



AMC Engineering PLLC

18-36 42nd Street
Astoria, NY 11105
Phone: (718) 545-0474

January 17, 2025

Tracey Garland, G.I.T.
Remedial Bureau C, Section E
Project Manager
New York State Department of Environmental Conservation
625 Broadway, 12th Floor
Albany, NY 12233-7014
tracey.garland@dec.ny.gov

Re: Soil Vapor Intrusion Evaluation Report
218 Front Street, Brooklyn, NY
Kings County
Site No. 224063

Dear Mr. Garland:

Attached is the Soil Vapor Intrusion Evaluation Report (SVIER) for 218 Front Street prepared by AMC Engineering PLLC (AMC). This report summarizes the indoor air, outdoor air, and sub-slab sample results that were collected on November 25th, 2024, to evaluate vapor intrusion potential in accordance with the approved March 2024 Soil Vapor Intrusion Evaluation Work Plan for this site.

If you have any questions or comments regarding the attached report, please do not hesitate to contact me.

Very truly yours,

Ariel Czemerinski, PE
AMC Engineering, PLLC

Cc: David Salamon, Chess Builders LLC
Ariel Czemerinski, AMC ariel@amc-engineering.com

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Background

The Site currently consists of a 7-story mixed use development with a cellar located on Block 55 and Lot 20 in Brooklyn, NY. The entire footprint of the building is capped with concrete and contains a vapor barrier to protect against soil vapor intrusion. The cellar contains a parking garage, utility rooms, and amenities areas. Based on a review of the Desktop Soil Vapor Intrusion Evaluation by NYSDEC, the Department requested that an evaluation for soil vapor intrusion be conducted within the amenities spaces.

A Soil Vapor Intrusion Evaluation Work Plan was submitted to and approved by the NYSDEC and NYSDOH in March 2024 to conduct a post-construction investigation for 218 Front Street. The work plan was written in accordance with the NYSDOH's *Guidance for Evaluating Soil Vapor Intrusion in the State of New York*, dated October 2006 and subsequent updates. The plan consisted of the collection of indoor air, sub-slab vapor, outdoor air, and associated quality assurance and quality control samples.

Vapor Intrusion Sampling

On November 25th, 2024, AMC mobilized on-site to perform sampling under the supervision of the NYSDEC in accordance with the Soil Vapor Intrusion Evaluation Work Plan. Prior to sample collection, a pre-sampling inspection was performed and the *New York State Department of Health Indoor Air Quality Questionnaire and Building Inventory* was filled out, shown in **Appendix A**. No products containing compounds of concern were found in the amenities spaces that needed to be removed before the sampling event. The locations of sub-slab vapor samples SS-1 and SS-2 proposed in the work plan were not feasible in the field due to the layout of the building. With the approval of the NYSDEC, samples SS-1 and SS-2 were moved to the parking garage within 10 feet of their co-located indoor air samples. The sample locations are shown in **Figure 1**.

A total of four (4) indoor air samples, two (2) sub-slab samples, one (1) outdoor air sample, and one (1) duplicate were collected to determine the potential of vapor intrusion into the Site building. The outdoor air sample and indoor air samples were collected from elevated locations to simulate air conditions found in the breathing zone. The heating in the building was turned on, and all windows and doors were closed to prevent outdoor air from entering the building. Samples were collected using 6.0-liter vacuum canisters equipped with laboratory-supplied regulators calibrated to collect a sample over an 8-hour period (for indoor air and ambient air). The air quality samples were submitted to Phoenix Environmental Laboratories (Manchester, CT) for volatile organic carbon (VOCs) analysis via USEPA Method TO-15.

Results

The results of the sampling were compared to the applicable Soil Vapor/ Indoor Air Matrices A, B, C, D, E, and F of the New York State Department of Health (NYSDOH), Soil Vapor Intrusion (SVI) Guidance for evaluating vapor intrusion in New York State. When analyzing the relationship between indoor air concentrations and corresponding sub-slab vapor concentrations,

all of the pairs reveal that no further action is required. Further action is not necessary because the volatile chemicals are not detected above minimal values in the indoor air samples, and the concentrations detected in the corresponding sub-slab vapor samples are not expected to substantially affect indoor air quality.

Lab report details are provided in Appendix B. Figure 1 shows the sub-slab, indoor air, and outdoor air sampling locations across the Site. Table 1 illustrates the results of the air sampling compared to the NYSDOH Soil Vapor/ Indoor Air Matrices.

Summary and Conclusions

Based on the laboratory results, when compared to the NYSDOH Decision Matrices, all parameters fall below NFA guidance, therefore no further action is warranted with respect to sub-slab and indoor air evaluation.

Table 1: Sub-Slab, Indoor Air, and Outdoor Air Sampling Results for 218 Front St.

Phoenix Environmental Laboratories, Inc.
587 East Middle Turnpike
P.O. Box 370
Manchester, CT 06040
(860) 645-1102

Project Id : 218 FRONT STREET

		Lab Sample Id		Collection Date		Client Id		Matrix		CS16245			CS16247			CS16244			CS16246			CS16250			CS16248			CS16251			CS16249		
		CAS		Units	Soil Vapor (IA)	Soil Vapor (SS)	Result	RL		Result	RL		Result	RL		Result	RL		Result	RL		Result	RL		Result	RL		Result	RL		Result	RL	
		Volatiles (TO15) By TO15																															
Matrix																																	
A	Trichloroethene	79-01-6	ug/m3	1	6	<0.20	0.20	1		<0.99	0.99	1	<0.20	0.20	1	<0.99	0.99	1	0.78	0.20	2	<0.20	0.20	1	0.2	0.20		<0.20	0.20	1	<0.20	0.20	1
A	Cis-1,2-Dichloroethene	156-59-2	ug/m3	1	6	<0.20	0.20	1		<1.00	1.00	1	<0.20	0.20	1	<1.00	1.00	1	<0.20	0.20	1	<0.20	0.20	1	<0.20	0.20		<0.20	0.20	1	<0.20	0.20	1
A	1,1-Dichloroethene	75-35-4	ug/m3	1	6	<0.20	0.20	1		<1.00	1.00	1	<0.20	0.20	1	<1.00	1.00	1	<0.20	0.20	1	<0.20	0.20	1	<0.20	0.20		<0.20	0.20	1	<0.20	0.20	1
A	Carbon Tetrachloride	56-23-5	ug/m3	1	6	0.49	0.20	2		<1.00	1.00	2	0.47	0.20	2	<1.00	1.00	2	0.49	0.20	2	0.47	0.20	2	0.48	0.20		0.48	0.20	2	0.48	0.20	2
B	Tetrachloroethene	127-18-4	ug/m3	3	100	<0.25	0.25	4		299	1.25	4	<0.25	0.25	1	31	1.25	1	2.65	0.25	1	<0.25	0.25	1	1.01	0.25		<0.25	0.25	1	<0.25	0.25	1
B	1,1,1-Trichloroethane	71-55-6	ug/m3	3	100	<1.00	1.00	1		<5.00	5.00	1	<1.00	1.00	1	<5.00	5.00	1	<1.00	1.00	1	<1.00	1.00	1	<1.00	1.00		<1.00	1.00	1	<1.00	1.00	1
B	Methylene Chloride	75-09-2	ug/m3	3	100	<3.00	3.00	1		<15.0	15.0	1	<3.00	3.00	1	<15.0	15.0	1	<3.00	3.00	1	<3.00	3.00	1	<3.00	3.00		<3.00	3.00	1	<3.00	3.00	1
C	Vinyl Chloride	75-01-4	ug/m3	0.2	6	<0.20	0.20	1		<1.00	1.00	1	<0.20	0.20	1	<1.00	1.00	1	<0.20	0.20	1	<0.20	0.20	1	<0.20	0.20		<0.20	0.20	1	<0.20	0.20	1
D	Benzene	71-43-2	ug/m3	2	60	<1.00	1.00	1		10.2	5.01	1	1.97	1.00	1	7.66	5.01	1	<1.00	1.00	1	1.34	1.00	1	<1.00	1.00		<1.00	1.00	1	<1.00	1.00	1
D	Ethylbenzene	100-41-4	ug/m3	2	60	<1.00	1.00	1		<4.99	4.99	1	1.12	1.00	1	<4.99	4.99	1	<1.00	1.00	1	<1.00	1.00	1	<1.00	1.00		<1.00	1.00	1	<1.00	1.00	1
D	Naphthalene	91-20-3	ug/m3	2	60	<1.05	1.05	1		<5.23	5.23	1	<1.05	1.05	1	<5.23	5.23	1	<1.05	1.05	1	<1.05	1.05	1	<1.05	1.05		<1.05	1.05	1	<1.05	1.05	1
D	Cyclohexane	110-82-7	ug/m3	2	60	<1.00	1.00	1		6.67	4.99	1	<1.00	1.00	1	6.26	4.99	1	<1.00	1.00	1	<1.00	1.00	1	<1.00	1.00		<1.00	1.00	1	<1.00	1.00	1
D	Isocotane	540-84-1	ug/m3	2	60	<1.00	1.00	1		<4.99	4.99	1	1.58	1.00	1	<4.99	4.99	1	<1.00	1.00	1	<1.00	1.00	1	<1.00	1.00		<1.00	1.00	1	<1.00	1.00	1
D	1,2,4-Trimethylbenzene	95-63-6	ug/m3	2	60	<1.00	1.00	1		<5.01	5.01	1	<1.00	1.00	1	<5.01	5.01	1	<1.00	1.00	1	<1.00	1.00	1	<1.00	1.00		<1.00	1.00	1	<1.00	1.00	1
D	1,3,5-Trimethylbenzene	108-67-8	ug/m3	2	60	<1.00	1.00	1		<5.01	5.01	1	<1.00	1.00	1	<5.01	5.01	1	<1.00	1.00	1	<1.00	1.00	1	<1.00	1.00		<1.00	1.00	1	<1.00	1.00	1
D	o-Xylene	95-47-6	ug/m3	2	60	<1.00	1.00	1		<4.99	4.99	1	1.35	1.00	1	<4.99	4.99	1	<1.00	1.00	1	<1.00	1.00	1	<1.00	1.00		<1.00	1.00	1	<1.00	1.00	1
E	m,p-Xylene	179601-23-1	ug/m3	6	200	<1.00	1.00	1		5.38	4.99	1	4.09	1.00	1	5.12	4.99	1	1.09	1.00	1	1.38	1.00	1	<1.00	1.00		<1.00	1.00	1	1.12	1.00	1
F	Heptane	142-82-5	ug/m3	6	200	<1.00	1.00	1		5.2	5.00	1	<1.00	1.00	1	<5.00	5.00	1	<1.00	1.00	1	<1.00	1.00	1	<1.00	1.00		<1.00	1.00	1	<1.00	1.00	1
E	Hexane	110-54-3	ug/m3	6	200	<1.00	1.00	1		10.4	5.00	1	1.45	1.00	1	5.92	5.00	1	<1.00	1.00	1	<1.00	1.00	1	<1.00	1.00		<1.00	1.00	1	<1.00	1.00	1
F	Toluene	108-88-3	ug/m3	10	300	4.18	1.00	1		8.06	5.01	1	3.88	1.00	1	7.53	5.01	1	4.26	1.00	1	2.3	1.00	1	1.47	1.00		4.29	1.00	1	4.29	1.00	1

NO FURTHER ACTION
MONITOR
IDENTIFY SOURCES AND RESAMPLE OR MITIGATE
MITIGATE



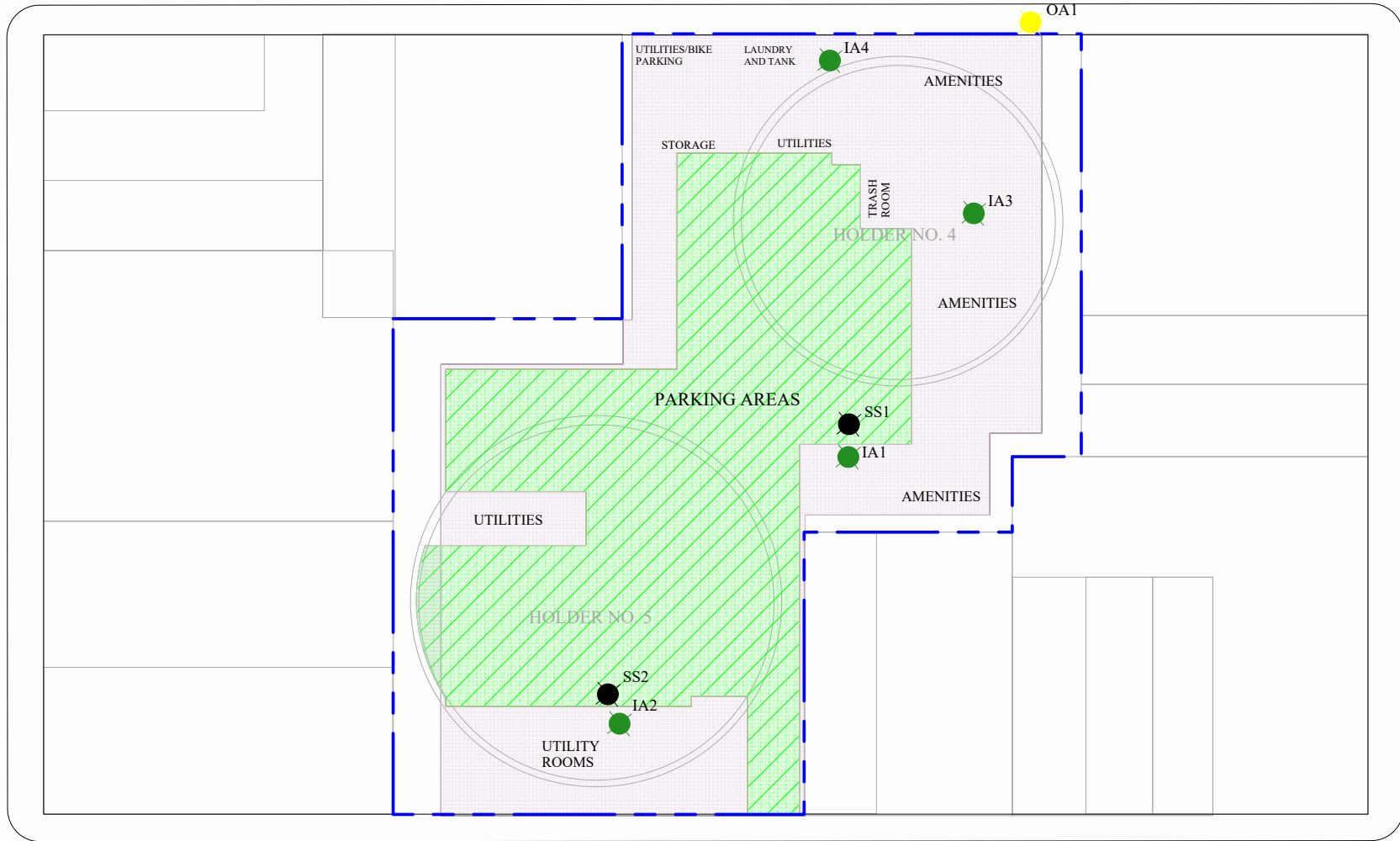
Figure 1: Site Sampling Location

FRONT ST.

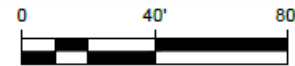


GOLD ST.

BRIDGE ST.



YORK ST.



LEGEND

	PROPERTY LINE
	PARKING AREA
	CELLAR LEVEL
	OUTDOOR AIR SAMPLE
	INDOOR AIR SAMPLE
	SUB-SLAB SAMPLE

NOTES:

1. AS PER THE MARCH 2024 SOIL VAPOR INTRUSION EVALUATION WORK PLAN, ONE (1) OUTDOOR AIR SAMPLE, FOUR (4) INDOOR AIR SAMPLES, AND TWO (2) SUB-SLAB AIR SAMPLES WERE COLLECTED.
2. THE LOCATIONS OF SUB-SLAB SAMPLES SS1 AND SS2 THAT WERE PROPOSED IN THE WORK PLAN WERE NOT FEASIBLE IN THE FIELD DUE TO THE BUILDING LAYOUT. WITH APPROVAL FROM THE DEC, SAMPLES SS1 AND SS2 WERE MOVED TO BE TAKEN IN THE PARKING GARAGE WITHIN 10 FEET OF THEIR CO-LOCATED INDOOR AIR SAMPLES. THE UPDATED LOCATIONS OF SS1 AND SS2 ARE SHOWN IN THIS FIGURE.



AMC ENGINEERING PLLC
18-36 42ND STREET
ASTORIA, NY 11105
718-545-0474

PROJECT:
218 FRONT STREET

DATE:
NOV. 25, 2024

DRAWING BY:
AK

TITLE:
FIGURE 1 - SITE SAMPLING LOCATION



Appendix A: Soil Vapor Intrusion – Structure Sampling Building Questionnaire

NEW YORK STATE DEPARTMENT OF HEALTH INDOOR AIR QUALITY
QUESTIONNAIRE AND BUILDING INVENTORY CENTER FOR ENVIRONMENTAL
HEALTH

This form must be completed for each residence involved in indoor air testing.

Preparer's Name Aaliyah Kaushal Date/Time Prepared 11/25/24 Preparer's

Affiliation Amc Engineering Phone No. (718) 545-0474

Purpose of Investigation Indoor Air Evaluation

1. OCCUPANT: Interviewed:

Y / ☒ N

Last Name: _____ First Name: _____ Address: _____

County: _____ Home

Phone: _____ Office Phone: _____ Number of Occupants/persons at this

location _____ Age of Occupants _____

2. OWNER OR LANDLORD: (Check if same as occupant ☐) Interviewed:

Y / ☒ N

Last Name: _____ First Name: _____ Address: _____

County: _____ Home

Phone: _____ Office Phone: _____

3. BUILDING CHARACTERISTICS Type of Building:

(Circle appropriate response)

☒ Residential ☒ School ☐ Commercial/Multi-use ☐ Industrial ☐ Church Other: _____

If the property is residential, type? (Circle appropriate response)

Ranch 2-Family 3-Family Raised Ranch Split Level Colonial Cape Cod Contemporary Mobile Home Duplex
Apartment House Townhouses/Condos Modular Log Home Other: _____

If multiple units, how many? 220

If the property is commercial, type?

Business Type(s) 2 commercial units Does it include residences (i.e., multi-use)? Y

N If yes, how many? 220

Other characteristics:

Number of floors 7 Building age _____ Is the building insulated? Y / N How air tight? Tight / Average /

Not Tight

4. AIRFLOW Use air current tubes or tracer smoke to evaluate airflow patterns and qualitatively describe:

Water in sump? Y / N (not applicable) Basement/lowest level depth below grade: _____ (feet, inches)

Airflow between floors points and approximate size (e.g., cracks, utility ports, drains)

none

Airflow near source

HEATING, VENTING and AIR CONDITIONING (Circle all that apply / Type of system)

Systems used by this building: (check all that apply - not primary)

Hot oil circulation Heat pump Hot water baseboard Radiant Heaters Steam circulation Radiant Heat Electric
baseboard Wood stove Outdoor wood boiler Other _____

Outdoor air infiltration is used in:

Central Gas Fuel Oil Kerosene Baseboard Propane Solar Wood Coal

Geothermal hot water tank fueled by: _____

Water source located in: Basement Gardens Main Floor Other _____

Infiltration into air ducts

Air conditioning: Central Air Window units Open Windows None

5. BASEMENT AND CONSTRUCTION CHARACTERISTICS (Circle all that apply)

a. Above grade construction: wood frame concrete stone brick

b. Basement type: full crawlspace slab other _____

c. Basement floor: concrete dirt stone other _____

d. Basement floor: uncovered covered covered with _____

e. Concrete floor: unsealed sealed sealed with _____

f. Foundation walls: poured block stone other _____

g. Foundation walls: unsealed sealed sealed with _____

h. The basement is: wet damp dry moldy

i. The basement is: finished unfinished partially finished

j. Sump present? Y / N

k. Water in sump? Y / N / not applicable Basement/Lowest level depth below grade: _____ (feet) Identify

potential soil vapor entry points and approximate size (e.g., cracks, utility ports, drains)

none

6. HEATING, VENTING and AIR CONDITIONING (Circle all that apply) Type of heating

system(s) used in this building: (circle all that apply – note primary)

Hot air circulation Heat pump Hot water baseboard Space Heaters Stream radiation Radiant floor Electric
baseboard Wood stove Outdoor wood boiler Other _____

The primary type of fuel used is:

Natural Gas Fuel Oil Kerosene Electric Propane Solar Wood Coal

Domestic hot water tank fueled by: _____

Boiler/furnace located in: Basement Outdoors Main Floor Other _____

Air conditioning: Central Air Window units Open Windows None

Are there air distribution ducts present? Y / N

Describe the supply and cold air return ductwork, and its condition where visible, including whether there is a cold air return and the tightness of duct joints. Indicate the locations on the floor plan diagram.

7. OCCUPANCY Is basement/lowest level occupied? Full-time Occasionally Seldom Almost Never Level General

Use of Each Floor (e.g., familyroom, bedroom, laundry, workshop, storage)

Basement Occasional 1st Floor
Full-Time 2nd Floor
Full-Time 3rd Floor
Full-Time 4th Floor
Full-time

8. FACTORS THAT MAY INFLUENCE INDOOR AIR QUALITY

a. Is there an attached garage? Y / N

b. Does the garage have a separate heating unit? Y / N / NA

c. Are petroleum-powered machines or vehicles Y / N / NA stored in the garage (e.g., lawnmower, atv, car)
Please specify CARS

d. Has the building ever had a fire? Y / N When? _____

e. Is a kerosene or unvented gas space heater present? Y / N Where? _____

f. Is there a workshop or hobby/craft area? Y / N Where & Type? _____

g. Is there smoking in the building? Y / N How frequently? _____

h. Have cleaning products been used recently? Y / N When & Type? _____

i. Have cosmetic products been used recently? Y / N When & Type? _____

j. Has painting/staining been done in the last 6 months? Y / N Where & When? _____

k. Is there new carpet, drapes or other textiles? Y / N Where & When? _____

l. Have air fresheners been used recently? Y / N When & Type? _____

m. Is there a kitchen exhaust fan? Y / N If yes, where vented? _____

n. Is there a bathroom exhaust fan? Y / N If yes, where vented? _____

o. Is there a clothes dryer? Y / N If yes, is it vented outside? Y / N

p. Has there been a pesticide application? Y / N When & Type? _____

10. Are there any painting or other job done at work? Y / N If yes, what kind of paint or other material is used? _____

11. What type of paint is used? _____

12. Are there clothes washed at work? Y / N

13. Do any of the building occupants regularly use or work at a dry-cleaning service? (Circle appropriate response)

Yes, use dry-cleaning regularly (weekly) No Yes, use dry-cleaning infrequently (monthly or less than monthly)
Yes, what is a dry-cleaning service? _____

14. Is there a radon mitigation system for the building/structure? Y / N Date of installation: _____ Is the system active or passive? Active/Passive

15. WATER AND SEWAGE: Water Supply: Public Water (Drill Well) Other: _____
Sewage Disposal: Public Sewer (Septic Tank) Other: _____

16. RELOCATION INFORMATION: (for all residential emergency)

a. Provide reasons why relocation is recommended: _____

b. How many choose to remain in home relative to friends/family relative to relocation? _____

c. Compensation for costs associated with reimbursement explained? Y / N

d. Relocation package provided and explained to residents? Y / N

17. OTHER PLANS

Are there odors in the building? Y ☒ N

If yes, please describe:

Do any of the building occupants use solvents at work? Y ☒ N (e.g., chemical manufacturing or laboratory, auto mechanic or auto body shop, painting, fuel oil delivery, boiler mechanic, pesticide application, cosmetologist)

If yes, what types of solvents are used? _____

If yes, are their clothes washed at work? Y / N

Do any of the building occupants regularly use or work at a dry-cleaning service? (Circle appropriate response)

Yes, use dry-cleaning regularly (weekly) No Yes, use dry-cleaning infrequently (monthly or less) Unknown
Yes, work at a dry-cleaning service

Is there a radon mitigation system for the building/structure? Y / N Date of Installation: _____ Is the system active or passive? Active/Passive

9. WATER AND SEWAGE Water Supply: Public Water Drilled Well Driven Well Dug Well Other: _____

Sewage Disposal: Public Sewer Septic Tank Leach Field Dry Well Other: _____

10. RELOCATION INFORMATION (for oil spill residential emergency)

a. Provide reasons why relocation is recommended: _____

b. Residents choose to: remain in home relocate to friends/family relocate to hotel/motel

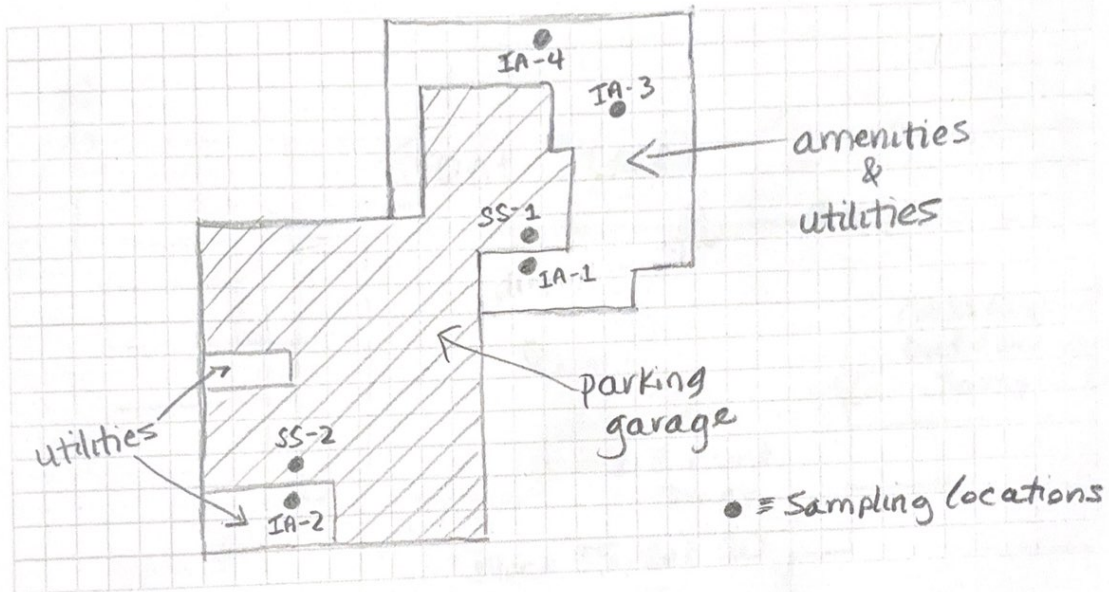
c. Responsibility for costs associated with reimbursement explained? Y / N

d. Relocation package provided and explained to residents? Y / N

11. FLOOR PLANS

Draw a plan view sketch of the basement and first floor of the building. Indicate air sampling locations, possible indoor air pollution sources and PID meter readings. If the building does not have a basement, please note.

Basement:



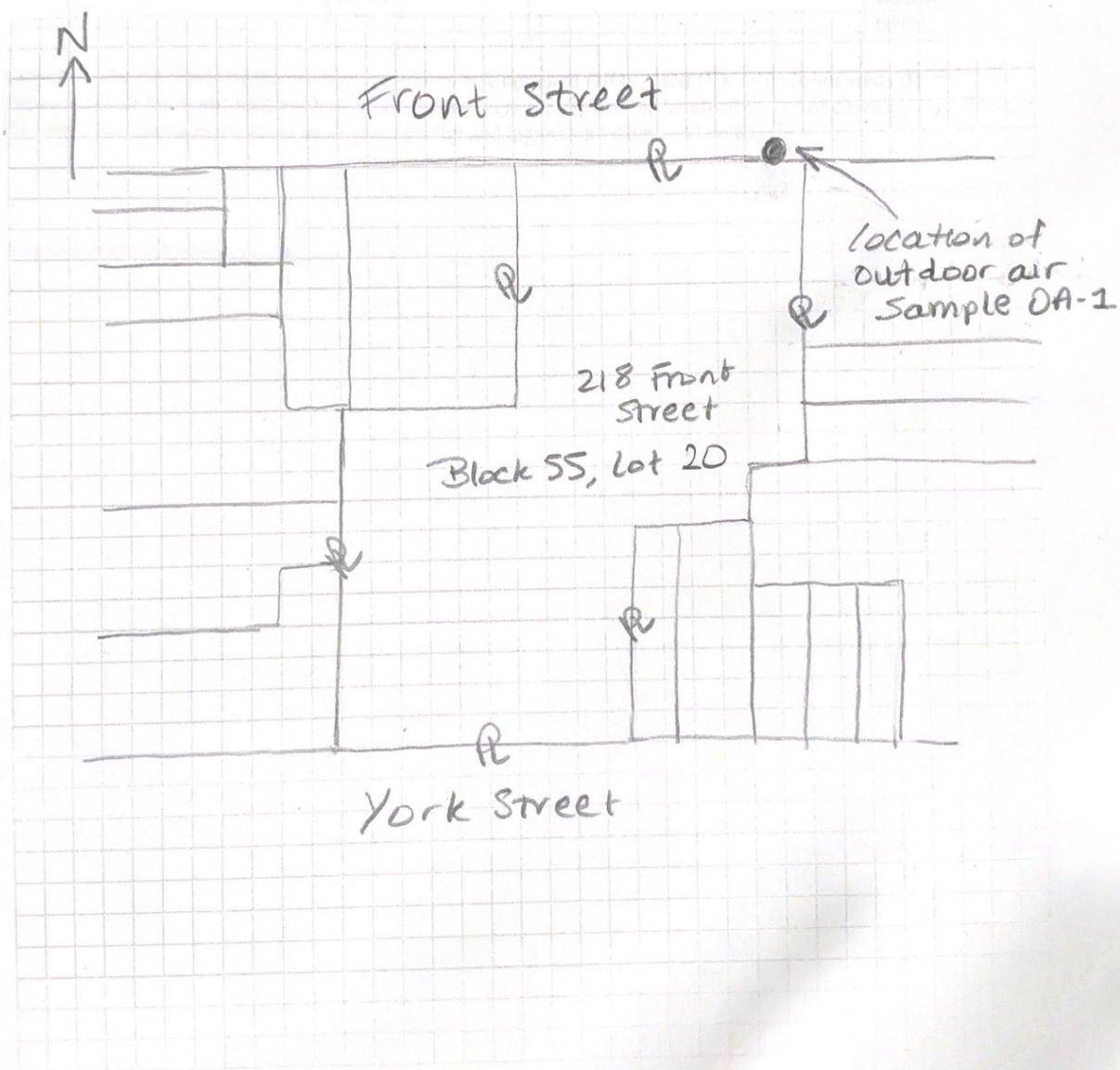
First Floor:

No sampling was performed on the 1st floor.

- No sources of potential air pollution were identified.
- 1st floor residential lobby of apartment building consists of hallway, elevator, and areas of temporary occupancy
- 1st floor commercial consists of 2 units currently unoccupied.

Draw a sketch of the area surrounding the building being sampled. If applicable, provide information on spill locations, potential air contamination sources (industries, gas stations, repair shops, landfills, etc.), outdoor air sampling location(s) and PID meter readings.

Also indicate compass direction, wind direction and speed during sampling, the locations of the well and septic system, if applicable, and a qualifying statement to help locate the site on a topographic map.



13. PRODUCT INVENTORY FORM Make & Model of field instrument used:

_____ List specific products found in the residence that have the potential to affect indoor air quality.

Location	Product Description	Size (units)	Condition*	Chemical Ingredients	Field Instrument Reading (units)	Photo ** Y / N

* Describe the condition of the product containers as **Unopened (UO)**, **Used (U)**, or **Deteriorated (D)** **
Photographs of the **front and back** of product containers can replace the handwritten list of chemical ingredients.
However, the photographs must be of good quality and ingredient labels must be legible.



Appendix B: Phoenix Laboratory Data **Package**



587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040
Telephone: 860.645.1102 • Fax: 860.645.0823

NY ANALYTICAL SERVICES PROTOCOL DATA PACKAGE

AMC Engineering PLLC
218 FRONT STREET

GCS16244

Ver 1

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Friday, December 20, 2024

Attn: Ariel Czemerinski
AMC Engineering PLLC
18-36 42nd Street
Astoria, NY 11105

Project ID: 218 FRONT STREET
SDG ID: GCS16244
Sample ID#s: CS16244 - CS16251

This laboratory is in compliance with the NELAC requirements of procedures used except where indicated.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory. This report is incomplete unless all pages indicated in the pagination at the bottom of the page are included.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Sincerely yours,

A handwritten signature in black ink, appearing to read "Phyllis Shiller".

Phyllis Shiller
Laboratory Director

NELAC - #NY11301
CT Lab Registration #PH-0618
MA Lab Registration #M-CT007
ME Lab Registration #CT-007
NH Lab Registration #213693-A,B

NJ Lab Registration #CT-003
NY Lab Registration #11301
PA Lab Registration #68-03530
RI Lab Registration #63
VT Lab Registration #VT11301



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823



**NY ANALYTICAL SERVICES PROTOCOL
DATA PACKAGE**

**Client: AMC Engineering PLLC
Project: 218 FRONT STREET
Laboratory Project: GCS16244**



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06040
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NY Analytical Services Protocol Format

December 20, 2024

SDG I.D.: GCS16244

AMC Engineering PLLC 218 FRONT STREET

Methodology Summary

Volatiles in Air

Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air: Method TO-15, Second Edition, U. S. Environmental Protection Agency, January 1999.



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NY Analytical Services Protocol Format

December 20, 2024

SDG I.D.: GCS16244

AMC Engineering PLLC 218 FRONT STREET

Laboratory Chronicle

Sample	Analysis	Collection Date	Prep Date	Analysis Date	Analyst	Hold Time Met
CS16244	Volatiles (TO15)	11/25/24	11/26/24	11/26/24	AW	Y
CS16245	Volatiles (TO15)	11/25/24	11/26/24	11/26/24	AW	Y
CS16246	Volatiles (TO15)	11/25/24	11/27/24	11/27/24	AW	Y
CS16247	Volatiles (TO15)	11/25/24	11/27/24	11/27/24	AW	Y
CS16248	Volatiles (TO15)	11/25/24	11/26/24	11/26/24	AW	Y
CS16249	Volatiles (TO15)	11/25/24	11/26/24	11/26/24	AW	Y
CS16250	Volatiles (TO15)	11/25/24	11/26/24	11/26/24	AW	Y
CS16251	Volatiles (TO15)	11/25/24	11/26/24	11/26/24	AW	Y



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SDG Comments

December 20, 2024

SDG I.D.: GCS16244

Any compound that is not detected above the MDL/LOD is reported as ND on the report and is reported in the electronic deliverables (EDD) as <RL or U at the RL per state and EPA guidance.

Version 1: Analysis results minus raw data.

Version 2: Complete report with raw data.



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Sample Id Cross Reference

December 20, 2024

SDG I.D.: GCS16244

Project ID: 218 FRONT STREET

Client Id	Lab Id	Matrix
IA-2	CS16244	AIR
IA-1	CS16245	AIR
SS-2	CS16246	AIR
SS-1	CS16247	AIR
IA-4	CS16248	AIR
DUPLICATE	CS16249	AIR
IA-3	CS16250	AIR
OA-1	CS16251	AIR



Environmental Laboratories, Inc.
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Analysis Report

December 20, 2024

FOR: Attn: Ariel Czemerinski
AMC Engineering PLLC
18-36 42nd Street
Astoria, NY 11105

Sample Information

Matrix: AIR
Location Code: AMC-ENG
Rush Request: Standard
P.O.#:
Canister Id: 19806

Custody Information

Collected by: AE
Received by: CP
Analyzed by: see "By" below

Date Time
11/25/24 17:18
11/26/24 17:46

Laboratory Data

SDG ID: GCS16244
Phoenix ID: CS16244

Project ID: 218 FRONT STREET
Client ID: IA-2

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution
Volatiles (TO15)									
1,1,1,2-Tetrachloroethane	ND	0.146	0.146	ND	1.00	1.00	11/26/24	AW	1
1,1,1-Trichloroethane	ND	0.183	0.183	ND	1.00	1.00	11/26/24	AW	1
1,1,2,2-Tetrachloroethane	ND	0.146	0.146	ND	1.00	1.00	11/26/24	AW	1
1,1,2-Trichloroethane	ND	0.183	0.183	ND	1.00	1.00	11/26/24	AW	1
1,1-Dichloroethane	ND	0.247	0.247	ND	1.00	1.00	11/26/24	AW	1
1,1-Dichloroethene	ND	0.051	0.051	ND	0.20	0.20	11/26/24	AW	1
1,2,4-Trichlorobenzene	ND	0.135	0.135	ND	1.00	1.00	11/26/24	AW	1
1,2,4-Trimethylbenzene	ND	0.204	0.204	ND	1.00	1.00	11/26/24	AW	1
1,2-Dibromoethane(EDB)	ND	0.130	0.130	ND	1.00	1.00	11/26/24	AW	1
1,2-Dichlorobenzene	ND	0.166	0.166	ND	1.00	1.00	11/26/24	AW	1
1,2-Dichloroethane	ND	0.247	0.247	ND	1.00	1.00	11/26/24	AW	1
1,2-dichloropropane	ND	0.217	0.217	ND	1.00	1.00	11/26/24	AW	1
1,2-Dichlorotetrafluoroethane	ND	0.143	0.143	ND	1.00	1.00	11/26/24	AW	1
1,3,5-Trimethylbenzene	ND	0.204	0.204	ND	1.00	1.00	11/26/24	AW	1
1,3-Butadiene	ND	0.452	0.452	ND	1.00	1.00	11/26/24	AW	1
1,3-Dichlorobenzene	ND	0.166	0.166	ND	1.00	1.00	11/26/24	AW	1
1,4-Dichlorobenzene	ND	0.166	0.166	ND	1.00	1.00	11/26/24	AW	1
1,4-Dioxane	ND	0.278	0.278	ND	1.00	1.00	11/26/24	AW	1
2-Hexanone(MBK)	ND	0.244	0.244	ND	1.00	1.00	11/26/24	AW	1
4-Ethyltoluene	ND	0.204	0.204	ND	1.00	1.00	11/26/24	AW	1
4-Isopropyltoluene	ND	0.182	0.182	ND	1.00	1.00	11/26/24	AW	1
4-Methyl-2-pentanone(MIBK)	ND	0.244	0.244	ND	1.00	1.00	11/26/24	AW	1
Acetone	12.7	0.421	0.421	30.1	1.00	1.00	11/26/24	AW	1
Acrylonitrile	ND	0.461	0.461	ND	1.00	1.00	11/26/24	AW	1
Benzene	0.617	0.313	0.313	1.97	1.00	1.00	11/26/24	AW	1
Benzyl chloride	ND	0.193	0.193	ND	1.00	1.00	11/26/24	AW	1

Client ID: IA-2

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution
Bromodichloromethane	ND	0.149	0.149	ND	1.00	1.00	11/26/24	AW	1
Bromoform	ND	0.097	0.097	ND	1.00	1.00	11/26/24	AW	1
Bromomethane	ND	0.258	0.258	ND	1.00	1.00	11/26/24	AW	1
Carbon Disulfide	ND	0.321	0.321	ND	1.00	1.00	11/26/24	AW	1
Carbon Tetrachloride	0.075	0.032	0.032	0.47	0.20	0.20	11/26/24	AW	1
Chlorobenzene	ND	0.217	0.217	ND	1.00	1.00	11/26/24	AW	1
Chloroethane	ND	0.379	0.379	ND	1.00	1.00	11/26/24	AW	1
Chloroform	ND	0.205	0.205	ND	1.00	1.00	11/26/24	AW	1
Chloromethane	0.626	0.485	0.485	1.29	1.00	1.00	11/26/24	AW	1
Cis-1,2-Dichloroethene	ND	0.051	0.051	ND	0.20	0.20	11/26/24	AW	1
cis-1,3-Dichloropropene	ND	0.221	0.221	ND	1.00	1.00	11/26/24	AW	1
Cyclohexane	ND	0.291	0.291	ND	1.00	1.00	11/26/24	AW	1
Dibromochloromethane	ND	0.118	0.118	ND	1.00	1.00	11/26/24	AW	1
Dichlorodifluoromethane	0.449	0.202	0.202	2.22	1.00	1.00	11/26/24	AW	1
Ethanol	17.1	0.531	0.531	32.2	1.00	1.00	11/26/24	AW	1
Ethyl acetate	ND	0.278	0.278	ND	1.00	1.00	11/26/24	AW	1
Ethylbenzene	0.259	0.230	0.230	1.12	1.00	1.00	11/26/24	AW	1
Heptane	ND	0.244	0.244	ND	1.00	1.00	11/26/24	AW	1
Hexachlorobutadiene	ND	0.094	0.094	ND	1.00	1.00	11/26/24	AW	1
Hexane	0.413	0.284	0.284	1.45	1.00	1.00	11/26/24	AW	1
Isooctane	0.339	0.215	0.215	1.58	1.00	1.00	11/26/24	AW	1
Isopropylalcohol	0.777	0.407	0.407	1.91	1.00	1.00	11/26/24	AW	1
Isopropylbenzene	ND	0.204	0.204	ND	1.00	1.00	11/26/24	AW	1
m,p-Xylene	0.942	0.230	0.230	4.09	1.00	1.00	11/26/24	AW	1
Methyl Ethyl Ketone	ND	0.339	0.339	ND	1.00	1.00	11/26/24	AW	1
Methyl tert-butyl ether(MTBE)	ND	0.278	0.278	ND	1.00	1.00	11/26/24	AW	1
Methylene Chloride	ND	0.863	0.863	ND	3.00	3.00	11/26/24	AW	1
Naphthalene	ND	0.200	0.200	ND	1.05	1.05	11/26/24	AW	1
n-Butylbenzene	ND	0.182	0.182	ND	1.00	1.00	11/26/24	AW	1
o-Xylene	0.310	0.230	0.230	1.35	1.00	1.00	11/26/24	AW	1
Propylene	ND	0.581	0.581	ND	1.00	1.00	11/26/24	AW	1
sec-Butylbenzene	ND	0.182	0.182	ND	1.00	1.00	11/26/24	AW	1
Styrene	ND	0.235	0.235	ND	1.00	1.00	11/26/24	AW	1
Tetrachloroethene	ND	0.037	0.037	ND	0.25	0.25	11/26/24	AW	1
Tetrahydrofuran	ND	0.339	0.339	ND	1.00	1.00	11/26/24	AW	1
Toluene	1.03	0.266	0.266	3.88	1.00	1.00	11/26/24	AW	1
Trans-1,2-Dichloroethene	ND	0.252	0.252	ND	1.00	1.00	11/26/24	AW	1
trans-1,3-Dichloropropene	ND	0.221	0.221	ND	1.00	1.00	11/26/24	AW	1
Trichloroethene	ND	0.037	0.037	ND	0.20	0.20	11/26/24	AW	1
Trichlorofluoromethane	0.208	0.178	0.178	1.17	1.00	1.00	11/26/24	AW	1
Trichlorotrifluoroethane	ND	0.131	0.131	ND	1.00	1.00	11/26/24	AW	1
Vinyl Chloride	ND	0.078	0.078	ND	0.20	0.20	11/26/24	AW	1
<u>QA/QC Surrogates/Internals</u>									
% Bromofluorobenzene	96	%	%	96	%	%	11/26/24	AW	1
% IS-1,4-Difluorobenzene	95	%	%	95	%	%	11/26/24	AW	1
% IS-Bromochloromethane	96	%	%	96	%	%	11/26/24	AW	1
% IS-Chlorobenzene-d5	94	%	%	94	%	%	11/26/24	AW	1

Client ID: IA-2

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution

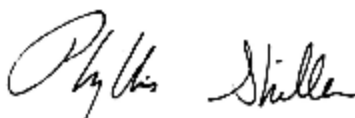
1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected BRL=Below Reporting Level L=Biased Low LOD=Limit of Detection MDL=Method Detection Limit1

QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

December 20, 2024

Reviewed and Released by: Rashmi Makol, Project Manager



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102



Analysis Report

December 20, 2024

FOR: Attn: Ariel Czemerinski
AMC Engineering PLLC
18-36 42nd Street
Astoria, NY 11105

Sample Information

Matrix: AIR
Location Code: AMC-ENG
Rush Request: Standard
P.O.#:
Canister Id: 23344

Custody Information

Collected by: AE
Received by: CP
Analyzed by: see "By" below

Date Time
11/25/24 17:05
11/26/24 17:46

Laboratory Data

SDG ID: GCS16244
Phoenix ID: CS16245

Project ID: 218 FRONT STREET
Client ID: IA-1

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution	
<u>Volatiles (TO15)</u>										
1,1,1,2-Tetrachloroethane	ND	0.146	0.146	ND	1.00	1.00	11/26/24	AW	1	1
1,1,1-Trichloroethane	ND	0.183	0.183	ND	1.00	1.00	11/26/24	AW	1	
1,1,2,2-Tetrachloroethane	ND	0.146	0.146	ND	1.00	1.00	11/26/24	AW	1	
1,1,2-Trichloroethane	ND	0.183	0.183	ND	1.00	1.00	11/26/24	AW	1	
1,1-Dichloroethane	ND	0.247	0.247	ND	1.00	1.00	11/26/24	AW	1	
1,1-Dichloroethene	ND	0.051	0.051	ND	0.20	0.20	11/26/24	AW	1	
1,2,4-Trichlorobenzene	ND	0.135	0.135	ND	1.00	1.00	11/26/24	AW	1	
1,2,4-Trimethylbenzene	ND	0.204	0.204	ND	1.00	1.00	11/26/24	AW	1	
1,2-Dibromoethane(EDB)	ND	0.130	0.130	ND	1.00	1.00	11/26/24	AW	1	
1,2-Dichlorobenzene	ND	0.166	0.166	ND	1.00	1.00	11/26/24	AW	1	
1,2-Dichloroethane	ND	0.247	0.247	ND	1.00	1.00	11/26/24	AW	1	
1,2-dichloropropane	ND	0.217	0.217	ND	1.00	1.00	11/26/24	AW	1	
1,2-Dichlorotetrafluoroethane	ND	0.143	0.143	ND	1.00	1.00	11/26/24	AW	1	
1,3,5-Trimethylbenzene	ND	0.204	0.204	ND	1.00	1.00	11/26/24	AW	1	
1,3-Butadiene	ND	0.452	0.452	ND	1.00	1.00	11/26/24	AW	1	
1,3-Dichlorobenzene	ND	0.166	0.166	ND	1.00	1.00	11/26/24	AW	1	
1,4-Dichlorobenzene	ND	0.166	0.166	ND	1.00	1.00	11/26/24	AW	1	
1,4-Dioxane	ND	0.278	0.278	ND	1.00	1.00	11/26/24	AW	1	
2-Hexanone(MBK)	ND	0.244	0.244	ND	1.00	1.00	11/26/24	AW	1	1
4-Ethyltoluene	ND	0.204	0.204	ND	1.00	1.00	11/26/24	AW	1	1
4-Isopropyltoluene	ND	0.182	0.182	ND	1.00	1.00	11/26/24	AW	1	1
4-Methyl-2-pentanone(MIBK)	ND	0.244	0.244	ND	1.00	1.00	11/26/24	AW	1	
Acetone	13.1	0.421	0.421	31.1	1.00	1.00	11/26/24	AW	1	
Acrylonitrile	ND	0.461	0.461	ND	1.00	1.00	11/26/24	AW	1	
Benzene	ND	0.313	0.313	ND	1.00	1.00	11/26/24	AW	1	
Benzyl chloride	ND	0.193	0.193	ND	1.00	1.00	11/26/24	AW	1	

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution
Bromodichloromethane	ND	0.149	0.149	ND	1.00	1.00	11/26/24	AW	1
Bromoform	ND	0.097	0.097	ND	1.00	1.00	11/26/24	AW	1
Bromomethane	ND	0.258	0.258	ND	1.00	1.00	11/26/24	AW	1
Carbon Disulfide	ND	0.321	0.321	ND	1.00	1.00	11/26/24	AW	1
Carbon Tetrachloride	0.078	0.032	0.032	0.49	0.20	0.20	11/26/24	AW	1
Chlorobenzene	ND	0.217	0.217	ND	1.00	1.00	11/26/24	AW	1
Chloroethane	ND	0.379	0.379	ND	1.00	1.00	11/26/24	AW	1
Chloroform	ND	0.205	0.205	ND	1.00	1.00	11/26/24	AW	1
Chloromethane	0.601	0.485	0.485	1.24	1.00	1.00	11/26/24	AW	1
Cis-1,2-Dichloroethene	ND	0.051	0.051	ND	0.20	0.20	11/26/24	AW	1
cis-1,3-Dichloropropene	ND	0.221	0.221	ND	1.00	1.00	11/26/24	AW	1
Cyclohexane	ND	0.291	0.291	ND	1.00	1.00	11/26/24	AW	1
Dibromochloromethane	ND	0.118	0.118	ND	1.00	1.00	11/26/24	AW	1
Dichlorodifluoromethane	0.458	0.202	0.202	2.26	1.00	1.00	11/26/24	AW	1
Ethanol	38.1	0.531	0.531	71.7	1.00	1.00	11/26/24	AW	1
Ethyl acetate	ND	0.278	0.278	ND	1.00	1.00	11/26/24	AW	1
Ethylbenzene	ND	0.230	0.230	ND	1.00	1.00	11/26/24	AW	1
Heptane	ND	0.244	0.244	ND	1.00	1.00	11/26/24	AW	1
Hexachlorobutadiene	ND	0.094	0.094	ND	1.00	1.00	11/26/24	AW	1
Hexane	ND	0.284	0.284	ND	1.00	1.00	11/26/24	AW	1
Isooctane	ND	0.215	0.215	ND	1.00	1.00	11/26/24	AW	1
Isopropylalcohol	2.83	0.407	0.407	6.95	1.00	1.00	11/26/24	AW	1
Isopropylbenzene	ND	0.204	0.204	ND	1.00	1.00	11/26/24	AW	1
m,p-Xylene	ND	0.230	0.230	ND	1.00	1.00	11/26/24	AW	1
Methyl Ethyl Ketone	ND	0.339	0.339	ND	1.00	1.00	11/26/24	AW	1
Methyl tert-butyl ether(MTBE)	ND	0.278	0.278	ND	1.00	1.00	11/26/24	AW	1
Methylene Chloride	ND	0.863	0.863	ND	3.00	3.00	11/26/24	AW	1
Naphthalene	ND	0.200	0.200	ND	1.05	1.05	11/26/24	AW	1
n-Butylbenzene	ND	0.182	0.182	ND	1.00	1.00	11/26/24	AW	1
o-Xylene	ND	0.230	0.230	ND	1.00	1.00	11/26/24	AW	1
Propylene	ND	0.581	0.581	ND	1.00	1.00	11/26/24	AW	1
sec-Butylbenzene	ND	0.182	0.182	ND	1.00	1.00	11/26/24	AW	1
Styrene	ND	0.235	0.235	ND	1.00	1.00	11/26/24	AW	1
Tetrachloroethene	ND	0.037	0.037	ND	0.25	0.25	11/26/24	AW	1
Tetrahydrofuran	ND	0.339	0.339	ND	1.00	1.00	11/26/24	AW	1
Toluene	1.11	0.266	0.266	4.18	1.00	1.00	11/26/24	AW	1
Trans-1,2-Dichloroethene	ND	0.252	0.252	ND	1.00	1.00	11/26/24	AW	1
trans-1,3-Dichloropropene	ND	0.221	0.221	ND	1.00	1.00	11/26/24	AW	1
Trichloroethene	ND	0.037	0.037	ND	0.20	0.20	11/26/24	AW	1
Trichlorofluoromethane	0.208	0.178	0.178	1.17	1.00	1.00	11/26/24	AW	1
Trichlorotrifluoroethane	ND	0.131	0.131	ND	1.00	1.00	11/26/24	AW	1
Vinyl Chloride	ND	0.078	0.078	ND	0.20	0.20	11/26/24	AW	1
<u>QA/QC Surrogates/Internals</u>									
% Bromofluorobenzene	100	%	%	100	%	%	11/26/24	AW	1
% IS-1,4-Difluorobenzene	96	%	%	96	%	%	11/26/24	AW	1
% IS-Bromochloromethane	95	%	%	95	%	%	11/26/24	AW	1
% IS-Chlorobenzene-d5	92	%	%	92	%	%	11/26/24	AW	1

Client ID: IA-1

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution

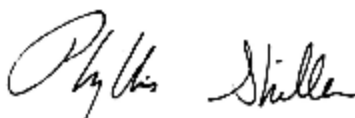
1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected BRL=Below Reporting Level L=Biased Low LOD=Limit of Detection MDL=Method Detection Limit1

QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

December 20, 2024

Reviewed and Released by: Rashmi Makol, Project Manager



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102



Analysis Report

December 20, 2024

FOR: Attn: Ariel Czemerinski
AMC Engineering PLLC
18-36 42nd Street
Astoria, NY 11105

Sample Information

Matrix: AIR
Location Code: AMC-ENG
Rush Request: Standard
P.O.#:
Canister Id: 49198

Custody Information

Collected by: AE
Received by: CP
Analyzed by: see "By" below

Date Time
11/25/24 16:26
11/26/24 17:46

Laboratory Data

SDG ID: GCS16244
Phoenix ID: CS16246

Project ID: 218 FRONT STREET
Client ID: SS-2

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution	
Volatiles (TO15)										
1,1,1,2-Tetrachloroethane	0.830	0.729	0.729	5.69	5.00	5.00	11/27/24	AW	5	1
1,1,1-Trichloroethane	ND	0.917	0.917	ND	5.00	5.00	11/27/24	AW	5	
1,1,2,2-Tetrachloroethane	ND	0.729	0.729	ND	5.00	5.00	11/27/24	AW	5	
1,1,2-Trichloroethane	ND	0.917	0.917	ND	5.00	5.00	11/27/24	AW	5	
1,1-Dichloroethane	ND	1.24	1.24	ND	5.02	5.02	11/27/24	AW	5	
1,1-Dichloroethene	ND	0.252	0.252	ND	1.00	1.00	11/27/24	AW	5	
1,2,4-Trichlorobenzene	ND	0.674	0.674	ND	5.00	5.00	11/27/24	AW	5	
1,2,4-Trimethylbenzene	ND	1.02	1.02	ND	5.01	5.01	11/27/24	AW	5	
1,2-Dibromoethane(EDB)	ND	0.651	0.651	ND	5.00	5.00	11/27/24	AW	5	
1,2-Dichlorobenzene	ND	0.832	0.832	ND	5.00	5.00	11/27/24	AW	5	
1,2-Dichloroethane	ND	1.24	1.24	ND	5.02	5.02	11/27/24	AW	5	
1,2-dichloropropane	ND	1.08	1.08	ND	4.99	4.99	11/27/24	AW	5	
1,2-Dichlorotetrafluoroethane	ND	0.716	0.716	ND	5.00	5.00	11/27/24	AW	5	
1,3,5-Trimethylbenzene	ND	1.02	1.02	ND	5.01	5.01	11/27/24	AW	5	
1,3-Butadiene	ND	2.26	2.26	ND	5.00	5.00	11/27/24	AW	5	
1,3-Dichlorobenzene	ND	0.832	0.832	ND	5.00	5.00	11/27/24	AW	5	
1,4-Dichlorobenzene	ND	0.832	0.832	ND	5.00	5.00	11/27/24	AW	5	
1,4-Dioxane	ND	1.39	1.39	ND	5.01	5.01	11/27/24	AW	5	
2-Hexanone(MBK)	ND	1.22	1.22	ND	4.99	4.99	11/27/24	AW	5	1
4-Ethyltoluene	ND	1.02	1.02	ND	5.01	5.01	11/27/24	AW	5	1
4-Isopropyltoluene	ND	0.911	0.911	ND	5.00	5.00	11/27/24	AW	5	1
4-Methyl-2-pentanone(MIBK)	ND	1.22	1.22	ND	4.99	4.99	11/27/24	AW	5	
Acetone	53.3	2.11	2.11	127	5.01	5.01	11/27/24	AW	5	
Acrylonitrile	ND	2.31	2.31	ND	5.01	5.01	11/27/24	AW	5	
Benzene	2.40	1.57	1.57	7.66	5.01	5.01	11/27/24	AW	5	
Benzyl chloride	ND	0.966	0.966	ND	5.00	5.00	11/27/24	AW	5	

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution	
Bromodichloromethane	ND	0.747	0.747	ND	5.00	5.00	11/27/24	AW	5	
Bromoform	ND	0.484	0.484	ND	5.00	5.00	11/27/24	AW	5	
Bromomethane	ND	1.29	1.29	ND	5.01	5.01	11/27/24	AW	5	
Carbon Disulfide	ND	1.61	1.61	ND	5.01	5.01	11/27/24	AW	5	
Carbon Tetrachloride	ND	0.159	0.159	ND	1.00	1.00	11/27/24	AW	5	
Chlorobenzene	ND	1.09	1.09	ND	5.01	5.01	11/27/24	AW	5	
Chloroethane	ND	1.90	1.90	ND	5.01	5.01	11/27/24	AW	5	
Chloroform	3.56	1.02	1.02	17.4	4.98	4.98	11/27/24	AW	5	
Chloromethane	2.85	2.42	2.42	5.88	4.99	4.99	11/27/24	AW	5	
Cis-1,2-Dichloroethene	ND	0.252	0.252	ND	1.00	1.00	11/27/24	AW	5	
cis-1,3-Dichloropropene	ND	1.10	1.10	ND	4.99	4.99	11/27/24	AW	5	
Cyclohexane	1.82	1.45	1.45	6.26	4.99	4.99	11/27/24	AW	5	
Dibromochloromethane	ND	0.587	0.587	ND	5.00	5.00	11/27/24	AW	5	
Dichlorodifluoromethane	ND	1.01	1.01	ND	4.99	4.99	11/27/24	AW	5	
Ethanol	19.8	2.66	2.66	37.3	5.01	5.01	11/27/24	AW	5	1
Ethyl acetate	ND	1.39	1.39	ND	5.01	5.01	11/27/24	AW	5	1
Ethylbenzene	ND	1.15	1.15	ND	4.99	4.99	11/27/24	AW	5	
Heptane	ND	1.22	1.22	ND	5.00	5.00	11/27/24	AW	5	
Hexachlorobutadiene	ND	0.469	0.469	ND	5.00	5.00	11/27/24	AW	5	
Hexane	1.68	1.42	1.42	5.92	5.00	5.00	11/27/24	AW	5	
Isooctane	ND	1.07	1.07	ND	4.99	4.99	11/27/24	AW	5	
Isopropylalcohol	3.67	2.04	2.04	9.02	5.01	5.01	11/27/24	AW	5	
Isopropylbenzene	ND	1.02	1.02	ND	5.01	5.01	11/27/24	AW	5	
m,p-Xylene	1.18	1.15	1.15	5.12	4.99	4.99	11/27/24	AW	5	
Methyl Ethyl Ketone	ND	1.70	1.70	ND	5.01	5.01	11/27/24	AW	5	
Methyl tert-butyl ether(MTBE)	ND	1.39	1.39	ND	5.01	5.01	11/27/24	AW	5	
Methylene Chloride	ND	4.32	4.32	ND	15.0	15.0	11/27/24	AW	5	
Naphthalene	ND	1.00	1.00	ND	5.23	5.23	11/27/24	AW	5	
n-Butylbenzene	ND	0.911	0.911	ND	5.00	5.00	11/27/24	AW	5	1
o-Xylene	ND	1.15	1.15	ND	4.99	4.99	11/27/24	AW	5	
Propylene	ND	2.91	2.91	ND	5.01	5.01	11/27/24	AW	5	1
sec-Butylbenzene	ND	0.911	0.911	ND	5.00	5.00	11/27/24	AW	5	1
Styrene	ND	1.17	1.17	ND	4.98	4.98	11/27/24	AW	5	
Tetrachloroethene	4.57	0.184	0.184	31.0	1.25	1.25	11/27/24	AW	5	
Tetrahydrofuran	ND	1.70	1.70	ND	5.01	5.01	11/27/24	AW	5	1
Toluene	2.00	1.33	1.33	7.53	5.01	5.01	11/27/24	AW	5	
Trans-1,2-Dichloroethene	ND	1.26	1.26	ND	4.99	4.99	11/27/24	AW	5	
trans-1,3-Dichloropropene	ND	1.10	1.10	ND	4.99	4.99	11/27/24	AW	5	
Trichloroethene	ND	0.185	0.185	ND	0.99	0.99	11/27/24	AW	5	
Trichlorofluoromethane	ND	0.891	0.891	ND	5.00	5.00	11/27/24	AW	5	
Trichlorotrifluoroethane	ND	0.653	0.653	ND	5.00	5.00	11/27/24	AW	5	
Vinyl Chloride	ND	0.390	0.390	ND	1.00	1.00	11/27/24	AW	5	
<u>QA/QC Surrogates/Internals</u>										
% Bromofluorobenzene (5x)	97	%	%	97	%	%	11/27/24	AW	5	
% IS-1,4-Difluorobenzene (5x)	92	%	%	92	%	%	11/27/24	AW	5	
% IS-Bromochloromethane (5x)	92	%	%	92	%	%	11/27/24	AW	5	
% IS-Chlorobenzene-d5 (5x)	91	%	%	91	%	%	11/27/24	AW	5	

Client ID: SS-2

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution

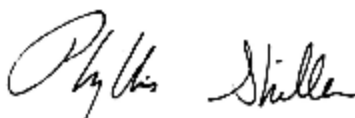
1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected BRL=Below Reporting Level L=Biased Low LOD=Limit of Detection MDL=Method Detection Limit1

QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

December 20, 2024

Reviewed and Released by: Rashmi Makol, Project Manager



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Tel. (860) 645-1102



Analysis Report

December 20, 2024

FOR: Attn: Ariel Czemerinski
AMC Engineering PLLC
18-36 42nd Street
Astoria, NY 11105

Sample Information

Matrix: AIR
Location Code: AMC-ENG
Rush Request: Standard
P.O.#:
Canister Id: 480

Custody Information

Collected by: AE
Received by: CP
Analyzed by: see "By" below

Date Time
11/25/24 17:03
11/26/24 17:46

Laboratory Data

SDG ID: GCS16244
Phoenix ID: CS16247

Project ID: 218 FRONT STREET
Client ID: SS-1

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution
Volatiles (TO15)									
1,1,1,2-Tetrachloroethane	ND	0.729	0.729	ND	5.00	5.00	11/27/24	AW	5
1,1,1-Trichloroethane	ND	0.917	0.917	ND	5.00	5.00	11/27/24	AW	5
1,1,2,2-Tetrachloroethane	ND	0.729	0.729	ND	5.00	5.00	11/27/24	AW	5
1,1,2-Trichloroethane	ND	0.917	0.917	ND	5.00	5.00	11/27/24	AW	5
1,1-Dichloroethane	ND	1.24	1.24	ND	5.02	5.02	11/27/24	AW	5
1,1-Dichloroethene	ND	0.252	0.252	ND	1.00	1.00	11/27/24	AW	5
1,2,4-Trichlorobenzene	ND	0.674	0.674	ND	5.00	5.00	11/27/24	AW	5
1,2,4-Trimethylbenzene	ND	1.02	1.02	ND	5.01	5.01	11/27/24	AW	5
1,2-Dibromoethane(EDB)	ND	0.651	0.651	ND	5.00	5.00	11/27/24	AW	5
1,2-Dichlorobenzene	ND	0.832	0.832	ND	5.00	5.00	11/27/24	AW	5
1,2-Dichloroethane	ND	1.24	1.24	ND	5.02	5.02	11/27/24	AW	5
1,2-dichloropropane	ND	1.08	1.08	ND	4.99	4.99	11/27/24	AW	5
1,2-Dichlorotetrafluoroethane	ND	0.716	0.716	ND	5.00	5.00	11/27/24	AW	5
1,3,5-Trimethylbenzene	ND	1.02	1.02	ND	5.01	5.01	11/27/24	AW	5
1,3-Butadiene	ND	2.26	2.26	ND	5.00	5.00	11/27/24	AW	5
1,3-Dichlorobenzene	ND	0.832	0.832	ND	5.00	5.00	11/27/24	AW	5
1,4-Dichlorobenzene	ND	0.832	0.832	ND	5.00	5.00	11/27/24	AW	5
1,4-Dioxane	ND	1.39	1.39	ND	5.01	5.01	11/27/24	AW	5
2-Hexanone(MBK)	ND	1.22	1.22	ND	4.99	4.99	11/27/24	AW	5
4-Ethyltoluene	ND	1.02	1.02	ND	5.01	5.01	11/27/24	AW	5
4-Isopropyltoluene	ND	0.911	0.911	ND	5.00	5.00	11/27/24	AW	5
4-Methyl-2-pentanone(MIBK)	ND	1.22	1.22	ND	4.99	4.99	11/27/24	AW	5
Acetone	433	E 2.11	2.11	1030	5.01	5.01	11/27/24	AW	5
Acrylonitrile	ND	2.31	2.31	ND	5.01	5.01	11/27/24	AW	5
Benzene	3.19	1.57	1.57	10.2	5.01	5.01	11/27/24	AW	5
Benzyl chloride	ND	0.966	0.966	ND	5.00	5.00	11/27/24	AW	5

Client ID: SS-1

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution
Bromodichloromethane	ND	0.747	0.747	ND	5.00	5.00	11/27/24	AW	5
Bromoform	ND	0.484	0.484	ND	5.00	5.00	11/27/24	AW	5
Bromomethane	ND	1.29	1.29	ND	5.01	5.01	11/27/24	AW	5
Carbon Disulfide	6.35	1.61	1.61	19.8	5.01	5.01	11/27/24	AW	5
Carbon Tetrachloride	ND	0.159	0.159	ND	1.00	1.00	11/27/24	AW	5
Chlorobenzene	ND	1.09	1.09	ND	5.01	5.01	11/27/24	AW	5
Chloroethane	ND	1.90	1.90	ND	5.01	5.01	11/27/24	AW	5
Chloroform	6.72	1.02	1.02	32.8	4.98	4.98	11/27/24	AW	5
Chloromethane	ND	2.42	2.42	ND	4.99	4.99	11/27/24	AW	5
Cis-1,2-Dichloroethene	ND	0.252	0.252	ND	1.00	1.00	11/27/24	AW	5
cis-1,3-Dichloropropene	ND	1.10	1.10	ND	4.99	4.99	11/27/24	AW	5
Cyclohexane	1.94	1.45	1.45	6.67	4.99	4.99	11/27/24	AW	5
Dibromochloromethane	ND	0.587	0.587	ND	5.00	5.00	11/27/24	AW	5
Dichlorodifluoromethane	ND	1.01	1.01	ND	4.99	4.99	11/27/24	AW	5
Ethanol	111	2.66	2.66	209	5.01	5.01	11/27/24	AW	5
Ethyl acetate	ND	1.39	1.39	ND	5.01	5.01	11/27/24	AW	5
Ethylbenzene	ND	1.15	1.15	ND	4.99	4.99	11/27/24	AW	5
Heptane	1.27	1.22	1.22	5.20	5.00	5.00	11/27/24	AW	5
Hexachlorobutadiene	ND	0.469	0.469	ND	5.00	5.00	11/27/24	AW	5
Hexane	2.96	1.42	1.42	10.4	5.00	5.00	11/27/24	AW	5
Isooctane	ND	1.07	1.07	ND	4.99	4.99	11/27/24	AW	5
Isopropylalcohol	8.48	2.04	2.04	20.8	5.01	5.01	11/27/24	AW	5
Isopropylbenzene	ND	1.02	1.02	ND	5.01	5.01	11/27/24	AW	5
m,p-Xylene	1.24	1.15	1.15	5.38	4.99	4.99	11/27/24	AW	5
Methyl Ethyl Ketone	ND	1.70	1.70	ND	5.01	5.01	11/27/24	AW	5
Methyl tert-butyl ether(MTBE)	ND	1.39	1.39	ND	5.01	5.01	11/27/24	AW	5
Methylene Chloride	ND	4.32	4.32	ND	15.0	15.0	11/27/24	AW	5
Naphthalene	ND	1.00	1.00	ND	5.23	5.23	11/27/24	AW	5
n-Butylbenzene	ND	0.911	0.911	ND	5.00	5.00	11/27/24	AW	5
o-Xylene	ND	1.15	1.15	ND	4.99	4.99	11/27/24	AW	5
Propylene	ND	2.91	2.91	ND	5.01	5.01	11/27/24	AW	5
sec-Butylbenzene	ND	0.911	0.911	ND	5.00	5.00	11/27/24	AW	5
Styrene	ND	1.17	1.17	ND	4.98	4.98	11/27/24	AW	5
Tetrachloroethene	44.1	0.184	0.184	299	1.25	1.25	11/27/24	AW	5
Tetrahydrofuran	ND	1.70	1.70	ND	5.01	5.01	11/27/24	AW	5
Toluene	2.14	1.33	1.33	8.06	5.01	5.01	11/27/24	AW	5
Trans-1,2-Dichloroethene	ND	1.26	1.26	ND	4.99	4.99	11/27/24	AW	5
trans-1,3-Dichloropropene	ND	1.10	1.10	ND	4.99	4.99	11/27/24	AW	5
Trichloroethene	ND	0.185	0.185	ND	0.99	0.99	11/27/24	AW	5
Trichlorofluoromethane	ND	0.891	0.891	ND	5.00	5.00	11/27/24	AW	5
Trichlorotrifluoroethane	ND	0.653	0.653	ND	5.00	5.00	11/27/24	AW	5
Vinyl Chloride	ND	0.390	0.390	ND	1.00	1.00	11/27/24	AW	5
<u>QA/QC Surrogates/Internals</u>									
% Bromofluorobenzene (5x)	98	%	%	98	%	%	11/27/24	AW	5
% IS-1,4-Difluorobenzene (5x)	93	%	%	93	%	%	11/27/24	AW	5
% IS-Bromochloromethane (5x)	90	%	%	90	%	%	11/27/24	AW	5
% IS-Chlorobenzene-d5 (5x)	89	%	%	89	%	%	11/27/24	AW	5

Client ID: SS-1

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution

1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.

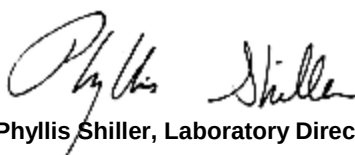
RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected BRL=Below Reporting Level L=Biased Low LOD=Limit of Detection MDL=Method Detection Limit1

QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

E = Estimated value quantitated above calibration range for this compound.

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Phyllis Shiller, Laboratory Director

December 20, 2024

Reviewed and Released by: Rashmi Makol, Project Manager



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102



Analysis Report

December 20, 2024

FOR: Attn: Ariel Czemerinski
AMC Engineering PLLC
18-36 42nd Street
Astoria, NY 11105

Sample Information

Matrix: AIR
Location Code: AMC-ENG
Rush Request: Standard
P.O.#:
Canister Id: 455

Custody Information

Collected by: AE
Received by: CP
Analyzed by: see "By" below

Date Time
11/25/24 15:55
11/26/24 17:46

Laboratory Data

SDG ID: GCS16244
Phoenix ID: CS16248

Project ID: 218 FRONT STREET
Client ID: IA-4

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution
Volatiles (TO15)									
1,1,1,2-Tetrachloroethane	ND	0.146	0.146	ND	1.00	1.00	11/26/24	AW	1
1,1,1-Trichloroethane	ND	0.183	0.183	ND	1.00	1.00	11/26/24	AW	1
1,1,2,2-Tetrachloroethane	ND	0.146	0.146	ND	1.00	1.00	11/26/24	AW	1
1,1,2-Trichloroethane	ND	0.183	0.183	ND	1.00	1.00	11/26/24	AW	1
1,1-Dichloroethane	ND	0.247	0.247	ND	1.00	1.00	11/26/24	AW	1
1,1-Dichloroethene	ND	0.051	0.051	ND	0.20	0.20	11/26/24	AW	1
1,2,4-Trichlorobenzene	ND	0.135	0.135	ND	1.00	1.00	11/26/24	AW	1
1,2,4-Trimethylbenzene	ND	0.204	0.204	ND	1.00	1.00	11/26/24	AW	1
1,2-Dibromoethane(EDB)	ND	0.130	0.130	ND	1.00	1.00	11/26/24	AW	1
1,2-Dichlorobenzene	ND	0.166	0.166	ND	1.00	1.00	11/26/24	AW	1
1,2-Dichloroethane	ND	0.247	0.247	ND	1.00	1.00	11/26/24	AW	1
1,2-dichloropropane	ND	0.217	0.217	ND	1.00	1.00	11/26/24	AW	1
1,2-Dichlorotetrafluoroethane	ND	0.143	0.143	ND	1.00	1.00	11/26/24	AW	1
1,3,5-Trimethylbenzene	ND	0.204	0.204	ND	1.00	1.00	11/26/24	AW	1
1,3-Butadiene	ND	0.452	0.452	ND	1.00	1.00	11/26/24	AW	1
1,3-Dichlorobenzene	ND	0.166	0.166	ND	1.00	1.00	11/26/24	AW	1
1,4-Dichlorobenzene	ND	0.166	0.166	ND	1.00	1.00	11/26/24	AW	1
1,4-Dioxane	ND	0.278	0.278	ND	1.00	1.00	11/26/24	AW	1
2-Hexanone(MBK)	ND	0.244	0.244	ND	1.00	1.00	11/26/24	AW	1
4-Ethyltoluene	ND	0.204	0.204	ND	1.00	1.00	11/26/24	AW	1
4-Isopropyltoluene	ND	0.182	0.182	ND	1.00	1.00	11/26/24	AW	1
4-Methyl-2-pentanone(MIBK)	ND	0.244	0.244	ND	1.00	1.00	11/26/24	AW	1
Acetone	11.4	0.421	0.421	27.1	1.00	1.00	11/26/24	AW	1
Acrylonitrile	ND	0.461	0.461	ND	1.00	1.00	11/26/24	AW	1
Benzene	0.420	0.313	0.313	1.34	1.00	1.00	11/26/24	AW	1
Benzyl chloride	ND	0.193	0.193	ND	1.00	1.00	11/26/24	AW	1

Client ID: IA-4

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution
Bromodichloromethane	ND	0.149	0.149	ND	1.00	1.00	11/26/24	AW	1
Bromoform	ND	0.097	0.097	ND	1.00	1.00	11/26/24	AW	1
Bromomethane	ND	0.258	0.258	ND	1.00	1.00	11/26/24	AW	1
Carbon Disulfide	ND	0.321	0.321	ND	1.00	1.00	11/26/24	AW	1
Carbon Tetrachloride	0.075	0.032	0.032	0.47	0.20	0.20	11/26/24	AW	1
Chlorobenzene	ND	0.217	0.217	ND	1.00	1.00	11/26/24	AW	1
Chloroethane	ND	0.379	0.379	ND	1.00	1.00	11/26/24	AW	1
Chloroform	ND	0.205	0.205	ND	1.00	1.00	11/26/24	AW	1
Chloromethane	0.614	0.485	0.485	1.27	1.00	1.00	11/26/24	AW	1
Cis-1,2-Dichloroethene	ND	0.051	0.051	ND	0.20	0.20	11/26/24	AW	1
cis-1,3-Dichloropropene	ND	0.221	0.221	ND	1.00	1.00	11/26/24	AW	1
Cyclohexane	ND	0.291	0.291	ND	1.00	1.00	11/26/24	AW	1
Dibromochloromethane	ND	0.118	0.118	ND	1.00	1.00	11/26/24	AW	1
Dichlorodifluoromethane	0.454	0.202	0.202	2.24	1.00	1.00	11/26/24	AW	1
Ethanol	22.4	0.531	0.531	42.2	1.00	1.00	11/26/24	AW	1
Ethyl acetate	ND	0.278	0.278	ND	1.00	1.00	11/26/24	AW	1
Ethylbenzene	ND	0.230	0.230	ND	1.00	1.00	11/26/24	AW	1
Heptane	ND	0.244	0.244	ND	1.00	1.00	11/26/24	AW	1
Hexachlorobutadiene	ND	0.094	0.094	ND	1.00	1.00	11/26/24	AW	1
Hexane	ND	0.284	0.284	ND	1.00	1.00	11/26/24	AW	1
Isooctane	ND	0.215	0.215	ND	1.00	1.00	11/26/24	AW	1
Isopropylalcohol	0.817	0.407	0.407	2.01	1.00	1.00	11/26/24	AW	1
Isopropylbenzene	ND	0.204	0.204	ND	1.00	1.00	11/26/24	AW	1
m,p-Xylene	0.318	0.230	0.230	1.38	1.00	1.00	11/26/24	AW	1
Methyl Ethyl Ketone	ND	0.339	0.339	ND	1.00	1.00	11/26/24	AW	1
Methyl tert-butyl ether(MTBE)	ND	0.278	0.278	ND	1.00	1.00	11/26/24	AW	1
Methylene Chloride	ND	0.863	0.863	ND	3.00	3.00	11/26/24	AW	1
Naphthalene	ND	0.200	0.200	ND	1.05	1.05	11/26/24	AW	1
n-Butylbenzene	ND	0.182	0.182	ND	1.00	1.00	11/26/24	AW	1
o-Xylene	ND	0.230	0.230	ND	1.00	1.00	11/26/24	AW	1
Propylene	ND	0.581	0.581	ND	1.00	1.00	11/26/24	AW	1
sec-Butylbenzene	ND	0.182	0.182	ND	1.00	1.00	11/26/24	AW	1
Styrene	0.248	0.235	0.235	1.06	1.00	1.00	11/26/24	AW	1
Tetrachloroethene	ND	0.037	0.037	ND	0.25	0.25	11/26/24	AW	1
Tetrahydrofuran	ND	0.339	0.339	ND	1.00	1.00	11/26/24	AW	1
Toluene	0.610	0.266	0.266	2.30	1.00	1.00	11/26/24	AW	1
Trans-1,2-Dichloroethene	ND	0.252	0.252	ND	1.00	1.00	11/26/24	AW	1
trans-1,3-Dichloropropene	ND	0.221	0.221	ND	1.00	1.00	11/26/24	AW	1
Trichloroethene	ND	0.037	0.037	ND	0.20	0.20	11/26/24	AW	1
Trichlorofluoromethane	0.211	0.178	0.178	1.18	1.00	1.00	11/26/24	AW	1
Trichlorotrifluoroethane	ND	0.131	0.131	ND	1.00	1.00	11/26/24	AW	1
Vinyl Chloride	ND	0.078	0.078	ND	0.20	0.20	11/26/24	AW	1
<u>QA/QC Surrogates/Internals</u>									
% Bromofluorobenzene	98	%	%	98	%	%	11/26/24	AW	1
% IS-1,4-Difluorobenzene	98	%	%	98	%	%	11/26/24	AW	1
% IS-Bromochloromethane	99	%	%	99	%	%	11/26/24	AW	1
% IS-Chlorobenzene-d5	96	%	%	96	%	%	11/26/24	AW	1

Client ID: IA-4

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution

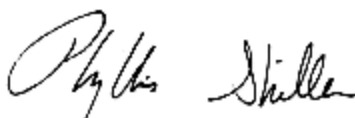
1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected BRL=Below Reporting Level L=Biased Low LOD=Limit of Detection MDL=Method Detection Limit1

QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

December 20, 2024

Reviewed and Released by: Rashmi Makol, Project Manager



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102



Analysis Report

December 20, 2024

FOR: Attn: Ariel Czemerinski
AMC Engineering PLLC
18-36 42nd Street
Astoria, NY 11105

Sample Information

Matrix: AIR
Location Code: AMC-ENG
Rush Request: Standard
P.O.#:
Canister Id: 12862

Custody Information

Collected by: AE
Received by: CP
Analyzed by: see "By" below

Date Time
11/25/24 15:42
11/26/24 17:46

Laboratory Data

SDG ID: GCS16244
Phoenix ID: CS16249

Project ID: 218 FRONT STREET
Client ID: DUPLICATE

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution
Volatiles (TO15)									
1,1,1,2-Tetrachloroethane	ND	0.146	0.146	ND	1.00	1.00	11/26/24	AW	1
1,1,1-Trichloroethane	ND	0.183	0.183	ND	1.00	1.00	11/26/24	AW	1
1,1,2,2-Tetrachloroethane	ND	0.146	0.146	ND	1.00	1.00	11/26/24	AW	1
1,1,2-Trichloroethane	ND	0.183	0.183	ND	1.00	1.00	11/26/24	AW	1
1,1-Dichloroethane	ND	0.247	0.247	ND	1.00	1.00	11/26/24	AW	1
1,1-Dichloroethene	ND	0.051	0.051	ND	0.20	0.20	11/26/24	AW	1
1,2,4-Trichlorobenzene	ND	0.135	0.135	ND	1.00	1.00	11/26/24	AW	1
1,2,4-Trimethylbenzene	ND	0.204	0.204	ND	1.00	1.00	11/26/24	AW	1
1,2-Dibromoethane(EDB)	ND	0.130	0.130	ND	1.00	1.00	11/26/24	AW	1
1,2-Dichlorobenzene	ND	0.166	0.166	ND	1.00	1.00	11/26/24	AW	1
1,2-Dichloroethane	ND	0.247	0.247	ND	1.00	1.00	11/26/24	AW	1
1,2-dichloropropane	ND	0.217	0.217	ND	1.00	1.00	11/26/24	AW	1
1,2-Dichlorotetrafluoroethane	ND	0.143	0.143	ND	1.00	1.00	11/26/24	AW	1
1,3,5-Trimethylbenzene	ND	0.204	0.204	ND	1.00	1.00	11/26/24	AW	1
1,3-Butadiene	ND	0.452	0.452	ND	1.00	1.00	11/26/24	AW	1
1,3-Dichlorobenzene	ND	0.166	0.166	ND	1.00	1.00	11/26/24	AW	1
1,4-Dichlorobenzene	ND	0.166	0.166	ND	1.00	1.00	11/26/24	AW	1
1,4-Dioxane	ND	0.278	0.278	ND	1.00	1.00	11/26/24	AW	1
2-Hexanone(MBK)	ND	0.244	0.244	ND	1.00	1.00	11/26/24	AW	1
4-Ethyltoluene	ND	0.204	0.204	ND	1.00	1.00	11/26/24	AW	1
4-Isopropyltoluene	ND	0.182	0.182	ND	1.00	1.00	11/26/24	AW	1
4-Methyl-2-pentanone(MIBK)	ND	0.244	0.244	ND	1.00	1.00	11/26/24	AW	1
Acetone	9.79	0.421	0.421	23.2	1.00	1.00	11/26/24	AW	1
Acrylonitrile	ND	0.461	0.461	ND	1.00	1.00	11/26/24	AW	1
Benzene	ND	0.313	0.313	ND	1.00	1.00	11/26/24	AW	1
Benzyl chloride	ND	0.193	0.193	ND	1.00	1.00	11/26/24	AW	1

Client ID: DUPLICATE

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution
Bromodichloromethane	ND	0.149	0.149	ND	1.00	1.00	11/26/24	AW	1
Bromoform	ND	0.097	0.097	ND	1.00	1.00	11/26/24	AW	1
Bromomethane	ND	0.258	0.258	ND	1.00	1.00	11/26/24	AW	1
Carbon Disulfide	ND	0.321	0.321	ND	1.00	1.00	11/26/24	AW	1
Carbon Tetrachloride	0.077	0.032	0.032	0.48	0.20	0.20	11/26/24	AW	1
Chlorobenzene	ND	0.217	0.217	ND	1.00	1.00	11/26/24	AW	1
Chloroethane	ND	0.379	0.379	ND	1.00	1.00	11/26/24	AW	1
Chloroform	ND	0.205	0.205	ND	1.00	1.00	11/26/24	AW	1
Chloromethane	0.608	0.485	0.485	1.25	1.00	1.00	11/26/24	AW	1
Cis-1,2-Dichloroethene	ND	0.051	0.051	ND	0.20	0.20	11/26/24	AW	1
cis-1,3-Dichloropropene	ND	0.221	0.221	ND	1.00	1.00	11/26/24	AW	1
Cyclohexane	ND	0.291	0.291	ND	1.00	1.00	11/26/24	AW	1
Dibromochloromethane	ND	0.118	0.118	ND	1.00	1.00	11/26/24	AW	1
Dichlorodifluoromethane	0.478	0.202	0.202	2.36	1.00	1.00	11/26/24	AW	1
Ethanol	30.1	0.531	0.531	56.7	1.00	1.00	11/26/24	AW	1
Ethyl acetate	ND	0.278	0.278	ND	1.00	1.00	11/26/24	AW	1
Ethylbenzene	ND	0.230	0.230	ND	1.00	1.00	11/26/24	AW	1
Heptane	ND	0.244	0.244	ND	1.00	1.00	11/26/24	AW	1
Hexachlorobutadiene	ND	0.094	0.094	ND	1.00	1.00	11/26/24	AW	1
Hexane	ND	0.284	0.284	ND	1.00	1.00	11/26/24	AW	1
Isooctane	ND	0.215	0.215	ND	1.00	1.00	11/26/24	AW	1
Isopropylalcohol	2.12	0.407	0.407	5.21	1.00	1.00	11/26/24	AW	1
Isopropylbenzene	ND	0.204	0.204	ND	1.00	1.00	11/26/24	AW	1
m,p-Xylene	0.258	0.230	0.230	1.12	1.00	1.00	11/26/24	AW	1
Methyl Ethyl Ketone	ND	0.339	0.339	ND	1.00	1.00	11/26/24	AW	1
Methyl tert-butyl ether(MTBE)	ND	0.278	0.278	ND	1.00	1.00	11/26/24	AW	1
Methylene Chloride	ND	0.863	0.863	ND	3.00	3.00	11/26/24	AW	1
Naphthalene	ND	0.200	0.200	ND	1.05	1.05	11/26/24	AW	1
n-Butylbenzene	ND	0.182	0.182	ND	1.00	1.00	11/26/24	AW	1
o-Xylene	ND	0.230	0.230	ND	1.00	1.00	11/26/24	AW	1
Propylene	ND	0.581	0.581	ND	1.00	1.00	11/26/24	AW	1
sec-Butylbenzene	ND	0.182	0.182	ND	1.00	1.00	11/26/24	AW	1
Styrene	ND	0.235	0.235	ND	1.00	1.00	11/26/24	AW	1
Tetrachloroethene	ND	0.037	0.037	ND	0.25	0.25	11/26/24	AW	1
Tetrahydrofuran	ND	0.339	0.339	ND	1.00	1.00	11/26/24	AW	1
Toluene	1.14	0.266	0.266	4.29	1.00	1.00	11/26/24	AW	1
Trans-1,2-Dichloroethene	ND	0.252	0.252	ND	1.00	1.00	11/26/24	AW	1
trans-1,3-Dichloropropene	ND	0.221	0.221	ND	1.00	1.00	11/26/24	AW	1
Trichloroethene	ND	0.037	0.037	ND	0.20	0.20	11/26/24	AW	1
Trichlorofluoromethane	0.216	0.178	0.178	1.21	1.00	1.00	11/26/24	AW	1
Trichlorotrifluoroethane	ND	0.131	0.131	ND	1.00	1.00	11/26/24	AW	1
Vinyl Chloride	ND	0.078	0.078	ND	0.20	0.20	11/26/24	AW	1
<u>QA/QC Surrogates/Internals</u>									
% Bromofluorobenzene	99	%	%	99	%	%	11/26/24	AW	1
% IS-1,4-Difluorobenzene	95	%	%	95	%	%	11/26/24	AW	1
% IS-Bromochloromethane	94	%	%	94	%	%	11/26/24	AW	1
% IS-Chlorobenzene-d5	92	%	%	92	%	%	11/26/24	AW	1

Client ID: DUPLICATE

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution

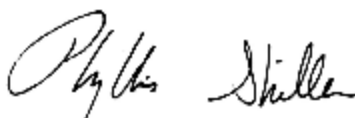
1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected BRL=Below Reporting Level L=Biased Low LOD=Limit of Detection MDL=Method Detection Limit1

QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

December 20, 2024

Reviewed and Released by: Rashmi Makol, Project Manager



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102



Analysis Report

December 20, 2024

FOR: Attn: Ariel Czemerinski
AMC Engineering PLLC
18-36 42nd Street
Astoria, NY 11105

Sample Information

Matrix: AIR
Location Code: AMC-ENG
Rush Request: Standard
P.O.#:
Canister Id: 21357

Custody Information

Collected by: AE
Received by: CP
Analyzed by: see "By" below

Date Time
11/25/24 15:42
11/26/24 17:46

Laboratory Data

SDG ID: GCS16244
Phoenix ID: CS16250

Project ID: 218 FRONT STREET
Client ID: IA-3

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution
Volatiles (TO15)									
1,1,1,2-Tetrachloroethane	ND	0.146	0.146	ND	1.00	1.00	11/26/24	AW	1
1,1,1-Trichloroethane	ND	0.183	0.183	ND	1.00	1.00	11/26/24	AW	1
1,1,2,2-Tetrachloroethane	ND	0.146	0.146	ND	1.00	1.00	11/26/24	AW	1
1,1,2-Trichloroethane	ND	0.183	0.183	ND	1.00	1.00	11/26/24	AW	1
1,1-Dichloroethane	ND	0.247	0.247	ND	1.00	1.00	11/26/24	AW	1
1,1-Dichloroethene	ND	0.051	0.051	ND	0.20	0.20	11/26/24	AW	1
1,2,4-Trichlorobenzene	ND	0.135	0.135	ND	1.00	1.00	11/26/24	AW	1
1,2,4-Trimethylbenzene	ND	0.204	0.204	ND	1.00	1.00	11/26/24	AW	1
1,2-Dibromoethane(EDB)	ND	0.130	0.130	ND	1.00	1.00	11/26/24	AW	1
1,2-Dichlorobenzene	ND	0.166	0.166	ND	1.00	1.00	11/26/24	AW	1
1,2-Dichloroethane	ND	0.247	0.247	ND	1.00	1.00	11/26/24	AW	1
1,2-dichloropropane	ND	0.217	0.217	ND	1.00	1.00	11/26/24	AW	1
1,2-Dichlorotetrafluoroethane	ND	0.143	0.143	ND	1.00	1.00	11/26/24	AW	1
1,3,5-Trimethylbenzene	ND	0.204	0.204	ND	1.00	1.00	11/26/24	AW	1
1,3-Butadiene	ND	0.452	0.452	ND	1.00	1.00	11/26/24	AW	1
1,3-Dichlorobenzene	ND	0.166	0.166	ND	1.00	1.00	11/26/24	AW	1
1,4-Dichlorobenzene	ND	0.166	0.166	ND	1.00	1.00	11/26/24	AW	1
1,4-Dioxane	ND	0.278	0.278	ND	1.00	1.00	11/26/24	AW	1
2-Hexanone(MBK)	ND	0.244	0.244	ND	1.00	1.00	11/26/24	AW	1
4-Ethyltoluene	ND	0.204	0.204	ND	1.00	1.00	11/26/24	AW	1
4-Isopropyltoluene	ND	0.182	0.182	ND	1.00	1.00	11/26/24	AW	1
4-Methyl-2-pentanone(MIBK)	ND	0.244	0.244	ND	1.00	1.00	11/26/24	AW	1
Acetone	9.84	0.421	0.421	23.4	1.00	1.00	11/26/24	AW	1
Acrylonitrile	ND	0.461	0.461	ND	1.00	1.00	11/26/24	AW	1
Benzene	ND	0.313	0.313	ND	1.00	1.00	11/26/24	AW	1
Benzyl chloride	ND	0.193	0.193	ND	1.00	1.00	11/26/24	AW	1

Client ID: IA-3

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution
Bromodichloromethane	ND	0.149	0.149	ND	1.00	1.00	11/26/24	AW	1
Bromoform	ND	0.097	0.097	ND	1.00	1.00	11/26/24	AW	1
Bromomethane	ND	0.258	0.258	ND	1.00	1.00	11/26/24	AW	1
Carbon Disulfide	ND	0.321	0.321	ND	1.00	1.00	11/26/24	AW	1
Carbon Tetrachloride	0.078	0.032	0.032	0.49	0.20	0.20	11/26/24	AW	1
Chlorobenzene	ND	0.217	0.217	ND	1.00	1.00	11/26/24	AW	1
Chloroethane	ND	0.379	0.379	ND	1.00	1.00	11/26/24	AW	1
Chloroform	ND	0.205	0.205	ND	1.00	1.00	11/26/24	AW	1
Chloromethane	0.624	0.485	0.485	1.29	1.00	1.00	11/26/24	AW	1
Cis-1,2-Dichloroethene	ND	0.051	0.051	ND	0.20	0.20	11/26/24	AW	1
cis-1,3-Dichloropropene	ND	0.221	0.221	ND	1.00	1.00	11/26/24	AW	1
Cyclohexane	ND	0.291	0.291	ND	1.00	1.00	11/26/24	AW	1
Dibromochloromethane	ND	0.118	0.118	ND	1.00	1.00	11/26/24	AW	1
Dichlorodifluoromethane	0.466	0.202	0.202	2.30	1.00	1.00	11/26/24	AW	1
Ethanol	27.1	0.531	0.531	51.0	1.00	1.00	11/26/24	AW	1
Ethyl acetate	ND	0.278	0.278	ND	1.00	1.00	11/26/24	AW	1
Ethylbenzene	ND	0.230	0.230	ND	1.00	1.00	11/26/24	AW	1
Heptane	ND	0.244	0.244	ND	1.00	1.00	11/26/24	AW	1
Hexachlorobutadiene	ND	0.094	0.094	ND	1.00	1.00	11/26/24	AW	1
Hexane	ND	0.284	0.284	ND	1.00	1.00	11/26/24	AW	1
Isooctane	ND	0.215	0.215	ND	1.00	1.00	11/26/24	AW	1
Isopropylalcohol	2.04	0.407	0.407	5.01	1.00	1.00	11/26/24	AW	1
Isopropylbenzene	ND	0.204	0.204	ND	1.00	1.00	11/26/24	AW	1
m,p-Xylene	0.251	0.230	0.230	1.09	1.00	1.00	11/26/24	AW	1
Methyl Ethyl Ketone	ND	0.339	0.339	ND	1.00	1.00	11/26/24	AW	1
Methyl tert-butyl ether(MTBE)	ND	0.278	0.278	ND	1.00	1.00	11/26/24	AW	1
Methylene Chloride	ND	0.863	0.863	ND	3.00	3.00	11/26/24	AW	1
Naphthalene	ND	0.200	0.200	ND	1.05	1.05	11/26/24	AW	1
n-Butylbenzene	ND	0.182	0.182	ND	1.00	1.00	11/26/24	AW	1
o-Xylene	ND	0.230	0.230	ND	1.00	1.00	11/26/24	AW	1
Propylene	ND	0.581	0.581	ND	1.00	1.00	11/26/24	AW	1
sec-Butylbenzene	ND	0.182	0.182	ND	1.00	1.00	11/26/24	AW	1
Styrene	ND	0.235	0.235	ND	1.00	1.00	11/26/24	AW	1
Tetrachloroethene	0.391	0.037	0.037	2.65	0.25	0.25	11/26/24	AW	1
Tetrahydrofuran	ND	0.339	0.339	ND	1.00	1.00	11/26/24	AW	1
Toluene	1.13	0.266	0.266	4.26	1.00	1.00	11/26/24	AW	1
Trans-1,2-Dichloroethene	ND	0.252	0.252	ND	1.00	1.00	11/26/24	AW	1
trans-1,3-Dichloropropene	ND	0.221	0.221	ND	1.00	1.00	11/26/24	AW	1
Trichloroethene	0.146	0.037	0.037	0.78	0.20	0.20	11/26/24	AW	1
Trichlorofluoromethane	0.216	0.178	0.178	1.21	1.00	1.00	11/26/24	AW	1
Trichlorotrifluoroethane	ND	0.131	0.131	ND	1.00	1.00	11/26/24	AW	1
Vinyl Chloride	ND	0.078	0.078	ND	0.20	0.20	11/26/24	AW	1
<u>QA/QC Surrogates/Internals</u>									
% Bromofluorobenzene	100	%	%	100	%	%	11/26/24	AW	1
% IS-1,4-Difluorobenzene	94	%	%	94	%	%	11/26/24	AW	1
% IS-Bromochloromethane	95	%	%	95	%	%	11/26/24	AW	1
% IS-Chlorobenzene-d5	91	%	%	91	%	%	11/26/24	AW	1

Client ID: IA-3

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution

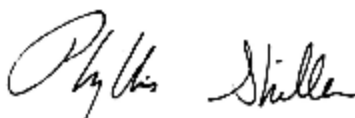
1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected BRL=Below Reporting Level L=Biased Low LOD=Limit of Detection MDL=Method Detection Limit1

QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

December 20, 2024

Reviewed and Released by: Rashmi Makol, Project Manager



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102



Analysis Report

December 20, 2024

FOR: Attn: Ariel Czemerinski
AMC Engineering PLLC
18-36 42nd Street
Astoria, NY 11105

Sample Information

Matrix: AIR
Location Code: AMC-ENG
Rush Request: Standard
P.O.#:
Canister Id: 16001

Custody Information

Collected by: AE
Received by: CP
Analyzed by: see "By" below

Date Time
11/25/24 17:30
11/26/24 17:46

Laboratory Data

SDG ID: GCS16244
Phoenix ID: CS16251

Project ID: 218 FRONT STREET
Client ID: OA-1

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution
<u>Volatiles (TO15)</u>									
1,1,1,2-Tetrachloroethane	ND	0.146	0.146	ND	1.00	1.00	11/26/24	AW	1
1,1,1-Trichloroethane	ND	0.183	0.183	ND	1.00	1.00	11/26/24	AW	1
1,1,2,2-Tetrachloroethane	ND	0.146	0.146	ND	1.00	1.00	11/26/24	AW	1
1,1,2-Trichloroethane	ND	0.183	0.183	ND	1.00	1.00	11/26/24	AW	1
1,1-Dichloroethane	ND	0.247	0.247	ND	1.00	1.00	11/26/24	AW	1
1,1-Dichloroethene	ND	0.051	0.051	ND	0.20	0.20	11/26/24	AW	1
1,2,4-Trichlorobenzene	ND	0.135	0.135	ND	1.00	1.00	11/26/24	AW	1
1,2,4-Trimethylbenzene	ND	0.204	0.204	ND	1.00	1.00	11/26/24	AW	1
1,2-Dibromoethane(EDB)	ND	0.130	0.130	ND	1.00	1.00	11/26/24	AW	1
1,2-Dichlorobenzene	ND	0.166	0.166	ND	1.00	1.00	11/26/24	AW	1
1,2-Dichloroethane	ND	0.247	0.247	ND	1.00	1.00	11/26/24	AW	1
1,2-dichloropropane	ND	0.217	0.217	ND	1.00	1.00	11/26/24	AW	1
1,2-Dichlorotetrafluoroethane	ND	0.143	0.143	ND	1.00	1.00	11/26/24	AW	1
1,3,5-Trimethylbenzene	ND	0.204	0.204	ND	1.00	1.00	11/26/24	AW	1
1,3-Butadiene	ND	0.452	0.452	ND	1.00	1.00	11/26/24	AW	1
1,3-Dichlorobenzene	ND	0.166	0.166	ND	1.00	1.00	11/26/24	AW	1
1,4-Dichlorobenzene	ND	0.166	0.166	ND	1.00	1.00	11/26/24	AW	1
1,4-Dioxane	ND	0.278	0.278	ND	1.00	1.00	11/26/24	AW	1
2-Hexanone(MBK)	ND	0.244	0.244	ND	1.00	1.00	11/26/24	AW	1
4-Ethyltoluene	ND	0.204	0.204	ND	1.00	1.00	11/26/24	AW	1
4-Isopropyltoluene	ND	0.182	0.182	ND	1.00	1.00	11/26/24	AW	1
4-Methyl-2-pentanone(MIBK)	ND	0.244	0.244	ND	1.00	1.00	11/26/24	AW	1
Acetone	4.02	0.421	0.421	9.5	1.00	1.00	11/26/24	AW	1
Acrylonitrile	ND	0.461	0.461	ND	1.00	1.00	11/26/24	AW	1
Benzene	ND	0.313	0.313	ND	1.00	1.00	11/26/24	AW	1
Benzyl chloride	ND	0.193	0.193	ND	1.00	1.00	11/26/24	AW	1

Client ID: OA-1

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution
Bromodichloromethane	ND	0.149	0.149	ND	1.00	1.00	11/26/24	AW	1
Bromoform	ND	0.097	0.097	ND	1.00	1.00	11/26/24	AW	1
Bromomethane	ND	0.258	0.258	ND	1.00	1.00	11/26/24	AW	1
Carbon Disulfide	ND	0.321	0.321	ND	1.00	1.00	11/26/24	AW	1
Carbon Tetrachloride	0.076	0.032	0.032	0.48	0.20	0.20	11/26/24	AW	1
Chlorobenzene	ND	0.217	0.217	ND	1.00	1.00	11/26/24	AW	1
Chloroethane	ND	0.379	0.379	ND	1.00	1.00	11/26/24	AW	1
Chloroform	ND	0.205	0.205	ND	1.00	1.00	11/26/24	AW	1
Chloromethane	0.612	0.485	0.485	1.26	1.00	1.00	11/26/24	AW	1
Cis-1,2-Dichloroethene	ND	0.051	0.051	ND	0.20	0.20	11/26/24	AW	1
cis-1,3-Dichloropropene	ND	0.221	0.221	ND	1.00	1.00	11/26/24	AW	1
Cyclohexane	ND	0.291	0.291	ND	1.00	1.00	11/26/24	AW	1
Dibromochloromethane	ND	0.118	0.118	ND	1.00	1.00	11/26/24	AW	1
Dichlorodifluoromethane	0.479	0.202	0.202	2.37	1.00	1.00	11/26/24	AW	1
Ethanol	10.7	0.531	0.531	20.1	1.00	1.00	11/26/24	AW	1
Ethyl acetate	ND	0.278	0.278	ND	1.00	1.00	11/26/24	AW	1
Ethylbenzene	ND	0.230	0.230	ND	1.00	1.00	11/26/24	AW	1
Heptane	ND	0.244	0.244	ND	1.00	1.00	11/26/24	AW	1
Hexachlorobutadiene	ND	0.094	0.094	ND	1.00	1.00	11/26/24	AW	1
Hexane	ND	0.284	0.284	ND	1.00	1.00	11/26/24	AW	1
Isooctane	ND	0.215	0.215	ND	1.00	1.00	11/26/24	AW	1
Isopropylalcohol	0.846	0.407	0.407	2.08	1.00	1.00	11/26/24	AW	1
Isopropylbenzene	ND	0.204	0.204	ND	1.00	1.00	11/26/24	AW	1
m,p-Xylene	ND	0.230	0.230	ND	1.00	1.00	11/26/24	AW	1
Methyl Ethyl Ketone	ND	0.339	0.339	ND	1.00	1.00	11/26/24	AW	1
Methyl tert-butyl ether(MTBE)	ND	0.278	0.278	ND	1.00	1.00	11/26/24	AW	1
Methylene Chloride	ND	0.863	0.863	ND	3.00	3.00	11/26/24	AW	1
Naphthalene	ND	0.200	0.200	ND	1.05	1.05	11/26/24	AW	1
n-Butylbenzene	ND	0.182	0.182	ND	1.00	1.00	11/26/24	AW	1
o-Xylene	ND	0.230	0.230	ND	1.00	1.00	11/26/24	AW	1
Propylene	ND	0.581	0.581	ND	1.00	1.00	11/26/24	AW	1
sec-Butylbenzene	ND	0.182	0.182	ND	1.00	1.00	11/26/24	AW	1
Styrene	ND	0.235	0.235	ND	1.00	1.00	11/26/24	AW	1
Tetrachloroethene	0.149	0.037	0.037	1.01	0.25	0.25	11/26/24	AW	1
Tetrahydrofuran	ND	0.339	0.339	ND	1.00	1.00	11/26/24	AW	1
Toluene	0.389	0.266	0.266	1.47	1.00	1.00	11/26/24	AW	1
Trans-1,2-Dichloroethene	ND	0.252	0.252	ND	1.00	1.00	11/26/24	AW	1
trans-1,3-Dichloropropene	ND	0.221	0.221	ND	1.00	1.00	11/26/24	AW	1
Trichloroethene	0.037	0.037	0.037	0.20	0.20	0.20	11/26/24	AW	1
Trichlorofluoromethane	0.215	0.178	0.178	1.21	1.00	1.00	11/26/24	AW	1
Trichlorotrifluoroethane	ND	0.131	0.131	ND	1.00	1.00	11/26/24	AW	1
Vinyl Chloride	ND	0.078	0.078	ND	0.20	0.20	11/26/24	AW	1
<u>QA/QC Surrogates/Internals</u>									
% Bromofluorobenzene	97	%	%	97	%	%	11/26/24	AW	1
% IS-1,4-Difluorobenzene	93	%	%	93	%	%	11/26/24	AW	1
% IS-Bromochloromethane	95	%	%	95	%	%	11/26/24	AW	1
% IS-Chlorobenzene-d5	92	%	%	92	%	%	11/26/24	AW	1

Client ID: OA-1

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution

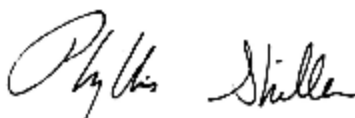
1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected BRL=Below Reporting Level L=Biased Low LOD=Limit of Detection MDL=Method Detection Limit1

QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

December 20, 2024

Reviewed and Released by: Rashmi Makol, Project Manager



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823



Canister Sampling Information

December 20, 2024

FOR: Attn: Ariel Czemerinski
AMC Engineering PLLC
18-36 42nd Street
Astoria, NY 11105

Location Code: AMC-ENG

SDG I.D.: GCS16244

Project ID: 218 FRONT STREET

Client Id	Lab Id	Canister		Reg. Id	Chk Out Date	Laboratory					Field			
		Id	Type			Out Hg	In Hg	Out Flow	In Flow	Flow RPD	Start Hg	End Hg	Sampling Start Date	Sampling End Date
IA-2	CS16244	19806	6.0L	4498	11/20/24	-30	-2	11.4	11.7	2.6	-30	-7.5	11/25/24 08:46	11/25/24 17:18
IA-1	CS16245	23344	6.0L	10766	11/20/24	-30	-3	11.1	11.5	3.5	-30	-3	11/25/24 08:57	11/25/24 17:05
SS-2	CS16246	49198	6.0L	19839	11/20/24	-30	-3	11.1	11.3	1.8	-30	-2.5	11/25/24 08:39	11/25/24 16:26
SS-1	CS16247	480	6.0L	7029	11/20/24	-30	-4	11.4	11.9	4.3	-24	-3	11/25/24 09:30	11/25/24 17:03
IA-4	CS16248	455	6.0L	10653	11/20/24	-30	-3	11.1	11.7	5.3	-30	-3	11/25/24 08:11	11/25/24 15:44
DUPLICATE	CS16249	12862	6.0L	10740	11/20/24	-30	-4	11.3	11.8	4.3	-29	-3	11/25/24 07:56	11/25/24 15:42
IA-3	CS16250	21357	6.0L	10768	11/20/24	-30	-5	10.9	11.5	5.4	-27.5	-3	11/25/24 07:58	11/25/24 15:42
OA-1	CS16251	16001	6.0L	10760	11/20/24	-30	-4	11.1	11	0.9	-28.5	-3	11/25/24 09:47	11/25/24 13:30



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102



QA/QC Report

December 20, 2024

QA/QC Data

SDG I.D.: GCS16244

Parameter	Blk ppbv	Blk RL ppbv	Blk ug/m3	Blk RL ug/m3	LCS %	Sample Result ug/m3	Sample Dup ug/m3	Sample Result ppbv	Sample Dup ppbv	DUP RPD	% Rec Limits	% RPD Limits

QA/QC Batch 760215 (ppbv), QC Sample No: CS16244 (CS16244, CS16245, CS16246 (5X) , CS16247 (5X) , CS16248, CS16249, CS16250, CS16251)

Volatiles

1,1,1,2-Tetrachloroethane	ND	0.150	ND	1.03	99	ND	ND	ND	ND	NC	70 - 130	25
1,1,1-Trichloroethane	ND	0.180	ND	0.98	106	ND	ND	ND	ND	NC	70 - 130	25
1,1,2,2-Tetrachloroethane	ND	0.150	ND	1.03	103	ND	ND	ND	ND	NC	70 - 130	25
1,1,2-Trichloroethane	ND	0.180	ND	0.98	100	ND	ND	ND	ND	NC	70 - 130	25
1,1-Dichloroethane	ND	0.250	ND	1.01	106	ND	ND	ND	ND	NC	70 - 130	25
1,1-Dichloroethene	ND	0.050	ND	0.20	108	ND	ND	ND	ND	NC	70 - 130	25
1,2,4-Trichlorobenzene	ND	0.130	ND	0.96	93	ND	ND	ND	ND	NC	70 - 130	25
1,2,4-Trimethylbenzene	ND	0.200	ND	0.98	106	ND	ND	ND	ND	NC	70 - 130	25
1,2-Dibromoethane(EDB)	ND	0.130	ND	1.00	100	ND	ND	ND	ND	NC	70 - 130	25
1,2-Dichlorobenzene	ND	0.170	ND	1.02	104	ND	ND	ND	ND	NC	70 - 130	25
1,2-Dichloroethane	ND	0.250	ND	1.01	111	ND	ND	ND	ND	NC	70 - 130	25
1,2-dichloropropane	ND	0.220	ND	1.02	101	ND	ND	ND	ND	NC	70 - 130	25
1,2-Dichlorotetrafluoroethane	ND	0.140	ND	0.98	109	ND	ND	ND	ND	NC	70 - 130	25
1,3,5-Trimethylbenzene	ND	0.200	ND	0.98	103	ND	ND	ND	ND	NC	70 - 130	25
1,3-Butadiene	ND	0.450	ND	0.99	117	ND	ND	ND	ND	NC	70 - 130	25
1,3-Dichlorobenzene	ND	0.170	ND	1.02	106	ND	ND	ND	ND	NC	70 - 130	25
1,4-Dichlorobenzene	ND	0.170	ND	1.02	110	ND	ND	ND	ND	NC	70 - 130	25
1,4-Dioxane	ND	0.280	ND	1.01	102	ND	ND	ND	ND	NC	70 - 130	25
2,2,4-Trimethylpentane	ND	0.210	ND	0.98	108	1.58	1.57	0.339	0.337	NC	70 - 130	25
2-Hexanone(MBK)	ND	0.240	ND	0.98	122	ND	ND	ND	ND	NC	70 - 130	25
4-Ethyltoluene	ND	0.200	ND	0.98	104	ND	ND	ND	ND	NC	70 - 130	25
4-Isopropyltoluene	ND	0.180	ND	0.99	96	ND	ND	ND	ND	NC	70 - 130	25
4-Methyl-2-pentanone(MIBK)	ND	0.240	ND	0.98	118	ND	ND	ND	ND	NC	70 - 130	25
Acetone	ND	0.420	ND	1.00	111	30.1	29.4	12.7	12.4	2.4	70 - 130	25
Acrylonitrile	ND	0.460	ND	1.00	105	ND	ND	ND	ND	NC	70 - 130	25
Benzene	ND	0.310	ND	0.99	98	1.97	1.97	0.617	0.618	NC	70 - 130	25
Benzyl chloride	ND	0.190	ND	0.98	101	ND	ND	ND	ND	NC	70 - 130	25
Bromodichloromethane	ND	0.150	ND	1.00	107	ND	ND	ND	ND	NC	70 - 130	25
Bromoform	ND	0.097	ND	1.00	106	ND	ND	ND	ND	NC	70 - 130	25
Bromomethane	ND	0.260	ND	1.01	103	ND	ND	ND	ND	NC	70 - 130	25
Carbon Disulfide	ND	0.320	ND	1.00	100	ND	ND	ND	ND	NC	70 - 130	25
Carbon Tetrachloride	ND	0.032	ND	0.20	109	0.47	0.48	0.075	0.077	NC	70 - 130	25
Chlorobenzene	ND	0.220	ND	1.01	100	ND	ND	ND	ND	NC	70 - 130	25
Chloroethane	ND	0.380	ND	1.00	105	ND	ND	ND	ND	NC	70 - 130	25
Chloroform	ND	0.200	ND	0.98	105	ND	ND	ND	ND	NC	70 - 130	25
Chloromethane	ND	0.480	ND	0.99	121	1.29	1.27	0.626	0.613	NC	70 - 130	25
Cis-1,2-Dichloroethene	ND	0.050	ND	0.20	105	ND	ND	ND	ND	NC	70 - 130	25
cis-1,3-Dichloropropene	ND	0.220	ND	1.00	103	ND	ND	ND	ND	NC	70 - 130	25
Cyclohexane	ND	0.290	ND	1.00	96	ND	ND	ND	ND	NC	70 - 130	25
Dibromochloromethane	ND	0.120	ND	1.02	105	ND	ND	ND	ND	NC	70 - 130	25

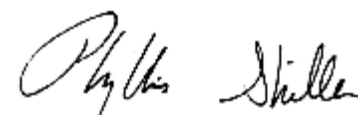
QA/QC Data

SDG I.D.: GCS16244

Parameter	Blk ppbv	Blk RL ppbv	Blk ug/m3	Blk RL ug/m3	LCS %	Sample Result ug/m3	Sample Dup ug/m3	Sample Result ppbv	Sample Dup ppbv	DUP RPD	% Rec Limits	% RPD Limits
Dichlorodifluoromethane	ND	0.200	ND	0.99	108	2.22	2.21	0.449	0.448	NC	70 - 130	25
Ethanol	ND	0.530	ND	1.00	114	32.2	31.4	17.1	16.7	2.4	70 - 130	25
Ethyl acetate	ND	0.280	ND	1.01	130	ND	ND	ND	ND	NC	70 - 130	25
Ethylbenzene	ND	0.230	ND	1.00	101	1.12	1.10	0.259	0.254	NC	70 - 130	25
Heptane	ND	0.240	ND	0.98	118	ND	ND	ND	ND	NC	70 - 130	25
Hexachlorobutadiene	ND	0.094	ND	1.00	102	ND	ND	ND	ND	NC	70 - 130	25
Hexane	ND	0.280	ND	0.99	109	1.45	1.39	0.413	0.394	NC	70 - 130	25
Isopropylalcohol	ND	0.410	ND	1.01	108	1.91	1.72	0.777	0.700	NC	70 - 130	25
Isopropylbenzene	ND	0.200	ND	0.98	97	ND	ND	ND	ND	NC	70 - 130	25
m,p-Xylene	ND	0.230	ND	1.00	105	4.09	4.08	0.942	0.941	NC	70 - 130	25
Methyl Ethyl Ketone	ND	0.340	ND	1.00	115	ND	ND	ND	ND	NC	70 - 130	25
Methyl tert-butyl ether(MTBE)	ND	0.280	ND	1.01	101	ND	ND	ND	ND	NC	70 - 130	25
Methylene Chloride	ND	0.860	ND	2.99	111	ND	ND	ND	ND	NC	70 - 130	25
Naphthalene	ND	0.200	ND	1.05	93	ND	ND	ND	ND	NC	70 - 130	25
n-Butylbenzene	ND	0.180	ND	0.99	104	ND	ND	ND	ND	NC	70 - 130	25
o-Xylene	ND	0.230	ND	1.00	103	1.35	1.32	0.310	0.305	NC	70 - 130	25
Propylene	ND	0.580	ND	1.00	115	ND	ND	ND	ND	NC	70 - 130	25
sec-Butylbenzene	ND	0.180	ND	0.99	97	ND	ND	ND	ND	NC	70 - 130	25
Styrene	ND	0.230	ND	0.98	102	ND	ND	ND	ND	NC	70 - 130	25
Tetrachloroethene	ND	0.037	ND	0.25	98	ND	ND	ND	ND	NC	70 - 130	25
Tetrahydrofuran	ND	0.340	ND	1.00	118	ND	ND	ND	ND	NC	70 - 130	25
Toluene	ND	0.270	ND	1.02	101	3.88	3.92	1.03	1.04	NC	70 - 130	25
Trans-1,2-Dichloroethene	ND	0.250	ND	0.99	104	ND	ND	ND	ND	NC	70 - 130	25
trans-1,3-Dichloropropene	ND	0.220	ND	1.00	100	ND	ND	ND	ND	NC	70 - 130	25
Trichloroethene	ND	0.037	ND	0.20	101	ND	ND	ND	ND	NC	70 - 130	25
Trichlorofluoromethane	ND	0.180	ND	1.01	103	1.17	1.16	0.208	0.206	NC	70 - 130	25
Trichlorotrifluoroethane	ND	0.130	ND	1.00	103	ND	ND	ND	ND	NC	70 - 130	25
Vinyl Chloride	ND	0.078	ND	0.20	109	ND	ND	ND	ND	NC	70 - 130	25
% Bromofluorobenzene	85	%	85	%	99	96	98	96	98	NC	70 - 130	25
% IS-1,4-Difluorobenzene	104	%	104	%	101	95	96	95	96	NC	60 - 140	25
% IS-Bromochloromethane	104	%	104	%	97	96	97	96	97	NC	60 - 140	25
% IS-Chlorobenzene-d5	102	%	102	%	108	94	95	94	95	NC	60 - 140	25

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

- RPD - Relative Percent Difference
- LCS - Laboratory Control Sample
- LCSD - Laboratory Control Sample Duplicate
- MS - Matrix Spike
- MS Dup - Matrix Spike Duplicate
- NC - No Criteria
- Intf - Interference
- (ISO) - Isotope Dilution


Phyllis Shiller, Laboratory Director
December 20, 2024

Sample Criteria Exceedances Report

GCS16244 - AMC-ENG

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
CS16244	\$AIR_NYTO15	Carbon Tetrachloride	NY / Air Guideline Values / Indoor Air	0.075	0.032	0.032	0.032	ppbv
CS16245	\$AIR_NYTO15	Carbon Tetrachloride	NY / Air Guideline Values / Indoor Air	0.078	0.032	0.032	0.032	ppbv
CS16246	\$AIR_NYTO15	Trichloroethene	NY / Air Guideline Values / Indoor Air	ND	0.185	0.037	0.037	ppbv
CS16246	\$AIR_NYTO15	Vinyl Chloride	NY / Air Guideline Values / Indoor Air	ND	0.390	0.078	0.078	ppbv
CS16246	\$AIR_NYTO15	Tetrachloroethene	NY / Air Guideline Values / Indoor Air	4.57	0.184	0.443	0.443	ppbv
CS16246	\$AIR_NYTO15	Methylene Chloride	NY / Air Guideline Values / Indoor Air	ND	4.32	0.864	0.864	ppbv
CS16246	\$AIR_NYTO15	Cis-1,2-Dichloroethene	NY / Air Guideline Values / Indoor Air	ND	0.252	0.051	0.051	ppbv
CS16246	\$AIR_NYTO15	Carbon Tetrachloride	NY / Air Guideline Values / Indoor Air	ND	0.159	0.032	0.032	ppbv
CS16246	\$AIR_NYTO15	1,1-Dichloroethene	NY / Air Guideline Values / Indoor Air	ND	0.252	0.051	0.051	ppbv
CS16246	\$AIR_NYTO15	1,1,1-Trichloroethane	NY / Air Guideline Values / Indoor Air	ND	0.917	0.55	0.55	ppbv
CS16246	\$AIR_NYTO15	1,1-Dichloroethene	NY / Air Guideline Values / Indoor Air	ND	1.0	0.2	0.2	ug/m3
CS16246	\$AIR_NYTO15	Carbon Tetrachloride	NY / Air Guideline Values / Indoor Air	ND	1.0	0.2	0.2	ug/m3
CS16246	\$AIR_NYTO15	Cis-1,2-Dichloroethene	NY / Air Guideline Values / Indoor Air	ND	1.0	0.2	0.2	ug/m3
CS16246	\$AIR_NYTO15	Methylene Chloride	NY / Air Guideline Values / Indoor Air	ND	15	3	3	ug/m3
CS16246	\$AIR_NYTO15	Trichloroethene	NY / Air Guideline Values / Indoor Air	ND	1.0	0.2	0.2	ug/m3
CS16246	\$AIR_NYTO15	Vinyl Chloride	NY / Air Guideline Values / Indoor Air	ND	1.0	0.2	0.2	ug/m3
CS16246	\$AIR_NYTO15	1,1,1-Trichloroethane	NY / Air Guideline Values / Indoor Air	ND	5	3	3	ug/m3
CS16247	\$AIR_NYTO15	Carbon Tetrachloride	NY / Air Guideline Values / Indoor Air	ND	0.159	0.032	0.032	ppbv
CS16247	\$AIR_NYTO15	1,1-Dichloroethene	NY / Air Guideline Values / Indoor Air	ND	0.252	0.051	0.051	ppbv
CS16247	\$AIR_NYTO15	Cis-1,2-Dichloroethene	NY / Air Guideline Values / Indoor Air	ND	0.252	0.051	0.051	ppbv
CS16247	\$AIR_NYTO15	Methylene Chloride	NY / Air Guideline Values / Indoor Air	ND	4.32	0.864	0.864	ppbv
CS16247	\$AIR_NYTO15	Tetrachloroethene	NY / Air Guideline Values / Indoor Air	44.1	0.184	0.443	0.443	ppbv
CS16247	\$AIR_NYTO15	Trichloroethene	NY / Air Guideline Values / Indoor Air	ND	0.185	0.037	0.037	ppbv
CS16247	\$AIR_NYTO15	Vinyl Chloride	NY / Air Guideline Values / Indoor Air	ND	0.390	0.078	0.078	ppbv
CS16247	\$AIR_NYTO15	1,1,1-Trichloroethane	NY / Air Guideline Values / Indoor Air	ND	0.917	0.55	0.55	ppbv
CS16247	\$AIR_NYTO15	Tetrachloroethene	NY / Air Guideline Values / Sub-Slab Vapor	44.1	0.184	14.8	14.8	ppbv
CS16247	\$AIR_NYTO15	1,1-Dichloroethene	NY / Air Guideline Values / Indoor Air	ND	1.0	0.2	0.2	ug/m3
CS16247	\$AIR_NYTO15	Vinyl Chloride	NY / Air Guideline Values / Indoor Air	ND	1.0	0.2	0.2	ug/m3
CS16247	\$AIR_NYTO15	Trichloroethene	NY / Air Guideline Values / Indoor Air	ND	1.0	0.2	0.2	ug/m3
CS16247	\$AIR_NYTO15	Methylene Chloride	NY / Air Guideline Values / Indoor Air	ND	15	3	3	ug/m3
CS16247	\$AIR_NYTO15	Carbon Tetrachloride	NY / Air Guideline Values / Indoor Air	ND	1.0	0.2	0.2	ug/m3
CS16247	\$AIR_NYTO15	1,1,1-Trichloroethane	NY / Air Guideline Values / Indoor Air	ND	5	3	3	ug/m3
CS16247	\$AIR_NYTO15	Cis-1,2-Dichloroethene	NY / Air Guideline Values / Indoor Air	ND	1.0	0.2	0.2	ug/m3
CS16248	\$AIR_NYTO15	Carbon Tetrachloride	NY / Air Guideline Values / Indoor Air	0.075	0.032	0.032	0.032	ppbv
CS16249	\$AIR_NYTO15	Carbon Tetrachloride	NY / Air Guideline Values / Indoor Air	0.077	0.032	0.032	0.032	ppbv
CS16250	\$AIR_NYTO15	Carbon Tetrachloride	NY / Air Guideline Values / Indoor Air	0.078	0.032	0.032	0.032	ppbv
CS16250	\$AIR_NYTO15	Trichloroethene	NY / Air Guideline Values / Indoor Air	0.146	0.037	0.037	0.037	ppbv

Criteria: NY: AIRIA, AIRSV
State: NY

Sample Criteria Exceedances Report
GCS16244 - AMC-ENG

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
CS16251	\$AIR_NYTO15	Carbon Tetrachloride	NY / Air Guideline Values / Indoor Air	0.076	0.032	0.032	0.032	ppbv

Phoenix Laboratories does not assume responsibility for the data contained in this exceedance report. It is provided as an additional tool to identify requested criteria exceedences. All efforts are made to ensure the accuracy of the data (obtained from appropriate agencies). A lack of exceedence information does not necessarily suggest conformance to the criteria. It is ultimately the site professional's responsibility to determine appropriate compliance.



