650	0.250	2.800
12/12/2023 09:56:00	0.950	0.600	2.700
12/11/2023 10:31:48	1.350	0.200	2.550
12/8/2023 10:10:39	0.950	0.600	3.250
12/7/2023 09:51:50	0.850	0.300	2.550
12/6/2023 10:12:37	1.050	0.750	3.550

# Performance Report

Created Date	Channel 1 Count	Channel 2 Count	Channel 3 Count
12/5/2023 10:02:14	0.600	0.450	1.750
12/4/2023 12:08:53	0.600	0.300	2.500
12/4/2023 11:24:17	0.350	0.200	1.300
12/4/2023 11:20:06	0.500	0.250	0.850
12/4/2023 11:16:06	0.150	0.500	1.150
12/4/2023 10:23:39	0.300	0.150	1.400
12/4/2023 10:16:55	0.300	0.350	0.950
12/4/2023 10:09:27	0.400	0.300	1.100
12/1/2023 09:45:19	0.550	0.500	1.500
11/30/2023 11:48:17	0.450	0.350	1.950
11/30/2023 11:13:01	0.450	0.100	1.200
11/30/2023 11:05:44	0.500	0.050	1.150
11/30/2023 10:33:46	0.150	0.200	0.700
11/29/2023 10:04:26	0.850	0.450	2.200
11/29/2023 09:51:22	0.750	0.300	2.400
11/28/2023 12:50:37	1.000	0.550	2.650
11/28/2023 12:18:55	0.800	0.700	3.500
11/28/2023 12:15:04	0.500	0.450	3.050
11/28/2023 11:49:24	0.900	0.450	3.200
11/28/2023 10:22:53	0.650	0.350	1.800
11/28/2023 10:19:03	0.550	0.400	1.950
11/28/2023 10:15:20	0.200	0.200	1.650
11/28/2023 09:59:37	0.250	0.200	1.500
11/27/2023 10:28:48	0.300	0.200	1.850
11/27/2023 10:07:16	0.300	0.100	1.500
11/27/2023 10:01:25	0.500	0.150	1.150
11/27/2023 09:52:06	0.500	0.150	1.250
11/22/2023 09:50:47	0.500	0.300	1.700
11/21/2023 09:52:05	0.650	0.250	1.200
11/20/2023 09:38:08	0.200	0.350	1.450
11/17/2023 10:07:38	0.250	0.100	2.450
11/16/2023 09:42:56	0.350	0.350	2.750
11/15/2023 13:01:45	0.550	0.100	1.700
11/15/2023 12:33:52	0.350	0.250	0.900
11/15/2023 12:27:35	0.150	0.250	1.300
11/15/2023 12:17:35	0.400	0.200	0.900
11/15/2023 12:09:42	0.450	0.150	1.350
11/15/2023 10:39:09	0.200	0.100	1.150
11/14/2023 10:25:03	1.600	0.750	4.550
11/13/2023 09:42:07	1.000	0.350	3.300
11/10/2023 09:15:37	0.950	0.650	3.000

# Performance Report

Created Date	Channel 1 Count	Channel 2 Count	Channel 3 Count
11/9/2023 09:55:52	0.850	0.450	2.800
11/8/2023 09:55:56	1.100	0.450	3.550
11/7/2023 10:07:52	1.150	0.800	3.850
11/7/2023 10:01:12	0.750	0.350	2.550
11/7/2023 09:55:11	1.000	0.350	3.150
11/6/2023 10:21:52	1.450	0.800	3.700
11/3/2023 09:44:39	1.250	0.600	4.000
11/2/2023 09:56:11	1.350	0.500	3.200
11/1/2023 09:41:33	1.550	0.700	4.000

## Tune Parameters

Created Date	Extract 1	Extract 2	Omega Bias
8/26/2024 10:42:47	0.0 V	-185.0 V	-100 V
8/23/2024 09:05:16	0.0 V	-140.0 V	-70 V
8/22/2024 08:43:54	0.0 V	-160.0 V	-70 V
8/21/2024 08:04:13	0.0 V	-200.0 V	-80 V
8/20/2024 09:20:37	0.0 V	-190.0 V	-100 V
8/19/2024 10:25:21	0.0 V	-185.0 V	-80 V
8/19/2024 09:17:03	0.0 V	-165.0 V	-80 V
8/16/2024 08:56:38	0.0 V	-180.0 V	-80 V
8/15/2024 08:28:01	0.0 V	-165.0 V	-80 V
8/14/2024 08:24:41	0.0 V	-175.0 V	-80 V
8/13/2024 08:51:41	0.0 V	-185.0 V	-80 V
8/12/2024 09:10:43	0.0 V	-160.0 V	-80 V
8/12/2024 08:57:52	0.0 V	-180.0 V	-80 V
8/9/2024 11:39:50	0.0 V	-195.0 V	-90 V
8/9/2024 10:08:20	0.0 V	-195.0 V	-90 V
8/8/2024 08:40:39	0.0 V	-195.0 V	-90 V
8/7/2024 09:19:16	0.0 V	-195.0 V	-90 V
8/6/2024 11:12:44	0.0 V	-200.0 V	-80 V
8/6/2024 10:53:38	0.0 V	-200.0 V	-80 V
8/5/2024 10:40:17	0.0 V	-200.0 V	-80 V
8/5/2024 10:09:19	0.0 V	-200.0 V	-90 V
8/5/2024 09:55:23	0.0 V	-195.0 V	-90 V
8/2/2024 09:40:16	0.0 V	-190.0 V	-90 V
8/2/2024 08:37:48	0.0 V	-190.0 V	-90 V

# Performance Report

Created Date	Extract 1	Extract 2	Omega Bias
8/1/2024 10:38:00	0.0 V	-180.0 V	-90 V
8/1/2024 09:06:45	0.0 V	-175.0 V	-90 V
7/31/2024 08:13:58	0.0 V	-185.0 V	-90 V
7/30/2024 08:50:51	0.0 V	-180.0 V	-90 V
7/29/2024 16:06:05	0.0 V	-190.0 V	-90 V
7/29/2024 12:07:28	0.0 V	-195.0 V	-90 V
7/29/2024 11:14:31	0.0 V	-195.0 V	-100 V
7/29/2024 10:15:21	0.0 V	-180.0 V	-90 V
7/26/2024 08:53:52	0.0 V	-190.0 V	-90 V
7/25/2024 09:09:23	0.0 V	-165.0 V	-90 V
7/24/2024 15:10:09	0.0 V	-185.0 V	-90 V
7/24/2024 08:46:25	0.0 V	-180.0 V	-90 V
7/23/2024 09:32:54	0.0 V	-180.0 V	-90 V
7/22/2024 10:18:30	0.0 V	-185.0 V	-90 V
7/19/2024 08:55:06	0.0 V	-190.0 V	-90 V
7/18/2024 09:06:31	0.0 V	-175.0 V	-90 V
7/17/2024 13:03:52	0.0 V	-185.0 V	-90 V
7/17/2024 08:53:29	0.0 V	-185.0 V	-90 V
7/16/2024 08:54:03	0.0 V	-190.0 V	-90 V
7/15/2024 10:39:29	0.0 V	-195.0 V	-90 V
7/15/2024 10:30:38	0.0 V	-180.0 V	-90 V
7/15/2024 10:13:57	0.0 V	-180.0 V	-90 V
7/15/2024 09:02:48	0.0 V	-185.0 V	-90 V
7/12/2024 08:34:22	0.0 V	-175.0 V	-90 V
7/11/2024 09:57:22	0.0 V	-180.0 V	-80 V
7/10/2024 08:53:17	0.0 V	-150.0 V	-70 V
7/9/2024 11:54:06	0.0 V	-155.0 V	-70 V
7/9/2024 11:32:31	0.0 V	-155.0 V	-70 V
7/9/2024 11:26:38	0.0 V	-155.0 V	-70 V
7/9/2024 10:39:16	0.0 V	-155.0 V	-70 V
7/9/2024 09:17:46	0.0 V	-155.0 V	-70 V
7/9/2024 08:57:06	0.0 V	-140.0 V	-70 V
7/8/2024 09:21:55	0.0 V	-165.0 V	-80 V
7/8/2024 09:16:31	0.0 V	-160.0 V	-80 V
7/5/2024 09:03:10	0.0 V	-200.0 V	-90 V
7/3/2024 13:05:52	0.0 V	-195.0 V	-100 V
7/3/2024 11:25:40	0.0 V	-195.0 V	-90 V
7/3/2024 09:13:37	0.0 V	-195.0 V	-90 V
7/3/2024 08:44:49	0.0 V	-170.0 V	-90 V
7/2/2024 10:26:17	0.0 V	-170.0 V	-90 V
7/2/2024 08:58:12	0.0 V	-170.0 V	-90 V



# Performance Report

Created Date	Extract 1	Extract 2	Omega Bias
7/1/2024 14:16:19	0.0 V	-190.0 V	-90 V
7/1/2024 10:01:10	0.0 V	-195.0 V	-90 V
6/28/2024 08:25:22	0.0 V	-195.0 V	-90 V
6/27/2024 08:34:14	0.0 V	-195.0 V	-90 V
6/27/2024 08:11:22	0.0 V	-175.0 V	-90 V
6/26/2024 07:54:24	0.0 V	-175.0 V	-90 V
6/25/2024 09:02:17	0.0 V	-190.0 V	-90 V
6/24/2024 09:30:27	0.0 V	-190.0 V	-90 V
6/21/2024 08:55:34	0.0 V	-200.0 V	-90 V
6/21/2024 08:22:44	0.0 V	-170.0 V	-90 V
6/20/2024 09:00:43	0.0 V	-170.0 V	-90 V
6/19/2024 07:51:31	0.0 V	-175.0 V	-90 V
6/18/2024 07:52:20	0.0 V	-175.0 V	-90 V
6/17/2024 08:58:45	0.0 V	-175.0 V	-90 V
6/14/2024 08:44:27	0.0 V	-195.0 V	-90 V
6/13/2024 08:42:30	0.0 V	-200.0 V	-100 V
6/12/2024 09:03:47	0.0 V	-200.0 V	-100 V
6/11/2024 08:44:40	0.0 V	-185.0 V	-100 V
6/10/2024 09:31:51	0.0 V	-170.0 V	-90 V
6/10/2024 09:17:04	0.0 V	-165.0 V	-90 V
6/10/2024 09:10:07	0.0 V	-165.0 V	-90 V
6/7/2024 09:02:38	0.0 V	-165.0 V	-90 V
6/6/2024 15:20:20	0.0 V	-165.0 V	-90 V
6/6/2024 05:03:01	0.0 V	-190.0 V	-90 V
6/6/2024 04:59:28	0.0 V	-190.0 V	-90 V
6/5/2024 08:30:26	0.0 V	-190.0 V	-90 V
6/4/2024 08:52:51	0.0 V	-200.0 V	-90 V
6/4/2024 08:39:35	0.0 V	-200.0 V	-100 V
6/4/2024 08:33:37	0.0 V	-200.0 V	-100 V
6/3/2024 10:10:17	0.0 V	-200.0 V	-100 V
6/3/2024 09:51:43	0.0 V	-175.0 V	-100 V
6/3/2024 09:44:54	0.0 V	-175.0 V	-100 V
6/3/2024 09:30:49	0.0 V	-175.0 V	-100 V
5/31/2024 08:42:32	0.0 V	-200.0 V	-100 V
5/30/2024 09:08:46	0.0 V	-200.0 V	-100 V
5/29/2024 09:04:40	0.0 V	-200.0 V	-100 V
5/29/2024 08:48:40	0.0 V	-170.0 V	-80 V
5/29/2024 08:44:08	0.0 V	-170.0 V	-80 V
5/28/2024 09:34:37	0.0 V	-170.0 V	-80 V
5/24/2024 07:20:01	0.0 V	-200.0 V	-90 V
5/23/2024 10:25:13	0.0 V	-200.0 V	-90 V

# Performance Report

Created Date	Extract 1	Extract 2	Omega Bias
5/22/2024 09:45:06	0.0 V	-200.0 V	-90 V
5/21/2024 09:06:58	0.0 V	-200.0 V	-90 V
5/21/2024 08:01:17	0.0 V	-200.0 V	-100 V
5/20/2024 17:22:27	0.0 V	-200.0 V	-100 V
5/20/2024 17:18:56	0.0 V	-200.0 V	-100 V
5/20/2024 09:20:56	0.0 V	-200.0 V	-100 V
5/17/2024 09:12:39	0.0 V	-200.0 V	-100 V
5/16/2024 08:56:23	0.0 V	-200.0 V	-100 V
5/15/2024 09:38:13	0.0 V	-200.0 V	-100 V
5/15/2024 09:21:01	0.0 V	-190.0 V	-90 V
5/14/2024 09:41:16	0.0 V	-190.0 V	-90 V
5/14/2024 09:04:40	0.0 V	-190.0 V	-90 V
5/13/2024 09:04:44	0.0 V	-190.0 V	-90 V
5/10/2024 08:57:17	0.0 V	-190.0 V	-90 V
5/9/2024 09:06:46	0.0 V	-190.0 V	-90 V
5/9/2024 08:50:21	0.0 V	-190.0 V	-90 V
5/9/2024 08:44:20	0.0 V	-190.0 V	-90 V
5/8/2024 09:39:10	0.0 V	-190.0 V	-90 V
5/7/2024 17:05:39	0.0 V	-195.0 V	-100 V
5/7/2024 16:48:43	0.0 V	-195.0 V	-100 V
5/7/2024 09:19:24	0.0 V	-195.0 V	-100 V
5/6/2024 09:15:59	0.0 V	-195.0 V	-100 V
5/6/2024 09:03:10	0.0 V	-195.0 V	-100 V
5/3/2024 09:11:06	0.0 V	-195.0 V	-100 V
5/2/2024 09:48:24	0.0 V	-190.0 V	-100 V
5/1/2024 09:22:54	0.0 V	-185.0 V	-100 V
4/30/2024 10:43:56	0.0 V	-185.0 V	-100 V
4/30/2024 08:17:01	0.0 V	-185.0 V	-100 V
4/29/2024 09:10:57	0.0 V	-185.0 V	-100 V
4/29/2024 08:57:45	0.0 V	-185.0 V	-100 V
4/26/2024 08:09:31	0.0 V	-185.0 V	-100 V
4/25/2024 09:37:51	0.0 V	-185.0 V	-100 V
4/24/2024 09:17:24	0.0 V	-195.0 V	-100 V
4/23/2024 22:46:11	0.0 V	-195.0 V	-100 V
4/23/2024 09:01:59	0.0 V	-195.0 V	-100 V
4/22/2024 10:16:34	0.0 V	-195.0 V	-100 V
4/19/2024 10:59:00	0.0 V	-200.0 V	-100 V
4/19/2024 10:07:48	0.0 V	-200.0 V	-110 V
4/19/2024 09:10:32	0.0 V	-180.0 V	-100 V
4/18/2024 09:24:23	0.0 V	-180.0 V	-100 V
4/17/2024 17:03:53	0.0 V	-180.0 V	-100 V

# Performance Report

Created Date	Extract 1	Extract 2	Omega Bias
4/17/2024 16:22:27	0.0 V	-180.0 V	-100 V
4/17/2024 09:09:54	0.0 V	-180.0 V	-100 V
4/16/2024 09:06:44	0.0 V	-200.0 V	-100 V
4/15/2024 09:14:49	0.0 V	-200.0 V	-100 V
4/12/2024 08:28:21	0.0 V	-200.0 V	-100 V
4/11/2024 08:35:01	0.0 V	-200.0 V	-100 V
4/10/2024 09:48:58	0.0 V	-195.0 V	-100 V
4/9/2024 08:56:49	0.0 V	-195.0 V	-100 V
4/8/2024 09:25:48	0.0 V	-195.0 V	-100 V
4/5/2024 08:28:47	0.0 V	-195.0 V	-100 V
4/4/2024 11:00:01	0.0 V	-190.0 V	-90 V
4/4/2024 10:45:12	0.0 V	-200.0 V	-90 V
4/3/2024 08:29:42	0.0 V	-200.0 V	-90 V
4/2/2024 09:43:44	0.0 V	-195.0 V	-90 V
4/1/2024 09:27:15	0.0 V	-195.0 V	-90 V
3/29/2024 08:53:28	0.0 V	-195.0 V	-90 V
3/28/2024 09:08:20	0.0 V	-195.0 V	-90 V
3/27/2024 16:48:32	0.0 V	-195.0 V	-90 V
3/27/2024 10:07:18	0.0 V	-195.0 V	-90 V
3/27/2024 08:49:30	0.0 V	-195.0 V	-90 V
3/26/2024 10:28:06	0.0 V	-195.0 V	-90 V
3/25/2024 10:10:30	0.0 V	-200.0 V	-100 V
3/22/2024 09:00:45	0.0 V	-190.0 V	-100 V
3/21/2024 08:44:31	0.0 V	-190.0 V	-100 V
3/20/2024 09:03:42	0.0 V	-190.0 V	-100 V
3/19/2024 13:23:15	0.0 V	-190.0 V	-100 V
3/19/2024 09:31:32	0.0 V	-190.0 V	-100 V
3/18/2024 10:47:35	0.0 V	-190.0 V	-100 V
3/15/2024 09:19:25	0.0 V	-200.0 V	-90 V
3/14/2024 09:13:05	0.0 V	-200.0 V	-90 V
3/13/2024 09:22:30	0.0 V	-200.0 V	-90 V
3/12/2024 09:10:39	0.0 V	-200.0 V	-90 V
3/11/2024 11:07:32	0.0 V	-200.0 V	-90 V
3/11/2024 09:31:05	0.0 V	-195.0 V	-100 V
3/11/2024 09:27:33	0.0 V	-195.0 V	-100 V
3/8/2024 08:29:13	0.0 V	-200.0 V	-100 V
3/7/2024 17:46:09	0.0 V	-200.0 V	-100 V
3/7/2024 13:19:13	0.0 V	-200.0 V	-100 V
3/7/2024 09:28:32	0.0 V	-200.0 V	-100 V
3/7/2024 09:11:32	0.0 V	-200.0 V	-100 V
3/7/2024 09:01:08	0.0 V	-200.0 V	-100 V

# Performance Report

Created Date	Extract 1	Extract 2	Omega Bias
3/6/2024 10:19:40	0.0 V	-200.0 V	-100 V
3/5/2024 10:15:16	0.0 V	-200.0 V	-100 V
3/5/2024 10:09:01	0.0 V	-200.0 V	-100 V
3/4/2024 11:41:00	0.0 V	-200.0 V	-100 V
3/4/2024 11:28:21	0.0 V	-200.0 V	-100 V
3/1/2024 08:43:28	0.0 V	-200.0 V	-120 V
2/29/2024 10:38:23	0.0 V	-200.0 V	-120 V
2/29/2024 10:00:25	0.0 V	-160.0 V	-110 V
2/29/2024 09:54:15	0.0 V	-160.0 V	-110 V
2/28/2024 09:32:01	0.0 V	-200.0 V	-100 V
2/27/2024 09:16:47	0.0 V	-200.0 V	-100 V
2/26/2024 10:30:35	0.0 V	-200.0 V	-100 V
2/26/2024 10:00:21	0.0 V	-200.0 V	-110 V
2/23/2024 09:07:38	0.0 V	-200.0 V	-110 V
2/22/2024 08:58:48	0.0 V	-200.0 V	-110 V
2/21/2024 09:51:13	0.0 V	-200.0 V	-110 V
2/20/2024 09:59:52	0.0 V	-200.0 V	-110 V
2/19/2024 11:30:32	0.0 V	-200.0 V	-110 V
2/19/2024 11:27:00	0.0 V	-200.0 V	-110 V
2/19/2024 10:16:07	0.0 V	-200.0 V	-120 V
2/16/2024 10:28:26	0.0 V	-200.0 V	-120 V
2/15/2024 09:20:58	0.0 V	-200.0 V	-120 V
2/14/2024 09:20:12	0.0 V	-200.0 V	-120 V
2/13/2024 10:44:41	0.0 V	-200.0 V	-120 V
2/13/2024 10:29:18	0.0 V	-200.0 V	-120 V
2/12/2024 11:24:46	0.0 V	-200.0 V	-120 V
2/12/2024 11:09:08	0.0 V	-175.0 V	-120 V
2/12/2024 10:33:45	0.0 V	-175.0 V	-120 V
2/12/2024 10:19:52	0.0 V	-175.0 V	-120 V
2/12/2024 10:03:02	0.0 V	-200.0 V	-100 V
2/9/2024 09:43:26	0.0 V	-200.0 V	-100 V
2/8/2024 09:41:08	0.0 V	-200.0 V	-100 V
2/7/2024 09:08:34	0.0 V	-200.0 V	-100 V
2/6/2024 10:08:14	0.0 V	-200.0 V	-100 V
2/5/2024 16:27:35	0.0 V	-200.0 V	-120 V
2/2/2024 09:52:22	0.0 V	-200.0 V	-90 V
2/1/2024 09:29:20	0.0 V	-200.0 V	-90 V
1/31/2024 11:01:25	0.0 V	-200.0 V	-90 V
1/31/2024 10:56:52	0.0 V	-200.0 V	-90 V
1/30/2024 09:04:33	0.0 V	-200.0 V	-90 V
1/29/2024 09:09:33	0.0 V	-200.0 V	-90 V

# Performance Report

Created Date	Extract 1	Extract 2	Omega Bias
1/26/2024 10:08:59	0.0 V	-200.0 V	-90 V
1/25/2024 09:54:25	0.0 V	-200.0 V	-90 V
1/24/2024 08:52:40	0.0 V	-200.0 V	-90 V
1/23/2024 11:08:41	0.0 V	-200.0 V	-90 V
1/22/2024 09:17:23	0.0 V	-200.0 V	-90 V
1/22/2024 09:06:26	0.0 V	-200.0 V	-100 V
1/19/2024 09:01:45	0.0 V	-200.0 V	-100 V
1/18/2024 10:29:20	0.0 V	-200.0 V	-100 V
1/17/2024 08:52:45	0.0 V	-200.0 V	-100 V
1/16/2024 14:09:54	0.0 V	-200.0 V	-100 V
1/16/2024 13:58:35	0.0 V	-200.0 V	-100 V
1/16/2024 13:45:11	0.0 V	-200.0 V	-100 V
1/15/2024 13:03:28	0.0 V	-200.0 V	-120 V
1/15/2024 10:46:25	0.0 V	-200.0 V	-120 V
1/15/2024 10:34:05	0.0 V	-200.0 V	-120 V
1/15/2024 10:25:28	0.0 V	-200.0 V	-120 V
1/15/2024 09:48:32	0.0 V	-200.0 V	-120 V
1/15/2024 09:32:45	0.0 V	-200.0 V	-120 V
1/11/2024 14:10:39	0.0 V	-200.0 V	-120 V
1/11/2024 14:00:32	0.0 V	-200.0 V	-120 V
1/11/2024 13:07:14	0.0 V	-200.0 V	-120 V
1/11/2024 12:18:32	0.0 V	-200.0 V	-120 V
1/11/2024 10:36:51	0.0 V	-200.0 V	-120 V
1/11/2024 10:28:26	0.0 V	-185.0 V	-110 V
1/11/2024 09:11:58	0.0 V	-155.0 V	-100 V
1/11/2024 09:02:27	0.0 V	-150.0 V	-80 V
1/11/2024 08:54:00	0.0 V	-150.0 V	-80 V
1/10/2024 09:10:40	0.0 V	-200.0 V	-90 V
1/9/2024 12:58:05	0.0 V	-200.0 V	-120 V
1/9/2024 12:49:35	0.0 V	-200.0 V	-120 V
1/9/2024 12:37:33	0.0 V	-165.0 V	-100 V
1/9/2024 12:22:55	0.0 V	-165.0 V	-100 V
1/9/2024 12:00:03	0.0 V	-165.0 V	-100 V
1/9/2024 11:54:42	0.0 V	-165.0 V	-100 V
1/9/2024 11:45:17	0.0 V	-165.0 V	-100 V
1/9/2024 11:40:53	0.0 V	-165.0 V	-100 V
1/9/2024 11:25:08	0.0 V	-165.0 V	-100 V
1/9/2024 11:20:04	0.0 V	-165.0 V	-100 V
1/8/2024 13:49:37	0.0 V	-200.0 V	-100 V
1/8/2024 12:34:48	0.0 V	-140.0 V	-80 V
1/8/2024 12:30:18	0.0 V	-140.0 V	-80 V

# Performance Report

Created Date	Extract 1	Extract 2	Omega Bias
1/5/2024 09:35:49	0.0 V	-180.0 V	-80 V
1/4/2024 09:13:21	0.0 V	-170.0 V	-80 V
1/4/2024 09:00:57	0.0 V	-160.0 V	-80 V
1/3/2024 08:46:17	0.0 V	-200.0 V	-100 V
1/2/2024 11:16:48	0.0 V	-200.0 V	-90 V
1/2/2024 10:38:17	0.0 V	-200.0 V	-100 V
12/29/2023 10:12:49	0.0 V	-200.0 V	-100 V
12/28/2023 08:59:35	0.0 V	-200.0 V	-90 V
12/27/2023 12:20:02	0.0 V	-200.0 V	-90 V
12/27/2023 11:34:32	0.0 V	-200.0 V	-90 V
12/27/2023 10:51:04	0.0 V	-200.0 V	-90 V
12/27/2023 10:41:08	0.0 V	-200.0 V	-90 V
12/27/2023 10:33:50	0.0 V	-200.0 V	-90 V
12/27/2023 10:28:28	0.0 V	-200.0 V	-90 V
12/22/2023 07:49:52	0.0 V	-195.0 V	-90 V
12/21/2023 08:44:43	0.0 V	-200.0 V	-90 V
12/20/2023 09:26:41	0.0 V	-200.0 V	-100 V
12/19/2023 09:55:37	0.0 V	-200.0 V	-100 V
12/18/2023 10:16:18	0.0 V	-200.0 V	-100 V
12/18/2023 10:06:38	0.0 V	-185.0 V	-90 V
12/18/2023 10:00:26	0.0 V	-185.0 V	-90 V
12/15/2023 09:45:55	0.0 V	-200.0 V	-90 V
12/14/2023 10:23:15	0.0 V	-200.0 V	-90 V
12/13/2023 10:17:40	0.0 V	-200.0 V	-90 V
12/12/2023 09:56:00	0.0 V	-200.0 V	-90 V
12/11/2023 10:31:48	0.0 V	-200.0 V	-90 V
12/8/2023 10:10:39	0.0 V	-200.0 V	-100 V
12/7/2023 09:51:50	0.0 V	-190.0 V	-80 V
12/6/2023 10:12:37	0.0 V	-200.0 V	-100 V
12/5/2023 10:02:14	0.0 V	-200.0 V	-80 V
12/4/2023 12:08:53	0.0 V	-180.0 V	-90 V
12/4/2023 11:24:17	0.0 V	-145.0 V	-70 V
12/4/2023 11:20:06	0.0 V	-145.0 V	-70 V
12/4/2023 11:16:06	0.0 V	-145.0 V	-70 V
12/4/2023 10:23:39	0.0 V	-145.0 V	-70 V
12/4/2023 10:16:55	0.0 V	-170.0 V	-90 V
12/4/2023 10:09:27	0.0 V	-145.0 V	-70 V
12/1/2023 09:45:19	0.0 V	-155.0 V	-80 V
11/30/2023 11:48:17	0.0 V	-155.0 V	-80 V
11/30/2023 11:13:01	0.0 V	-150.0 V	-80 V
11/30/2023 11:05:44	0.0 V	-160.0 V	-90 V

# Performance Report

Created Date	Extract 1	Extract 2	Omega Bias
11/30/2023 10:33:46	0.0 V	-170.0 V	-90 V
11/29/2023 10:04:26	0.0 V	-195.0 V	-100 V
11/29/2023 09:51:22	0.0 V	-190.0 V	-80 V
11/28/2023 12:50:37	0.0 V	-200.0 V	-80 V
11/28/2023 12:18:55	0.0 V	-175.0 V	-80 V
11/28/2023 12:15:04	0.0 V	-175.0 V	-80 V
11/28/2023 11:49:24	0.0 V	-170.0 V	-80 V
11/28/2023 10:22:53	0.0 V	-165.0 V	-80 V
11/28/2023 10:19:03	0.0 V	-165.0 V	-80 V
11/28/2023 10:15:20	0.0 V	-165.0 V	-80 V
11/28/2023 09:59:37	0.0 V	-170.0 V	-70 V
11/27/2023 10:28:48	0.0 V	-165.0 V	-80 V
11/27/2023 10:07:16	0.0 V	-185.0 V	-100 V
11/27/2023 10:01:25	0.0 V	-185.0 V	-100 V
11/27/2023 09:52:06	0.0 V	-185.0 V	-100 V
11/22/2023 09:50:47	0.0 V	-155.0 V	-80 V
11/21/2023 09:52:05	0.0 V	-155.0 V	-80 V
11/20/2023 09:38:08	0.0 V	-150.0 V	-80 V
11/17/2023 10:07:38	0.0 V	-175.0 V	-90 V
11/16/2023 09:42:56	0.0 V	-180.0 V	-90 V
11/15/2023 13:01:45	0.0 V	-170.0 V	-90 V
11/15/2023 12:33:52	0.0 V	-175.0 V	-90 V
11/15/2023 12:27:35	0.0 V	-175.0 V	-90 V
11/15/2023 12:17:35	0.0 V	-175.0 V	-90 V
11/15/2023 12:09:42	0.0 V	-170.0 V	-90 V
11/15/2023 10:39:09	0.0 V	-175.0 V	-90 V
11/14/2023 10:25:03	0.0 V	-200.0 V	-90 V
11/13/2023 09:42:07	0.0 V	-200.0 V	-90 V
11/10/2023 09:15:37	0.0 V	-200.0 V	-90 V
11/9/2023 09:55:52	0.0 V	-200.0 V	-90 V
11/8/2023 09:55:56	0.0 V	-200.0 V	-100 V
11/7/2023 10:07:52	0.0 V	-200.0 V	-120 V
11/7/2023 10:01:12	0.0 V	-195.0 V	-90 V
11/7/2023 09:55:11	0.0 V	-195.0 V	-90 V
11/6/2023 10:21:52	0.0 V	-200.0 V	-100 V
11/3/2023 09:44:39	0.0 V	-200.0 V	-120 V
11/2/2023 09:56:11	0.0 V	-200.0 V	-90 V
11/1/2023 09:41:33	0.0 V	-195.0 V	-90 V

# US EPA Tune Check Report

**Operator Name** ICPMS  
**Acq/Data Batch** D:\Agilent\ICPMH\1\DATA\240827ME.b  
**Acq. Date-Time** 8/27/2024 09:10:54  
**Report Comment** ---  
**Instrument Name** G8422A SG22151236

[No Gas]

**Sensitivity**

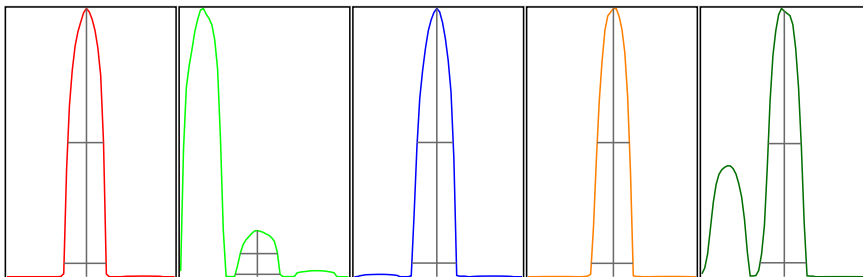
Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/(ug/l)]	Resp (Flag)	RSD%	RSD% (Required)
9	10.00	34948	349475.52			0.428	5.000
24	10.00	195998	1959981.37			1.540	5.000
59	10.00	397003	3970033.94			1.715	5.000
115	10.00	642844	6428440.88			1.385	5.000
208	10.00	384149	3841485.19			1.607	5.000

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	35116	34943	34992	34707	34980
24	198114	193925	199010	191831	197111
59	395618	389466	401973	392117	405844
115	649326	637694	655227	636807	635166
208	381310	375097	388646	385117	390572

Integration Time [sec] 0.1

**Resolution/Axis**



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	59379.67	8.95	8.90 - 9.10	
24	320275.37	23.90	23.90 - 24.10	
59	672104.19	59.00	58.90 - 59.10	
115	1178599.28	115.05	114.90 - 115.10	
208	675465.72	208.00	207.90 - 208.10	



# US EPA Tune Check Report

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.63	0.741	0.900	
24	0.65	0.789	0.900	
59	0.63	0.784	0.900	
115	0.57	0.733	0.900	
208	0.58	0.815	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	7.7 V	Deflect	11.6 V
Extract 2	-135.0 V	Cell Entrance	-30 V	Plate Bias	-35 V
Omega Bias	-60 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	0.9993	QP Bias	-3.0 V
Mass Offset	125	Axis Offset	0.03		

**Hardware Settings**

**Torch**

Torch H	0.4 mm	Torch V	0.1 mm
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**EM**

Discriminator	3.1 mV	Analog HV	2156 V	Pulse HV	1535 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	6796	67960.77			0.490	5.000
59	10.00	131558	1315579.40			1.525	5.000
115	10.00	171205	1712051.50			1.287	5.000
208	10.00	170066	1700658.95			1.157	5.000

Mass	RSD% (Flag)
24	
59	

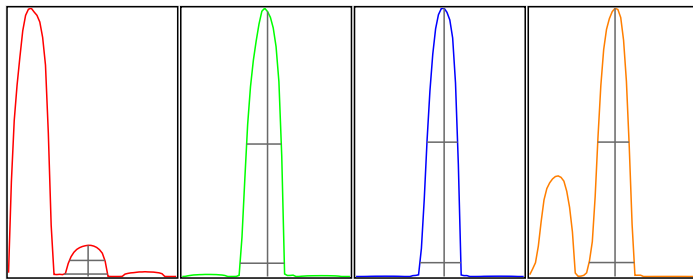
# US EPA Tune Check Report

Mass	RSD% (Flag)
115	
208	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
24	6839	6807	6806	6777	6751
59	130415	129299	133487	133858	130731
115	171561	172240	173906	168032	170286
208	171819	167635	168775	169846	172255

Integration Time [sec]      0.1

### Resolution/Axis



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
24	11411.30	23.95	23.90 - 24.10	
59	226314.13	59.05	58.90 - 59.10	
115	327854.91	115.10	114.90 - 115.10	
208	316441.75	208.05	207.90 - 208.10	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
24	0.62	0.765	0.900	
59	0.61	0.779	0.900	
115	0.54	0.721	0.900	
208	0.55	0.795	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	8.7 V	Deflect	0.2 V
Extract 2	-200.0 V	Cell Entrance	-40 V	Plate Bias	-55 V
Omega Bias	-100 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	0.03		

## Hardware Settings

### Torch

Torch H	0.4 mm	Torch V	0.1 mm
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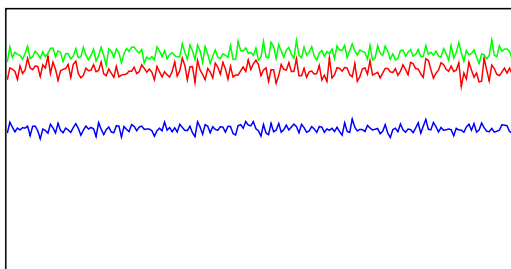
### EM

Discriminator	3.1 mV	Analog HV	2156 V	Pulse HV	1535 V
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# Performance Report

**Operator Name** ICPMS  
**Acq. Date-Time** 8/27/2024 08:32:46  
**Instrument Name** G8422A SG22151236  
**Sample Introduction** PeriPump  
**Nebulizer Type** MicroMist  
**Ion Lens Model** x-Lens  
**Tune Parameters** Standard Tune

## Sensitivity



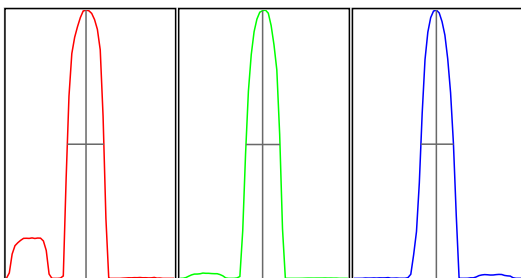
Mass	Range	Count	RSD%	Background
7	5000	3843	2.871	1.450
89	20000	16710	2.316	1.000
205	20000	10929	2.528	5.600

Sampling Period [sec] 0.311  
 Integration Time [sec] 0.1

## Oxide/Doubly Charged Ratio

Oxide 156 / 140 0.916 %  
 Doubly Charged 70 / 140 1.758 %

## Resolution/Axis



Mass	Peak Height	Axis	W-50%	W-10%
7	3791.65	6.95	0.64	0.77
89	16581.50	89.00	0.60	0.75
205	11016.58	205.00	0.57	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	1.09 L/min				

### Lens Parameters

Extract 1	0.0 V	Omega Lens	8.4 V	Deflect	11.8 V
Extract 2	-200.0 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	0.4 mm	Torch H (Hot)	---	Torch H (Cool)	---
Torch V	0.1 mm	Torch V (Hot)	---	Torch V (Cool)	---

### Plasma Correction

Nebulizer Gas Offset	0.04 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	0.03

### EM

Discriminator	3.1 mV	Analog HV	2156 V	Pulse HV	1535 V
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# Performance Report

## Meter

Name	Value	Unit
Nebulizer Gas	1.09	L/min
MU./Dil. Gas	0.00	L/min
Plasma Gas	14.98	L/min
Aux Gas	0.90	L/min
Ar Gas Tank Press	5.61E+2	kPa
+5V (Press Gage)	5.0	V
Ar AMFC Temp	28.0	°C
Nebulizer Gas(DP)	5.73E+0	kPa
MU./Dil. Gas(DP)	-1.85E-1	kPa
Aux Gas(DP)	1.07E+1	kPa
Plasma Gas(DP)	1.16E+1	kPa
Nebulizer Gas(BP)	3.09E+2	kPa
MU./Dil. Gas(BP)	0.00E+0	kPa
Aux Gas(BP)	5.93E+1	kPa
Plasma Gas(BP)	4.26E+1	kPa
S/C Temp (H)	21.0	°C
S/C Temp (L)	2.0	°C
Peltier Voltage	3.6	V
IF/BK Press	2.60E+2	Pa
Analyzer Press	5.61E-5	Pa
IG HV	178	V
IG Emission	4.95	µA
TMP Revolution	100.0	%
TMP Rev (Raw)	100.6	%
TMP Current	2.88	A
PWR AMP Drain I	0.4	A
PWR AMP Bias	4.02	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.	4.2	V
+U Voltage	8.6	V

Name	Value	Unit
-U Voltage	-14.9	V
V Voltage	45.7	V
QPRF Fader	0.0	V
Pickup Temp	55.0	°C
PWR Amp Temp	0.1	V
+600V	620.0	V
-120V	-132.8	V
-720V	-741.3	V
Prefilter Bias	-4.98	V
Pickup Heater I	0.09	A
QP PS +48V	47.6	V
QP PS +48V I	0.00	A
Analog HV	-2163	V
Pulse HV	1547	V
EM Gate	-43.4	V
Pulse Gate	331.6	V
EM Entrance	0.2	V
EM HV Gain	-779.6	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)	60.6	V
RF PS +48V	47.2	V
Forward Power	1549	W
Reflected Power	4	W
Plasma Freq.	27.05	MHz
Drain I 1	11.62	A
Drain I 2	10.49	A
Drain I 3	10.88	A
Drain I 4	11.48	A
Temp Sensor	2.8	V
Driver I	5.91	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	5.6	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	1.71E+2	kPa
He Gas Press	0.00E+0	kPa
ORS AMFC Temp	28.7	°C
Atmospheric Press	1.02E+2	kPa
Extract 1	0.0	V
Extract 2	-199.9	V
Omega Bias	-79.9	V
Omega Lens	8.6	V
Cell Entrance	-30.0	V
Cell Exit	-50.0	V
Deflect	11.9	V
Plate Bias	-35.1	V
HV+530V	531	V
HV+240V	238	V
HV-360V	-360	V
Inlet Temp	24.9	°C
Internal Temp	33.5	°C
+24V	23.7	V
Water Temp	22.4	°C
Water RF/WC/IF	1.47	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
8/27/2024 08:32:46	3843	16710	10929
8/26/2024 10:42:47	3976	12882	10259
8/23/2024 09:05:16	3432	12892	9568
8/22/2024 08:43:54	3662	14009	10981
8/21/2024 08:04:13	3190	14776	11594
8/20/2024 09:20:37	4220	16080	10288
8/19/2024 10:25:21	3050	10181	8067
8/19/2024 09:17:03	3195	9903	8321
8/16/2024 08:56:38	3253	15296	12175
8/15/2024 08:28:01	3146	14138	12111
8/14/2024 08:24:41	3158	13973	11673
8/13/2024 08:51:41	3023	15070	13056
8/12/2024 09:10:43	3411	12432	11805
8/12/2024 08:57:52	1786	5237	5122
8/9/2024 11:39:50	3767	15758	13022
8/9/2024 10:08:20	12	1	3
8/8/2024 08:40:39	3024	12546	9719
8/7/2024 09:19:16	2917	12165	9488
8/6/2024 11:12:44	2859	11998	10016
8/6/2024 10:53:38	2232	10655	9558
8/5/2024 10:40:17	2691	10635	9226
8/5/2024 10:09:19	2125	6835	5664
8/5/2024 09:55:23	2365	7939	6556
8/2/2024 09:40:16	3340	11024	9295
8/2/2024 08:37:48	3505	10692	8586
8/1/2024 10:38:00	3758	12250	9330
8/1/2024 09:06:45	3389	10556	9761
7/31/2024 08:13:58	3039	11937	9529
7/30/2024 08:50:51	2533	10165	9332
7/29/2024 16:06:05	3222	12529	9934
7/29/2024 12:07:28	3037	11992	10136
7/29/2024 11:14:31	3174	12095	10013
7/29/2024 10:15:21	2846	11965	10483
7/26/2024 08:53:52	3203	12639	10549
7/25/2024 09:09:23	2585	8526	8080
7/24/2024 15:10:09	3079	9987	9009
7/24/2024 08:46:25	3148	11490	9796
7/23/2024 09:32:54	3357	11492	9580
7/22/2024 10:18:30	3442	12004	11023
7/19/2024 08:55:06	3486	11885	10185
7/18/2024 09:06:31	3257	9447	8888

# Performance Report

Created Date	Channel 1 Count	Channel 2 Count	Channel 3 Count
7/17/2024 13:03:52	2495	9473	8373
7/17/2024 08:53:29	2867	10755	8619
7/16/2024 08:54:03	2886	10903	8985
7/15/2024 10:39:29	2656	10995	8921
7/15/2024 10:30:38	103	5	6
7/15/2024 10:13:57	1404	5260	4224
7/15/2024 09:02:48	3268	12919	10156
7/12/2024 08:34:22	2706	11570	8940
7/11/2024 09:57:22	2727	11970	8459
7/10/2024 08:53:17	2246	9073	7312
7/9/2024 11:54:06	3038	12303	9808
7/9/2024 11:32:31	2139	7705	5834
7/9/2024 11:26:38	2090	7758	5904
7/9/2024 10:39:16	3437	12816	9591
7/9/2024 09:17:46	2577	11478	8879
7/9/2024 08:57:06	3286	13034	8974
7/8/2024 09:21:55	3166	12745	9642
7/8/2024 09:16:31	3066	12665	9668
7/5/2024 09:03:10	3288	13628	11266
7/3/2024 13:05:52	3539	13046	10137
7/3/2024 11:25:40	3213	12344	9957
7/3/2024 09:13:37	3169	12570	10423
7/3/2024 08:44:49	2051	12221	9873
7/2/2024 10:26:17	2328	11750	10360
7/2/2024 08:58:12	3072	10344	9707
7/1/2024 14:16:19	3282	10802	9231
7/1/2024 10:01:10	3288	12796	10476
6/28/2024 08:25:22	3484	12596	10301
6/27/2024 08:34:14	3474	12721	10120
6/27/2024 08:11:22	1666	11338	9258
6/26/2024 07:54:24	2501	8288	8428
6/25/2024 09:02:17	2627	12790	10975
6/24/2024 09:30:27	2976	12050	10056
6/21/2024 08:55:34	3096	13175	9957
6/21/2024 08:22:44	1280	11401	9041
6/20/2024 09:00:43	2564	9588	8694
6/19/2024 07:51:31	2980	11922	9704
6/18/2024 07:52:20	3296	11922	9824
6/17/2024 08:58:45	3009	9463	9003
6/14/2024 08:44:27	2879	12214	10357
6/13/2024 08:42:30	3176	12682	10526



# Performance Report

Created Date	Channel 1 Count	Channel 2 Count	Channel 3 Count
6/12/2024 09:03:47	2996	12633	11312
6/11/2024 08:44:40	3492	13252	10118
6/10/2024 09:31:51	4111	13060	10421
6/10/2024 09:17:04	3508	11070	8441
6/10/2024 09:10:07	3930	12555	9564
6/7/2024 09:02:38	3417	11597	7618
6/6/2024 15:20:20	2950	9649	8247
6/6/2024 05:03:01	3480	13184	11025
6/6/2024 04:59:28	3438	13257	11014
6/5/2024 08:30:26	3575	12412	10789
6/4/2024 08:52:51	3401	12310	11419
6/4/2024 08:39:35	2814	11768	10904
6/4/2024 08:33:37	3060	12687	11246
6/3/2024 10:10:17	3272	10175	10494
6/3/2024 09:51:43	1907	6599	4712
6/3/2024 09:44:54	2209	7627	5199
6/3/2024 09:30:49	3299	9738	9247
5/31/2024 08:42:32	3301	13328	10713
5/30/2024 09:08:46	3406	13401	10419
5/29/2024 09:04:40	3587	13162	10590
5/29/2024 08:48:40	1739	11664	8844
5/29/2024 08:44:08	1858	12854	9297
5/28/2024 09:34:37	3138	12513	10682
5/24/2024 07:20:01	3325	12857	11044
5/23/2024 10:25:13	3407	12821	11140
5/22/2024 09:45:06	3583	12763	11601
5/21/2024 09:06:58	3752	13803	11837
5/21/2024 08:01:17	3966	14413	11053
5/20/2024 17:22:27	3645	10846	9662
5/20/2024 17:18:56	3613	10801	9645
5/20/2024 09:20:56	3333	12566	10681
5/17/2024 09:12:39	3467	13701	10660
5/16/2024 08:56:23	3599	13565	10699
5/15/2024 09:38:13	3581	13159	10227
5/15/2024 09:21:01	1917	11948	9850
5/14/2024 09:41:16	3346	12368	10966
5/14/2024 09:04:40	3206	11414	12297
5/13/2024 09:04:44	2639	15138	12300
5/10/2024 08:57:17	2178	13865	10279
5/9/2024 09:06:46	2313	13292	10727
5/9/2024 08:50:21	1763	12142	9522

# Performance Report

Created Date	Channel 1 Count	Channel 2 Count	Channel 3 Count
5/9/2024 08:44:20	1789	12171	9682
5/8/2024 09:39:10	3313	11092	11044
5/7/2024 17:05:39	3463	13115	10886
5/7/2024 16:48:43	3264	12073	10628
5/7/2024 09:19:24	3347	12706	11167
5/6/2024 09:15:59	3892	14499	12724
5/6/2024 09:03:10	3843	14665	13481
5/3/2024 09:11:06	3540	13100	11548
5/2/2024 09:48:24	3670	12233	11836
5/1/2024 09:22:54	4036	13686	11251
4/30/2024 10:43:56	4361	13605	11359
4/30/2024 08:17:01	4350	13793	11664
4/29/2024 09:10:57	4751	14089	11140
4/29/2024 08:57:45	3329	9292	6892
4/26/2024 08:09:31	5054	14978	10788
4/25/2024 09:37:51	4308	13902	11794
4/24/2024 09:17:24	4876	17662	12102
4/23/2024 22:46:11	4199	16180	12059
4/23/2024 09:01:59	3715	15592	11876
4/22/2024 10:16:34	4292	15978	13578
4/19/2024 10:59:00	3974	16385	11540
4/19/2024 10:07:48	2645	8439	3189
4/19/2024 09:10:32	360162	657303	2022720
4/18/2024 09:24:23	3369	17060	12485
4/17/2024 17:03:53	2828	16000	10229
4/17/2024 16:22:27	2262	14213	9009
4/17/2024 09:09:54	3608	12353	11595
4/16/2024 09:06:44	4046	14969	11814
4/15/2024 09:14:49	4139	16052	12083
4/12/2024 08:28:21	4666	17208	13280
4/11/2024 08:35:01	4138	17113	13613
4/10/2024 09:48:58	4018	16844	14484
4/9/2024 08:56:49	3881	15432	13181
4/8/2024 09:25:48	4035	16790	14224
4/5/2024 08:28:47	3893	17251	13416
4/4/2024 11:00:01	2778	10338	7494
4/4/2024 10:45:12	4028	16465	14158
4/3/2024 08:29:42	3630	16640	12452
4/2/2024 09:43:44	3046	17903	13815
4/1/2024 09:27:15	3194	17804	13701
3/29/2024 08:53:28	2520	17006	12384

# Performance Report

Created Date	Channel 1 Count	Channel 2 Count	Channel 3 Count
3/28/2024 09:08:20	2920	17324	12995
3/27/2024 16:48:32	3382	17176	12605
3/27/2024 10:07:18	3661	16126	12723
3/27/2024 08:49:30	3929	17060	12992
3/26/2024 10:28:06	4590	16054	14855
3/25/2024 10:10:30	4003	18464	13973
3/22/2024 09:00:45	2984	17875	12893
3/21/2024 08:44:31	3167	17829	13067
3/20/2024 09:03:42	3080	17089	12389
3/19/2024 13:23:15	3786	17505	12877
3/19/2024 09:31:32	3279	17943	12421
3/18/2024 10:47:35	4608	16508	13822
3/15/2024 09:19:25	2446	16491	10868
3/14/2024 09:13:05	2441	16585	10800
3/13/2024 09:22:30	2903	16825	11325
3/12/2024 09:10:39	2653	17105	11709
3/11/2024 11:07:32	4200	16181	13057
3/11/2024 09:31:05	4293	17257	11986
3/11/2024 09:27:33	4322	17396	12106
3/8/2024 08:29:13	4145	16244	11704
3/7/2024 17:46:09	4185	15148	11811
3/7/2024 13:19:13	4029	15848	11265
3/7/2024 09:28:32	3605	13491	9204
3/7/2024 09:11:32	2580	13526	10298
3/7/2024 09:01:08	2698	13846	10718
3/6/2024 10:19:40	3208	14488	10724
3/5/2024 10:15:16	273	1743	2387
3/5/2024 10:09:01	146	892	1334
3/4/2024 11:41:00	4063	15365	11233
3/4/2024 11:28:21	1954	9059	5433
3/1/2024 08:43:28	2996	15512	8966
2/29/2024 10:38:23	4306	15354	11334
2/29/2024 10:00:25	554	3889	4359
2/29/2024 09:54:15	506	3359	3784
2/28/2024 09:32:01	3061	18229	13084
2/27/2024 09:16:47	2827	17549	11855
2/26/2024 10:30:35	3971	16379	11179
2/26/2024 10:00:21	1827	10055	6679
2/23/2024 09:07:38	3382	16511	11230
2/22/2024 08:58:48	3065	15604	10264
2/21/2024 09:51:13	3455	16190	11543

# Performance Report

Created Date	Channel 1 Count	Channel 2 Count	Channel 3 Count
2/20/2024 09:59:52	3253	15976	11176
2/19/2024 11:30:32	4894	17240	13782
2/19/2024 11:27:00	4856	17120	13743
2/19/2024 10:16:07	4289	15395	10107
2/16/2024 10:28:26	3613	15969	9007
2/15/2024 09:20:58	4185	16564	9371
2/14/2024 09:20:12	4712	16825	9695
2/13/2024 10:44:41	4401	16379	9098
2/13/2024 10:29:18	758	13401	11559
2/12/2024 11:24:46	2301	15124	11918
2/12/2024 11:09:08	53	2239	4028
2/12/2024 10:33:45	42	1954	3702
2/12/2024 10:19:52	438	2663	2740
2/12/2024 10:03:02	137	541	1027
2/9/2024 09:43:26	2475	17092	10562
2/8/2024 09:41:08	2739	17007	11011
2/7/2024 09:08:34	2949	17251	11332
2/6/2024 10:08:14	3266	17222	10352
2/5/2024 16:27:35	2590	11801	7811
2/2/2024 09:52:22	4247	15989	11850
2/1/2024 09:29:20	4221	15873	11923
1/31/2024 11:01:25	4619	16449	12370
1/31/2024 10:56:52	2140	7715	5751
1/30/2024 09:04:33	4439	15663	11799
1/29/2024 09:09:33	3916	13763	12278
1/26/2024 10:08:59	3557	15191	9410
1/25/2024 09:54:25	3735	15427	9753
1/24/2024 08:52:40	3752	15257	10201
1/23/2024 11:08:41	3473	15039	10359
1/22/2024 09:17:23	4075	16149	10348
1/22/2024 09:06:26	2984	12293	7869
1/19/2024 09:01:45	3434	14536	9100
1/18/2024 10:29:20	3342	14635	9148
1/17/2024 08:52:45	3752	15881	10390
1/16/2024 14:09:54	4332	14365	9878
1/16/2024 13:58:35	1849	8752	5553
1/16/2024 13:45:11	1759	8747	5733
1/15/2024 13:03:28	344	1843	2376
1/15/2024 10:46:25	310	1953	2595
1/15/2024 10:34:05	355	1945	2594
1/15/2024 10:25:28	354	1906	2502

# Performance Report

Created Date	Channel 1 Count	Channel 2 Count	Channel 3 Count
1/15/2024 09:48:32	378	1867	2261
1/15/2024 09:32:45	371	1842	2272
1/11/2024 14:10:39	440	1388	1671
1/11/2024 14:00:32	442	1331	1629
1/11/2024 13:07:14	441	1073	1309
1/11/2024 12:18:32	442	1296	1595
1/11/2024 10:36:51	468	1469	1987
1/11/2024 10:28:26	430	1428	1696
1/11/2024 09:11:58	387	1869	2263
1/11/2024 09:02:27	313	1592	1975
1/11/2024 08:54:00	310	1559	1944
1/10/2024 09:10:40	3490	14986	10982
1/9/2024 12:58:05	4349	14607	8180
1/9/2024 12:49:35	715	10779	7642
1/9/2024 12:37:33	8	1202	6143
1/9/2024 12:22:55	8	1215	6181
1/9/2024 12:00:03	8	1341	6546
1/9/2024 11:54:42	9	1280	6372
1/9/2024 11:45:17	9	1382	6594
1/9/2024 11:40:53	10	1397	6617
1/9/2024 11:25:08	362	1545	1665
1/9/2024 11:20:04	363	1540	1650
1/8/2024 13:49:37	3408	10281	9523
1/8/2024 12:34:48	1155	5021	6450
1/8/2024 12:30:18	1191	5187	6341
1/5/2024 09:35:49	3668	12692	8070
1/4/2024 09:13:21	3867	12894	6927
1/4/2024 09:00:57	603	1935	1257
1/3/2024 08:46:17	3809	12778	9107
1/2/2024 11:16:48	3519	12397	9390
1/2/2024 10:38:17	3814	12293	8842
12/29/2023 10:12:49	4013	12649	8816
12/28/2023 08:59:35	3766	13387	9586
12/27/2023 12:20:02	3809	12937	8800
12/27/2023 11:34:32	40	9	2
12/27/2023 10:51:04	55	31	2
12/27/2023 10:41:08	72	37	8
12/27/2023 10:33:50	3879	13288	8945
12/27/2023 10:28:28	3772	13183	8580
12/22/2023 07:49:52	3943	11892	9924
12/21/2023 08:44:43	3526	13027	9943

# Performance Report

Created Date	Channel 1 Count	Channel 2 Count	Channel 3 Count
12/20/2023 09:26:41	4003	13172	10074
12/19/2023 09:55:37	4333	13694	10285
12/18/2023 10:16:18	4138	13763	10818
12/18/2023 10:06:38	3415	13014	10962
12/18/2023 10:00:26	3894	14384	11204
12/15/2023 09:45:55	3734	14030	9513
12/14/2023 10:23:15	3524	14113	9600
12/13/2023 10:17:40	3829	13996	9570
12/12/2023 09:56:00	3555	14240	9677
12/11/2023 10:31:48	3701	14394	9382
12/8/2023 10:10:39	3664	14293	8929
12/7/2023 09:51:50	3426	13353	8809
12/6/2023 10:12:37	3698	14579	8824
12/5/2023 10:02:14	3349	13427	9922
12/4/2023 12:08:53	3427	12418	10340
12/4/2023 11:24:17	1768	7808	8292
12/4/2023 11:20:06	1802	8001	8316
12/4/2023 11:16:06	1832	8106	8250
12/4/2023 10:23:39	1770	7816	7735
12/4/2023 10:16:55	1601	7275	7827
12/4/2023 10:09:27	1944	8113	7456
12/1/2023 09:45:19	2113	9054	8466
11/30/2023 11:48:17	2317	9995	8851
11/30/2023 11:13:01	1727	8309	9089
11/30/2023 11:05:44	1721	8023	8748
11/30/2023 10:33:46	1172	5927	8124
11/29/2023 10:04:26	2359	11870	8365
11/29/2023 09:51:22	1483	5693	3444
11/28/2023 12:50:37	3146	12531	8324
11/28/2023 12:18:55	2789	8914	4789
11/28/2023 12:15:04	3346	10726	5995
11/28/2023 11:49:24	2609	8496	4878
11/28/2023 10:22:53	1529	5718	4738
11/28/2023 10:19:03	1663	6180	5204
11/28/2023 10:15:20	1784	6623	5657
11/28/2023 09:59:37	1436	6174	5639
11/27/2023 10:28:48	2148	9665	8835
11/27/2023 10:07:16	1451	7618	8440
11/27/2023 10:01:25	1454	7648	8543
11/27/2023 09:52:06	1636	8794	9323
11/22/2023 09:50:47	2317	9749	8520

# Performance Report

Created Date	Channel 1 Count	Channel 2 Count	Channel 3 Count
11/21/2023 09:52:05	2348	10189	9398
11/20/2023 09:38:08	2536	10392	9162
11/17/2023 10:07:38	2699	10664	9285
11/16/2023 09:42:56	2615	11519	10404
11/15/2023 13:01:45	2120	9780	10146
11/15/2023 12:33:52	1814	8334	9391
11/15/2023 12:27:35	1837	8353	9462
11/15/2023 12:17:35	1829	8310	9392
11/15/2023 12:09:42	1631	7760	9062
11/15/2023 10:39:09	1634	7521	8758
11/14/2023 10:25:03	4165	15167	8009
11/13/2023 09:42:07	3445	15971	9795
11/10/2023 09:15:37	3300	14607	7635
11/9/2023 09:55:52	2651	15369	8099
11/8/2023 09:55:56	2862	15545	7990
11/7/2023 10:07:52	2359	13776	7205
11/7/2023 10:01:12	1759	11245	6289
11/7/2023 09:55:11	1931	12236	6442
11/6/2023 10:21:52	3645	16323	7638
11/3/2023 09:44:39	2391	13805	7745
11/2/2023 09:56:11	2999	15000	8628
11/1/2023 09:41:33	3299	14766	7935

## Background

Created Date	Channel 1 Count	Channel 2 Count	Channel 3 Count
8/27/2024 08:32:46	1.450	1.000	5.600
8/26/2024 10:42:47	1.150	0.650	4.550
8/23/2024 09:05:16	1.400	1.400	3.650
8/22/2024 08:43:54	1.050	0.850	3.250
8/21/2024 08:04:13	1.200	1.050	4.450
8/20/2024 09:20:37	1.250	1.250	5.250
8/19/2024 10:25:21	1.000	0.500	4.550
8/19/2024 09:17:03	0.900	0.650	3.700
8/16/2024 08:56:38	1.050	1.050	3.450
8/15/2024 08:28:01	1.000	0.600	3.250
8/14/2024 08:24:41	1.150	0.450	4.000

# Performance Report

Created Date	Channel 1 Count	Channel 2 Count	Channel 3 Count
8/13/2024 08:51:41	1.200	0.450	2.850
8/12/2024 09:10:43	0.500	0.500	2.350
8/12/2024 08:57:52	0.950	0.600	2.950
8/9/2024 11:39:50	1.350	0.700	4.500
8/9/2024 10:08:20	0.850	0.600	3.100
8/8/2024 08:40:39	1.200	0.500	5.750
8/7/2024 09:19:16	1.350	0.900	4.300
8/6/2024 11:12:44	1.450	0.800	3.500
8/6/2024 10:53:38	1.600	0.500	3.350
8/5/2024 10:40:17	0.600	0.750	3.150
8/5/2024 10:09:19	1.300	0.750	4.700
8/5/2024 09:55:23	0.800	0.700	5.750
8/2/2024 09:40:16	1.050	0.650	4.450
8/2/2024 08:37:48	1.300	0.700	4.600
8/1/2024 10:38:00	1.050	0.550	5.450
8/1/2024 09:06:45	0.900	0.850	3.750
7/31/2024 08:13:58	1.200	0.650	3.800
7/30/2024 08:50:51	1.100	0.650	2.400
7/29/2024 16:06:05	1.250	0.950	4.850
7/29/2024 12:07:28	1.500	0.750	4.100
7/29/2024 11:14:31	1.200	1.000	3.500
7/29/2024 10:15:21	1.250	0.800	3.900
7/26/2024 08:53:52	0.750	1.200	3.950
7/25/2024 09:09:23	0.750	0.300	2.900
7/24/2024 15:10:09	0.750	0.700	3.650
7/24/2024 08:46:25	1.100	0.650	4.200
7/23/2024 09:32:54	1.250	0.750	3.550
7/22/2024 10:18:30	1.050	0.600	4.200
7/19/2024 08:55:06	1.300	0.650	4.050
7/18/2024 09:06:31	0.700	0.600	2.950
7/17/2024 13:03:52	1.150	0.800	3.850
7/17/2024 08:53:29	1.700	0.550	5.400
7/16/2024 08:54:03	0.900	0.850	4.100
7/15/2024 10:39:29	1.050	0.750	4.650
7/15/2024 10:30:38	1.250	0.750	4.300
7/15/2024 10:13:57	1.250	0.650	4.400
7/15/2024 09:02:48	1.550	0.450	4.300
7/12/2024 08:34:22	1.200	0.850	4.100
7/11/2024 09:57:22	1.550	1.200	5.900
7/10/2024 08:53:17	1.050	0.850	2.900
7/9/2024 11:54:06	1.200	0.750	3.700



# Performance Report

Created Date	Channel 1 Count	Channel 2 Count	Channel 3 Count
7/9/2024 11:32:31	1.000	0.450	3.700
7/9/2024 11:26:38	1.550	0.550	4.350
7/9/2024 10:39:16	1.200	1.050	4.700
7/9/2024 09:17:46	1.550	0.800	4.650
7/9/2024 08:57:06	1.250	0.700	3.100
7/8/2024 09:21:55	1.700	0.950	5.050
7/8/2024 09:16:31	1.050	0.750	4.500
7/5/2024 09:03:10	1.200	0.500	3.600
7/3/2024 13:05:52	1.150	1.000	4.000
7/3/2024 11:25:40	1.500	0.850	4.500
7/3/2024 09:13:37	1.000	0.550	4.300
7/3/2024 08:44:49	0.950	0.650	3.500
7/2/2024 10:26:17	0.850	0.650	3.600
7/2/2024 08:58:12	0.900	0.850	3.350
7/1/2024 14:16:19	1.450	0.500	5.050
7/1/2024 10:01:10	1.450	0.850	3.900
6/28/2024 08:25:22	1.100	1.350	4.300
6/27/2024 08:34:14	1.350	0.900	6.000
6/27/2024 08:11:22	0.850	0.700	4.400
6/26/2024 07:54:24	0.650	0.400	2.750
6/25/2024 09:02:17	0.900	0.650	4.200
6/24/2024 09:30:27	1.250	1.100	4.150
6/21/2024 08:55:34	1.150	0.700	6.200
6/21/2024 08:22:44	1.050	0.900	3.250
6/20/2024 09:00:43	1.300	0.700	2.750
6/19/2024 07:51:31	1.500	1.400	4.900
6/18/2024 07:52:20	1.850	1.000	4.300
6/17/2024 08:58:45	1.000	0.450	2.900
6/14/2024 08:44:27	1.200	0.450	4.150
6/13/2024 08:42:30	1.100	0.850	4.800
6/12/2024 09:03:47	1.200	0.400	3.350
6/11/2024 08:44:40	1.650	0.700	3.950
6/10/2024 09:31:51	1.550	0.750	4.350
6/10/2024 09:17:04	1.250	0.450	3.800
6/10/2024 09:10:07	1.400	0.600	3.500
6/7/2024 09:02:38	1.400	0.350	3.300
6/6/2024 15:20:20	1.150	0.400	2.650
6/6/2024 05:03:01	1.500	1.100	4.650
6/6/2024 04:59:28	1.300	0.900	3.750
6/5/2024 08:30:26	1.800	1.350	4.050
6/4/2024 08:52:51	0.650	0.500	3.850

# Performance Report

Created Date	Channel 1 Count	Channel 2 Count	Channel 3 Count
6/4/2024 08:39:35	0.850	0.500	3.450
6/4/2024 08:33:37	0.950	0.800	4.400
6/3/2024 10:10:17	1.000	0.500	3.100
6/3/2024 09:51:43	2.050	0.850	4.950
6/3/2024 09:44:54	1.500	0.500	5.150
6/3/2024 09:30:49	1.100	0.350	3.050
5/31/2024 08:42:32	1.350	0.900	5.150
5/30/2024 09:08:46	1.000	0.550	4.300
5/29/2024 09:04:40	1.150	0.750	4.750
5/29/2024 08:48:40	0.700	0.550	2.700
5/29/2024 08:44:08	1.150	0.400	3.600
5/28/2024 09:34:37	1.000	0.450	3.150
5/24/2024 07:20:01	1.250	1.100	4.200
5/23/2024 10:25:13	0.900	0.900	5.100
5/22/2024 09:45:06	1.050	0.750	5.250
5/21/2024 09:06:58	1.400	1.100	5.050
5/21/2024 08:01:17	1.150	0.950	4.950
5/20/2024 17:22:27	0.900	0.750	3.800
5/20/2024 17:18:56	1.050	1.050	3.750
5/20/2024 09:20:56	0.450	0.650	3.250
5/17/2024 09:12:39	1.050	0.700	4.800
5/16/2024 08:56:23	0.900	0.750	3.850
5/15/2024 09:38:13	0.750	0.600	4.050
5/15/2024 09:21:01	0.900	0.250	3.400
5/14/2024 09:41:16	0.900	0.350	3.050
5/14/2024 09:04:40	0.600	0.350	2.100
5/13/2024 09:04:44	0.950	0.900	3.450
5/10/2024 08:57:17	0.900	0.550	5.000
5/9/2024 09:06:46	1.100	0.900	5.050
5/9/2024 08:50:21	1.150	0.700	4.800
5/9/2024 08:44:20	1.000	1.000	5.300
5/8/2024 09:39:10	1.300	0.600	3.200
5/7/2024 17:05:39	1.150	0.700	4.850
5/7/2024 16:48:43	1.050	0.800	3.600
5/7/2024 09:19:24	1.000	0.800	3.750
5/6/2024 09:15:59	0.750	0.750	4.350
5/6/2024 09:03:10	0.850	0.700	4.500
5/3/2024 09:11:06	1.150	0.500	3.350
5/2/2024 09:48:24	0.800	0.800	2.450
5/1/2024 09:22:54	1.300	0.700	5.450
4/30/2024 10:43:56	1.000	1.250	5.000