381 East Middle Turnpike P.O. Box 370 New Rochelle, NY 10804
Telephone: 914/645-1102 Fax: 914/645-0813

AMC-ENG

CHAIN OF CUSTODY RECORD

AIR ANALYSES

P.O. #

Page 1 of 1

Data Delivery:

☐ Fax #:

☐ Email:

☐ Phone #:

860-645-1102

email: greg@phoenixlabs.com

Report to:		Project Name:		Data Format:		Equis		Other:								
Customer:		Invoice to:		Requested Deliverable:		RCP		ASP-CAT B								
Address:		Sampled by:		MCP		NJ Deliverables										
16514		Ahmed Elbadawi		Quote Number:												
16514		Astoria, NY 11105														
Phoenix ID #	Client Sample ID	Canister ID #	Canister Size (L)	Outgoing Canister Pressure (in Hg)	Incoming Canister Pressure (in Hg)	Flow Regulator ID #	Flow Controller Setting (mL/min)	Sampling Start Time	Sampling End Time	Sample Start Date	Canister Pressure at Start (in Hg)	Canister Pressure at End (in Hg)	Soil Gas	Grab (C) Composite (C)	TO-15	ANALYSES
110244	TA-2	19806	6.0L	-30	-2	4498	11.4	8:46A	5:18PM	11/25/24	-30	-7.5	X		X	
110245	IA-1	23344	6.0L	-30	-3	10766	11.1	8:57A	5:50A		-30	-3	X		X	
110246	SS-2	49198	6.0L	-30	-3	19839	11.1	8:39A	4:10P		-30	-2.5	X		X	
110247	SS-1	480	6.0L	-30	-4	7029	11.4	9:30A	5:08P		-24	-3	X		X	
110248	IA-4	455	6.0L	-30	-3	10653	11.1	8:11A	3:44P		-30	-3	X		X	
110249	Duplicate	12862	6.0L	-30	-4	10740	11.3	7:56A	3:40P		-29	-3	X		X	
110250	IA-3	21357	6.0L	-30	-5	10768	10.9	7:58A	3:42P		-27.5	-3	X		X	
110251	OA-1	16001	6.0L	-30	-4	10760	11.1	9:47A	5:30P		-28.5	-3	X		X	
Relinquished by: <i>[Signature]</i> Date: 11/26/24																
Accepted by: <i>[Signature]</i> Date: 11/26/24																
Signature: <i>[Signature]</i> Date: 11/25/24																
State Where Samples Collected: NY																
SPECIAL INSTRUCTIONS, REQUIREMENTS, REGULATORY INFORMATION:																
(H) - 6.0L 8 hr. 2 Connectors																

Sarah Bell

From: Anjeza Harrington <AnjezaH@amc-engineering.com>
Sent: Wednesday, November 27, 2024 12:07 PM
To: Sarah Bell
Cc: Andrew Sung; Aaliyah
Subject: GCS16244
Attachments: Sample Acknowledgement.pdf

Hello Sarah,

We noticed the Project Name and Invoice information was left black in the COC. Can you please fill those in with the following:

Project Name: 218 Front Street

Invoice to: AMC Engineering PLLC (Line 1) 18-36 42nd Street, Astoria NY 11105 (Line 2)

I apologize for the inconvenience.

Best regards,

Anjeza Harrington

Environmental Engineer



AMC Engineering, PLLC
18-36 42nd Street
Astoria, NY 11105



587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040
Telephone: 860.645.1102 • Fax: 860.645.0823

NY ANALYTICAL SERVICES PROTOCOL
DATA PACKAGE

Client: AMC Engineering PLLC

218 FRONT STREET

Laboratory Project: GCS16244

Volatile TO15
Ver 1

Organic Data Flags

LOD(MDL):	Limit of Detection or Method Detection Limit The minimum reportable concentration that can be measured with confidence.
PQL(RL):	Practical Quantitation Level or Reporting Level This value is at or above the MDL and is supported by the lowest calibration standard.
Q Qualifiers:	U - The compound was analyzed for but not detected at or above the MDL. The number immediately preceding the "U" represents the PQL reporting level corrected for percent solids, weight and/or volume calculations, and dilution factors. J - Indicates an estimated value, may indicate one of the following, depending on the situation: a) The reported value is estimated and below the RL. Compounds that are detected above MDL but below RL are qualified with a J flag. b) Used when estimating a concentration for TIC where a 1:1 response is assumed or when the result indicates the presence of a compound that meets the identification criteria, but the results is less than the quantitation limit, but greater than zero. c) QC associated with this analyte is within warning limits. X - The concentration is not reported. This quantitation file was not evaluated for this compound at this dilution; a volatile purging or related issue may be the cause. L - Biased Low N - The concentration is based on the response of the nearest internal. This flag is used on the TIC form for all compounds identified. S - This compound is a solvent that is used in the laboratory. Laboratory contamination is suspected if concentration is less than five times the reporting level. B - This compound was also present in the method blank D - The reported concentration is the result of a diluted analysis. Samples that require dilution may result in elevated reporting limits that exceed requested criteria for one or more analytes. E - The reported value is estimated because the concentration exceeded the calibration range. A - Indicates that the tentatively identified compound is a suspected aldol condensation product. Aldol condensation products are produced during the extraction process. Q - For TICS, this compound was quantitated using a calibration curve. This compound is part of the instrument method, but not part of the client target list. P- Percent difference is greater than 25% between the two GC columns and the lower result is reported.



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06040
Tel. (860) 645-1102 Fax (860) 645-0823



SDG: GCS16244

Volatile Air Conformance / Non-Conformance Summary

Project ID / Client ID: 218 FRONT STREET, AMC Engineering PLLC

Form 1 (Analysis):

No observations noted.

Detailed reference spectra will print 'Below Cal' for the full scan compounds that are reported from the SIM and are below the lowest calibration point in the full scan analysis. If analytes required manual integration. Manual integrations are flagged with an 'm' to indicate the analyte that required this process.

Form 2 (Surrogates):

All surrogates met criteria with the following exceptions: None.

Form 3 (Laboratory Control/Matrix Spike):

Sample: 10ppb RL
All RL recoveries met criteria with the following exceptions: None.

Sample: CS16244 LCS
All LCS recoveries met criteria with the following exceptions: None.

Form 4 (Method Blank):

File: CHEM24 1126_05.D
All compounds were non-detect with the following exceptions: None.

Form 5 (Tune):

File: CHEM24 1018_01.D
All Tune criteria was met with the following exceptions: None.

File: CHEM24 1126_02.D
All Tune criteria was met with the following exceptions: None.

Form 6 (Initial Calibration):

Calibration: CHEM24 10/18/24 - 10/18/24
100% of method compounds met criteria.
The following compounds did not meet maximum % deviations: None.

All ICV recoveries met criteria (70-130) with the following exceptions: Ethanol 62%, 1,2,4-Trichlorobenzene 67%, Naphthalene 64%, Hexachlorobutadiene 66%.

Form 7 (Continuing Calibration):

File: CHEM24 1126_02.D (Opening)
100% of method compounds met criteria.
The following compounds did not meet maximum % deviations: Benzyl chloride 43.0% (20), 1,2,4-Trichlorobenzene 69.0% (20), Naphthalene 70.0% (20), 1,2,4-Trichlorobenzene(sim) 48.0% (20)

File: CHEM24 1126_21.D (Closing)



Environmental Laboratories, Inc.
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Tel. (860) 645-1102 Fax (860) 645-0823



SDG: GCS16244

Volatile Air Conformance / Non-Conformance Summary

Project ID / Client ID: 218 FRONT STREET, AMC Engineering PLLC

The following compounds did not meet maximum % deviations: Benzyl chloride 42.0% (20), 1,2,4-Trichlorobenzene 68.0% (20), Naphthalene 71.0% (20), 1,2,4-Trichlorobenzene(sim) 47.0% (20)

Form 8 (Internal Standard and Retention Time):

File: CHEM24 - 24_AIR_1018.M / 1126_02.D Full

All samples met internal standard area and retention time criteria with the following exceptions: None.

File: CHEM24 - 24_AIR_1018.M / 1126_02.D Sim

All samples met internal standard area and retention time criteria with the following exceptions: None.

File: CHEM24 - 24_AIR_1018.M / Average Full

All samples met internal standard area and retention time criteria with the following exceptions: None.

File: CHEM24 - 24_AIR_1018.M / Average Sim

All samples met internal standard area and retention time criteria with the following exceptions: None.

Any compound that is not detected above the MDL/LOD is reported as ND on the report and is reported in the electronic deliverables (EDD) as <RL or U at the RL per state and EPA guidance.

12/17/24

Alejandro Paredes

Project Manager

Lab Name: Phoenix Environmental Labs Client: AMC-ENG

Lab Code: Phoenix Case No.: SDG: GCS16244

QC Batch Id: 760215 QC Sample Id: CS16244

	CLIENT ID	LAB ID	SMC1 BFB #				TOT OUT
01	CS16244 LCS	CS16244 LCS	99				0
02	CS16244 BLANK	CS16244 BLANK	85				0
03	IA-2	CS16244	96				0
04	IA-2 DUP	CS16244 DUP	98				0
05	IA-1	CS16245	100				0
06	IA-4	CS16248	98				0
07	DUPLICATE	CS16249	99				0
08	IA-3	CS16250	100				0
09	OA-1	CS16251	97				0
10	SS-2 5X	CS16246 5X	97				0
11	SS-1 5X	CS16247 5X	98				0
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29							
30							

Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogate diluted out

Page 45 of 272

3
AIR LCS RECOVERY

Lab Name: Phoenix Environmental Labs Client: AMC-ENG

Lab Code: Phoenix Case No: _____ SAS No: _____ SDG No GCS16244

LCS - Client Id: CS16244 LCS

COMPOUND	SPIKE ADDED (ppbv)		LCS CONCENTRATION (ppbv)	LCS % REC #	QC. LIMITS REC.	
Propylene	10		11.52	115	70	130
Dichlorodifluoromethane	10		10.79	108	70	130
Chloromethane	10		12.14	121	70	130
1,2-Dichlorotetrafluoroethane	10		10.91	109	70	130
Vinyl Chloride	10		10.90	109	70	130
1,3-Butadiene	10		11.70	117	70	130
Bromomethane	10		10.25	103	70	130
Chloroethane	10		10.50	105	70	130
Ethanol	6		7.225	120	70	130
Acetone	10		11.14	111	70	130
Trichlorofluoromethane	10		10.29	103	70	130
Isopropylalcohol	10		10.75	108	70	130
Acrylonitrile	10		10.49	105	70	130
1,1-Dichloroethene	10		10.85	109	70	130
Methylene Chloride	10		11.05	111	70	130
Carbon Disulfide	10		9.976	100	70	130
Trichlorotrifluoroethane	10		10.29	103	70	130
Trans-1,2-Dichloroethene	10		10.40	104	70	130
1,1-Dichloroethane	10		10.57	106	70	130
Methyl tert-butyl ether(MTBE)	10		10.09	101	70	130
Methyl Ethyl Ketone	10		11.48	115	70	130
Cis-1,2-Dichloroethene	10		10.47	105	70	130
Hexane	10		10.87	109	70	130
Chloroform	10		10.46	105	70	130
Ethyl acetate	10		12.96	130	70	130
Tetrahydrofuran	10		11.82	118	70	130
1,2-Dichloroethane	10		11.14	111	70	130
1,1,1-Trichloroethane	10		10.59	106	70	130
Benzene	10		9.796	98	70	130
Carbon Tetrachloride	10		10.92	109	70	130
Cyclohexane	10		9.566	96	70	130
1,2-dichloropropane	10		10.14	101	70	130
Bromodichloromethane	10		10.66	107	70	130
Trichloroethene	10		10.10	101	70	130
2,2,4-trimethylpentane	10		10.81	108	70	130
1,4-Dioxane	10		10.23	102	70	130
Heptane	10		11.80	118	70	130
cis-1,3-Dichloropropene	10		10.34	103	70	130
4-Methyl-2-pentanone(MIBK)	10		11.84	118	70	130
trans-1,3-Dichloropropene	10		10.01	100	70	130
1,1,2-Trichloroethane	10		10.01	100	70	130
Toluene	10		10.07	101	70	130
Dibromochloromethane	10		10.50	105	70	130
2-Hexanone(MBK)	10		12.24	122	70	130

FORM III AIR

Lab Name: Phoenix Environmental Labs

Client: AMC-ENG

Lab Code: Phoenix

Case No:

SAS No:

SDG No: GCS16244

LCS - Client Id: CS16244 LCS

[illegible]

4A
AIR METHOD BLANK SUMMARY

Client ID

CS16244 BLANK

Lab Name: Phoenix Environmental Labs

Client: AMC-ENG

Lab Code: Phoenix Case No.: _____

SAS No.: _____

SDG No.: GCS16244

Lab File ID: 1126_05.D

Lab Sample ID: CS16244 BLK

Date Analyzed: 11/26/2024

Time Analyzed: 15:41

GC Column: RTX-1

Lab Batch ID: 760215

Instrument ID: CHEM24

Heated Purge:(Y/N) Y

THIS METHOD BLANK APPLIES TO THE FOLLOWING QC AND FIELD SAMPLES:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	CS16244 LCS	CS16244 LCS	1126_04.D	15:07
02	IA-2	CS16244	1126_08.D	19:22
03	IA-2 DUP	CS16244 DUP	1126_09.D	20:00
04	IA-1	CS16245	1126_10.D	20:37
05	IA-4	CS16248	1126_11.D	21:14
06	DUPLICATE	CS16249	1126_12.D	21:52
07	IA-3	CS16250	1126_13.D	22:29
08	OA-1	CS16251	1126_14.D	23:07
09	SS-2 5X	CS16246 5X	1126_16.D	00:22
10	SS-1 5X	CS16247 5X	1126_17.D	00:59
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				

COMMENTS:

FORM IV AIR

5B
AIR INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Phoenix Environmental Labs

Client: AMC-ENG

Lab Code: Phoenix Case No.: _____

SAS No.: _____

SDG No.: GCS16244

Lab File ID: 1018_01.D

BFB Injection Date: 10/18/24

Instrument ID: CHEM24

BFB Injection Time: 14:33

GC Column: RTX-1

Heated Purge: (Y/N) Y

AutoFind: Scans 1071, 1072, 1073; Background Corrected with Scan 1065

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	21.0
75	30.0 - 66.0% of mass 95	42.2
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.6
173	Less than 2.0% of mass 174	0.9 (0.8)1
174	50.0 - 120.0% of mass 95	106.0
175	4.0 - 9.0% of mass 174	7.4 (7.9)1
176	93.0 - 101.0% of mass 174	97.4 (104.0)1
177	5.0 - 9.0% of mass 176	6.5 (6.7)1

1-Value is % mass 95

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	CLIENT ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED	
01	ICAL 0.01	0.01 (40cc -1); TO1511	1018_02.D	10/18/24	15:10	
02	ICAL 0.02	0.02 (80cc -1) ; TO1511	1018_03.D	10/18/24	15:45	
03	ICAL 0.035	0.035 (140cc -1) ; TO1511	1018_04.D	10/18/24	16:24	
04	ICAL 0.05	0.05 ppb ; TO1511	1018_05.D	10/18/24	17:01	
05	ICAL 0.1	0.10 ppb ; TO1511	1018_06.D	10/18/24	17:37	
06	ICAL 0.2	0.20 ppb ; TO1511	1018_07.D	10/18/24	18:11	
07	ICAL 0.5	0.50 ppb ; TO1511	1018_08.D	10/18/24	18:48	
08	ICAL 2.5	2.5 ppb ; TO1511	1018_09.D	10/18/24	19:28	
09	ICAL 5	5.0 ppb ; TO1511	1018_10.D	10/18/24	20:01	
10	ICAL 25	25 ppb ; TO1511	1018_11.D	10/18/24	20:39	
11	ICAL 40	40 ppb ; TO1511	1018_12.D	10/18/24	21:20	
12	ICAL 1	1ppb ; TO1509 ; AIR36	1018_13.D	10/18/24	21:58	
13	ICAL 10	10ppb ; TO1509 ; AIR36	1018_14.D	10/18/24	22:33	
14	ICV_CHEM24_1018	10ppb lcs ; TO1511	1018_15.D	10/18/24	23:10	
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						

(*) Outside 24 hr clock

FORM V AIR

CLPBFB

Data Path : H:\AIR2024\CHEM24\10OCT\18A\
Data File : 1018_01.D
Acq On : 18 Oct 2024 2:33 pm
Operator : Keith
Sample : 0/0 ; ITSD Air36
Misc :
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p

Method : H:\AIR2024\CHEM24\Methods\24_AIR_1018.M
Title : VOA Standards for 5 point calibration
Last Update : Thu Sep 12 10:11:03 2024

AutoFind: Scans 1071, 1072, 1073; Background Corrected with Scan 1065

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	21.0	56117	PASS
75	95	30	66	42.2	112856	PASS
95	95	100	100	100.0	267541	PASS
96	95	5	9	6.6	17546	PASS
173	174	0.00	2	0.8	2349	PASS
174	95	50	120	106.3	284480	PASS
175	174	4	9	7.4	21008	PASS
176	174	93	101	97.4	277184	PASS
177	176	5	9	6.5	17881	PASS

24_AIR_1018.M Mon Oct 21 09:51:42 2024

5B
AIR INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Phoenix Environmental Labs

Client: AMC-ENG

Lab Code: Phoenix Case No.: _____

SAS No.: _____

SDG No.: GCS16244

Lab File ID: 1126_02.D

BFB Injection Date: 11/26/24

Instrument ID: CHEM24

BFB Injection Time: 13:54

GC Column: RTX-1

Heated Purge: (Y/N) Y

AutoFind: Scans 1071, 1072, 1073; Background Corrected with Scan 1065

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	24.4
75	30.0 - 66.0% of mass 95	44.2
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.8
173	Less than 2.0% of mass 174	0.6 (0.6)1
174	50.0 - 120.0% of mass 95	105.0
175	4.0 - 9.0% of mass 174	7.3 (7.7)1
176	93.0 - 101.0% of mass 174	96.0 (101.0)1
177	5.0 - 9.0% of mass 176	6.6 (6.7)1

1-Value is % mass 95

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	CLIENT ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED	
01	CCAL 1	1ppb ccal; TO1511	1126_02.D	11/26/24	13:54	
02	CS16244 LCS	CS16244 LCS	1126_04.D	11/26/24	15:07	
03	CS16244 BLANK	CS16244 BLANK	1126_05.D	11/26/24	15:41	
04	IA-2	CS16244	1126_08.D	11/26/24	19:22	
05	IA-2 DUP	CS16244 DUP	1126_09.D	11/26/24	20:00	
06	IA-1	CS16245	1126_10.D	11/26/24	20:37	
07	IA-4	CS16248	1126_11.D	11/26/24	21:14	
08	DUPLICATE	CS16249	1126_12.D	11/26/24	21:52	
09	IA-3	CS16250	1126_13.D	11/26/24	22:29	
10	OA-1	CS16251	1126_14.D	11/26/24	23:07	
11	SS-2 5X	CS16246 5X	1126_16.D	11/27/24	00:22	
12	SS-1 5X	CS16247 5X	1126_17.D	11/27/24	00:59	
13	CCAL 1	1ppb ccal; TO1511	1126_21.D	11/27/24	09:45	
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						

(*) Outside 24 hr clock

FORM V AIR

CLPBFB

Data Path : C:\AIR2024\CHEM24\11NOV\26\
Data File : 1126_02.D
Acq On : 26 Nov 2024 1:54 pm
Operator : Keith
Sample : 1ppb ccal; T01511
Misc :
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p

Method : H:\AIR2024\CHEM24\Methods\24_AIR_1018.M
Title : VOA Standards for 5 point calibration
Last Update : Mon Oct 21 10:04:28 2024

AutoFind: Scans 1071, 1072, 1073; Background Corrected with Scan 1065

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	24.4	52893	PASS
75	95	30	66	44.2	95747	PASS
95	95	100	100	100.0	216448	PASS
96	95	5	9	6.8	14626	PASS
173	174	0.00	2	0.6	1286	PASS
174	95	50	120	105.3	227989	PASS
175	174	4	9	7.3	16694	PASS
176	174	93	101	96.0	218795	PASS
177	176	5	9	6.6	14516	PASS

24_AIR_1018.M Tue Nov 26 14:17:16 2024

8A
AIR INTERNAL STANDARD AREA AND RT SUMMARY
Full Scan

Lab Name: Phoenix Environmental Labs Client: AMC-ENG

Lab Code: Phoenix Case No.: _____ SAS No.: _____ SDG No.: GCS16244

Lab Method / File Id: 24_AIR_1018.M / Average Date Analyzed: 10/18/24

Instrument ID: CHEM24 Time Analyzed: 21:58

GC Column: _____ ID: 0.18 (mm) Heated Purge:(Y/N) Y

	IS1 (BCM) Area Avg #	RT Avg #	IS2 (DFB) Area Avg #	RT Avg #	IS3 (CBZ) Area Avg #	RT Avg #			LAB FILE ID
REFERENCE STD	220583	7.52	732342	8.68	336577	11.15			Average
UPPER LIMIT	309919	7.85	1028940	9.01	472891	11.48			Average
LOWER LIMIT	131247	7.19	435743	8.35	200263	10.82			Average
CLIENT ID									
01 ICAL 0.2	225702	7.52	728807	8.68	309862	11.15			1018_07.D
02 ICAL 0.5	228328	7.52	747681	8.68	319292	11.15			1018_08.D
03 ICAL 2.5	221654	7.52	730400	8.68	317890	11.15			1018_09.D
04 ICAL 5	212446	7.52	707833	8.68	313623	11.15			1018_10.D
05 ICAL 25	206330	7.52	691814	8.68	350930	11.15			1018_11.D
06 ICAL 40	204292	7.52	684246	8.68	385341	11.15			1018_12.D
07 ICAL 1	243686	7.52	812904	8.68	347919	11.15			1018_13.D
08 ICAL 10	222224	7.52	755049	8.68	347760	11.15			1018_14.D
09 ICV_CHEM24_1018	220230	7.52	734567	8.68	340161	11.15			1018_15.D
10									
11									
12									
13									
14									
15									
16									
17									
18									
19									
20									
21									
22									

IS1 (BCM) = Bromochloromethane
IS2 (DFB) = 1,4-Difluorobenzene
IS3 (CBZ) = Chlorobenzene-d5

AREA UPPER LIMIT = +140% of internal standard area
AREA LOWER LIMIT = - 60% of internal standard area
RT UPPER LIMIT = +0.33 minutes of internal standard RT
RT LOWER LIMIT = -0.33 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

FORM VIII VOA

8A
AIR INTERNAL STANDARD AREA AND RT SUMMARY
Sim Scan

Lab Name: Phoenix Environmental Labs Client: AMC-ENG
 Lab Code: Phoenix Case No.: _____ SAS No.: _____ SDG No.: GCS16244
 Lab Method / File Id: 24_AIR_1018.M / Average Date Analyzed: 10/18/24
 Instrument ID: CHEM24 Time Analyzed: 21:58
 GC Column: _____ ID: 0.18 (mm) Heated Purge:(Y/N) Y

	IS1 (BCM) Area Avg #	RT Avg #	IS2 (DFB) Area Avg #	RT Avg #	IS3 (CBZ) Area Avg #	RT Avg #			LAB FILE ID
REFERENCE STD	229260	7.52	754141	8.68	326896	11.15			Average
UPPER LIMIT	322110	7.85	1059568	9.01	459289	11.48			Average
LOWER LIMIT	136410	7.19	448714	8.35	194503	10.82			Average
CLIENT ID									
01 ICAL 0.01	234127	7.52	772326	8.68	336024	11.15			1018_02.D
02 ICAL 0.02	235284	7.52	773057	8.68	330472	11.15			1018_03.D
03 ICAL 0.035	237303	7.52	769195	8.68	331830	11.15			1018_04.D
04 ICAL 0.05	229584	7.52	748587	8.68	318839	11.15			1018_05.D
05 ICAL 0.1	230716	7.52	749444	8.68	322344	11.15			1018_06.D
06 ICAL 0.2	225450	7.52	728807	8.68	309862	11.15			1018_07.D
07 ICAL 0.5	228332	7.52	747681	8.68	319292	11.15			1018_08.D
08 ICAL 2.5	222485	7.52	730400	8.68	317890	11.15			1018_09.D
09 ICAL 5	214485	7.52	708103	8.68	313623	11.15			1018_10.D
10 ICAL 1	242430	7.52	812904	8.68	347919	11.15			1018_13.D
11 ICAL 10	221661	7.52	755049	8.68	347760	11.15			1018_14.D
12									
13									
14									
15									
16									
17									
18									
19									
20									
21									
22									

IS1 (BCM) = Bromochloromethane
 IS2 (DFB) = 1,4-Difluorobenzene
 IS3 (CBZ) = Chlorobenzene-d5

AREA UPPER LIMIT = +140% of internal standard area
 AREA LOWER LIMIT = - 60% of internal standard area
 RT UPPER LIMIT = +0.33 minutes of internal standard RT
 RT LOWER LIMIT = -0.33 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
 * Values outside of QC limits.

FORM VIII VOA

8A
AIR INTERNAL STANDARD AREA AND RT SUMMARY
Full Scan

Lab Name: Phoenix Environmental Labs Client: AMC-ENG

Lab Code: Phoenix Case No.: SAS No.: SDG No.: GCS16244

Lab Method / File Id: 24_AIR_1018.M / 1126_02.D Date Analyzed: 11/26/24

Instrument ID: CHEM24 Time Analyzed: 13:54

GC Column: RTX-1 ID: 0.18 (mm) Heated Purge:(Y/N) Y

	IS1 (BCM) AREA #	RT #	IS2 (DFB) AREA #	RT #	IS3 (CBZ) AREA #	RT #			LAB FILE ID
REFERENCE STD	203887	7.52	653513	8.68	286363	11.15			1126_02.D
UPPER LIMIT	286461	7.85	918186	9.01	402340	11.48			1126_02.D
LOWER LIMIT	121313	7.19	388840	8.35	170386	10.82			1126_02.D
CLIENT ID									
01 CCAL 1	203887	7.52	653513	8.68	286363	11.15			1126_02.D
02 CS16244 LCS	196966	7.52	663005	8.68	309587	11.15			1126_04.D
03 CS16244 BLANK	212108	7.52	679956	8.68	292460	11.15			1126_05.D
04 IA-2	194901	7.52	622982	8.68	269126	11.15			1126_08.D
05 IA-2 DUP	196795	7.52	627803	8.68	272034	11.15			1126_09.D
06 IA-1	194630	7.52	628030	8.68	263176	11.15			1126_10.D
07 IA-4	201432	7.52	640447	8.68	275451	11.15			1126_11.D
08 DUPLICATE	191718	7.52	619104	8.68	262826	11.15			1126_12.D
09 IA-3	194662	7.52	613287	8.68	260714	11.15			1126_13.D
10 OA-1	194429	7.52	608585	8.68	262518	11.15			1126_14.D
11 SS-2 5X	187117	7.52	599034	8.68	259792	11.15			1126_16.D
12 SS-1 5X	183700	7.52	607439	8.68	253765	11.15			1126_17.D
13 CCAL 1	195733	7.52	628386	8.68	273314	11.15			1126_21.D
14									
15									
16									
17									
18									
19									
20									
21									
22									

IS1 (BCM) = Bromochloromethane
IS2 (DFB) = 1,4-Difluorobenzene
IS3 (CBZ) = Chlorobenzene-d5

AREA UPPER LIMIT = +140% of internal standard area
AREA LOWER LIMIT = - 60% of internal standard area
RT UPPER LIMIT = +0.33 minutes of internal standard RT
RT LOWER LIMIT = -0.33 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

FORM VIII VOA

8A
AIR INTERNAL STANDARD AREA AND RT SUMMARY
Sim Scan

Lab Name: Phoenix Environmental Labs Client: AMC-ENG

Lab Code: Phoenix Case No.: SAS No.: SDG No.: GCS16244

Lab Method / File Id: 24_AIR_1018.M / 1126_02.D Date Analyzed: 11/26/24

Instrument ID: CHEM24 Time Analyzed: 13:54

GC Column: RTX-1 ID: 0.18 (mm) Heated Purge:(Y/N) Y

	IS1 (BCM) AREA #	RT #	IS2 (DFB) AREA #	RT #	IS3 (CBZ) AREA #	RT #			LAB FILE ID
REFERENCE STD	209431	7.52	653513	8.68	286363	11.15			1126_02.D
UPPER LIMIT	294251	7.85	918186	9.01	402340	11.48			1126_02.D
LOWER LIMIT	124611	7.19	388840	8.35	170386	10.82			1126_02.D
CLIENT ID									
01 CCAL 1	209431	7.52	653513	8.68	286363	11.15			1126_02.D
02 CS16244 LCS	201006	7.52	663005	8.68	309723	11.15			1126_04.D
03 CS16244 BLANK	216164	7.52	679956	8.68	292600	11.15			1126_05.D
04 IA-2	200516	7.53	622982	8.68	269126	11.15			1126_08.D
05 IA-2 DUP	200537	7.52	627803	8.68	272034	11.15			1126_09.D
06 IA-1	200787	7.52	628030	8.68	263176	11.15			1126_10.D
07 IA-4	205403	7.52	640447	8.68	275451	11.15			1126_11.D
08 DUPLICATE	197614	7.52	619104	8.68	262826	11.15			1126_12.D
09 IA-3	197078	7.52	613287	8.68	260714	11.15			1126_13.D
10 OA-1	198773	7.52	608585	8.68	262518	11.15			1126_14.D
11 SS-2 5X	192847	7.52	599034	8.68	259792	11.15			1126_16.D
12 SS-1 5X	189838	7.52	607439	8.68	253765	11.15			1126_17.D
13 CCAL 1	203391	7.52	628386	8.68	273314	11.15			1126_21.D
14									
15									
16									
17									
18									
19									
20									
21									
22									

IS1 (BCM) = Bromochloromethane
IS2 (DFB) = 1,4-Difluorobenzene
IS3 (CBZ) = Chlorobenzene-d5

AREA UPPER LIMIT = +140% of internal standard area
AREA LOWER LIMIT = - 60% of internal standard area
RT UPPER LIMIT = +0.33 minutes of internal standard RT
RT LOWER LIMIT = -0.33 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

FORM VIII VOA

1
AIR ANALYSIS DATA SHEET

CLIENT ID

Client:	<u>AMC-ENG</u>	Lab:	<u>Phoenix Env. Labs</u>
SDG No.:	<u>GCS16244</u>	Lab Sample ID:	<u>CS16244</u>
Canister:	<u>19806</u>	Lab File ID:	<u>1126_08.D</u>
Instrument:	<u>CHEM24</u>	Column:	<u>RTX-1</u>
Purge Volume	<u>200</u> (cc)	Date Received:	<u>11/26/24</u>
Matrix:	<u>AIR</u>	Date Analyzed:	<u>11/26/24</u>
		Dilution Factor:	<u>1</u>

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
115-07-1	Propylene	0.581	U	0.581	0.581	r
75-71-8	Dichlorodifluoromethane	0.449		0.202	0.202	r
74-87-3	Chloromethane	0.626		0.485	0.485	r
106-99-0	1,3-Butadiene	0.452	U	0.452	0.452	r
75-00-3	Chloroethane	0.379	U	0.379	0.379	r
64-17-5	Ethanol	17.1	S	0.531	0.531	r
67-64-1	Acetone	12.7	S	0.421	0.421	r
75-69-4	Trichlorofluoromethane	0.208		0.178	0.178	r
67-63-0	Isopropylalcohol	0.777	S	0.407	0.407	r
107-13-1	Acrylonitrile	0.461	U	0.461	0.461	r
75-09-2	Methylene Chloride	0.863	U	0.863	0.863	r
75-15-0	Carbon Disulfide	0.321	U	0.321	0.321	r
1634-04-4	Methyl tert-butyl ether(MTBE)	0.278	U	0.278	0.278	r
78-93-3	Methyl Ethyl Ketone	0.339	U	0.339	0.339	r
110-54-3	Hexane	0.413	S	0.284	0.284	r
141-78-6	Ethyl acetate	0.278	U	0.278	0.278	r
109-99-9	Tetrahydrofuran	0.339	U	0.339	0.339	r
71-43-2	Benzene	0.617		0.313	0.313	r
110-82-7	Cyclohexane	0.291	U	0.291	0.291	r
540-84-1	2,2,4-trimethylpentane	0.339		0.215	0.215	r
142-82-5	Heptane	0.244	U	0.244	0.244	r
108-10-1	4-Methyl-2-pentanone(MIBK)	0.244	U	0.244	0.244	r
10061-02-6	trans-1,3-Dichloropropene	0.221	U	0.221	0.221	r
108-88-3	Toluene	1.03		0.266	0.266	r
591-78-6	2-Hexanone(MBK)	0.244	U	0.244	0.244	r
630-20-6	1,1,1,2-Tetrachloroethane	0.146	U	0.146	0.146	r
108-90-7	Chlorobenzene	0.217	U	0.217	0.217	r
100-41-4	Ethylbenzene	0.259		0.230	0.230	r
179601-23-1	m,p-Xylene	0.942		0.230	0.230	r
100-42-5	Styrene	0.235	U	0.235	0.235	r
95-47-6	o-Xylene	0.310		0.230	0.230	r
98-82-8	Isopropylbenzene	0.204	U	0.204	0.204	r
622-96-8	4-Ethyltoluene	0.204	U	0.204	0.204	r
108-67-8	1,3,5-Trimethylbenzene	0.204	U	0.204	0.204	r
95-63-6	1,2,4-Trimethylbenzene	0.204	U	0.204	0.204	r
91-20-3	Naphthalene	0.200	U	0.200	0.200	r

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

1
AIR ANALYSIS DATA SHEET

CLIENT ID

Client:	<u>AMC-ENG</u>	Lab:	<u>Phoenix Env. Labs</u>
SDG No.:	<u>GCS16244</u>	Lab Sample ID:	<u>CS16244</u>
Canister:	<u>19806</u>	Lab File ID:	<u>1126_08.D</u>
Instrument:	<u>CHEM24</u>	Column:	<u>RTX-1</u>
Purge Volume	<u>200</u> (cc)	Date Received:	<u>11/26/24</u>
Matrix:	<u>AIR</u>	Date Analyzed:	<u>11/26/24</u>
		Dilution Factor:	<u>1</u>

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
76-14-2	1,2-Dichlorotetrafluoroethane(sim)	0.143	U	0.143	0.143	r
75-01-4	Vinyl Chloride(sim)	0.078	U	0.078	0.078	r
74-83-9	Bromomethane(sim)	0.258	U	0.258	0.258	r
107-06-2	1,2-Dichloroethane(sim)	0.247	U	0.247	0.247	r
71-55-6	1,1,1-Trichloroethane(sim)	0.183	U	0.183	0.183	r
56-23-5	Carbon Tetrachloride(sim)	0.075		0.032	0.032	r
75-35-4	1,1-Dichloroethene(sim)	0.051	U	0.051	0.051	r
76-13-1	Trichlorotrifluoroethane(sim)	0.131	U	0.131	0.131	r
156-60-5	Trans-1,2-Dichloroethene(sim)	0.252	U	0.252	0.252	r
75-34-3	1,1-Dichloroethane(sim)	0.247	U	0.247	0.247	r
156-59-2	Cis-1,2-Dichloroethene(sim)	0.051	U	0.051	0.051	r
67-66-3	Chloroform(sim)	0.205	U	0.205	0.205	r
78-87-5	1,2-dichloropropane(sim)	0.217	U	0.217	0.217	r
75-27-4	Bromodichloromethane(sim)	0.149	U	0.149	0.149	r
79-01-6	Trichloroethene(sim)	0.037	U	0.037	0.037	r
123-91-1	1,4-Dioxane(sim)	0.278	U	0.278	0.278	r
10061-01-5	cis-1,3-Dichloropropene(sim)	0.221	U	0.221	0.221	r
79-00-5	1,1,2-Trichloroethane(sim)	0.183	U	0.183	0.183	r
124-48-1	Dibromochloromethane(sim)	0.118	U	0.118	0.118	r
106-93-4	1,2-Dibromoethane(EDB)(sim)	0.130	U	0.130	0.130	r
127-18-4	Tetrachloroethene(sim)	0.037	U	0.037	0.037	r
75-25-2	Bromoform(sim)	0.097	U	0.097	0.097	r
79-34-5	1,1,2,2-Tetrachloroethane(sim)	0.146	U	0.146	0.146	r
100-44-7	Benzyl chloride(sim)	0.193	U	0.193	0.193	r
541-73-1	1,3-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
106-46-7	1,4-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
135-98-8	sec-Butylbenzene(sim)	0.182	U	0.182	0.182	r
99-87-6	4-Isopropyltoluene(sim)	0.182	U	0.182	0.182	r
95-50-1	1,2-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
104-51-8	n-Butylbenzene(sim)	0.182	U	0.182	0.182	r
120-82-1	1,2,4-Trichlorobenzene(sim)	0.135	U	0.135	0.135	r
87-68-3	Hexachlorobutadiene(sim)	0.094	U	0.094	0.094	r

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

Data Path : H:\AIR2024\CHEM24\11NOV\26\
 Data File : 1126_08.D
 Acq On : 26 Nov 2024 7:22 pm
 Operator : Keith
 Client ID : IA-2
 Lab ID : CS16244
 ALS Vial : 9 Sample Multiplier: 1

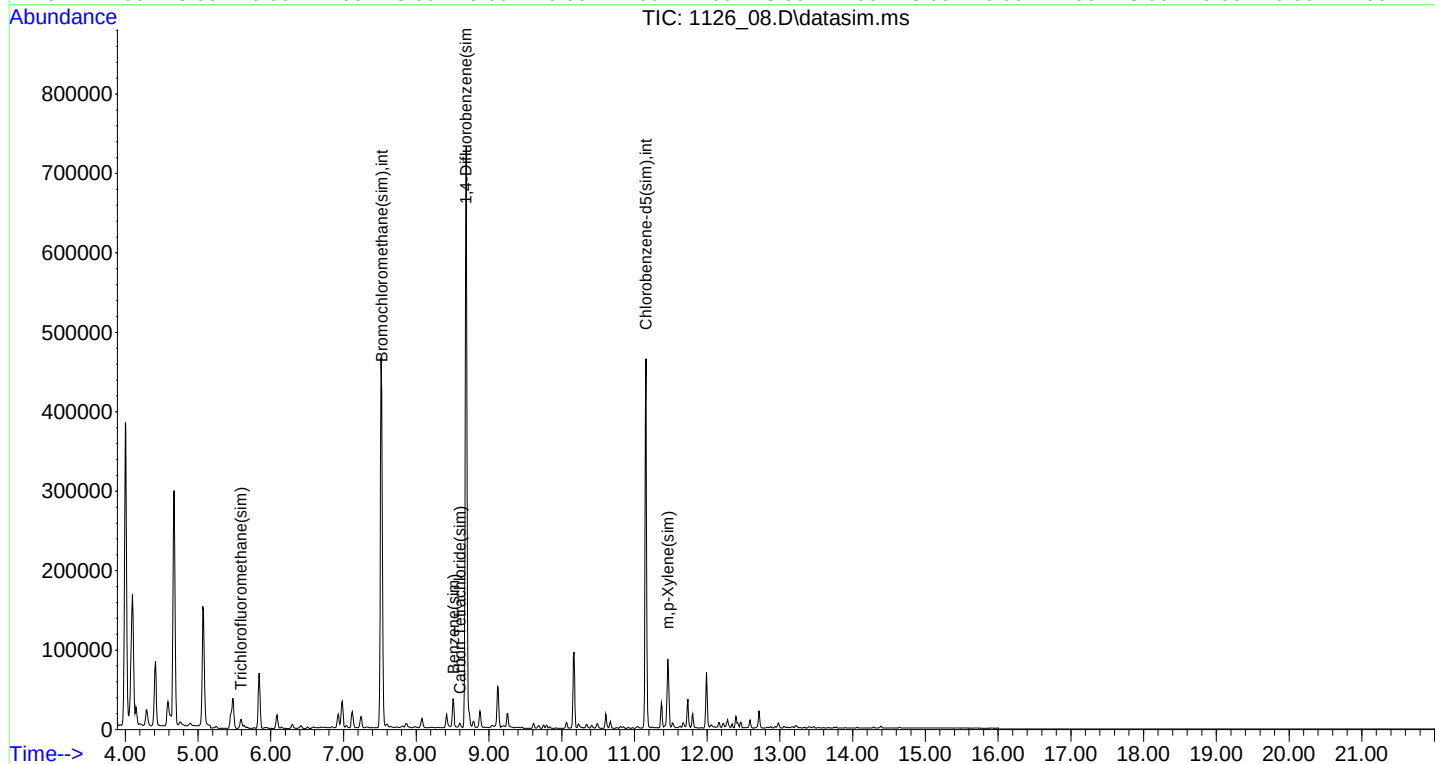
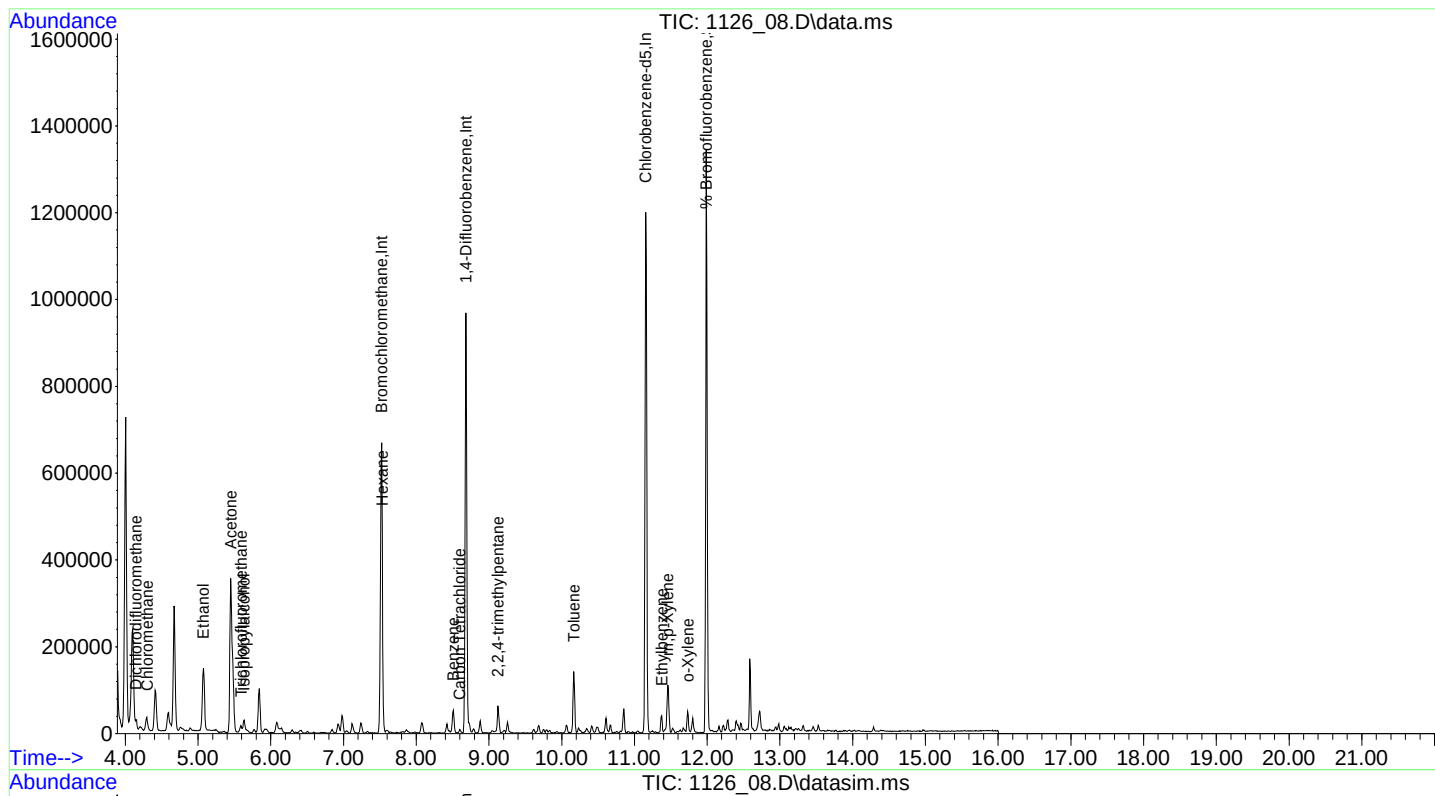
Quant Time: Nov 27 08:23:47 2024
 Quant Method : H:\AIR2024\CHEM24\Methods\24_AIR_1018.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Mon Oct 21 10:04:28 2024
 Response via : Initial Calibration

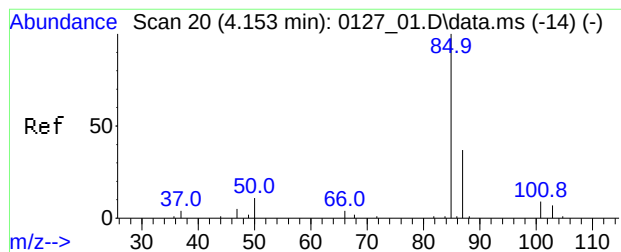
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	7.523	130	194901	10.000	ng	0.00
37) 1,4-Difluorobenzene	8.683	114	622982	10.000	ng	0.00
54) Chlorobenzene-d5	11.155	82	269126	10.000	ng	0.00
81) Bromochloromethane(sim)	7.526	130	200516	10.000	ng	# 0.00
96) 1,4-Difluorobenzene(sim)	8.683	114	622982	10.000	ng	0.00
106) Chlorobenzene-d5(sim)	11.155	82	269126	10.000	ng	0.00
System Monitoring Compounds						
63) % Bromofluorobenzene	11.989	95	335905	9.645	ppbv	0.00
Spiked Amount	10.000	Range 70 - 130	Recovery	=	96.40%	
Target Compounds						
					Qvalue	
3) Dichlorodifluoromethane	4.145	85	22635	0.449	ppbv#	95
4) Chloromethane	4.302	50	15552	0.626	ppbv	97
11) Ethanol	5.074	45	194129	17.142	ppbv#	92
12) Acetone	5.449	43	487663	12.664	ppbv#	88
13) Trichlorofluoromethane	5.590	101	11549	0.208	ppbv	95
14) Isopropylalcohol	5.633	45	37184	0.777	ppbv#	93
28) Hexane	7.531	57	14672	0.413	ppbv#	79
34) Benzene	8.510	78	33823	0.617	ppbv#	94
35) Carbon Tetrachloride	8.597	117	3975	0.079	ppbv	98
41) 2,2,4-trimethylpentane	9.125	57	37912	0.339	ppbv#	80
49) Toluene	10.166	91	70076	1.028	ppbv	98
57) Ethylbenzene	11.374	91	21248	0.259	ppbv	99
58) m,p-Xylene	11.458	91	58000	0.942	ppbv	99
62) o-Xylene	11.731	91	20340	0.310	ppbv	97
85] Trichlorofluoromethane...	5.587	101	12258	0.208	ppbv#	99
88] Benzene(sim)	8.510	78	33823	0.556	ppbv#	94
89] Carbon Tetrachloride(sim)	8.600	117	3877	0.075	ppbv	98
108] m,p-Xylene(sim)	11.458	91	58000	0.774	ppbv	99

(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Data Path : H:\AIR2024\CHEM24\11NOV\26\
Data File : 1126_08.D
Acq On : 26 Nov 2024 7:22 pm
Operator : Keith
Client ID : IA-2
Lab ID : CS16244
ALS Vial : 9 Sample Multiplier: 1

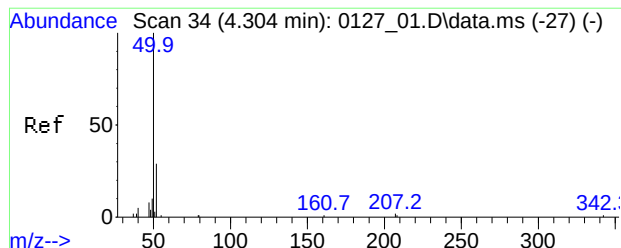
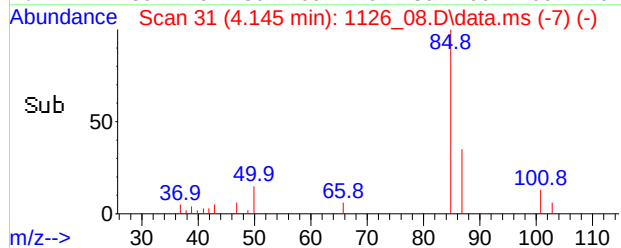
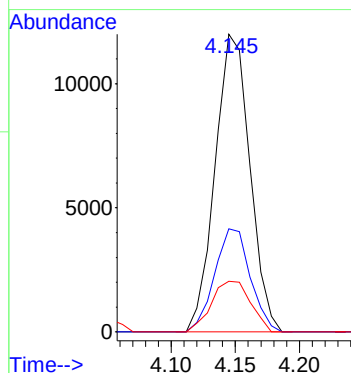
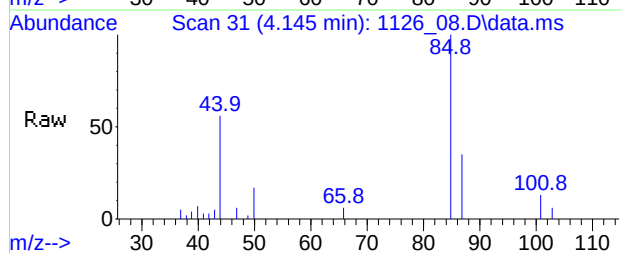
Quant Time: Nov 27 08:23:47 2024
Quant Method : H:\AIR2024\CHEM24\Methods\24_AIR_1018.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Mon Oct 21 10:04:28 2024
Response via : Initial Calibration





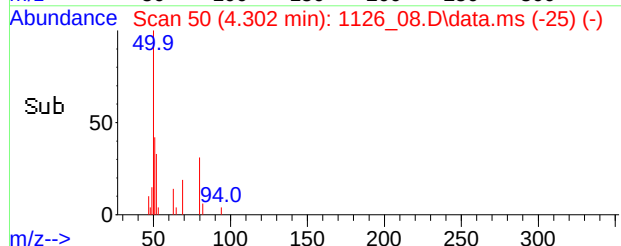
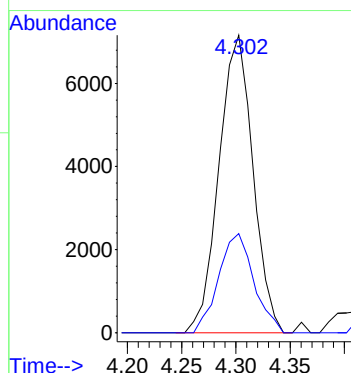
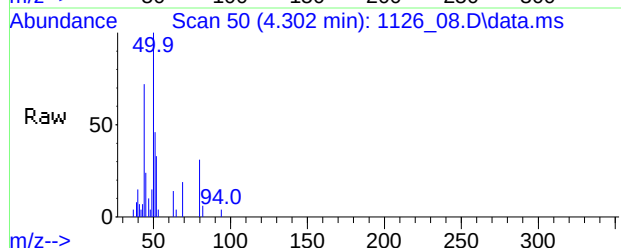
#3
Dichlorodifluoromethane
Conc: 8\$ 0.449 ppbv
RT: 4.145 min Scan# 31
Delta R.T. -0.000 min
Lab File: 1126_08.D
Acq: 26 Nov 2024 7:22 pm

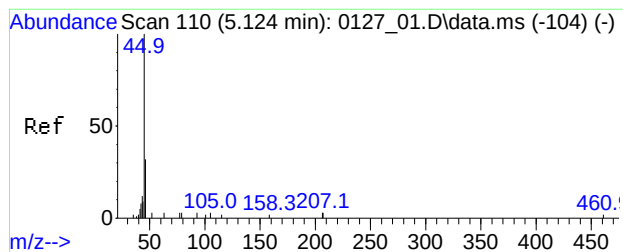
Tgt Ion: 85 Resp: 22635
Ion Ratio Lower Upper
85 100
87 35.5 26.9 40.3
50 19.2 12.0 18.0#



#4
Chloromethane
Conc: 8\$ 0.626 ppbv
RT: 4.302 min Scan# 50
Delta R.T. 0.008 min
Lab File: 1126_08.D
Acq: 26 Nov 2024 7:22 pm

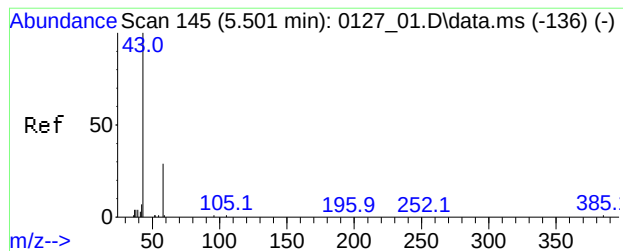
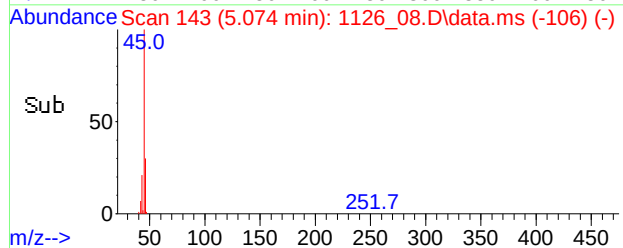
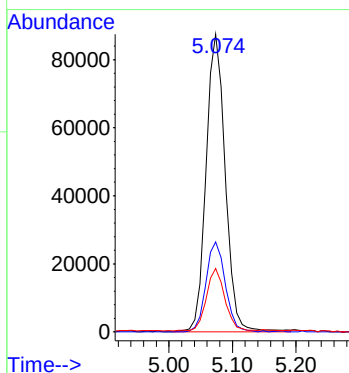
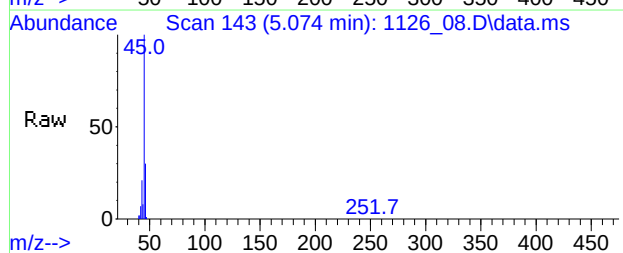
Tgt Ion: 50 Resp: 15552
Ion Ratio Lower Upper
50 100
52 34.5 12.8 52.8





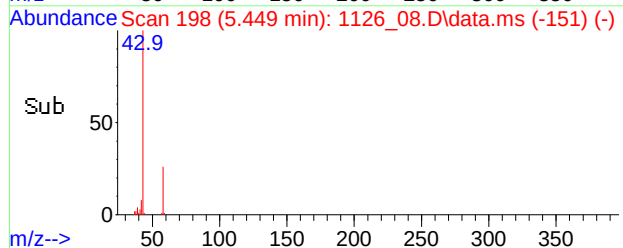
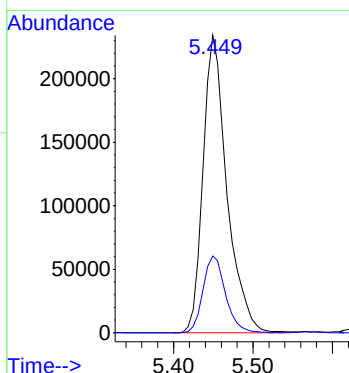
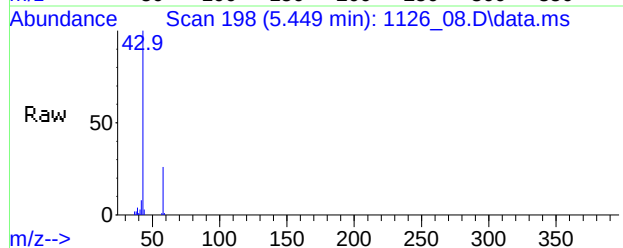
#11
Ethanol
Conc: 8\$ 17.142 ppbv
RT: 5.074 min Scan# 143
Delta R.T. 0.008 min
Lab File: 1126_08.D
Acq: 26 Nov 2024 7:22 pm

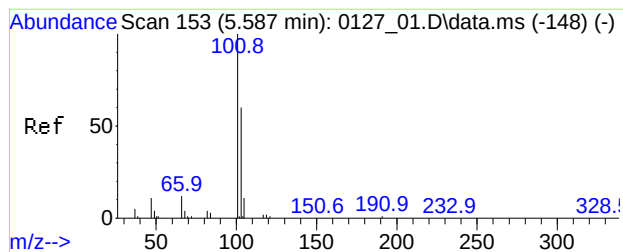
Tgt Ion: 45 Resp: 194129
Ion Ratio Lower Upper
45 100
46 28.7 25.0 37.6
43 19.0 20.0 30.0#



#12
Acetone
Conc: 8\$ 12.664 ppbv
RT: 5.449 min Scan# 198
Delta R.T. 0.006 min
Lab File: 1126_08.D
Acq: 26 Nov 2024 7:22 pm

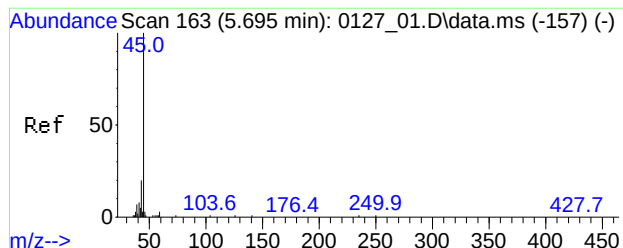
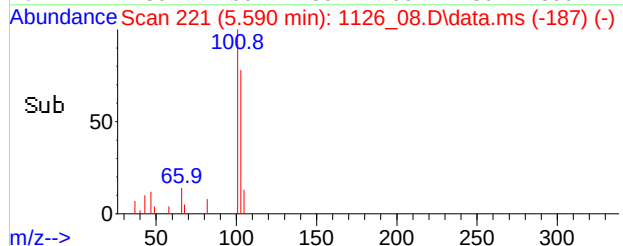
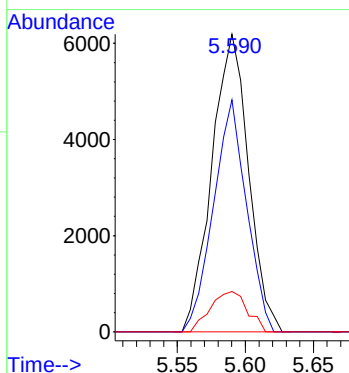
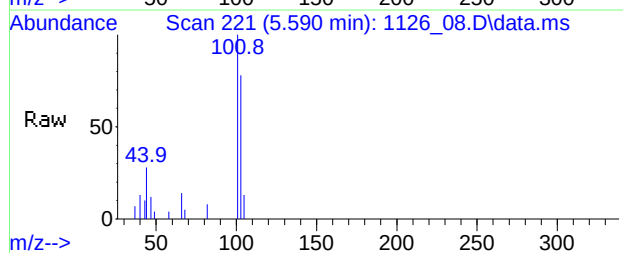
Tgt Ion: 43 Resp: 487663
Ion Ratio Lower Upper
43 100
58 24.3 24.6 37.0#





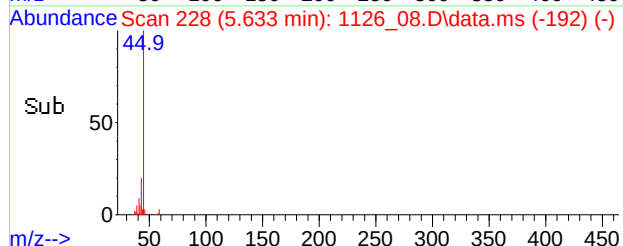
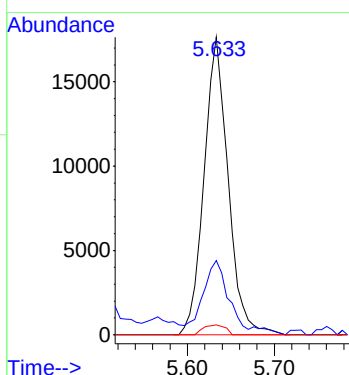
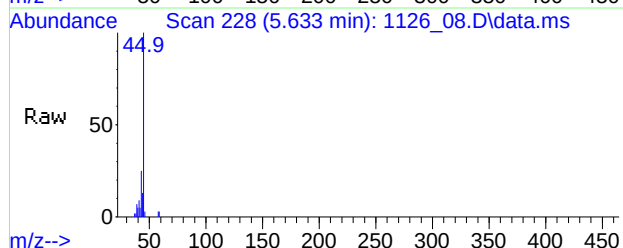
#13
Trichlorofluoromethane
Conc: 8\$ 0.208 ppbv
RT: 5.590 min Scan# 221
Delta R.T. 0.006 min
Lab File: 1126_08.D
Acq: 26 Nov 2024 7:22 pm

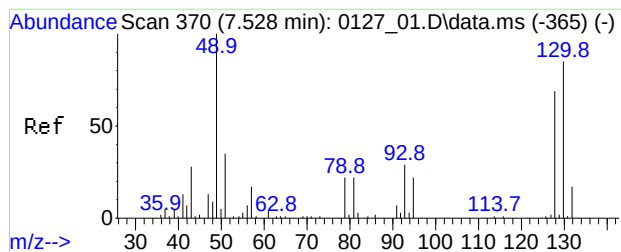
Tgt Ion:	101	Resp:	11549
Ion	Ratio	Lower	Upper
101	100		
103	70.3	53.4	80.2
66	13.6	9.3	13.9



#14
Isopropylalcohol
Conc: 8\$ 0.777 ppbv
RT: 5.633 min Scan# 228
Delta R.T. 0.018 min
Lab File: 1126_08.D
Acq: 26 Nov 2024 7:22 pm

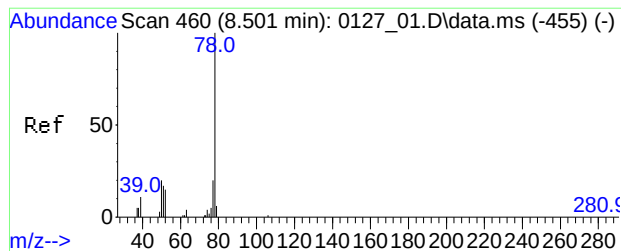
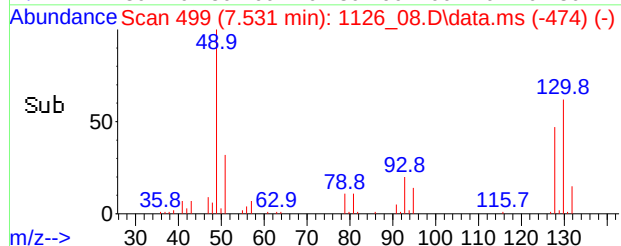
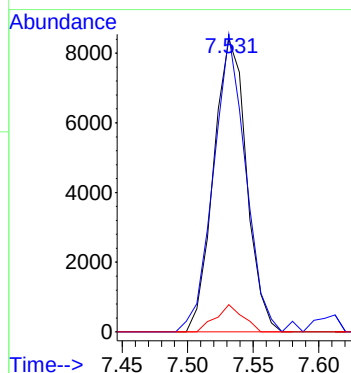
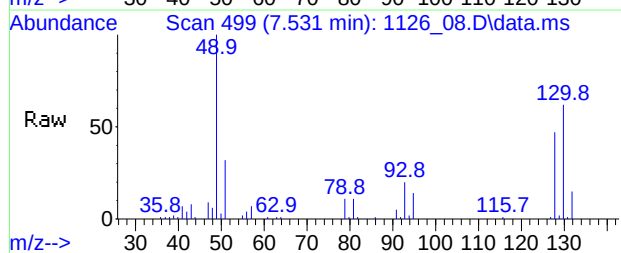
Tgt Ion:	45	Resp:	37184
Ion	Ratio	Lower	Upper
45	100		
43	20.2	13.3	19.9#
59	2.8	2.6	4.0





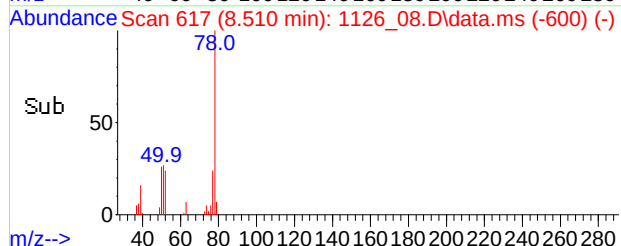
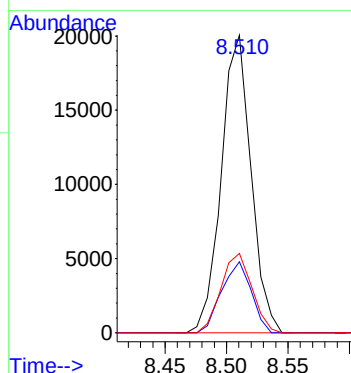
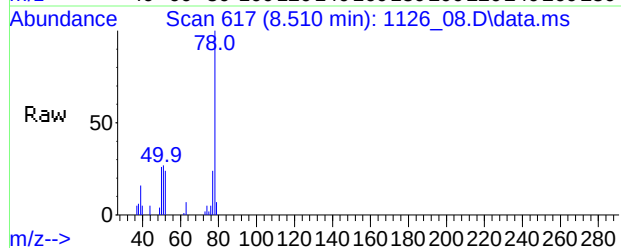
#28
Hexane
Conc: 8\$ 0.413 ppbv
RT: 7.531 min Scan# 499
Delta R.T. -0.000 min
Lab File: 1126_08.D
Acq: 26 Nov 2024 7:22 pm

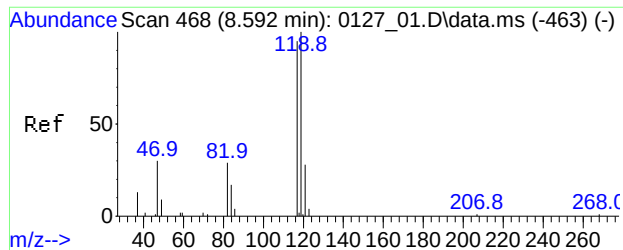
Tgt Ion: 57 Resp: 14672
Ion Ratio Lower Upper
57 100
41 99.4 63.4 95.2#
86 7.6 5.8 8.6



#34
Benzene
Conc: 8\$ 0.617 ppbv
RT: 8.510 min Scan# 617
Delta R.T. 0.009 min
Lab File: 1126_08.D
Acq: 26 Nov 2024 7:22 pm

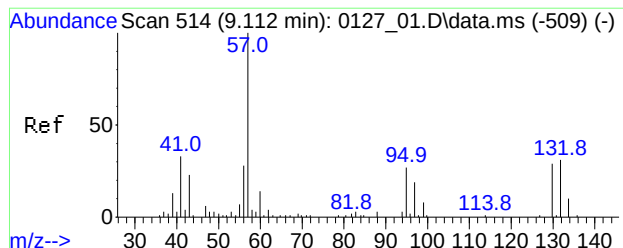
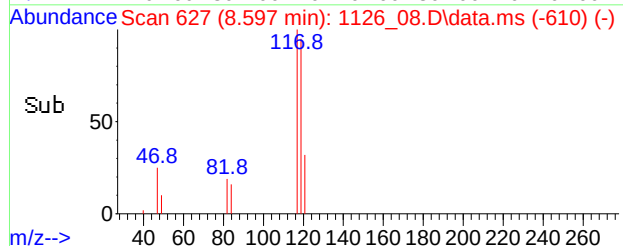
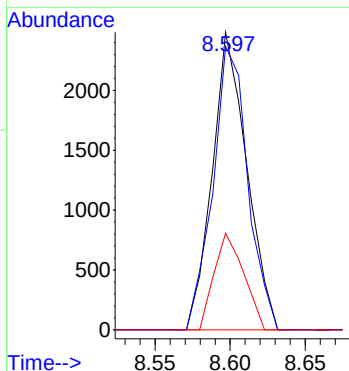
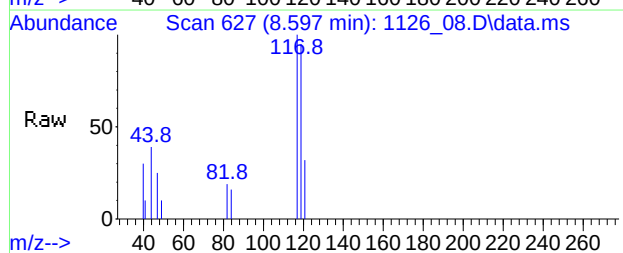
Tgt Ion: 78 Resp: 33823
Ion Ratio Lower Upper
78 100
77 23.7 18.8 28.2
51 27.8 18.1 27.1#





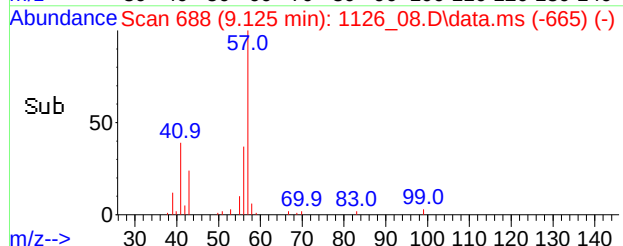
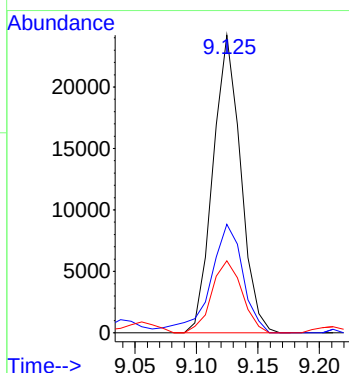
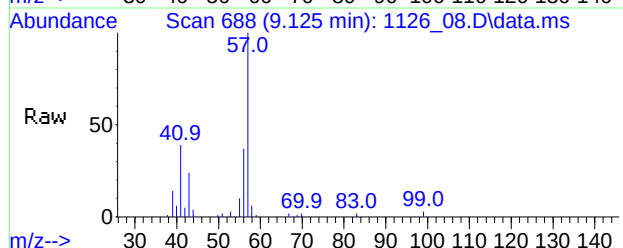
#35
Carbon Tetrachloride
Conc: 8\$ Below Cal
RT: 8.597 min Scan# 627
Delta R.T. -0.000 min
Lab File: 1126_08.D
Acq: 26 Nov 2024 7:22 pm

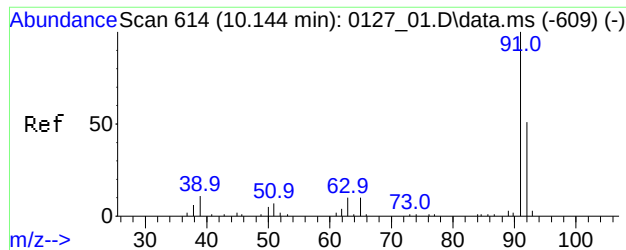
Tgt Ion: 117 Resp: 3975
Ion Ratio Lower Upper
117 100
119 96.3 76.5 116.5
121 27.8 11.2 51.2



#41
2,2,4-trimethylpentane
Conc: 8\$ 0.339 ppbv
RT: 9.125 min Scan# 688
Delta R.T. -0.000 min
Lab File: 1126_08.D
Acq: 26 Nov 2024 7:22 pm

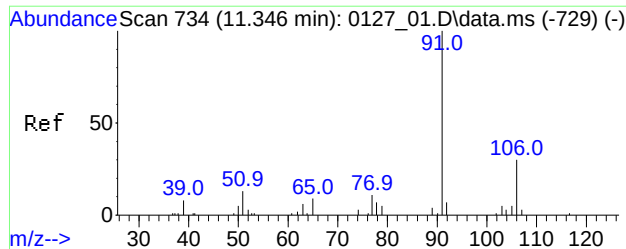
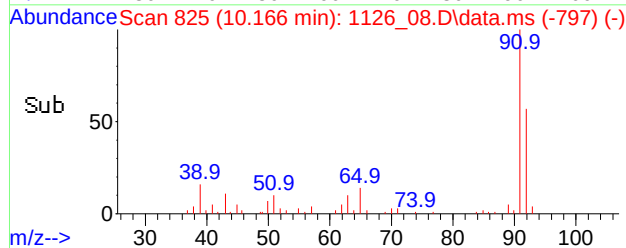
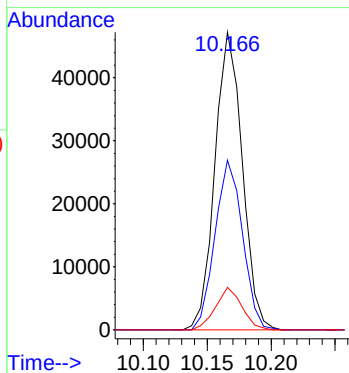
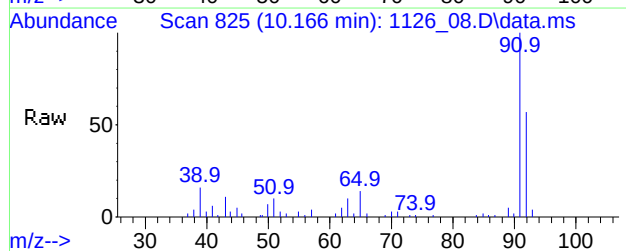
Tgt Ion: 57 Resp: 37912
Ion Ratio Lower Upper
57 100
56 43.0 22.9 34.3#
43 26.5 17.0 25.4#





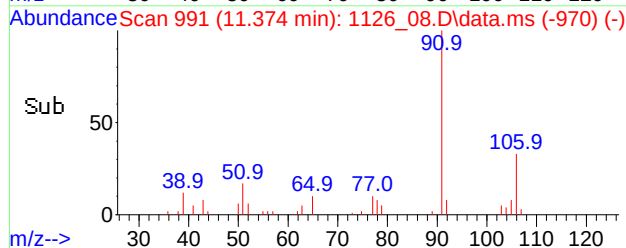
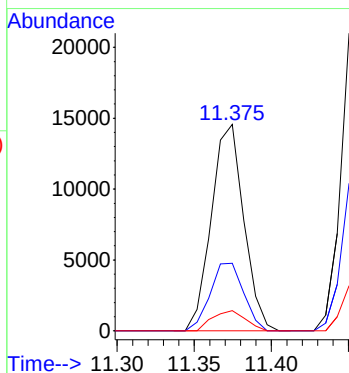
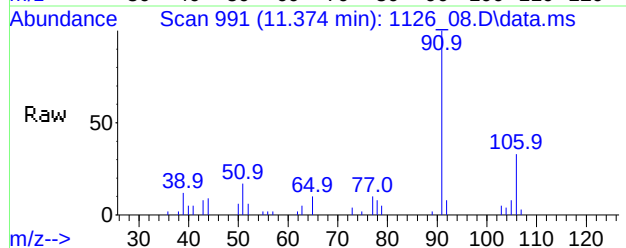
#49
Toluene
Conc: 8\$ 1.028 ppbv
RT: 10.166 min Scan# 825
Delta R.T. -0.000 min
Lab File: 1126_08.D
Acq: 26 Nov 2024 7:22 pm

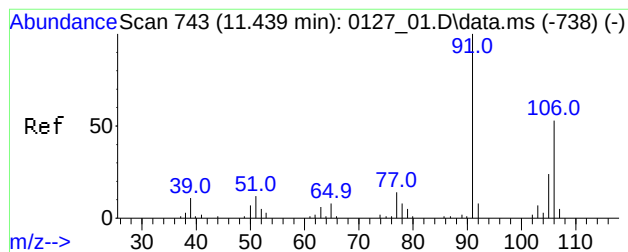
Tgt Ion: 91 Resp: 70076
Ion Ratio Lower Upper
91 100
92 57.3 45.0 67.4
65 13.7 9.4 14.2



#57
Ethylbenzene
Conc: 8\$ 0.259 ppbv
RT: 11.374 min Scan# 991
Delta R.T. 0.008 min
Lab File: 1126_08.D
Acq: 26 Nov 2024 7:22 pm

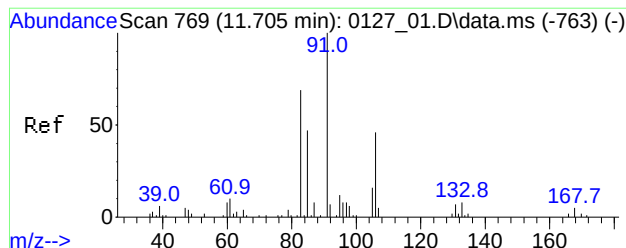
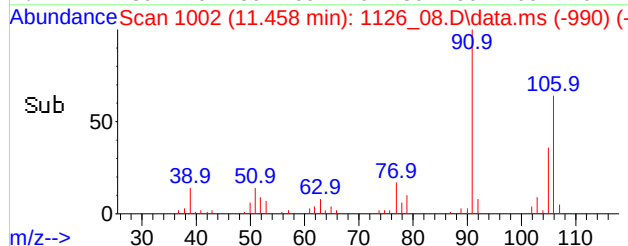
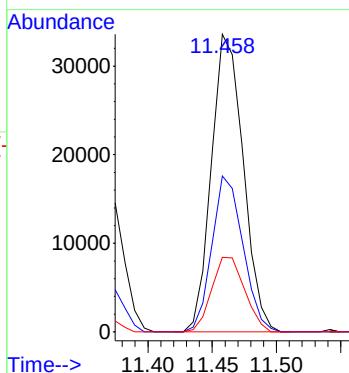
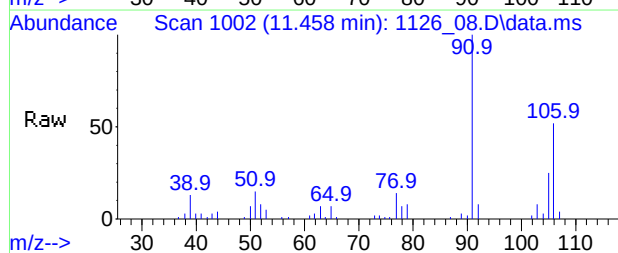
Tgt Ion: 91 Resp: 21248
Ion Ratio Lower Upper
91 100
106 33.8 13.5 53.5
77 10.0 0.0 28.3





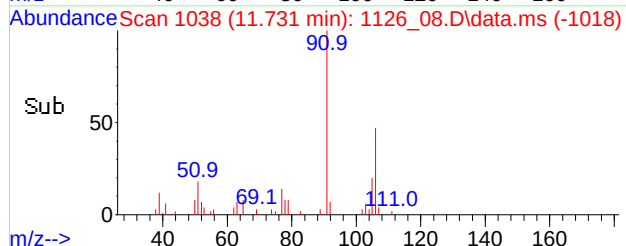
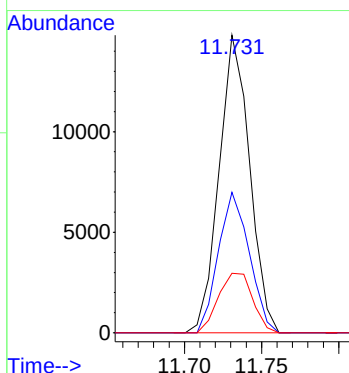
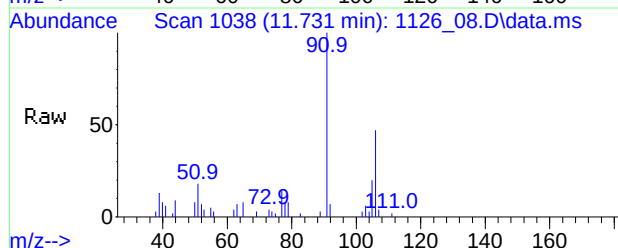
#58
m,p-Xylene
Conc: 8\$ 0.942 ppbv
RT: 11.458 min Scan# 1002
Delta R.T. -0.008 min
Lab File: 1126_08.D
Acq: 26 Nov 2024 7:22 pm

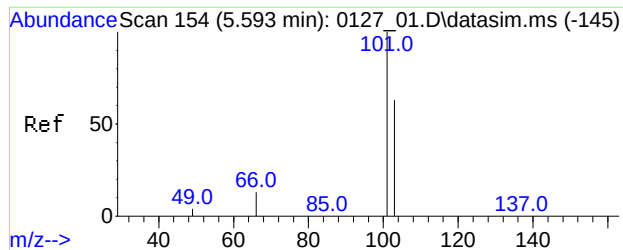
Tgt Ion: 91 Resp: 58000
Ion Ratio Lower Upper
91 100
106 51.1 41.1 61.7
105 26.0 19.5 29.3



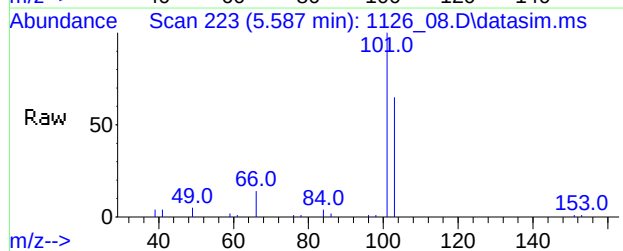
#62
o-Xylene
Conc: 8\$ 0.310 ppbv
RT: 11.731 min Scan# 1038
Delta R.T. -0.000 min
Lab File: 1126_08.D
Acq: 26 Nov 2024 7:22 pm

Tgt Ion: 91 Resp: 20340
Ion Ratio Lower Upper
91 100
106 47.8 39.6 59.4
105 22.5 16.7 25.1

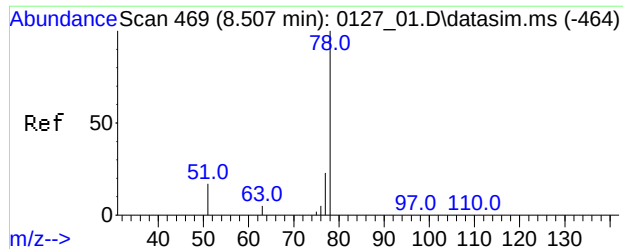
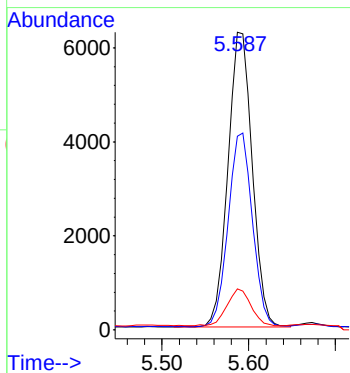
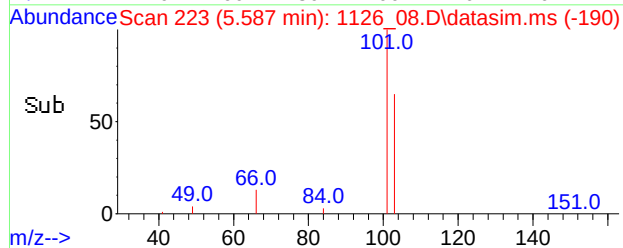




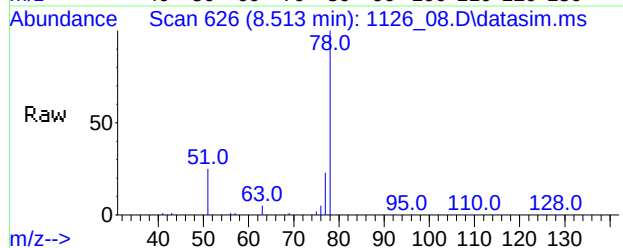
#85
Trichlorofluoromethane(sim)
Conc: 8\$ 0.208 ppbv
RT: 5.587 min Scan# 223
Delta R.T. -0.000 min
Lab File: 1126_08.D
Acq: 26 Nov 2024 7:22 pm



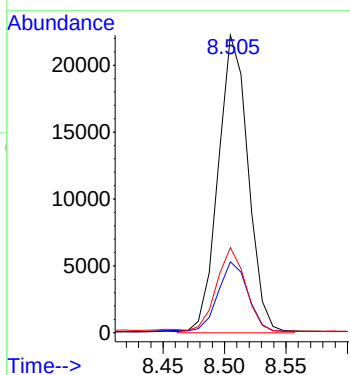
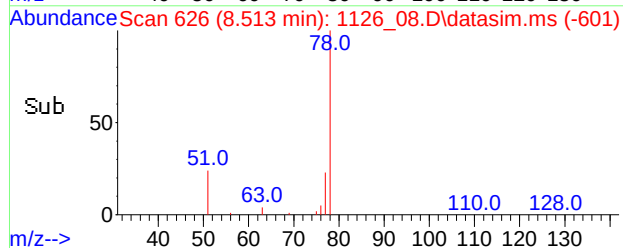
Tgt Ion: 101 Resp: 12258
Ion Ratio Lower Upper
101 100
103 65.7 52.4 78.6
66 13.0 11.4 11.4#

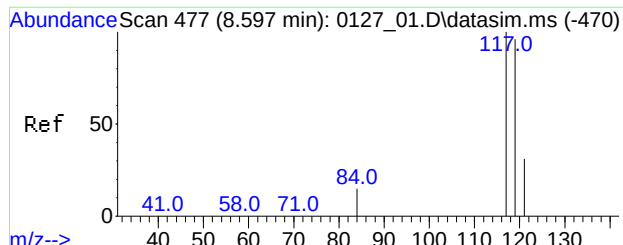


#88
Benzene(sim)
Conc: 8\$ 0.556 ppbv
RT: 8.510 min Scan# 626
Delta R.T. 0.009 min
Lab File: 1126_08.D
Acq: 26 Nov 2024 7:22 pm



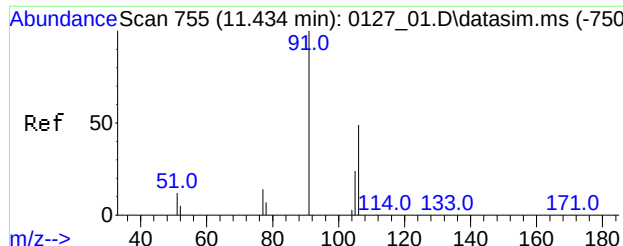
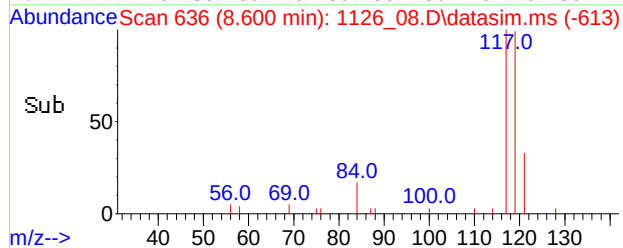
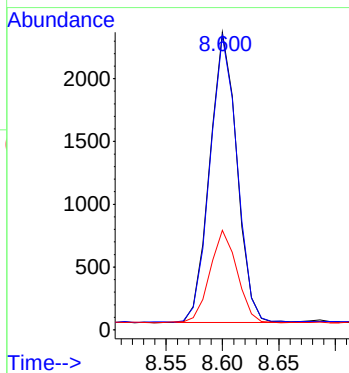
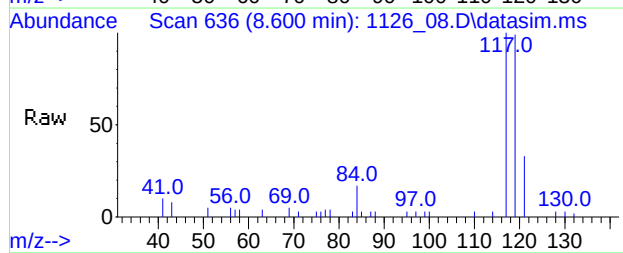
Tgt Ion: 78 Resp: 33823
Ion Ratio Lower Upper
78 100
77 23.7 18.8 28.2
51 27.8 18.1 27.1#





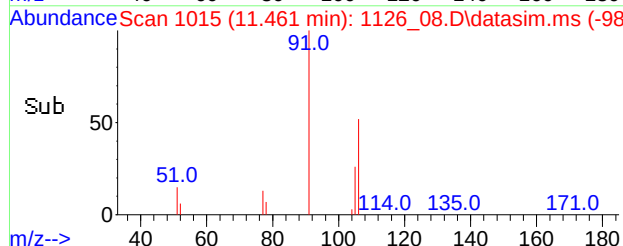
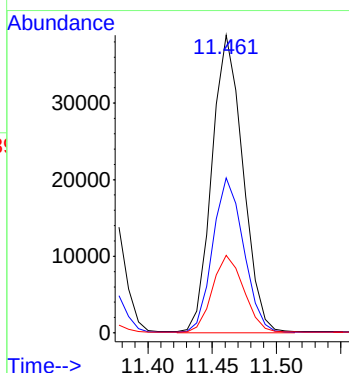
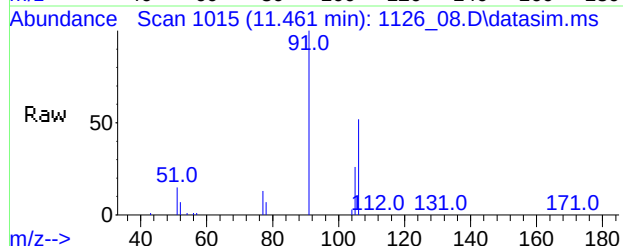
#89
Carbon Tetrachloride(sim)
Conc: 8\$ 0.075 ppbv
RT: 8.600 min Scan# 636
Delta R.T. -0.000 min
Lab File: 1126_08.D
Acq: 26 Nov 2024 7:22 pm

Tgt Ion: 117 Resp: 3877
Ion Ratio Lower Upper
117 100
119 98.5 77.4 116.2
121 32.1 24.9 37.3



#108
m,p-Xylene(sim)
Conc: 8\$ 0.774 ppbv
RT: 11.458 min Scan# 1015
Delta R.T. -0.008 min
Lab File: 1126_08.D
Acq: 26 Nov 2024 7:22 pm

Tgt Ion: 91 Resp: 58000
Ion Ratio Lower Upper
91 100
106 51.1 46.3 56.5
105 26.0 19.5 29.3



1
AIR ANALYSIS DATA SHEET

CLIENT ID

Client: AMC-ENG Lab: Phoenix Env. Labs

SDG No.: GCS16244 Lab Sample ID: CS16245

Canister: 23344 Lab File ID: 1126_10.D

Instrument: CHEM24 Column: RTX-1 Date Received: 11/26/24

Purge Volume 200 (cc) Date Analyzed: 11/26/24

Matrix: AIR Dilution Factor: 1

IA-1

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
115-07-1	Propylene	0.581	U	0.581	0.581	r
75-71-8	Dichlorodifluoromethane	0.458		0.202	0.202	r
74-87-3	Chloromethane	0.601		0.485	0.485	r
106-99-0	1,3-Butadiene	0.452	U	0.452	0.452	r
75-00-3	Chloroethane	0.379	U	0.379	0.379	r
64-17-5	Ethanol	38.1	S	0.531	0.531	r
67-64-1	Acetone	13.1	S	0.421	0.421	r
75-69-4	Trichlorofluoromethane	0.208		0.178	0.178	r
67-63-0	Isopropylalcohol	2.83	S	0.407	0.407	r
107-13-1	Acrylonitrile	0.461	U	0.461	0.461	r
75-09-2	Methylene Chloride	0.863	U	0.863	0.863	r
75-15-0	Carbon Disulfide	0.321	U	0.321	0.321	r
1634-04-4	Methyl tert-butyl ether(MTBE)	0.278	U	0.278	0.278	r
78-93-3	Methyl Ethyl Ketone	0.339	U	0.339	0.339	r
110-54-3	Hexane	0.284	U	0.284	0.284	r
141-78-6	Ethyl acetate	0.278	U	0.278	0.278	r
109-99-9	Tetrahydrofuran	0.339	U	0.339	0.339	r
110-82-7	Cyclohexane	0.291	U	0.291	0.291	r
540-84-1	2,2,4-trimethylpentane	0.215	U	0.215	0.215	r
142-82-5	Heptane	0.244	U	0.244	0.244	r
108-10-1	4-Methyl-2-pentanone(MIBK)	0.244	U	0.244	0.244	r
10061-02-6	trans-1,3-Dichloropropene	0.221	U	0.221	0.221	r
108-88-3	Toluene	1.11		0.266	0.266	r
591-78-6	2-Hexanone(MBK)	0.244	U	0.244	0.244	r
630-20-6	1,1,1,2-Tetrachloroethane	0.146	U	0.146	0.146	r
108-90-7	Chlorobenzene	0.217	U	0.217	0.217	r
100-41-4	Ethylbenzene	0.230	U	0.230	0.230	r
100-42-5	Styrene	0.235	U	0.235	0.235	r
95-47-6	o-Xylene	0.230	U	0.230	0.230	r
98-82-8	Isopropylbenzene	0.204	U	0.204	0.204	r
622-96-8	4-Ethyltoluene	0.204	U	0.204	0.204	r
108-67-8	1,3,5-Trimethylbenzene	0.204	U	0.204	0.204	r
95-63-6	1,2,4-Trimethylbenzene	0.204	U	0.204	0.204	r
91-20-3	Naphthalene	0.200	U	0.200	0.200	r
76-14-2	1,2-Dichlorotetrafluoroethane(sim)	0.143	U	0.143	0.143	r
75-01-4	Vinyl Chloride(sim)	0.078	U	0.078	0.078	r

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

1
AIR ANALYSIS DATA SHEET

CLIENT ID

IA-1

Client:	AMC-ENG	Lab:	Phoenix Env. Labs
SDG No.:	GCS16244	Lab Sample ID:	CS16245
Canister:	23344	Lab File ID:	1126_10.D
Instrument:	CHEM24	Column:	RTX-1
		Date Received:	11/26/24
Purge Volume	200 (cc)	Date Analyzed:	11/26/24
Matrix:	AIR	Dilution Factor:	1

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
74-83-9	Bromomethane(sim)	0.258	U	0.258	0.258	r
107-06-2	1,2-Dichloroethane(sim)	0.247	U	0.247	0.247	r
71-55-6	1,1,1-Trichloroethane(sim)	0.183	U	0.183	0.183	r
71-43-2	Benzene(sim)	0.313	U	0.313	0.313	r
56-23-5	Carbon Tetrachloride(sim)	0.078		0.032	0.032	r
75-35-4	1,1-Dichloroethene(sim)	0.051	U	0.051	0.051	r
76-13-1	Trichlorotrifluoroethane(sim)	0.131	U	0.131	0.131	r
156-60-5	Trans-1,2-Dichloroethene(sim)	0.252	U	0.252	0.252	r
75-34-3	1,1-Dichloroethane(sim)	0.247	U	0.247	0.247	r
156-59-2	Cis-1,2-Dichloroethene(sim)	0.051	U	0.051	0.051	r
67-66-3	Chloroform(sim)	0.205	U	0.205	0.205	r
78-87-5	1,2-dichloropropane(sim)	0.217	U	0.217	0.217	r
75-27-4	Bromodichloromethane(sim)	0.149	U	0.149	0.149	r
79-01-6	Trichloroethene(sim)	0.037	U	0.037	0.037	r
123-91-1	1,4-Dioxane(sim)	0.278	U	0.278	0.278	r
10061-01-5	cis-1,3-Dichloropropene(sim)	0.221	U	0.221	0.221	r
79-00-5	1,1,2-Trichloroethane(sim)	0.183	U	0.183	0.183	r
124-48-1	Dibromochloromethane(sim)	0.118	U	0.118	0.118	r
106-93-4	1,2-Dibromoethane(EDB)(sim)	0.130	U	0.130	0.130	r
127-18-4	Tetrachloroethene(sim)	0.037	U	0.037	0.037	r
75-25-2	Bromoform(sim)	0.097	U	0.097	0.097	r
179601-23-1	m,p-Xylene(sim)	0.230	U	0.230	0.230	r
79-34-5	1,1,2,2-Tetrachloroethane(sim)	0.146	U	0.146	0.146	r
100-44-7	Benzyl chloride(sim)	0.193	U	0.193	0.193	r
541-73-1	1,3-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
106-46-7	1,4-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
135-98-8	sec-Butylbenzene(sim)	0.182	U	0.182	0.182	r
99-87-6	4-Isopropyltoluene(sim)	0.182	U	0.182	0.182	r
95-50-1	1,2-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
104-51-8	n-Butylbenzene(sim)	0.182	U	0.182	0.182	r
120-82-1	1,2,4-Trichlorobenzene(sim)	0.135	U	0.135	0.135	r
87-68-3	Hexachlorobutadiene(sim)	0.094	U	0.094	0.094	r

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

Data Path : H:\AIR2024\CHEM24\11NOV\26\
 Data File : 1126_10.D
 Acq On : 26 Nov 2024 8:37 pm
 Operator : Keith
 Client ID : IA-1
 Lab ID : CS16245
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Nov 27 08:25:22 2024
 Quant Method : H:\AIR2024\CHEM24\Methods\24_AIR_1018.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Mon Oct 21 10:04:28 2024
 Response via : Initial Calibration

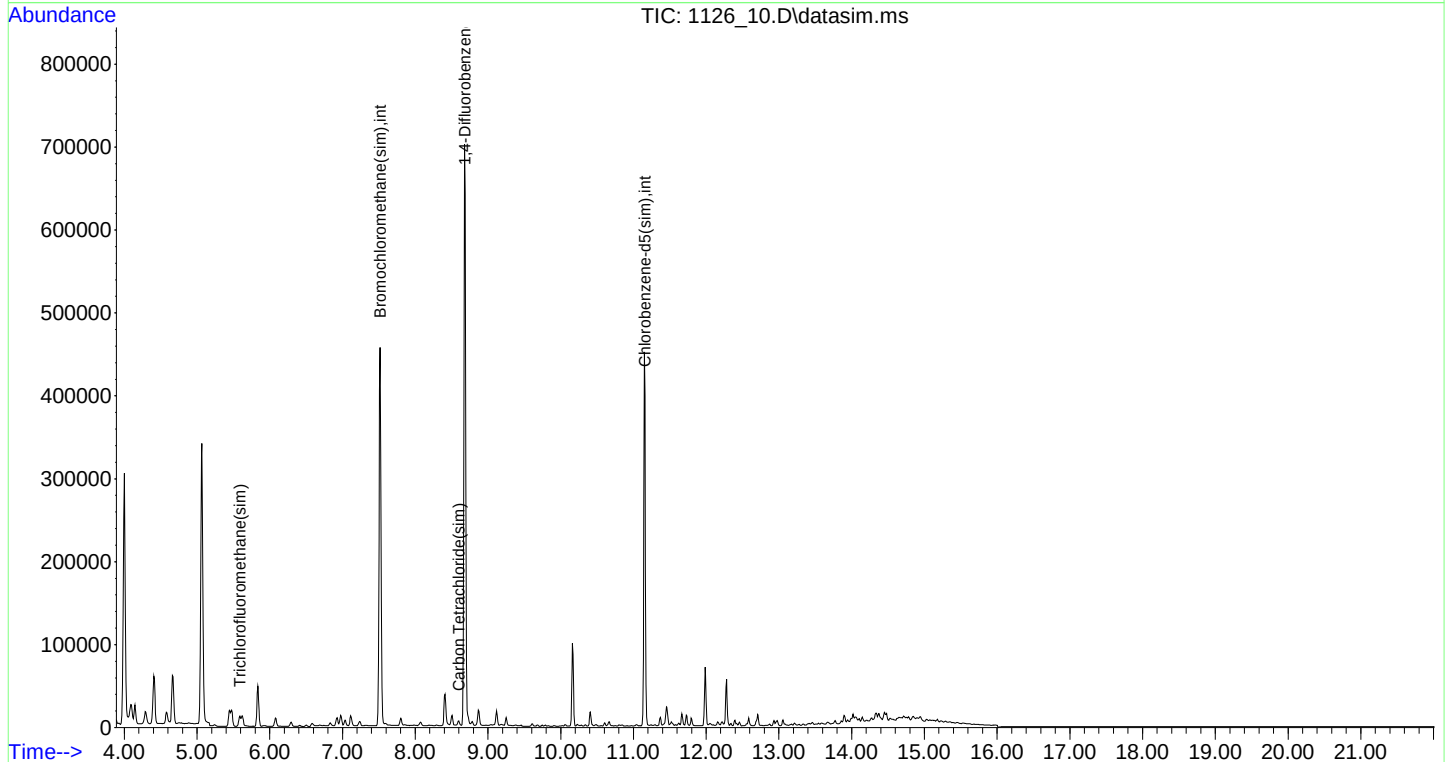
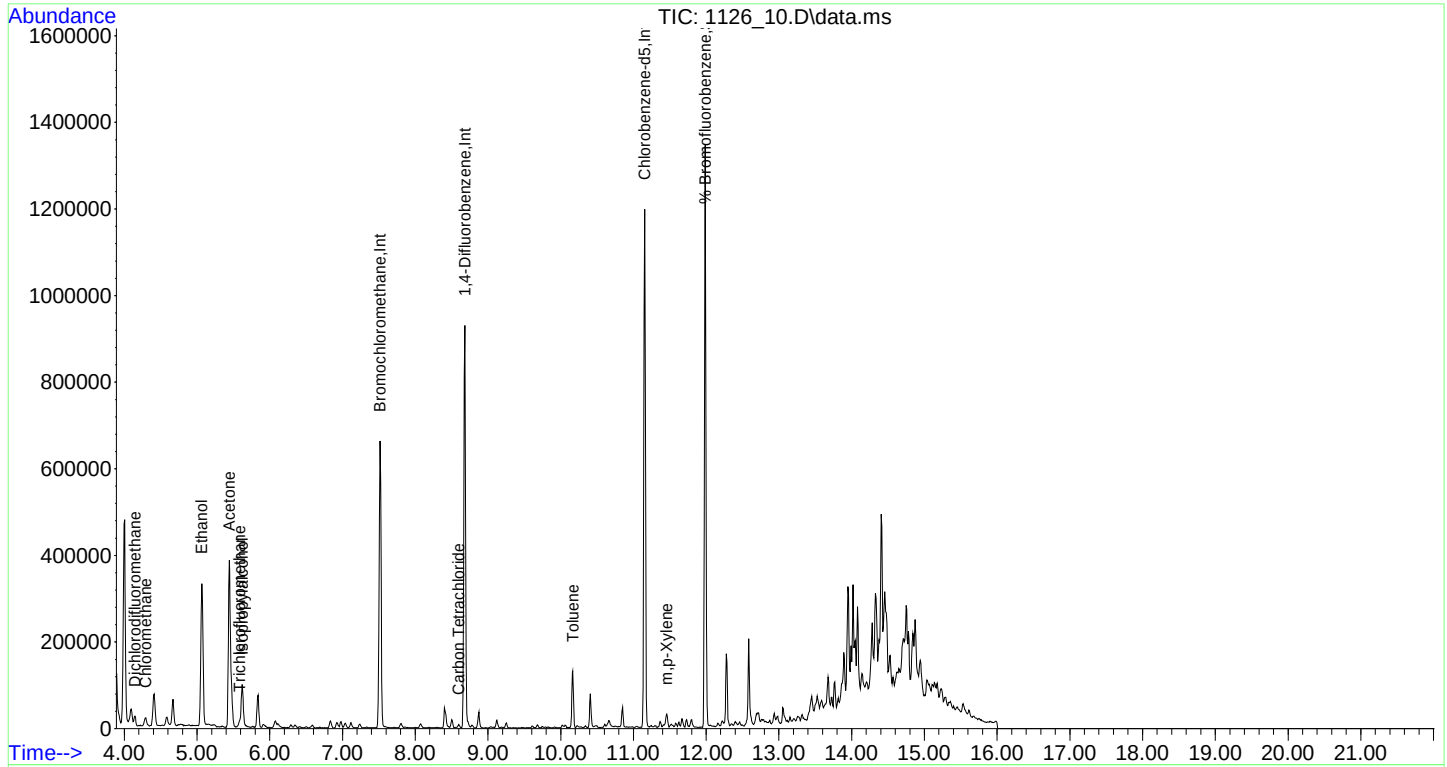
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

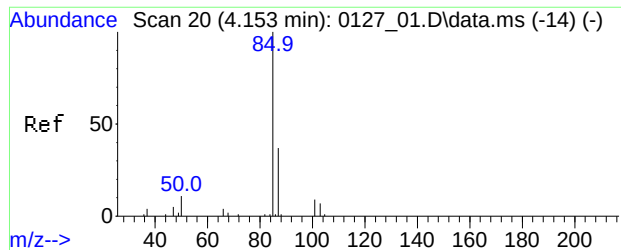
Internal Standards						
1) Bromochloromethane	7.515	130	194630	10.000	ng	0.00
37) 1,4-Difluorobenzene	8.684	114	628030	10.000	ng	0.00
54) Chlorobenzene-d5	11.155	82	263176	10.000	ng	0.00
81) Bromochloromethane(sim)	7.518	130	200787	10.000	ng	# 0.00
96) 1,4-Difluorobenzene(sim)	8.684	114	628030	10.000	ng	0.00
106) Chlorobenzene-d5(sim)	11.155	82	263176	10.000	ng	# 0.00
System Monitoring Compounds						
63) % Bromofluorobenzene	11.989	95	341352	10.023	ppbv	0.00
Spiked Amount	10.000	Range 70 - 130	Recovery	= 100.20%		
Target Compounds						
					Qvalue	
3) Dichlorodifluoromethane	4.145	85	23035	0.458	ppbv#	97
4) Chloromethane	4.294	50	14906	0.601	ppbv	94
11) Ethanol	5.065	45	430572	38.073	ppbv	96
12) Acetone	5.443	43	504498	13.119	ppbv	91
13) Trichlorofluoromethane	5.584	101	11542	0.208	ppbv	98
14) Isopropylalcohol	5.621	45	135063	2.826	ppbv	95
35) Carbon Tetrachloride	8.597	117	3798	0.076	ppbv	99
49) Toluene	10.166	91	75908	1.105	ppbv	98
58) m,p-Xylene	11.458	91	16056	0.267	ppbv	99
85] Trichlorofluoromethane...	5.587	101	12335	0.210	ppbv#	100
89] Carbon Tetrachloride(sim)	8.600	117	4013	0.078	ppbv	100

(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Data Path : H:\AIR2024\CHEM24\11NOV\26\
Data File : 1126_10.D
Acq On : 26 Nov 2024 8:37 pm
Operator : Keith
Client ID : IA-1
Lab ID : CS16245
ALS Vial : 11 Sample Multiplier: 1

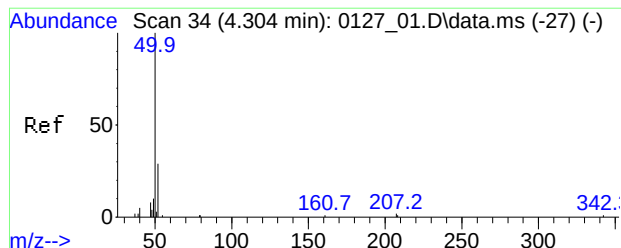
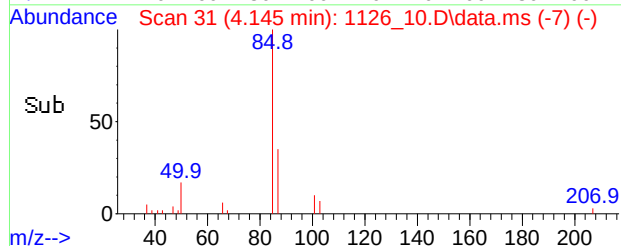
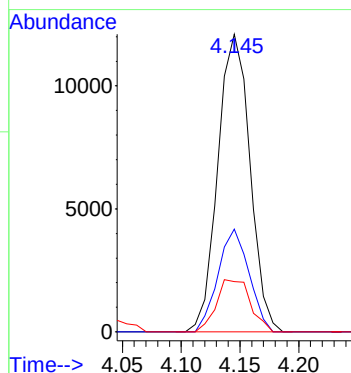
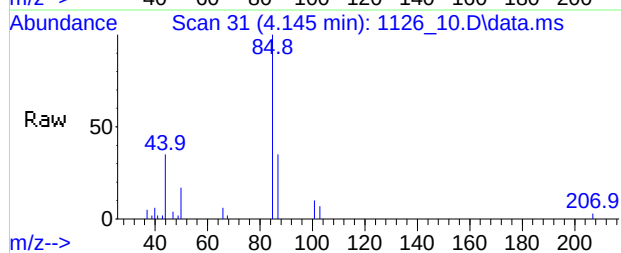
Quant Time: Nov 27 08:25:22 2024
Quant Method : H:\AIR2024\CHEM24\Methods\24_AIR_1018.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Mon Oct 21 10:04:28 2024
Response via : Initial Calibration





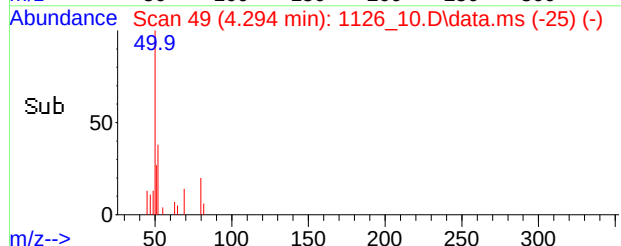
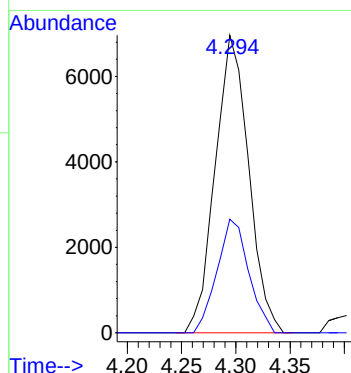
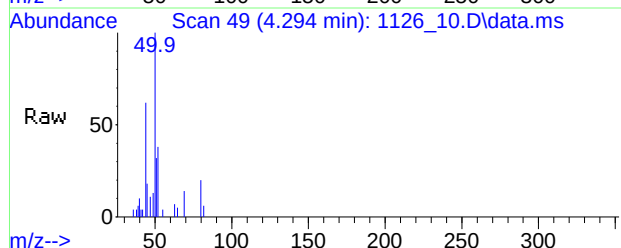
#3
Dichlorodifluoromethane
Conc: 8\$ 0.458 ppbv
RT: 4.145 min Scan# 31
Delta R.T. 0.000 min
Lab File: 1126_10.D
Acq: 26 Nov 2024 8:37 pm

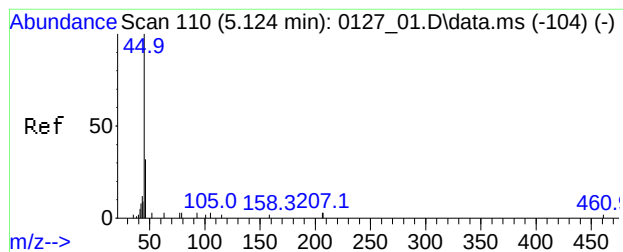
Tgt Ion: 85 Resp: 23035
Ion Ratio Lower Upper
85 100
87 33.4 26.9 40.3
50 18.6 12.0 18.0#



#4
Chloromethane
Conc: 8\$ 0.601 ppbv
RT: 4.294 min Scan# 49
Delta R.T. 0.000 min
Lab File: 1126_10.D
Acq: 26 Nov 2024 8:37 pm

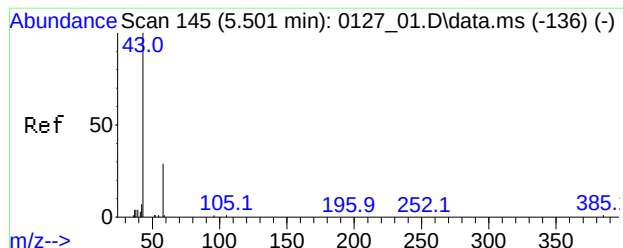
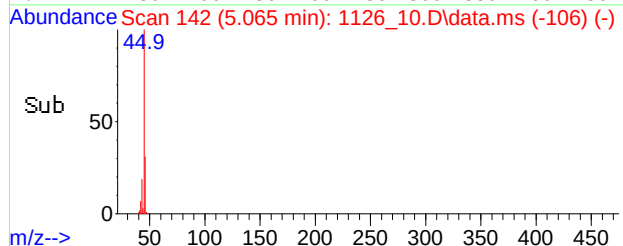
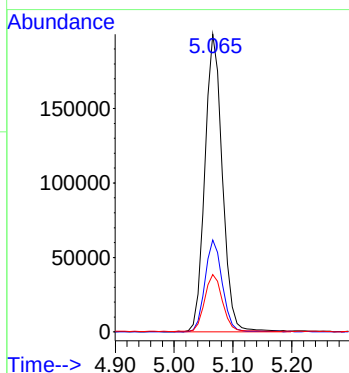
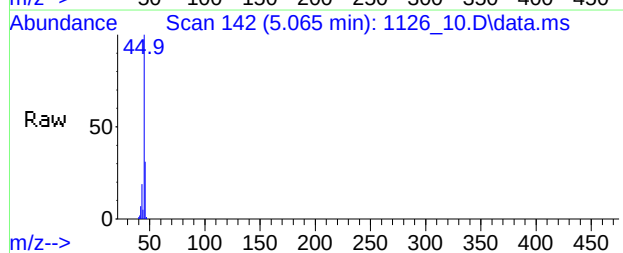
Tgt Ion: 50 Resp: 14906
Ion Ratio Lower Upper
50 100
52 36.2 12.8 52.8





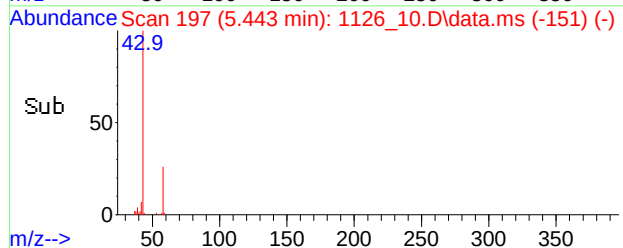
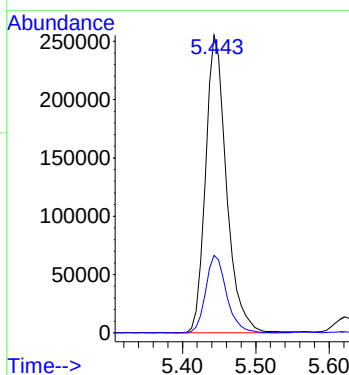
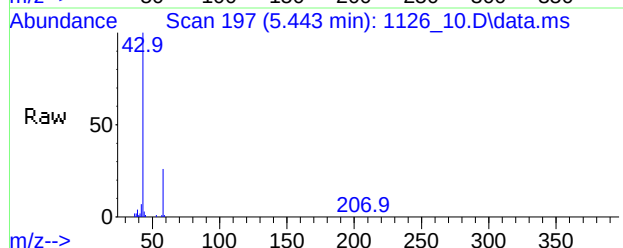
#11
Ethanol
Conc: 8\$ 38.073 ppbv
RT: 5.065 min Scan# 142
Delta R.T. 0.000 min
Lab File: 1126_10.D
Acq: 26 Nov 2024 8:37 pm

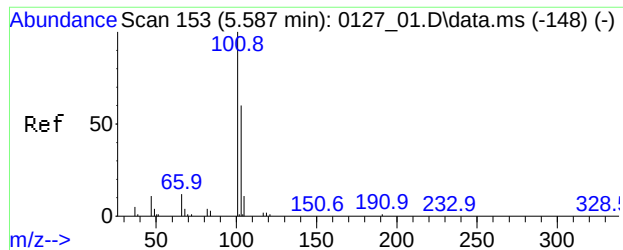
Tgt Ion: 45 Resp: 430572
Ion Ratio Lower Upper
45 100
46 31.5 25.0 37.6
43 20.4 20.0 30.0



#12
Acetone
Conc: 8\$ 13.119 ppbv
RT: 5.443 min Scan# 197
Delta R.T. 0.000 min
Lab File: 1126_10.D
Acq: 26 Nov 2024 8:37 pm

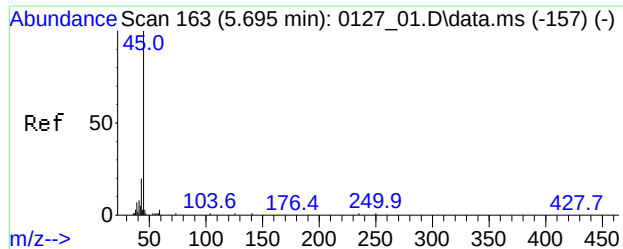
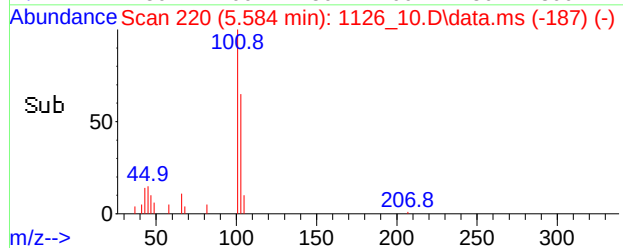
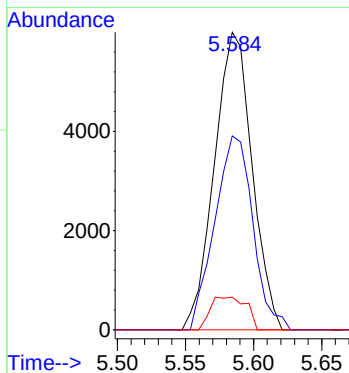
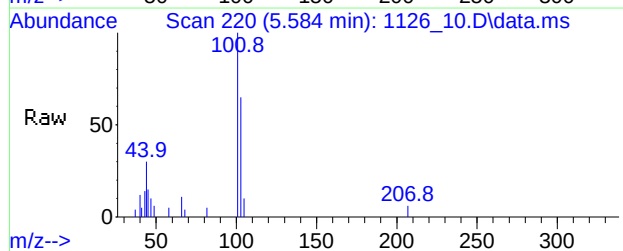
Tgt Ion: 43 Resp: 504498
Ion Ratio Lower Upper
43 100
58 25.9 24.6 37.0





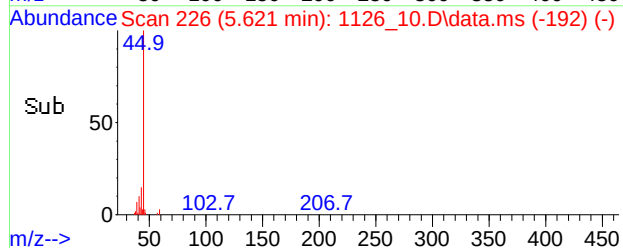
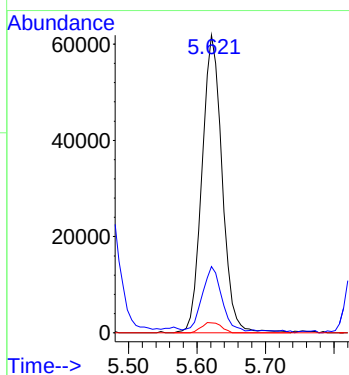
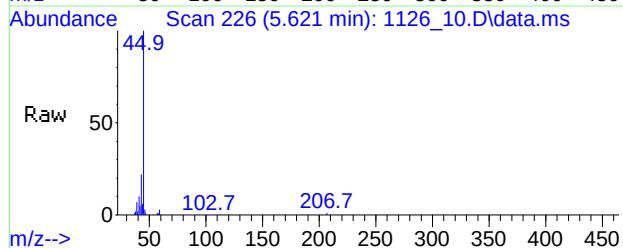
#13
Trichlorofluoromethane
Conc: 8\$ 0.208 ppbv
RT: 5.584 min Scan# 220
Delta R.T. 0.000 min
Lab File: 1126_10.D
Acq: 26 Nov 2024 8:37 pm

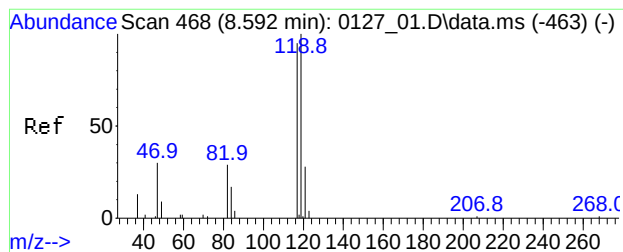
Tgt Ion: 101 Resp: 11542
Ion Ratio Lower Upper
101 100
103 65.7 53.4 80.2
66 10.5 9.3 13.9



#14
Isopropylalcohol
Conc: 8\$ 2.826 ppbv
RT: 5.621 min Scan# 226
Delta R.T. 0.006 min
Lab File: 1126_10.D
Acq: 26 Nov 2024 8:37 pm

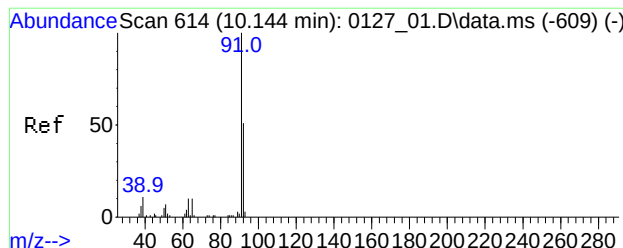
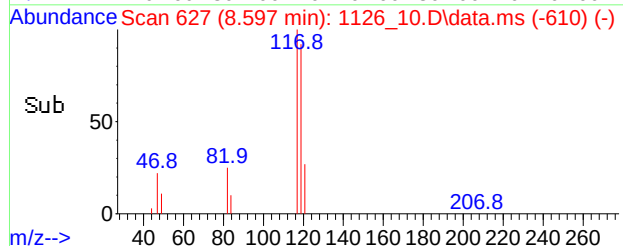
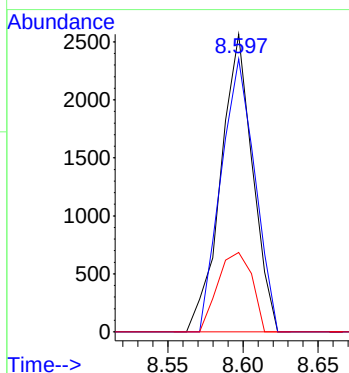
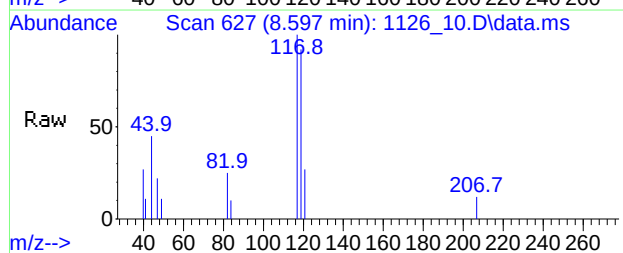
Tgt Ion: 45 Resp: 135063
Ion Ratio Lower Upper
45 100
43 19.2 13.3 19.9
59 3.2 2.6 4.0





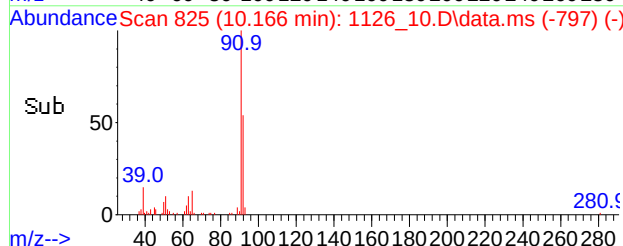
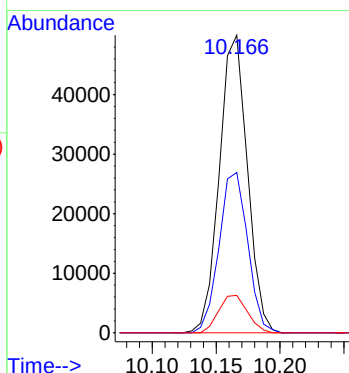
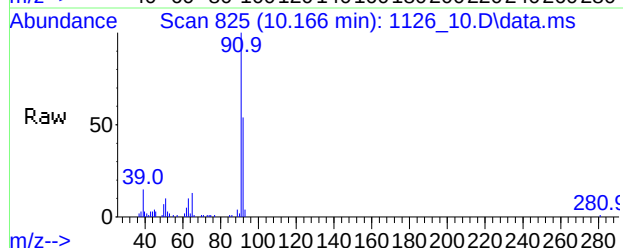
#35
Carbon Tetrachloride
Conc: 8\$ Below Cal
RT: 8.597 min Scan# 627
Delta R.T. 0.000 min
Lab File: 1126_10.D
Acq: 26 Nov 2024 8:37 pm

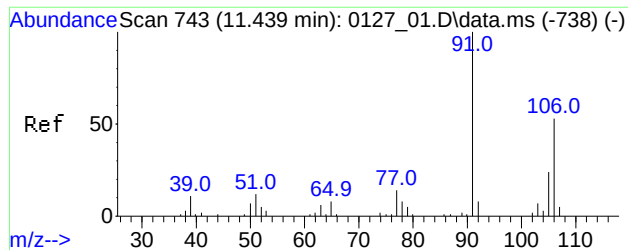
Tgt Ion	Ratio	Lower	Upper
117	100		
119	96.8	76.5	116.5
121	28.6	11.2	51.2



#49
Toluene
Conc: 8\$ 1.105 ppbv
RT: 10.166 min Scan# 825
Delta R.T. 0.000 min
Lab File: 1126_10.D
Acq: 26 Nov 2024 8:37 pm

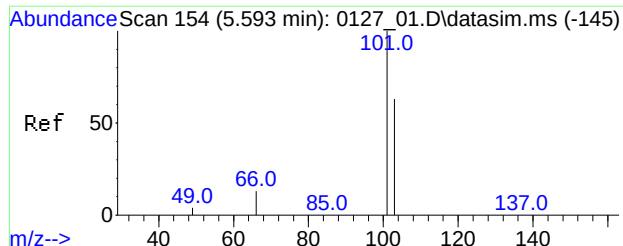
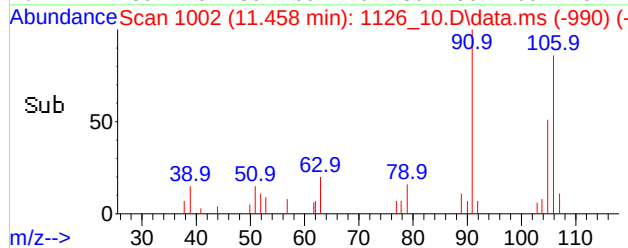
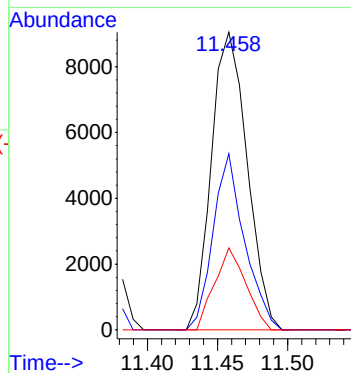
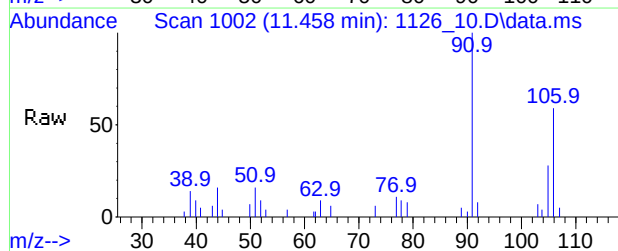
Tgt Ion	Ratio	Lower	Upper
91	100		
92	55.1	45.0	67.4
65	13.0	9.4	14.2





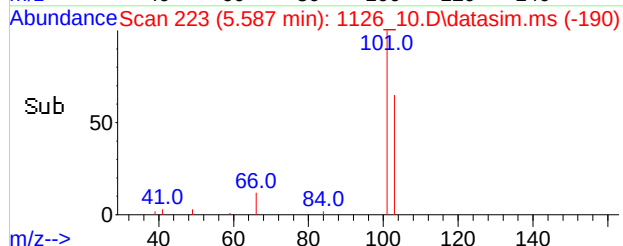
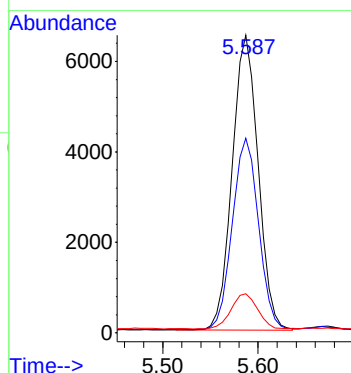
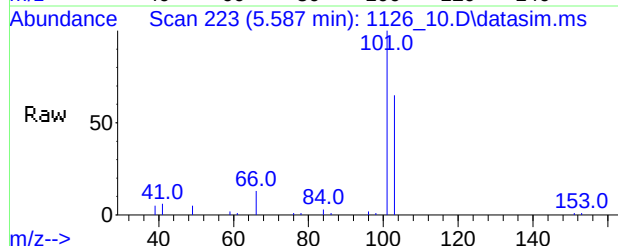
#58
m,p-Xylene
Conc: 8\$ 0.267 ppbv
RT: 11.458 min Scan# 1002
Delta R.T. -0.008 min
Lab File: 1126_10.D
Acq: 26 Nov 2024 8:37 pm

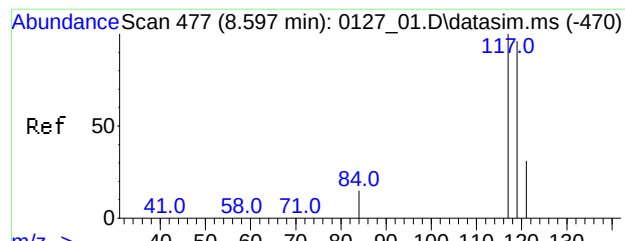
Tgt Ion: 91 Resp: 16056
Ion Ratio Lower Upper
91 100
106 52.0 41.1 61.7
105 24.0 19.5 29.3



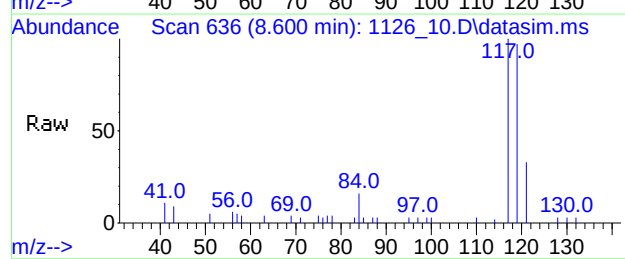
#85
Trichlorofluoromethane(sim)
Conc: 8\$ 0.210 ppbv
RT: 5.587 min Scan# 223
Delta R.T. 0.000 min
Lab File: 1126_10.D
Acq: 26 Nov 2024 8:37 pm

Tgt Ion: 101 Resp: 12335
Ion Ratio Lower Upper
101 100
103 65.5 52.4 78.6
66 12.1 11.4 11.4#

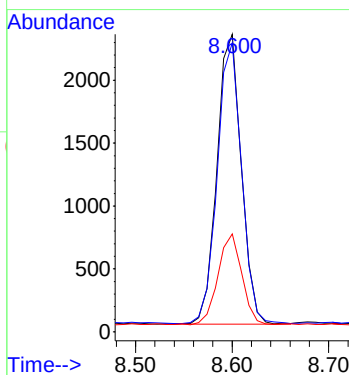
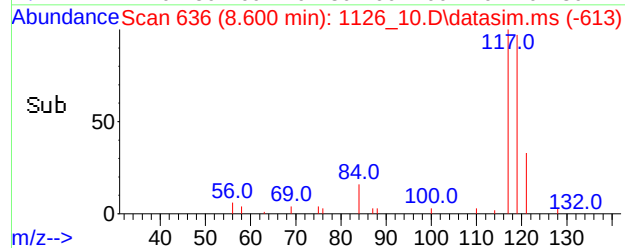




#89
Carbon Tetrachloride(sim)
Conc: 8\$ 0.078 ppbv
RT: 8.600 min Scan# 636
Delta R.T. 0.000 min
Lab File: 1126_10.D
Acq: 26 Nov 2024 8:37 pm



Tgt Ion: 117 Resp: 4013
Ion Ratio Lower Upper
117 100
119 96.5 77.4 116.2
121 30.9 24.9 37.3



1
AIR ANALYSIS DATA SHEET

CLIENT ID

Client:	<u>AMC-ENG</u>	Lab:	<u>Phoenix Env. Labs</u>
SDG No.:	<u>GCS16244</u>	Lab Sample ID:	<u>CS16246 5X</u>
Canister:	<u>49198</u>	Lab File ID:	<u>1126_16.D</u>
Instrument:	<u>CHEM24</u>	Column:	<u>RTX-1</u>
Purge Volume	<u>200</u> (cc)	Date Received:	<u>11/26/24</u>
Matrix:	<u>AIR</u>	Date Analyzed:	<u>11/27/24</u>
		Dilution Factor:	<u>5</u>

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
115-07-1	Propylene	2.91	U	2.91	2.91	r
75-71-8	Dichlorodifluoromethane	1.01	U	1.01	1.01	r
74-87-3	Chloromethane	2.85		2.42	2.42	r
106-99-0	1,3-Butadiene	2.26	U	2.26	2.26	r
75-00-3	Chloroethane	1.90	U	1.90	1.90	r
64-17-5	Ethanol	19.8	S	2.66	2.66	r
67-64-1	Acetone	53.3	S	2.11	2.11	r
67-63-0	Isopropylalcohol	3.67	S	2.04	2.04	r
107-13-1	Acrylonitrile	2.31	U	2.31	2.31	r
75-09-2	Methylene Chloride	4.32	U	4.32	4.32	r
75-15-0	Carbon Disulfide	1.61	U	1.61	1.61	r
1634-04-4	Methyl tert-butyl ether(MTBE)	1.39	U	1.39	1.39	r
78-93-3	Methyl Ethyl Ketone	1.70	U	1.70	1.70	r
110-54-3	Hexane	1.68	S	1.42	1.42	r
67-66-3	Chloroform	3.56		1.02	1.02	r
141-78-6	Ethyl acetate	1.39	U	1.39	1.39	r
109-99-9	Tetrahydrofuran	1.70	U	1.70	1.70	r
71-43-2	Benzene	2.40		1.57	1.57	r
110-82-7	Cyclohexane	1.82		1.45	1.45	r
540-84-1	2,2,4-trimethylpentane	1.07	U	1.07	1.07	r
142-82-5	Heptane	1.22	U	1.22	1.22	r
108-10-1	4-Methyl-2-pentanone(MIBK)	1.22	U	1.22	1.22	r
10061-02-6	trans-1,3-Dichloropropene	1.10	U	1.10	1.10	r
108-88-3	Toluene	2.00		1.33	1.33	r
591-78-6	2-Hexanone(MBK)	1.22	U	1.22	1.22	r
127-18-4	Tetrachloroethene	4.57		0.184	0.184	r
630-20-6	1,1,1,2-Tetrachloroethane	0.830		0.729	0.729	r
108-90-7	Chlorobenzene	1.09	U	1.09	1.09	r
100-41-4	Ethylbenzene	1.15	U	1.15	1.15	r
100-42-5	Styrene	1.17	U	1.17	1.17	r
95-47-6	o-Xylene	1.15	U	1.15	1.15	r
98-82-8	Isopropylbenzene	1.02	U	1.02	1.02	r
622-96-8	4-Ethyltoluene	1.02	U	1.02	1.02	r
108-67-8	1,3,5-Trimethylbenzene	1.02	U	1.02	1.02	r
95-63-6	1,2,4-Trimethylbenzene	1.02	U	1.02	1.02	r
91-20-3	Naphthalene	1.00	U	1.00	1.00	r

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

1
AIR ANALYSIS DATA SHEET

CLIENT ID

Client:	<u>AMC-ENG</u>	Lab:	<u>Phoenix Env. Labs</u>
SDG No.:	<u>GCS16244</u>	Lab Sample ID:	<u>CS16246 5X</u>
Canister:	<u>49198</u>	Lab File ID:	<u>1126_16.D</u>
Instrument:	<u>CHEM24</u>	Column:	<u>RTX-1</u>
Purge Volume	<u>200</u> (cc)	Date Received:	<u>11/26/24</u>
Matrix:	<u>AIR</u>	Date Analyzed:	<u>11/27/24</u>
		Dilution Factor:	<u>5</u>

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
76-14-2	1,2-Dichlorotetrafluoroethane(sim)	0.716	U	0.716	0.716	r
75-01-4	Vinyl Chloride(sim)	0.390	U	0.390	0.390	r
74-83-9	Bromomethane(sim)	1.29	U	1.29	1.29	r
75-69-4	Trichlorofluoromethane(sim)	0.891	U	0.891	0.891	r
107-06-2	1,2-Dichloroethane(sim)	1.24	U	1.24	1.24	r
71-55-6	1,1,1-Trichloroethane(sim)	0.917	U	0.917	0.917	r
56-23-5	Carbon Tetrachloride(sim)	0.159	U	0.159	0.159	r
75-35-4	1,1-Dichloroethene(sim)	0.252	U	0.252	0.252	r
76-13-1	Trichlorotrifluoroethane(sim)	0.653	U	0.653	0.653	r
156-60-5	Trans-1,2-Dichloroethene(sim)	1.26	U	1.26	1.26	r
75-34-3	1,1-Dichloroethane(sim)	1.24	U	1.24	1.24	r
156-59-2	Cis-1,2-Dichloroethene(sim)	0.252	U	0.252	0.252	r
78-87-5	1,2-dichloropropane(sim)	1.08	U	1.08	1.08	r
75-27-4	Bromodichloromethane(sim)	0.747	U	0.747	0.747	r
79-01-6	Trichloroethene(sim)	0.185	U	0.185	0.185	r
123-91-1	1,4-Dioxane(sim)	1.39	U	1.39	1.39	r
10061-01-5	cis-1,3-Dichloropropene(sim)	1.10	U	1.10	1.10	r
79-00-5	1,1,2-Trichloroethane(sim)	0.917	U	0.917	0.917	r
124-48-1	Dibromochloromethane(sim)	0.587	U	0.587	0.587	r
106-93-4	1,2-Dibromoethane(EDB)(sim)	0.651	U	0.651	0.651	r
75-25-2	Bromoform(sim)	0.484	U	0.484	0.484	r
179601-23-1	m,p-Xylene(sim)	1.18		1.15	1.15	r
79-34-5	1,1,2,2-Tetrachloroethane(sim)	0.729	U	0.729	0.729	r
100-44-7	Benzyl chloride(sim)	0.966	U	0.966	0.966	r
541-73-1	1,3-Dichlorobenzene(sim)	0.832	U	0.832	0.832	r
106-46-7	1,4-Dichlorobenzene(sim)	0.832	U	0.832	0.832	r
135-98-8	sec-Butylbenzene(sim)	0.911	U	0.911	0.911	r
99-87-6	4-Isopropyltoluene(sim)	0.911	U	0.911	0.911	r
95-50-1	1,2-Dichlorobenzene(sim)	0.832	U	0.832	0.832	r
104-51-8	n-Butylbenzene(sim)	0.911	U	0.911	0.911	r
120-82-1	1,2,4-Trichlorobenzene(sim)	0.674	U	0.674	0.674	r
87-68-3	Hexachlorobutadiene(sim)	0.469	U	0.469	0.469	r

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

Data Path : H:\AIR2024\CHEM24\11NOV\26\
 Data File : 1126_16.D
 Acq On : 27 Nov 2024 12:22 am
 Operator : Keith
 Client ID : SS-2 5X
 Lab ID : CS16246 5X
 ALS Vial : 16 Sample Multiplier: 1

Quant Time: Nov 27 08:47:51 2024
 Quant Method : H:\AIR2024\CHEM24\Methods\24_AIR_1018.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Mon Oct 21 10:04:28 2024
 Response via : Initial Calibration

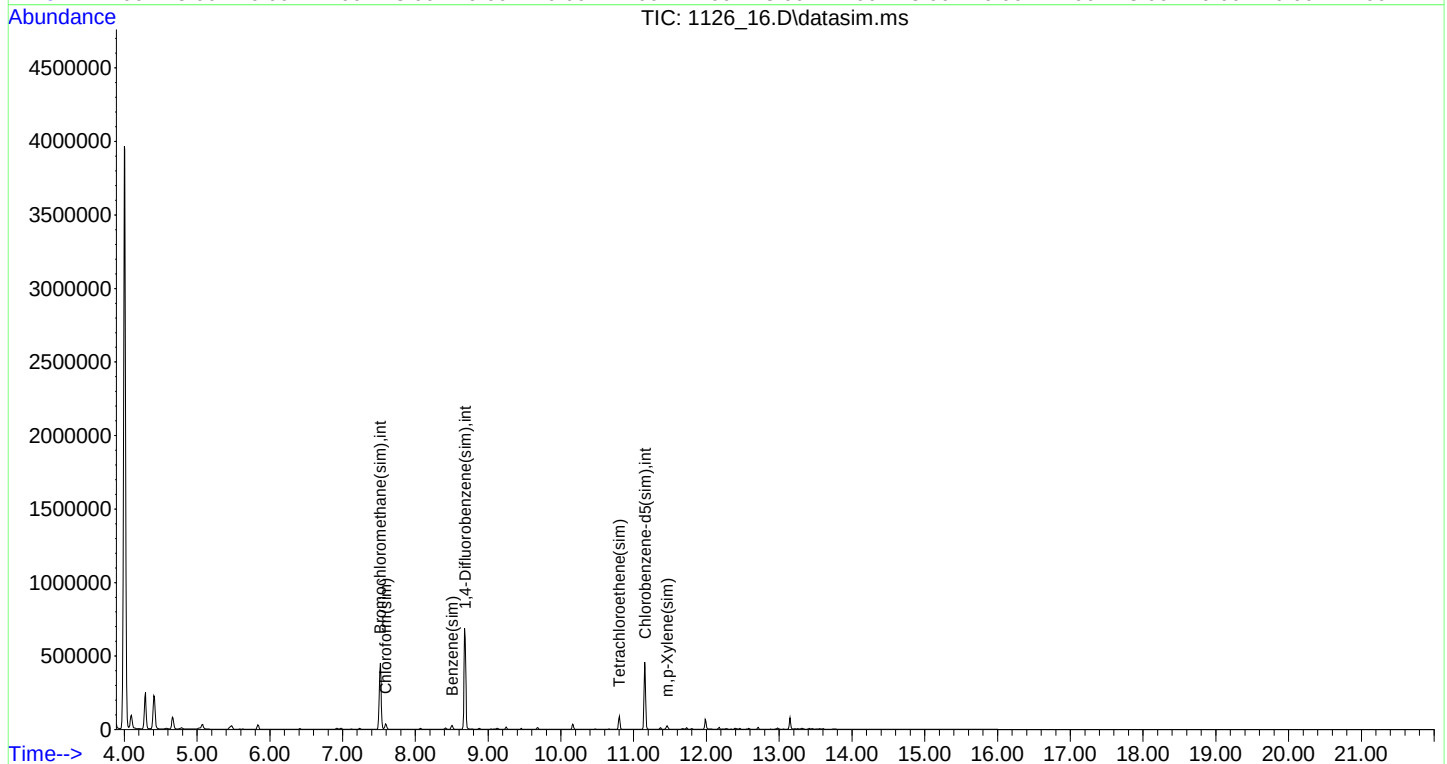
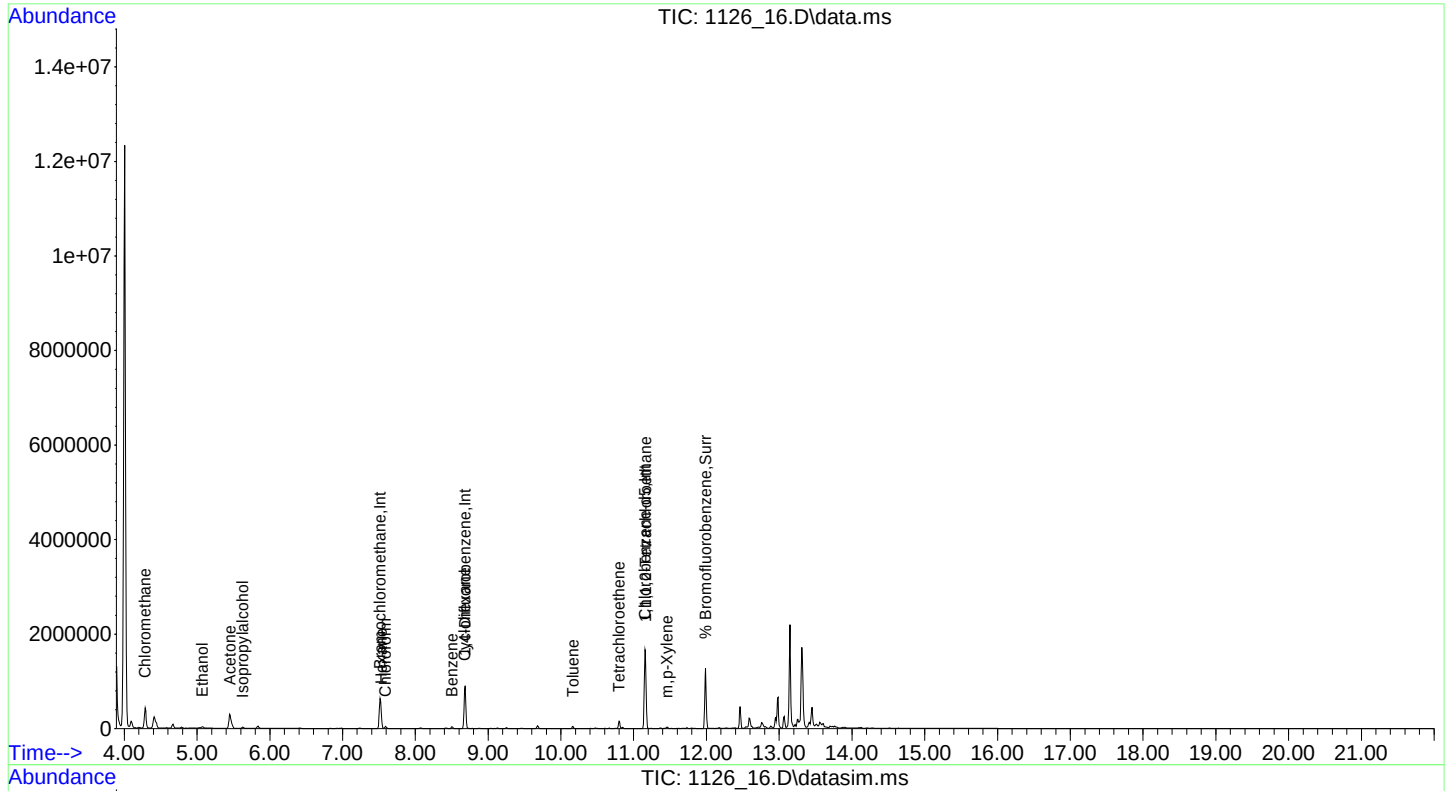
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

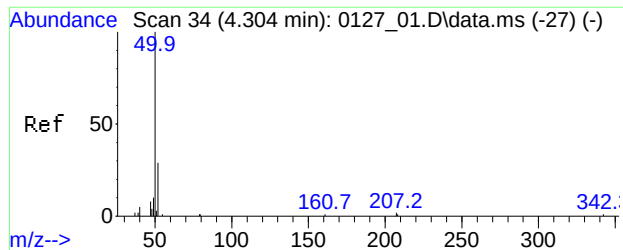
Internal Standards						
1) Bromochloromethane	7.515	130	187117	10.000	ng	0.00
37) 1,4-Difluorobenzene	8.684	114	599034	10.000	ng	0.00
54) Chlorobenzene-d5	11.155	82	259792	10.000	ng	0.00
81) Bromochloromethane(sim)	7.518	130	192847	10.000	ng	# 0.00
96) 1,4-Difluorobenzene(sim)	8.684	114	599034	10.000	ng	0.00
106) Chlorobenzene-d5(sim)	11.155	82	259792	10.000	ng	# 0.00
System Monitoring Compounds						
63) % Bromofluorobenzene	11.989	95	326832	9.721	ppbv	0.00
Spiked Amount	10.000	Range 70 - 130	Recovery	=	97.20%	
Target Compounds						
					Qvalue	
4) Chloromethane	4.286	50	13573	0.569	ppbv	82
11) Ethanol	5.074	45	43146	3.968	ppbv#	90
12) Acetone	5.449	43	394344	10.666	ppbv#	89
14) Isopropylalcohol	5.627	45	33694	0.733	ppbv#	78
28) Hexane	7.531	57	11420	0.335	ppbv#	77
29) Chloroform	7.588	83	28237	0.711	ppbv	95
34) Benzene	8.502	78	25239	0.479	ppbv#	95
36) Cyclohexane	8.675	84	7521	0.363	ppbv	87
49) Toluene	10.166	91	26163	0.399	ppbv#	98
53) Tetrachloroethene	10.800	166	36963	0.913	ppbv	98
55) 1,1,1,2-Tetrachloroethane	11.162	131	5615	0.166	ppbv#	51
58) m,p-Xylene	11.458	91	17048	0.287	ppbv	97
88] Benzene(sim)	8.502	78	25239	0.432	ppbv#	95
95] Chloroform(sim)	7.591	83	29929	0.697	ppbv#	96
105] Tetrachloroethene(sim)	10.802	166	38390	0.888	ppbv	99
108] m,p-Xylene(sim)	11.458	91	17048	0.236	ppbv	97

(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Data Path : H:\AIR2024\CHEM24\11NOV\26\
Data File : 1126_16.D
Acq On : 27 Nov 2024 12:22 am
Operator : Keith
Client ID : SS-2 5X
Lab ID : CS16246 5X
ALS Vial : 16 Sample Multiplier: 1

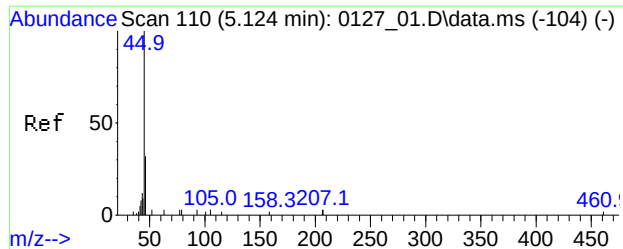
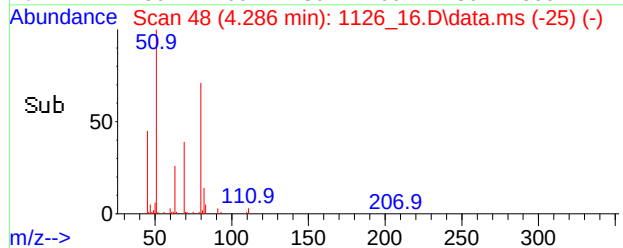
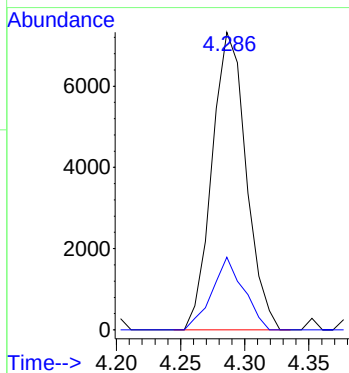
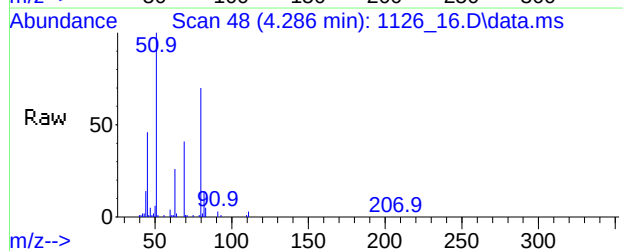
Quant Time: Nov 27 08:47:51 2024
Quant Method : H:\AIR2024\CHEM24\Methods\24_AIR_1018.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Mon Oct 21 10:04:28 2024
Response via : Initial Calibration





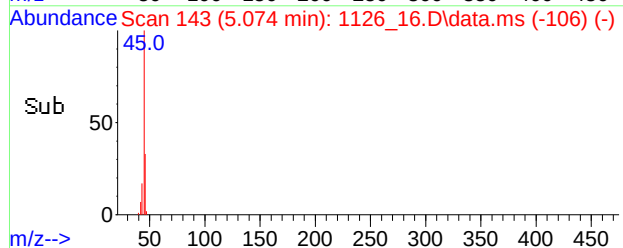
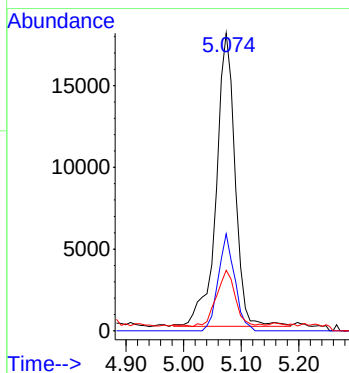
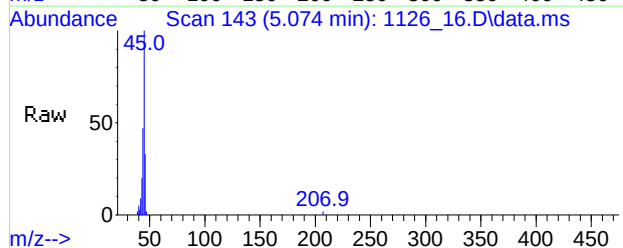
#4
Chloromethane
Conc: 8\$ 0.569 ppbv
RT: 4.286 min Scan# 48
Delta R.T. -0.008 min
Lab File: 1126_16.D
Acq: 27 Nov 2024 12:22 am

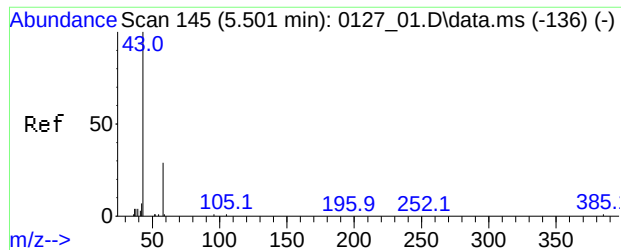
Tgt Ion: 50 Resp: 13573
Ion Ratio Lower Upper
50 100
52 22.6 12.8 52.8



#11
Ethanol
Conc: 8\$ 3.968 ppbv
RT: 5.074 min Scan# 143
Delta R.T. 0.008 min
Lab File: 1126_16.D
Acq: 27 Nov 2024 12:22 am

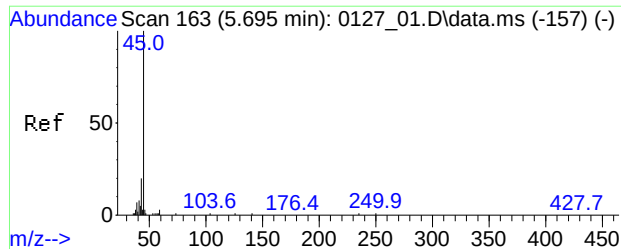
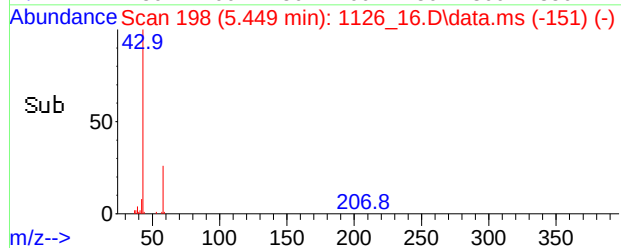
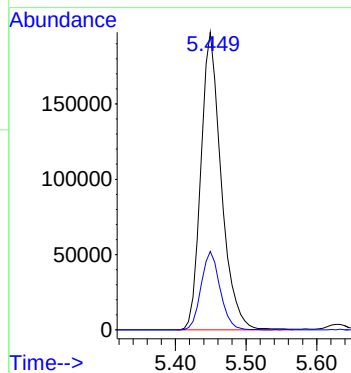
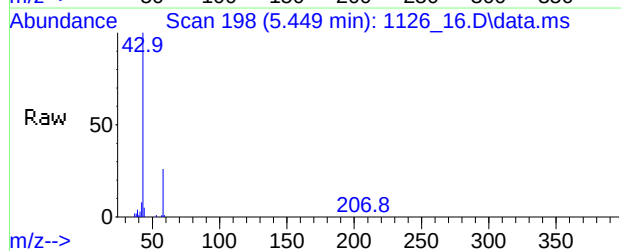
Tgt Ion: 45 Resp: 43146
Ion Ratio Lower Upper
45 100
46 27.1 25.0 37.6
43 18.3 20.0 30.0#





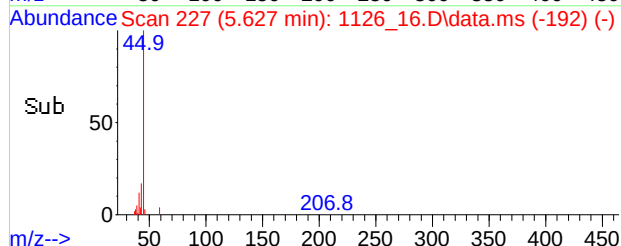
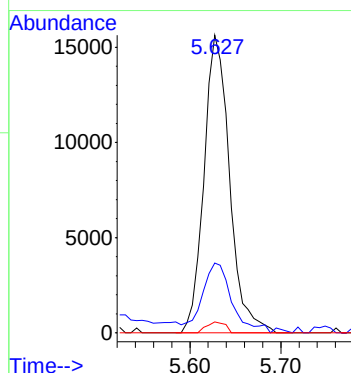
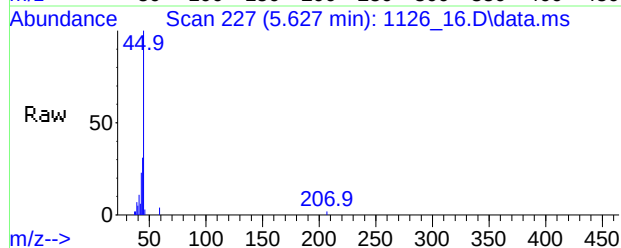
#12
Acetone
Conc: 8\$ 10.666 ppbv
RT: 5.449 min Scan# 198
Delta R.T. 0.006 min
Lab File: 1126_16.D
Acq: 27 Nov 2024 12:22 am

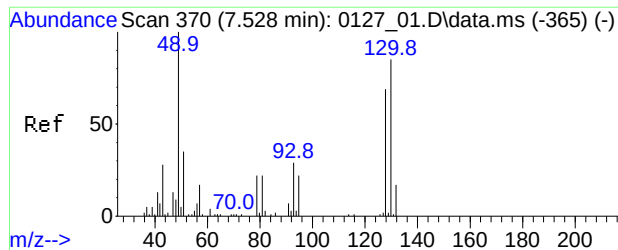
Tgt Ion: 43 Resp: 394344
Ion Ratio Lower Upper
43 100
58 24.6 24.6 37.0#



#14
Isopropylalcohol
Conc: 8\$ 0.733 ppbv
RT: 5.627 min Scan# 227
Delta R.T. 0.012 min
Lab File: 1126_16.D
Acq: 27 Nov 2024 12:22 am

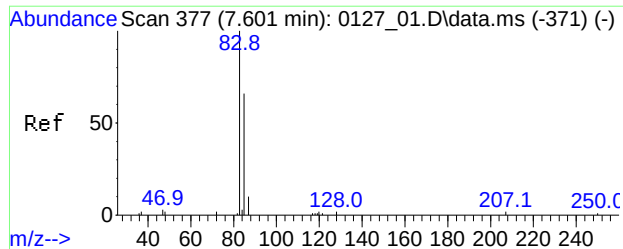
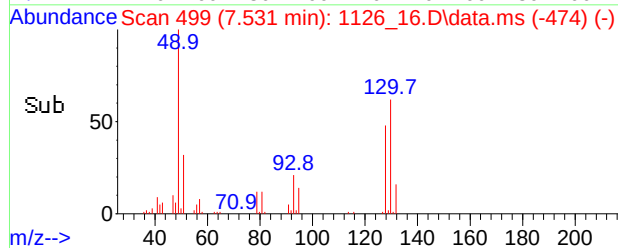
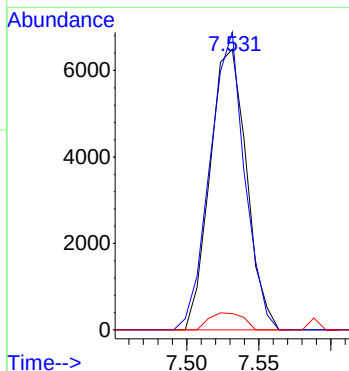
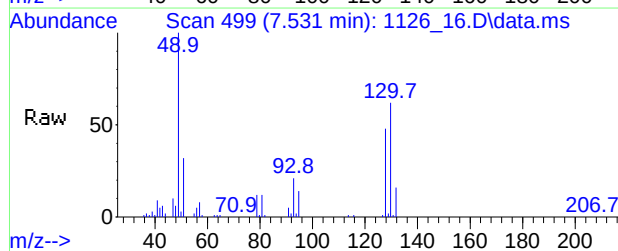
Tgt Ion: 45 Resp: 33694
Ion Ratio Lower Upper
45 100
43 27.6 13.3 19.9#
59 2.4 2.6 4.0#





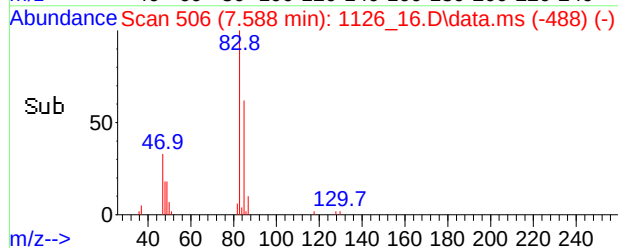
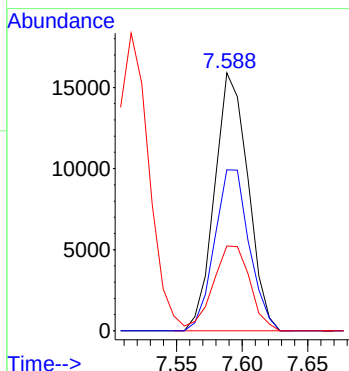
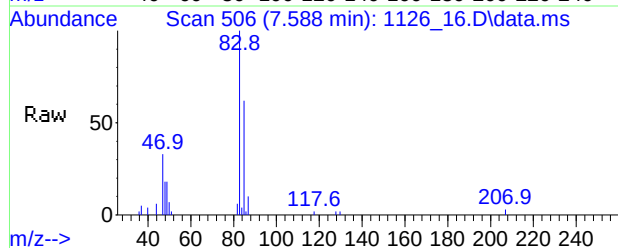
#28
Hexane
Conc: 8\$ 0.335 ppbv
RT: 7.531 min Scan# 499
Delta R.T. 0.000 min
Lab File: 1126_16.D
Acq: 27 Nov 2024 12:22 am

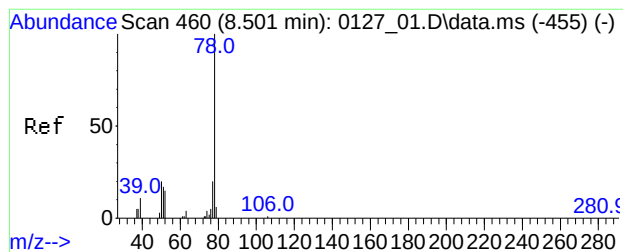
Tgt Ion: 57 Resp: 11420
Ion Ratio Lower Upper
57 100
41 100.7 63.4 95.2#
86 5.6 5.8 8.6#



#29
Chloroform
Conc: 8\$ 0.711 ppbv
RT: 7.588 min Scan# 506
Delta R.T. -0.008 min
Lab File: 1126_16.D
Acq: 27 Nov 2024 12:22 am

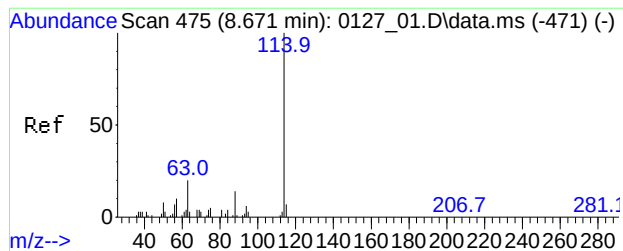
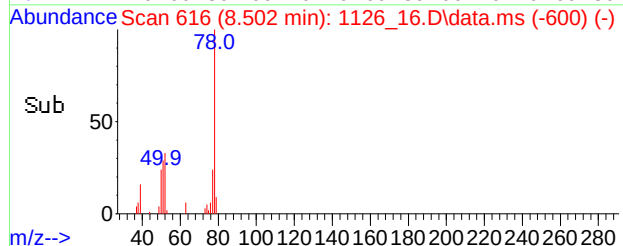
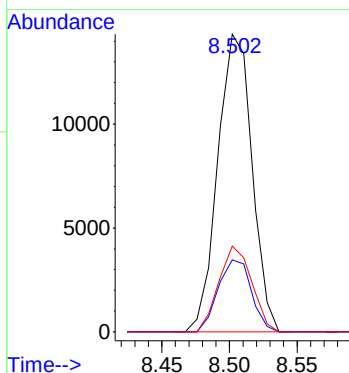
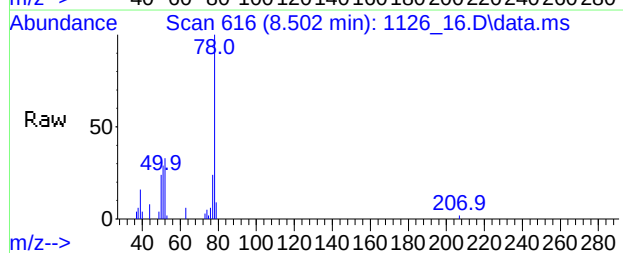
Tgt Ion: 83 Resp: 28237
Ion Ratio Lower Upper
83 100
85 64.8 44.4 84.4
47 36.2 7.4 47.4





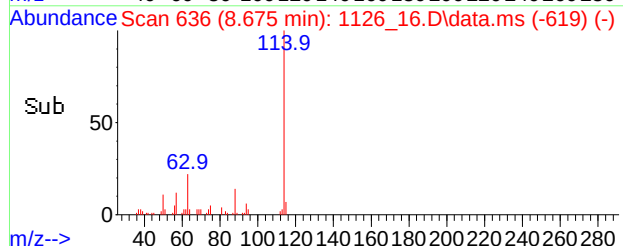
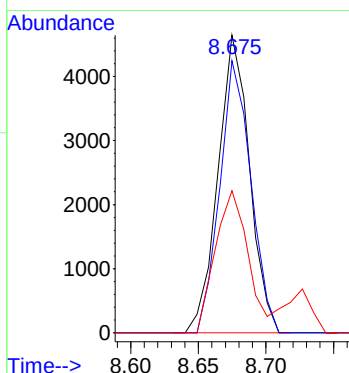
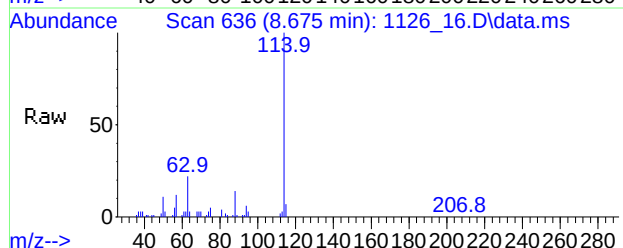
#34
Benzene
Conc: 8\$ 0.479 ppbv
RT: 8.502 min Scan# 616
Delta R.T. 0.000 min
Lab File: 1126_16.D
Acq: 27 Nov 2024 12:22 am

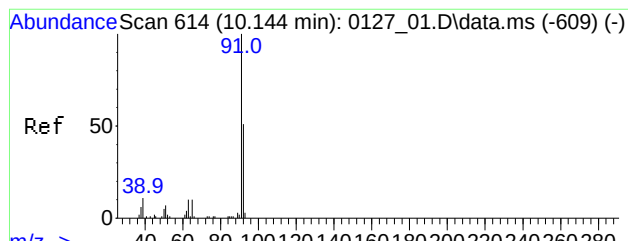
Tgt Ion: 78	Resp: 25239
Ion Ratio	Lower Upper
78 100	
77 23.5	18.8 28.2
51 27.6	18.1 27.1#



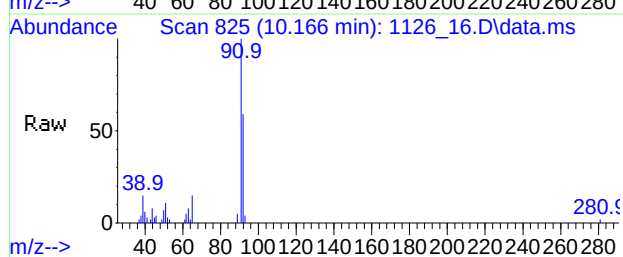
#36
Cyclohexane
Conc: 8\$ 0.363 ppbv
RT: 8.675 min Scan# 636
Delta R.T. 0.000 min
Lab File: 1126_16.D
Acq: 27 Nov 2024 12:22 am

Tgt Ion: 84	Resp: 7521
Ion Ratio	Lower Upper
84 100	
55 89.9	63.1 94.7
42 49.6	33.3 49.9

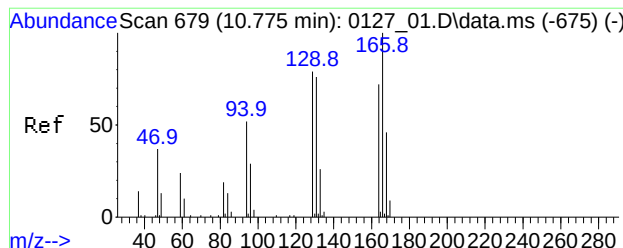
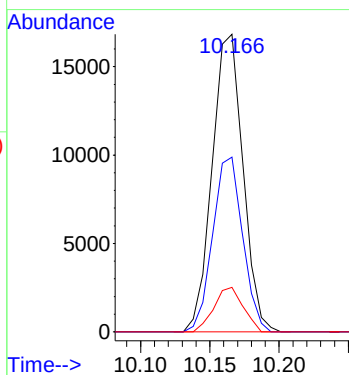
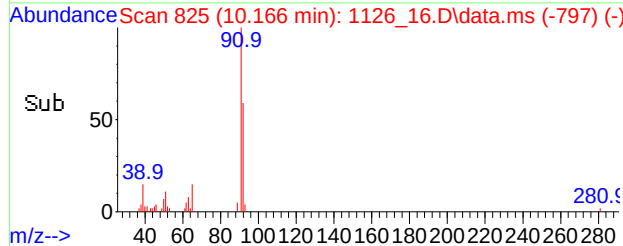




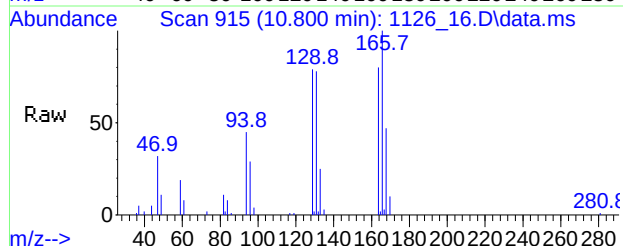
#49
Toluene
Conc: 8\$ 0.399 ppbv
RT: 10.166 min Scan# 825
Delta R.T. 0.000 min
Lab File: 1126_16.D
Acq: 27 Nov 2024 12:22 am



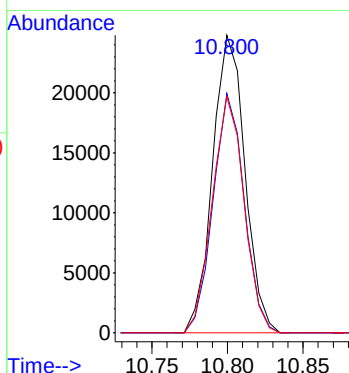
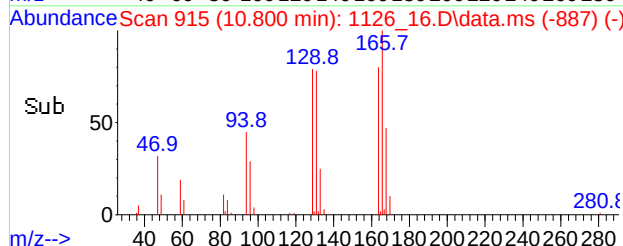
Tgt Ion: 91 Resp: 26163
Ion Ratio Lower Upper
91 100
92 57.0 45.0 67.4
65 14.2 9.4 14.2#

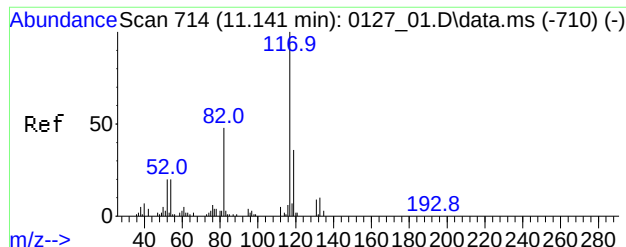


#53
Tetrachloroethene
Conc: 8\$ 0.913 ppbv
RT: 10.800 min Scan# 915
Delta R.T. 0.000 min
Lab File: 1126_16.D
Acq: 27 Nov 2024 12:22 am



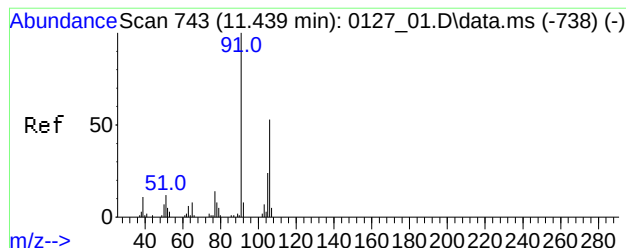
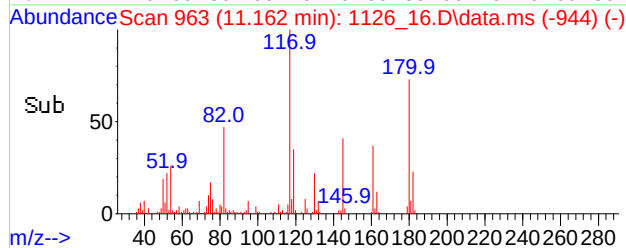
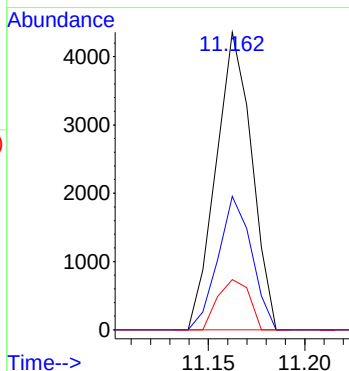
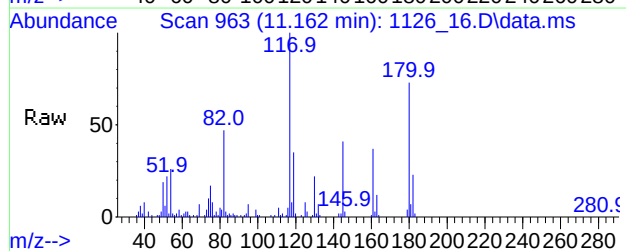
Tgt Ion: 166 Resp: 36963
Ion Ratio Lower Upper
166 100
164 77.3 64.7 97.1
129 77.6 62.2 93.2





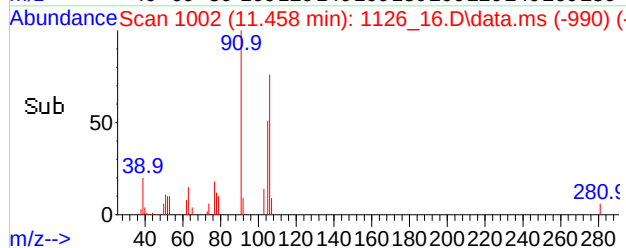
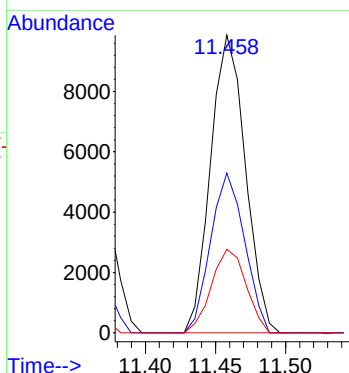
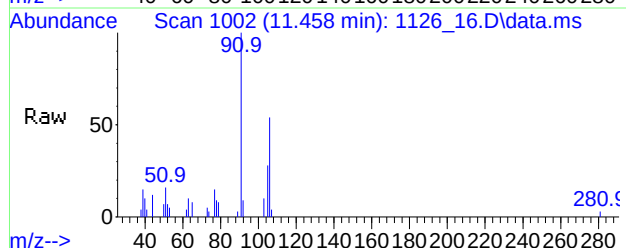
#55
1,1,1,2-Tetrachloroethane
Conc: 8\$ 0.166 ppbv
RT: 11.162 min Scan# 963
Delta R.T. 0.000 min
Lab File: 1126_16.D
Acq: 27 Nov 2024 12:22 am

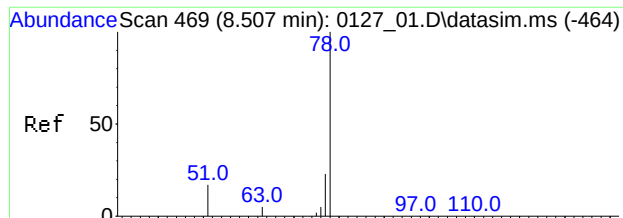
Tgt Ion: 131 Resp: 5615
Ion Ratio Lower Upper
131 100
133 42.3 77.5 116.3#
135 14.9 24.1 36.1#



#58
m,p-Xylene
Conc: 8\$ 0.287 ppbv
RT: 11.458 min Scan# 1002
Delta R.T. -0.007 min
Lab File: 1126_16.D
Acq: 27 Nov 2024 12:22 am

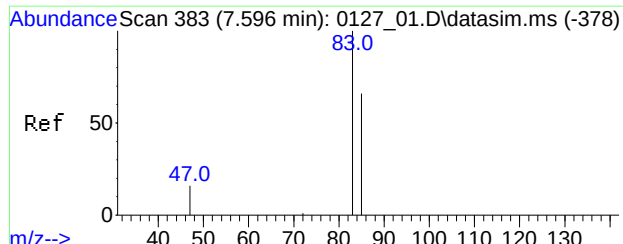
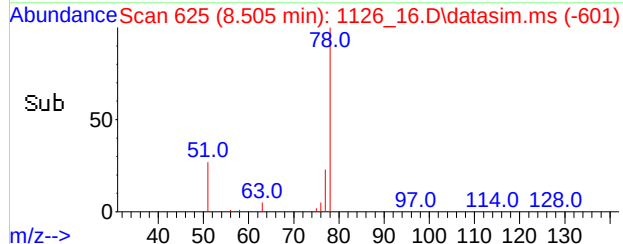
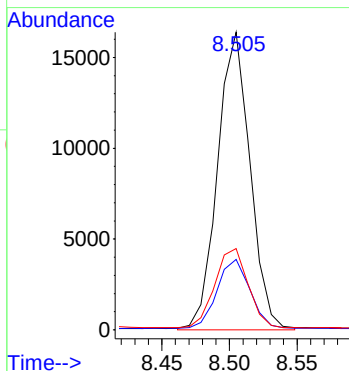
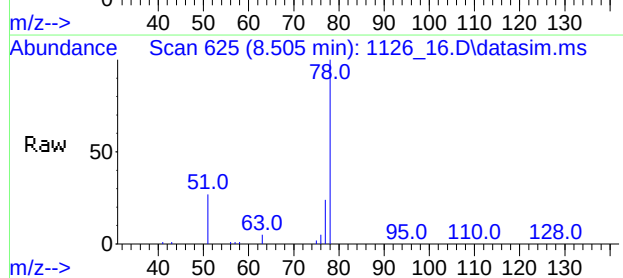
Tgt Ion: 91 Resp: 17048
Ion Ratio Lower Upper
91 100
106 52.4 41.1 61.7
105 28.0 19.5 29.3





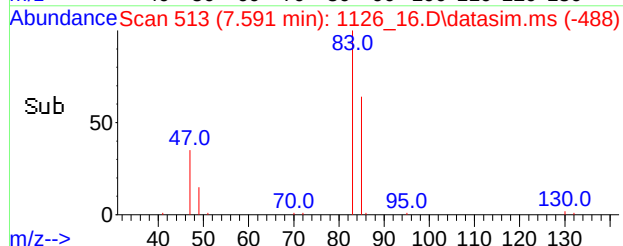
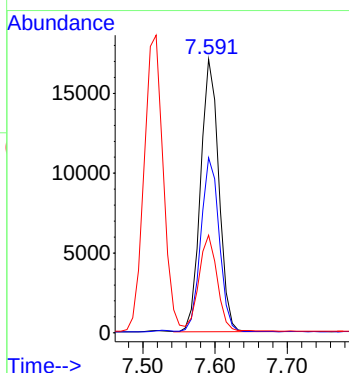
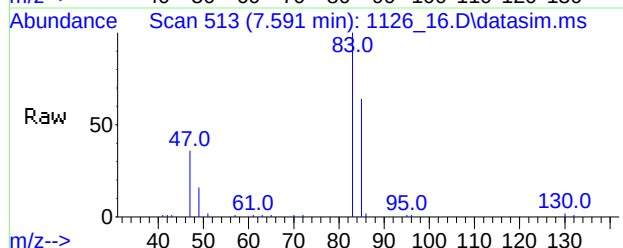
#88
Benzene(sim)
Conc: 8\$ 0.432 ppbv
RT: 8.502 min Scan# 625
Delta R.T. 0.000 min
Lab File: 1126_16.D
Acq: 27 Nov 2024 12:22 am

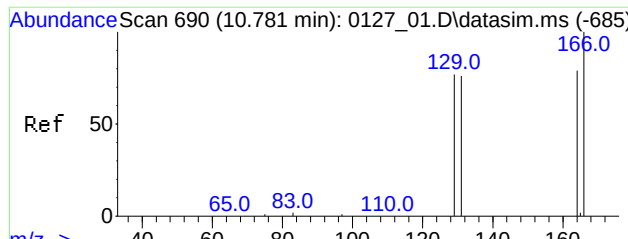
Tgt Ion: 78 Resp: 25239
Ion Ratio Lower Upper
78 100
77 23.5 18.8 28.2
51 27.6 18.1 27.1#



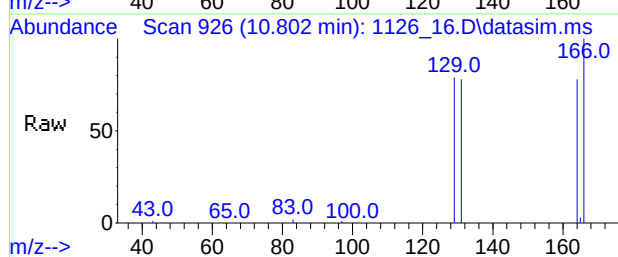
#95
Chloroform(sim)
Conc: 8\$ 0.697 ppbv
RT: 7.591 min Scan# 513
Delta R.T. 0.000 min
Lab File: 1126_16.D
Acq: 27 Nov 2024 12:22 am

Tgt Ion: 83 Resp: 29929
Ion Ratio Lower Upper
83 100
85 64.4 51.6 77.4
47 35.3 23.0 34.4#

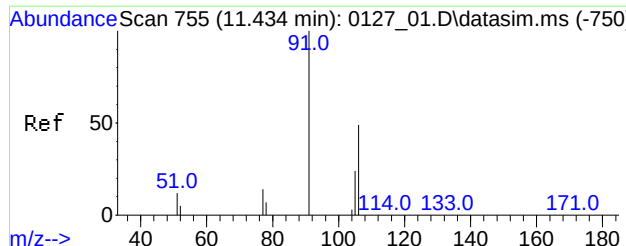
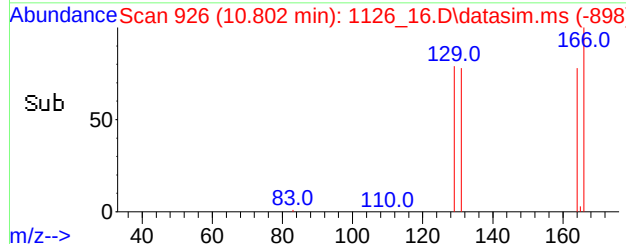
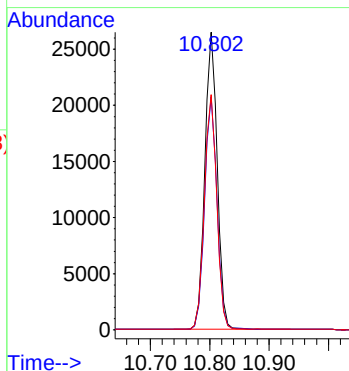




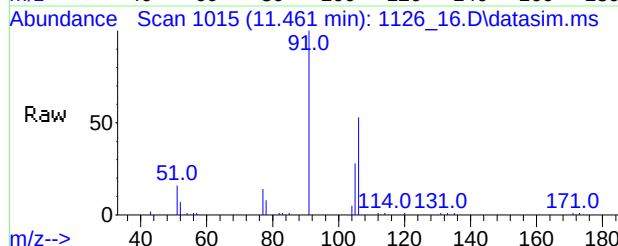
#105
Tetrachloroethene(sim)
Conc: 8\$ 0.888 ppbv
RT: 10.802 min Scan# 926
Delta R.T. 0.000 min
Lab File: 1126_16.D
Acq: 27 Nov 2024 12:22 am



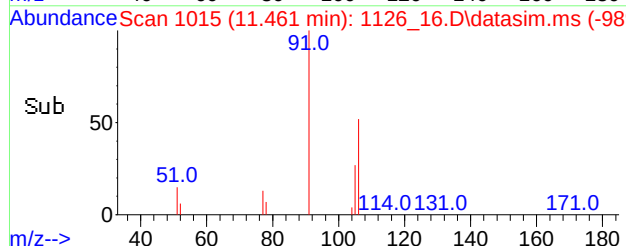
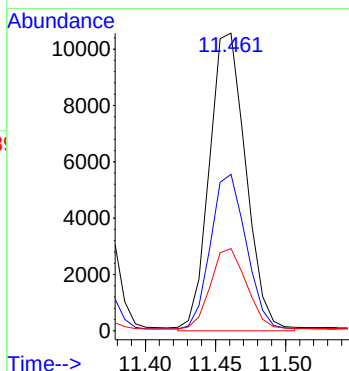
Tgt Ion: 166 Resp: 38390
Ion Ratio Lower Upper
166 100
164 78.4 58.0 98.0
129 79.1 58.0 98.0



#108
m,p-Xylene(sim)
Conc: 8\$ 0.236 ppbv
RT: 11.458 min Scan# 1015
Delta R.T. -0.008 min
Lab File: 1126_16.D
Acq: 27 Nov 2024 12:22 am



Tgt Ion: 91 Resp: 17048
Ion Ratio Lower Upper
91 100
106 52.4 46.3 56.5
105 28.0 19.5 29.3



1
AIR ANALYSIS DATA SHEET

CLIENT ID

Client: AMC-ENG Lab: Phoenix Env. Labs

SS-1 5X

SDG No.: GCS16244

Lab Sample ID: CS16247 5X

Canister: 480

Lab File ID: 1126_17.D

Instrument: CHEM24 Column: RTX-1

Date Received: 11/26/24

Purge Volume 200 (cc)

Date Analyzed: 11/27/24

Matrix: AIR

Dilution Factor: 5

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
115-07-1	Propylene	2.91	U	2.91	2.91	r
75-71-8	Dichlorodifluoromethane	1.01	U	1.01	1.01	r
74-87-3	Chloromethane	2.42	U	2.42	2.42	r
106-99-0	1,3-Butadiene	2.26	U	2.26	2.26	r
75-00-3	Chloroethane	1.90	U	1.90	1.90	r
64-17-5	Ethanol	111	S	2.66	2.66	r
67-64-1	Acetone	433	ES	2.11	2.11	r
67-63-0	Isopropylalcohol	8.48	S	2.04	2.04	r
107-13-1	Acrylonitrile	2.31	U	2.31	2.31	r
75-09-2	Methylene Chloride	4.32	U	4.32	4.32	r
75-15-0	Carbon Disulfide	6.35		1.61	1.61	r
1634-04-4	Methyl tert-butyl ether(MTBE)	1.39	U	1.39	1.39	r
78-93-3	Methyl Ethyl Ketone	1.70	U	1.70	1.70	r
110-54-3	Hexane	2.96	S	1.42	1.42	r
67-66-3	Chloroform	6.72		1.02	1.02	r
141-78-6	Ethyl acetate	1.39	U	1.39	1.39	r
109-99-9	Tetrahydrofuran	1.70	U	1.70	1.70	r
71-43-2	Benzene	3.19		1.57	1.57	r
110-82-7	Cyclohexane	1.94		1.45	1.45	r
540-84-1	2,2,4-trimethylpentane	1.07	U	1.07	1.07	r
142-82-5	Heptane	1.27		1.22	1.22	r
108-10-1	4-Methyl-2-pentanone(MIBK)	1.22	U	1.22	1.22	r
10061-02-6	trans-1,3-Dichloropropene	1.10	U	1.10	1.10	r
108-88-3	Toluene	2.14		1.33	1.33	r
591-78-6	2-Hexanone(MBK)	1.22	U	1.22	1.22	r
127-18-4	Tetrachloroethene	44.1		0.184	0.184	r
630-20-6	1,1,1,2-Tetrachloroethane	0.729	U	0.729	0.729	r
108-90-7	Chlorobenzene	1.09	U	1.09	1.09	r
100-41-4	Ethylbenzene	1.15	U	1.15	1.15	r
100-42-5	Styrene	1.17	U	1.17	1.17	r
95-47-6	o-Xylene	1.15	U	1.15	1.15	r
98-82-8	Isopropylbenzene	1.02	U	1.02	1.02	r
622-96-8	4-Ethyltoluene	1.02	U	1.02	1.02	r
108-67-8	1,3,5-Trimethylbenzene	1.02	U	1.02	1.02	r
95-63-6	1,2,4-Trimethylbenzene	1.02	U	1.02	1.02	r
91-20-3	Naphthalene	1.00	U	1.00	1.00	r

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

1
AIR ANALYSIS DATA SHEET

CLIENT ID

Client:	<u>AMC-ENG</u>	Lab:	<u>Phoenix Env. Labs</u>	SS-1 5X
SDG No.:	<u>GCS16244</u>	Lab Sample ID:	<u>CS16247 5X</u>	
Canister:	<u>480</u>	Lab File ID:	<u>1126_17.D</u>	
Instrument:	<u>CHEM24</u>	Column:	<u>RTX-1</u>	Date Received:
				<u>11/26/24</u>
Purge Volume	<u>200</u>	(cc)	Date Analyzed:	<u>11/27/24</u>
Matrix:	<u>AIR</u>	Dilution Factor:	<u>5</u>	

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
76-14-2	1,2-Dichlorotetrafluoroethane(sim)	0.716	U	0.716	0.716	r
75-01-4	Vinyl Chloride(sim)	0.390	U	0.390	0.390	r
74-83-9	Bromomethane(sim)	1.29	U	1.29	1.29	r
75-69-4	Trichlorofluoromethane(sim)	0.891	U	0.891	0.891	r
107-06-2	1,2-Dichloroethane(sim)	1.24	U	1.24	1.24	r
71-55-6	1,1,1-Trichloroethane(sim)	0.917	U	0.917	0.917	r
56-23-5	Carbon Tetrachloride(sim)	0.159	U	0.159	0.159	r
75-35-4	1,1-Dichloroethene(sim)	0.252	U	0.252	0.252	r
76-13-1	Trichlorotrifluoroethane(sim)	0.653	U	0.653	0.653	r
156-60-5	Trans-1,2-Dichloroethene(sim)	1.26	U	1.26	1.26	r
75-34-3	1,1-Dichloroethane(sim)	1.24	U	1.24	1.24	r
156-59-2	Cis-1,2-Dichloroethene(sim)	0.252	U	0.252	0.252	r
78-87-5	1,2-dichloropropane(sim)	1.08	U	1.08	1.08	r
75-27-4	Bromodichloromethane(sim)	0.747	U	0.747	0.747	r
79-01-6	Trichloroethene(sim)	0.185	U	0.185	0.185	r
123-91-1	1,4-Dioxane(sim)	1.39	U	1.39	1.39	r
10061-01-5	cis-1,3-Dichloropropene(sim)	1.10	U	1.10	1.10	r
79-00-5	1,1,2-Trichloroethane(sim)	0.917	U	0.917	0.917	r
124-48-1	Dibromochloromethane(sim)	0.587	U	0.587	0.587	r
106-93-4	1,2-Dibromoethane(EDB)(sim)	0.651	U	0.651	0.651	r
75-25-2	Bromoform(sim)	0.484	U	0.484	0.484	r
179601-23-1	m,p-Xylene(sim)	1.24		1.15	1.15	r
79-34-5	1,1,2,2-Tetrachloroethane(sim)	0.729	U	0.729	0.729	r
100-44-7	Benzyl chloride(sim)	0.966	U	0.966	0.966	r
541-73-1	1,3-Dichlorobenzene(sim)	0.832	U	0.832	0.832	r
106-46-7	1,4-Dichlorobenzene(sim)	0.832	U	0.832	0.832	r
135-98-8	sec-Butylbenzene(sim)	0.911	U	0.911	0.911	r
99-87-6	4-Isopropyltoluene(sim)	0.911	U	0.911	0.911	r
95-50-1	1,2-Dichlorobenzene(sim)	0.832	U	0.832	0.832	r
104-51-8	n-Butylbenzene(sim)	0.911	U	0.911	0.911	r
120-82-1	1,2,4-Trichlorobenzene(sim)	0.674	U	0.674	0.674	r
87-68-3	Hexachlorobutadiene(sim)	0.469	U	0.469	0.469	r

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

Data Path : H:\AIR2024\CHEM24\11NOV\26\
 Data File : 1126_17.D
 Acq On : 27 Nov 2024 12:59 am
 Operator : Keith
 Client ID : SS-1 5X
 Lab ID : CS16247 5X
 ALS Vial : 17 Sample Multiplier: 1

Quant Time: Nov 27 08:49:39 2024
 Quant Method : H:\AIR2024\CHEM24\Methods\24_AIR_1018.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Mon Oct 21 10:04:28 2024
 Response via : Initial Calibration

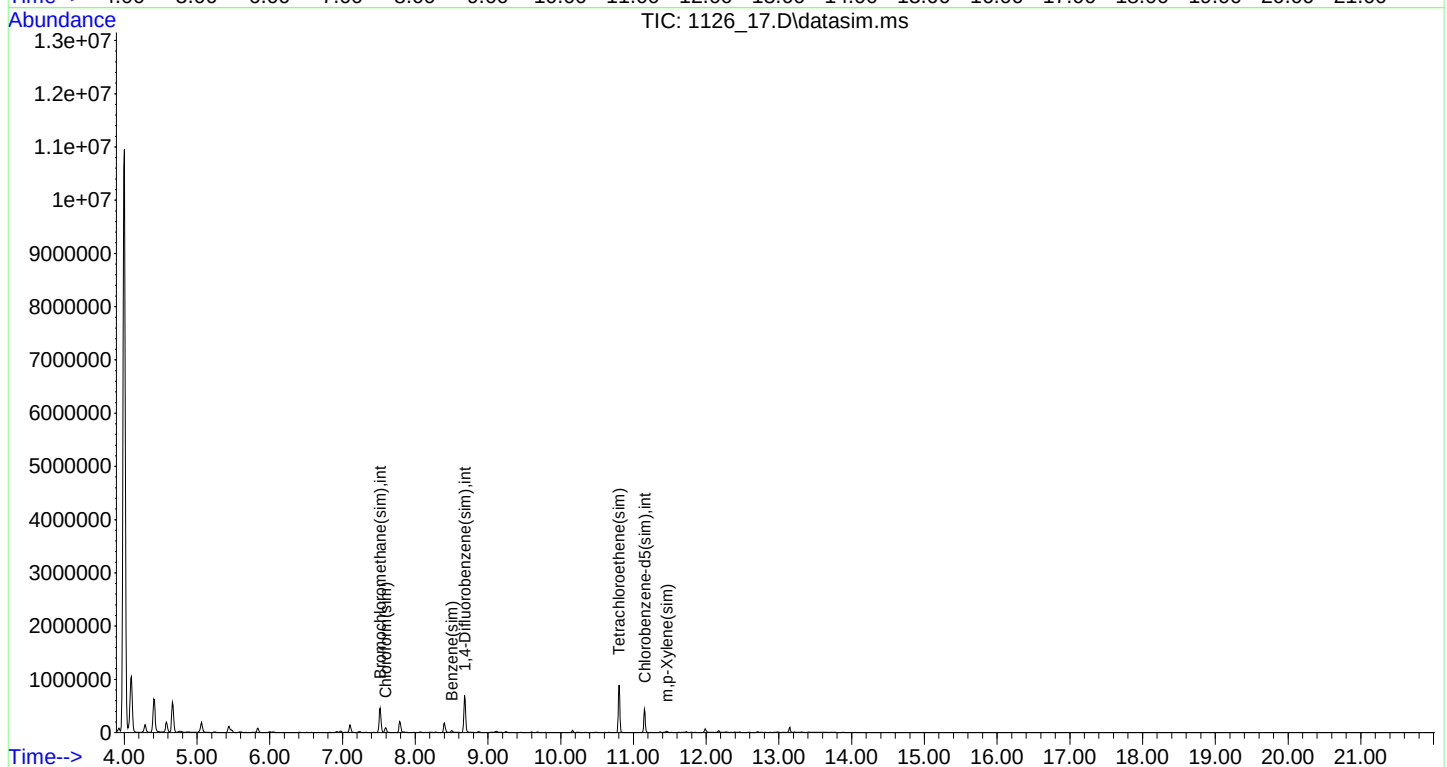
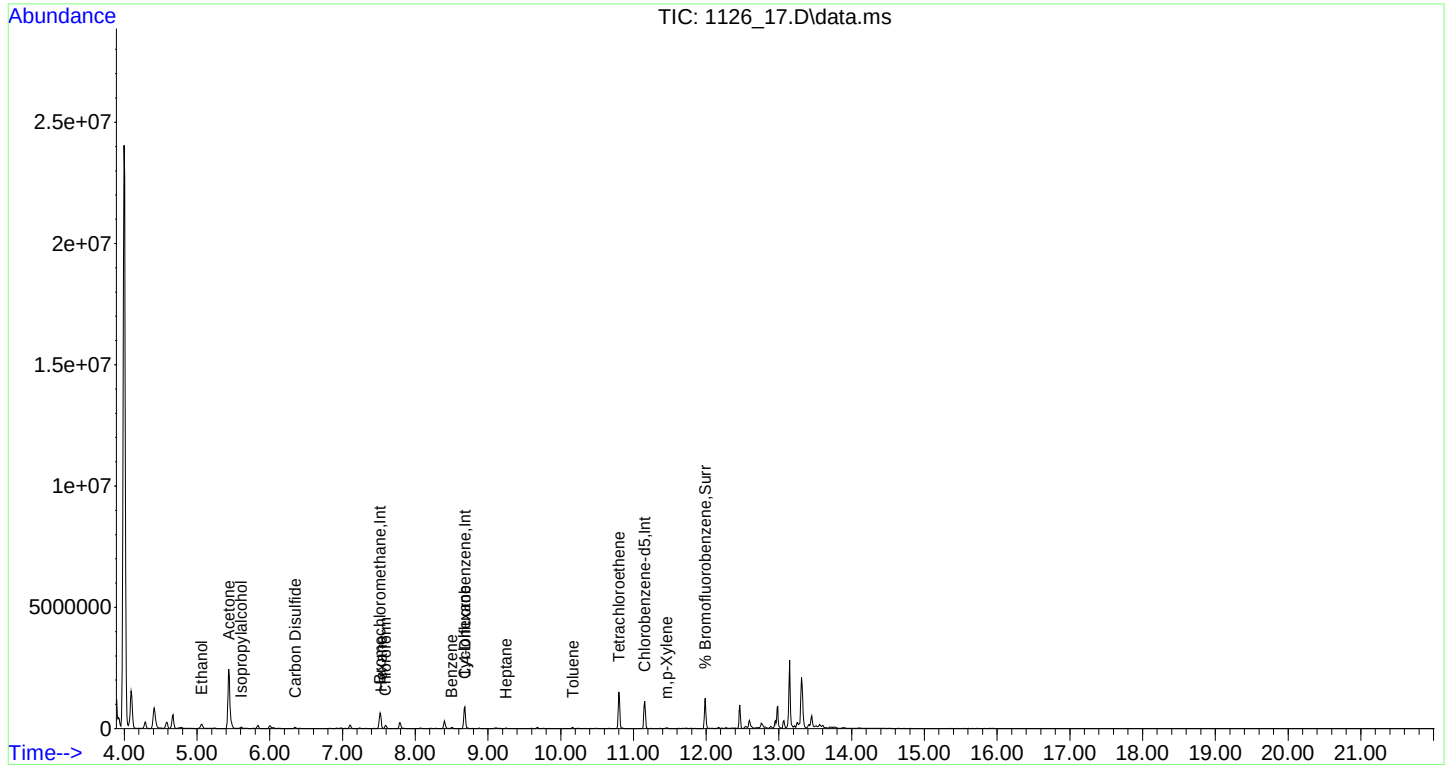
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

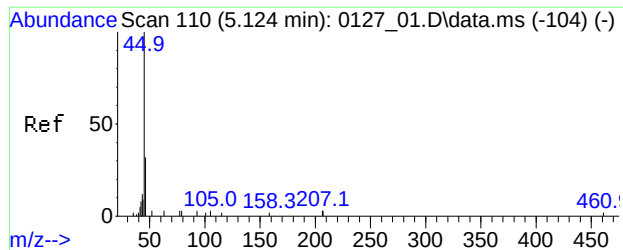
Internal Standards						
1) Bromochloromethane	7.515	130	183700	10.000	ng	0.00
37) 1,4-Difluorobenzene	8.684	114	607439	10.000	ng	0.00
54) Chlorobenzene-d5	11.155	82	253765	10.000	ng	0.00
81) Bromochloromethane(sim)	7.518	130	189838	10.000	ng	# 0.00
96) 1,4-Difluorobenzene(sim)	8.684	114	607439	10.000	ng	0.00
106) Chlorobenzene-d5(sim)	11.155	82	253765	10.000	ng	# 0.00
System Monitoring Compounds						
63) % Bromofluorobenzene	11.989	95	322575	9.823	ppbv	0.00
Spiked Amount	10.000	Range 70 - 130	Recovery	=	98.20%	
Target Compounds						
					Qvalue	
11) Ethanol	5.065	45	236713	22.176	ppbv#	92
12) Acetone	5.437	43	3146653	86.695	ppbv	92
14) Isopropylalcohol	5.609	45	76466	1.695	ppbv#	86
20) Carbon Disulfide	6.350	76	62430	1.270	ppbv	99
28) Hexane	7.531	57	19828	0.592	ppbv	83
29) Chloroform	7.588	83	52324	1.343	ppbv#	82
34) Benzene	8.502	78	32934	0.637	ppbv#	92
36) Cyclohexane	8.675	84	7876	0.387	ppbv#	76
44) Heptane	9.246	43	10992	0.253	ppbv#	78
49) Toluene	10.166	91	28449	0.428	ppbv	98
53) Tetrachloroethene	10.799	166	361959	8.817	ppbv	98
58) m,p-Xylene	11.458	91	17443	0.300	ppbv	95
85] Trichlorofluoromethane...	5.587	101	9820	0.176	ppbv#	98
88] Benzene(sim)	8.502	78	32934	0.572	ppbv#	92
95] Chloroform(sim)	7.591	83	54252	1.283	ppbv#	83
105] Tetrachloroethene(sim)	10.802	166	376665	8.588	ppbv	99
108] m,p-Xylene(sim)	11.458	91	17443	0.247	ppbv	95

(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Data Path : H:\AIR2024\CHEM24\11NOV\26\
Data File : 1126_17.D
Acq On : 27 Nov 2024 12:59 am
Operator : Keith
Client ID : SS-1 5X
Lab ID : CS16247 5X
ALS Vial : 17 Sample Multiplier: 1

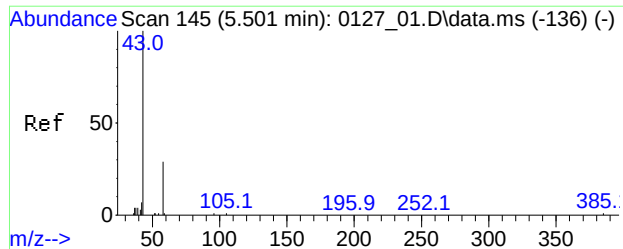
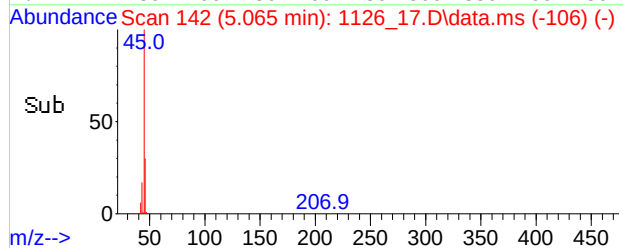
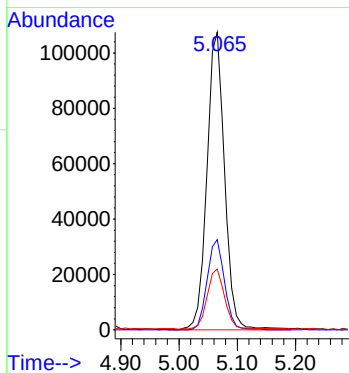
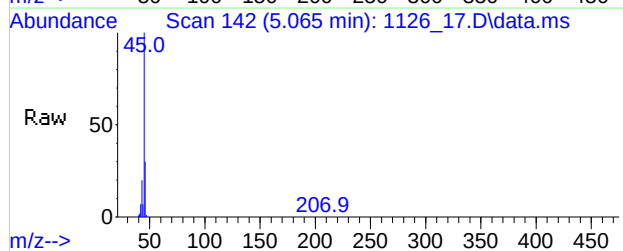
Quant Time: Nov 27 08:49:39 2024
Quant Method : H:\AIR2024\CHEM24\Methods\24_AIR_1018.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Mon Oct 21 10:04:28 2024
Response via : Initial Calibration





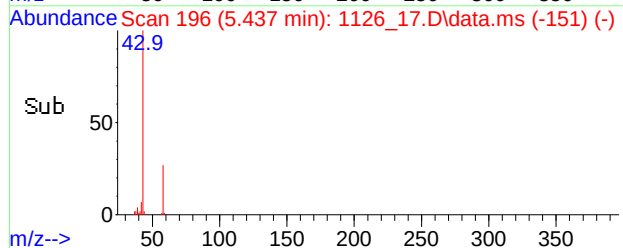
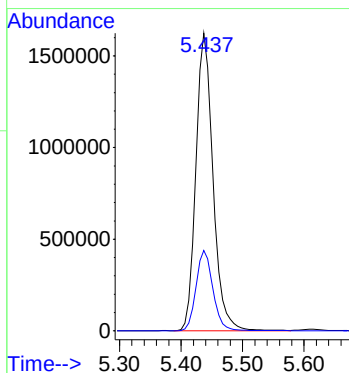
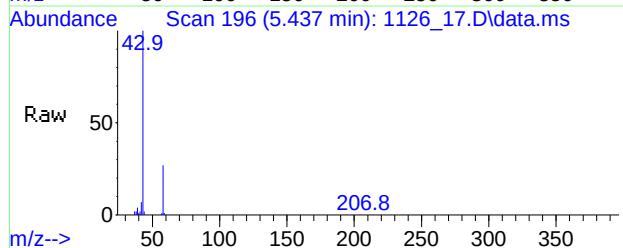
#11
Ethanol
Conc: 8\$ 22.176 ppbv
RT: 5.065 min Scan# 142
Delta R.T. 0.000 min
Lab File: 1126_17.D
Acq: 27 Nov 2024 12:59 am

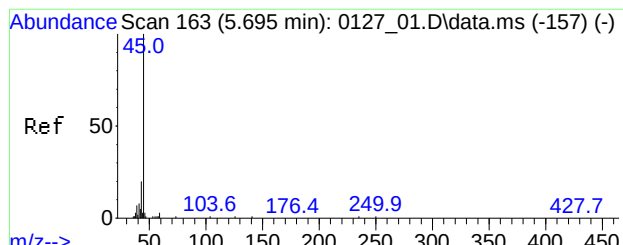
Tgt Ion: 45 Resp: 236713
Ion Ratio Lower Upper
45 100
46 28.4 25.0 37.6
43 19.0 20.0 30.0#



#12
Acetone
Conc: 8\$ 86.695 ppbv
RT: 5.437 min Scan# 196
Delta R.T. -0.006 min
Lab File: 1126_17.D
Acq: 27 Nov 2024 12:59 am

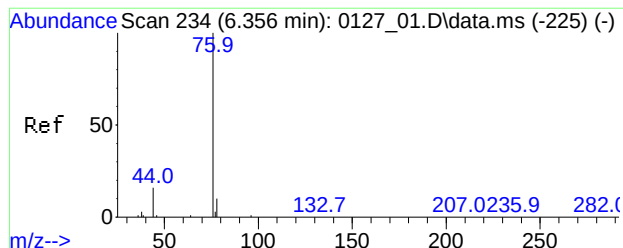
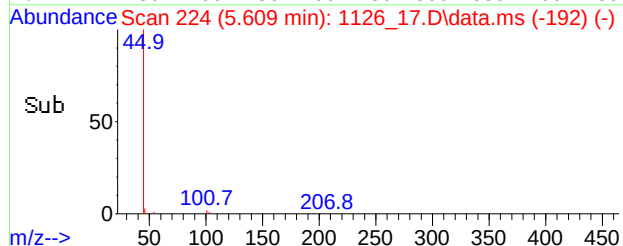
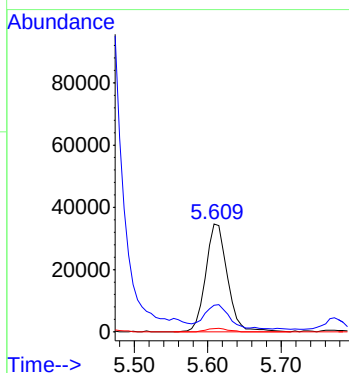
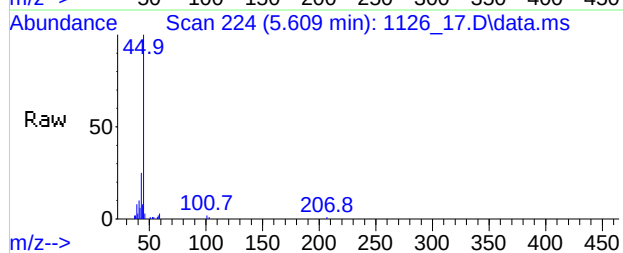
Tgt Ion: 43 Resp: 3146653
Ion Ratio Lower Upper
43 100
58 26.6 24.6 37.0





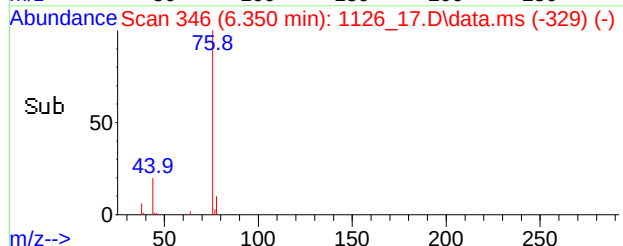
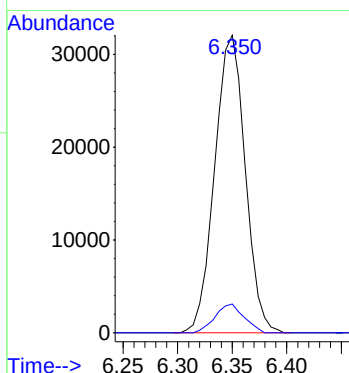
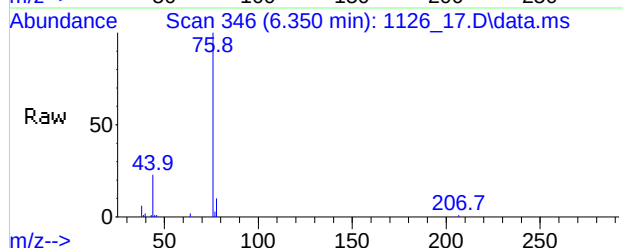
#14
Isopropylalcohol
Conc: 8\$ 1.695 ppbv
RT: 5.609 min Scan# 224
Delta R.T. -0.006 min
Lab File: 1126_17.D
Acq: 27 Nov 2024 12:59 am

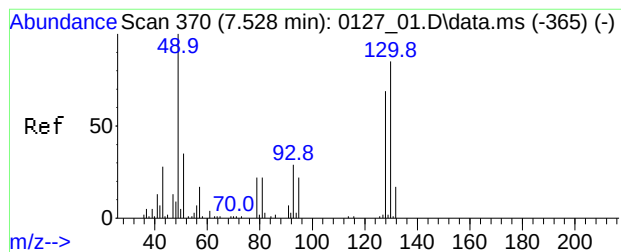
Tgt Ion: 45 Resp: 76466
Ion Ratio Lower Upper
45 100
43 23.7 13.3 19.9#
59 3.0 2.6 4.0



#20
Carbon Disulfide
Conc: 8\$ 1.270 ppbv
RT: 6.350 min Scan# 346
Delta R.T. 0.000 min
Lab File: 1126_17.D
Acq: 27 Nov 2024 12:59 am

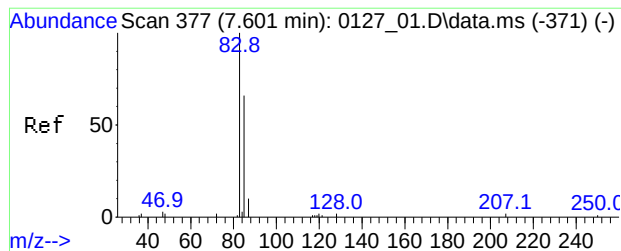
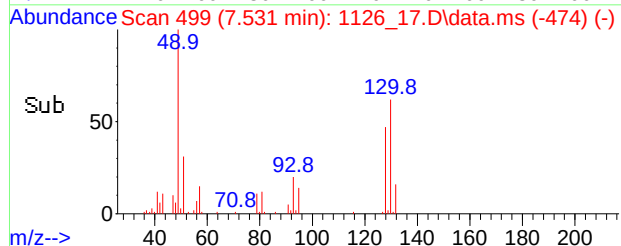
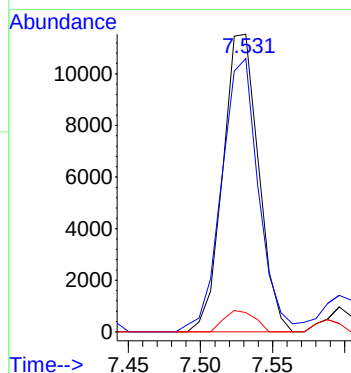
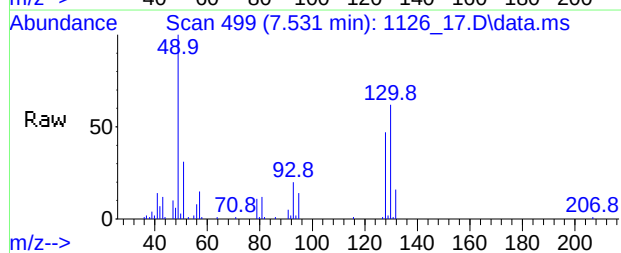
Tgt Ion: 76 Resp: 62430
Ion Ratio Lower Upper
76 100
78 9.2 7.0 10.6





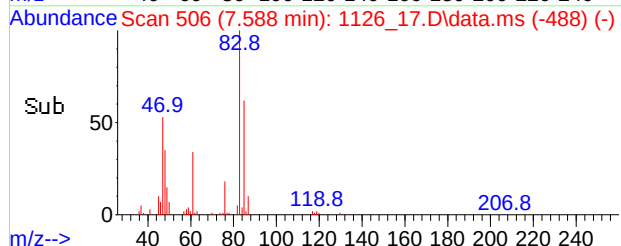
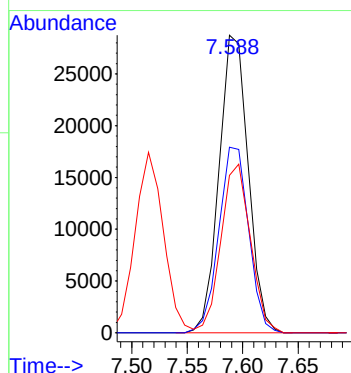
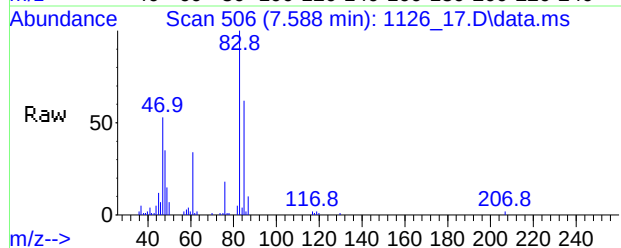
#28
Hexane
Conc: 8\$ 0.592 ppbv
RT: 7.531 min Scan# 499
Delta R.T. 0.000 min
Lab File: 1126_17.D
Acq: 27 Nov 2024 12:59 am

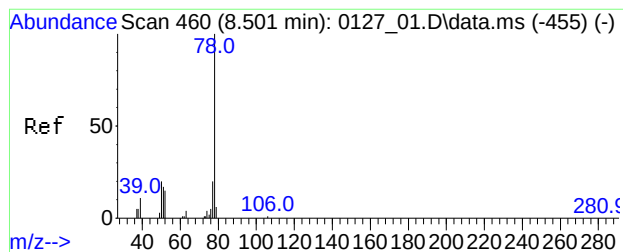
Tgt Ion: 57 Resp: 19828
Ion Ratio Lower Upper
57 100
41 95.0 63.4 95.2
86 6.2 5.8 8.6



#29
Chloroform
Conc: 8\$ 1.343 ppbv
RT: 7.588 min Scan# 506
Delta R.T. -0.008 min
Lab File: 1126_17.D
Acq: 27 Nov 2024 12:59 am

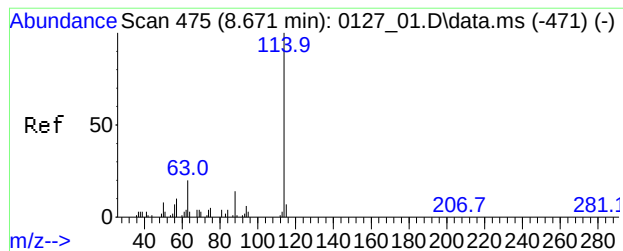
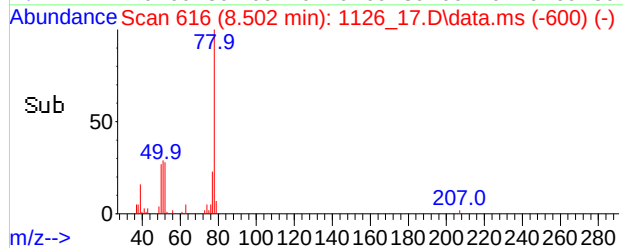
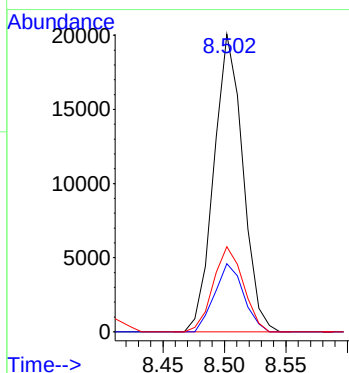
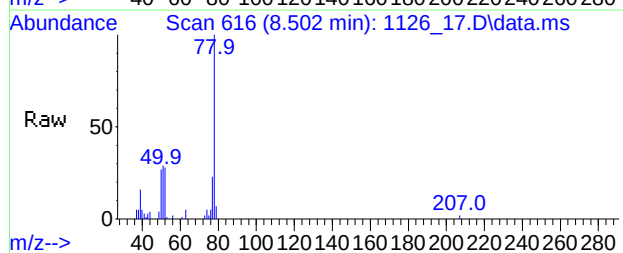
Tgt Ion: 83 Resp: 52324
Ion Ratio Lower Upper
83 100
85 63.8 44.4 84.4
47 57.2 7.4 47.4#





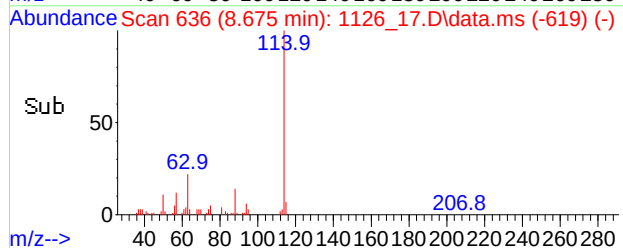
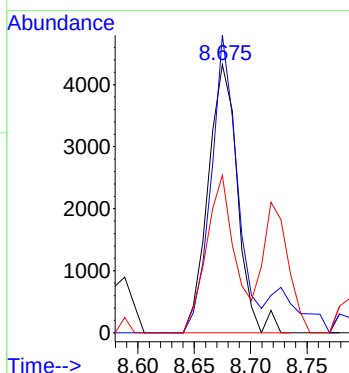
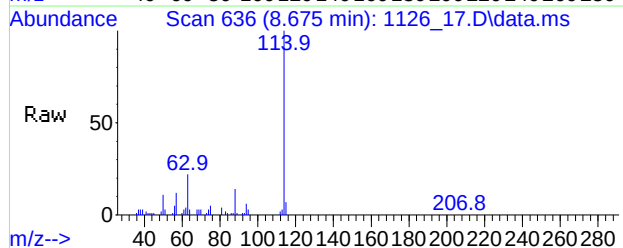
#34
Benzene
Conc: 8\$ 0.637 ppbv
RT: 8.502 min Scan# 616
Delta R.T. 0.000 min
Lab File: 1126_17.D
Acq: 27 Nov 2024 12:59 am

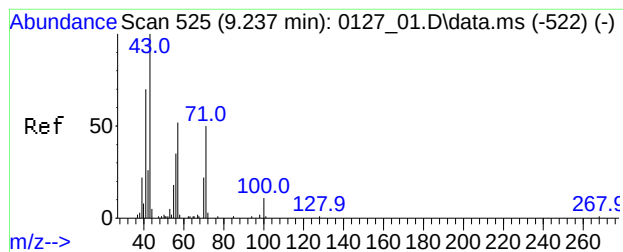
Tgt Ion: 78 Resp: 32934
Ion Ratio Lower Upper
78 100
77 22.9 18.8 28.2
51 29.6 18.1 27.1#



#36
Cyclohexane
Conc: 8\$ 0.387 ppbv
RT: 8.675 min Scan# 636
Delta R.T. 0.000 min
Lab File: 1126_17.D
Acq: 27 Nov 2024 12:59 am

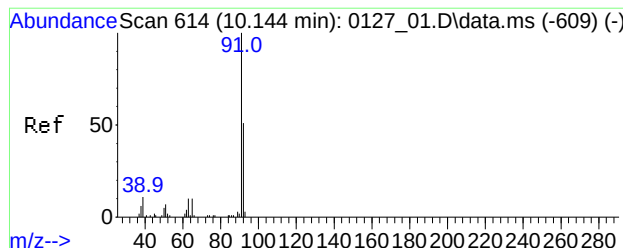
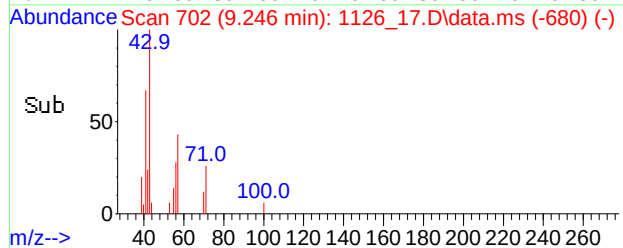
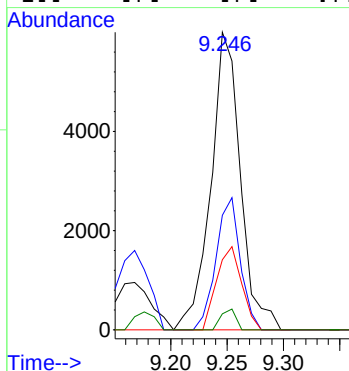
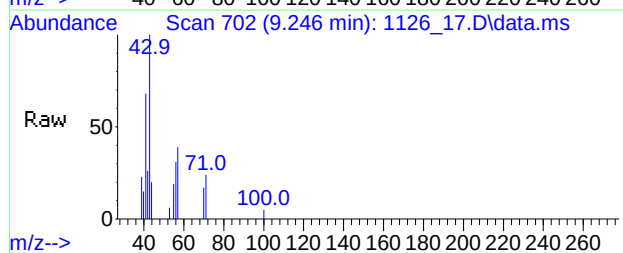
Tgt Ion: 84 Resp: 7876
Ion Ratio Lower Upper
84 100
55 99.0 63.1 94.7#
42 57.3 33.3 49.9#





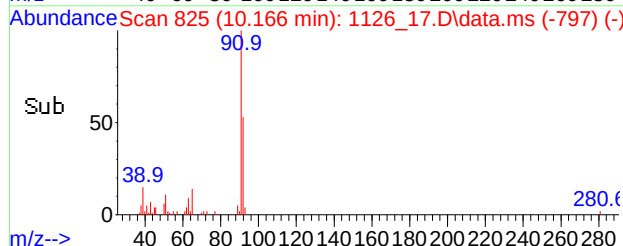
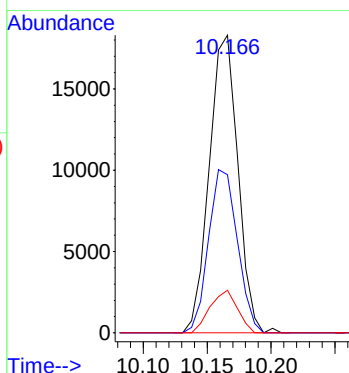
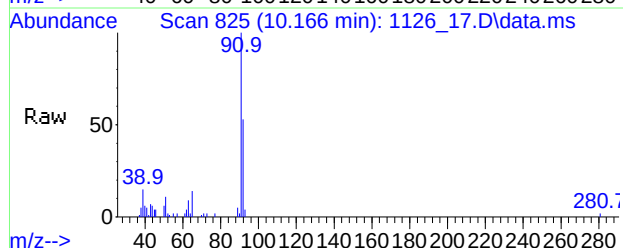
#44
Heptane
Conc: 8\$ 0.253 ppbv
RT: 9.246 min Scan# 702
Delta R.T. -0.009 min
Lab File: 1126_17.D
Acq: 27 Nov 2024 12:59 am

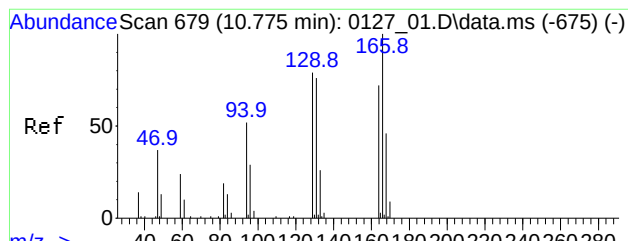
Tgt Ion: 43	Resp: 10992
Ion Ratio	Lower Upper
43 100	
57 36.5	42.4 63.6#
71 23.7	29.4 44.0#
100 3.5	6.5 9.7#



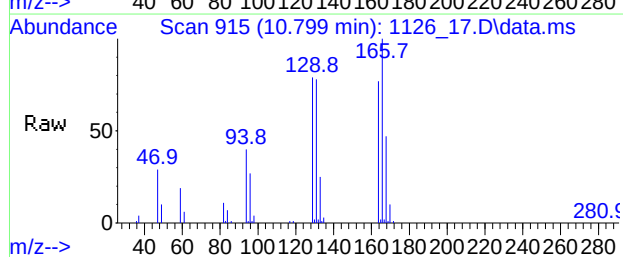
#49
Toluene
Conc: 8\$ 0.428 ppbv
RT: 10.166 min Scan# 825
Delta R.T. 0.000 min
Lab File: 1126_17.D
Acq: 27 Nov 2024 12:59 am

Tgt Ion: 91	Resp: 28449
Ion Ratio	Lower Upper
91 100	
92 55.3	45.0 67.4
65 13.6	9.4 14.2

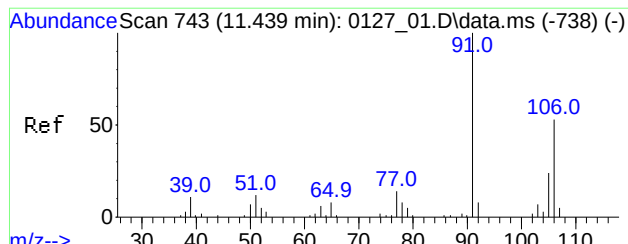
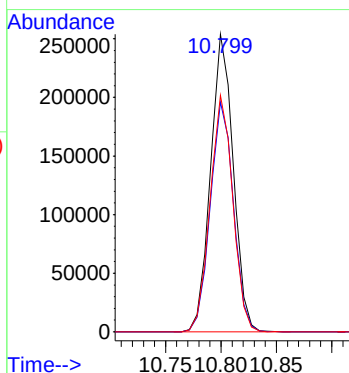
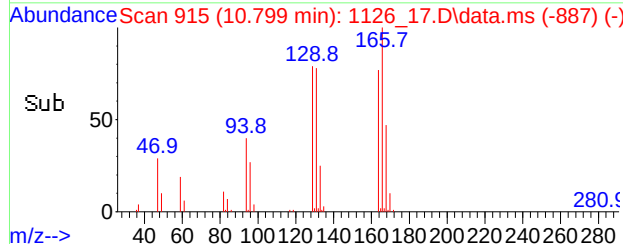




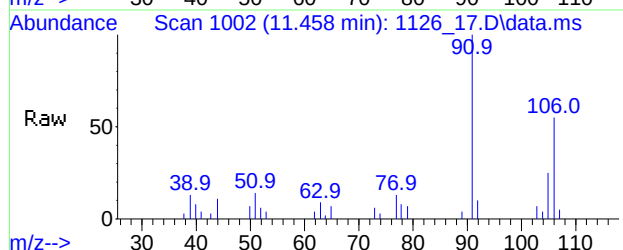
#53
Tetrachloroethene
Conc: 8\$ 8.817 ppbv
RT: 10.799 min Scan# 915
Delta R.T. 0.000 min
Lab File: 1126_17.D
Acq: 27 Nov 2024 12:59 am



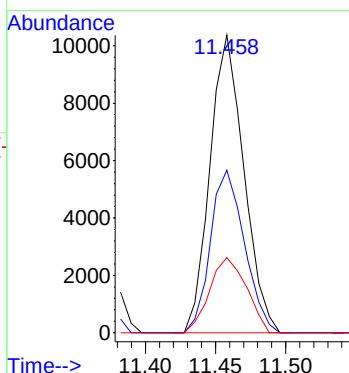
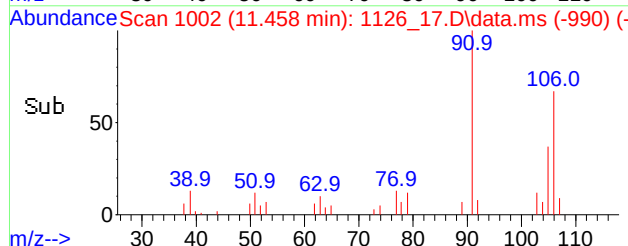
Tgt Ion: 166 Resp: 361959
Ion Ratio Lower Upper
166 100
164 78.6 64.7 97.1
129 79.7 62.2 93.2

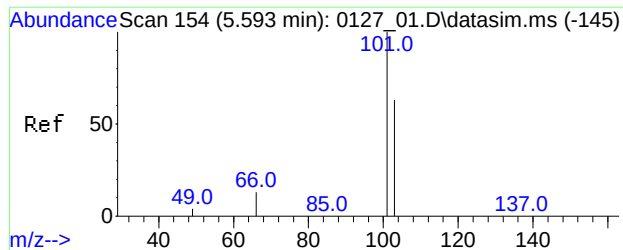


#58
m,p-Xylene
Conc: 8\$ 0.300 ppbv
RT: 11.458 min Scan# 1002
Delta R.T. -0.008 min
Lab File: 1126_17.D
Acq: 27 Nov 2024 12:59 am



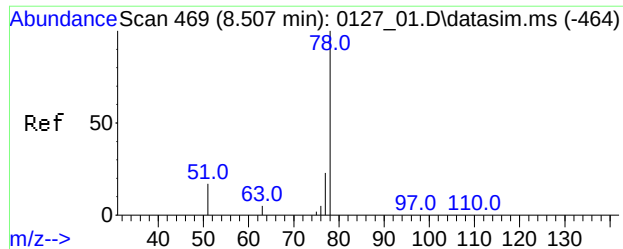
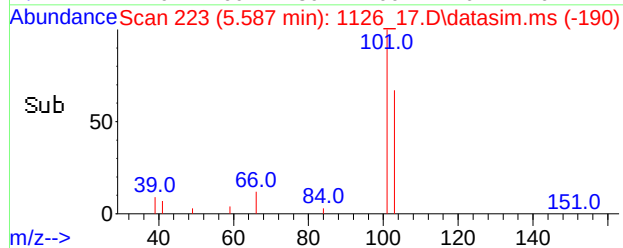
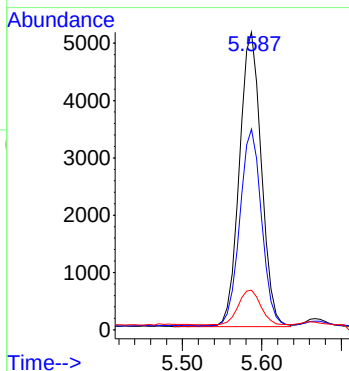
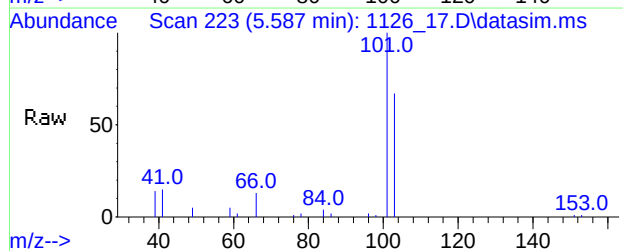
Tgt Ion: 91 Resp: 17443
Ion Ratio Lower Upper
91 100
106 54.9 41.1 61.7
105 27.4 19.5 29.3





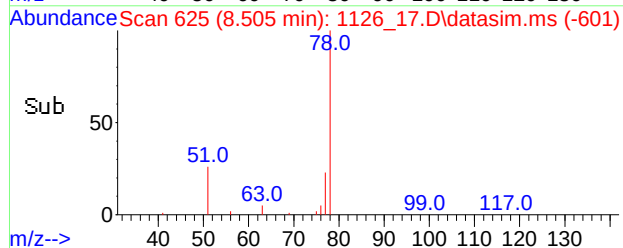
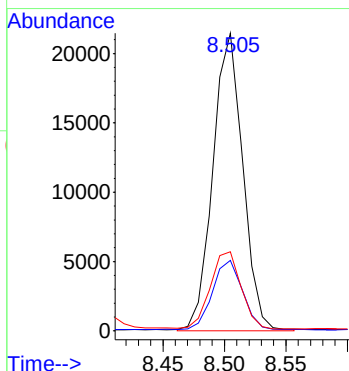
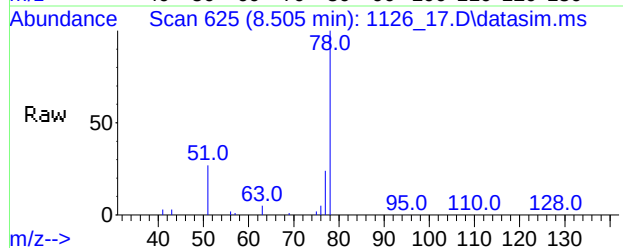
#85
Trichlorofluoromethane(sim)
Conc: 8\$ 0.176 ppbv
RT: 5.587 min Scan# 223
Delta R.T. 0.000 min
Lab File: 1126_17.D
Acq: 27 Nov 2024 12:59 am

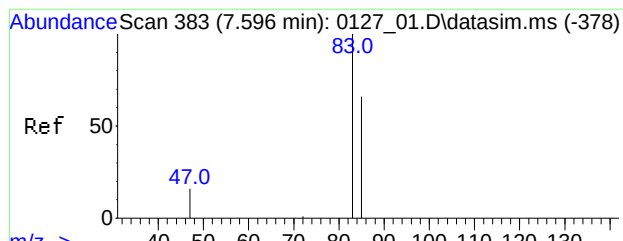
Tgt Ion: 101 Resp: 9820
Ion Ratio Lower Upper
101 100
103 66.4 52.4 78.6
66 13.3 11.4 11.4#



#88
Benzene(sim)
Conc: 8\$ 0.572 ppbv
RT: 8.502 min Scan# 625
Delta R.T. 0.000 min
Lab File: 1126_17.D
Acq: 27 Nov 2024 12:59 am

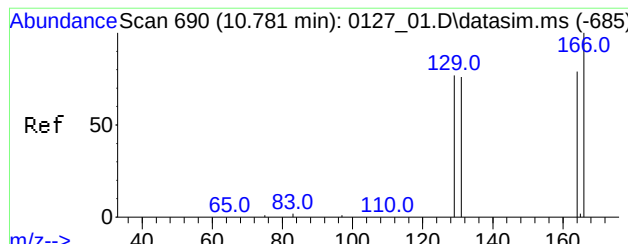
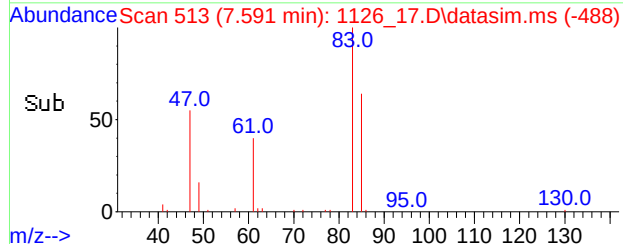
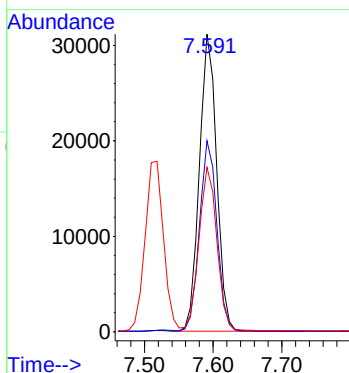
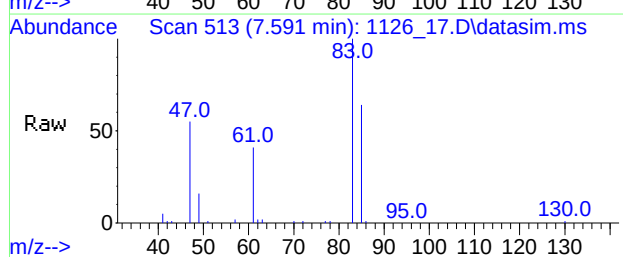
Tgt Ion: 78 Resp: 32934
Ion Ratio Lower Upper
78 100
77 22.9 18.8 28.2
51 29.6 18.1 27.1#





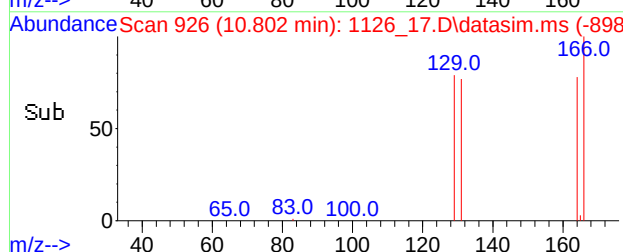
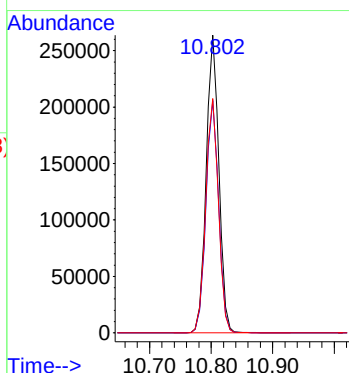
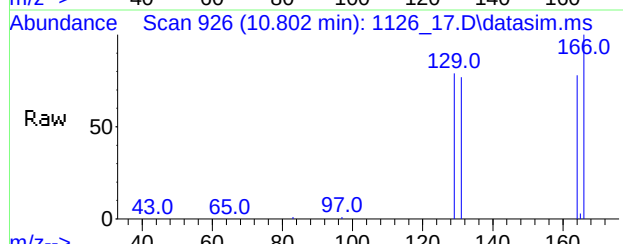
#95
Chloroform(sim)
Conc: 8\$ 1.283 ppbv
RT: 7.591 min Scan# 513
Delta R.T. 0.000 min
Lab File: 1126_17.D
Acq: 27 Nov 2024 12:59 am

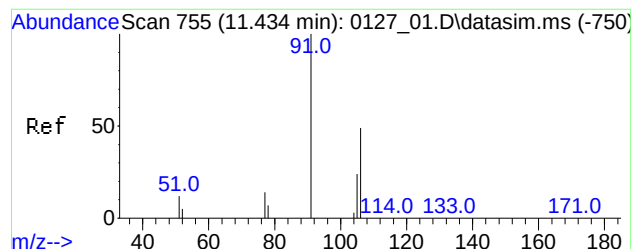
Tgt Ion: 83 Resp: 54252
Ion Ratio Lower Upper
83 100
85 64.6 51.6 77.4
47 57.3 23.0 34.4#



#105
Tetrachloroethene(sim)
Conc: 8\$ 8.588 ppbv
RT: 10.802 min Scan# 926
Delta R.T. 0.000 min
Lab File: 1126_17.D
Acq: 27 Nov 2024 12:59 am

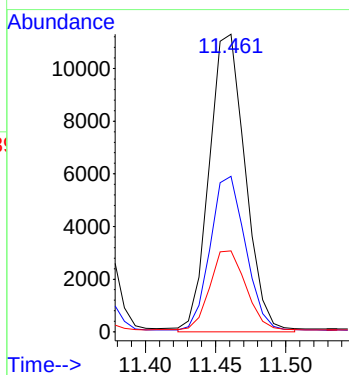
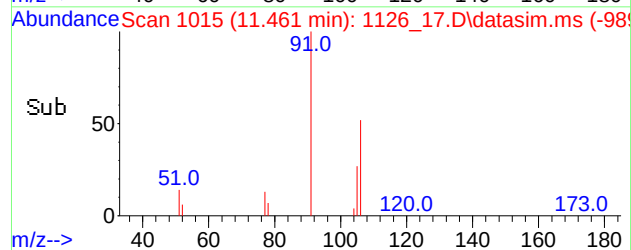
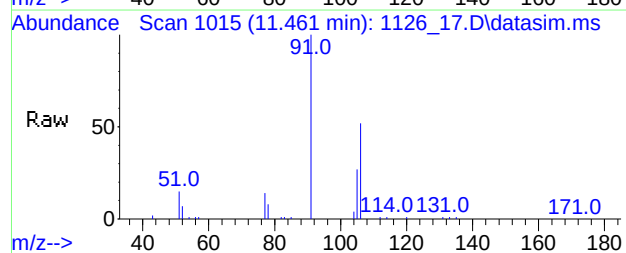
Tgt Ion: 166 Resp: 376665
Ion Ratio Lower Upper
166 100
164 78.4 58.0 98.0
129 79.1 58.0 98.0





#108
 m,p-Xylene(sim)
 Conc: 8\$ 0.247 ppbv
 RT: 11.458 min Scan# 1015
 Delta R.T. -0.008 min
 Lab File: 1126_17.D
 Acq: 27 Nov 2024 12:59 am

Tgt Ion: 91 Resp: 17443
 Ion Ratio Lower Upper
 91 100
 106 54.9 46.3 56.5
 105 27.4 19.5 29.3



1
AIR ANALYSIS DATA SHEET

CLIENT ID

Client:	<u>AMC-ENG</u>	Lab:	<u>Phoenix Env. Labs</u>	IA-4
SDG No.:	<u>GCS16244</u>	Lab Sample ID:	<u>CS16248</u>	
Canister:	<u>455</u>	Lab File ID:	<u>1126_11.D</u>	
Instrument:	<u>CHEM24</u>	Column:	<u>RTX-1</u>	Date Received:
				<u>11/26/24</u>
Purge Volume	<u>200</u>	(cc)		Date Analyzed:
				<u>11/26/24</u>
Matrix:	<u>AIR</u>	Dilution Factor:	<u>1</u>	

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
115-07-1	Propylene	0.581	U	0.581	0.581	r
75-71-8	Dichlorodifluoromethane	0.454		0.202	0.202	r
74-87-3	Chloromethane	0.614		0.485	0.485	r
106-99-0	1,3-Butadiene	0.452	U	0.452	0.452	r
75-00-3	Chloroethane	0.379	U	0.379	0.379	r
64-17-5	Ethanol	22.4	S	0.531	0.531	r
67-64-1	Acetone	11.4	S	0.421	0.421	r
75-69-4	Trichlorofluoromethane	0.211		0.178	0.178	r
67-63-0	Isopropylalcohol	0.817	S	0.407	0.407	r
107-13-1	Acrylonitrile	0.461	U	0.461	0.461	r
75-09-2	Methylene Chloride	0.863	U	0.863	0.863	r
75-15-0	Carbon Disulfide	0.321	U	0.321	0.321	r
1634-04-4	Methyl tert-butyl ether(MTBE)	0.278	U	0.278	0.278	r
78-93-3	Methyl Ethyl Ketone	0.339	U	0.339	0.339	r
110-54-3	Hexane	0.284	U	0.284	0.284	r
141-78-6	Ethyl acetate	0.278	U	0.278	0.278	r
109-99-9	Tetrahydrofuran	0.339	U	0.339	0.339	r
71-43-2	Benzene	0.420		0.313	0.313	r
110-82-7	Cyclohexane	0.291	U	0.291	0.291	r
540-84-1	2,2,4-trimethylpentane	0.215	U	0.215	0.215	r
142-82-5	Heptane	0.244	U	0.244	0.244	r
108-10-1	4-Methyl-2-pentanone(MIBK)	0.244	U	0.244	0.244	r
10061-02-6	trans-1,3-Dichloropropene	0.221	U	0.221	0.221	r
108-88-3	Toluene	0.610		0.266	0.266	r
591-78-6	2-Hexanone(MBK)	0.244	U	0.244	0.244	r
630-20-6	1,1,1,2-Tetrachloroethane	0.146	U	0.146	0.146	r
108-90-7	Chlorobenzene	0.217	U	0.217	0.217	r
100-41-4	Ethylbenzene	0.230	U	0.230	0.230	r
100-42-5	Styrene	0.248		0.235	0.235	r
95-47-6	o-Xylene	0.230	U	0.230	0.230	r
98-82-8	Isopropylbenzene	0.204	U	0.204	0.204	r
622-96-8	4-Ethyltoluene	0.204	U	0.204	0.204	r
108-67-8	1,3,5-Trimethylbenzene	0.204	U	0.204	0.204	r
95-63-6	1,2,4-Trimethylbenzene	0.204	U	0.204	0.204	r
91-20-3	Naphthalene	0.200	U	0.200	0.200	r
76-14-2	1,2-Dichlorotetrafluoroethane(sim)	0.143	U	0.143	0.143	r

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

1
AIR ANALYSIS DATA SHEET

CLIENT ID

Client:	<u>AMC-ENG</u>	Lab:	<u>Phoenix Env. Labs</u>
SDG No.:	<u>GCS16244</u>	Lab Sample ID:	<u>CS16248</u>
Canister:	<u>455</u>	Lab File ID:	<u>1126_11.D</u>
Instrument:	<u>CHEM24</u>	Column:	<u>RTX-1</u>
		Date Received:	<u>11/26/24</u>
Purge Volume	<u>200</u> (cc)	Date Analyzed:	<u>11/26/24</u>
Matrix:	<u>AIR</u>	Dilution Factor:	<u>1</u>