# Performance Report

Created Date	Channel 1 Count	Channel 2 Count	Channel 3 Count
4/30/2024 08:17:01	1.150	0.950	4.100
4/29/2024 09:10:57	1.550	0.750	5.050
4/29/2024 08:57:45	1.550	0.850	5.850
4/26/2024 08:09:31	1.300	0.750	5.850
4/25/2024 09:37:51	1.250	1.000	4.100
4/24/2024 09:17:24	1.600	1.450	5.400
4/23/2024 22:46:11	1.250	1.150	5.750
4/23/2024 09:01:59	0.700	0.550	4.900
4/22/2024 10:16:34	1.000	0.650	4.100
4/19/2024 10:59:00	1.050	1.050	5.250
4/19/2024 10:07:48	2.150	1.700	8.800
4/19/2024 09:10:32	0.600	0.600	1.050
4/18/2024 09:24:23	0.850	0.800	2.900
4/17/2024 17:03:53	1.350	0.800	4.300
4/17/2024 16:22:27	1.150	1.000	4.600
4/17/2024 09:09:54	0.800	0.750	2.300
4/16/2024 09:06:44	1.150	1.300	4.500
4/15/2024 09:14:49	1.200	1.150	5.300
4/12/2024 08:28:21	1.050	0.850	4.250
4/11/2024 08:35:01	0.900	0.700	4.650
4/10/2024 09:48:58	0.550	1.000	3.500
4/9/2024 08:56:49	0.700	0.700	3.500
4/8/2024 09:25:48	0.950	0.800	4.150
4/5/2024 08:28:47	1.450	0.700	5.100
4/4/2024 11:00:01	1.700	0.650	4.750
4/4/2024 10:45:12	1.100	0.750	3.200
4/3/2024 08:29:42	0.950	0.900	5.550
4/2/2024 09:43:44	0.800	0.750	2.500
4/1/2024 09:27:15	1.200	1.300	3.650
3/29/2024 08:53:28	1.250	0.900	3.350
3/28/2024 09:08:20	0.800	0.850	3.950
3/27/2024 16:48:32	1.250	1.100	4.700
3/27/2024 10:07:18	1.650	0.750	3.600
3/27/2024 08:49:30	1.700	0.600	4.200
3/26/2024 10:28:06	1.450	0.550	4.000
3/25/2024 10:10:30	1.150	0.650	4.800
3/22/2024 09:00:45	0.750	0.750	4.000
3/21/2024 08:44:31	0.900	0.450	4.000
3/20/2024 09:03:42	1.350	0.650	2.950
3/19/2024 13:23:15	1.250	0.750	3.650
3/19/2024 09:31:32	0.950	0.500	3.450

# Performance Report

Created Date	Channel 1 Count	Channel 2 Count	Channel 3 Count
3/18/2024 10:47:35	1.150	0.550	3.550
3/15/2024 09:19:25	1.700	1.000	5.050
3/14/2024 09:13:05	1.100	0.750	4.050
3/13/2024 09:22:30	1.700	0.850	3.850
3/12/2024 09:10:39	0.850	0.700	3.750
3/11/2024 11:07:32	1.650	0.850	4.300
3/11/2024 09:31:05	1.450	0.850	4.850
3/11/2024 09:27:33	1.950	0.500	4.700
3/8/2024 08:29:13	1.800	0.650	4.350
3/7/2024 17:46:09	1.250	1.050	4.550
3/7/2024 13:19:13	0.950	0.650	4.750
3/7/2024 09:28:32	2.150	1.000	4.900
3/7/2024 09:11:32	1.200	0.600	3.500
3/7/2024 09:01:08	1.250	0.700	4.350
3/6/2024 10:19:40	1.600	0.500	4.550
3/5/2024 10:15:16	45.151	868.764	0.250
3/5/2024 10:09:01	0.450	0.100	0.150
3/4/2024 11:41:00	1.650	1.000	4.400
3/4/2024 11:28:21	1.900	1.700	7.550
3/1/2024 08:43:28	1.850	1.100	5.400
2/29/2024 10:38:23	1.350	0.800	4.500
2/29/2024 10:00:25	0.850	0.450	1.150
2/29/2024 09:54:15	0.900	0.350	1.300
2/28/2024 09:32:01	1.250	0.700	3.350
2/27/2024 09:16:47	1.000	0.700	3.200
2/26/2024 10:30:35	1.750	0.700	5.350
2/26/2024 10:00:21	2.150	0.700	5.850
2/23/2024 09:07:38	1.300	0.550	3.600
2/22/2024 08:58:48	1.150	0.850	4.300
2/21/2024 09:51:13	1.000	0.650	3.750
2/20/2024 09:59:52	1.100	1.250	3.900
2/19/2024 11:30:32	1.150	0.400	3.700
2/19/2024 11:27:00	1.800	0.500	3.150
2/19/2024 10:16:07	1.100	0.750	4.100
2/16/2024 10:28:26	1.650	0.950	5.150
2/15/2024 09:20:58	1.850	0.850	5.350
2/14/2024 09:20:12	2.050	1.150	5.600
2/13/2024 10:44:41	1.700	1.150	5.800
2/13/2024 10:29:18	1.550	0.800	2.700
2/12/2024 11:24:46	1.300	0.400	3.900
2/12/2024 11:09:08	0.150	0.150	0.350

# Performance Report

Created Date	Channel 1 Count	Channel 2 Count	Channel 3 Count
2/12/2024 10:33:45	0.450	2.300	0.100
2/12/2024 10:19:52	1.550	0.400	1.250
2/12/2024 10:03:02	0.150	0.050	0.200
2/9/2024 09:43:26	1.600	0.400	3.200
2/8/2024 09:41:08	1.600	0.800	3.200
2/7/2024 09:08:34	1.200	0.550	3.550
2/6/2024 10:08:14	1.650	1.550	4.100
2/5/2024 16:27:35	1.100	0.550	3.400
2/2/2024 09:52:22	1.250	0.600	5.350
2/1/2024 09:29:20	1.000	0.550	5.000
1/31/2024 11:01:25	1.300	0.650	4.650
1/31/2024 10:56:52	1.200	0.800	5.700
1/30/2024 09:04:33	0.900	0.650	5.400
1/29/2024 09:09:33	1.100	0.650	4.000
1/26/2024 10:08:59	1.450	1.050	5.000
1/25/2024 09:54:25	1.350	0.850	3.950
1/24/2024 08:52:40	1.300	0.900	3.900
1/23/2024 11:08:41	1.000	0.900	3.450
1/22/2024 09:17:23	1.300	0.800	5.500
1/22/2024 09:06:26	1.750	0.650	4.050
1/19/2024 09:01:45	1.750	1.000	4.000
1/18/2024 10:29:20	1.250	0.650	3.600
1/17/2024 08:52:45	1.550	0.650	4.250
1/16/2024 14:09:54	1.450	0.650	4.150
1/16/2024 13:58:35	1.450	0.800	3.350
1/16/2024 13:45:11	1.050	0.600	3.600
1/15/2024 13:03:28	0.750	0.200	0.700
1/15/2024 10:46:25	0.800	0.100	0.400
1/15/2024 10:34:05	0.800	0.100	0.750
1/15/2024 10:25:28	1.350	0.150	0.800
1/15/2024 09:48:32	0.950	0.250	0.450
1/15/2024 09:32:45	1.050	0.350	0.600
1/11/2024 14:10:39	0.900	0.150	0.200
1/11/2024 14:00:32	0.700	0.050	0.250
1/11/2024 13:07:14	0.600	0.150	0.250
1/11/2024 12:18:32	0.550	0.050	0.400
1/11/2024 10:36:51	0.450	0.100	0.250
1/11/2024 10:28:26	0.550	0.050	0.200
1/11/2024 09:11:58	0.300	0.150	0.500
1/11/2024 09:02:27	0.700	0.200	0.500
1/11/2024 08:54:00	0.450	0.100	0.600

# Performance Report

Created Date	Channel 1 Count	Channel 2 Count	Channel 3 Count
1/10/2024 09:10:40	1.400	1.000	4.400
1/9/2024 12:58:05	2.000	0.800	4.900
1/9/2024 12:49:35	1.200	0.450	1.750
1/9/2024 12:37:33	0.000	0.050	0.200
1/9/2024 12:22:55	0.050	0.050	0.000
1/9/2024 12:00:03	0.000	0.050	0.100
1/9/2024 11:54:42	0.000	0.000	0.050
1/9/2024 11:45:17	0.100	0.000	0.050
1/9/2024 11:40:53	0.050	0.000	0.050
1/9/2024 11:25:08	0.450	0.050	0.200
1/9/2024 11:20:04	0.250	0.100	0.200
1/8/2024 13:49:37	0.950	0.550	2.650
1/8/2024 12:34:48	0.350	0.150	0.600
1/8/2024 12:30:18	0.250	0.300	0.450
1/5/2024 09:35:49	1.250	0.450	3.900
1/4/2024 09:13:21	1.100	0.750	4.350
1/4/2024 09:00:57	1.400	0.450	2.950
1/3/2024 08:46:17	1.250	0.600	3.200
1/2/2024 11:16:48	1.350	0.300	2.800
1/2/2024 10:38:17	1.250	0.800	2.900
12/29/2023 10:12:49	0.850	0.500	3.100
12/28/2023 08:59:35	1.000	0.800	3.550
12/27/2023 12:20:02	1.000	0.600	3.150
12/27/2023 11:34:32	0.800	0.650	3.450
12/27/2023 10:51:04	1.000	0.800	3.000
12/27/2023 10:41:08	1.200	0.400	3.400
12/27/2023 10:33:50	1.500	0.650	3.500
12/27/2023 10:28:28	0.950	0.600	3.300
12/22/2023 07:49:52	0.850	0.450	2.400
12/21/2023 08:44:43	1.050	0.450	2.150
12/20/2023 09:26:41	0.600	0.350	3.500
12/19/2023 09:55:37	1.150	0.550	2.600
12/18/2023 10:16:18	0.700	0.400	2.100
12/18/2023 10:06:38	0.900	0.150	2.400
12/18/2023 10:00:26	1.150	0.200	2.950
12/15/2023 09:45:55	1.000	0.800	3.050
12/14/2023 10:23:15	0.350	0.850	2.950
12/13/2023 10:17:40	0.650	0.250	2.800
12/12/2023 09:56:00	0.950	0.600	2.700
12/11/2023 10:31:48	1.350	0.200	2.550
12/8/2023 10:10:39	0.950	0.600	3.250

# Performance Report

Created Date	Channel 1 Count	Channel 2 Count	Channel 3 Count
12/7/2023 09:51:50	0.850	0.300	2.550
12/6/2023 10:12:37	1.050	0.750	3.550
12/5/2023 10:02:14	0.600	0.450	1.750
12/4/2023 12:08:53	0.600	0.300	2.500
12/4/2023 11:24:17	0.350	0.200	1.300
12/4/2023 11:20:06	0.500	0.250	0.850
12/4/2023 11:16:06	0.150	0.500	1.150
12/4/2023 10:23:39	0.300	0.150	1.400
12/4/2023 10:16:55	0.300	0.350	0.950
12/4/2023 10:09:27	0.400	0.300	1.100
12/1/2023 09:45:19	0.550	0.500	1.500
11/30/2023 11:48:17	0.450	0.350	1.950
11/30/2023 11:13:01	0.450	0.100	1.200
11/30/2023 11:05:44	0.500	0.050	1.150
11/30/2023 10:33:46	0.150	0.200	0.700
11/29/2023 10:04:26	0.850	0.450	2.200
11/29/2023 09:51:22	0.750	0.300	2.400
11/28/2023 12:50:37	1.000	0.550	2.650
11/28/2023 12:18:55	0.800	0.700	3.500
11/28/2023 12:15:04	0.500	0.450	3.050
11/28/2023 11:49:24	0.900	0.450	3.200
11/28/2023 10:22:53	0.650	0.350	1.800
11/28/2023 10:19:03	0.550	0.400	1.950
11/28/2023 10:15:20	0.200	0.200	1.650
11/28/2023 09:59:37	0.250	0.200	1.500
11/27/2023 10:28:48	0.300	0.200	1.850
11/27/2023 10:07:16	0.300	0.100	1.500
11/27/2023 10:01:25	0.500	0.150	1.150
11/27/2023 09:52:06	0.500	0.150	1.250
11/22/2023 09:50:47	0.500	0.300	1.700
11/21/2023 09:52:05	0.650	0.250	1.200
11/20/2023 09:38:08	0.200	0.350	1.450
11/17/2023 10:07:38	0.250	0.100	2.450
11/16/2023 09:42:56	0.350	0.350	2.750
11/15/2023 13:01:45	0.550	0.100	1.700
11/15/2023 12:33:52	0.350	0.250	0.900
11/15/2023 12:27:35	0.150	0.250	1.300
11/15/2023 12:17:35	0.400	0.200	0.900
11/15/2023 12:09:42	0.450	0.150	1.350
11/15/2023 10:39:09	0.200	0.100	1.150
11/14/2023 10:25:03	1.600	0.750	4.550

# Performance Report

Created Date	Channel 1 Count	Channel 2 Count	Channel 3 Count
11/13/2023 09:42:07	1.000	0.350	3.300
11/10/2023 09:15:37	0.950	0.650	3.000
11/9/2023 09:55:52	0.850	0.450	2.800
11/8/2023 09:55:56	1.100	0.450	3.550
11/7/2023 10:07:52	1.150	0.800	3.850
11/7/2023 10:01:12	0.750	0.350	2.550
11/7/2023 09:55:11	1.000	0.350	3.150
11/6/2023 10:21:52	1.450	0.800	3.700
11/3/2023 09:44:39	1.250	0.600	4.000
11/2/2023 09:56:11	1.350	0.500	3.200
11/1/2023 09:41:33	1.550	0.700	4.000

## Tune Parameters

Created Date	Extract 1	Extract 2	Omega Bias
8/27/2024 08:32:46	0.0 V	-200.0 V	-80 V
8/26/2024 10:42:47	0.0 V	-185.0 V	-100 V
8/23/2024 09:05:16	0.0 V	-140.0 V	-70 V
8/22/2024 08:43:54	0.0 V	-160.0 V	-70 V
8/21/2024 08:04:13	0.0 V	-200.0 V	-80 V
8/20/2024 09:20:37	0.0 V	-190.0 V	-100 V
8/19/2024 10:25:21	0.0 V	-185.0 V	-80 V
8/19/2024 09:17:03	0.0 V	-165.0 V	-80 V
8/16/2024 08:56:38	0.0 V	-180.0 V	-80 V
8/15/2024 08:28:01	0.0 V	-165.0 V	-80 V
8/14/2024 08:24:41	0.0 V	-175.0 V	-80 V
8/13/2024 08:51:41	0.0 V	-185.0 V	-80 V
8/12/2024 09:10:43	0.0 V	-160.0 V	-80 V
8/12/2024 08:57:52	0.0 V	-180.0 V	-80 V
8/9/2024 11:39:50	0.0 V	-195.0 V	-90 V
8/9/2024 10:08:20	0.0 V	-195.0 V	-90 V
8/8/2024 08:40:39	0.0 V	-195.0 V	-90 V
8/7/2024 09:19:16	0.0 V	-195.0 V	-90 V
8/6/2024 11:12:44	0.0 V	-200.0 V	-80 V
8/6/2024 10:53:38	0.0 V	-200.0 V	-80 V
8/5/2024 10:40:17	0.0 V	-200.0 V	-80 V
8/5/2024 10:09:19	0.0 V	-200.0 V	-90 V



# Performance Report

Created Date	Extract 1	Extract 2	Omega Bias
8/5/2024 09:55:23	0.0 V	-195.0 V	-90 V
8/2/2024 09:40:16	0.0 V	-190.0 V	-90 V
8/2/2024 08:37:48	0.0 V	-190.0 V	-90 V
8/1/2024 10:38:00	0.0 V	-180.0 V	-90 V
8/1/2024 09:06:45	0.0 V	-175.0 V	-90 V
7/31/2024 08:13:58	0.0 V	-185.0 V	-90 V
7/30/2024 08:50:51	0.0 V	-180.0 V	-90 V
7/29/2024 16:06:05	0.0 V	-190.0 V	-90 V
7/29/2024 12:07:28	0.0 V	-195.0 V	-90 V
7/29/2024 11:14:31	0.0 V	-195.0 V	-100 V
7/29/2024 10:15:21	0.0 V	-180.0 V	-90 V
7/26/2024 08:53:52	0.0 V	-190.0 V	-90 V
7/25/2024 09:09:23	0.0 V	-165.0 V	-90 V
7/24/2024 15:10:09	0.0 V	-185.0 V	-90 V
7/24/2024 08:46:25	0.0 V	-180.0 V	-90 V
7/23/2024 09:32:54	0.0 V	-180.0 V	-90 V
7/22/2024 10:18:30	0.0 V	-185.0 V	-90 V
7/19/2024 08:55:06	0.0 V	-190.0 V	-90 V
7/18/2024 09:06:31	0.0 V	-175.0 V	-90 V
7/17/2024 13:03:52	0.0 V	-185.0 V	-90 V
7/17/2024 08:53:29	0.0 V	-185.0 V	-90 V
7/16/2024 08:54:03	0.0 V	-190.0 V	-90 V
7/15/2024 10:39:29	0.0 V	-195.0 V	-90 V
7/15/2024 10:30:38	0.0 V	-180.0 V	-90 V
7/15/2024 10:13:57	0.0 V	-180.0 V	-90 V
7/15/2024 09:02:48	0.0 V	-185.0 V	-90 V
7/12/2024 08:34:22	0.0 V	-175.0 V	-90 V
7/11/2024 09:57:22	0.0 V	-180.0 V	-80 V
7/10/2024 08:53:17	0.0 V	-150.0 V	-70 V
7/9/2024 11:54:06	0.0 V	-155.0 V	-70 V
7/9/2024 11:32:31	0.0 V	-155.0 V	-70 V
7/9/2024 11:26:38	0.0 V	-155.0 V	-70 V
7/9/2024 10:39:16	0.0 V	-155.0 V	-70 V
7/9/2024 09:17:46	0.0 V	-155.0 V	-70 V
7/9/2024 08:57:06	0.0 V	-140.0 V	-70 V
7/8/2024 09:21:55	0.0 V	-165.0 V	-80 V
7/8/2024 09:16:31	0.0 V	-160.0 V	-80 V
7/5/2024 09:03:10	0.0 V	-200.0 V	-90 V
7/3/2024 13:05:52	0.0 V	-195.0 V	-100 V
7/3/2024 11:25:40	0.0 V	-195.0 V	-90 V
7/3/2024 09:13:37	0.0 V	-195.0 V	-90 V

# Performance Report

Created Date	Extract 1	Extract 2	Omega Bias
7/3/2024 08:44:49	0.0 V	-170.0 V	-90 V
7/2/2024 10:26:17	0.0 V	-170.0 V	-90 V
7/2/2024 08:58:12	0.0 V	-170.0 V	-90 V
7/1/2024 14:16:19	0.0 V	-190.0 V	-90 V
7/1/2024 10:01:10	0.0 V	-195.0 V	-90 V
6/28/2024 08:25:22	0.0 V	-195.0 V	-90 V
6/27/2024 08:34:14	0.0 V	-195.0 V	-90 V
6/27/2024 08:11:22	0.0 V	-175.0 V	-90 V
6/26/2024 07:54:24	0.0 V	-175.0 V	-90 V
6/25/2024 09:02:17	0.0 V	-190.0 V	-90 V
6/24/2024 09:30:27	0.0 V	-190.0 V	-90 V
6/21/2024 08:55:34	0.0 V	-200.0 V	-90 V
6/21/2024 08:22:44	0.0 V	-170.0 V	-90 V
6/20/2024 09:00:43	0.0 V	-170.0 V	-90 V
6/19/2024 07:51:31	0.0 V	-175.0 V	-90 V
6/18/2024 07:52:20	0.0 V	-175.0 V	-90 V
6/17/2024 08:58:45	0.0 V	-175.0 V	-90 V
6/14/2024 08:44:27	0.0 V	-195.0 V	-90 V
6/13/2024 08:42:30	0.0 V	-200.0 V	-100 V
6/12/2024 09:03:47	0.0 V	-200.0 V	-100 V
6/11/2024 08:44:40	0.0 V	-185.0 V	-100 V
6/10/2024 09:31:51	0.0 V	-170.0 V	-90 V
6/10/2024 09:17:04	0.0 V	-165.0 V	-90 V
6/10/2024 09:10:07	0.0 V	-165.0 V	-90 V
6/7/2024 09:02:38	0.0 V	-165.0 V	-90 V
6/6/2024 15:20:20	0.0 V	-165.0 V	-90 V
6/6/2024 05:03:01	0.0 V	-190.0 V	-90 V
6/6/2024 04:59:28	0.0 V	-190.0 V	-90 V
6/5/2024 08:30:26	0.0 V	-190.0 V	-90 V
6/4/2024 08:52:51	0.0 V	-200.0 V	-90 V
6/4/2024 08:39:35	0.0 V	-200.0 V	-100 V
6/4/2024 08:33:37	0.0 V	-200.0 V	-100 V
6/3/2024 10:10:17	0.0 V	-200.0 V	-100 V
6/3/2024 09:51:43	0.0 V	-175.0 V	-100 V
6/3/2024 09:44:54	0.0 V	-175.0 V	-100 V
6/3/2024 09:30:49	0.0 V	-175.0 V	-100 V
5/31/2024 08:42:32	0.0 V	-200.0 V	-100 V
5/30/2024 09:08:46	0.0 V	-200.0 V	-100 V
5/29/2024 09:04:40	0.0 V	-200.0 V	-100 V
5/29/2024 08:48:40	0.0 V	-170.0 V	-80 V
5/29/2024 08:44:08	0.0 V	-170.0 V	-80 V

# Performance Report

Created Date	Extract 1	Extract 2	Omega Bias
5/28/2024 09:34:37	0.0 V	-170.0 V	-80 V
5/24/2024 07:20:01	0.0 V	-200.0 V	-90 V
5/23/2024 10:25:13	0.0 V	-200.0 V	-90 V
5/22/2024 09:45:06	0.0 V	-200.0 V	-90 V
5/21/2024 09:06:58	0.0 V	-200.0 V	-90 V
5/21/2024 08:01:17	0.0 V	-200.0 V	-100 V
5/20/2024 17:22:27	0.0 V	-200.0 V	-100 V
5/20/2024 17:18:56	0.0 V	-200.0 V	-100 V
5/20/2024 09:20:56	0.0 V	-200.0 V	-100 V
5/17/2024 09:12:39	0.0 V	-200.0 V	-100 V
5/16/2024 08:56:23	0.0 V	-200.0 V	-100 V
5/15/2024 09:38:13	0.0 V	-200.0 V	-100 V
5/15/2024 09:21:01	0.0 V	-190.0 V	-90 V
5/14/2024 09:41:16	0.0 V	-190.0 V	-90 V
5/14/2024 09:04:40	0.0 V	-190.0 V	-90 V
5/13/2024 09:04:44	0.0 V	-190.0 V	-90 V
5/10/2024 08:57:17	0.0 V	-190.0 V	-90 V
5/9/2024 09:06:46	0.0 V	-190.0 V	-90 V
5/9/2024 08:50:21	0.0 V	-190.0 V	-90 V
5/9/2024 08:44:20	0.0 V	-190.0 V	-90 V
5/8/2024 09:39:10	0.0 V	-190.0 V	-90 V
5/7/2024 17:05:39	0.0 V	-195.0 V	-100 V
5/7/2024 16:48:43	0.0 V	-195.0 V	-100 V
5/7/2024 09:19:24	0.0 V	-195.0 V	-100 V
5/6/2024 09:15:59	0.0 V	-195.0 V	-100 V
5/6/2024 09:03:10	0.0 V	-195.0 V	-100 V
5/3/2024 09:11:06	0.0 V	-195.0 V	-100 V
5/2/2024 09:48:24	0.0 V	-190.0 V	-100 V
5/1/2024 09:22:54	0.0 V	-185.0 V	-100 V
4/30/2024 10:43:56	0.0 V	-185.0 V	-100 V
4/30/2024 08:17:01	0.0 V	-185.0 V	-100 V
4/29/2024 09:10:57	0.0 V	-185.0 V	-100 V
4/29/2024 08:57:45	0.0 V	-185.0 V	-100 V
4/26/2024 08:09:31	0.0 V	-185.0 V	-100 V
4/25/2024 09:37:51	0.0 V	-185.0 V	-100 V
4/24/2024 09:17:24	0.0 V	-195.0 V	-100 V
4/23/2024 22:46:11	0.0 V	-195.0 V	-100 V
4/23/2024 09:01:59	0.0 V	-195.0 V	-100 V
4/22/2024 10:16:34	0.0 V	-195.0 V	-100 V
4/19/2024 10:59:00	0.0 V	-200.0 V	-100 V
4/19/2024 10:07:48	0.0 V	-200.0 V	-110 V

# Performance Report

Created Date	Extract 1	Extract 2	Omega Bias
4/19/2024 09:10:32	0.0 V	-180.0 V	-100 V
4/18/2024 09:24:23	0.0 V	-180.0 V	-100 V
4/17/2024 17:03:53	0.0 V	-180.0 V	-100 V
4/17/2024 16:22:27	0.0 V	-180.0 V	-100 V
4/17/2024 09:09:54	0.0 V	-180.0 V	-100 V
4/16/2024 09:06:44	0.0 V	-200.0 V	-100 V
4/15/2024 09:14:49	0.0 V	-200.0 V	-100 V
4/12/2024 08:28:21	0.0 V	-200.0 V	-100 V
4/11/2024 08:35:01	0.0 V	-200.0 V	-100 V
4/10/2024 09:48:58	0.0 V	-195.0 V	-100 V
4/9/2024 08:56:49	0.0 V	-195.0 V	-100 V
4/8/2024 09:25:48	0.0 V	-195.0 V	-100 V
4/5/2024 08:28:47	0.0 V	-195.0 V	-100 V
4/4/2024 11:00:01	0.0 V	-190.0 V	-90 V
4/4/2024 10:45:12	0.0 V	-200.0 V	-90 V
4/3/2024 08:29:42	0.0 V	-200.0 V	-90 V
4/2/2024 09:43:44	0.0 V	-195.0 V	-90 V
4/1/2024 09:27:15	0.0 V	-195.0 V	-90 V
3/29/2024 08:53:28	0.0 V	-195.0 V	-90 V
3/28/2024 09:08:20	0.0 V	-195.0 V	-90 V
3/27/2024 16:48:32	0.0 V	-195.0 V	-90 V
3/27/2024 10:07:18	0.0 V	-195.0 V	-90 V
3/27/2024 08:49:30	0.0 V	-195.0 V	-90 V
3/26/2024 10:28:06	0.0 V	-195.0 V	-90 V
3/25/2024 10:10:30	0.0 V	-200.0 V	-100 V
3/22/2024 09:00:45	0.0 V	-190.0 V	-100 V
3/21/2024 08:44:31	0.0 V	-190.0 V	-100 V
3/20/2024 09:03:42	0.0 V	-190.0 V	-100 V
3/19/2024 13:23:15	0.0 V	-190.0 V	-100 V
3/19/2024 09:31:32	0.0 V	-190.0 V	-100 V
3/18/2024 10:47:35	0.0 V	-190.0 V	-100 V
3/15/2024 09:19:25	0.0 V	-200.0 V	-90 V
3/14/2024 09:13:05	0.0 V	-200.0 V	-90 V
3/13/2024 09:22:30	0.0 V	-200.0 V	-90 V
3/12/2024 09:10:39	0.0 V	-200.0 V	-90 V
3/11/2024 11:07:32	0.0 V	-200.0 V	-90 V
3/11/2024 09:31:05	0.0 V	-195.0 V	-100 V
3/11/2024 09:27:33	0.0 V	-195.0 V	-100 V
3/8/2024 08:29:13	0.0 V	-200.0 V	-100 V
3/7/2024 17:46:09	0.0 V	-200.0 V	-100 V
3/7/2024 13:19:13	0.0 V	-200.0 V	-100 V

# Performance Report

Created Date	Extract 1	Extract 2	Omega Bias
3/7/2024 09:28:32	0.0 V	-200.0 V	-100 V
3/7/2024 09:11:32	0.0 V	-200.0 V	-100 V
3/7/2024 09:01:08	0.0 V	-200.0 V	-100 V
3/6/2024 10:19:40	0.0 V	-200.0 V	-100 V
3/5/2024 10:15:16	0.0 V	-200.0 V	-100 V
3/5/2024 10:09:01	0.0 V	-200.0 V	-100 V
3/4/2024 11:41:00	0.0 V	-200.0 V	-100 V
3/4/2024 11:28:21	0.0 V	-200.0 V	-100 V
3/1/2024 08:43:28	0.0 V	-200.0 V	-120 V
2/29/2024 10:38:23	0.0 V	-200.0 V	-120 V
2/29/2024 10:00:25	0.0 V	-160.0 V	-110 V
2/29/2024 09:54:15	0.0 V	-160.0 V	-110 V
2/28/2024 09:32:01	0.0 V	-200.0 V	-100 V
2/27/2024 09:16:47	0.0 V	-200.0 V	-100 V
2/26/2024 10:30:35	0.0 V	-200.0 V	-100 V
2/26/2024 10:00:21	0.0 V	-200.0 V	-110 V
2/23/2024 09:07:38	0.0 V	-200.0 V	-110 V
2/22/2024 08:58:48	0.0 V	-200.0 V	-110 V
2/21/2024 09:51:13	0.0 V	-200.0 V	-110 V
2/20/2024 09:59:52	0.0 V	-200.0 V	-110 V
2/19/2024 11:30:32	0.0 V	-200.0 V	-110 V
2/19/2024 11:27:00	0.0 V	-200.0 V	-110 V
2/19/2024 10:16:07	0.0 V	-200.0 V	-120 V
2/16/2024 10:28:26	0.0 V	-200.0 V	-120 V
2/15/2024 09:20:58	0.0 V	-200.0 V	-120 V
2/14/2024 09:20:12	0.0 V	-200.0 V	-120 V
2/13/2024 10:44:41	0.0 V	-200.0 V	-120 V
2/13/2024 10:29:18	0.0 V	-200.0 V	-120 V
2/12/2024 11:24:46	0.0 V	-200.0 V	-120 V
2/12/2024 11:09:08	0.0 V	-175.0 V	-120 V
2/12/2024 10:33:45	0.0 V	-175.0 V	-120 V
2/12/2024 10:19:52	0.0 V	-175.0 V	-120 V
2/12/2024 10:03:02	0.0 V	-200.0 V	-100 V
2/9/2024 09:43:26	0.0 V	-200.0 V	-100 V
2/8/2024 09:41:08	0.0 V	-200.0 V	-100 V
2/7/2024 09:08:34	0.0 V	-200.0 V	-100 V
2/6/2024 10:08:14	0.0 V	-200.0 V	-100 V
2/5/2024 16:27:35	0.0 V	-200.0 V	-120 V
2/2/2024 09:52:22	0.0 V	-200.0 V	-90 V
2/1/2024 09:29:20	0.0 V	-200.0 V	-90 V
1/31/2024 11:01:25	0.0 V	-200.0 V	-90 V

# Performance Report

Created Date	Extract 1	Extract 2	Omega Bias
1/31/2024 10:56:52	0.0 V	-200.0 V	-90 V
1/30/2024 09:04:33	0.0 V	-200.0 V	-90 V
1/29/2024 09:09:33	0.0 V	-200.0 V	-90 V
1/26/2024 10:08:59	0.0 V	-200.0 V	-90 V
1/25/2024 09:54:25	0.0 V	-200.0 V	-90 V
1/24/2024 08:52:40	0.0 V	-200.0 V	-90 V
1/23/2024 11:08:41	0.0 V	-200.0 V	-90 V
1/22/2024 09:17:23	0.0 V	-200.0 V	-90 V
1/22/2024 09:06:26	0.0 V	-200.0 V	-100 V
1/19/2024 09:01:45	0.0 V	-200.0 V	-100 V
1/18/2024 10:29:20	0.0 V	-200.0 V	-100 V
1/17/2024 08:52:45	0.0 V	-200.0 V	-100 V
1/16/2024 14:09:54	0.0 V	-200.0 V	-100 V
1/16/2024 13:58:35	0.0 V	-200.0 V	-100 V
1/16/2024 13:45:11	0.0 V	-200.0 V	-100 V
1/15/2024 13:03:28	0.0 V	-200.0 V	-120 V
1/15/2024 10:46:25	0.0 V	-200.0 V	-120 V
1/15/2024 10:34:05	0.0 V	-200.0 V	-120 V
1/15/2024 10:25:28	0.0 V	-200.0 V	-120 V
1/15/2024 09:48:32	0.0 V	-200.0 V	-120 V
1/15/2024 09:32:45	0.0 V	-200.0 V	-120 V
1/11/2024 14:10:39	0.0 V	-200.0 V	-120 V
1/11/2024 14:00:32	0.0 V	-200.0 V	-120 V
1/11/2024 13:07:14	0.0 V	-200.0 V	-120 V
1/11/2024 12:18:32	0.0 V	-200.0 V	-120 V
1/11/2024 10:36:51	0.0 V	-200.0 V	-120 V
1/11/2024 10:28:26	0.0 V	-185.0 V	-110 V
1/11/2024 09:11:58	0.0 V	-155.0 V	-100 V
1/11/2024 09:02:27	0.0 V	-150.0 V	-80 V
1/11/2024 08:54:00	0.0 V	-150.0 V	-80 V
1/10/2024 09:10:40	0.0 V	-200.0 V	-90 V
1/9/2024 12:58:05	0.0 V	-200.0 V	-120 V
1/9/2024 12:49:35	0.0 V	-200.0 V	-120 V
1/9/2024 12:37:33	0.0 V	-165.0 V	-100 V
1/9/2024 12:22:55	0.0 V	-165.0 V	-100 V
1/9/2024 12:00:03	0.0 V	-165.0 V	-100 V
1/9/2024 11:54:42	0.0 V	-165.0 V	-100 V
1/9/2024 11:45:17	0.0 V	-165.0 V	-100 V
1/9/2024 11:40:53	0.0 V	-165.0 V	-100 V
1/9/2024 11:25:08	0.0 V	-165.0 V	-100 V
1/9/2024 11:20:04	0.0 V	-165.0 V	-100 V

# Performance Report

Created Date	Extract 1	Extract 2	Omega Bias
1/8/2024 13:49:37	0.0 V	-200.0 V	-100 V
1/8/2024 12:34:48	0.0 V	-140.0 V	-80 V
1/8/2024 12:30:18	0.0 V	-140.0 V	-80 V
1/5/2024 09:35:49	0.0 V	-180.0 V	-80 V
1/4/2024 09:13:21	0.0 V	-170.0 V	-80 V
1/4/2024 09:00:57	0.0 V	-160.0 V	-80 V
1/3/2024 08:46:17	0.0 V	-200.0 V	-100 V
1/2/2024 11:16:48	0.0 V	-200.0 V	-90 V
1/2/2024 10:38:17	0.0 V	-200.0 V	-100 V
12/29/2023 10:12:49	0.0 V	-200.0 V	-100 V
12/28/2023 08:59:35	0.0 V	-200.0 V	-90 V
12/27/2023 12:20:02	0.0 V	-200.0 V	-90 V
12/27/2023 11:34:32	0.0 V	-200.0 V	-90 V
12/27/2023 10:51:04	0.0 V	-200.0 V	-90 V
12/27/2023 10:41:08	0.0 V	-200.0 V	-90 V
12/27/2023 10:33:50	0.0 V	-200.0 V	-90 V
12/27/2023 10:28:28	0.0 V	-200.0 V	-90 V
12/22/2023 07:49:52	0.0 V	-195.0 V	-90 V
12/21/2023 08:44:43	0.0 V	-200.0 V	-90 V
12/20/2023 09:26:41	0.0 V	-200.0 V	-100 V
12/19/2023 09:55:37	0.0 V	-200.0 V	-100 V
12/18/2023 10:16:18	0.0 V	-200.0 V	-100 V
12/18/2023 10:06:38	0.0 V	-185.0 V	-90 V
12/18/2023 10:00:26	0.0 V	-185.0 V	-90 V
12/15/2023 09:45:55	0.0 V	-200.0 V	-90 V
12/14/2023 10:23:15	0.0 V	-200.0 V	-90 V
12/13/2023 10:17:40	0.0 V	-200.0 V	-90 V
12/12/2023 09:56:00	0.0 V	-200.0 V	-90 V
12/11/2023 10:31:48	0.0 V	-200.0 V	-90 V
12/8/2023 10:10:39	0.0 V	-200.0 V	-100 V
12/7/2023 09:51:50	0.0 V	-190.0 V	-80 V
12/6/2023 10:12:37	0.0 V	-200.0 V	-100 V
12/5/2023 10:02:14	0.0 V	-200.0 V	-80 V
12/4/2023 12:08:53	0.0 V	-180.0 V	-90 V
12/4/2023 11:24:17	0.0 V	-145.0 V	-70 V
12/4/2023 11:20:06	0.0 V	-145.0 V	-70 V
12/4/2023 11:16:06	0.0 V	-145.0 V	-70 V
12/4/2023 10:23:39	0.0 V	-145.0 V	-70 V
12/4/2023 10:16:55	0.0 V	-170.0 V	-90 V
12/4/2023 10:09:27	0.0 V	-145.0 V	-70 V
12/1/2023 09:45:19	0.0 V	-155.0 V	-80 V

# Performance Report

Created Date	Extract 1	Extract 2	Omega Bias
11/30/2023 11:48:17	0.0 V	-155.0 V	-80 V
11/30/2023 11:13:01	0.0 V	-150.0 V	-80 V
11/30/2023 11:05:44	0.0 V	-160.0 V	-90 V
11/30/2023 10:33:46	0.0 V	-170.0 V	-90 V
11/29/2023 10:04:26	0.0 V	-195.0 V	-100 V
11/29/2023 09:51:22	0.0 V	-190.0 V	-80 V
11/28/2023 12:50:37	0.0 V	-200.0 V	-80 V
11/28/2023 12:18:55	0.0 V	-175.0 V	-80 V
11/28/2023 12:15:04	0.0 V	-175.0 V	-80 V
11/28/2023 11:49:24	0.0 V	-170.0 V	-80 V
11/28/2023 10:22:53	0.0 V	-165.0 V	-80 V
11/28/2023 10:19:03	0.0 V	-165.0 V	-80 V
11/28/2023 10:15:20	0.0 V	-165.0 V	-80 V
11/28/2023 09:59:37	0.0 V	-170.0 V	-70 V
11/27/2023 10:28:48	0.0 V	-165.0 V	-80 V
11/27/2023 10:07:16	0.0 V	-185.0 V	-100 V
11/27/2023 10:01:25	0.0 V	-185.0 V	-100 V
11/27/2023 09:52:06	0.0 V	-185.0 V	-100 V
11/22/2023 09:50:47	0.0 V	-155.0 V	-80 V
11/21/2023 09:52:05	0.0 V	-155.0 V	-80 V
11/20/2023 09:38:08	0.0 V	-150.0 V	-80 V
11/17/2023 10:07:38	0.0 V	-175.0 V	-90 V
11/16/2023 09:42:56	0.0 V	-180.0 V	-90 V
11/15/2023 13:01:45	0.0 V	-170.0 V	-90 V
11/15/2023 12:33:52	0.0 V	-175.0 V	-90 V
11/15/2023 12:27:35	0.0 V	-175.0 V	-90 V
11/15/2023 12:17:35	0.0 V	-175.0 V	-90 V
11/15/2023 12:09:42	0.0 V	-170.0 V	-90 V
11/15/2023 10:39:09	0.0 V	-175.0 V	-90 V
11/14/2023 10:25:03	0.0 V	-200.0 V	-90 V
11/13/2023 09:42:07	0.0 V	-200.0 V	-90 V
11/10/2023 09:15:37	0.0 V	-200.0 V	-90 V
11/9/2023 09:55:52	0.0 V	-200.0 V	-90 V
11/8/2023 09:55:56	0.0 V	-200.0 V	-100 V
11/7/2023 10:07:52	0.0 V	-200.0 V	-120 V
11/7/2023 10:01:12	0.0 V	-195.0 V	-90 V
11/7/2023 09:55:11	0.0 V	-195.0 V	-90 V
11/6/2023 10:21:52	0.0 V	-200.0 V	-100 V
11/3/2023 09:44:39	0.0 V	-200.0 V	-120 V
11/2/2023 09:56:11	0.0 V	-200.0 V	-90 V
11/1/2023 09:41:33	0.0 V	-195.0 V	-90 V



# Internal Standards

INTERNAL STANDARD AREA AND RT SUMMARY

RunID: ICP-MS 2 AGILENT 7850 240826E

CCV Name: CAL BLANK

Run No: 93902

CCV SeqNo: 1961328

Lab File ID (Standard): 003CALB.d

Date Analyzed: 8/26/2024

Instrument ID: ICP-MS 2 Agilent 7850

Time Analyzed: 13:08

GC Column: ID (mm):

Length (M):

	IS1 Lithium 6		IS2 Scandium		IS3 Germanium		IS4 Indium		
	AREA #	RT #	AREA #	RT #	AREA #	RT #	AREA #	RT #	
12 HOUR STD	1609681.45	0.000	189046.05	0.000	133139.38	0.000	1529018.84	0.000	
UPPER LIMIT	8048407.25	1.000	945230.25	1.000	665696.9	1.000	7645094.2	1.000	
LOWER LIMIT	482904	-1.000	56714	-1.000	39942	-1.000	458706	-1.000	
SAMPLE NO.									
01	ICV	1.63475e+006	0	189042	0	131077	0	1.42679e+006	0
02	ICSA	1.53077e+006	0	187685	0	130243	0	1.4365e+006	0
03	CCV-A	1.19941e+006	0	194969	0	140074	0	1.52612e+006	0
04	CCB-A	1.18087e+006	0	194824	0	138336	0	1.56521e+006	0
05	MB-44989	1.21042e+006	0	191735	0	140714	0	1.59696e+006	0
06	LCS-44989	1.30401e+006	0	192579	0	140423	0	1.56194e+006	0
07	2408401-001A	800526	0	214357	0	135324	0	1.46884e+006	0
08	2408401-001ADUP	447124 *	0	225998	0	142942	0	1.48237e+006	0
09	2408401-001AMS	390101 *	0	226202	0	144958	0	1.45977e+006	0
10	2408401-001AMSD	389675 *	0	226518	0	143720	0	1.45971e+006	0
11	2408401-001AMSDIL	433838 *	0	196938	0	138409	0	1.53922e+006	0
12	2408401-001APDS	429754 *	0	229844	0	142100	0	1.51077e+006	0
13	2408287-005A	676845	0	192232	0	135518	0	1.36103e+006	0
14	2408288-001A	842044	0	213806	0	151736	0	1.44652e+006	0
15	CCV-B	993775	0	194753	0	138988	0	1.4862e+006	0
16	CCB-B	957020	0	185101	0	133510	0	1.49922e+006	0
17	MB-44989	1.12794e+006	0	190085	0	138553	0	1.52841e+006	0
18	2408288-001A	1.07485e+006	0	201782	0	139043	0	1.46682e+006	0
19	2408401-001A	868894	0	182197	0	130527	0	1.42751e+006	0
20	2408401-001AMS	638499	0	179788	0	127297	0	1.41257e+006	0
21	2408401-001AMSD	609950	0	180262	0	127940	0	1.44919e+006	0
22	2408401-001AMSDIL	672557	0	177165	0	129699	0	1.37937e+006	0
23	2408401-001APDS	636504	0	178788	0	127433	0	1.42667e+006	0
24	CCV-C	766877	0	178165	0	130393	0	1.43872e+006	0
25	CCB-C	830231	0	182321	0	131424	0	1.48439e+006	0
26	2408288-001A	1.08214e+006	0	194876	0	139415	0	1.46e+006	0
27	CCV-D	1.11659e+006	0	194384	0	138219	0	1.42804e+006	0
28	CCB-D	1.05043e+006	0	196265	0	139022	0	1.46102e+006	0
29	2408312-001C	1.0394e+006	0	191568	0	136798	0	1.43802e+006	0
30	2408312-002C	1.135e+006	0	193291	0	137312	0	1.46723e+006	0
31	2408312-003C	983523	0	191832	0	138524	0	1.48054e+006	0
32	2408312-004C	1.02377e+006	0	194566	0	139158	0	1.45282e+006	0
33	2408344-001A	872887	0	190302	0	134945	0	1.26997e+006	0
34	2408344-002A	1.57119e+006	0	221910	0	156379	0	1.62238e+006	0
35	2408346-001C	1.49324e+006	0	216596	0	152365	0	1.6469e+006	0
36	2408346-002C	1.43927e+006	0	208682	0	147436	0	1.58948e+006	0
37	2408391-017B	1.31993e+006	0	207084	0	144567	0	1.48856e+006	0
38	2408391-018B	1.27157e+006	0	200184	0	143163	0	1.46755e+006	0
39	CCV-F	1.19253e+006	0	194411	0	139935	0	1.53773e+006	0
40	CCB-F	1.20786e+006	0	190345	0	137543	0	1.5634e+006	0

INTERNAL STANDARD AREA AND RT SUMMARY

RunID: ICP-MS 2 AGILENT 7850 240826E CCV Name: CAL BLANK  
 Run No: 93902 CCV SeqNo: 1961328  
 Lab File ID (Standard): 003CALB.d Date Analyzed: 8/26/2024  
 Instrument ID: ICP-MS 2 Agilent 7850 Time Analyzed: 13:08

GC Column:	ID (mm):	Length (M):							
41	2408391-019B	1.15053e+006	0	199307	0	139495	0	1.44107e+006	0
42	2408391-020B	1.15938e+006	0	199659	0	143938	0	1.49251e+006	0
43	CCV-G	1.24506e+006	0	196195	0	141002	0	1.54401e+006	0
44	CCB-G	1.13928e+006	0	194925	0	139068	0	1.5328e+006	0

IS1 Lithium 6 = Lithium 6  
 IS2 Scandium = Scandium  
 IS3 Germanium = Germanium  
 IS4 Indium = Indium

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 240826E

CCV Name: CAL BLANK

Run No: 93902

CCV SeqNo: 1961328

Lab File ID (Standard): 003CALB.d

Date Analyzed: 8/26/2024

Instrument ID: ICP-MS 2 Agilent 7850

Time Analyzed: 13:08

GC Column: ID (mm):

Length (M):

	IS5 Terbium AREA #	RT #						
12 HOUR STD	3783565.58	0.000						
UPPER LIMIT	18917827.9	1.000						
LOWER LIMIT	1135070	-1.000						
SAMPLE NO.								
01	ICV	3.82032e+006	0					
02	ICSA	3.68171e+006	0					
03	CCV-A	3.9867e+006	0					
04	CCB-A	3.90601e+006	0					
05	MB-44989	3.88946e+006	0					
06	LCS-44989	4.00041e+006	0					
07	2408401-001A	3.9587e+006	0					
08	2408401-001ADUP	4.10027e+006	0					
09	2408401-001AMS	3.90573e+006	0					
10	2408401-001AMSD	3.86732e+006	0					
11	2408401-001AMSDIL	3.98419e+006	0					
12	2408401-001APDS	3.92109e+006	0					
13	2408287-005A	3.3946e+006	0					
14	2408288-001A	3.77941e+006	0					
15	CCV-B	3.79546e+006	0					
16	CCB-B	3.71568e+006	0					
17	MB-44989	3.7686e+006	0					
18	2408288-001A	3.8795e+006	0					
19	2408401-001A	3.72331e+006	0					
20	2408401-001AMS	3.78311e+006	0					
21	2408401-001AMSD	3.66624e+006	0					
22	2408401-001AMSDIL	3.68041e+006	0					
23	2408401-001APDS	3.72115e+006	0					
24	CCV-C	3.76035e+006	0					
25	CCB-C	3.78055e+006	0					
26	2408288-001A	3.75591e+006	0					
27	CCV-D	3.72621e+006	0					
28	CCB-D	3.82704e+006	0					
29	2408312-001C	3.71159e+006	0					
30	2408312-002C	3.61304e+006	0					
31	2408312-003C	3.72348e+006	0					
32	2408312-004C	3.73879e+006	0					
33	2408344-001A	3.15203e+006	0					
34	2408344-002A	3.75375e+006	0					
35	2408346-001C	3.87256e+006	0					
36	2408346-002C	3.89281e+006	0					
37	2408391-017B	3.79261e+006	0					
38	2408391-018B	3.72354e+006	0					
39	CCV-F	3.84428e+006	0					
40	CCB-F	3.68285e+006	0					

INTERNAL STANDARD AREA AND RT SUMMARY

RunID: ICP-MS 2 AGILENT 7850 240826E CCV Name: CAL BLANK  
 Run No: 93902 CCV SeqNo: 1961328  
 Lab File ID (Standard): 003CALB.d Date Analyzed: 8/26/2024  
 Instrument ID: ICP-MS 2 Agilent 7850 Time Analyzed: 13:08

GC Column:	ID (mm):	Length (M):					
41	2408391-019B	3.70618e+006	0				
42	2408391-020B	3.73679e+006	0				
43	CCV-G	3.76598e+006	0				
44	CCB-G	3.86943e+006	0				

IS5 Terbium = Terbium

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 240826E CCV Name: CAL BLANK  
 Run No: 93902 CCV SeqNo: 1961928  
 Lab File ID (Standard): 025CALB.d Date Analyzed: 8/27/2024  
 Instrument ID: ICP-MS 2 Agilent 7850 Time Analyzed: 10:15  
 GC Column: ID (mm): Length (M):

	IS1 Lithium 6		IS2 Scandium		IS3 Germanium		IS4 Indium		
	AREA #	RT #	AREA #	RT #	AREA #	RT #	AREA #	RT #	
12 HOUR STD	1115241.71	0.000	251581.05	0.000	175206.08	0.000	1770440.64	0.000	
UPPER LIMIT	5576208.55	1.000	1257905.25	1.000	876030.4	1.000	8852203.2	1.000	
LOWER LIMIT	334573	-1.000	75474	-1.000	52562	-1.000	531132	-1.000	
SAMPLE NO.									
01	ICV	1.29098e+006	0	248793	0	168553	0	1.77645e+006	0
02	ICSA	1.3131e+006	0	240999	0	164703	0	1.6466e+006	0
03	CCV-A	1.7503e+006	0	233756	0	165359	0	1.83168e+006	0
04	CCB-A	1.71645e+006	0	228107	0	162425	0	1.87443e+006	0
05	MB-44989	1.43451e+006	0	206258	0	151106	0	1.7686e+006	0
06	2408346-001C	1.37299e+006	0	202668	0	149083	0	1.66266e+006	0
07	2408346-002C	1.39927e+006	0	203142	0	151126	0	1.69421e+006	0
08	CCV-B	1.4244e+006	0	218393	0	155616	0	1.66276e+006	0
09	CCB-B	1.4211e+006	0	216867	0	154822	0	1.69616e+006	0
10	2408344-001A	1.53478e+006	0	223251	0	157224	0	1.77335e+006	0
11	2408344-002A	1.50413e+006	0	222830	0	159179	0	1.78638e+006	0
12	2408344-003A	1.40998e+006	0	222951	0	156814	0	1.71728e+006	0
13	CCV-C	1.77463e+006	0	234423	0	167172	0	1.86494e+006	0
14	CCB-C	1.7665e+006	0	236691	0	164956	0	1.84168e+006	0
15	2408344-003A	1.86485e+006	0	230943	0	162151	0	1.7636e+006	0
16	CCV-D	1.79711e+006	0	233280	0	163873	0	1.86863e+006	0
17	CCB-D	1.73265e+006	0	230854	0	163554	0	1.82235e+006	0

IS1 Lithium 6 = Lithium 6  
 IS2 Scandium = Scandium

IS3 Germanium = Germanium  
 IS4 Indium = Indium

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 240826E CCV Name: CAL BLANK  
 Run No: 93902 CCV SeqNo: 1961928  
 Lab File ID (Standard): 025CALB.d Date Analyzed: 8/27/2024  
 Instrument ID: ICP-MS 2 Agilent 7850 Time Analyzed: 10:15  
 GC Column: ID (mm): Length (M):

	IS5 Terbium AREA #	RT #						
12 HOUR STD	3986983	0.000						
UPPER LIMIT	19934915	1.000						
LOWER LIMIT	1196095	-1.000						
SAMPLE NO.								
01	CCV-A	4.28087e+006	0					
02	CCB-A	4.30289e+006	0					
03	ICV	4.05538e+006	0					
04	ICSA	3.95193e+006	0					
05	MB-44989	4.13043e+006	0					
06	2408346-001C	4.1273e+006	0					
07	2408346-002C	3.99922e+006	0					
08	CCV-B	4.2172e+006	0					
09	CCB-B	4.09265e+006	0					
10	2408344-001A	4.09822e+006	0					
11	2408344-002A	4.07984e+006	0					
12	2408344-003A	4.12531e+006	0					
13	CCV-C	4.31325e+006	0					
14	CCB-C	4.35803e+006	0					
15	2408344-003A	4.35467e+006	0					
16	CCV-D	4.14636e+006	0					
17	CCB-D	4.24622e+006	0					

IS5 Terbium = Terbium

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.

# Supporting Data



### 3010A Total Metals in Water Prep Bench Sheet

Analyst: *Camilo Gonsola*  
 Date and Time: *8/26/2024*  
 Batch: *4498*

**Equipment**  
 Thermometer: *85*  
 Thermometer CF: *-0.1*  
 Hot Block: *10*  
 Pipette: *42 46 38*  
 Other:

Spikes / Chemicals / Reagents	Omega ID	Amount Used	Final Volume
Metals Water Spike	<i>30157</i>	1.0 mL	
EAL-STD-2	<i>29587</i>	0.5 mL	
500 ppb Hg Standard	<i>30256</i>	0.25 mL	
Concentrated Nitric Acid	<i>8818</i>	0.5 mL	
1:1 HCl	<i>6788</i>	0.5 mL	
50mL Tubes	<i>8312</i>		
10mL Tubes	<i>8342</i>		
pH Strips	<i>30157</i>		
Metals Spike (PDS)	<i>30157</i>	0.2 mL	
EAL-STD-2 (PDS)	<i>29587</i>	0.1 mL	
500 ppb Hg Standard (PDS)	<i>30256</i>	0.05 mL	

**Notes/Modifications**  
*344 17 2A*  
*Unpreservable*  
  
*344-3A*  
*83916-c*  
*Preservable*  
*didn't work*  
*insoluble*  
*2x)*  
*KOH*

Digestion Time/Temp.		
Time START:	<i>10:47</i>	
Time STOP:	<i>2:00</i>	
	Observed	Plus CF
Temp. IN:	<i>91.8</i>	<i>91.4</i>
Temp. OUT:	<i>91.6</i>	<i>91.2</i>
Time START:		
Time STOP:		
	Observed	Plus CF
Temp. IN:		
Temp. OUT:		

I acknowledge the spike/chemical/reagent amounts listed above were used  
 Initial/Date: *CG 8/26/2024*

Samples verified pH < 2  
 Initial/Date: *CG 8/26/2024*

Dilutions	
Sample ID	Dilution Description
<i>3771A32A</i>	<i>2x digest</i>
<i>288</i>	<i>5x</i>
<i>34412AA</i>	<i>box 462 not used</i>
	<i>CG</i>
	<i>8/26/24</i>

Sign and date below if you contributed to the preparation of this batch  
  
*Camilo Gonsola* *Camilo Gonsola* *8/26/2024*

Prep Start Date: 8/26/2024 10:28:12

Prep End Date:

Technician: Cammeo Gaviota

Prep Factor Units:  
mL / mL

Prep Batch ID: 44989 Prep Code: PREP-3010-TW

Method No: SW3010A

Sample ID	ClientSampleID	Matrix	Sample Amount (mL)	Final Vol (mL)	Prep Factor	PrepStart	PrepEnd
MB-44989		Aqueous	50	50	1.000	8/26/2024	Preliminary
LCS-44989		Aqueous	50	50	1.000	8/26/2024	Preliminary
2408401-001A	6011 SA	Water	50	50	1.000	8/26/2024	Preliminary
2408401-001ADUP		Water	50	50	1.000	8/26/2024	Preliminary
2408401-001AMS		Water	50	50	1.000	8/26/2024	Preliminary
2408401-001AMSDIL		Water	50	50	1.000	8/26/2024	Preliminary
2408401-001AMSD		Water	50	50	1.000	8/26/2024	Preliminary
2408401-001APDS		Water	50	50	1.000	8/26/2024	Preliminary
2408287-005A	SHOP-MW-1	Water	50	50	1.000	8/26/2024	Preliminary
2408288-001A	Market Place OWS	Sludge	50	50	1.000	8/26/2024	Preliminary
2408312-001C	GEI-11_082024	Water	50	50	1.000	8/26/2024	Preliminary
2408312-002C	GEI-12_082024	Water	50	50	1.000	8/26/2024	Preliminary
2408312-003C	GEI-13_082024	Water	50	50	1.000	8/26/2024	Preliminary
2408312-004C	Dup_082024	Water	50	50	1.000	8/26/2024	Preliminary
2408344-001A	Ticad Filter Containme	Wastewater	50	50	1.000	8/26/2024	Preliminary
2408344-002A	Cad Plating Water #1	Wastewater	50	50	1.000	8/26/2024	Preliminary
<del>2408344-003A</del>	Cad Plating Water #2	Wastewater	50	50	1.000	8/26/2024	Preliminary
2408346-001C	GEI-1	Water	50	50	1.000	8/26/2024	Preliminary
2408346-002C	GEI-2	Water	50	50	1.000	8/26/2024	Preliminary
2408391-017B	MW2	Water	50	50	1.000	8/26/2024	Preliminary
2408391-018B	MW3	Water	50	50	1.000	8/26/2024	Preliminary
2408391-019B	MW4	Water	50	50	1.000	8/26/2024	Preliminary
2408391-020B	MW5	Water	50	50	1.000	8/26/2024	Preliminary

Prep Start Date: 8/26/2024 10:28:12  
 Prep End Date: 8/26/2024 3:44:57 P  
 Technician: Cammeo Gaviota

Prep Factor Units:  
 mL / mL

Prep Batch ID: 44989 Prep Code: PREP-3010-TW Method No: SW3010A

Sample ID	ClientSampleID	Matrix	Sample Amount (mL)	Final Vol (mL)	Prep Factor	PrepStart	PrepEnd
MB-44989		Aqueous	50	50	1.000	8/26/2024	8/26/2024
LCS-44989		Aqueous	50	50	1.000	8/26/2024	8/26/2024
2408401-001A	6011 SA	Water	50	50	1.000	8/26/2024	8/26/2024
2408401-001ADUP		Water	50	50	1.000	8/26/2024	8/26/2024
2408401-001AMS		Water	50	50	1.000	8/26/2024	8/26/2024
2408401-001AMSDIL		Water	50	50	1.000	8/26/2024	8/26/2024
2408401-001AMSD		Water	50	50	1.000	8/26/2024	8/26/2024
2408401-001APDS		Water	50	50	1.000	8/26/2024	8/26/2024
2408287-005A	SHOP-MW-1	Water	50	50	1.000	8/26/2024	8/26/2024
2408288-001A	Market Place OWS	Sludge	50	50	1.000	8/26/2024	8/26/2024
2408312-001C	GEI-11_082024	Water	50	50	1.000	8/26/2024	8/26/2024
2408312-002C	GEI-12_082024	Water	50	50	1.000	8/26/2024	8/26/2024
2408312-003C	GEI-13_082024	Water	50	50	1.000	8/26/2024	8/26/2024
2408312-004C	Dup_082024	Water	50	50	1.000	8/26/2024	8/26/2024
2408344-001A	Ticad Filter Containme	Wastewater	25	50	2.000	8/26/2024	8/26/2024
2408344-002A	Cad Plating Water #1	Wastewater	25	50	2.000	8/26/2024	8/26/2024
2408344-003A	Cad Plating Water #2	Wastewater	25	50	2.000	8/26/2024	8/26/2024
2408346-001C	GEI-1	Water	50	50	1.000	8/26/2024	8/26/2024
2408346-002C	GEI-2	Water	50	50	1.000	8/26/2024	8/26/2024
2408391-017B	MW2	Water	50	50	1.000	8/26/2024	8/26/2024
2408391-018B	MW3	Water	50	50	1.000	8/26/2024	8/26/2024
2408391-019B	MW4	Water	50	50	1.000	8/26/2024	8/26/2024
2408391-020B	MW5	Water	50	50	1.000	8/26/2024	8/26/2024

# Reporting Checklist



Analyst: Melanie  
 Date: 08/26/2024  
 Prep #: 44989  
 Run(s) #: 93902

Workorder(s): 2408401, 287, 288  
 Analysis: M-6020-TW

Y/N		Reviewed
N	Run complete? (i.e., all QC, samples, dilutions present)	<input checked="" type="checkbox"/>
N	All QC within limits? <input type="checkbox"/> Exceedances acceptable per QA Manual and/or Auth'd by PM ___?	<input checked="" type="checkbox"/>
	<input type="checkbox"/> CCV out <input type="checkbox"/> LCS out <input checked="" type="checkbox"/> MS out <input checked="" type="checkbox"/> Blank hits <input type="checkbox"/> IS/surr out <input checked="" type="checkbox"/> RPD out <input type="checkbox"/> Hold time <input type="checkbox"/> Other _____ B-flags for Cd, digested new MB and B-flags were resolved	
Y	Any pending dilutions, re-extracts, or reanalysis to be completed in future run?	
N/A	Manual entries/narratives reviewed for accuracy? (note below)    Analyst: _____    Reviewer: _____	<input type="checkbox"/>
<input checked="" type="checkbox"/>	Omega checks performed?	<input checked="" type="checkbox"/>
	<input checked="" type="checkbox"/> SampID, Test Code, Type, Prep	
	<input checked="" type="checkbox"/> PMOIST, pH	
	<input checked="" type="checkbox"/> BLKref, SPKref, RPDref, CCVref	
	<input checked="" type="checkbox"/> Attachments	<input checked="" type="checkbox"/>
	<input type="checkbox"/> Sequence <input type="checkbox"/> Cgrams <input checked="" type="checkbox"/> Bench Sheets <input type="checkbox"/> Perf Checks <input checked="" type="checkbox"/> Tech Doc	<input checked="" type="checkbox"/>
	<input checked="" type="checkbox"/> Related Info	<input checked="" type="checkbox"/>
	<input type="checkbox"/> ICAL Ref <input type="checkbox"/> ICAL Ack/QA'd? <input checked="" type="checkbox"/> Spiking Info/CCV Std <input type="checkbox"/> _____	<input checked="" type="checkbox"/>
	<input checked="" type="checkbox"/> Reporting Checks	<input checked="" type="checkbox"/>
	<input type="checkbox"/> Dilutions data/narr redundancy check <input type="checkbox"/> RLs OK (low wt, high pmoist, dilutions)	

**Notes for Reviewer**

By signing, I attest that I have followed the SOP

Melanie Esparza 08/26/2024

MG 8/26/2024

Analyst \_\_\_\_\_ Date \_\_\_\_\_

Reviewer \_\_\_\_\_ Date \_\_\_\_\_

**DATA SET for Review - Deliverable Requirements**

**Volatile Organic Compounds by EPA 8260D**

Fremont Analytical Work Order No. 2408312

**GeoEngineers**

Project Name: 701/709 South Jackson

Project Number: 24504-001-04

This data set contains the following:

- Analytical Sequence Summary
- Calibration Information
- Tune Information
- Internal Standards Report

Data Directory: D:\GC-19\Data\081524\

SampleName	MiscInfo	Vial	Multiplier	Injection Time
1) 081501.D R	8260_90tol.M O-VOC-W		1.000	15 Aug 2024 09:10 am
2) 081502.D VOC W CCV A	8260_90tol.M O-VOC-W	1	1.000	15 Aug 2024 09:43 am
3) 081503.D VOC S CCV A	8260_90tol.M O-VOC-W	2	1.000	15 Aug 2024 10:16 am
4) 081504.D GX CCV A	8260_90tol.M O-VOC-W	3	1.000	15 Aug 2024 10:49 am
5) 081505.D R	8260_90tol.M O-VOC-W		1.000	15 Aug 2024 11:21 am
6) 081506.D R	8260_90tol.M O-VOC-W		1.000	15 Aug 2024 03:32 pm
7) 081507.D MB S	8260_90tol.M O-VOC-S	4	1.000	15 Aug 2024 04:05 pm
8) 081508.D 2408199-001B	8260_90tol.M O-VOC-S	5	1.000	15 Aug 2024 04:38 pm
9) 081509.D 2408199-002B 0.5X	8260_90tol.M O-VOC-S	6	1.000	15 Aug 2024 05:11 pm
10) 081510.D 2408199-003B	8260_90tol.M O-VOC-S	7	1.000	15 Aug 2024 05:44 pm
11) 081511.D 2408222-001B	8260_90tol.M O-VOC-S	8	1.000	15 Aug 2024 06:17 pm
12) 081512.D 2408222-001BDUP	8260_90tol.M O-VOC-S	9	1.000	15 Aug 2024 06:50 pm
13) 081513.D 2408222-002B 0.5X	8260_90tol.M O-VOC-S	10	1.000	15 Aug 2024 07:23 pm
14) 081514.D 2408222-009B 0.5X	8260_90tol.M O-VOC-S	11	1.000	15 Aug 2024 07:56 pm
15) 081515.D 2408222-004B	8260_90tol.M O-VOC-S	13	1.000	15 Aug 2024 08:29 pm
16) 081516.D 2408222-004BDUP	8260_90tol.M O-VOC-S	14	1.000	15 Aug 2024 09:03 pm
17) 081517.D R	8260_90tol.M O-VOC-S		1.000	15 Aug 2024 09:34 pm
18) 081518.D VOC S CCV B	8260_90tol.M O-VOC-S	15	1.000	15 Aug 2024 10:07 pm
19) 081519.D GX CCV B	8260_90tol.M O-VOC-S	16	1.000	15 Aug 2024 10:40 pm
20) 081520.D R	8260_90tol.M O-VOC-S		1.000	15 Aug 2024 11:12 pm
21) 081521.D 2408222-003B	8260_90tol.M O-VOC-S	12	1.000	15 Aug 2024 11:45 pm