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
75-01-4	Vinyl Chloride(sim)	0.078	U	0.078	0.078	r
74-83-9	Bromomethane(sim)	0.258	U	0.258	0.258	r
107-06-2	1,2-Dichloroethane(sim)	0.247	U	0.247	0.247	r
71-55-6	1,1,1-Trichloroethane(sim)	0.183	U	0.183	0.183	r
56-23-5	Carbon Tetrachloride(sim)	0.075		0.032	0.032	r
75-35-4	1,1-Dichloroethene(sim)	0.051	U	0.051	0.051	r
76-13-1	Trichlorotrifluoroethane(sim)	0.131	U	0.131	0.131	r
156-60-5	Trans-1,2-Dichloroethene(sim)	0.252	U	0.252	0.252	r
75-34-3	1,1-Dichloroethane(sim)	0.247	U	0.247	0.247	r
156-59-2	Cis-1,2-Dichloroethene(sim)	0.051	U	0.051	0.051	r
67-66-3	Chloroform(sim)	0.205	U	0.205	0.205	r
78-87-5	1,2-dichloropropane(sim)	0.217	U	0.217	0.217	r
75-27-4	Bromodichloromethane(sim)	0.149	U	0.149	0.149	r
79-01-6	Trichloroethene(sim)	0.037	U	0.037	0.037	r
123-91-1	1,4-Dioxane(sim)	0.278	U	0.278	0.278	r
10061-01-5	cis-1,3-Dichloropropene(sim)	0.221	U	0.221	0.221	r
79-00-5	1,1,2-Trichloroethane(sim)	0.183	U	0.183	0.183	r
124-48-1	Dibromochloromethane(sim)	0.118	U	0.118	0.118	r
106-93-4	1,2-Dibromoethane(EDB)(sim)	0.130	U	0.130	0.130	r
127-18-4	Tetrachloroethene(sim)	0.037	U	0.037	0.037	r
75-25-2	Bromoform(sim)	0.097	U	0.097	0.097	r
179601-23-1	m,p-Xylene(sim)	0.318		0.230	0.230	r
79-34-5	1,1,2,2-Tetrachloroethane(sim)	0.146	U	0.146	0.146	r
100-44-7	Benzyl chloride(sim)	0.193	U	0.193	0.193	r
541-73-1	1,3-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
106-46-7	1,4-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
135-98-8	sec-Butylbenzene(sim)	0.182	U	0.182	0.182	r
99-87-6	4-Isopropyltoluene(sim)	0.182	U	0.182	0.182	r
95-50-1	1,2-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
104-51-8	n-Butylbenzene(sim)	0.182	U	0.182	0.182	r
120-82-1	1,2,4-Trichlorobenzene(sim)	0.135	U	0.135	0.135	r
87-68-3	Hexachlorobutadiene(sim)	0.094	U	0.094	0.094	r

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

Data Path : H:\AIR2024\CHEM24\11NOV\26\
 Data File : 1126_11.D
 Acq On : 26 Nov 2024 9:14 pm
 Operator : Keith
 Client ID : IA-4
 Lab ID : CS16248
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Nov 27 08:26:58 2024
 Quant Method : H:\AIR2024\CHEM24\Methods\24_AIR_1018.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Mon Oct 21 10:04:28 2024
 Response via : Initial Calibration

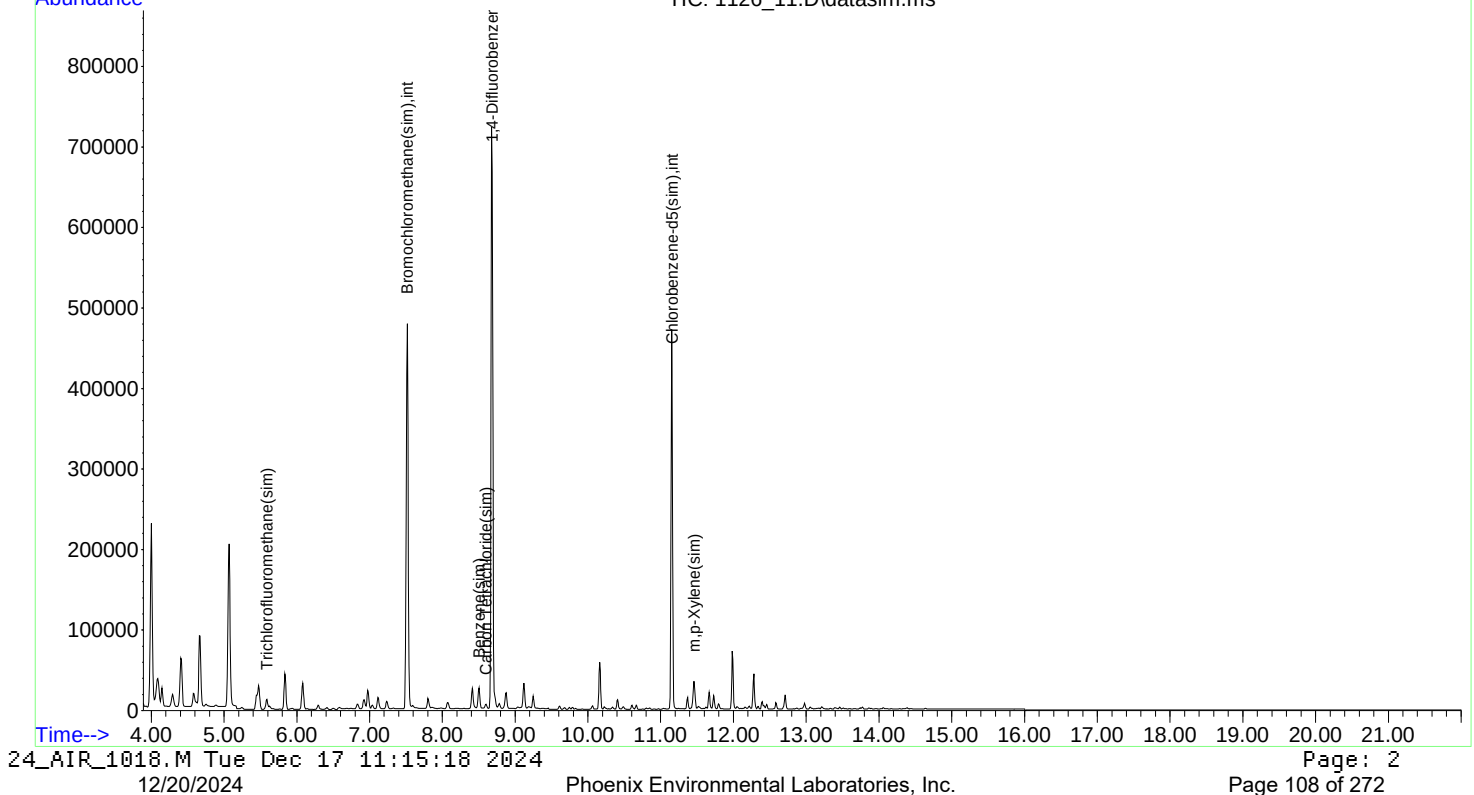
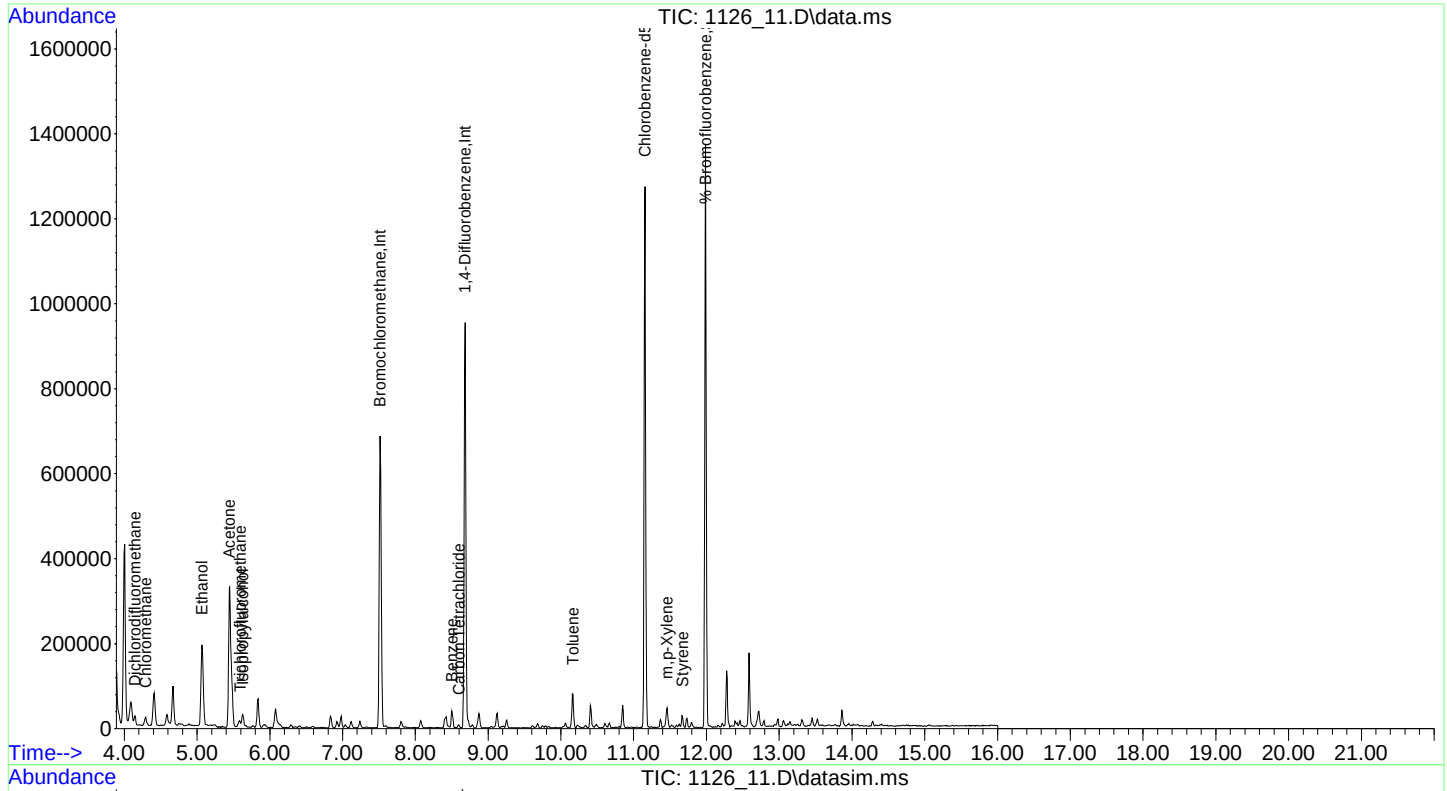
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

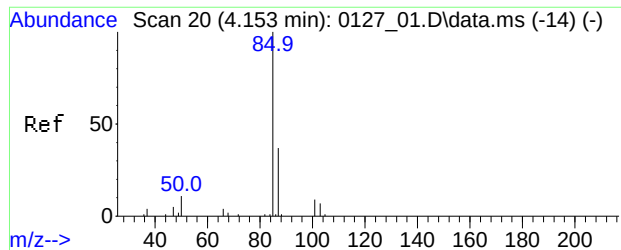
Internal Standards						
1) Bromochloromethane	7.515	130	201432	10.000	ng	0.00
37) 1,4-Difluorobenzene	8.683	114	640447	10.000	ng	0.00
54) Chlorobenzene-d5	11.155	82	275451	10.000	ng	0.00
81) Bromochloromethane(sim)	7.518	130	205403	10.000	ng	# 0.00
96) 1,4-Difluorobenzene(sim)	8.683	114	640447	10.000	ng	0.00
106) Chlorobenzene-d5(sim)	11.155	82	275451	10.000	ng	# 0.00
System Monitoring Compounds						
63) % Bromofluorobenzene	11.989	95	350121	9.822	ppbv	0.00
Spiked Amount	10.000	Range 70 - 130	Recovery	=	98.20%	
Target Compounds						
					Qvalue	
3) Dichlorodifluoromethane	4.145	85	23640	0.454	ppbv#	97
4) Chloromethane	4.294	50	15772	0.614	ppbv	100
11) Ethanol	5.065	45	261772	22.365	ppbv#	92
12) Acetone	5.443	43	455293	11.440	ppbv	90
13) Trichlorofluoromethane	5.590	101	12111	0.211	ppbv	98
14) Isopropylalcohol	5.627	45	40417	0.817	ppbv#	85
34) Benzene	8.502	78	23798	0.420	ppbv#	91
35) Carbon Tetrachloride	8.597	117	4128	0.080	ppbv	89
49) Toluene	10.166	91	42739	0.610	ppbv	97
58) m,p-Xylene	11.458	91	24389	0.387	ppbv	98
60) Styrene	11.670	104	11968	0.248	ppbv#	92
85] Trichlorofluoromethane...	5.587	101	12472	0.207	ppbv#	99
88] Benzene(sim)	8.502	78	23798	0.382	ppbv#	91
89] Carbon Tetrachloride(sim)	8.600	117	3962	0.075	ppbv	100
108] m,p-Xylene(sim)	11.458	91	24389	0.318	ppbv	98

(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Data Path : H:\AIR2024\CHEM24\11NOV\26\
Data File : 1126_11.D
Acq On : 26 Nov 2024 9:14 pm
Operator : Keith
Client ID : IA-4
Lab ID : CS16248
ALS Vial : 12 Sample Multiplier: 1

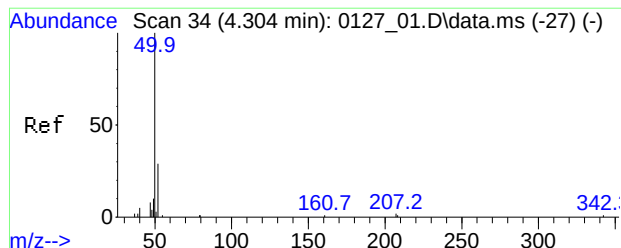
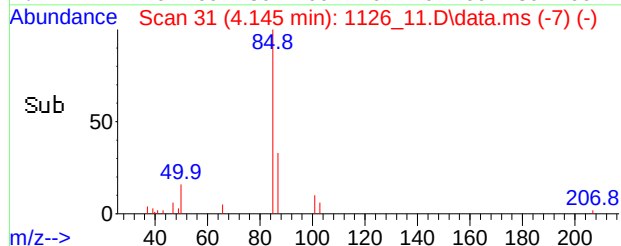
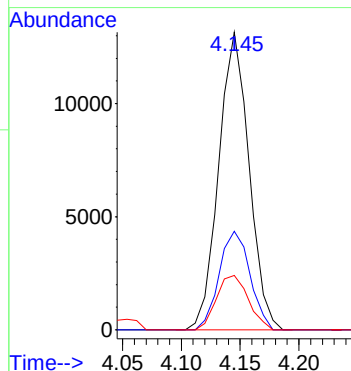
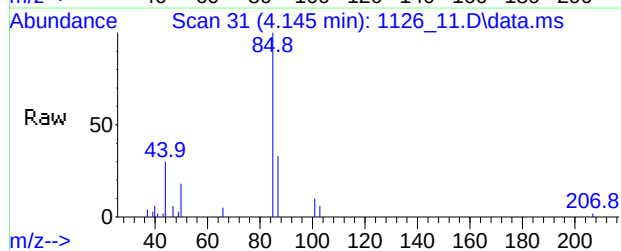
Quant Time: Nov 27 08:26:58 2024
Quant Method : H:\AIR2024\CHEM24\Methods\24_AIR_1018.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Mon Oct 21 10:04:28 2024
Response via : Initial Calibration





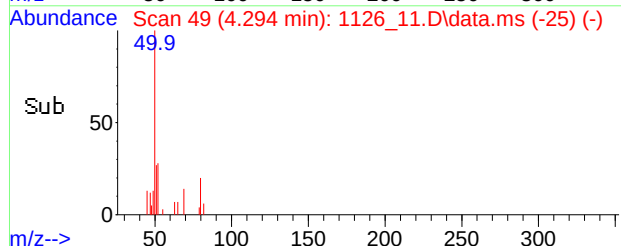
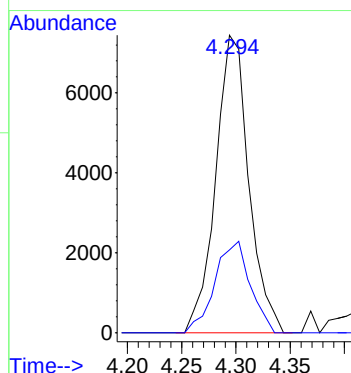
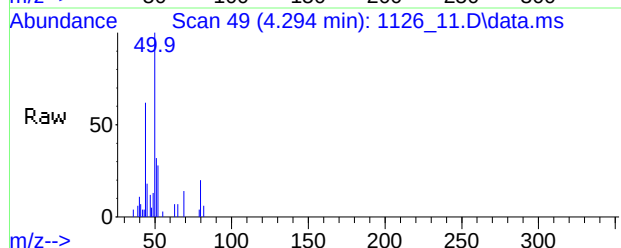
#3
Dichlorodifluoromethane
Conc: 8\$ 0.454 ppbv
RT: 4.145 min Scan# 31
Delta R.T. -0.000 min
Lab File: 1126_11.D
Acq: 26 Nov 2024 9:14 pm

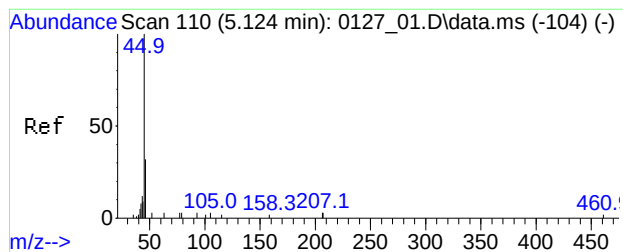
Tgt Ion: 85 Resp: 23640
Ion Ratio Lower Upper
85 100
87 33.6 26.9 40.3
50 19.2 12.0 18.0#



#4
Chloromethane
Conc: 8\$ 0.614 ppbv
RT: 4.294 min Scan# 49
Delta R.T. -0.000 min
Lab File: 1126_11.D
Acq: 26 Nov 2024 9:14 pm

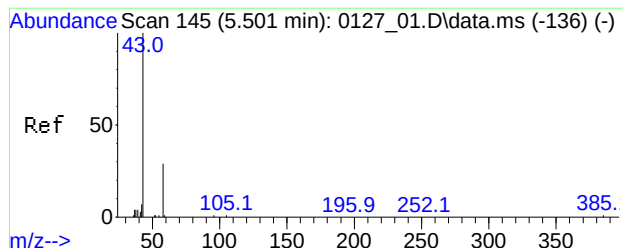
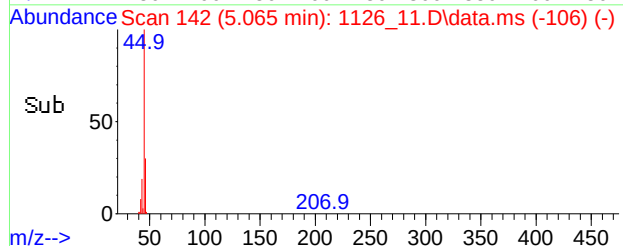
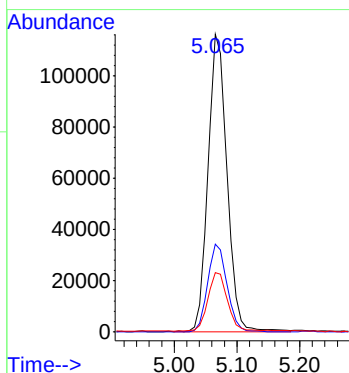
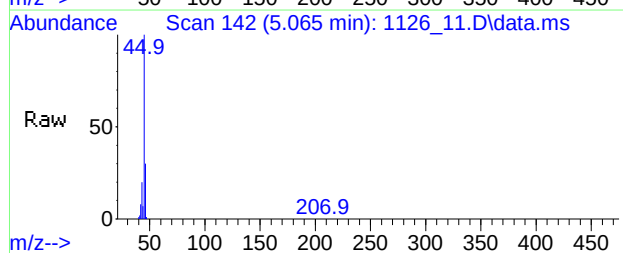
Tgt Ion: 50 Resp: 15772
Ion Ratio Lower Upper
50 100
52 32.8 12.8 52.8





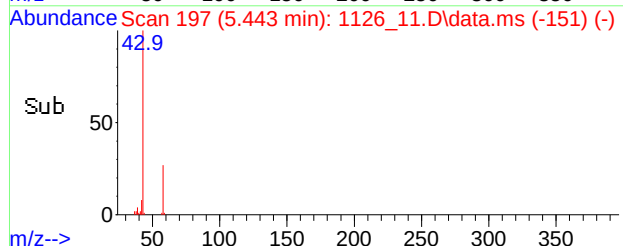
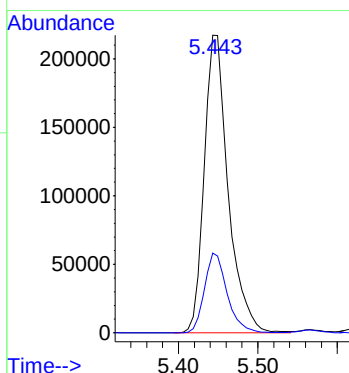
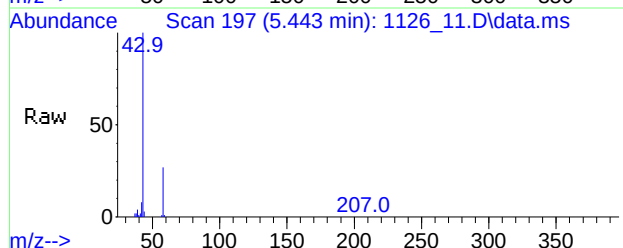
#11
Ethanol
Conc: 8\$ 22.365 ppbv
RT: 5.065 min Scan# 142
Delta R.T. -0.000 min
Lab File: 1126_11.D
Acq: 26 Nov 2024 9:14 pm

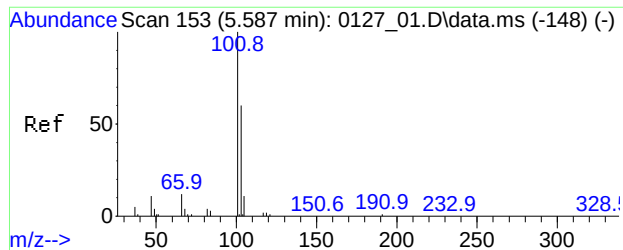
Tgt Ion: 45 Resp: 261772
Ion Ratio Lower Upper
45 100
46 28.0 25.0 37.6
43 19.9 20.0 30.0#



#12
Acetone
Conc: 8\$ 11.440 ppbv
RT: 5.443 min Scan# 197
Delta R.T. -0.000 min
Lab File: 1126_11.D
Acq: 26 Nov 2024 9:14 pm

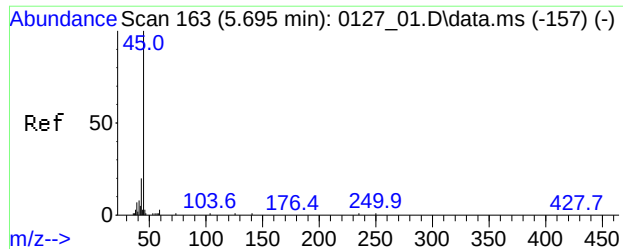
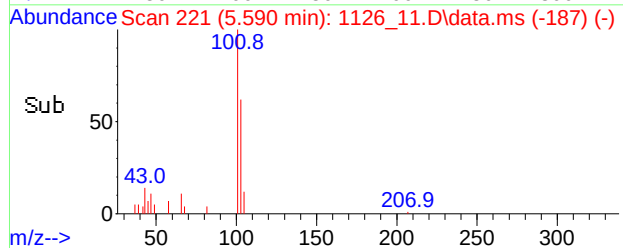
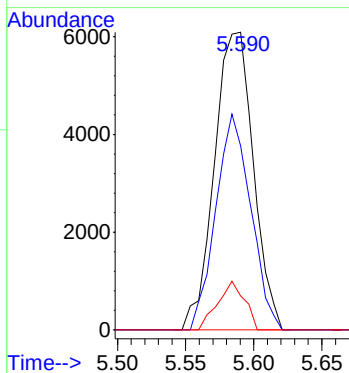
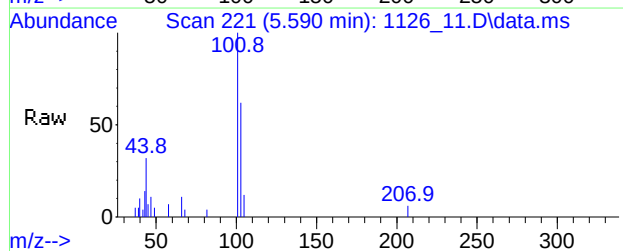
Tgt Ion: 43 Resp: 455293
Ion Ratio Lower Upper
43 100
58 25.4 24.6 37.0





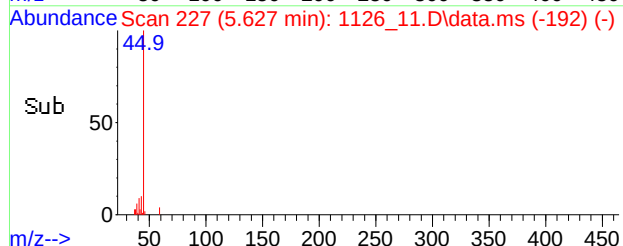
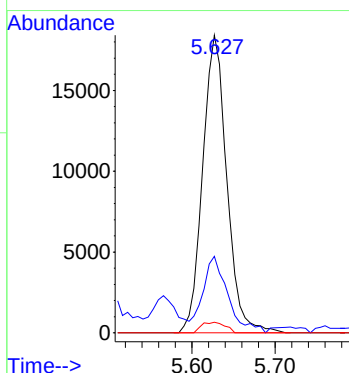
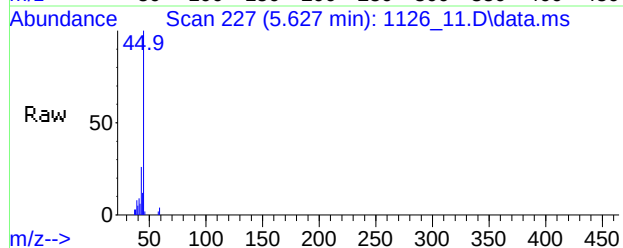
#13
Trichlorofluoromethane
Conc: 8\$ 0.211 ppbv
RT: 5.590 min Scan# 221
Delta R.T. 0.006 min
Lab File: 1126_11.D
Acq: 26 Nov 2024 9:14 pm

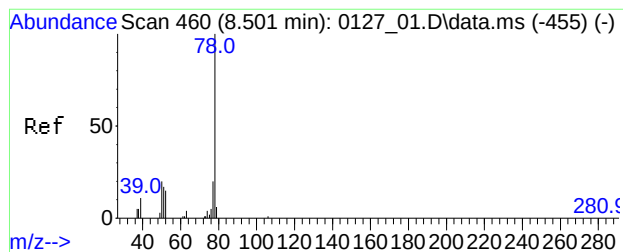
Tgt Ion:	101	Resp:	12111
Ion	Ratio	Lower	Upper
101	100		
103	65.0	53.4	80.2
66	11.2	9.3	13.9



#14
Isopropylalcohol
Conc: 8\$ 0.817 ppbv
RT: 5.627 min Scan# 227
Delta R.T. 0.012 min
Lab File: 1126_11.D
Acq: 26 Nov 2024 9:14 pm

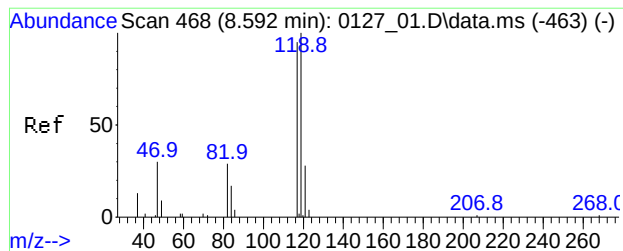
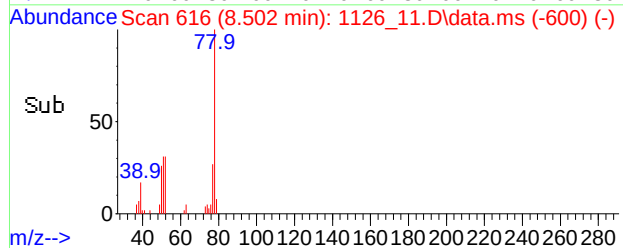
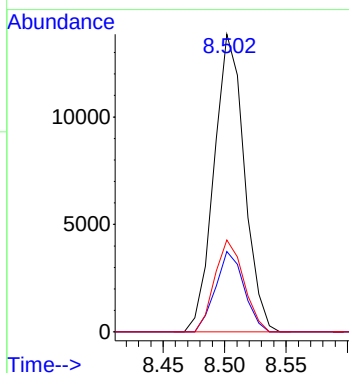
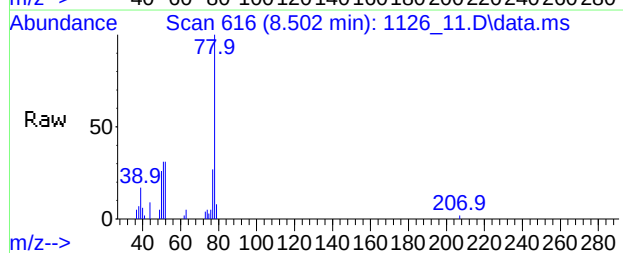
Tgt Ion:	45	Resp:	40417
Ion	Ratio	Lower	Upper
45	100		
43	24.4	13.3	19.9#
59	3.2	2.6	4.0





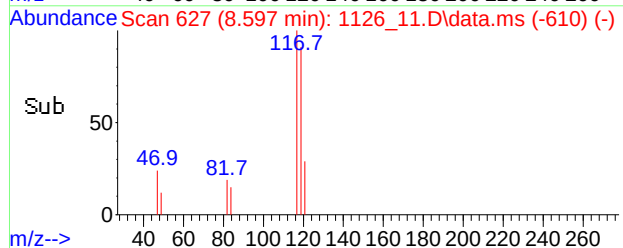
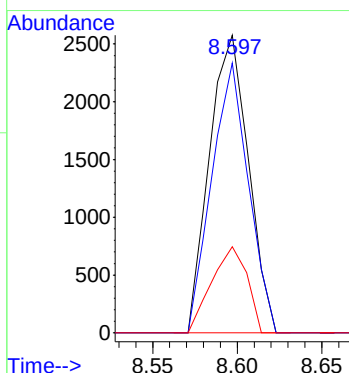
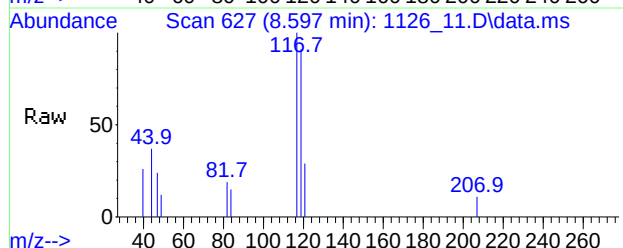
#34
Benzene
Conc: 8\$ 0.420 ppbv
RT: 8.502 min Scan# 616
Delta R.T. -0.000 min
Lab File: 1126_11.D
Acq: 26 Nov 2024 9:14 pm

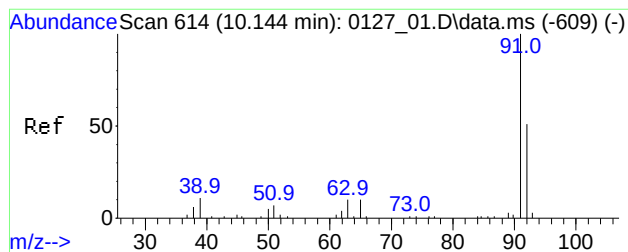
Tgt Ion: 78 Resp: 23798
Ion Ratio Lower Upper
78 100
77 25.4 18.8 28.2
51 29.6 18.1 27.1#



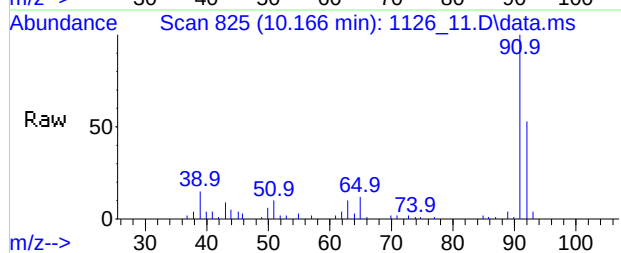
#35
Carbon Tetrachloride
Conc: 8\$ Below Cal
RT: 8.597 min Scan# 627
Delta R.T. -0.000 min
Lab File: 1126_11.D
Acq: 26 Nov 2024 9:14 pm

Tgt Ion: 117 Resp: 4128
Ion Ratio Lower Upper
117 100
119 85.5 76.5 116.5
121 26.4 11.2 51.2

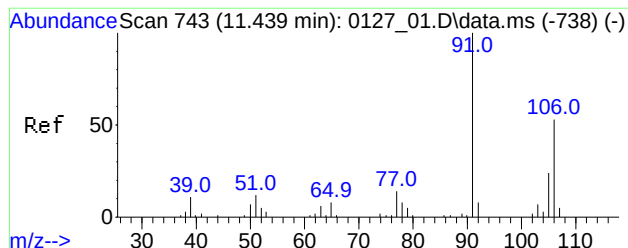
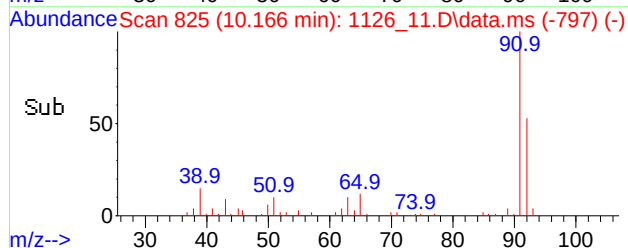
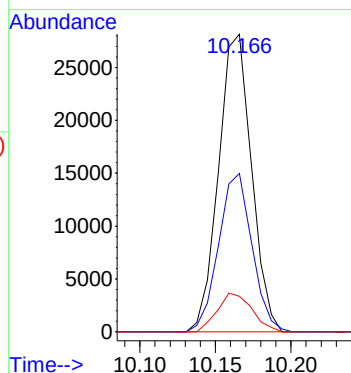




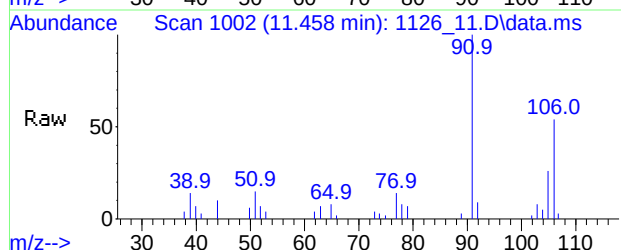
#49
Toluene
Conc: 8\$ 0.610 ppbv
RT: 10.166 min Scan# 825
Delta R.T. -0.000 min
Lab File: 1126_11.D
Acq: 26 Nov 2024 9:14 pm



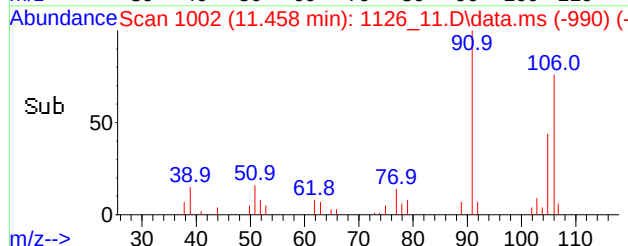
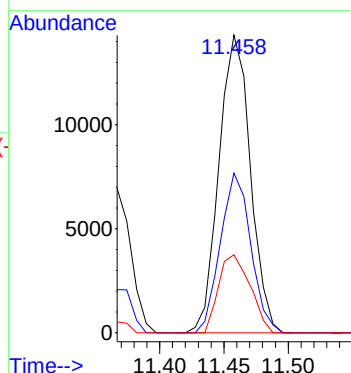
Tgt Ion: 91 Resp: 42739
Ion Ratio Lower Upper
91 100
92 54.0 45.0 67.4
65 13.7 9.4 14.2

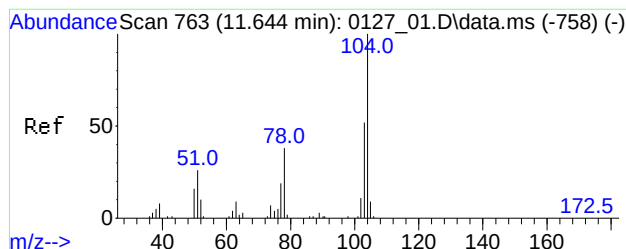


#58
m,p-Xylene
Conc: 8\$ 0.387 ppbv
RT: 11.458 min Scan# 1002
Delta R.T. -0.008 min
Lab File: 1126_11.D
Acq: 26 Nov 2024 9:14 pm

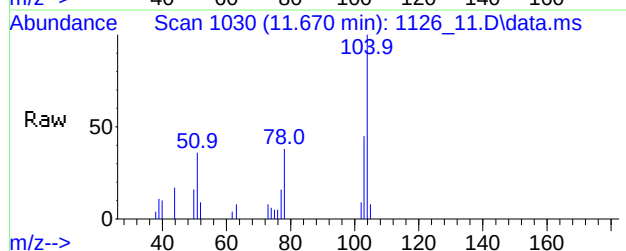


Tgt Ion: 91 Resp: 24389
Ion Ratio Lower Upper
91 100
106 51.9 41.1 61.7
105 26.3 19.5 29.3

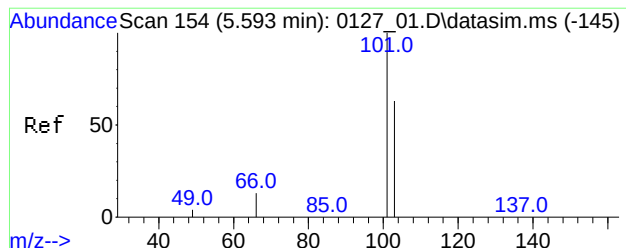
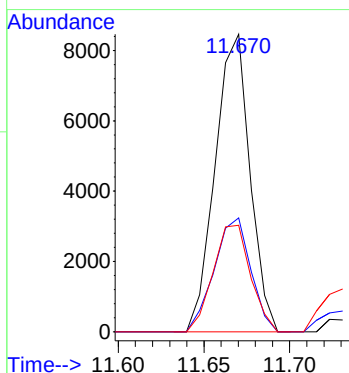
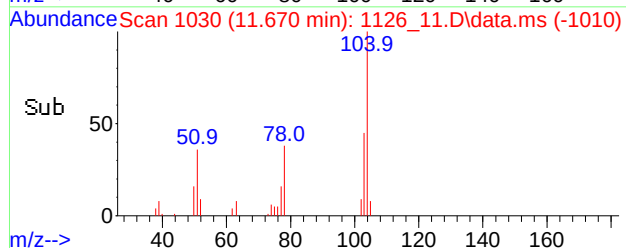




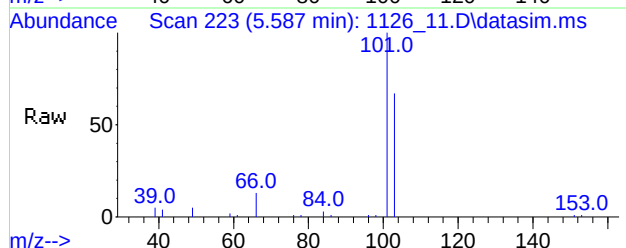
#60
Styrene
Conc: 8\$ 0.248 ppbv
RT: 11.670 min Scan# 1030
Delta R.T. -0.000 min
Lab File: 1126_11.D
Acq: 26 Nov 2024 9:14 pm



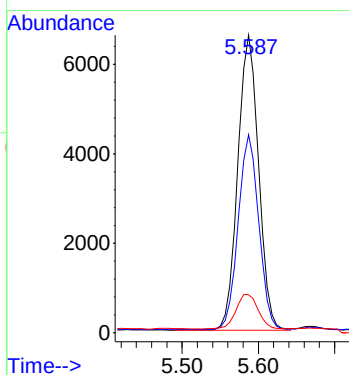
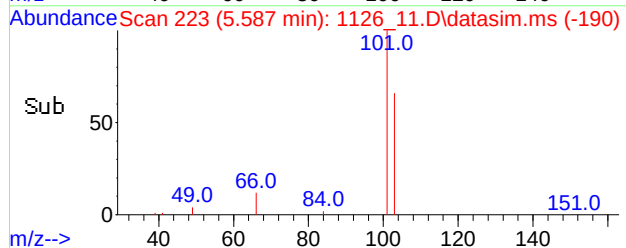
Tgt Ion: 104 Resp: 11968
Ion Ratio Lower Upper
104 100
78 40.2 32.3 48.5
51 38.6 23.4 35.0#

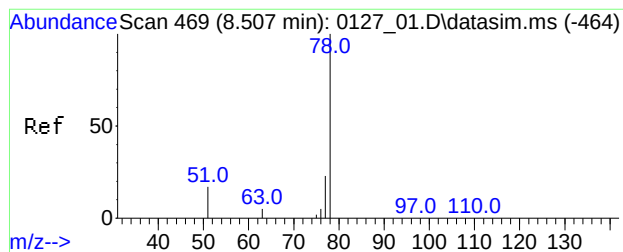


#85
Trichlorofluoromethane(sim)
Conc: 8\$ 0.207 ppbv
RT: 5.587 min Scan# 223
Delta R.T. -0.000 min
Lab File: 1126_11.D
Acq: 26 Nov 2024 9:14 pm



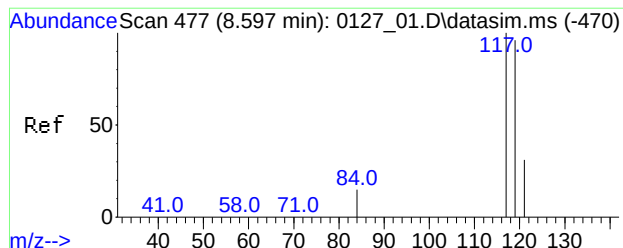
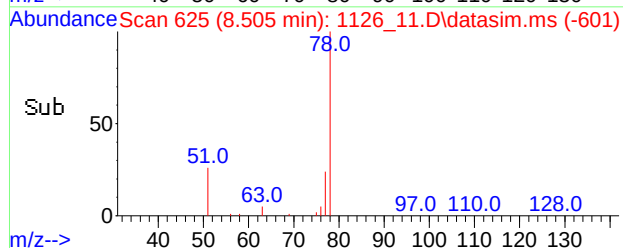
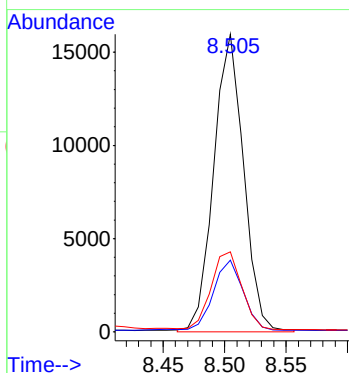
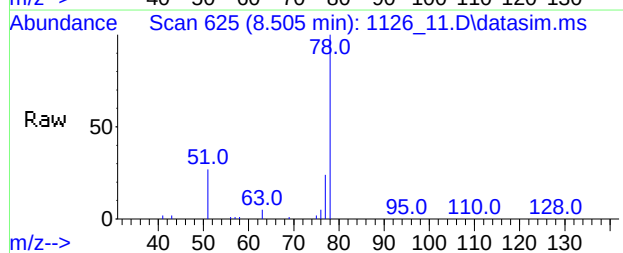
Tgt Ion: 101 Resp: 12472
Ion Ratio Lower Upper
101 100
103 65.2 52.4 78.6
66 12.3 11.4 11.4#





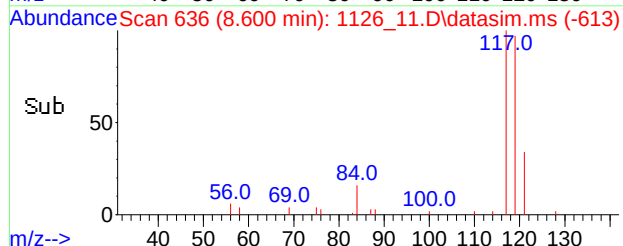
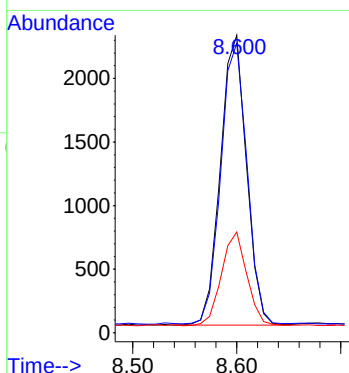
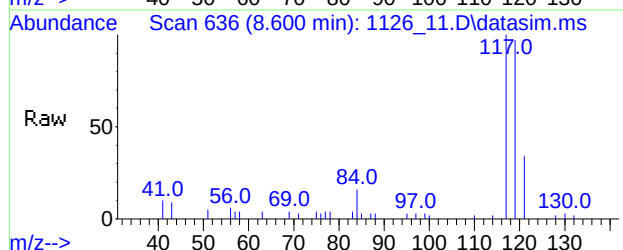
#88
Benzene(sim)
Conc: 8\$ 0.382 ppbv
RT: 8.502 min Scan# 625
Delta R.T. -0.000 min
Lab File: 1126_11.D
Acq: 26 Nov 2024 9:14 pm

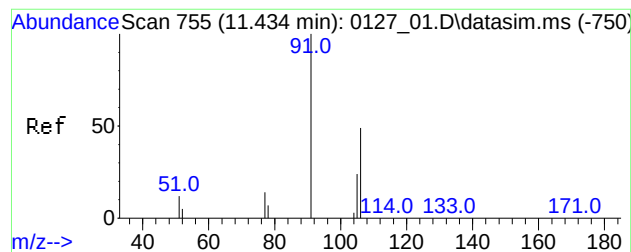
Tgt Ion: 78 Resp: 23798
Ion Ratio Lower Upper
78 100
77 25.4 18.8 28.2
51 29.6 18.1 27.1#



#89
Carbon Tetrachloride(sim)
Conc: 8\$ 0.075 ppbv
RT: 8.600 min Scan# 636
Delta R.T. -0.000 min
Lab File: 1126_11.D
Acq: 26 Nov 2024 9:14 pm

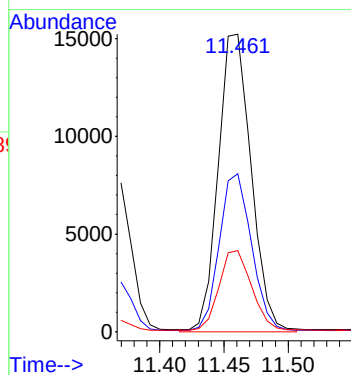
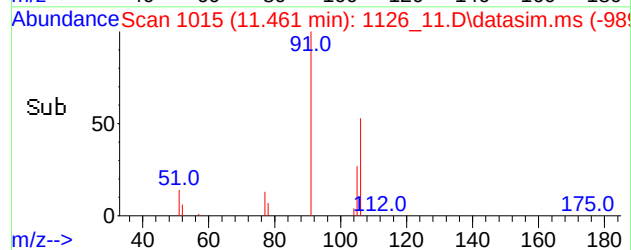
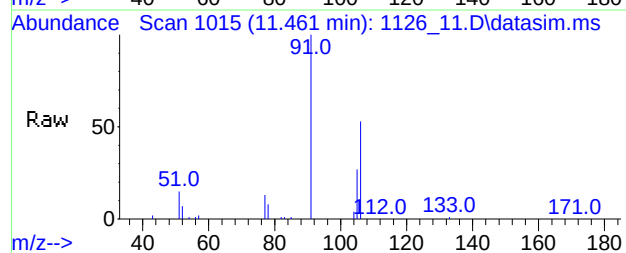
Tgt Ion: 117 Resp: 3962
Ion Ratio Lower Upper
117 100
119 96.9 77.4 116.2
121 31.9 24.9 37.3





#108
 m,p-Xylene(sim)
 Conc: 8\$ 0.318 ppbv
 RT: 11.458 min Scan# 1015
 Delta R.T. -0.008 min
 Lab File: 1126_11.D
 Acq: 26 Nov 2024 9:14 pm

Tgt Ion: 91 Resp: 24389
 Ion Ratio Lower Upper
 91 100
 106 51.9 46.3 56.5
 105 26.3 19.5 29.3



1
AIR ANALYSIS DATA SHEET

CLIENT ID

Client:	<u>AMC-ENG</u>	Lab:	<u>Phoenix Env. Labs</u>	DUPLICATE
SDG No.:	<u>GCS16244</u>	Lab Sample ID:	<u>CS16249</u>	
Canister:	<u>12862</u>	Lab File ID:	<u>1126_12.D</u>	
Instrument:	<u>CHEM24</u>	Column:	<u>RTX-1</u>	Date Received:
				<u>11/26/24</u>
Purge Volume	<u>200</u> (cc)	Date Analyzed:	<u>11/26/24</u>	
Matrix:	<u>AIR</u>	Dilution Factor:	<u>1</u>	

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
115-07-1	Propylene	0.581	U	0.581	0.581	r
75-71-8	Dichlorodifluoromethane	0.478		0.202	0.202	r
74-87-3	Chloromethane	0.608		0.485	0.485	r
106-99-0	1,3-Butadiene	0.452	U	0.452	0.452	r
75-00-3	Chloroethane	0.379	U	0.379	0.379	r
64-17-5	Ethanol	30.1	S	0.531	0.531	r
67-64-1	Acetone	9.79	S	0.421	0.421	r
75-69-4	Trichlorofluoromethane	0.216		0.178	0.178	r
67-63-0	Isopropylalcohol	2.12	S	0.407	0.407	r
107-13-1	Acrylonitrile	0.461	U	0.461	0.461	r
75-09-2	Methylene Chloride	0.863	U	0.863	0.863	r
75-15-0	Carbon Disulfide	0.321	U	0.321	0.321	r
1634-04-4	Methyl tert-butyl ether(MTBE)	0.278	U	0.278	0.278	r
78-93-3	Methyl Ethyl Ketone	0.339	U	0.339	0.339	r
110-54-3	Hexane	0.284	U	0.284	0.284	r
141-78-6	Ethyl acetate	0.278	U	0.278	0.278	r
109-99-9	Tetrahydrofuran	0.339	U	0.339	0.339	r
71-43-2	Benzene	0.313	U	0.313	0.313	r
110-82-7	Cyclohexane	0.291	U	0.291	0.291	r
540-84-1	2,2,4-trimethylpentane	0.215	U	0.215	0.215	r
142-82-5	Heptane	0.244	U	0.244	0.244	r
108-10-1	4-Methyl-2-pentanone(MIBK)	0.244	U	0.244	0.244	r
10061-02-6	trans-1,3-Dichloropropene	0.221	U	0.221	0.221	r
108-88-3	Toluene	1.14		0.266	0.266	r
591-78-6	2-Hexanone(MBK)	0.244	U	0.244	0.244	r
630-20-6	1,1,1,2-Tetrachloroethane	0.146	U	0.146	0.146	r
108-90-7	Chlorobenzene	0.217	U	0.217	0.217	r
100-41-4	Ethylbenzene	0.230	U	0.230	0.230	r
100-42-5	Styrene	0.235	U	0.235	0.235	r
95-47-6	o-Xylene	0.230	U	0.230	0.230	r
98-82-8	Isopropylbenzene	0.204	U	0.204	0.204	r
622-96-8	4-Ethyltoluene	0.204	U	0.204	0.204	r
108-67-8	1,3,5-Trimethylbenzene	0.204	U	0.204	0.204	r
95-63-6	1,2,4-Trimethylbenzene	0.204	U	0.204	0.204	r
91-20-3	Naphthalene	0.200	U	0.200	0.200	r
76-14-2	1,2-Dichlorotetrafluoroethane(sim)	0.143	U	0.143	0.143	r

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

1
AIR ANALYSIS DATA SHEET

CLIENT ID

Client:	<u>AMC-ENG</u>	Lab:	<u>Phoenix Env. Labs</u>	DUPLICATE
SDG No.:	<u>GCS16244</u>	Lab Sample ID:	<u>CS16249</u>	
Canister:	<u>12862</u>	Lab File ID:	<u>1126_12.D</u>	
Instrument:	<u>CHEM24</u>	Column:	<u>RTX-1</u>	Date Received:
				<u>11/26/24</u>
Purge Volume	<u>200</u> (cc)	Date Analyzed:	<u>11/26/24</u>	
Matrix:	<u>AIR</u>	Dilution Factor:	<u>1</u>	

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
75-01-4	Vinyl Chloride(sim)	0.078	U	0.078	0.078	r
74-83-9	Bromomethane(sim)	0.258	U	0.258	0.258	r
107-06-2	1,2-Dichloroethane(sim)	0.247	U	0.247	0.247	r
71-55-6	1,1,1-Trichloroethane(sim)	0.183	U	0.183	0.183	r
56-23-5	Carbon Tetrachloride(sim)	0.077		0.032	0.032	r
75-35-4	1,1-Dichloroethene(sim)	0.051	U	0.051	0.051	r
76-13-1	Trichlorotrifluoroethane(sim)	0.131	U	0.131	0.131	r
156-60-5	Trans-1,2-Dichloroethene(sim)	0.252	U	0.252	0.252	r
75-34-3	1,1-Dichloroethane(sim)	0.247	U	0.247	0.247	r
156-59-2	Cis-1,2-Dichloroethene(sim)	0.051	U	0.051	0.051	r
67-66-3	Chloroform(sim)	0.205	U	0.205	0.205	r
78-87-5	1,2-dichloropropane(sim)	0.217	U	0.217	0.217	r
75-27-4	Bromodichloromethane(sim)	0.149	U	0.149	0.149	r
79-01-6	Trichloroethene(sim)	0.037	U	0.037	0.037	r
123-91-1	1,4-Dioxane(sim)	0.278	U	0.278	0.278	r
10061-01-5	cis-1,3-Dichloropropene(sim)	0.221	U	0.221	0.221	r
79-00-5	1,1,2-Trichloroethane(sim)	0.183	U	0.183	0.183	r
124-48-1	Dibromochloromethane(sim)	0.118	U	0.118	0.118	r
106-93-4	1,2-Dibromoethane(EDB)(sim)	0.130	U	0.130	0.130	r
127-18-4	Tetrachloroethene(sim)	0.037	U	0.037	0.037	r
75-25-2	Bromoform(sim)	0.097	U	0.097	0.097	r
179601-23-1	m,p-Xylene(sim)	0.258		0.230	0.230	r
79-34-5	1,1,2,2-Tetrachloroethane(sim)	0.146	U	0.146	0.146	r
100-44-7	Benzyl chloride(sim)	0.193	U	0.193	0.193	r
541-73-1	1,3-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
106-46-7	1,4-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
135-98-8	sec-Butylbenzene(sim)	0.182	U	0.182	0.182	r
99-87-6	4-Isopropyltoluene(sim)	0.182	U	0.182	0.182	r
95-50-1	1,2-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
104-51-8	n-Butylbenzene(sim)	0.182	U	0.182	0.182	r
120-82-1	1,2,4-Trichlorobenzene(sim)	0.135	U	0.135	0.135	r
87-68-3	Hexachlorobutadiene(sim)	0.094	U	0.094	0.094	r

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

Data Path : H:\AIR2024\CHEM24\11NOV\26\
 Data File : 1126_12.D
 Acq On : 26 Nov 2024 9:52 pm
 Operator : Keith
 Client ID : DUPLICATE
 Lab ID : CS16249
 ALS Vial : 13 Sample Multiplier: 1

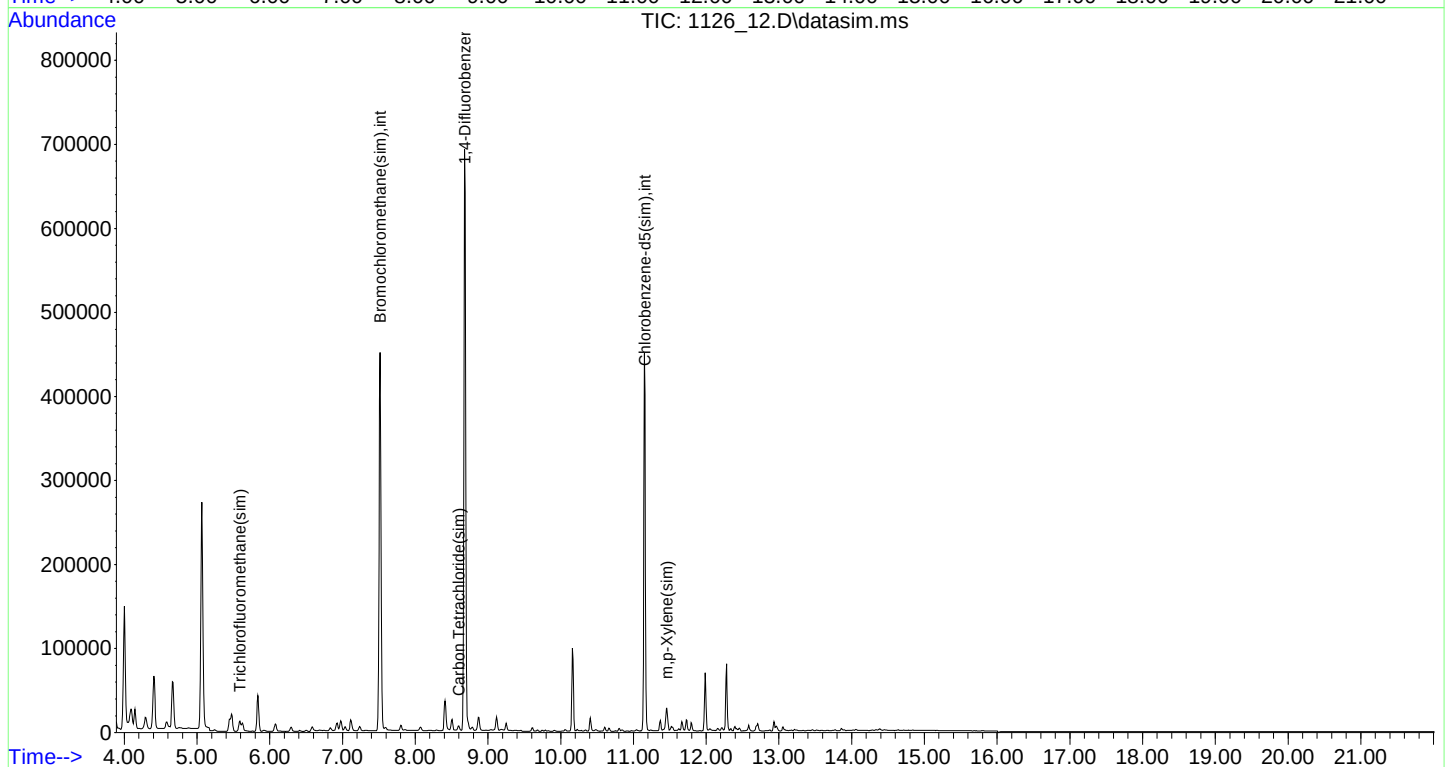
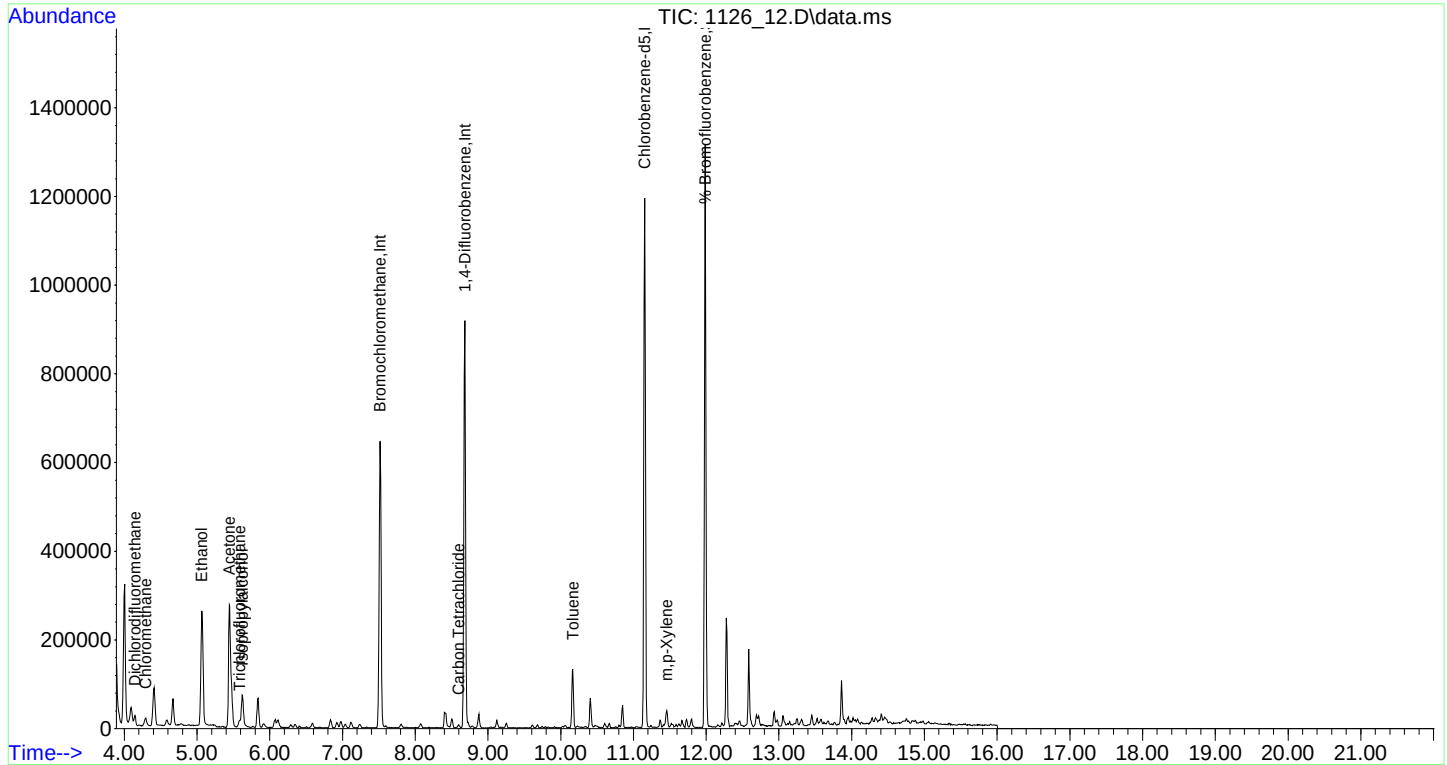
Quant Time: Nov 27 08:44:19 2024
 Quant Method : H:\AIR2024\CHEM24\Methods\24_AIR_1018.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Mon Oct 21 10:04:28 2024
 Response via : Initial Calibration

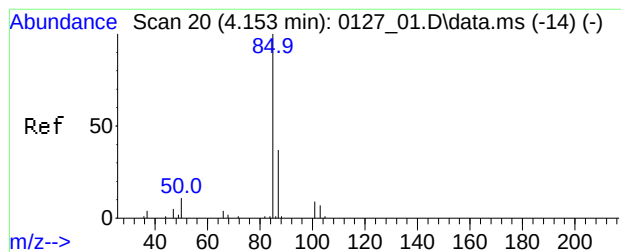
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	7.515	130	191718	10.000	ng	0.00
37) 1,4-Difluorobenzene	8.683	114	619104	10.000	ng	0.00
54) Chlorobenzene-d5	11.155	82	262826	10.000	ng	0.00
81) Bromochloromethane(sim)	7.518	130	197614	10.000	ng	# 0.00
96) 1,4-Difluorobenzene(sim)	8.683	114	619104	10.000	ng	0.00
106) Chlorobenzene-d5(sim)	11.155	82	262826	10.000	ng	# 0.00
System Monitoring Compounds						
63) % Bromofluorobenzene	11.989	95	337904	9.935	ppbv	0.00
Spiked Amount	10.000	Range 70 - 130	Recovery	=	99.30%	
Target Compounds						
					Qvalue	
3) Dichlorodifluoromethane	4.145	85	23708	0.478	ppbv#	97
4) Chloromethane	4.294	50	14861	0.608	ppbv	97
11) Ethanol	5.065	45	335335	30.102	ppbv#	95
12) Acetone	5.443	43	370682	9.786	ppbv	92
13) Trichlorofluoromethane	5.584	101	11812	0.216	ppbv	99
14) Isopropylalcohol	5.621	45	99984	2.124	ppbv#	87
35) Carbon Tetrachloride	8.597	117	3403	0.069	ppbv	90
49) Toluene	10.166	91	77388	1.143	ppbv	97
58) m,p-Xylene	11.458	91	18866	0.314	ppbv	96
85] Trichlorofluoromethane...	5.587	101	12398	0.214	ppbv#	99
89] Carbon Tetrachloride(sim)	8.600	117	3910	0.077	ppbv	98
108] m,p-Xylene(sim)	11.458	91	18866	0.258	ppbv	96

(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Data Path : H:\AIR2024\CHEM24\11NOV\26\
Data File : 1126_12.D
Acq On : 26 Nov 2024 9:52 pm
Operator : Keith
Client ID : DUPLICATE
Lab ID : CS16249
ALS Vial : 13 Sample Multiplier: 1

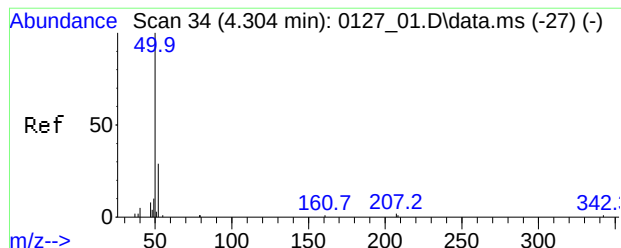
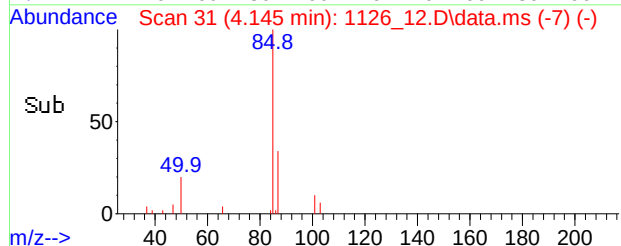
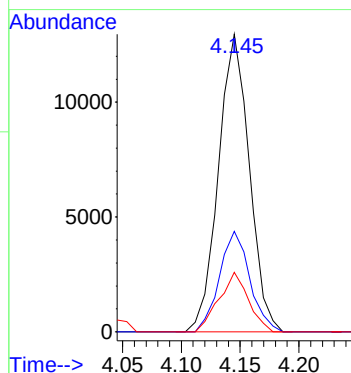
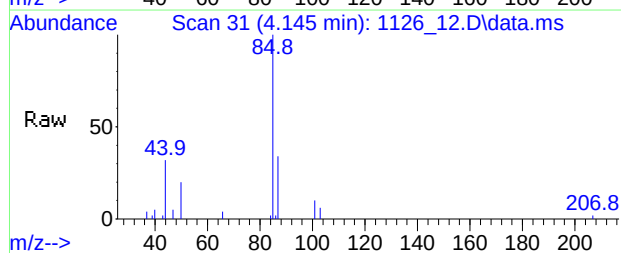
Quant Time: Nov 27 08:44:19 2024
Quant Method : H:\AIR2024\CHEM24\Methods\24_AIR_1018.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Mon Oct 21 10:04:28 2024
Response via : Initial Calibration





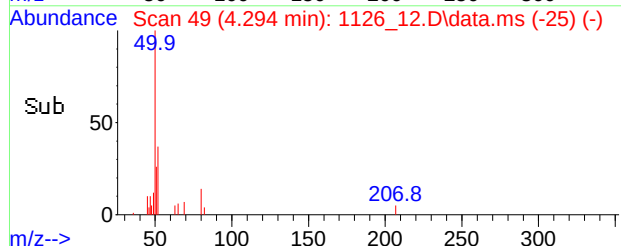
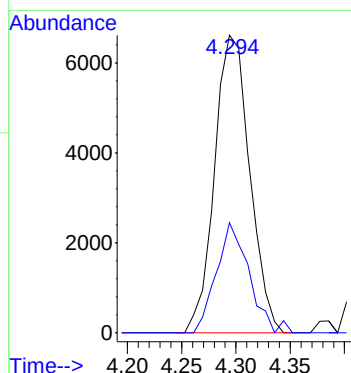
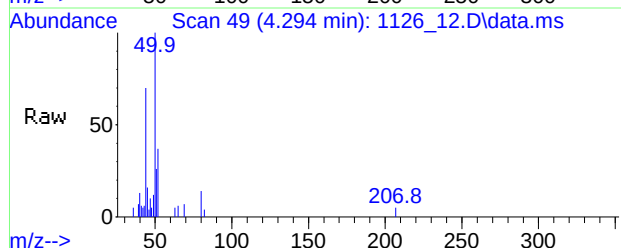
#3
Dichlorodifluoromethane
Conc: 8\$ 0.478 ppbv
RT: 4.145 min Scan# 31
Delta R.T. -0.000 min
Lab File: 1126_12.D
Acq: 26 Nov 2024 9:52 pm

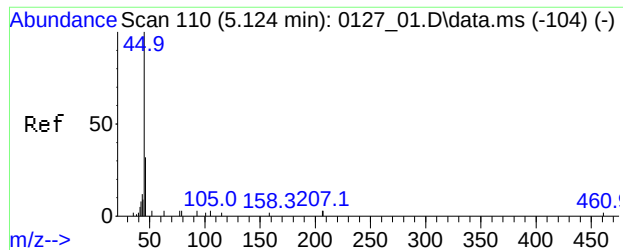
Tgt Ion: 85 Resp: 23708
Ion Ratio Lower Upper
85 100
87 33.2 26.9 40.3
50 19.0 12.0 18.0#



#4
Chloromethane
Conc: 8\$ 0.608 ppbv
RT: 4.294 min Scan# 49
Delta R.T. -0.000 min
Lab File: 1126_12.D
Acq: 26 Nov 2024 9:52 pm

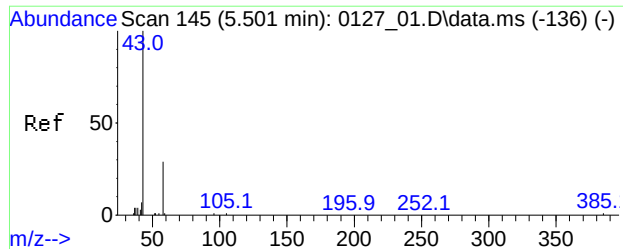
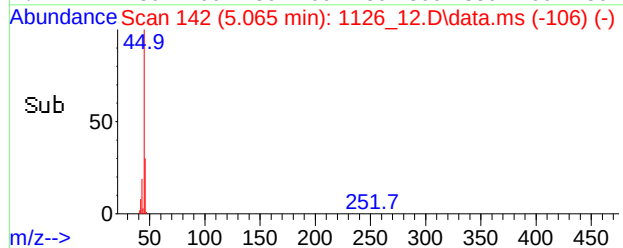
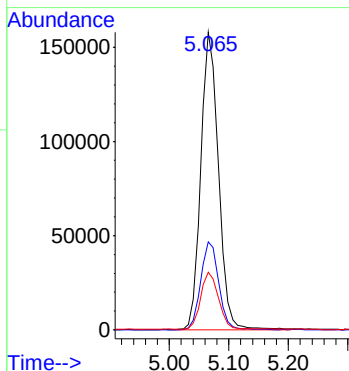
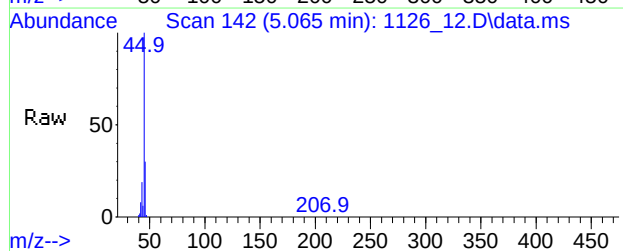
Tgt Ion: 50 Resp: 14861
Ion Ratio Lower Upper
50 100
52 34.5 12.8 52.8





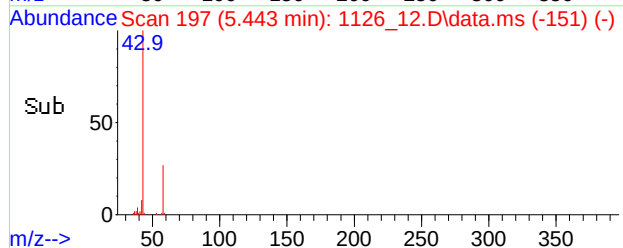
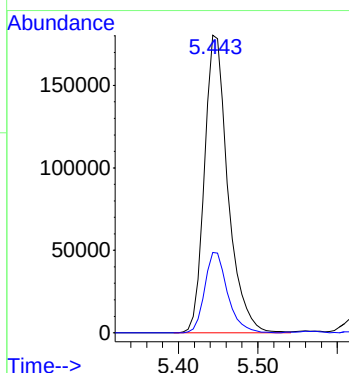
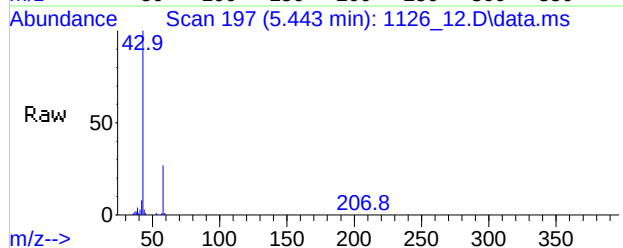
#11
Ethanol
Conc: 8\$ 30.102 ppbv
RT: 5.065 min Scan# 142
Delta R.T. -0.000 min
Lab File: 1126_12.D
Acq: 26 Nov 2024 9:52 pm

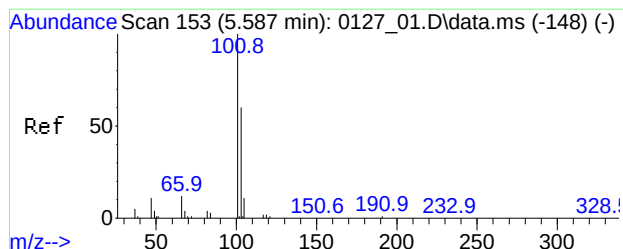
Tgt Ion: 45 Resp: 335335
Ion Ratio Lower Upper
45 100
46 31.9 25.0 37.6
43 19.6 20.0 30.0#



#12
Acetone
Conc: 8\$ 9.786 ppbv
RT: 5.443 min Scan# 197
Delta R.T. -0.000 min
Lab File: 1126_12.D
Acq: 26 Nov 2024 9:52 pm

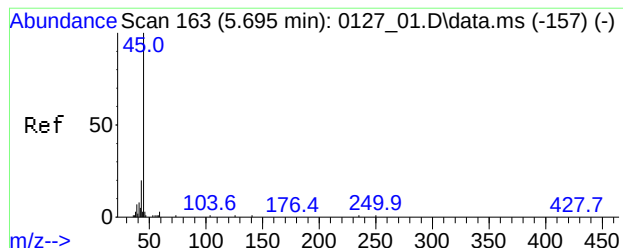
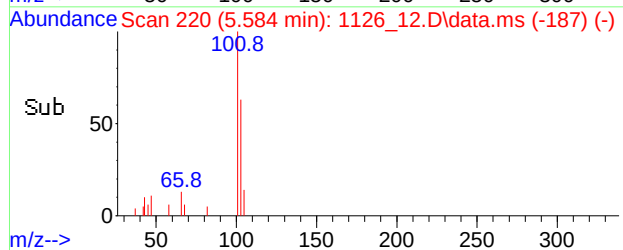
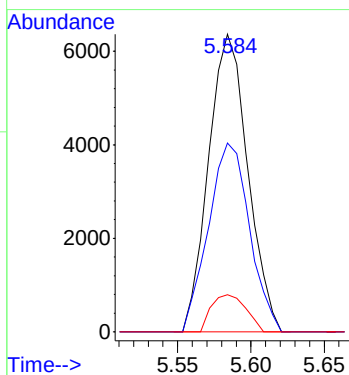
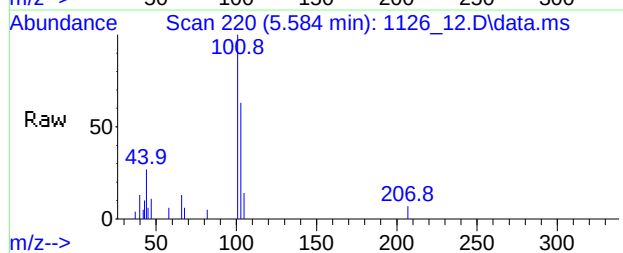
Tgt Ion: 43 Resp: 370682
Ion Ratio Lower Upper
43 100
58 26.3 24.6 37.0





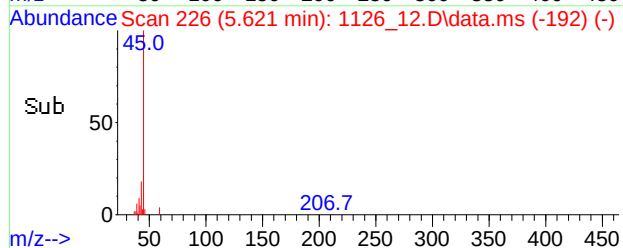
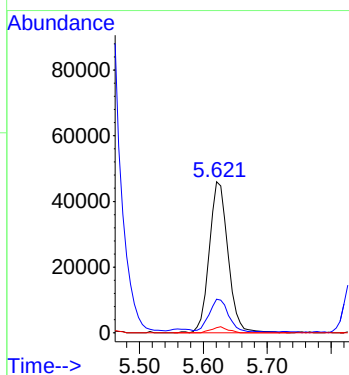
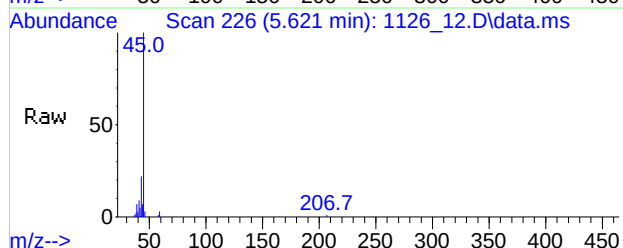
#13
Trichlorofluoromethane
Conc: 8\$ 0.216 ppbv
RT: 5.584 min Scan# 220
Delta R.T. -0.000 min
Lab File: 1126_12.D
Acq: 26 Nov 2024 9:52 pm

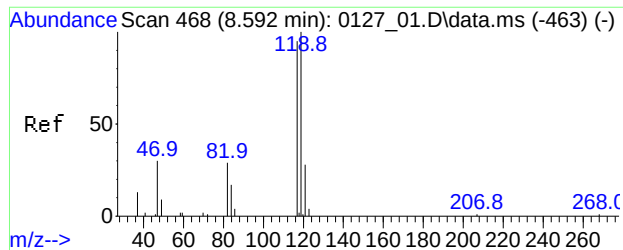
Tgt Ion: 101 Resp: 11812
Ion Ratio Lower Upper
101 100
103 66.4 53.4 80.2
66 11.0 9.3 13.9



#14
Isopropylalcohol
Conc: 8\$ 2.124 ppbv
RT: 5.621 min Scan# 226
Delta R.T. 0.006 min
Lab File: 1126_12.D
Acq: 26 Nov 2024 9:52 pm

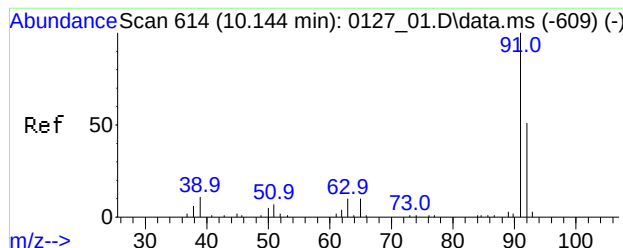
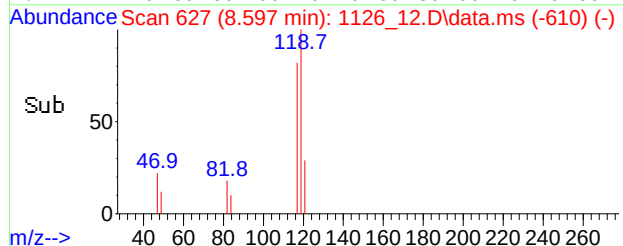
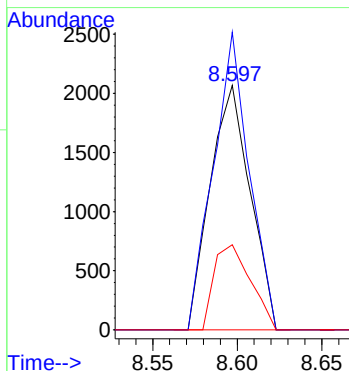
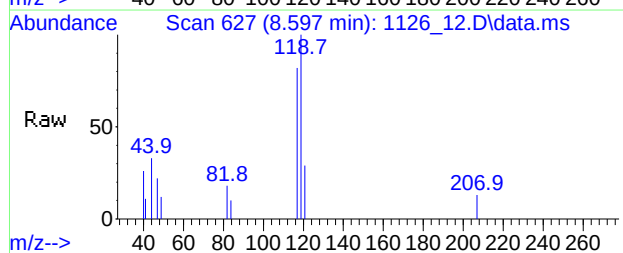
Tgt Ion: 45 Resp: 99984
Ion Ratio Lower Upper
45 100
43 23.1 13.3 19.9#
59 3.2 2.6 4.0





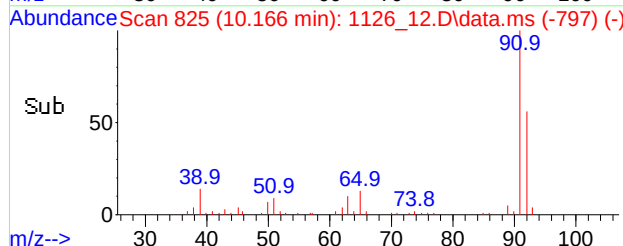
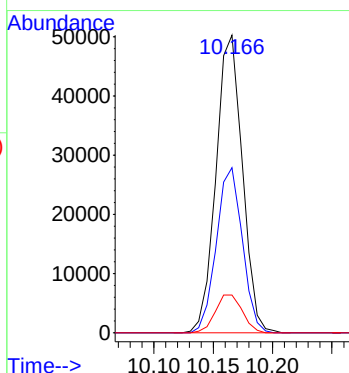
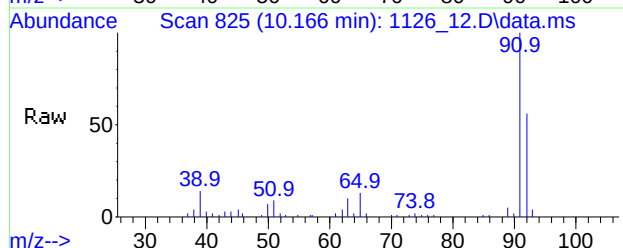
#35
Carbon Tetrachloride
Conc: 8\$ Below Cal
RT: 8.597 min Scan# 627
Delta R.T. -0.000 min
Lab File: 1126_12.D
Acq: 26 Nov 2024 9:52 pm

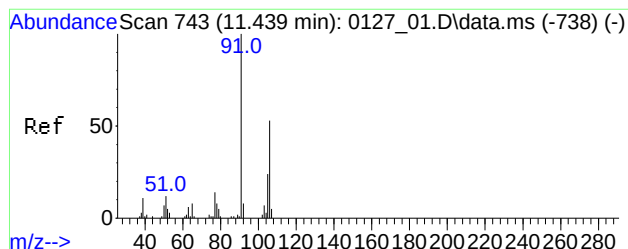
Tgt Ion: 117 Resp: 3403
Ion Ratio Lower Upper
117 100
119 109.3 76.5 116.5
121 31.9 11.2 51.2



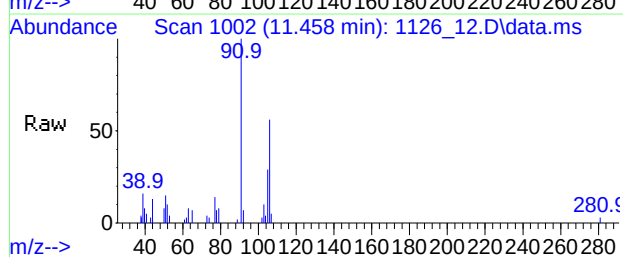
#49
Toluene
Conc: 8\$ 1.143 ppbv
RT: 10.166 min Scan# 825
Delta R.T. -0.000 min
Lab File: 1126_12.D
Acq: 26 Nov 2024 9:52 pm

Tgt Ion: 91 Resp: 77388
Ion Ratio Lower Upper
91 100
92 54.5 45.0 67.4
65 13.1 9.4 14.2

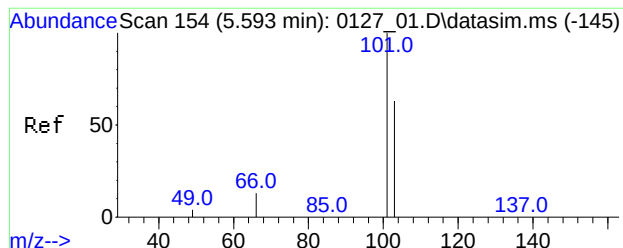
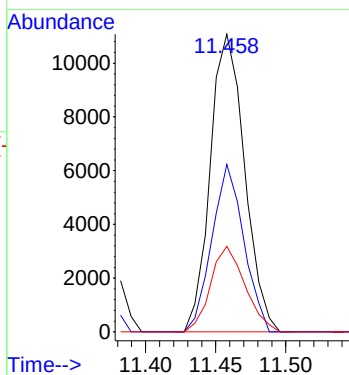
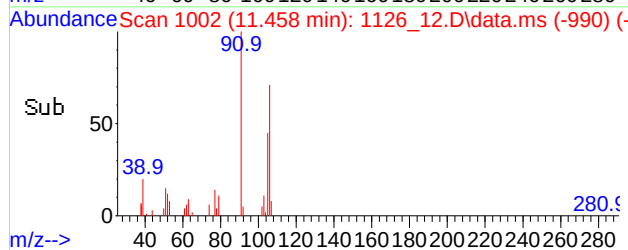




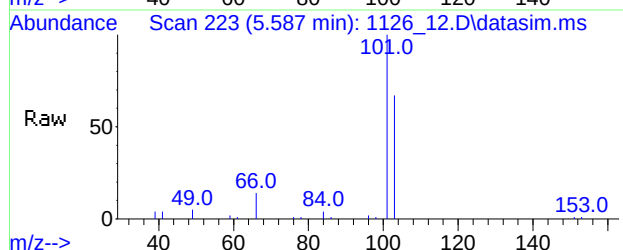
#58
m,p-Xylene
Conc: 8\$ 0.314 ppbv
RT: 11.458 min Scan# 1002
Delta R.T. -0.008 min
Lab File: 1126_12.D
Acq: 26 Nov 2024 9:52 pm



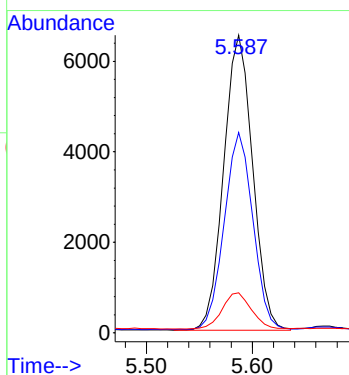
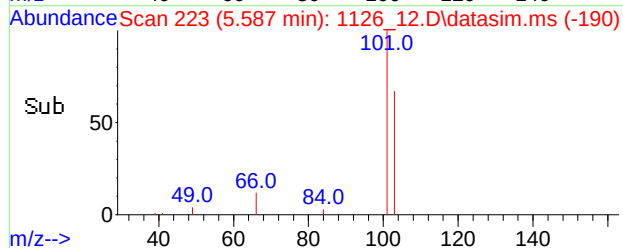
Tgt Ion: 91 Resp: 18866
Ion Ratio Lower Upper
91 100
106 52.3 41.1 61.7
105 28.9 19.5 29.3

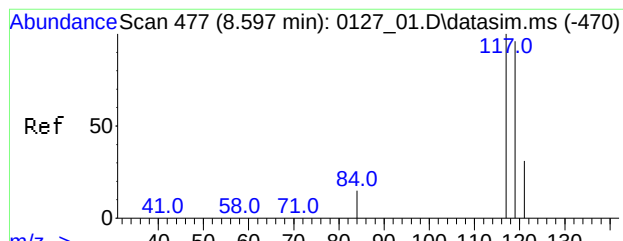


#85
Trichlorofluoromethane(sim)
Conc: 8\$ 0.214 ppbv
RT: 5.587 min Scan# 223
Delta R.T. -0.000 min
Lab File: 1126_12.D
Acq: 26 Nov 2024 9:52 pm



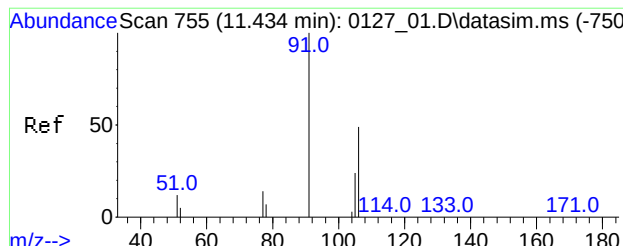
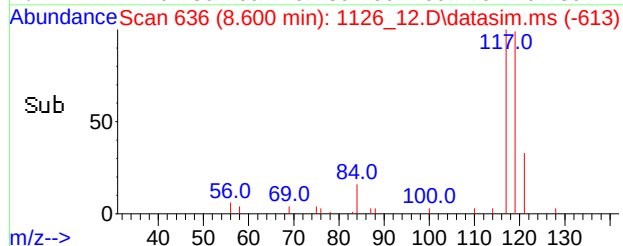
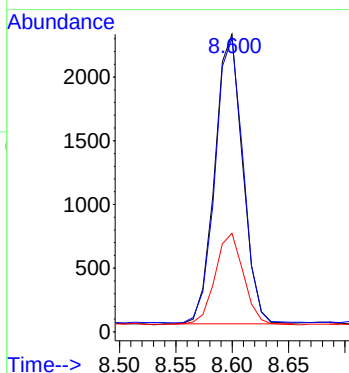
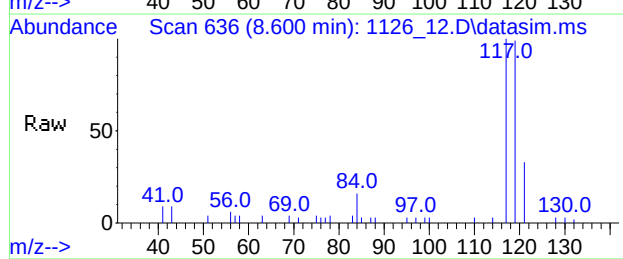
Tgt Ion: 101 Resp: 12398
Ion Ratio Lower Upper
101 100
103 66.0 52.4 78.6
66 12.3 11.4 11.4#





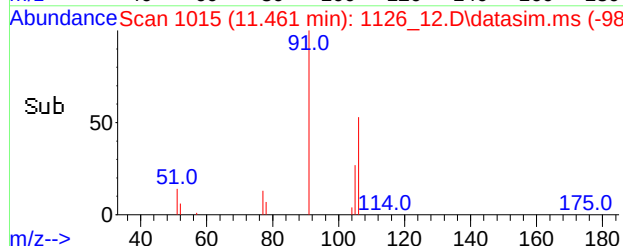
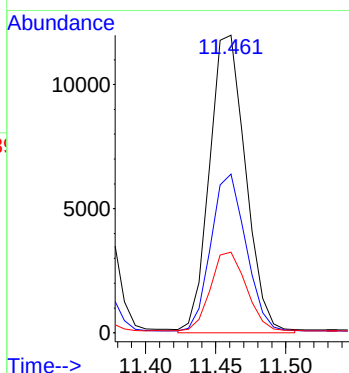
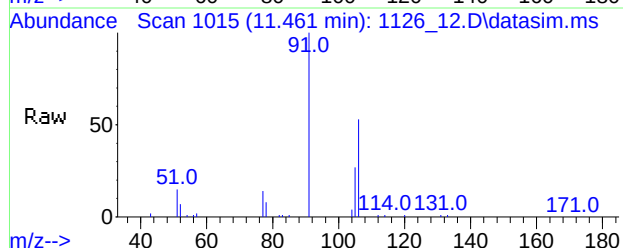
#89
Carbon Tetrachloride(sim)
Conc: 8\$ 0.077 ppbv
RT: 8.600 min Scan# 636
Delta R.T. -0.000 min
Lab File: 1126_12.D
Acq: 26 Nov 2024 9:52 pm

Tgt Ion: 117 Resp: 3910
Ion Ratio Lower Upper
117 100
119 98.4 77.4 116.2
121 32.5 24.9 37.3



#108
m,p-Xylene(sim)
Conc: 8\$ 0.258 ppbv
RT: 11.458 min Scan# 1015
Delta R.T. -0.008 min
Lab File: 1126_12.D
Acq: 26 Nov 2024 9:52 pm

Tgt Ion: 91 Resp: 18866
Ion Ratio Lower Upper
91 100
106 52.3 46.3 56.5
105 28.9 19.5 29.3



1
AIR ANALYSIS DATA SHEET

CLIENT ID

IA-3

Client:	AMC-ENG	Lab:	Phoenix Env. Labs
SDG No.:	GCS16244	Lab Sample ID:	CS16250
Canister:	21357	Lab File ID:	1126_13.D
Instrument:	CHEM24	Column:	RTX-1
		Date Received:	11/26/24
Purge Volume	200 (cc)	Date Analyzed:	11/26/24
Matrix:	AIR	Dilution Factor:	1

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
115-07-1	Propylene	0.581	U	0.581	0.581	r
75-71-8	Dichlorodifluoromethane	0.466		0.202	0.202	r
74-87-3	Chloromethane	0.624		0.485	0.485	r
106-99-0	1,3-Butadiene	0.452	U	0.452	0.452	r
75-00-3	Chloroethane	0.379	U	0.379	0.379	r
64-17-5	Ethanol	27.1	S	0.531	0.531	r
67-64-1	Acetone	9.84	S	0.421	0.421	r
75-69-4	Trichlorofluoromethane	0.216		0.178	0.178	r
67-63-0	Isopropylalcohol	2.04	S	0.407	0.407	r
107-13-1	Acrylonitrile	0.461	U	0.461	0.461	r
75-09-2	Methylene Chloride	0.863	U	0.863	0.863	r
75-15-0	Carbon Disulfide	0.321	U	0.321	0.321	r
1634-04-4	Methyl tert-butyl ether(MTBE)	0.278	U	0.278	0.278	r
78-93-3	Methyl Ethyl Ketone	0.339	U	0.339	0.339	r
110-54-3	Hexane	0.284	U	0.284	0.284	r
141-78-6	Ethyl acetate	0.278	U	0.278	0.278	r
109-99-9	Tetrahydrofuran	0.339	U	0.339	0.339	r
71-43-2	Benzene	0.313	U	0.313	0.313	r
110-82-7	Cyclohexane	0.291	U	0.291	0.291	r
540-84-1	2,2,4-trimethylpentane	0.215	U	0.215	0.215	r
142-82-5	Heptane	0.244	U	0.244	0.244	r
108-10-1	4-Methyl-2-pentanone(MIBK)	0.244	U	0.244	0.244	r
10061-02-6	trans-1,3-Dichloropropene	0.221	U	0.221	0.221	r
108-88-3	Toluene	1.13		0.266	0.266	r
591-78-6	2-Hexanone(MBK)	0.244	U	0.244	0.244	r
127-18-4	Tetrachloroethene	0.391		0.037	0.037	r
630-20-6	1,1,1,2-Tetrachloroethane	0.146	U	0.146	0.146	r
108-90-7	Chlorobenzene	0.217	U	0.217	0.217	r
100-41-4	Ethylbenzene	0.230	U	0.230	0.230	r
100-42-5	Styrene	0.235	U	0.235	0.235	r
95-47-6	o-Xylene	0.230	U	0.230	0.230	r
98-82-8	Isopropylbenzene	0.204	U	0.204	0.204	r
622-96-8	4-Ethyltoluene	0.204	U	0.204	0.204	r
108-67-8	1,3,5-Trimethylbenzene	0.204	U	0.204	0.204	r
95-63-6	1,2,4-Trimethylbenzene	0.204	U	0.204	0.204	r
91-20-3	Naphthalene	0.200	U	0.200	0.200	r

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

1
AIR ANALYSIS DATA SHEET

CLIENT ID

Client:	<u>AMC-ENG</u>	Lab:	<u>Phoenix Env. Labs</u>	IA-3
SDG No.:	<u>GCS16244</u>	Lab Sample ID:	<u>CS16250</u>	
Canister:	<u>21357</u>	Lab File ID:	<u>1126_13.D</u>	
Instrument:	<u>CHEM24</u>	Column:	<u>RTX-1</u>	Date Received:
				<u>11/26/24</u>
Purge Volume	<u>200</u>	(cc)	Date Analyzed:	<u>11/26/24</u>
Matrix:	<u>AIR</u>	Dilution Factor:	<u>1</u>	

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
76-14-2	1,2-Dichlorotetrafluoroethane(sim)	0.143	U	0.143	0.143	r
75-01-4	Vinyl Chloride(sim)	0.078	U	0.078	0.078	r
74-83-9	Bromomethane(sim)	0.258	U	0.258	0.258	r
107-06-2	1,2-Dichloroethane(sim)	0.247	U	0.247	0.247	r
71-55-6	1,1,1-Trichloroethane(sim)	0.183	U	0.183	0.183	r
56-23-5	Carbon Tetrachloride(sim)	0.078		0.032	0.032	r
75-35-4	1,1-Dichloroethene(sim)	0.051	U	0.051	0.051	r
76-13-1	Trichlorotrifluoroethane(sim)	0.131	U	0.131	0.131	r
156-60-5	Trans-1,2-Dichloroethene(sim)	0.252	U	0.252	0.252	r
75-34-3	1,1-Dichloroethane(sim)	0.247	U	0.247	0.247	r
156-59-2	Cis-1,2-Dichloroethene(sim)	0.051	U	0.051	0.051	r
67-66-3	Chloroform(sim)	0.205	U	0.205	0.205	r
78-87-5	1,2-dichloropropane(sim)	0.217	U	0.217	0.217	r
75-27-4	Bromodichloromethane(sim)	0.149	U	0.149	0.149	r
79-01-6	Trichloroethene(sim)	0.146		0.037	0.037	r
123-91-1	1,4-Dioxane(sim)	0.278	U	0.278	0.278	r
10061-01-5	cis-1,3-Dichloropropene(sim)	0.221	U	0.221	0.221	r
79-00-5	1,1,2-Trichloroethane(sim)	0.183	U	0.183	0.183	r
124-48-1	Dibromochloromethane(sim)	0.118	U	0.118	0.118	r
106-93-4	1,2-Dibromoethane(EDB)(sim)	0.130	U	0.130	0.130	r
75-25-2	Bromoform(sim)	0.097	U	0.097	0.097	r
179601-23-1	m,p-Xylene(sim)	0.251		0.230	0.230	r
79-34-5	1,1,2,2-Tetrachloroethane(sim)	0.146	U	0.146	0.146	r
100-44-7	Benzyl chloride(sim)	0.193	U	0.193	0.193	r
541-73-1	1,3-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
106-46-7	1,4-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
135-98-8	sec-Butylbenzene(sim)	0.182	U	0.182	0.182	r
99-87-6	4-Isopropyltoluene(sim)	0.182	U	0.182	0.182	r
95-50-1	1,2-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
104-51-8	n-Butylbenzene(sim)	0.182	U	0.182	0.182	r
120-82-1	1,2,4-Trichlorobenzene(sim)	0.135	U	0.135	0.135	r
87-68-3	Hexachlorobutadiene(sim)	0.094	U	0.094	0.094	r

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

Data Path : H:\AIR2024\CHEM24\11NOV\26\
 Data File : 1126_13.D
 Acq On : 26 Nov 2024 10:29 pm
 Operator : Keith
 Client ID : IA-3
 Lab ID : CS16250
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Nov 27 08:45:03 2024
 Quant Method : H:\AIR2024\CHEM24\Methods\24_AIR_1018.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Mon Oct 21 10:04:28 2024
 Response via : Initial Calibration

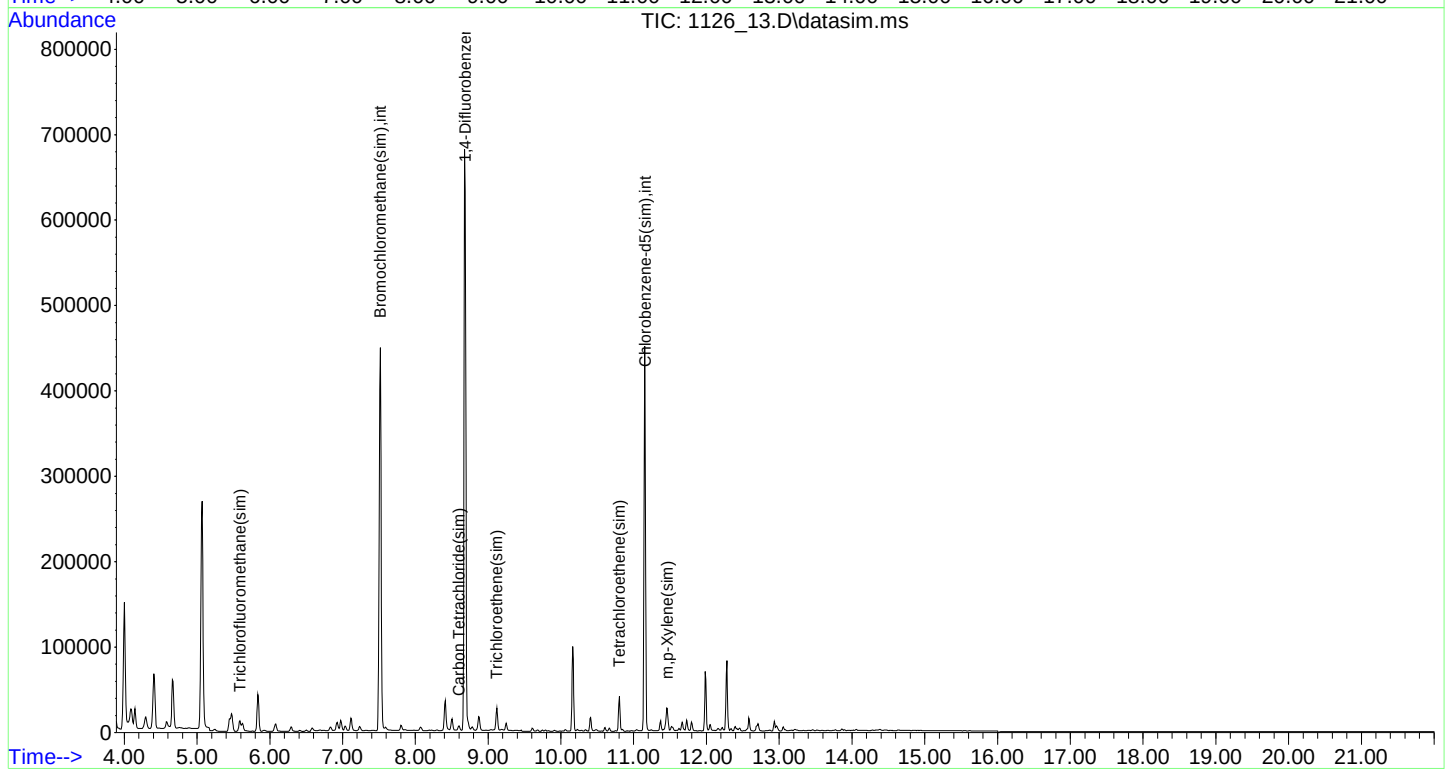
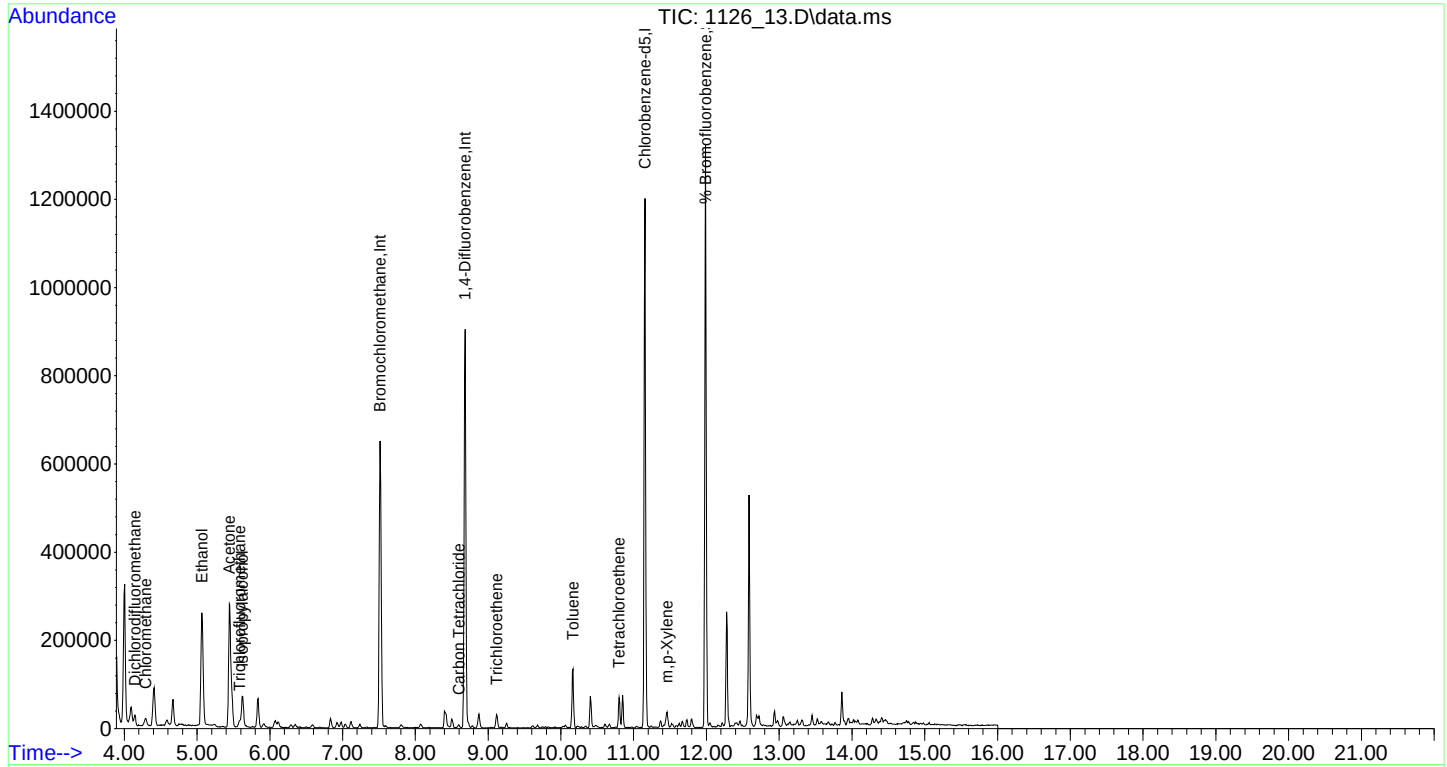
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

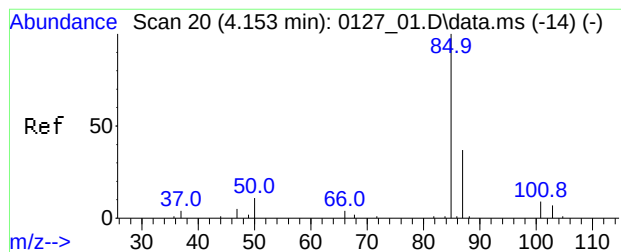
Internal Standards						
1) Bromochloromethane	7.515	130	194662	10.000	ng	0.00
37) 1,4-Difluorobenzene	8.683	114	613287	10.000	ng	0.00
54) Chlorobenzene-d5	11.155	82	260714	10.000	ng	0.00
81) Bromochloromethane(sim)	7.518	130	197078	10.000	ng	# 0.00
96) 1,4-Difluorobenzene(sim)	8.683	114	613287	10.000	ng	0.00
106) Chlorobenzene-d5(sim)	11.155	82	260714	10.000	ng	# 0.00
System Monitoring Compounds						
63) % Bromofluorobenzene	11.989	95	336828	9.983	ppbv	0.00
Spiked Amount	10.000	Range 70 - 130	Recovery	=	99.80%	
Target Compounds						
					Qvalue	
3) Dichlorodifluoromethane	4.145	85	23452	0.466	ppbv#	96
4) Chloromethane	4.294	50	15489	0.624	ppbv	97
11) Ethanol	5.065	45	306888	27.132	ppbv	93
12) Acetone	5.443	43	378615	9.844	ppbv	90
13) Trichlorofluoromethane	5.584	101	11973	0.216	ppbv	98
14) Isopropylalcohol	5.621	45	97705	2.044	ppbv#	86
35) Carbon Tetrachloride	8.597	117	3615	0.072	ppbv	92
40) Trichloroethene	9.116	130	4243	0.138	ppbv	95
49) Toluene	10.166	91	75455	1.125	ppbv	99
53) Tetrachloroethene	10.799	166	16223	0.391	ppbv	97
58) m,p-Xylene	11.458	91	18251	0.306	ppbv	98
85] Trichlorofluoromethane...	5.587	101	12438	0.215	ppbv#	99
89] Carbon Tetrachloride(sim)	8.600	117	3963	0.078	ppbv	99
99] Trichloroethene(sim)	9.119	130	4650	0.146	ppbv	100
105] Tetrachloroethene(sim)	10.802	166	17381	0.393	ppbv	98
108] m,p-Xylene(sim)	11.458	91	18251	0.251	ppbv	98

(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Data Path : H:\AIR2024\CHEM24\11NOV\26\
Data File : 1126_13.D
Acq On : 26 Nov 2024 10:29 pm
Operator : Keith
Client ID : IA-3
Lab ID : CS16250
ALS Vial : 14 Sample Multiplier: 1

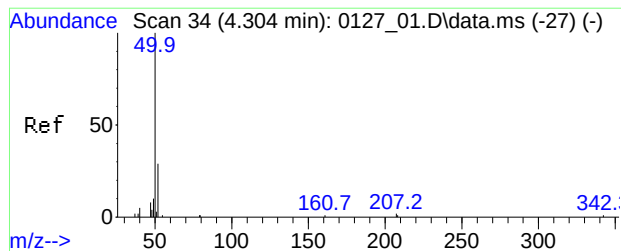
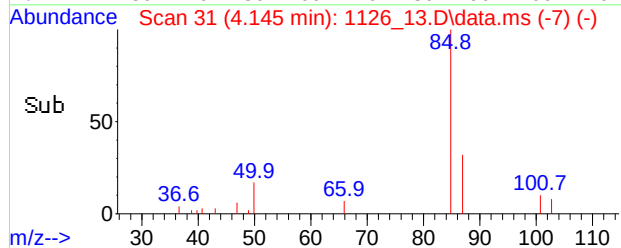
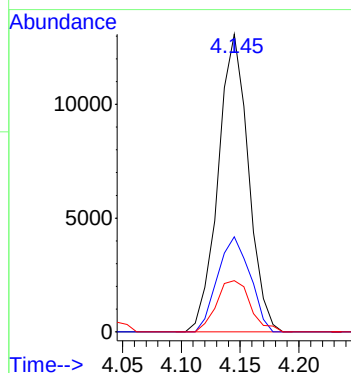
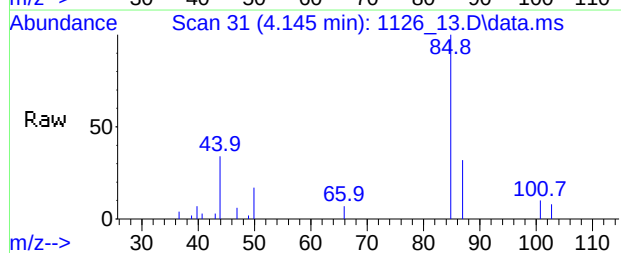
Quant Time: Nov 27 08:45:03 2024
Quant Method : H:\AIR2024\CHEM24\Methods\24_AIR_1018.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Mon Oct 21 10:04:28 2024
Response via : Initial Calibration





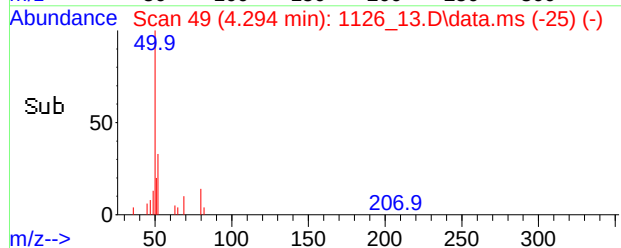
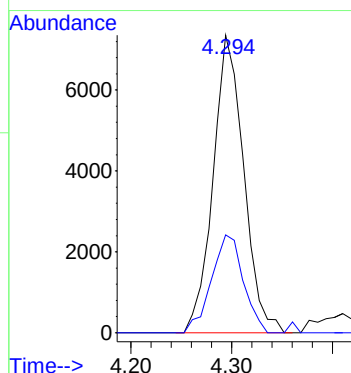
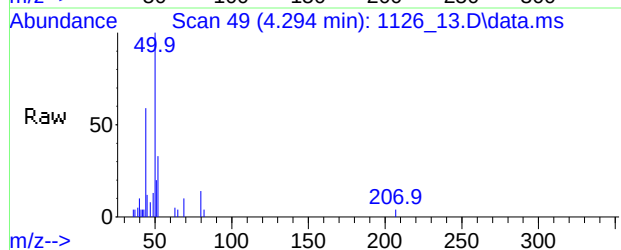
#3
Dichlorodifluoromethane
Conc: 8\$ 0.466 ppbv
RT: 4.145 min Scan# 31
Delta R.T. -0.000 min
Lab File: 1126_13.D
Acq: 26 Nov 2024 10:29 pm

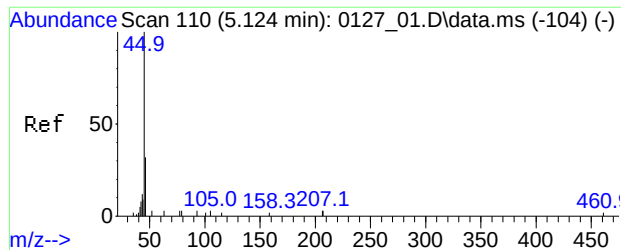
Tgt Ion: 85 Resp: 23452
Ion Ratio Lower Upper
85 100
87 34.3 26.9 40.3
50 19.3 12.0 18.0#



#4
Chloromethane
Conc: 8\$ 0.624 ppbv
RT: 4.294 min Scan# 49
Delta R.T. -0.000 min
Lab File: 1126_13.D
Acq: 26 Nov 2024 10:29 pm

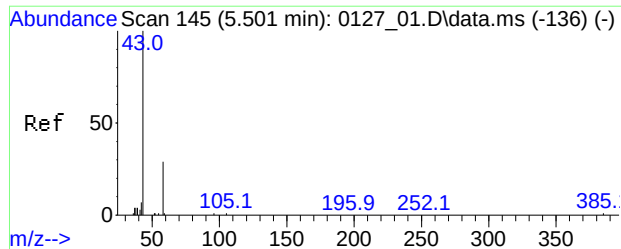
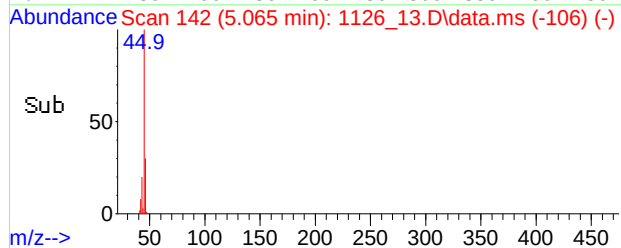
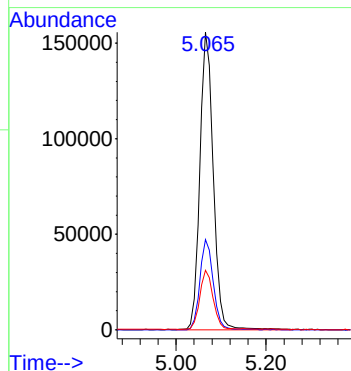
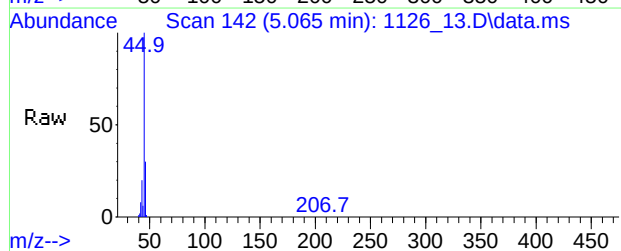
Tgt Ion: 50 Resp: 15489
Ion Ratio Lower Upper
50 100
52 34.2 12.8 52.8





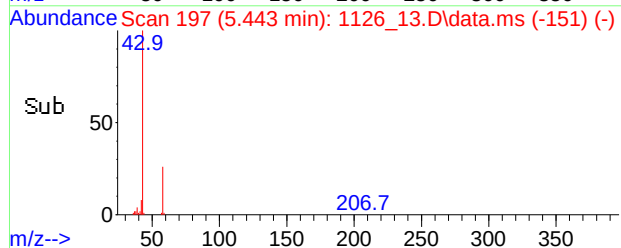
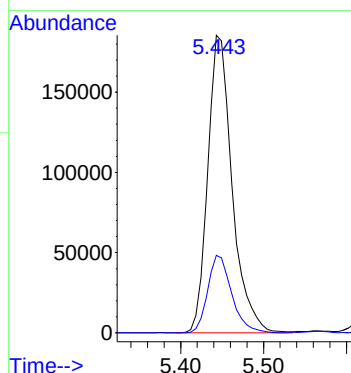
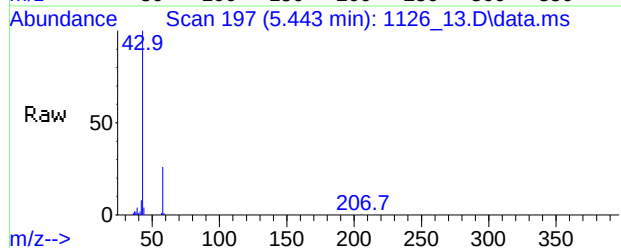
#11
Ethanol
Conc: 8\$ 27.132 ppbv
RT: 5.065 min Scan# 142
Delta R.T. -0.000 min
Lab File: 1126_13.D
Acq: 26 Nov 2024 10:29 pm

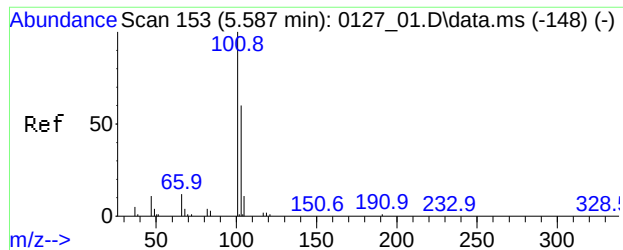
Tgt Ion: 45 Resp: 306888
Ion Ratio Lower Upper
45 100
46 34.1 25.0 37.6
43 20.6 20.0 30.0



#12
Acetone
Conc: 8\$ 9.844 ppbv
RT: 5.443 min Scan# 197
Delta R.T. -0.000 min
Lab File: 1126_13.D
Acq: 26 Nov 2024 10:29 pm

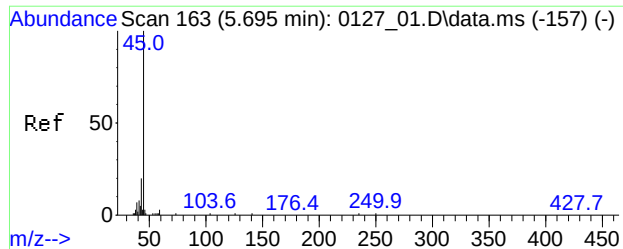
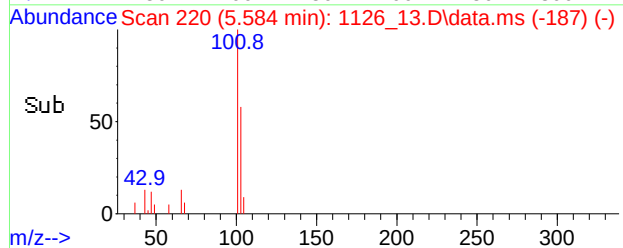
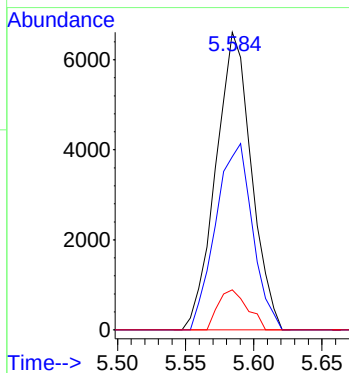
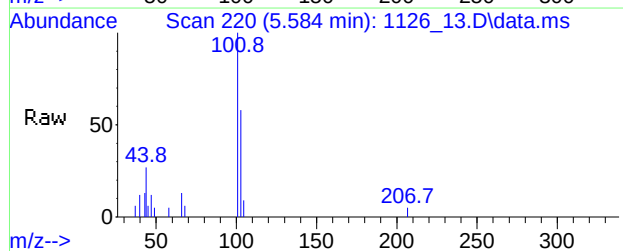
Tgt Ion: 43 Resp: 378615
Ion Ratio Lower Upper
43 100
58 25.5 24.6 37.0





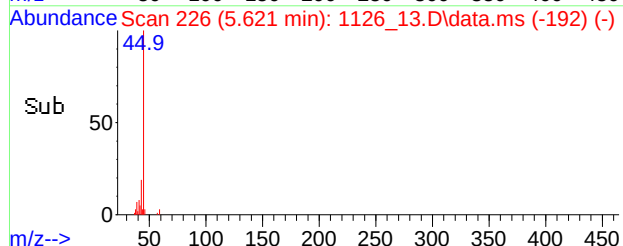
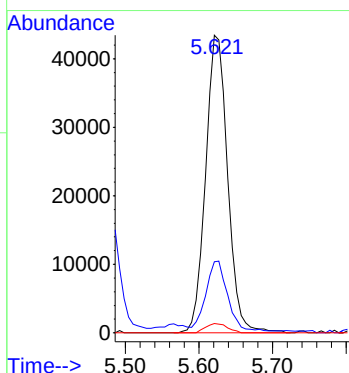
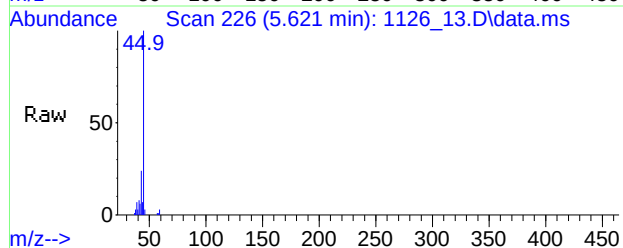
#13
Trichlorofluoromethane
Conc: 8\$ 0.216 ppbv
RT: 5.584 min Scan# 220
Delta R.T. -0.000 min
Lab File: 1126_13.D
Acq: 26 Nov 2024 10:29 pm

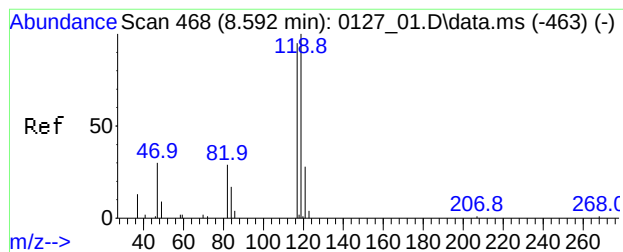
Tgt Ion	Ratio	Lower	Upper
101	100		
103	65.0	53.4	80.2
66	11.0	9.3	13.9



#14
Isopropylalcohol
Conc: 8\$ 2.044 ppbv
RT: 5.621 min Scan# 226
Delta R.T. 0.006 min
Lab File: 1126_13.D
Acq: 26 Nov 2024 10:29 pm