22) 081522.D		8260_90tol.M					
2408222-005B	O-VOC-S		17	1.000	16 Aug 2024	12:18	am
23) 081523.D		8260_90tol.M					
2408222-006B	O-VOC-S		18	1.000	16 Aug 2024	12:51	am
24) 081524.D		8260_90tol.M					
2408222-007B	O-VOC-S		19	1.000	16 Aug 2024	01:24	am
25) 081525.D		8260_90tol.M					
2408222-008B	O-VOC-S		20	1.000	16 Aug 2024	01:58	am
26) 081526.D		8260_90tol.M					
2408222-010B	O-VOC-S		21	1.000	16 Aug 2024	02:31	am
27) 081527.D		8260_90tol.M					
2408222-011B	O-VOC-S		22	1.000	16 Aug 2024	03:04	am
28) 081528.D		8260_90tol.M					
2408222-012B	O-VOC-S		23	1.000	16 Aug 2024	03:37	am
29) 081529.D		8260_90tol.M					
2408222-013B	O-VOC-S		24	1.000	16 Aug 2024	04:10	am
30) 081530.D		8260_90tol.M					
2408222-014B	O-VOC-S		25	1.000	16 Aug 2024	04:43	am
31) 081531.D		8260_90tol.M					
2408222-015B	O-VOC-S		26	1.000	16 Aug 2024	05:16	am
32) 081532.D		8260_90tol.M					
2408222-016B	O-VOC-S		27	1.000	16 Aug 2024	05:49	am
33) 081533.D		8260_90tol.M					
2408186-001B 10X	O-VOC-S		28	1.000	16 Aug 2024	06:22	am
34) 081534.D		8260_90tol.M					
R	O-VOC-S			1.000	16 Aug 2024	06:54	am
35) 081535.D		8260_90tol.M					
2408222-003BMS VOC	O-VOC-S		29	1.000	16 Aug 2024	07:27	am
36) 081536.D		8260_90tol.M					
2408222-005BMS GX	O-VOC-S		30	1.000	16 Aug 2024	08:00	am
37) 081537.D		8260_90tol.M					
R	O-VOC-S			1.000	16 Aug 2024	08:32	am
38) 081538.D		8260_90tol.M					
VOC S CCV C	O-VOC-S		31	1.000	16 Aug 2024	09:05	am
39) 081539.D		8260_90tol.M					
GX CCV C	O-VOC-S		32	1.000	16 Aug 2024	09:38	am
40) 081540.D		8260_90tol.M					
R	O-VOC-S			1.000	16 Aug 2024	10:09	am
41) 081541.D		8260_90tol.M					
2408186-001B 10X RR	O-VOC-S		33	1.000	16 Aug 2024	10:48	am
42) 081542.D		8260_90tol.M					
R	O-VOC-S			1.000	16 Aug 2024	11:19	am
43) 081543.D		8260_90tol.M					
GX CCV D	O-VOC-S		34	1.000	16 Aug 2024	11:52	am
44) 081544.D		8260_90tol.M					
R	O-VOC-S			1.000	16 Aug 2024	02:36	pm
45) 081545.D		8260_90tol.M					

MB		O-VOC-GX-W	35	1.000	16 Aug 2024	03:09	pm
46)	081546.D	8260_90tol.M					
GX	W 25	O-VOC-GX-W	36	1.000	16 Aug 2024	03:42	pm
47)	081547.D	8260_90tol.M					
GX	S 25	O-VOC-GX-W	37	1.000	16 Aug 2024	04:15	pm
48)	081548.D	8260_90tol.M					
GX	W 50	O-VOC-GX-W	38	1.000	16 Aug 2024	04:48	pm
49)	081549.D	8260_90tol.M					
GX	S 50	O-VOC-GX-W	39	1.000	16 Aug 2024	05:21	pm
50)	081550.D	8260_90tol.M					
GX	CCV D	O-VOC-GX-W	40	1.000	16 Aug 2024	05:54	pm
51)	081551.D	8260_90tol.M					
R		O-VOC-GX-W		1.000	16 Aug 2024	06:26	pm
52)	081552.D	8260_90tol.M					
R		O-VOC-GX-W		1.000	16 Aug 2024	06:58	pm
53)	081553.D	8260_90tol.M					
R		O-VOC-GX-W		1.000	16 Aug 2024	07:29	pm
54)	081554.D	8260_90tol.M					
R		O-VOC-GX-W		1.000	16 Aug 2024	08:01	pm
55)	081555.D	8260_90tol.M					
VOC	S ICAL 1	O-VOC-S	41	1.000	16 Aug 2024	08:34	pm
56)	081556.D	8260_90tol.M					
VOC	S ICAL 2	O-VOC-S	42	1.000	16 Aug 2024	09:07	pm
57)	081557.D	8260_90tol.M					
VOC	S ICAL 3	O-VOC-S	43	1.000	16 Aug 2024	09:40	pm
58)	081558.D	8260_90tol.M					
VOC	S ICAL 4	O-VOC-S	44	1.000	16 Aug 2024	10:13	pm
59)	081559.D	8260_90tol.M					
VOC	S ICAL 5	O-VOC-S	45	1.000	16 Aug 2024	10:46	pm
60)	081560.D	8260_90tol.M					
VOC	S ICAL 6	O-VOC-S	46	1.000	16 Aug 2024	11:20	pm
61)	081561.D	8260_90tol.M					
VOC	S ICAL 7	O-VOC-S	47	1.000	16 Aug 2024	11:53	pm
62)	081562.D	8260_90tol.M					
VOC	S ICAL 8	O-VOC-S	48	1.000	17 Aug 2024	12:26	am
63)	081563.D	8260_90tol.M					
R		O-VOC-S		1.000	17 Aug 2024	12:57	am
64)	081564.D	8260_90tol.M					
R		O-VOC-S		1.000	17 Aug 2024	01:29	am
65)	081565.D	8260_90tol.M					
R		O-VOC-S		1.000	17 Aug 2024	02:01	am
66)	081566.D	8260_90tol.M					
ICB		O-VOC-S	49	1.000	17 Aug 2024	02:34	am
67)	081567.D	8260_90tol.M					
ICV		O-VOC-S	50	1.000	17 Aug 2024	03:07	am
68)	081568.D	8260_90tol.M					
R		O-VOC-S		1.000	17 Aug 2024	03:39	am



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69) 081903.D 8260\_90to1.M  
VOC S ICV RR O-VOC-W 52 1.000 19 Aug 2024 10:08 am  
-----

70) 081905.D 8260\_90to1.M  
VOC S CCV O-VOC-W 56 1.000 19 Aug 2024 11:14 am  
-----

Data Directory: D:\GC-19\Data\082124\

SampleName	MiscInfo	Vial	Multiplier	Injection Time
1) 081989.D VOC W CCV D	8260_90tol.M O-VOC-W	34	1.000	21 Aug 2024 08:37 am
2) 081990.D GX CCV F	8260_90tol.M O-VOC-W	35	1.000	21 Aug 2024 09:10 am
3) 081991.D R	8260_90tol.M O-VOC-W		1.000	21 Aug 2024 09:41 am
4) 081992.D MB W	8260_90tol.M O-VOC-W	37	1.000	21 Aug 2024 10:14 am
5) 082101.D R	8260_90tol.M O-VOC-W		1.000	21 Aug 2024 10:52 am
6) 082102.D 2408312-005A TB	8260_90tol.M O-VOC-W	1	1.000	21 Aug 2024 11:25 am
7) 082103.D 2408246-001A	8260_90tol.M O-VOC-W	2	1.000	21 Aug 2024 11:58 am
8) 082104.D 2408246-002A	8260_90tol.M O-VOC-W	3	1.000	21 Aug 2024 12:31 pm
9) 082105.D 2408246-003A	8260_90tol.M O-VOC-W	4	1.000	21 Aug 2024 01:04 pm
10) 082106.D 2408246-004A	8260_90tol.M O-VOC-W	5	1.000	21 Aug 2024 01:37 pm
11) 082107.D 2408246-005A	8260_90tol.M O-VOC-W	6	1.000	21 Aug 2024 02:10 pm
12) 082108.D 2408246-006A	8260_90tol.M O-VOC-W	7	1.000	21 Aug 2024 02:43 pm
13) 082109.D 2408246-007A	8260_90tol.M O-VOC-W	8	1.000	21 Aug 2024 03:16 pm
14) 082110.D 2408246-008A	8260_90tol.M O-VOC-W	9	1.000	21 Aug 2024 03:49 pm
15) 082111.D 2408312-001A	8260_90tol.M O-VOC-W	10	1.000	21 Aug 2024 04:22 pm
16) 082112.D 2408312-001ADUP	8260_90tol.M O-VOC-W	11	1.000	21 Aug 2024 04:56 pm
17) 082113.D <del>2408312-002A</del> GHOST KJ 8/28/24	8260_90tol.M O-VOC-W	12	1.000	21 Aug 2024 05:13 pm
18) 082114.D 2408312-003A 002A KJ 8/28/24	8260_90tol.M O-VOC-W	13	1.000	21 Aug 2024 05:30 pm
19) 082115.D 2408312-004A 003A KJ 8/28/24	8260_90tol.M O-VOC-W	14	1.000	21 Aug 2024 06:03 pm
20) 082116.D 2408312-002AMS-voc KJ 8/28/24	8260_90tol.M O-VOC-W	15	1.000	21 Aug 2024 06:36 pm
21) 082117.D 2408312-003AMS-gx KJ 8/28/24	002AMS VOC O-VOC-W	16	1.000	21 Aug 2024 07:09 pm

22)	082118.D	8260_90to1.M						
R-	2408312-003AMS GX	O-VOC-W		1.000	21 Aug 2024	07:42	pm	
	<del>KJ8/28/24</del>							
23)	082119.D	8260_90to1.M						
GX-CCV-A R		O-VOC-W	17	1.000	21 Aug 2024	08:14	pm	
	<del>KJ8/28/24</del>							
24)	082120.D	8260_90to1.M						
R-	GX CCV	O-VOC-W		1.000	21 Aug 2024	08:47	pm	
	<del>KJ8/28/24</del>							

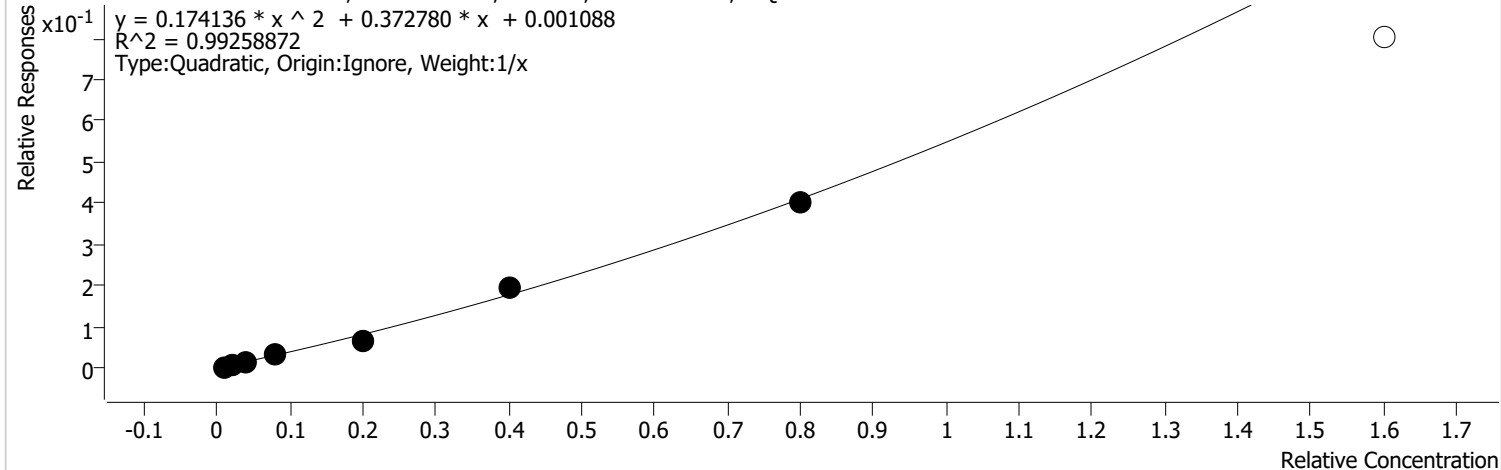
# Calibration

# Calibration Report

Batch Path	D:\GC-19\Data\081524\QuantResults\voc s ical.batch.bin		
Analysis Time	8/19/2024 12:33 PM	Analyst Name	FA\GC19
Report Time	8/19/2024 12:34:01 PM	Reporter Name	FA\GC19
Last Calib Update	8/19/2024 12:17 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

**Dichlorodifluoromethane %RSE = 11.3**

Dichlorodifluoromethane - 8 Levels, 7 Levels Used, 8 Points, 7 Points Used, 0 QCs



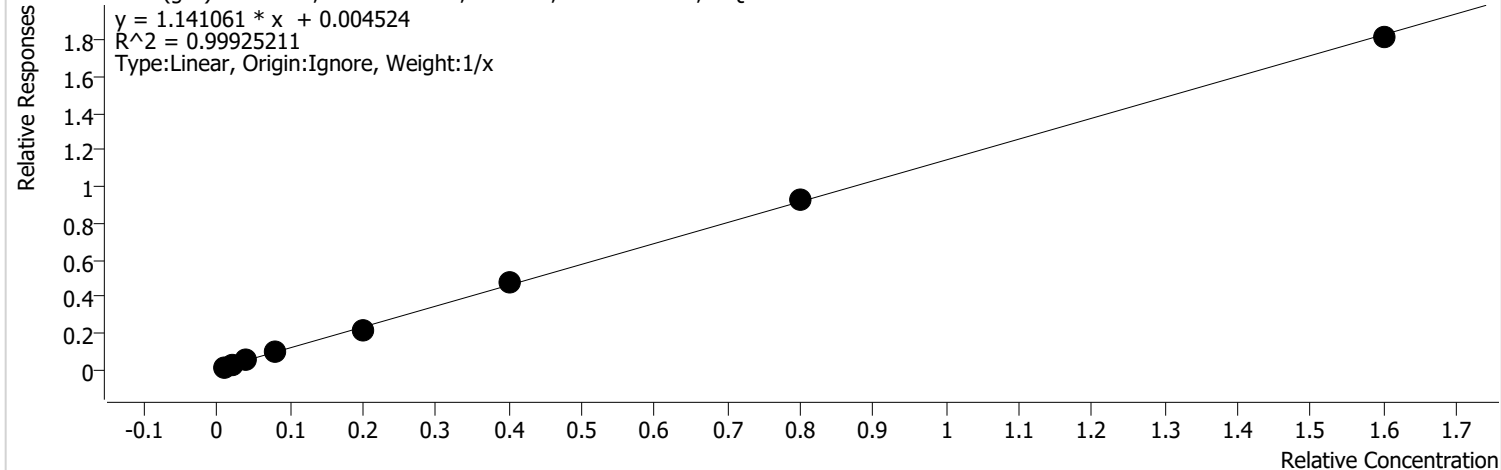
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
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D:\GC-19\Data\081524\081556.D	Calibration	2	x	6468	0.5000	0.4545	
D:\GC-19\Data\081524\081557.D	Calibration	3	x	12416	1.0000	0.4345	
D:\GC-19\Data\081524\081558.D	Calibration	4	x	22672	2.0000	0.3991	
D:\GC-19\Data\081524\081559.D	Calibration	5	x	47883	5.0000	0.3369	
D:\GC-19\Data\081524\081560.D	Calibration	6	x	141465	10.0000	0.4958	
D:\GC-19\Data\081524\081561.D	Calibration	7	x	306286	20.0000	0.5055	
D:\GC-19\Data\081524\081562.D	Calibration	8		595844	40.0000	0.5008	

# Calibration Report

Batch Path	D:\GC-19\Data\081524\QuantResults\voc s ical.batch.bin		
Analysis Time	8/19/2024 12:33 PM	Analyst Name	FA\GC19
Report Time	8/19/2024 12:34:02 PM	Reporter Name	FA\GC19
Last Calib Update	8/19/2024 12:17 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

**Chloromethane (gas) %RSE = 9.2**

Chloromethane (gas) - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs

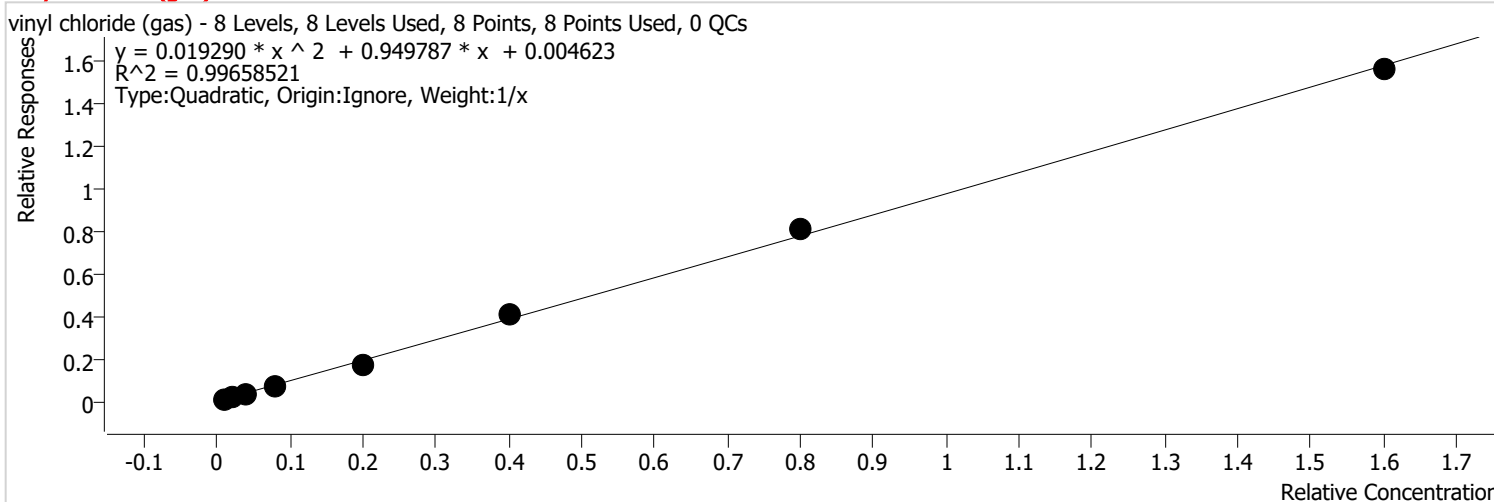


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
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D:\GC-19\Data\081524\081556.D	Calibration	2	x	17847	0.5000	1.2541	
D:\GC-19\Data\081524\081557.D	Calibration	3	x	34003	1.0000	1.1899	
D:\GC-19\Data\081524\081558.D	Calibration	4	x	66492	2.0000	1.1704	
D:\GC-19\Data\081524\081559.D	Calibration	5	x	157272	5.0000	1.1065	
D:\GC-19\Data\081524\081560.D	Calibration	6	x	342012	10.0000	1.1987	
D:\GC-19\Data\081524\081561.D	Calibration	7	x	706124	20.0000	1.1653	
D:\GC-19\Data\081524\081562.D	Calibration	8	x	1348695	40.0000	1.1335	

# Calibration Report

Batch Path	D:\GC-19\Data\081524\QuantResults\voc s ical.batch.bin		
Analysis Time	8/19/2024 12:33 PM	Analyst Name	FA\GC19
Report Time	8/19/2024 12:34:02 PM	Reporter Name	FA\GC19
Last Calib Update	8/19/2024 12:17 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

**vinyl chloride (gas) %RSE = 21.3**



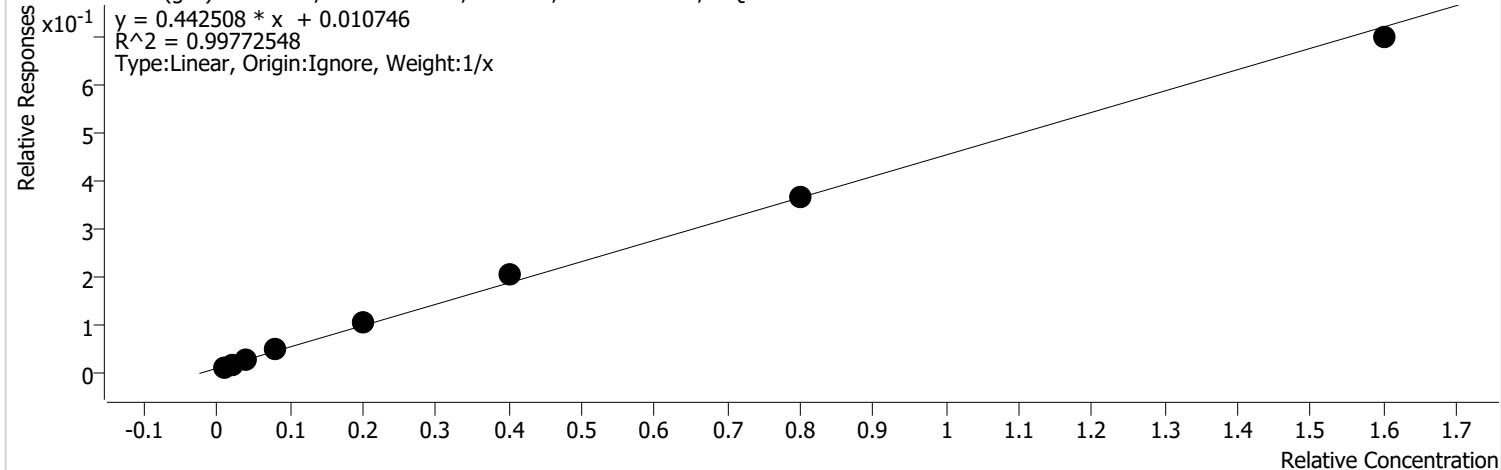
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
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D:\GC-19\Data\081524\081556.D	Calibration	2	x	14934	0.5000	1.0494	
D:\GC-19\Data\081524\081557.D	Calibration	3	x	27425	1.0000	0.9597	
D:\GC-19\Data\081524\081558.D	Calibration	4	x	51807	2.0000	0.9119	
D:\GC-19\Data\081524\081559.D	Calibration	5	x	120065	5.0000	0.8448	
D:\GC-19\Data\081524\081560.D	Calibration	6	x	291493	10.0000	1.0217	
D:\GC-19\Data\081524\081561.D	Calibration	7	x	616294	20.0000	1.0171	
D:\GC-19\Data\081524\081562.D	Calibration	8	x	1155498	40.0000	0.9711	

# Calibration Report

Batch Path	D:\GC-19\Data\081524\QuantResults\voc s ical.batch.bin		
Analysis Time	8/19/2024 12:33 PM	Analyst Name	FA\GC19
Report Time	8/19/2024 12:34:02 PM	Reporter Name	FA\GC19
Last Calib Update	8/19/2024 12:17 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

**Bromomethane (gas) %RSE = 8.3**

Bromomethane (gas) - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs



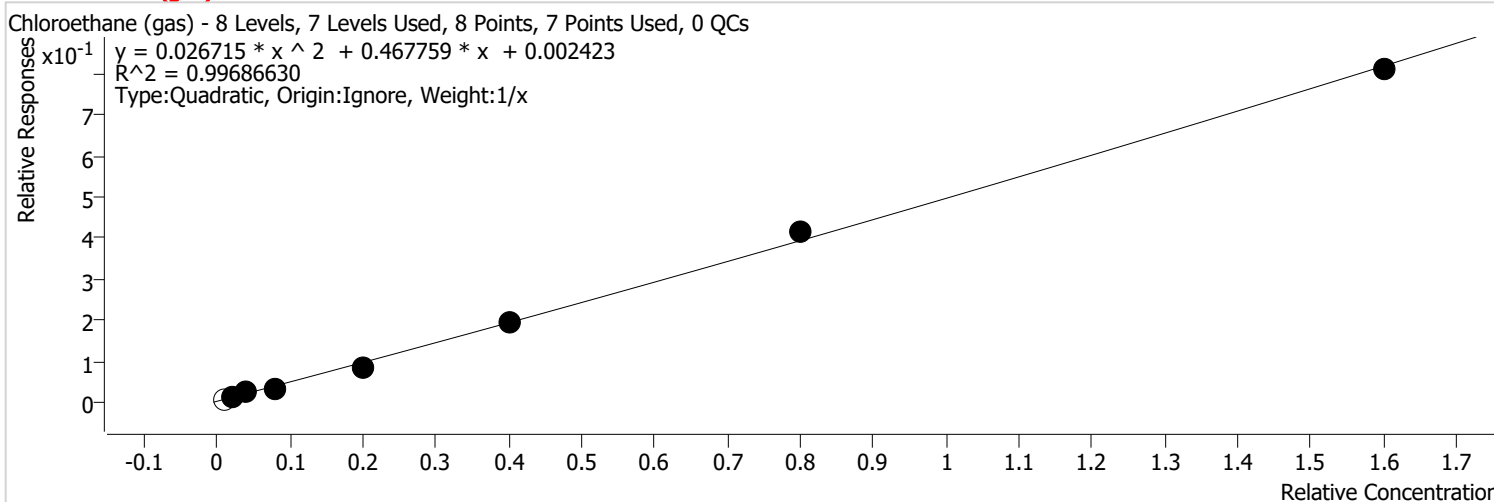
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
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D:\GC-19\Data\081524\081556.D	Calibration	2	x	13386	0.5000	0.9406	
D:\GC-19\Data\081524\081557.D	Calibration	3	x	20553	1.0000	0.7192	
D:\GC-19\Data\081524\081558.D	Calibration	4	x	34492	2.0000	0.6071	
D:\GC-19\Data\081524\081559.D	Calibration	5	x	74751	5.0000	0.5259	
D:\GC-19\Data\081524\081560.D	Calibration	6	x	145471	10.0000	0.5099	
D:\GC-19\Data\081524\081561.D	Calibration	7	x	275288	20.0000	0.4543	
D:\GC-19\Data\081524\081562.D	Calibration	8	x	517886	40.0000	0.4352	



# Calibration Report

Batch Path	D:\GC-19\Data\081524\QuantResults\voc s ical.batch.bin		
Analysis Time	8/19/2024 12:33 PM	Analyst Name	FA\GC19
Report Time	8/19/2024 12:34:02 PM	Reporter Name	FA\GC19
Last Calib Update	8/19/2024 12:17 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

**Chloroethane (gas) %RSE = 14.3**



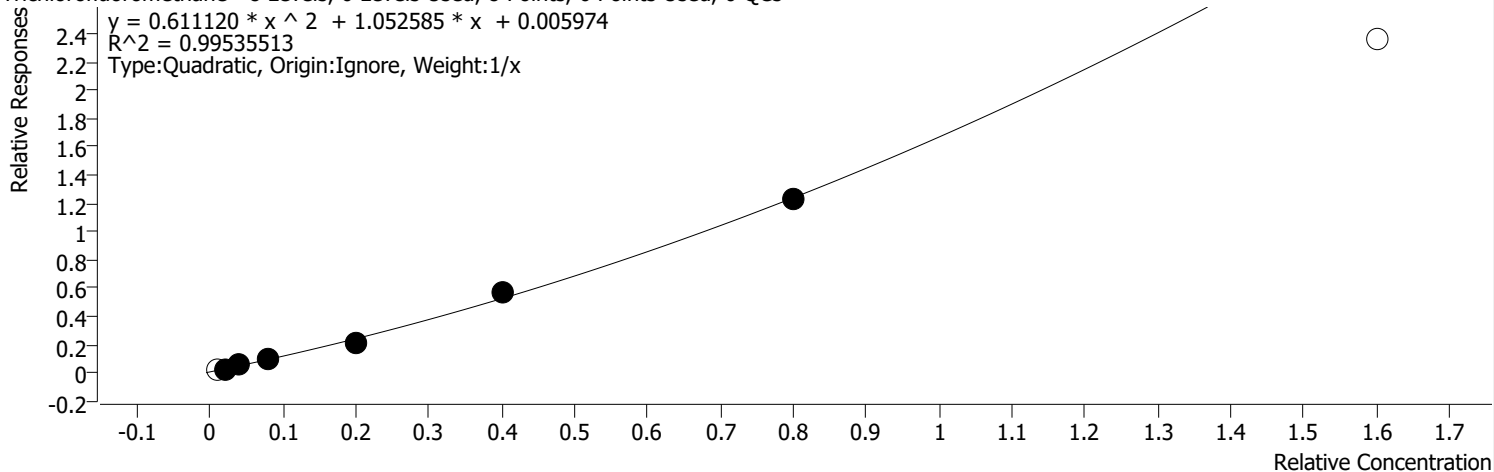
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
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D:\GC-19\Data\081524\081557.D	Calibration	3	x	17964	1.0000	0.6286	
D:\GC-19\Data\081524\081558.D	Calibration	4	x	24899	2.0000	0.4383	
D:\GC-19\Data\081524\081559.D	Calibration	5	x	59947	5.0000	0.4218	
D:\GC-19\Data\081524\081560.D	Calibration	6	x	140067	10.0000	0.4909	
D:\GC-19\Data\081524\081561.D	Calibration	7	x	313378	20.0000	0.5172	
D:\GC-19\Data\081524\081562.D	Calibration	8	x	602603	40.0000	0.5064	

# Calibration Report

Batch Path	D:\GC-19\Data\081524\QuantResults\voc s ical.batch.bin		
Analysis Time	8/19/2024 12:33 PM	Analyst Name	FA\GC19
Report Time	8/19/2024 12:34:02 PM	Reporter Name	FA\GC19
Last Calib Update	8/19/2024 12:17 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

**Trichlorofluoromethane %RSE = 9.4**

Trichlorofluoromethane - 8 Levels, 6 Levels Used, 8 Points, 6 Points Used, 0 QCs



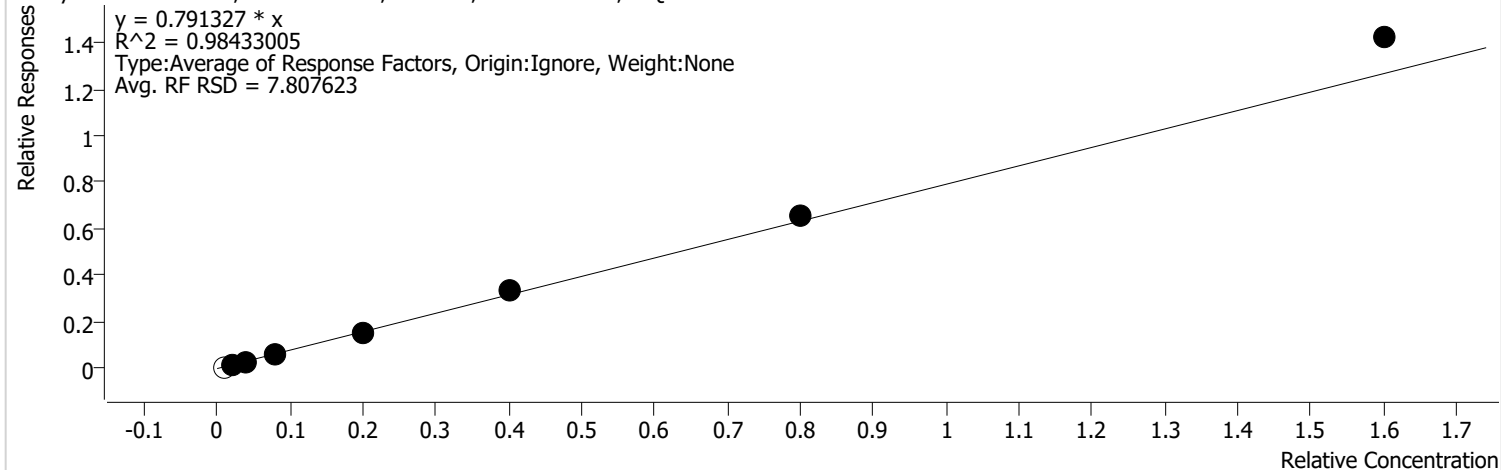
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\081524\081555.D	Calibration	1		19392	0.2000	3.5766	
D:\GC-19\Data\081524\081556.D	Calibration	2	x	19781	0.5000	1.3900	
D:\GC-19\Data\081524\081557.D	Calibration	3	x	36821	1.0000	1.2885	
D:\GC-19\Data\081524\081558.D	Calibration	4	x	65595	2.0000	1.1546	
D:\GC-19\Data\081524\081559.D	Calibration	5	x	147670	5.0000	1.0390	
D:\GC-19\Data\081524\081560.D	Calibration	6	x	407891	10.0000	1.4296	
D:\GC-19\Data\081524\081561.D	Calibration	7	x	927052	20.0000	1.5299	
D:\GC-19\Data\081524\081562.D	Calibration	8		1754260	40.0000	1.4743	

# Calibration Report

Batch Path	D:\GC-19\Data\081524\QuantResults\voc s ical.batch.bin		
Analysis Time	8/19/2024 12:33 PM	Analyst Name	FA\GC19
Report Time	8/19/2024 12:34:02 PM	Reporter Name	FA\GC19
Last Calib Update	8/19/2024 12:17 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

**Diethyl ether %RSE = 7.8**

Diethyl ether - 8 Levels, 7 Levels Used, 8 Points, 7 Points Used, 0 QCs

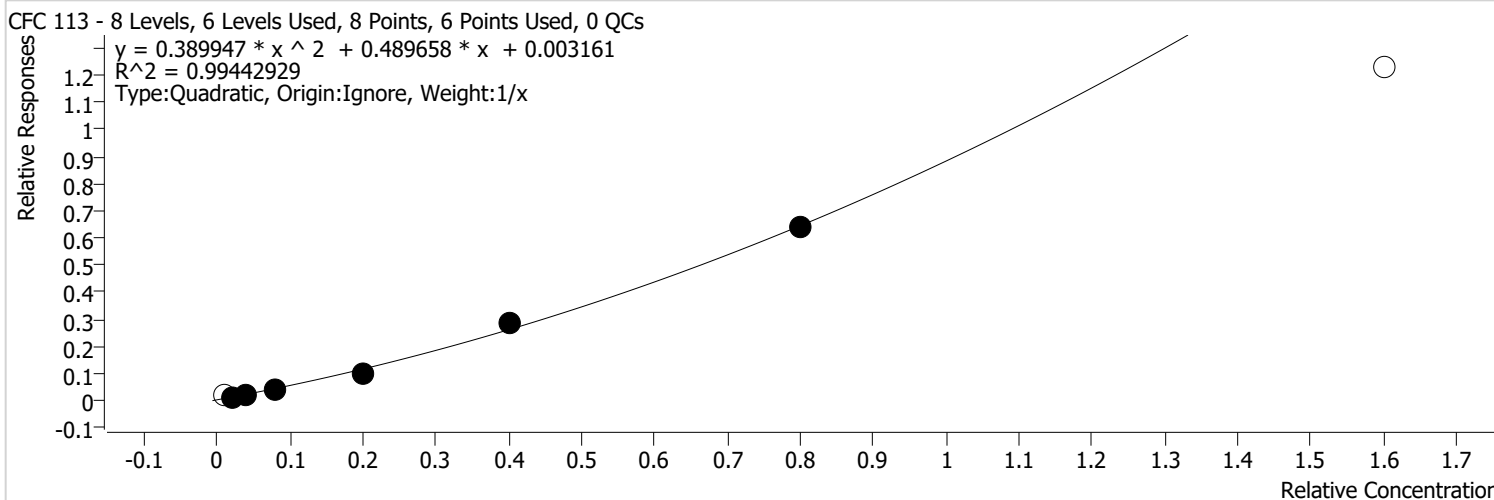


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\081524\081555.D	Calibration	1		5235	0.2000	0.9654	
D:\GC-19\Data\081524\081556.D	Calibration	2	x	11305	0.5000	0.7944	
D:\GC-19\Data\081524\081557.D	Calibration	3	x	21399	1.0000	0.7488	
D:\GC-19\Data\081524\081558.D	Calibration	4	x	40156	2.0000	0.7068	
D:\GC-19\Data\081524\081559.D	Calibration	5	x	106314	5.0000	0.7480	
D:\GC-19\Data\081524\081560.D	Calibration	6	x	239174	10.0000	0.8383	
D:\GC-19\Data\081524\081561.D	Calibration	7	x	494026	20.0000	0.8153	
D:\GC-19\Data\081524\081562.D	Calibration	8	x	1056245	40.0000	0.8877	

# Calibration Report

Batch Path	D:\GC-19\Data\081524\QuantResults\vo c s ical.batch.bin		
Analysis Time	8/19/2024 12:33 PM	Analyst Name	FA\GC19
Report Time	8/19/2024 12:34:02 PM	Reporter Name	FA\GC19
Last Calib Update	8/19/2024 12:17 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

**CFC 113 %RSE = 12.0**

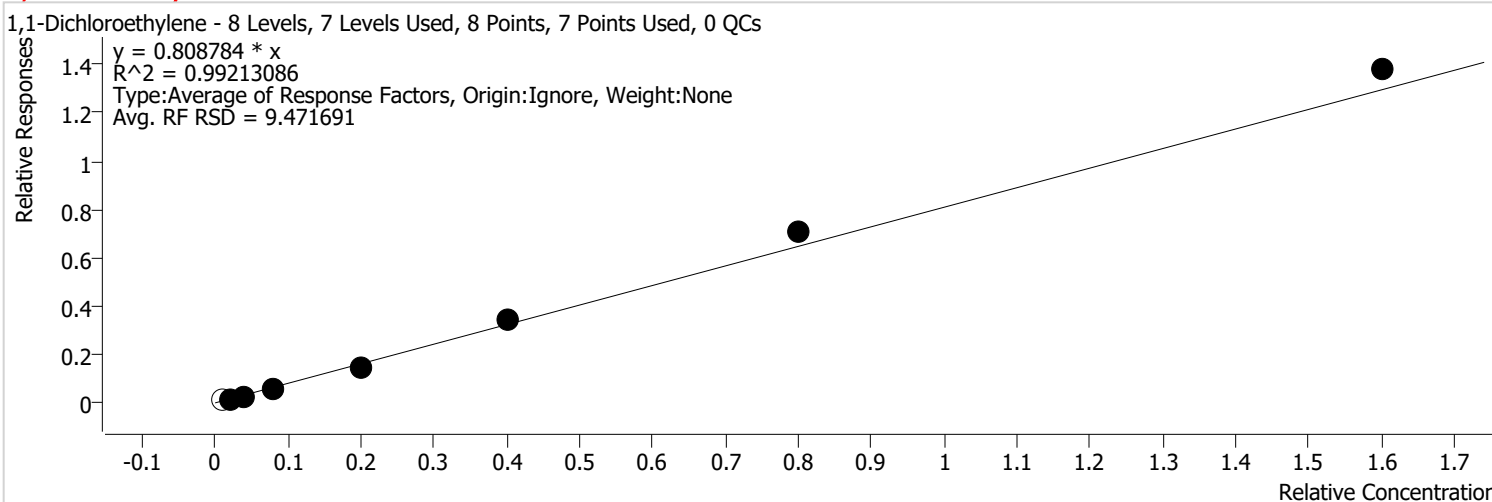


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\081524\081555.D	Calibration	1		11140	0.2000	2.0546	
D:\GC-19\Data\081524\081556.D	Calibration	2	x	10178	0.5000	0.7152	
D:\GC-19\Data\081524\081557.D	Calibration	3	x	15999	1.0000	0.5599	
D:\GC-19\Data\081524\081558.D	Calibration	4	x	31813	2.0000	0.5600	
D:\GC-19\Data\081524\081559.D	Calibration	5	x	70000	5.0000	0.4925	
D:\GC-19\Data\081524\081560.D	Calibration	6	x	205632	10.0000	0.7207	
D:\GC-19\Data\081524\081561.D	Calibration	7	x	481412	20.0000	0.7945	
D:\GC-19\Data\081524\081562.D	Calibration	8		912243	40.0000	0.7667	

# Calibration Report

Batch Path	D:\GC-19\Data\081524\QuantResults\voc s ical.batch.bin		
Analysis Time	8/19/2024 12:33 PM	Analyst Name	FA\GC19
Report Time	8/19/2024 12:34:02 PM	Reporter Name	FA\GC19
Last Calib Update	8/19/2024 12:17 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

**1,1-Dichloroethylene %RSE = 9.5**



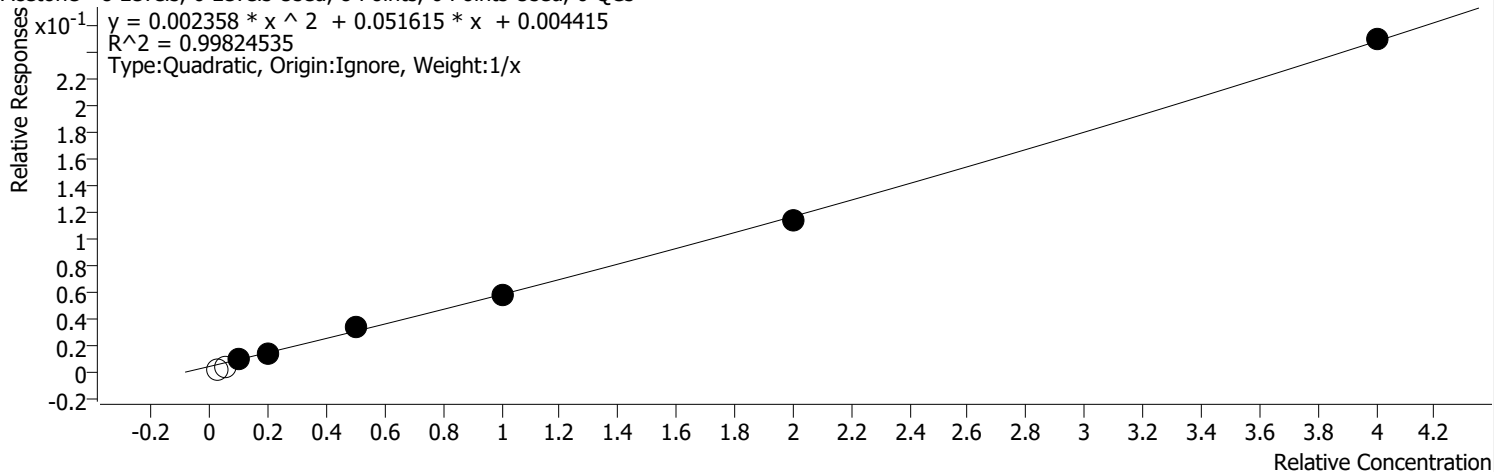
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\081524\081555.D	Calibration	1		11501	0.2000	2.1211	
D:\GC-19\Data\081524\081556.D	Calibration	2	x	12290	0.5000	0.8636	
D:\GC-19\Data\081524\081557.D	Calibration	3	x	21011	1.0000	0.7352	
D:\GC-19\Data\081524\081558.D	Calibration	4	x	41883	2.0000	0.7372	
D:\GC-19\Data\081524\081559.D	Calibration	5	x	101125	5.0000	0.7115	
D:\GC-19\Data\081524\081560.D	Calibration	6	x	246520	10.0000	0.8640	
D:\GC-19\Data\081524\081561.D	Calibration	7	x	538754	20.0000	0.8891	
D:\GC-19\Data\081524\081562.D	Calibration	8	x	1024193	40.0000	0.8608	

# Calibration Report

Batch Path	D:\GC-19\Data\081524\QuantResults\voc s ical.batch.bin		
Analysis Time	8/19/2024 12:33 PM	Analyst Name	FA\GC19
Report Time	8/19/2024 12:34:02 PM	Reporter Name	FA\GC19
Last Calib Update	8/19/2024 12:17 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

**Acetone %RSE = 11.2**

Acetone - 8 Levels, 6 Levels Used, 8 Points, 6 Points Used, 0 QCs



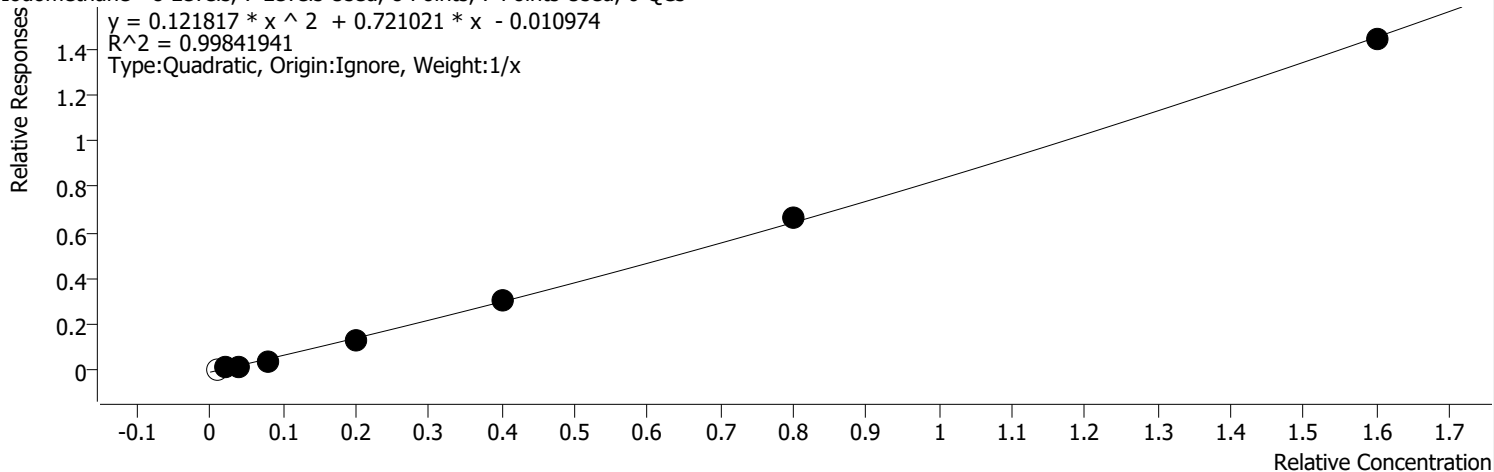
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\081524\081555.D	Calibration	1		1728	0.5000	0.1275	
D:\GC-19\Data\081524\081556.D	Calibration	2		3078	1.2500	0.0865	
D:\GC-19\Data\081524\081557.D	Calibration	3	x	7059	2.5000	0.0988	
D:\GC-19\Data\081524\081558.D	Calibration	4	x	9434	5.0000	0.0664	
D:\GC-19\Data\081524\081559.D	Calibration	5	x	24044	12.5000	0.0677	
D:\GC-19\Data\081524\081560.D	Calibration	6	x	41750	25.0000	0.0585	
D:\GC-19\Data\081524\081561.D	Calibration	7	x	86321	50.0000	0.0570	
D:\GC-19\Data\081524\081562.D	Calibration	8	x	185781	100.0000	0.0625	

# Calibration Report

Batch Path	D:\GC-19\Data\081524\QuantResults\voc s ical.batch.bin		
Analysis Time	8/19/2024 12:33 PM	Analyst Name	FA\GC19
Report Time	8/19/2024 12:34:02 PM	Reporter Name	FA\GC19
Last Calib Update	8/19/2024 12:17 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

**Iodomethane %RSE = 14.9**

Iodomethane - 8 Levels, 7 Levels Used, 8 Points, 7 Points Used, 0 QCs



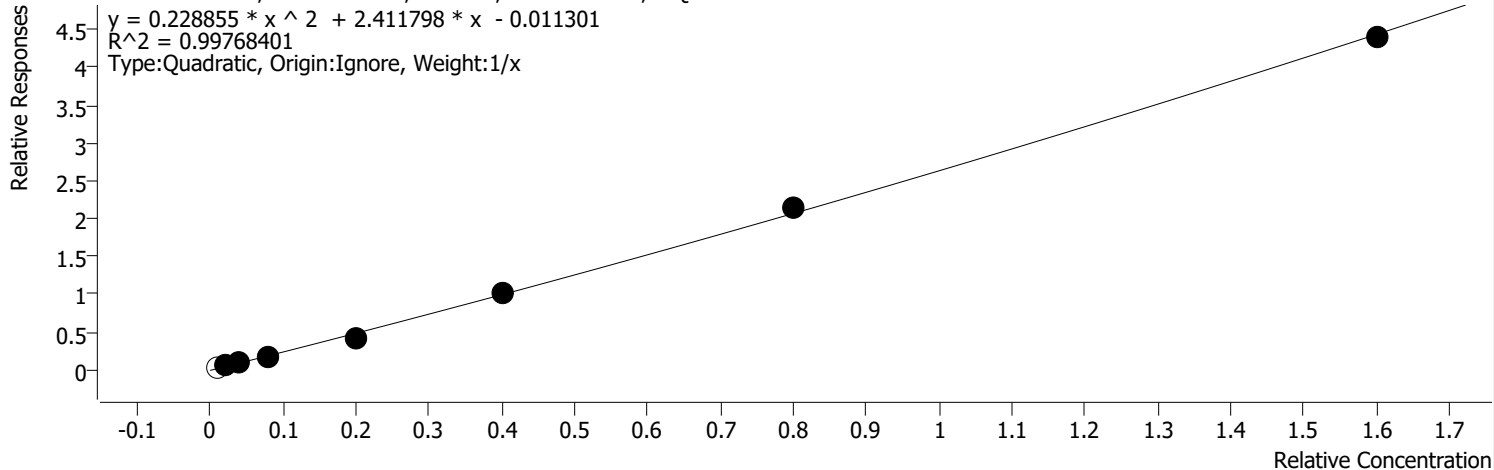
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\081524\081555.D	Calibration	1		2615	0.2000	0.4824	
D:\GC-19\Data\081524\081556.D	Calibration	2	x	4962	0.5000	0.3487	
D:\GC-19\Data\081524\081557.D	Calibration	3	x	11391	1.0000	0.3986	
D:\GC-19\Data\081524\081558.D	Calibration	4	x	28097	2.0000	0.4945	
D:\GC-19\Data\081524\081559.D	Calibration	5	x	89127	5.0000	0.6271	
D:\GC-19\Data\081524\081560.D	Calibration	6	x	217770	10.0000	0.7633	
D:\GC-19\Data\081524\081561.D	Calibration	7	x	504255	20.0000	0.8322	
D:\GC-19\Data\081524\081562.D	Calibration	8	x	1073437	40.0000	0.9021	

# Calibration Report

Batch Path	D:\GC-19\Data\081524\QuantResults\voc s ical.batch.bin		
Analysis Time	8/19/2024 12:33 PM	Analyst Name	FA\GC19
Report Time	8/19/2024 12:34:02 PM	Reporter Name	FA\GC19
Last Calib Update	8/19/2024 12:17 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

**Carbon disulfide %RSE = 12.2**

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\081524\081555.D	Calibration	1		25016	0.2000	4.6138	
D:\GC-19\Data\081524\081556.D	Calibration	2	x	32297	0.5000	2.2695	
D:\GC-19\Data\081524\081557.D	Calibration	3	x	60607	1.0000	2.1208	
D:\GC-19\Data\081524\081558.D	Calibration	4	x	117162	2.0000	2.0622	
D:\GC-19\Data\081524\081559.D	Calibration	5	x	293489	5.0000	2.0650	
D:\GC-19\Data\081524\081560.D	Calibration	6	x	727494	10.0000	2.5498	
D:\GC-19\Data\081524\081561.D	Calibration	7	x	1633563	20.0000	2.6959	
D:\GC-19\Data\081524\081562.D	Calibration	8	x	3264059	40.0000	2.7432	

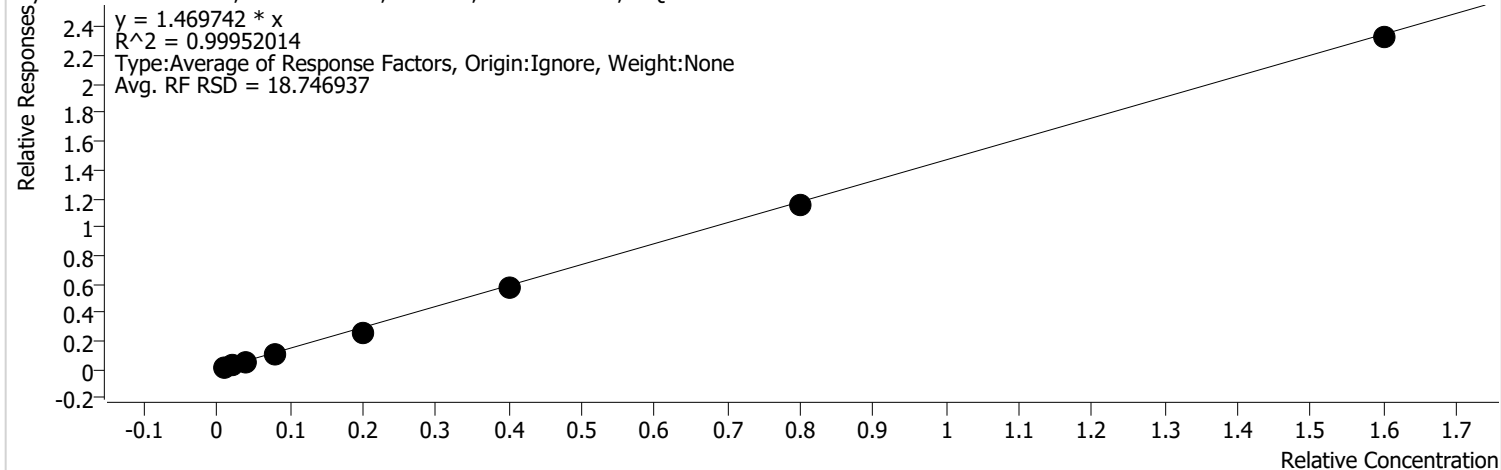


# Calibration Report

Batch Path	D:\GC-19\Data\081524\QuantResults\voc s ical.batch.bin		
Analysis Time	8/19/2024 12:33 PM	Analyst Name	FA\GC19
Report Time	8/19/2024 12:34:02 PM	Reporter Name	FA\GC19
Last Calib Update	8/19/2024 12:17 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

**Allyl Chloride %RSE = 18.7**

Allyl Chloride - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs

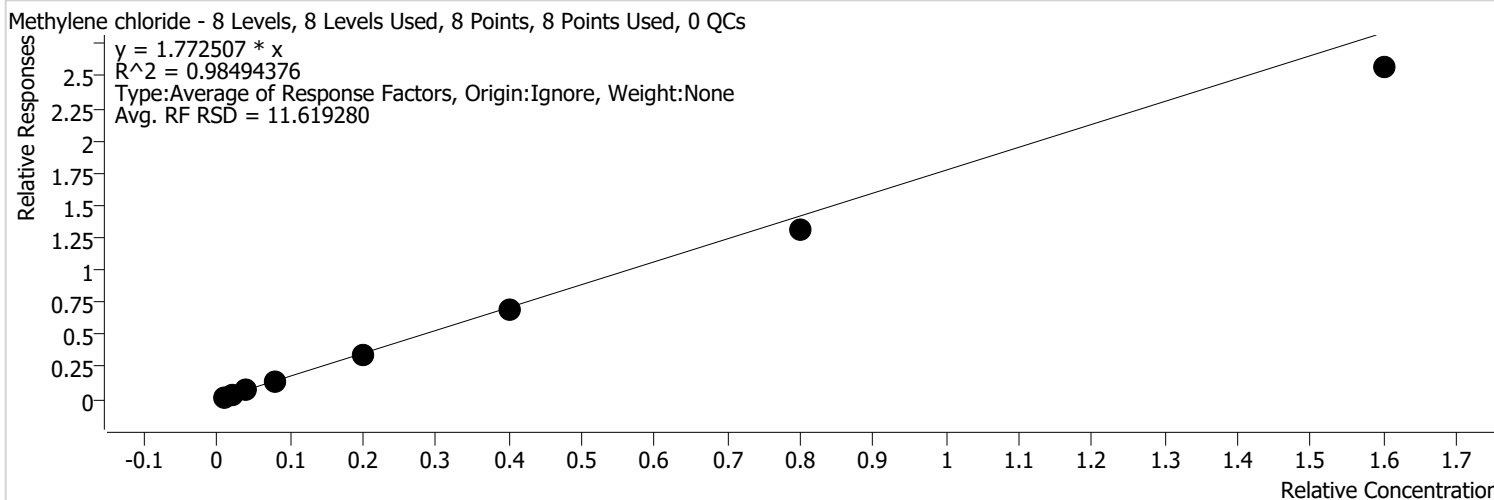


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\081524\081555.D	Calibration	1	x	11534	0.2000	2.1272	
D:\GC-19\Data\081524\081556.D	Calibration	2	x	19749	0.5000	1.3877	
D:\GC-19\Data\081524\081557.D	Calibration	3	x	36403	1.0000	1.2739	
D:\GC-19\Data\081524\081558.D	Calibration	4	x	74403	2.0000	1.3096	
D:\GC-19\Data\081524\081559.D	Calibration	5	x	185337	5.0000	1.3040	
D:\GC-19\Data\081524\081560.D	Calibration	6	x	413346	10.0000	1.4487	
D:\GC-19\Data\081524\081561.D	Calibration	7	x	880029	20.0000	1.4523	
D:\GC-19\Data\081524\081562.D	Calibration	8	x	1730623	40.0000	1.4545	

# Calibration Report

Batch Path	D:\GC-19\Data\081524\QuantResults\voc s ical.batch.bin		
Analysis Time	8/19/2024 12:33 PM	Analyst Name	FA\GC19
Report Time	8/19/2024 12:34:02 PM	Reporter Name	FA\GC19
Last Calib Update	8/19/2024 12:17 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

**Methylene chloride %RSE = 11.6**



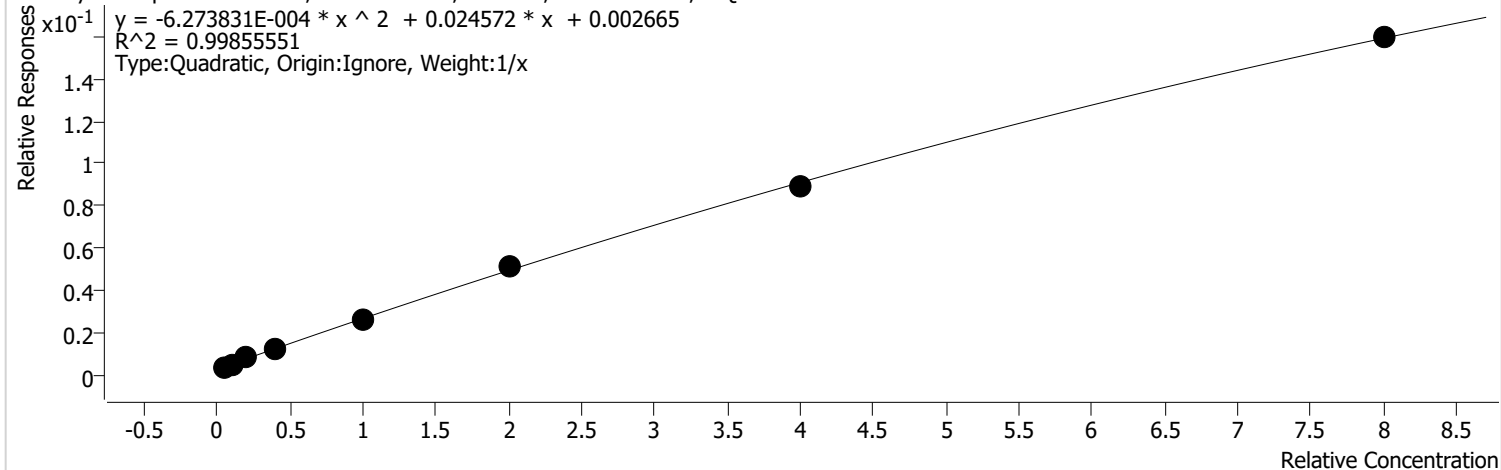
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\081524\081555.D	Calibration	1	x	12265	0.2000	2.2620	
D:\GC-19\Data\081524\081556.D	Calibration	2	x	25444	0.5000	1.7879	
D:\GC-19\Data\081524\081557.D	Calibration	3	x	49873	1.0000	1.7452	
D:\GC-19\Data\081524\081558.D	Calibration	4	x	96844	2.0000	1.7046	
D:\GC-19\Data\081524\081559.D	Calibration	5	x	241463	5.0000	1.6989	
D:\GC-19\Data\081524\081560.D	Calibration	6	x	494244	10.0000	1.7323	
D:\GC-19\Data\081524\081561.D	Calibration	7	x	997314	20.0000	1.6459	
D:\GC-19\Data\081524\081562.D	Calibration	8	x	1907649	40.0000	1.6032	

# Calibration Report

Batch Path	D:\GC-19\Data\081524\QuantResults\vo c s ical.batch.bin		
Analysis Time	8/19/2024 12:33 PM	Analyst Name	FA\GC19
Report Time	8/19/2024 12:34:02 PM	Reporter Name	FA\GC19
Last Calib Update	8/19/2024 12:17 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

**2-Methyl-2-Propanol %RSE = 13.5**

2-Methyl-2-Propanol - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs



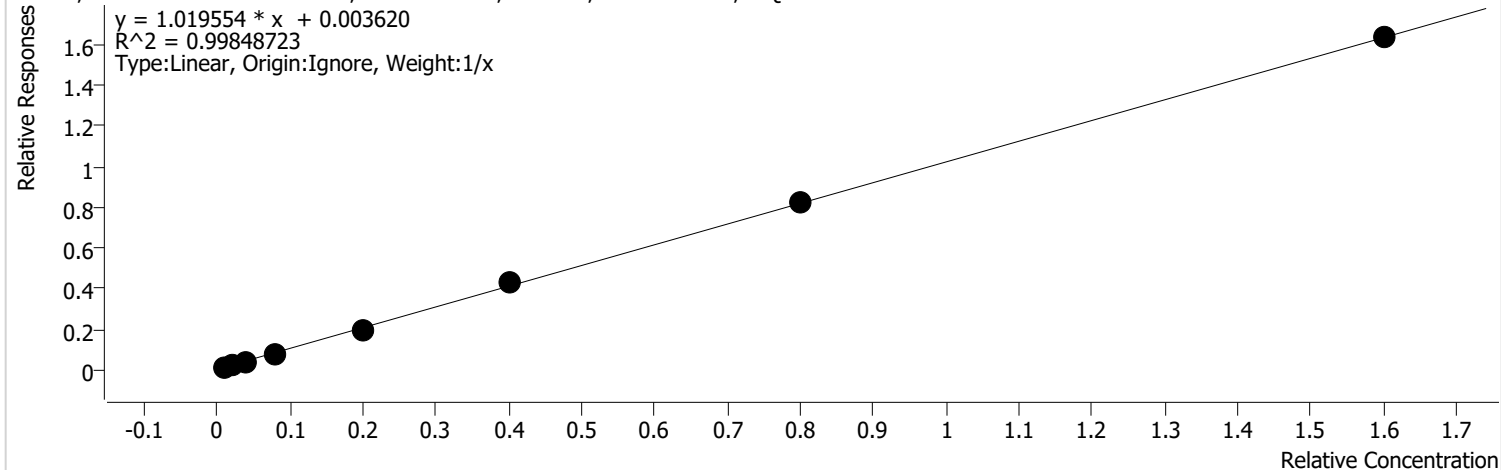
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\081524\081555.D	Calibration	1	x	2569	1.0000	0.0947	
D:\GC-19\Data\081524\081556.D	Calibration	2	x	3247	2.5000	0.0456	
D:\GC-19\Data\081524\081557.D	Calibration	3	x	5796	5.0000	0.0406	
D:\GC-19\Data\081524\081558.D	Calibration	4	x	8626	10.0000	0.0304	
D:\GC-19\Data\081524\081559.D	Calibration	5	x	18182	25.0000	0.0256	
D:\GC-19\Data\081524\081560.D	Calibration	6	x	36725	50.0000	0.0257	
D:\GC-19\Data\081524\081561.D	Calibration	7	x	67877	100.0000	0.0224	
D:\GC-19\Data\081524\081562.D	Calibration	8	x	118487	200.0000	0.0199	

# Calibration Report

Batch Path	D:\GC-19\Data\081524\QuantResults\voc s ical.batch.bin		
Analysis Time	8/19/2024 12:33 PM	Analyst Name	FA\GC19
Report Time	8/19/2024 12:34:02 PM	Reporter Name	FA\GC19
Last Calib Update	8/19/2024 12:17 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

**trans-1,2-Dichloroethene %RSE = 18.4**

trans-1,2-Dichloroethene - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs

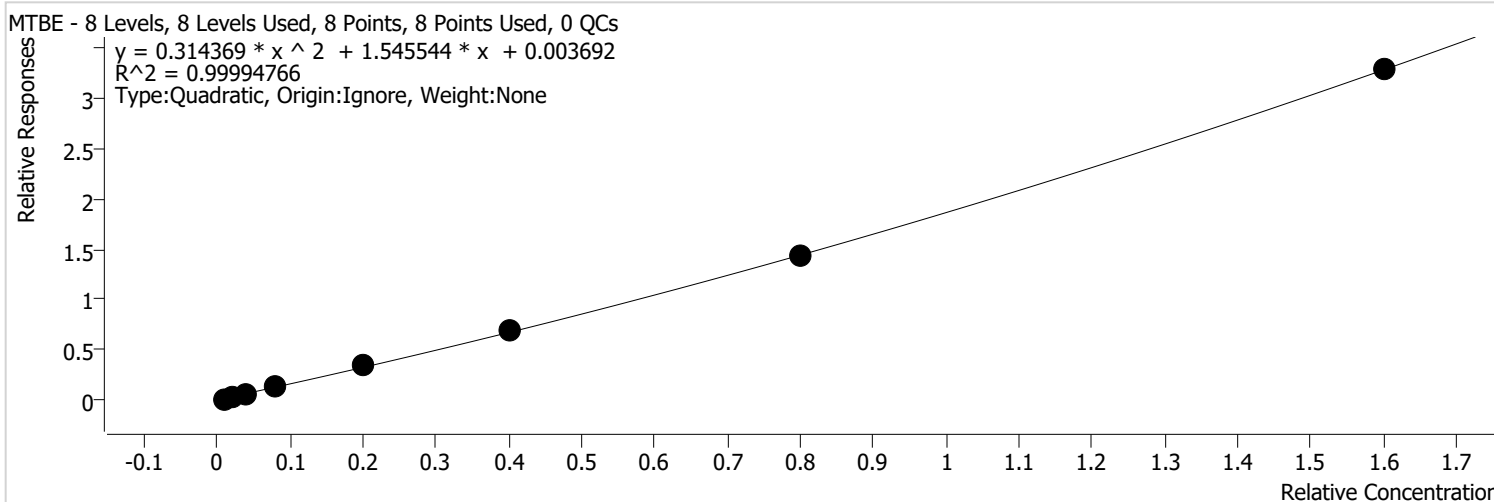


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\081524\081555.D	Calibration	1	x	10100	0.2000	1.8628	
D:\GC-19\Data\081524\081556.D	Calibration	2	x	14688	0.5000	1.0321	
D:\GC-19\Data\081524\081557.D	Calibration	3	x	28641	1.0000	1.0022	
D:\GC-19\Data\081524\081558.D	Calibration	4	x	53608	2.0000	0.9436	
D:\GC-19\Data\081524\081559.D	Calibration	5	x	141475	5.0000	0.9954	
D:\GC-19\Data\081524\081560.D	Calibration	6	x	305020	10.0000	1.0691	
D:\GC-19\Data\081524\081561.D	Calibration	7	x	625897	20.0000	1.0329	
D:\GC-19\Data\081524\081562.D	Calibration	8	x	1215408	40.0000	1.0215	

# Calibration Report

Batch Path	D:\GC-19\Data\081524\QuantResults\voc s ical.batch.bin		
Analysis Time	8/19/2024 12:33 PM	Analyst Name	FA\GC19
Report Time	8/19/2024 12:34:02 PM	Reporter Name	FA\GC19
Last Calib Update	8/19/2024 12:17 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

**MTBE %RSE = 12.1**

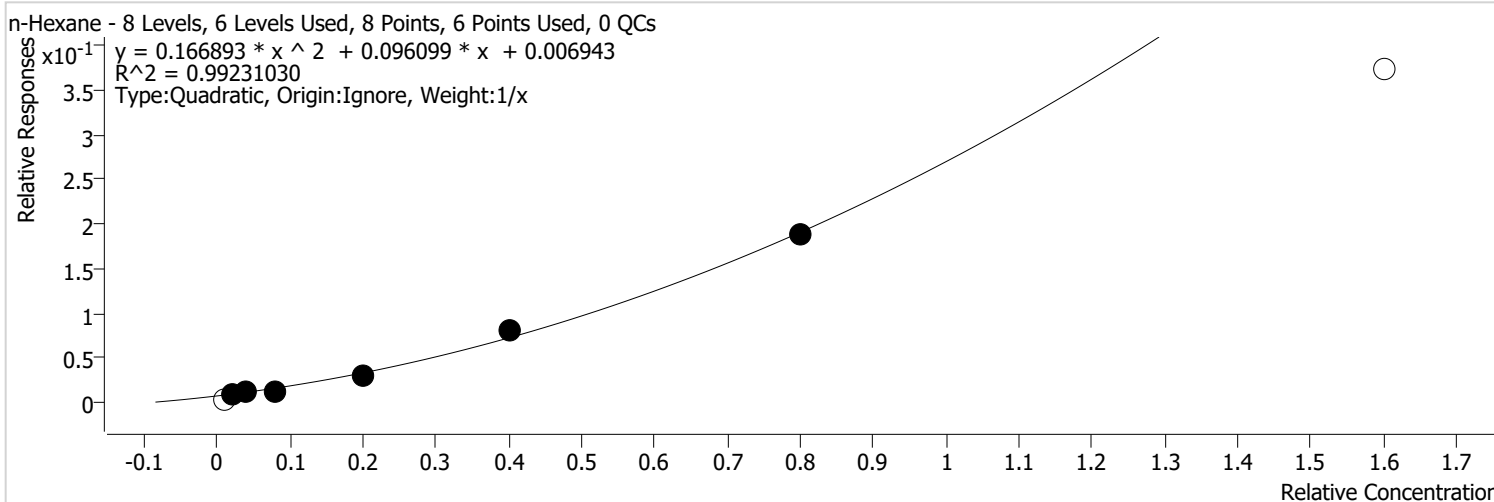


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\081524\081555.D	Calibration	1	x	9196	0.2000	1.6961	
D:\GC-19\Data\081524\081556.D	Calibration	2	x	26147	0.5000	1.8373	
D:\GC-19\Data\081524\081557.D	Calibration	3	x	39843	1.0000	1.3942	
D:\GC-19\Data\081524\081558.D	Calibration	4	x	90720	2.0000	1.5968	
D:\GC-19\Data\081524\081559.D	Calibration	5	x	239899	5.0000	1.6879	
D:\GC-19\Data\081524\081560.D	Calibration	6	x	485912	10.0000	1.7031	
D:\GC-19\Data\081524\081561.D	Calibration	7	x	1083481	20.0000	1.7881	
D:\GC-19\Data\081524\081562.D	Calibration	8	x	2441695	40.0000	2.0521	

# Calibration Report

Batch Path	D:\GC-19\Data\081524\QuantResults\vo c s ical.batch.bin		
Analysis Time	8/19/2024 12:33 PM	Analyst Name	FA\GC19
Report Time	8/19/2024 12:34:02 PM	Reporter Name	FA\GC19
Last Calib Update	8/19/2024 12:17 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

**n-Hexane %RSE = 22.3**

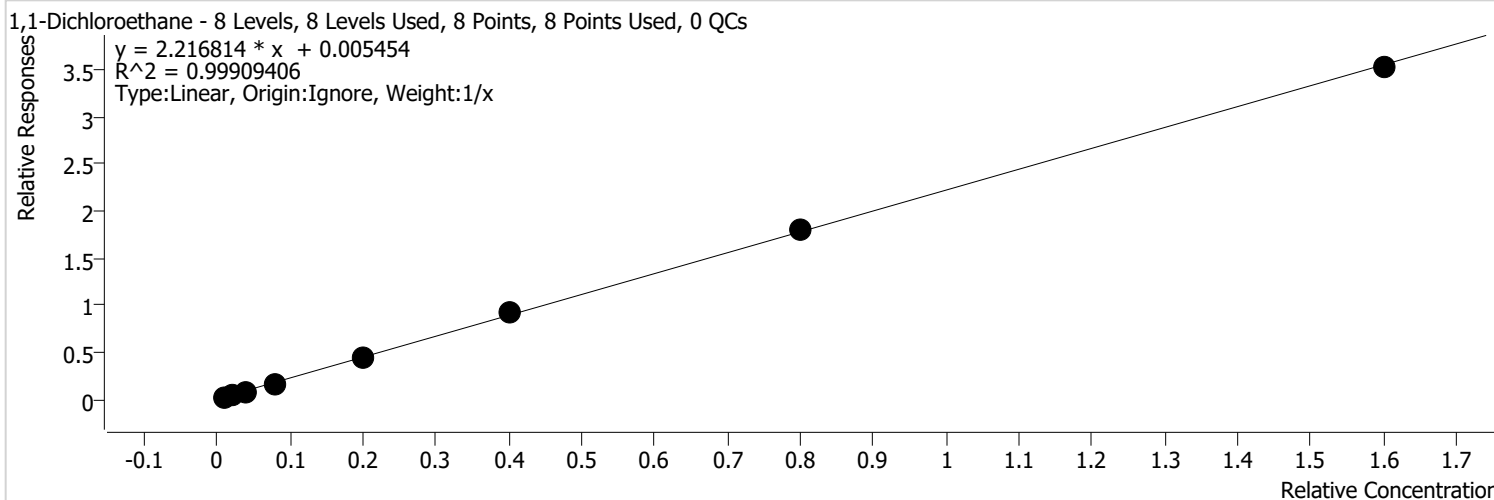


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\081524\081555.D	Calibration	1		2539	0.2000	0.4682	
D:\GC-19\Data\081524\081556.D	Calibration	2	x	6638	0.5000	0.4665	
D:\GC-19\Data\081524\081557.D	Calibration	3	x	8298	1.0000	0.2904	
D:\GC-19\Data\081524\081558.D	Calibration	4	x	9363	2.0000	0.1648	
D:\GC-19\Data\081524\081559.D	Calibration	5	x	20392	5.0000	0.1435	
D:\GC-19\Data\081524\081560.D	Calibration	6	x	57765	10.0000	0.2025	
D:\GC-19\Data\081524\081561.D	Calibration	7	x	141967	20.0000	0.2343	
D:\GC-19\Data\081524\081562.D	Calibration	8		277482	40.0000	0.2332	

# Calibration Report

Batch Path	D:\GC-19\Data\081524\QuantResults\voc s ical.batch.bin		
Analysis Time	8/19/2024 12:33 PM	Analyst Name	FA\GC19
Report Time	8/19/2024 12:34:02 PM	Reporter Name	FA\GC19
Last Calib Update	8/19/2024 12:17 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

**1,1-Dichloroethane %RSE = 12.9**



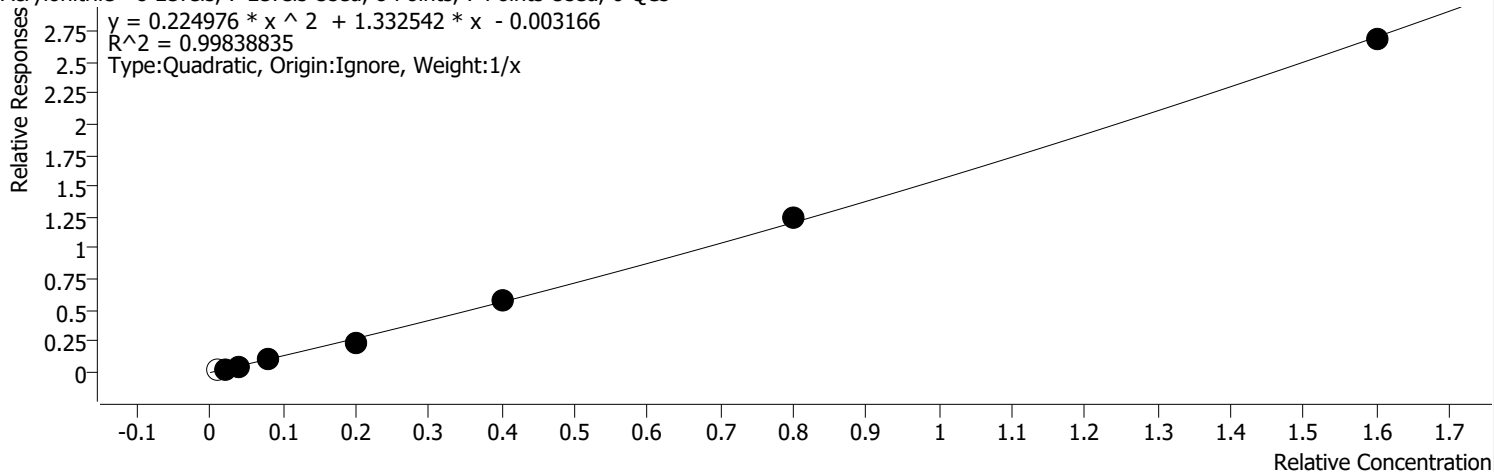
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\081524\081555.D	Calibration	1	x	18745	0.2000	3.4573	
D:\GC-19\Data\081524\081556.D	Calibration	2	x	30379	0.5000	2.1347	
D:\GC-19\Data\081524\081557.D	Calibration	3	x	62696	1.0000	2.1939	
D:\GC-19\Data\081524\081558.D	Calibration	4	x	121975	2.0000	2.1469	
D:\GC-19\Data\081524\081559.D	Calibration	5	x	318207	5.0000	2.2389	
D:\GC-19\Data\081524\081560.D	Calibration	6	x	666474	10.0000	2.3359	
D:\GC-19\Data\081524\081561.D	Calibration	7	x	1355015	20.0000	2.2362	
D:\GC-19\Data\081524\081562.D	Calibration	8	x	2618592	40.0000	2.2007	

# Calibration Report

Batch Path	D:\GC-19\Data\081524\QuantResults\voc s ical.batch.bin		
Analysis Time	8/19/2024 12:33 PM	Analyst Name	FA\GC19
Report Time	8/19/2024 12:34:02 PM	Reporter Name	FA\GC19
Last Calib Update	8/19/2024 12:17 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

**Acrylonitrile %RSE = 14.3**

Acrylonitrile - 8 Levels, 7 Levels Used, 8 Points, 7 Points Used, 0 QCs



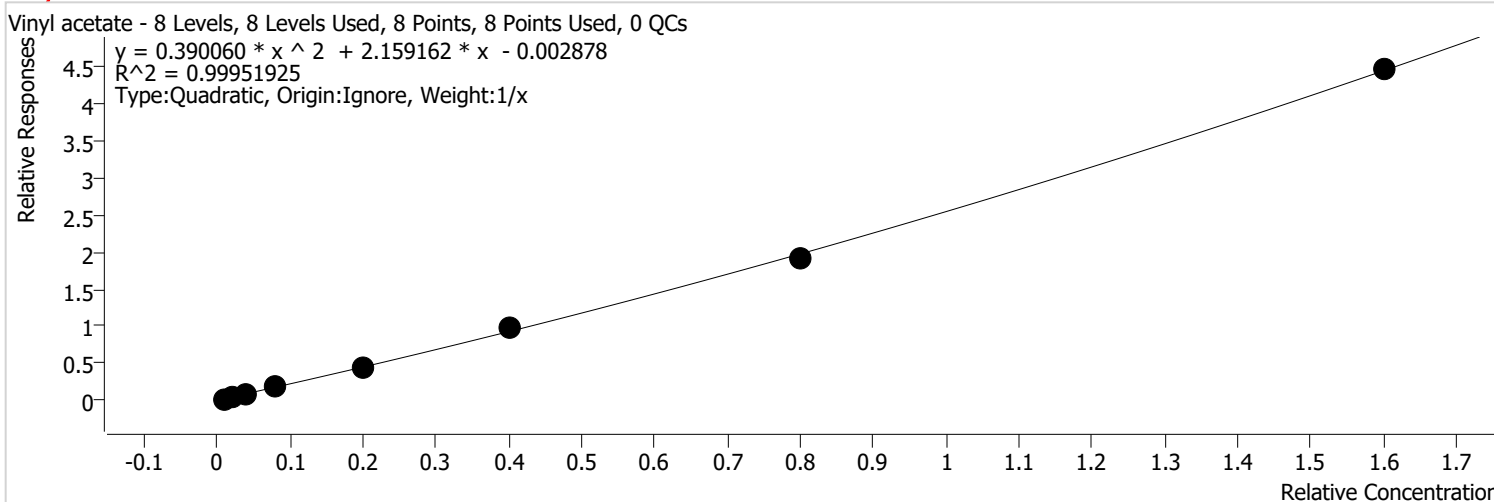
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\081524\081555.D	Calibration	1		18599	0.2000	3.4302	
D:\GC-19\Data\081524\081556.D	Calibration	2	x	21213	0.5000	1.4906	
D:\GC-19\Data\081524\081557.D	Calibration	3	x	32050	1.0000	1.1215	
D:\GC-19\Data\081524\081558.D	Calibration	4	x	68695	2.0000	1.2091	
D:\GC-19\Data\081524\081559.D	Calibration	5	x	173332	5.0000	1.2195	
D:\GC-19\Data\081524\081560.D	Calibration	6	x	411627	10.0000	1.4427	
D:\GC-19\Data\081524\081561.D	Calibration	7	x	949738	20.0000	1.5674	
D:\GC-19\Data\081524\081562.D	Calibration	8	x	1994911	40.0000	1.6766	



# Calibration Report

Batch Path	D:\GC-19\Data\081524\QuantResults\voc s ical.batch.bin		
Analysis Time	8/19/2024 12:33 PM	Analyst Name	FA\GC19
Report Time	8/19/2024 12:34:02 PM	Reporter Name	FA\GC19
Last Calib Update	8/19/2024 12:17 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

**Vinyl acetate %RSE = 6.0**

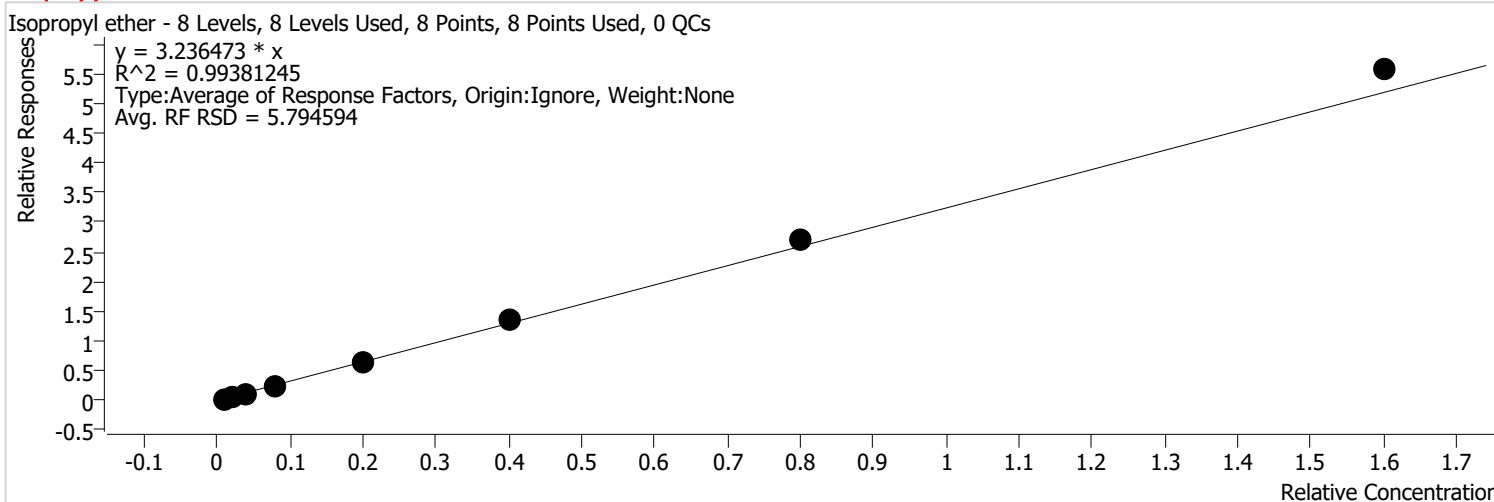


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\081524\081555.D	Calibration	1	x	10360	0.2000	1.9107	
D:\GC-19\Data\081524\081556.D	Calibration	2	x	30120	0.5000	2.1165	
D:\GC-19\Data\081524\081557.D	Calibration	3	x	53441	1.0000	1.8701	
D:\GC-19\Data\081524\081558.D	Calibration	4	x	120233	2.0000	2.1163	
D:\GC-19\Data\081524\081559.D	Calibration	5	x	319190	5.0000	2.2458	
D:\GC-19\Data\081524\081560.D	Calibration	6	x	686242	10.0000	2.4052	
D:\GC-19\Data\081524\081561.D	Calibration	7	x	1458987	20.0000	2.4078	
D:\GC-19\Data\081524\081562.D	Calibration	8	x	3319971	40.0000	2.7902	

# Calibration Report

Batch Path	D:\GC-19\Data\081524\QuantResults\voc s ical.batch.bin		
Analysis Time	8/19/2024 12:33 PM	Analyst Name	FA\GC19
Report Time	8/19/2024 12:34:02 PM	Reporter Name	FA\GC19
Last Calib Update	8/19/2024 12:17 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

**Isopropyl ether %RSE = 5.8**



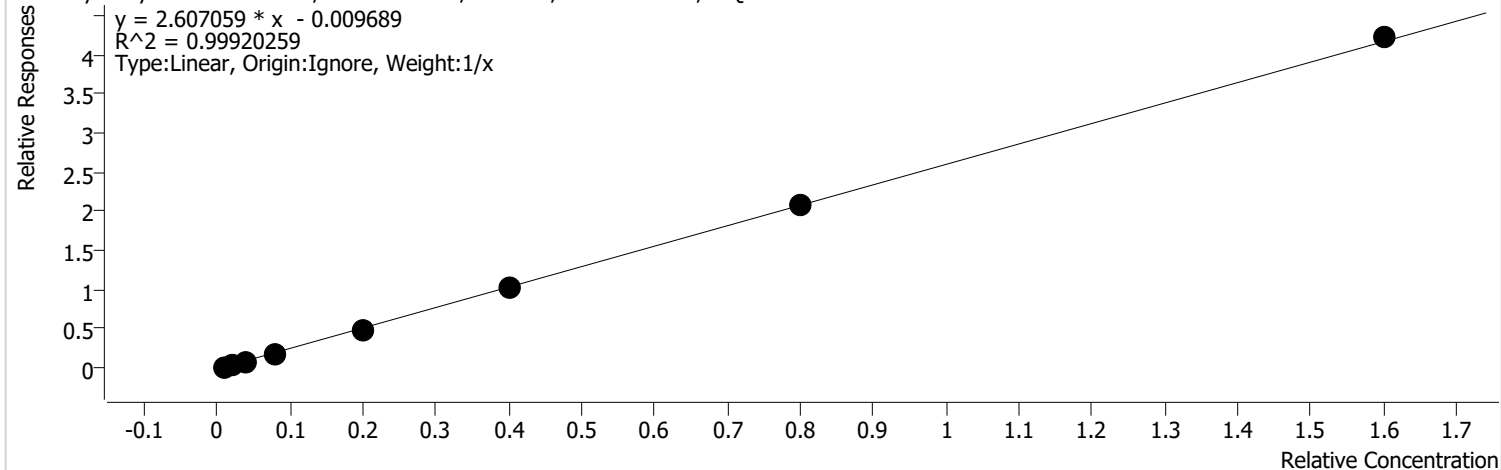
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\081524\081555.D	Calibration	1	x	17932	0.2000	3.3073	
D:\GC-19\Data\081524\081556.D	Calibration	2	x	45540	0.5000	3.2001	
D:\GC-19\Data\081524\081557.D	Calibration	3	x	82131	1.0000	2.8741	
D:\GC-19\Data\081524\081558.D	Calibration	4	x	175871	2.0000	3.0956	
D:\GC-19\Data\081524\081559.D	Calibration	5	x	457634	5.0000	3.2199	
D:\GC-19\Data\081524\081560.D	Calibration	6	x	953149	10.0000	3.3407	
D:\GC-19\Data\081524\081561.D	Calibration	7	x	2046753	20.0000	3.3778	
D:\GC-19\Data\081524\081562.D	Calibration	8	x	4136426	40.0000	3.4764	

# Calibration Report

Batch Path	D:\GC-19\Data\081524\QuantResults\voc s ical.batch.bin		
Analysis Time	8/19/2024 12:33 PM	Analyst Name	FA\GC19
Report Time	8/19/2024 12:34:02 PM	Reporter Name	FA\GC19
Last Calib Update	8/19/2024 12:17 PM	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



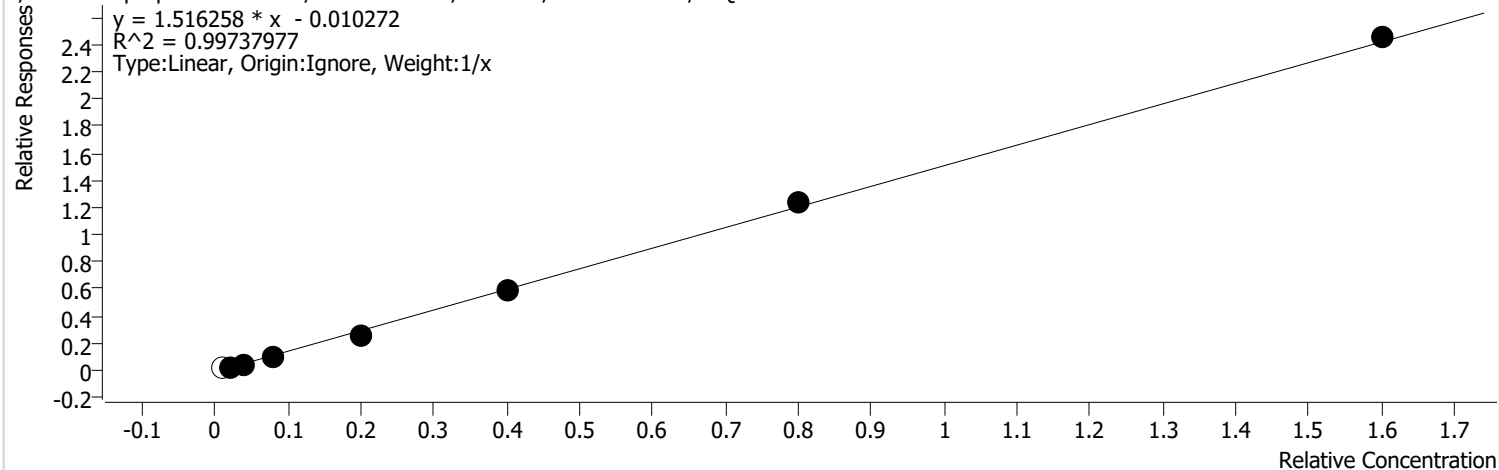
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\081524\081555.D	Calibration	1	x	11333	0.2000	2.0902	
D:\GC-19\Data\081524\081556.D	Calibration	2	x	28491	0.5000	2.0020	
D:\GC-19\Data\081524\081557.D	Calibration	3	x	59321	1.0000	2.0758	
D:\GC-19\Data\081524\081558.D	Calibration	4	x	132124	2.0000	2.3256	
D:\GC-19\Data\081524\081559.D	Calibration	5	x	343805	5.0000	2.4190	
D:\GC-19\Data\081524\081560.D	Calibration	6	x	728541	10.0000	2.5535	
D:\GC-19\Data\081524\081561.D	Calibration	7	x	1580481	20.0000	2.6083	
D:\GC-19\Data\081524\081562.D	Calibration	8	x	3132215	40.0000	2.6324	

# Calibration Report

Batch Path	D:\GC-19\Data\081524\QuantResults\voc s ical.batch.bin		
Analysis Time	8/19/2024 12:33 PM	Analyst Name	FA\GC19
Report Time	8/19/2024 12:34:02 PM	Reporter Name	FA\GC19
Last Calib Update	8/19/2024 12:17 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

**2,2-Dichloropropane %RSE = 13.6**

2,2-Dichloropropane - 8 Levels, 7 Levels Used, 8 Points, 7 Points Used, 0 QCs



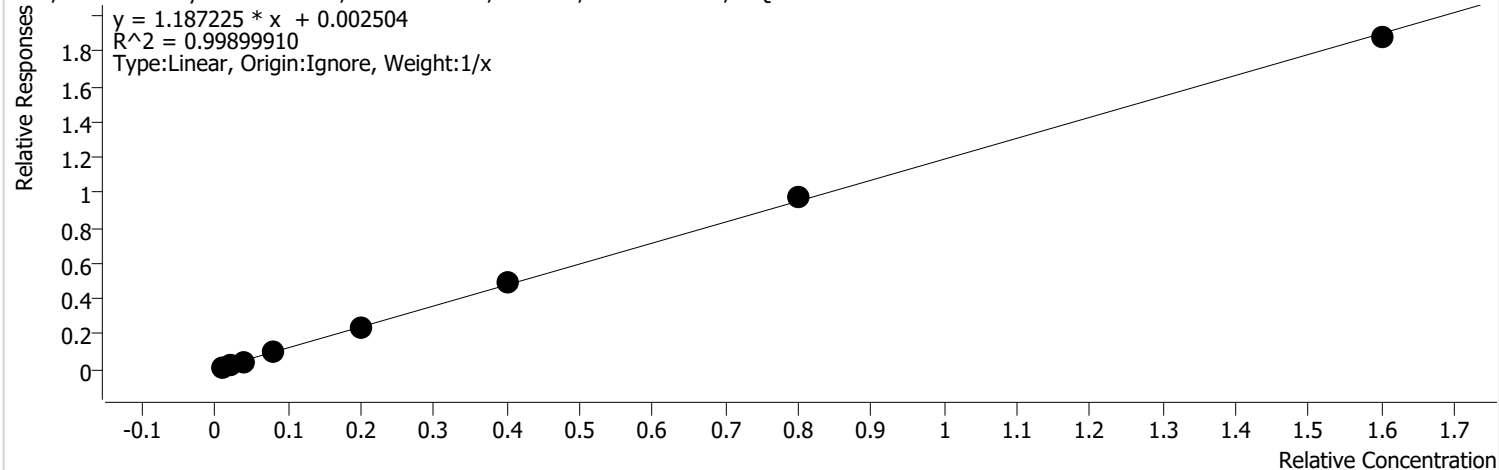
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\081524\081555.D	Calibration	1		18162	0.2000	3.3498	
D:\GC-19\Data\081524\081556.D	Calibration	2	x	19666	0.5000	1.3819	
D:\GC-19\Data\081524\081557.D	Calibration	3	x	33893	1.0000	1.1860	
D:\GC-19\Data\081524\081558.D	Calibration	4	x	72652	2.0000	1.2788	
D:\GC-19\Data\081524\081559.D	Calibration	5	x	177163	5.0000	1.2465	
D:\GC-19\Data\081524\081560.D	Calibration	6	x	414903	10.0000	1.4542	
D:\GC-19\Data\081524\081561.D	Calibration	7	x	934097	20.0000	1.5416	
D:\GC-19\Data\081524\081562.D	Calibration	8	x	1820156	40.0000	1.5297	

# Calibration Report

Batch Path	D:\GC-19\Data\081524\QuantResults\voc s ical.batch.bin		
Analysis Time	8/19/2024 12:33 PM	Analyst Name	FA\GC19
Report Time	8/19/2024 12:34:02 PM	Reporter Name	FA\GC19
Last Calib Update	8/19/2024 12:17 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

**cis-1,2-Dichloroethylene %RSE = 10.8**

cis-1,2-Dichloroethylene - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs



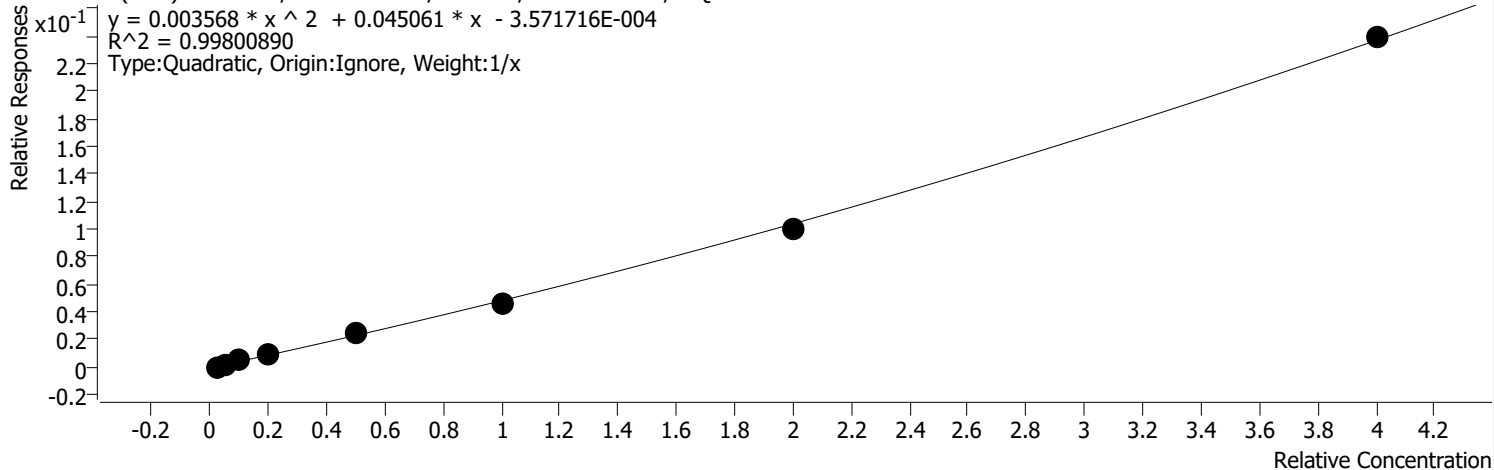
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\081524\081555.D	Calibration	1	x	9448	0.2000	1.7426	
D:\GC-19\Data\081524\081556.D	Calibration	2	x	18030	0.5000	1.2670	
D:\GC-19\Data\081524\081557.D	Calibration	3	x	30672	1.0000	1.0733	
D:\GC-19\Data\081524\081558.D	Calibration	4	x	66316	2.0000	1.1673	
D:\GC-19\Data\081524\081559.D	Calibration	5	x	166276	5.0000	1.1699	
D:\GC-19\Data\081524\081560.D	Calibration	6	x	355026	10.0000	1.2443	
D:\GC-19\Data\081524\081561.D	Calibration	7	x	736352	20.0000	1.2152	
D:\GC-19\Data\081524\081562.D	Calibration	8	x	1396558	40.0000	1.1737	

# Calibration Report

Batch Path	D:\GC-19\Data\081524\QuantResults\voc s ical.batch.bin		
Analysis Time	8/19/2024 12:33 PM	Analyst Name	FA\GC19
Report Time	8/19/2024 12:34:02 PM	Reporter Name	FA\GC19
Last Calib Update	8/19/2024 12:17 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

**2-Butanone (MEK) %RSE = 16.5**

2-Butanone (MEK) - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs

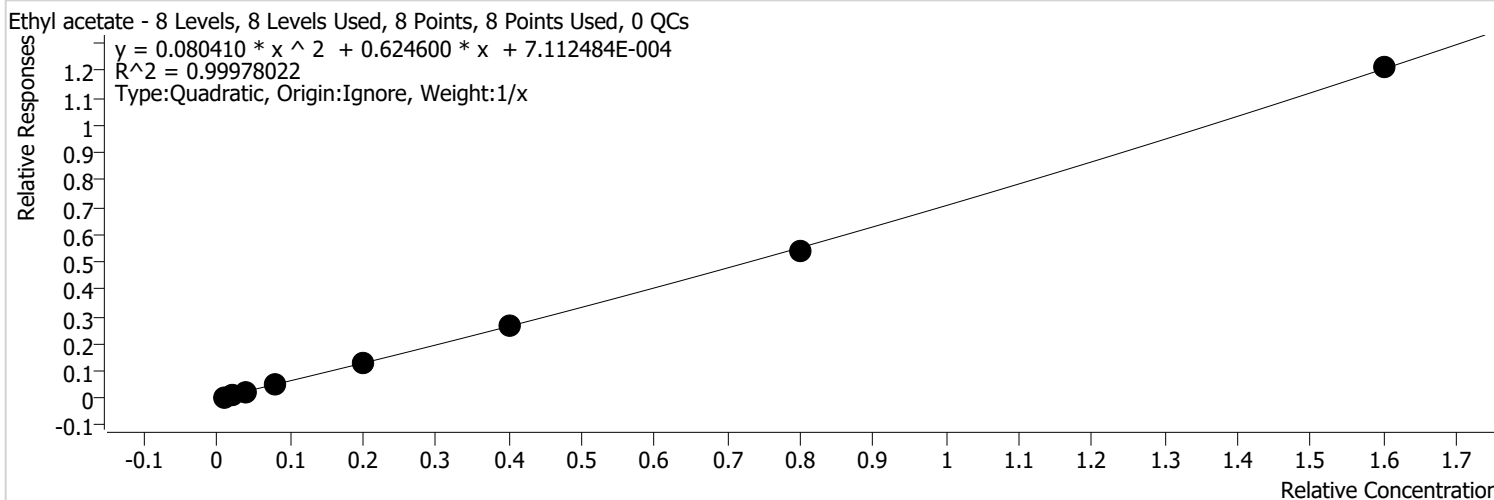


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\081524\081555.D	Calibration	1	x	221	0.5000	0.0163	
D:\GC-19\Data\081524\081556.D	Calibration	2	x	1192	1.2500	0.0335	
D:\GC-19\Data\081524\081557.D	Calibration	3	x	3651	2.5000	0.0511	
D:\GC-19\Data\081524\081558.D	Calibration	4	x	6970	5.0000	0.0491	
D:\GC-19\Data\081524\081559.D	Calibration	5	x	18213	12.5000	0.0513	
D:\GC-19\Data\081524\081560.D	Calibration	6	x	32402	25.0000	0.0454	
D:\GC-19\Data\081524\081561.D	Calibration	7	x	76479	50.0000	0.0505	
D:\GC-19\Data\081524\081562.D	Calibration	8	x	177611	100.0000	0.0597	

# Calibration Report

Batch Path	D:\GC-19\Data\081524\QuantResults\voc s ical.batch.bin		
Analysis Time	8/19/2024 12:33 PM	Analyst Name	FA\GC19
Report Time	8/19/2024 12:34:02 PM	Reporter Name	FA\GC19
Last Calib Update	8/19/2024 12:17 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

**Ethyl acetate %RSE = 2.9**

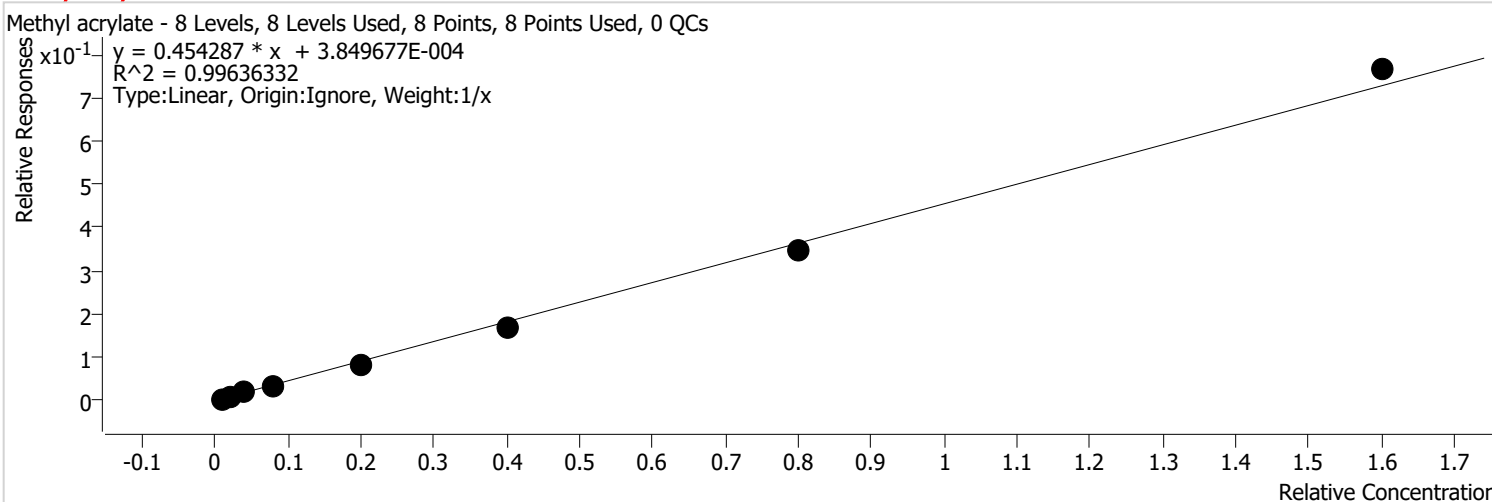


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\081524\081555.D	Calibration	1	x	3845	0.2000	0.7092	
D:\GC-19\Data\081524\081556.D	Calibration	2	x	9242	0.5000	0.6494	
D:\GC-19\Data\081524\081557.D	Calibration	3	x	17887	1.0000	0.6259	
D:\GC-19\Data\081524\081558.D	Calibration	4	x	37744	2.0000	0.6643	
D:\GC-19\Data\081524\081559.D	Calibration	5	x	94129	5.0000	0.6623	
D:\GC-19\Data\081524\081560.D	Calibration	6	x	189593	10.0000	0.6645	
D:\GC-19\Data\081524\081561.D	Calibration	7	x	409275	20.0000	0.6754	
D:\GC-19\Data\081524\081562.D	Calibration	8	x	900247	40.0000	0.7566	

# Calibration Report

Batch Path	D:\GC-19\Data\081524\QuantResults\voc s ical.batch.bin		
Analysis Time	8/19/2024 12:33 PM	Analyst Name	FA\GC19
Report Time	8/19/2024 12:34:02 PM	Reporter Name	FA\GC19
Last Calib Update	8/19/2024 12:17 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

**Methyl acrylate %RSE = 9.7**



Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\081524\081555.D	Calibration	1	x	2920	0.2000	0.5386	
D:\GC-19\Data\081524\081556.D	Calibration	2	x	7804	0.5000	0.5484	
D:\GC-19\Data\081524\081557.D	Calibration	3	x	12752	1.0000	0.4463	
D:\GC-19\Data\081524\081558.D	Calibration	4	x	24998	2.0000	0.4400	
D:\GC-19\Data\081524\081559.D	Calibration	5	x	58287	5.0000	0.4101	
D:\GC-19\Data\081524\081560.D	Calibration	6	x	120163	10.0000	0.4212	
D:\GC-19\Data\081524\081561.D	Calibration	7	x	265101	20.0000	0.4375	
D:\GC-19\Data\081524\081562.D	Calibration	8	x	568432	40.0000	0.4777	

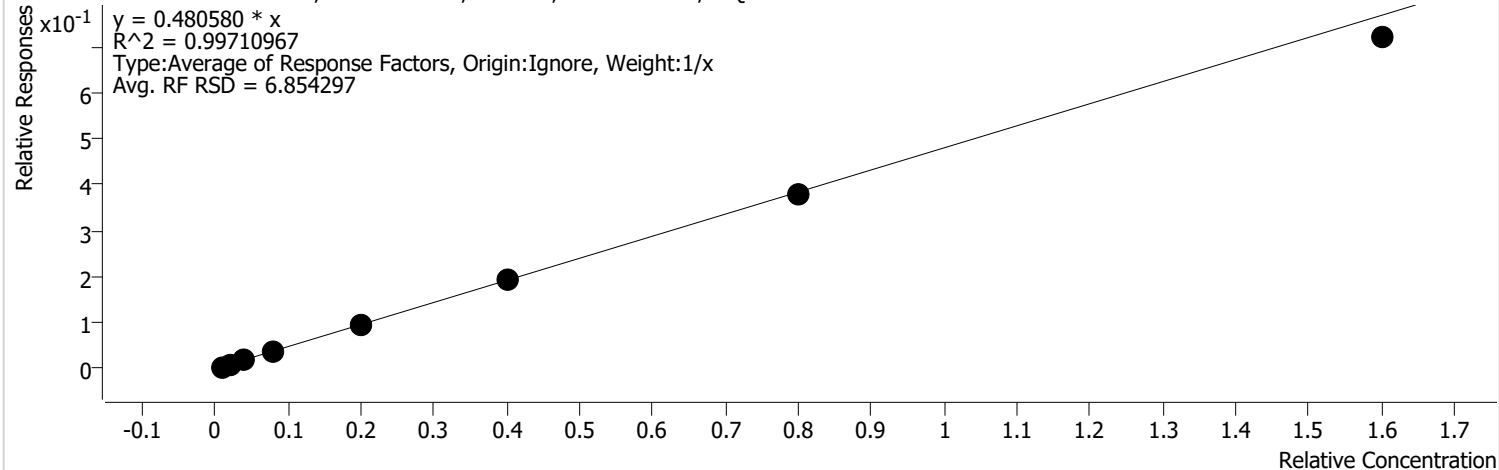


# Calibration Report

Batch Path	D:\GC-19\Data\081524\QuantResults\voc s ical.batch.bin		
Analysis Time	8/19/2024 12:33 PM	Analyst Name	FA\GC19
Report Time	8/19/2024 12:34:02 PM	Reporter Name	FA\GC19
Last Calib Update	8/19/2024 12:17 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

**Bromochloromethane %RSE = 7.6**

Bromochloromethane - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs



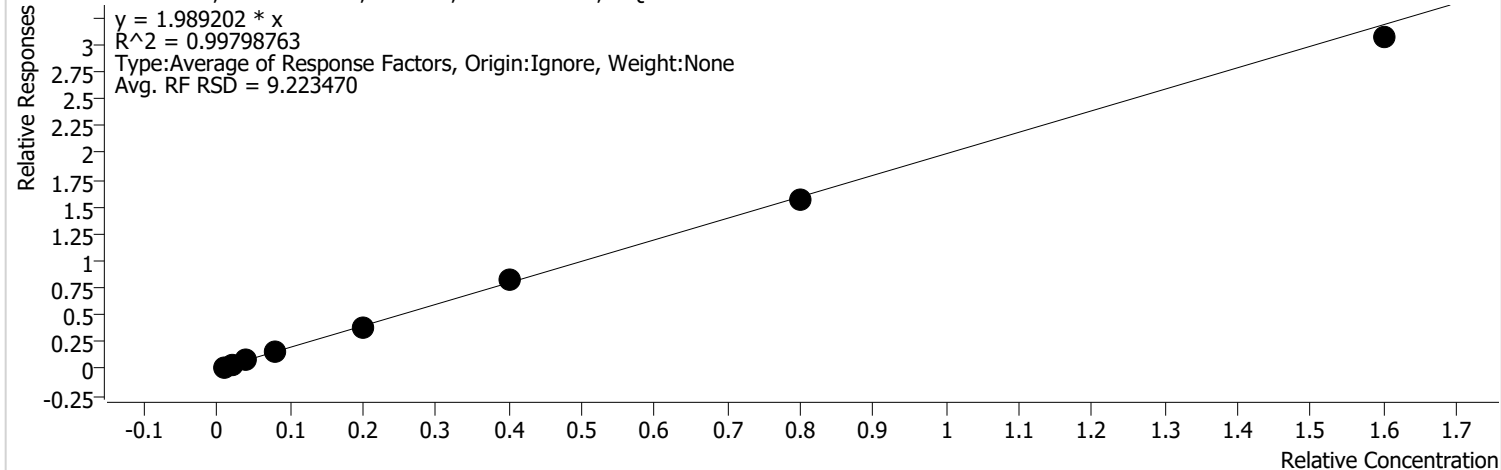
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\081524\081555.D	Calibration	1	x	2812	0.2000	0.5186	
D:\GC-19\Data\081524\081556.D	Calibration	2	x	5800	0.5000	0.4075	
D:\GC-19\Data\081524\081557.D	Calibration	3	x	12789	1.0000	0.4475	
D:\GC-19\Data\081524\081558.D	Calibration	4	x	26563	2.0000	0.4676	
D:\GC-19\Data\081524\081559.D	Calibration	5	x	65783	5.0000	0.4628	
D:\GC-19\Data\081524\081560.D	Calibration	6	x	137542	10.0000	0.4821	
D:\GC-19\Data\081524\081561.D	Calibration	7	x	287185	20.0000	0.4739	
D:\GC-19\Data\081524\081562.D	Calibration	8	x	535583	40.0000	0.4501	

# Calibration Report

Batch Path	D:\GC-19\Data\081524\QuantResults\voc s ical.batch.bin		
Analysis Time	8/19/2024 12:33 PM	Analyst Name	FA\GC19
Report Time	8/19/2024 12:34:02 PM	Reporter Name	FA\GC19
Last Calib Update	8/19/2024 12:17 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

**chloroform %RSE = 9.2**

chloroform - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs

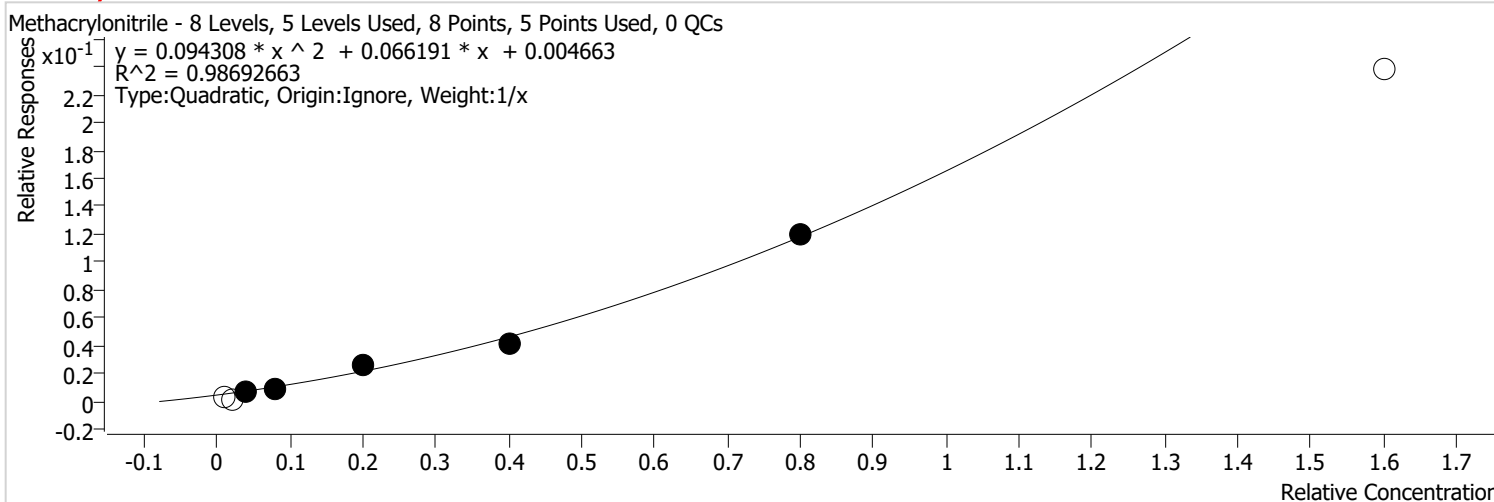


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\081524\081555.D	Calibration	1	x	13113	0.2000	2.4186	
D:\GC-19\Data\081524\081556.D	Calibration	2	x	27786	0.5000	1.9525	
D:\GC-19\Data\081524\081557.D	Calibration	3	x	52427	1.0000	1.8346	
D:\GC-19\Data\081524\081558.D	Calibration	4	x	107145	2.0000	1.8859	
D:\GC-19\Data\081524\081559.D	Calibration	5	x	271921	5.0000	1.9132	
D:\GC-19\Data\081524\081560.D	Calibration	6	x	582327	10.0000	2.0410	
D:\GC-19\Data\081524\081561.D	Calibration	7	x	1183987	20.0000	1.9540	
D:\GC-19\Data\081524\081562.D	Calibration	8	x	2277252	40.0000	1.9139	

# Calibration Report

Batch Path	D:\GC-19\Data\081524\QuantResults\voc s ical.batch.bin		
Analysis Time	8/19/2024 12:33 PM	Analyst Name	FA\GC19
Report Time	8/19/2024 12:34:02 PM	Reporter Name	FA\GC19
Last Calib Update	8/19/2024 12:17 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

**Methacrylonitrile %RSE = 24.1**

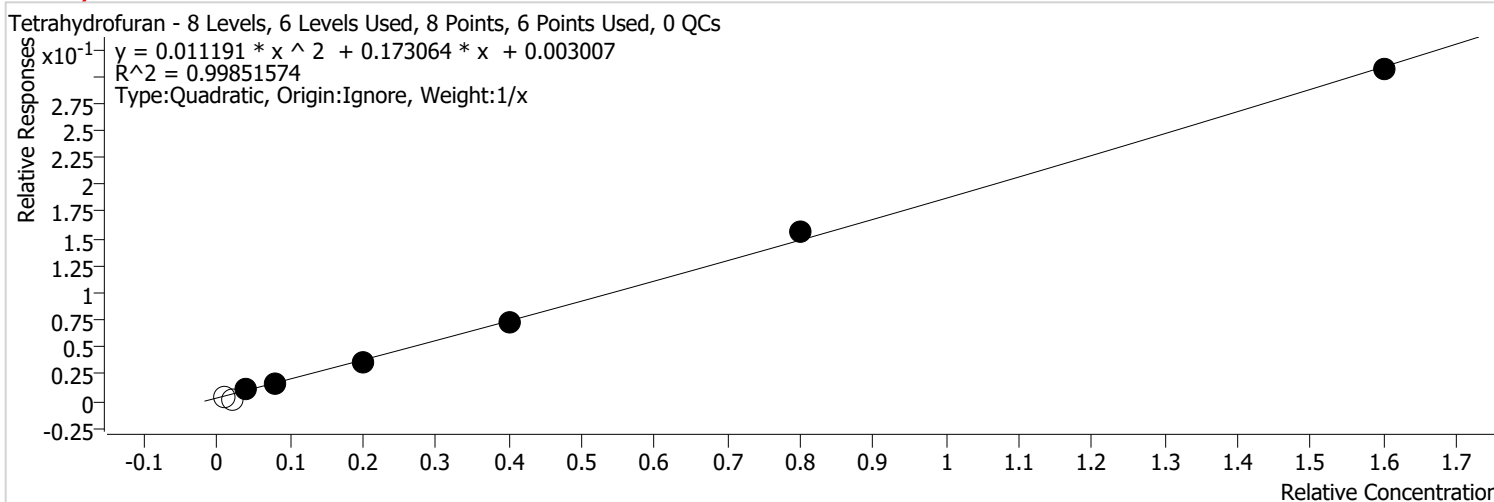


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\081524\081555.D	Calibration	1		1974	0.2000	0.3641	
D:\GC-19\Data\081524\081556.D	Calibration	2		1401	0.5000	0.0985	
D:\GC-19\Data\081524\081557.D	Calibration	3	x	5430	1.0000	0.1900	
D:\GC-19\Data\081524\081558.D	Calibration	4	x	6508	2.0000	0.1146	
D:\GC-19\Data\081524\081559.D	Calibration	5	x	19042	5.0000	0.1340	
D:\GC-19\Data\081524\081560.D	Calibration	6	x	29100	10.0000	0.1020	
D:\GC-19\Data\081524\081561.D	Calibration	7	x	90544	20.0000	0.1494	
D:\GC-19\Data\081524\081562.D	Calibration	8		176809	40.0000	0.1486	

# Calibration Report

Batch Path	D:\GC-19\Data\081524\QuantResults\voc s ical.batch.bin		
Analysis Time	8/19/2024 12:33 PM	Analyst Name	FA\GC19
Report Time	8/19/2024 12:34:02 PM	Reporter Name	FA\GC19
Last Calib Update	8/19/2024 12:17 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

**Tetrahydrofuran %RSE = 6.5**

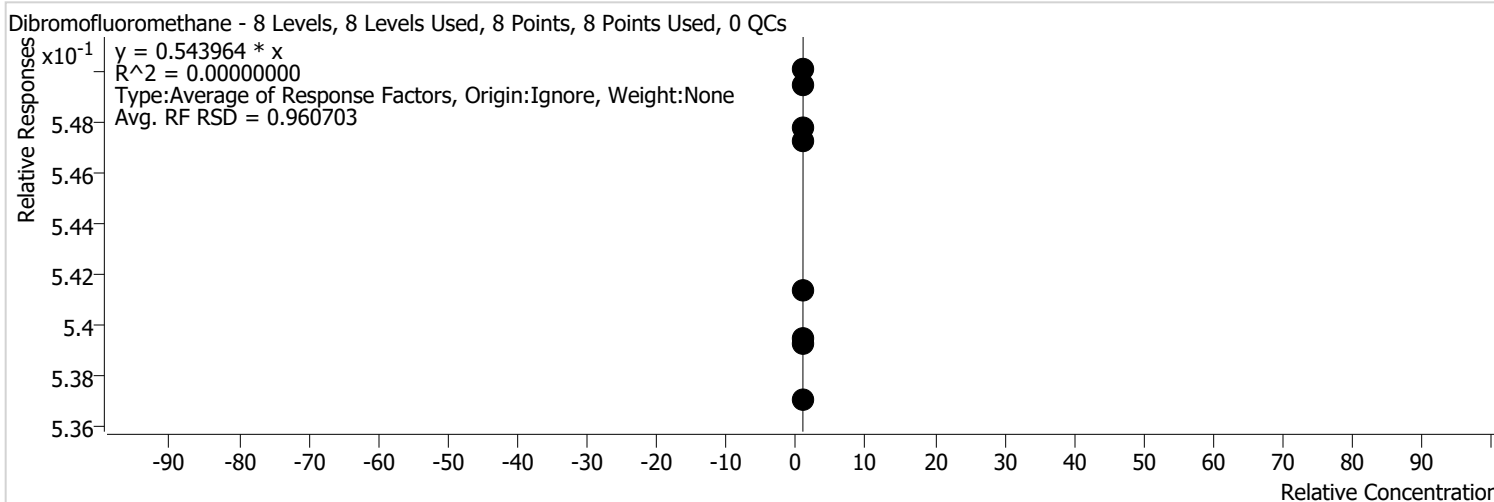


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\081524\081555.D	Calibration	1		3017	0.2000	0.5564	
D:\GC-19\Data\081524\081556.D	Calibration	2		1571	0.5000	0.1104	
D:\GC-19\Data\081524\081557.D	Calibration	3	x	7401	1.0000	0.2590	
D:\GC-19\Data\081524\081558.D	Calibration	4	x	12116	2.0000	0.2133	
D:\GC-19\Data\081524\081559.D	Calibration	5	x	25151	5.0000	0.1770	
D:\GC-19\Data\081524\081560.D	Calibration	6	x	51114	10.0000	0.1791	
D:\GC-19\Data\081524\081561.D	Calibration	7	x	117996	20.0000	0.1947	
D:\GC-19\Data\081524\081562.D	Calibration	8	x	227477	40.0000	0.1912	

# Calibration Report

Batch Path	D:\GC-19\Data\081524\QuantResults\voc s ical.batch.bin		
Analysis Time	8/19/2024 12:33 PM	Analyst Name	FA\GC19
Report Time	8/19/2024 12:34:02 PM	Reporter Name	FA\GC19
Last Calib Update	8/19/2024 12:17 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

**Dibromofluoromethane %RSE =**

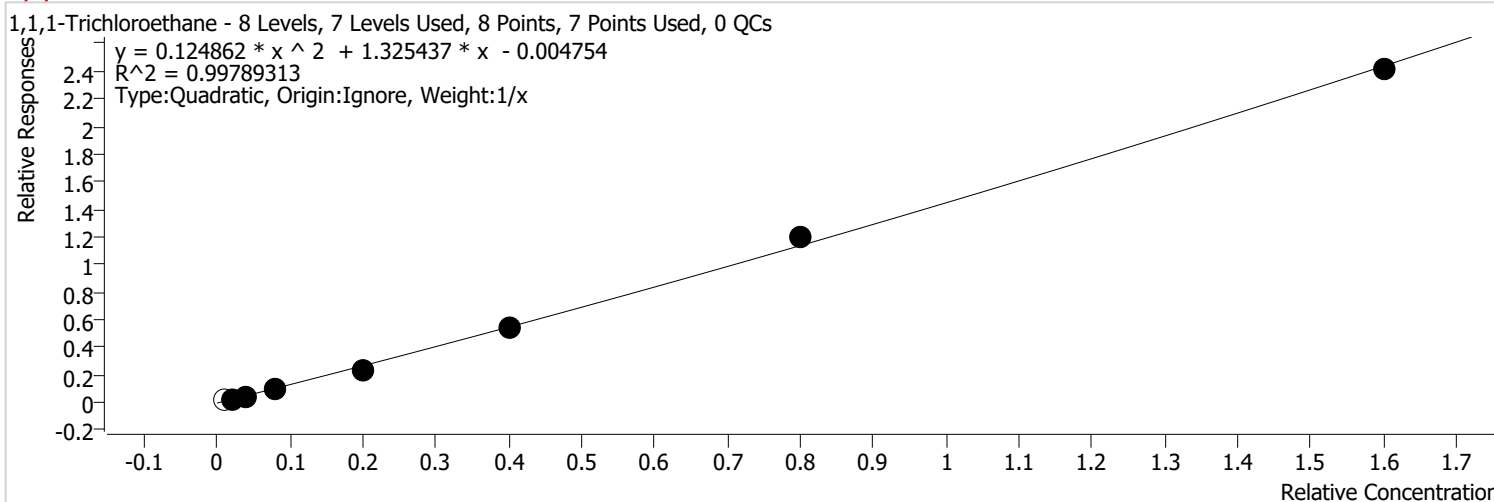


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\081524\081562.D	Calibration	8	x	399415	25.0000	0.5371	
D:\GC-19\Data\081524\081561.D	Calibration	7	x	414934	25.0000	0.5478	
D:\GC-19\Data\081524\081560.D	Calibration	6	x	391966	25.0000	0.5495	
D:\GC-19\Data\081524\081559.D	Calibration	5	x	388880	25.0000	0.5472	
D:\GC-19\Data\081524\081558.D	Calibration	4	x	390652	25.0000	0.5501	
D:\GC-19\Data\081524\081557.D	Calibration	3	x	385227	25.0000	0.5392	
D:\GC-19\Data\081524\081556.D	Calibration	2	x	383826	25.0000	0.5394	
D:\GC-19\Data\081524\081555.D	Calibration	1	x	366888	25.0000	0.5413	

# Calibration Report

Batch Path	D:\GC-19\Data\081524\QuantResults\voc s ical.batch.bin		
Analysis Time	8/19/2024 12:33 PM	Analyst Name	FA\GC19
Report Time	8/19/2024 12:34:02 PM	Reporter Name	FA\GC19
Last Calib Update	8/19/2024 12:17 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

**1,1,1-Trichloroethane %RSE = 11.3**



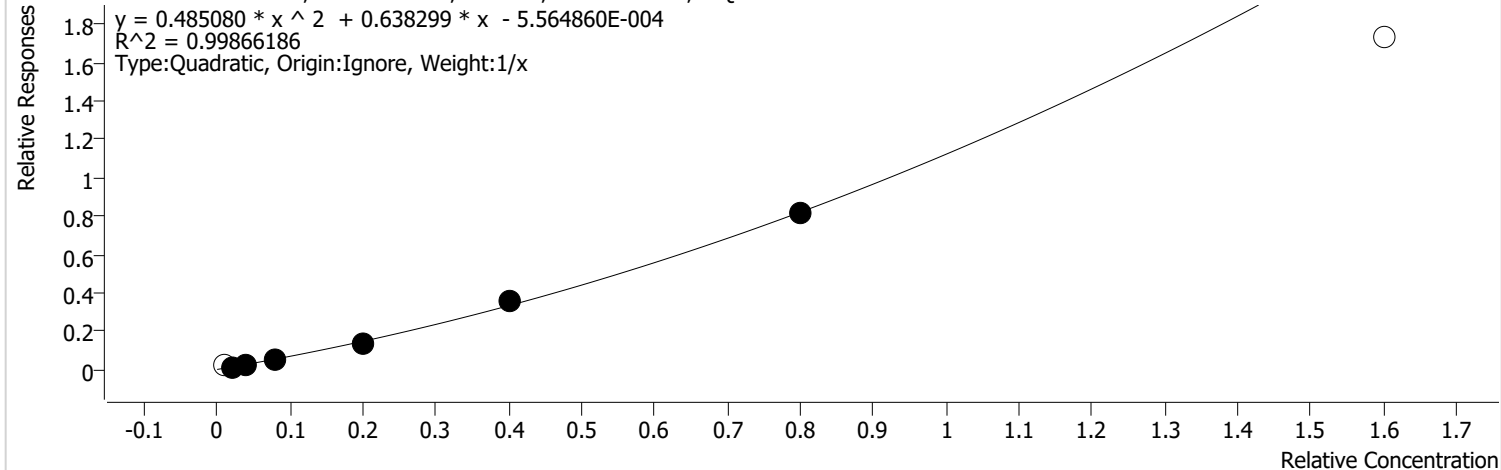
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\081524\081555.D	Calibration	1		19700	0.2000	3.6334	
D:\GC-19\Data\081524\081556.D	Calibration	2	x	18650	0.5000	1.3105	
D:\GC-19\Data\081524\081557.D	Calibration	3	x	34029	1.0000	1.1908	
D:\GC-19\Data\081524\081558.D	Calibration	4	x	66560	2.0000	1.1716	
D:\GC-19\Data\081524\081559.D	Calibration	5	x	165054	5.0000	1.1613	
D:\GC-19\Data\081524\081560.D	Calibration	6	x	392774	10.0000	1.3766	
D:\GC-19\Data\081524\081561.D	Calibration	7	x	904588	20.0000	1.4929	
D:\GC-19\Data\081524\081562.D	Calibration	8	x	1791797	40.0000	1.5059	

# Calibration Report

Batch Path	D:\GC-19\Data\081524\QuantResults\voc s ical.batch.bin		
Analysis Time	8/19/2024 12:33 PM	Analyst Name	FA\GC19
Report Time	8/19/2024 12:34:02 PM	Reporter Name	FA\GC19
Last Calib Update	8/19/2024 12:17 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

**carbon tetrachloride %RSE = 6.8**

carbon tetrachloride - 8 Levels, 6 Levels Used, 8 Points, 6 Points Used, 0 QCs

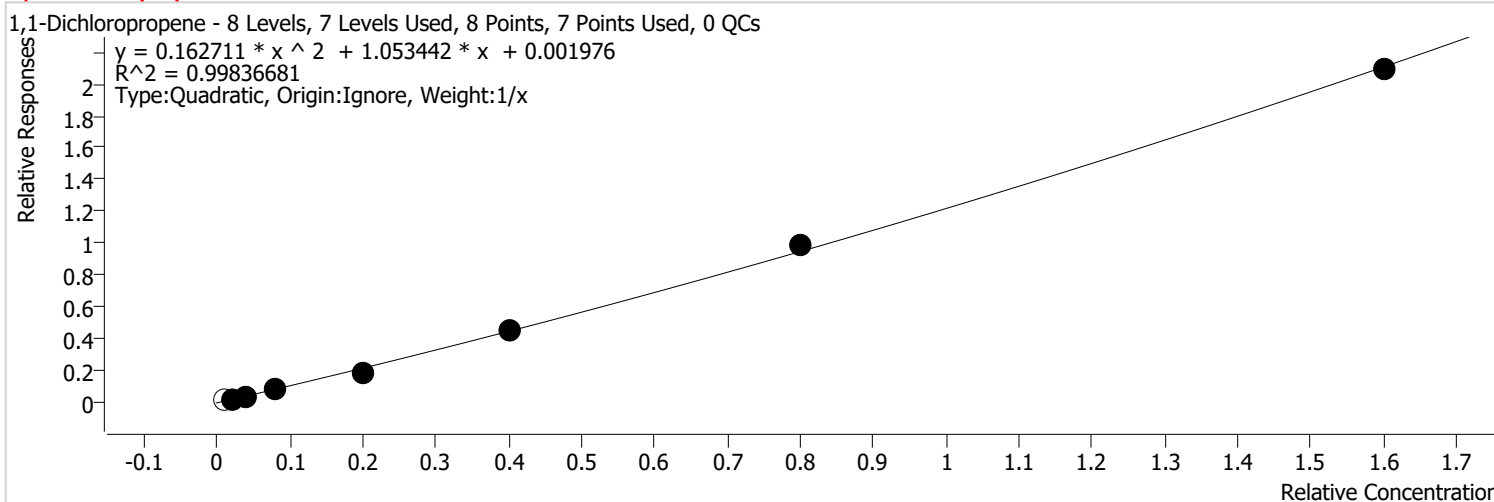


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\081524\081555.D	Calibration	1		10846	0.2000	2.0005	
D:\GC-19\Data\081524\081556.D	Calibration	2	x	9573	0.5000	0.6727	
D:\GC-19\Data\081524\081557.D	Calibration	3	x	18100	1.0000	0.6334	
D:\GC-19\Data\081524\081558.D	Calibration	4	x	36386	2.0000	0.6404	
D:\GC-19\Data\081524\081559.D	Calibration	5	x	97167	5.0000	0.6837	
D:\GC-19\Data\081524\081560.D	Calibration	6	x	249695	10.0000	0.8752	
D:\GC-19\Data\081524\081561.D	Calibration	7	x	616824	20.0000	1.0180	
D:\GC-19\Data\081524\081562.D	Calibration	8		1287388	40.0000	1.0820	

# Calibration Report

Batch Path	D:\GC-19\Data\081524\QuantResults\voc s ical.batch.bin		
Analysis Time	8/19/2024 12:33 PM	Analyst Name	FA\GC19
Report Time	8/19/2024 12:34:02 PM	Reporter Name	FA\GC19
Last Calib Update	8/19/2024 12:17 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

**1,1-Dichloropropene %RSE = 12.7**



Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\081524\081555.D	Calibration	1		19288	0.2000	3.5573	
D:\GC-19\Data\081524\081556.D	Calibration	2	x	19458	0.5000	1.3673	
D:\GC-19\Data\081524\081557.D	Calibration	3	x	29056	1.0000	1.0168	
D:\GC-19\Data\081524\081558.D	Calibration	4	x	59063	2.0000	1.0396	
D:\GC-19\Data\081524\081559.D	Calibration	5	x	137698	5.0000	0.9688	
D:\GC-19\Data\081524\081560.D	Calibration	6	x	327555	10.0000	1.1480	
D:\GC-19\Data\081524\081561.D	Calibration	7	x	746269	20.0000	1.2316	
D:\GC-19\Data\081524\081562.D	Calibration	8	x	1551874	40.0000	1.3042	