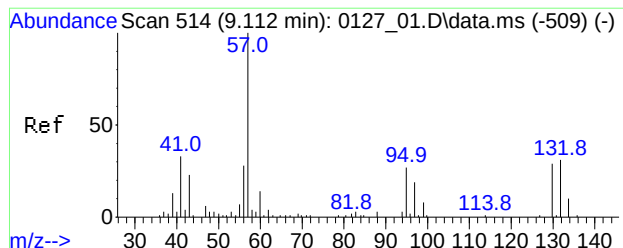
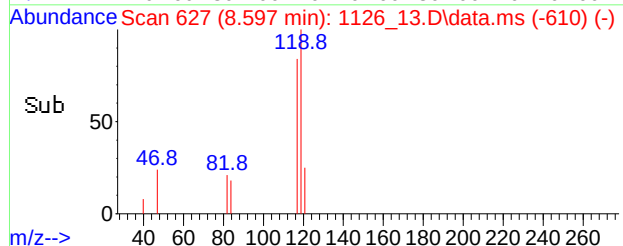
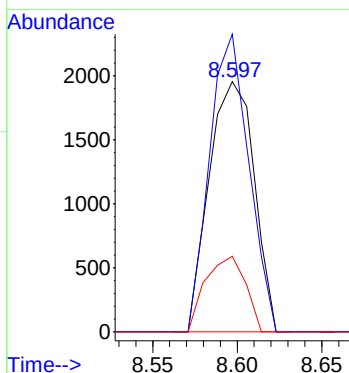
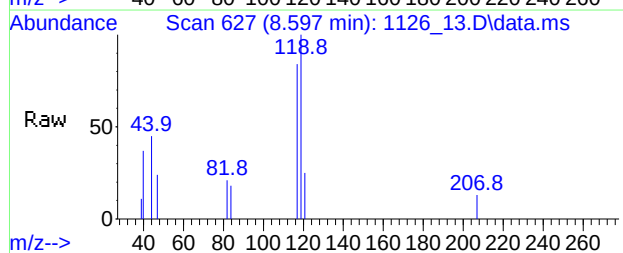
Tgt Ion	Ratio	Lower	Upper
45	100		
43	23.5	13.3	19.9#
59	2.9	2.6	4.0





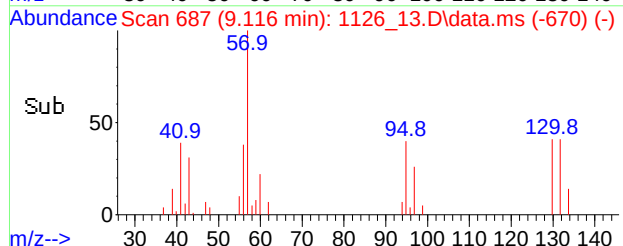
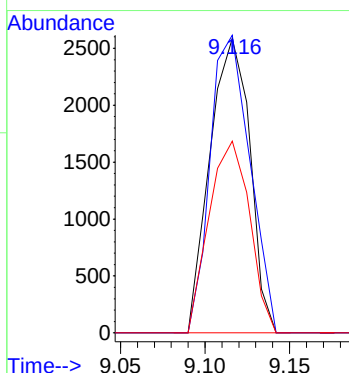
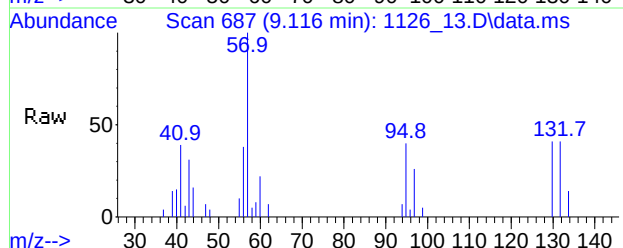
#35
Carbon Tetrachloride
Conc: 8\$ Below Cal
RT: 8.597 min Scan# 627
Delta R.T. -0.000 min
Lab File: 1126_13.D
Acq: 26 Nov 2024 10:29 pm

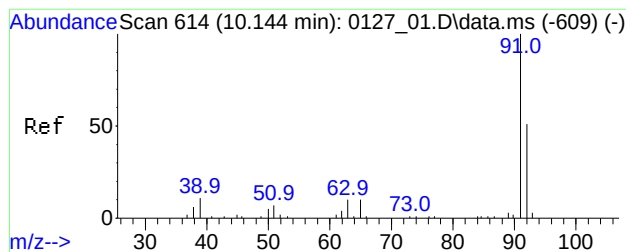
Tgt Ion:117 Resp: 3615
Ion Ratio Lower Upper
117 100
119 103.7 76.5 116.5
121 26.7 11.2 51.2



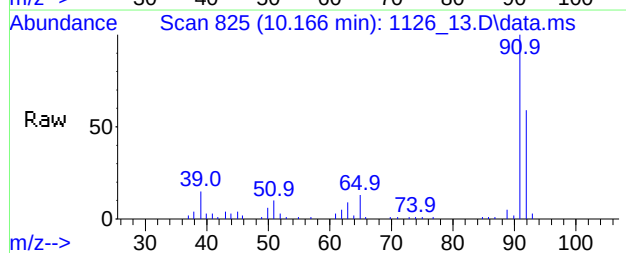
#40
Trichloroethene
Conc: 8\$ Below Cal
RT: 9.116 min Scan# 687
Delta R.T. -0.000 min
Lab File: 1126_13.D
Acq: 26 Nov 2024 10:29 pm

Tgt Ion:130 Resp: 4243
Ion Ratio Lower Upper
130 100
132 100.8 77.9 116.9
97 66.3 48.3 72.5

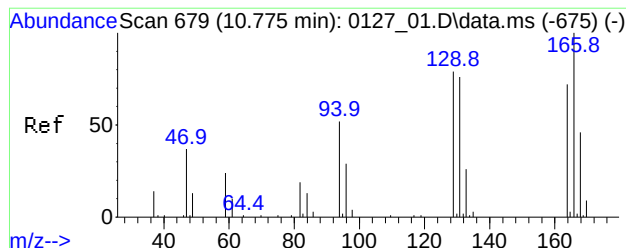
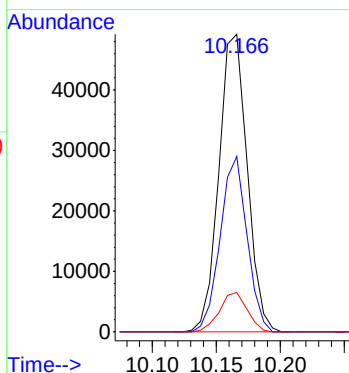
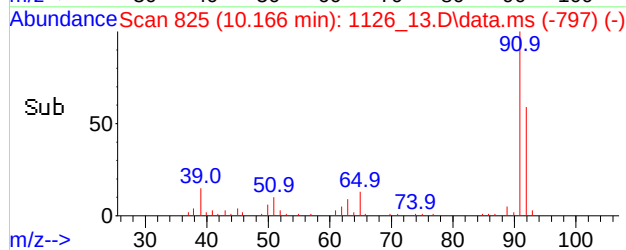




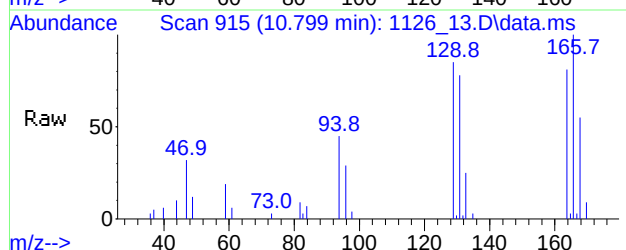
#49
Toluene
Conc: 8\$ 1.125 ppbv
RT: 10.166 min Scan# 825
Delta R.T. -0.000 min
Lab File: 1126_13.D
Acq: 26 Nov 2024 10:29 pm



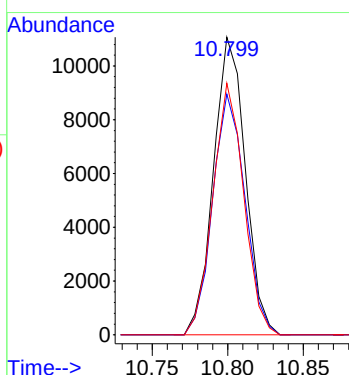
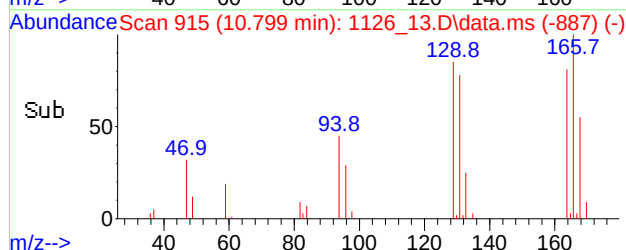
Tgt Ion: 91 Resp: 75455
Ion Ratio Lower Upper
91 100
92 55.7 45.0 67.4
65 13.0 9.4 14.2

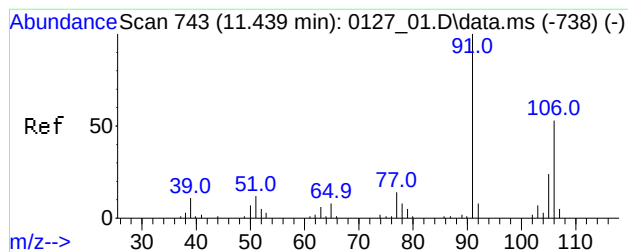


#53
Tetrachloroethene
Conc: 8\$ 0.391 ppbv
RT: 10.799 min Scan# 915
Delta R.T. -0.000 min
Lab File: 1126_13.D
Acq: 26 Nov 2024 10:29 pm



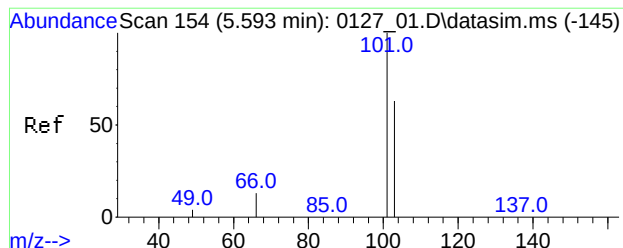
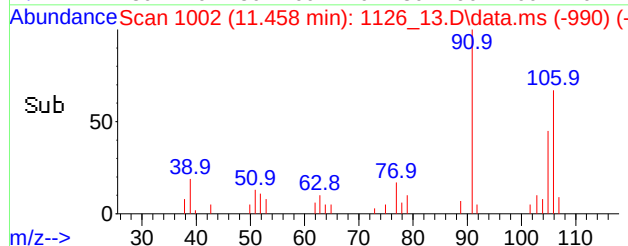
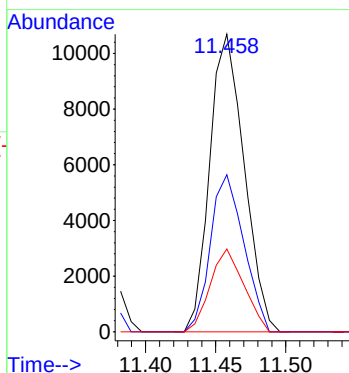
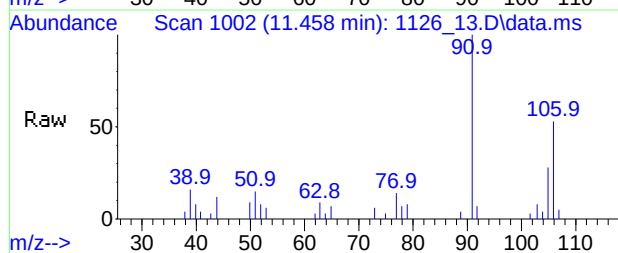
Tgt Ion: 166 Resp: 16223
Ion Ratio Lower Upper
166 100
164 82.2 64.7 97.1
129 82.1 62.2 93.2





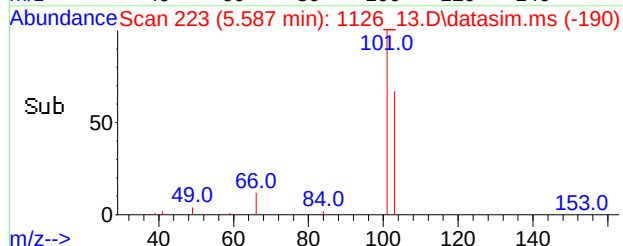
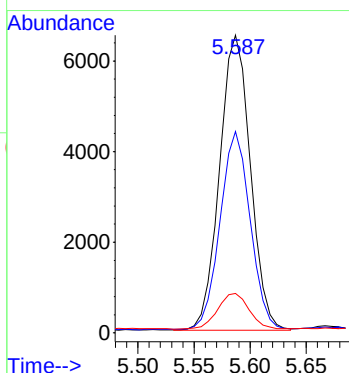
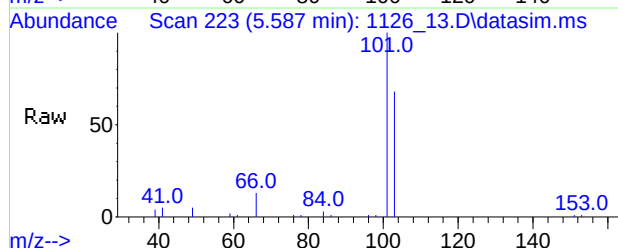
#58
m,p-Xylene
Conc: 8\$ 0.306 ppbv
RT: 11.458 min Scan# 1002
Delta R.T. -0.008 min
Lab File: 1126_13.D
Acq: 26 Nov 2024 10:29 pm

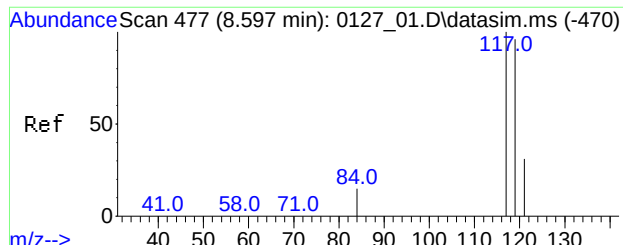
Tgt Ion: 91 Resp: 18251
Ion Ratio Lower Upper
91 100
106 51.3 41.1 61.7
105 27.2 19.5 29.3



#85
Trichlorofluoromethane(sim)
Conc: 8\$ 0.215 ppbv
RT: 5.587 min Scan# 223
Delta R.T. -0.000 min
Lab File: 1126_13.D
Acq: 26 Nov 2024 10:29 pm

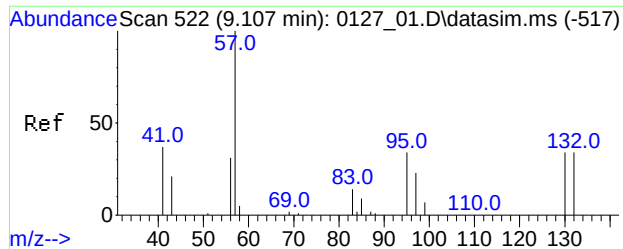
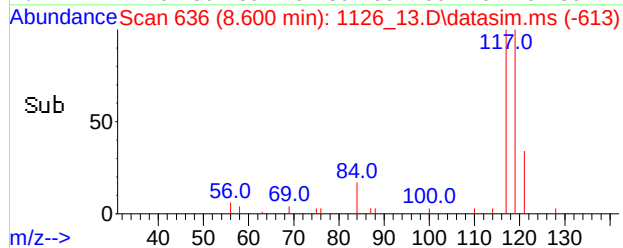
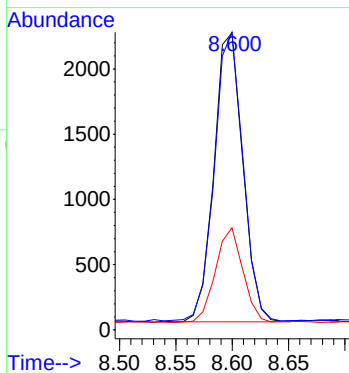
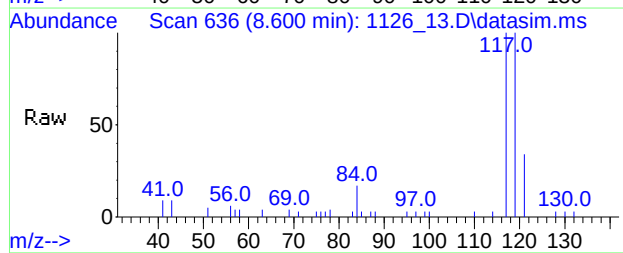
Tgt Ion: 101 Resp: 12438
Ion Ratio Lower Upper
101 100
103 66.4 52.4 78.6
66 12.2 11.4 11.4#





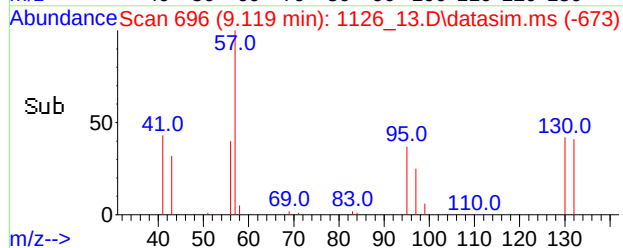
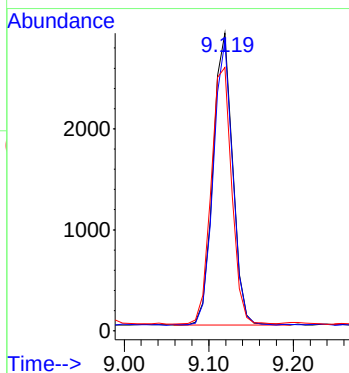
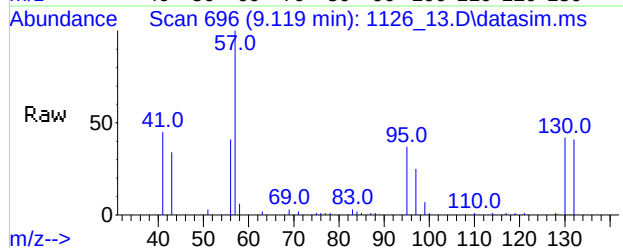
#89
Carbon Tetrachloride(sim)
Conc: 8\$ 0.078 ppbv
RT: 8.600 min Scan# 636
Delta R.T. -0.000 min
Lab File: 1126_13.D
Acq: 26 Nov 2024 10:29 pm

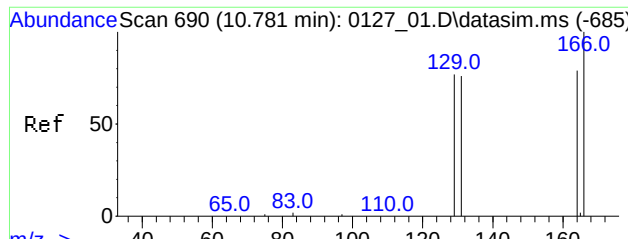
Tgt Ion:117 Resp: 3963
Ion Ratio Lower Upper
117 100
119 98.3 77.4 116.2
121 31.3 24.9 37.3



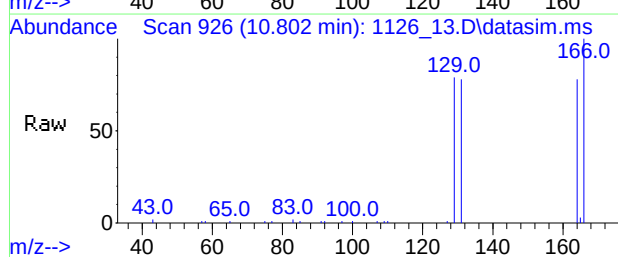
#99
Trichloroethene(sim)
Conc: 8\$ 0.146 ppbv
RT: 9.119 min Scan# 696
Delta R.T. -0.000 min
Lab File: 1126_13.D
Acq: 26 Nov 2024 10:29 pm

Tgt Ion:130 Resp: 4650
Ion Ratio Lower Upper
130 100
132 96.2 77.5 116.3
95 92.3 73.8 110.6

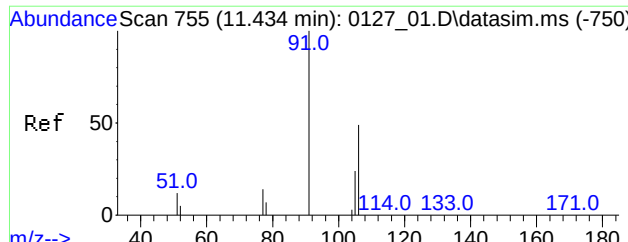
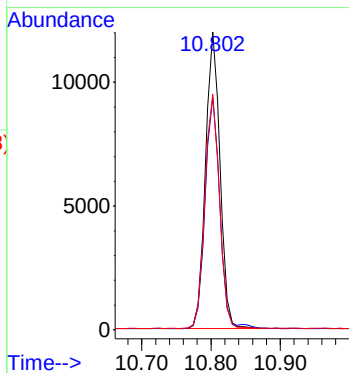




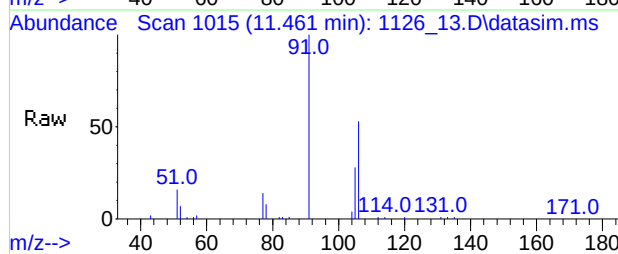
#105
Tetrachloroethene(sim)
Conc: 8\$ 0.393 ppbv
RT: 10.802 min Scan# 926
Delta R.T. -0.000 min
Lab File: 1126_13.D
Acq: 26 Nov 2024 10:29 pm



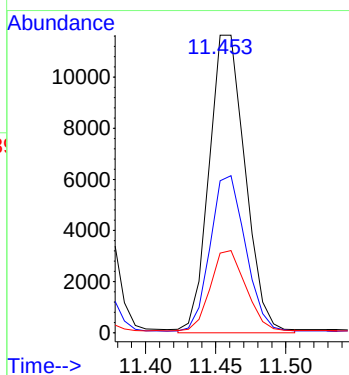
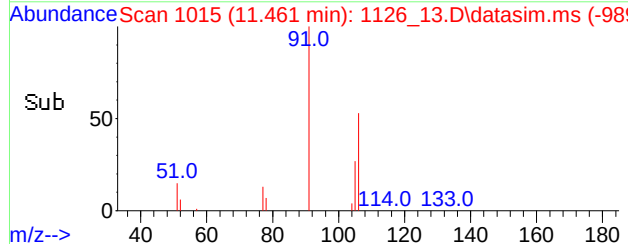
Tgt Ion: 166 Resp: 17381
Ion Ratio Lower Upper
166 100
164 79.3 58.0 98.0
129 79.5 58.0 98.0



#108
m,p-Xylene(sim)
Conc: 8\$ 0.251 ppbv
RT: 11.458 min Scan# 1015
Delta R.T. -0.008 min
Lab File: 1126_13.D
Acq: 26 Nov 2024 10:29 pm



Tgt Ion: 91 Resp: 18251
Ion Ratio Lower Upper
91 100
106 51.3 46.3 56.5
105 27.2 19.5 29.3



1
AIR ANALYSIS DATA SHEET

CLIENT ID

OA-1

Client: AMC-ENG Lab: Phoenix Env. Labs

SDG No.: GCS16244

Lab Sample ID: CS16251

Canister: 16001

Lab File ID: 1126_14.D

Instrument: CHEM24 Column: RTX-1

Date Received: 11/26/24

Purge Volume 200 (cc)

Date Analyzed: 11/26/24

Matrix: AIR

Dilution Factor: 1

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
115-07-1	Propylene	0.581	U	0.581	0.581	r
75-71-8	Dichlorodifluoromethane	0.479		0.202	0.202	r
74-87-3	Chloromethane	0.612		0.485	0.485	r
106-99-0	1,3-Butadiene	0.452	U	0.452	0.452	r
75-00-3	Chloroethane	0.379	U	0.379	0.379	r
64-17-5	Ethanol	10.7	S	0.531	0.531	r
67-64-1	Acetone	4.02	S	0.421	0.421	r
75-69-4	Trichlorofluoromethane	0.215		0.178	0.178	r
67-63-0	Isopropylalcohol	0.846	S	0.407	0.407	r
107-13-1	Acrylonitrile	0.461	U	0.461	0.461	r
75-09-2	Methylene Chloride	0.863	U	0.863	0.863	r
75-15-0	Carbon Disulfide	0.321	U	0.321	0.321	r
1634-04-4	Methyl tert-butyl ether(MTBE)	0.278	U	0.278	0.278	r
78-93-3	Methyl Ethyl Ketone	0.339	U	0.339	0.339	r
110-54-3	Hexane	0.284	U	0.284	0.284	r
141-78-6	Ethyl acetate	0.278	U	0.278	0.278	r
109-99-9	Tetrahydrofuran	0.339	U	0.339	0.339	r
71-43-2	Benzene	0.313	U	0.313	0.313	r
110-82-7	Cyclohexane	0.291	U	0.291	0.291	r
540-84-1	2,2,4-trimethylpentane	0.215	U	0.215	0.215	r
142-82-5	Heptane	0.244	U	0.244	0.244	r
108-10-1	4-Methyl-2-pentanone(MIBK)	0.244	U	0.244	0.244	r
10061-02-6	trans-1,3-Dichloropropene	0.221	U	0.221	0.221	r
108-88-3	Toluene	0.389		0.266	0.266	r
591-78-6	2-Hexanone(MBK)	0.244	U	0.244	0.244	r
630-20-6	1,1,1,2-Tetrachloroethane	0.146	U	0.146	0.146	r
108-90-7	Chlorobenzene	0.217	U	0.217	0.217	r
100-41-4	Ethylbenzene	0.230	U	0.230	0.230	r
100-42-5	Styrene	0.235	U	0.235	0.235	r
95-47-6	o-Xylene	0.230	U	0.230	0.230	r
98-82-8	Isopropylbenzene	0.204	U	0.204	0.204	r
622-96-8	4-Ethyltoluene	0.204	U	0.204	0.204	r
108-67-8	1,3,5-Trimethylbenzene	0.204	U	0.204	0.204	r
95-63-6	1,2,4-Trimethylbenzene	0.204	U	0.204	0.204	r
91-20-3	Naphthalene	0.200	U	0.200	0.200	r
76-14-2	1,2-Dichlorotetrafluoroethane(sim)	0.143	U	0.143	0.143	r

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

1
AIR ANALYSIS DATA SHEET

CLIENT ID

OA-1

Client: AMC-ENG Lab: Phoenix Env. Labs

SDG No.: GCS16244 Lab Sample ID: CS16251

Canister: 16001 Lab File ID: 1126_14.D

Instrument: CHEM24 Column: RTX-1 Date Received: 11/26/24

Purge Volume 200 (cc) Date Analyzed: 11/26/24

Matrix: AIR Dilution Factor: 1

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
75-01-4	Vinyl Chloride(sim)	0.078	U	0.078	0.078	r
74-83-9	Bromomethane(sim)	0.258	U	0.258	0.258	r
107-06-2	1,2-Dichloroethane(sim)	0.247	U	0.247	0.247	r
71-55-6	1,1,1-Trichloroethane(sim)	0.183	U	0.183	0.183	r
56-23-5	Carbon Tetrachloride(sim)	0.076		0.032	0.032	r
75-35-4	1,1-Dichloroethene(sim)	0.051	U	0.051	0.051	r
76-13-1	Trichlorotrifluoroethane(sim)	0.131	U	0.131	0.131	r
156-60-5	Trans-1,2-Dichloroethene(sim)	0.252	U	0.252	0.252	r
75-34-3	1,1-Dichloroethane(sim)	0.247	U	0.247	0.247	r
156-59-2	Cis-1,2-Dichloroethene(sim)	0.051	U	0.051	0.051	r
67-66-3	Chloroform(sim)	0.205	U	0.205	0.205	r
78-87-5	1,2-dichloropropane(sim)	0.217	U	0.217	0.217	r
75-27-4	Bromodichloromethane(sim)	0.149	U	0.149	0.149	r
79-01-6	Trichloroethene(sim)	0.037		0.037	0.037	r
123-91-1	1,4-Dioxane(sim)	0.278	U	0.278	0.278	r
10061-01-5	cis-1,3-Dichloropropene(sim)	0.221	U	0.221	0.221	r
79-00-5	1,1,2-Trichloroethane(sim)	0.183	U	0.183	0.183	r
124-48-1	Dibromochloromethane(sim)	0.118	U	0.118	0.118	r
106-93-4	1,2-Dibromoethane(EDB)(sim)	0.130	U	0.130	0.130	r
127-18-4	Tetrachloroethene(sim)	0.149		0.037	0.037	r
75-25-2	Bromoform(sim)	0.097	U	0.097	0.097	r
179601-23-1	m,p-Xylene(sim)	0.230	U	0.230	0.230	r
79-34-5	1,1,2,2-Tetrachloroethane(sim)	0.146	U	0.146	0.146	r
100-44-7	Benzyl chloride(sim)	0.193	U	0.193	0.193	r
541-73-1	1,3-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
106-46-7	1,4-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
135-98-8	sec-Butylbenzene(sim)	0.182	U	0.182	0.182	r
99-87-6	4-Isopropyltoluene(sim)	0.182	U	0.182	0.182	r
95-50-1	1,2-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
104-51-8	n-Butylbenzene(sim)	0.182	U	0.182	0.182	r
120-82-1	1,2,4-Trichlorobenzene(sim)	0.135	U	0.135	0.135	r
87-68-3	Hexachlorobutadiene(sim)	0.094	U	0.094	0.094	r

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

Data Path : H:\AIR2024\CHEM24\11NOV\26\
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 Operator : Keith
 Client ID : 0A-1
 Lab ID : CS16251
 ALS Vial : 15 Sample Multiplier: 1

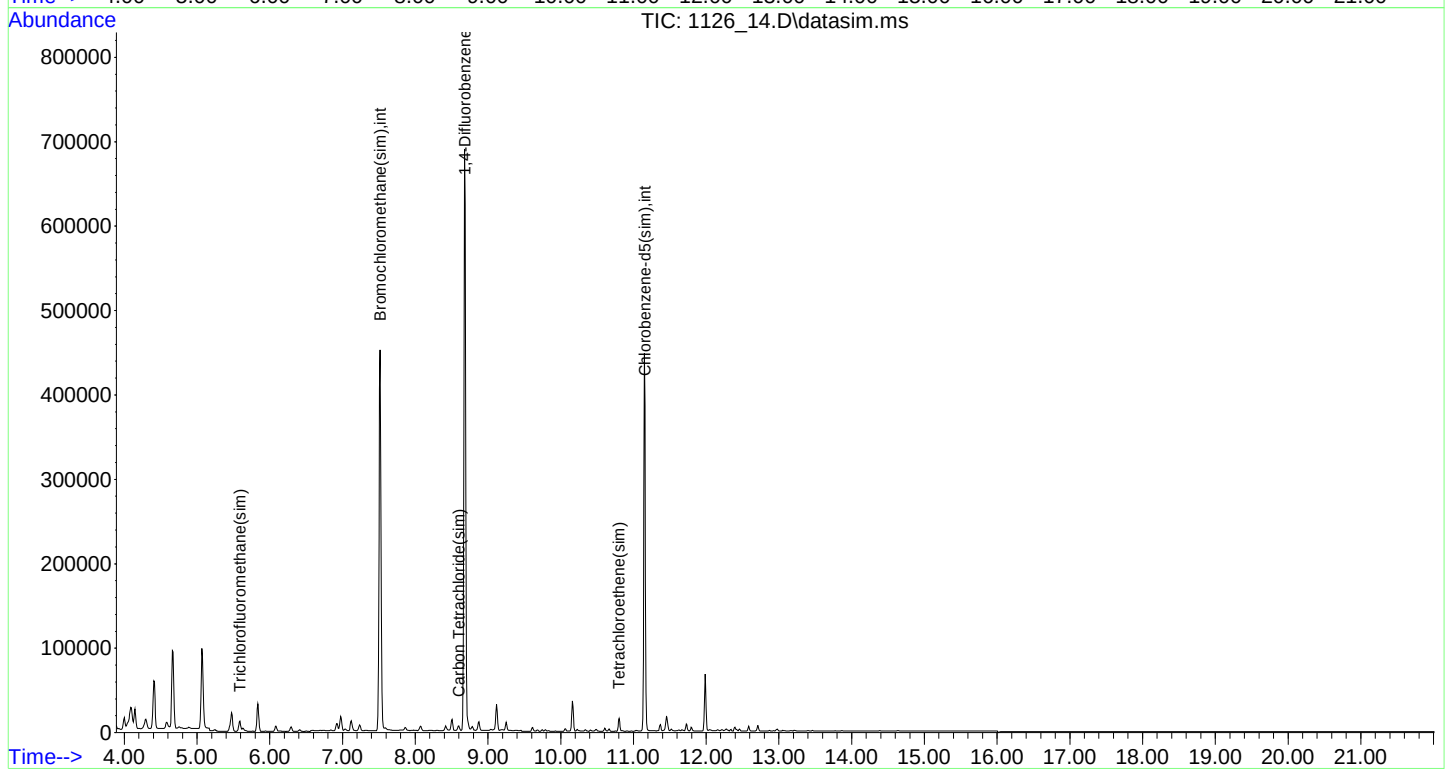
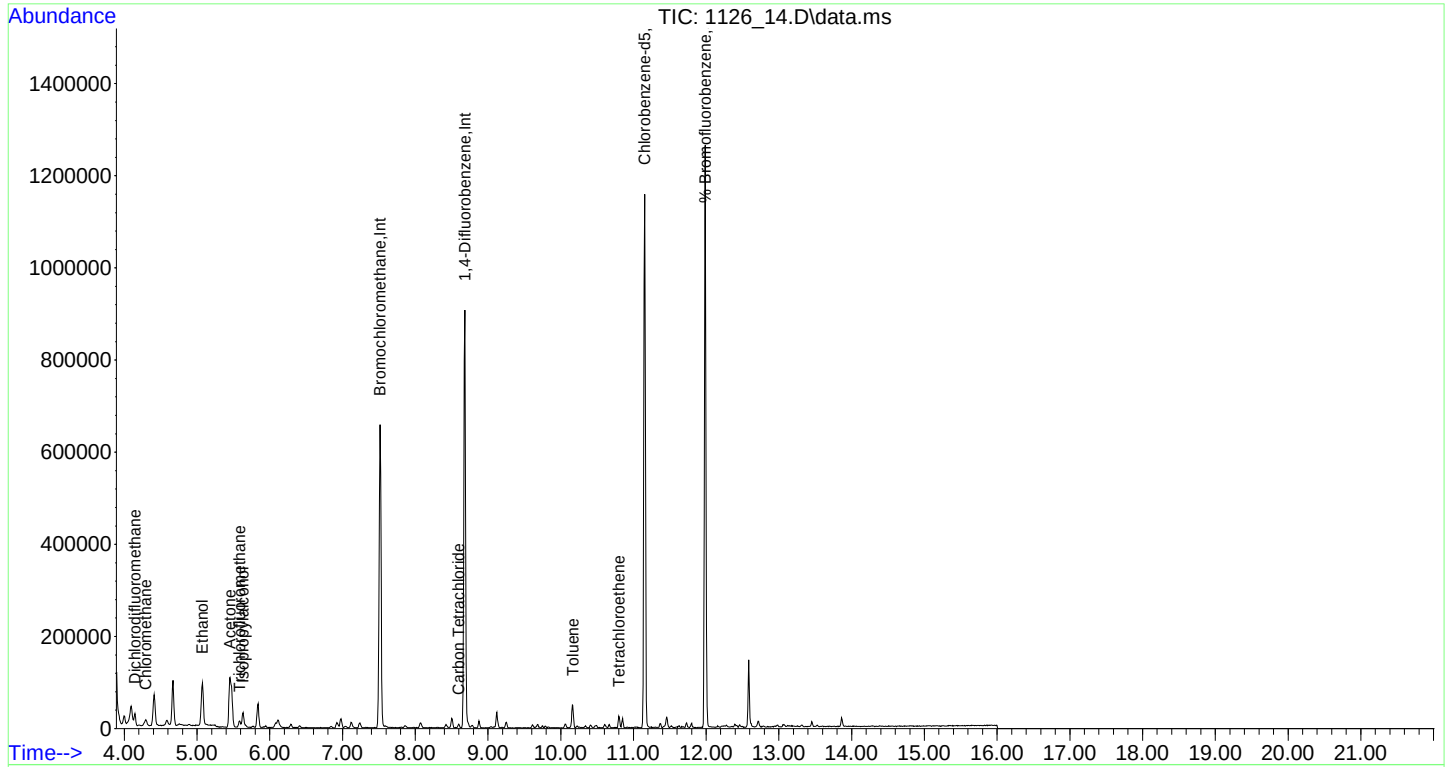
Quant Time: Nov 27 08:45:41 2024
 Quant Method : H:\AIR2024\CHEM24\Methods\24_AIR_1018.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Mon Oct 21 10:04:28 2024
 Response via : Initial Calibration

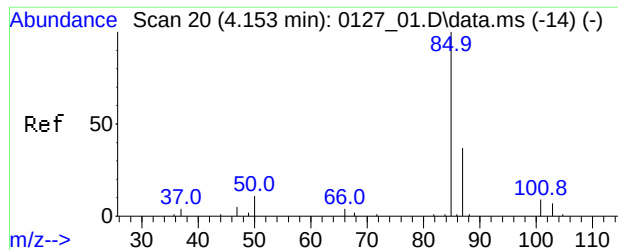
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	7.515	130	194429	10.000	ng	0.00
37) 1,4-Difluorobenzene	8.684	114	608585	10.000	ng	0.00
54) Chlorobenzene-d5	11.155	82	262518	10.000	ng	0.00
81) Bromochloromethane(sim)	7.518	130	198773	10.000	ng	# 0.00
96) 1,4-Difluorobenzene(sim)	8.684	114	608585	10.000	ng	0.00
106) Chlorobenzene-d5(sim)	11.155	82	262518	10.000	ng	# 0.00
System Monitoring Compounds						
63) % Bromofluorobenzene	11.989	95	328794	9.678	ppbv	0.00
Spiked Amount	10.000	Range 70 - 130	Recovery	=	96.80%	
Target Compounds						
					Qvalue	
3) Dichlorodifluoromethane	4.145	85	24082	0.479	ppbv#	96
4) Chloromethane	4.294	50	15173	0.612	ppbv	98
11) Ethanol	5.074	45	121122	10.721	ppbv#	92
12) Acetone	5.449	43	154562	4.023	ppbv#	86
13) Trichlorofluoromethane	5.584	101	11948	0.215	ppbv	97
14) Isopropylalcohol	5.633	45	40400	0.846	ppbv#	88
35) Carbon Tetrachloride	8.597	117	3893	0.078	ppbv	96
49) Toluene	10.166	91	25879	0.389	ppbv#	96
53) Tetrachloroethene	10.800	166	6267	0.152	ppbv	97
85] Trichlorofluoromethane...	5.587	101	12459	0.214	ppbv#	100
89] Carbon Tetrachloride(sim)	8.600	117	3905	0.076	ppbv	98
99] Trichloroethene(sim)	9.119	130	1154	0.037	ppbv	98
105] Tetrachloroethene(sim)	10.802	166	6548	0.149	ppbv	99

(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Data Path : H:\AIR2024\CHEM24\11NOV\26\
Data File : 1126_14.D
Acq On : 26 Nov 2024 11:07 pm
Operator : Keith
Client ID : 0A-1
Lab ID : CS16251
ALS Vial : 15 Sample Multiplier: 1

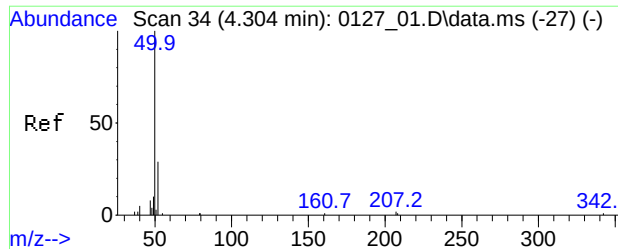
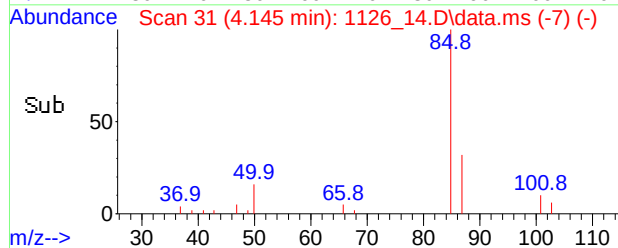
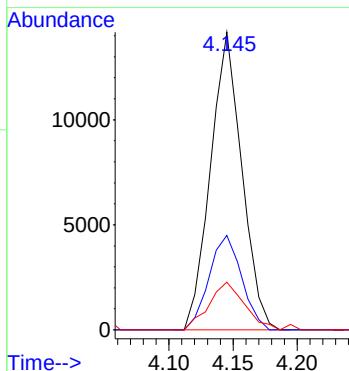
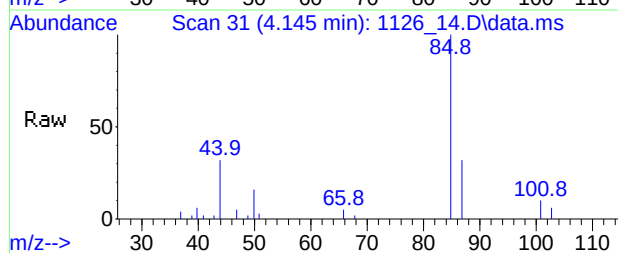
Quant Time: Nov 27 08:45:41 2024
Quant Method : H:\AIR2024\CHEM24\Methods\24_AIR_1018.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Mon Oct 21 10:04:28 2024
Response via : Initial Calibration





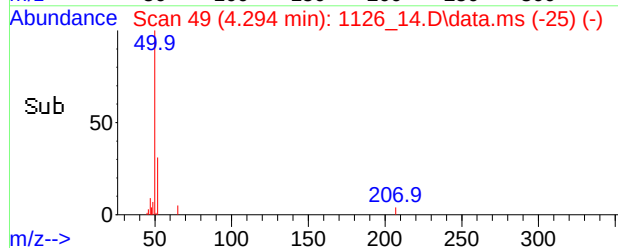
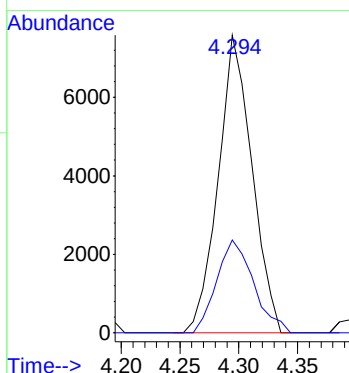
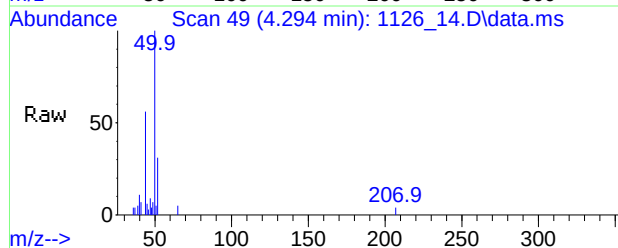
#3
Dichlorodifluoromethane
Conc: 8\$ 0.479 ppbv
RT: 4.145 min Scan# 31
Delta R.T. 0.000 min
Lab File: 1126_14.D
Acq: 26 Nov 2024 11:07 pm

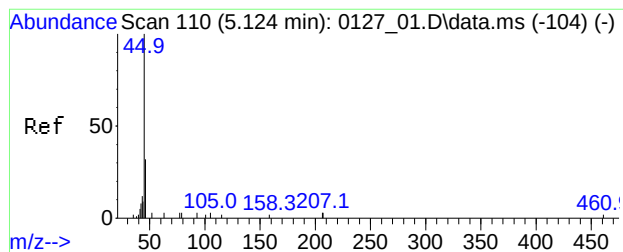
Tgt Ion: 85 Resp: 24082
Ion Ratio Lower Upper
85 100
87 32.9 26.9 40.3
50 18.7 12.0 18.0#



#4
Chloromethane
Conc: 8\$ 0.612 ppbv
RT: 4.294 min Scan# 49
Delta R.T. 0.000 min
Lab File: 1126_14.D
Acq: 26 Nov 2024 11:07 pm

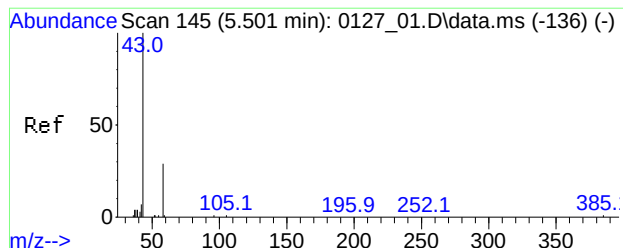
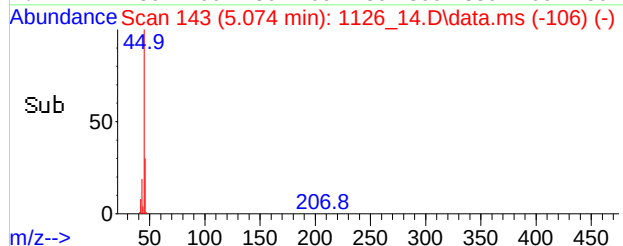
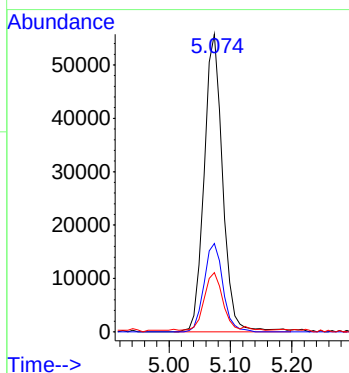
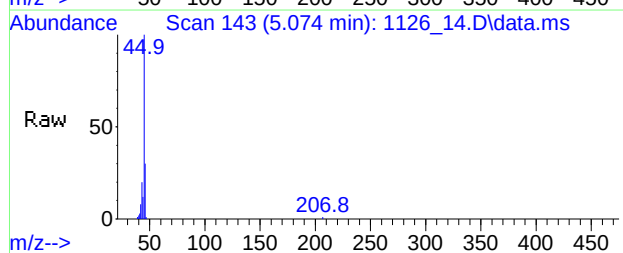
Tgt Ion: 50 Resp: 15173
Ion Ratio Lower Upper
50 100
52 34.1 12.8 52.8





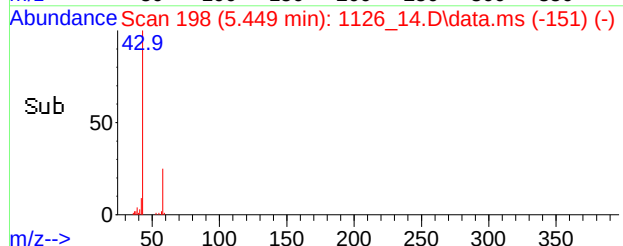
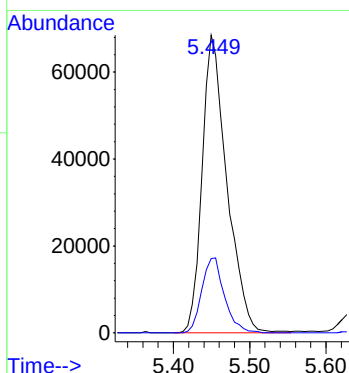
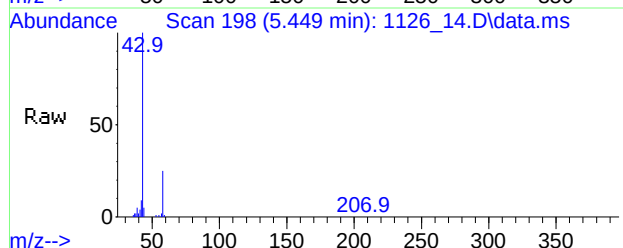
#11
Ethanol
Conc: 8\$ 10.721 ppbv
RT: 5.074 min Scan# 143
Delta R.T. 0.008 min
Lab File: 1126_14.D
Acq: 26 Nov 2024 11:07 pm

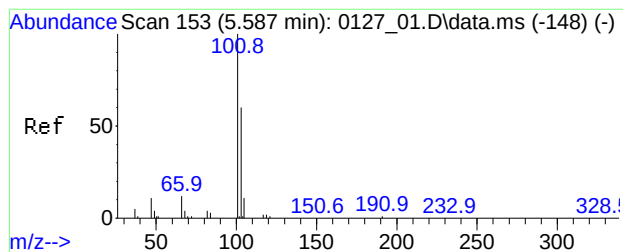
Tgt Ion: 45 Resp: 121122
Ion Ratio Lower Upper
45 100
46 29.1 25.0 37.6
43 18.0 20.0 30.0#



#12
Acetone
Conc: 8\$ 4.023 ppbv
RT: 5.449 min Scan# 198
Delta R.T. 0.006 min
Lab File: 1126_14.D
Acq: 26 Nov 2024 11:07 pm

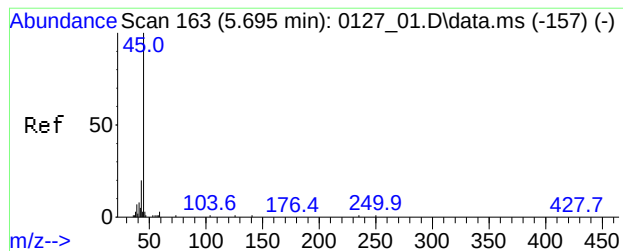
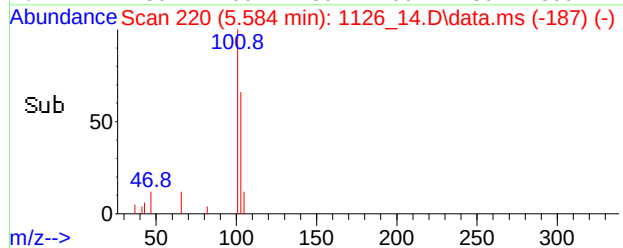
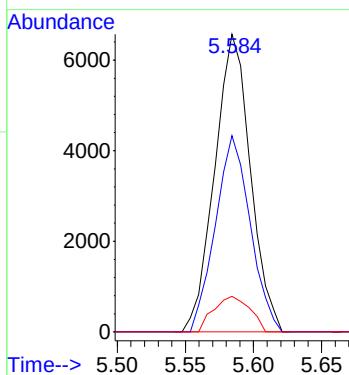
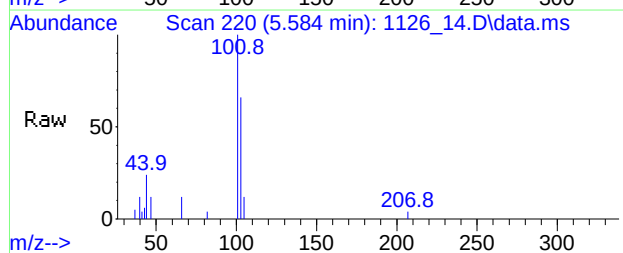
Tgt Ion: 43 Resp: 154562
Ion Ratio Lower Upper
43 100
58 22.9 24.6 37.0#





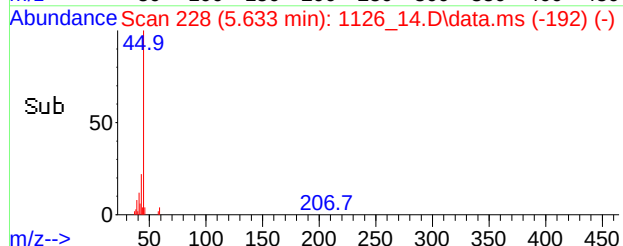
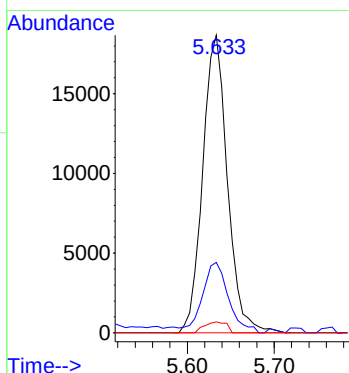
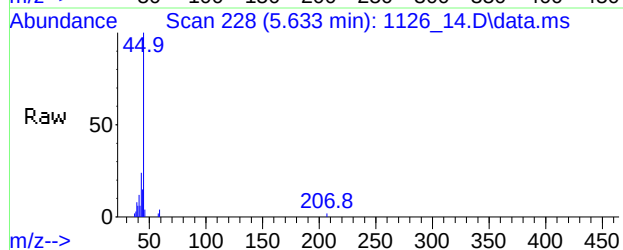
#13
Trichlorofluoromethane
Conc: 8\$ 0.215 ppbv
RT: 5.584 min Scan# 220
Delta R.T. 0.000 min
Lab File: 1126_14.D
Acq: 26 Nov 2024 11:07 pm

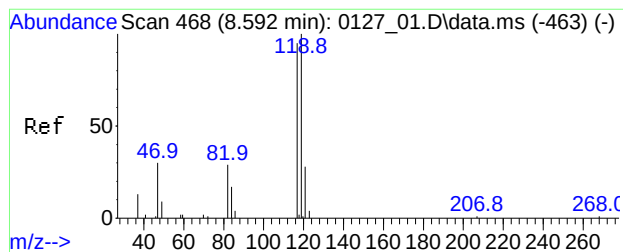
Tgt Ion:	101	Resp:	11948
Ion	Ratio	Lower	Upper
101	100		
103	64.2	53.4	80.2
66	12.1	9.3	13.9



#14
Isopropylalcohol
Conc: 8\$ 0.846 ppbv
RT: 5.633 min Scan# 228
Delta R.T. 0.019 min
Lab File: 1126_14.D
Acq: 26 Nov 2024 11:07 pm

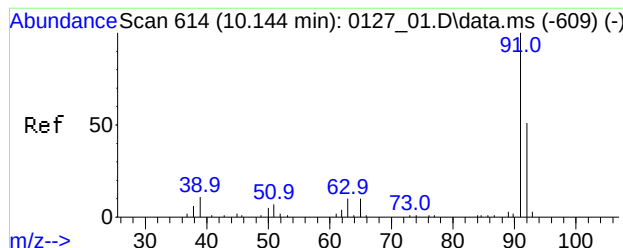
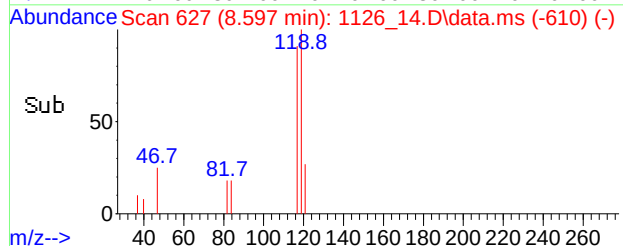
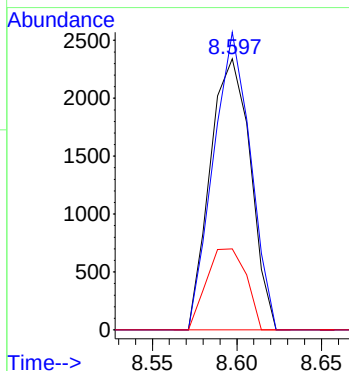
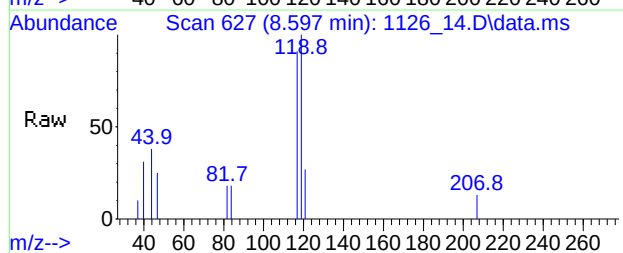
Tgt Ion:	45	Resp:	40400
Ion	Ratio	Lower	Upper
45	100		
43	22.8	13.3	19.9#
59	3.0	2.6	4.0





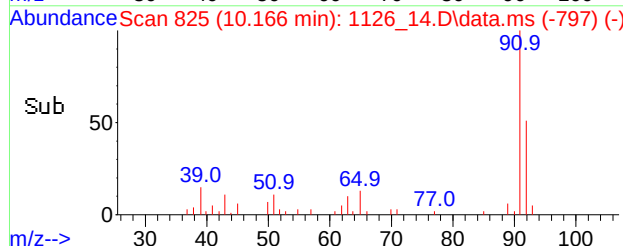
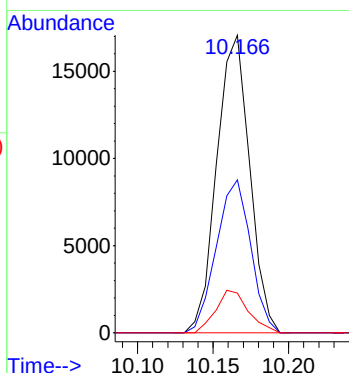
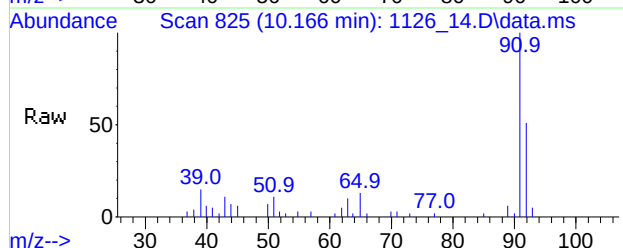
#35
Carbon Tetrachloride
Conc: 8\$ Below Cal
RT: 8.597 min Scan# 627
Delta R.T. 0.000 min
Lab File: 1126_14.D
Acq: 26 Nov 2024 11:07 pm

Tgt Ion: 117 Resp: 3893
Ion Ratio Lower Upper
117 100
119 101.2 76.5 116.5
121 29.4 11.2 51.2

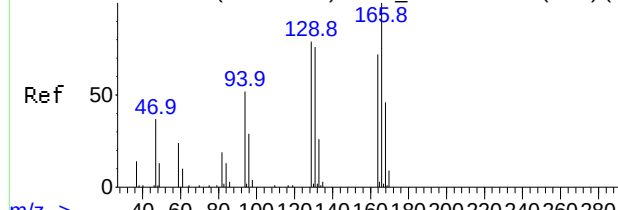


#49
Toluene
Conc: 8\$ 0.389 ppbv
RT: 10.166 min Scan# 825
Delta R.T. 0.000 min
Lab File: 1126_14.D
Acq: 26 Nov 2024 11:07 pm

Tgt Ion: 91 Resp: 25879
Ion Ratio Lower Upper
91 100
92 53.5 45.0 67.4
65 14.2 9.4 14.2#



Abundance Scan 679 (10.775 min): 0127_01.D\data.ms (-675) (-)

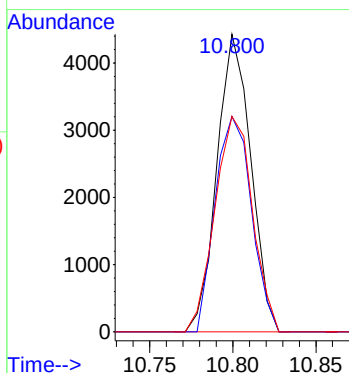
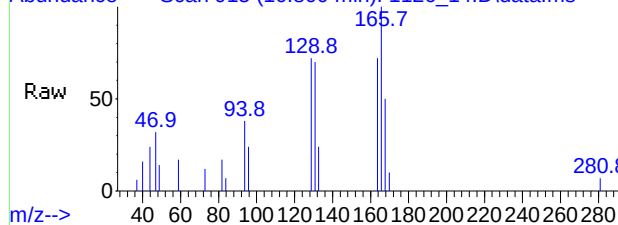


#53

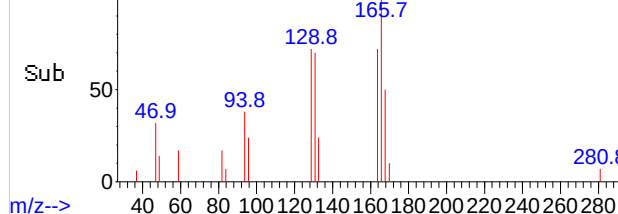
Tetrachloroethene
Conc: 8\$ 0.152 ppbv
RT: 10.800 min Scan# 915
Delta R.T. 0.000 min
Lab File: 1126_14.D
Acq: 26 Nov 2024 11:07 pm

Tgt Ion	Ratio	Lower	Upper
166	100		
164	77.6	64.7	97.1
129	80.4	62.2	93.2

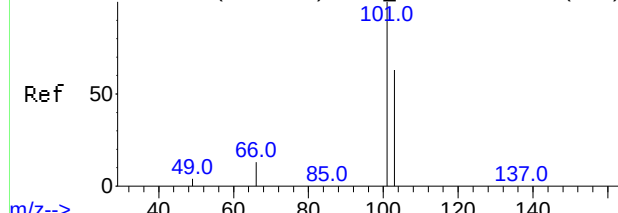
Abundance Scan 915 (10.800 min): 1126_14.D\data.ms



Abundance Scan 915 (10.800 min): 1126_14.D\data.ms (-887) (-)



Abundance Scan 154 (5.593 min): 0127_01.D\data.ms (-145)

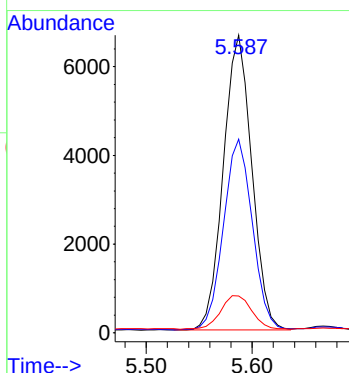
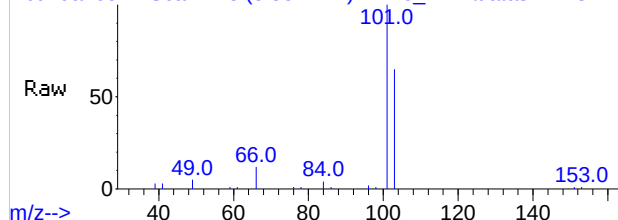


#85

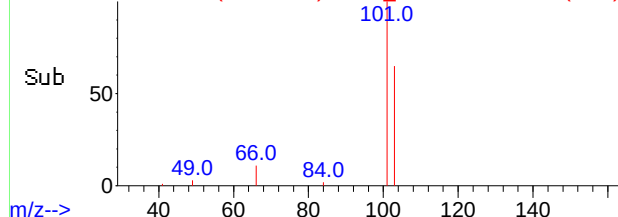
Trichlorofluoromethane(sim)
Conc: 8\$ 0.214 ppbv
RT: 5.587 min Scan# 223
Delta R.T. 0.000 min
Lab File: 1126_14.D
Acq: 26 Nov 2024 11:07 pm

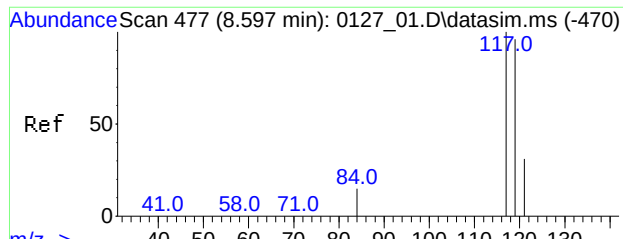
Tgt Ion	Ratio	Lower	Upper
101	100		
103	65.4	52.4	78.6
66	12.2	11.4	11.4#

Abundance Scan 223 (5.587 min): 1126_14.D\data.ms

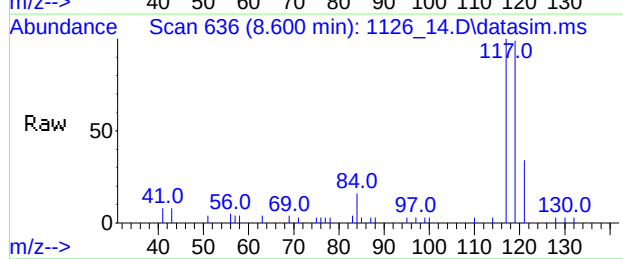


Abundance Scan 223 (5.587 min): 1126_14.D\data.ms (-190)

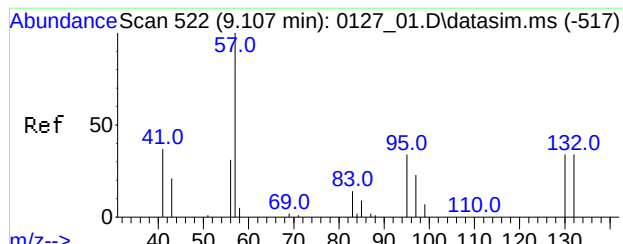
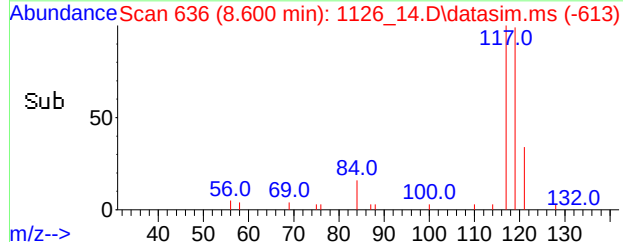
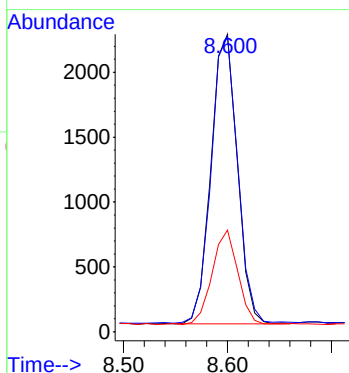




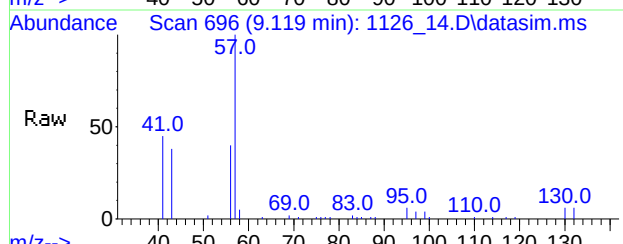
#89
Carbon Tetrachloride(sim)
Conc: 8\$ 0.076 ppbv
RT: 8.600 min Scan# 636
Delta R.T. 0.000 min
Lab File: 1126_14.D
Acq: 26 Nov 2024 11:07 pm



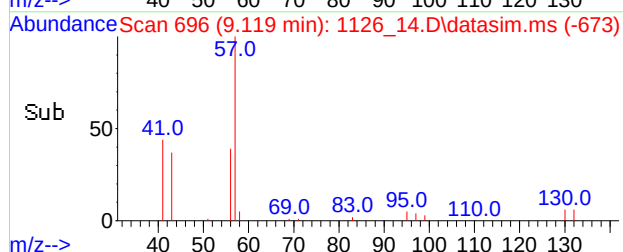
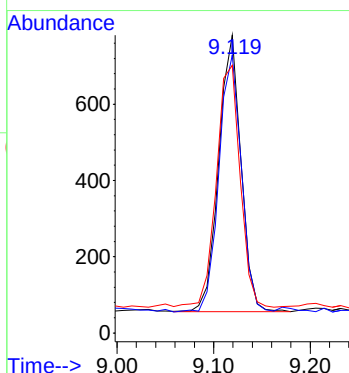
Tgt Ion:117 Resp: 3905
Ion Ratio Lower Upper
117 100
119 99.5 77.4 116.2
121 31.6 24.9 37.3



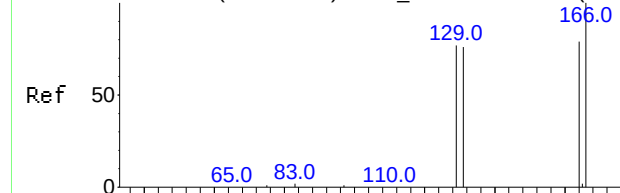
#99
Trichloroethene(sim)
Conc: 8\$ 0.037 ppbv
RT: 9.119 min Scan# 696
Delta R.T. 0.000 min
Lab File: 1126_14.D
Acq: 26 Nov 2024 11:07 pm



Tgt Ion:130 Resp: 1154
Ion Ratio Lower Upper
130 100
132 93.8 77.5 116.3
95 92.7 73.8 110.6

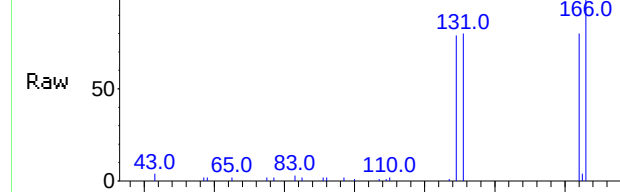


Abundance Scan 690 (10.781 min): 0127_01.D\datasim.ms (-685)



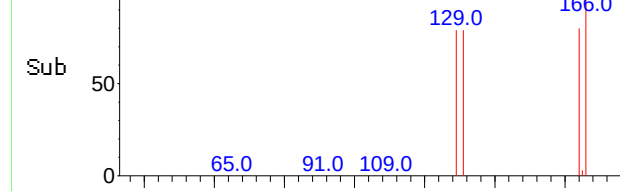
m/z-->

Abundance Scan 926 (10.802 min): 1126_14.D\datasim.ms



m/z-->

Abundance Scan 926 (10.802 min): 1126_14.D\datasim.ms (-898)



m/z-->

#105

Tetrachloroethene(sim)

Conc: 8\$ 0.149 ppbv

RT: 10.802 min Scan# 926

Delta R.T. 0.000 min

Lab File: 1126_14.D

Acq: 26 Nov 2024 11:07 pm

Tgt Ion:166 Resp: 6548

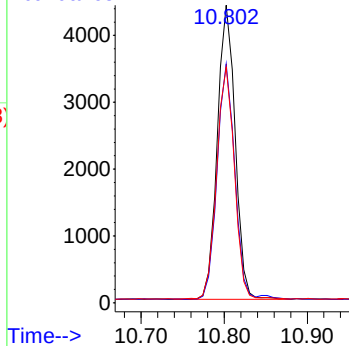
Ion Ratio Lower Upper

166 100

164 80.1 58.0 98.0

129 78.5 58.0 98.0

Abundance



Response Factor Report Chem24

Method Path : H:\AIR2024\CHEM24\Methods\
 Method File : 24_AIR_1018.M
 Title : VOA Standards for 5 point calibration
 Last Update : Mon Oct 21 10:04:28 2024
 Response Via : Initial Calibration

Calibration Files (Note: Curves (l,l,f,q,qf) display calculated conc and corr. coefficient.)

.035=1018_04.D 0.05=1018_05.D 0.10=1018_06.D 0.2 =1018_07.D 0.5 =1018_08.D 1.0 =1018_13.D 2.5 =1018_09.D 5.0 =1018_10.D
 10 =1018_14.D 25 =1018_11.D 40 =1018_12.D 0.02=1018_03.D 0.01=1018_02.D

Compound	.035	0.05	0.10	0.2	0.5	1.0	2.5	5.0	10	25	40	0.02	0.01	Avg	%RSD
1) Int Bromochloromethane	-----ISTD-----														
2) Propylene				1.228	1.088	0.953	0.981	1.036	0.995	1.046	1.048			1.047	8.09
3) Dichlorodifluo...				2.733	2.549	2.372	2.545	2.664	2.611	2.644	2.570			2.586	4.16
4) Chloromethane				1.434	1.283	1.177	1.252	1.300	1.241	1.258	1.252			1.275	5.77
5) 1,2-Dichlorote...				2.633	2.458	2.327	2.392	2.491	2.409	2.412	2.451			2.447	3.67
6) Vinyl Chloride				1.150	1.151	1.066	1.092	1.141	1.094	1.086	1.112			1.111	2.92
7) 1,3-Butadiene				1.016	1.030	0.897	0.939	0.976	0.939	0.940	0.954			0.961	4.58
8) Bromomethane				1.067	1.021	0.947	0.959	0.983	0.952	0.958	0.986			0.984	4.22
9) Chloroethane				0.462	0.455	0.424	0.435	0.439	0.424	0.424	0.437			0.438	3.33
11) Ethanol				0.823	0.596	0.552	0.537	0.566	0.502	0.532	0.539			0.581	17.48
12) Acetone				2.400	2.055	1.841	1.939	1.934	1.879	1.871	1.886			1.976	9.28
13) Trichlorofluor...				2.971	2.883	2.653	2.761	2.896	2.769	2.958	2.936			2.853	3.97
14) Isopropylalcohol				2.546	2.403	2.515	2.466	2.523	2.442	2.376	2.374			2.456	2.78
15) Acrylonitrile				1.078	0.998	0.928	0.964	0.999	0.962	0.980	1.006			0.989	4.43
16) 1,1-Dichloroet...				1.904	1.842	1.787	1.818	1.892	1.827	1.824	1.852			1.843	2.11
17) Methylene Chlo...				2.003	1.749	1.598	1.618	1.657	1.570	1.563	1.575			1.667	8.95
20) Carbon Disulfide				2.866	2.745	2.598	2.611	2.723	2.616	2.593	2.652			2.675	3.59
21) Trichlorotrifl...				2.433	2.262	2.175	2.197	2.280	2.175	2.159	2.205			2.236	4.04
22) Trans-1,2-Dich...				1.903	1.755	1.680	1.702	1.799	1.728	1.740	1.799			1.764	3.99
23) 1,1-Dichloroet...				2.259	2.087	1.965	2.030	2.095	2.027	2.008	2.072			2.068	4.28
24) Methyl tert-bu...				2.527	2.289	2.264	2.238	2.283	2.303	2.320	2.383			2.326	3.95
26) Methyl Ethyl K...				2.881	2.700	2.530	2.621	2.601	2.555	2.620	2.633			2.643	4.13
27) Cis-1,2-Dichlo...				1.758	1.691	1.601	1.596	1.676	1.616	1.652	1.690			1.660	3.32
28) Hexane				1.869	1.810	1.733	1.778	1.881	1.808	1.838	1.875			1.824	2.84
29) Chloroform				2.273	2.170	2.076	2.052	2.143	2.060	2.070	2.123			2.121	3.52
30) Ethyl acetate				0.373	0.396	0.374	0.380	0.388	0.395	0.395	0.405			0.388	2.95
31) Tetrahydrofuran				1.288	1.226	1.174	1.225	1.260	1.246	1.277	1.309			1.251	3.41
32) 1,2-Dichloroet...				1.636	1.550	1.492	1.518	1.570	1.531	1.555	1.575			1.553	2.79
33) 1,1,1-Trichlor...				2.315	2.333	2.091	2.188	2.261	2.207	2.229	2.260			2.236	3.43
34) Benzene		3.080		2.960	2.869	2.690	2.666	2.800	2.734	2.722	2.804			2.814	4.83
35) Carbon Tetrach...				2.716	2.588	2.443	2.496	2.620	2.517	2.585	2.645			2.576	3.41
36) Cyclohexane				1.396	1.186	1.042	1.023	1.053	1.042	1.049	1.068			1.107	11.50
37) Int 1,4-Difluorobenzene	-----ISTD-----														
38) 1,2-dichloropr...				0.468	0.429	0.404	0.418	0.435	0.413	0.425	0.439			0.429	4.52
39) Bromodichlorom...				0.753	0.713	0.650	0.686	0.704	0.674	0.690	0.702			0.697	4.32
40) Trichloroethene				0.539	0.518	0.474	0.508	0.511	0.481	0.488	0.495			0.502	4.23
41) 2,2,4-trimethy...				1.885	1.820	1.738	1.795	1.864	1.758	1.770	1.748			1.797	3.04
42) 1,4-Dioxane				0.165	0.162	0.192	0.184	0.188	0.180	0.184	0.189			0.181	6.07
44) Heptane				0.736	0.739	0.685	0.719	0.731	0.690	0.712	0.717			0.716	2.80

Response Factor Report Chem24

Method Path : H:\AIR2024\CHEM24\Methods\

Method File : 24_AIR_1018.M

Title : VOA Standards for 5 point calibration

45)	cis-1,3-Dichlo...	0.538	0.509	0.494	0.513	0.523	0.510	0.526	0.537	0.519	2.92
46)	4-Methyl-2-pen...	0.953	0.897	0.912	0.922	0.942	0.876	0.925	0.910	0.917	2.63
47)	trans-1,3-Dich...	0.442	0.415	0.393	0.403	0.417	0.418	0.440	0.457	0.423	5.11
48)	1,1,2-Trichlor...	0.454	0.426	0.392	0.404	0.405	0.400	0.408	0.419	0.414	4.69
49)	Toluene	1.124	1.106	1.063	1.053	1.104	1.072	1.103	1.125	1.094	2.52
50)	Dibromochlorom...	0.977	0.918	0.852	0.892	0.918	0.885	0.940	0.957	0.917	4.43
51)	2-Hexanone(MBK)	0.700	0.657	0.784	0.771	0.848	0.797	0.864	0.876	0.787	9.90
52)	1,2-Dibromoeth...	0.759	0.713	0.685	0.696	0.727	0.704	0.727	0.747	0.720	3.50
53)	Tetrachloroethene	0.735	0.663	0.640	0.665	0.685	0.650	0.678	0.691	0.676	4.40

54)	Int Chlorobenzene-d5	-----ISTD-----									
55)	1,1,1,2-Tetrac...	1.501	1.391	1.295	1.330	1.336	1.249	1.193	1.095	1.299	9.52
56)	Chlorobenzene	2.365	2.308	2.140	2.167	2.229	2.069	1.950	1.795	2.128	8.82
57)	Ethylbenzene	3.222	3.374	3.155	3.061	3.098	3.150	2.971	2.801	3.044	7.90
58)	m,p-Xylene	2.492	2.518	2.432	1.897	2.444	2.439	2.292	2.141	1.932	10.53
59)	Bromoform	2.226	2.014	1.953	1.999	1.969	1.885	1.854	1.708	1.951	7.63
60)	Styrene	1.816	1.705	1.721	1.780	1.861	1.796	1.731	1.594	1.751	4.69
61)	1,1,2,2-Tetrac...	2.029	1.914	1.956	1.947	1.940	1.809	1.708	1.534	1.855	8.81
62)	o-Xylene	2.597	2.722	2.517	2.474	2.552	2.515	2.348	2.226	2.005	8.85
63)	Surr% Bromofluorob...	1.299	1.301	1.312	1.334	1.349	1.319	1.265	1.173	1.294	4.24
65)	Isopropylbenzene	4.128	3.916	3.685	3.712	3.684	3.495	3.303	2.976	3.612	9.89
67)	4-Ethyltoluene	3.284	3.333	3.590	3.634	3.683	3.524	3.366	3.260	3.459	4.85
68)	1,3,5-Trimethy...	3.143	2.973	3.194	3.204	3.129	2.943	2.841	2.369	2.974	9.32
69)	1,2,4-Trimethy...	2.912	2.895	3.134	3.265	3.234	3.058	2.945	2.614	3.007	7.07
71)	qfi Benzyl chloride	0.088	0.274	0.715	2.080	4.969	10.36	26.72	38.96	Coef R2	1.00
72)	1,3-Dichlorobe...	1.800	1.864	2.132	2.165	2.250	2.199	2.175	1.954	2.067	8.22
73)	1,4-Dichlorobe...	1.305	1.404	1.699	1.734	1.817	1.861	1.955	1.822	1.700	13.43
74)	sec-Butylbenzene	4.865	4.776	4.703	4.752	4.663	4.359	4.106	3.600	4.478	9.71
75)	4-Isopropyltol...	4.364	4.249	4.389	4.408	4.443	4.148	4.001	3.537	4.192	7.26
76)	1,2-Dichlorobe...	1.648	1.755	2.039	2.054	2.170	2.052	2.056	1.910	1.961	9.02
77)	n-Butylbenzene	2.395	2.552	2.856	3.035	3.322	3.198	3.198	2.858	2.927	11.17
78)	qfi 1,2,4-Trichlor...	0.072	0.202	1.038	1.712	4.725	9.759	27.54	38.77	Coef R2	0.99
79)	qfi Naphthalene	0.088	0.222	0.995	1.693	4.851	10.03	27.49	38.67	Coef R2	0.99
80)	Hexachlorobuta...	2.094	1.918	2.333	2.291	2.328	2.121	2.095	1.874	2.132	8.30

81)	int Bromochloromethane...	-----ISTD-----											
82)	1,2-Dichlorote...	2.533	2.683	2.865	2.636	2.458	2.338	2.383	2.467	2.537	2.443	2.534	6.20
83)	Vinyl Chloride...	1.085	1.185	1.318	1.241	1.163	1.135	1.144	1.193	1.073	1.264	1.180	6.57
84)	Bromomethane(sim)	1.113	1.071	1.201	1.069	1.021	0.951	0.956	0.974	1.080	1.153	1.059	7.94
85)	Trichlorofluor...	2.769	2.855	3.269	3.148	2.969	2.781	2.864	2.945	2.850	2.870	2.932	5.48
86)	1,2-Dichloroet...	1.639	1.668	1.712	1.638	1.550	1.499	1.512	1.555	1.634	1.495	1.590	4.86
87)	1,1,1-Trichlor...	2.259	2.320	2.675	2.563	2.422	2.278	2.324	2.404	2.333	2.324	2.390	5.57
88)	Benzene(sim)	3.425	3.514	3.090	2.963	2.869	2.703	2.656				3.031	11.04
89)	Carbon Tetrach...	2.471	2.480	2.896	2.768	2.649	2.471	2.526		2.482	2.456	2.578	6.16
90)	1,1-Dichloroet...	1.912	1.934	2.048	1.906	1.842	1.795	1.811	1.874	1.885	1.935	1.894	3.82
91)	Trichlorotrifl...	2.208	2.283	2.642	2.517	2.382	2.242	2.276	2.330	2.287	2.238	2.341	5.90
92)	Trans-1,2-Dich...	1.900	1.866	1.857	1.906	1.755	1.688	1.696	1.782	1.815	1.909	1.817	4.63
93)	1,1-Dichloroet...	2.127	2.173	2.495	2.369	2.236	2.116	2.150	2.213	2.255	2.238	2.237	5.23
94)	Cis-1,2-Dichlo...	1.812	1.765	1.771	1.760	1.691	1.608	1.590	1.661	1.641	1.674	1.697	4.46
95)	Chloroform(sim)	2.117	2.173	2.487	2.388	2.237	2.132	2.145	2.209	2.176	2.212	2.228	5.35

Response Factor Report Chem24

Method Path : H:\AIR2024\CHEM24\Methods\
 Method File : 24_AIR_1018.M
 Title : VOA Standards for 5 point calibration

96)	int	1,4-Difluorobenzen...	-----ISTD-----											
97)		1,2-dichloropr...	0.449	0.455	0.514	0.492	0.461	0.431	0.446	0.459	0.446	0.395	0.455	7.05
98)		Bromodichlorom...	0.688	0.750	0.790	0.753	0.718	0.650	0.686	0.704	0.736	0.684	0.716	5.82
99)		Trichloroethen...	0.486	0.504	0.586	0.558	0.522	0.491	0.506	0.519	0.510	0.511	0.519	5.89
100)		1,4-Dioxane(sim)			0.208	0.165	0.162	0.192	0.184	0.188			0.183	9.33
101)		cis-1,3-Dichlo...	0.528	0.522	0.605	0.595	0.552	0.532	0.549		0.527	0.528	0.549	5.62
102)		1,1,2-Trichlor...	0.422	0.454	0.472	0.454	0.426	0.392	0.404	0.405	0.406	0.421	0.426	6.18
103)		Dibromochlorom...	0.858	0.872	1.010	0.979	0.920	0.850	0.895		0.902	0.851	0.904	6.29
104)		1,2-Dibromoeth...	0.703	0.745	0.805	0.759	0.713	0.685	0.696	0.727	0.722	0.729	0.728	4.77
105)		Tetrachloroeth...	0.749	0.762	0.779	0.748	0.689	0.655	0.675	0.692	0.755	0.779	0.722	6.70
106)	int	Chlorobenzene-d5(sim)	-----ISTD-----											
107)		Bromoform(sim)	1.810	1.869	2.027	2.084	1.980	1.872	1.936		1.878	1.756	1.912	5.47
108)		m,p-Xylene(sim)	3.091	3.249	2.492	2.518	2.432	2.371	2.444	2.446	3.323	3.482	2.785	15.91
109)		1,1,2,2-Tetrac...	1.784	1.867	2.147	2.102	2.013	2.018	2.038	2.013	1.937	1.979	1.990	5.34
112)	qfi	Benzyl chlorid...	0.027	0.043	0.088	0.165	0.478	1.090	2.480				Coef R2	1.00
113)		1,3-Dichlorobe...	1.433	1.524	1.696	1.845	1.938	2.202	2.274		1.610	1.848	1.819	15.84
114)		1,4-Dichlorobe...	1.258	1.359	1.185	1.305	1.404	1.699	1.734		1.347	1.723	1.446	14.80
115)		sec-Butylbenze...	4.544	4.661	5.384	5.378	5.226	5.157	5.246	5.173	4.775	5.092	5.063	5.88
116)		4-Isopropyltol...			4.428	4.364	4.249	4.389	4.408	4.443			4.380	1.60
117)		1,2-Dichlorobe...	1.538	1.617	1.866	1.870	1.953	2.277	2.292	2.403	1.826	2.107	1.975	14.68
118)		n-Butylbenzene...	1.925	2.066	2.448	2.395	2.552	2.856	3.035		2.319	2.925	2.503	15.23
119)	qfi	1,2,4-Trichlor...	0.054	0.075	0.138	0.224	0.413	1.019			0.055		Coef R2	0.98@
120)		Hexachlorobuta...	2.140	2.117	2.034	2.056	1.803	2.333	2.275				2.108	8.24

(#,\$,@)=Out of Range l=linear lf=linear(0,0) q=Quadratic qf=Quadratic(0,0)

6B
AIR INITIAL CALIBRATION DATA

Lab Name: Phoenix Environmental Labs
Lab Code: Phoenix
Instrument ID: CHEM24
Heated Purge (Y/N): Y
GC Column: _____

Client: AMC-ENG
SDG No.: GCS16244
Calibration Date From: 10/18/24 18:11
Calibration Date Thru: 10/18/24 22:33
Method File: 24_AIR_1018.M

Laboratory File Ids

RRF1	<u>1018_02.D</u>	RRF2	<u>1018_03.D</u>	RRF3	<u>1018_04.D</u>	RRF4	<u>1018_05.D</u>	RRF5	<u>1018_06.D</u>	RRF6	<u>1018_07.D</u>
RRF7	<u>1018_08.D</u>	RRF8	<u>1018_13.D</u>	RRF9	<u>1018_09.D</u>	RRF10	<u>1018_10.D</u>	RRF11	<u>1018_14.D</u>	RRF12	<u>1018_11.D</u>
RRF13	<u>1018_12.D</u>										

COMPOUND	RRF1 0.01	RRF2 0.02	RRF3 0.035	RRF4 0.05	RRF5 0.1	RRF6 0.2	RRF7 0.5	RRF8 1	RRF9 2.5	RRF10 5	RRF11 10	RRF12 25	RRF13 40	— RRF	% RSD
Propylene						1.228	1.088	0.953	0.981	1.036	0.995	1.046	1.048	1.047	8.09
Dichlorodifluoromethane						2.733	2.549	2.372	2.545	2.664	2.611	2.644	2.570	2.586	4.16
Chloromethane						1.434	1.283	1.177	1.252	1.300	1.241	1.258	1.252	1.275	5.77
1,2-Dichlorotetrafluoroethane						2.633	2.458	2.327	2.392	2.491	2.409	2.412	2.451	2.447	3.67
Vinyl Chloride						1.150	1.151	1.066	1.092	1.141	1.094	1.086	1.112	1.111	2.92
1,3-Butadiene						1.016	1.030	0.897	0.939	0.976	0.939	0.940	0.954	0.961	4.58
Bromomethane						1.067	1.021	0.947	0.959	0.983	0.952	0.958	0.986	0.984	4.22
Chloroethane						0.462	0.455	0.424	0.435	0.439	0.424	0.424	0.437	0.438	3.33
Ethanol						0.823	0.596	0.552	0.537	0.566	0.502	0.532	0.539	0.581	17.48
Acetone						2.400	2.055	1.841	1.939	1.934	1.879	1.871	1.886	1.976	9.28
Trichlorofluoromethane						2.971	2.883	2.653	2.761	2.896	2.769	2.958	2.936	2.853	3.97
Isopropylalcohol						2.546	2.403	2.515	2.466	2.523	2.442	2.376	2.374	2.456	2.78
Acrylonitrile						1.078	0.998	0.928	0.964	0.999	0.962	0.980	1.006	0.989	4.43
1,1-Dichloroethene						1.904	1.842	1.787	1.818	1.892	1.827	1.824	1.852	1.843	2.11
Methylene Chloride						2.003	1.749	1.598	1.618	1.657	1.570	1.563	1.575	1.667	8.95
Carbon Disulfide						2.866	2.745	2.598	2.611	2.723	2.616	2.593	2.652	2.675	3.59
Trichlorotrifluoroethane						2.433	2.262	2.175	2.197	2.280	2.175	2.159	2.205	2.236	4.04
Trans-1,2-Dichloroethene						1.903	1.755	1.680	1.702	1.799	1.728	1.740	1.799	1.764	3.99
1,1-Dichloroethane						2.259	2.087	1.965	2.030	2.095	2.027	2.008	2.072	2.068	4.28
Methyl tert-butyl ether(MTBE)						2.527	2.289	2.264	2.238	2.283	2.303	2.320	2.383	2.326	3.95
Methyl Ethyl Ketone						2.881	2.700	2.530	2.621	2.601	2.555	2.620	2.633	2.643	4.13
Cis-1,2-Dichloroethene						1.758	1.691	1.601	1.596	1.676	1.616	1.652	1.690	1.660	3.32
Hexane						1.869	1.810	1.733	1.778	1.881	1.808	1.838	1.875	1.824	2.84
Chloroform						2.273	2.170	2.076	2.052	2.143	2.060	2.070	2.123	2.121	3.52

(#) The maximum %RSD was not met for this compound

Note: m,p-xylene TV is 2 times the TV Listed

(l) linear (q) quadratic (i) inverse conc weight (i2) inverse conc weight squared (f) force through zero

Compounds not using average response (l, li, lfi, li2, lfi2, q, qi, qfi, qi2, qfi2) display concentrations and not response factors

6B
AIR INITIAL CALIBRATION DATA

Lab Name: Phoenix Environmental Labs
 Lab Code: Phoenix
 Instrument ID: CHEM24
 Heated Purge (Y/N): Y
 GC Column: _____

Client: AMC-ENG
 SDG No.: GCS16244
 Calibration Date From: 10/18/24 18:11
 Calibration Date Thru: 10/18/24 22:33
 Method File: 24_AIR_1018.M

Laboratory File Ids

RRF1	<u>1018_02.D</u>	RRF2	<u>1018_03.D</u>	RRF3	<u>1018_04.D</u>	RRF4	<u>1018_05.D</u>	RRF5	<u>1018_06.D</u>	RRF6	<u>1018_07.D</u>				
RRF7	<u>1018_08.D</u>	RRF8	<u>1018_13.D</u>	RRF9	<u>1018_09.D</u>	RRF10	<u>1018_10.D</u>	RRF11	<u>1018_14.D</u>	RRF12	<u>1018_11.D</u>				
RRF13	<u>1018_12.D</u>														
COMPOUND	RRF1 0.01	RRF2 0.02	RRF3 0.035	RRF4 0.05	RRF5 0.1	RRF6 0.2	RRF7 0.5	RRF8 1	RRF9 2.5	RRF10 5	RRF11 10	RRF12 25	RRF13 40	— RRF	% RSD
Ethyl acetate						0.373	0.396	0.374	0.380	0.388	0.395	0.395	0.405	0.388	2.95
Tetrahydrofuran						1.288	1.226	1.174	1.225	1.260	1.246	1.277	1.309	1.251	3.41
1,2-Dichloroethane						1.636	1.550	1.492	1.518	1.570	1.531	1.555	1.575	1.553	2.79
1,1,1-Trichloroethane						2.315	2.333	2.091	2.188	2.261	2.207	2.229	2.260	2.236	3.43
Benzene					3.080	2.960	2.869	2.690	2.666	2.800	2.734	2.722	2.804	2.814	4.83
Carbon Tetrachloride						2.716	2.588	2.443	2.496	2.620	2.517	2.585	2.645	2.576	3.41
Cyclohexane						1.396	1.186	1.042	1.023	1.053	1.042	1.049	1.068	1.107	11.50
1,2-dichloropropane						0.468	0.429	0.404	0.418	0.435	0.413	0.425	0.439	0.429	4.52
Bromodichloromethane						0.753	0.713	0.650	0.686	0.704	0.674	0.690	0.702	0.697	4.32
Trichloroethene						0.539	0.518	0.474	0.508	0.511	0.481	0.488	0.495	0.502	4.23
2,2,4-trimethylpentane						1.885	1.820	1.738	1.795	1.864	1.758	1.770	1.748	1.797	3.04
1,4-Dioxane						0.165	0.162	0.192	0.184	0.188	0.180	0.184	0.189	0.181	6.07
Heptane						0.736	0.739	0.685	0.719	0.731	0.690	0.712	0.717	0.716	2.80
cis-1,3-Dichloropropene						0.538	0.509	0.494	0.513	0.523	0.510	0.526	0.537	0.519	2.92
4-Methyl-2-pentanone(MIBK)						0.953	0.897	0.912	0.922	0.942	0.876	0.925	0.910	0.917	2.63
trans-1,3-Dichloropropene						0.442	0.415	0.393	0.403	0.417	0.418	0.440	0.457	0.423	5.11
1,1,2-Trichloroethane						0.454	0.426	0.392	0.404	0.405	0.400	0.408	0.419	0.414	4.69
Toluene						1.124	1.106	1.063	1.053	1.104	1.072	1.103	1.125	1.094	2.52
Dibromochloromethane						0.977	0.918	0.852	0.892	0.918	0.885	0.940	0.957	0.917	4.43
2-Hexanone(MBK)						0.700	0.657	0.784	0.771	0.848	0.797	0.864	0.876	0.787	9.90
1,2-Dibromoethane(EDB)						0.759	0.713	0.685	0.696	0.727	0.704	0.727	0.747	0.720	3.50
Tetrachloroethene						0.735	0.663	0.640	0.665	0.685	0.650	0.678	0.691	0.676	4.40
1,1,1,2-Tetrachloroethane						1.501	1.391	1.295	1.330	1.336	1.249	1.193	1.095	1.299	9.52
Chlorobenzene						2.365	2.308	2.140	2.167	2.229	2.069	1.950	1.795	2.128	8.82

(#) The maximum %RSD was not met for this compound

Note: m,p-xylene TV is 2 times the TV Listed

(l) linear (q) quadratic (i) inverse conc weight (i2) inverse conc weight squared (f) force through zero

Compounds not using average response (l, li, lfi, li2, lfi2, q, qi, qfi, qi2, qfi2) display concentrations and not response factors

6B
AIR INITIAL CALIBRATION DATA

Lab Name: Phoenix Environmental Labs
 Lab Code: Phoenix
 Instrument ID: CHEM24
 Heated Purge (Y/N): Y
 GC Column: _____

Client: AMC-ENG
 SDG No.: GCS16244
 Calibration Date From: 10/18/24 18:11
 Calibration Date Thru: 10/18/24 22:33
 Method File: 24_AIR_1018.M

Laboratory File Ids

RRF1	<u>1018_02.D</u>	RRF2	<u>1018_03.D</u>	RRF3	<u>1018_04.D</u>	RRF4	<u>1018_05.D</u>	RRF5	<u>1018_06.D</u>	RRF6	<u>1018_07.D</u>				
RRF7	<u>1018_08.D</u>	RRF8	<u>1018_13.D</u>	RRF9	<u>1018_09.D</u>	RRF10	<u>1018_10.D</u>	RRF11	<u>1018_14.D</u>	RRF12	<u>1018_11.D</u>				
RRF13	<u>1018_12.D</u>														
COMPOUND	RRF1 0.01	RRF2 0.02	RRF3 0.035	RRF4 0.05	RRF5 0.1	RRF6 0.2	RRF7 0.5	RRF8 1	RRF9 2.5	RRF10 5	RRF11 10	RRF12 25	RRF13 40	— RRF	% RSD
Ethylbenzene					3.222	3.374	3.155	3.061	3.098	3.150	2.971	2.801	2.564	3.044	7.90
m,p-Xylene					2.492	2.518	2.432	1.897	2.444	2.439	2.292	2.141	1.932	2.287	10.53
Bromoform						2.226	2.014	1.953	1.999	1.969	1.885	1.854	1.708	1.951	7.63
Styrene						1.816	1.705	1.721	1.780	1.861	1.796	1.731	1.594	1.751	4.69
1,1,2,2-Tetrachloroethane						2.029	1.914	1.956	1.947	1.940	1.809	1.708	1.534	1.855	8.81
o-Xylene					2.597	2.722	2.517	2.474	2.552	2.515	2.348	2.226	2.005	2.440	8.85
Isopropylbenzene						4.128	3.916	3.685	3.712	3.684	3.495	3.303	2.976	3.612	9.89
4-Ethyltoluene						3.284	3.333	3.590	3.634	3.683	3.524	3.366	3.260	3.459	4.85
1,3,5-Trimethylbenzene						3.143	2.973	3.194	3.204	3.129	2.943	2.841	2.369	2.974	9.32
1,2,4-Trimethylbenzene						2.912	2.895	3.134	3.265	3.234	3.058	2.945	2.614	3.007	7.07
Benzyl chloride	qfi					0.088	0.274	0.715	2.080	4.969	10.360	26.720	38.960	Coef R2	1.00
1,3-Dichlorobenzene						1.800	1.864	2.132	2.165	2.250	2.199	2.175	1.954	2.067	8.22
1,4-Dichlorobenzene						1.305	1.404	1.699	1.734	1.817	1.861	1.955	1.822	1.700	13.43
sec-Butylbenzene						4.865	4.776	4.703	4.752	4.663	4.359	4.106	3.600	4.478	9.71
4-Isopropyltoluene						4.364	4.249	4.389	4.408	4.443	4.148	4.001	3.537	4.192	7.26
1,2-Dichlorobenzene						1.648	1.755	2.039	2.054	2.170	2.052	2.056	1.910	1.961	9.02
n-Butylbenzene						2.395	2.552	2.856	3.035	3.322	3.198	3.198	2.858	2.927	11.17
1,2,4-Trichlorobenzene	qfi					0.072	0.202	1.038	1.712	4.725	9.759	27.540	38.770	Coef R2	0.99
Naphthalene	qfi					0.088	0.222	0.995	1.693	4.851	10.030	27.490	38.670	Coef R2	0.99
Hexachlorobutadiene						2.094	1.918	2.333	2.291	2.328	2.121	2.095	1.874	2.132	8.30
1,2-Dichlorotetrafluoroethane(sim)	2.443	2.537	2.533	2.683	2.865	2.636	2.458	2.338	2.383	2.467				2.534	6.20
Vinyl Chloride(sim)	1.264	1.073	1.085	1.185	1.318	1.241	1.163	1.135	1.144	1.193				1.180	6.57
Bromomethane(sim)	1.153	1.080	1.113	1.071	1.201	1.069	1.021	0.951	0.956	0.974				1.059	7.94
Trichlorofluoromethane(sim)	2.87	2.850	2.769	2.855	3.269	3.148	2.969	2.781	2.864	2.945				2.932	5.48

(#) The maximum %RSD was not met for this compound

Note: m,p-xylene TV is 2 times the TV Listed

(l) linear (q) quadratic (i) inverse conc weight (i2) inverse conc weight squared (f) force through zero

Compounds not using average response (l, li, lfi, li2, lfi2, q, qi, qfi, qi2, qfi2) display concentrations and not response factors

6B
AIR INITIAL CALIBRATION DATA

Lab Name: Phoenix Environmental Labs
Lab Code: Phoenix
Instrument ID: CHEM24
Heated Purge (Y/N): Y
GC Column: _____

Client: AMC-ENG
SDG No.: GCS16244
Calibration Date From: 10/18/24 18:11
Calibration Date Thru: 10/18/24 22:33
Method File: 24_AIR_1018.M

Laboratory File Ids

RRF1	<u>1018_02.D</u>	RRF2	<u>1018_03.D</u>	RRF3	<u>1018_04.D</u>	RRF4	<u>1018_05.D</u>	RRF5	<u>1018_06.D</u>	RRF6	<u>1018_07.D</u>				
RRF7	<u>1018_08.D</u>	RRF8	<u>1018_13.D</u>	RRF9	<u>1018_09.D</u>	RRF10	<u>1018_10.D</u>	RRF11	<u>1018_14.D</u>	RRF12	<u>1018_11.D</u>				
RRF13	<u>1018_12.D</u>														
COMPOUND	RRF1 0.01	RRF2 0.02	RRF3 0.035	RRF4 0.05	RRF5 0.1	RRF6 0.2	RRF7 0.5	RRF8 1	RRF9 2.5	RRF10 5	RRF11 10	RRF12 25	RRF13 40	— RRF	% RSD
1,2-Dichloroethane(sim)	1.495	1.634	1.639	1.668	1.712	1.638	1.550	1.499	1.512	1.555				1.590	4.86
1,1,1-Trichloroethane(sim)	2.324	2.333	2.259	2.320	2.675	2.563	2.422	2.278	2.324	2.404				2.390	5.57
Benzene(sim)			3.425	3.514	3.090	2.963	2.869	2.703	2.656					3.031	11.04
Carbon Tetrachloride(sim)	2.456	2.482	2.471	2.480	2.896	2.768	2.649	2.471	2.526					2.578	6.16
1,1-Dichloroethene(sim)	1.935	1.885	1.912	1.934	2.048	1.906	1.842	1.795	1.811	1.874				1.894	3.82
Trichlorotrifluoroethane(sim)	2.238	2.287	2.208	2.283	2.642	2.517	2.382	2.242	2.276	2.330				2.341	5.90
Trans-1,2-Dichloroethene(sim)	1.909	1.815	1.900	1.866	1.857	1.906	1.755	1.688	1.696	1.782				1.817	4.63
1,1-Dichloroethane(sim)	2.238	2.255	2.127	2.173	2.495	2.369	2.236	2.116	2.150	2.213				2.237	5.23
Cis-1,2-Dichloroethene(sim)	1.674	1.641	1.812	1.765	1.771	1.760	1.691	1.608	1.590	1.661				1.697	4.46
Chloroform(sim)	2.212	2.176	2.117	2.173	2.487	2.388	2.237	2.132	2.145	2.209				2.228	5.35
1,2-dichloropropane(sim)	0.395	0.446	0.449	0.455	0.514	0.492	0.461	0.431	0.446	0.459				0.455	7.05
Bromodichloromethane(sim)	0.684	0.736	0.688	0.750	0.790	0.753	0.718	0.650	0.686	0.704				0.716	5.82
Trichloroethene(sim)	0.511	0.510	0.486	0.504	0.586	0.558	0.522	0.491	0.506	0.519				0.519	5.89
1,4-Dioxane(sim)					0.208	0.165	0.162	0.192	0.184	0.188				0.183	9.33
cis-1,3-Dichloropropene(sim)	0.528	0.527	0.528	0.522	0.605	0.595	0.552	0.532	0.549					0.549	5.62
1,1,2-Trichloroethane(sim)	0.421	0.406	0.422	0.454	0.472	0.454	0.426	0.392	0.404	0.405				0.426	6.18
Dibromochloromethane(sim)	0.851	0.902	0.858	0.872	1.010	0.979	0.920	0.850	0.895					0.904	6.29
1,2-Dibromoethane(EDB)(sim)	0.729	0.722	0.703	0.745	0.805	0.759	0.713	0.685	0.696	0.727				0.728	4.77
Tetrachloroethene(sim)	0.779	0.755	0.749	0.762	0.779	0.748	0.689	0.655	0.675	0.692	0.658			0.722	6.70
Bromoform(sim)	1.756	1.878	1.810	1.869	2.027	2.084	1.980	1.872	1.936					1.912	5.47
m,p-Xylene(sim)	3.482	3.323	3.091	3.249	2.492	2.518	2.432	2.371	2.444	2.446				2.785	15.91
1,1,2,2-Tetrachloroethane(sim)	1.979	1.937	1.784	1.867	2.147	2.102	2.013	2.018	2.038	2.013				1.990	5.34
Benzyl chloride(sim)	qfi		0.027	0.043	0.088	0.165	0.478	1.090	2.480					Coef R2	1.00
1,3-Dichlorobenzene(sim)		1.848	1.610	1.433	1.524	1.696	1.845	1.938	2.202	2.274				1.819	15.84

(#) The maximum %RSD was not met for this compound

Note: m,p-xylene TV is 2 times the TV Listed

(l) linear (q) quadratic (i) inverse conc weight (i2) inverse conc weight squared (f) force through zero

Compounds not using average response (l, li, lfi, li2, lfi2, q, qi, qfi, qi2, qfi2) display concentrations and not response factors

6B
AIR INITIAL CALIBRATION DATA

Client: AMC-ENG

SDG No.: GCS16244

Calibration Date From: 10/18/24 18:11

Calibration Date Thru: 10/18/24 22:33

Method File: 24 AIR 1018.M

Laboratory File Ids

RRF1	1018_02.D	RRF2	1018_03.D	RRF3	1018_04.D	RRF4	1018_05.D	RRF5	1018_06.D	RRF6	1018_07.D	RRF7	1018_08.D	RRF8	1018_09.D	RRF9	1018_10.D	RRF10	1018_11.D	RRF11	1018_12.D	RRF12	1018_13.D	RRF13	1018_14.D	RRF14	1018_15.D	RRF15	1018_16.D	RRF16	1018_17.D	RRF17	1018_18.D	RRF18	1018_19.D	RRF19	1018_20.D	RRF20	1018_21.D	RRF21	1018_22.D	RRF22	1018_23.D	RRF23	1018_24.D	RRF24	1018_25.D	RRF25	1018_26.D	RRF26	1018_27.D	RRF27	1018_28.D	RRF28	1018_29.D	RRF29	1018_30.D	RRF30	1018_31.D	RRF31	1018_32.D	RRF32	1018_33.D	RRF33	1018_34.D	RRF34	1018_35.D	RRF35	1018_36.D	RRF36	1018_37.D	RRF37	1018_38.D	RRF38	1018_39.D	RRF39	1018_40.D	RRF40	1018_41.D	RRF41	1018_42.D	RRF42	1018_43.D	RRF43	1018_44.D	RRF44	1018_45.D	RRF45	1018_46.D	RRF46	1018_47.D	RRF47	1018_48.D	RRF48	1018_49.D	RRF49	1018_50.D	RRF50	1018_51.D	RRF51	1018_52.D	RRF52	1018_53.D	RRF53	1018_54.D	RRF54	1018_55.D	RRF55	1018_56.D	RRF56	1018_57.D	RRF57	1018_58.D	RRF58	1018_59.D	RRF59	1018_60.D	RRF60	1018_61.D	RRF61	1018_62.D	RRF62	1018_63.D	RRF63	1018_64.D	RRF64	1018_65.D	RRF65	1018_66.D	RRF66	1018_67.D	RRF67	1018_68.D	RRF68	1018_69.D	RRF69	1018_70.D	RRF70	1018_71.D	RRF71	1018_72.D	RRF72	1018_73.D	RRF73	1018_74.D	RRF74	1018_75.D	RRF75	1018_76.D	RRF76	1018_77.D	RRF77	1018_78.D	RRF78	1018_79.D	RRF79	1018_80.D	RRF80	1018_81.D	RRF81	1018_82.D	RRF82	1018_83.D	RRF83	1018_84.D	RRF84	1018_85.D	RRF85	1018_86.D	RRF86	1018_87.D	RRF87	1018_88.D	RRF88	1018_89.D	RRF89	1018_90.D	RRF90	1018_91.D	RRF91	1018_92.D	RRF92	1018_93.D	RRF93	1018_94.D	RRF94	1018_95.D	RRF95	1018_96.D	RRF96	1018_97.D	RRF97	1018_98.D	RRF98	1018_99.D	RRF99	1018_100.D	RRF100	1018_101.D	RRF101	1018_102.D	RRF102	1018_103.D	RRF103	1018_104.D	RRF104	1018_105.D	RRF105	1018_106.D	RRF106	1018_107.D	RRF107	1018_108.D	RRF108	1018_109.D	RRF109	1018_110.D	RRF110	1018_111.D	RRF111	1018_112.D	RRF112	1018_113.D	RRF113	1018_114.D	RRF114	1018_115.D	RRF115	1018_116.D	RRF116	1018_117.D	RRF117	1018_118.D	RRF118	1018_119.D	RRF119	1018_120.D	RRF120	1018_121.D	RRF121	1018_122.D	RRF122	1018_123.D	RRF123	1018_124.D	RRF124	1018_125.D	RRF125	1018_126.D	RRF126	1018_127.D	RRF127	1018_128.D	RRF128	1018_129.D	RRF129	1018_130.D	RRF130	1018_131.D	RRF131	1018_132.D	RRF132	1018_133.D	RRF133	1018_134.D	RRF134	1018_135.D	RRF135	1018_136.D	RRF136	1018_137.D	RRF137	1018_138.D	RRF138	1018_139.D	RRF139	1018_140.D	RRF140	1018_141.D	RRF141	1018_142.D	RRF142	1018_143.D	RRF143	1018_144.D	RRF144	1018_145.D	RRF145	1018_146.D	RRF146	1018_147.D	RRF147	1018_148.D	RRF148	1018_149.D	RRF149	1018_150.D	RRF150	1018_151.D	RRF151	1018_152.D	RRF152	1018_153.D	RRF153	1018_154.D	RRF154	1018_155.D	RRF155	1018_156.D	RRF156	1018_157.D	RRF157	1018_158.D	RRF158	1018_159.D	RRF159	1018_160.D	RRF160	1018_161.D	RRF161	1018_162.D	RRF162	1018_163.D	RRF163	1018_164.D	RRF164	1018_165.D	RRF165	1018_166.D	RRF166	1018_167.D	RRF167	1018_168.D	RRF168	1018_169.D	RRF169	1018_170.D	RRF170	1018_171.D	RRF171	1018_172.D	RRF172	1018_173.D	RRF173	1018_174.D	RRF174	1018_175.D	RRF175	1018_176.D	RRF176	1018_177.D	RRF177	1018_178.D	RRF178	1018_179.D	RRF179	1018_180.D	RRF180	1018_181.D	RRF181	1018_182.D	RRF182	1018_183.D	RRF183	1018_184.D	RRF184	1018_185.D	RRF185	1018_186.D	RRF186	1018_187.D	RRF187	1018_188.D	RRF188	1018_189.D	RRF189	1018_190.D	RRF190	1018_191.D	RRF191	1018_192.D	RRF192	1018_193.D	RRF193	1018_194.D	RRF194	1018_195.D	RRF195	1018_196.D	RRF196	1018_197.D	RRF197	1018_198.D	RRF198	1018_199.D	RRF199	1018_200.D	RRF200	1018_201.D	RRF201	1018_202.D	RRF202	1018_203.D	RRF203	1018_204.D	RRF204	1018_205.D	RRF205	1018_206.D	RRF206	1018_207.D	RRF207	1018_208.D	RRF208	1018_209.D	RRF209	1018_210.D	RRF210	1018_211.D	RRF211	1018_212.D	RRF212	1018_213.D	RRF213	1018_214.D	RRF214	1018_215.D	RRF215	1018_216.D	RRF216	1018_217.D	RRF217	1018_218.D	RRF218	1018_219.D	RRF219	1018_220.D	RRF220	1018_221.D	RRF221	1018_222.D	RRF222	1018_223.D	RRF223	1018_224.D	RRF224	1018_225.D	RRF225	1018_226.D	RRF226	1018_227.D	RRF227	1018_228.D	RRF228	1018_229.D	RRF229	1018_230.D	RRF230	1018_231.D	RRF231	1018_232.D	RRF232	1018_233.D	RRF233	1018_234.D	RRF234	1018_235.D	RRF235	1018_236.D	RRF236	1018_237.D	RRF237	1018_238.D	RRF238	1018_239.D	RRF239	1018_240.D	RRF240	1018_241.D	RRF241	1018_242.D	RRF242	1018_243.D	RRF243	1018_244.D	RRF244	1018_245.D	RRF245	1018_246.D	RRF246	1018_247.D	RRF247	1018_248.D	RRF248	1018_249.D	RRF249	1018_250.D	RRF250	1018_251.D	RRF251	1018_252.D	RRF252	1018_253.D	RRF253	1018_254.D	RRF254	1018_255.D	RRF255	1018_256.D	RRF256	1018_257.D	RRF257	1018_258.D	RRF258	1018_259.D	RRF259	1018_260.D	RRF260	1018_261.D	RRF261	1018_262.D	RRF262	1018_263.D	RRF263	1018_264.D	RRF264	1018_265.D	RRF265	1018_266.D	RRF266	1018_267.D	RRF267	1018_268.D	RRF268	1018_269.D	RRF269	1018_270.D	RRF270	1018_271.D	RRF271	1018_272.D	RRF272	1018_273.D	RRF273	1018_274.D	RRF274	1018_275.D	RRF275	1018_276.D	RRF276	1018_277.D	RRF277	1018_278.D	RRF278	1018_279.D	RRF279	1018_280.D	RRF280	1018_281.D	RRF281	1018_282.D	RRF282	1018_283.D	RRF283	1018_284.D	RRF284	1018_285.D	RRF285	1018_286.D	RRF286	1018_287.D	RRF287	1018_288.D	RRF288	1018_289.D	RRF289	1018_290.D	RRF290	1018_291.D	RRF291	1018_292.D	RRF292	1018_293.D	RRF293	1018_294.D	RRF294	1018_295.D	RRF295	1018_296.D	RRF296	1018_297.D	RRF297	1018_298.D	RRF298	1018_299.D	RRF299	1018_300.D	RRF300	1018_301.D	RRF301	1018_302.D	RRF302	1018_303.D	RRF303	1018_304.D	RRF304	1018_305.D	RRF305	1018_306.D	RRF306	1018_307.D	RRF307	1018_308.D	RRF308	1018_309.D	RRF309	1018_310.D	RRF310	1018_311.D	RRF311	1018_312.D	RRF312	1018_313.D	RRF313	1018_314.D	RRF314	1018_315.D	RRF315	1018_316.D	RRF316	1018_317.D	RRF317	1018_318.D	RRF318	1018_319.D	RRF319	1018_320.D	RRF320	1018_321.D	RRF321	1018_322.D	RRF322	1018_323.D	RRF323	1018_324.D	RRF324	1018_325.D	RRF325	1018_326.D	RRF326	1018_327.D	RRF327	1018_328.D	RRF328	1018_329.D	RRF329	1018_330.D	RRF330	1018_331.D	RRF331	1018_332.D	RRF332	1018_333.D	RRF333	1018_334.D	RRF334	1018_335.D	RRF335	1018_336.D	RRF336	1018_337.D	RRF337	1018_338.D	RRF338	1018_339.D	RRF339	1018_340.D	RRF340	1018_341.D	RRF341	1018_342.D	RRF342	1018_343.D	RRF343	1018_344.D	RRF344	1018_345.D	RRF345	1018_346.D	RRF346	1018_347.D	RRF347	1018_348.D	RRF348	1018_349.D	RRF349	1018_350.D	RRF350	1018_351.D	RRF351	1018_352.D	RRF352	1018_353.D	RRF353	1018_354.D	RRF354	1018_355.D	RRF355	1018_356.D	RRF356	1018_357.D	RRF357	1018_358.D	RRF358	1018_359.D	RRF359	1018_360.D	RRF360	1018_361.D	RRF361	1018_362.D	RRF362	1018_363.D	RRF363	1018_364.D	RRF364	1018_365.D	RRF365	1018_366.D	RRF366	1018_367.D	RRF367	1018_368.D	RRF368	1018_369.D	RRF369	1018_370.D	RRF370	1018_371.D	RRF371	1018_372.D	RRF372	1018_373.D	RRF373	1018_374.D	RRF374	1018_375.D	RRF375	1018_376.D	RRF376	1018_377.D	RRF377	1018_378.D	RRF378	1018_379.D	RRF379	1018_380.D	RRF380	1018_381.D	RRF381	1018_382.D	RRF382	1018_383.D	RRF383	1018_384.D	RRF384	1018_385.D	RRF385	1018_386.D	RRF386	1018_387.D	RRF387	1018_388.D	RRF388	1018_389.D	RRF389	1018_390.D	RRF390	1018_391.D	RRF391	1018_392.D	RRF392	1018_393.D	RRF393	1018_394.D	RRF394	1018_395.D	RRF395	1018_396.D	RRF396	1018_397.D	RRF397	1018_398.D	RRF398	1018_399.D	RRF399	1018_400.D	RRF400	1018_401.D	RRF401	1018_402.D	RRF402	1018_403.D	RRF403	1018_404.D	RRF404	1018_405.D	RRF405	1018_406.D	RRF406	1018_407.D	RRF407	1018_408.D	RRF408	1018_409.D	RRF409	1018_410.D	RRF410	1018_411.D	RRF411	1018_412.D	RRF412	1018_413.D	RRF413	1018_414.D	RRF414	1018_415.D	RRF415	1018_416.D	RRF416	1018_417.D	RRF417	1018_418.D	RRF418	1018_419.D	RRF419	1018_420.D	RRF420	1018_421.D	RRF421	1018_422.D	RRF422	1018_423.D	RRF423	1018_424.D	RRF424	1018_425.D	RRF425	1018_426.D	RRF426	1018_427.D	RRF427	1018_428.D	RRF428	1018_429.D	RRF429	1018_430.D	RRF430	1018_431.D	RRF431	1018_432.D	RRF432	1018_433.D	RRF433	1018_434.D	RRF434	1018_435.D	RRF435	1018_436.D	RRF436	1018_437.D	RRF437	1018_438.D	RRF438	1018_439.D	RRF439	1018_440.D	RRF440	1018_441.D	RRF441	1018_442.D	RRF442	1018_443.D	RRF443	1018_444.D	RRF444	1018_445.D	RRF445	1018_446.D	RRF446	1018_447.D	RRF447	1018_448.D	RRF448	1018_449.D	RRF449	1018_450.D	RRF450	1018_451.D	RRF451	1018_452.D	RRF452	1018_453.D	RRF453	1018_454.D	RRF454	1018_455.D	RRF455	1018_456.D	RRF456	1018_457.D	RRF457	1018_458.D	RRF458	1018_459.D	RRF459	1018_460.D	RRF460	1018_461.D	RRF461	1018_462.D	RRF462	1018_463.D	RRF463	1018_464.D	RRF464	1018_465.D	RRF465	1018_466.D	RRF466	1018_467.D	RRF467	1018_468.D	RRF468	1018_469.D	RRF469	1018_470.D	RRF470	1018_471.D	RRF471	1018_472.D	RRF472	1018_473.D	RRF473	1018_474.D	RRF474	1018_475.D	RRF475	1018_476.D	RRF476	1018_477.D	RRF477	1018_478.D	RRF478	1018_479.D	RRF479	1018_480.D	RRF480	1018_481.D	RRF481	1018_482.D	RRF482	1018_483.D	RRF483	1018_484.D	RRF484	1018_485.D	RRF485	1018_486.D	RRF486	1018_487.D	RRF487	1018_488.D	RRF488	1018_489.D	RRF489	1018_490.D	RRF490	1018_491.D	RRF491	1018_492.D	RRF492	1018_493.D	RRF493	1018_494.D	RRF494	1018_495.D	RRF495	1018_496.D	RRF496	1018_497.D	RRF497	1018_498.D	RRF498	1018_499.D	RRF499	1018_500.D	RRF500	1018_501.D	RRF501	1018_502.D	RRF502	1018_503.D	RRF503	1018_504.D	RRF504	1018_505.D	RRF505	1018_506.D	RRF506	1018_507.D	RRF507	1018_508.D	RRF508	1018_509.D	RRF509	1018_510.D	RRF510	1018_511.D	RRF511	1018_512.D	RRF512	1018_513.D	RRF513	1018_514.D	RRF514	1018_515.D	RRF515	1018_516.D	RRF516	1018_517.D	RRF517	1018_518.D	RRF518	1018_519.D	RRF519	1018_520.D	RRF520	1018_521.D	RRF521	1018_522.D	RRF522	1018_523.D	RRF523	1018_524.D	RRF524	1018_525.D	RRF525

Note: m,p-xylene TV is 2 times the TV Listed

(l) linear (q) quadratic (i) inverse conc weight (i2) inverse conc weight squared (f) force through zero

Compounds not using average response (l, li, lfi, li2, lfi2, q, qi, qfi, qi2, qfi2) display concentrations and not response factors

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2024\CHEM24\10OCT\18A\
 Data File : 1018_02.D
 Acq On : 18 Oct 2024 3:10 pm
 Operator : Keith
 Client ID : ICAL 0.01
 Lab ID : 0.01 (40cc -1); T01511
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 21 08:53:05 2024
 Quant Method : H:\AIR2024\CHEM24\Methods\24_AIR_1018.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Wed Sep 25 09:48:52 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	7.515	130	234562	10.000	ng	0.00
37) 1,4-Difluorobenzene	8.684	114	772326	10.000	ng	0.00
54) Chlorobenzene-d5	11.155	82	336024	10.000	ng	0.00
81) Bromochloromethane(sim)	7.518	130	234127	10.000	ng	# 0.00
96) 1,4-Difluorobenzene(sim)	8.684	114	772326	10.000	ng	0.00
106) Chlorobenzene-d5(sim)	11.155	82	336024	10.000	ng	0.00

System Monitoring Compounds						
63) % Bromofluorobenzene	11.989	95	435034	10.052	ppbv	0.00
Spiked Amount	10.000	Range 70 - 130	Recovery	= 100.50%		

Target Compounds	Qvalue					
2) Propylene	4.079	41	561	0.023	ppbv#	59
3) Dichlorodifluoromethane	4.145	85	297	0.005	ppbv#	48
4) Chloromethane	4.311	50	415	0.014	ppbv#	42
5) 1,2-Dichlorotetrafluor...	4.394	85	189	0.003	ppbv#	1
6) Vinyl Chloride	0.000	62	0	0.000	ppbv	0
7) 1,3-Butadiene	4.634	54	133	0.006	ppbv#	19
8) Bromomethane	4.850	94	493	0.021	ppbv#	11
9) Chloroethane	0.000	64	0	0.000	ppbv	0
11) Ethanol	5.082	45	1247	0.091	ppbv#	53
12) Acetone	5.412	43	93	0.002	ppbv#	44
13) Trichlorofluoromethane	5.590	101	531	0.008	ppbv#	24
14) Isopropylalcohol	5.639	45	2321	0.040	ppbv#	77
15) Acrylonitrile	0.000	53	0	0.000	ppbv	0
16) 1,1-Dichloroethene	6.040	61	102	0.002	ppbv#	27
17) Methylene Chloride	6.118	49	1586	0.041	ppbv#	60
20) Carbon Disulfide	6.350	76	478	0.008	ppbv#	76
21) Trichlorotrifluoroethane	6.284	101	198	0.004	ppbv#	53
22) Trans-1,2-Dichloroethene	6.737	61	130	0.003	ppbv#	1
23) 1,1-Dichloroethane	6.875	63	281	0.006	ppbv#	52
24) Methyl tert-butyl ethe...	6.931	73	298	0.005	ppbv#	67
26) Methyl Ethyl Ketone	7.142	43	1063	0.017	ppbv#	67
27) Cis-1,2-Dichloroethene	7.410	61	152	0.004	ppbv#	1
28) Hexane	7.531	57	174	0.004	ppbv#	1
29) Chloroform	7.588	83	273	0.005	ppbv#	27
30) Ethyl acetate	0.000	61	0	0.000	ppbv	0
31) Tetrahydrofuran	7.864	42	254	0.009	ppbv#	47
32) 1,2-Dichloroethane	0.000	62	0	0.000	ppbv	0
33) 1,1,1-Trichloroethane	8.221	97	311	0.006	ppbv#	22
34) Benzene	8.502	78	1033	0.016	ppbv#	53
35) Carbon Tetrachloride	8.597	117	159	0.003	ppbv#	1
36) Cyclohexane	8.675	84	1535	0.059	ppbv#	1
38) 1,2-dichloropropane	0.000	63	0	0.000	ppbv	0
39) Bromodichloromethane	9.090	83	318	0.006	ppbv	85
40) Trichloroethene	9.116	130	172	0.004	ppbv#	84
41) 2,2,4-trimethylpentane	9.125	57	1329	0.010	ppbv#	88
42) 1,4-Dioxane	0.000	88	0	0.000	ppbv	0
44) Heptane	9.255	43	568	0.010	ppbv#	56
45) cis-1,3-Dichloropropene	9.603	75	130	0.003	ppbv#	44
46) 4-Methyl-2-pentanone(M...	9.617	43	931	0.013	ppbv#	50
47) trans-1,3-Dichloropropene	0.000	75	0	0.000	ppbv	0
48) 1,1,2-Trichloroethane	9.997	97	125	0.004	ppbv#	67
49) Toluene	10.159	91	1116	0.013	ppbv#	91