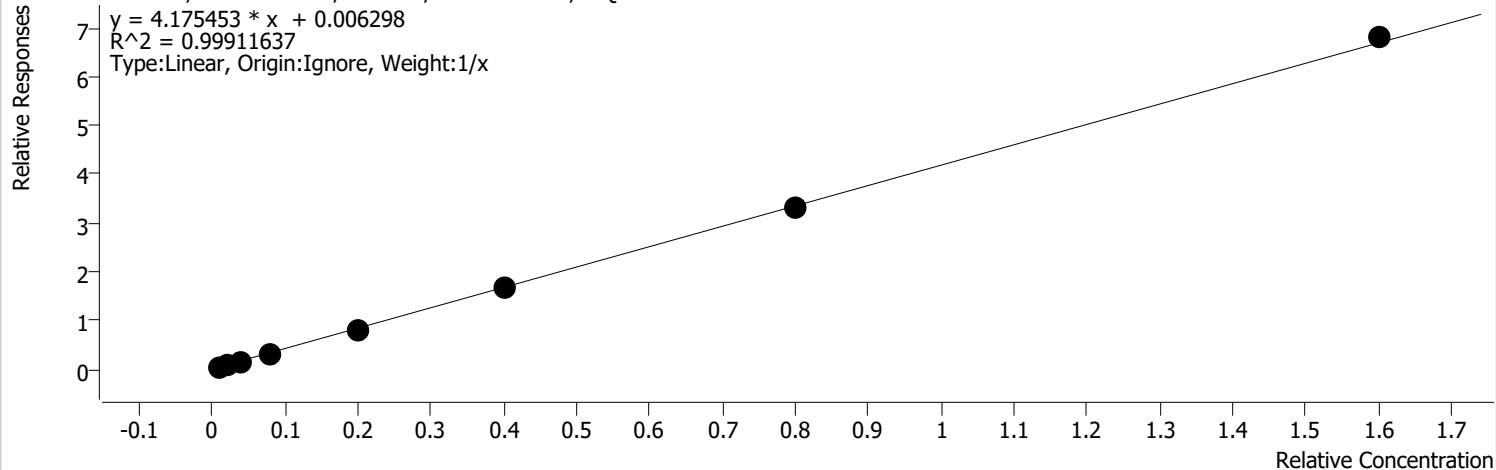


# Calibration Report

Batch Path	D:\GC-19\Data\081524\QuantResults\vo c s ical.batch.bin		
Analysis Time	8/19/2024 12:33 PM	Analyst Name	FA\GC19
Report Time	8/19/2024 12:34:02 PM	Reporter Name	FA\GC19
Last Calib Update	8/19/2024 12:17 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

**Benzene %RSE = 13.4**

Benzene - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs

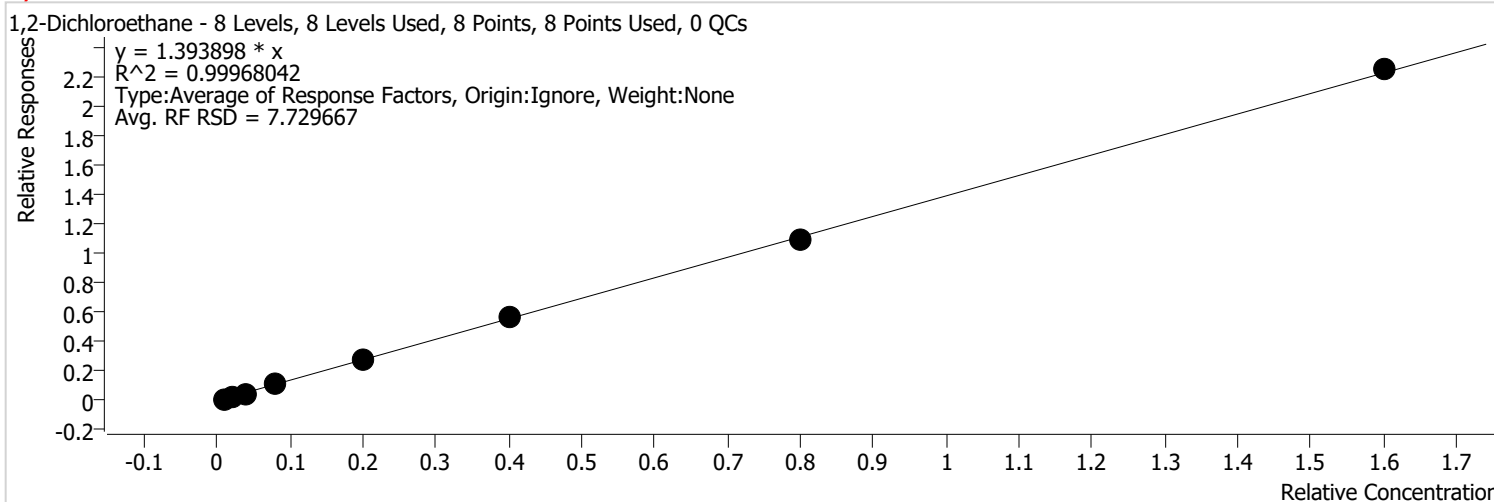


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\081524\081555.D	Calibration	1	x	33360	0.2000	6.1528	
D:\GC-19\Data\081524\081556.D	Calibration	2	x	60650	0.5000	4.2618	
D:\GC-19\Data\081524\081557.D	Calibration	3	x	107968	1.0000	3.7782	
D:\GC-19\Data\081524\081558.D	Calibration	4	x	227834	2.0000	4.0102	
D:\GC-19\Data\081524\081559.D	Calibration	5	x	572150	5.0000	4.0256	
D:\GC-19\Data\081524\081560.D	Calibration	6	x	1192149	10.0000	4.1783	
D:\GC-19\Data\081524\081561.D	Calibration	7	x	2513731	20.0000	4.1485	
D:\GC-19\Data\081524\081562.D	Calibration	8	x	5051792	40.0000	4.2457	

# Calibration Report

Batch Path	D:\GC-19\Data\081524\QuantResults\voc s ical.batch.bin		
Analysis Time	8/19/2024 12:33 PM	Analyst Name	FA\GC19
Report Time	8/19/2024 12:34:02 PM	Reporter Name	FA\GC19
Last Calib Update	8/19/2024 12:17 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

**1,2-Dichloroethane %RSE = 7.7**



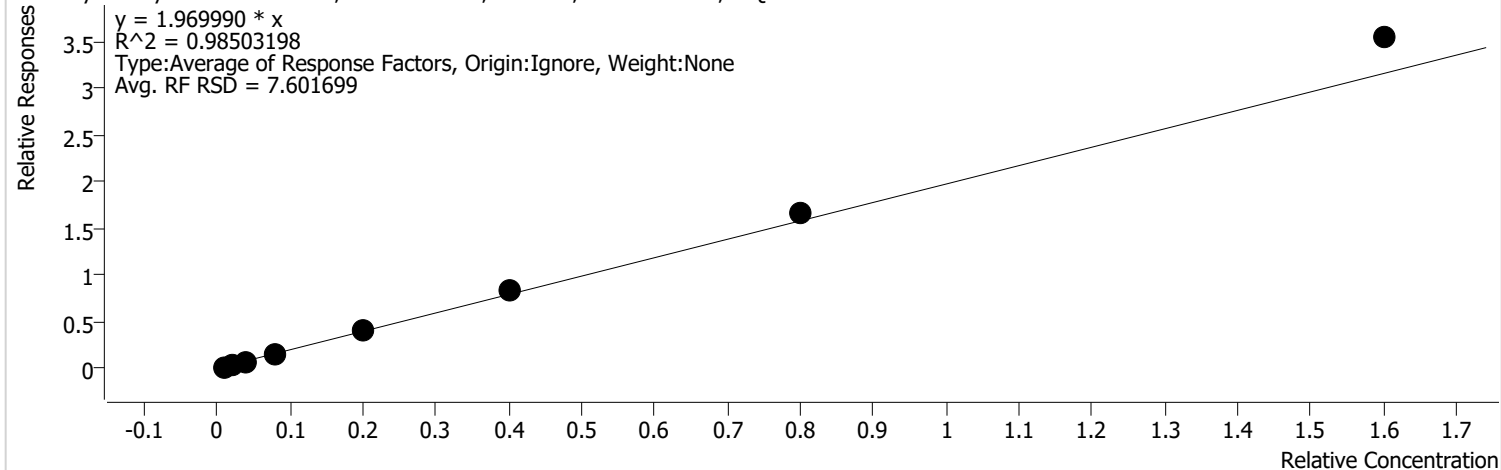
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\081524\081555.D	Calibration	1	x	8807	0.2000	1.6243	
D:\GC-19\Data\081524\081556.D	Calibration	2	x	19830	0.5000	1.3935	
D:\GC-19\Data\081524\081557.D	Calibration	3	x	35647	1.0000	1.2474	
D:\GC-19\Data\081524\081558.D	Calibration	4	x	75890	2.0000	1.3358	
D:\GC-19\Data\081524\081559.D	Calibration	5	x	192884	5.0000	1.3571	
D:\GC-19\Data\081524\081560.D	Calibration	6	x	405860	10.0000	1.4225	
D:\GC-19\Data\081524\081561.D	Calibration	7	x	825746	20.0000	1.3627	
D:\GC-19\Data\081524\081562.D	Calibration	8	x	1675205	40.0000	1.4079	

# Calibration Report

Batch Path	D:\GC-19\Data\081524\QuantResults\voc s ical.batch.bin		
Analysis Time	8/19/2024 12:33 PM	Analyst Name	FA\GC19
Report Time	8/19/2024 12:34:02 PM	Reporter Name	FA\GC19
Last Calib Update	8/19/2024 12:17 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

**tert-Amyl Methyl Ether %RSE = 7.6**

tert-Amyl Methyl Ether - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs



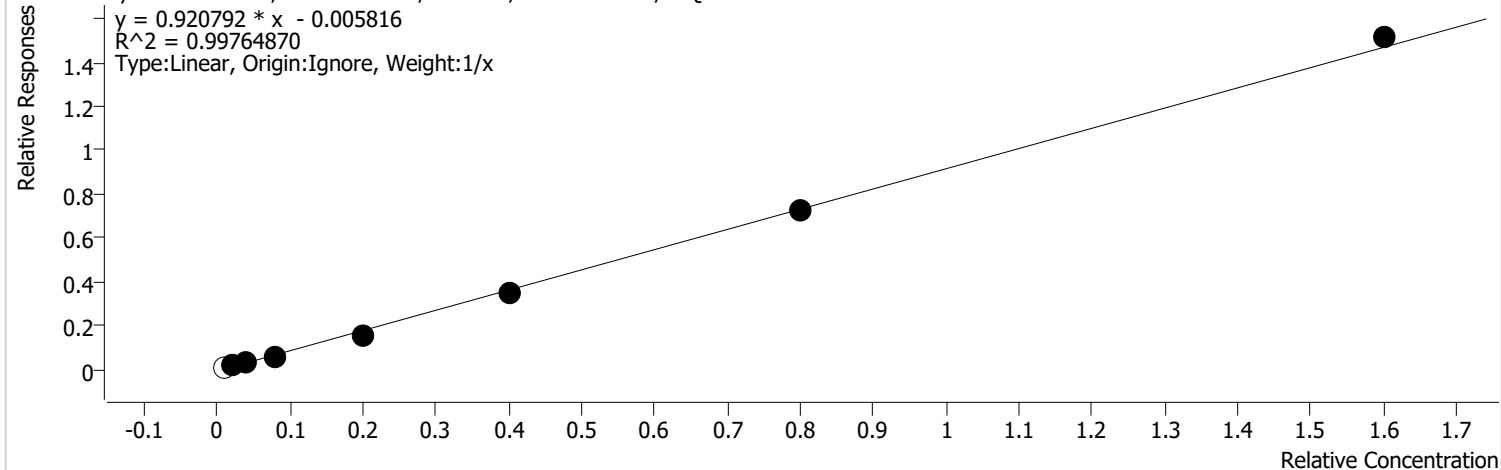
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\081524\081555.D	Calibration	1	x	10226	0.2000	1.8860	
D:\GC-19\Data\081524\081556.D	Calibration	2	x	26147	0.5000	1.8373	
D:\GC-19\Data\081524\081557.D	Calibration	3	x	50565	1.0000	1.7694	
D:\GC-19\Data\081524\081558.D	Calibration	4	x	108244	2.0000	1.9053	
D:\GC-19\Data\081524\081559.D	Calibration	5	x	279417	5.0000	1.9659	
D:\GC-19\Data\081524\081560.D	Calibration	6	x	600139	10.0000	2.1034	
D:\GC-19\Data\081524\081561.D	Calibration	7	x	1262398	20.0000	2.0834	
D:\GC-19\Data\081524\081562.D	Calibration	8	x	2628681	40.0000	2.2092	

# Calibration Report

Batch Path	D:\GC-19\Data\081524\QuantResults\voc s ical.batch.bin		
Analysis Time	8/19/2024 12:33 PM	Analyst Name	FA\GC19
Report Time	8/19/2024 12:34:02 PM	Reporter Name	FA\GC19
Last Calib Update	8/19/2024 12:17 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

**trichloroethylene %RSE = 13.8**

trichloroethylene - 8 Levels, 7 Levels Used, 8 Points, 7 Points Used, 0 QCs

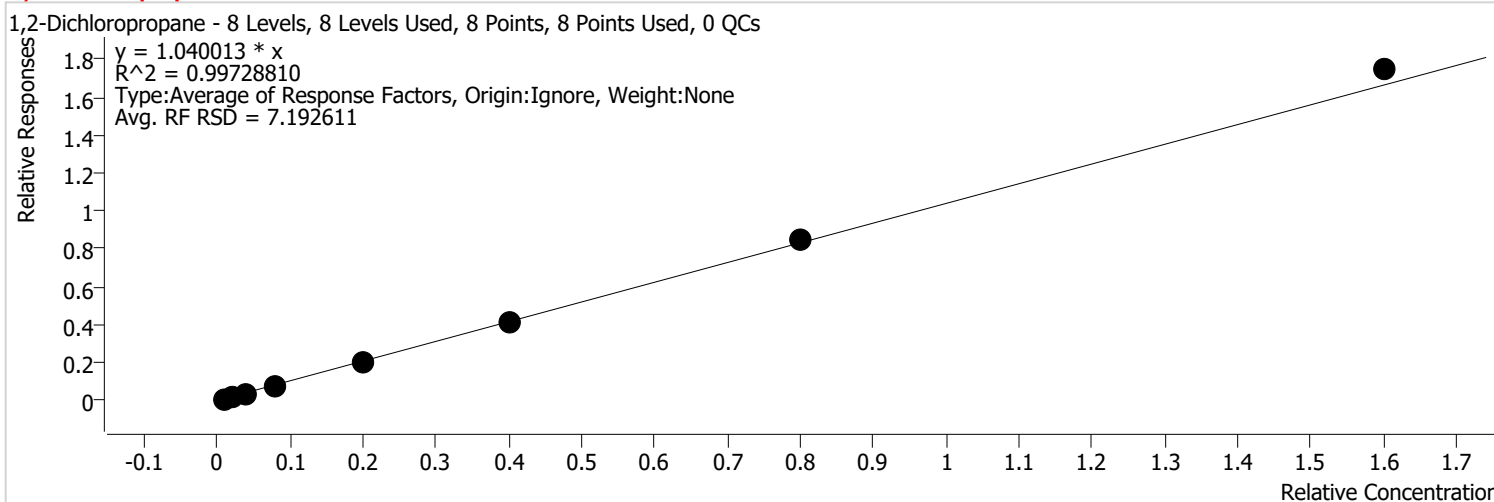


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\081524\081555.D	Calibration	1		8954	0.2000	1.6514	
D:\GC-19\Data\081524\081556.D	Calibration	2	x	12473	0.5000	0.8765	
D:\GC-19\Data\081524\081557.D	Calibration	3	x	20256	1.0000	0.7088	
D:\GC-19\Data\081524\081558.D	Calibration	4	x	44180	2.0000	0.7776	
D:\GC-19\Data\081524\081559.D	Calibration	5	x	113432	5.0000	0.7981	
D:\GC-19\Data\081524\081560.D	Calibration	6	x	249465	10.0000	0.8743	
D:\GC-19\Data\081524\081561.D	Calibration	7	x	546614	20.0000	0.9021	
D:\GC-19\Data\081524\081562.D	Calibration	8	x	1124017	40.0000	0.9447	

# Calibration Report

Batch Path	D:\GC-19\Data\081524\QuantResults\voc s ical.batch.bin		
Analysis Time	8/19/2024 12:33 PM	Analyst Name	FA\GC19
Report Time	8/19/2024 12:34:02 PM	Reporter Name	FA\GC19
Last Calib Update	8/19/2024 12:17 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

**1,2-Dichloropropane %RSE = 7.2**

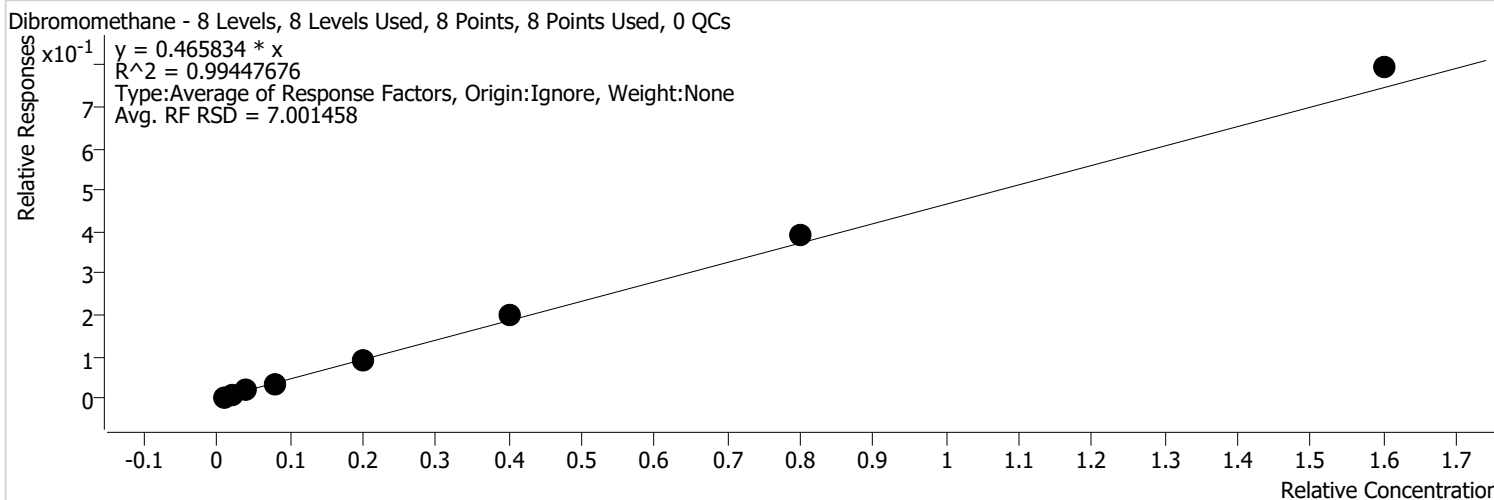


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\081524\081555.D	Calibration	1	x	6247	0.2000	1.1522	
D:\GC-19\Data\081524\081556.D	Calibration	2	x	15627	0.5000	1.0981	
D:\GC-19\Data\081524\081557.D	Calibration	3	x	26568	1.0000	0.9297	
D:\GC-19\Data\081524\081558.D	Calibration	4	x	54721	2.0000	0.9632	
D:\GC-19\Data\081524\081559.D	Calibration	5	x	141250	5.0000	0.9938	
D:\GC-19\Data\081524\081560.D	Calibration	6	x	294772	10.0000	1.0331	
D:\GC-19\Data\081524\081561.D	Calibration	7	x	641727	20.0000	1.0591	
D:\GC-19\Data\081524\081562.D	Calibration	8	x	1297942	40.0000	1.0908	

# Calibration Report

Batch Path	D:\GC-19\Data\081524\QuantResults\voc s ical.batch.bin		
Analysis Time	8/19/2024 12:33 PM	Analyst Name	FA\GC19
Report Time	8/19/2024 12:34:02 PM	Reporter Name	FA\GC19
Last Calib Update	8/19/2024 12:17 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

**Dibromomethane %RSE = 7.0**



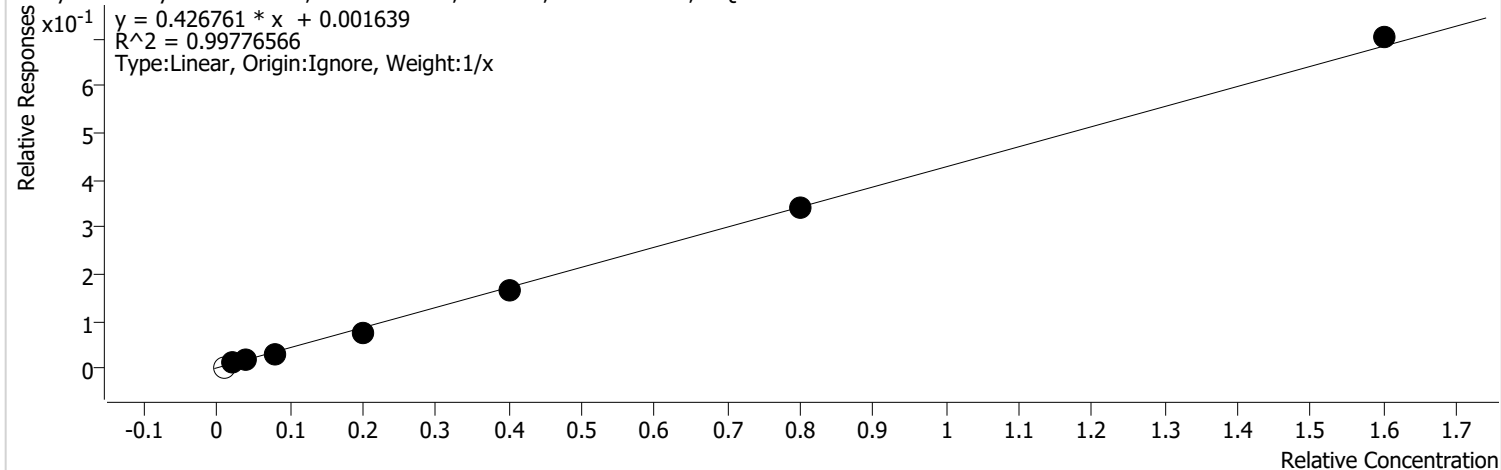
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\081524\081555.D	Calibration	1	x	2603	0.2000	0.4801	
D:\GC-19\Data\081524\081556.D	Calibration	2	x	5753	0.5000	0.4043	
D:\GC-19\Data\081524\081557.D	Calibration	3	x	12861	1.0000	0.4500	
D:\GC-19\Data\081524\081558.D	Calibration	4	x	25885	2.0000	0.4556	
D:\GC-19\Data\081524\081559.D	Calibration	5	x	63696	5.0000	0.4482	
D:\GC-19\Data\081524\081560.D	Calibration	6	x	142675	10.0000	0.5001	
D:\GC-19\Data\081524\081561.D	Calibration	7	x	298487	20.0000	0.4926	
D:\GC-19\Data\081524\081562.D	Calibration	8	x	589970	40.0000	0.4958	

# Calibration Report

Batch Path	D:\GC-19\Data\081524\QuantResults\voc s ical.batch.bin		
Analysis Time	8/19/2024 12:33 PM	Analyst Name	FA\GC19
Report Time	8/19/2024 12:34:02 PM	Reporter Name	FA\GC19
Last Calib Update	8/19/2024 12:17 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

**Methyl methacrylate %RSE = 13.1**

Methyl methacrylate - 8 Levels, 7 Levels Used, 8 Points, 7 Points Used, 0 QCs



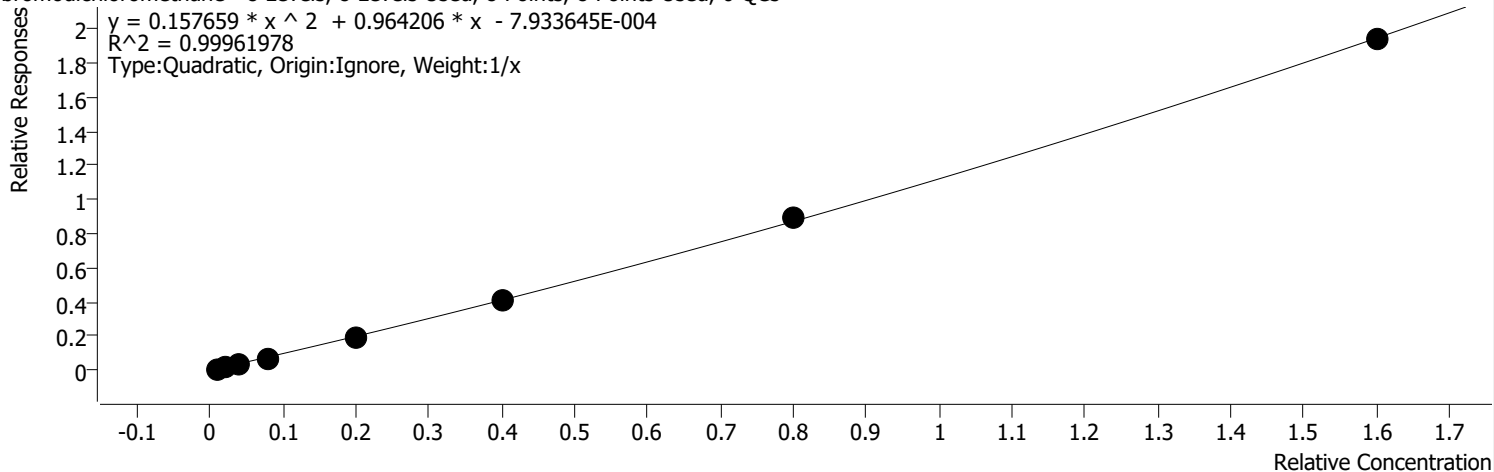
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\081524\081555.D	Calibration	1		2546	0.2000	0.4696	
D:\GC-19\Data\081524\081556.D	Calibration	2	x	8716	0.5000	0.6125	
D:\GC-19\Data\081524\081557.D	Calibration	3	x	13181	1.0000	0.4613	
D:\GC-19\Data\081524\081558.D	Calibration	4	x	22601	2.0000	0.3978	
D:\GC-19\Data\081524\081559.D	Calibration	5	x	55483	5.0000	0.3904	
D:\GC-19\Data\081524\081560.D	Calibration	6	x	119582	10.0000	0.4191	
D:\GC-19\Data\081524\081561.D	Calibration	7	x	258123	20.0000	0.4260	
D:\GC-19\Data\081524\081562.D	Calibration	8	x	522399	40.0000	0.4390	

# Calibration Report

Batch Path	D:\GC-19\Data\081524\QuantResults\voc s ical.batch.bin		
Analysis Time	8/19/2024 12:33 PM	Analyst Name	FA\GC19
Report Time	8/19/2024 12:34:02 PM	Reporter Name	FA\GC19
Last Calib Update	8/19/2024 12:17 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

**bromodichloromethane %RSE = 7.6**

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-19\Data\081524\081555.D	Calibration	1	x	5394	0.2000	0.9948	
D:\GC-19\Data\081524\081556.D	Calibration	2	x	13398	0.5000	0.9415	
D:\GC-19\Data\081524\081557.D	Calibration	3	x	25244	1.0000	0.8834	
D:\GC-19\Data\081524\081558.D	Calibration	4	x	50886	2.0000	0.8957	
D:\GC-19\Data\081524\081559.D	Calibration	5	x	136697	5.0000	0.9618	
D:\GC-19\Data\081524\081560.D	Calibration	6	x	294887	10.0000	1.0335	
D:\GC-19\Data\081524\081561.D	Calibration	7	x	674490	20.0000	1.1131	
D:\GC-19\Data\081524\081562.D	Calibration	8	x	1439962	40.0000	1.2102	

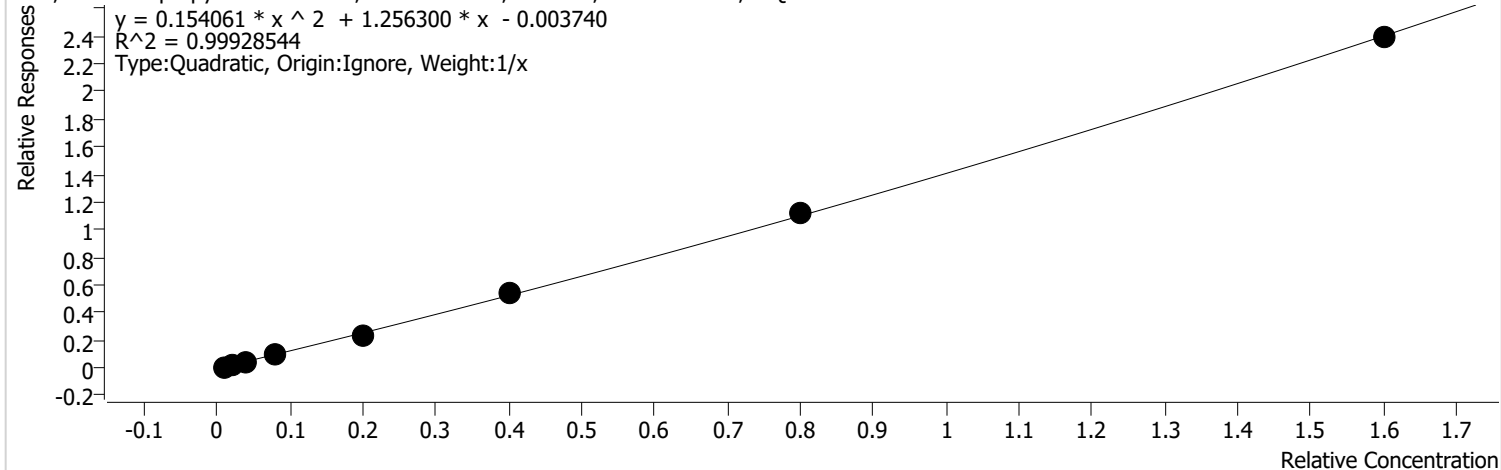


# Calibration Report

Batch Path	D:\GC-19\Data\081524\QuantResults\voc s ical.batch.bin		
Analysis Time	8/19/2024 12:33 PM	Analyst Name	FA\GC19
Report Time	8/19/2024 12:34:02 PM	Reporter Name	FA\GC19
Last Calib Update	8/19/2024 12:17 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

**cis-1,3-Dichloropropylene %RSE = 11.4**

cis-1,3-Dichloropropylene - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs



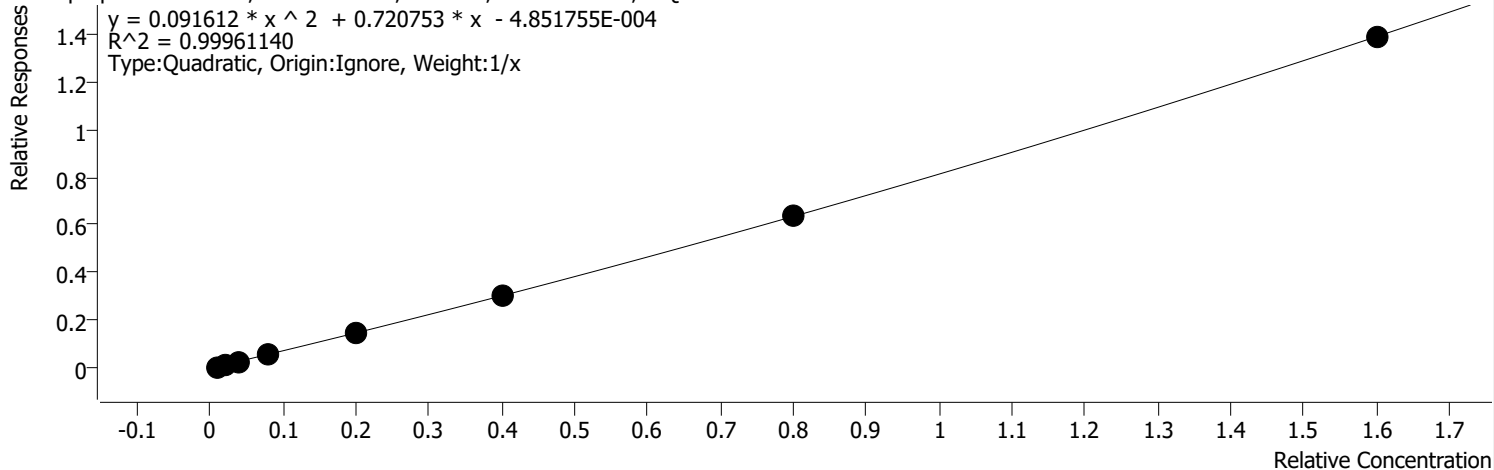
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\081524\081555.D	Calibration	1	x	5573	0.2000	1.0278	
D:\GC-19\Data\081524\081556.D	Calibration	2	x	15653	0.5000	1.0999	
D:\GC-19\Data\081524\081557.D	Calibration	3	x	27923	1.0000	0.9771	
D:\GC-19\Data\081524\081558.D	Calibration	4	x	65877	2.0000	1.1595	
D:\GC-19\Data\081524\081559.D	Calibration	5	x	171181	5.0000	1.2044	
D:\GC-19\Data\081524\081560.D	Calibration	6	x	382697	10.0000	1.3413	
D:\GC-19\Data\081524\081561.D	Calibration	7	x	850005	20.0000	1.4028	
D:\GC-19\Data\081524\081562.D	Calibration	8	x	1776119	40.0000	1.4927	

# Calibration Report

Batch Path	D:\GC-19\Data\081524\QuantResults\voc s ical.batch.bin		
Analysis Time	8/19/2024 12:33 PM	Analyst Name	FA\GC19
Report Time	8/19/2024 12:34:02 PM	Reporter Name	FA\GC19
Last Calib Update	8/19/2024 12:17 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

**2-Nitropropane %RSE = 6.4**

2-Nitropropane - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs

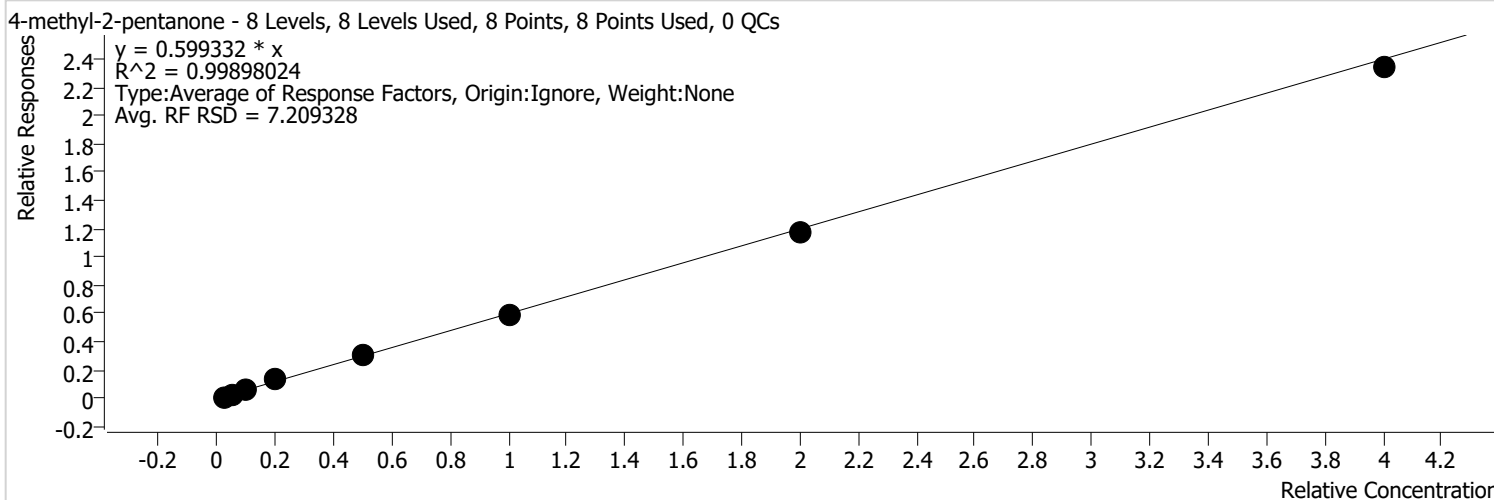


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\081524\081555.D	Calibration	1	x	3701	0.2000	0.6825	
D:\GC-19\Data\081524\081556.D	Calibration	2	x	10926	0.5000	0.7678	
D:\GC-19\Data\081524\081557.D	Calibration	3	x	19659	1.0000	0.6879	
D:\GC-19\Data\081524\081558.D	Calibration	4	x	37312	2.0000	0.6567	
D:\GC-19\Data\081524\081559.D	Calibration	5	x	101323	5.0000	0.7129	
D:\GC-19\Data\081524\081560.D	Calibration	6	x	220093	10.0000	0.7714	
D:\GC-19\Data\081524\081561.D	Calibration	7	x	486770	20.0000	0.8033	
D:\GC-19\Data\081524\081562.D	Calibration	8	x	1028216	40.0000	0.8641	

# Calibration Report

Batch Path	D:\GC-19\Data\081524\QuantResults\voc s ical.batch.bin		
Analysis Time	8/19/2024 12:33 PM	Analyst Name	FA\GC19
Report Time	8/19/2024 12:34:02 PM	Reporter Name	FA\GC19
Last Calib Update	8/19/2024 12:17 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

**4-methyl-2-pentanone %RSE = 7.2**

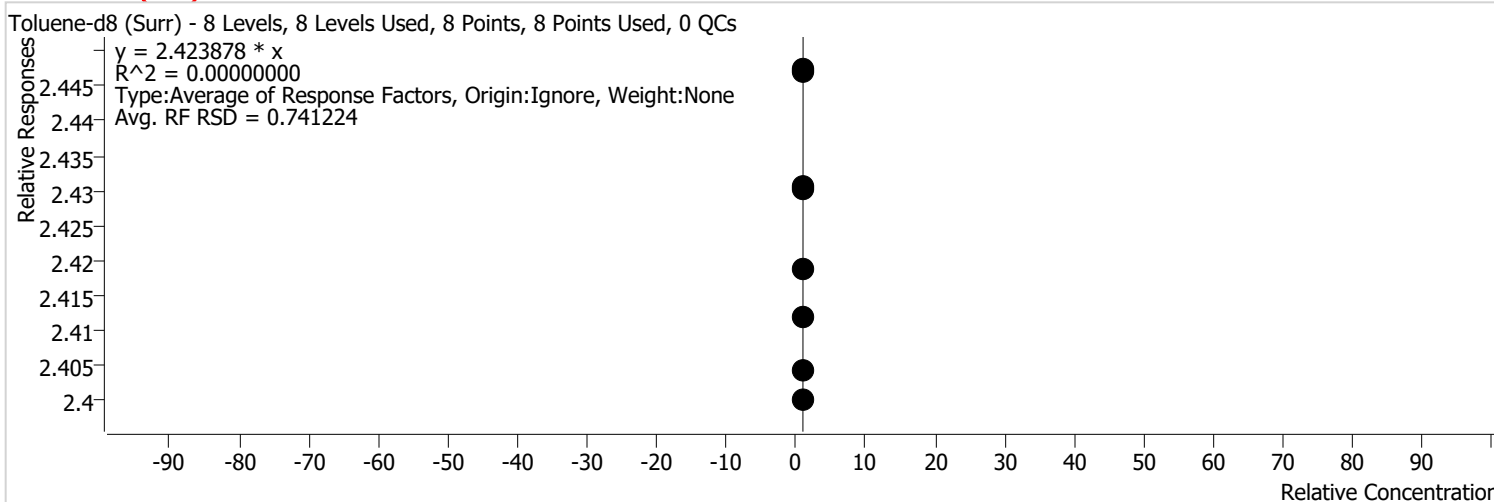


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\081524\081555.D	Calibration	1	x	7820	0.5000	0.5769	
D:\GC-19\Data\081524\081556.D	Calibration	2	x	22223	1.2500	0.6246	
D:\GC-19\Data\081524\081557.D	Calibration	3	x	38533	2.5000	0.5394	
D:\GC-19\Data\081524\081558.D	Calibration	4	x	97769	5.0000	0.6884	
D:\GC-19\Data\081524\081559.D	Calibration	5	x	211628	12.5000	0.5956	
D:\GC-19\Data\081524\081560.D	Calibration	6	x	427242	25.0000	0.5990	
D:\GC-19\Data\081524\081561.D	Calibration	7	x	888788	50.0000	0.5867	
D:\GC-19\Data\081524\081562.D	Calibration	8	x	1737519	100.0000	0.5841	

# Calibration Report

<b>Batch Path</b>	D:\GC-19\Data\081524\QuantResults\vo c s ical.batch.bin	<b>Analyst Name</b>	FA\GC19
<b>Analysis Time</b>	8/19/2024 12:33 PM	<b>Reporter Name</b>	FA\GC19
<b>Report Time</b>	8/19/2024 12:34:03 PM	<b>Batch State</b>	Processed
<b>Last Calib Update</b>	8/19/2024 12:17 PM	<b>Quant Report Version</b>	10.0
<b>Quant Batch Version</b>	10.0		

**Toluene-d8 (Surr) %RSE =**

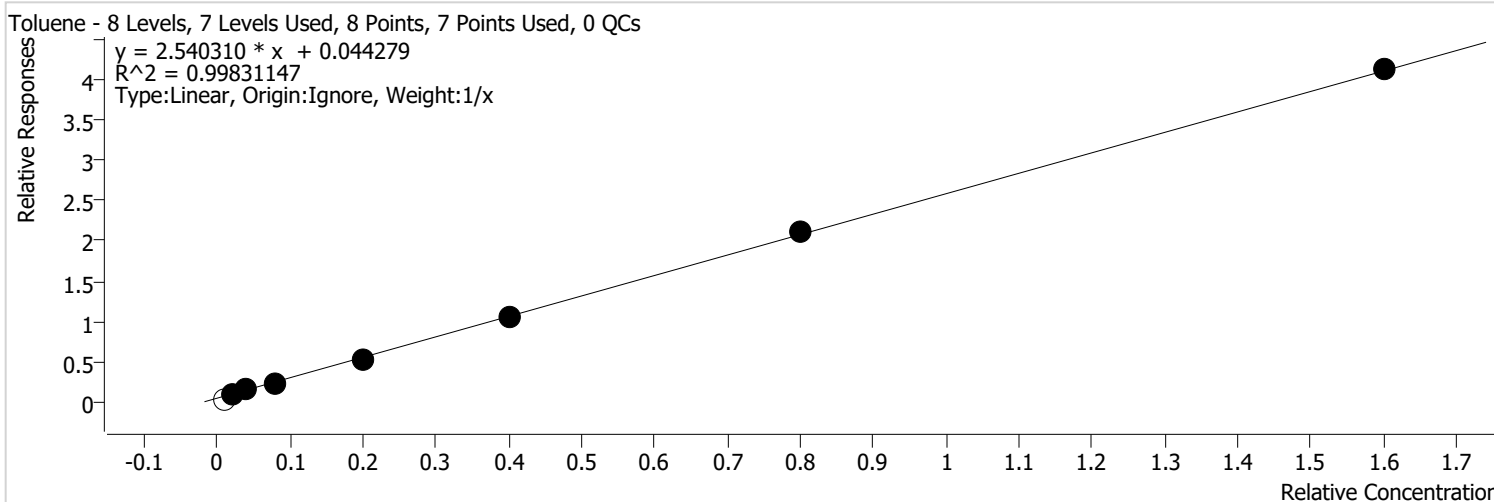


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\081524\081562.D	Calibration	8	x	1788153	25.0000	2.4045	
D:\GC-19\Data\081524\081561.D	Calibration	7	x	1818044	25.0000	2.4003	
D:\GC-19\Data\081524\081560.D	Calibration	6	x	1745366	25.0000	2.4469	
D:\GC-19\Data\081524\081559.D	Calibration	5	x	1719015	25.0000	2.4190	
D:\GC-19\Data\081524\081558.D	Calibration	4	x	1726007	25.0000	2.4304	
D:\GC-19\Data\081524\081557.D	Calibration	3	x	1723259	25.0000	2.4121	
D:\GC-19\Data\081524\081556.D	Calibration	2	x	1729456	25.0000	2.4306	
D:\GC-19\Data\081524\081555.D	Calibration	1	x	1658619	25.0000	2.4473	

# Calibration Report

Batch Path	D:\GC-19\Data\081524\QuantResults\vo c s ical.batch.bin		
Analysis Time	8/19/2024 12:33 PM	Analyst Name	FA\GC19
Report Time	8/19/2024 12:34:03 PM	Reporter Name	FA\GC19
Last Calib Update	8/19/2024 12:17 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

**Toluene %RSE = 11.2**



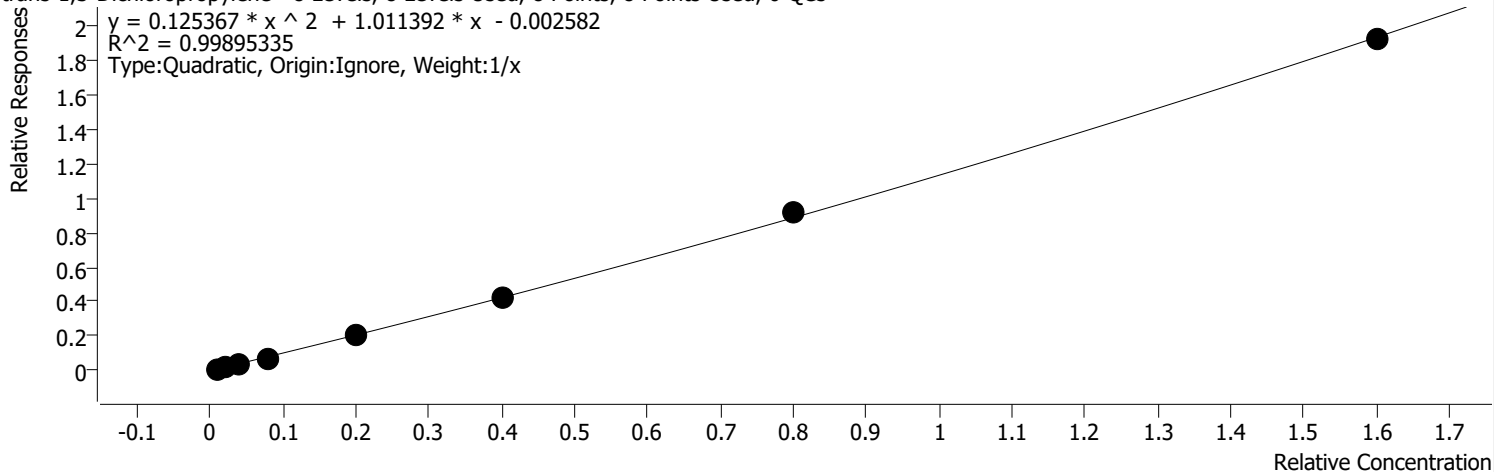
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\081524\081555.D	Calibration	1		24929	0.2000	4.5977	
D:\GC-19\Data\081524\081556.D	Calibration	2	x	70832	0.5000	4.9774	
D:\GC-19\Data\081524\081557.D	Calibration	3	x	113787	1.0000	3.9818	
D:\GC-19\Data\081524\081558.D	Calibration	4	x	148935	2.0000	2.6215	
D:\GC-19\Data\081524\081559.D	Calibration	5	x	371659	5.0000	2.6150	
D:\GC-19\Data\081524\081560.D	Calibration	6	x	761984	10.0000	2.6707	
D:\GC-19\Data\081524\081561.D	Calibration	7	x	1592141	20.0000	2.6275	
D:\GC-19\Data\081524\081562.D	Calibration	8	x	3067403	40.0000	2.5779	

# Calibration Report

Batch Path	D:\GC-19\Data\081524\QuantResults\voc s ical.batch.bin		
Analysis Time	8/19/2024 12:33 PM	Analyst Name	FA\GC19
Report Time	8/19/2024 12:34:03 PM	Reporter Name	FA\GC19
Last Calib Update	8/19/2024 12:17 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

**trans-1,3-Dichloropropylene %RSE = 17.1**

trans-1,3-Dichloropropylene - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs

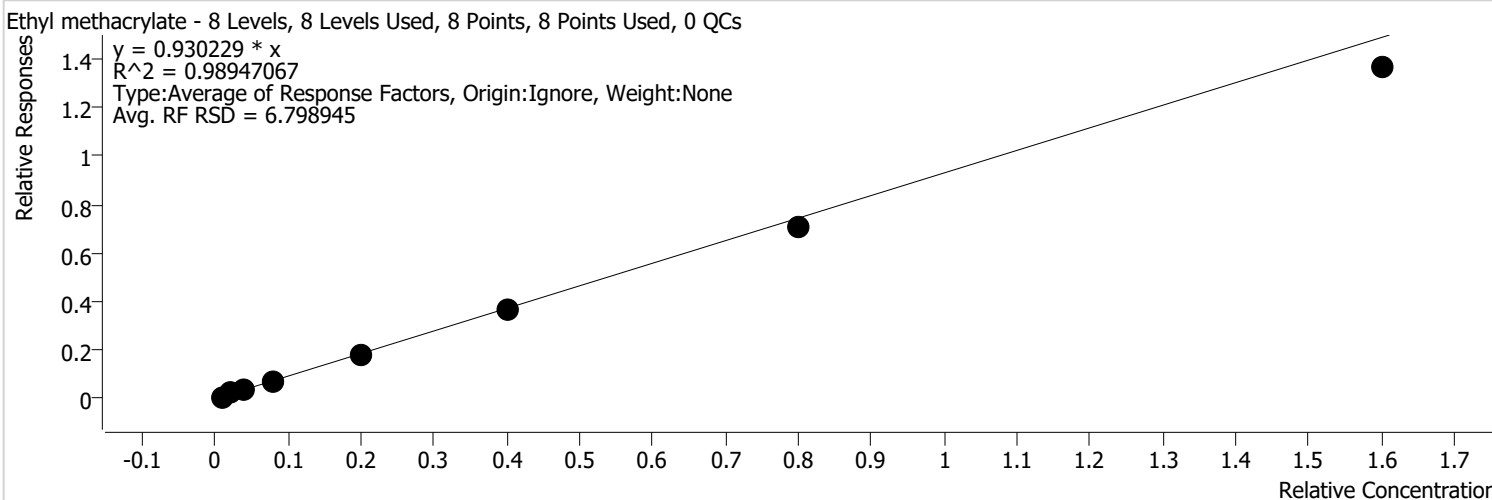


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\081524\081555.D	Calibration	1	x	5542	0.2000	1.0221	
D:\GC-19\Data\081524\081556.D	Calibration	2	x	11076	0.5000	0.7783	
D:\GC-19\Data\081524\081557.D	Calibration	3	x	23339	1.0000	0.8167	
D:\GC-19\Data\081524\081558.D	Calibration	4	x	50810	2.0000	0.8943	
D:\GC-19\Data\081524\081559.D	Calibration	5	x	140188	5.0000	0.9863	
D:\GC-19\Data\081524\081560.D	Calibration	6	x	305360	10.0000	1.0703	
D:\GC-19\Data\081524\081561.D	Calibration	7	x	692709	20.0000	1.1432	
D:\GC-19\Data\081524\081562.D	Calibration	8	x	1429799	40.0000	1.2016	

# Calibration Report

Batch Path	D:\GC-19\Data\081524\QuantResults\voc s ical.batch.bin		
Analysis Time	8/19/2024 12:33 PM	Analyst Name	FA\GC19
Report Time	8/19/2024 12:34:03 PM	Reporter Name	FA\GC19
Last Calib Update	8/19/2024 12:17 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

**Ethyl methacrylate %RSE = 6.8**

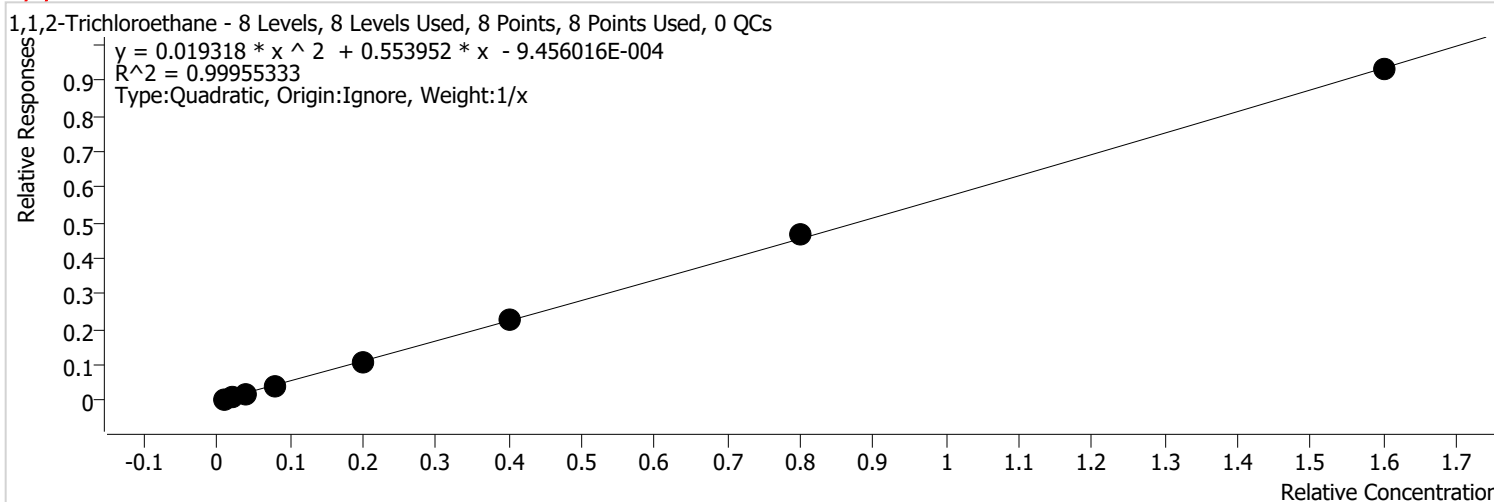


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\081524\081555.D	Calibration	1	x	5333	0.2000	0.9836	
D:\GC-19\Data\081524\081556.D	Calibration	2	x	15028	0.5000	1.0560	
D:\GC-19\Data\081524\081557.D	Calibration	3	x	26759	1.0000	0.9364	
D:\GC-19\Data\081524\081558.D	Calibration	4	x	51303	2.0000	0.9030	
D:\GC-19\Data\081524\081559.D	Calibration	5	x	129005	5.0000	0.9077	
D:\GC-19\Data\081524\081560.D	Calibration	6	x	260776	10.0000	0.9140	
D:\GC-19\Data\081524\081561.D	Calibration	7	x	538579	20.0000	0.8888	
D:\GC-19\Data\081524\081562.D	Calibration	8	x	1014162	40.0000	0.8523	

# Calibration Report

Batch Path	D:\GC-19\Data\081524\QuantResults\voc s ical.batch.bin		
Analysis Time	8/19/2024 12:33 PM	Analyst Name	FA\GC19
Report Time	8/19/2024 12:34:03 PM	Reporter Name	FA\GC19
Last Calib Update	8/19/2024 12:17 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

**1,1,2-Trichloroethane %RSE = 10.0**



Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\081524\081555.D	Calibration	1	x	2938	0.2000	0.5419	
D:\GC-19\Data\081524\081556.D	Calibration	2	x	6742	0.5000	0.4737	
D:\GC-19\Data\081524\081557.D	Calibration	3	x	13824	1.0000	0.4838	
D:\GC-19\Data\081524\081558.D	Calibration	4	x	29525	2.0000	0.5197	
D:\GC-19\Data\081524\081559.D	Calibration	5	x	76534	5.0000	0.5385	
D:\GC-19\Data\081524\081560.D	Calibration	6	x	160803	10.0000	0.5636	
D:\GC-19\Data\081524\081561.D	Calibration	7	x	351515	20.0000	0.5801	
D:\GC-19\Data\081524\081562.D	Calibration	8	x	691731	40.0000	0.5814	

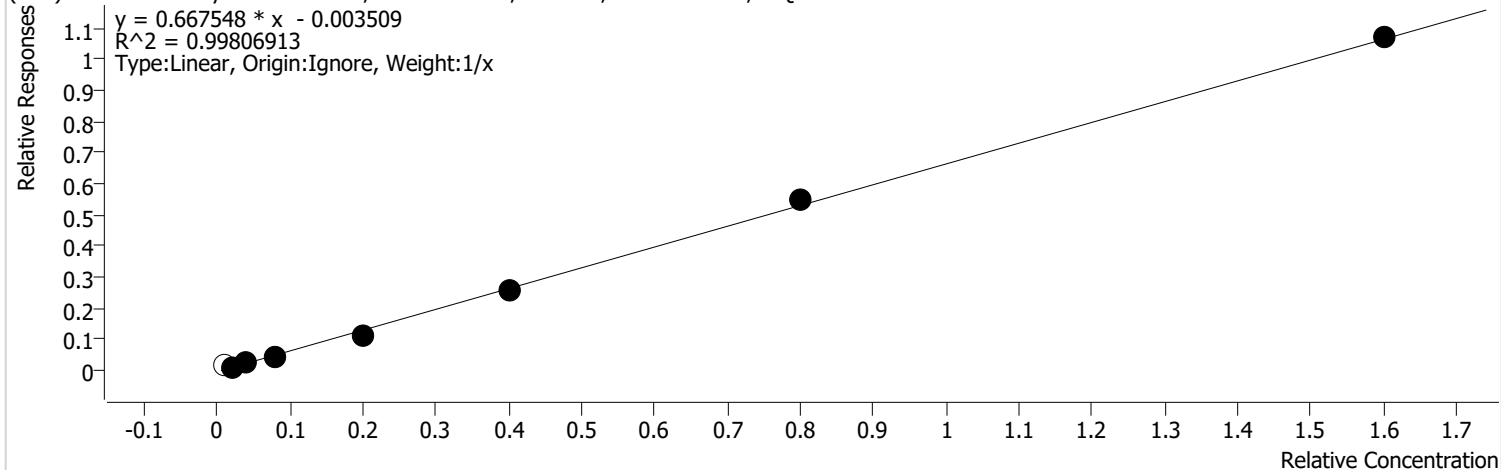


# Calibration Report

Batch Path	D:\GC-19\Data\081524\QuantResults\vo c s ical.batch.bin		
Analysis Time	8/19/2024 12:33 PM	Analyst Name	FA\GC19
Report Time	8/19/2024 12:34:03 PM	Reporter Name	FA\GC19
Last Calib Update	8/19/2024 12:17 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

**(PCE) Tetrachloroethylene %RSE = 10.3**

(PCE) Tetrachloroethylene - 8 Levels, 7 Levels Used, 8 Points, 7 Points Used, 0 QCs

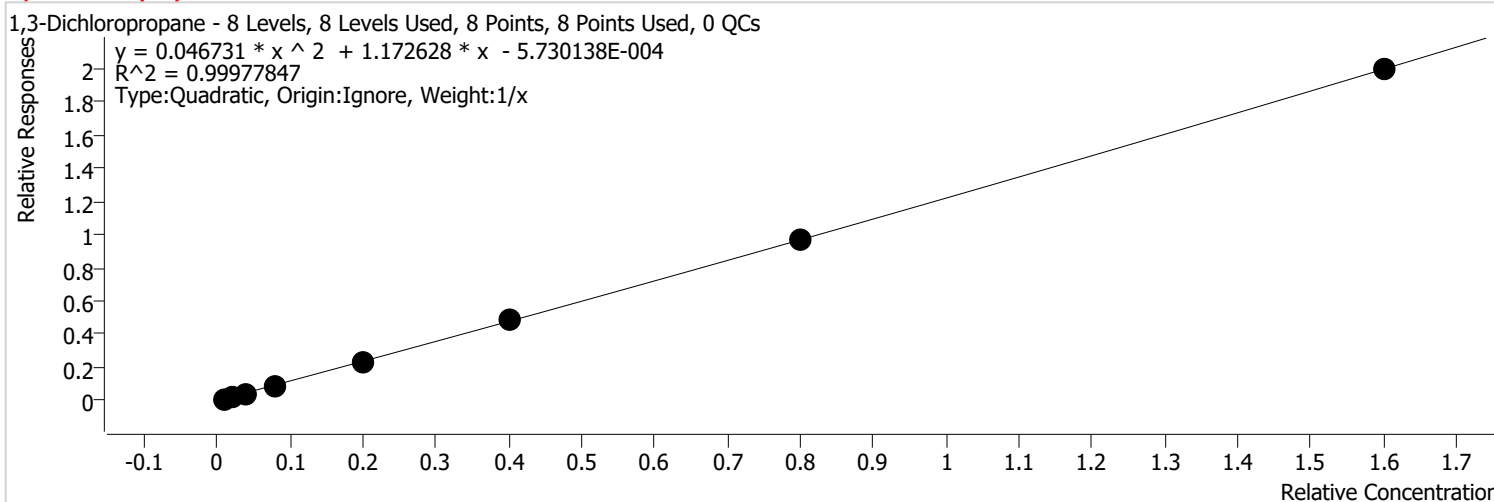


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\081524\081555.D	Calibration	1		9386	0.2000	1.7311	
D:\GC-19\Data\081524\081556.D	Calibration	2	x	8708	0.5000	0.6119	
D:\GC-19\Data\081524\081557.D	Calibration	3	x	16273	1.0000	0.5694	
D:\GC-19\Data\081524\081558.D	Calibration	4	x	33213	2.0000	0.5846	
D:\GC-19\Data\081524\081559.D	Calibration	5	x	80427	5.0000	0.5659	
D:\GC-19\Data\081524\081560.D	Calibration	6	x	184808	10.0000	0.6477	
D:\GC-19\Data\081524\081561.D	Calibration	7	x	414996	20.0000	0.6849	
D:\GC-19\Data\081524\081562.D	Calibration	8	x	795417	40.0000	0.6685	

# Calibration Report

Batch Path	D:\GC-19\Data\081524\QuantResults\voc s ical.batch.bin		
Analysis Time	8/19/2024 12:33 PM	Analyst Name	FA\GC19
Report Time	8/19/2024 12:34:03 PM	Reporter Name	FA\GC19
Last Calib Update	8/19/2024 12:17 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

**1,3-Dichloropropane %RSE = 7.0**



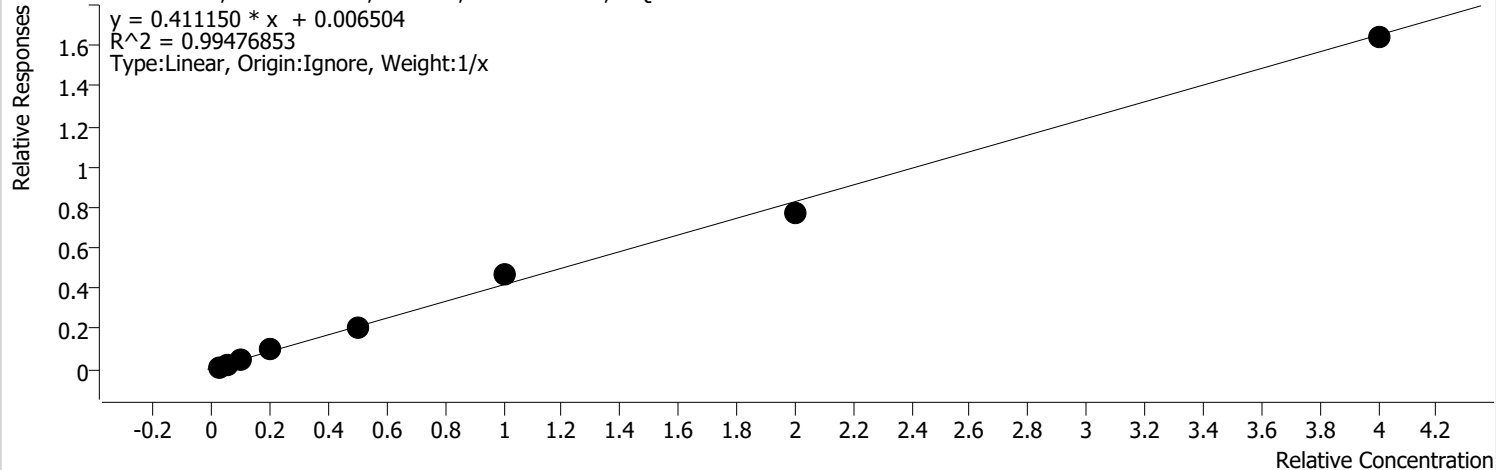
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\081524\081555.D	Calibration	1	x	6704	0.2000	1.2364	
D:\GC-19\Data\081524\081556.D	Calibration	2	x	16294	0.5000	1.1450	
D:\GC-19\Data\081524\081557.D	Calibration	3	x	29644	1.0000	1.0373	
D:\GC-19\Data\081524\081558.D	Calibration	4	x	65155	2.0000	1.1468	
D:\GC-19\Data\081524\081559.D	Calibration	5	x	166170	5.0000	1.1692	
D:\GC-19\Data\081524\081560.D	Calibration	6	x	344376	10.0000	1.2070	
D:\GC-19\Data\081524\081561.D	Calibration	7	x	735827	20.0000	1.2144	
D:\GC-19\Data\081524\081562.D	Calibration	8	x	1481373	40.0000	1.2450	

# Calibration Report

Batch Path	D:\GC-19\Data\081524\QuantResults\vo c s ical.batch.bin		
Analysis Time	8/19/2024 12:33 PM	Analyst Name	FA\GC19
Report Time	8/19/2024 12:34:03 PM	Reporter Name	FA\GC19
Last Calib Update	8/19/2024 12:17 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

**2-Hexanone %RSE = 15.9**

2-Hexanone - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs



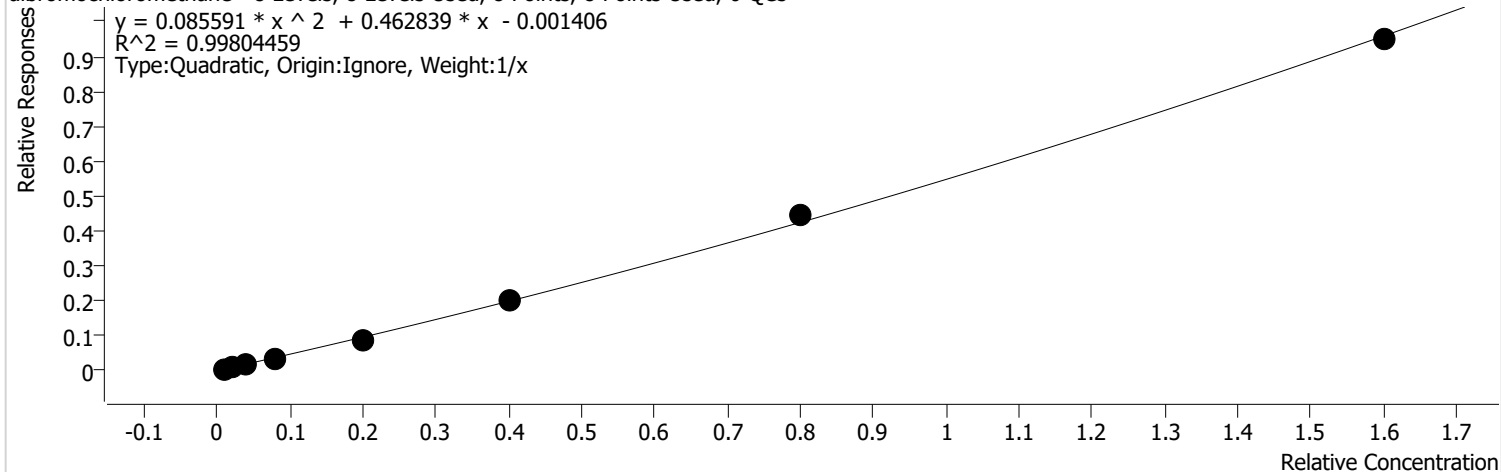
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\081524\081555.D	Calibration	1	x	8435	0.5000	0.6223	
D:\GC-19\Data\081524\081556.D	Calibration	2	x	18511	1.2500	0.5203	
D:\GC-19\Data\081524\081557.D	Calibration	3	x	37425	2.5000	0.5238	
D:\GC-19\Data\081524\081558.D	Calibration	4	x	73890	5.0000	0.5202	
D:\GC-19\Data\081524\081559.D	Calibration	5	x	144869	12.5000	0.4077	
D:\GC-19\Data\081524\081560.D	Calibration	6	x	338049	25.0000	0.4739	
D:\GC-19\Data\081524\081561.D	Calibration	7	x	588730	50.0000	0.3886	
D:\GC-19\Data\081524\081562.D	Calibration	8	x	1217999	100.0000	0.4095	

# Calibration Report

Batch Path	D:\GC-19\Data\081524\QuantResults\voc s ical.batch.bin		
Analysis Time	8/19/2024 12:33 PM	Analyst Name	FA\GC19
Report Time	8/19/2024 12:34:03 PM	Reporter Name	FA\GC19
Last Calib Update	8/19/2024 12:17 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

**dibromochloromethane %RSE = 20.7**

dibromochloromethane - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs



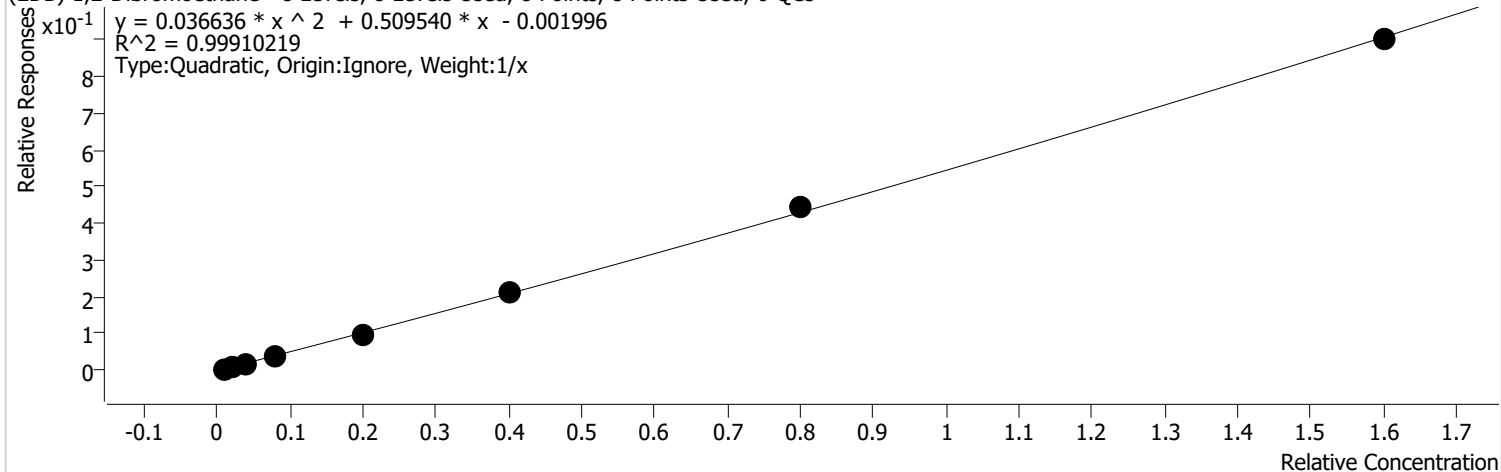
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\081524\081555.D	Calibration	1	x	2561	0.2000	0.4722	
D:\GC-19\Data\081524\081556.D	Calibration	2	x	4984	0.5000	0.3502	
D:\GC-19\Data\081524\081557.D	Calibration	3	x	10086	1.0000	0.3529	
D:\GC-19\Data\081524\081558.D	Calibration	4	x	22776	2.0000	0.4009	
D:\GC-19\Data\081524\081559.D	Calibration	5	x	61683	5.0000	0.4340	
D:\GC-19\Data\081524\081560.D	Calibration	6	x	142725	10.0000	0.5002	
D:\GC-19\Data\081524\081561.D	Calibration	7	x	337776	20.0000	0.5574	
D:\GC-19\Data\081524\081562.D	Calibration	8	x	704764	40.0000	0.5923	

# Calibration Report

Batch Path	D:\GC-19\Data\081524\QuantResults\vo c s ical.batch.bin		
Analysis Time	8/19/2024 12:33 PM	Analyst Name	FA\GC19
Report Time	8/19/2024 12:34:03 PM	Reporter Name	FA\GC19
Last Calib Update	8/19/2024 12:17 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

**(EDB) 1,2-Dibromoethane %RSE = 11.7**

(EDB) 1,2-Dibromoethane - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs

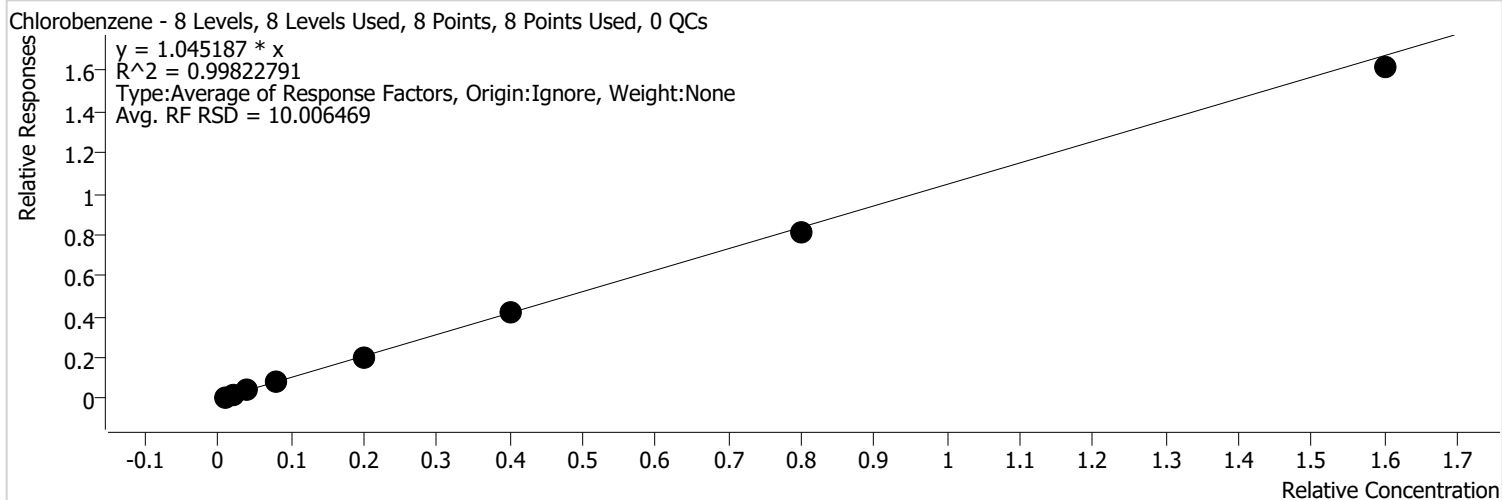


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\081524\081555.D	Calibration	1	x	1977	0.2000	0.3646	
D:\GC-19\Data\081524\081556.D	Calibration	2	x	5896	0.5000	0.4143	
D:\GC-19\Data\081524\081557.D	Calibration	3	x	11125	1.0000	0.3893	
D:\GC-19\Data\081524\081558.D	Calibration	4	x	26038	2.0000	0.4583	
D:\GC-19\Data\081524\081559.D	Calibration	5	x	68423	5.0000	0.4814	
D:\GC-19\Data\081524\081560.D	Calibration	6	x	149515	10.0000	0.5240	
D:\GC-19\Data\081524\081561.D	Calibration	7	x	335790	20.0000	0.5542	
D:\GC-19\Data\081524\081562.D	Calibration	8	x	669503	40.0000	0.5627	

# Calibration Report

Batch Path	D:\GC-19\Data\081524\QuantResults\voc s ical.batch.bin		
Analysis Time	8/19/2024 12:33 PM	Analyst Name	FA\GC19
Report Time	8/19/2024 12:34:03 PM	Reporter Name	FA\GC19
Last Calib Update	8/19/2024 12:17 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

**Chlorobenzene %RSE = 10.0**

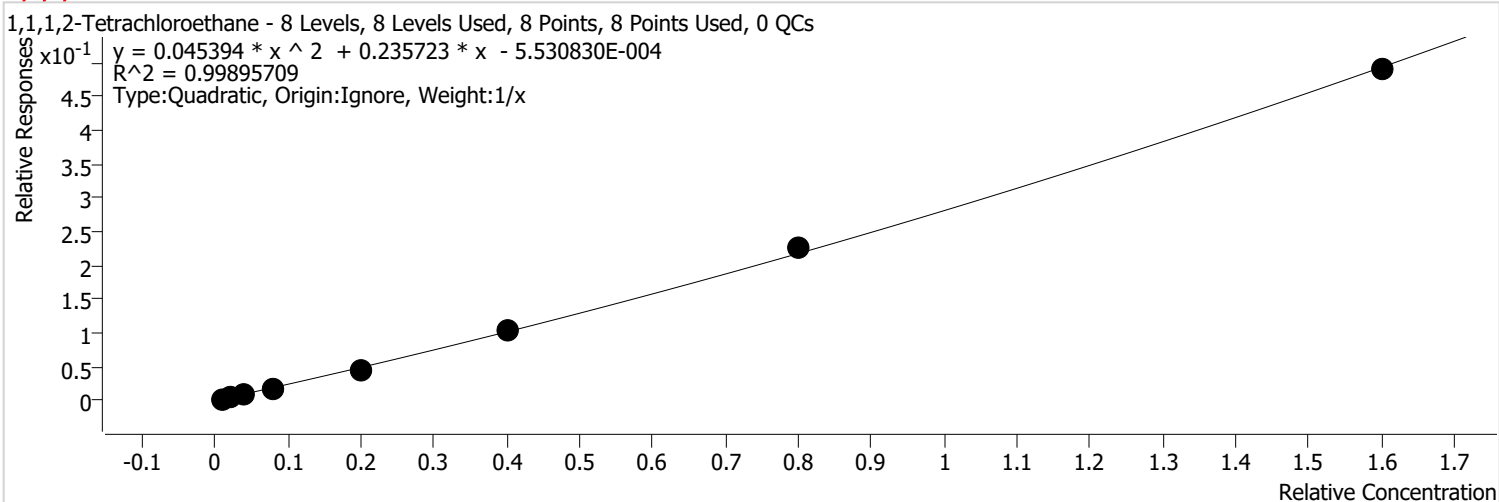


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\081524\081555.D	Calibration	1	x	18178	0.2000	1.2997	
D:\GC-19\Data\081524\081556.D	Calibration	2	x	35662	0.5000	0.9891	
D:\GC-19\Data\081524\081557.D	Calibration	3	x	70152	1.0000	0.9785	
D:\GC-19\Data\081524\081558.D	Calibration	4	x	146951	2.0000	1.0154	
D:\GC-19\Data\081524\081559.D	Calibration	5	x	361534	5.0000	1.0079	
D:\GC-19\Data\081524\081560.D	Calibration	6	x	751862	10.0000	1.0409	
D:\GC-19\Data\081524\081561.D	Calibration	7	x	1561451	20.0000	1.0218	
D:\GC-19\Data\081524\081562.D	Calibration	8	x	2909009	40.0000	1.0082	

# Calibration Report

Batch Path	D:\GC-19\Data\081524\QuantResults\voc s ical.batch.bin		
Analysis Time	8/19/2024 12:33 PM	Analyst Name	FA\GC19
Report Time	8/19/2024 12:34:03 PM	Reporter Name	FA\GC19
Last Calib Update	8/19/2024 12:17 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

**1,1,1,2-Tetrachloroethane %RSE = 17.0**



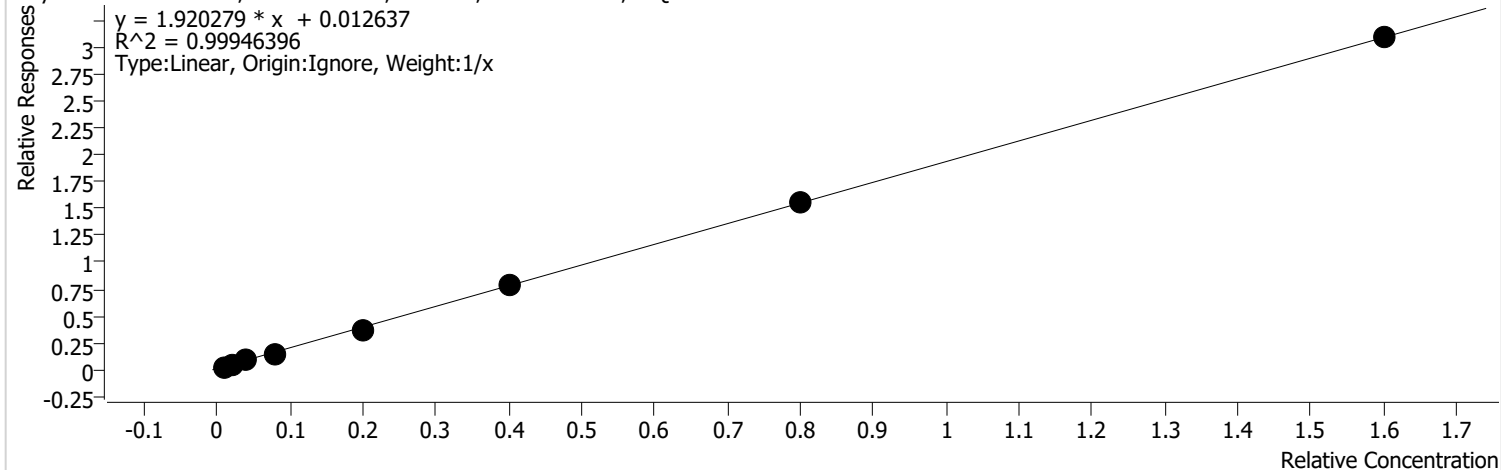
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\081524\081555.D	Calibration	1	x	3382	0.2000	0.2418	
D:\GC-19\Data\081524\081556.D	Calibration	2	x	6946	0.5000	0.1927	
D:\GC-19\Data\081524\081557.D	Calibration	3	x	12902	1.0000	0.1800	
D:\GC-19\Data\081524\081558.D	Calibration	4	x	31897	2.0000	0.2204	
D:\GC-19\Data\081524\081559.D	Calibration	5	x	82310	5.0000	0.2295	
D:\GC-19\Data\081524\081560.D	Calibration	6	x	184420	10.0000	0.2553	
D:\GC-19\Data\081524\081561.D	Calibration	7	x	428805	20.0000	0.2806	
D:\GC-19\Data\081524\081562.D	Calibration	8	x	882230	40.0000	0.3058	

# Calibration Report

Batch Path	D:\GC-19\Data\081524\QuantResults\voc s ical.batch.bin		
Analysis Time	8/19/2024 12:33 PM	Analyst Name	FA\GC19
Report Time	8/19/2024 12:34:03 PM	Reporter Name	FA\GC19
Last Calib Update	8/19/2024 12:17 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

**Ethylbenzene %RSE = 5.6**

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\081524\081555.D	Calibration	1	x	48711	0.2000	3.4828	
D:\GC-19\Data\081524\081556.D	Calibration	2	x	96149	0.5000	2.6667	
D:\GC-19\Data\081524\081557.D	Calibration	3	x	168970	1.0000	2.3568	
D:\GC-19\Data\081524\081558.D	Calibration	4	x	275267	2.0000	1.9021	
D:\GC-19\Data\081524\081559.D	Calibration	5	x	678926	5.0000	1.8927	
D:\GC-19\Data\081524\081560.D	Calibration	6	x	1432477	10.0000	1.9832	
D:\GC-19\Data\081524\081561.D	Calibration	7	x	2987529	20.0000	1.9549	
D:\GC-19\Data\081524\081562.D	Calibration	8	x	5558973	40.0000	1.9267	

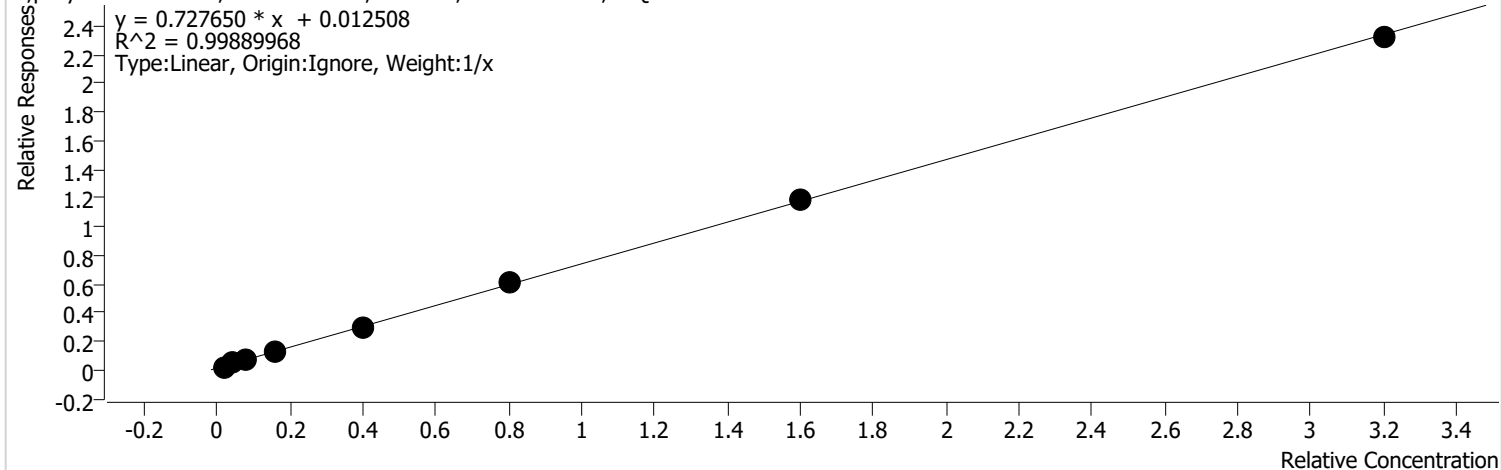


# Calibration Report

Batch Path	D:\GC-19\Data\081524\QuantResults\vo c s ical.batch.bin		
Analysis Time	8/19/2024 12:33 PM	Analyst Name	FA\GC19
Report Time	8/19/2024 12:34:03 PM	Reporter Name	FA\GC19
Last Calib Update	8/19/2024 12:17 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

**m,p-Xylene %RSE = 14.9**

m,p-Xylene - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs



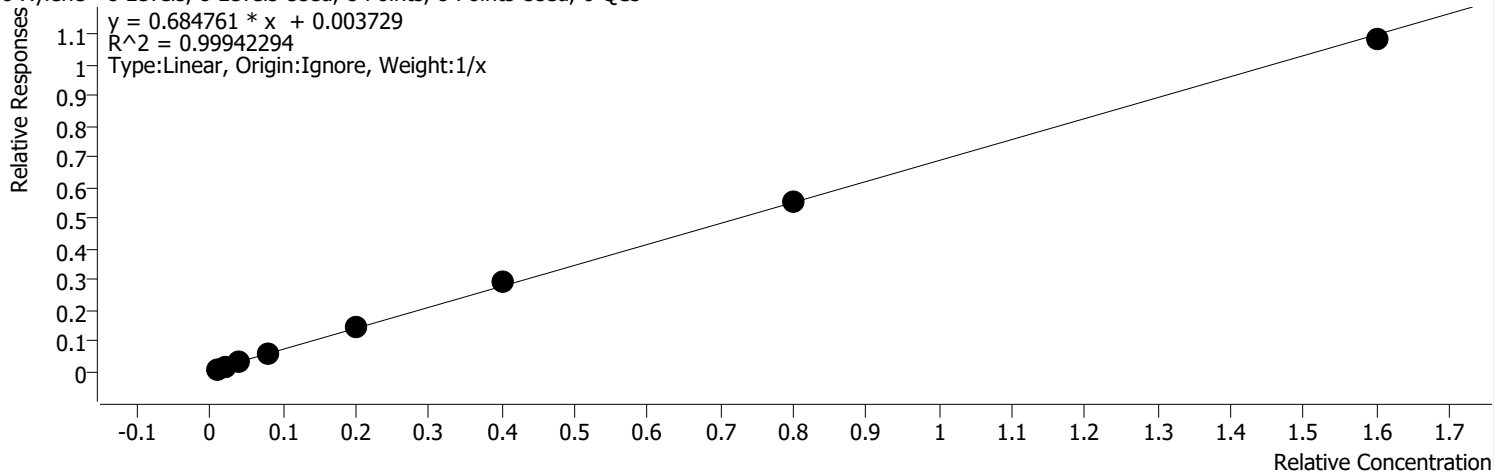
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\081524\081555.D	Calibration	1	x	36879	0.4000	1.3184	
D:\GC-19\Data\081524\081556.D	Calibration	2	x	84372	1.0000	1.1700	
D:\GC-19\Data\081524\081557.D	Calibration	3	x	143259	2.0000	0.9991	
D:\GC-19\Data\081524\081558.D	Calibration	4	x	217006	4.0000	0.7498	
D:\GC-19\Data\081524\081559.D	Calibration	5	x	534416	10.0000	0.7449	
D:\GC-19\Data\081524\081560.D	Calibration	6	x	1094879	20.0000	0.7579	
D:\GC-19\Data\081524\081561.D	Calibration	7	x	2273837	40.0000	0.7440	
D:\GC-19\Data\081524\081562.D	Calibration	8	x	4181647	80.0000	0.7247	

# Calibration Report

Batch Path	D:\GC-19\Data\081524\QuantResults\vo c s ical.batch.bin		
Analysis Time	8/19/2024 12:33 PM	Analyst Name	FA\GC19
Report Time	8/19/2024 12:34:03 PM	Reporter Name	FA\GC19
Last Calib Update	8/19/2024 12:17 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

**o-Xylene %RSE = 6.4**

o-Xylene - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs



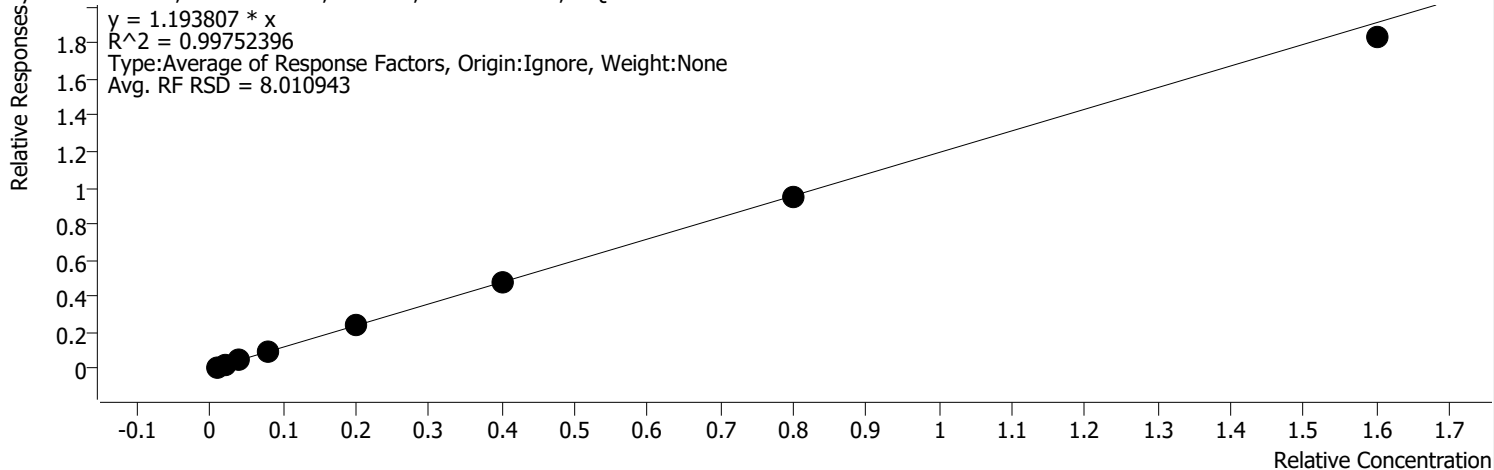
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\081524\081555.D	Calibration	1	x	14897	0.2000	1.0651	
D:\GC-19\Data\081524\081556.D	Calibration	2	x	32372	0.5000	0.8978	
D:\GC-19\Data\081524\081557.D	Calibration	3	x	58972	1.0000	0.8225	
D:\GC-19\Data\081524\081558.D	Calibration	4	x	103665	2.0000	0.7163	
D:\GC-19\Data\081524\081559.D	Calibration	5	x	254014	5.0000	0.7082	
D:\GC-19\Data\081524\081560.D	Calibration	6	x	524742	10.0000	0.7265	
D:\GC-19\Data\081524\081561.D	Calibration	7	x	1057920	20.0000	0.6923	
D:\GC-19\Data\081524\081562.D	Calibration	8	x	1952470	40.0000	0.6767	

# Calibration Report

Batch Path	D:\GC-19\Data\081524\QuantResults\voc s ical.batch.bin		
Analysis Time	8/19/2024 12:33 PM	Analyst Name	FA\GC19
Report Time	8/19/2024 12:34:03 PM	Reporter Name	FA\GC19
Last Calib Update	8/19/2024 12:17 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

**Styrene %RSE = 8.0**

Styrene - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs



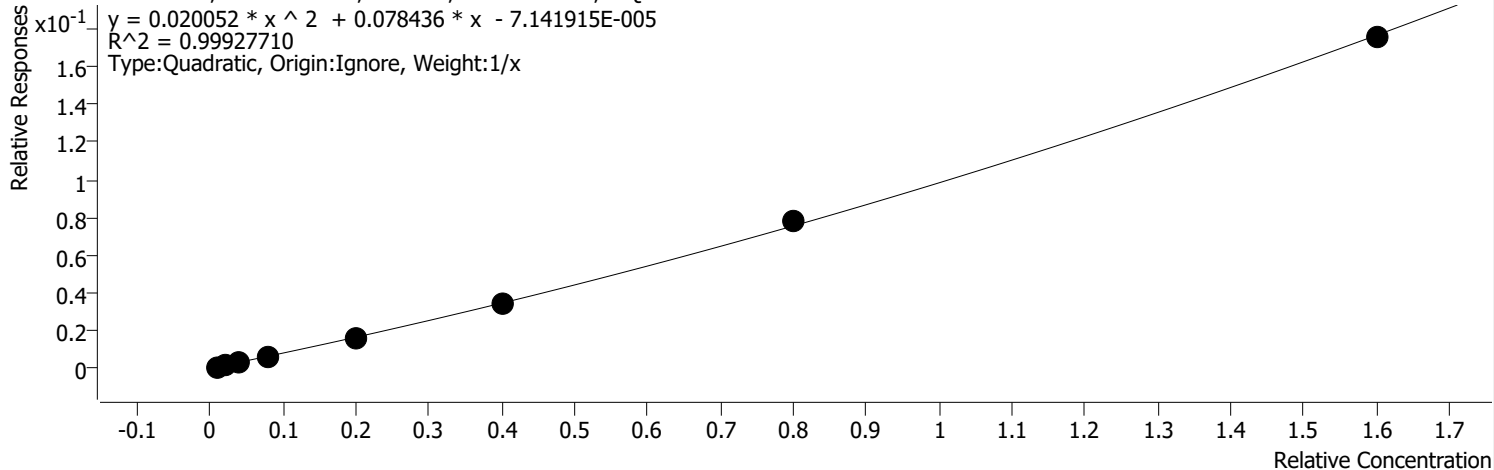
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\081524\081555.D	Calibration	1	x	19770	0.2000	1.4135	
D:\GC-19\Data\081524\081556.D	Calibration	2	x	40101	0.5000	1.1122	
D:\GC-19\Data\081524\081557.D	Calibration	3	x	80308	1.0000	1.1201	
D:\GC-19\Data\081524\081558.D	Calibration	4	x	169519	2.0000	1.1714	
D:\GC-19\Data\081524\081559.D	Calibration	5	x	431870	5.0000	1.2040	
D:\GC-19\Data\081524\081560.D	Calibration	6	x	871712	10.0000	1.2069	
D:\GC-19\Data\081524\081561.D	Calibration	7	x	1803989	20.0000	1.1805	
D:\GC-19\Data\081524\081562.D	Calibration	8	x	3294657	40.0000	1.1419	

# Calibration Report

Batch Path	D:\GC-19\Data\081524\QuantResults\voc s ical.batch.bin		
Analysis Time	8/19/2024 12:33 PM	Analyst Name	FA\GC19
Report Time	8/19/2024 12:34:03 PM	Reporter Name	FA\GC19
Last Calib Update	8/19/2024 12:17 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

**Bromoform %RSE = 10.9**

Bromoform - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs

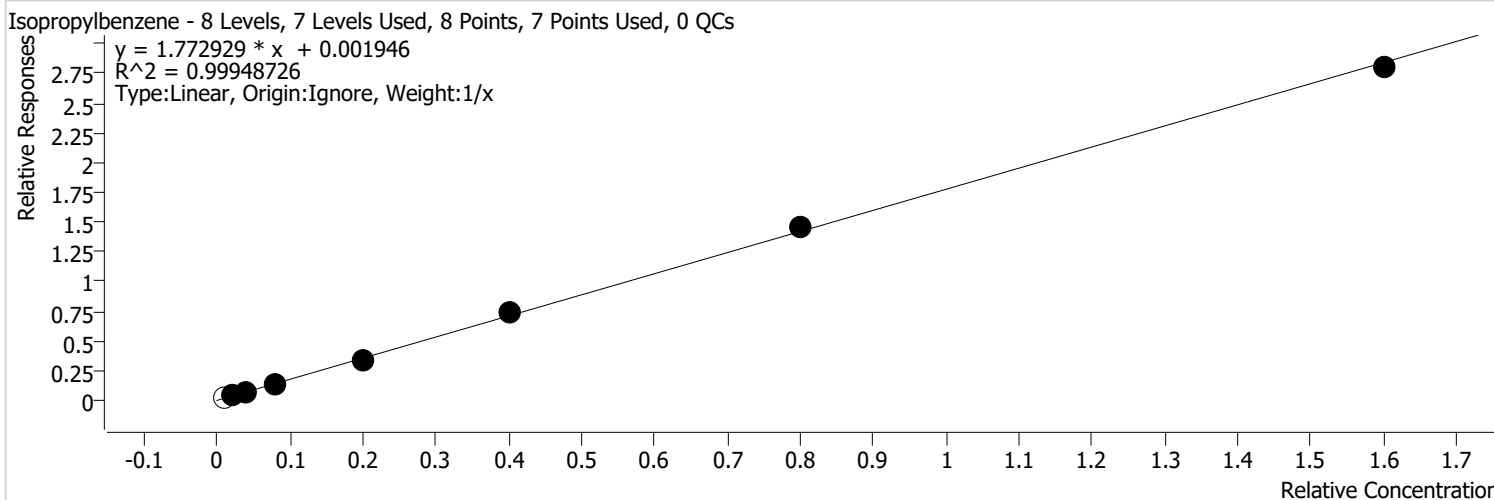


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\081524\081555.D	Calibration	1	x	1207	0.2000	0.0863	
D:\GC-19\Data\081524\081556.D	Calibration	2	x	2593	0.5000	0.0719	
D:\GC-19\Data\081524\081557.D	Calibration	3	x	5079	1.0000	0.0708	
D:\GC-19\Data\081524\081558.D	Calibration	4	x	10731	2.0000	0.0742	
D:\GC-19\Data\081524\081559.D	Calibration	5	x	28161	5.0000	0.0785	
D:\GC-19\Data\081524\081560.D	Calibration	6	x	61572	10.0000	0.0852	
D:\GC-19\Data\081524\081561.D	Calibration	7	x	150006	20.0000	0.0982	
D:\GC-19\Data\081524\081562.D	Calibration	8	x	316421	40.0000	0.1097	

# Calibration Report

Batch Path	D:\GC-19\Data\081524\QuantResults\voc s ical.batch.bin		
Analysis Time	8/19/2024 12:33 PM	Analyst Name	FA\GC19
Report Time	8/19/2024 12:34:03 PM	Reporter Name	FA\GC19
Last Calib Update	8/19/2024 12:17 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

**Isopropylbenzene %RSE = 3.1**

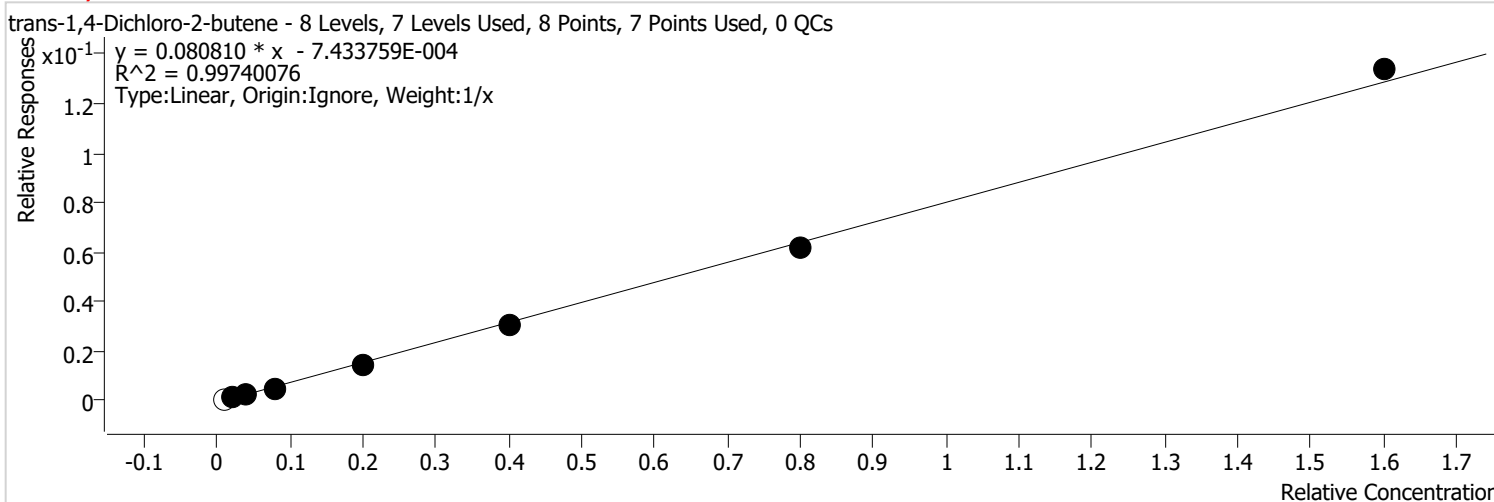


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\081524\081555.D	Calibration	1		56139	0.2000	4.0138	
D:\GC-19\Data\081524\081556.D	Calibration	2	x	69609	0.5000	1.9306	
D:\GC-19\Data\081524\081557.D	Calibration	3	x	125678	1.0000	1.7529	
D:\GC-19\Data\081524\081558.D	Calibration	4	x	257654	2.0000	1.7804	
D:\GC-19\Data\081524\081559.D	Calibration	5	x	625149	5.0000	1.7428	
D:\GC-19\Data\081524\081560.D	Calibration	6	x	1319045	10.0000	1.8262	
D:\GC-19\Data\081524\081561.D	Calibration	7	x	2779908	20.0000	1.8191	
D:\GC-19\Data\081524\081562.D	Calibration	8	x	5040444	40.0000	1.7470	

# Calibration Report

Batch Path	D:\GC-19\Data\081524\QuantResults\voc s ical.batch.bin		
Analysis Time	8/19/2024 12:33 PM	Analyst Name	FA\GC19
Report Time	8/19/2024 12:34:03 PM	Reporter Name	FA\GC19
Last Calib Update	8/19/2024 12:17 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

**trans-1,4-Dichloro-2-butene %RSE = 10.0**

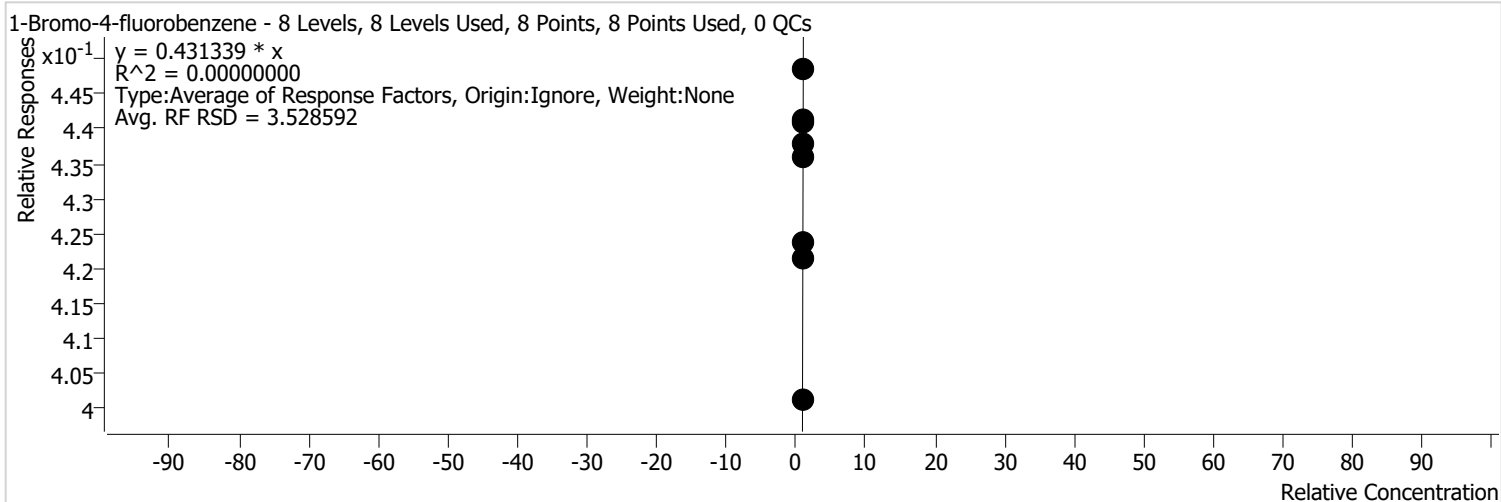


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\081524\081555.D	Calibration	1		1324	0.2000	0.0947	
D:\GC-19\Data\081524\081556.D	Calibration	2	x	2071	0.5000	0.0574	
D:\GC-19\Data\081524\081557.D	Calibration	3	x	4672	1.0000	0.0652	
D:\GC-19\Data\081524\081558.D	Calibration	4	x	9468	2.0000	0.0654	
D:\GC-19\Data\081524\081559.D	Calibration	5	x	24901	5.0000	0.0694	
D:\GC-19\Data\081524\081560.D	Calibration	6	x	54343	10.0000	0.0752	
D:\GC-19\Data\081524\081561.D	Calibration	7	x	118414	20.0000	0.0775	
D:\GC-19\Data\081524\081562.D	Calibration	8	x	240889	40.0000	0.0835	

# Calibration Report

<b>Batch Path</b>	D:\GC-19\Data\081524\QuantResults\voc s ical.batch.bin	<b>Analyst Name</b>	FA\GC19
<b>Analysis Time</b>	8/19/2024 12:33 PM	<b>Reporter Name</b>	FA\GC19
<b>Report Time</b>	8/19/2024 12:34:03 PM	<b>Batch State</b>	Processed
<b>Last Calib Update</b>	8/19/2024 12:17 PM	<b>Quant Report Version</b>	10.0
<b>Quant Batch Version</b>	10.0		

**1-Bromo-4-fluorobenzene %RSE =**

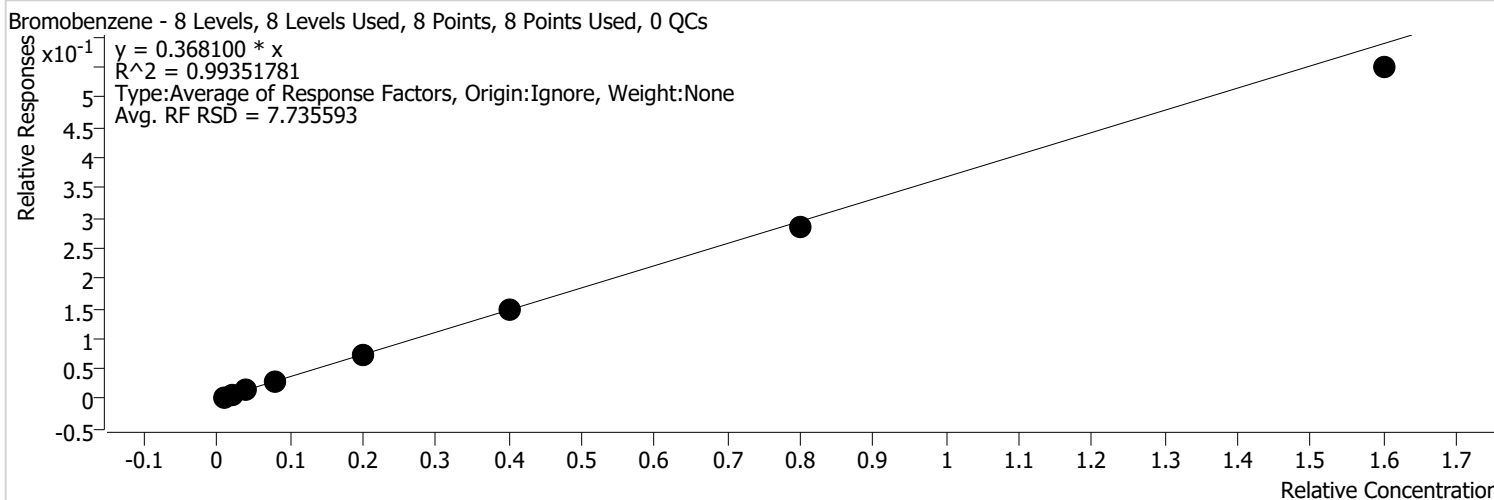


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\081524\081562.D	Calibration	8	x	723363	25.0000	0.4011	
D:\GC-19\Data\081524\081561.D	Calibration	7	x	809333	25.0000	0.4237	
D:\GC-19\Data\081524\081560.D	Calibration	6	x	760818	25.0000	0.4213	
D:\GC-19\Data\081524\081559.D	Calibration	5	x	781600	25.0000	0.4358	
D:\GC-19\Data\081524\081558.D	Calibration	4	x	792342	25.0000	0.4380	
D:\GC-19\Data\081524\081557.D	Calibration	3	x	790223	25.0000	0.4409	
D:\GC-19\Data\081524\081556.D	Calibration	2	x	795683	25.0000	0.4414	
D:\GC-19\Data\081524\081555.D	Calibration	1	x	784130	25.0000	0.4485	

# Calibration Report

Batch Path	D:\GC-19\Data\081524\QuantResults\voc s ical.batch.bin		
Analysis Time	8/19/2024 12:33 PM	Analyst Name	FA\GC19
Report Time	8/19/2024 12:34:03 PM	Reporter Name	FA\GC19
Last Calib Update	8/19/2024 12:17 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

**Bromobenzene %RSE = 7.7**



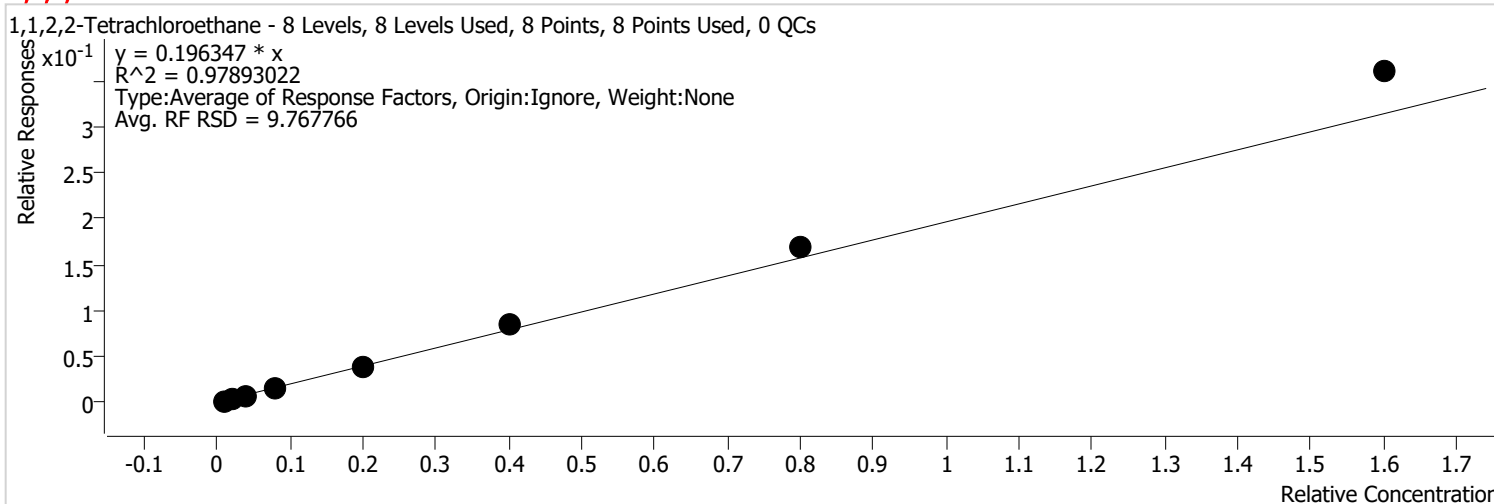
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\081524\081555.D	Calibration	1	x	6086	0.2000	0.4351	
D:\GC-19\Data\081524\081556.D	Calibration	2	x	12690	0.5000	0.3520	
D:\GC-19\Data\081524\081557.D	Calibration	3	x	25720	1.0000	0.3587	
D:\GC-19\Data\081524\081558.D	Calibration	4	x	53742	2.0000	0.3714	
D:\GC-19\Data\081524\081559.D	Calibration	5	x	128621	5.0000	0.3586	
D:\GC-19\Data\081524\081560.D	Calibration	6	x	266064	10.0000	0.3684	
D:\GC-19\Data\081524\081561.D	Calibration	7	x	546395	20.0000	0.3575	
D:\GC-19\Data\081524\081562.D	Calibration	8	x	990056	40.0000	0.3431	



# Calibration Report

Batch Path	D:\GC-19\Data\081524\QuantResults\voc s ical.batch.bin		
Analysis Time	8/19/2024 12:33 PM	Analyst Name	FA\GC19
Report Time	8/19/2024 12:34:03 PM	Reporter Name	FA\GC19
Last Calib Update	8/19/2024 12:17 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

**1,1,2,2-Tetrachloroethane %RSE = 9.8**

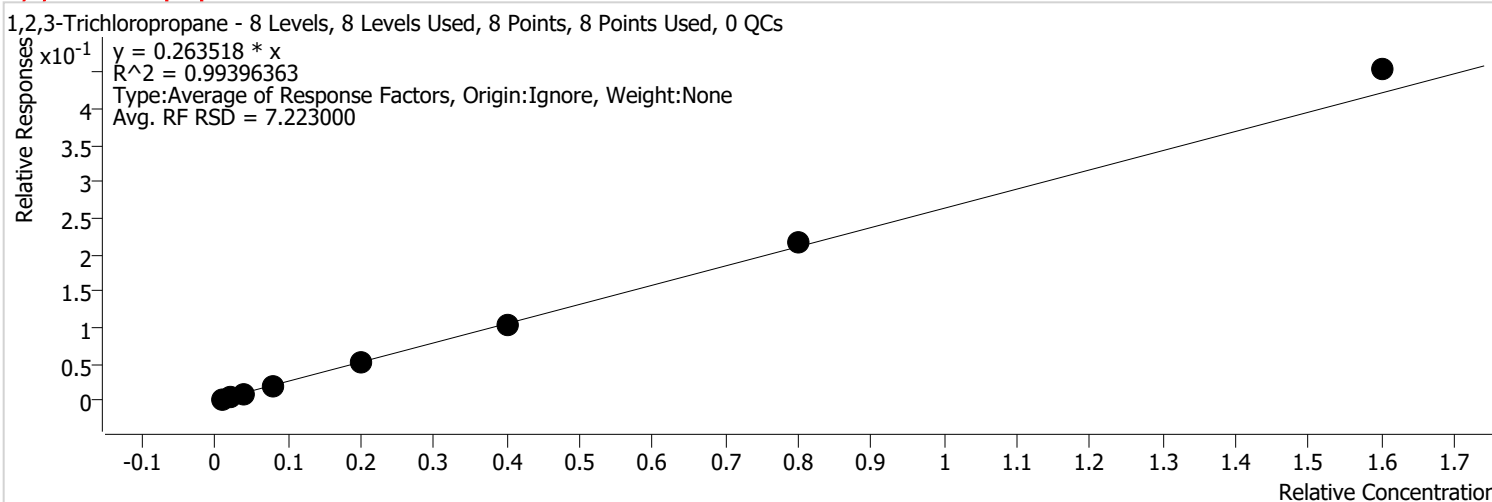


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\081524\081555.D	Calibration	1	x	2319	0.2000	0.1658	
D:\GC-19\Data\081524\081556.D	Calibration	2	x	6802	0.5000	0.1886	
D:\GC-19\Data\081524\081557.D	Calibration	3	x	12923	1.0000	0.1802	
D:\GC-19\Data\081524\081558.D	Calibration	4	x	27873	2.0000	0.1926	
D:\GC-19\Data\081524\081559.D	Calibration	5	x	69833	5.0000	0.1947	
D:\GC-19\Data\081524\081560.D	Calibration	6	x	152595	10.0000	0.2113	
D:\GC-19\Data\081524\081561.D	Calibration	7	x	324786	20.0000	0.2125	
D:\GC-19\Data\081524\081562.D	Calibration	8	x	649197	40.0000	0.2250	

# Calibration Report

Batch Path	D:\GC-19\Data\081524\QuantResults\voc s ical.batch.bin		
Analysis Time	8/19/2024 12:33 PM	Analyst Name	FA\GC19
Report Time	8/19/2024 12:34:03 PM	Reporter Name	FA\GC19
Last Calib Update	8/19/2024 12:17 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

**1,2,3-Trichloropropane %RSE = 7.2**



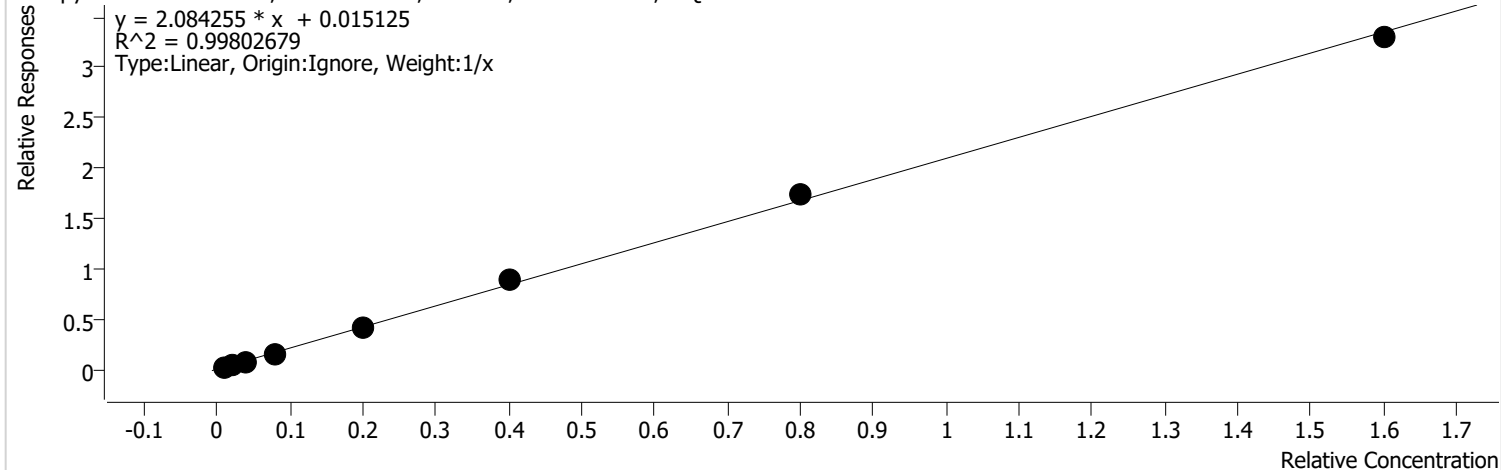
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\081524\081555.D	Calibration	1	x	4126	0.2000	0.2950	
D:\GC-19\Data\081524\081556.D	Calibration	2	x	8606	0.5000	0.2387	
D:\GC-19\Data\081524\081557.D	Calibration	3	x	17934	1.0000	0.2501	
D:\GC-19\Data\081524\081558.D	Calibration	4	x	35620	2.0000	0.2461	
D:\GC-19\Data\081524\081559.D	Calibration	5	x	94010	5.0000	0.2621	
D:\GC-19\Data\081524\081560.D	Calibration	6	x	189415	10.0000	0.2622	
D:\GC-19\Data\081524\081561.D	Calibration	7	x	413281	20.0000	0.2704	
D:\GC-19\Data\081524\081562.D	Calibration	8	x	817711	40.0000	0.2834	

# Calibration Report

Batch Path	D:\GC-19\Data\081524\QuantResults\voc s ical.batch.bin		
Analysis Time	8/19/2024 12:33 PM	Analyst Name	FA\GC19
Report Time	8/19/2024 12:34:03 PM	Reporter Name	FA\GC19
Last Calib Update	8/19/2024 12:17 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

**n-Propylbenzene %RSE = 18.4**

n-Propylbenzene - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs



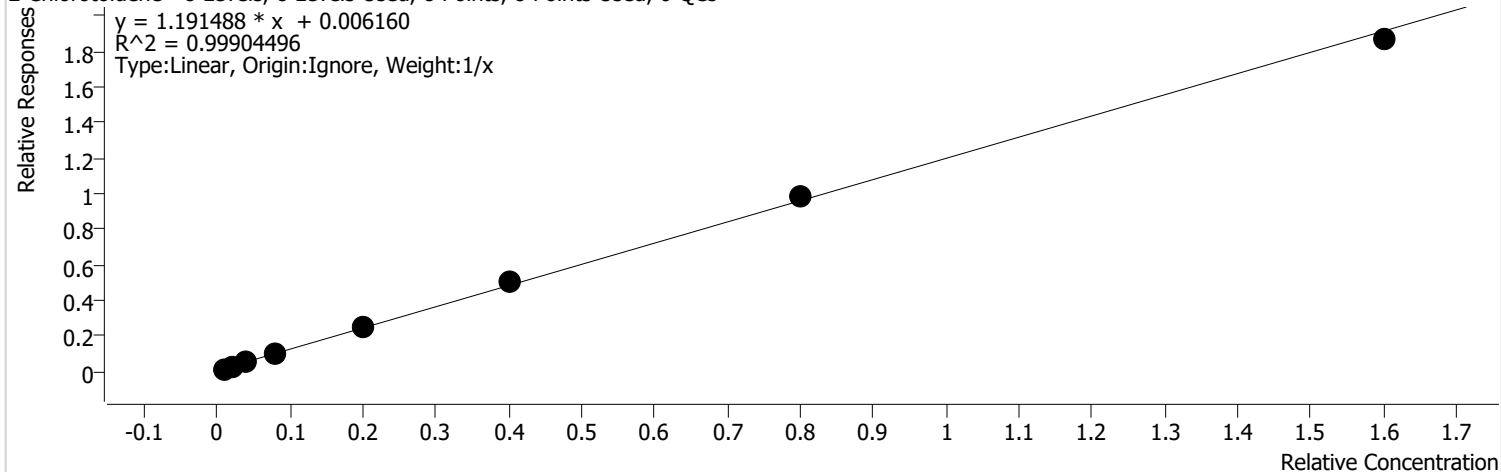
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\081524\081555.D	Calibration	1	x	66375	0.2000	4.7457	
D:\GC-19\Data\081524\081556.D	Calibration	2	x	86734	0.5000	2.4056	
D:\GC-19\Data\081524\081557.D	Calibration	3	x	160911	1.0000	2.2443	
D:\GC-19\Data\081524\081558.D	Calibration	4	x	305203	2.0000	2.1090	
D:\GC-19\Data\081524\081559.D	Calibration	5	x	742277	5.0000	2.0694	
D:\GC-19\Data\081524\081560.D	Calibration	6	x	1602846	10.0000	2.2191	
D:\GC-19\Data\081524\081561.D	Calibration	7	x	3329312	20.0000	2.1786	
D:\GC-19\Data\081524\081562.D	Calibration	8	x	5938709	40.0000	2.0583	

# Calibration Report

Batch Path	D:\GC-19\Data\081524\QuantResults\voc s ical.batch.bin		
Analysis Time	8/19/2024 12:33 PM	Analyst Name	FA\GC19
Report Time	8/19/2024 12:34:03 PM	Reporter Name	FA\GC19
Last Calib Update	8/19/2024 12:17 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

## 2-Chlorotoluene %RSE = 5.5

2-Chlorotoluene - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs

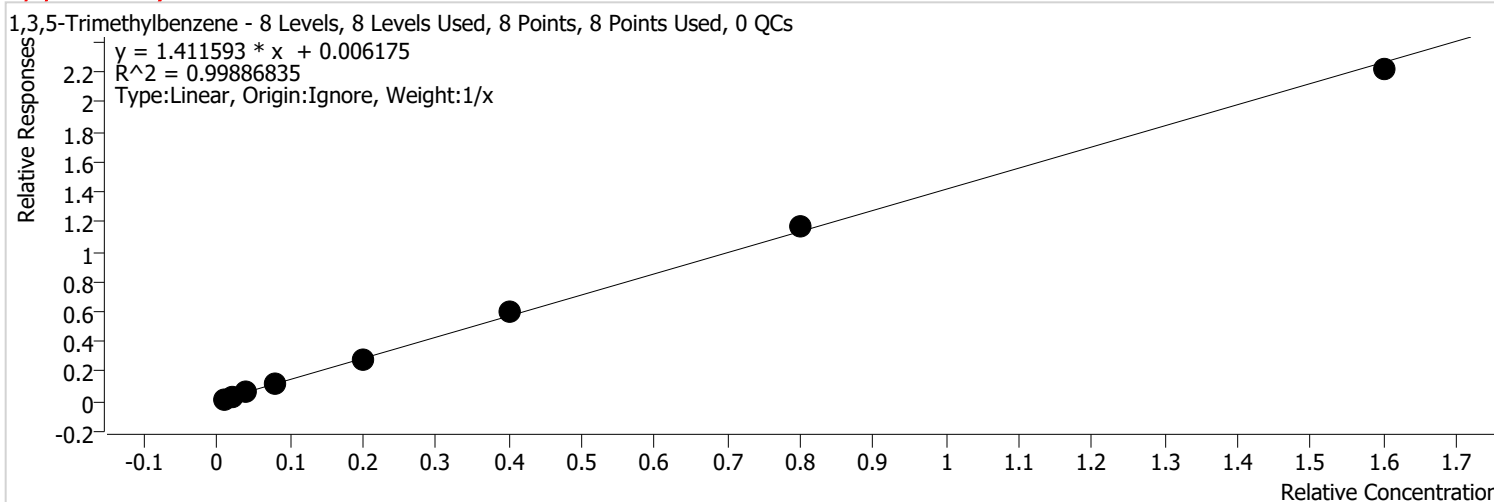


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\081524\081555.D	Calibration	1	x	26259	0.2000	1.8775	
D:\GC-19\Data\081524\081556.D	Calibration	2	x	51252	0.5000	1.4215	
D:\GC-19\Data\081524\081557.D	Calibration	3	x	102373	1.0000	1.4279	
D:\GC-19\Data\081524\081558.D	Calibration	4	x	183729	2.0000	1.2696	
D:\GC-19\Data\081524\081559.D	Calibration	5	x	448023	5.0000	1.2490	
D:\GC-19\Data\081524\081560.D	Calibration	6	x	914512	10.0000	1.2661	
D:\GC-19\Data\081524\081561.D	Calibration	7	x	1867491	20.0000	1.2220	
D:\GC-19\Data\081524\081562.D	Calibration	8	x	3361458	40.0000	1.1651	

# Calibration Report

Batch Path	D:\GC-19\Data\081524\QuantResults\voc s ical.batch.bin		
Analysis Time	8/19/2024 12:33 PM	Analyst Name	FA\GC19
Report Time	8/19/2024 12:34:03 PM	Reporter Name	FA\GC19
Last Calib Update	8/19/2024 12:17 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

**1,3,5-Trimethylbenzene %RSE = 6.8**



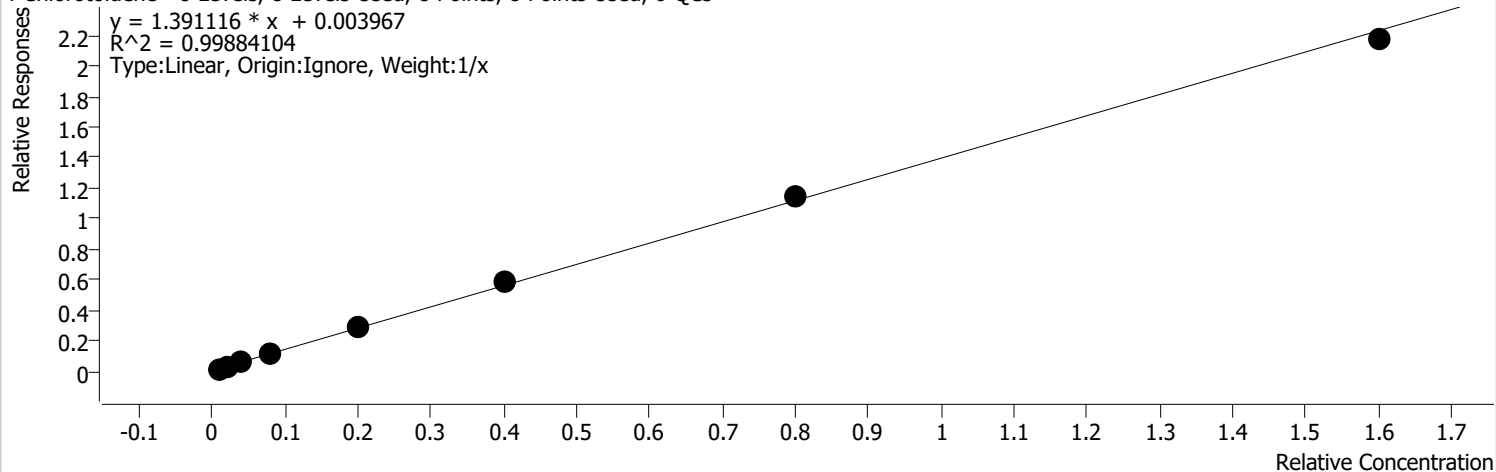
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\081524\081555.D	Calibration	1	x	32907	0.2000	2.3528	
D:\GC-19\Data\081524\081556.D	Calibration	2	x	58786	0.5000	1.6304	
D:\GC-19\Data\081524\081557.D	Calibration	3	x	109593	1.0000	1.5286	
D:\GC-19\Data\081524\081558.D	Calibration	4	x	202712	2.0000	1.4008	
D:\GC-19\Data\081524\081559.D	Calibration	5	x	504448	5.0000	1.4063	
D:\GC-19\Data\081524\081560.D	Calibration	6	x	1075636	10.0000	1.4892	
D:\GC-19\Data\081524\081561.D	Calibration	7	x	2246608	20.0000	1.4701	
D:\GC-19\Data\081524\081562.D	Calibration	8	x	3995049	40.0000	1.3847	

# Calibration Report

Batch Path	D:\GC-19\Data\081524\QuantResults\voc s ical.batch.bin		
Analysis Time	8/19/2024 12:33 PM	Analyst Name	FA\GC19
Report Time	8/19/2024 12:34:03 PM	Reporter Name	FA\GC19
Last Calib Update	8/19/2024 12:17 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

**4-Chlorotoluene %RSE = 6.3**

4-Chlorotoluene - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs

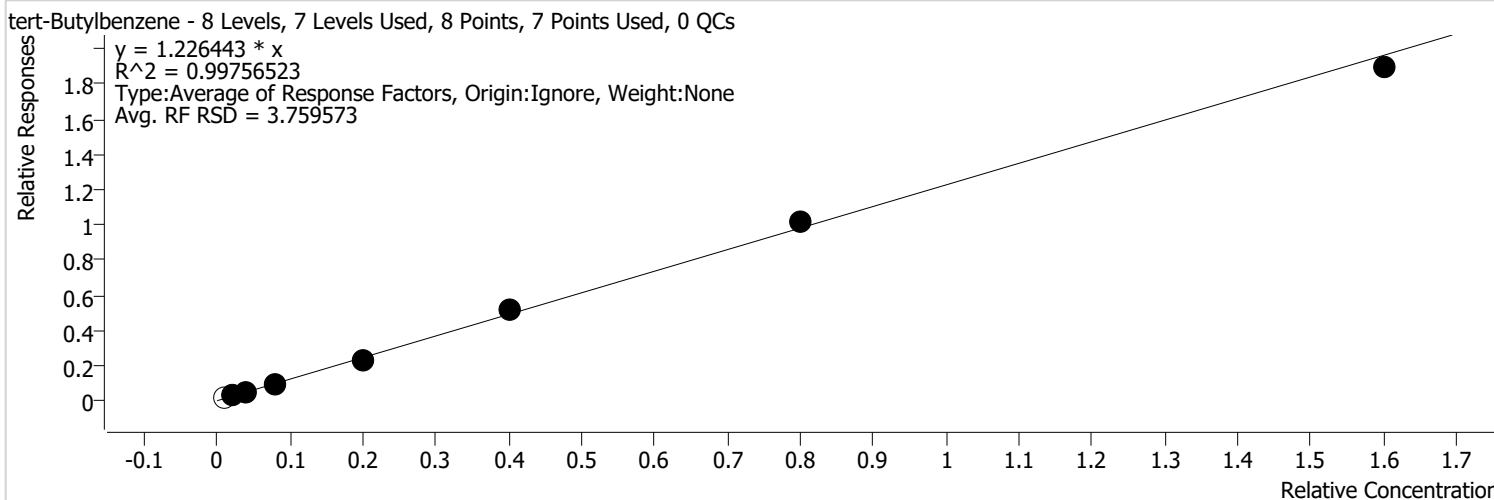


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\081524\081555.D	Calibration	1	x	27634	0.2000	1.9758	
D:\GC-19\Data\081524\081556.D	Calibration	2	x	52427	0.5000	1.4541	
D:\GC-19\Data\081524\081557.D	Calibration	3	x	100122	1.0000	1.3965	
D:\GC-19\Data\081524\081558.D	Calibration	4	x	212851	2.0000	1.4708	
D:\GC-19\Data\081524\081559.D	Calibration	5	x	520873	5.0000	1.4521	
D:\GC-19\Data\081524\081560.D	Calibration	6	x	1067479	10.0000	1.4779	
D:\GC-19\Data\081524\081561.D	Calibration	7	x	2178201	20.0000	1.4253	
D:\GC-19\Data\081524\081562.D	Calibration	8	x	3914384	40.0000	1.3567	

# Calibration Report

Batch Path	D:\GC-19\Data\081524\QuantResults\voc s ical.batch.bin		
Analysis Time	8/19/2024 12:33 PM	Analyst Name	FA\GC19
Report Time	8/19/2024 12:34:03 PM	Reporter Name	FA\GC19
Last Calib Update	8/19/2024 12:17 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