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2024\CHEM24\10OCT\18A\
 Data File : 1018_02.D
 Acq On : 18 Oct 2024 3:10 pm
 Operator : Keith
 Client ID : ICAL 0.01
 Lab ID : 0.01 (40cc -1); T01511
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 21 08:53:05 2024
 Quant Method : H:\AIR2024\CHEM24\Methods\24_AIR_1018.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Wed Sep 25 09:48:52 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
50) Dibromochloromethane	10.419	129	541	0.008	ppbv#	66
51) 2-Hexanone(MBK)	10.286	43	1103	0.018	ppbv#	60
52) 1,2-Dibromoethane(EDB)	10.560	107	414	0.007	ppbv#	29
53) Tetrachloroethene	10.807	166	347	0.007	ppbv#	85
55) 1,1,1,2-Tetrachloroethane	11.162	131	298	0.007	ppbv#	55
56) Chlorobenzene	11.177	112	680	0.010	ppbv#	1
57) Ethylbenzene	11.367	91	1188	0.012	ppbv	86
58) m, p-Xylene	11.466	91	2028	0.026	ppbv#	91
59) Bromoform	11.541	173	513	0.008	ppbv#	48
60) Styrene	11.663	104	394	0.007	ppbv#	39
61) 1,1,2,2-Tetrachloroethane	11.731	83	342	0.005	ppbv#	3
62) o-Xylene	11.731	91	1383	0.017	ppbv#	92
65) Isopropylbenzene	12.049	105	1748	0.014	ppbv#	83
67) 4-Ethyltoluene	12.463	105	2359	0.020	ppbv#	80
68) 1,3,5-Trimethylbenzene	12.463	105	2359	0.024	ppbv	88
69) 1,2,4-Trimethylbenzene	12.711	105	901	0.009	ppbv#	85
71) Benzyl chloride	12.711	91	766	0.015	ppbv#	58
72) 1,3-Dichlorobenzene	12.828	146	320	0.005	ppbv#	23
73) 1,4-Dichlorobenzene	12.867	146	280	0.005	ppbv#	59
74) sec-Butylbenzene	12.875	105	1617	0.011	ppbv#	70
75) 4-Isopropyltoluene	12.960	119	3263	0.023	ppbv#	90
76) 1,2-Dichlorobenzene	13.092	146	497	0.008	ppbv#	32
77) n-Butylbenzene	13.232	91	670	0.007	ppbv#	47
78) 1,2,4-Trichlorobenzene	14.282	180	257	0.013	ppbv#	11
79) Naphthalene	14.383	128	5331	0.102	ppbv#	92
80) Hexachlorobutadiene	14.639	225	1089	0.015	ppbv	86
82] 1,2-Dichlorotetrafluor...	4.388	85	572m	0.010	ppbv	1
83] Vinyl Chloride(sim)	4.504	62	296	0.011	ppbv	96
84] Bromomethane(sim)	4.861	94	270m	0.011	ppbv	11
85] Trichlorofluoromethane...	5.587	101	672	0.010	ppbv#	99
86] 1,2-Dichloroethane(sim)	8.062	62	350m	0.009	ppbv	0
87] 1,1,1-Trichloroethane(...	8.224	97	544	0.010	ppbv#	97
88] Benzene(sim)	8.505	78	918m	0.013	ppbv	53
89] Carbon Tetrachloride(sim)	8.600	117	575	0.010	ppbv	94
90] 1,1-Dichloroethene(sim)	6.037	61	453m	0.010	ppbv	27
91] Trichlorotrifluoroetha...	6.293	101	524	0.010	ppbv#	96
92] Trans-1,2-Dichloroethe...	6.740	61	447m	0.011	ppbv	1
93] 1,1-Dichloroethane(sim)	6.878	63	524	0.010	ppbv#	94
94] Cis-1,2-Dichloroethene...	7.405	61	392m	0.010	ppbv	1
95] Chloroform(sim)	7.591	83	518	0.010	ppbv#	83
97] 1,2-dichloropropane(sim)	8.981	63	305m	0.009	ppbv	99
98] Bromodichloromethane(sim)	9.093	83	528m	0.010	ppbv	86
99] Trichloroethene(sim)	9.119	130	395	0.010	ppbv	96
100] 1,4-Dioxane(sim)	9.128	88	218m	0.015	ppbv	0
101] cis-1,3-Dichloropropen...	9.599	75	408	0.010	ppbv	97
102] 1,1,2-Trichloroethane(...	10.000	97	325m	0.010	ppbv	67
103] Dibromochloromethane(sim)	10.415	129	657	0.009	ppbv	96
104] 1,2-Dibromoethane(EDB)...	10.556	107	563m	0.010	ppbv	46
105] Tetrachloroethene(sim)	10.802	166	602	0.011	ppbv	99
107] Bromoform(sim)	11.544	173	590	0.009	ppbv	96
108] m, p-Xylene(sim)	11.461	91	2340m	0.025	ppbv	91
109] 1,1,2,2-Tetrachloroeth...	11.726	83	665	0.010	ppbv	97
112] Benzyl chloride(sim)	12.808	91	298m	0.009	ppbv	58
113] 1,3-Dichlorobenzene(sim)	12.831	146	621	0.010	ppbv	98
114] 1,4-Dichlorobenzene(sim)	12.870	146	579m	0.012	ppbv	59

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2024\CHEM24\10OCT\18A\
Data File : 1018_02.D
Acq On : 18 Oct 2024 3:10 pm
Operator : Keith
Client ID : ICAL 0.01
Lab ID : 0.01 (40cc -1); T01511
ALS Vial : 3 Sample Multiplier: 1

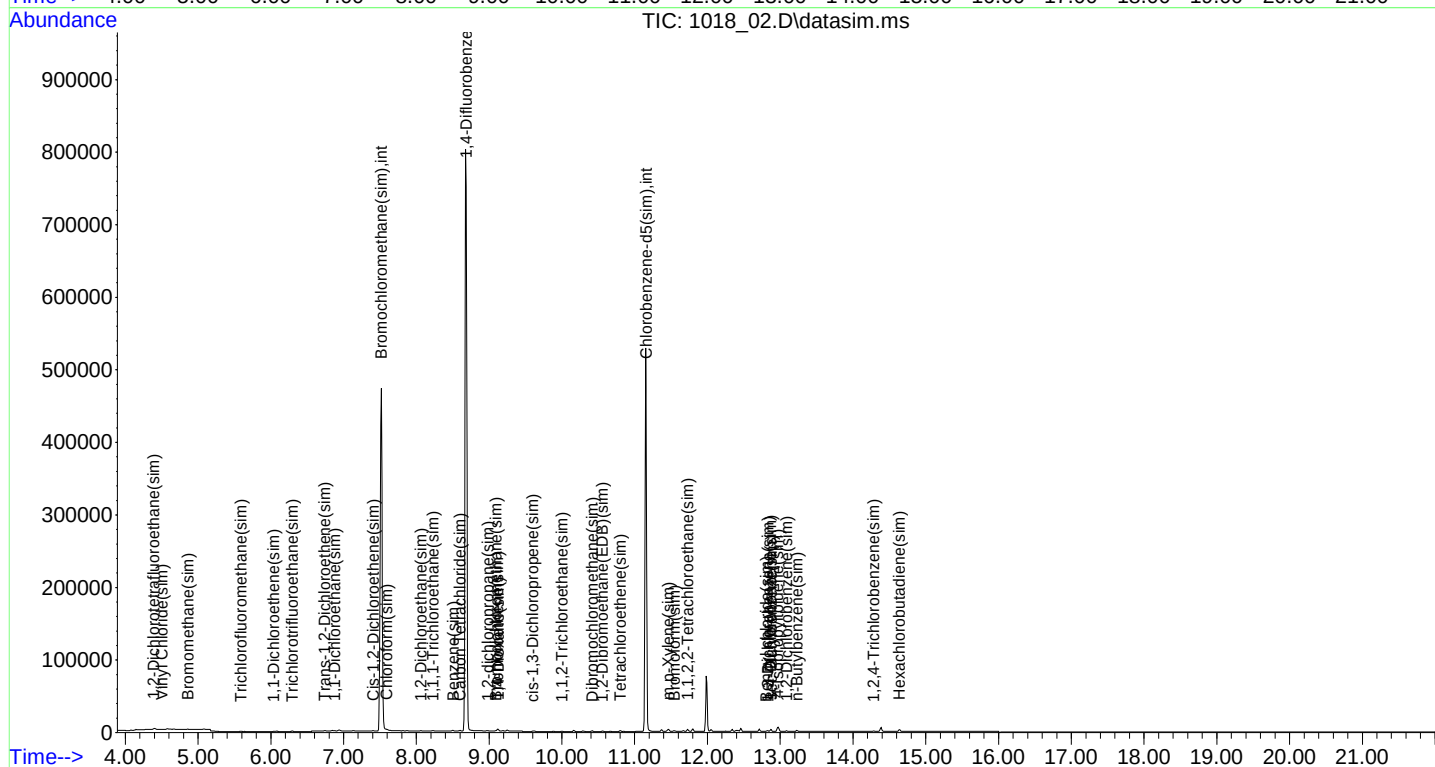
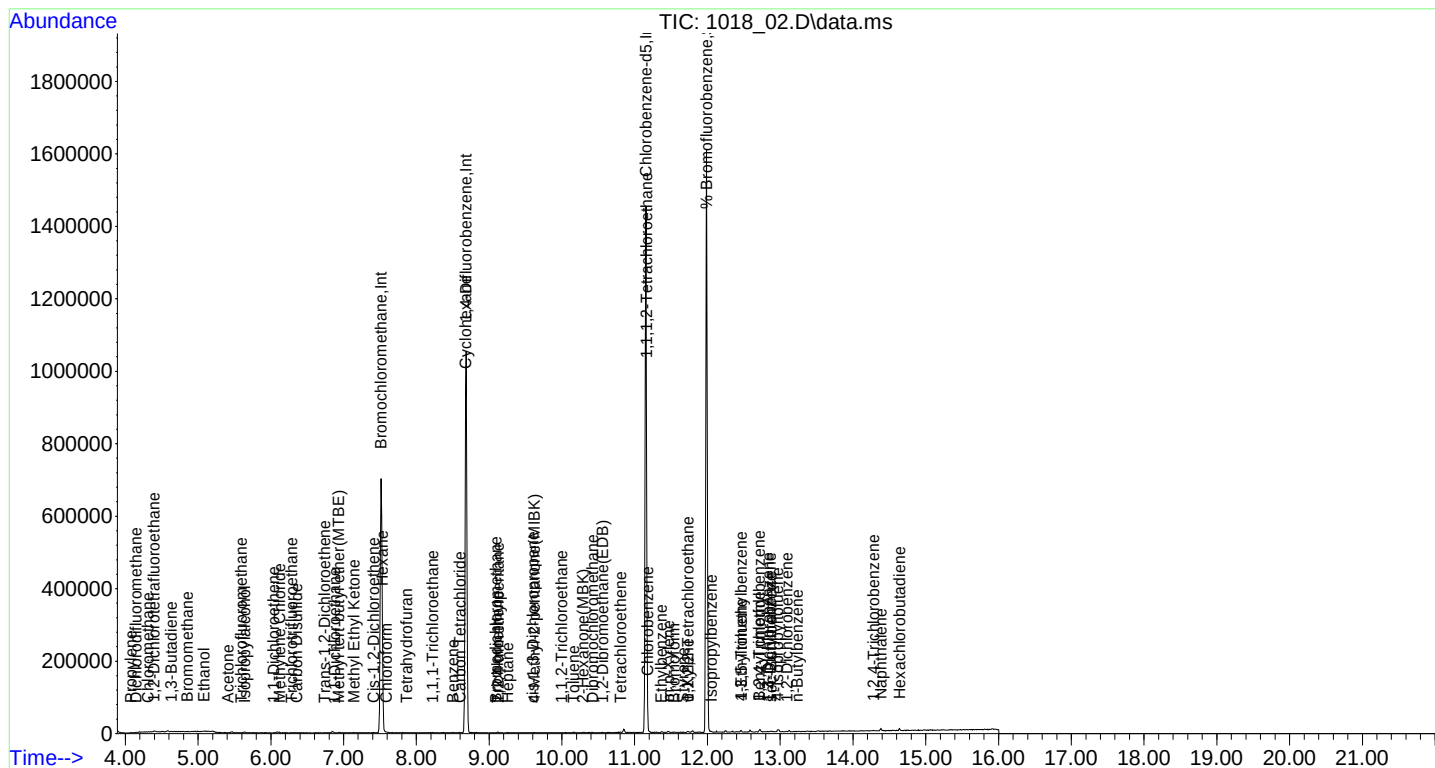
Quant Time: Oct 21 08:53:05 2024
Quant Method : H:\AIR2024\CHEM24\Methods\24_AIR_1018.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Wed Sep 25 09:48:52 2024
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
115]	sec-Butylbenzene(sim)	12.878	105	1711	0.010	ppbv	97
116]	4-Isopropyltoluene(sim)	12.963	119	3717m	0.025	ppbv	90
117]	1,2-Dichlorobenzene(sim)	13.087	146	708	0.011	ppbv	97
118]	n-Butylbenzene(sim)	13.227	91	983m	0.012	ppbv	47
119]	1,2,4-Trichlorobenzene...	14.285	180	482	0.054	ppbv	95
120]	Hexachlorobutadiene(sim)	14.635	225	1394m	0.020	ppbv	69

(#)out of range (m>manual integration reviewed by analyst (+)signals summed

Data Path : H:\AIR2024\CHEM24\10OCT\18A\
Data File : 1018_02.D
Acq On : 18 Oct 2024 3:10 pm
Operator : Keith
Client ID : ICAL 0.01
Lab ID : 0.01 (40cc -1); T01511
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 21 08:53:05 2024
Quant Method : H:\AIR2024\CHEM24\Methods\24_AIR_1018.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Wed Sep 25 09:48:52 2024
Response via : Initial Calibration



Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2024\CHEM24\10OCT\18A\
 Data File : 1018_03.D
 Acq On : 18 Oct 2024 3:45 pm
 Operator : Keith
 Client ID : ICAL 0.02
 Lab ID : 0.02 (80cc -1) ; T01511
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 21 08:54:05 2024
 Quant Method : H:\AIR2024\CHEM24\Methods\24_AIR_1018.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Wed Sep 25 09:48:52 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	7.515	130	235241	10.000	ng	0.00
37) 1,4-Difluorobenzene	8.684	114	773057	10.000	ng	0.00
54) Chlorobenzene-d5	11.155	82	330472	10.000	ng	0.00
81) Bromochloromethane(sim)	7.518	130	235284	10.000	ng	# 0.00
96) 1,4-Difluorobenzene(sim)	8.684	114	773057	10.000	ng	0.00
106) Chlorobenzene-d5(sim)	11.155	82	330472	10.000	ng	0.00

System Monitoring Compounds

63) % Bromofluorobenzene	11.989	95	441263	10.367	ppbv	0.00
Spiked Amount	10.000	Range 70 - 130	Recovery	=	103.70%	

Target Compounds

					Qvalue	
2) Propylene	4.079	41	977	0.040	ppbv#	84
3) Dichlorodifluoromethane	4.145	85	946	0.016	ppbv#	64
4) Chloromethane	4.302	50	842	0.028	ppbv#	42
5) 1,2-Dichlorotetrafluor...	4.394	85	978	0.017	ppbv#	82
6) Vinyl Chloride	4.493	62	452	0.017	ppbv#	44
7) 1,3-Butadiene	4.609	54	581	0.026	ppbv#	86
8) Bromomethane	4.850	94	934	0.040	ppbv#	23
9) Chloroethane	0.000	64	0	0.000	ppbv	0
11) Ethanol	5.090	45	1222	0.089	ppbv#	1
12) Acetone	5.461	43	4441	0.096	ppbv	96
13) Trichlorofluoromethane	5.584	101	1054	0.016	ppbv#	89
14) Isopropylalcohol	5.639	45	3069	0.053	ppbv#	86
15) Acrylonitrile	5.784	53	206	0.009	ppbv#	27
16) 1,1-Dichloroethene	6.040	61	710	0.016	ppbv#	70
17) Methylene Chloride	6.112	49	1873	0.048	ppbv#	78
20) Carbon Disulfide	6.356	76	968	0.015	ppbv#	76
21) Trichlorotrifluoroethane	6.290	101	1008	0.019	ppbv#	78
22) Trans-1,2-Dichloroethene	6.745	61	468	0.011	ppbv#	52
23) 1,1-Dichloroethane	6.875	63	792	0.016	ppbv#	52
24) Methyl tert-butyl ethe...	6.931	73	1092	0.020	ppbv#	69
26) Methyl Ethyl Ketone	7.126	43	1863	0.030	ppbv#	67
27) Cis-1,2-Dichloroethene	7.410	61	681	0.017	ppbv#	62
28) Hexane	7.531	57	856	0.020	ppbv#	85
29) Chloroform	7.596	83	807	0.016	ppbv#	71
30) Ethyl acetate	0.000	61	0	0.000	ppbv	0
31) Tetrahydrofuran	7.864	42	373	0.013	ppbv#	47
32) 1,2-Dichloroethane	8.067	62	645	0.018	ppbv#	43
33) 1,1,1-Trichloroethane	8.229	97	871	0.017	ppbv#	87
34) Benzene	8.510	78	1438	0.022	ppbv	95
35) Carbon Tetrachloride	8.597	117	998	0.016	ppbv#	81
36) Cyclohexane	8.675	84	1732	0.066	ppbv#	5
38) 1,2-dichloropropane	8.978	63	600	0.018	ppbv#	76
39) Bromodichloromethane	9.090	83	1043	0.019	ppbv	91
40) Trichloroethene	9.116	130	628	0.016	ppbv#	63
41) 2,2,4-trimethylpentane	9.125	57	2740	0.020	ppbv	95
42) 1,4-Dioxane	0.000	88	0	0.000	ppbv	0
44) Heptane	9.254	43	1214	0.022	ppbv#	73
45) cis-1,3-Dichloropropene	9.603	75	712	0.018	ppbv#	44
46) 4-Methyl-2-pentanone(M...	9.617	43	1706	0.024	ppbv#	79
47) trans-1,3-Dichloropropene	9.884	75	503	0.015	ppbv#	44
48) 1,1,2-Trichloroethane	9.997	97	530	0.017	ppbv#	76
49) Toluene	10.166	91	2177	0.026	ppbv#	86

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2024\CHEM24\10OCT\18A\
 Data File : 1018_03.D
 Acq On : 18 Oct 2024 3:45 pm
 Operator : Keith
 Client ID : ICAL 0.02
 Lab ID : 0.02 (80cc -1) ; T01511
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 21 08:54:05 2024
 Quant Method : H:\AIR2024\CHEM24\Methods\24_AIR_1018.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Wed Sep 25 09:48:52 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
50) Dibromochloromethane	10.412	129	1222	0.017	ppbv#	84
51) 2-Hexanone(MBK)	10.293	43	1373	0.023	ppbv#	60
52) 1,2-Dibromoethane(EDB)	10.560	107	983	0.018	ppbv	83
53) Tetrachloroethene	10.799	166	953	0.018	ppbv#	82
55) 1,1,1,2-Tetrachloroethane	11.162	131	466	0.011	ppbv#	22
56) Chlorobenzene	11.177	112	1345	0.019	ppbv#	1
57) Ethylbenzene	11.367	91	2658	0.026	ppbv	87
58) m,p-Xylene	11.458	91	4392	0.058	ppbv	92
59) Bromoform	11.541	173	1032	0.016	ppbv	96
60) Styrene	11.663	104	1151	0.020	ppbv#	76
61) 1,1,2,2-Tetrachloroethane	11.723	83	1149	0.019	ppbv#	68
62) o-Xylene	11.731	91	2541	0.032	ppbv	98
65) Isopropylbenzene	12.049	105	3180	0.027	ppbv	98
67) 4-Ethyltoluene	12.462	105	5140	0.045	ppbv#	76
68) 1,3,5-Trimethylbenzene	12.462	105	5140	0.052	ppbv#	89
69) 1,2,4-Trimethylbenzene	12.711	105	1337	0.013	ppbv#	85
71) Benzyl chloride	12.812	91	291	0.006	ppbv#	58
72) 1,3-Dichlorobenzene	12.828	146	834	0.012	ppbv#	82
73) 1,4-Dichlorobenzene	12.867	146	603	0.011	ppbv#	66
74) sec-Butylbenzene	12.875	105	2882	0.019	ppbv#	84
75) 4-Isopropyltoluene	12.960	119	5901	0.043	ppbv	99
76) 1,2-Dichlorobenzene	13.084	146	882	0.014	ppbv#	69
77) n-Butylbenzene	13.232	91	1309	0.014	ppbv	91
79) Naphthalene	14.383	128	5199	0.101	ppbv#	91
80) Hexachlorobutadiene	14.639	225	1868	0.027	ppbv	85
82] 1,2-Dichlorotetrafluor...	4.397	85	1194m	0.020	ppbv	82
83] Vinyl Chloride(sim)	4.504	62	505m	0.018	ppbv	93
84] Bromomethane(sim)	4.853	94	508m	0.020	ppbv	23
85] Trichlorofluoromethane...	5.587	101	1341	0.019	ppbv#	99
86] 1,2-Dichloroethane(sim)	8.061	62	769m	0.021	ppbv	43
87] 1,1,1-Trichloroethane(...	8.224	97	1098	0.020	ppbv#	97
88] Benzene(sim)	8.505	78	1797m	0.025	ppbv	95
89] Carbon Tetrachloride(sim)	8.600	117	1168	0.019	ppbv	97
90] 1,1-Dichloroethene(sim)	6.043	61	887m	0.020	ppbv	70
91] Trichlorotrifluoroetha...	6.293	101	1076	0.020	ppbv#	98
92] Trans-1,2-Dichloroethe...	6.740	61	854m	0.020	ppbv	52
93] 1,1-Dichloroethane(sim)	6.877	63	1061	0.020	ppbv#	93
94] Cis-1,2-Dichloroethene...	7.405	61	772m	0.019	ppbv	62
95] Chloroform(sim)	7.591	83	1024	0.020	ppbv#	90
97] 1,2-dichloropropane(sim)	8.981	63	690m	0.020	ppbv	100
98] Bromodichloromethane(sim)	9.093	83	1138m	0.021	ppbv	92
99] Trichloroethene(sim)	9.119	130	789	0.020	ppbv	96
100] 1,4-Dioxane(sim)	9.128	88	355m	0.025	ppbv	0
101] cis-1,3-Dichloropropen...	9.599	75	815	0.019	ppbv	98
102] 1,1,2-Trichloroethane(...	10.000	97	627m	0.019	ppbv	71
103] Dibromochloromethane(sim)	10.415	129	1395	0.020	ppbv	98
104] 1,2-Dibromoethane(EDB)...	10.556	107	1117m	0.020	ppbv	83
105] Tetrachloroethene(sim)	10.802	166	1167	0.021	ppbv	95
107] Bromoform(sim)	11.544	173	1241	0.020	ppbv	98
108] m,p-Xylene(sim)	11.458	91	4392	0.048	ppbv#	92
109] 1,1,2,2-Tetrachloroeth...	11.726	83	1280	0.019	ppbv	98
112] Benzyl chloride(sim)	12.807	91	561m	0.016	ppbv	58
113] 1,3-Dichlorobenzene(sim)	12.831	146	1064	0.018	ppbv	99
114] 1,4-Dichlorobenzene(sim)	12.870	146	890m	0.019	ppbv	66
115] sec-Butylbenzene(sim)	12.877	105	3156	0.019	ppbv	99

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2024\CHEM24\10OCT\18A\
Data File : 1018_03.D
Acq On : 18 Oct 2024 3:45 pm
Operator : Keith
Client ID : ICAL 0.02
Lab ID : 0.02 (80cc -1) ; T01511
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 21 08:54:05 2024
Quant Method : H:\AIR2024\CHEM24\Methods\24_AIR_1018.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Wed Sep 25 09:48:52 2024
Response via : Initial Calibration

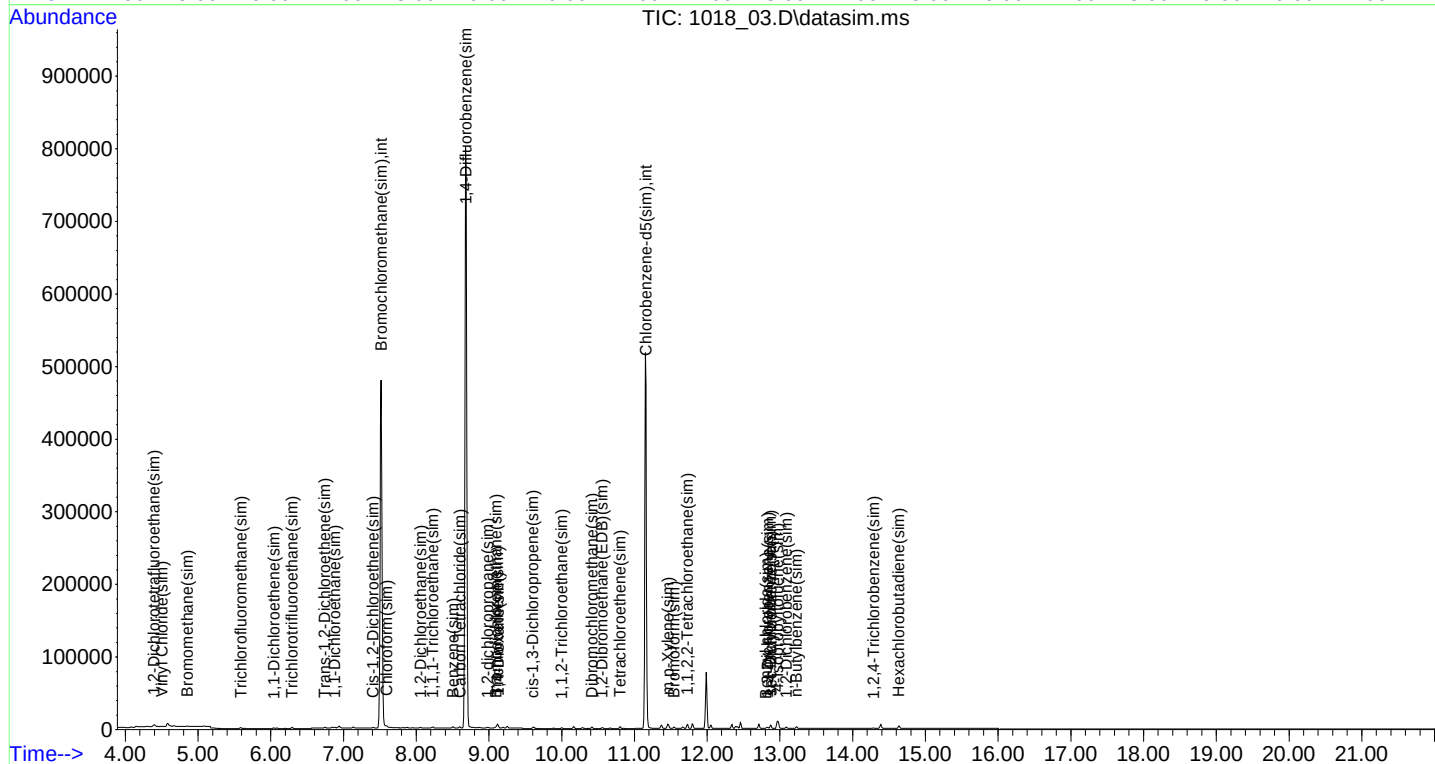
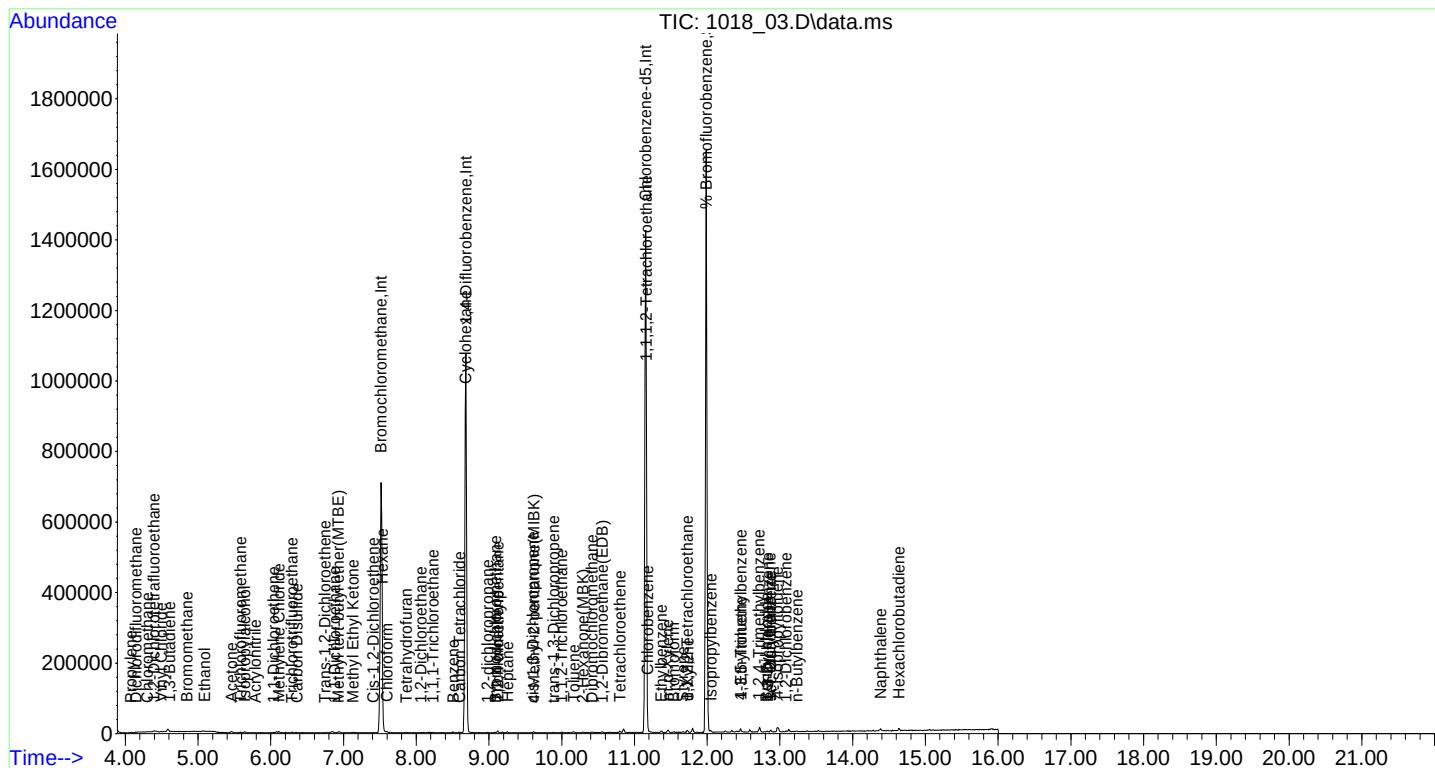
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
116]	4-Isopropyltoluene(sim)	12.960	119	5901	0.041	ppbv	99
117]	1,2-Dichlorobenzene(sim)	13.087	146	1207	0.018	ppbv	98
118]	n-Butylbenzene(sim)	13.227	91	1533m	0.019	ppbv	91
119]	1,2,4-Trichlorobenzene...	14.285	180	433	0.050	ppbv	91
120]	Hexachlorobutadiene(sim)	14.634	225	1852m	0.027	ppbv	44

(#)out of range (m>manual integration reviewed by analyst (+)signals summed

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2024\CHEM24\10OCT\18A\
Data File : 1018_03.D
Acq On : 18 Oct 2024 3:45 pm
Operator : Keith
Client ID : ICAL 0.02
Lab ID : 0.02 (80cc -1) ; T01511
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 21 08:54:05 2024
Quant Method : H:\AIR2024\CHEM24\Methods\24_AIR_1018.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Wed Sep 25 09:48:52 2024
Response via : Initial Calibration



Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2024\CHEM24\10OCT\18A\
 Data File : 1018_04.D
 Acq On : 18 Oct 2024 4:24 pm
 Operator : Keith
 Client ID : ICAL 0.035
 Lab ID : 0.035 (140cc -1) ; T01511
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 21 08:55:05 2024
 Quant Method : H:\AIR2024\CHEM24\Methods\24_AIR_1018.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Wed Sep 25 09:48:52 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	7.515	130	237098	10.000	ng	0.00
37) 1,4-Difluorobenzene	8.684	114	769195	10.000	ng	0.00
54) Chlorobenzene-d5	11.155	82	331830	10.000	ng	0.00
81) Bromochloromethane(sim)	7.518	130	237303	10.000	ng	# 0.00
96) 1,4-Difluorobenzene(sim)	8.684	114	769195	10.000	ng	0.00
106) Chlorobenzene-d5(sim)	11.155	82	331830	10.000	ng	0.00
System Monitoring Compounds						
63) % Bromofluorobenzene	11.989	95	432220	10.113	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	101.10%
Target Compounds						
					Qvalue	
2) Propylene	4.079	41	1554	0.063	ppbv	96
3) Dichlorodifluoromethane	4.145	85	2024	0.033	ppbv#	82
4) Chloromethane	4.303	50	1185	0.039	ppbv#	42
5) 1,2-Dichlorotetrafluor...	4.402	85	2065	0.036	ppbv#	85
6) Vinyl Chloride	4.502	62	876	0.033	ppbv#	44
7) 1,3-Butadiene	4.618	54	754	0.033	ppbv#	70
8) Bromomethane	4.858	94	1042	0.045	ppbv#	62
9) Chloroethane	4.999	64	279	0.027	ppbv#	39
11) Ethanol	5.082	45	2146	0.156	ppbv#	74
12) Acetone	5.461	43	5597	0.119	ppbv	96
13) Trichlorofluoromethane	5.578	101	2261	0.033	ppbv#	90
14) Isopropylalcohol	5.639	45	4147	0.071	ppbv#	87
15) Acrylonitrile	5.778	53	775	0.033	ppbv#	73
16) 1,1-Dichloroethene	6.040	61	1474	0.034	ppbv#	73
17) Methylene Chloride	6.112	49	2501	0.063	ppbv	90
20) Carbon Disulfide	6.350	76	2009	0.032	ppbv#	76
21) Trichlorotrifluoroethane	6.290	101	1523	0.029	ppbv	92
22) Trans-1,2-Dichloroethene	6.745	61	1430	0.034	ppbv#	74
23) 1,1-Dichloroethane	6.875	63	1605	0.033	ppbv#	52
24) Methyl tert-butyl ethe...	6.923	73	1816	0.033	ppbv#	85
26) Methyl Ethyl Ketone	7.134	43	2841	0.045	ppbv#	74
27) Cis-1,2-Dichloroethene	7.410	61	1268	0.032	ppbv#	90
28) Hexane	7.523	57	1234	0.029	ppbv#	89
29) Chloroform	7.588	83	1619	0.032	ppbv	90
30) Ethyl acetate	7.531	61	143	0.016	ppbv#	33
31) Tetrahydrofuran	7.823	42	139	0.005	ppbv#	47
32) 1,2-Dichloroethane	8.050	62	1004	0.027	ppbv#	72
33) 1,1,1-Trichloroethane	8.221	97	1563	0.029	ppbv	95
34) Benzene	8.502	78	2247	0.034	ppbv#	85
35) Carbon Tetrachloride	8.597	117	1923	0.031	ppbv	93
36) Cyclohexane	8.675	84	2096	0.080	ppbv#	34
38) 1,2-dichloropropane	8.978	63	1091	0.033	ppbv#	70
39) Bromodichloromethane	9.090	83	1664	0.031	ppbv	90
40) Trichloroethene	9.116	130	1251	0.032	ppbv#	83
41) 2,2,4-trimethylpentane	9.125	57	4545	0.033	ppbv	92
42) 1,4-Dioxane	9.125	88	366	0.026	ppbv#	81
44) Heptane	9.254	43	2134	0.039	ppbv#	84
45) cis-1,3-Dichloropropene	9.596	75	1255	0.031	ppbv	78
46) 4-Methyl-2-pentanone(M...	9.617	43	2747	0.039	ppbv#	78
47) trans-1,3-Dichloropropene	9.884	75	834	0.026	ppbv#	57
48) 1,1,2-Trichloroethane	10.004	97	897	0.028	ppbv	93
49) Toluene	10.166	91	3369	0.040	ppbv#	93

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2024\CHEM24\10OCT\18A\
 Data File : 1018_04.D
 Acq On : 18 Oct 2024 4:24 pm
 Operator : Keith
 Client ID : ICAL 0.035
 Lab ID : 0.035 (140cc -1) ; T01511
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 21 08:55:05 2024
 Quant Method : H:\AIR2024\CHEM24\Methods\24_AIR_1018.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Wed Sep 25 09:48:52 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
50) Dibromochloromethane	10.412	129	2274	0.032	ppbv#	92
51) 2-Hexanone(MBK)	10.286	43	1961	0.032	ppbv#	79
52) 1,2-Dibromoethane(EDB)	10.560	107	1659	0.030	ppbv	88
53) Tetrachloroethene	10.806	166	1887	0.036	ppbv	91
55) 1,1,1,2-Tetrachloroethane	11.162	131	1421	0.033	ppbv	94
56) Chlorobenzene	11.177	112	2422	0.034	ppbv#	1
57) Ethylbenzene	11.367	91	4456	0.044	ppbv	89
58) m,p-Xylene	11.458	91	7179	0.095	ppbv	98
59) Bromoform	11.541	173	2121	0.033	ppbv	94
60) Styrene	11.670	104	1695	0.029	ppbv	94
61) 1,1,2,2-Tetrachloroethane	11.731	83	2022	0.033	ppbv#	82
62) o-Xylene	11.731	91	4044	0.050	ppbv	97
65) Isopropylbenzene	12.049	105	5548	0.046	ppbv	95
67) 4-Ethyltoluene	12.463	105	8048	0.070	ppbv#	68
68) 1,3,5-Trimethylbenzene	12.463	105	8048	0.082	ppbv#	97
69) 1,2,4-Trimethylbenzene	12.711	105	2717	0.027	ppbv	99
71) Benzyl chloride	12.805	91	594	0.012	ppbv#	58
72) 1,3-Dichlorobenzene	12.828	146	1348	0.020	ppbv#	84
73) 1,4-Dichlorobenzene	12.867	146	1271	0.023	ppbv#	80
74) sec-Butylbenzene	12.875	105	4894	0.033	ppbv#	93
75) 4-Isopropyltoluene	12.960	119	10010	0.072	ppbv	96
76) 1,2-Dichlorobenzene	13.084	146	1549	0.024	ppbv	93
77) n-Butylbenzene	13.232	91	1967	0.020	ppbv#	87
79) Naphthalene	14.383	128	4631	0.090	ppbv#	88
80) Hexachlorobutadiene	14.639	225	2394	0.034	ppbv	98
82] 1,2-Dichlorotetrafluor...	4.388	85	2104m	0.035	ppbv	85
83] Vinyl Chloride(sim)	4.504	62	901m	0.032	ppbv	92
84] Bromomethane(sim)	4.861	94	924m	0.037	ppbv	62
85] Trichlorofluoromethane...	5.587	101	2300	0.033	ppbv#	99
86] 1,2-Dichloroethane(sim)	8.061	62	1361m	0.036	ppbv	72
87] 1,1,1-Trichloroethane(...	8.224	97	1876	0.033	ppbv#	99
88] Benzene(sim)	8.505	78	2845m	0.040	ppbv	85
89] Carbon Tetrachloride(sim)	8.600	117	2052	0.034	ppbv	99
90] 1,1-Dichloroethene(sim)	6.043	61	1588m	0.035	ppbv	73
91] Trichlorotrifluoroetha...	6.293	101	1834	0.033	ppbv#	98
92] Trans-1,2-Dichloroethe...	6.740	61	1578m	0.037	ppbv	74
93] 1,1-Dichloroethane(sim)	6.877	63	1767	0.033	ppbv	97
94] Cis-1,2-Dichloroethene...	7.405	61	1505m	0.037	ppbv	90
95] Chloroform(sim)	7.591	83	1758	0.033	ppbv#	92
97] 1,2-dichloropropane(sim)	8.981	63	1210	0.035	ppbv	95
98] Bromodichloromethane(sim)	9.093	83	1852m	0.034	ppbv	92
99] Trichloroethene(sim)	9.119	130	1309	0.033	ppbv	98
100] 1,4-Dioxane(sim)	9.128	88	546m	0.039	ppbv	81
101] cis-1,3-Dichloropropen...	9.599	75	1422	0.034	ppbv	98
102] 1,1,2-Trichloroethane(...	10.000	97	1137m	0.035	ppbv	93
103] Dibromochloromethane(sim)	10.415	129	2311	0.033	ppbv	98
104] 1,2-Dibromoethane(EDB)...	10.556	107	1893m	0.034	ppbv	88
105] Tetrachloroethene(sim)	10.802	166	2017	0.036	ppbv	99
107] Bromoform(sim)	11.544	173	2102	0.033	ppbv	100
108] m,p-Xylene(sim)	11.458	91	7179	0.078	ppbv	98
109] 1,1,2,2-Tetrachloroeth...	11.726	83	2072	0.031	ppbv	99
112] Benzyl chloride(sim)	12.807	91	868m	0.025	ppbv	58
113] 1,3-Dichlorobenzene(sim)	12.831	146	1664	0.028	ppbv	98
114] 1,4-Dichlorobenzene(sim)	12.870	146	1461m	0.030	ppbv	80
115] sec-Butylbenzene(sim)	12.877	105	5277	0.031	ppbv	99

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2024\CHEM24\10OCT\18A\
Data File : 1018_04.D
Acq On : 18 Oct 2024 4:24 pm
Operator : Keith
Client ID : ICAL 0.035
Lab ID : 0.035 (140cc -1) ; T01511
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 21 08:55:05 2024
Quant Method : H:\AIR2024\CHEM24\Methods\24_AIR_1018.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Wed Sep 25 09:48:52 2024
Response via : Initial Calibration

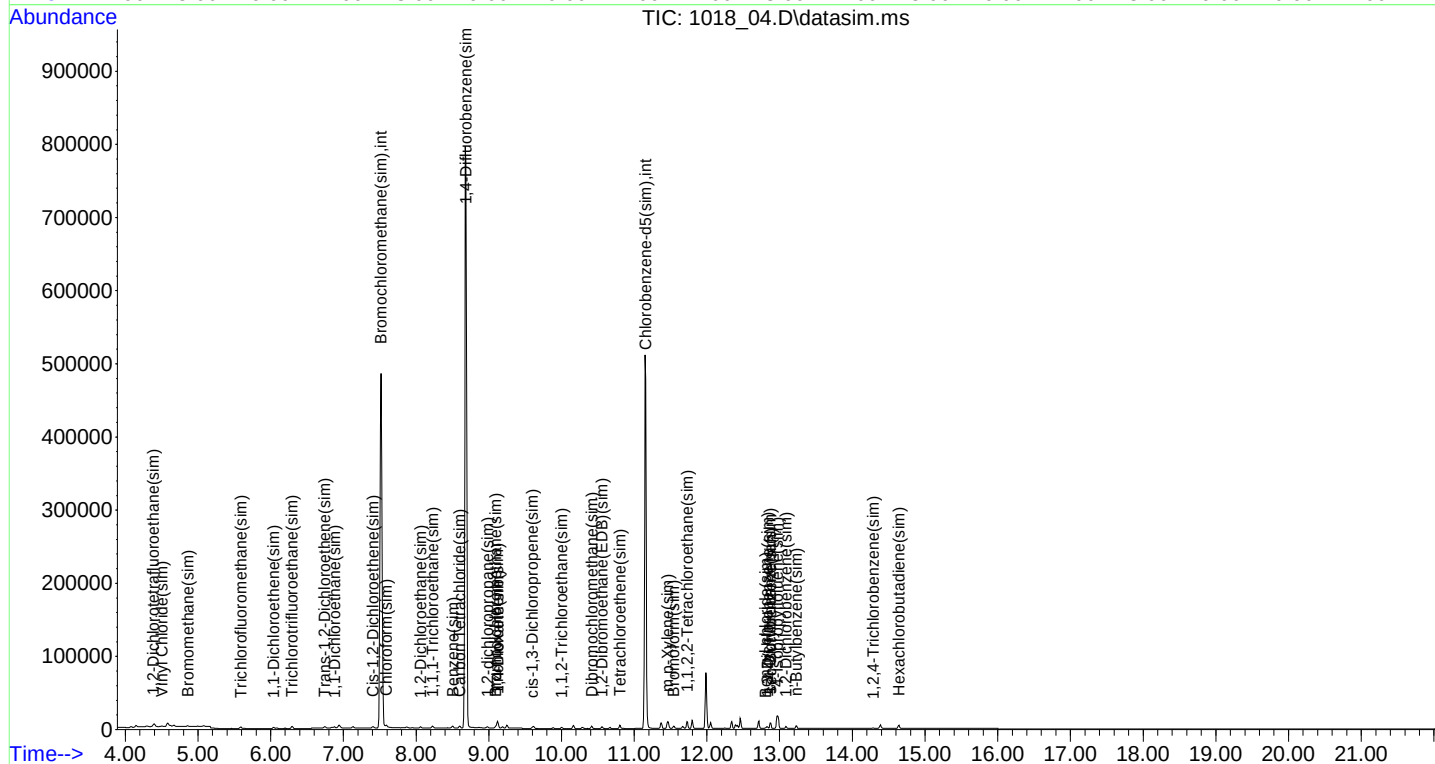
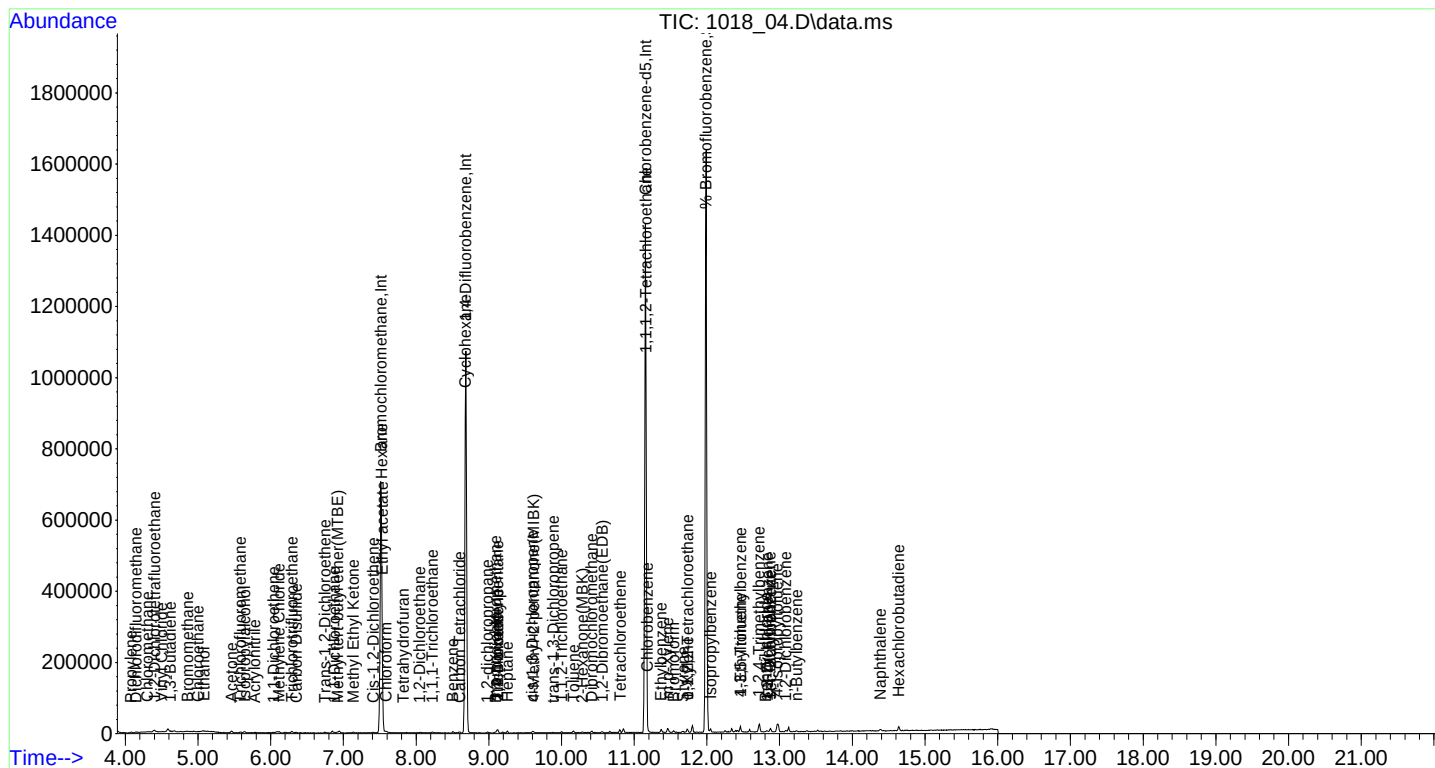
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
116]	4-Isopropyltoluene(sim)	12.960	119	10010	0.069	ppbv	96
117]	1,2-Dichlorobenzene(sim)	13.087	146	1786	0.027	ppbv	94
118]	n-Butylbenzene(sim)	13.227	91	2236m	0.027	ppbv	87
119]	1,2,4-Trichlorobenzene...	14.285	180	420	0.048	ppbv	96
120]	Hexachlorobutadiene(sim)	14.642	225	2485m	0.036	ppbv	53

(#)out of range (m>manual integration reviewed by analyst (+)signals summed

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2024\CHEM24\10OCT\18A\
Data File : 1018_04.D
Acq On : 18 Oct 2024 4:24 pm
Operator : Keith
Client ID : ICAL 0.035
Lab ID : 0.035 (140cc -1) ; T01511
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 21 08:55:05 2024
Quant Method : H:\AIR2024\CHEM24\Methods\24_AIR_1018.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Wed Sep 25 09:48:52 2024
Response via : Initial Calibration



Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2024\CHEM24\10OCT\18A\
 Data File : 1018_05.D
 Acq On : 18 Oct 2024 5:01 pm
 Operator : Keith
 Client ID : ICAL 0.05
 Lab ID : 0.05 ppb ; T01511
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 21 08:56:08 2024
 Quant Method : H:\AIR2024\CHEM24\Methods\24_AIR_1018.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Wed Sep 25 09:48:52 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	7.515	130	226967	10.000	ng	0.00
37) 1,4-Difluorobenzene	8.684	114	748587	10.000	ng	0.00
54) Chlorobenzene-d5	11.155	82	318839	10.000	ng	0.00
81) Bromochloromethane(sim)	7.518	130	229584	10.000	ng	# 0.00
96) 1,4-Difluorobenzene(sim)	8.684	114	748587	10.000	ng	0.00
106) Chlorobenzene-d5(sim)	11.155	82	318839	10.000	ng	0.00

System Monitoring Compounds						
63) % Bromofluorobenzene	11.989	95	413537	10.070	ppbv	0.00
Spiked Amount	10.000	Range 70 - 130	Recovery	= 100.70%		

Target Compounds				Qvalue		
2) Propylene	4.079	41	1803	0.076	ppbv	92
3) Dichlorodifluoromethane	4.153	85	2825	0.048	ppbv#	97
4) Chloromethane	4.303	50	2124	0.073	ppbv	91
5) 1,2-Dichlorotetrafluor...	4.394	85	2707	0.049	ppbv	94
6) Vinyl Chloride	4.502	62	1263	0.050	ppbv	66
7) 1,3-Butadiene	4.618	54	978	0.045	ppbv#	69
8) Bromomethane	4.850	94	1415	0.063	ppbv#	80
9) Chloroethane	4.991	64	331	0.033	ppbv#	39
11) Ethanol	5.074	45	1652	0.125	ppbv#	61
12) Acetone	5.468	43	6873	0.153	ppbv	95
13) Trichlorofluoromethane	5.584	101	2953	0.046	ppbv#	94
14) Isopropylalcohol	5.633	45	5650	0.101	ppbv#	86
15) Acrylonitrile	5.784	53	1081	0.048	ppbv#	80
16) 1,1-Dichloroethene	6.040	61	1958	0.047	ppbv	96
17) Methylene Chloride	6.112	49	2885	0.076	ppbv#	89
20) Carbon Disulfide	6.350	76	2768	0.046	ppbv#	76
21) Trichlorotrifluoroethane	6.290	101	2452	0.048	ppbv	97
22) Trans-1,2-Dichloroethene	6.745	61	1884	0.047	ppbv	96
23) 1,1-Dichloroethane	6.875	63	2147	0.046	ppbv	93
24) Methyl tert-butyl ethe...	6.923	73	2487	0.047	ppbv#	91
26) Methyl Ethyl Ketone	7.134	43	3933	0.066	ppbv#	81
27) Cis-1,2-Dichloroethene	7.410	61	1887	0.050	ppbv	95
28) Hexane	7.523	57	2309	0.056	ppbv#	98
29) Chloroform	7.588	83	2565	0.053	ppbv	92
30) Ethyl acetate	7.531	61	358	0.041	ppbv#	33
31) Tetrahydrofuran	7.815	42	122	0.004	ppbv#	47
32) 1,2-Dichloroethane	8.059	62	1662	0.047	ppbv	93
33) 1,1,1-Trichloroethane	8.221	97	2628	0.052	ppbv#	85
34) Benzene	8.511	78	3685	0.058	ppbv	96
35) Carbon Tetrachloride	8.597	117	2875	0.049	ppbv	97
36) Cyclohexane	8.684	84	2435	0.097	ppbv#	46
38) 1,2-dichloropropane	8.986	63	1456	0.045	ppbv#	81
39) Bromodichloromethane	9.090	83	2635	0.051	ppbv	93
40) Trichloroethene	9.116	130	2239	0.060	ppbv#	72
41) 2,2,4-trimethylpentane	9.125	57	6291	0.047	ppbv	96
42) 1,4-Dioxane	9.125	88	572	0.042	ppbv#	50
44) Heptane	9.246	43	2930	0.055	ppbv#	84
45) cis-1,3-Dichloropropene	9.596	75	1679	0.043	ppbv	97
46) 4-Methyl-2-pentanone(M...	9.617	43	3259	0.047	ppbv#	91
47) trans-1,3-Dichloropropene	9.884	75	1372	0.043	ppbv#	72
48) 1,1,2-Trichloroethane	10.004	97	1360	0.044	ppbv#	86
49) Toluene	10.166	91	4305	0.053	ppbv	96

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2024\CHEM24\10OCT\18A\
 Data File : 1018_05.D
 Acq On : 18 Oct 2024 5:01 pm
 Operator : Keith
 Client ID : ICAL 0.05
 Lab ID : 0.05 ppb ; T01511
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 21 08:56:08 2024
 Quant Method : H:\AIR2024\CHEM24\Methods\24_AIR_1018.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Wed Sep 25 09:48:52 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
50) Dibromochloromethane	10.412	129	2909	0.042	ppbv	86
51) 2-Hexanone(MBK)	10.293	43	2735	0.046	ppbv#	83
52) 1,2-Dibromoethane(EDB)	10.560	107	2455	0.046	ppbv	94
53) Tetrachloroethene	10.800	166	2708	0.054	ppbv	96
55) 1,1,1,2-Tetrachloroethane	11.170	131	2163	0.052	ppbv#	94
56) Chlorobenzene	11.177	112	3307	0.049	ppbv#	1
57) Ethylbenzene	11.367	91	6091	0.063	ppbv	92
58) m, p-Xylene	11.466	91	10358	0.142	ppbv	100
59) Bromoform	11.541	173	3071	0.049	ppbv	95
60) Styrene	11.670	104	2265	0.041	ppbv	97
61) 1,1,2,2-Tetrachloroethane	11.723	83	2797	0.047	ppbv#	75
62) o-Xylene	11.731	91	6006	0.077	ppbv	99
65) Isopropylbenzene	12.049	105	7816	0.068	ppbv	99
67) 4-Ethyltoluene	12.463	105	11933	0.108	ppbv#	74
68) 1,3,5-Trimethylbenzene	12.463	105	11933	0.126	ppbv	94
69) 1,2,4-Trimethylbenzene	12.711	105	3325	0.035	ppbv#	87
71) Benzyl chloride	12.812	91	1170	0.024	ppbv#	58
72) 1,3-Dichlorobenzene	12.828	146	2334	0.035	ppbv	88
73) 1,4-Dichlorobenzene	12.867	146	1560	0.029	ppbv	95
74) sec-Butylbenzene	12.875	105	6773	0.047	ppbv#	97
75) 4-Isopropyltoluene	12.960	119	14933	0.112	ppbv	98
76) 1,2-Dichlorobenzene	13.085	146	2020	0.032	ppbv	91
77) n-Butylbenzene	13.232	91	3263	0.035	ppbv	90
78) 1,2,4-Trichlorobenzene	14.282	180	382	0.021	ppbv#	36
79) Naphthalene	14.391	128	6025	0.122	ppbv#	95
80) Hexachlorobutadiene	14.639	225	2984	0.044	ppbv	96
82] 1,2-Dichlorotetrafluor...	4.388	85	3080m	0.053	ppbv	94
83] Vinyl Chloride(sim)	4.504	62	1360	0.050	ppbv	97
84] Bromomethane(sim)	4.853	94	1229m	0.051	ppbv	79
85] Trichlorofluoromethane...	5.587	101	3277	0.049	ppbv#	99
86] 1,2-Dichloroethane(sim)	8.062	62	1915m	0.052	ppbv	93
87] 1,1,1-Trichloroethane(...	8.224	97	2663	0.049	ppbv#	98
88] Benzene(sim)	8.505	78	4034m	0.058	ppbv	96
89] Carbon Tetrachloride(sim)	8.600	117	2847	0.048	ppbv	98
90] 1,1-Dichloroethene(sim)	6.043	61	2220m	0.051	ppbv	96
91] Trichlorotrifluoroetha...	6.293	101	2621	0.049	ppbv#	99
92] Trans-1,2-Dichloroethe...	6.748	61	2142m	0.051	ppbv	96
93] 1,1-Dichloroethane(sim)	6.878	63	2495	0.049	ppbv	99
94] Cis-1,2-Dichloroethene...	7.405	61	2026m	0.052	ppbv	95
95] Chloroform(sim)	7.591	83	2495	0.049	ppbv#	92
97] 1,2-dichloropropane(sim)	8.981	63	1704	0.050	ppbv	97
98] Bromodichloromethane(sim)	9.093	83	2808m	0.052	ppbv	90
99] Trichloroethene(sim)	9.119	130	1886	0.048	ppbv	99
100] 1,4-Dioxane(sim)	9.119	88	735m	0.054	ppbv	50
101] cis-1,3-Dichloropropen...	9.599	75	1953	0.048	ppbv	98
102] 1,1,2-Trichloroethane(...	10.000	97	1699m	0.053	ppbv	86
103] Dibromochloromethane(sim)	10.415	129	3264	0.048	ppbv	99
104] 1,2-Dibromoethane(EDB)...	10.556	107	2790m	0.051	ppbv	94
105] Tetrachloroethene(sim)	10.802	166	2853	0.053	ppbv	100
107] Bromoform(sim)	11.544	173	2979	0.049	ppbv	100
108] m, p-Xylene(sim)	11.466	91	10358	0.117	ppbv	100
109] 1,1,2,2-Tetrachloroeth...	11.726	83	2977	0.047	ppbv	99
112] Benzyl chloride(sim)	12.808	91	1326m	0.040	ppbv	58
113] 1,3-Dichlorobenzene(sim)	12.831	146	2429	0.042	ppbv	99
114] 1,4-Dichlorobenzene(sim)	12.870	146	2167m	0.047	ppbv	95

Data Path : H:\AIR2024\CHEM24\10OCT\18A\
Data File : 1018_05.D
Acq On : 18 Oct 2024 5:01 pm
Operator : Keith
Client ID : ICAL 0.05
Lab ID : 0.05 ppb ; T01511
ALS Vial : 6 Sample Multiplier: 1

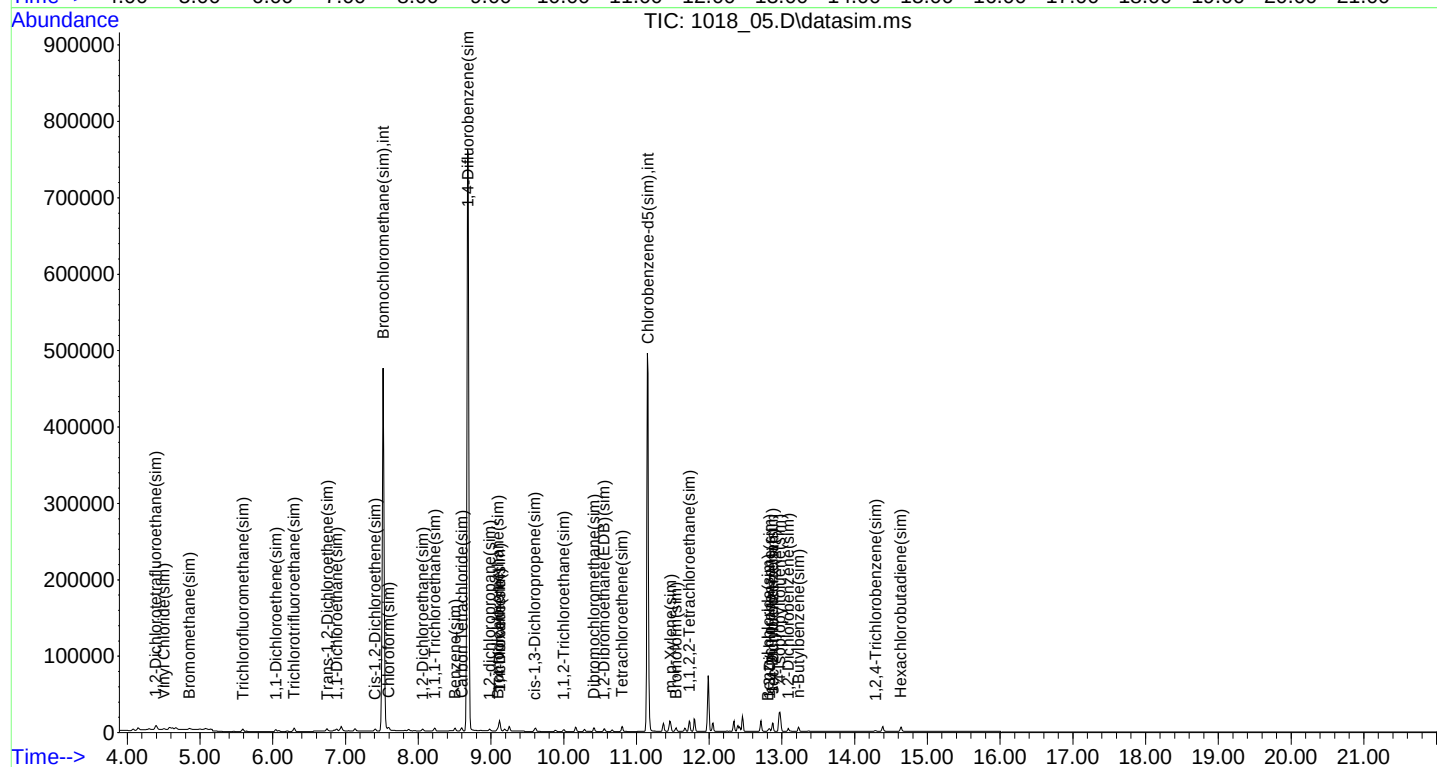
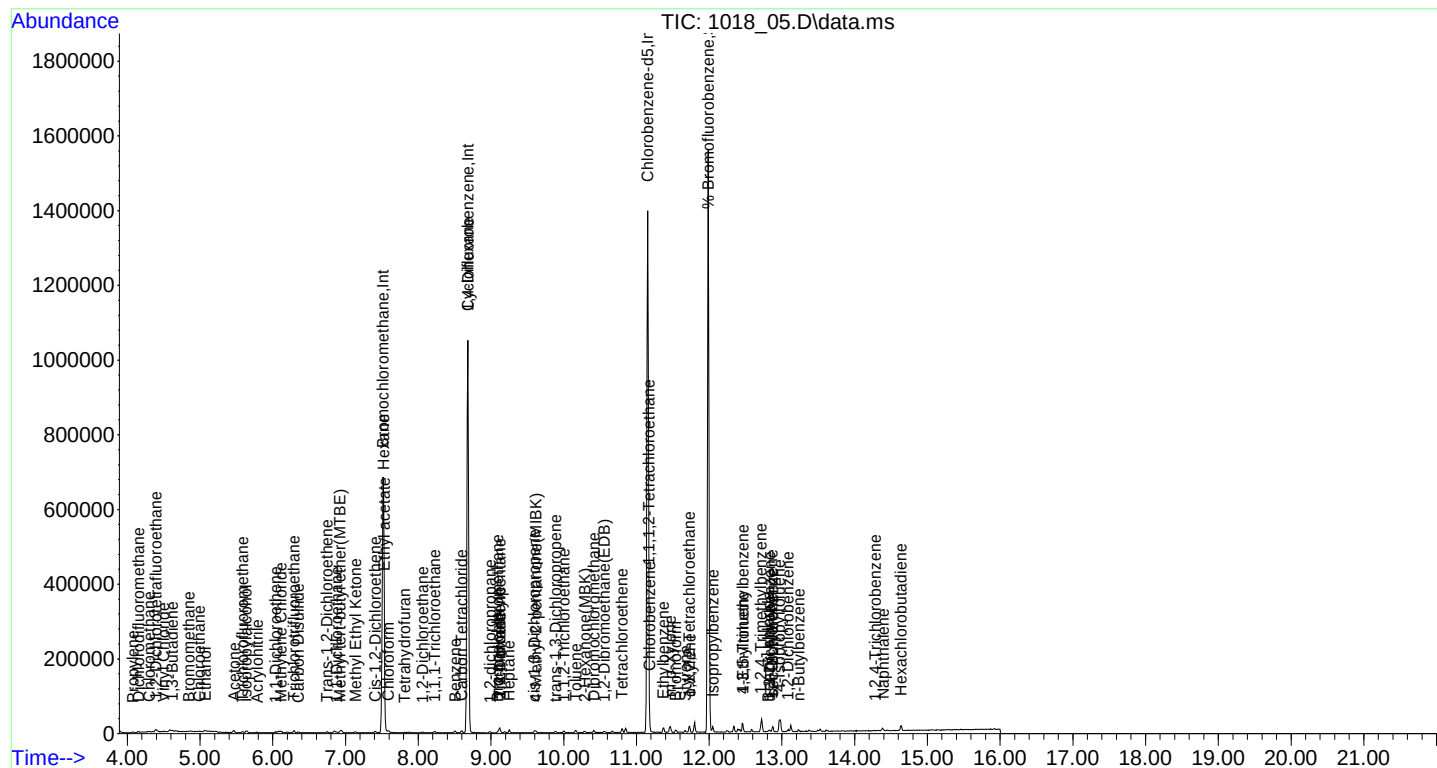
Quant Time: Oct 21 08:56:08 2024
Quant Method : H:\AIR2024\CHEM24\Methods\24_AIR_1018.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Wed Sep 25 09:48:52 2024
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
115]	sec-Butylbenzene(sim)	12.878	105	7430	0.046	ppbv	99
116]	4-Isopropyltoluene(sim)	12.960	119	14933	0.107	ppbv	98
117]	1,2-Dichlorobenzene(sim)	13.087	146	2578	0.041	ppbv	98
118]	n-Butylbenzene(sim)	13.227	91	3294m	0.041	ppbv	90
119]	1,2,4-Trichlorobenzene...	14.285	180	608	0.070	ppbv	97
120]	Hexachlorobutadiene(sim)	14.635	225	3375m	0.050	ppbv	85

(#)out of range (m>manual integration reviewed by analyst (+)signals summed

Data Path : H:\AIR2024\CHEM24\10OCT\18A\
Data File : 1018_05.D
Acq On : 18 Oct 2024 5:01 pm
Operator : Keith
Client ID : ICAL 0.05
Lab ID : 0.05 ppb ; T01511
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 21 08:56:08 2024
Quant Method : H:\AIR2024\CHEM24\Methods\24_AIR_1018.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Wed Sep 25 09:48:52 2024
Response via : Initial Calibration



Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2024\CHEM24\10OCT\18A\
 Data File : 1018_06.D
 Acq On : 18 Oct 2024 5:37 pm
 Operator : Keith
 Client ID : ICAL 0.1
 Lab ID : 0.10 ppb ; T01511
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 21 08:56:27 2024
 Quant Method : H:\AIR2024\CHEM24\Methods\24_AIR_1018.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Wed Sep 25 09:48:52 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	7.515	130	231457	10.000	ng	0.00
37) 1,4-Difluorobenzene	8.683	114	749444	10.000	ng	0.00
54) Chlorobenzene-d5	11.155	82	322344	10.000	ng	0.00
81) Bromochloromethane(sim)	7.518	130	230716	10.000	ng	# 0.00
96) 1,4-Difluorobenzene(sim)	8.683	114	749444	10.000	ng	0.00
106) Chlorobenzene-d5(sim)	11.155	82	322344	10.000	ng	0.00
System Monitoring Compounds						
63) % Bromofluorobenzene	11.989	95	390090	9.396	ppbv	0.00
Spiked Amount	10.000	Range 70 - 130	Recovery	=	94.00%	
Target Compounds						
					Qvalue	
2) Propylene	4.079	41	3156	0.130	ppbv	91
3) Dichlorodifluoromethane	4.145	85	6220	0.104	ppbv	95
4) Chloromethane	4.302	50	3689	0.125	ppbv	96
5) 1,2-Dichlorotetrafluor...	4.394	85	6611	0.117	ppbv	92
6) Vinyl Chloride	4.501	62	2881	0.112	ppbv	97
7) 1,3-Butadiene	4.626	54	2526	0.114	ppbv#	81
8) Bromomethane	4.858	94	2752	0.121	ppbv#	94
9) Chloroethane	4.991	64	1090	0.108	ppbv	84
11) Ethanol	5.082	45	2222	0.165	ppbv#	56
12) Acetone	5.468	43	6778	0.148	ppbv	97
13) Trichlorofluoromethane	5.584	101	7241	0.110	ppbv#	97
14) Isopropylalcohol	5.639	45	6790	0.119	ppbv#	82
15) Acrylonitrile	5.778	53	2366	0.103	ppbv	92
16) 1,1-Dichloroethene	6.040	61	4724	0.111	ppbv#	92
17) Methylene Chloride	6.118	49	5125	0.133	ppbv#	91
20) Carbon Disulfide	6.350	76	7288	0.118	ppbv#	91
21) Trichlorotrifluoroethane	6.290	101	5661	0.109	ppbv	95
22) Trans-1,2-Dichloroethene	6.745	61	4284	0.105	ppbv	97
23) 1,1-Dichloroethane	6.874	63	5196	0.109	ppbv	90
24) Methyl tert-butyl ethe...	6.923	73	6026	0.112	ppbv	92
26) Methyl Ethyl Ketone	7.126	43	7069	0.116	ppbv#	81
27) Cis-1,2-Dichloroethene	7.410	61	4087	0.106	ppbv	97
28) Hexane	7.531	57	4369	0.103	ppbv#	84
29) Chloroform	7.588	83	5187	0.106	ppbv	94
30) Ethyl acetate	7.523	61	729	0.081	ppbv#	82
31) Tetrahydrofuran	7.864	42	3408	0.118	ppbv#	86
32) 1,2-Dichloroethane	8.058	62	3950	0.110	ppbv	95
33) 1,1,1-Trichloroethane	8.229	97	5753	0.111	ppbv	98
34) Benzene	8.510	78	7129	0.109	ppbv	98
35) Carbon Tetrachloride	8.597	117	7009	0.118	ppbv	94
36) Cyclohexane	8.675	84	3943	0.154	ppbv#	61
38) 1,2-dichloropropane	8.986	63	3630	0.113	ppbv	97
39) Bromodichloromethane	9.090	83	5924	0.113	ppbv	97
40) Trichloroethene	9.116	130	4093	0.109	ppbv	96
41) 2,2,4-trimethylpentane	9.125	57	14986	0.111	ppbv	97
42) 1,4-Dioxane	9.116	88	1328	0.098	ppbv	88
44) Heptane	9.254	43	5717	0.107	ppbv#	95
45) cis-1,3-Dichloropropene	9.596	75	4398	0.113	ppbv	92
46) 4-Methyl-2-pentanone(M...	9.610	43	7233	0.105	ppbv#	96
47) trans-1,3-Dichloropropene	9.884	75	3246	0.102	ppbv	94
48) 1,1,2-Trichloroethane	10.004	97	3540	0.114	ppbv	96
49) Toluene	10.166	91	8798	0.107	ppbv	91

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2024\CHEM24\10OCT\18A\
 Data File : 1018_06.D
 Acq On : 18 Oct 2024 5:37 pm
 Operator : Keith
 Client ID : ICAL 0.1
 Lab ID : 0.10 ppb ; T01511
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 21 08:56:27 2024
 Quant Method : H:\AIR2024\CHEM24\Methods\24_AIR_1018.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Wed Sep 25 09:48:52 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
50) Dibromochloromethane	10.412	129	7285	0.106	ppbv	99
51) 2-Hexanone(MBK)	10.286	43	5223	0.089	ppbv#	95
52) 1,2-Dibromoethane(EDB)	10.560	107	6032	0.112	ppbv	97
53) Tetrachloroethene	10.799	166	5839	0.115	ppbv	93
55) 1,1,1,2-Tetrachloroethane	11.162	131	4852	0.116	ppbv	95
56) Chlorobenzene	11.177	112	7668	0.112	ppbv#	43
57) Ethylbenzene	11.367	91	10387	0.106	ppbv	97
58) m, p-Xylene	11.465	91	16066	0.218	ppbv	98
59) Bromoform	11.541	173	6379	0.101	ppbv	95
60) Styrene	11.670	104	5055	0.090	ppbv	98
61) 1,1,2,2-Tetrachloroethane	11.723	83	6652	0.111	ppbv	93
62) o-Xylene	11.731	91	8372	0.106	ppbv	96
65) Isopropylbenzene	12.049	105	13151	0.113	ppbv	99
67) 4-Ethyltoluene	12.424	105	10658	0.096	ppbv	97
68) 1,3,5-Trimethylbenzene	12.462	105	9826	0.102	ppbv	98
69) 1,2,4-Trimethylbenzene	12.711	105	9013	0.093	ppbv	95
71) Benzyl chloride	12.812	91	2744	0.057	ppbv#	87
72) 1,3-Dichlorobenzene	12.828	146	5324	0.080	ppbv	96
73) 1,4-Dichlorobenzene	12.867	146	3819	0.070	ppbv	99
74) sec-Butylbenzene	12.874	105	15901	0.110	ppbv	99
75) 4-Isopropyltoluene	12.960	119	14274	0.106	ppbv	98
76) 1,2-Dichlorobenzene	13.084	146	5360	0.085	ppbv	98
77) n-Butylbenzene	13.232	91	7891	0.084	ppbv	98
78) 1,2,4-Trichlorobenzene	14.282	180	1050	0.057	ppbv#	90
79) Naphthalene	14.383	128	5245	0.105	ppbv#	95
80) Hexachlorobutadiene	14.639	225	6709	0.098	ppbv	95
82] 1,2-Dichlorotetrafluor...	4.394	85	6611	0.113	ppbv	92
83] Vinyl Chloride(sim)	4.504	62	3041	0.112	ppbv	99
84] Bromomethane(sim)	4.861	94	2771m	0.113	ppbv	94
85] Trichlorofluoromethane...	5.587	101	7543	0.112	ppbv#	100
86] 1,2-Dichloroethane(sim)	8.058	62	3950	0.108	ppbv	95
87] 1,1,1-Trichloroethane(...	8.224	97	6172	0.112	ppbv#	98
88] Benzene(sim)	8.510	78	7129	0.102	ppbv	98
89] Carbon Tetrachloride(sim)	8.600	117	6682	0.112	ppbv	100
90] 1,1-Dichloroethene(sim)	6.040	61	4724	0.108	ppbv#	92
91] Trichlorotrifluoroetha...	6.293	101	6095	0.113	ppbv#	99
92] Trans-1,2-Dichloroethe...	6.745	61	4284	0.102	ppbv	97
93] 1,1-Dichloroethane(sim)	6.877	63	5756	0.112	ppbv	100
94] Cis-1,2-Dichloroethene...	7.410	61	4087	0.104	ppbv	97
95] Chloroform(sim)	7.591	83	5739	0.112	ppbv	97
97] 1,2-dichloropropane(sim)	8.980	63	3854	0.113	ppbv	97
98] Bromodichloromethane(sim)	9.090	83	5924	0.110	ppbv	95
99] Trichloroethene(sim)	9.119	130	4395	0.113	ppbv	99
100] 1,4-Dioxane(sim)	9.119	88	1558m	0.113	ppbv	88
101] cis-1,3-Dichloropropen...	9.599	75	4532	0.110	ppbv	98
102] 1,1,2-Trichloroethane(...	10.004	97	3540	0.111	ppbv	96
103] Dibromochloromethane(sim)	10.415	129	7566	0.112	ppbv	100
104] 1,2-Dibromoethane(EDB)...	10.560	107	6032	0.110	ppbv	97
105] Tetrachloroethene(sim)	10.802	166	5840	0.108	ppbv	99
107] Bromoform(sim)	11.544	173	6534	0.106	ppbv	100
108] m, p-Xylene(sim)	11.465	91	16066	0.179	ppbv	98
109] 1,1,2,2-Tetrachloroeth...	11.726	83	6920	0.108	ppbv	99
112] Benzyl chloride(sim)	12.812	91	2744	0.082	ppbv	87
113] 1,3-Dichlorobenzene(sim)	12.831	146	5467	0.093	ppbv	98
114] 1,4-Dichlorobenzene(sim)	12.867	146	3819	0.082	ppbv	99

Data Path : H:\AIR2024\CHEM24\10OCT\18A\
Data File : 1018_06.D
Acq On : 18 Oct 2024 5:37 pm
Operator : Keith
Client ID : ICAL 0.1
Lab ID : 0.10 ppb ; T01511
ALS Vial : 7 Sample Multiplier: 1

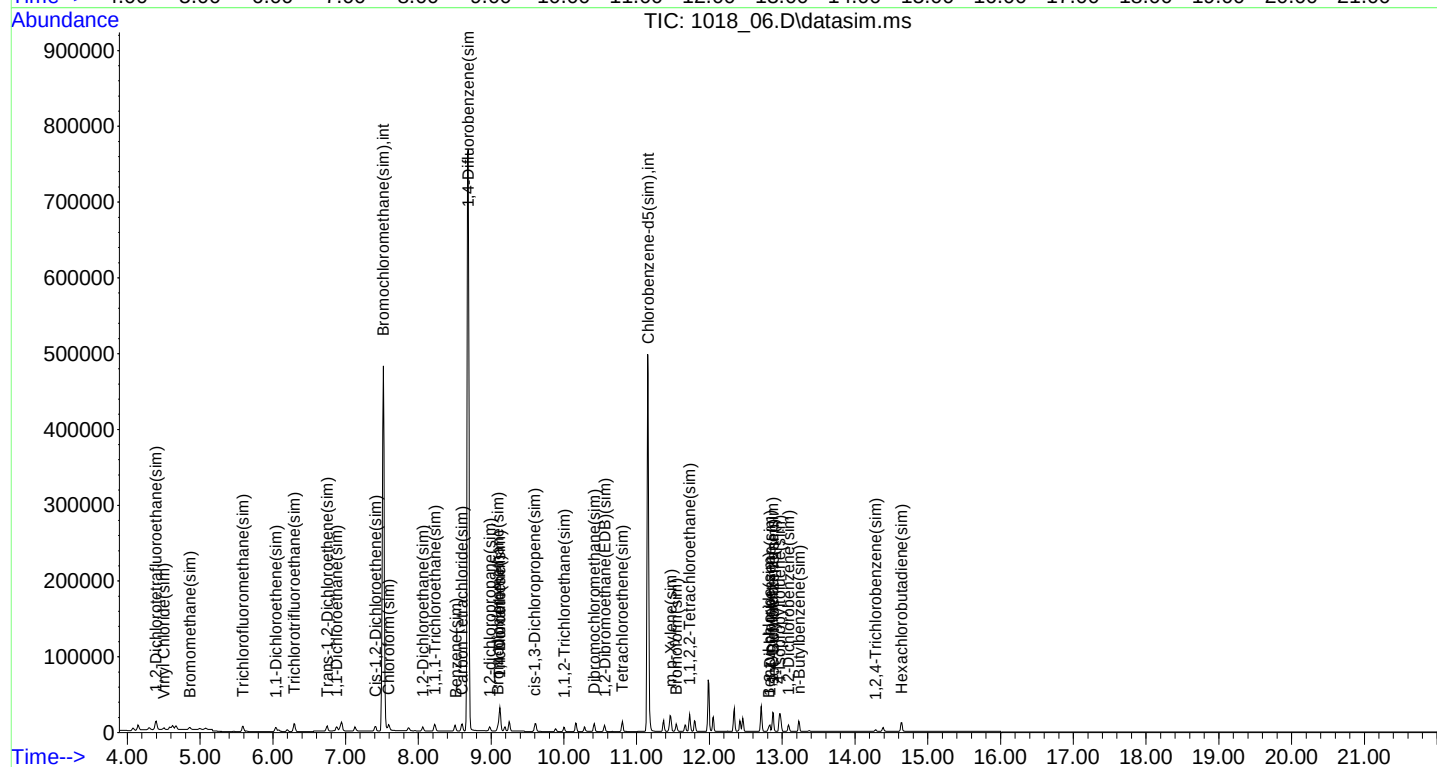
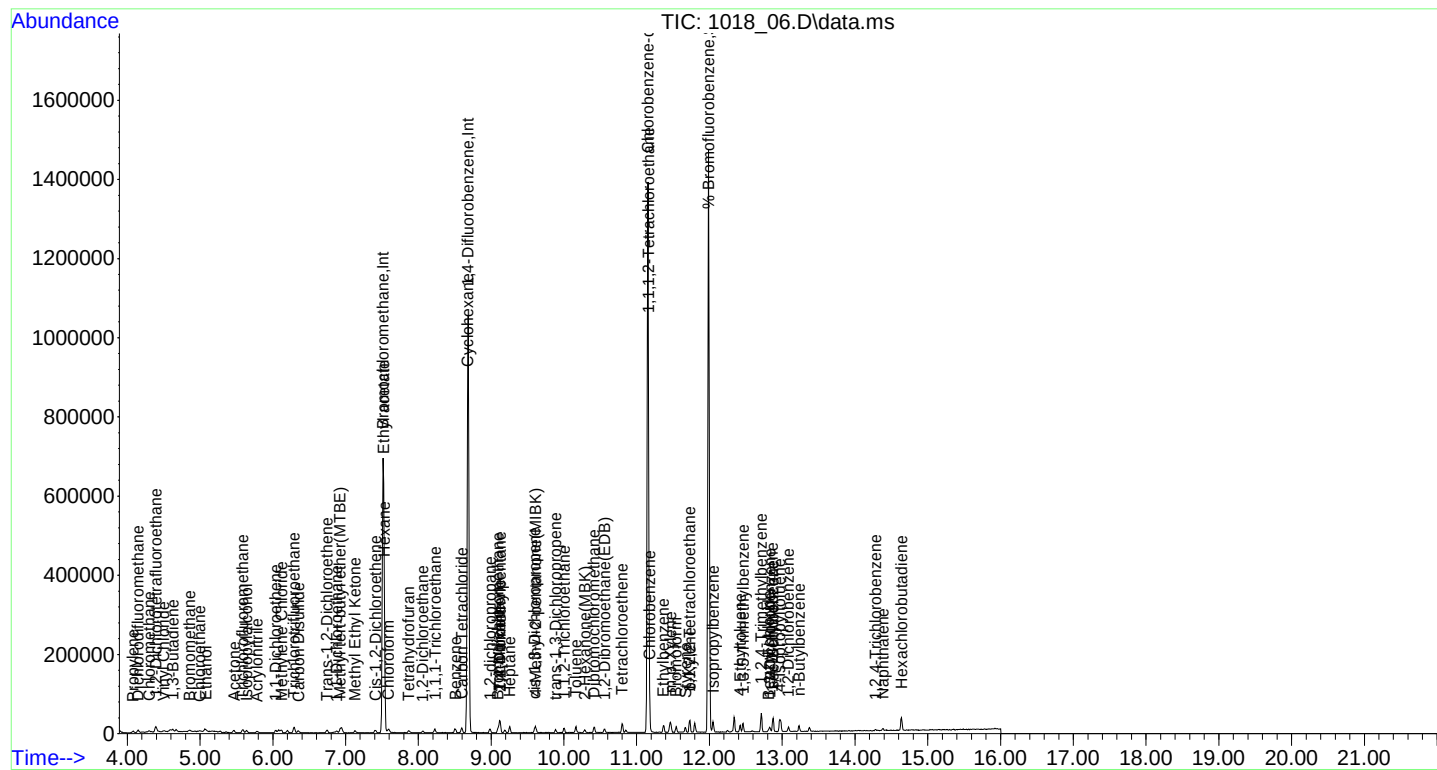
Quant Time: Oct 21 08:56:27 2024
Quant Method : H:\AIR2024\CHEM24\Methods\24_AIR_1018.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Wed Sep 25 09:48:52 2024
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
115]	sec-Butylbenzene(sim)	12.877	105	17355	0.106	ppbv	100
116]	4-Isopropyltoluene(sim)	12.960	119	14274	0.101	ppbv	98
117]	1,2-Dichlorobenzene(sim)	13.087	146	6014	0.094	ppbv	99
118]	n-Butylbenzene(sim)	13.232	91	7891	0.098	ppbv	98
119]	1,2,4-Trichlorobenzene...	14.285	180	1402	0.144	ppbv	98
120]	Hexachlorobutadiene(sim)	14.639	225	6558	0.097	ppbv	95

(#)out of range (m>manual integration reviewed by analyst (+)signals summed

Data Path : H:\AIR2024\CHEM24\10OCT\18A\
Data File : 1018_06.D
Acq On : 18 Oct 2024 5:37 pm
Operator : Keith
Client ID : ICAL 0.1
Lab ID : 0.10 ppb ; T01511
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 21 08:56:27 2024
Quant Method : H:\AIR2024\CHEM24\Methods\24_AIR_1018.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Wed Sep 25 09:48:52 2024
Response via : Initial Calibration



Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2024\CHEM24\10OCT\18A\
 Data File : 1018_07.D
 Acq On : 18 Oct 2024 6:11 pm
 Operator : Keith
 Client ID : ICAL 0.2
 Lab ID : 0.20 ppb ; T01511
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Oct 21 08:50:21 2024
 Quant Method : H:\AIR2024\CHEM24\Methods\24_AIR_1018.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Wed Sep 25 09:48:52 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	7.515	130	225702	10.000	ng	0.00
37) 1,4-Difluorobenzene	8.684	114	728807	10.000	ng	0.00
54) Chlorobenzene-d5	11.155	82	309862	10.000	ng	0.00
81) Bromochloromethane(sim)	7.518	130	225450	10.000	ng	# 0.00
96) 1,4-Difluorobenzene(sim)	8.684	114	728807	10.000	ng	0.00
106) Chlorobenzene-d5(sim)	11.155	82	309862	10.000	ng	0.00

System Monitoring Compounds

63) % Bromofluorobenzene	11.989	95	402599	10.088	ppbv	0.00
Spiked Amount	10.000	Range 70 - 130	Recovery	=	100.90%	

Target Compounds

						Qvalue
2) Propylene	4.078	41	5541	0.234	ppbv	98
3) Dichlorodifluoromethane	4.145	85	12338	0.211	ppbv	96
4) Chloromethane	4.302	50	6471	0.225	ppbv	97
5) 1,2-Dichlorotetrafluor...	4.394	85	11885	0.215	ppbv	99
6) Vinyl Chloride	4.501	62	5190	0.207	ppbv	97
7) 1,3-Butadiene	4.626	54	4588	0.211	ppbv#	91
8) Bromomethane	4.850	94	4818	0.217	ppbv#	95
9) Chloroethane	4.999	64	2087	0.211	ppbv	90
11) Ethanol	5.082	45	3716	0.283	ppbv#	62
12) Acetone	5.461	43	10832	0.243	ppbv	99
13) Trichlorofluoromethane	5.584	101	13410	0.208	ppbv	99
14) Isopropylalcohol	5.639	45	11495	0.207	ppbv#	85
15) Acrylonitrile	5.784	53	4864	0.218	ppbv	97
16) 1,1-Dichloroethene	6.040	61	8595	0.207	ppbv	97
17) Methylene Chloride	6.112	49	9043	0.240	ppbv	92
20) Carbon Disulfide	6.350	76	12938	0.214	ppbv	100
21) Trichlorotrifluoroethane	6.290	101	10981	0.218	ppbv	98
22) Trans-1,2-Dichloroethene	6.745	61	8592	0.216	ppbv	99
23) 1,1-Dichloroethane	6.875	63	10196	0.218	ppbv	96
24) Methyl tert-butyl ethe...	6.923	73	11407	0.217	ppbv	93
26) Methyl Ethyl Ketone	7.126	43	13007	0.218	ppbv#	94
27) Cis-1,2-Dichloroethene	7.410	61	7934	0.212	ppbv	97
28) Hexane	7.531	57	8435	0.205	ppbv	93
29) Chloroform	7.596	83	10259	0.214	ppbv	96
30) Ethyl acetate	7.523	61	1685	0.192	ppbv#	90
31) Tetrahydrofuran	7.864	42	5812	0.206	ppbv	95
32) 1,2-Dichloroethane	8.059	62	7384	0.211	ppbv	93
33) 1,1,1-Trichloroethane	8.221	97	10452	0.207	ppbv	94
34) Benzene	8.502	78	13360	0.210	ppbv	98
35) Carbon Tetrachloride	8.597	117	12259	0.211	ppbv	96
36) Cyclohexane	8.675	84	6303	0.252	ppbv#	84
38) 1,2-dichloropropane	8.986	63	6817	0.218	ppbv	96
39) Bromodichloromethane	9.090	83	10972	0.216	ppbv	98
40) Trichloroethene	9.116	130	7857	0.215	ppbv	98
41) 2,2,4-trimethylpentane	9.125	57	27481	0.210	ppbv	97
42) 1,4-Dioxane	9.116	88	2412	0.183	ppbv#	79
44) Heptane	9.255	43	10734	0.206	ppbv#	96
45) cis-1,3-Dichloropropene	9.596	75	7844	0.207	ppbv	97
46) 4-Methyl-2-pentanone(M...	9.610	43	13884	0.208	ppbv#	94
47) trans-1,3-Dichloropropene	9.884	75	6445	0.209	ppbv	96
48) 1,1,2-Trichloroethane	10.004	97	6613	0.219	ppbv	98
49) Toluene	10.166	91	16384	0.206	ppbv	99

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2024\CHEM24\10OCT\18A\
 Data File : 1018_07.D
 Acq On : 18 Oct 2024 6:11 pm
 Operator : Keith
 Client ID : ICAL 0.2
 Lab ID : 0.20 ppb ; T01511
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Oct 21 08:50:21 2024
 Quant Method : H:\AIR2024\CHEM24\Methods\24_AIR_1018.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Wed Sep 25 09:48:52 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
50) Dibromochloromethane	10.412	129	14242	0.213	ppbv	95
51) 2-Hexanone(MBK)	10.286	43	10201	0.178	ppbv#	87
52) 1,2-Dibromoethane(EDB)	10.560	107	11059	0.211	ppbv	100
53) Tetrachloroethene	10.799	166	10720	0.218	ppbv	97
55) 1,1,1,2-Tetrachloroethane	11.162	131	9302	0.231	ppbv	98
56) Chlorobenzene	11.177	112	14656	0.222	ppbv#	70
57) Ethylbenzene	11.367	91	20912	0.222	ppbv	100
58) m, p-Xylene	11.466	91	31214	0.440	ppbv	98
59) Bromoform	11.541	173	13796	0.228	ppbv	96
60) Styrene	11.670	104	11257	0.208	ppbv	96
61) 1,1,2,2-Tetrachloroethane	11.723	83	12576	0.219	ppbv	96
62) o-Xylene	11.731	91	16870	0.223	ppbv	99
65) Isopropylbenzene	12.049	105	25581	0.229	ppbv	98
67) 4-Ethyltoluene	12.424	105	20349	0.190	ppbv	96
68) 1,3,5-Trimethylbenzene	12.463	105	19476	0.211	ppbv	94
69) 1,2,4-Trimethylbenzene	12.711	105	18047	0.194	ppbv	99
71) Benzyl chloride	12.812	91	5042	0.108	ppbv	97
72) 1,3-Dichlorobenzene	12.828	146	11155	0.174	ppbv	97
73) 1,4-Dichlorobenzene	12.867	146	8087	0.154	ppbv	94
74) sec-Butylbenzene	12.875	105	30151	0.217	ppbv	99
75) 4-Isopropyltoluene	12.960	119	27045	0.208	ppbv	99
76) 1,2-Dichlorobenzene	13.085	146	10215	0.168	ppbv	97
77) n-Butylbenzene	13.232	91	14842	0.164	ppbv	98
78) 1,2,4-Trichlorobenzene	14.282	180	2230	0.125	ppbv#	96
79) Naphthalene	14.383	128	7602	0.158	ppbv#	96
80) Hexachlorobutadiene	14.639	225	12975	0.196	ppbv	97
82] 1,2-Dichlorotetrafluor...	4.394	85	11885	0.208	ppbv	99
83] Vinyl Chloride(sim)	4.504	62	5597	0.210	ppbv	99
84] Bromomethane(sim)	4.850	94	4818	0.202	ppbv#	94
85] Trichlorofluoromethane...	5.587	101	14194	0.215	ppbv#	99
86] 1,2-Dichloroethane(sim)	8.059	62	7384	0.206	ppbv	93
87] 1,1,1-Trichloroethane(...	8.224	97	11557	0.214	ppbv#	99
88] Benzene(sim)	8.502	78	13360	0.195	ppbv	98
89] Carbon Tetrachloride(sim)	8.600	117	12481	0.215	ppbv	100
90] 1,1-Dichloroethene(sim)	6.040	61	8595	0.201	ppbv	97
91] Trichlorotrifluoroetha...	6.293	101	11350	0.215	ppbv#	99
92] Trans-1,2-Dichloroethe...	6.745	61	8592	0.210	ppbv	99
93] 1,1-Dichloroethane(sim)	6.877	63	10683	0.212	ppbv	100
94] Cis-1,2-Dichloroethene...	7.410	61	7934	0.207	ppbv	97
95] Chloroform(sim)	7.591	83	10769	0.214	ppbv	98
97] 1,2-dichloropropane(sim)	8.981	63	7166	0.216	ppbv	97
98] Bromodichloromethane(sim)	9.090	83	10972	0.210	ppbv	97
99] Trichloroethene(sim)	9.119	130	8131	0.215	ppbv	99
100] 1,4-Dioxane(sim)	9.116	88	2412	0.181	ppbv#	79
101] cis-1,3-Dichloropropen...	9.599	75	8674	0.217	ppbv	99
102] 1,1,2-Trichloroethane(...	10.004	97	6613	0.213	ppbv	98
103] Dibromochloromethane(sim)	10.415	129	14264	0.216	ppbv	99
104] 1,2-Dibromoethane(EDB)...	10.560	107	11059	0.208	ppbv	99
105] Tetrachloroethene(sim)	10.802	166	10896	0.207	ppbv	99
107] Bromoform(sim)	11.544	173	12917	0.218	ppbv	100
108] m, p-Xylene(sim)	11.466	91	31214	0.362	ppbv	98
109] 1,1,2,2-Tetrachloroeth...	11.726	83	13024	0.211	ppbv	99
112] Benzyl chloride(sim)	12.812	91	5042	0.154	ppbv	97
113] 1,3-Dichlorobenzene(sim)	12.831	146	11431	0.203	ppbv	99
114] 1,4-Dichlorobenzene(sim)	12.867	146	8087	0.181	ppbv	94

Data Path : H:\AIR2024\CHEM24\10OCT\18A\
Data File : 1018_07.D
Acq On : 18 Oct 2024 6:11 pm
Operator : Keith
Client ID : ICAL 0.2
Lab ID : 0.20 ppb ; T01511
ALS Vial : 8 Sample Multiplier: 1

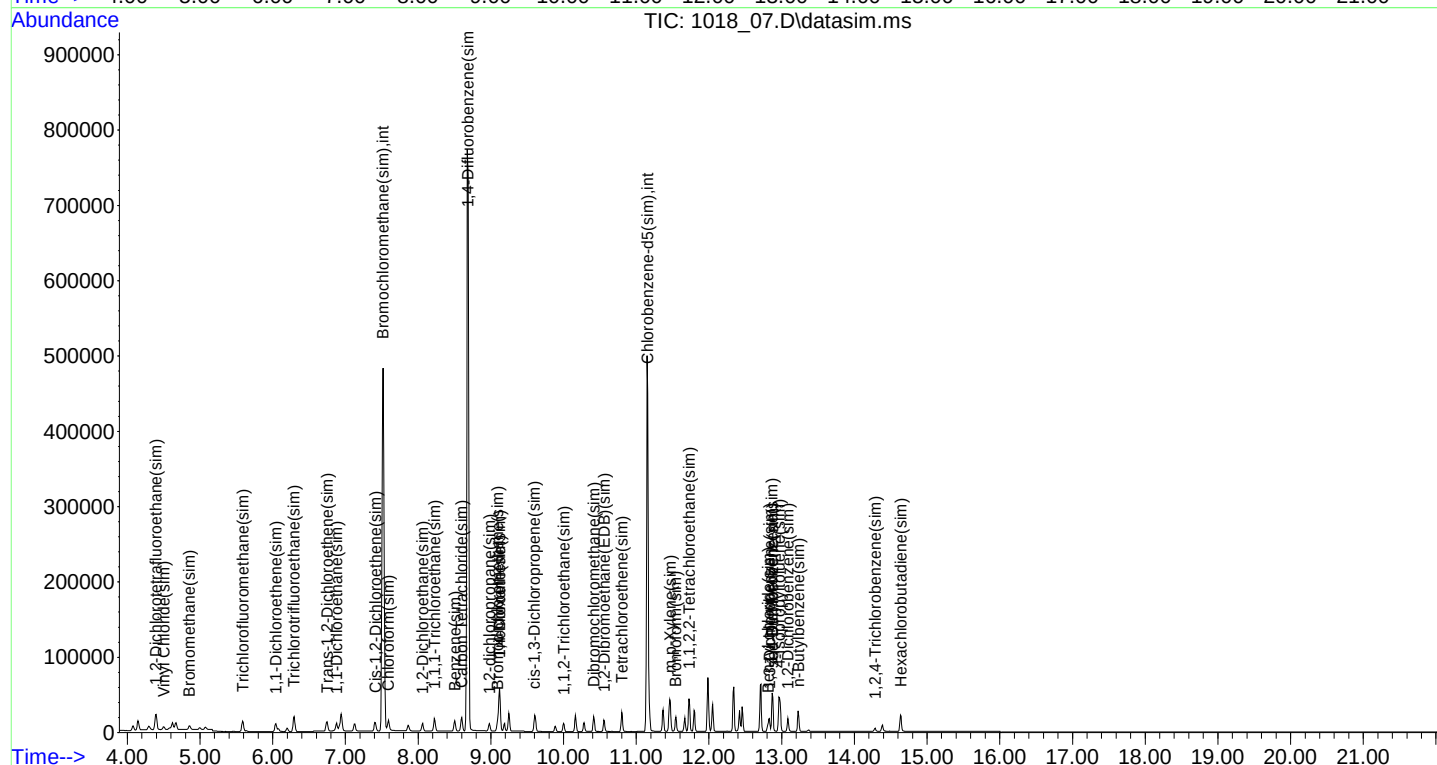
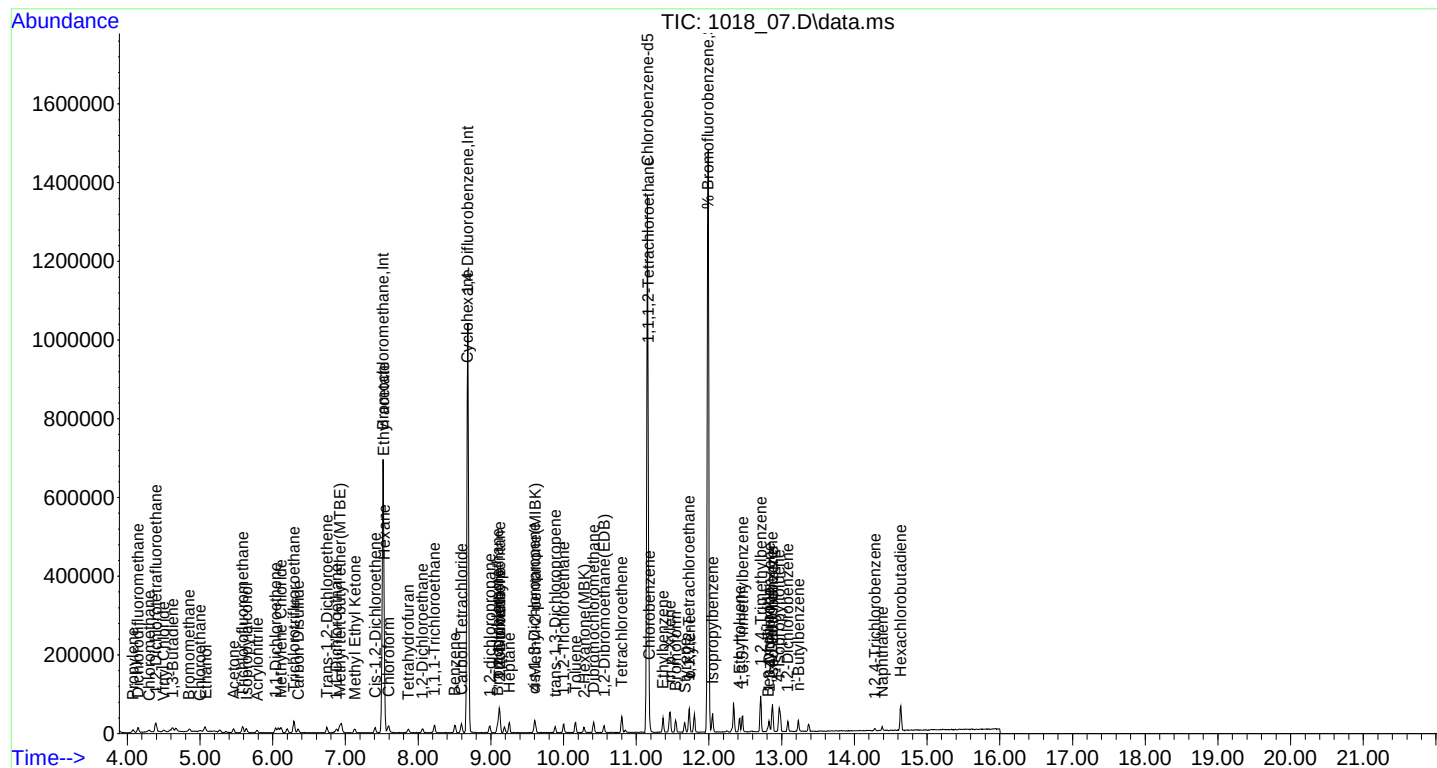
Quant Time: Oct 21 08:50:21 2024
Quant Method : H:\AIR2024\CHEM24\Methods\24_AIR_1018.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Wed Sep 25 09:48:52 2024
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
115]	sec-Butylbenzene(sim)	12.878	105	33326	0.212	ppbv	100
116]	4-Isopropyltoluene(sim)	12.960	119	27045	0.199	ppbv	99
117]	1,2-Dichlorobenzene(sim)	13.087	146	11589	0.189	ppbv	100
118]	n-Butylbenzene(sim)	13.232	91	14842	0.191	ppbv	98
119]	1,2,4-Trichlorobenzene...	14.285	180	2760	0.256	ppbv	100
120]	Hexachlorobutadiene(sim)	14.639	225	12739	0.195	ppbv	95

(#)out of range (m>manual integration reviewed by analyst (+)signals summed

Data Path : H:\AIR2024\CHEM24\10OCT\18A\
Data File : 1018_07.D
Acq On : 18 Oct 2024 6:11 pm
Operator : Keith
Client ID : ICAL 0.2
Lab ID : 0.20 ppb ; T01511
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Oct 21 08:50:21 2024
Quant Method : H:\AIR2024\CHEM24\Methods\24_AIR_1018.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Wed Sep 25 09:48:52 2024
Response via : Initial Calibration



Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2024\CHEM24\10OCT\18A\
 Data File : 1018_08.D
 Acq On : 18 Oct 2024 6:48 pm
 Operator : Keith
 Client ID : ICAL 0.5
 Lab ID : 0.50 ppb ; T01511
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 21 08:50:29 2024
 Quant Method : H:\AIR2024\CHEM24\Methods\24_AIR_1018.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Wed Sep 25 09:48:52 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	7.515	130	228328	10.000	ng	0.00
37) 1,4-Difluorobenzene	8.684	114	747681	10.000	ng	0.00
54) Chlorobenzene-d5	11.155	82	319292	10.000	ng	0.00
81) Bromochloromethane(sim)	7.518	130	228332	10.000	ng	# 0.00
96) 1,4-Difluorobenzene(sim)	8.684	114	747681	10.000	ng	0.00
106) Chlorobenzene-d5(sim)	11.155	82	319292	10.000	ng	0.00

System Monitoring Compounds

63) % Bromofluorobenzene	11.989	95	415450	10.102	ppbv	0.00
Spiked Amount	10.000	Range 70 - 130	Recovery	=	101.00%	

Target Compounds

						Qvalue
2) Propylene	4.079	41	12420	0.520	ppbv	96
3) Dichlorodifluoromethane	4.145	85	29102	0.493	ppbv	98
4) Chloromethane	4.302	50	14645	0.503	ppbv	100
5) 1,2-Dichlorotetrafluor...	4.394	85	28060	0.502	ppbv	99
6) Vinyl Chloride	4.501	62	13141	0.518	ppbv	92
7) 1,3-Butadiene	4.626	54	11759	0.536	ppbv	92
8) Bromomethane	4.858	94	11661	0.519	ppbv	98
9) Chloroethane	4.991	64	5197	0.520	ppbv	92
11) Ethanol	5.074	45	6807	0.513	ppbv#	89
12) Acetone	5.455	43	23463	0.520	ppbv	99
13) Trichlorofluoromethane	5.584	101	32917	0.505	ppbv	99
14) Isopropylalcohol	5.633	45	27430	0.489	ppbv#	89
15) Acrylonitrile	5.784	53	11388	0.504	ppbv	98
16) 1,1-Dichloroethene	6.040	61	21026	0.500	ppbv	99
17) Methylene Chloride	6.112	49	19969	0.525	ppbv	92
20) Carbon Disulfide	6.350	76	31340	0.513	ppbv	98
21) Trichlorotrifluoroethane	6.290	101	25825	0.506	ppbv	99
22) Trans-1,2-Dichloroethene	6.745	61	20041	0.498	ppbv	98
23) 1,1-Dichloroethane	6.874	63	23827	0.505	ppbv	98
24) Methyl tert-butyl ethe...	6.915	73	26130	0.492	ppbv	94
26) Methyl Ethyl Ketone	7.118	43	30824	0.511	ppbv	96
27) Cis-1,2-Dichloroethene	7.410	61	19303	0.509	ppbv	97
28) Hexane	7.531	57	20669	0.496	ppbv	99
29) Chloroform	7.588	83	24775	0.512	ppbv	99
30) Ethyl acetate	7.523	61	4516	0.509	ppbv	94
31) Tetrahydrofuran	7.864	42	13999	0.490	ppbv	97
32) 1,2-Dichloroethane	8.059	62	17695	0.499	ppbv	94
33) 1,1,1-Trichloroethane	8.221	97	26638	0.522	ppbv	96
34) Benzene	8.502	78	32754	0.510	ppbv	98
35) Carbon Tetrachloride	8.597	117	29546	0.502	ppbv	99
36) Cyclohexane	8.675	84	13541	0.536	ppbv	98
38) 1,2-dichloropropane	8.978	63	16049	0.501	ppbv	99
39) Bromodichloromethane	9.090	83	26670	0.512	ppbv	99
40) Trichloroethene	9.116	130	19348	0.516	ppbv	97
41) 2,2,4-trimethylpentane	9.125	57	68028	0.506	ppbv	98
42) 1,4-Dioxane	9.107	88	6062	0.449	ppbv#	79
44) Heptane	9.254	43	27609	0.516	ppbv	96
45) cis-1,3-Dichloropropene	9.596	75	19045	0.491	ppbv	98
46) 4-Methyl-2-pentanone(M...	9.610	43	33537	0.489	ppbv	96
47) trans-1,3-Dichloropropene	9.884	75	15521	0.491	ppbv	100
48) 1,1,2-Trichloroethane	10.004	97	15934	0.515	ppbv	98
49) Toluene	10.166	91	41337	0.505	ppbv	99

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2024\CHEM24\10OCT\18A\
 Data File : 1018_08.D
 Acq On : 18 Oct 2024 6:48 pm
 Operator : Keith
 Client ID : ICAL 0.5
 Lab ID : 0.50 ppb ; T01511
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 21 08:50:29 2024
 Quant Method : H:\AIR2024\CHEM24\Methods\24_AIR_1018.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Wed Sep 25 09:48:52 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
50) Dibromochloromethane	10.412	129	34306	0.500	ppbv	100
51) 2-Hexanone(MBK)	10.279	43	24556	0.417	ppbv	93
52) 1,2-Dibromoethane(EDB)	10.553	107	26656	0.495	ppbv	99
53) Tetrachloroethene	10.799	166	24769	0.490	ppbv	98
55) 1,1,1,2-Tetrachloroethane	11.162	131	22204	0.536	ppbv	98
56) Chlorobenzene	11.177	112	36844	0.542	ppbv	95
57) Ethylbenzene	11.367	91	50365	0.518	ppbv	99
58) m, p-Xylene	11.466	91	77653	1.063	ppbv	99
59) Bromoform	11.541	173	32154	0.516	ppbv	98
60) Styrene	11.670	104	27215	0.487	ppbv	97
61) 1,1,2,2-Tetrachloroethane	11.723	83	30549	0.516	ppbv	97
62) o-Xylene	11.731	91	40183	0.516	ppbv	99
65) Isopropylbenzene	12.049	105	62522	0.542	ppbv	99
67) 4-Ethyltoluene	12.424	105	53213	0.482	ppbv	96
68) 1,3,5-Trimethylbenzene	12.462	105	47470	0.500	ppbv	96
69) 1,2,4-Trimethylbenzene	12.711	105	46223	0.481	ppbv	100
71) Benzyl chloride	12.812	91	16243	0.338	ppbv	99
72) 1,3-Dichlorobenzene	12.828	146	29753	0.451	ppbv	96
73) 1,4-Dichlorobenzene	12.867	146	22409	0.413	ppbv	97
74) sec-Butylbenzene	12.875	105	76252	0.533	ppbv	99
75) 4-Isopropyltoluene	12.960	119	67838	0.507	ppbv	100
76) 1,2-Dichlorobenzene	13.084	146	28018	0.448	ppbv	99
77) n-Butylbenzene	13.232	91	40740	0.436	ppbv	99
78) 1,2,4-Trichlorobenzene	14.282	180	6455	0.350	ppbv	97
79) Naphthalene	14.383	128	19816	0.399	ppbv#	99
80) Hexachlorobutadiene	14.639	225	30626	0.450	ppbv	97
82] 1,2-Dichlorotetrafluor...	4.394	85	28060	0.485	ppbv	98
83] Vinyl Chloride(sim)	4.496	62	13282	0.493	ppbv	100
84] Bromomethane(sim)	4.858	94	11661	0.482	ppbv#	98
85] Trichlorofluoromethane...	5.587	101	33897	0.506	ppbv#	100
86] 1,2-Dichloroethane(sim)	8.059	62	17695	0.487	ppbv	94
87] 1,1,1-Trichloroethane(...	8.224	97	27649	0.507	ppbv#	98
88] Benzene(sim)	8.502	78	32754	0.473	ppbv	98
89] Carbon Tetrachloride(sim)	8.600	117	30245	0.514	ppbv	100
90] 1,1-Dichloroethene(sim)	6.040	61	21026	0.486	ppbv	99
91] Trichlorotrifluoroetha...	6.293	101	27197	0.509	ppbv#	100
92] Trans-1,2-Dichloroethe...	6.745	61	20041	0.483	ppbv	98
93] 1,1-Dichloroethane(sim)	6.877	63	25526	0.500	ppbv	100
94] Cis-1,2-Dichloroethene...	7.410	61	19303	0.498	ppbv	97
95] Chloroform(sim)	7.591	83	25544	0.502	ppbv	98
97] 1,2-dichloropropane(sim)	8.981	63	17227	0.506	ppbv	98
98] Bromodichloromethane(sim)	9.090	83	26827	0.501	ppbv	99
99] Trichloroethene(sim)	9.119	130	19527	0.503	ppbv	100
100] 1,4-Dioxane(sim)	9.107	88	6062	0.443	ppbv#	79
101] cis-1,3-Dichloropropen...	9.599	75	20634	0.503	ppbv	99
102] 1,1,2-Trichloroethane(...	10.004	97	15934	0.501	ppbv	98
103] Dibromochloromethane(sim)	10.415	129	34398	0.509	ppbv	100
104] 1,2-Dibromoethane(EDB)...	10.553	107	26656	0.489	ppbv	99
105] Tetrachloroethene(sim)	10.802	166	25776	0.477	ppbv	99
107] Bromoform(sim)	11.544	173	31611	0.518	ppbv	100
108] m, p-Xylene(sim)	11.466	91	77653	0.873	ppbv	99
109] 1,1,2,2-Tetrachloroeth...	11.726	83	32141	0.506	ppbv	100
112] Benzyl chloride(sim)	12.812	91	16243	0.462	ppbv	99
113] 1,3-Dichlorobenzene(sim)	12.831	146	30942	0.533	ppbv	99
114] 1,4-Dichlorobenzene(sim)	12.867	146	22409	0.485	ppbv	97

Data Path : H:\AIR2024\CHEM24\10OCT\18A\
Data File : 1018_08.D
Acq On : 18 Oct 2024 6:48 pm
Operator : Keith
Client ID : ICAL 0.5
Lab ID : 0.50 ppb ; T01511
ALS Vial : 9 Sample Multiplier: 1

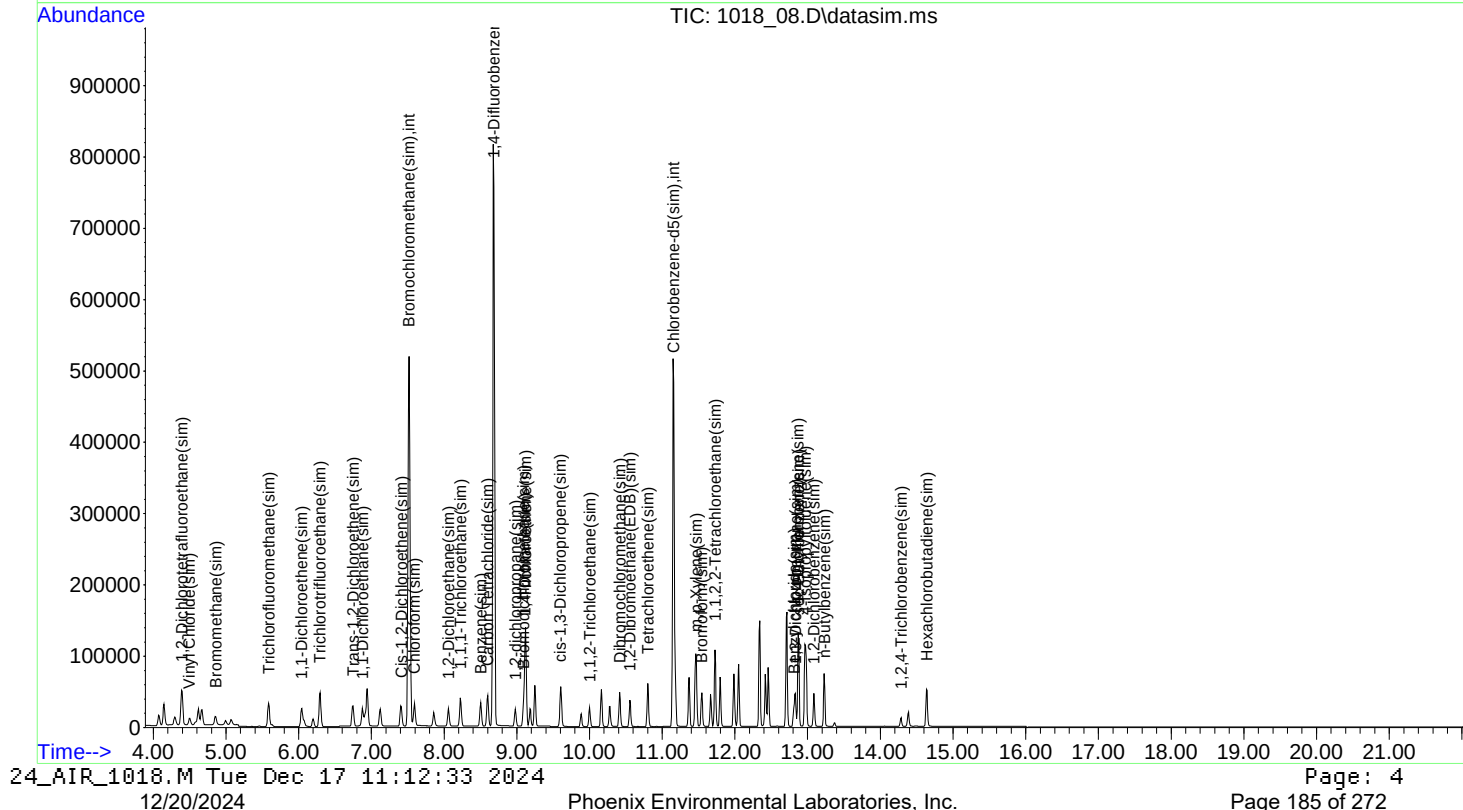
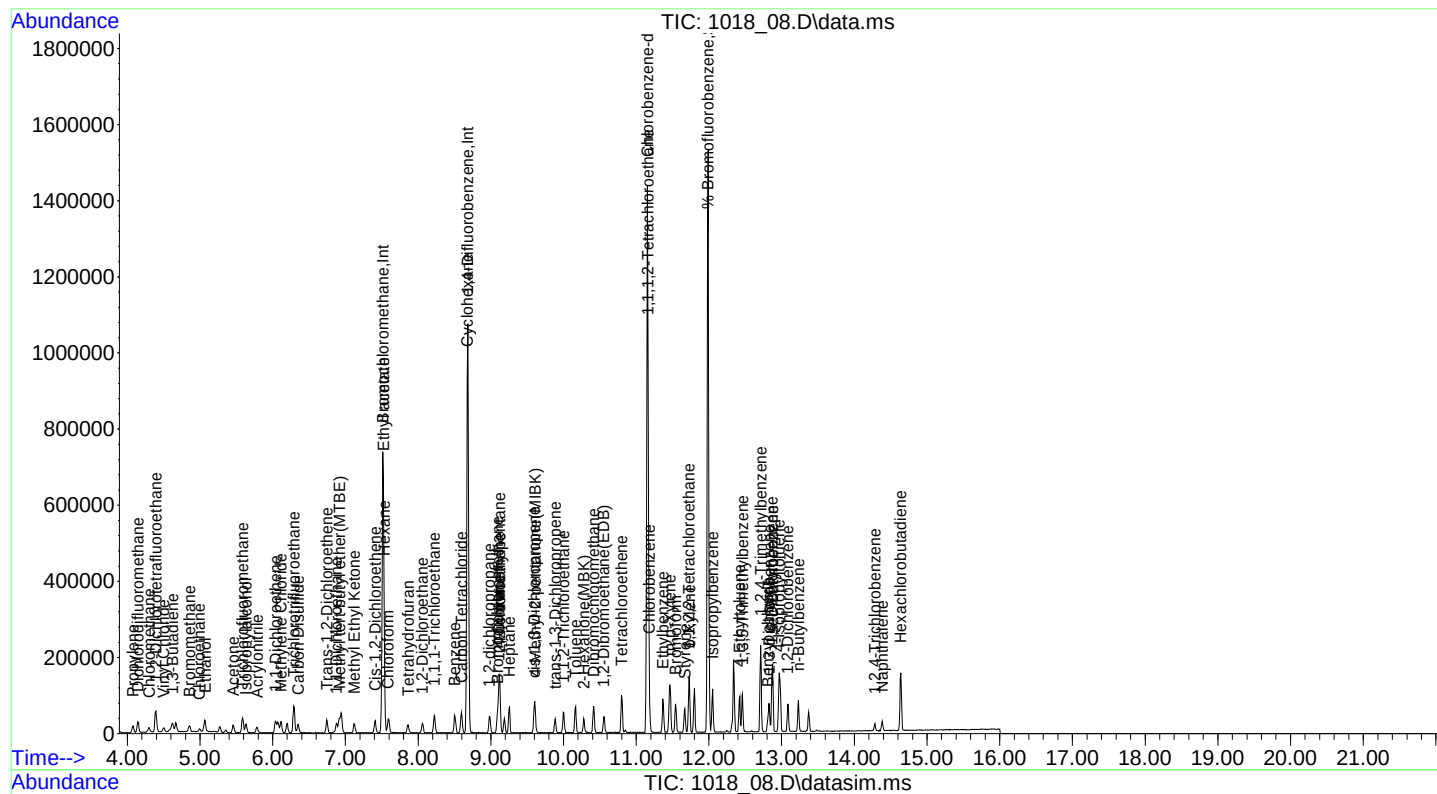
Quant Time: Oct 21 08:50:29 2024
Quant Method : H:\AIR2024\CHEM24\Methods\24_AIR_1018.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Wed Sep 25 09:48:52 2024
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
115]	sec-Butylbenzene(sim)	12.877	105	83426	0.516	ppbv	100
116]	4-Isopropyltoluene(sim)	12.960	119	67838	0.485	ppbv	100
117]	1,2-Dichlorobenzene(sim)	13.087	146	31177	0.494	ppbv	99
118]	n-Butylbenzene(sim)	13.232	91	40740	0.510	ppbv	99
119]	1,2,4-Trichlorobenzene...	14.285	180	7606	0.522	ppbv	98
120]	Hexachlorobutadiene(sim)	14.639	225	28777	0.428	ppbv	97

(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Data Path : H:\AIR2024\CHEM24\10OCT\18A\
Data File : 1018_08.D
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Operator : Keith
Client ID : ICAL 0.5
Lab ID : 0.50 ppb ; T01511
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Quant Title : VOA Standards for 5 point calibration
QLast Update : Wed Sep 25 09:48:52 2024
Response via : Initial Calibration



Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2024\CHEM24\10OCT\18A\
 Data File : 1018_09.D
 Acq On : 18 Oct 2024 7:28 pm
 Operator : Keith
 Client ID : ICAL 2.5
 Lab ID : 2.5 ppb ; T01511
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Oct 21 08:50:39 2024
 Quant Method : H:\AIR2024\CHEM24\Methods\24_AIR_1018.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Wed Sep 25 09:48:52 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	7.515	130	221654	10.000	ng	0.00
37) 1,4-Difluorobenzene	8.684	114	730400	10.000	ng	0.00
54) Chlorobenzene-d5	11.155	82	317890	10.000	ng	0.00
81) Bromochloromethane(sim)	7.518	130	222485	10.000	ng	# 0.00
96) 1,4-Difluorobenzene(sim)	8.684	114	730400	10.000	ng	0.00
106) Chlorobenzene-d5(sim)	11.155	82	317890	10.000	ng	0.00
System Monitoring Compounds						
63) % Bromofluorobenzene	11.989	95	424105	10.358	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	103.60%
Target Compounds						
					Qvalue	
2) Propylene	4.079	41	54368	2.343	ppbv	97
3) Dichlorodifluoromethane	4.145	85	141048	2.461	ppbv	99
4) Chloromethane	4.303	50	69372	2.456	ppbv	99
5) 1,2-Dichlorotetrafluor...	4.394	85	132563	2.444	ppbv	99
6) Vinyl Chloride	4.502	62	60500	2.456	ppbv	97
7) 1,3-Butadiene	4.618	54	52042	2.442	ppbv	95
8) Bromomethane	4.858	94	53154	2.437	ppbv	99
9) Chloroethane	4.999	64	24080	2.483	ppbv	95
11) Ethanol	5.074	45	29748	2.310	ppbv	97
12) Acetone	5.449	43	107462	2.454	ppbv	98
13) Trichlorofluoromethane	5.584	101	152981	2.419	ppbv	99
14) Isopropylalcohol	5.621	45	136640	2.510	ppbv	97
15) Acrylonitrile	5.784	53	53442	2.437	ppbv	97
16) 1,1-Dichloroethene	6.040	61	100735	2.466	ppbv	97
17) Methylene Chloride	6.112	49	89683	2.428	ppbv	93
20) Carbon Disulfide	6.350	76	144666	2.439	ppbv	98
21) Trichlorotrifluoroethane	6.290	101	121739	2.457	ppbv	98
22) Trans-1,2-Dichloroethene	6.745	61	94328	2.413	ppbv	98
23) 1,1-Dichloroethane	6.875	63	112475	2.454	ppbv	99
24) Methyl tert-butyl ethe...	6.907	73	124037	2.406	ppbv	97
26) Methyl Ethyl Ketone	7.110	43	145229	2.479	ppbv	96
27) Cis-1,2-Dichloroethene	7.410	61	88463	2.404	ppbv	99
28) Hexane	7.531	57	98534	2.437	ppbv	99
29) Chloroform	7.596	83	113708	2.419	ppbv	98
30) Ethyl acetate	7.515	61	21054	2.447	ppbv	94
31) Tetrahydrofuran	7.848	42	67893	2.449	ppbv	95
32) 1,2-Dichloroethane	8.059	62	84120	2.443	ppbv	96
33) 1,1,1-Trichloroethane	8.229	97	121250	2.447	ppbv	98
34) Benzene	8.502	78	147709	2.368	ppbv	98
35) Carbon Tetrachloride	8.597	117	138292	2.422	ppbv	99
36) Cyclohexane	8.675	84	56675	2.309	ppbv	94
38) 1,2-dichloropropane	8.986	63	76366	2.438	ppbv	97
39) Bromodichloromethane	9.090	83	125326	2.463	ppbv	98
40) Trichloroethene	9.116	130	92723	2.530	ppbv	97
41) 2,2,4-trimethylpentane	9.125	57	327808	2.497	ppbv	99
42) 1,4-Dioxane	9.107	88	33643	2.551	ppbv	91
44) Heptane	9.255	43	131323	2.511	ppbv	94
45) cis-1,3-Dichloropropene	9.596	75	93697	2.472	ppbv	97
46) 4-Methyl-2-pentanone(M...	9.603	43	168421	2.514	ppbv	98
47) trans-1,3-Dichloropropene	9.884	75	73497	2.378	ppbv	99
48) 1,1,2-Trichloroethane	10.004	97	73761	2.442	ppbv	99
49) Toluene	10.166	91	192347	2.408	ppbv	98

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2024\CHEM24\10OCT\18A\
 Data File : 1018_09.D
 Acq On : 18 Oct 2024 7:28 pm
 Operator : Keith
 Client ID : ICAL 2.5
 Lab ID : 2.5 ppb ; T01511
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Oct 21 08:50:39 2024
 Quant Method : H:\AIR2024\CHEM24\Methods\24_AIR_1018.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Wed Sep 25 09:48:52 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
50) Dibromochloromethane	10.412	129	162816	2.430	ppbv	99
51) 2-Hexanone(MBK)	10.272	43	140739	2.448	ppbv	95
52) 1,2-Dibromoethane(EDB)	10.553	107	127094	2.418	ppbv	98
53) Tetrachloroethene	10.799	166	121354	2.458	ppbv	98
55) 1,1,1,2-Tetrachloroethane	11.162	131	105686	2.560	ppbv	98
56) Chlorobenzene	11.177	112	172178	2.546	ppbv	95
57) Ethylbenzene	11.367	91	246222	2.544	ppbv	100
58) m, p-Xylene	11.466	91	388533	5.343	ppbv	100
59) Bromoform	11.541	173	158843	2.561	ppbv	99
60) Styrene	11.670	104	141443	2.542	ppbv	97
61) 1,1,2,2-Tetrachloroethane	11.723	83	154743	2.625	ppbv	95
62) o-Xylene	11.731	91	202815	2.615	ppbv	99
65) Isopropylbenzene	12.049	105	295012	2.569	ppbv	98
67) 4-Ethyltoluene	12.424	105	288777	2.626	ppbv	96
68) 1,3,5-Trimethylbenzene	12.463	105	254606	2.693	ppbv	96
69) 1,2,4-Trimethylbenzene	12.711	105	259450	2.714	ppbv	99
71) Benzyl chloride	12.812	91	123533	2.580	ppbv	99
72) 1,3-Dichlorobenzene	12.828	146	172030	2.618	ppbv	98
73) 1,4-Dichlorobenzene	12.867	146	137791	2.550	ppbv	99
74) sec-Butylbenzene	12.875	105	377661	2.653	ppbv	98
75) 4-Isopropyltoluene	12.960	119	350308	2.629	ppbv	99
76) 1,2-Dichlorobenzene	13.084	146	163217	2.619	ppbv	97
77) n-Butylbenzene	13.232	91	241223	2.593	ppbv	99
78) 1,2,4-Trichlorobenzene	14.282	180	55637	2.902	ppbv	94
79) Naphthalene	14.383	128	151697	2.989	ppbv#	98
80) Hexachlorobutadiene	14.639	225	182062	2.687	ppbv	98
82] 1,2-Dichlorotetrafluor...	4.394	85	132573	2.351	ppbv	99
83] Vinyl Chloride(sim)	4.504	62	63633	2.423	ppbv	99
84] Bromomethane(sim)	4.858	94	53154	2.257	ppbv	98
85] Trichlorofluoromethane...	5.587	101	159278	2.442	ppbv#	99
86] 1,2-Dichloroethane(sim)	8.059	62	84120	2.378	ppbv	96
87] 1,1,1-Trichloroethane(...	8.224	97	129252	2.431	ppbv#	99
88] Benzene(sim)	8.502	78	147709	2.190	ppbv	98
89] Carbon Tetrachloride(sim)	8.600	117	140485	2.450	ppbv	100
90] 1,1-Dichloroethene(sim)	6.040	61	100735	2.390	ppbv	97
91] Trichlorotrifluoroetha...	6.293	101	126611	2.431	ppbv#	99
92] Trans-1,2-Dichloroethe...	6.745	61	94328	2.333	ppbv	98
93] 1,1-Dichloroethane(sim)	6.877	63	119572	2.402	ppbv	99
94] Cis-1,2-Dichloroethene...	7.410	61	88463	2.343	ppbv	99
95] Chloroform(sim)	7.591	83	119308	2.407	ppbv	99
97] 1,2-dichloropropane(sim)	8.981	63	81500	2.453	ppbv	98
98] Bromodichloromethane(sim)	9.090	83	125326	2.397	ppbv	98
99] Trichloroethene(sim)	9.119	130	92377	2.435	ppbv	99
100] 1,4-Dioxane(sim)	9.107	88	33643	2.514	ppbv	91
101] cis-1,3-Dichloropropen...	9.599	75	100172	2.500	ppbv	99
102] 1,1,2-Trichloroethane(...	10.004	97	73761	2.373	ppbv	99
103] Dibromochloromethane(sim)	10.415	129	163396	2.474	ppbv	100
104] 1,2-Dibromoethane(EDB)...	10.553	107	127094	2.389	ppbv	98
105] Tetrachloroethene(sim)	10.802	166	123233	2.337	ppbv	100
107] Bromoform(sim)	11.544	173	153863	2.531	ppbv	100
108] m, p-Xylene(sim)	11.466	91	388533	4.389	ppbv	100
109] 1,1,2,2-Tetrachloroeth...	11.726	83	161946	2.560	ppbv	100
112] Benzyl chloride(sim)	12.812	91	123533	2.695	ppbv	99
113] 1,3-Dichlorobenzene(sim)	12.831	146	180693	3.125	ppbv	99
114] 1,4-Dichlorobenzene(sim)	12.867	146	137791	2.998	ppbv	99

Data Path : H:\AIR2024\CHEM24\10OCT\18A\
Data File : 1018_09.D
Acq On : 18 Oct 2024 7:28 pm
Operator : Keith
Client ID : ICAL 2.5
Lab ID : 2.5 ppb ; T01511
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Oct 21 08:50:39 2024
Quant Method : H:\AIR2024\CHEM24\Methods\24_AIR_1018.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Wed Sep 25 09:48:52 2024
Response via : Initial Calibration

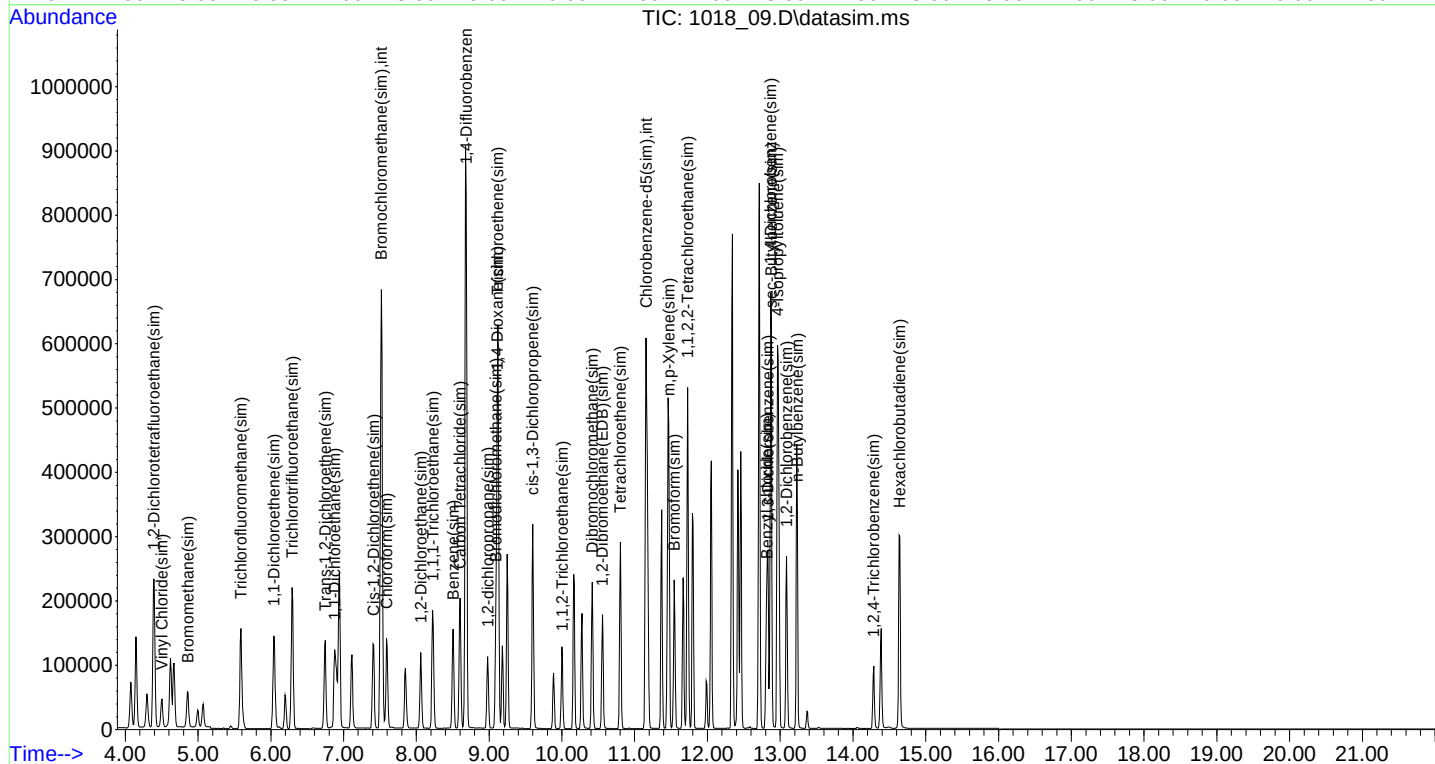
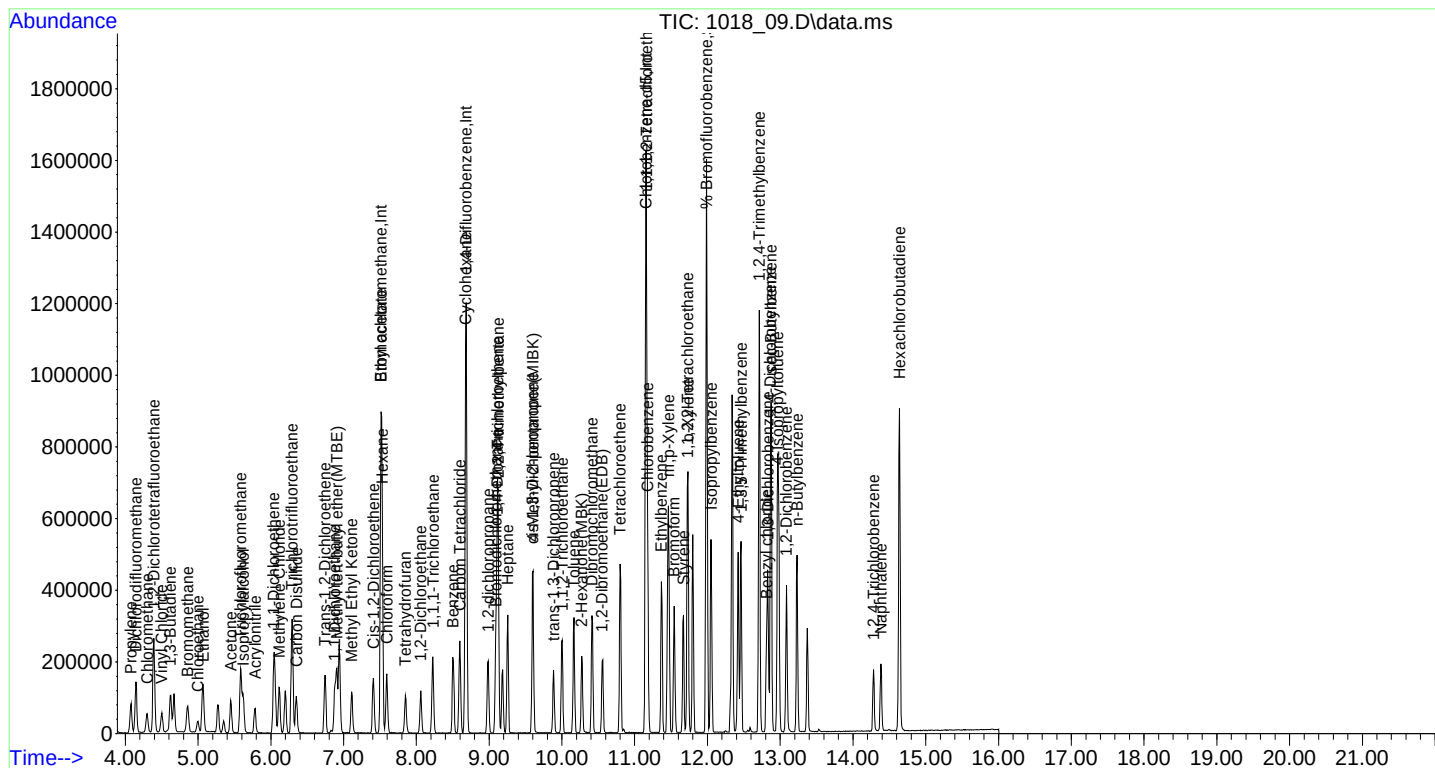
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
115]	sec-Butylbenzene(sim)	12.877	105	416914	2.590	ppbv	100
116]	4-Isopropyltoluene(sim)	12.960	119	350308	2.516	ppbv	99
117]	1,2-Dichlorobenzene(sim)	13.087	146	182170	2.902	ppbv	100
118]	n-Butylbenzene(sim)	13.232	91	241223	3.032	ppbv	99
119]	1,2,4-Trichlorobenzene...	14.285	180	61085	1.887	ppbv	100
120]	Hexachlorobutadiene(sim)	14.639	225	180790	2.698	ppbv	97

(#)out of range (m>manual integration reviewed by analyst (+)signals summed

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2024\CHEM24\10OCT\18A\
Data File : 1018_09.D
Acq On : 18 Oct 2024 7:28 pm
Operator : Keith
Client ID : ICAL 2.5
Lab ID : 2.5 ppb ; T01511
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Oct 21 08:50:39 2024
Quant Method : H:\AIR2024\CHEM24\Methods\24_AIR_1018.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Wed Sep 25 09:48:52 2024
Response via : Initial Calibration



Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2024\CHEM24\10OCT\18A\
 Data File : 1018_10.D
 Acq On : 18 Oct 2024 8:01 pm
 Operator : Keith
 Client ID : ICAL 5
 Lab ID : 5.0 ppb ; T01511
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Oct 21 08:50:48 2024
 Quant Method : H:\AIR2024\CHEM24\Methods\24_AIR_1018.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Wed Sep 25 09:48:52 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	7.515	130	212446	10.000	ng	0.00
37) 1,4-Difluorobenzene	8.684	114	707833	10.000	ng	0.00
54) Chlorobenzene-d5	11.155	82	313623	10.000	ng	0.00
81) Bromochloromethane(sim)	7.518	130	214485	10.000	ng	# 0.00
96) 1,4-Difluorobenzene(sim)	8.684	114	708103	10.000	ng	0.00
106) Chlorobenzene-d5(sim)	11.155	82	313623	10.000	ng	0.00
System Monitoring Compounds						
63) % Bromofluorobenzene	11.989	95	423127	10.475	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	104.70%
Target Compounds						
					Qvalue	
2) Propylene	4.079	41	110086	4.950	ppbv	98
3) Dichlorodifluoromethane	4.145	85	283013	5.151	ppbv	99
4) Chloromethane	4.294	50	138078	5.099	ppbv	100
5) 1,2-Dichlorotetrafluor...	4.394	85	264557	5.090	ppbv	98
6) Vinyl Chloride	4.501	62	121236	5.134	ppbv	97
7) 1,3-Butadiene	4.626	54	103726	5.078	ppbv	94
8) Bromomethane	4.858	94	104403	4.993	ppbv	98
9) Chloroethane	4.991	64	46602	5.014	ppbv	94
11) Ethanol	5.065	45	60152	4.873	ppbv	92
12) Acetone	5.443	43	205472	4.895	ppbv	98
13) Trichlorofluoromethane	5.584	101	307603	5.074	ppbv	99
14) Isopropylalcohol	5.615	45	268027	5.138	ppbv#	93
15) Acrylonitrile	5.778	53	106068	5.047	ppbv	97
16) 1,1-Dichloroethene	6.040	61	200946	5.132	ppbv	97
17) Methylene Chloride	6.112	49	175992	4.970	ppbv	94
20) Carbon Disulfide	6.350	76	289256	5.089	ppbv	99
21) Trichlorotrifluoroethane	6.290	101	242175	5.099	ppbv	98
22) Trans-1,2-Dichloroethene	6.745	61	191148	5.102	ppbv	98
23) 1,1-Dichloroethane	6.875	63	222563	5.066	ppbv	99
24) Methyl tert-butyl ethe...	6.899	73	242461	4.907	ppbv	97
26) Methyl Ethyl Ketone	7.110	43	276310	4.922	ppbv	97
27) Cis-1,2-Dichloroethene	7.410	61	178082	5.049	ppbv	98
28) Hexane	7.531	57	199794	5.156	ppbv	98
29) Chloroform	7.596	83	227682	5.053	ppbv	99
30) Ethyl acetate	7.507	61	41231	4.999	ppbv	93
31) Tetrahydrofuran	7.848	42	133888	5.040	ppbv	95
32) 1,2-Dichloroethane	8.059	62	166784	5.054	ppbv	96
33) 1,1,1-Trichloroethane	8.221	97	240152	5.056	ppbv	98
34) Benzene	8.502	78	297440	4.976	ppbv	99
35) Carbon Tetrachloride	8.597	117	278296	5.085	ppbv	99
36) Cyclohexane	8.675	84	111847	4.755	ppbv	94
38) 1,2-dichloropropane	8.986	63	153824	5.068	ppbv	97
39) Bromodichloromethane	9.090	83	249271	5.055	ppbv	98
40) Trichloroethene	9.116	130	180711	5.088	ppbv	99
41) 2,2,4-trimethylpentane	9.125	57	659673	5.186	ppbv	99
42) 1,4-Dioxane	9.099	88	66501	5.203	ppbv	91
44) Heptane	9.254	43	258822	5.106	ppbv	96
45) cis-1,3-Dichloropropene	9.596	75	185247	5.044	ppbv	97
46) 4-Methyl-2-pentanone(M...	9.596	43	333302	5.134	ppbv	98
47) trans-1,3-Dichloropropene	9.884	75	147577	4.928	ppbv	100
48) 1,1,2-Trichloroethane	9.997	97	143394	4.899	ppbv	99
49) Toluene	10.166	91	390779	5.047	ppbv	99

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2024\CHEM24\10OCT\18A\
 Data File : 1018_10.D
 Acq On : 18 Oct 2024 8:01 pm
 Operator : Keith
 Client ID : ICAL 5
 Lab ID : 5.0 ppb ; T01511
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Oct 21 08:50:48 2024
 Quant Method : H:\AIR2024\CHEM24\Methods\24_AIR_1018.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Wed Sep 25 09:48:52 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
50) Dibromochloromethane	10.412	129	324964	5.005	ppbv	99
51) 2-Hexanone(MBK)	10.272	43	300240	5.389	ppbv	95
52) 1,2-Dibromoethane(EDB)	10.553	107	257237	5.050	ppbv	100
53) Tetrachloroethene	10.799	166	242501	5.069	ppbv	98
55) 1,1,1,2-Tetrachloroethane	11.162	131	209438	5.143	ppbv	99
56) Chlorobenzene	11.177	112	349559	5.238	ppbv	93
57) Ethylbenzene	11.367	91	493955	5.174	ppbv	99
58) m, p-Xylene	11.466	91	764930	10.662	ppbv	99
59) Bromoform	11.541	173	308793	5.047	ppbv	100
60) Styrene	11.670	104	291803	5.315	ppbv	97
61) 1,1,2,2-Tetrachloroethane	11.723	83	304195	5.230	ppbv	96
62) o-Xylene	11.731	91	394371	5.154	ppbv	100
65) Isopropylbenzene	12.049	105	577660	5.099	ppbv	99
67) 4-Ethyltoluene	12.424	105	577520	5.323	ppbv	96
68) 1,3,5-Trimethylbenzene	12.462	105	490602	5.259	ppbv	96
69) 1,2,4-Trimethylbenzene	12.711	105	507145	5.377	ppbv	98
71) Benzyl chloride	12.812	91	293918	6.222	ppbv	98
72) 1,3-Dichlorobenzene	12.828	146	352856	5.442	ppbv	100
73) 1,4-Dichlorobenzene	12.867	146	284940	5.346	ppbv	98
74) sec-Butylbenzene	12.875	105	731288	5.207	ppbv	100
75) 4-Isopropyltoluene	12.960	119	696672	5.299	ppbv	99
76) 1,2-Dichlorobenzene	13.084	146	340353	5.535	ppbv	98
77) n-Butylbenzene	13.232	91	520881	5.675	ppbv	99
78) 1,2,4-Trichlorobenzene	14.282	180	157963	7.740	ppbv	96
79) Naphthalene	14.383	128	438529	8.330	ppbv#	99
80) Hexachlorobutadiene	14.639	225	364984	5.459	ppbv	98
82] 1,2-Dichlorotetrafluor...	4.394	85	264542	4.867	ppbv	98
83] Vinyl Chloride(sim)	4.504	62	127956	5.055	ppbv	99
84] Bromomethane(sim)	4.858	94	104403	4.598	ppbv	98
85] Trichlorofluoromethane...	5.587	101	315859	5.023	ppbv#	99
86] 1,2-Dichloroethane(sim)	8.059	62	166784	4.890	ppbv	96
87] 1,1,1-Trichloroethane(...	8.224	97	257838	5.030	ppbv#	99
88] Benzene(sim)	8.502	78	297440	4.575	ppbv	99
89] Carbon Tetrachloride(sim)	8.600	117	282563	5.111	ppbv	100
90] 1,1-Dichloroethene(sim)	6.040	61	200946	4.946	ppbv	97
91] Trichlorotrifluoroetha...	6.293	101	249867	4.977	ppbv#	100
92] Trans-1,2-Dichloroethe...	6.745	61	191148	4.904	ppbv	98
93] 1,1-Dichloroethane(sim)	6.877	63	237344	4.946	ppbv	100
94] Cis-1,2-Dichloroethene...	7.410	61	178082	4.892	ppbv	98
95] Chloroform(sim)	7.591	83	236910	4.958	ppbv	99
97] 1,2-dichloropropane(sim)	8.981	63	162655	5.049	ppbv	98
98] Bromodichloromethane(sim)	9.090	83	249271	4.917	ppbv	98
99] Trichloroethene(sim)	9.119	130	183751	4.995	ppbv	99
100] 1,4-Dioxane(sim)	9.099	88	66501	5.126	ppbv	91
101] cis-1,3-Dichloropropen...	9.599	75	200474	5.161	ppbv	99
102] 1,1,2-Trichloroethane(...	9.997	97	143295	4.755	ppbv	99
103] Dibromochloromethane(sim)	10.415	129	324755	5.073	ppbv	100
104] 1,2-Dibromoethane(EDB)...	10.553	107	257237	4.987	ppbv	100
105] Tetrachloroethene(sim)	10.802	166	245046	4.793	ppbv	100
107] Bromoform(sim)	11.544	173	300314	5.007	ppbv	100
108] m, p-Xylene(sim)	11.466	91	767070	8.783	ppbv	99
109] 1,1,2,2-Tetrachloroeth...	11.726	83	315603	5.058	ppbv	100
112] Benzyl chloride(sim)	12.812	91	293918	5.159	ppbv	98
113] 1,3-Dichlorobenzene(sim)	12.831	146	373220	6.543	ppbv	99
114] 1,4-Dichlorobenzene(sim)	12.867	146	283660	6.255	ppbv	98

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2024\CHEM24\10OCT\18A\
Data File : 1018_10.D
Acq On : 18 Oct 2024 8:01 pm
Operator : Keith
Client ID : ICAL 5
Lab ID : 5.0 ppb ; T01511
ALS Vial : 11 Sample Multiplier: 1

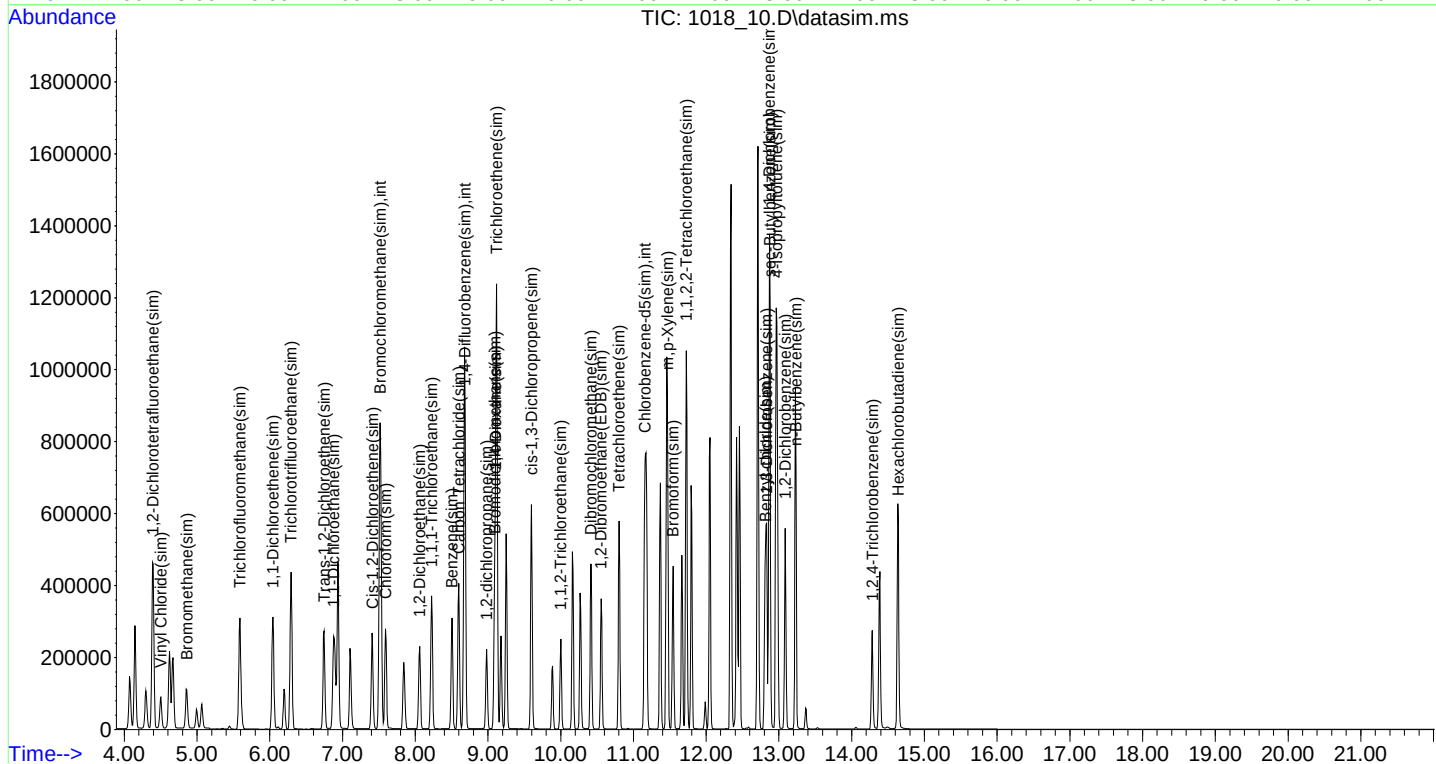
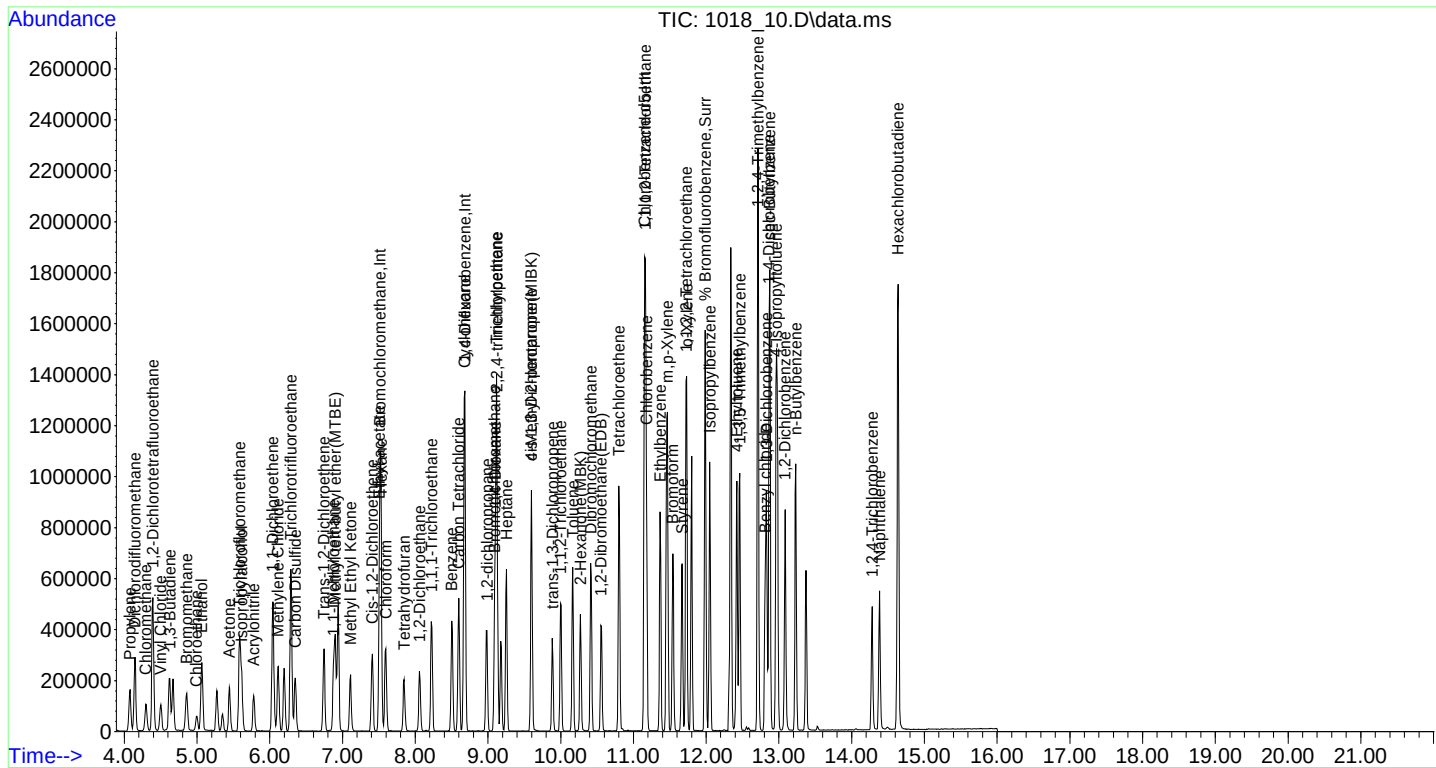
Quant Time: Oct 21 08:50:48 2024
Quant Method : H:\AIR2024\CHEM24\Methods\24_AIR_1018.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Wed Sep 25 09:48:52 2024
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
115]	sec-Butylbenzene(sim)	12.877	105	811227	5.108	ppbv	100
116]	4-Isopropyltoluene(sim)	12.960	119	696672	5.071	ppbv	99
117]	1,2-Dichlorobenzene(sim)	13.087	146	376754	6.083	ppbv	100
118]	n-Butylbenzene(sim)	13.232	91	520881	6.637	ppbv	99
119]	1,2,4-Trichlorobenzene...	14.285	180	172989	3.379	ppbv	99
120]	Hexachlorobutadiene(sim)	14.639	225	363896	5.504	ppbv	97

(#)out of range (m>manual integration reviewed by analyst (+)signals summed

Data Path : H:\AIR2024\CHEM24\10OCT\18A\
Data File : 1018_10.D
Acq On : 18 Oct 2024 8:01 pm
Operator : Keith
Client ID : ICAL 5
Lab ID : 5.0 ppb ; T01511
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Oct 21 08:50:48 2024
Quant Method : H:\AIR2024\CHEM24\Methods\24_AIR_1018.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Wed Sep 25 09:48:52 2024
Response via : Initial Calibration



Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2024\CHEM24\10OCT\18A\
 Data File : 1018_11.D
 Acq On : 18 Oct 2024 8:39 pm
 Operator : Keith
 Client ID : ICAL 25
 Lab ID : 25 ppb ; T01511
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Oct 21 08:50:58 2024
 Quant Method : H:\AIR2024\CHEM24\Methods\24_AIR_1018.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Wed Sep 25 09:48:52 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	7.515	130	206330	10.000	ng	0.00
37) 1,4-Difluorobenzene	8.684	114	691814	10.000	ng	0.00
54) Chlorobenzene-d5	11.155	82	350930	10.000	ng	0.00
81) Bromochloromethane(sim)	7.518	130	204973	10.000	ng	# 0.00
96) 1,4-Difluorobenzene(sim)	8.684	114	691963	10.000	ng	0.00
106) Chlorobenzene-d5(sim)	11.155	82	350930	10.000	ng	0.00

System Monitoring Compounds

63) % Bromofluorobenzene	11.989	95	443782	9.818	ppbv	0.00
Spiked Amount	10.000	Range 70 - 130	Recovery	=	98.20%	

Target Compounds

						Qvalue
2) Propylene	4.079	41	539551	24.978	ppbv	99
3) Dichlorodifluoromethane	4.145	85	1363999	25.563	ppbv	99
4) Chloromethane	4.294	50	649161	24.685	ppbv	100
5) 1,2-Dichlorotetrafluor...	4.394	85	1244231	24.647	ppbv	99
6) Vinyl Chloride	4.502	62	559951	24.417	ppbv	97
7) 1,3-Butadiene	4.618	54	484629	24.429	ppbv	95
8) Bromomethane	4.858	94	494074	24.331	ppbv	98
9) Chloroethane	4.999	64	218792	24.237	ppbv	93
11) Ethanol	5.065	45	274419	22.889	ppbv	93
12) Acetone	5.443	43	965364	23.680	ppbv	99
13) Trichlorofluoromethane	5.584	101	1525839	25.917	ppbv	99
14) Isopropylalcohol	5.609	45	1225485	24.186	ppbv	97
15) Acrylonitrile	5.778	53	505478	24.765	ppbv	97
16) 1,1-Dichloroethene	6.040	61	940656	24.735	ppbv	97
17) Methylene Chloride	6.118	49	806449	23.450	ppbv	94
20) Carbon Disulfide	6.350	76	1337403	24.227	ppbv	99
21) Trichlorotrifluoroethane	6.290	101	1113479	24.139	ppbv	99
22) Trans-1,2-Dichloroethene	6.745	61	897755	24.672	ppbv	97
23) 1,1-Dichloroethane	6.875	63	1036032	24.281	ppbv	99
24) Methyl tert-butyl ethe...	6.899	73	1196803	24.939	ppbv	99
26) Methyl Ethyl Ketone	7.102	43	1351592	24.788	ppbv	97
27) Cis-1,2-Dichloroethene	7.410	61	852221	24.881	ppbv	97
28) Hexane	7.531	57	948278	25.197	ppbv	97
29) Chloroform	7.596	83	1067996	24.405	ppbv	99
30) Ethyl acetate	7.507	61	203513	25.405	ppbv	93
31) Tetrahydrofuran	7.840	42	658477	25.520	ppbv	96
32) 1,2-Dichloroethane	8.059	62	802343	25.035	ppbv	97
33) 1,1,1-Trichloroethane	8.229	97	1149653	24.924	ppbv	99
34) Benzene	8.502	78	1403868	24.180	ppbv	98
35) Carbon Tetrachloride	8.597	117	1333468	25.088	ppbv	99
36) Cyclohexane	8.675	84	540878	23.675	ppbv	92
38) 1,2-dichloropropane	8.986	63	734512	24.758	ppbv	95
39) Bromodichloromethane	9.099	83	1193533	24.765	ppbv	99
40) Trichloroethene	9.116	130	844811	24.338	ppbv	99
41) 2,2,4-trimethylpentane	9.125	57	3060535	24.615	ppbv	100
42) 1,4-Dioxane	9.090	88	317376	25.408	ppbv	91
44) Heptane	9.255	43	1231196	24.850	ppbv	96
45) cis-1,3-Dichloropropene	9.596	75	909627	25.339	ppbv	98
46) 4-Methyl-2-pentanone(M...	9.596	43	1599297	25.206	ppbv	99
47) trans-1,3-Dichloropropene	9.884	75	760177	25.971	ppbv	100
48) 1,1,2-Trichloroethane	10.004	97	704871	24.639	ppbv	99
49) Toluene	10.166	91	1907480	25.207	ppbv	99

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2024\CHEM24\10OCT\18A\
 Data File : 1018_11.D
 Acq On : 18 Oct 2024 8:39 pm
 Operator : Keith
 Client ID : ICAL 25
 Lab ID : 25 ppb ; T01511
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Oct 21 08:50:58 2024
 Quant Method : H:\AIR2024\CHEM24\Methods\24_AIR_1018.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Wed Sep 25 09:48:52 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
50) Dibromochloromethane	10.419	129	1625316	25.610	ppbv	99
51) 2-Hexanone(MBK)	10.265	43	1494906	27.453	ppbv	97
52) 1,2-Dibromoethane(EDB)	10.560	107	1257068	25.247	ppbv	99
53) Tetrachloroethene	10.800	166	1172728	25.082	ppbv	98
55) 1,1,1,2-Tetrachloroethane	11.162	131	1046328	22.960	ppbv	99
56) Chlorobenzene	11.177	112	1710578	22.909	ppbv	93
57) Ethylbenzene	11.367	91	2457090	23.001	ppbv	99
58) m, p-Xylene	11.466	91	3756223	46.792	ppbv	98
59) Bromoform	11.541	173	1626459	23.755	ppbv	99
60) Styrene	11.670	104	1518698	24.722	ppbv	98
61) 1,1,2,2-Tetrachloroethane	11.723	83	1498652	23.027	ppbv	96
62) o-Xylene	11.731	91	1953193	22.814	ppbv	100
65) Isopropylbenzene	12.049	105	2898175	22.862	ppbv	98
67) 4-Ethyltoluene	12.424	105	2952971	24.326	ppbv	96
68) 1,3,5-Trimethylbenzene	12.463	105	2492524	23.879	ppbv	95
69) 1,2,4-Trimethylbenzene	12.711	105	2584003	24.486	ppbv	99
71) Benzyl chloride	12.812	91	1893394	35.821	ppbv	97
72) 1,3-Dichlorobenzene	12.828	146	1908351	26.304	ppbv	99
73) 1,4-Dichlorobenzene	12.867	146	1714779	28.751	ppbv	99
74) sec-Butylbenzene	12.875	105	3602658	22.924	ppbv	99
75) 4-Isopropyltoluene	12.968	119	3510060	23.859	ppbv	99
76) 1,2-Dichlorobenzene	13.092	146	1803781	26.216	ppbv	98
77) n-Butylbenzene	13.232	91	2805249	27.313	ppbv	98
78) 1,2,4-Trichlorobenzene	14.282	180	1349177	39.775	ppbv	97
79) Naphthalene	14.383	128	3216926	41.816	ppbv#	98
80) Hexachlorobutadiene	14.639	225	1838211	24.571	ppbv	99
82] 1,2-Dichlorotetrafluor...	4.394	85	1242446	23.917	ppbv	99
83] Vinyl Chloride(sim)	4.496	62	593649	24.539	ppbv	99
84] Bromomethane(sim)	4.858	94	494074	22.767	ppbv#	98
85] Trichlorofluoromethane...	5.587	101	1467071	24.411	ppbv#	99
86] 1,2-Dichloroethane(sim)	8.059	62	802343	24.616	ppbv	97
87] 1,1,1-Trichloroethane(...	8.224	97	1225933	25.024	ppbv#	99
88] Benzene(sim)	8.502	78	1403860	22.594	ppbv	98
89] Carbon Tetrachloride(sim)	8.600	117	1342929	25.418	ppbv	99
90] 1,1-Dichloroethene(sim)	6.040	61	940656	24.228	ppbv	97
91] Trichlorotrifluoroetha...	6.293	101	1142709	23.819	ppbv#	99
92] Trans-1,2-Dichloroethe...	6.745	61	897755	24.100	ppbv	97
93] 1,1-Dichloroethane(sim)	6.878	63	1103422	24.062	ppbv	100
94] Cis-1,2-Dichloroethene...	7.410	61	852221	24.497	ppbv	97
95] Chloroform(sim)	7.591	83	1111782	24.347	ppbv	100
97] 1,2-dichloropropane(sim)	8.981	63	777536	24.699	ppbv	99
98] Bromodichloromethane(sim)	9.099	83	1193533	24.092	ppbv	99
99] Trichloroethene(sim)	9.119	130	860783	23.947	ppbv	99
100] 1,4-Dioxane(sim)	9.090	88	317376	25.036	ppbv	91
101] cis-1,3-Dichloropropen...	9.599	75	974846	25.680	ppbv	99
102] 1,1,2-Trichloroethane(...	10.004	97	704743	23.930	ppbv	99
103] Dibromochloromethane(sim)	10.415	129	1612021	25.767	ppbv	100
104] 1,2-Dibromoethane(EDB)...	10.560	107	1257068	24.939	ppbv	99
105] Tetrachloroethene(sim)	10.802	166	1189038	23.800	ppbv	100
107] Bromoform(sim)	11.544	173	1574898	23.467	ppbv	99
108] m, p-Xylene(sim)	11.466	91	3760928	38.485	ppbv	98
109] 1,1,2,2-Tetrachloroeth...	11.726	83	1539483	22.048	ppbv	100
112] Benzyl chloride(sim)	12.812	91	1893394	15.742	ppbv	97
113] 1,3-Dichlorobenzene(sim)	12.831	146	2183700	34.215	ppbv	97
114] 1,4-Dichlorobenzene(sim)	12.867	146	1714366	33.787	ppbv	99

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2024\CHEM24\10OCT\18A\
Data File : 1018_11.D
Acq On : 18 Oct 2024 8:39 pm
Operator : Keith
Client ID : ICAL 25
Lab ID : 25 ppb ; T01511
ALS Vial : 12 Sample Multiplier: 1

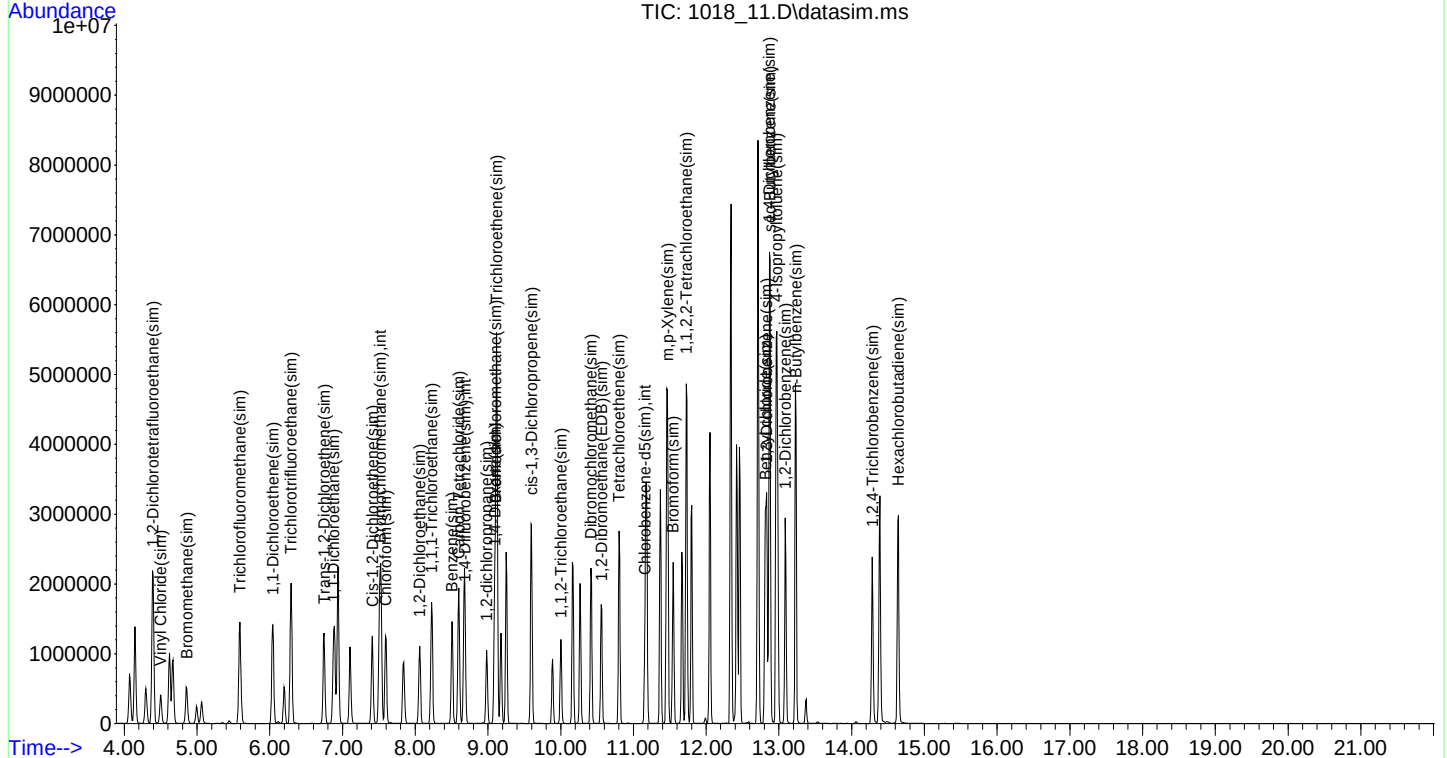
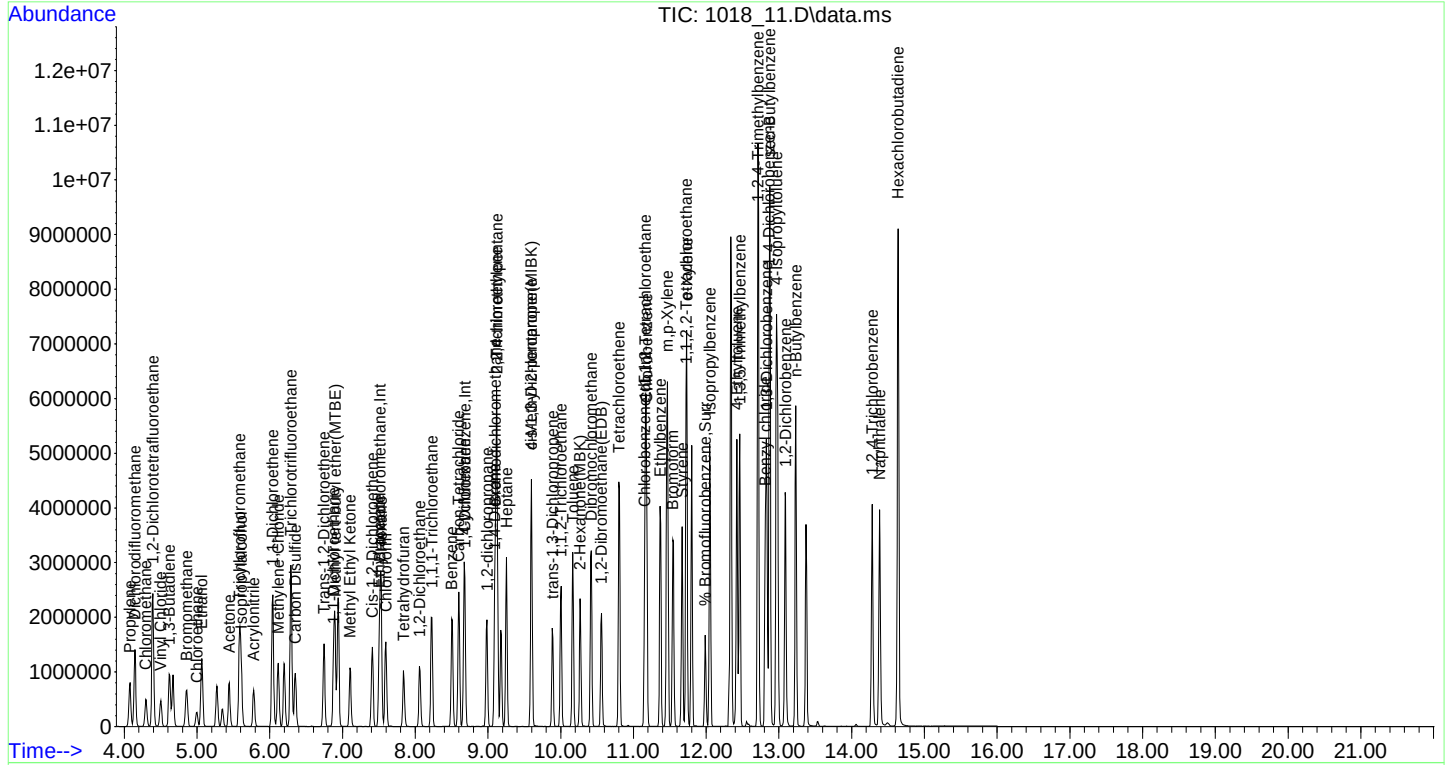
Quant Time: Oct 21 08:50:58 2024
Quant Method : H:\AIR2024\CHEM24\Methods\24_AIR_1018.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Wed Sep 25 09:48:52 2024
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
115]	sec-Butylbenzene(sim)	12.878	105	3893297	21.910	ppbv	99
116]	4-Isopropyltoluene(sim)	12.968	119	3513942	22.861	ppbv	99
117]	1,2-Dichlorobenzene(sim)	13.087	146	1996642	28.811	ppbv	99
118]	n-Butylbenzene(sim)	13.232	91	2805249	31.943	ppbv	98
119]	1,2,4-Trichlorobenzene...	14.285	180	1467758	9.793	ppbv	100
120]	Hexachlorobutadiene(sim)	14.639	225	1840008	24.870	ppbv	98

(#)out of range (m>manual integration reviewed by analyst (+)signals summed

Data Path : H:\AIR2024\CHEM24\10OCT\18A\
Data File : 1018_11.D
Acq On : 18 Oct 2024 8:39 pm
Operator : Keith
Client ID : ICAL 25
Lab ID : 25 ppb ; T01511
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Oct 21 08:50:58 2024
Quant Method : H:\AIR2024\CHEM24\Methods\24_AIR_1018.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Wed Sep 25 09:48:52 2024
Response via : Initial Calibration



Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2024\CHEM24\10OCT\18A\
 Data File : 1018_12.D
 Acq On : 18 Oct 2024 9:20 pm
 Operator : Keith
 Client ID : ICAL 40
 Lab ID : 40 ppb ; T01511
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Oct 21 08:51:07 2024
 Quant Method : H:\AIR2024\CHEM24\Methods\24_AIR_1018.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Wed Sep 25 09:48:52 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	7.523	130	204292	10.000	ng	0.00
37) 1,4-Difluorobenzene	8.684	114	684246	10.000	ng	0.00
54) Chlorobenzene-d5	11.155	82	385341	10.000	ng	0.00
81) Bromochloromethane(sim)	7.518	130	204522	10.000	ng	# 0.00
96) 1,4-Difluorobenzene(sim)	8.684	114	684246	10.000	ng	0.00
106) Chlorobenzene-d5(sim)	11.155	82	385194	10.000	ng	0.00

System Monitoring Compounds						
63) % Bromofluorobenzene	11.989	95	452195	9.111	ppbv	0.00
Spiked Amount	10.000	Range 70 - 130	Recovery	=	91.10%	

Target Compounds						Qvalue
2) Propylene	4.079	41	856502	40.047	ppbv	99
3) Dichlorodifluoromethane	4.145	85	2099745	39.745	ppbv	99
4) Chloromethane	4.303	50	1023068	39.291	ppbv	100
5) 1,2-Dichlorotetrafluor...	4.394	85	2003100	40.075	ppbv	99
6) Vinyl Chloride	4.502	62	908962	40.031	ppbv	97
7) 1,3-Butadiene	4.626	54	779588	39.689	ppbv	94
8) Bromomethane	4.858	94	805829	40.080	ppbv	98
9) Chloroethane	4.999	64	357172	39.961	ppbv	94
11) Ethanol	5.065	45	440796	37.133	ppbv#	93
12) Acetone	5.443	43	1541123	38.180	ppbv	99
13) Trichlorofluoromethane	5.584	101	2399284	41.160	ppbv	100
14) Isopropylalcohol	5.609	45	1939875	38.668	ppbv	98
15) Acrylonitrile	5.778	53	822072	40.678	ppbv	96
16) 1,1-Dichloroethene	6.040	61	1513029	40.183	ppbv	98
17) Methylene Chloride	6.118	49	1287268	37.804	ppbv	95
20) Carbon Disulfide	6.350	76	2166898	39.645	ppbv	99
21) Trichlorotrifluoroethane	6.290	101	1801813	39.452	ppbv	99
22) Trans-1,2-Dichloroethene	6.745	61	1469875	40.799	ppbv	97
23) 1,1-Dichloroethane	6.883	63	1693395	40.083	ppbv	99
24) Methyl tert-butyl ethe...	6.899	73	1947375	40.984	ppbv	98
26) Methyl Ethyl Ketone	7.102	43	2151447	39.851	ppbv	98
27) Cis-1,2-Dichloroethene	7.410	61	1381310	40.730	ppbv	98
28) Hexane	7.531	57	1531811	41.108	ppbv	95
29) Chloroform	7.596	83	1734550	40.031	ppbv	99
30) Ethyl acetate	7.507	61	331125	41.748	ppbv	94
31) Tetrahydrofuran	7.840	42	1069664	41.869	ppbv	97
32) 1,2-Dichloroethane	8.067	62	1286763	40.550	ppbv	97
33) 1,1,1-Trichloroethane	8.229	97	1847121	40.444	ppbv	99
34) Benzene	8.511	78	2291483	39.862	ppbv	99
35) Carbon Tetrachloride	8.597	117	2161208	41.066	ppbv	99
36) Cyclohexane	8.675	84	872665	38.579	ppbv	92
38) 1,2-dichloropropane	8.986	63	1201337	40.942	ppbv	94
39) Bromodichloromethane	9.099	83	1922249	40.326	ppbv	99
40) Trichloroethene	9.116	130	1354551	39.454	ppbv	99
41) 2,2,4-trimethylpentane	9.125	57	4784001	38.903	ppbv	100
42) 1,4-Dioxane	9.099	88	518047	41.932	ppbv	92
44) Heptane	9.255	43	1961994	40.039	ppbv	97
45) cis-1,3-Dichloropropene	9.603	75	1470235	41.409	ppbv	98
46) 4-Methyl-2-pentanone(M...	9.596	43	2491113	39.695	ppbv	99
47) trans-1,3-Dichloropropene	9.892	75	1252103	43.251	ppbv	100
48) 1,1,2-Trichloroethane	10.004	97	1147488	40.554	ppbv	100
49) Toluene	10.166	91	3080140	41.154	ppbv	99

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2024\CHEM24\10OCT\18A\
 Data File : 1018_12.D
 Acq On : 18 Oct 2024 9:20 pm
 Operator : Keith
 Client ID : ICAL 40
 Lab ID : 40 ppb ; T01511
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Oct 21 08:51:07 2024
 Quant Method : H:\AIR2024\CHEM24\Methods\24_AIR_1018.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Wed Sep 25 09:48:52 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
50) Dibromochloromethane	10.419	129	2619809	41.736	ppbv	99
51) 2-Hexanone(MBK)	10.272	43	2396607	44.499	ppbv	98
52) 1,2-Dibromoethane(EDB)	10.560	107	2045368	41.534	ppbv	99
53) Tetrachloroethene	10.807	166	1892435	40.923	ppbv	98
55) 1,1,1,2-Tetrachloroethane	11.170	131	1687782	33.729	ppbv	99
56) Chlorobenzene	11.185	112	2766659	33.744	ppbv	93
57) Ethylbenzene	11.375	91	3952028	33.692	ppbv	99
58) m, p-Xylene	11.466	91	5956686	67.577	ppbv	98
59) Bromoform	11.549	173	2632849	35.020	ppbv	99
60) Styrene	11.670	104	2457282	36.428	ppbv	98
61) 1,1,2,2-Tetrachloroethane	11.731	83	2363961	33.078	ppbv	96
62) o-Xylene	11.731	91	3089786	32.867	ppbv	100
65) Isopropylbenzene	12.049	105	4586877	32.952	ppbv	98
67) 4-Ethyltoluene	12.424	105	5024891	37.698	ppbv	98
68) 1,3,5-Trimethylbenzene	12.463	105	3651347	31.857	ppbv	98
69) 1,2,4-Trimethylbenzene	12.719	105	4028706	34.767	ppbv	99
71) Benzyl chloride	12.812	91	3144558	54.179	ppbv	97
72) 1,3-Dichlorobenzene	12.836	146	3011363	37.801	ppbv	99
73) 1,4-Dichlorobenzene	12.875	146	2808281	42.881	ppbv	99
74) sec-Butylbenzene	12.875	105	5548699	32.155	ppbv	99
75) 4-Isopropyltoluene	12.968	119	5451190	33.745	ppbv	99
76) 1,2-Dichlorobenzene	13.092	146	2944014	38.968	ppbv	98
77) n-Butylbenzene	13.232	91	4405018	39.059	ppbv	97
78) 1,2,4-Trichlorobenzene	14.282	180	2328391	54.398	ppbv	97
79) Naphthalene	14.383	128	5301006	56.799	ppbv#	98
80) Hexachlorobutadiene	14.639	225	2888980	35.168	ppbv	99
82] 1,2-Dichlorotetrafluor...	4.394	85	1999889	38.582	ppbv	99
83] Vinyl Chloride(sim)	4.504	62	955551	39.586	ppbv	99
84] Bromomethane(sim)	4.858	94	805829	37.215	ppbv#	98
85] Trichlorofluoromethane...	5.587	101	2326370	38.794	ppbv#	99
86] 1,2-Dichloroethane(sim)	8.067	62	1286763	39.565	ppbv	97
87] 1,1,1-Trichloroethane(...	8.224	97	1970209	40.304	ppbv#	99
88] Benzene(sim)	8.511	78	2291472	36.960	ppbv	99
89] Carbon Tetrachloride(sim)	8.600	117	2170679	41.175	ppbv	99
90] 1,1-Dichloroethene(sim)	6.040	61	1513029	39.057	ppbv	98
91] Trichlorotrifluoroetha...	6.293	101	1838317	38.403	ppbv#	99
92] Trans-1,2-Dichloroethe...	6.745	61	1469875	39.546	ppbv	97
93] 1,1-Dichloroethane(sim)	6.877	63	1791121	39.145	ppbv	100
94] Cis-1,2-Dichloroethene...	7.410	61	1381310	39.793	ppbv	98
95] Chloroform(sim)	7.599	83	1796285	39.423	ppbv	100
97] 1,2-dichloropropane(sim)	8.981	63	1268548	40.751	ppbv	99
98] Bromodichloromethane(sim)	9.099	83	1922249	39.239	ppbv	99
99] Trichloroethene(sim)	9.119	130	1371570	38.587	ppbv	99
100] 1,4-Dioxane(sim)	9.099	88	518047	41.326	ppbv	92
101] cis-1,3-Dichloropropen...	9.599	75	1572190	41.883	ppbv	99
102] 1,1,2-Trichloroethane(...	10.004	97	1147488	39.404	ppbv	99
103] Dibromochloromethane(sim)	10.422	129	2602029	42.061	ppbv	100
104] 1,2-Dibromoethane(EDB)...	10.560	107	2045368	41.036	ppbv	99
105] Tetrachloroethene(sim)	10.802	166	1904529	38.551	ppbv	100
107] Bromoform(sim)	11.552	173	2543635	34.530	ppbv	99
108] m, p-Xylene(sim)	11.466	91	5963010	55.591	ppbv	98
109] 1,1,2,2-Tetrachloroeth...	11.726	83	2433580	31.753	ppbv	99
112] Benzyl chloride(sim)	12.812	91	3144558	20.019	ppbv	97
113] 1,3-Dichlorobenzene(sim)	12.831	146	3413293	48.723	ppbv	99
114] 1,4-Dichlorobenzene(sim)	12.875	146	2806599	50.392	ppbv	99

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2024\CHEM24\10OCT\18A\
Data File : 1018_12.D
Acq On : 18 Oct 2024 9:20 pm
Operator : Keith
Client ID : ICAL 40
Lab ID : 40 ppb ; T01511
ALS Vial : 13 Sample Multiplier: 1

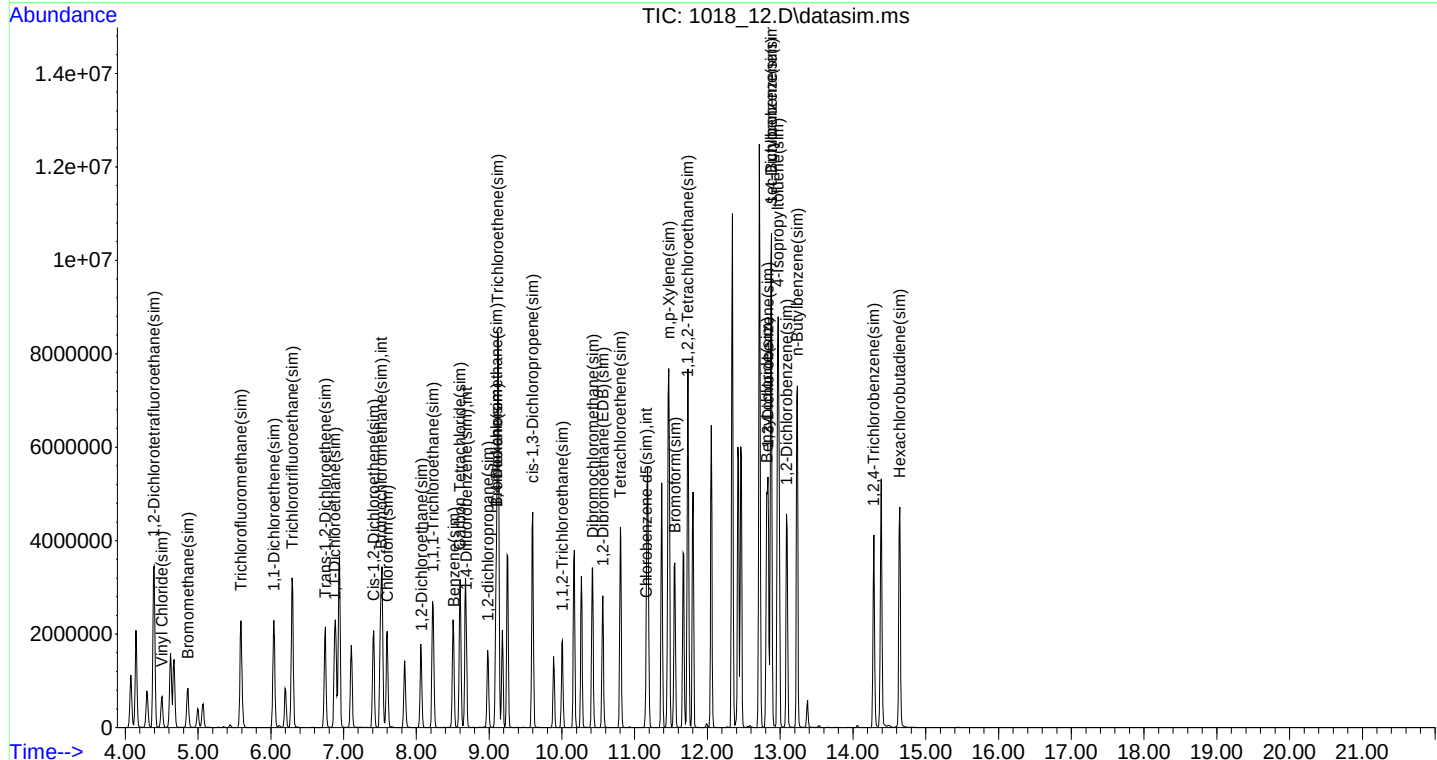
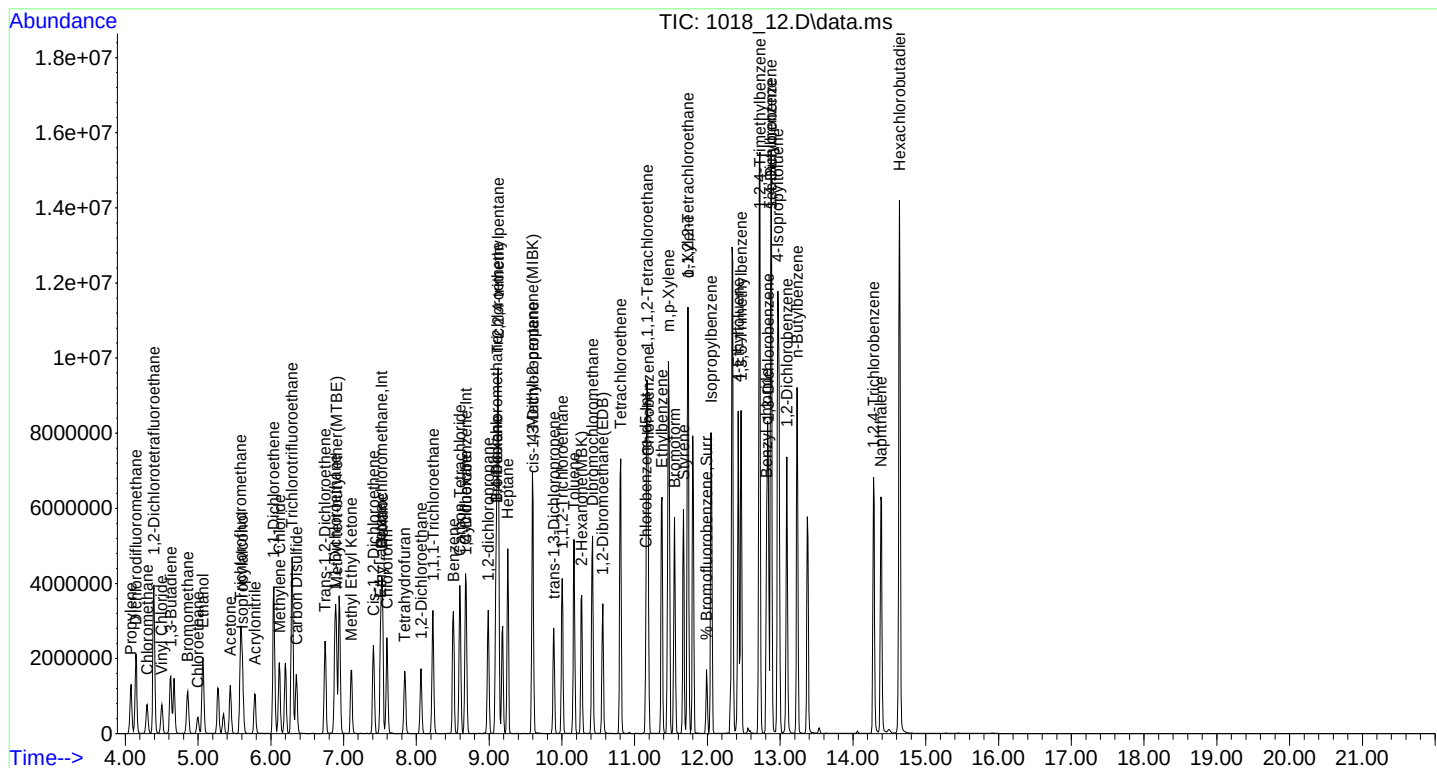
Quant Time: Oct 21 08:51:07 2024
Quant Method : H:\AIR2024\CHEM24\Methods\24_AIR_1018.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Wed Sep 25 09:48:52 2024
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
115]	sec-Butylbenzene(sim)	12.878	105	5881885	30.157	ppbv	98
116]	4-Isopropyltoluene(sim)	12.968	119	5452898	32.319	ppbv	99
117]	1,2-Dichlorobenzene(sim)	13.087	146	3236318	42.545	ppbv	99
118]	n-Butylbenzene(sim)	13.232	91	4405018	45.697	ppbv	97
119]	1,2,4-Trichlorobenzene...	14.285	180	2522288	12.325	ppbv	100
120]	Hexachlorobutadiene(sim)	14.639	225	2891005	35.600	ppbv	99

(#)out of range (m>manual integration reviewed by analyst (+)signals summed

Data Path : H:\AIR2024\CHEM24\10OCT\18A\
Data File : 1018_12.D
Acq On : 18 Oct 2024 9:20 pm
Operator : Keith
Client ID : ICAL 40
Lab ID : 40 ppb ; T01511
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Oct 21 08:51:07 2024
Quant Method : H:\AIR2024\CHEM24\Methods\24_AIR_1018.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Wed Sep 25 09:48:52 2024
Response via : Initial Calibration



Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2024\CHEM24\10OCT\18A\
 Data File : 1018_13.D
 Acq On : 18 Oct 2024 9:58 pm
 Operator : Keith
 Client ID : ICAL 1
 Lab ID : 1ppb ; T01509 ; AIR36
 ALS Vial : 16 Sample Multiplier: 1

Quant Time: Oct 21 09:05:23 2024
 Quant Method : H:\AIR2024\CHEM24\Methods\24_AIR_1018.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Mon Oct 21 10:04:28 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	7.515	130	243686	10.000	ng	0.00
37) 1,4-Difluorobenzene	8.684	114	812904	10.000	ng	0.00
54) Chlorobenzene-d5	11.155	82	347919	10.000	ng	0.00
81) Bromochloromethane(sim)	7.518	130	242430	10.000	ng	# 0.00
96) 1,4-Difluorobenzene(sim)	8.684	114	812904	10.000	ng	0.00
106) Chlorobenzene-d5(sim)	11.155	82	347919	10.000	ng	0.00

System Monitoring Compounds

63) % Bromofluorobenzene	11.989	95	456556	10.140	ppbv	0.00
Spiked Amount	10.000	Range 70 - 130	Recovery	=	101.40%	

Target Compounds

						Qvalue
2) Propylene	4.079	41	23224	0.910	ppbv	98
3) Dichlorodifluoromethane	4.145	85	57792	0.917	ppbv	98
4) Chloromethane	4.303	50	28690	0.924	ppbv	98
5) 1,2-Dichlorotetrafluor...	4.394	85	56717	0.951	ppbv	98
6) Vinyl Chloride	4.502	62	25965	0.959	ppbv	99
7) 1,3-Butadiene	4.626	54	21867	0.933	ppbv#	94
8) Bromomethane	4.858	94	23074	0.962	ppbv	99
9) Chloroethane	4.999	64	10333	0.969	ppbv	97
11) Ethanol	5.074	45	13463	0.951	ppbv#	89
12) Acetone	5.455	43	44867	0.932	ppbv	99
13) Trichlorofluoromethane	5.584	101	64656	0.930	ppbv	99
14) Isopropylalcohol	5.627	45	61292	1.024	ppbv	98
15) Acrylonitrile	5.784	53	22602	0.938	ppbv	96
16) 1,1-Dichloroethene	6.040	61	43551	0.970	ppbv	98
17) Methylene Chloride	6.118	49	38941	0.959	ppbv	95
20) Carbon Disulfide	6.350	76	63311	0.971	ppbv	99
21) Trichlorotrifluoroethane	6.290	101	52993	0.973	ppbv	97
22) Trans-1,2-Dichloroethene	6.745	61	40939	0.953	ppbv	98
23) 1,1-Dichloroethane	6.883	63	47883	0.950	ppbv	100
24) Methyl tert-butyl ethe...	6.915	73	55161	0.973	ppbv	98
26) Methyl Ethyl Ketone	7.118	43	61661	0.957	ppbv	98
27) Cis-1,2-Dichloroethene	7.410	61	39007	0.964	ppbv	99
28) Hexane	7.531	57	42224	0.950	ppbv	100
29) Chloroform	7.596	83	50598	0.979	ppbv	98
30) Ethyl acetate	7.515	61	9119	0.964	ppbv	97
31) Tetrahydrofuran	7.856	42	28598	0.938	ppbv	97
32) 1,2-Dichloroethane	8.059	62	36352	0.960	ppbv	98
33) 1,1,1-Trichloroethane	8.221	97	50953	0.935	ppbv	97
34) Benzene	8.502	78	65560	0.956	ppbv	99
35) Carbon Tetrachloride	8.597	117	59528	0.948	ppbv	99
36) Cyclohexane	8.675	84	25382	0.941	ppbv	97
38) 1,2-dichloropropane	8.986	63	32850	0.942	ppbv	96
39) Bromodichloromethane	9.090	83	52869	0.934	ppbv	99
40) Trichloroethene	9.116	130	38549	0.945	ppbv	98
41) 2,2,4-trimethylpentane	9.125	57	141694	0.970	ppbv	99
42) 1,4-Dioxane	9.107	88	15577	1.061	ppbv	92
44) Heptane	9.254	43	55654	0.956	ppbv	96
45) cis-1,3-Dichloropropene	9.596	75	40142	0.952	ppbv	97
46) 4-Methyl-2-pentanone(M...	9.603	43	74160	0.995	ppbv	99
47) trans-1,3-Dichloropropene	9.884	75	31945	0.929	ppbv	99
48) 1,1,2-Trichloroethane	10.004	97	31901	0.949	ppbv	97
49) Toluene	10.166	91	86375	0.971	ppbv	99

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2024\CHEM24\10OCT\18A\
 Data File : 1018_13.D
 Acq On : 18 Oct 2024 9:58 pm
 Operator : Keith
 Client ID : ICAL 1
 Lab ID : 1ppb ; T01509 ; AIR36
 ALS Vial : 16 Sample Multiplier: 1

Quant Time: Oct 21 09:05:23 2024
 Quant Method : H:\AIR2024\CHEM24\Methods\24_AIR_1018.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Mon Oct 21 10:04:28 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
50) Dibromochloromethane	10.412	129	69294	0.929	ppbv	100
51) 2-Hexanone(MBK)	10.279	43	63744	0.996	ppbv	95
52) 1,2-Dibromoethane(EDB)	10.553	107	55711	0.952	ppbv	99
53) Tetrachloroethene	10.799	166	52007	0.947	ppbv	98
55) 1,1,1,2-Tetrachloroethane	11.162	131	45041	0.997	ppbv	99
56) Chlorobenzene	11.177	112	74455	1.006	ppbv	99
57) Ethylbenzene	11.367	91	106486	1.005	ppbv	99
58) m, p-Xylene	11.466	91	164973	2.073	ppbv	99
59) Bromoform	11.541	173	67950	1.001	ppbv	100
60) Styrene	11.670	104	59867	0.983	ppbv	97
61) 1,1,2,2-Tetrachloroethane	11.723	83	68066	1.055	ppbv	95
62) o-Xylene	11.731	91	86079	1.014	ppbv	98
65) Isopropylbenzene	12.049	105	128196	1.020	ppbv	99
67) 4-Ethyltoluene	12.424	105	124901	1.038	ppbv	98
68) 1,3,5-Trimethylbenzene	12.463	105	111127	1.074	ppbv	95
69) 1,2,4-Trimethylbenzene	12.711	105	109034	1.042	ppbv	99
71) Benzyl chloride	12.812	91	46241	0.715	ppbv	99
72) 1,3-Dichlorobenzene	12.828	146	74170	1.031	ppbv	99
73) 1,4-Dichlorobenzene	12.867	146	59113	1.000	ppbv	98
74) sec-Butylbenzene	12.875	105	163643	1.050	ppbv	99
75) 4-Isopropyltoluene	12.960	119	152689	1.047	ppbv	99
76) 1,2-Dichlorobenzene	13.084	146	70936	1.040	ppbv	98
77) n-Butylbenzene	13.232	91	99378	0.976	ppbv	99
78) 1,2,4-Trichlorobenzene	14.282	180	36565	1.038	ppbv	97
79) Naphthalene	14.383	128	97152	0.995	ppbv#	99
80) Hexachlorobutadiene	14.639	225	81178	1.094	ppbv	98
82] 1,2-Dichlorotetrafluor...	4.394	85	56717	0.923	ppbv	98
83] Vinyl Chloride(sim)	4.504	62	27544	0.963	ppbv	99
84] Bromomethane(sim)	4.858	94	23074	0.899	ppbv	99
85] Trichlorofluoromethane...	5.587	101	67469	0.949	ppbv#	100
86] 1,2-Dichloroethane(sim)	8.059	62	36352	0.943	ppbv	98
87] 1,1,1-Trichloroethane(...	8.224	97	55252	0.954	ppbv#	99
88] Benzene(sim)	8.502	78	65560	0.892	ppbv	99
89] Carbon Tetrachloride(sim)	8.600	117	59936	0.959	ppbv	100
90] 1,1-Dichloroethene(sim)	6.040	61	43551	0.948	ppbv	98
91] Trichlorotrifluoroetha...	6.293	101	54383	0.958	ppbv#	100
92] Trans-1,2-Dichloroethe...	6.745	61	40939	0.929	ppbv	98
93] 1,1-Dichloroethane(sim)	6.877	63	51326	0.946	ppbv	100
94] Cis-1,2-Dichloroethene...	7.410	61	39007	0.948	ppbv	99
95] Chloroform(sim)	7.591	83	51730	0.958	ppbv	99
97] 1,2-dichloropropane(sim)	8.981	63	35044	0.948	ppbv	100
98] Bromodichloromethane(sim)	9.090	83	52869	0.908	ppbv	99
99] Trichloroethene(sim)	9.119	130	39941	0.946	ppbv	99
100] 1,4-Dioxane(sim)	9.107	88	15577	1.046	ppbv	92
101] cis-1,3-Dichloropropen...	9.599	75	43225	0.969	ppbv	99
102] 1,1,2-Trichloroethane(...	10.004	97	31901	0.922	ppbv	97
103] Dibromochloromethane(sim)	10.415	129	69130	0.941	ppbv	100
104] 1,2-Dibromoethane(EDB)...	10.553	107	55711	0.941	ppbv	99
105] Tetrachloroethene(sim)	10.802	166	53225	0.907	ppbv	100
107] Bromoform(sim)	11.544	173	65135	0.979	ppbv	100
108] m, p-Xylene(sim)	11.466	91	164973	1.703	ppbv	99
109] 1,1,2,2-Tetrachloroeth...	11.726	83	70199	1.014	ppbv	100
112] Benzyl chloride(sim)	12.812	91	46241	1.090	ppbv	99
113] 1,3-Dichlorobenzene(sim)	12.831	146	76600	1.211	ppbv	100
114] 1,4-Dichlorobenzene(sim)	12.867	146	59113	1.175	ppbv	98

Data Path : H:\AIR2024\CHEM24\10OCT\18A\
Data File : 1018_13.D
Acq On : 18 Oct 2024 9:58 pm
Operator : Keith
Client ID : ICAL 1
Lab ID : 1ppb ; T01509 ; AIR36
ALS Vial : 16 Sample Multiplier: 1

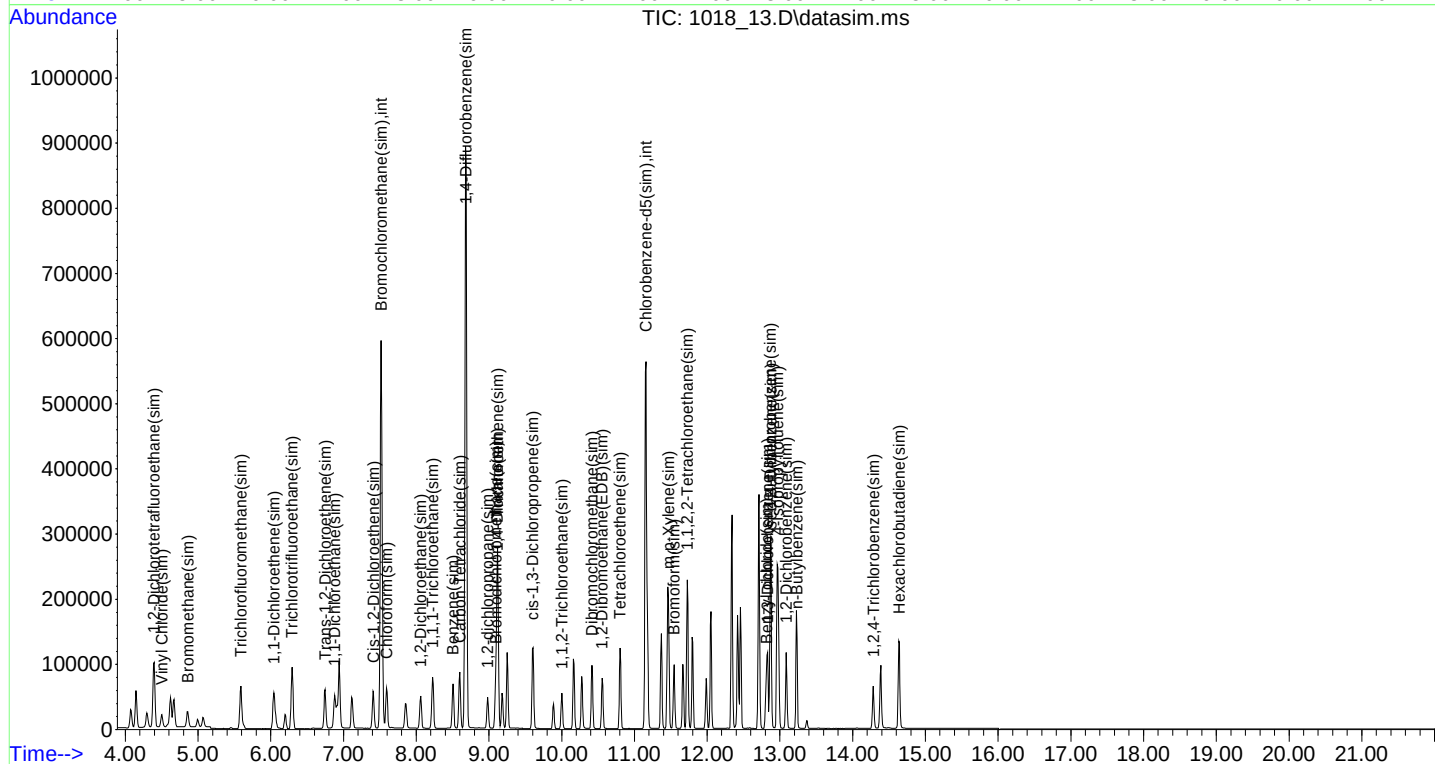
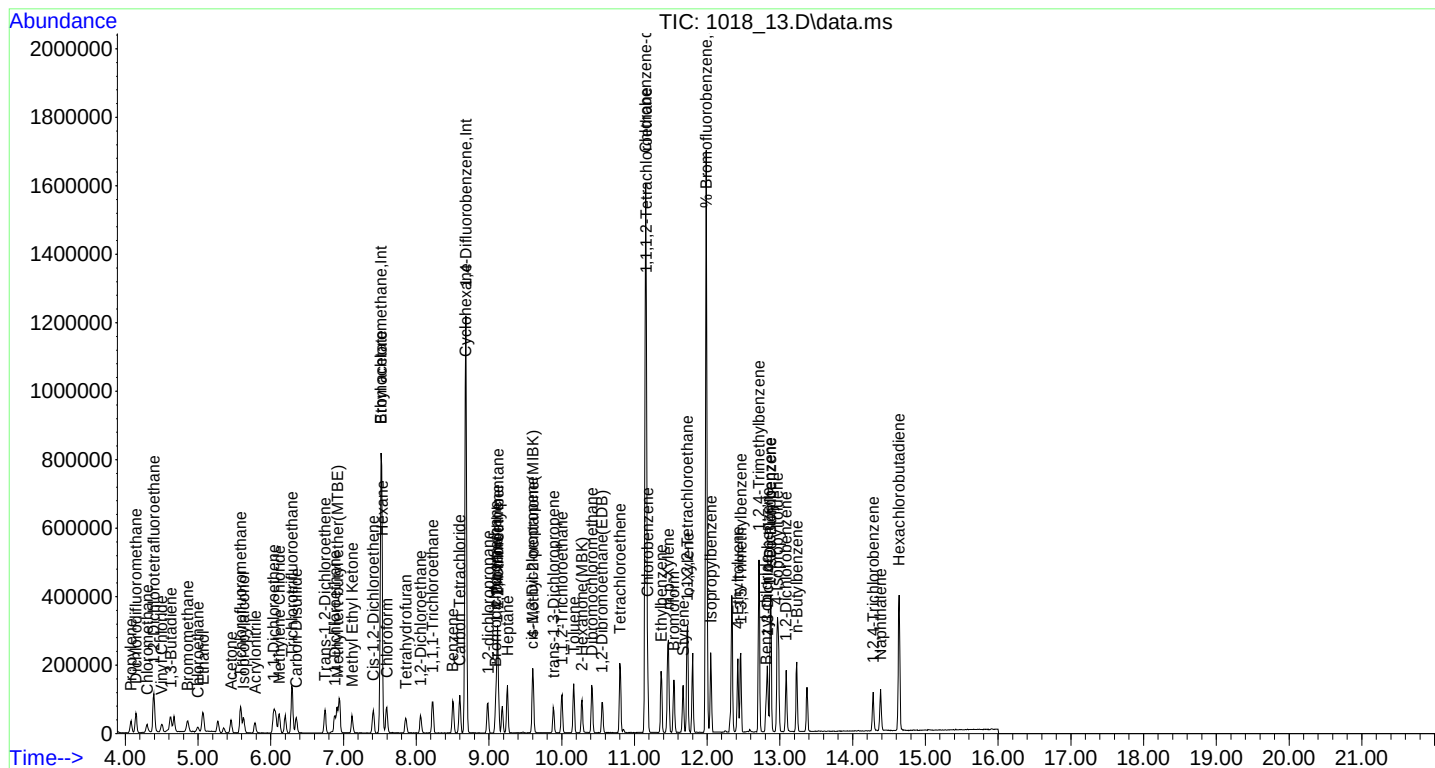
Quant Time: Oct 21 09:05:23 2024
Quant Method : H:\AIR2024\CHEM24\Methods\24_AIR_1018.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Mon Oct 21 10:04:28 2024
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
115]	sec-Butylbenzene(sim)	12.877	105	179421	1.018	ppbv	100
116]	4-Isopropyltoluene(sim)	12.960	119	152689	1.002	ppbv	99
117]	1,2-Dichlorobenzene(sim)	13.087	146	79210	1.153	ppbv	100
118]	n-Butylbenzene(sim)	13.232	91	99378	1.141	ppbv	99
119]	1,2,4-Trichlorobenzene...	14.285	180	41015	1.019	ppbv	99
120]	Hexachlorobutadiene(sim)	14.639	225	81186	1.107	ppbv	96

(#)out of range (m>manual integration reviewed by analyst (+)signals summed

Data Path : H:\AIR2024\CHEM24\10OCT\18A\
Data File : 1018_13.D
Acq On : 18 Oct 2024 9:58 pm
Operator : Keith
Client ID : ICAL 1
Lab ID : 1ppb ; T01509 ; AIR36
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Oct 21 09:05:23 2024
Quant Method : H:\AIR2024\CHEM24\Methods\24_AIR_1018.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Mon Oct 21 10:04:28 2024
Response via : Initial Calibration



Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2024\CHEM24\10OCT\18A\
 Data File : 1018_14.D
 Acq On : 18 Oct 2024 10:33 pm
 Operator : Keith
 Client ID : ICAL 10
 Lab ID : 10ppb ; T01509 ; AIR36
 ALS Vial : 16 Sample Multiplier: 1

Quant Time: Oct 21 09:05:49 2024
 Quant Method : H:\AIR2024\CHEM24\Methods\24_AIR_1018.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Mon Oct 21 10:04:28 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	7.515	130	222224	10.000	ng	0.00
37) 1,4-Difluorobenzene	8.684	114	755049	10.000	ng	0.00
54) Chlorobenzene-d5	11.155	82	347760	10.000	ng	0.00
81) Bromochloromethane(sim)	7.518	130	221661	10.000	ng	# 0.00
96) 1,4-Difluorobenzene(sim)	8.684	114	755049	10.000	ng	0.00
106) Chlorobenzene-d5(sim)	11.155	82	347760	10.000	ng	0.00

System Monitoring Compounds

63) % Bromofluorobenzene	11.989	95	458638	10.191	ppbv	0.00
Spiked Amount	10.000	Range 70 - 130	Recovery	= 101.90%		

Target Compounds

						Qvalue
2) Propylene	4.078	41	221166	9.506	ppbv	98
3) Dichlorodifluoromethane	4.145	85	580191	10.096	ppbv	99
4) Chloromethane	4.294	50	275694	9.734	ppbv	99
5) 1,2-Dichlorotetrafluor...	4.394	85	535298	9.845	ppbv	99
6) Vinyl Chloride	4.501	62	243224	9.847	ppbv	98
7) 1,3-Butadiene	4.617	54	208651	9.765	ppbv	94
8) Bromomethane	4.858	94	211450	9.668	ppbv	98
9) Chloroethane	4.991	64	94222	9.691	ppbv	95
11) Ethanol	5.065	45	111568	8.640	ppbv	96
12) Acetone	5.443	43	417660	9.512	ppbv	98
13) Trichlorofluoromethane	5.584	101	615340	9.704	ppbv	99
14) Isopropylalcohol	5.609	45	542764	9.946	ppbv	97
15) Acrylonitrile	5.778	53	213870	9.729	ppbv	96
16) 1,1-Dichloroethene	6.040	61	406057	9.914	ppbv	98
17) Methylene Chloride	6.112	49	348836	9.418	ppbv	95
20) Carbon Disulfide	6.350	76	581348	9.778	ppbv	99
21) Trichlorotrifluoroethane	6.290	101	483326	9.729	ppbv	98
22) Trans-1,2-Dichloroethene	6.745	61	384106	9.801	ppbv	97
23) 1,1-Dichloroethane	6.875	63	450481	9.803	ppbv	99
24) Methyl tert-butyl ethe...	6.899	73	511884	9.904	ppbv	99
26) Methyl Ethyl Ketone	7.102	43	567679	9.666	ppbv	98
27) Cis-1,2-Dichloroethene	7.410	61	359113	9.734	ppbv	99
28) Hexane	7.531	57	401891	9.915	ppbv	96
29) Chloroform	7.596	83	457796	9.713	ppbv	99
30) Ethyl acetate	7.507	61	87794	10.176	ppbv	94
31) Tetrahydrofuran	7.840	42	276887	9.963	ppbv	97
32) 1,2-Dichloroethane	8.059	62	340138	9.854	ppbv	97
33) 1,1,1-Trichloroethane	8.221	97	490442	9.872	ppbv	99
34) Benzene	8.502	78	607605	9.717	ppbv	99
35) Carbon Tetrachloride	8.597	117	559235	9.769	ppbv	99
36) Cyclohexane	8.675	84	231521	9.409	ppbv	92
38) 1,2-dichloropropane	8.986	63	311923	9.633	ppbv	95
39) Bromodichloromethane	9.090	83	508540	9.668	ppbv	99
40) Trichloroethene	9.116	130	363523	9.596	ppbv	99
41) 2,2,4-trimethylpentane	9.125	57	1327750	9.785	ppbv	100
42) 1,4-Dioxane	9.099	88	136099	9.983	ppbv	91
44) Heptane	9.255	43	521343	9.641	ppbv	96
45) cis-1,3-Dichloropropene	9.596	75	385170	9.831	ppbv	97
46) 4-Methyl-2-pentanone(M...	9.596	43	661708	9.555	ppbv	99
47) trans-1,3-Dichloropropene	9.884	75	315535	9.877	ppbv	99
48) 1,1,2-Trichloroethane	10.004	97	301984	9.672	ppbv	99
49) Toluene	10.166	91	809790	9.805	ppbv	99

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2024\CHEM24\10OCT\18A\
 Data File : 1018_14.D
 Acq On : 18 Oct 2024 10:33 pm
 Operator : Keith
 Client ID : ICAL 10
 Lab ID : 10ppb ; T01509 ; AIR36
 ALS Vial : 16 Sample Multiplier: 1

Quant Time: Oct 21 09:05:49 2024
 Quant Method : H:\AIR2024\CHEM24\Methods\24_AIR_1018.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Mon Oct 21 10:04:28 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
50) Dibromochloromethane	10.412	129	668218	9.647	ppbv	99
51) 2-Hexanone(MBK)	10.265	43	601696	10.124	ppbv	97
52) 1,2-Dibromoethane(EDB)	10.560	107	531227	9.776	ppbv	99
53) Tetrachloroethene	10.799	166	490481	9.612	ppbv	98
55) 1,1,1,2-Tetrachloroethane	11.162	131	434398	9.619	ppbv	99
56) Chlorobenzene	11.177	112	719448	9.723	ppbv	93
57) Ethylbenzene	11.367	91	1033252	9.761	ppbv	99
58) m, p-Xylene	11.466	91	1594037	20.038	ppbv	99
59) Bromoform	11.541	173	655587	9.662	ppbv	99
60) Styrene	11.670	104	624741	10.262	ppbv	98
61) 1,1,2,2-Tetrachloroethane	11.723	83	628996	9.753	ppbv	96
62) o-Xylene	11.731	91	816711	9.626	ppbv	100
65) Isopropylbenzene	12.049	105	1215446	9.675	ppbv	99
67) 4-Ethyltoluene	12.424	105	1224378	10.178	ppbv	96
68) 1,3,5-Trimethylbenzene	12.463	105	1023484	9.895	ppbv	96
69) 1,2,4-Trimethylbenzene	12.711	105	1063482	10.169	ppbv	99
71) Benzyl chloride	12.812	91	691647	10.363	ppbv	98
72) 1,3-Dichlorobenzene	12.828	146	764863	10.639	ppbv	99
73) 1,4-Dichlorobenzene	12.867	146	646973	10.946	ppbv	99
74) sec-Butylbenzene	12.875	105	1515805	9.733	ppbv	99
75) 4-Isopropyltoluene	12.960	119	1442347	9.893	ppbv	99
76) 1,2-Dichlorobenzene	13.085	146	713762	10.468	ppbv	98
77) n-Butylbenzene	13.232	91	1112164	10.927	ppbv	99
78) 1,2,4-Trichlorobenzene	14.282	180	386283	9.754	ppbv	96
79) Naphthalene	14.383	128	1040271	10.020	ppbv#	99
80) Hexachlorobutadiene	14.639	225	737669	9.950	ppbv	98
82] 1,2-Dichlorotetrafluor...	4.394	85	534456	9.514	ppbv	99
83] Vinyl Chloride(sim)	4.496	62	257273	9.834	ppbv	99
84] Bromomethane(sim)	4.858	94	211450	9.010	ppbv	98
85] Trichlorofluoromethane...	5.587	101	634673	9.765	ppbv#	99
86] 1,2-Dichloroethane(sim)	8.059	62	340138	9.650	ppbv	97
87] 1,1,1-Trichloroethane(...	8.224	97	520982	9.834	ppbv#	99
88] Benzene(sim)	8.502	78	607605	9.043	ppbv	99
89] Carbon Tetrachloride(sim)	8.600	117	565192	9.892	ppbv	100
90] 1,1-Dichloroethene(sim)	6.040	61	406057	9.671	ppbv	98
91] Trichlorotrifluoroetha...	6.293	101	497597	9.591	ppbv#	100
92] Trans-1,2-Dichloroethe...	6.745	61	384106	9.535	ppbv	97
93] 1,1-Dichloroethane(sim)	6.877	63	477782	9.635	ppbv	100
94] Cis-1,2-Dichloroethene...	7.410	61	359113	9.545	ppbv	99
95] Chloroform(sim)	7.591	83	476440	9.648	ppbv	100
97] 1,2-dichloropropane(sim)	8.981	63	331926	9.663	ppbv	99
98] Bromodichloromethane(sim)	9.090	83	508540	9.408	ppbv	99
99] Trichloroethene(sim)	9.119	130	368852	9.404	ppbv	99
100] 1,4-Dioxane(sim)	9.099	88	136099	9.839	ppbv	91
101] cis-1,3-Dichloropropen...	9.599	75	415417	10.029	ppbv	99
102] 1,1,2-Trichloroethane(...	10.004	97	301984	9.397	ppbv	99
103] Dibromochloromethane(sim)	10.415	129	666817	9.768	ppbv	100
104] 1,2-Dibromoethane(EDB)...	10.560	107	531227	9.658	ppbv	99
105] Tetrachloroethene(sim)	10.802	166	497061	9.118	ppbv	100
107] Bromoform(sim)	11.544	173	629862	9.471	ppbv	100
108] m, p-Xylene(sim)	11.466	91	1598330	16.505	ppbv	99
109] 1,1,2,2-Tetrachloroeth...	11.726	83	649348	9.385	ppbv	100
112] Benzyl chloride(sim)	12.812	91	691647	7.220	ppbv	98
113] 1,3-Dichlorobenzene(sim)	12.831	146	805607	12.737	ppbv	99
114] 1,4-Dichlorobenzene(sim)	12.867	146	646973	12.867	ppbv	99

Data Path : H:\AIR2024\CHEM24\10OCT\18A\
Data File : 1018_14.D
Acq On : 18 Oct 2024 10:33 pm
Operator : Keith
Client ID : ICAL 10
Lab ID : 10ppb ; T01509 ; AIR36
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Oct 21 09:05:49 2024
Quant Method : H:\AIR2024\CHEM24\Methods\24_AIR_1018.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Mon Oct 21 10:04:28 2024
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
115]	sec-Butylbenzene(sim)	12.878	105	1666937	9.467	ppbv	100
116]	4-Isopropyltoluene(sim)	12.960	119	1440393	9.456	ppbv	99
117]	1,2-Dichlorobenzene(sim)	13.087	146	794531	11.569	ppbv	100
118]	n-Butylbenzene(sim)	13.232	91	1112164	12.779	ppbv	99
119]	1,2,4-Trichlorobenzene...	14.285	180	421272	3.469	ppbv	100
120]	Hexachlorobutadiene(sim)	14.639	225	735563	10.033	ppbv	97

(#)out of range (m>manual integration reviewed by analyst (+)signals summed

3
AIR ICV RECOVERY

Lab Name: Phoenix Environmental Labs Client: AMC-ENG

Lab Code: Phoenix Case No: _____ SAS No: _____ SDG No GCS16244

ICV - Client Id: ICV_CHEM24_1018

COMPOUND	SPIKE ADDED (ppbv)		ICV CONCENTRATION (ppbv)	ICV % REC #	QC. LIMITS REC.	
Propylene	10		9.858	99	70	130
Dichlorodifluoromethane	10		10.42	104	70	130
Chloromethane	10		10.02	100	70	130
1,2-Dichlorotetrafluoroethane	10		10.29	103	70	130
Vinyl Chloride	10		10.19	102	70	130
1,3-Butadiene	10		10.08	101	70	130
Bromomethane	10		9.910	99	70	130
Chloroethane	10		9.980	100	70	130
Ethanol	10		6.160	62 *	70	130
Acetone	10		9.813	98	70	130
Trichlorofluoromethane	10		10.06	101	70	130
Isopropylalcohol	10		9.888	99	70	130
Acrylonitrile	10		9.848	98	70	130
1,1-Dichloroethene	10		10.34	103	70	130
Methylene Chloride	10		9.663	97	70	130
Carbon Disulfide	10		10.20	102	70	130
Trichlorotrifluoroethane	10		10.27	103	70	130
Trans-1,2-Dichloroethene	10		10.17	102	70	130
1,1-Dichloroethane	10		10.21	102	70	130
Methyl tert-butyl ether(MTBE)	10		10.34	103	70	130
Methyl Ethyl Ketone	10		10.04	100	70	130
Cis-1,2-Dichloroethene	10		10.22	102	70	130
Hexane	10		10.46	105	70	130
Chloroform	10		10.13	101	70	130
Ethyl acetate	10		12.98	130	70	130
Tetrahydrofuran	10		10.42	104	70	130
1,2-Dichloroethane	10		10.15	102	70	130
1,1,1-Trichloroethane	10		10.16	102	70	130
Benzene	10		10.08	101	70	130
Carbon Tetrachloride	10		10.13	101	70	130
Cyclohexane	10		9.711	97	70	130
1,2-dichloropropane	10		10.03	100	70	130
Bromodichloromethane	10		10.11	101	70	130
Trichloroethene	10		10.16	102	70	130
2,2,4-trimethylpentane	10		10.08	101	70	130
1,4-Dioxane	10		10.57	106	70	130
Heptane	10		10.11	101	70	130
cis-1,3-Dichloropropene	10		10.38	104	70	130
4-Methyl-2-pentanone(MIBK)	10		10.37	104	70	130
trans-1,3-Dichloropropene	10		10.30	103	70	130
1,1,2-Trichloroethane	10		10.23	102	70	130
Toluene	10		10.41	104	70	130
Dibromochloromethane	10		10.32	103	70	130
2-Hexanone(MBK)	10		10.85	109	70	130

FORM III AIR

Data Path : H:\AIR2024\CHEM24\10OCT\18A\
 Data File : 1018_15.D
 Acq On : 18 Oct 2024 11:10 pm
 Operator : Keith
 Client ID : ICV_CHEM24_1018
 Lab ID : 10ppb lcs ; T01511
 ALS Vial : 17 Sample Multiplier: 1

Quant Time: Oct 21 09:06:05 2024
 Quant Method : H:\AIR2024\CHEM24\Methods\24_AIR_1018.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Mon Oct 21 10:04:28 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	7.515	130	220230	10.000	ng	0.00
37) 1,4-Difluorobenzene	8.684	114	734567	10.000	ng	0.00
54) Chlorobenzene-d5	11.155	82	340161	10.000	ng	0.00
81) Bromochloromethane(sim)	7.518	130	219047	10.000	ng	# 0.00
96) 1,4-Difluorobenzene(sim)	8.684	114	734567	10.000	ng	0.00
106) Chlorobenzene-d5(sim)	11.155	82	340161	10.000	ng	0.00

System Monitoring Compounds						
63) % Bromofluorobenzene	11.989	95	447698	10.170	ppbv	0.00
Spiked Amount	10.000	Range 70 - 130	Recovery	= 101.70%		

Target Compounds						Qvalue
2) Propylene	4.079	41	227286	9.858	ppbv	99
3) Dichlorodifluoromethane	4.145	85	593338	10.418	ppbv	100
4) Chloromethane	4.294	50	281199	10.018	ppbv	100
5) 1,2-Dichlorotetrafluor...	4.394	85	554573	10.292	ppbv	99
6) Vinyl Chloride	4.501	62	249382	10.188	ppbv	98
7) 1,3-Butadiene	4.626	54	213460	10.081	ppbv	94
8) Bromomethane	4.858	94	214794	9.910	ppbv	98
9) Chloroethane	4.999	64	96156	9.980	ppbv	95
11) Ethanol	5.065	45	78833	6.160	ppbv#	92
12) Acetone	5.443	43	426996	9.813	ppbv	99
13) Trichlorofluoromethane	5.584	101	632190	10.060	ppbv	99
14) Isopropylalcohol	5.609	45	534770	9.888	ppbv	100
15) Acrylonitrile	5.778	53	214537	9.848	ppbv	96
16) 1,1-Dichloroethene	6.040	61	419857	10.344	ppbv	98
17) Methylene Chloride	6.118	49	354692	9.663	ppbv	95
20) Carbon Disulfide	6.350	76	601110	10.202	ppbv	99
21) Trichlorotrifluoroethane	6.290	101	505580	10.269	ppbv	98
22) Trans-1,2-Dichloroethene	6.745	61	394856	10.167	ppbv	97
23) 1,1-Dichloroethane	6.874	63	465119	10.213	ppbv	99
24) Methyl tert-butyl ethe...	6.899	73	529719	10.341	ppbv	99
26) Methyl Ethyl Ketone	7.102	43	584393	10.041	ppbv	98
27) Cis-1,2-Dichloroethene	7.410	61	373789	10.224	ppbv	98
28) Hexane	7.531	57	420079	10.457	ppbv	96
29) Chloroform	7.596	83	472974	10.126	ppbv	99
30) Ethyl acetate	7.507	61	110986	12.980	ppbv	94
31) Tetrahydrofuran	7.840	42	286959	10.419	ppbv	97
32) 1,2-Dichloroethane	8.059	62	347147	10.148	ppbv	97
33) 1,1,1-Trichloroethane	8.221	97	500096	10.157	ppbv	99
34) Benzene	8.502	78	624646	10.080	ppbv	99
35) Carbon Tetrachloride	8.597	117	574659	10.129	ppbv	99
36) Cyclohexane	8.675	84	236810	9.711	ppbv	92
38) 1,2-dichloropropane	8.986	63	316097	10.035	ppbv	94
39) Bromodichloromethane	9.090	83	517237	10.108	ppbv	99
40) Trichloroethene	9.116	130	374602	10.164	ppbv	98
41) 2,2,4-trimethylpentane	9.125	57	1330550	10.079	ppbv	99
42) 1,4-Dioxane	9.099	88	140197	10.571	ppbv	92
44) Heptane	9.254	43	531919	10.111	ppbv	97
45) cis-1,3-Dichloropropene	9.596	75	395520	10.377	ppbv	97
46) 4-Methyl-2-pentanone(M...	9.596	43	698427	10.367	ppbv	99
47) trans-1,3-Dichloropropene	9.884	75	320216	10.303	ppbv	99
48) 1,1,2-Trichloroethane	10.004	97	310823	10.232	ppbv	99
49) Toluene	10.166	91	836155	10.407	ppbv	99

Data Path : H:\AIR2024\CHEM24\10OCT\18A\
 Data File : 1018_15.D
 Acq On : 18 Oct 2024 11:10 pm
 Operator : Keith
 Client ID : ICV_CHEM24_1018
 Lab ID : 10ppb lcs ; T01511
 ALS Vial : 17 Sample Multiplier: 1

Quant Time: Oct 21 09:06:05 2024
 Quant Method : H:\AIR2024\CHEM24\Methods\24_AIR_1018.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Mon Oct 21 10:04:28 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
50) Dibromochloromethane	10.412	129	695579	10.322	ppbv	99
51) 2-Hexanone(MBK)	10.264	43	627517	10.853	ppbv	97
52) 1,2-Dibromoethane(EDB)	10.560	107	542962	10.270	ppbv	100
53) Tetrachloroethene	10.799	166	499976	10.071	ppbv	98
55) 1,1,1,2-Tetrachloroethane	11.162	131	428236	9.695	ppbv	99
56) Chlorobenzene	11.177	112	737630	10.191	ppbv	93
57) Ethylbenzene	11.367	91	1071780	10.351	ppbv	100
58) m, p-Xylene	11.466	91	1608058	20.666	ppbv	98
59) Bromoform	11.541	173	695841	10.485	ppbv	99
60) Styrene	11.670	104	632353	10.620	ppbv	98
61) 1,1,2,2-Tetrachloroethane	11.723	83	637797	10.110	ppbv	96
62) o-Xylene	11.731	91	830498	10.008	ppbv	100
65) Isopropylbenzene	12.049	105	1201033	9.774	ppbv	99
67) 4-Ethyltoluene	12.424	105	1227297	10.430	ppbv	96
68) 1,3,5-Trimethylbenzene	12.462	105	1036323	10.242	ppbv	95
69) 1,2,4-Trimethylbenzene	12.711	105	1069820	10.459	ppbv	98
71) Benzyl chloride	12.812	91	648864	9.952	ppbv	98
72) 1,3-Dichlorobenzene	12.828	146	740650	10.532	ppbv	99
73) 1,4-Dichlorobenzene	12.867	146	627614	10.856	ppbv	99
74) sec-Butylbenzene	12.875	105	1453662	9.543	ppbv	100
75) 4-Isopropyltoluene	12.960	119	1366920	9.586	ppbv	99
76) 1,2-Dichlorobenzene	13.084	146	695065	10.422	ppbv	98
77) n-Butylbenzene	13.232	91	1030115	10.347	ppbv	99
78) 1,2,4-Trichlorobenzene	14.282	180	247767	6.658	ppbv	95
79) Naphthalene	14.383	128	630029	6.360	ppbv#	99
80) Hexachlorobutadiene	14.639	225	481476	6.640	ppbv	98
82] 1,2-Dichlorotetrafluor...	4.394	85	553961	9.978	ppbv	99
83] Vinyl Chloride(sim)	4.504	62	263077	10.176	ppbv	99
84] Bromomethane(sim)	4.858	94	214794	9.262	ppbv#	97
85] Trichlorofluoromethane...	5.587	101	648922	10.104	ppbv#	99
86] 1,2-Dichloroethane(sim)	8.059	62	347147	9.966	ppbv	97
87] 1,1,1-Trichloroethane(...	8.224	97	533122	10.183	ppbv#	99
88] Benzene(sim)	8.502	78	624646	9.407	ppbv	99
89] Carbon Tetrachloride(sim)	8.600	117	580224	10.276	ppbv	100
90] 1,1-Dichloroethene(sim)	6.040	61	419857	10.119	ppbv	98
91] Trichlorotrifluoroetha...	6.293	101	519838	10.139	ppbv#	100
92] Trans-1,2-Dichloroethe...	6.745	61	394856	9.919	ppbv	97
93] 1,1-Dichloroethane(sim)	6.877	63	495443	10.110	ppbv	100
94] Cis-1,2-Dichloroethene...	7.410	61	373789	10.054	ppbv	98
95] Chloroform(sim)	7.591	83	489694	10.035	ppbv	100
97] 1,2-dichloropropane(sim)	8.981	63	337942	10.112	ppbv	99
98] Bromodichloromethane(sim)	9.090	83	517092	9.832	ppbv	99
99] Trichloroethene(sim)	9.119	130	378348	9.915	ppbv	100
100] 1,4-Dioxane(sim)	9.099	88	140197	10.418	ppbv	92
101] cis-1,3-Dichloropropen...	9.599	75	423878	10.518	ppbv	99
102] 1,1,2-Trichloroethane(...	10.004	97	310823	9.942	ppbv	99
103] Dibromochloromethane(sim)	10.415	129	692251	10.424	ppbv	100
104] 1,2-Dibromoethane(EDB)...	10.560	107	542962	10.147	ppbv	100
105] Tetrachloroethene(sim)	10.802	166	507479	9.569	ppbv	100
107] Bromoform(sim)	11.544	173	671398	10.321	ppbv	100
108] m, p-Xylene(sim)	11.466	91	1611908	17.017	ppbv	99
109] 1,1,2,2-Tetrachloroeth...	11.726	83	656446	9.699	ppbv	100
112] Benzyl chloride(sim)	12.812	91	648864	7.040	ppbv	98
113] 1,3-Dichlorobenzene(sim)	12.831	146	776461	12.551	ppbv	99
114] 1,4-Dichlorobenzene(sim)	12.867	146	627614	12.761	ppbv	99

Data Path : H:\AIR2024\CHEM24\10OCT\18A\
Data File : 1018_15.D
Acq On : 18 Oct 2024 11:10 pm
Operator : Keith
Client ID : ICV_CHEM24_1018
Lab ID : 10ppb lcs ; T01511
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Oct 21 09:06:05 2024
Quant Method : H:\AIR2024\CHEM24\Methods\24_AIR_1018.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Mon Oct 21 10:04:28 2024
Response via : Initial Calibration

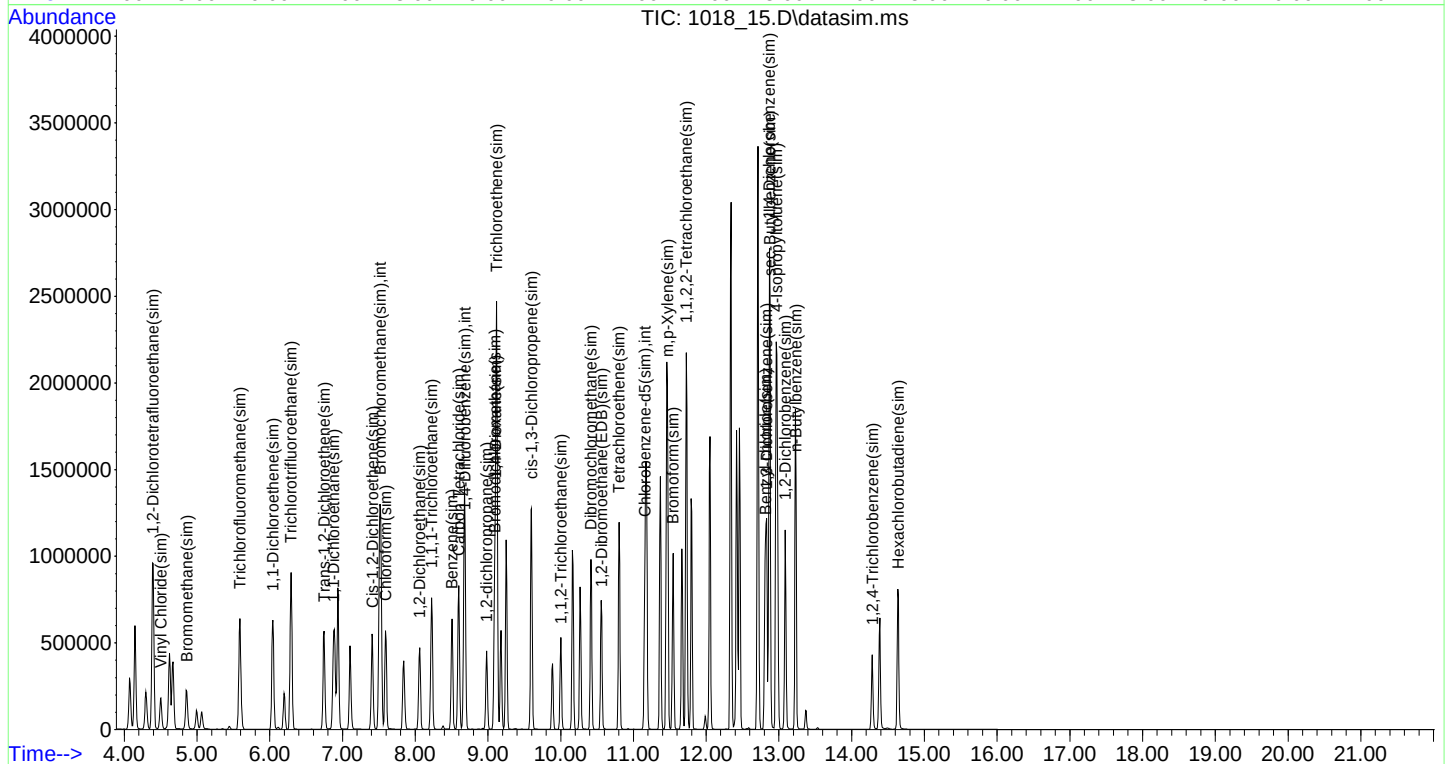
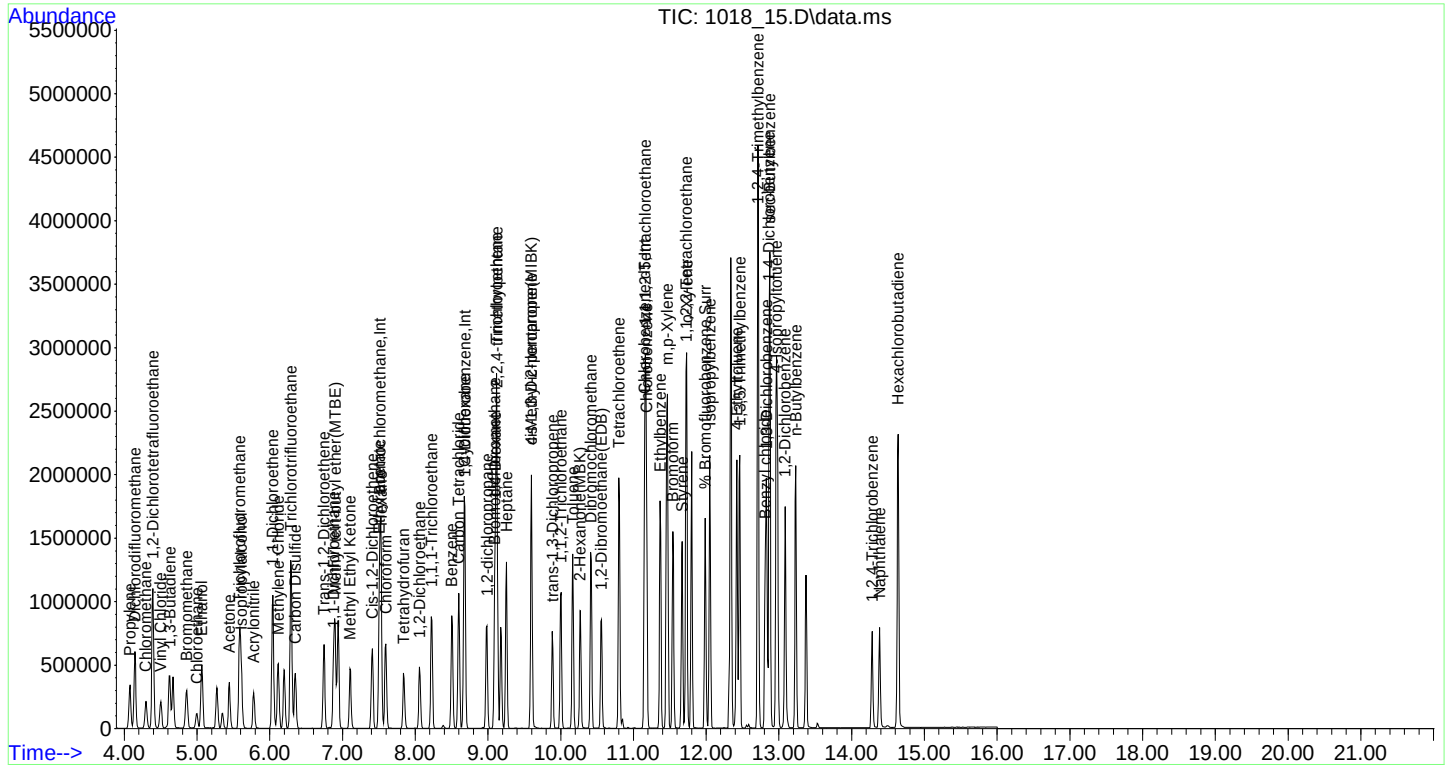
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
115]	sec-Butylbenzene(sim)	12.877	105	1600566	9.293	ppbv	100
116]	4-Isopropyltoluene(sim)	12.960	119	1368082	9.182	ppbv	99
117]	1,2-Dichlorobenzene(sim)	13.087	146	768745	11.444	ppbv	100
118]	n-Butylbenzene(sim)	13.232	91	1030115	12.101	ppbv	99
119]	1,2,4-Trichlorobenzene...	14.285	180	269843	2.789	ppbv	99
120]	Hexachlorobutadiene(sim)	14.639	225	480305	6.698	ppbv	97

(#)out of range (m>manual integration reviewed by analyst (+)signals summed

(QT Reviewed)

Data Path : H:\AIR2024\CHEM24\10OCT\18A\
Data File : 1018_15.D
Acq On : 18 Oct 2024 11:10 pm
Operator : Keith
Client ID : ICV_CHEM24_1018
Lab ID : 10ppb lcs ; T01511
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Oct 21 09:06:05 2024
Quant Method : H:\AIR2024\CHEM24\Methods\24_AIR_1018.M
Quant Title : VOA Standards for 5 point calibration
Qlast Update : Mon Oct 21 10:04:28 2024
Response via : Initial Calibration



7A
AIR CONTINUING CALIBRATION CHECK

Lab Name: Phoenix Environmental Labs Client: AMC-ENG

Lab Code: Phoenix Case No.: SAS No.: SDG No.: GCS16244

Instrument: CHEM24 Calibration Date: 11/26/24 Time: 13:54

Lab File Id: 1126_02.D Init. Calib. Date(s): 10/18/24 10/18/24

Heated Purge (Y/N): Y Init. Calib. Times: 15:10 22:33

GC Column: RTX-1 Method File: 24_AIR_1018.M

COMPOUND	RRF	RRF1	RRF MIN	%D	% D LIMITS
Propylene	1.047	1.160		-10.8	30
Dichlorodifluoromethane	2.586	2.554		1.2	30
Chloromethane	1.275	1.543		-21.0	30
1,2-Dichlorotetrafluoroethane	2.447	2.579		-5.4	30
Vinyl Chloride	1.111	1.189		-7.0	30
1,3-Butadiene	0.961	1.087		-13.1	30
Bromomethane	0.984	1.006		-2.2	30
Chloroethane	0.438	0.469		-7.1	30
Ethanol	0.581	0.716		-23.2	30
Acetone	1.976	2.238		-13.3	30
Trichlorofluoromethane	2.853	2.885		-1.1	30
Isopropylalcohol	2.456	2.762		-12.5	30
Acrylonitrile	0.989	1.028		-3.9	30
1,1-Dichloroethene	1.843	1.839		0.2	30
Methylene Chloride	1.667	1.888		-13.3	30
Carbon Disulfide	2.675	2.651		0.9	30
Trichlorotrifluoroethane	2.236	2.227		0.4	30
Trans-1,2-Dichloroethene	1.764	1.702		3.5	30
1,1-Dichloroethane	2.068	2.139		-3.4	30
Methyl tert-butyl ether(MTBE)	2.326	1.970		15.3	30
Methyl Ethyl Ketone	2.643	2.933		-11.0	30
Cis-1,2-Dichloroethene	1.660	1.571		5.4	30
Hexane	1.824	1.687		7.5	30
Chloroform	2.121	2.142		-1.0	30
Ethyl acetate	0.388	0.366		5.7	30
Tetrahydrofuran	1.251	1.231		1.6	30
1,2-Dichloroethane	1.553	1.656		-6.6	30
1,1,1-Trichloroethane	2.236	2.258		-1.0	30
Benzene	2.814	2.533		10.0	30
Carbon Tetrachloride	2.576	2.625		-1.9	30
Cyclohexane	1.107	1.029		7.0	30
1,2-dichloropropane	0.429	0.431		-0.5	30
Bromodichloromethane	0.697	0.711		-2.0	30
Trichloroethene	0.502	0.495		1.4	30
2,2,4-trimethylpentane	1.797	1.834		-2.1	30

(*) Recommended RRF not met (+) %D exceeds criteria % (#) %D exceeds (maximum) criteria
%D: 20% of target compounds are allowed to be above criteria %, but must be less than the (maximum) %D
(#) Maximum %D not met.