**tert-Butylbenzene %RSE = 3.8**

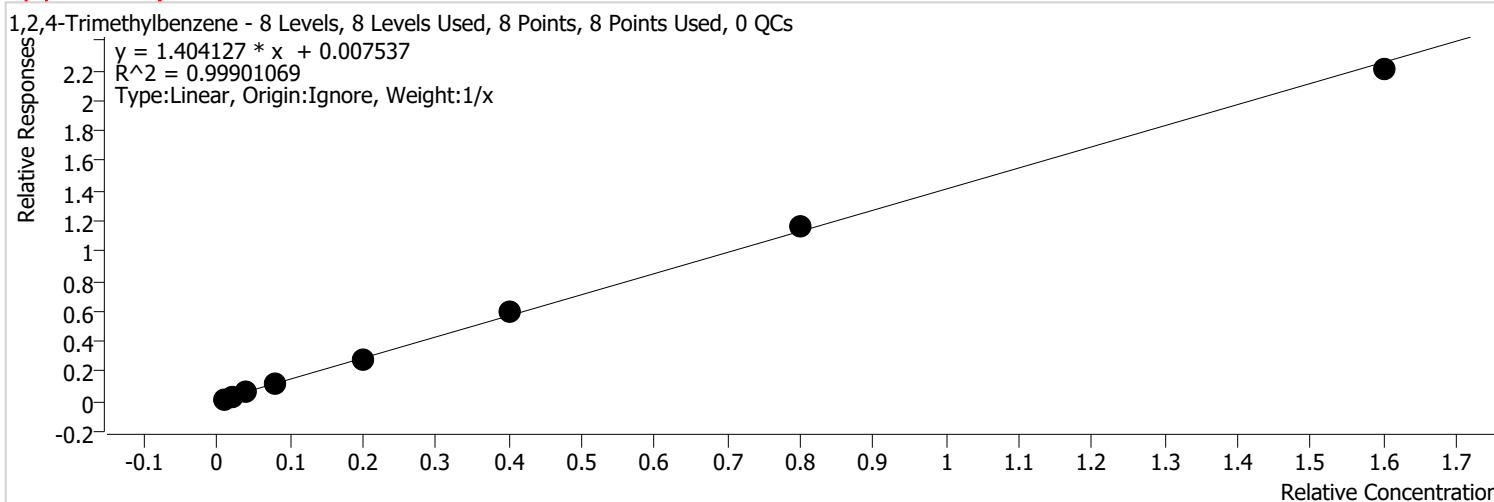


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\081524\081555.D	Calibration	1		39097	0.2000	2.7954	
D:\GC-19\Data\081524\081556.D	Calibration	2	x	45379	0.5000	1.2586	
D:\GC-19\Data\081524\081557.D	Calibration	3	x	84892	1.0000	1.1840	
D:\GC-19\Data\081524\081558.D	Calibration	4	x	176972	2.0000	1.2229	
D:\GC-19\Data\081524\081559.D	Calibration	5	x	422729	5.0000	1.1785	
D:\GC-19\Data\081524\081560.D	Calibration	6	x	929190	10.0000	1.2865	
D:\GC-19\Data\081524\081561.D	Calibration	7	x	1944056	20.0000	1.2721	
D:\GC-19\Data\081524\081562.D	Calibration	8	x	3411859	40.0000	1.1825	

# Calibration Report

Batch Path	D:\GC-19\Data\081524\QuantResults\voc s ical.batch.bin		
Analysis Time	8/19/2024 12:33 PM	Analyst Name	FA\GC19
Report Time	8/19/2024 12:34:03 PM	Reporter Name	FA\GC19
Last Calib Update	8/19/2024 12:17 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

**1,2,4-Trimethylbenzene %RSE = 6.2**



Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\081524\081555.D	Calibration	1	x	31181	0.2000	2.2294	
D:\GC-19\Data\081524\081556.D	Calibration	2	x	64393	0.5000	1.7859	
D:\GC-19\Data\081524\081557.D	Calibration	3	x	124215	1.0000	1.7325	
D:\GC-19\Data\081524\081558.D	Calibration	4	x	205239	2.0000	1.4182	
D:\GC-19\Data\081524\081559.D	Calibration	5	x	511719	5.0000	1.4266	
D:\GC-19\Data\081524\081560.D	Calibration	6	x	1071947	10.0000	1.4841	
D:\GC-19\Data\081524\081561.D	Calibration	7	x	2216984	20.0000	1.4507	
D:\GC-19\Data\081524\081562.D	Calibration	8	x	3975599	40.0000	1.3779	

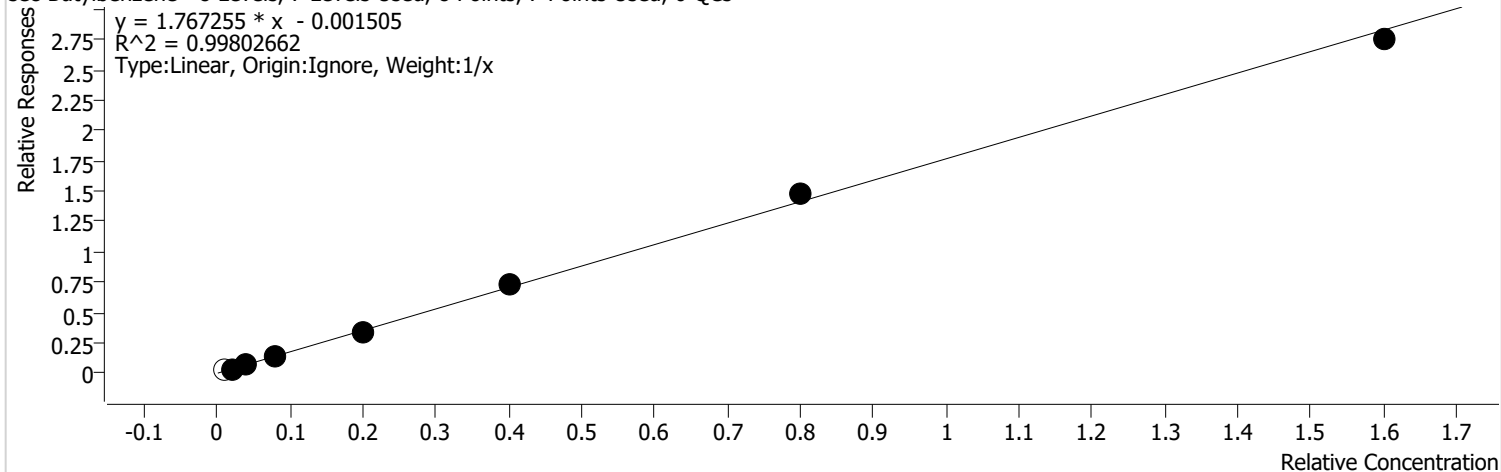


# Calibration Report

Batch Path	D:\GC-19\Data\081524\QuantResults\voc s ical.batch.bin		
Analysis Time	8/19/2024 12:33 PM	Analyst Name	FA\GC19
Report Time	8/19/2024 12:34:03 PM	Reporter Name	FA\GC19
Last Calib Update	8/19/2024 12:17 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

**sec-Butylbenzene %RSE = 5.4**

sec-Butylbenzene - 8 Levels, 7 Levels Used, 8 Points, 7 Points Used, 0 QCs

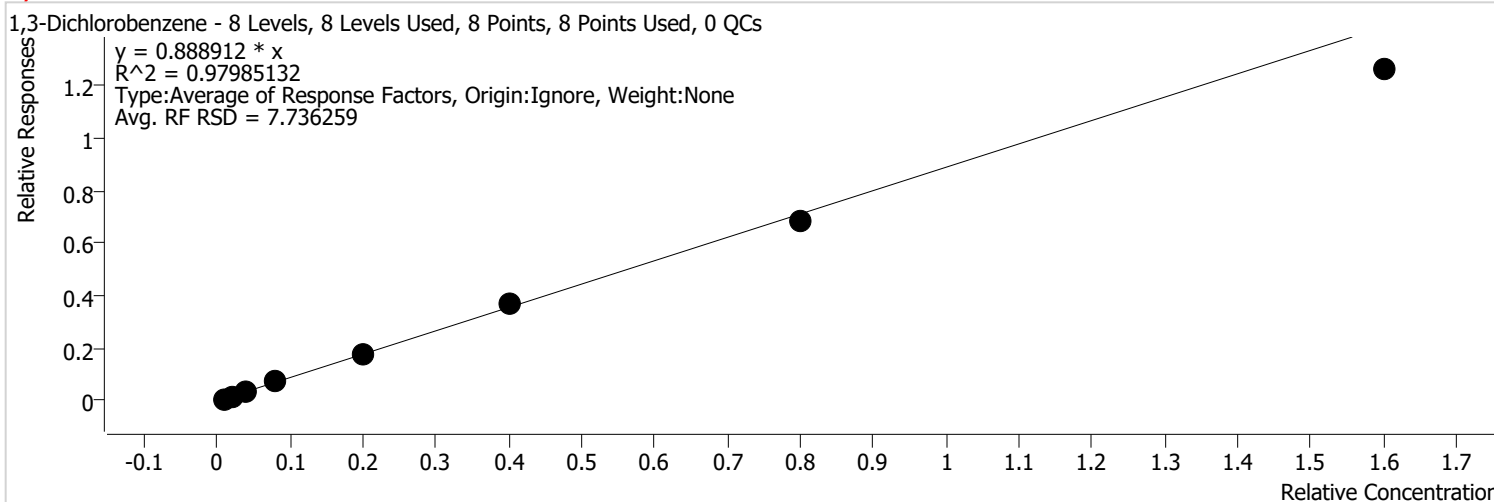


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\081524\081555.D	Calibration	1		67196	0.2000	4.8044	
D:\GC-19\Data\081524\081556.D	Calibration	2	x	64414	0.5000	1.7865	
D:\GC-19\Data\081524\081557.D	Calibration	3	x	120629	1.0000	1.6825	
D:\GC-19\Data\081524\081558.D	Calibration	4	x	242813	2.0000	1.6779	
D:\GC-19\Data\081524\081559.D	Calibration	5	x	593121	5.0000	1.6535	
D:\GC-19\Data\081524\081560.D	Calibration	6	x	1340478	10.0000	1.8559	
D:\GC-19\Data\081524\081561.D	Calibration	7	x	2830181	20.0000	1.8520	
D:\GC-19\Data\081524\081562.D	Calibration	8	x	4953169	40.0000	1.7167	

# Calibration Report

Batch Path	D:\GC-19\Data\081524\QuantResults\voc s ical.batch.bin		
Analysis Time	8/19/2024 12:33 PM	Analyst Name	FA\GC19
Report Time	8/19/2024 12:34:03 PM	Reporter Name	FA\GC19
Last Calib Update	8/19/2024 12:17 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

**1,3-Dichlorobenzene %RSE = 7.7**

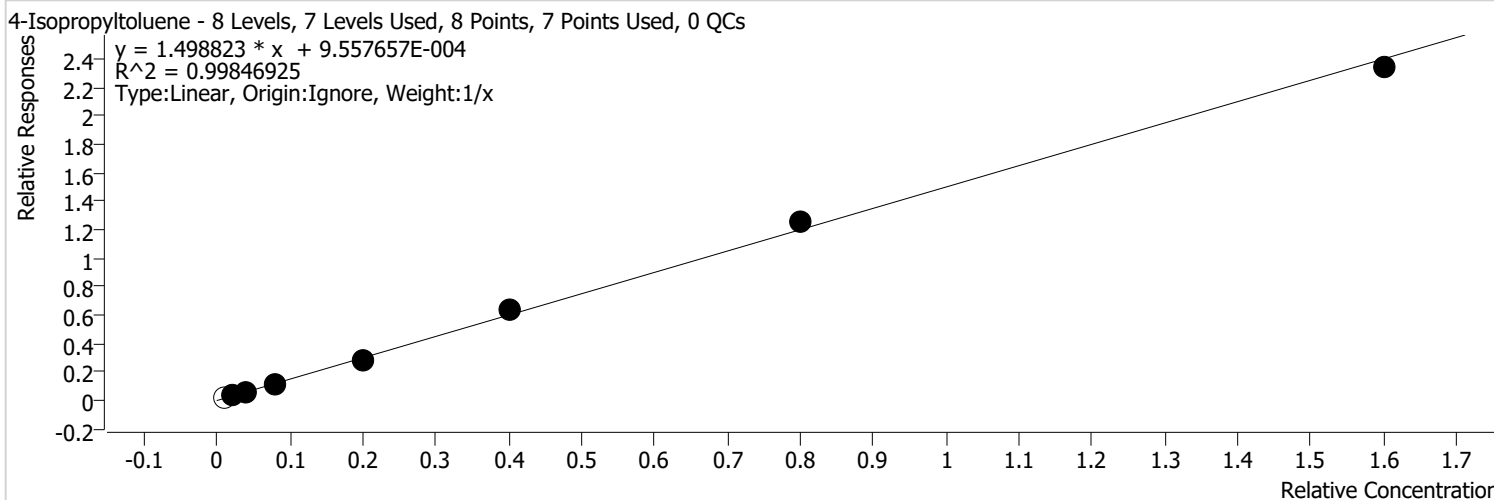


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\081524\081555.D	Calibration	1	x	11410	0.2000	1.0295	
D:\GC-19\Data\081524\081556.D	Calibration	2	x	24765	0.5000	0.8653	
D:\GC-19\Data\081524\081557.D	Calibration	3	x	49450	1.0000	0.8809	
D:\GC-19\Data\081524\081558.D	Calibration	4	x	100703	2.0000	0.8992	
D:\GC-19\Data\081524\081559.D	Calibration	5	x	252077	5.0000	0.8833	
D:\GC-19\Data\081524\081560.D	Calibration	6	x	522673	10.0000	0.9159	
D:\GC-19\Data\081524\081561.D	Calibration	7	x	1059018	20.0000	0.8499	
D:\GC-19\Data\081524\081562.D	Calibration	8	x	1860544	40.0000	0.7873	

# Calibration Report

Batch Path	D:\GC-19\Data\081524\QuantResults\voc s ical.batch.bin		
Analysis Time	8/19/2024 12:33 PM	Analyst Name	FA\GC19
Report Time	8/19/2024 12:34:03 PM	Reporter Name	FA\GC19
Last Calib Update	8/19/2024 12:17 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

**4-Isopropyltoluene %RSE = 4.2**



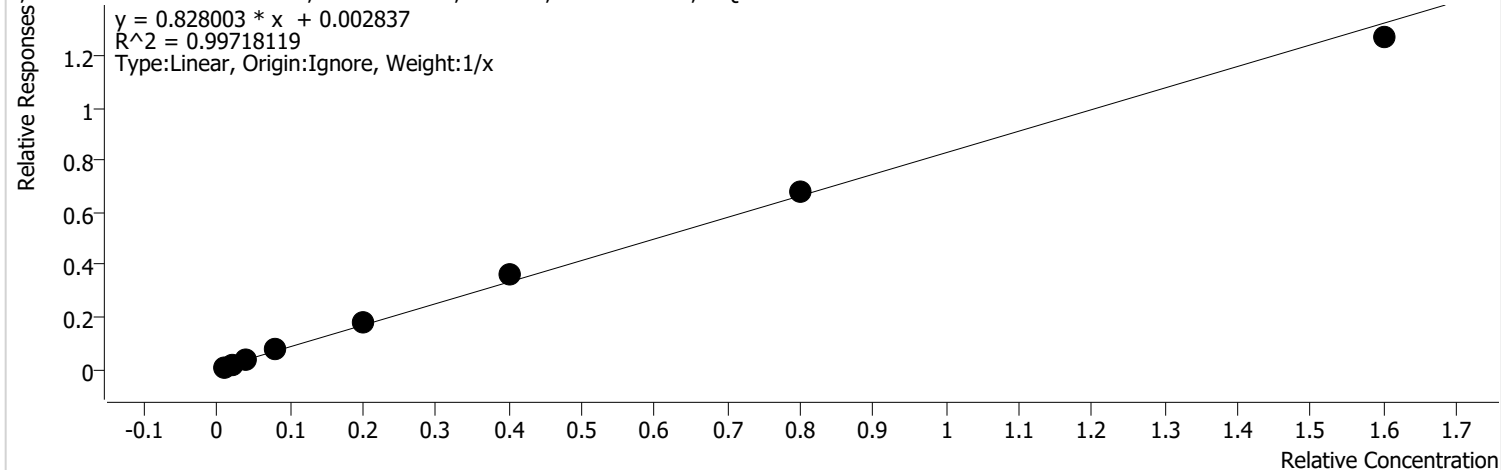
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\081524\081555.D	Calibration	1		47003	0.2000	3.3606	
D:\GC-19\Data\081524\081556.D	Calibration	2	x	57173	0.5000	1.5857	
D:\GC-19\Data\081524\081557.D	Calibration	3	x	107056	1.0000	1.4932	
D:\GC-19\Data\081524\081558.D	Calibration	4	x	213751	2.0000	1.4770	
D:\GC-19\Data\081524\081559.D	Calibration	5	x	512475	5.0000	1.4287	
D:\GC-19\Data\081524\081560.D	Calibration	6	x	1138824	10.0000	1.5767	
D:\GC-19\Data\081524\081561.D	Calibration	7	x	2387659	20.0000	1.5624	
D:\GC-19\Data\081524\081562.D	Calibration	8	x	4214368	40.0000	1.4607	

# Calibration Report

Batch Path	D:\GC-19\Data\081524\QuantResults\voc s ical.batch.bin		
Analysis Time	8/19/2024 12:33 PM	Analyst Name	FA\GC19
Report Time	8/19/2024 12:34:03 PM	Reporter Name	FA\GC19
Last Calib Update	8/19/2024 12:17 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

## 1,4-Dichlorobenzene %RSE = 8.5

1,4-Dichlorobenzene - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs



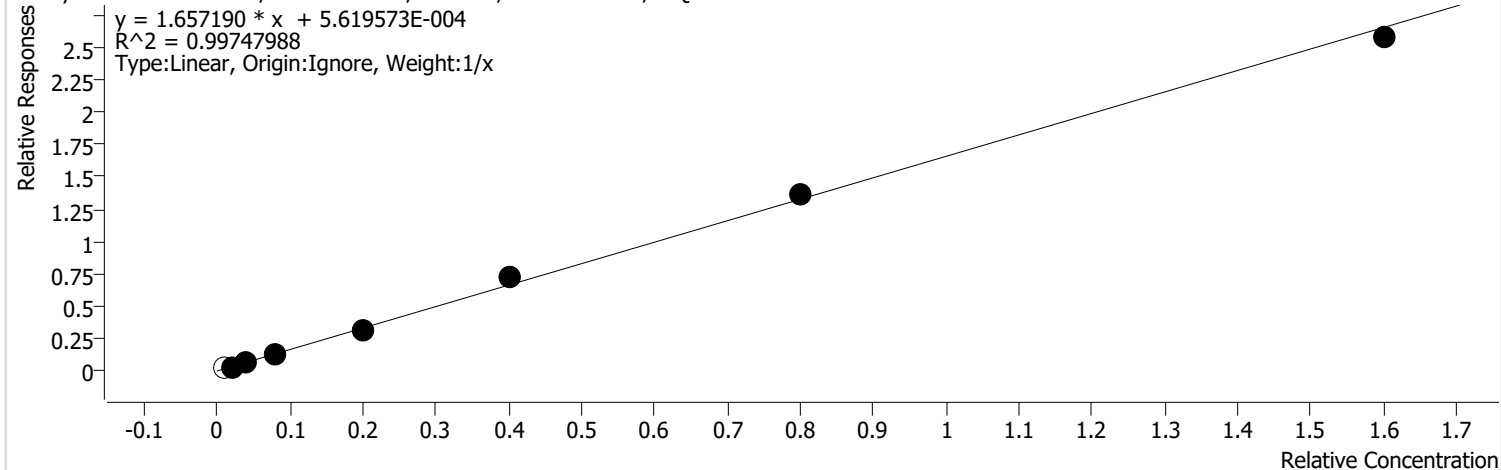
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\081524\081555.D	Calibration	1	x	12363	0.2000	1.1155	
D:\GC-19\Data\081524\081556.D	Calibration	2	x	25080	0.5000	0.8763	
D:\GC-19\Data\081524\081557.D	Calibration	3	x	49118	1.0000	0.8750	
D:\GC-19\Data\081524\081558.D	Calibration	4	x	106199	2.0000	0.9483	
D:\GC-19\Data\081524\081559.D	Calibration	5	x	252698	5.0000	0.8855	
D:\GC-19\Data\081524\081560.D	Calibration	6	x	518898	10.0000	0.9093	
D:\GC-19\Data\081524\081561.D	Calibration	7	x	1057455	20.0000	0.8487	
D:\GC-19\Data\081524\081562.D	Calibration	8	x	1879044	40.0000	0.7951	

# Calibration Report

Batch Path	D:\GC-19\Data\081524\QuantResults\voc s ical.batch.bin		
Analysis Time	8/19/2024 12:33 PM	Analyst Name	FA\GC19
Report Time	8/19/2024 12:34:03 PM	Reporter Name	FA\GC19
Last Calib Update	8/19/2024 12:17 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

**n-Butylbenzene %RSE = 6.4**

n-Butylbenzene - 8 Levels, 7 Levels Used, 8 Points, 7 Points Used, 0 QCs

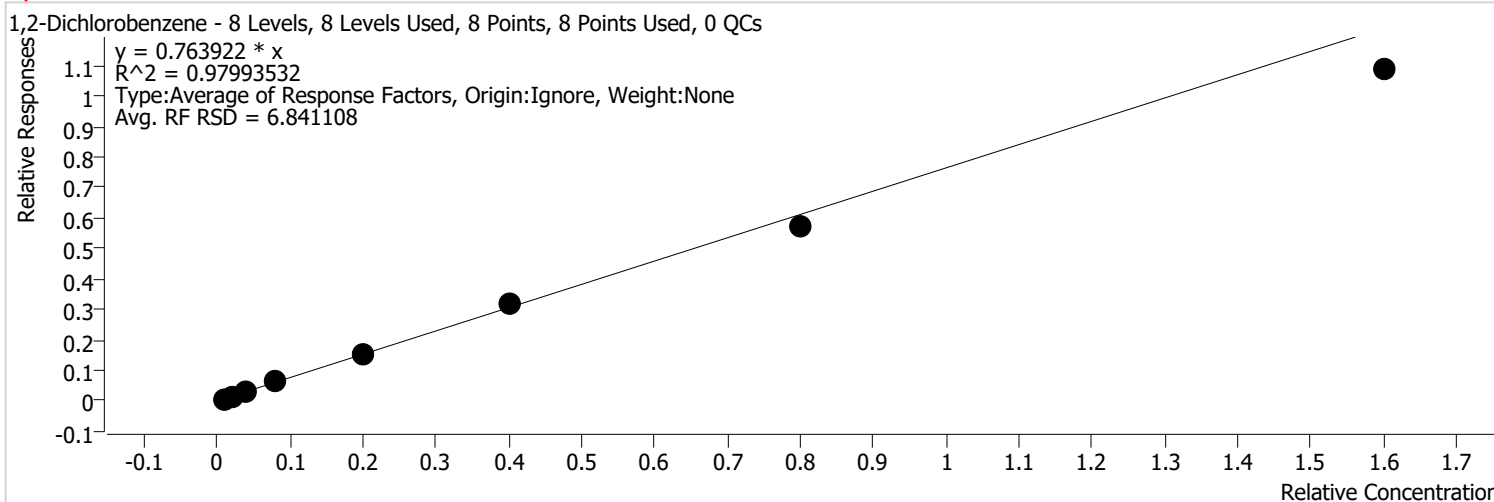


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\081524\081555.D	Calibration	1		45673	0.2000	4.1210	
D:\GC-19\Data\081524\081556.D	Calibration	2	x	50576	0.5000	1.7671	
D:\GC-19\Data\081524\081557.D	Calibration	3	x	88533	1.0000	1.5771	
D:\GC-19\Data\081524\081558.D	Calibration	4	x	181533	2.0000	1.6209	
D:\GC-19\Data\081524\081559.D	Calibration	5	x	444601	5.0000	1.5580	
D:\GC-19\Data\081524\081560.D	Calibration	6	x	1033023	10.0000	1.8102	
D:\GC-19\Data\081524\081561.D	Calibration	7	x	2134856	20.0000	1.7134	
D:\GC-19\Data\081524\081562.D	Calibration	8	x	3800438	40.0000	1.6082	

# Calibration Report

Batch Path	D:\GC-19\Data\081524\QuantResults\voc s ical.batch.bin		
Analysis Time	8/19/2024 12:33 PM	Analyst Name	FA\GC19
Report Time	8/19/2024 12:34:03 PM	Reporter Name	FA\GC19
Last Calib Update	8/19/2024 12:17 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

## 1,2-Dichlorobenzene %RSE = 6.8

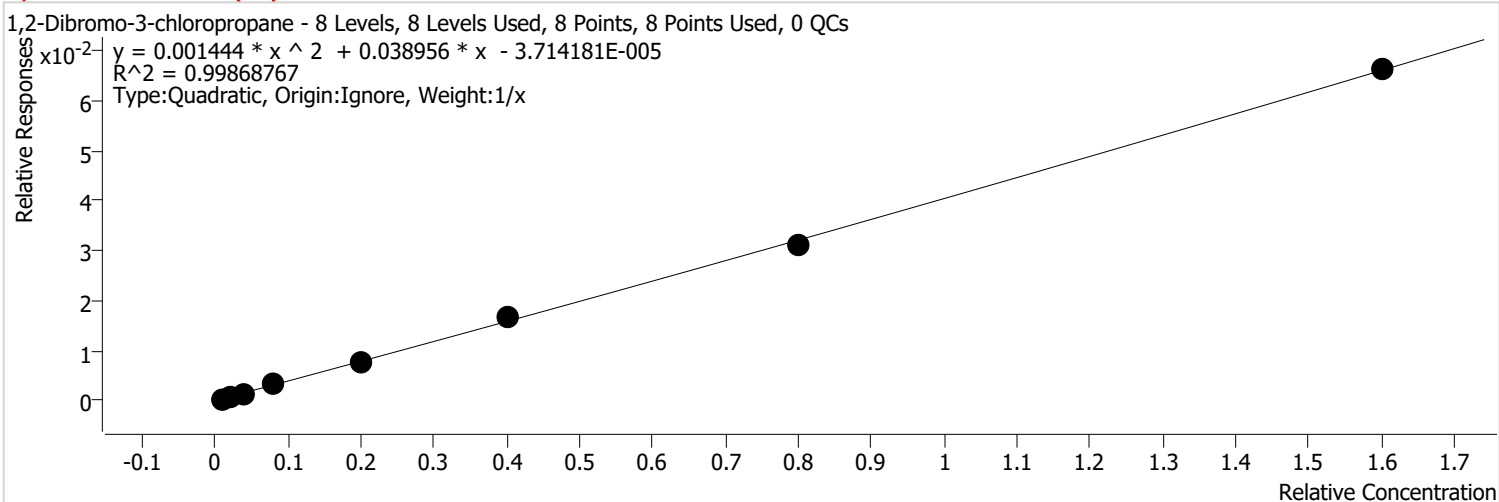


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\081524\081555.D	Calibration	1	x	9434	0.2000	0.8512	
D:\GC-19\Data\081524\081556.D	Calibration	2	x	21330	0.5000	0.7453	
D:\GC-19\Data\081524\081557.D	Calibration	3	x	42734	1.0000	0.7612	
D:\GC-19\Data\081524\081558.D	Calibration	4	x	86948	2.0000	0.7764	
D:\GC-19\Data\081524\081559.D	Calibration	5	x	222024	5.0000	0.7780	
D:\GC-19\Data\081524\081560.D	Calibration	6	x	457681	10.0000	0.8020	
D:\GC-19\Data\081524\081561.D	Calibration	7	x	895541	20.0000	0.7187	
D:\GC-19\Data\081524\081562.D	Calibration	8	x	1603483	40.0000	0.6785	

# Calibration Report

Batch Path	D:\GC-19\Data\081524\QuantResults\voc s ical.batch.bin		
Analysis Time	8/19/2024 12:33 PM	Analyst Name	FA\GC19
Report Time	8/19/2024 12:34:03 PM	Reporter Name	FA\GC19
Last Calib Update	8/19/2024 12:17 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

**1,2-Dibromo-3-chloropropane %RSE = 9.7**

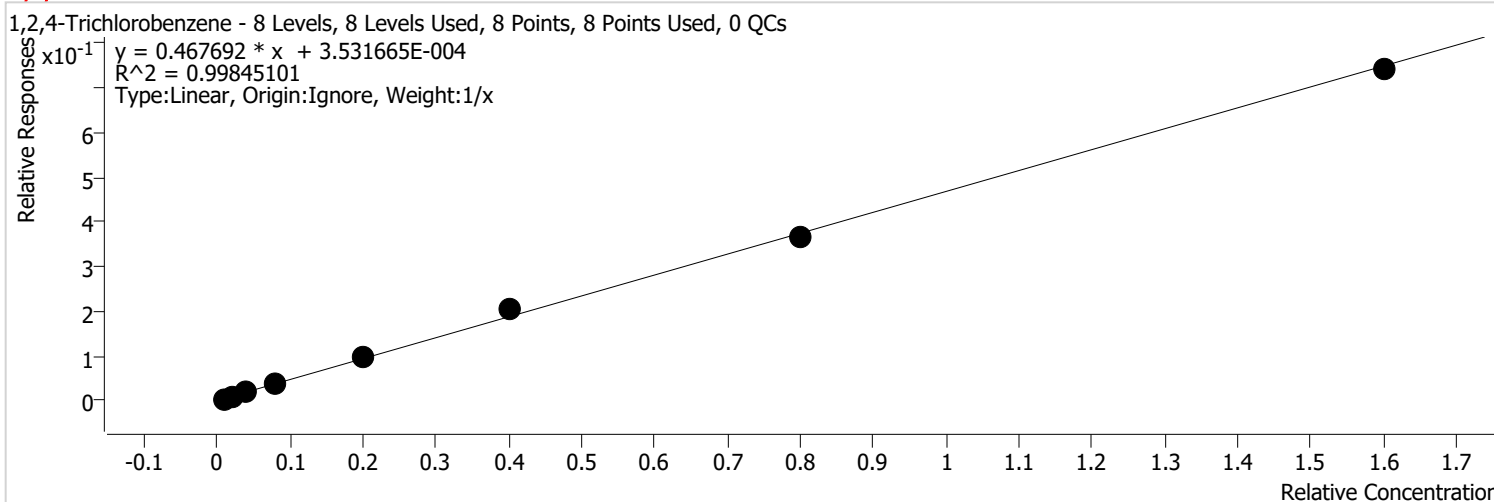


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\081524\081555.D	Calibration	1	x	439	0.2000	0.0396	
D:\GC-19\Data\081524\081556.D	Calibration	2	x	1057	0.5000	0.0369	
D:\GC-19\Data\081524\081557.D	Calibration	3	x	1826	1.0000	0.0325	
D:\GC-19\Data\081524\081558.D	Calibration	4	x	4366	2.0000	0.0390	
D:\GC-19\Data\081524\081559.D	Calibration	5	x	10604	5.0000	0.0372	
D:\GC-19\Data\081524\081560.D	Calibration	6	x	24143	10.0000	0.0423	
D:\GC-19\Data\081524\081561.D	Calibration	7	x	48747	20.0000	0.0391	
D:\GC-19\Data\081524\081562.D	Calibration	8	x	97675	40.0000	0.0413	

# Calibration Report

Batch Path	D:\GC-19\Data\081524\QuantResults\voc s ical.batch.bin		
Analysis Time	8/19/2024 12:33 PM	Analyst Name	FA\GC19
Report Time	8/19/2024 12:34:03 PM	Reporter Name	FA\GC19
Last Calib Update	8/19/2024 12:17 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\081524\081555.D	Calibration	1	x	5621	0.2000	0.5071	
D:\GC-19\Data\081524\081556.D	Calibration	2	x	12859	0.5000	0.4493	
D:\GC-19\Data\081524\081557.D	Calibration	3	x	26715	1.0000	0.4759	
D:\GC-19\Data\081524\081558.D	Calibration	4	x	53501	2.0000	0.4777	
D:\GC-19\Data\081524\081559.D	Calibration	5	x	137330	5.0000	0.4812	
D:\GC-19\Data\081524\081560.D	Calibration	6	x	291729	10.0000	0.5112	
D:\GC-19\Data\081524\081561.D	Calibration	7	x	566611	20.0000	0.4547	
D:\GC-19\Data\081524\081562.D	Calibration	8	x	1093438	40.0000	0.4627	

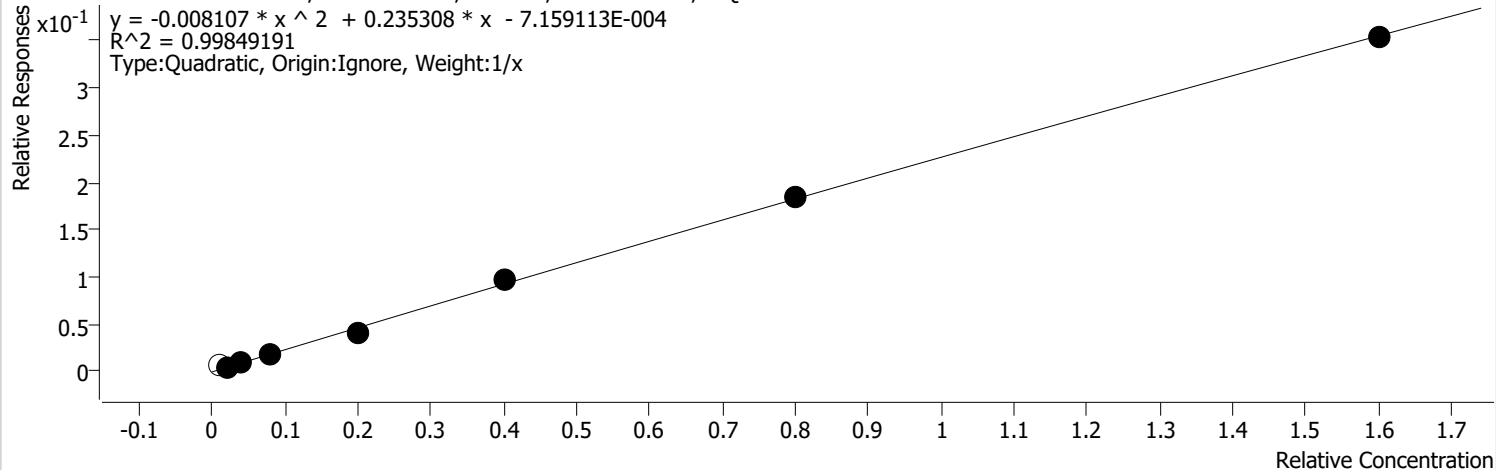


# Calibration Report

Batch Path	D:\GC-19\Data\081524\QuantResults\voc s ical.batch.bin		
Analysis Time	8/19/2024 12:33 PM	Analyst Name	FA\GC19
Report Time	8/19/2024 12:34:03 PM	Reporter Name	FA\GC19
Last Calib Update	8/19/2024 12:17 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

**Hexachlorobutadiene %RSE = 9.9**

Hexachlorobutadiene - 8 Levels, 7 Levels Used, 8 Points, 7 Points Used, 0 QCs



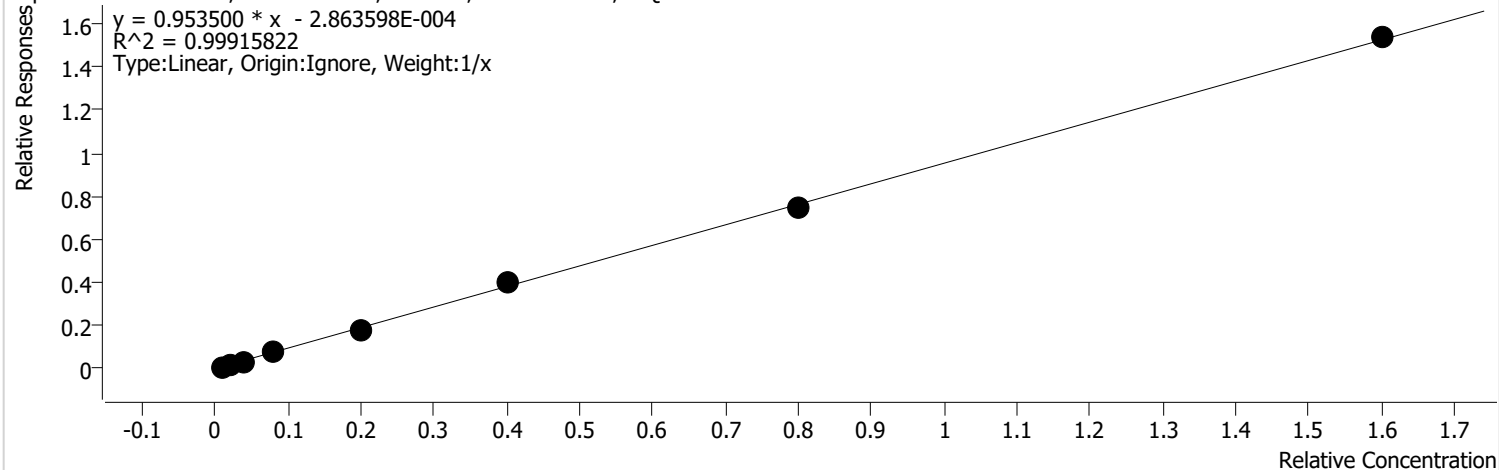
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\081524\081555.D	Calibration	1		7735	0.2000	0.6979	
D:\GC-19\Data\081524\081556.D	Calibration	2	x	6692	0.5000	0.2338	
D:\GC-19\Data\081524\081557.D	Calibration	3	x	11498	1.0000	0.2048	
D:\GC-19\Data\081524\081558.D	Calibration	4	x	23838	2.0000	0.2129	
D:\GC-19\Data\081524\081559.D	Calibration	5	x	59255	5.0000	0.2076	
D:\GC-19\Data\081524\081560.D	Calibration	6	x	137357	10.0000	0.2407	
D:\GC-19\Data\081524\081561.D	Calibration	7	x	288924	20.0000	0.2319	
D:\GC-19\Data\081524\081562.D	Calibration	8	x	521409	40.0000	0.2206	

# Calibration Report

Batch Path	D:\GC-19\Data\081524\QuantResults\vo c s ical.batch.bin		
Analysis Time	8/19/2024 12:33 PM	Analyst Name	FA\GC19
Report Time	8/19/2024 12:34:03 PM	Reporter Name	FA\GC19
Last Calib Update	8/19/2024 12:17 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

**Naphthalene %RSE = 6.8**

Naphthalene - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs

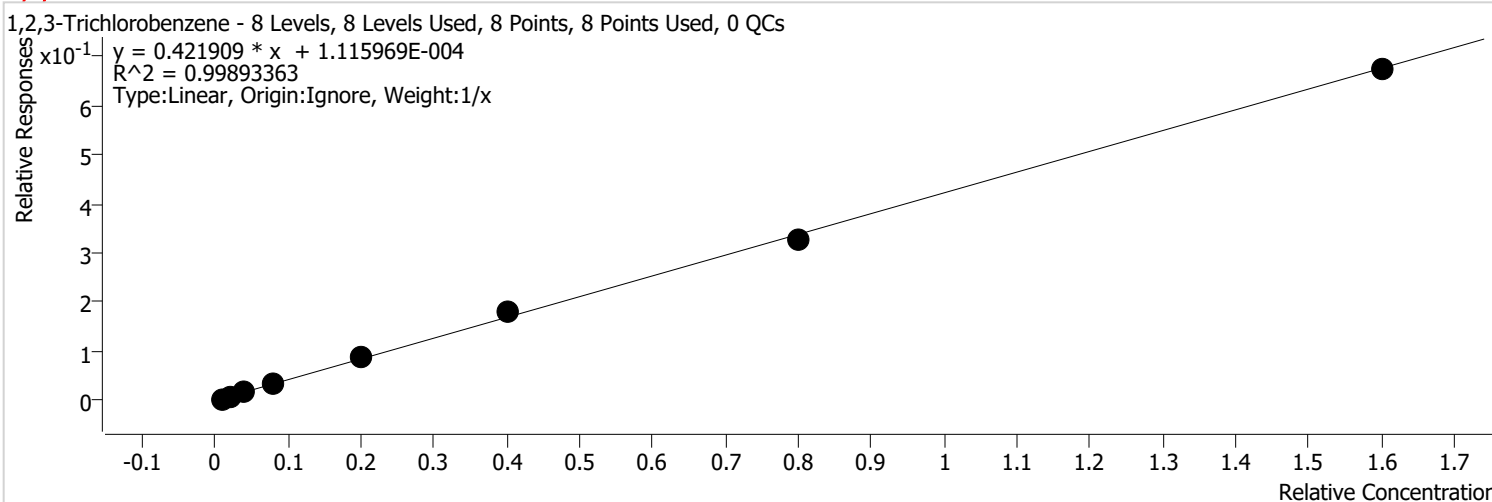


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\081524\081555.D	Calibration	1	x	11445	0.2000	1.0327	
D:\GC-19\Data\081524\081556.D	Calibration	2	x	25826	0.5000	0.9024	
D:\GC-19\Data\081524\081557.D	Calibration	3	x	48860	1.0000	0.8704	
D:\GC-19\Data\081524\081558.D	Calibration	4	x	107078	2.0000	0.9561	
D:\GC-19\Data\081524\081559.D	Calibration	5	x	260537	5.0000	0.9130	
D:\GC-19\Data\081524\081560.D	Calibration	6	x	571698	10.0000	1.0018	
D:\GC-19\Data\081524\081561.D	Calibration	7	x	1156795	20.0000	0.9284	
D:\GC-19\Data\081524\081562.D	Calibration	8	x	2268221	40.0000	0.9598	

# Calibration Report

Batch Path	D:\GC-19\Data\081524\QuantResults\voc s ical.batch.bin		
Analysis Time	8/19/2024 12:33 PM	Analyst Name	FA\GC19
Report Time	8/19/2024 12:34:03 PM	Reporter Name	FA\GC19
Last Calib Update	8/19/2024 12:17 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

**1,2,3-Trichlorobenzene %RSE = 4.7**



Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\081524\081555.D	Calibration	1	x	4881	0.2000	0.4404	
D:\GC-19\Data\081524\081556.D	Calibration	2	x	11364	0.5000	0.3971	
D:\GC-19\Data\081524\081557.D	Calibration	3	x	23268	1.0000	0.4145	
D:\GC-19\Data\081524\081558.D	Calibration	4	x	48818	2.0000	0.4359	
D:\GC-19\Data\081524\081559.D	Calibration	5	x	123229	5.0000	0.4318	
D:\GC-19\Data\081524\081560.D	Calibration	6	x	257659	10.0000	0.4515	
D:\GC-19\Data\081524\081561.D	Calibration	7	x	509333	20.0000	0.4088	
D:\GC-19\Data\081524\081562.D	Calibration	8	x	992796	40.0000	0.4201	

# VOC Soil Calibration



Date: 3/14/24

Analyst: KS

Instrument: 6019

Cal	ICV
8260 Standard: <u>30020</u>	8260 Standard: <u>30020</u>

IS/Surrogate 30020

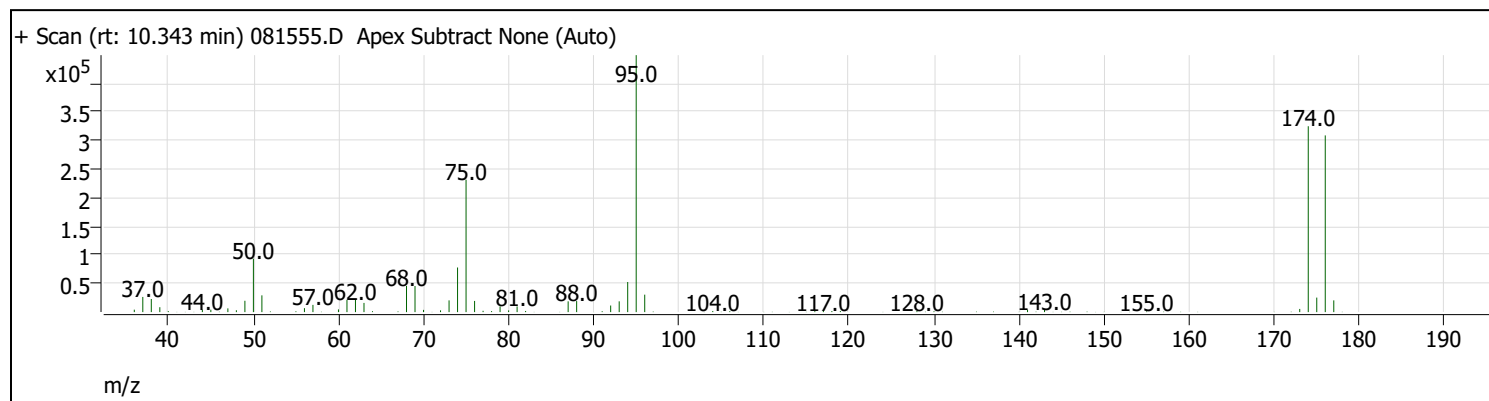
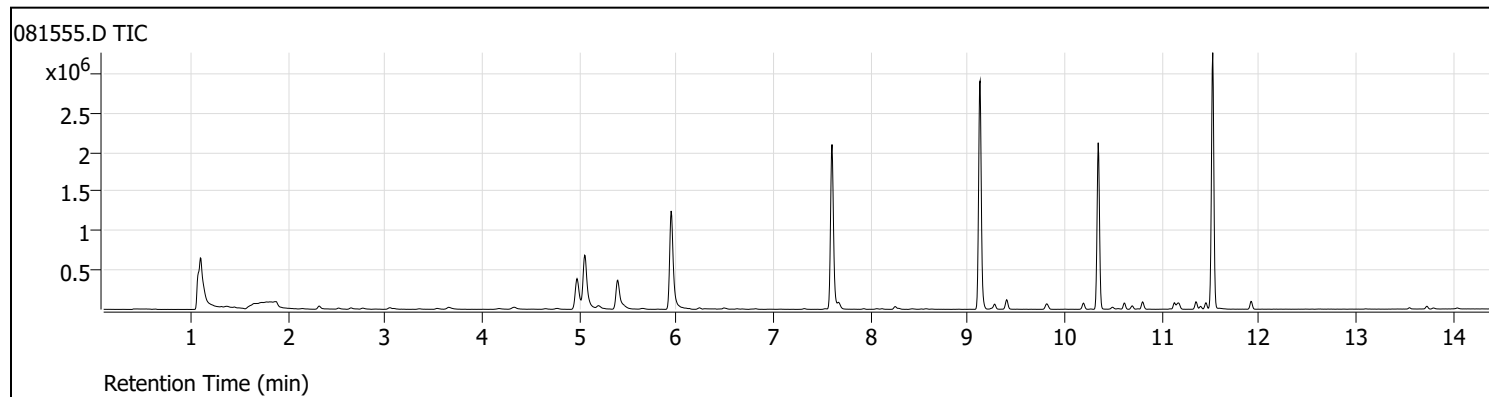
Cal Level	Spike Conc. (ppb)	Cal 8260 Spike (uL)	ICV 8260 Spike (uL)	Amount MeOH (mL)	Final Vol. (mL)	Comments
1	0.2	0.50	--	1.00	50	
2	0.5	1.25	--	1.00	50	
3	1	2.50	--	1.00	50	
4	2	5.00	--	1.00	50	
5	5	12.50	--	1.00	50	
6	10	25.00	--	1.00	50	
7	20	50.00	--	1.00	50	
8	40	100.00	--	1.00	50	
	ICV (20 ppb)	--	50.00	1.00	50	

Signature and Date: Kelsey Apr 2/14/24

# Tunes

# Tune Evaluation Report

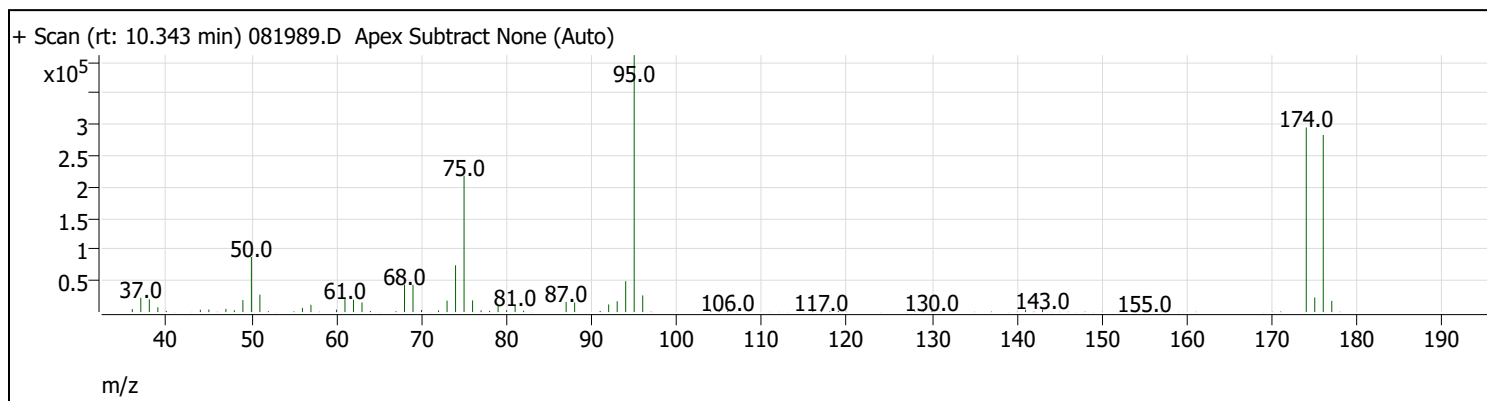
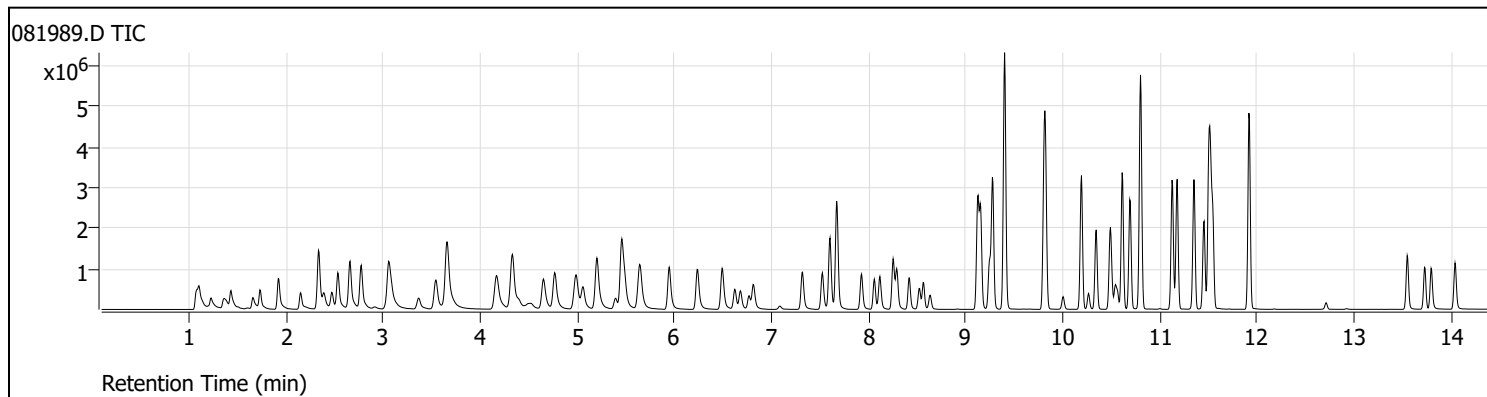
Data Path: D:\GC-19\Data\081524\081555.D  
 Acq on: 8/16/2024 8:34:42 PM  
 Operator: FA\GC19  
 Sample: VOC S ICAL 1  
 Inst Name: GC19  
 ALS Vial: 41  
 Method: D:\MassHunter\Methods\Quant\BFB2021.m



Target Mass	Rel. To Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Pass/Fail
95	174	50	200	138.2	449517	Pass
96	95	5	9	6.8	30487	Pass
173	174	0	2	1.7	5535	Pass
174	95	50	200	72.3	325163	Pass
175	174	5	9	7.8	25349	Pass
176	174	95	105	95.1	309105	Pass
177	176	5	10	6.6	20499	Pass

# Tune Evaluation Report

Data Path: D:\GC-19\Data\082124\081989.D  
 Acq on: 8/21/2024 8:37:12 AM  
 Operator: FA\GC19  
 Sample: VOC W CCV D  
 Inst Name: GC19  
 ALS Vial: 34  
 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	139.1	410927	Pass
96	95	5	9	6.5	26679	Pass
173	174	0	2	0.0	0	Pass
174	95	50	200	71.9	295366	Pass
175	174	5	9	7.9	23429	Pass
176	174	95	105	95.9	283273	Pass
177	176	5	10	6.3	17889	Pass

# Internal Standards



INTERNAL STANDARD AREA AND RT SUMMARY

RunID: GC-19 240828B

CCV Name: VOC W 93783

Run No: 93964

CCV SeqNo: 1962423

Lab File ID (Standard): 081942.D

Date Analyzed: 8/20/2024

Instrument ID: GC-19

Time Analyzed: 6:55

GC Column: ID (mm):

Length (M):

	IS1 FBZ AREA #	RT #	IS2 (CBZ) AREA #	RT #	IS3 (14DCBZ) AREA #	RT #		
12 HOUR STD	617234	5.058	1846956	9.122	1610907	11.523		
UPPER LIMIT	1234468	5.558	3693912	9.622	3221814	12.023		
LOWER LIMIT	308617	4.558	923478	8.622	805454	11.023		
SAMPLE NO.								
01 VOC-CCV-93964A	440781	5.058	1.52965e+006	9.122	1.36392e+006	11.523		

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 240828B CCV Name: VOC-CCV-93964A  
 Run No: 93964 CCV SeqNo: 1962388  
 Lab File ID (Standard): 081989.D Date Analyzed: 8/21/2024  
 Instrument ID: GC-19 Time Analyzed: 8:37  
 GC Column: ID (mm): Length (M):

	IS1 FBZ AREA #	RT #	IS2 (CBZ) AREA #	RT #	IS3 (14DCBZ) AREA #	RT #		
12 HOUR STD	440781	5.058	1529653	9.122	1363918	11.523		
UPPER LIMIT	881562	5.558	3059306	9.622	2727836	12.023		
LOWER LIMIT	220391	4.558	764827	8.622	681959	11.023		
SAMPLE NO.								
01	LCS-44941	440781	5.058	1.52965e+006	9.122	1.36392e+006	11.523	
02	MB-44941	398707	5.058	1.53965e+006	9.122	1.26792e+006	11.523	
03	2408312-005A	380283	5.058	1.49575e+006	9.122	1.21946e+006	11.523	
04	2408312-001A	383660	5.058	1.5562e+006	9.122	1.32001e+006	11.523	
05	2408312-001ADUP	381107	5.058	1.5128e+006	9.122	1.31126e+006	11.523	
06	2408312-002A	349582	5.064	1.42018e+006	9.122	1.21791e+006	11.518	
07	2408312-003A	344156	5.058	1.44014e+006	9.127	1.24097e+006	11.523	
08	2408312-004A	340974	5.058	1.41163e+006	9.122	1.17047e+006	11.523	
09	2408312-002AMS	386460	5.058	1.53389e+006	9.122	1.40888e+006	11.523	

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.

# Supporting Data

## 5030B Prep Bench Sheet

<b>Analyst:</b> KE	<b>Spikes / Chemicals / Reagents</b>	<b>Omega ID</b>	<b>Amount Used</b>	<b>Final Volume</b>
<b>Date and Time:</b> 8/21/21	VOC Standard 20 µg/mL (LCS/LCSD)	30247	50 µL	2 mL
<b>Batch:</b> 1994	GX Standard 2,500 µg/mL (LCS/LCSD)	29972	10 µL	1
<b>Notes/Modificaitons</b>	VOC Standard 20 µg/mL (MS/MSD)	30247	43 µL	7 mL
	GX Standard 2,500 µg/mL (MS/MSD)	29972	8.6 µL	1

Samples verified pH < 2	Initial/Date

I acknowledge the spike/chemical/reagent amounts listed above were used	Initial/Date
	KE 8/21/21

Equipment
<b>Pipette:</b> #
<b>Balance:</b> 0
<b>Other:</b>

Dilutions	
Sample ID	Dilution Description

**Sign and date below if you contributed to the preparation of this batch**

Emily Jan 8/21/21

Prep Start Date: 8/21/2024 10:32:30

Prep End Date:

Technician: Kelsey Jones

Prep Factor Units:  
mL / mL

Prep Batch ID: 44941 Prep Code: PREP-5030

Method No: SW5030

Sample ID	ClientSampleID	Matrix	Sample Amount (mL)	Final Vol (mL)	Prep Factor	PrepStart	PrepEnd
MB-44941		Water	40	40	1.000	8/21/2024	Preliminary
LCS-44941		Water	40	40	1.000	8/21/2024	Preliminary
2408246-001A	GW-MW501-0824	Water	40	40	1.000	8/21/2024	Preliminary
2408246-002A	GW-MW502-0824	Water	40	40	1.000	8/21/2024	Preliminary
2408246-003A	GW-MW503-0824	Water	40	40	1.000	8/21/2024	Preliminary
2408246-004A	GW-MW504-0824	Water	40	40	1.000	8/21/2024	Preliminary
2408246-005A	GW-MW505-0824	Water	40	40	1.000	8/21/2024	Preliminary
2408246-006A	GW-MW506-0824	Water	40	40	1.000	8/21/2024	Preliminary
2408246-007A	GW-MW506-0824-01	Water	40	40	1.000	8/21/2024	Preliminary
2408246-008A	GW-MW201-0824	Water	40	40	1.000	8/21/2024	Preliminary
2408312-001A	GEI-11_082024	Water	40	40	1.000	8/21/2024	Preliminary
2408312-001ADUP		Water	40	40	1.000	8/21/2024	Preliminary
2408312-002A	GEI-12_082024	Water	40	40	1.000	8/21/2024	Preliminary
2408312-002AMS		Water	40	40	1.000	8/21/2024	Preliminary
2408312-003A	GEI-13_082024	Water	40	40	1.000	8/21/2024	Preliminary
2408312-003AMS		Water	40	40	1.000	8/21/2024	Preliminary
2408312-004A	Dup_082024	Water	40	40	1.000	8/21/2024	Preliminary
2408312-005A	Trip Blank	Water	40	40	1.000	8/21/2024	Preliminary

# Reporting Checklist



Analyst: KJ  
 Date: 8/28/24  
 Prep #: 44941  
 Run(s) #: 93964

Workorder(s): 08312  
 Analysis: O-VOC-W

Y/N Reviewed

Y	Run complete? (i.e., all QC, samples, dilutions present)	✓
N	All QC within limits? <input type="checkbox"/> Exceedances acceptable per QA Manual and/or Auth'd by PM ___?	✓

CCV out     LCS out     MS out     Blank hits     IS/surr out     RPD out  
 Hold time     Other \_\_\_\_\_  
 MS fails high for several analytes

N Any pending dilutions, re-extracts, or reanalysis to be completed in future run?  
 Manual entries/narratives reviewed for accuracy? (note below)    Analyst: \_\_\_\_\_    Reviewer: \_\_\_\_\_

Omega checks performed? ✓  
 SampID, Test Code, Type, Prep  
 PMOIST, pH  
 BLKref, SPKref, RPDref, CCVref  
 Attachments ✓  
 Sequence     Cgrams     Bench Sheets     Perf Checks     Tech Doc  
 Related Info ✓  
 IICAL Ref     IICAL Ack/QA'd?     Spiking Info/CCV Std     \_\_\_\_\_  
 Reporting Checks ✓  
 Dilutions data/narr redundancy check     RLs OK (low wt, high pmoist, dilutions)

**Notes for Reviewer**

Toulene rounds down to passing in CCV/LCS; please remove S-flag

By signing, I attest that I have followed the SOP

**Kelsey Jones 8/28/24**

**MG 8/28/2024**

Analyst Date

Reviewer Date

**GeoEngineers**

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

**RE: 701/709 South Jackson, 24504-001-04**

**Work Order Number: 2408312**

August 28, 2024

**Attention Robert Trahan:**

Fremont Analytical, Inc, an Alliance Technical Group company, received 5 sample(s) on 8/20/2024 for the analyses presented in the following report.

***Diesel and Heavy Oil by NWTPH-Dx***

***Dissolved Metals by EPA 6020B***

***EDB by EPA 8011***

***Gasoline by NWTPH-Gx***

***PAHs by EPA Method 8270E SIM***

***Total Metals by EPA 6020B***

***Volatile Organic Compounds by EPA 8260D***

All analyses were performed according to our accredited Quality Assurance program. Please contact the laboratory if you should have any questions about the results.

Please note, while the appearance of our logo and branding will update, our commitment to accuracy, speed, and customer service remain values celebrated and shared by Alliance Technical Group. Thank you for the opportunity to serve you.

Sincerely,



DoD-ELAP Accreditation #79636 by PJLA, ISO/IEC 17025:2017 and QSM 5.4 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



Brianna Barnes  
Project Manager

*DoD-ELAP Accreditation #79636 by PJLA, ISO/IEC 17025:2017 and QSM 5.4 for Environmental Testing  
ORELAP Certification: WA 100009 (NELAP Recognized) for Environmental Testing  
Washington State Department of Ecology Accredited for Environmental Testing, Lab ID C910*

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Original



[www.fremontanalytical.com](http://www.fremontanalytical.com)



**CLIENT:** GeoEngineers  
**Project:** 701/709 South Jackson  
**Work Order:** 2408312

**Work Order Sample Summary**

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
2408312-001	GEI-11_082024	08/20/2024 10:50 AM	08/20/2024 3:20 PM
2408312-002	GEI-12_082024	08/20/2024 12:00 PM	08/20/2024 3:20 PM
2408312-003	GEI-13_082024	08/20/2024 1:30 PM	08/20/2024 3:20 PM
2408312-004	Dup_082024	08/20/2024 12:00 AM	08/20/2024 3:20 PM
2408312-005	Trip Blank	08/19/2024 12:00 PM	08/20/2024 3:20 PM

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

**CLIENT:** GeoEngineers  
**Project:** 701/709 South Jackson

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**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:** 8/20/2024 10:50:00 AM

**Project:** 701/709 South Jackson

**Lab ID:** 2408312-001

**Matrix:** Water

**Client Sample ID:** GEI-11\_082024

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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**EDB by EPA 8011**

Batch ID: 44994 Analyst: CO

1,2-Dibromoethane (EDB)	ND	0.00985		µg/L	1	8/26/2024 2:19:14 PM
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**Diesel and Heavy Oil by NWTPH-Dx**

Batch ID: 44970 Analyst: AP

Diesel Range Organics	ND	91.9		µg/L	1	8/26/2024 5:10:55 PM
Heavy Oil	ND	138		µg/L	1	8/26/2024 5:10:55 PM
Total Petroleum Hydrocarbons	ND	230		µg/L	1	8/26/2024 5:10:55 PM
Surr: 2-Fluorobiphenyl	83.5	50 - 150		%Rec	1	8/26/2024 5:10:55 PM
Surr: o-Terphenyl	82.5	50 - 150		%Rec	1	8/26/2024 5:10:55 PM

**PAHs by EPA Method 8270E SIM**

Batch ID: 44929 Analyst: RG

Naphthalene	ND	0.0949		µg/L	1	8/22/2024 2:51:47 PM
2-Methylnaphthalene	ND	0.0949		µg/L	1	8/22/2024 2:51:47 PM
1-Methylnaphthalene	ND	0.0949		µg/L	1	8/22/2024 2:51:47 PM
Surr: 2-Fluorobiphenyl	93.2	43.2 - 131		%Rec	1	8/22/2024 2:51:47 PM
Surr: Terphenyl-d14	119	46.1 - 140		%Rec	1	8/22/2024 2:51:47 PM

**Gasoline by NWTPH-Gx**

Batch ID: 44956 Analyst: FG

Gasoline Range Organics	ND	100		µg/L	1	8/23/2024 1:32:15 PM
Surr: Toluene-d8	95.9	65 - 135		%Rec	1	8/23/2024 1:32:15 PM
Surr: 4-Bromofluorobenzene	92.1	65 - 135		%Rec	1	8/23/2024 1:32:15 PM

**Volatile Organic Compounds by EPA 8260D**

Batch ID: 44941 Analyst: KJ

Methyl tert-butyl ether (MTBE)	ND	0.500		µg/L	1	8/21/2024 4:23:01 PM
1,2-Dichloroethane (EDC)	ND	0.200		µg/L	1	8/21/2024 4:23:01 PM
Benzene	ND	0.200		µg/L	1	8/21/2024 4:23:01 PM
Toluene	ND	0.500		µg/L	1	8/21/2024 4:23:01 PM
Ethylbenzene	ND	0.500		µg/L	1	8/21/2024 4:23:01 PM
m,p-Xylene	ND	1.00		µg/L	1	8/21/2024 4:23:01 PM
o-Xylene	ND	0.500		µg/L	1	8/21/2024 4:23:01 PM
Surr: Dibromofluoromethane	107	82.4 - 122.4		%Rec	1	8/21/2024 4:23:01 PM
Surr: Toluene-d8	117	81.4 - 121.4		%Rec	1	8/21/2024 4:23:01 PM
Surr: 1-Bromo-4-fluorobenzene	107	80.1 - 120.1		%Rec	1	8/21/2024 4:23:01 PM



# Analytical Report

Work Order: 2408312  
 Date Reported: 8/28/2024

**Client:** GeoEngineers

**Collection Date:** 8/20/2024 10:50:00 AM

**Project:** 701/709 South Jackson

**Lab ID:** 2408312-001

**Matrix:** Water

**Client Sample ID:** GEI-11\_082024

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b><u>Dissolved Metals by EPA 6020B</u></b>				Batch ID: 44939		Analyst: SLL
Lead	ND	0.300		µg/L	1	8/21/2024 3:08:00 PM
<b><u>Total Metals by EPA 6020B</u></b>				Batch ID: 44989		Analyst: ME
Lead	ND	0.300		µg/L	1	8/26/2024 5:31:00 PM

**Client:** GeoEngineers

**Collection Date:** 8/20/2024 12:00:00 PM

**Project:** 701/709 South Jackson

**Lab ID:** 2408312-002

**Matrix:** Water

**Client Sample ID:** GEI-12\_082024

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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**EDB by EPA 8011**

Batch ID: 44994 Analyst: CO

1,2-Dibromoethane (EDB)	ND	0.00953		µg/L	1	8/26/2024 2:27:32 PM
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**Diesel and Heavy Oil by NWTPH-Dx**

Batch ID: 44970 Analyst: AP

Diesel Range Organics	ND	92.1		µg/L	1	8/26/2024 5:22:49 PM
Heavy Oil	ND	138		µg/L	1	8/26/2024 5:22:49 PM
Total Petroleum Hydrocarbons	ND	230		µg/L	1	8/26/2024 5:22:49 PM
Surr: 2-Fluorobiphenyl	104	50 - 150		%Rec	1	8/26/2024 5:22:49 PM
Surr: o-Terphenyl	102	50 - 150		%Rec	1	8/26/2024 5:22:49 PM

**PAHs by EPA Method 8270E SIM**

Batch ID: 44929 Analyst: RG

Naphthalene	ND	0.0935		µg/L	1	8/22/2024 3:21:44 PM
2-Methylnaphthalene	ND	0.0935		µg/L	1	8/22/2024 3:21:44 PM
1-Methylnaphthalene	ND	0.0935		µg/L	1	8/22/2024 3:21:44 PM
Surr: 2-Fluorobiphenyl	92.9	43.2 - 131		%Rec	1	8/22/2024 3:21:44 PM
Surr: Terphenyl-d14	113	46.1 - 140		%Rec	1	8/22/2024 3:21:44 PM

**Gasoline by NWTPH-Gx**

Batch ID: 44956 Analyst: FG

Gasoline Range Organics	ND	100		µg/L	1	8/23/2024 2:00:55 PM
Surr: Toluene-d8	94.4	65 - 135		%Rec	1	8/23/2024 2:00:55 PM
Surr: 4-Bromofluorobenzene	91.6	65 - 135		%Rec	1	8/23/2024 2:00:55 PM

**Volatile Organic Compounds by EPA 8260D**

Batch ID: 44941 Analyst: KJ

Methyl tert-butyl ether (MTBE)	ND	0.500		µg/L	1	8/21/2024 5:30:33 PM
1,2-Dichloroethane (EDC)	ND	0.200		µg/L	1	8/21/2024 5:30:33 PM
Benzene	ND	0.200		µg/L	1	8/21/2024 5:30:33 PM
Toluene	ND	0.500		µg/L	1	8/21/2024 5:30:33 PM
Ethylbenzene	ND	0.500		µg/L	1	8/21/2024 5:30:33 PM
m,p-Xylene	ND	1.00		µg/L	1	8/21/2024 5:30:33 PM
o-Xylene	ND	0.500		µg/L	1	8/21/2024 5:30:33 PM
Surr: Dibromofluoromethane	105	82.4 - 122.4		%Rec	1	8/21/2024 5:30:33 PM
Surr: Toluene-d8	118	81.4 - 121.4		%Rec	1	8/21/2024 5:30:33 PM
Surr: 1-Bromo-4-fluorobenzene	107	80.1 - 120.1		%Rec	1	8/21/2024 5:30:33 PM



# Analytical Report

Work Order: 2408312  
 Date Reported: 8/28/2024

**Client:** GeoEngineers

**Collection Date:** 8/20/2024 12:00:00 PM

**Project:** 701/709 South Jackson

**Lab ID:** 2408312-002

**Matrix:** Water

**Client Sample ID:** GEI-12\_082024

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b><u>Dissolved Metals by EPA 6020B</u></b>				Batch ID: 44939		Analyst: SLL
Lead	ND	0.300		µg/L	1	8/21/2024 3:11:00 PM
<b><u>Total Metals by EPA 6020B</u></b>				Batch ID: 44989		Analyst: ME
Lead	ND	0.300		µg/L	1	8/26/2024 5:33:00 PM

**Client:** GeoEngineers

**Collection Date:** 8/20/2024 1:30:00 PM

**Project:** 701/709 South Jackson

**Lab ID:** 2408312-003

**Matrix:** Water

**Client Sample ID:** GEI-13\_082024

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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**EDB by EPA 8011**

Batch ID: 44994 Analyst: CO

1,2-Dibromoethane (EDB)	ND	0.00984		µg/L	1	8/26/2024 2:35:49 PM
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**Diesel and Heavy Oil by NWTPH-Dx**

Batch ID: 44970 Analyst: AP

Diesel Range Organics	ND	93.3		µg/L	1	8/26/2024 5:34:39 PM
Heavy Oil	ND	140		µg/L	1	8/26/2024 5:34:39 PM
Total Petroleum Hydrocarbons	ND	233		µg/L	1	8/26/2024 5:34:39 PM
Surr: 2-Fluorobiphenyl	101	50 - 150		%Rec	1	8/26/2024 5:34:39 PM
Surr: o-Terphenyl	104	50 - 150		%Rec	1	8/26/2024 5:34:39 PM

**PAHs by EPA Method 8270E SIM**

Batch ID: 44929 Analyst: RG

Naphthalene	ND	0.0939		µg/L	1	8/22/2024 3:51:27 PM
2-Methylnaphthalene	ND	0.0939		µg/L	1	8/22/2024 3:51:27 PM
1-Methylnaphthalene	ND	0.0939		µg/L	1	8/22/2024 3:51:27 PM
Surr: 2-Fluorobiphenyl	101	43.2 - 131		%Rec	1	8/22/2024 3:51:27 PM
Surr: Terphenyl-d14	119	46.1 - 140		%Rec	1	8/22/2024 3:51:27 PM

**Gasoline by NWTPH-Gx**

Batch ID: 44956 Analyst: FG

Gasoline Range Organics	ND	100		µg/L	1	8/23/2024 2:29:33 PM
Surr: Toluene-d8	94.8	65 - 135		%Rec	1	8/23/2024 2:29:33 PM
Surr: 4-Bromofluorobenzene	90.2	65 - 135		%Rec	1	8/23/2024 2:29:33 PM

**Volatile Organic Compounds by EPA 8260D**

Batch ID: 44941 Analyst: KJ

Methyl tert-butyl ether (MTBE)	ND	0.500		µg/L	1	8/21/2024 6:03:36 PM
1,2-Dichloroethane (EDC)	ND	0.200		µg/L	1	8/21/2024 6:03:36 PM
Benzene	ND	0.200		µg/L	1	8/21/2024 6:03:36 PM
Toluene	ND	0.500		µg/L	1	8/21/2024 6:03:36 PM
Ethylbenzene	ND	0.500		µg/L	1	8/21/2024 6:03:36 PM
m,p-Xylene	ND	1.00		µg/L	1	8/21/2024 6:03:36 PM
o-Xylene	ND	0.500		µg/L	1	8/21/2024 6:03:36 PM
Surr: Dibromofluoromethane	107	82.4 - 122.4		%Rec	1	8/21/2024 6:03:36 PM
Surr: Toluene-d8	121	81.4 - 121.4		%Rec	1	8/21/2024 6:03:36 PM
Surr: 1-Bromo-4-fluorobenzene	110	80.1 - 120.1		%Rec	1	8/21/2024 6:03:36 PM





# Analytical Report

Work Order: 2408312  
 Date Reported: 8/28/2024

**Client:** GeoEngineers

**Collection Date:** 8/20/2024 1:30:00 PM

**Project:** 701/709 South Jackson

**Lab ID:** 2408312-003

**Matrix:** Water

**Client Sample ID:** GEI-13\_082024

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b><u>Dissolved Metals by EPA 6020B</u></b>				Batch ID: 44939		Analyst: SLL
Lead	ND	0.300		µg/L	1	8/21/2024 3:13:00 PM
<b><u>Total Metals by EPA 6020B</u></b>				Batch ID: 44989		Analyst: ME
Lead	ND	0.300		µg/L	1	8/26/2024 5:36:00 PM

**Client:** GeoEngineers  
**Project:** 701/709 South Jackson  
**Lab ID:** 2408312-004  
**Client Sample ID:** Dup\_082024

**Collection Date:** 8/20/2024

**Matrix:** Water

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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**EDB by EPA 8011**

Batch ID: 44994 Analyst: CO

1,2-Dibromoethane (EDB)	ND	0.00911		µg/L	1	8/26/2024 2:44:04 PM
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**Diesel and Heavy Oil by NWTPH-Dx**

Batch ID: 44970 Analyst: AP

Diesel Range Organics	ND	92.8		µg/L	1	8/26/2024 5:46:30 PM
Heavy Oil	ND	139		µg/L	1	8/26/2024 5:46:30 PM
Total Petroleum Hydrocarbons	ND	232		µg/L	1	8/26/2024 5:46:30 PM
Surr: 2-Fluorobiphenyl	92.6	50 - 150		%Rec	1	8/26/2024 5:46:30 PM
Surr: o-Terphenyl	96.5	50 - 150		%Rec	1	8/26/2024 5:46:30 PM

**PAHs by EPA Method 8270E SIM**

Batch ID: 44929 Analyst: RG

Naphthalene	ND	0.0931		µg/L	1	8/22/2024 4:21:11 PM
2-Methylnaphthalene	ND	0.0931		µg/L	1	8/22/2024 4:21:11 PM
1-Methylnaphthalene	ND	0.0931		µg/L	1	8/22/2024 4:21:11 PM
Surr: 2-Fluorobiphenyl	89.2	43.2 - 131		%Rec	1	8/22/2024 4:21:11 PM
Surr: Terphenyl-d14	101	46.1 - 140		%Rec	1	8/22/2024 4:21:11 PM

**Gasoline by NWTPH-Gx**

Batch ID: 44956 Analyst: FG

Gasoline Range Organics	ND	100		µg/L	1	8/23/2024 2:58:10 PM
Surr: Toluene-d8	93.7	65 - 135		%Rec	1	8/23/2024 2:58:10 PM
Surr: 4-Bromofluorobenzene	91.6	65 - 135		%Rec	1	8/23/2024 2:58:10 PM

**Volatile Organic Compounds by EPA 8260D**

Batch ID: 44941 Analyst: KJ

Methyl tert-butyl ether (MTBE)	ND	0.500		µg/L	1	8/21/2024 6:36:44 PM
1,2-Dichloroethane (EDC)	ND	0.200		µg/L	1	8/21/2024 6:36:44 PM
Benzene	ND	0.200		µg/L	1	8/21/2024 6:36:44 PM
Toluene	ND	0.500		µg/L	1	8/21/2024 6:36:44 PM
Ethylbenzene	ND	0.500		µg/L	1	8/21/2024 6:36:44 PM
m,p-Xylene	ND	1.00		µg/L	1	8/21/2024 6:36:44 PM
o-Xylene	ND	0.500		µg/L	1	8/21/2024 6:36:44 PM
Surr: Dibromofluoromethane	103	82.4 - 122.4		%Rec	1	8/21/2024 6:36:44 PM
Surr: Toluene-d8	120	81.4 - 121.4		%Rec	1	8/21/2024 6:36:44 PM
Surr: 1-Bromo-4-fluorobenzene	108	80.1 - 120.1		%Rec	1	8/21/2024 6:36:44 PM



# Analytical Report

Work Order: 2408312  
Date Reported: 8/28/2024

**Client:** GeoEngineers

**Collection Date:** 8/20/2024

**Project:** 701/709 South Jackson

**Lab ID:** 2408312-004

**Matrix:** Water

**Client Sample ID:** Dup\_082024

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b><u>Dissolved Metals by EPA 6020B</u></b>				Batch ID: 44939		Analyst: SLL
Lead	ND	0.300		µg/L	1	8/21/2024 3:15:00 PM
<b><u>Total Metals by EPA 6020B</u></b>				Batch ID: 44989		Analyst: ME
Lead	ND	0.300		µg/L	1	8/26/2024 5:38:00 PM



# Analytical Report

Work Order: 2408312  
Date Reported: 8/28/2024

**Client:** GeoEngineers

**Collection Date:** 8/19/2024 12:00:00 PM

**Project:** 701/709 South Jackson

**Lab ID:** 2408312-005

**Matrix:** Water

**Client Sample ID:** Trip Blank

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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**Gasoline by NWTPH-Gx**

Batch ID: 44941 Analyst: KJ

Gasoline Range Organics	ND	50.0		µg/L	1	8/21/2024 11:25:30 AM
Surr: Toluene-d8	67.8	65 - 135		%Rec	1	8/21/2024 11:25:30 AM
Surr: 4-Bromofluorobenzene	99.0	65 - 135		%Rec	1	8/21/2024 11:25:30 AM

**Volatile Organic Compounds by EPA 8260D**

Batch ID: 44941 Analyst: KJ

Benzene	ND	0.200		µg/L	1	8/21/2024 11:25:30 AM
Toluene	ND	0.500		µg/L	1	8/21/2024 11:25:30 AM
Ethylbenzene	ND	0.500		µg/L	1	8/21/2024 11:25:30 AM
m,p-Xylene	ND	1.00		µg/L	1	8/21/2024 11:25:30 AM
o-Xylene	ND	0.500		µg/L	1	8/21/2024 11:25:30 AM
Surr: Dibromofluoromethane	104	82.4 - 122.4		%Rec	1	8/21/2024 11:25:30 AM
Surr: Toluene-d8	118	81.4 - 121.4		%Rec	1	8/21/2024 11:25:30 AM
Surr: 1-Bromo-4-fluorobenzene	105	80.1 - 120.1		%Rec	1	8/21/2024 11:25:30 AM

**Work Order:** 2408312  
**CLIENT:** GeoEngineers  
**Project:** 701/709 South Jackson

**QC SUMMARY REPORT**  
**Dissolved Metals by EPA 6020B**

Sample ID: <b>ICB</b>	SampType: <b>ICB</b>	Units: <b>µg/L</b>	Prep Date: <b>8/21/2024</b>	RunNo: <b>93809</b>							
Client ID: <b>ICB</b>	Batch ID: <b>44939</b>	Analysis Date: <b>8/21/2024</b>	SeqNo: <b>1959087</b>								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead ND 0.300

Sample ID: <b>ICV</b>	SampType: <b>ICV</b>	Units: <b>µg/L</b>	Prep Date: <b>8/21/2024</b>	RunNo: <b>93809</b>							
Client ID: <b>ICV</b>	Batch ID: <b>44939</b>	Analysis Date: <b>8/21/2024</b>	SeqNo: <b>1959088</b>								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead 48.4 0.300 50.00 0 96.9 90 110

Sample ID: <b>CCV-A</b>	SampType: <b>CCV</b>	Units: <b>µg/L</b>	Prep Date: <b>8/21/2024</b>	RunNo: <b>93809</b>							
Client ID: <b>CCV</b>	Batch ID: <b>44939</b>	Analysis Date: <b>8/21/2024</b>	SeqNo: <b>1959042</b>								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead 48.8 0.300 50.00 0 97.5 90 110

Sample ID: <b>CCB-A</b>	SampType: <b>CCB</b>	Units: <b>µg/L</b>	Prep Date: <b>8/21/2024</b>	RunNo: <b>93809</b>							
Client ID: <b>CCB</b>	Batch ID: <b>44939</b>	Analysis Date: <b>8/21/2024</b>	SeqNo: <b>1959043</b>								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead ND 0.300

Sample ID: <b>LCS-44939</b>	SampType: <b>LCS</b>	Units: <b>µg/L</b>	Prep Date: <b>8/21/2024</b>	RunNo: <b>93809</b>							
Client ID: <b>LCSW</b>	Batch ID: <b>44939</b>	Analysis Date: <b>8/21/2024</b>	SeqNo: <b>1959045</b>								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead 55.0 0.300 50.00 0 110 80 120

Work Order: 2408312  
 CLIENT: GeoEngineers  
 Project: 701/709 South Jackson

**QC SUMMARY REPORT**  
**Dissolved Metals by EPA 6020B**

Sample ID: <b>2408246-001CDUP</b>	SampType: <b>DUP</b>	Units: <b>µg/L</b>			Prep Date: <b>8/21/2024</b>	RunNo: <b>93809</b>
Client ID: <b>BATCH</b>	Batch ID: <b>44939</b>				Analysis Date: <b>8/21/2024</b>	SeqNo: <b>1959047</b>
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Lead	ND	0.300				0 20

Sample ID: <b>2408246-001CMS</b>	SampType: <b>MS</b>	Units: <b>µg/L</b>			Prep Date: <b>8/21/2024</b>	RunNo: <b>93809</b>
Client ID: <b>BATCH</b>	Batch ID: <b>44939</b>				Analysis Date: <b>8/21/2024</b>	SeqNo: <b>1959048</b>
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Lead	48.3	0.300	50.00	0.08800	96.4	75 125

Sample ID: <b>CCV-B</b>	SampType: <b>CCV</b>	Units: <b>µg/L</b>			Prep Date: <b>8/21/2024</b>	RunNo: <b>93809</b>
Client ID: <b>CCV</b>	Batch ID: <b>44939</b>				Analysis Date: <b>8/21/2024</b>	SeqNo: <b>1959052</b>
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Lead	49.3	0.300	50.00	0	98.6	90 110

Sample ID: <b>CCB-B</b>	SampType: <b>CCB</b>	Units: <b>µg/L</b>			Prep Date: <b>8/21/2024</b>	RunNo: <b>93809</b>
Client ID: <b>CCB</b>	Batch ID: <b>44939</b>				Analysis Date: <b>8/21/2024</b>	SeqNo: <b>1959053</b>
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Lead	ND	0.300				

Sample ID: <b>CCV-C</b>	SampType: <b>CCV</b>	Units: <b>µg/L</b>			Prep Date: <b>8/21/2024</b>	RunNo: <b>93809</b>
Client ID: <b>CCV</b>	Batch ID: <b>44939</b>				Analysis Date: <b>8/21/2024</b>	SeqNo: <b>1959064</b>
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Lead	45.2	0.300	50.00	0	90.5	90 110

**Work Order:** 2408312  
**CLIENT:** GeoEngineers  
**Project:** 701/709 South Jackson

**QC SUMMARY REPORT**  
**Dissolved Metals by EPA 6020B**

Sample ID: <b>CCB-C</b>	SampType: <b>CCB</b>	Units: <b>µg/L</b>	Prep Date: <b>8/21/2024</b>	RunNo: <b>93809</b>							
Client ID: <b>CCB</b>	Batch ID: <b>44939</b>	Analysis Date: <b>8/21/2024</b>	SeqNo: <b>1959065</b>								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead ND 0.300

Sample ID: <b>CCV-D</b>	SampType: <b>CCV</b>	Units: <b>µg/L</b>	Prep Date: <b>8/21/2024</b>	RunNo: <b>93809</b>							
Client ID: <b>CCV</b>	Batch ID: <b>44939</b>	Analysis Date: <b>8/21/2024</b>	SeqNo: <b>1959072</b>								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead 47.4 0.300 50.00 0 94.8 90 110

Sample ID: <b>CCB-D</b>	SampType: <b>CCB</b>	Units: <b>µg/L</b>	Prep Date: <b>8/21/2024</b>	RunNo: <b>93809</b>							
Client ID: <b>CCB</b>	Batch ID: <b>44939</b>	Analysis Date: <b>8/21/2024</b>	SeqNo: <b>1959073</b>								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead ND 0.300

Sample ID: <b>ICB</b>	SampType: <b>ICB</b>	Units: <b>µg/L</b>	Prep Date: <b>8/22/2024</b>	RunNo: <b>93809</b>							
Client ID: <b>ICB</b>	Batch ID: <b>44939</b>	Analysis Date: <b>8/22/2024</b>	SeqNo: <b>1959760</b>								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead ND 0.300

Sample ID: <b>ICV</b>	SampType: <b>ICV</b>	Units: <b>µg/L</b>	Prep Date: <b>8/22/2024</b>	RunNo: <b>93809</b>							
Client ID: <b>ICV</b>	Batch ID: <b>44939</b>	Analysis Date: <b>8/22/2024</b>	SeqNo: <b>1959761</b>								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead 47.2 0.300 50.00 0 94.3 90 110

Work Order: 2408312  
 CLIENT: GeoEngineers  
 Project: 701/709 South Jackson

**QC SUMMARY REPORT**  
**Dissolved Metals by EPA 6020B**

Sample ID: <b>CCV-A</b>	SampType: <b>CCV</b>	Units: <b>µg/L</b>	Prep Date: <b>8/22/2024</b>	RunNo: <b>93809</b>							
Client ID: <b>CCV</b>	Batch ID: <b>44939</b>		Analysis Date: <b>8/22/2024</b>	SeqNo: <b>1959763</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	49.7	0.300	50.00	0	99.4	90	110				

Sample ID: <b>CCB-A</b>	SampType: <b>CCB</b>	Units: <b>µg/L</b>	Prep Date: <b>8/22/2024</b>	RunNo: <b>93809</b>							
Client ID: <b>CCB</b>	Batch ID: <b>44939</b>		Analysis Date: <b>8/22/2024</b>	SeqNo: <b>1959764</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.300									

Sample ID: <b>MB-44939</b>	SampType: <b>MBLK</b>	Units: <b>µg/L</b>	Prep Date: <b>8/21/2024</b>	RunNo: <b>93809</b>							
Client ID: <b>MBLKW</b>	Batch ID: <b>44939</b>		Analysis Date: <b>8/22/2024</b>	SeqNo: <b>1959765</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.300									

Sample ID: <b>CCV-B</b>	SampType: <b>CCV</b>	Units: <b>µg/L</b>	Prep Date: <b>8/22/2024</b>	RunNo: <b>93809</b>							
Client ID: <b>CCV</b>	Batch ID: <b>44939</b>		Analysis Date: <b>8/22/2024</b>	SeqNo: <b>1959767</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	49.7	0.300	50.00	0	99.3	90	110				

Sample ID: <b>CCB-B</b>	SampType: <b>CCB</b>	Units: <b>µg/L</b>	Prep Date: <b>8/22/2024</b>	RunNo: <b>93809</b>							
Client ID: <b>CCB</b>	Batch ID: <b>44939</b>		Analysis Date: <b>8/22/2024</b>	SeqNo: <b>1959768</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.300									



**Work Order:** 2408312  
**CLIENT:** GeoEngineers  
**Project:** 701/709 South Jackson

**QC SUMMARY REPORT**  
**Dissolved Metals by EPA 6020B**

Sample ID: <b>CCB-C</b>	SampType: <b>CCB</b>	Units: <b>µg/L</b>	Prep Date: <b>8/22/2024</b>	RunNo: <b>93809</b>							
Client ID: <b>CCB</b>	Batch ID: <b>44939</b>	Analysis Date: <b>8/22/2024</b>	SeqNo: <b>1959778</b>								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.300									

Sample ID: <b>CCV-C</b>	SampType: <b>CCV</b>	Units: <b>µg/L</b>	Prep Date: <b>8/22/2024</b>	RunNo: <b>93809</b>							
Client ID: <b>CCV</b>	Batch ID: <b>44939</b>	Analysis Date: <b>8/22/2024</b>	SeqNo: <b>1959779</b>								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	46.8	0.300	50.00	0	93.6	90	110				

Sample ID: <b>CCV-C</b>	SampType: <b>CCV</b>	Units: <b>µg/L</b>	Prep Date: <b>8/22/2024</b>	RunNo: <b>93809</b>							
Client ID: <b>CCV</b>	Batch ID: <b>44939</b>	Analysis Date: <b>8/22/2024</b>	SeqNo: <b>1959780</b>								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	46.9	0.300	50.00	0	93.9	90	110				

Sample ID: <b>2408247-002CMS</b>	SampType: <b>MS</b>	Units: <b>µg/L</b>	Prep Date: <b>8/21/2024</b>	RunNo: <b>93809</b>							
Client ID: <b>BATCH</b>	Batch ID: <b>44939</b>	Analysis Date: <b>8/22/2024</b>	SeqNo: <b>1959781</b>								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	42.2	0.300	50.00	0	84.5	75	125				

Sample ID: <b>2408247-002CMSD</b>	SampType: <b>MSD</b>	Units: <b>µg/L</b>	Prep Date: <b>8/21/2024</b>	RunNo: <b>93809</b>							
Client ID: <b>BATCH</b>	Batch ID: <b>44939</b>	Analysis Date: <b>8/22/2024</b>	SeqNo: <b>1959782</b>								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	40.5	0.300	50.00	0	81.0	75	125	42.24	4.20	20	

Work Order: 2408312  
 CLIENT: GeoEngineers  
 Project: 701/709 South Jackson

**QC SUMMARY REPORT**  
**Dissolved Metals by EPA 6020B**

Sample ID: <b>CCV-D</b>	SampType: <b>CCV</b>	Units: <b>µg/L</b>			Prep Date: <b>8/22/2024</b>	RunNo: <b>93809</b>					
Client ID: <b>CCV</b>	Batch ID: <b>44939</b>				Analysis Date: <b>8/22/2024</b>	SeqNo: <b>1959785</b>					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	47.1	0.300	50.00	0	94.1	90	110				

Sample ID: <b>CCV-D</b>	SampType: <b>CCV</b>	Units: <b>µg/L</b>			Prep Date: <b>8/22/2024</b>	RunNo: <b>93809</b>					
Client ID: <b>CCV</b>	Batch ID: <b>44939</b>				Analysis Date: <b>8/22/2024</b>	SeqNo: <b>1959786</b>					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	47.8	0.300	50.00	0	95.6	90	110				

Sample ID: <b>CCB-D</b>	SampType: <b>CCB</b>	Units: <b>µg/L</b>			Prep Date: <b>8/22/2024</b>	RunNo: <b>93809</b>					
Client ID: <b>CCB</b>	Batch ID: <b>44939</b>				Analysis Date: <b>8/22/2024</b>	SeqNo: <b>1959788</b>					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.300									

Work Order: 2408312  
 CLIENT: GeoEngineers  
 Project: 701/709 South Jackson

**QC SUMMARY REPORT**  
**Total Metals by EPA 6020B**

Sample ID: <b>ICB</b>	SampType: <b>ICB</b>	Units: <b>µg/L</b>			Prep Date: <b>8/26/2024</b>	RunNo: <b>93902</b>
Client ID: <b>ICB</b>	Batch ID: <b>44989</b>				Analysis Date: <b>8/26/2024</b>	SeqNo: <b>1961343</b>
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Lead ND 0.300

Sample ID: <b>ICV</b>	SampType: <b>ICV</b>	Units: <b>µg/L</b>			Prep Date: <b>8/26/2024</b>	RunNo: <b>93902</b>
Client ID: <b>ICV</b>	Batch ID: <b>44989</b>				Analysis Date: <b>8/26/2024</b>	SeqNo: <b>1961344</b>
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Lead 47.5 0.300 50.00 0 95.0 90 110

Sample ID: <b>CCV-A</b>	SampType: <b>CCV</b>	Units: <b>µg/L</b>			Prep Date: <b>8/26/2024</b>	RunNo: <b>93902</b>
Client ID: <b>CCV</b>	Batch ID: <b>44989</b>				Analysis Date: <b>8/26/2024</b>	SeqNo: <b>1961346</b>
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Lead 47.6 0.300 50.00 0 95.2 90 110

Sample ID: <b>CCB-A</b>	SampType: <b>CCB</b>	Units: <b>µg/L</b>			Prep Date: <b>8/26/2024</b>	RunNo: <b>93902</b>
Client ID: <b>CCB</b>	Batch ID: <b>44989</b>				Analysis Date: <b>8/26/2024</b>	SeqNo: <b>1961347</b>
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Lead ND 0.300

Sample ID: <b>LCS-44989</b>	SampType: <b>LCS</b>	Units: <b>µg/L</b>			Prep Date: <b>8/26/2024</b>	RunNo: <b>93902</b>
Client ID: <b>LCSW</b>	Batch ID: <b>44989</b>				Analysis Date: <b>8/26/2024</b>	SeqNo: <b>1961349</b>
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Lead 48.2 0.300 50.00 0 96.5 80 120

Work Order: 2408312  
 CLIENT: GeoEngineers  
 Project: 701/709 South Jackson

**QC SUMMARY REPORT**  
**Total Metals by EPA 6020B**

Sample ID: <b>2408401-001ADUP</b>	SampType: <b>DUP</b>	Units: <b>µg/L</b>	Prep Date: <b>8/26/2024</b>	RunNo: <b>93902</b>							
Client ID: <b>BATCH</b>	Batch ID: <b>44989</b>	Analysis Date: <b>8/26/2024</b>	SeqNo: <b>1961351</b>								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	18.2	0.300						18.53	1.96	20	

Sample ID: <b>CCV-B</b>	SampType: <b>CCV</b>	Units: <b>µg/L</b>	Prep Date: <b>8/26/2024</b>	RunNo: <b>93902</b>							
Client ID: <b>CCV</b>	Batch ID: <b>44989</b>	Analysis Date: <b>8/26/2024</b>	SeqNo: <b>1961358</b>								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	48.5	0.300	50.00	0	97.1	90	110				

Sample ID: <b>CCB-B</b>	SampType: <b>CCB</b>	Units: <b>µg/L</b>	Prep Date: <b>8/26/2024</b>	RunNo: <b>93902</b>							
Client ID: <b>CCB</b>	Batch ID: <b>44989</b>	Analysis Date: <b>8/26/2024</b>	SeqNo: <b>1961359</b>								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.300									

Sample ID: <b>2408401-001AMS</b>	SampType: <b>MS</b>	Units: <b>µg/L</b>	Prep Date: <b>8/26/2024</b>	RunNo: <b>93902</b>							
Client ID: <b>BATCH</b>	Batch ID: <b>44989</b>	Analysis Date: <b>8/26/2024</b>	SeqNo: <b>1961428</b>								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	63.2	3.00	50.00	19.25	87.9	75	125				D

Sample ID: <b>2408401-001AMSD</b>	SampType: <b>MSD</b>	Units: <b>µg/L</b>	Prep Date: <b>8/26/2024</b>	RunNo: <b>93902</b>							
Client ID: <b>BATCH</b>	Batch ID: <b>44989</b>	Analysis Date: <b>8/26/2024</b>	SeqNo: <b>1961429</b>								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	66.1	3.00	50.00	19.25	93.7	75	125	63.18	4.48	20	D

Work Order: 2408312  
 CLIENT: GeoEngineers  
 Project: 701/709 South Jackson

**QC SUMMARY REPORT**  
**Total Metals by EPA 6020B**

Sample ID: <b>CCV-C</b>	SampType: <b>CCV</b>	Units: <b>µg/L</b>	Prep Date: <b>8/26/2024</b>	RunNo: <b>93902</b>							
Client ID: <b>CCV</b>	Batch ID: <b>44989</b>		Analysis Date: <b>8/26/2024</b>	SeqNo: <b>1961432</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	48.5	0.300	50.00	0	97.0	90	110				

Sample ID: <b>CCB-C</b>	SampType: <b>CCB</b>	Units: <b>µg/L</b>	Prep Date: <b>8/26/2024</b>	RunNo: <b>93902</b>							
Client ID: <b>CCB</b>	Batch ID: <b>44989</b>		Analysis Date: <b>8/26/2024</b>	SeqNo: <b>1961433</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.300									

Sample ID: <b>CCV-D</b>	SampType: <b>CCV</b>	Units: <b>µg/L</b>	Prep Date: <b>8/26/2024</b>	RunNo: <b>93902</b>							
Client ID: <b>CCV</b>	Batch ID: <b>44989</b>		Analysis Date: <b>8/26/2024</b>	SeqNo: <b>1961447</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	48.4	0.300	50.00	0	96.7	90	110				

Sample ID: <b>CCB-D</b>	SampType: <b>CCB</b>	Units: <b>µg/L</b>	Prep Date: <b>8/26/2024</b>	RunNo: <b>93902</b>							
Client ID: <b>CCB</b>	Batch ID: <b>44989</b>		Analysis Date: <b>8/26/2024</b>	SeqNo: <b>1961448</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.300									

Sample ID: <b>CCV-F</b>	SampType: <b>CCV</b>	Units: <b>µg/L</b>	Prep Date: <b>8/26/2024</b>	RunNo: <b>93902</b>							
Client ID: <b>CCV</b>	Batch ID: <b>44989</b>		Analysis Date: <b>8/26/2024</b>	SeqNo: <b>1961623</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	47.2	0.300	50.00	0	94.3	90	110				

**Work Order:** 2408312  
**CLIENT:** GeoEngineers  
**Project:** 701/709 South Jackson

**QC SUMMARY REPORT**  
**Total Metals by EPA 6020B**

Sample ID: <b>CCB-F</b>	SampType: <b>CCB</b>	Units: <b>µg/L</b>	Prep Date: <b>8/26/2024</b>	RunNo: <b>93902</b>							
Client ID: <b>CCB</b>	Batch ID: <b>44989</b>		Analysis Date: <b>8/26/2024</b>	SeqNo: <b>1961624</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.300									

Sample ID: <b>CCV-G</b>	SampType: <b>CCV</b>	Units: <b>µg/L</b>	Prep Date: <b>8/26/2024</b>	RunNo: <b>93902</b>							
Client ID: <b>CCV</b>	Batch ID: <b>44989</b>		Analysis Date: <b>8/26/2024</b>	SeqNo: <b>1961627</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	47.1	0.300	50.00	0	94.2	90	110				

Sample ID: <b>CCB-G</b>	SampType: <b>CCB</b>	Units: <b>µg/L</b>	Prep Date: <b>8/26/2024</b>	RunNo: <b>93902</b>							
Client ID: <b>CCB</b>	Batch ID: <b>44989</b>		Analysis Date: <b>8/26/2024</b>	SeqNo: <b>1961628</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.300									

Sample ID: <b>ICB</b>	SampType: <b>ICB</b>	Units: <b>µg/L</b>	Prep Date: <b>8/27/2024</b>	RunNo: <b>93902</b>							
Client ID: <b>ICB</b>	Batch ID: <b>44989</b>		Analysis Date: <b>8/27/2024</b>	SeqNo: <b>1961936</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.300									

Sample ID: <b>ICV</b>	SampType: <b>ICV</b>	Units: <b>µg/L</b>	Prep Date: <b>8/27/2024</b>	RunNo: <b>93902</b>							
Client ID: <b>ICV</b>	Batch ID: <b>44989</b>		Analysis Date: <b>8/27/2024</b>	SeqNo: <b>1961937</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	48.7	0.300	50.00	0	97.3	90	110				

Work Order: 2408312  
 CLIENT: GeoEngineers  
 Project: 701/709 South Jackson

**QC SUMMARY REPORT**  
**Total Metals by EPA 6020B**

Sample ID: <b>CCV-A</b>	SampType: <b>CCV</b>	Units: <b>µg/L</b>			Prep Date: <b>8/27/2024</b>	RunNo: <b>93902</b>
Client ID: <b>CCV</b>	Batch ID: <b>44989</b>				Analysis Date: <b>8/27/2024</b>	SeqNo: <b>1961926</b>
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Lead	50.0	0.300	50.00	0	100	90 110

Sample ID: <b>CCB-A</b>	SampType: <b>CCB</b>	Units: <b>µg/L</b>			Prep Date: <b>8/27/2024</b>	RunNo: <b>93902</b>
Client ID: <b>CCB</b>	Batch ID: <b>44989</b>				Analysis Date: <b>8/27/2024</b>	SeqNo: <b>1961927</b>
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Lead	ND	0.300				

Sample ID: <b>MB-44989</b>	SampType: <b>MBLK</b>	Units: <b>µg/L</b>			Prep Date: <b>8/26/2024</b>	RunNo: <b>93902</b>
Client ID: <b>MBLKW</b>	Batch ID: <b>44989</b>				Analysis Date: <b>8/27/2024</b>	SeqNo: <b>1961939</b>
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Lead	ND	0.300				

Sample ID: <b>CCV-B</b>	SampType: <b>CCV</b>	Units: <b>µg/L</b>			Prep Date: <b>8/27/2024</b>	RunNo: <b>93902</b>
Client ID: <b>CCV</b>	Batch ID: <b>44989</b>				Analysis Date: <b>8/27/2024</b>	SeqNo: <b>1961942</b>
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Lead	50.4	0.300	50.00	0	101	90 110

Sample ID: <b>CCB-B</b>	SampType: <b>CCB</b>	Units: <b>µg/L</b>			Prep Date: <b>8/27/2024</b>	RunNo: <b>93902</b>
Client ID: <b>CCB</b>	Batch ID: <b>44989</b>				Analysis Date: <b>8/27/2024</b>	SeqNo: <b>1961943</b>
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Lead	ND	0.300				

**Work Order:** 2408312  
**CLIENT:** GeoEngineers  
**Project:** 701/709 South Jackson

**QC SUMMARY REPORT**  
**Total Metals by EPA 6020B**

Sample ID: <b>CCV-C</b>	SampType: <b>CCV</b>	Units: <b>µg/L</b>				Prep Date: <b>8/27/2024</b>	RunNo: <b>93902</b>				
Client ID: <b>CCV</b>	Batch ID: <b>44989</b>					Analysis Date: <b>8/27/2024</b>	SeqNo: <b>1961947</b>				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	51.2	0.300	50.00	0	102	90	110				

Sample ID: <b>CCB-C</b>	SampType: <b>CCB</b>	Units: <b>µg/L</b>				Prep Date: <b>8/27/2024</b>	RunNo: <b>93902</b>				
Client ID: <b>CCB</b>	Batch ID: <b>44989</b>					Analysis Date: <b>8/27/2024</b>	SeqNo: <b>1961948</b>				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.300									

Sample ID: <b>CCV-D</b>	SampType: <b>CCV</b>	Units: <b>µg/L</b>				Prep Date: <b>8/27/2024</b>	RunNo: <b>93902</b>				
Client ID: <b>CCV</b>	Batch ID: <b>44989</b>					Analysis Date: <b>8/27/2024</b>	SeqNo: <b>1961998</b>				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	51.1	0.300	50.00	0	102	90	110				

Sample ID: <b>CCB-D</b>	SampType: <b>CCB</b>	Units: <b>µg/L</b>				Prep Date: <b>8/27/2024</b>	RunNo: <b>93902</b>				
Client ID: <b>CCB</b>	Batch ID: <b>44989</b>					Analysis Date: <b>8/27/2024</b>	SeqNo: <b>1961999</b>				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.300									



**Work Order:** 2408312  
**CLIENT:** GeoEngineers  
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**QC SUMMARY REPORT**  
**EDB by EPA 8011**

Sample ID: <b>ICV</b>	SampType: <b>ICV</b>	Units: <b>µg/L</b>	Prep Date: <b>4/13/2022</b>	RunNo: <b>93892</b>							
Client ID: <b>ICV</b>	Batch ID: <b>44994</b>	Analysis Date: <b>8/23/2024</b>	SeqNo: <b>1961110</b>								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2-Dibromoethane (EDB)	0.997	0.0100	1.000	0	99.7	80	120				

Sample ID: <b>ICB</b>	SampType: <b>ICB</b>	Units: <b>µg/L</b>	Prep Date: <b>8/23/2024</b>	RunNo: <b>93892</b>							
Client ID: <b>ICB</b>	Batch ID: <b>44994</b>	Analysis Date: <b>8/23/2024</b>	SeqNo: <b>1961111</b>								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2-Dibromoethane (EDB)	ND	0.0100									

Sample ID: <b>8011-CCV-44994A</b>	SampType: <b>CCV</b>	Units: <b>µg/L</b>	Prep Date: <b>8/26/2024</b>	RunNo: <b>93915</b>							
Client ID: <b>CCV</b>	Batch ID: <b>44994</b>	Analysis Date: <b>8/26/2024</b>	SeqNo: <b>1961500</b>								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2-Dibromoethane (EDB)	0.947	0.0100	1.000	0	94.7	80	120				

Sample ID: <b>MB-44994</b>	SampType: <b>MBLK</b>	Units: <b>µg/L</b>	Prep Date: <b>8/26/2024</b>	RunNo: <b>93915</b>							
Client ID: <b>MBLKW</b>	Batch ID: <b>44994</b>	Analysis Date: <b>8/26/2024</b>	SeqNo: <b>1961490</b>								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2-Dibromoethane (EDB)	ND	0.0100									

Sample ID: <b>LCS-44994</b>	SampType: <b>LCS</b>	Units: <b>µg/L</b>	Prep Date: <b>8/26/2024</b>	RunNo: <b>93915</b>							
Client ID: <b>LCSW</b>	Batch ID: <b>44994</b>	Analysis Date: <b>8/26/2024</b>	SeqNo: <b>1961491</b>								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2-Dibromoethane (EDB)	0.246	0.00996	0.2489	0	99.0	67.6	150				

**Work Order:** 2408312  
**CLIENT:** GeoEngineers  
**Project:** 701/709 South Jackson

**QC SUMMARY REPORT**  
**EDB by EPA 8011**

Sample ID: <b>LCSD-44994</b>		SampType: <b>LCSD</b>		Units: <b>µg/L</b>		Prep Date: <b>8/26/2024</b>		RunNo: <b>93915</b>			
Client ID: <b>LCSW02</b>		Batch ID: <b>44994</b>				Analysis Date: <b>8/26/2024</b>		SeqNo: <b>1961492</b>			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2-Dibromoethane (EDB)	0.259	0.00997	0.2494	0	104	67.6	150	0.2463	4.93	20	

Sample ID: <b>8011-CCV-44994B</b>		SampType: <b>CCV</b>		Units: <b>µg/L</b>		Prep Date: <b>8/26/2024</b>		RunNo: <b>93915</b>			
Client ID: <b>CCV</b>		Batch ID: <b>44994</b>				Analysis Date: <b>8/26/2024</b>		SeqNo: <b>1961499</b>			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2-Dibromoethane (EDB)	0.953	0.0100	1.000	0	95.3	80	120				

**Work Order:** 2408312  
**CLIENT:** GeoEngineers  
**Project:** 701/709 South Jackson

**QC SUMMARY REPORT**  
**Diesel and Heavy Oil by NWTPH-Dx**

Sample ID: <b>HO ICB</b>	SampType: <b>ICB</b>	Units: <b>mg/Kg</b>			Prep Date: <b>4/9/2024</b>	RunNo: <b>90866</b>					
Client ID: <b>ICB</b>	Batch ID: <b>44970</b>				Analysis Date: <b>4/9/2024</b>	SeqNo: <b>1894779</b>					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Heavy Oil	ND	100									
Surr: 2-Fluorobiphenyl	10.3		10.00		103	50	150				
Surr: o-Terphenyl	10.3		10.00		103	50	150				

Sample ID: <b>HO ICV</b>	SampType: <b>ICV</b>	Units: <b>mg/Kg</b>			Prep Date: <b>4/9/2024</b>	RunNo: <b>90866</b>					
Client ID: <b>ICV</b>	Batch ID: <b>44970</b>				Analysis Date: <b>4/9/2024</b>	SeqNo: <b>1894787</b>					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Heavy Oil	584	100	500.0	0	117	70	130				
Surr: 2-Fluorobiphenyl	9.88		10.00		98.8	50	150				
Surr: o-Terphenyl	9.93		10.00		99.3	50	150				

Sample ID: <b>DX ICB</b>	SampType: <b>ICB</b>	Units: <b>mg/Kg</b>			Prep Date: <b>4/9/2024</b>	RunNo: <b>90866</b>					
Client ID: <b>ICB</b>	Batch ID: <b>44970</b>				Analysis Date: <b>4/9/2024</b>	SeqNo: <b>1894788</b>					
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	9.97		10.00		99.7	50	150				
Surr: o-Terphenyl	10.6		10.00		106	50	150				

Sample ID: <b>DX ICV</b>	SampType: <b>ICV</b>	Units: <b>mg/Kg</b>			Prep Date: <b>4/9/2024</b>	RunNo: <b>90866</b>					
Client ID: <b>ICV</b>	Batch ID: <b>44970</b>				Analysis Date: <b>4/9/2024</b>	SeqNo: <b>1894796</b>					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel Range Organics	478	50.0	500.0	0	95.6	70	130				
Surr: 2-Fluorobiphenyl	9.42		10.00		94.2	50	150				
Surr: o-Terphenyl	11.6		10.00		116	50	150				

**Work Order:** 2408312  
**CLIENT:** GeoEngineers  
**Project:** 701/709 South Jackson

**QC SUMMARY REPORT**  
**Diesel and Heavy Oil by NWTPH-Dx**

Sample ID: <b>OIL-CCV-44970A</b>	SampType: <b>CCV</b>	Units: <b>µg/L</b>				Prep Date: <b>8/26/2024</b>	RunNo: <b>93895</b>				
Client ID: <b>CCV</b>	Batch ID: <b>44970</b>					Analysis Date: <b>8/26/2024</b>	SeqNo: <b>1961199</b>				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Heavy Oil	439	150	500.0	0	87.7	85	115				
Surr: 2-Fluorobiphenyl	9.18		10.00		91.8	50	150				
Surr: o-Terphenyl	9.04		10.00		90.4	50	150				

Sample ID: <b>DX-CCV-44970A</b>	SampType: <b>CCV</b>	Units: <b>µg/L</b>				Prep Date: <b>8/26/2024</b>	RunNo: <b>93895</b>				
Client ID: <b>CCV</b>	Batch ID: <b>44970</b>					Analysis Date: <b>8/26/2024</b>	SeqNo: <b>1961200</b>				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel Range Organics	461	100	500.0	0	92.3	85	115				
Surr: 2-Fluorobiphenyl	8.71		10.00		87.1	50	150				
Surr: o-Terphenyl	10.3		10.00		103	50	150				

Sample ID: <b>MB-44970</b>	SampType: <b>MBLK</b>	Units: <b>µg/L</b>				Prep Date: <b>8/23/2024</b>	RunNo: <b>93895</b>				
Client ID: <b>MBLKW</b>	Batch ID: <b>44970</b>					Analysis Date: <b>8/26/2024</b>	SeqNo: <b>1961201</b>				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel Range Organics	ND	94.1									
Heavy Oil	ND	141									
Total Petroleum Hydrocarbons	ND	235									
Surr: 2-Fluorobiphenyl	18.6		23.53		79.0	50	150				
Surr: o-Terphenyl	18.9		23.53		80.5	50	150				

Sample ID: <b>LCS-44970</b>	SampType: <b>LCS</b>	Units: <b>µg/L</b>				Prep Date: <b>8/23/2024</b>	RunNo: <b>93895</b>				
Client ID: <b>LCSW</b>	Batch ID: <b>44970</b>					Analysis Date: <b>8/26/2024</b>	SeqNo: <b>1961202</b>				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Petroleum Hydrocarbons	756	232	1,162	0	65.1	42.5	123				
Surr: 2-Fluorobiphenyl	17.3		23.23		74.3	50	150				
Surr: o-Terphenyl	21.8		23.23		93.8	50	150				

**Work Order:** 2408312  
**CLIENT:** GeoEngineers  
**Project:** 701/709 South Jackson

**QC SUMMARY REPORT**  
**Diesel and Heavy Oil by NWTPH-Dx**

Sample ID: <b>LCS-D-44970</b>	SampType: <b>LCS-D</b>	Units: <b>µg/L</b>				Prep Date: <b>8/23/2024</b>	RunNo: <b>93895</b>				
Client ID: <b>LCSW02</b>	Batch ID: <b>44970</b>					Analysis Date: <b>8/26/2024</b>	SeqNo: <b>1961203</b>				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Petroleum Hydrocarbons	770	233	1,167	0	66.0	42.5	123	755.9	1.87	30	
Surr: 2-Fluorobiphenyl	17.8		23.34		76.3	50	150		0		
Surr: o-Terphenyl	21.4		23.34		91.9	50	150		0		

Sample ID: <b>OIL-CCV-44970B</b>	SampType: <b>CCV</b>	Units: <b>µg/L</b>				Prep Date: <b>8/26/2024</b>	RunNo: <b>93895</b>				
Client ID: <b>CCV</b>	Batch ID: <b>44970</b>					Analysis Date: <b>8/26/2024</b>	SeqNo: <b>1961205</b>				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Heavy Oil	572	150	500.0	0	114	85	115				
Surr: 2-Fluorobiphenyl	11.0		10.00		110	50	150				
Surr: o-Terphenyl	11.0		10.00		110	50	150				

Sample ID: <b>DX-CCV-44970B</b>	SampType: <b>CCV</b>	Units: <b>µg/L</b>				Prep Date: <b>8/26/2024</b>	RunNo: <b>93895</b>				
Client ID: <b>CCV</b>	Batch ID: <b>44970</b>					Analysis Date: <b>8/26/2024</b>	SeqNo: <b>1961206</b>				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel Range Organics	467	100	500.0	0	93.5	85	115				
Surr: 2-Fluorobiphenyl	8.67		10.00		86.7	50	150				
Surr: o-Terphenyl	10.4		10.00		104	50	150				

Sample ID: <b>OIL-CCV-44970C</b>	SampType: <b>CCV</b>	Units: <b>µg/L</b>				Prep Date: <b>8/26/2024</b>	RunNo: <b>93895</b>				
Client ID: <b>CCV</b>	Batch ID: <b>44970</b>					Analysis Date: <b>8/26/2024</b>	SeqNo: <b>1961569</b>				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Heavy Oil	482	150	500.0	0	96.4	85	115				
Surr: 2-Fluorobiphenyl	9.01		10.00		90.1	50	150				
Surr: o-Terphenyl	8.95		10.00		89.5	50	150				

**Work Order:** 2408312  
**CLIENT:** GeoEngineers  
**Project:** 701/709 South Jackson

**QC SUMMARY REPORT**  
**Diesel and Heavy Oil by NWTPH-Dx**

Sample ID: <b>DX-CCV-44970C</b>	SampType: <b>CCV</b>	Units: <b>µg/L</b>	Prep Date: <b>8/26/2024</b>	RunNo: <b>93895</b>							
Client ID: <b>CCV</b>	Batch ID: <b>44970</b>		Analysis Date: <b>8/26/2024</b>	SeqNo: <b>1961570</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Diesel Range Organics	475	100	500.0	0	95.0	85	115				
Surr: 2-Fluorobiphenyl	8.39		10.00		83.9	50	150				
Surr: o-Terphenyl	10.3		10.00		103	50	150				

Work Order: 2408312  
 CLIENT: GeoEngineers  
 Project: 701/709 South Jackson

**QC SUMMARY REPORT**  
**PAHs by EPA Method 8270E SIM**

Sample ID: <b>PAH ICB</b>	SampType: <b>ICB</b>	Units: <b>µg/L</b>			Prep Date: <b>7/25/2024</b>	RunNo: <b>93268</b>					
Client ID: <b>ICB</b>	Batch ID: <b>44929</b>				Analysis Date: <b>7/25/2024</b>	SeqNo: <b>1946821</b>					
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	527		500.0		105	50.4	142				
Surr: Terphenyl-d14 (surr)	564		500.0		113	48.8	157				

Sample ID: <b>PAH ICV</b>	SampType: <b>ICV</b>	Units: <b>µg/L</b>			Prep Date: <b>7/25/2024</b>	RunNo: <b>93268</b>					
Client ID: <b>ICV</b>	Batch ID: <b>44929</b>				Analysis Date: <b>7/25/2024</b>	SeqNo: <b>1946822</b>					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Naphthalene	939	20.0	1,000	0	93.9	70	130				
2-Methylnaphthalene	952	20.0	1,000	0	95.2	70	130				
1-Methylnaphthalene	934	20.0	1,000	0	93.4	70	130				
Surr: 2-Fluorobiphenyl	471		500.0		94.3	60.9	160				
Surr: Terphenyl-d14 (surr)	521		500.0		104	62.2	159				

Sample ID: <b>CCV-44929A</b>	SampType: <b>CCV</b>	Units: <b>µg/L</b>			Prep Date: <b>8/21/2024</b>	RunNo: <b>93851</b>					
Client ID: <b>CCV</b>	Batch ID: <b>44929</b>				Analysis Date: <b>8/21/2024</b>	SeqNo: <b>1960082</b>					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Naphthalene	931	0.100	1,000	0	93.1	80	120				
2-Methylnaphthalene	922	0.100	1,000	0	92.2	80	120				
1-Methylnaphthalene	927	0.100	1,000	0	92.7	80	120				
Surr: 2-Fluorobiphenyl	474		500.0		94.7	70.2	145				
Surr: Terphenyl-d14	516		500.0		103	71.3	142				

Work Order: 2408312  
 CLIENT: GeoEngineers  
 Project: 701/709 South Jackson

**QC SUMMARY REPORT**  
**PAHs by EPA Method 8270E SIM**

Sample ID: <b>MB-44929</b>	SampType: <b>MBLK</b>	Units: <b>µg/L</b>	Prep Date: <b>8/20/2024</b>	RunNo: <b>93851</b>							
Client ID: <b>MBLKW</b>	Batch ID: <b>44929</b>		Analysis Date: <b>8/21/2024</b>	SeqNo: <b>1960083</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Naphthalene	ND	0.0944									
2-Methylnaphthalene	ND	0.0944									
1-Methylnaphthalene	ND	0.0944									
Surr: 2-Fluorobiphenyl	2.09		2.360		88.4	12.8	129				
Surr: Terphenyl-d14	2.26		2.360		95.9	12.7	150				

Sample ID: <b>LCS-44929</b>	SampType: <b>LCS</b>	Units: <b>µg/L</b>	Prep Date: <b>8/20/2024</b>	RunNo: <b>93851</b>							
Client ID: <b>LCSW</b>	Batch ID: <b>44929</b>		Analysis Date: <b>8/21/2024</b>	SeqNo: <b>1960084</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Naphthalene	0.161	0.0941	0.2352	0	68.3	42.2	95.7				
2-Methylnaphthalene	0.150	0.0941	0.2352	0	63.8	40.9	100				
1-Methylnaphthalene	0.161	0.0941	0.2352	0	68.4	40.4	102				
Surr: 2-Fluorobiphenyl	0.0820		0.1176		69.8	43.2	131				
Surr: Terphenyl-d14	0.0984		0.1176		83.6	46.1	140				

Sample ID: <b>LCSD-44929</b>	SampType: <b>LCSD</b>	Units: <b>µg/L</b>	Prep Date: <b>8/20/2024</b>	RunNo: <b>93851</b>							
Client ID: <b>LCSW02</b>	Batch ID: <b>44929</b>		Analysis Date: <b>8/21/2024</b>	SeqNo: <b>1960085</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Naphthalene	0.172	0.0936	0.2340	0	73.4	42.2	95.7	0.1606	6.68	30	
2-Methylnaphthalene	0.163	0.0936	0.2340	0	69.6	40.9	100	0.1502	8.09	30	
1-Methylnaphthalene	0.171	0.0936	0.2340	0	72.9	40.4	102	0.1608	5.90	30	
Surr: 2-Fluorobiphenyl	0.0887		0.1170		75.8	43.2	131		0		
Surr: Terphenyl-d14	0.102		0.1170		86.8	46.1	140		0		



**Work Order:** 2408312  
**CLIENT:** GeoEngineers  
**Project:** 701/709 South Jackson

**QC SUMMARY REPORT**  
**PAHs by EPA Method 8270E SIM**

Sample ID: <b>CCV-44929B</b>	SampType: <b>CCV</b>	Units: <b>µg/L</b>	Prep Date: <b>8/22/2024</b>	RunNo: <b>93851</b>							
Client ID: <b>CCV</b>	Batch ID: <b>44929</b>		Analysis Date: <b>8/22/2024</b>	SeqNo: <b>1960087</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Naphthalene	869	0.100	1,000	0	86.9	80	120				
2-Methylnaphthalene	816	0.100	1,000	0	81.6	80	120				
1-Methylnaphthalene	836	0.100	1,000	0	83.6	80	120				
Surr: 2-Fluorobiphenyl	385		500.0		76.9	70.2	145				
Surr: Terphenyl-d14	414		500.0		82.8	71.3	142				

**Work Order:** 2408312  
**CLIENT:** GeoEngineers  
**Project:** 701/709 South Jackson

**QC SUMMARY REPORT**  
**Gasoline by NWTPH-Gx**

Sample ID: <b>ICB</b>	SampType: <b>ICB</b>	Units: <b>µg/L</b>				Prep Date: <b>8/22/2024</b>	RunNo: <b>93890</b>				
Client ID: <b>ICB</b>	Batch ID: <b>44941</b>					Analysis Date: <b>8/22/2024</b>	SeqNo: <b>1961048</b>				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics	60.5	50.0									
Surr: Toluene-d8	23.5		25.00		94.1	65	135				
Surr: 4-Bromofluorobenzene	23.3		25.00		93.4	65	135				

Sample ID: <b>ICV</b>	SampType: <b>ICV</b>	Units: <b>µg/L</b>				Prep Date: <b>8/22/2024</b>	RunNo: <b>93890</b>				
Client ID: <b>ICV</b>	Batch ID: <b>44941</b>					Analysis Date: <b>8/22/2024</b>	SeqNo: <b>1961049</b>				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics	467	50.0	500.0	0	93.4	80	120				
Surr: Toluene-d8	23.9		25.00		95.6	65	135				
Surr: 4-Bromofluorobenzene	24.0		25.00		96.1	65	135				

Sample ID: <b>GX-CCV-A</b>	SampType: <b>CCV</b>	Units: <b>µg/L</b>				Prep Date: <b>8/23/2024</b>	RunNo: <b>93932</b>				
Client ID: <b>CCV</b>	Batch ID: <b>44956</b>					Analysis Date: <b>8/23/2024</b>	SeqNo: <b>1961832</b>				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics	524	50.0	500.0	0	105	80	120				
Surr: Toluene-d8	24.2		25.00		96.9	65	135				
Surr: 4-Bromofluorobenzene	24.5		25.00		97.8	65	135				

Sample ID: <b>LCS-44956</b>	SampType: <b>LCS</b>	Units: <b>µg/L</b>				Prep Date: <b>8/22/2024</b>	RunNo: <b>93932</b>				
Client ID: <b>LCSW</b>	Batch ID: <b>44956</b>					Analysis Date: <b>8/23/2024</b>	SeqNo: <b>1961841</b>				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics	524	100	500.0	0	105	65	135				
Surr: Toluene-d8	24.2		25.00		96.9	65	135				
Surr: 4-Bromofluorobenzene	24.5		25.00		97.8	65	135				

**Work Order:** 2408312  
**CLIENT:** GeoEngineers  
**Project:** 701/709 South Jackson

**QC SUMMARY REPORT**  
**Gasoline by NWTPH-Gx**

Sample ID: <b>MB-44956</b>	SampType: <b>MBLK</b>	Units: <b>µg/L</b>			Prep Date: <b>8/22/2024</b>	RunNo: <b>93932</b>					
Client ID: <b>MBLKW</b>	Batch ID: <b>44956</b>				Analysis Date: <b>8/23/2024</b>	SeqNo: <b>1961833</b>					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics	ND	100									
Surr: Toluene-d8	23.6		25.00		94.5	65	135				
Surr: 4-Bromofluorobenzene	22.8		25.00		91.1	65	135				

Sample ID: <b>GX-CCV-B</b>	SampType: <b>CCV</b>	Units: <b>µg/L</b>			Prep Date: <b>8/23/2024</b>	RunNo: <b>93932</b>					
Client ID: <b>CCV</b>	Batch ID: <b>44956</b>				Analysis Date: <b>8/23/2024</b>	SeqNo: <b>1961840</b>					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics	487	50.0	500.0	0	97.4	80	120				
Surr: Toluene-d8	24.4		25.00		97.7	65	135				
Surr: 4-Bromofluorobenzene	24.6		25.00		98.5	65	135				

Work Order: 2408312  
 CLIENT: GeoEngineers  
 Project: 701/709 South Jackson

**QC SUMMARY REPORT**  
**Volatile Organic Compounds by EPA 8260D**

Sample ID: <b>ICB</b>	SampType: <b>ICB</b>	Units: <b>µg/L</b>			Prep Date: <b>8/17/2024</b>	RunNo: <b>93722</b>					
Client ID: <b>ICB</b>	Batch ID: <b>44941</b>				Analysis Date: <b>8/17/2024</b>	SeqNo: <b>1957307</b>					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	ND	0.0250									
1,2-Dichloroethane (EDC)	0.0284	0.0250									
Benzene	ND	0.0120									
Toluene	ND	0.0250									
Ethylbenzene	ND	0.0250									
m,p-Xylene	ND	0.0500									
o-Xylene	ND	0.0250									
Surr: Dibromofluoromethane	25.1		25.00		100	80	120				
Surr: Toluene-d8	25.5		25.00		102	80	120				
Surr: 1-Bromo-4-fluorobenzene	26.2		25.00		105	80	120				

Sample ID: <b>ICV</b>	SampType: <b>ICV</b>	Units: <b>µg/L</b>			Prep Date: <b>8/17/2024</b>	RunNo: <b>93722</b>					
Client ID: <b>ICV</b>	Batch ID: <b>44941</b>				Analysis Date: <b>8/17/2024</b>	SeqNo: <b>1957308</b>					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	19.6	0.0250	20.00	0	98.2	70	130				
1,2-Dichloroethane (EDC)	21.4	0.0250	20.00	0	107	70	130				
Benzene	20.8	0.0120	20.00	0	104	70	130				
Toluene	21.2	0.0250	20.00	0	106	70	130				
Ethylbenzene	20.7	0.0250	20.00	0	103	70	130				
m,p-Xylene	41.7	0.0500	40.00	0	104	70	130				
o-Xylene	21.1	0.0250	20.00	0	105	70	130				
Surr: Dibromofluoromethane	26.4		25.00		105	80	120				
Surr: Toluene-d8	25.3		25.00		101	80	120				
Surr: 1-Bromo-4-fluorobenzene	24.4		25.00		97.5	80	120				

Sample ID: <b>VOC-CCV-93964A</b>	SampType: <b>CCV</b>	Units: <b>µg/L</b>			Prep Date: <b>8/21/2024</b>	RunNo: <b>93964</b>					
Client ID: <b>CCV</b>	Batch ID: <b>44941</b>				Analysis Date: <b>8/21/2024</b>	SeqNo: <b>1962388</b>					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	20.5	0.500	20.00	0	103	80	120				

Work Order: 2408312  
 CLIENT: GeoEngineers  
 Project: 701/709 South Jackson

**QC SUMMARY REPORT**  
**Volatile Organic Compounds by EPA 8260D**

Sample ID: <b>VOC-CCV-93964A</b>	SampType: <b>CCV</b>	Units: <b>µg/L</b>				Prep Date: <b>8/21/2024</b>	RunNo: <b>93964</b>				
Client ID: <b>CCV</b>	Batch ID: <b>44941</b>					Analysis Date: <b>8/21/2024</b>	SeqNo: <b>1962388</b>				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2-Dichloroethane (EDC)	22.8	0.200	20.00	0	114	80	120				
Benzene	23.5	0.200	20.00	0	118	80	120				
Toluene	24.0	0.500	20.00	0	120	80	120				
Ethylbenzene	21.0	0.500	20.00	0	105	80	120				
m,p-Xylene	41.2	1.00	40.00	0	103	80	120				
o-Xylene	21.1	0.500	20.00	0	105	80	120				
Surr: Dibromofluoromethane	29.6		25.00		118	80	120				
Surr: Toluene-d8	27.8		25.00		111	80	120				
Surr: 1-Bromo-4-fluorobenzene	24.9		25.00		99.4	80	120				

Sample ID: <b>LCS-44941</b>	SampType: <b>LCS</b>	Units: <b>µg/L</b>				Prep Date: <b>8/21/2024</b>	RunNo: <b>93964</b>				
Client ID: <b>LCSW</b>	Batch ID: <b>44941</b>					Analysis Date: <b>8/21/2024</b>	SeqNo: <b>1962402</b>				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	20.5	0.500	20.00	0	103	80	120				
1,2-Dichloroethane (EDC)	22.8	0.200	20.00	0	114	80	120				
Benzene	23.5	0.200	20.00	0	118	80	120				
Toluene	24.0	0.500	20.00	0	120	80	120				
Ethylbenzene	21.0	0.500	20.00	0	105	80	120				
m,p-Xylene	41.2	1.00	40.00	0	103	80	120				
o-Xylene	21.1	0.500	20.00	0	105	80	120				
Surr: Dibromofluoromethane	29.6		25.00		118	82.4	122.4				
Surr: Toluene-d8	27.8		25.00		111	81.4	121.4				
Surr: 1-Bromo-4-fluorobenzene	24.9		25.00		99.4	80.1	120.1				

Sample ID: <b>MB-44941</b>	SampType: <b>MBLK</b>	Units: <b>µg/L</b>				Prep Date: <b>8/21/2024</b>	RunNo: <b>93964</b>				
Client ID: <b>MBLKW</b>	Batch ID: <b>44941</b>					Analysis Date: <b>8/21/2024</b>	SeqNo: <b>1962389</b>				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	ND	0.500									
1,2-Dichloroethane (EDC)	ND	0.200									

Work Order: 2408312  
 CLIENT: GeoEngineers  
 Project: 701/709 South Jackson

**QC SUMMARY REPORT**  
**Volatile Organic Compounds by EPA 8260D**

Sample ID: <b>MB-44941</b>	SampType: <b>MBLK</b>	Units: <b>µg/L</b>			Prep Date: <b>8/21/2024</b>	RunNo: <b>93964</b>					
Client ID: <b>MBLKW</b>	Batch ID: <b>44941</b>				Analysis Date: <b>8/21/2024</b>	SeqNo: <b>1962389</b>					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	ND	0.200									
Toluene	ND	0.500									
Ethylbenzene	ND	0.500									
m,p-Xylene	ND	1.00									
o-Xylene	ND	0.500									
Surr: Dibromofluoromethane	25.5		25.00		102	80	120				
Surr: Toluene-d8	29.1		25.00		116	80	120				
Surr: 1-Bromo-4-fluorobenzene	26.4		25.00		106	80	120				

Sample ID: <b>2408312-001ADUP</b>	SampType: <b>DUP</b>	Units: <b>µg/L</b>			Prep Date: <b>8/21/2024</b>	RunNo: <b>93964</b>					
Client ID: <b>GEI-11_082024</b>	Batch ID: <b>44941</b>				Analysis Date: <b>8/21/2024</b>	SeqNo: <b>1962393</b>					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	ND	0.500						0		30	
1,2-Dichloroethane (EDC)	ND	0.200						0		30	
Benzene	ND	0.200						0		30	
Toluene	ND	0.500						0		30	
Ethylbenzene	ND	0.500						0		30	
m,p-Xylene	ND	1.00						0		30	
o-Xylene	ND	0.500						0		30	
Surr: Dibromofluoromethane	26.2		25.00		105	82.4	122.4		0		
Surr: Toluene-d8	29.0		25.00		116	81.4	121.4		0		
Surr: 1-Bromo-4-fluorobenzene	27.4		25.00		110	80.1	120.1		0		

Sample ID: <b>2408312-002AMS</b>	SampType: <b>MS</b>	Units: <b>µg/L</b>			Prep Date: <b>8/21/2024</b>	RunNo: <b>93964</b>					
Client ID: <b>GEI-12_082024</b>	Batch ID: <b>44941</b>				Analysis Date: <b>8/21/2024</b>	SeqNo: <b>1962401</b>					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	26.9	0.500	20.00	0	135	66.3	142				
1,2-Dichloroethane (EDC)	28.2	0.200	20.00	0	141	70.5	134				S
Benzene	27.1	0.200	20.00	0	136	71.5	141				

**Work Order:** 2408312  
**CLIENT:** GeoEngineers  
**Project:** 701/709 South Jackson

**QC SUMMARY REPORT**  
**Volatile Organic Compounds by EPA 8260D**

Sample ID: <b>2408312-002AMS</b>	SampType: <b>MS</b>	Units: <b>µg/L</b>	Prep Date: <b>8/21/2024</b>	RunNo: <b>93964</b>							
Client ID: <b>GEI-12_082024</b>	Batch ID: <b>44941</b>		Analysis Date: <b>8/21/2024</b>	SeqNo: <b>1962401</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Toluene	27.9	0.500	20.00	0	139	70.9	138				S
Ethylbenzene	21.7	0.500	20.00	0	108	77.1	130				
m,p-Xylene	41.8	1.00	40.00	0	104	75.7	131				
o-Xylene	20.6	0.500	20.00	0	103	73	132				
Surr: Dibromofluoromethane	31.5		25.00		126	82.4	122.4				S
Surr: Toluene-d8	29.7		25.00		119	81.4	121.4				
Surr: 1-Bromo-4-fluorobenzene	25.5		25.00		102	80.1	120.1				

**NOTES:**

S - Outlying spike recoveries were associated with this sample.

Client Name: GEI	Work Order Number: 2408312
Logged by: Morgan Wilson	Date Received: 8/20/2024 3:20:00 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   
HCL
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	5.4

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