7B
AIR CONTINUING CALIBRATION CHECK

Lab Name: Phoenix Environmental Labs Client: AMC-ENG

Lab Code: Phoenix Case No.: SAS No.: SDG No.: GCS16244

Instrument: CHEM24 Calibration Date: 11/26/24 Time: 13:54

Lab File Id: 1126_02.D Init. Calib. Date(s): 10/18/24 10/18/24

Heated Purge (Y/N): Y Init. Calib. Times: 15:10 22:33

GC Column: RTX-1 Method File: 24_AIR_1018.M

COMPOUND	RRF	RRF1	RRF MIN	%D	% D LIMITS
1,4-Dioxane	0.181	0.177		2.2	30
Heptane	0.716	0.779		-8.8	30
cis-1,3-Dichloropropene	0.519	0.495		4.6	30
4-Methyl-2-pentanone(MIBK)	0.917	0.997		-8.7	30
trans-1,3-Dichloropropene	0.423	0.380		10.2	30
1,1,2-Trichloroethane	0.414	0.403		2.7	30
Toluene	1.094	0.976		10.8	30
Dibromochloromethane	0.917	0.902		1.6	30
2-Hexanone(MBK)	0.787	0.759		3.6	30
1,2-Dibromoethane(EDB)	0.720	0.698		3.1	30
Tetrachloroethene	0.676	0.648		4.1	30
1,1,1,2-Tetrachloroethane	1.299	1.377		-6.0	30
Chlorobenzene	2.128	2.171		-2.0	30
Ethylbenzene	3.044	2.727		10.4	30
m,p-Xylene	2.287	1.743		23.8	30
Bromoform	1.951	1.948		0.2	30
Styrene	1.751	1.452		17.1	30
1,1,2,2-Tetrachloroethane	1.855	1.845		0.5	30
o-Xylene	2.440	2.295		5.9	30
Isopropylbenzene	3.612	3.545		1.9	30
4-Ethyltoluene	3.459	3.079		11.0	30
1,3,5-Trimethylbenzene	2.974	2.813		5.4	30
1,2,4-Trimethylbenzene	3.007	2.608		13.3	30
Benzyl chloride qfi	1.000	0.57		43.0 #	20
1,3-Dichlorobenzene	2.067	1.818		12.0	30
1,4-Dichlorobenzene	1.700	1.408		17.2	30
sec-Butylbenzene	4.478	4.226		5.6	30
4-Isopropyltoluene	4.192	3.806		9.2	30
1,2-Dichlorobenzene	1.961	1.670		14.8	30
n-Butylbenzene	2.927	2.180		25.5	30
1,2,4-Trichlorobenzene qfi	1.000	0.31		69.0 #	20
Naphthalene qfi	1.000	0.30		70.0 #	20
Hexachlorobutadiene	2.132	1.674		21.5	30
1,2-Dichlorotetrafluoroethane(sim)	2.534	2.510		0.9	30
Vinyl Chloride(sim)	1.180	1.237		-4.8	30

(*) Recommended RRF not met (+) %D exceeds criteria % (#) %D exceeds (maximum) criteria

%D: 20% of target compounds are allowed to be above criteria %, but must be less than the (maximum) %D

(#) Maximum %D not met.

7B
AIR CONTINUING CALIBRATION CHECK

Lab Name: Phoenix Environmental Labs Client: AMC-ENG

Lab Code: Phoenix Case No.: SAS No.: SDG No.: GCS16244

Instrument: CHEM24 Calibration Date: 11/26/24 Time: 13:54

Lab File Id: 1126_02.D Init. Calib. Date(s): 10/18/24 10/18/24

Heated Purge (Y/N): Y Init. Calib. Times: 15:10 22:33

GC Column: RTX-1 Method File: 24_AIR_1018.M

COMPOUND	RRF	RRF1	RRF MIN	%D	% D LIMITS
Bromomethane(sim)	1.059	0.979		7.6	30
Trichlorofluoromethane(sim)	2.932	2.962		-1.0	30
1,2-Dichloroethane(sim)	1.590	1.612		-1.4	30
1,1,1-Trichloroethane(sim)	2.390	2.417		-1.1	30
Benzene(sim)	3.031	2.466		18.6	30
Carbon Tetrachloride(sim)	2.578	2.641		-2.4	30
1,1-Dichloroethene(sim)	1.894	1.790		5.5	30
Trichlorotrifluoroethane(sim)	2.341	2.291		2.1	30
Trans-1,2-Dichloroethene(sim)	1.817	1.657		8.8	30
1,1-Dichloroethane(sim)	2.237	2.199		1.7	30
Cis-1,2-Dichloroethene(sim)	1.697	1.529		9.9	30
Chloroform(sim)	2.228	2.224		0.2	30
1,2-dichloropropane(sim)	0.455	0.458		-0.7	30
Bromodichloromethane(sim)	0.716	0.711		0.7	30
Trichloroethene(sim)	0.519	0.521		-0.4	30
1,4-Dioxane(sim)	0.183	0.177		3.3	30
cis-1,3-Dichloropropene(sim)	0.549	0.526		4.2	30
1,1,2-Trichloroethane(sim)	0.426	0.403		5.4	30
Dibromochloromethane(sim)	0.904	0.921		-1.9	30
1,2-Dibromoethane(EDB)(sim)	0.728	0.698		4.1	30
Tetrachloroethene(sim)	0.722	0.666		7.8	30
Bromoform(sim)	1.912	1.927		-0.8	30
m,p-Xylene(sim)	2.785	2.179		21.8	30
1,1,2,2-Tetrachloroethane(sim)	1.990	1.953		1.9	30
Benzyl chloride(sim) qfi	1.000	0.91		9.0	20
1,3-Dichlorobenzene(sim)	1.819	1.945		-6.9	30
1,4-Dichlorobenzene(sim)	1.446	1.408		2.6	30
sec-Butylbenzene(sim)	5.063	4.726		6.7	30
4-Isopropyltoluene(sim)	4.380	3.806		13.1	30
1,2-Dichlorobenzene(sim)	1.975	1.885		4.6	30
n-Butylbenzene(sim)	2.503	2.180		12.9	30
1,2,4-Trichlorobenzene(sim) qfi	1.000	0.52		48.0 #	20
Hexachlorobutadiene(sim)	2.108	1.662		21.2	30
% Bromofluorobenzene	1.294	1.305		-0.9	30

(*) Recommended RRF not met (+) %D exceeds criteria % (#) %D exceeds (maximum) criteria
%D: 20% of target compounds are allowed to be above criteria %, but must be less than the (maximum) %D
(#) Maximum %D not met.

Evaluate Continuing Calibration Report

Data Path : H:\AIR2024\CHEM24\11NOV\26\
 Data File : 1126_02.D
 Acq On : 26 Nov 2024 1:54 pm
 Operator : Keith
 Client ID : BFB TUNE - CCAL 1
 Lab ID : 1ppb ccal; T01511 - 1ppb ccal; T01511
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 26 14:17:09 2024
 Quant Method : H:\AIR2024\CHEM24\Methods\24_AIR_1018.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Mon Oct 21 10:04:28 2024
 Response via : Initial Calibration

Note: Curves (l,lf,q,qf) display calculated concentration.
 Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.20min
 Max. RRF Dev : 30% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%
1 Int	Bromochloromethane	1.000	1.000	0.0	84
2	Propylene	1.047	1.160	-10.8	
3	Dichlorodifluoromethane	2.586	2.554	1.2	
4	Chloromethane	1.275	1.543	-21.0	
5	1,2-Dichlorotetrafluoroetha	2.447	2.579	-5.4	
6	Vinyl Chloride	1.111	1.189	-7.0	
7	1,3-Butadiene	0.961	1.087	-13.1	
8	Bromomethane	0.984	1.006	-2.2	
9	Chloroethane	0.438	0.469	-7.1	
11	Ethanol	0.581	0.716	-23.2	
12	Acetone	1.976	2.238	-13.3	
13	Trichlorofluoromethane	2.853	2.885	-1.1	
14	Isopropylalcohol	2.456	2.762	-12.5	
15	Acrylonitrile	0.989	1.028	-3.9	
16	1,1-Dichloroethene	1.843	1.839	0.2	
17	Methylene Chloride	1.667	1.888	-13.3	
20	Carbon Disulfide	2.675	2.651	0.9	
21	Trichlorotrifluoroethane	2.236	2.227	0.4	
22	Trans-1,2-Dichloroethene	1.764	1.702	3.5	
23	1,1-Dichloroethane	2.068	2.139	-3.4	
24	Methyl tert-butyl ether(MTB)	2.326	1.970	15.3	
26	Methyl Ethyl Ketone	2.643	2.933	-11.0	
27	Cis-1,2-Dichloroethene	1.660	1.571	5.4	
28	Hexane	1.824	1.687	7.5	
29	Chloroform	2.121	2.142	-1.0	
30	Ethyl acetate	0.388	0.366	5.7	
31	Tetrahydrofuran	1.251	1.231	1.6	
32	1,2-Dichloroethane	1.553	1.656	-6.6	
33	1,1,1-Trichloroethane	2.236	2.258	-1.0	
34	Benzene	2.814	2.533	10.0	
35	Carbon Tetrachloride	2.576	2.625	-1.9	
36	Cyclohexane	1.107	1.029	7.0	
37 Int	1,4-Difluorobenzene	1.000	1.000	0.0	80
38	1,2-dichloropropane	0.429	0.431	-0.5	
39	Bromodichloromethane	0.697	0.711	-2.0	
40	Trichloroethene	0.502	0.495	1.4	
41	2,2,4-trimethylpentane	1.797	1.834	-2.1	
42	1,4-Dioxane	0.181	0.177	2.2	
44	Heptane	0.716	0.779	-8.8	
45	cis-1,3-Dichloropropene	0.519	0.495	4.6	
46	4-Methyl-2-pentanone(MIBK)	0.917	0.997	-8.7	
47	trans-1,3-Dichloropropene	0.423	0.380	10.2	
48	1,1,2-Trichloroethane	0.414	0.403	2.7	
49	Toluene	1.094	0.976	10.8	
50	Dibromochloromethane	0.917	0.902	1.6	
51	2-Hexanone(MBK)	0.787	0.759	3.6	
52	1,2-Dibromoethane(EDB)	0.720	0.698	3.1	
53	Tetrachloroethene	0.676	0.648	4.1	
54 Int	Chlorobenzene-d5	1.000	1.000	0.0	82

Evaluate Continuing Calibration Report

Data Path : H:\AIR2024\CHEM24\11NOV\26\
 Data File : 1126_02.D
 Acq On : 26 Nov 2024 1:54 pm
 Operator : Keith
 Client ID : BFB TUNE - CCAL 1
 Lab ID : 1ppb ccal; T01511 - 1ppb ccal; T01511
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 26 14:17:09 2024
 Quant Method : H:\AIR2024\CHEM24\Methods\24_AIR_1018.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Mon Oct 21 10:04:28 2024
 Response via : Initial Calibration

Note: Curves (l,lf,q,qf) display calculated concentration.
 Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.20min
 Max. RRF Dev : 30% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev Area%	
55	1,1,1,2-Tetrachloroethane	1.299	1.377	-6.0	
56	Chlorobenzene	2.128	2.171	-2.0	
57	Ethylbenzene	3.044	2.727	10.4	
58	m,p-Xylene	2.287	1.743	23.8	
59	Bromoform	1.951	1.948	0.2	
60	Styrene	1.751	1.452	17.1	
61	1,1,2,2-Tetrachloroethane	1.855	1.845	0.5	
62	o-Xylene	2.440	2.295	5.9	
63	Surr % Bromofluorobenzene	1.294	1.305	-0.9	
65	Isopropylbenzene	3.612	3.545	1.9	
67	4-Ethyltoluene	3.459	3.079	11.0	
68	1,3,5-Trimethylbenzene	2.974	2.813	5.4	
69	1,2,4-Trimethylbenzene	3.007	2.608	13.3	
71	qf Benzyl chloride	1.000	0.574	42.6#	
72	1,3-Dichlorobenzene	2.067	1.818	12.0	
73	1,4-Dichlorobenzene	1.700	1.408	17.2	
74	sec-Butylbenzene	4.478	4.226	5.6	
75	4-Isopropyltoluene	4.192	3.806	9.2	
76	1,2-Dichlorobenzene	1.961	1.670	14.8	
77	n-Butylbenzene	2.927	2.180	25.5	
78	qf 1,2,4-Trichlorobenzene	1.000	0.311	68.9#	
79	qf Naphthalene	1.000	0.303	69.7#	
80	Hexachlorobutadiene	2.132	1.674	21.5	
81	int Bromochloromethane(sim)	1.000	1.000	0.0	86
82	1,2-Dichlorotetrafluoroetha	2.534	2.510	0.9	
83	Vinyl Chloride(sim)	1.180	1.237	-4.8	
84	Bromomethane(sim)	1.059	0.979	7.6	
85	Trichlorofluoromethane(sim)	2.932	2.962	-1.0	
86	1,2-Dichloroethane(sim)	1.590	1.612	-1.4	
87	1,1,1-Trichloroethane(sim)	2.390	2.417	-1.1	
88	Benzene(sim)	3.031	2.466	18.6	
89	Carbon Tetrachloride(sim)	2.578	2.641	-2.4	
90	1,1-Dichloroethene(sim)	1.894	1.790	5.5	
91	Trichlorotrifluoroethane(si	2.341	2.291	2.1	
92	Trans-1,2-Dichloroethene(si	1.817	1.657	8.8	
93	1,1-Dichloroethane(sim)	2.237	2.199	1.7	
94	Cis-1,2-Dichloroethene(sim)	1.697	1.529	9.9	
95	Chloroform(sim)	2.228	2.224	0.2	
96	int 1,4-Difluorobenzene(sim)	1.000	1.000	0.0	80
97	1,2-dichloropropane(sim)	0.455	0.458	-0.7	
98	Bromodichloromethane(sim)	0.716	0.711	0.7	
99	Trichloroethene(sim)	0.519	0.521	-0.4	
100	1,4-Dioxane(sim)	0.183	0.177	3.3	
101	cis-1,3-Dichloropropene(sim	0.549	0.526	4.2	
102	1,1,2-Trichloroethane(sim)	0.426	0.403	5.4	
103	Dibromochloromethane(sim)	0.904	0.921	-1.9	
104	1,2-Dibromoethane(EDB)(sim)	0.728	0.698	4.1	
105	Tetrachloroethene(sim)	0.722	0.666	7.8	

Evaluate Continuing Calibration Report

Data Path : H:\AIR2024\CHEM24\11NOV\26\
 Data File : 1126_02.D
 Acq On : 26 Nov 2024 1:54 pm
 Operator : Keith
 Client ID : BFB TUNE - CCAL 1
 Lab ID : 1ppb ccal; T01511 - 1ppb ccal; T01511
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 26 14:17:09 2024
 Quant Method : H:\AIR2024\CHEM24\Methods\24_AIR_1018.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Mon Oct 21 10:04:28 2024
 Response via : Initial Calibration

Note: Curves (l, lf, q, qf) display calculated concentration.
 Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.20min
 Max. RRF Dev : 30% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%
106 int	Chlorobenzene-d5(sim)	1.000	1.000	0.0	82
107	Bromoform(sim)	1.912	1.927	-0.8	
108	m,p-Xylene(sim)	2.785	2.179	21.8	
109	1,1,2,2-Tetrachloroethane(s	1.990	1.953	1.9	
112 qf	Benzyl chloride(sim)	1.000	0.912	8.8	
113	1,3-Dichlorobenzene(sim)	1.819	1.945	-6.9	
114	1,4-Dichlorobenzene(sim)	1.446	1.408	2.6	
115	sec-Butylbenzene(sim)	5.063	4.726	6.7	
116	4-Isopropyltoluene(sim)	4.380	3.806	13.1	
117	1,2-Dichlorobenzene(sim)	1.975	1.885	4.6	
118	n-Butylbenzene(sim)	2.503	2.180	12.9	
119 qf	1,2,4-Trichlorobenzene(sim)	1.000	0.519	48.1#	
120	Hexachlorobutadiene(sim)	2.108	1.662	21.2	

(#)=Out of Range l=linear, lf=liner(0,0), q=quadratic, qf=quadratic(0,0)
 Laboratory Warning Limits Out = 0

Data Path : H:\AIR2024\CHEM24\11NOV\26\
 Data File : 1126_02.D
 Acq On : 26 Nov 2024 1:54 pm
 Operator : Keith
 Client ID : BFB TUNE - CCAL 1
 Lab ID : 1ppb ccal; T01511 - 1ppb ccal; T01511
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 26 14:17:09 2024
 Quant Method : H:\AIR2024\CHEM24\Methods\24_AIR_1018.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Mon Oct 21 10:04:28 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	7.515	130	203887	10.000	ng	0.00
37) 1,4-Difluorobenzene	8.684	114	653513	10.000	ng	0.00
54) Chlorobenzene-d5	11.155	82	286363	10.000	ng	0.00
81) Bromochloromethane(sim)	7.518	130	209431	10.000	ng	# 0.00
96) 1,4-Difluorobenzene(sim)	8.684	114	653513	10.000	ng	0.00
106) Chlorobenzene-d5(sim)	11.155	82	286363	10.000	ng	# 0.00
System Monitoring Compounds						
63) % Bromofluorobenzene	11.989	95	373763	10.086	ppbv	0.00
Spiked Amount	10.000	Range 70 - 130	Recovery	= 100.90%		
Target Compounds						
					Qvalue	
2) Propylene	4.079	41	23653	1.108	ppbv	95
3) Dichlorodifluoromethane	4.145	85	52082	0.988	ppbv#	97
4) Chloromethane	4.294	50	31459	1.211	ppbv	98
5) 1,2-Dichlorotetrafluor...	4.385	85	52575	1.054	ppbv	96
6) Vinyl Chloride	4.501	62	24246	1.070	ppbv	98
7) 1,3-Butadiene	4.618	54	22157	1.130	ppbv#	91
8) Bromomethane	4.850	94	20508	1.022	ppbv	98
9) Chloroethane	4.991	64	9559	1.072	ppbv	84
11) Ethanol	5.074	45	14591	1.232	ppbv#	94
12) Acetone	5.449	43	45622	1.133	ppbv	94
13) Trichlorofluoromethane	5.584	101	58829	1.011	ppbv	99
14) Isopropylalcohol	5.621	45	56318	1.125	ppbv#	90
15) Acrylonitrile	5.778	53	20961	1.039	ppbv	95
16) 1,1-Dichloroethene	6.040	61	37485	0.998	ppbv	94
17) Methylene Chloride	6.112	49	38501	1.133	ppbv#	86
20) Carbon Disulfide	6.350	76	54042	0.991	ppbv	100
21) Trichlorotrifluoroethane	6.290	101	45407	0.996	ppbv	97
22) Trans-1,2-Dichloroethene	6.745	61	34699	0.965	ppbv	96
23) 1,1-Dichloroethane	6.875	63	43606	1.034	ppbv	97
24) Methyl tert-butyl ethe...	6.907	73	40156	0.847	ppbv#	77
26) Methyl Ethyl Ketone	7.118	43	59799	1.110	ppbv#	92
27) Cis-1,2-Dichloroethene	7.410	61	32028	0.946	ppbv	97
28) Hexane	7.531	57	34392	0.925	ppbv#	82
29) Chloroform	7.588	83	43677	1.010	ppbv	95
30) Ethyl acetate	7.515	61	7465	0.943	ppbv	93
31) Tetrahydrofuran	7.856	42	25106	0.985	ppbv	91
32) 1,2-Dichloroethane	8.059	62	33762	1.066	ppbv	96
33) 1,1,1-Trichloroethane	8.221	97	46034	1.010	ppbv	96
34) Benzene	8.502	78	51653	0.900	ppbv#	94
35) Carbon Tetrachloride	8.597	117	53524	1.019	ppbv	99
36) Cyclohexane	8.675	84	20987	0.930	ppbv#	89
38) 1,2-dichloropropane	8.978	63	28193	1.006	ppbv	92
39) Bromodichloromethane	9.090	83	46451	1.020	ppbv	100
40) Trichloroethene	9.116	130	32366	0.987	ppbv	99
41) 2,2,4-trimethylpentane	9.125	57	119839	1.020	ppbv	94
42) 1,4-Dioxane	9.107	88	11587	0.982	ppbv#	87
44) Heptane	9.254	43	50895	1.087	ppbv#	90
45) cis-1,3-Dichloropropene	9.596	75	32333	0.953	ppbv	96
46) 4-Methyl-2-pentanone(M...	9.603	43	65154	1.087	ppbv#	92
47) trans-1,3-Dichloropropene	9.884	75	24845	0.899	ppbv	98
48) 1,1,2-Trichloroethane	9.997	97	26369	0.976	ppbv	98
49) Toluene	10.166	91	63762	0.892	ppbv	98

Data Path : H:\AIR2024\CHEM24\11NOV\26\
 Data File : 1126_02.D
 Acq On : 26 Nov 2024 1:54 pm
 Operator : Keith
 Client ID : BFB TUNE - CCAL 1
 Lab ID : 1ppb ccal; T01511 - 1ppb ccal; T01511
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 26 14:17:09 2024
 Quant Method : H:\AIR2024\CHEM24\Methods\24_AIR_1018.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Mon Oct 21 10:04:28 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
50) Dibromochloromethane	10.412	129	58975	0.984	ppbv	100
51) 2-Hexanone(MBK)	10.279	43	49608	0.964	ppbv#	85
52) 1,2-Dibromoethane(EDB)	10.553	107	45611	0.970	ppbv	97
53) Tetrachloroethene	10.799	166	42331	0.958	ppbv	97
55) 1,1,1,2-Tetrachloroethane	11.162	131	39427	1.060	ppbv	99
56) Chlorobenzene	11.177	112	62158	1.020	ppbv	100
57) Ethylbenzene	11.367	91	78094	0.896	ppbv	98
58) m, p-Xylene	11.466	91	124783	1.905	ppbv	99
59) Bromoform	11.541	173	55793	0.999	ppbv	99
60) Styrene	11.670	104	41570	0.829	ppbv#	94
61) 1,1,2,2-Tetrachloroethane	11.723	83	52837	0.995	ppbv	94
62) o-Xylene	11.731	91	65718	0.941	ppbv	98
65) Isopropylbenzene	12.049	105	101510	0.981	ppbv	99
67) 4-Ethyltoluene	12.424	105	88168	0.890	ppbv	95
68) 1,3,5-Trimethylbenzene	12.462	105	80561	0.946	ppbv	94
69) 1,2,4-Trimethylbenzene	12.711	105	74684	0.867	ppbv	97
71) Benzyl chloride	12.812	91	30534	0.574	ppbv	98
72) 1,3-Dichlorobenzene	12.828	146	52069	0.880	ppbv	99
73) 1,4-Dichlorobenzene	12.867	146	40307	0.828	ppbv	96
74) sec-Butylbenzene	12.875	105	121003	0.944	ppbv	99
75) 4-Isopropyltoluene	12.960	119	108986	0.908	ppbv	97
76) 1,2-Dichlorobenzene	13.084	146	47834	0.852	ppbv	97
77) n-Butylbenzene	13.232	91	62420	0.745	ppbv	99
78) 1,2,4-Trichlorobenzene	14.282	180	8920	0.311	ppbv	95
79) Naphthalene	14.383	128	24256	0.303	ppbv#	98
80) Hexachlorobutadiene	14.639	225	47951	0.785	ppbv	98
82] 1,2-Dichlorotetrafluor...	4.385	85	52575	0.991	ppbv	96
83] Vinyl Chloride(sim)	4.496	62	25906	1.048	ppbv	98
84] Bromomethane(sim)	4.850	94	20508	0.925	ppbv	98
85] Trichlorofluoromethane...	5.587	101	62030	1.010	ppbv#	99
86] 1,2-Dichloroethane(sim)	8.059	62	33762	1.014	ppbv	96
87] 1,1,1-Trichloroethane(...	8.224	97	50613	1.011	ppbv#	97
88] Benzene(sim)	8.502	78	51653	0.814	ppbv#	94
89] Carbon Tetrachloride(sim)	8.600	117	55320	1.025	ppbv	99
90] 1,1-Dichloroethene(sim)	6.040	61	37485	0.945	ppbv	94
91] Trichlorotrifluoroetha...	6.293	101	47987	0.979	ppbv#	99
92] Trans-1,2-Dichloroethe...	6.745	61	34699	0.912	ppbv	96
93] 1,1-Dichloroethane(sim)	6.877	63	46051	0.983	ppbv	99
94] Cis-1,2-Dichloroethene...	7.410	61	32028	0.901	ppbv	97
95] Chloroform(sim)	7.591	83	46574	0.998	ppbv#	97
97] 1,2-dichloropropane(sim)	8.981	63	29931	1.007	ppbv#	86
98] Bromodichloromethane(sim)	9.090	83	46451	0.993	ppbv	100
99] Trichloroethene(sim)	9.119	130	34026	1.002	ppbv	100
100] 1,4-Dioxane(sim)	9.107	88	11587	0.968	ppbv#	87
101] cis-1,3-Dichloropropen...	9.599	75	34358	0.958	ppbv	99
102] 1,1,2-Trichloroethane(...	9.997	97	26369	0.948	ppbv	98
103] Dibromochloromethane(sim)	10.415	129	60165	1.018	ppbv	100
104] 1,2-Dibromoethane(EDB)...	10.553	107	45611	0.958	ppbv	97
105] Tetrachloroethene(sim)	10.802	166	43496	0.922	ppbv	99
107] Bromoform(sim)	11.544	173	55179	1.008	ppbv	99
108] m, p-Xylene(sim)	11.466	91	124783	1.565	ppbv	99
109] 1,1,2,2-Tetrachloroeth...	11.726	83	55929	0.982	ppbv	100
112] Benzyl chloride(sim)	12.812	91	30671	0.912	ppbv	98
113] 1,3-Dichlorobenzene(sim)	12.831	146	55705	1.070	ppbv	99
114] 1,4-Dichlorobenzene(sim)	12.867	146	40307	0.973	ppbv	96

Data Path : H:\AIR2024\CHEM24\11NOV\26\
Data File : 1126_02.D
Acq On : 26 Nov 2024 1:54 pm
Operator : Keith
Client ID : BFB TUNE - CCAL 1
Lab ID : 1ppb ccal; T01511 - 1ppb ccal; T01511
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 26 14:17:09 2024
Quant Method : H:\AIR2024\CHEM24\Methods\24_AIR_1018.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Mon Oct 21 10:04:28 2024
Response via : Initial Calibration

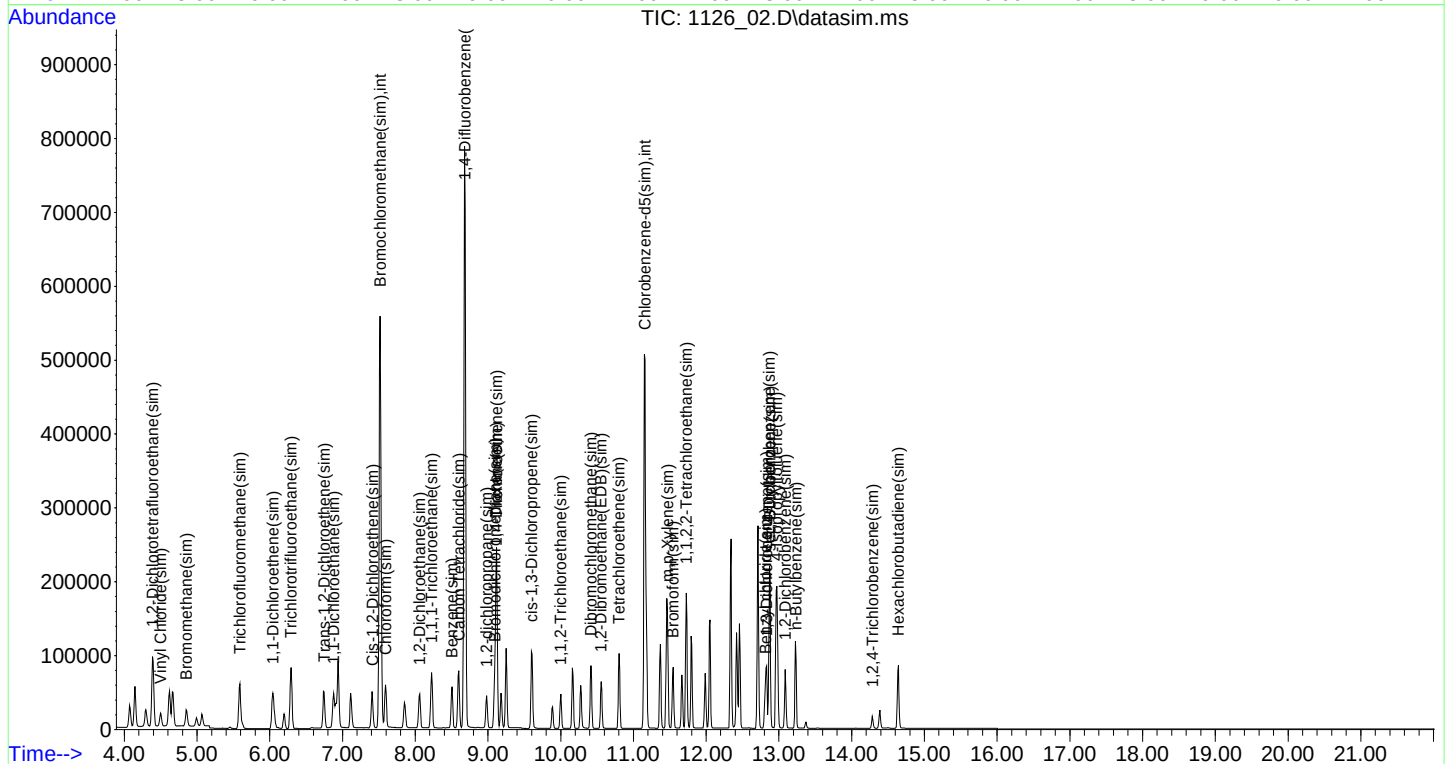
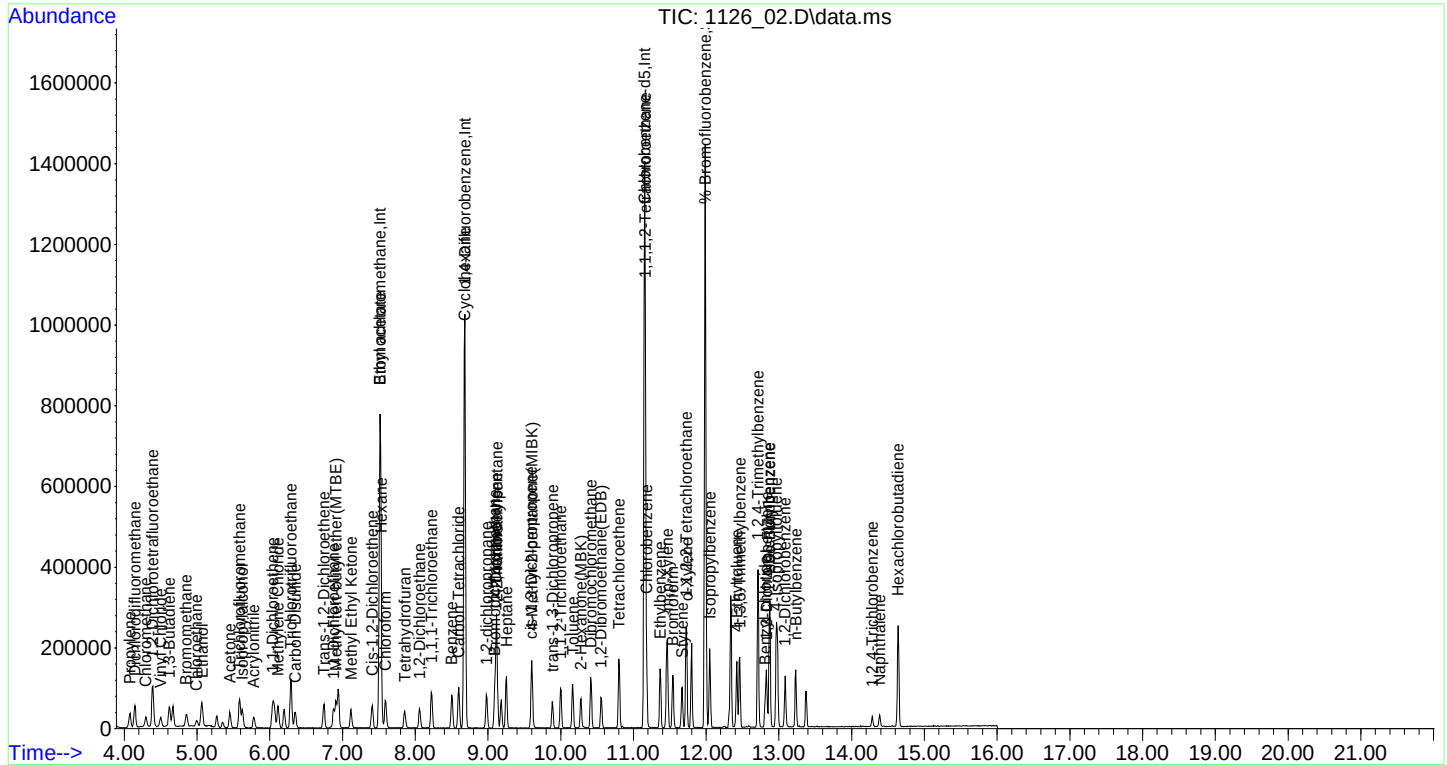
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
115]	sec-Butylbenzene(sim)	12.877	105	135331	0.933	ppbv	99
116]	4-Isopropyltoluene(sim)	12.960	119	108986	0.869	ppbv	97
117]	1,2-Dichlorobenzene(sim)	13.087	146	53989	0.955	ppbv	100
118]	n-Butylbenzene(sim)	13.232	91	62420	0.871	ppbv	99
119]	1,2,4-Trichlorobenzene...	14.285	180	10084	0.519	ppbv	100
120]	Hexachlorobutadiene(sim)	14.639	225	47590	0.788	ppbv	98

(#)out of range (m>manual integration reviewed by analyst (+)signals summed

(QT Reviewed)

Data Path : H:\AIR2024\CHEM24\11NOV\26\
Data File : 1126_02.D
Acq On : 26 Nov 2024 1:54 pm
Operator : Keith
Client ID : BFB TUNE - CCAL 1
Lab ID : 1ppb ccal; T01511 - 1ppb ccal; T01511
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 26 14:17:09 2024
Quant Method : H:\AIR2024\CHEM24\Methods\24_AIR_1018.M
Quant Title : VOA Standards for 5 point calibration
Qlast Update : Mon Oct 21 10:04:28 2024
Response via : Initial Calibration



7A
AIR CONTINUING CALIBRATION CHECK

Lab Name: Phoenix Environmental Labs Client: AMC-ENG

Lab Code: Phoenix Case No.: SAS No.: SDG No.: GCS16244

Instrument: CHEM24 Calibration Date: 11/27/24 Time: 09:45

Lab File Id: 1126_21.D Init. Calib. Date(s): 10/18/24 10/18/24

Heated Purge (Y/N): Y Init. Calib. Times: 15:10 22:33

GC Column: RTX-1 Method File: 24_AIR_1018.M

COMPOUND	RRF	RRF50	RRF MIN	%D	% D LIMITS
Propylene	1.047	1.154		-10.2	30
Dichlorodifluoromethane	2.586	2.561		1.0	30
Chloromethane	1.275	1.467		-15.1	30
1,2-Dichlorotetrafluoroethane	2.447	2.545		-4.0	30
Vinyl Chloride	1.111	1.199		-7.9	30
1,3-Butadiene	0.961	1.100		-14.5	30
Bromomethane	0.984	0.998		-1.4	30
Chloroethane	0.438	0.453		-3.4	30
Ethanol	0.581	0.712		-22.5	30
Acetone	1.976	2.292		-16.0	30
Trichlorofluoromethane	2.853	2.867		-0.5	30
Isopropylalcohol	2.456	2.779		-13.2	30
Acrylonitrile	0.989	1.033		-4.4	30
1,1-Dichloroethene	1.843	1.831		0.7	30
Methylene Chloride	1.667	1.922		-15.3	30
Carbon Disulfide	2.675	2.639		1.3	30
Trichlorotrifluoroethane	2.236	2.205		1.4	30
Trans-1,2-Dichloroethene	1.764	1.696		3.9	30
1,1-Dichloroethane	2.068	2.083		-0.7	30
Methyl tert-butyl ether(MTBE)	2.326	1.956		15.9	30
Methyl Ethyl Ketone	2.643	2.908		-10.0	30
Cis-1,2-Dichloroethene	1.660	1.577		5.0	30
Hexane	1.824	1.650		9.5	30
Chloroform	2.121	2.145		-1.1	30
Ethyl acetate	0.388	0.375		3.4	30
Tetrahydrofuran	1.251	1.221		2.4	30
1,2-Dichloroethane	1.553	1.674		-7.8	30
1,1,1-Trichloroethane	2.236	2.275		-1.7	30
Benzene	2.814	2.562		9.0	30
Carbon Tetrachloride	2.576	2.652		-3.0	30
Cyclohexane	1.107	1.004		9.3	30
1,2-dichloropropane	0.429	0.420		2.1	30
Bromodichloromethane	0.697	0.734		-5.3	30
Trichloroethene	0.502	0.497		1.0	30
2,2,4-trimethylpentane	1.797	1.802		-0.3	30

(*) Recommended RRF not met (+) %D exceeds criteria % (#) %D exceeds (maximum) criteria
%D: 20% of target compounds are allowed to be above criteria %, but must be less than the (maximum) %D
(#) Maximum %D not met.

7B
AIR CONTINUING CALIBRATION CHECK

Lab Name: Phoenix Environmental Labs Client: AMC-ENG

Lab Code: Phoenix Case No.: SAS No.: SDG No.: GCS16244

Instrument: CHEM24 Calibration Date: 11/27/24 Time: 09:45

Lab File Id: 1126_21.D Init. Calib. Date(s): 10/18/24 10/18/24

Heated Purge (Y/N): Y Init. Calib. Times: 15:10 22:33

GC Column: RTX-1 Method File: 24_AIR_1018.M

COMPOUND	RRF	RRF50	RRF MIN	%D	% D LIMITS
1,4-Dioxane	0.181	0.169		6.6	30
Heptane	0.716	0.752		-5.0	30
cis-1,3-Dichloropropene	0.519	0.478		7.9	30
4-Methyl-2-pentanone(MIBK)	0.917	1.009		-10.0	30
trans-1,3-Dichloropropene	0.423	0.373		11.8	30
1,1,2-Trichloroethane	0.414	0.410		1.0	30
Toluene	1.094	0.954		12.8	30
Dibromochloromethane	0.917	0.900		1.9	30
2-Hexanone(MBK)	0.787	0.779		1.0	30
1,2-Dibromoethane(EDB)	0.720	0.688		4.4	30
Tetrachloroethene	0.676	0.617		8.7	30
1,1,1,2-Tetrachloroethane	1.299	1.374		-5.8	30
Chlorobenzene	2.128	2.164		-1.7	30
Ethylbenzene	3.044	2.660		12.6	30
m,p-Xylene	2.287	1.728		24.4	30
Bromoform	1.951	1.960		-0.5	30
Styrene	1.751	1.428		18.4	30
1,1,2,2-Tetrachloroethane	1.855	1.858		-0.2	30
o-Xylene	2.440	2.259		7.4	30
Isopropylbenzene	3.612	3.539		2.0	30
4-Ethyltoluene	3.459	3.001		13.2	30
1,3,5-Trimethylbenzene	2.974	2.806		5.6	30
1,2,4-Trimethylbenzene	3.007	2.482		17.5	30
Benzyl chloride qfi	1.000	0.58		42.0 #	20
1,3-Dichlorobenzene	2.067	1.749		15.4	30
1,4-Dichlorobenzene	1.700	1.470		13.5	30
sec-Butylbenzene	4.478	4.152		7.3	30
4-Isopropyltoluene	4.192	3.760		10.3	30
1,2-Dichlorobenzene	1.961	1.613		17.7	30
n-Butylbenzene	2.927	2.320		20.7	30
1,2,4-Trichlorobenzene qfi	1.000	0.32		68.0 #	20
Naphthalene qfi	1.000	0.29		71.0 #	20
Hexachlorobutadiene	2.132	1.703		20.1	30
1,2-Dichlorotetrafluoroethane(sim)	2.534	2.449		3.4	30
Vinyl Chloride(sim)	1.180	1.234		-4.6	30

(*) Recommended RRF not met (+) %D exceeds criteria % (#) %D exceeds (maximum) criteria

%D: 20% of target compounds are allowed to be above criteria %, but must be less than the (maximum) %D

(#) Maximum %D not met.

7B
AIR CONTINUING CALIBRATION CHECK

Lab Name: Phoenix Environmental Labs Client: AMC-ENG

Lab Code: Phoenix Case No.: SAS No.: SDG No.: GCS16244

Instrument: CHEM24 Calibration Date: 11/27/24 Time: 09:45

Lab File Id: 1126_21.D Init. Calib. Date(s): 10/18/24 10/18/24

Heated Purge (Y/N): Y Init. Calib. Times: 15:10 22:33

GC Column: RTX-1 Method File: 24_AIR_1018.M

COMPOUND	RRF	RRF50	RRF MIN	%D	% D LIMITS
Bromomethane(sim)	1.059	0.960		9.3	30
Trichlorofluoromethane(sim)	2.932	2.929		0.1	30
1,2-Dichloroethane(sim)	1.590	1.611		-1.3	30
1,1,1-Trichloroethane(sim)	2.390	2.369		0.9	30
Benzene(sim)	3.031	2.465		18.7	30
Carbon Tetrachloride(sim)	2.578	2.619		-1.6	30
1,1-Dichloroethene(sim)	1.894	1.762		7.0	30
Trichlorotrifluoroethane(sim)	2.341	2.271		3.0	30
Trans-1,2-Dichloroethene(sim)	1.817	1.632		10.2	30
1,1-Dichloroethane(sim)	2.237	2.179		2.6	30
Cis-1,2-Dichloroethene(sim)	1.697	1.518		10.5	30
Chloroform(sim)	2.228	2.211		0.8	30
1,2-dichloropropane(sim)	0.455	0.447		1.8	30
Bromodichloromethane(sim)	0.716	0.734		-2.5	30
Trichloroethene(sim)	0.519	0.514		1.0	30
1,4-Dioxane(sim)	0.183	0.169		7.7	30
cis-1,3-Dichloropropene(sim)	0.549	0.518		5.6	30
1,1,2-Trichloroethane(sim)	0.426	0.410		3.8	30
Dibromochloromethane(sim)	0.904	0.929		-2.8	30
1,2-Dibromoethane(EDB)(sim)	0.728	0.688		5.5	30
Tetrachloroethene(sim)	0.722	0.654		9.4	30
Bromoform(sim)	1.912	1.965		-2.8	30
m,p-Xylene(sim)	2.785	2.159		22.5	30
1,1,2,2-Tetrachloroethane(sim)	1.990	1.971		1.0	30
Benzyl chloride(sim) qfi	1.000	0.92		8.0	20
1,3-Dichlorobenzene(sim)	1.819	2.018		-10.9	30
1,4-Dichlorobenzene(sim)	1.446	1.470		-1.7	30
sec-Butylbenzene(sim)	5.063	4.686		7.4	30
4-Isopropyltoluene(sim)	4.380	3.760		14.2	30
1,2-Dichlorobenzene(sim)	1.975	1.838		6.9	30
n-Butylbenzene(sim)	2.503	2.320		7.3	30
1,2,4-Trichlorobenzene(sim) qfi	1.000	0.53		47.0 #	20
Hexachlorobutadiene(sim)	2.108	1.723		18.3	30
% Bromofluorobenzene	1.294	1.309		-1.2	30

(*) Recommended RRF not met (+) %D exceeds criteria % (#) %D exceeds (maximum) criteria
%D: 20% of target compounds are allowed to be above criteria %, but must be less than the (maximum) %D
(#) Maximum %D not met.

Evaluate Continuing Calibration Report

Data Path : H:\AIR2024\CHEM24\11NOV\26\
 Data File : 1126_21.D
 Acq On : 27 Nov 2024 9:45 am
 Operator : Keith
 Client ID : CCAL 1
 Lab ID : 1ppb ccal; T01511
 ALS Vial : 21 Sample Multiplier: 1

Quant Time: Nov 27 11:29:19 2024
 Quant Method : H:\AIR2024\CHEM24\Methods\24_AIR_1018.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Mon Oct 21 10:04:28 2024
 Response via : Initial Calibration

Note: Curves (l,lf,q,qf) display calculated concentration.
 Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.20min
 Max. RRF Dev : 30% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%
1 Int	Bromochloromethane	1.000	1.000	0.0	80
2	Propylene	1.047	1.154	-10.2	
3	Dichlorodifluoromethane	2.586	2.561	1.0	
4	Chloromethane	1.275	1.467	-15.1	
5	1,2-Dichlorotetrafluoroetha	2.447	2.545	-4.0	
6	Vinyl Chloride	1.111	1.199	-7.9	
7	1,3-Butadiene	0.961	1.100	-14.5	
8	Bromomethane	0.984	0.998	-1.4	
9	Chloroethane	0.438	0.453	-3.4	
11	Ethanol	0.581	0.712	-22.5	
12	Acetone	1.976	2.292	-16.0	
13	Trichlorofluoromethane	2.853	2.867	-0.5	
14	Isopropylalcohol	2.456	2.779	-13.2	
15	Acrylonitrile	0.989	1.033	-4.4	
16	1,1-Dichloroethene	1.843	1.831	0.7	
17	Methylene Chloride	1.667	1.922	-15.3	
20	Carbon Disulfide	2.675	2.639	1.3	
21	Trichlorotrifluoroethane	2.236	2.205	1.4	
22	Trans-1,2-Dichloroethene	1.764	1.696	3.9	
23	1,1-Dichloroethane	2.068	2.083	-0.7	
24	Methyl tert-butyl ether(MTB)	2.326	1.956	15.9	
26	Methyl Ethyl Ketone	2.643	2.908	-10.0	
27	Cis-1,2-Dichloroethene	1.660	1.577	5.0	
28	Hexane	1.824	1.650	9.5	
29	Chloroform	2.121	2.145	-1.1	
30	Ethyl acetate	0.388	0.375	3.4	
31	Tetrahydrofuran	1.251	1.221	2.4	
32	1,2-Dichloroethane	1.553	1.674	-7.8	
33	1,1,1-Trichloroethane	2.236	2.275	-1.7	
34	Benzene	2.814	2.562	9.0	
35	Carbon Tetrachloride	2.576	2.652	-3.0	
36	Cyclohexane	1.107	1.004	9.3	
37 Int	1,4-Difluorobenzene	1.000	1.000	0.0	77
38	1,2-dichloropropane	0.429	0.420	2.1	
39	Bromodichloromethane	0.697	0.734	-5.3	
40	Trichloroethene	0.502	0.497	1.0	
41	2,2,4-trimethylpentane	1.797	1.802	-0.3	
42	1,4-Dioxane	0.181	0.169	6.6	
44	Heptane	0.716	0.752	-5.0	
45	cis-1,3-Dichloropropene	0.519	0.478	7.9	
46	4-Methyl-2-pentanone(MIBK)	0.917	1.009	-10.0	
47	trans-1,3-Dichloropropene	0.423	0.373	11.8	
48	1,1,2-Trichloroethane	0.414	0.410	1.0	
49	Toluene	1.094	0.954	12.8	
50	Dibromochloromethane	0.917	0.900	1.9	
51	2-Hexanone(MBK)	0.787	0.779	1.0	
52	1,2-Dibromoethane(EDB)	0.720	0.688	4.4	
53	Tetrachloroethene	0.676	0.617	8.7	
54 Int	Chlorobenzene-d5	1.000	1.000	0.0	79

Evaluate Continuing Calibration Report

Data Path : H:\AIR2024\CHEM24\11NOV\26\
 Data File : 1126_21.D
 Acq On : 27 Nov 2024 9:45 am
 Operator : Keith
 Client ID : CCAL 1
 Lab ID : 1ppb ccal; T01511
 ALS Vial : 21 Sample Multiplier: 1

Quant Time: Nov 27 11:29:19 2024
 Quant Method : H:\AIR2024\CHEM24\Methods\24_AIR_1018.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Mon Oct 21 10:04:28 2024
 Response via : Initial Calibration

Note: Curves (l,lf,q,qf) display calculated concentration.
 Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.20min
 Max. RRF Dev : 30% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev Area%	
55	1,1,1,2-Tetrachloroethane	1.299	1.374	-5.8	
56	Chlorobenzene	2.128	2.164	-1.7	
57	Ethylbenzene	3.044	2.660	12.6	
58	m,p-Xylene	2.287	1.728	24.4	
59	Bromoform	1.951	1.960	-0.5	
60	Styrene	1.751	1.428	18.4	
61	1,1,2,2-Tetrachloroethane	1.855	1.858	-0.2	
62	o-Xylene	2.440	2.259	7.4	
63	Surr % Bromofluorobenzene	1.294	1.309	-1.2	
65	Isopropylbenzene	3.612	3.539	2.0	
67	4-Ethyltoluene	3.459	3.001	13.2	
68	1,3,5-Trimethylbenzene	2.974	2.806	5.6	
69	1,2,4-Trimethylbenzene	3.007	2.482	17.5	
71	qf Benzyl chloride	1.000	0.581	41.9#	
72	1,3-Dichlorobenzene	2.067	1.749	15.4	
73	1,4-Dichlorobenzene	1.700	1.470	13.5	
74	sec-Butylbenzene	4.478	4.152	7.3	
75	4-Isopropyltoluene	4.192	3.760	10.3	
76	1,2-Dichlorobenzene	1.961	1.613	17.7	
77	n-Butylbenzene	2.927	2.320	20.7	
78	qf 1,2,4-Trichlorobenzene	1.000	0.319	68.1#	
79	qf Naphthalene	1.000	0.286	71.4#	
80	Hexachlorobutadiene	2.132	1.703	20.1	
81	int Bromochloromethane(sim)	1.000	1.000	0.0	84
82	1,2-Dichlorotetrafluoroetha	2.534	2.449	3.4	
83	Vinyl Chloride(sim)	1.180	1.234	-4.6	
84	Bromomethane(sim)	1.059	0.960	9.3	
85	Trichlorofluoromethane(sim)	2.932	2.929	0.1	
86	1,2-Dichloroethane(sim)	1.590	1.611	-1.3	
87	1,1,1-Trichloroethane(sim)	2.390	2.369	0.9	
88	Benzene(sim)	3.031	2.465	18.7	
89	Carbon Tetrachloride(sim)	2.578	2.619	-1.6	
90	1,1-Dichloroethene(sim)	1.894	1.762	7.0	
91	Trichlorotrifluoroethane(si	2.341	2.271	3.0	
92	Trans-1,2-Dichloroethene(si	1.817	1.632	10.2	
93	1,1-Dichloroethane(sim)	2.237	2.179	2.6	
94	Cis-1,2-Dichloroethene(sim)	1.697	1.518	10.5	
95	Chloroform(sim)	2.228	2.211	0.8	
96	int 1,4-Difluorobenzene(sim)	1.000	1.000	0.0	77
97	1,2-dichloropropane(sim)	0.455	0.447	1.8	
98	Bromodichloromethane(sim)	0.716	0.734	-2.5	
99	Trichloroethene(sim)	0.519	0.514	1.0	
100	1,4-Dioxane(sim)	0.183	0.169	7.7	
101	cis-1,3-Dichloropropene(sim	0.549	0.518	5.6	
102	1,1,2-Trichloroethane(sim)	0.426	0.410	3.8	
103	Dibromochloromethane(sim)	0.904	0.929	-2.8	
104	1,2-Dibromoethane(EDB)(sim)	0.728	0.688	5.5	
105	Tetrachloroethene(sim)	0.722	0.654	9.4	

Evaluate Continuing Calibration Report

Data Path : H:\AIR2024\CHEM24\11NOV\26\
 Data File : 1126_21.D
 Acq On : 27 Nov 2024 9:45 am
 Operator : Keith
 Client ID : CCAL 1
 Lab ID : 1ppb ccal; T01511
 ALS Vial : 21 Sample Multiplier: 1

Quant Time: Nov 27 11:29:19 2024
 Quant Method : H:\AIR2024\CHEM24\Methods\24_AIR_1018.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Mon Oct 21 10:04:28 2024
 Response via : Initial Calibration

Note: Curves (l, lf, q, qf) display calculated concentration.
 Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.20min
 Max. RRF Dev : 30% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%
106 int	Chlorobenzene-d5(sim)	1.000	1.000	0.0	79
107	Bromoform(sim)	1.912	1.965	-2.8	
108	m,p-Xylene(sim)	2.785	2.159	22.5	
109	1,1,2,2-Tetrachloroethane(s	1.990	1.971	1.0	
112 qf	Benzyl chloride(sim)	1.000	0.922	7.8	
113	1,3-Dichlorobenzene(sim)	1.819	2.018	-10.9	
114	1,4-Dichlorobenzene(sim)	1.446	1.470	-1.7	
115	sec-Butylbenzene(sim)	5.063	4.686	7.4	
116	4-Isopropyltoluene(sim)	4.380	3.760	14.2	
117	1,2-Dichlorobenzene(sim)	1.975	1.838	6.9	
118	n-Butylbenzene(sim)	2.503	2.320	7.3	
119 qf	1,2,4-Trichlorobenzene(sim)	1.000	0.533	46.7#	
120	Hexachlorobutadiene(sim)	2.108	1.723	18.3	

(#)=Out of Range l=linear, lf=liner(0,0), q=quadratic, qf=quadratic(0,0)
 Laboratory Warning Limits Out = 0

Data Path : H:\AIR2024\CHEM24\11NOV\26\
 Data File : 1126_21.D
 Acq On : 27 Nov 2024 9:45 am
 Operator : Keith
 Client ID : CCAL 1
 Lab ID : 1ppb ccal; T01511
 ALS Vial : 21 Sample Multiplier: 1

Quant Time: Nov 27 11:29:19 2024
 Quant Method : H:\AIR2024\CHEM24\Methods\24_AIR_1018.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Mon Oct 21 10:04:28 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	7.515	130	195733	10.000	ng	0.00
37) 1,4-Difluorobenzene	8.683	114	628386	10.000	ng	0.00
54) Chlorobenzene-d5	11.155	82	273314	10.000	ng	0.00
81) Bromochloromethane(sim)	7.518	130	203391	10.000	ng	# 0.00
96) 1,4-Difluorobenzene(sim)	8.683	114	628386	10.000	ng	0.00
106) Chlorobenzene-d5(sim)	11.155	82	273314	10.000	ng	# 0.00
System Monitoring Compounds						
63) % Bromofluorobenzene	11.989	95	357847	10.117	ppbv	0.00
Spiked Amount	10.000	Range 70 - 130	Recovery	= 101.20%		
Target Compounds						
					Qvalue	
2) Propylene	4.079	41	22580	1.102	ppbv	95
3) Dichlorodifluoromethane	4.145	85	50131	0.990	ppbv	97
4) Chloromethane	4.302	50	28708	1.151	ppbv	97
5) 1,2-Dichlorotetrafluor...	4.394	85	49805	1.040	ppbv	96
6) Vinyl Chloride	4.501	62	23460	1.078	ppbv	98
7) 1,3-Butadiene	4.626	54	21538	1.144	ppbv#	93
8) Bromomethane	4.858	94	19528	1.014	ppbv	98
9) Chloroethane	4.999	64	8874	1.036	ppbv	88
11) Ethanol	5.074	45	13938	1.225	ppbv	97
12) Acetone	5.455	43	44861	1.160	ppbv	91
13) Trichlorofluoromethane	5.584	101	56125	1.005	ppbv	100
14) Isopropylalcohol	5.627	45	54388	1.132	ppbv#	89
15) Acrylonitrile	5.784	53	20226	1.045	ppbv	99
16) 1,1-Dichloroethene	6.040	61	35835	0.993	ppbv	93
17) Methylene Chloride	6.118	49	37615	1.153	ppbv#	84
20) Carbon Disulfide	6.350	76	51649	0.986	ppbv	97
21) Trichlorotrifluoroethane	6.290	101	43167	0.986	ppbv	97
22) Trans-1,2-Dichloroethene	6.745	61	33192	0.962	ppbv	92
23) 1,1-Dichloroethane	6.883	63	40771	1.007	ppbv	99
24) Methyl tert-butyl ethe...	6.915	73	38277	0.841	ppbv#	78
26) Methyl Ethyl Ketone	7.118	43	56922	1.100	ppbv#	93
27) Cis-1,2-Dichloroethene	7.410	61	30871	0.950	ppbv	93
28) Hexane	7.531	57	32291	0.904	ppbv#	81
29) Chloroform	7.596	83	41992	1.012	ppbv	94
30) Ethyl acetate	7.515	61	7334	0.965	ppbv	94
31) Tetrahydrofuran	7.856	42	23908	0.977	ppbv#	89
32) 1,2-Dichloroethane	8.058	62	32775	1.078	ppbv	94
33) 1,1,1-Trichloroethane	8.229	97	44534	1.018	ppbv	96
34) Benzene	8.510	78	50138	0.910	ppbv#	94
35) Carbon Tetrachloride	8.597	117	51911	1.030	ppbv	99
36) Cyclohexane	8.675	84	19656	0.907	ppbv#	84
38) 1,2-dichloropropane	8.986	63	26376	0.979	ppbv	90
39) Bromodichloromethane	9.099	83	46154	1.054	ppbv	97
40) Trichloroethene	9.116	130	31210	0.990	ppbv	99
41) 2,2,4-trimethylpentane	9.125	57	113241	1.003	ppbv	95
42) 1,4-Dioxane	9.107	88	10634	0.937	ppbv#	81
44) Heptane	9.254	43	47262	1.050	ppbv#	90
45) cis-1,3-Dichloropropene	9.603	75	30025	0.921	ppbv	99
46) 4-Methyl-2-pentanone(M...	9.610	43	63402	1.100	ppbv#	90
47) trans-1,3-Dichloropropene	9.884	75	23409	0.880	ppbv	98
48) 1,1,2-Trichloroethane	10.004	97	25740	0.991	ppbv	99
49) Toluene	10.166	91	59951	0.872	ppbv	98

Data Path : H:\AIR2024\CHEM24\11NOV\26\
 Data File : 1126_21.D
 Acq On : 27 Nov 2024 9:45 am
 Operator : Keith
 Client ID : CCAL 1
 Lab ID : 1ppb ccal; T01511
 ALS Vial : 21 Sample Multiplier: 1

Quant Time: Nov 27 11:29:19 2024
 Quant Method : H:\AIR2024\CHEM24\Methods\24_AIR_1018.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Mon Oct 21 10:04:28 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
50) Dibromochloromethane	10.419	129	56541	0.981	ppbv	98
51) 2-Hexanone(MBK)	10.279	43	48978	0.990	ppbv#	83
52) 1,2-Dibromoethane(EDB)	10.560	107	43218	0.956	ppbv	100
53) Tetrachloroethene	10.806	166	38792	0.913	ppbv	99
55) 1,1,1,2-Tetrachloroethane	11.162	131	37557	1.058	ppbv	98
56) Chlorobenzene	11.185	112	59145	1.017	ppbv	99
57) Ethylbenzene	11.374	91	72702	0.874	ppbv	99
58) m, p-Xylene	11.465	91	118038	1.888	ppbv	99
59) Bromoform	11.541	173	53568	1.005	ppbv	99
60) Styrene	11.670	104	39035	0.816	ppbv#	95
61) 1,1,2,2-Tetrachloroethane	11.723	83	50780	1.002	ppbv	93
62) o-Xylene	11.731	91	61733	0.926	ppbv	98
65) Isopropylbenzene	12.049	105	96718	0.980	ppbv	98
67) 4-Ethyltoluene	12.424	105	82012	0.867	ppbv	98
68) 1,3,5-Trimethylbenzene	12.462	105	76682	0.943	ppbv	95
69) 1,2,4-Trimethylbenzene	12.711	105	67825	0.825	ppbv	99
71) Benzyl chloride	12.812	91	29511	0.581	ppbv	99
72) 1,3-Dichlorobenzene	12.828	146	47804	0.846	ppbv	98
73) 1,4-Dichlorobenzene	12.867	146	40172	0.865	ppbv	98
74) sec-Butylbenzene	12.874	105	113468	0.927	ppbv	99
75) 4-Isopropyltoluene	12.968	119	102753	0.897	ppbv	97
76) 1,2-Dichlorobenzene	13.092	146	44091	0.823	ppbv	97
77) n-Butylbenzene	13.232	91	63419	0.793	ppbv	98
78) 1,2,4-Trichlorobenzene	14.289	180	8729	0.319	ppbv	97
79) Naphthalene	14.391	128	21852	0.286	ppbv#	97
80) Hexachlorobutadiene	14.639	225	46541	0.799	ppbv	98
82] 1,2-Dichlorotetrafluor...	4.394	85	49805	0.966	ppbv	96
83] Vinyl Chloride(sim)	4.504	62	25104	1.046	ppbv	99
84] Bromomethane(sim)	4.858	94	19528	0.907	ppbv	98
85] Trichlorofluoromethane...	5.587	101	59567	0.999	ppbv#	99
86] 1,2-Dichloroethane(sim)	8.058	62	32775	1.013	ppbv	94
87] 1,1,1-Trichloroethane(...	8.224	97	48183	0.991	ppbv#	97
88] Benzene(sim)	8.510	78	50138	0.813	ppbv#	94
89] Carbon Tetrachloride(sim)	8.600	117	53258	1.016	ppbv	100
90] 1,1-Dichloroethene(sim)	6.040	61	35835	0.930	ppbv	93
91] Trichlorotrifluoroetha...	6.293	101	46180	0.970	ppbv#	99
92] Trans-1,2-Dichloroethe...	6.745	61	33192	0.898	ppbv	92
93] 1,1-Dichloroethane(sim)	6.877	63	44311	0.974	ppbv	99
94] Cis-1,2-Dichloroethene...	7.410	61	30871	0.894	ppbv	93
95] Chloroform(sim)	7.591	83	44973	0.993	ppbv#	96
97] 1,2-dichloropropane(sim)	8.981	63	28083	0.982	ppbv#	84
98] Bromodichloromethane(sim)	9.099	83	46154	1.026	ppbv	97
99] Trichloroethene(sim)	9.119	130	32284	0.989	ppbv	100
100] 1,4-Dioxane(sim)	9.107	88	10634	0.924	ppbv#	81
101] cis-1,3-Dichloropropen...	9.599	75	32540	0.944	ppbv	100
102] 1,1,2-Trichloroethane(...	10.004	97	25740	0.962	ppbv	99
103] Dibromochloromethane(sim)	10.415	129	58381	1.028	ppbv	100
104] 1,2-Dibromoethane(EDB)...	10.560	107	43218	0.944	ppbv	100
105] Tetrachloroethene(sim)	10.802	166	41104	0.906	ppbv	99
107] Bromoform(sim)	11.544	173	53710	1.028	ppbv	100
108] m, p-Xylene(sim)	11.465	91	118038	1.551	ppbv	99
109] 1,1,2,2-Tetrachloroeth...	11.726	83	53866	0.991	ppbv	100
112] Benzyl chloride(sim)	12.812	91	29637	0.922	ppbv	99
113] 1,3-Dichlorobenzene(sim)	12.831	146	55161	1.110	ppbv	98
114] 1,4-Dichlorobenzene(sim)	12.867	146	40172	1.017	ppbv	98

Data Path : H:\AIR2024\CHEM24\11NOV\26\
Data File : 1126_21.D
Acq On : 27 Nov 2024 9:45 am
Operator : Keith
Client ID : CCAL 1
Lab ID : 1ppb ccal; T01511
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Nov 27 11:29:19 2024
Quant Method : H:\AIR2024\CHEM24\Methods\24_AIR_1018.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Mon Oct 21 10:04:28 2024
Response via : Initial Calibration

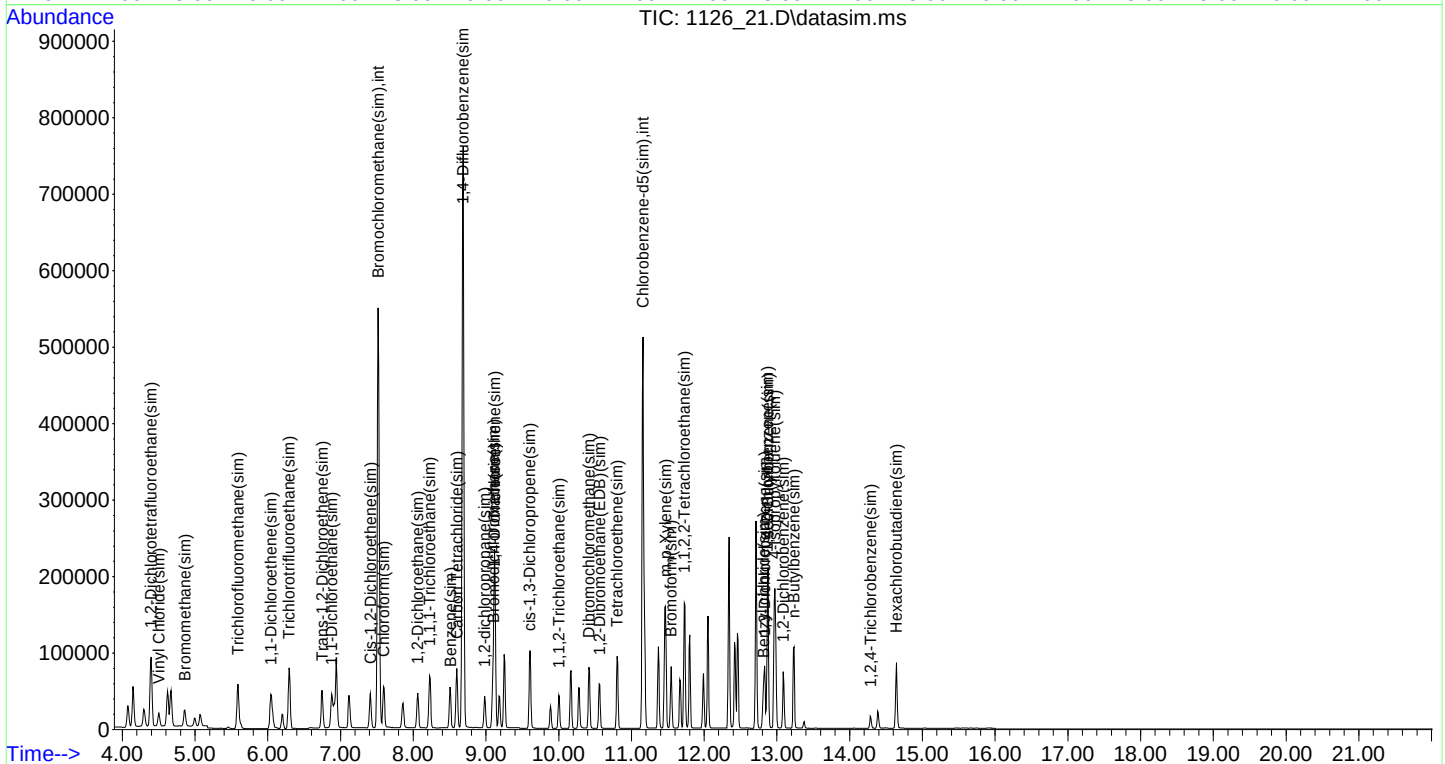
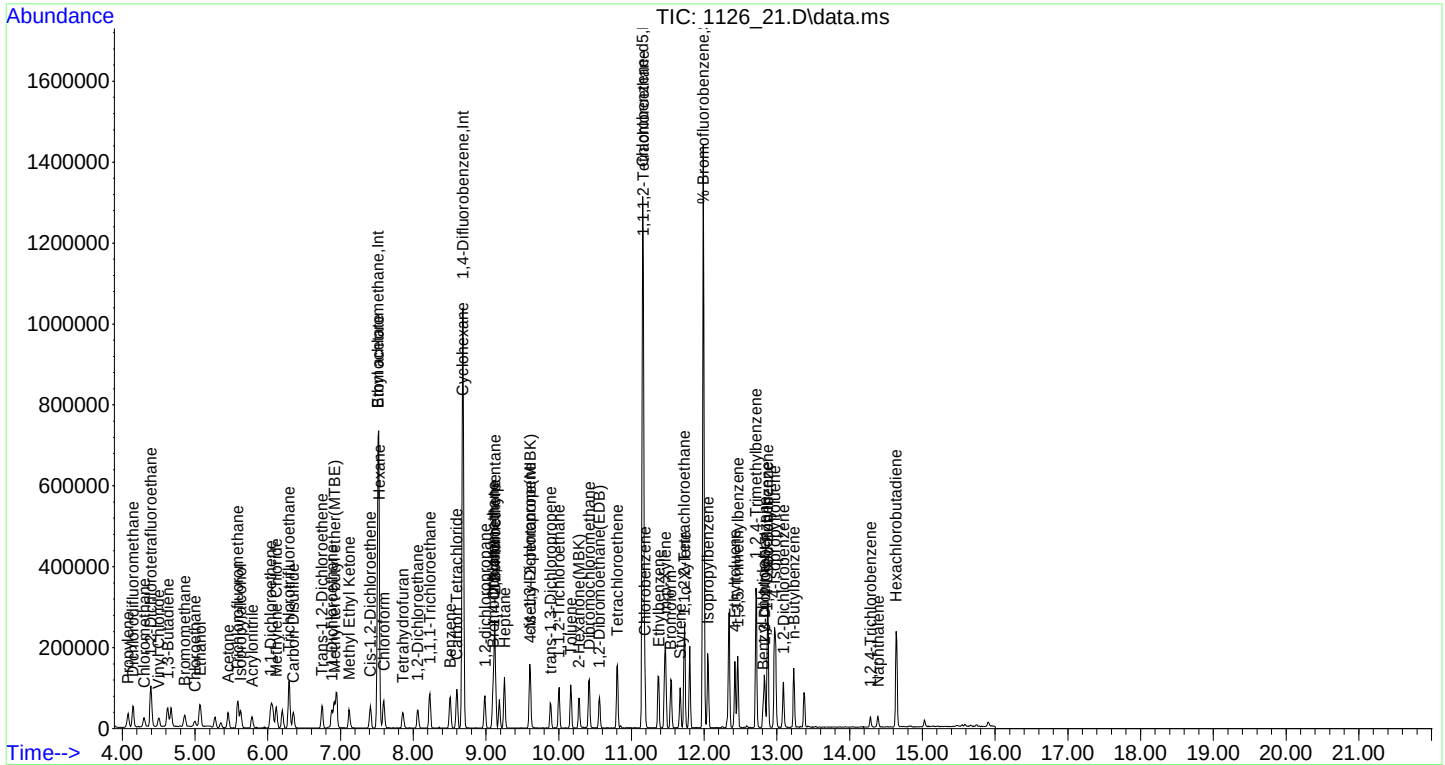
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
115]	sec-Butylbenzene(sim)	12.877	105	128082	0.926	ppbv	99
116]	4-Isopropyltoluene(sim)	12.968	119	102753	0.858	ppbv	97
117]	1,2-Dichlorobenzene(sim)	13.087	146	50240	0.931	ppbv	100
118]	n-Butylbenzene(sim)	13.232	91	63419	0.927	ppbv	98
119]	1,2,4-Trichlorobenzene...	14.285	180	10081	0.533	ppbv	99
120]	Hexachlorobutadiene(sim)	14.639	225	47093	0.817	ppbv	95

(#)out of range (m>manual integration reviewed by analyst (+)signals summed

(QT Reviewed)

Data Path : H:\AIR2024\CHEM24\11NOV\26\
Data File : 1126_21.D
Acq On : 27 Nov 2024 9:45 am
Operator : Keith
Client ID : CCAL 1
Lab ID : 1ppb ccal; T01511
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Nov 27 11:29:19 2024
Quant Method : H:\AIR2024\CHEM24\Methods\24_AIR_1018.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Mon Oct 21 10:04:28 2024
Response via : Initial Calibration



1
AIR ANALYSIS DATA SHEET

CLIENT ID

Client:	<u>AMC-ENG</u>	Lab:	<u>Phoenix Env. Labs</u>	CS16244 LCS
SDG No.:	<u>GCS16244</u>	Lab Sample ID:	<u>CS16244 LCS</u>	
Canister:	<u>LCS</u>	Lab File ID:	<u>1126_04.D</u>	
Instrument:	<u>CHEM24</u>	Column:	<u>RTX-1</u>	Date Received:
				<u>11/26/24</u>
Purge Volume	<u>200</u>	(cc)		Date Analyzed:
				<u>11/26/24</u>
Matrix:	<u>AIR</u>	Dilution Factor:	<u>1</u>	

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
115-07-1	Propylene	11.5		0.581	0.581	r
75-71-8	Dichlorodifluoromethane	10.8		0.202	0.202	r
74-87-3	Chloromethane	12.1		0.485	0.485	r
76-14-2	1,2-Dichlorotetrafluoroethane	10.9		0.143	0.143	r
75-01-4	Vinyl Chloride	10.9		0.078	0.078	r
106-99-0	1,3-Butadiene	11.7		0.452	0.452	r
74-83-9	Bromomethane	10.3		0.258	0.258	r
75-00-3	Chloroethane	10.5		0.379	0.379	r
64-17-5	Ethanol	7.23		0.531	0.531	r
67-64-1	Acetone	11.1		0.421	0.421	r
75-69-4	Trichlorofluoromethane	10.3		0.178	0.178	r
67-63-0	Isopropylalcohol	10.8		0.407	0.407	r
107-13-1	Acrylonitrile	10.5		0.461	0.461	r
75-35-4	1,1-Dichloroethene	10.9		0.051	0.051	r
75-09-2	Methylene Chloride	11.1		0.863	0.863	r
75-15-0	Carbon Disulfide	9.98		0.321	0.321	r
76-13-1	Trichlorotrifluoroethane	10.3		0.131	0.131	r
156-60-5	Trans-1,2-Dichloroethene	10.4		0.252	0.252	r
75-34-3	1,1-Dichloroethane	10.6		0.247	0.247	r
1634-04-4	Methyl tert-butyl ether(MTBE)	10.1		0.278	0.278	r
78-93-3	Methyl Ethyl Ketone	11.5		0.339	0.339	r
156-59-2	Cis-1,2-Dichloroethene	10.5		0.051	0.051	r
110-54-3	Hexane	10.9		0.284	0.284	r
67-66-3	Chloroform	10.5		0.205	0.205	r
141-78-6	Ethyl acetate	13.0		0.278	0.278	r
109-99-9	Tetrahydrofuran	11.8		0.339	0.339	r
107-06-2	1,2-Dichloroethane	11.1		0.247	0.247	r
71-55-6	1,1,1-Trichloroethane	10.6		0.183	0.183	r
71-43-2	Benzene	9.80		0.313	0.313	r
56-23-5	Carbon Tetrachloride	10.9		0.032	0.032	r
110-82-7	Cyclohexane	9.57		0.291	0.291	r
78-87-5	1,2-dichloropropane	10.1		0.217	0.217	r
75-27-4	Bromodichloromethane	10.7		0.149	0.149	r
79-01-6	Trichloroethene	10.1		0.037	0.037	r
540-84-1	2,2,4-trimethylpentane	10.8		0.215	0.215	r
123-91-1	1,4-Dioxane	10.2		0.278	0.278	r

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

1
AIR ANALYSIS DATA SHEET

CLIENT ID

CS16244 LCS

Client:	AMC-ENG	Lab:	Phoenix Env. Labs
SDG No.:	GCS16244	Lab Sample ID:	CS16244 LCS
Canister:	LCS	Lab File ID:	1126_04.D
Instrument:	CHEM24	Column:	RTX-1
		Date Received:	11/26/24
Purge Volume	200	(cc)	
		Date Analyzed:	11/26/24
Matrix:	AIR	Dilution Factor:	1

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
142-82-5	Heptane	11.8		0.244	0.244	r
10061-01-5	cis-1,3-Dichloropropene	10.3		0.220	0.220	r
108-10-1	4-Methyl-2-pentanone(MIBK)	11.8		0.244	0.244	r
10061-02-6	trans-1,3-Dichloropropene	10.0		0.220	0.220	r
79-00-5	1,1,2-Trichloroethane	10.0		0.183	0.183	r
108-88-3	Toluene	10.1		0.266	0.266	r
124-48-1	Dibromochloromethane	10.5		0.117	0.117	r
591-78-6	2-Hexanone(MBK)	12.2		0.244	0.244	r
106-93-4	1,2-Dibromoethane(EDB)	10.0		0.130	0.130	r
127-18-4	Tetrachloroethene	9.77		0.037	0.037	r
630-20-6	1,1,1,2-Tetrachloroethane	9.93		0.146	0.146	r
108-90-7	Chlorobenzene	9.96		0.217	0.217	r
100-41-4	Ethylbenzene	10.1		0.230	0.230	r
179601-23-1	m,p-Xylene	21.0		0.230	0.230	r
75-25-2	Bromoform	10.6		0.097	0.097	r
100-42-5	Styrene	10.2		0.235	0.235	r
79-34-5	1,1,2,2-Tetrachloroethane	10.3		0.146	0.146	r
95-47-6	o-Xylene	10.3		0.230	0.230	r
98-82-8	Isopropylbenzene	9.65		0.204	0.204	r
622-96-8	4-Ethyltoluene	10.4		0.204	0.204	r
108-67-8	1,3,5-Trimethylbenzene	10.3		0.204	0.204	r
95-63-6	1,2,4-Trimethylbenzene	10.6		0.204	0.204	r
100-44-7	Benzyl chloride	10.1		0.193	0.193	r
541-73-1	1,3-Dichlorobenzene	10.6		0.166	0.166	r
106-46-7	1,4-Dichlorobenzene	11.0		0.166	0.166	r
135-98-8	sec-Butylbenzene	9.68		0.182	0.182	r
99-87-6	4-Isopropyltoluene	9.63		0.182	0.182	r
95-50-1	1,2-Dichlorobenzene	10.4		0.166	0.166	r
104-51-8	n-Butylbenzene	10.4		0.182	0.182	r
120-82-1	1,2,4-Trichlorobenzene	6.59		0.135	0.135	r
91-20-3	Naphthalene	6.49		0.200	0.200	r
87-68-3	Hexachlorobutadiene	6.95		0.094	0.094	r

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

Data Path : H:\AIR2024\CHEM24\11NOV\26\
 Data File : 1126_04.D
 Acq On : 26 Nov 2024 3:07 pm
 Operator : Keith
 Client ID : CS16244 LCS
 Lab ID : CS16244 LCS
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 27 08:17:30 2024
 Quant Method : H:\AIR2024\CHEM24\Methods\24_AIR_1018.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Mon Oct 21 10:04:28 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	7.515	130	196966	10.000	ng	0.00
37) 1,4-Difluorobenzene	8.683	114	663005	10.000	ng	0.00
54) Chlorobenzene-d5	11.155	82	309587	10.000	ng	0.00
81) Bromochloromethane(sim)	7.518	130	201006	10.000	ng	# 0.00
96) 1,4-Difluorobenzene(sim)	8.683	114	663005	10.000	ng	0.00
106) Chlorobenzene-d5(sim)	11.155	82	309723	10.000	ng	0.00
System Monitoring Compounds						
63) % Bromofluorobenzene	11.989	95	395318	9.867	ppbv	0.00
Spiked Amount	10.000	Range 70 - 130	Recovery	=	98.70%	
Target Compounds						
					Qvalue	
2) Propylene	4.070	41	237512	11.518	ppbv	98
3) Dichlorodifluoromethane	4.145	85	549796	10.794	ppbv	98
4) Chloromethane	4.294	50	304890	12.145	ppbv	99
5) 1,2-Dichlorotetrafluor...	4.385	85	525578	10.906	ppbv	97
6) Vinyl Chloride	4.501	62	238591	10.898	ppbv	97
7) 1,3-Butadiene	4.617	54	221643	11.704	ppbv	95
8) Bromomethane	4.850	94	198784	10.255	ppbv	99
9) Chloroethane	4.991	64	90464	10.498	ppbv	87
11) Ethanol	5.065	45	82692	7.225	ppbv#	95
12) Acetone	5.443	43	433702	11.144	ppbv	93
13) Trichlorofluoromethane	5.584	101	578323	10.290	ppbv	99
14) Isopropylalcohol	5.609	45	519968	10.750	ppbv#	93
15) Acrylonitrile	5.778	53	204401	10.490	ppbv	98
16) 1,1-Dichloroethene	6.040	61	393885	10.850	ppbv	93
17) Methylene Chloride	6.112	49	362854	11.053	ppbv#	86
20) Carbon Disulfide	6.350	76	525729	9.976	ppbv	99
21) Trichlorotrifluoroethane	6.290	101	452913	10.286	ppbv	97
22) Trans-1,2-Dichloroethene	6.745	61	361201	10.399	ppbv	93
23) 1,1-Dichloroethane	6.874	63	430345	10.565	ppbv	98
24) Methyl tert-butyl ethe...	6.899	73	462382	10.093	ppbv#	91
26) Methyl Ethyl Ketone	7.102	43	597529	11.480	ppbv#	93
27) Cis-1,2-Dichloroethene	7.410	61	342325	10.469	ppbv	93
28) Hexane	7.531	57	390684	10.874	ppbv	94
29) Chloroform	7.588	83	436986	10.460	ppbv	97
30) Ethyl acetate	7.507	61	99081	12.957	ppbv	92
31) Tetrahydrofuran	7.839	42	291192	11.822	ppbv#	89
32) 1,2-Dichloroethane	8.058	62	340960	11.144	ppbv	96
33) 1,1,1-Trichloroethane	8.221	97	466370	10.591	ppbv	97
34) Benzene	8.502	78	542936	9.796	ppbv#	95
35) Carbon Tetrachloride	8.597	117	553936	10.917	ppbv	99
36) Cyclohexane	8.675	84	208622	9.566	ppbv#	93
38) 1,2-dichloropropane	8.978	63	288366	10.142	ppbv	95
39) Bromodichloromethane	9.090	83	492390	10.661	ppbv	98
40) Trichloroethene	9.116	130	335866	10.096	ppbv	100
41) 2,2,4-trimethylpentane	9.125	57	1288113	10.810	ppbv	97
42) 1,4-Dioxane	9.099	88	122466	10.230	ppbv#	84
44) Heptane	9.254	43	560333	11.801	ppbv#	90
45) cis-1,3-Dichloropropene	9.596	75	355874	10.344	ppbv	97
46) 4-Methyl-2-pentanone(M...	9.596	43	720021	11.841	ppbv#	93
47) trans-1,3-Dichloropropene	9.884	75	280724	10.008	ppbv	100
48) 1,1,2-Trichloroethane	10.004	97	274493	10.012	ppbv	99
49) Toluene	10.166	91	730358	10.071	ppbv	99

Data Path : H:\AIR2024\CHEM24\11NOV\26\
 Data File : 1126_04.D
 Acq On : 26 Nov 2024 3:07 pm
 Operator : Keith
 Client ID : CS16244 LCS
 Lab ID : CS16244 LCS
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 27 08:17:30 2024
 Quant Method : H:\AIR2024\CHEM24\Methods\24_AIR_1018.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Mon Oct 21 10:04:28 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
50) Dibromochloromethane	10.412	129	638393	10.496	ppbv	99
51) 2-Hexanone(MBK)	10.264	43	638835	12.242	ppbv#	90
52) 1,2-Dibromoethane(EDB)	10.553	107	477725	10.012	ppbv	99
53) Tetrachloroethene	10.799	166	437905	9.773	ppbv	97
55) 1,1,1,2-Tetrachloroethane	11.162	131	399275	9.932	ppbv	99
56) Chlorobenzene	11.177	112	655864	9.957	ppbv	94
57) Ethylbenzene	11.367	91	953978	10.123	ppbv	100
58) m, p-Xylene	11.465	91	1483803	20.952	ppbv	100
59) Bromoform	11.541	173	637292	10.551	ppbv	99
60) Styrene	11.670	104	553269	10.209	ppbv#	95
61) 1,1,2,2-Tetrachloroethane	11.723	83	589728	10.271	ppbv	96
62) o-Xylene	11.731	91	776561	10.282	ppbv	99
65) Isopropylbenzene	12.049	105	1079679	9.654	ppbv	99
67) 4-Ethyltoluene	12.424	105	1108974	10.356	ppbv	96
68) 1,3,5-Trimethylbenzene	12.462	105	946214	10.275	ppbv	95
69) 1,2,4-Trimethylbenzene	12.711	105	983642	10.566	ppbv	99
71) Benzyl chloride	12.812	91	600370	10.112	ppbv	99
72) 1,3-Dichlorobenzene	12.828	146	678397	10.600	ppbv	99
73) 1,4-Dichlorobenzene	12.867	146	580110	11.025	ppbv	99
74) sec-Butylbenzene	12.874	105	1342176	9.681	ppbv	100
75) 4-Isopropyltoluene	12.960	119	1250090	9.632	ppbv	99
76) 1,2-Dichlorobenzene	13.084	146	633348	10.434	ppbv	98
77) n-Butylbenzene	13.232	91	946261	10.444	ppbv	99
78) 1,2,4-Trichlorobenzene	14.282	180	222934	6.589	ppbv	98
79) Naphthalene	14.383	128	585593	6.489	ppbv#	99
80) Hexachlorobutadiene	14.639	225	458751	6.951	ppbv	98
82] 1,2-Dichlorotetrafluor...	4.385	85	525244	10.310	ppbv	97
83] Vinyl Chloride(sim)	4.496	62	258433	10.894	ppbv	99
84] Bromomethane(sim)	4.850	94	198784	9.341	ppbv	99
85] Trichlorofluoromethane...	5.587	101	605004	10.265	ppbv#	99
86] 1,2-Dichloroethane(sim)	8.058	62	340960	10.667	ppbv	96
87] 1,1,1-Trichloroethane(...	8.224	97	507116	10.556	ppbv#	97
88] Benzene(sim)	8.502	78	542936	8.910	ppbv#	95
89] Carbon Tetrachloride(sim)	8.600	117	565018	10.905	ppbv	100
90] 1,1-Dichloroethene(sim)	6.040	61	393885	10.346	ppbv	93
91] Trichlorotrifluoroetha...	6.293	101	469945	9.989	ppbv#	99
92] Trans-1,2-Dichloroethe...	6.745	61	361201	9.888	ppbv	93
93] 1,1-Dichloroethane(sim)	6.877	63	462002	10.274	ppbv	99
94] Cis-1,2-Dichloroethene...	7.410	61	342325	10.034	ppbv	93
95] Chloroform(sim)	7.591	83	459325	10.257	ppbv	97
97] 1,2-dichloropropane(sim)	8.980	63	306607	10.165	ppbv#	90
98] Bromodichloromethane(sim)	9.090	83	492390	10.373	ppbv	98
99] Trichloroethene(sim)	9.119	130	349604	10.151	ppbv	100
100] 1,4-Dioxane(sim)	9.099	88	122466	10.083	ppbv#	84
101] cis-1,3-Dichloropropen...	9.599	75	386005	10.612	ppbv	99
102] 1,1,2-Trichloroethane(...	10.004	97	274493	9.728	ppbv	99
103] Dibromochloromethane(sim)	10.415	129	646429	10.784	ppbv	100
104] 1,2-Dibromoethane(EDB)...	10.553	107	477725	9.892	ppbv	99
105] Tetrachloroethene(sim)	10.802	166	455004	9.505	ppbv	99
107] Bromoform(sim)	11.544	173	625394	10.559	ppbv	100
108] m, p-Xylene(sim)	11.465	91	1487475	17.246	ppbv	100
109] 1,1,2,2-Tetrachloroeth...	11.726	83	614794	9.976	ppbv	100
112] Benzyl chloride(sim)	12.812	91	600370	7.109	ppbv	99
113] 1,3-Dichlorobenzene(sim)	12.831	146	726555	12.898	ppbv	99
114] 1,4-Dichlorobenzene(sim)	12.867	146	580110	12.954	ppbv	99

Data Path : H:\AIR2024\CHEM24\11NOV\26\
Data File : 1126_04.D
Acq On : 26 Nov 2024 3:07 pm
Operator : Keith
Client ID : CS16244 LCS
Lab ID : CS16244 LCS
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 27 08:17:30 2024
Quant Method : H:\AIR2024\CHEM24\Methods\24_AIR_1018.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Mon Oct 21 10:04:28 2024
Response via : Initial Calibration

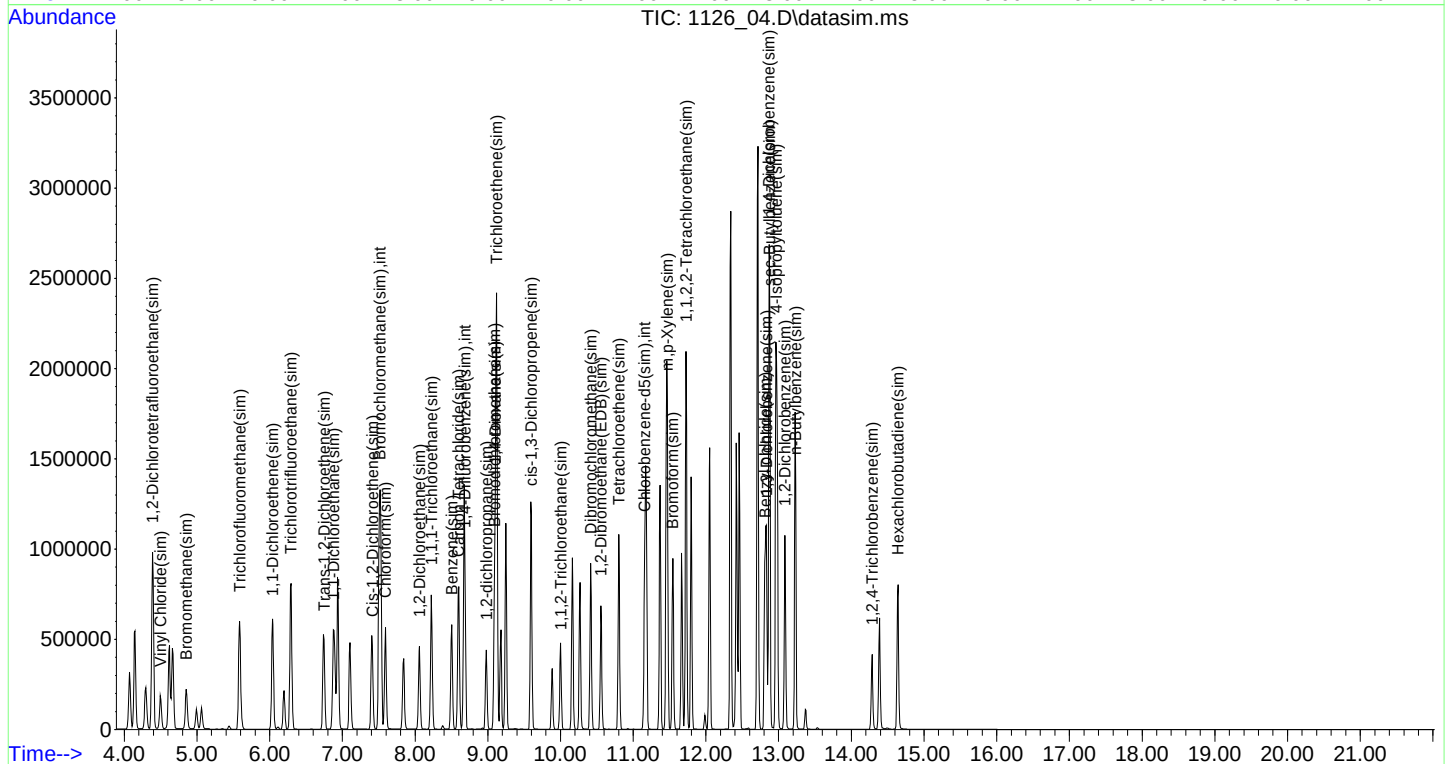
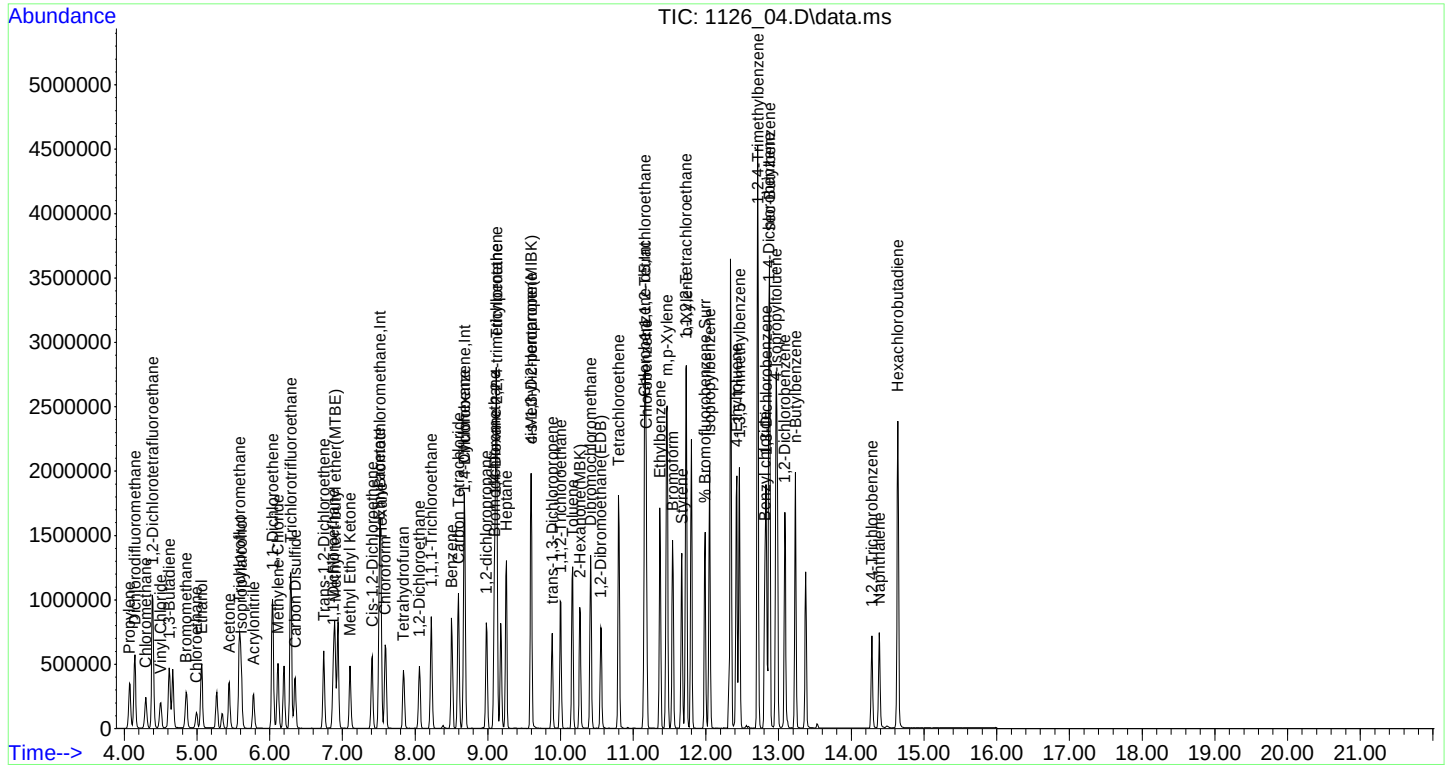
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
115]	sec-Butylbenzene(sim)	12.877	105	1499665	9.563	ppbv	99
116]	4-Isopropyltoluene(sim)	12.960	119	1250833	9.220	ppbv	99
117]	1,2-Dichlorobenzene(sim)	13.087	146	714315	11.679	ppbv	100
118]	n-Butylbenzene(sim)	13.232	91	946261	12.208	ppbv	99
119]	1,2,4-Trichlorobenzene...	14.285	180	250763	2.819	ppbv	100
120]	Hexachlorobutadiene(sim)	14.639	225	458040	7.015	ppbv	97

(#)out of range (m>manual integration reviewed by analyst (+)signals summed

(QT Reviewed)

```
Data Path : H:\AIR2024\CHEM24\11NOV\26\  
Data File : 1126_04.D  
Acq On    : 26 Nov 2024    3:07 pm  
Operator  : Keith  
Client ID : CS16244 LCS  
Lab ID    : CS16244 LCS  
ALS Vial  : 4    Sample Multiplier: 1
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Quant Time: Nov 27 08:17:30 2024
Quant Method : H:\AIR2024\CHEM24\Methods\24_AIR_1018.M
Quant Title : VOA Standards for 5 point calibration
Qlast Update : Mon Oct 21 10:04:28 2024
Response via : Initial Calibration



1
AIR ANALYSIS DATA SHEET

CLIENT ID

Client:	<u>AMC-ENG</u>	Lab:	<u>Phoenix Env. Labs</u>	CS16244 BLANK
SDG No.:	<u>GCS16244</u>	Lab Sample ID:	<u>CS16244 BL</u>	
Canister:	<u>BL</u>	Lab File ID:	<u>1126_05.D</u>	
Instrument:	<u>CHEM24</u>	Column:	<u>RTX-1</u>	Date Received: <u>11/26/24</u>
Purge Volume	<u>200</u> (cc)	Date Analyzed:	<u>11/26/24</u>	
Matrix:	<u>AIR</u>	Dilution Factor:	<u>1</u>	

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
115-07-1	Propylene	0.580	U	0.580	0.580	r
75-71-8	Dichlorodifluoromethane	0.200	U	0.200	0.200	r
74-87-3	Chloromethane	0.480	U	0.480	0.480	r
106-99-0	1,3-Butadiene	0.450	U	0.450	0.450	r
75-00-3	Chloroethane	0.380	U	0.380	0.380	r
64-17-5	Ethanol	0.530	U	0.530	0.530	r
67-64-1	Acetone	0.420	U	0.420	0.420	r
67-63-0	Isopropylalcohol	0.410	U	0.410	0.410	r
107-13-1	Acrylonitrile	0.460	U	0.460	0.460	r
75-09-2	Methylene Chloride	0.860	U	0.860	0.860	r
75-15-0	Carbon Disulfide	0.320	U	0.320	0.320	r
1634-04-4	Methyl tert-butyl ether(MTBE)	0.280	U	0.280	0.280	r
78-93-3	Methyl Ethyl Ketone	0.340	U	0.340	0.340	r
110-54-3	Hexane	0.280	U	0.280	0.280	r
141-78-6	Ethyl acetate	0.280	U	0.280	0.280	r
109-99-9	Tetrahydrofuran	0.340	U	0.340	0.340	r
110-82-7	Cyclohexane	0.290	U	0.290	0.290	r
540-84-1	2,2,4-trimethylpentane	0.210	U	0.210	0.210	r
142-82-5	Heptane	0.240	U	0.240	0.240	r
108-10-1	4-Methyl-2-pentanone(MIBK)	0.240	U	0.240	0.240	r
10061-02-6	trans-1,3-Dichloropropene	0.220	U	0.220	0.220	r
108-88-3	Toluene	0.270	U	0.270	0.270	r
591-78-6	2-Hexanone(MBK)	0.240	U	0.240	0.240	r
630-20-6	1,1,1,2-Tetrachloroethane	0.150	U	0.150	0.150	r
108-90-7	Chlorobenzene	0.220	U	0.220	0.220	r
100-41-4	Ethylbenzene	0.230	U	0.230	0.230	r
100-42-5	Styrene	0.230	U	0.230	0.230	r
95-47-6	o-Xylene	0.230	U	0.230	0.230	r
98-82-8	Isopropylbenzene	0.200	U	0.200	0.200	r
622-96-8	4-Ethyltoluene	0.200	U	0.200	0.200	r
108-67-8	1,3,5-Trimethylbenzene	0.200	U	0.200	0.200	r
95-63-6	1,2,4-Trimethylbenzene	0.200	U	0.200	0.200	r
91-20-3	Naphthalene	0.200	U	0.200	0.200	r
76-14-2	1,2-Dichlorotetrafluoroethane(sim)	0.140	U	0.140	0.140	r
75-01-4	Vinyl Chloride(sim)	0.078	U	0.078	0.078	r
74-83-9	Bromomethane(sim)	0.260	U	0.260	0.260	r

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

1
AIR ANALYSIS DATA SHEET

CLIENT ID

CS16244 BLANK

Client:	AMC-ENG	Lab:	Phoenix Env. Labs
SDG No.:	GCS16244	Lab Sample ID:	CS16244 BL
Canister:	BL	Lab File ID:	1126_05.D
Instrument:	CHEM24	Column:	RTX-1
		Date Received:	11/26/24
Purge Volume	200	(cc)	
		Date Analyzed:	11/26/24
Matrix:	AIR	Dilution Factor:	1

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
75-69-4	Trichlorofluoromethane(sim)	0.180	U	0.180	0.180	r
107-06-2	1,2-Dichloroethane(sim)	0.250	U	0.250	0.250	r
71-55-6	1,1,1-Trichloroethane(sim)	0.180	U	0.180	0.180	r
71-43-2	Benzene(sim)	0.310	U	0.310	0.310	r
56-23-5	Carbon Tetrachloride(sim)	0.032	U	0.032	0.032	r
75-35-4	1,1-Dichloroethene(sim)	0.050	U	0.050	0.050	r
76-13-1	Trichlorotrifluoroethane(sim)	0.130	U	0.130	0.130	r
156-60-5	Trans-1,2-Dichloroethene(sim)	0.250	U	0.250	0.250	r
75-34-3	1,1-Dichloroethane(sim)	0.250	U	0.250	0.250	r
156-59-2	Cis-1,2-Dichloroethene(sim)	0.050	U	0.050	0.050	r
67-66-3	Chloroform(sim)	0.200	U	0.200	0.200	r
78-87-5	1,2-dichloropropane(sim)	0.220	U	0.220	0.220	r
75-27-4	Bromodichloromethane(sim)	0.150	U	0.150	0.150	r
79-01-6	Trichloroethene(sim)	0.037	U	0.037	0.037	r
123-91-1	1,4-Dioxane(sim)	0.280	U	0.280	0.280	r
10061-01-5	cis-1,3-Dichloropropene(sim)	0.220	U	0.220	0.220	r
79-00-5	1,1,2-Trichloroethane(sim)	0.180	U	0.180	0.180	r
124-48-1	Dibromochloromethane(sim)	0.120	U	0.120	0.120	r
106-93-4	1,2-Dibromoethane(EDB)(sim)	0.130	U	0.130	0.130	r
127-18-4	Tetrachloroethene(sim)	0.037	U	0.037	0.037	r
75-25-2	Bromoform(sim)	0.097	U	0.097	0.097	r
179601-23-1	m,p-Xylene(sim)	0.230	U	0.230	0.230	r
79-34-5	1,1,2,2-Tetrachloroethane(sim)	0.150	U	0.150	0.150	r
100-44-7	Benzyl chloride(sim)	0.190	U	0.190	0.190	r
541-73-1	1,3-Dichlorobenzene(sim)	0.170	U	0.170	0.170	r
106-46-7	1,4-Dichlorobenzene(sim)	0.170	U	0.170	0.170	r
135-98-8	sec-Butylbenzene(sim)	0.180	U	0.180	0.180	r
99-87-6	4-Isopropyltoluene(sim)	0.180	U	0.180	0.180	r
95-50-1	1,2-Dichlorobenzene(sim)	0.170	U	0.170	0.170	r
104-51-8	n-Butylbenzene(sim)	0.180	U	0.180	0.180	r
120-82-1	1,2,4-Trichlorobenzene(sim)	0.130	U	0.130	0.130	r
87-68-3	Hexachlorobutadiene(sim)	0.094	U	0.094	0.094	r

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

Data Path : H:\AIR2024\CHEM24\11NOV\26\
Data File : 1126_05.D
Acq On : 26 Nov 2024 3:41 pm
Operator : Keith
Client ID : CS16244 BLANK
Lab ID : CS16244 BLANK
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Nov 27 08:22:01 2024
Quant Method : H:\AIR2024\CHEM24\Methods\24_AIR_1018.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Mon Oct 21 10:04:28 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	7.515	130	212108	10.000	ng	0.00
37) 1,4-Difluorobenzene	8.683	114	679956	10.000	ng	0.00
54) Chlorobenzene-d5	11.155	82	292460	10.000	ng	0.00
81) Bromochloromethane(sim)	7.518	130	216164	10.000	ng	# 0.00
96) 1,4-Difluorobenzene(sim)	8.683	114	679956	10.000	ng	0.00
106) Chlorobenzene-d5(sim)	11.155	82	292600	10.000	ng	# 0.00

System Monitoring Compounds

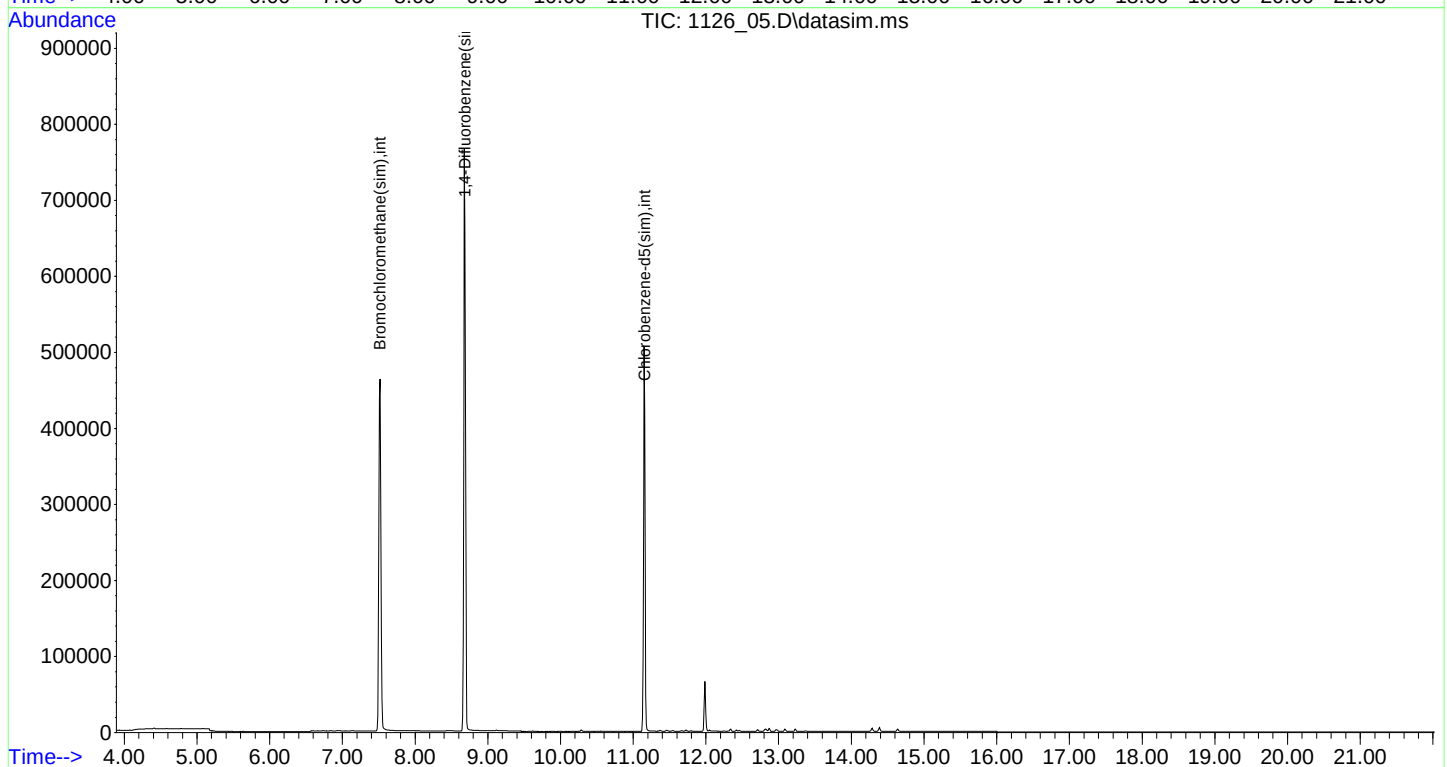
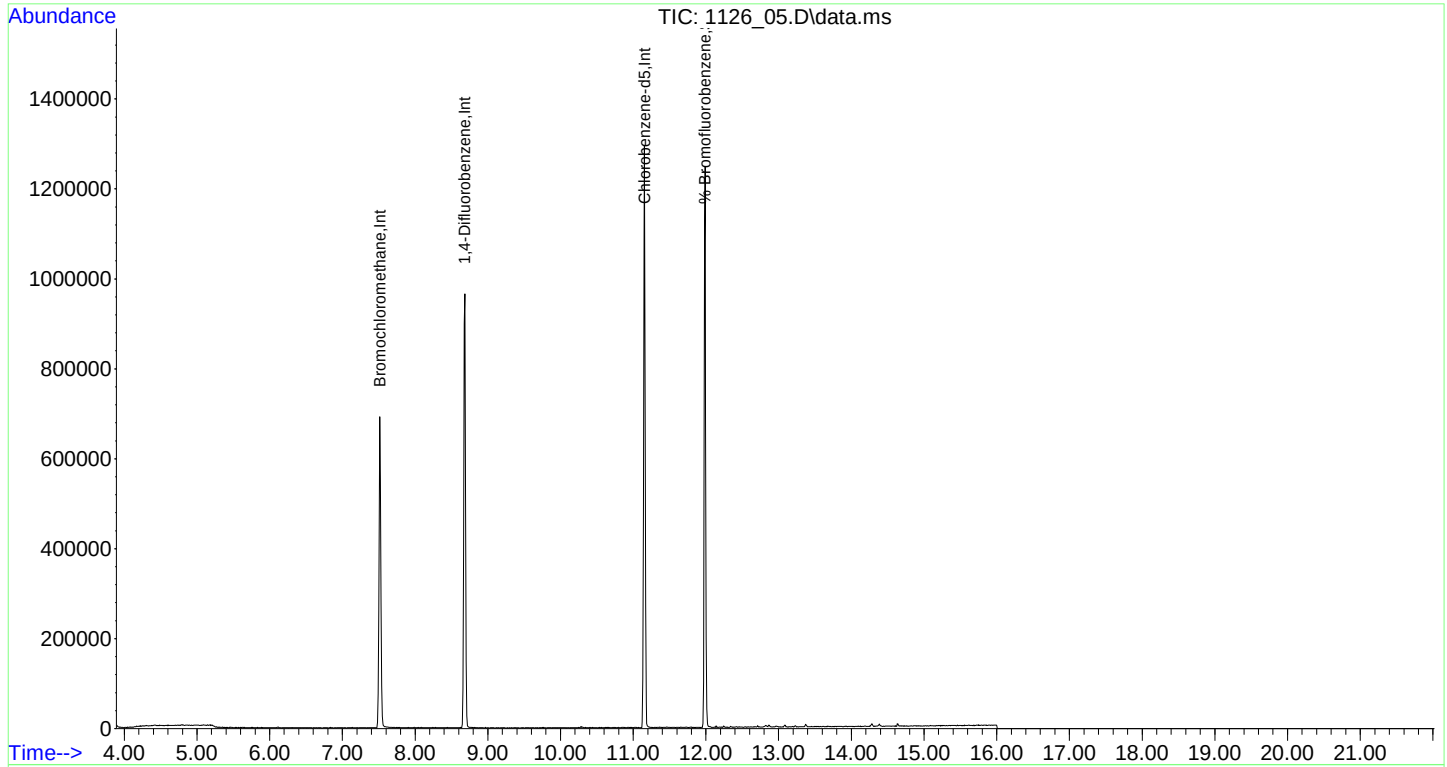
63) % Bromofluorobenzene	11.989	95	320683	8.473	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	84.70%

Target Compounds	Qvalue

(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Data Path : H:\AIR2024\CHEM24\11NOV\26\
Data File : 1126_05.D
Acq On : 26 Nov 2024 3:41 pm
Operator : Keith
Client ID : CS16244 BLANK
Lab ID : CS16244 BLANK
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Nov 27 08:22:01 2024
Quant Method : H:\AIR2024\CHEM24\Methods\24_AIR_1018.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Mon Oct 21 10:04:28 2024
Response via : Initial Calibration



1
AIR ANALYSIS DATA SHEET

CLIENT ID

Client:	<u>AMC-ENG</u>	Lab:	<u>Phoenix Env. Labs</u>	IA-2 DUP
SDG No.:	<u>GCS16244</u>	Lab Sample ID:	<u>CS16244 DUP</u>	
Canister:	<u>19806</u>	Lab File ID:	<u>1126_09.D</u>	
Instrument:	<u>CHEM24</u>	Column:	<u>RTX-1</u>	Date Received:
				<u>11/26/24</u>
Purge Volume	<u>200</u> (cc)	Date Analyzed:	<u>11/26/24</u>	
Matrix:	<u>AIR</u>	Dilution Factor:	<u>1</u>	

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
115-07-1	Propylene	0.581	U	0.581	0.581	r
75-71-8	Dichlorodifluoromethane	0.448		0.202	0.202	r
74-87-3	Chloromethane	0.613		0.485	0.485	r
106-99-0	1,3-Butadiene	0.452	U	0.452	0.452	r
75-00-3	Chloroethane	0.379	U	0.379	0.379	r
64-17-5	Ethanol	16.7	S	0.531	0.531	r
67-64-1	Acetone	12.4	S	0.421	0.421	r
75-69-4	Trichlorofluoromethane	0.206		0.178	0.178	r
67-63-0	Isopropylalcohol	0.700	S	0.407	0.407	r
107-13-1	Acrylonitrile	0.461	U	0.461	0.461	r
75-09-2	Methylene Chloride	0.863	U	0.863	0.863	r
75-15-0	Carbon Disulfide	0.321	U	0.321	0.321	r
1634-04-4	Methyl tert-butyl ether(MTBE)	0.278	U	0.278	0.278	r
78-93-3	Methyl Ethyl Ketone	0.339	U	0.339	0.339	r
110-54-3	Hexane	0.394	S	0.284	0.284	r
141-78-6	Ethyl acetate	0.278	U	0.278	0.278	r
109-99-9	Tetrahydrofuran	0.339	U	0.339	0.339	r
71-43-2	Benzene	0.618		0.313	0.313	r
110-82-7	Cyclohexane	0.291	U	0.291	0.291	r
540-84-1	2,2,4-trimethylpentane	0.337		0.215	0.215	r
142-82-5	Heptane	0.244	U	0.244	0.244	r
108-10-1	4-Methyl-2-pentanone(MIBK)	0.244	U	0.244	0.244	r
10061-02-6	trans-1,3-Dichloropropene	0.220	U	0.220	0.220	r
108-88-3	Toluene	1.04		0.266	0.266	r
591-78-6	2-Hexanone(MBK)	0.244	U	0.244	0.244	r
630-20-6	1,1,1,2-Tetrachloroethane	0.146	U	0.146	0.146	r
108-90-7	Chlorobenzene	0.217	U	0.217	0.217	r
100-41-4	Ethylbenzene	0.254		0.230	0.230	r
179601-23-1	m,p-Xylene	0.941		0.230	0.230	r
100-42-5	Styrene	0.235	U	0.235	0.235	r
95-47-6	o-Xylene	0.305		0.230	0.230	r
98-82-8	Isopropylbenzene	0.204	U	0.204	0.204	r
622-96-8	4-Ethyltoluene	0.204	U	0.204	0.204	r
108-67-8	1,3,5-Trimethylbenzene	0.204	U	0.204	0.204	r
95-63-6	1,2,4-Trimethylbenzene	0.204	U	0.204	0.204	r
91-20-3	Naphthalene	0.200	U	0.200	0.200	r

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

1
AIR ANALYSIS DATA SHEET

CLIENT ID

Client:	<u>AMC-ENG</u>	Lab:	<u>Phoenix Env. Labs</u>	IA-2 DUP
SDG No.:	<u>GCS16244</u>	Lab Sample ID:	<u>CS16244 DUP</u>	
Canister:	<u>19806</u>	Lab File ID:	<u>1126_09.D</u>	
Instrument:	<u>CHEM24</u>	Column:	<u>RTX-1</u>	Date Received:
				<u>11/26/24</u>
Purge Volume	<u>200</u>	(cc)		Date Analyzed:
				<u>11/26/24</u>
Matrix:	<u>AIR</u>	Dilution Factor:	<u>1</u>	

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
76-14-2	1,2-Dichlorotetrafluoroethane(sim)	0.143	U	0.143	0.143	r
75-01-4	Vinyl Chloride(sim)	0.078	U	0.078	0.078	r
74-83-9	Bromomethane(sim)	0.258	U	0.258	0.258	r
107-06-2	1,2-Dichloroethane(sim)	0.247	U	0.247	0.247	r
71-55-6	1,1,1-Trichloroethane(sim)	0.183	U	0.183	0.183	r
56-23-5	Carbon Tetrachloride(sim)	0.077		0.032	0.032	r
75-35-4	1,1-Dichloroethene(sim)	0.051	U	0.051	0.051	r
76-13-1	Trichlorotrifluoroethane(sim)	0.131	U	0.131	0.131	r
156-60-5	Trans-1,2-Dichloroethene(sim)	0.252	U	0.252	0.252	r
75-34-3	1,1-Dichloroethane(sim)	0.247	U	0.247	0.247	r
156-59-2	Cis-1,2-Dichloroethene(sim)	0.051	U	0.051	0.051	r
67-66-3	Chloroform(sim)	0.205	U	0.205	0.205	r
78-87-5	1,2-dichloropropane(sim)	0.217	U	0.217	0.217	r
75-27-4	Bromodichloromethane(sim)	0.149	U	0.149	0.149	r
79-01-6	Trichloroethene(sim)	0.037	U	0.037	0.037	r
123-91-1	1,4-Dioxane(sim)	0.278	U	0.278	0.278	r
10061-01-5	cis-1,3-Dichloropropene(sim)	0.220	U	0.220	0.220	r
79-00-5	1,1,2-Trichloroethane(sim)	0.183	U	0.183	0.183	r
124-48-1	Dibromochloromethane(sim)	0.117	U	0.117	0.117	r
106-93-4	1,2-Dibromoethane(EDB)(sim)	0.130	U	0.130	0.130	r
127-18-4	Tetrachloroethene(sim)	0.037	U	0.037	0.037	r
75-25-2	Bromoform(sim)	0.097	U	0.097	0.097	r
79-34-5	1,1,2,2-Tetrachloroethane(sim)	0.146	U	0.146	0.146	r
100-44-7	Benzyl chloride(sim)	0.193	U	0.193	0.193	r
541-73-1	1,3-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
106-46-7	1,4-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
135-98-8	sec-Butylbenzene(sim)	0.182	U	0.182	0.182	r
99-87-6	4-Isopropyltoluene(sim)	0.182	U	0.182	0.182	r
95-50-1	1,2-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
104-51-8	n-Butylbenzene(sim)	0.182	U	0.182	0.182	r
120-82-1	1,2,4-Trichlorobenzene(sim)	0.135	U	0.135	0.135	r
87-68-3	Hexachlorobutadiene(sim)	0.094	U	0.094	0.094	r

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

Data Path : H:\AIR2024\CHEM24\11NOV\26\
 Data File : 1126_09.D
 Acq On : 26 Nov 2024 8:00 pm
 Operator : Keith
 Client ID : IA-2 DUP
 Lab ID : CS16244 DUP
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Nov 27 08:24:29 2024
 Quant Method : H:\AIR2024\CHEM24\Methods\24_AIR_1018.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Mon Oct 21 10:04:28 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

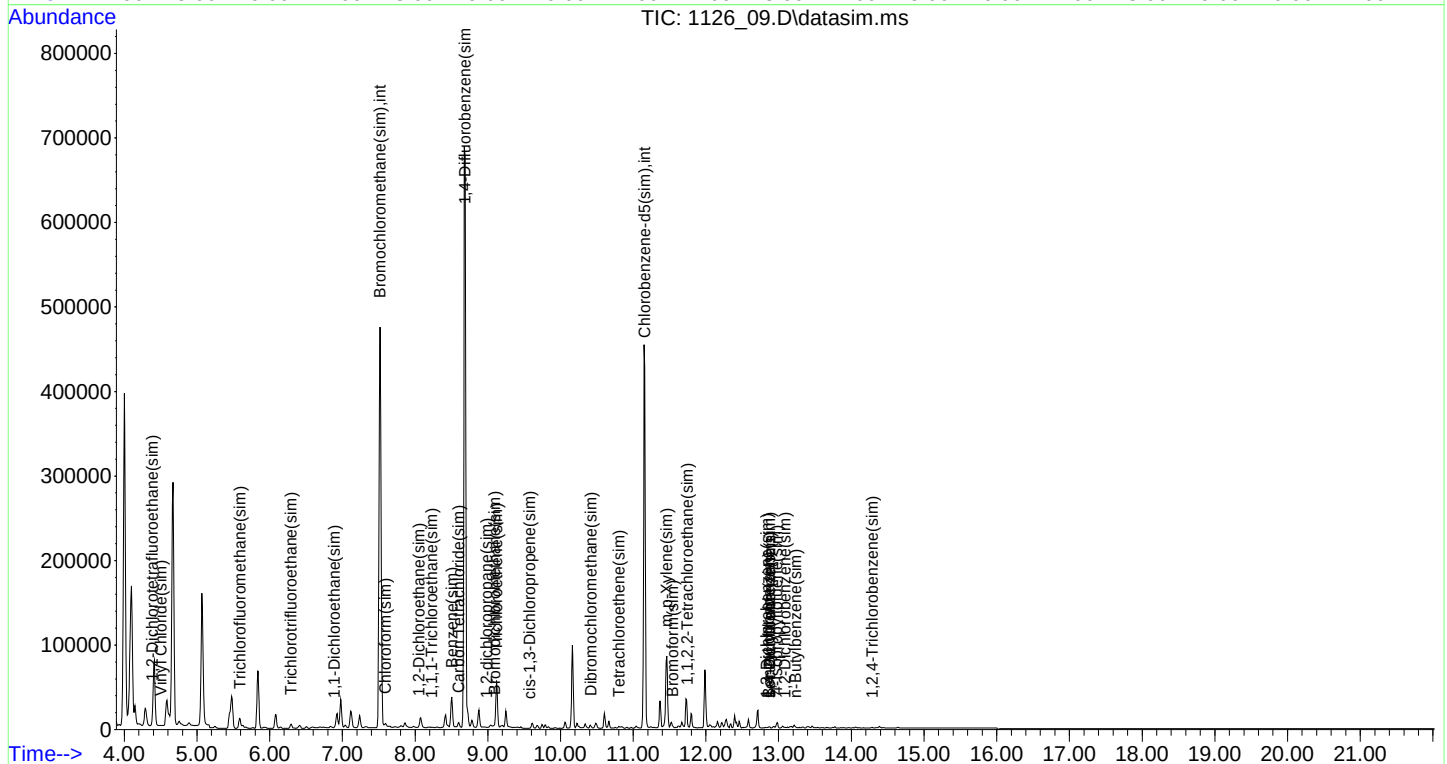
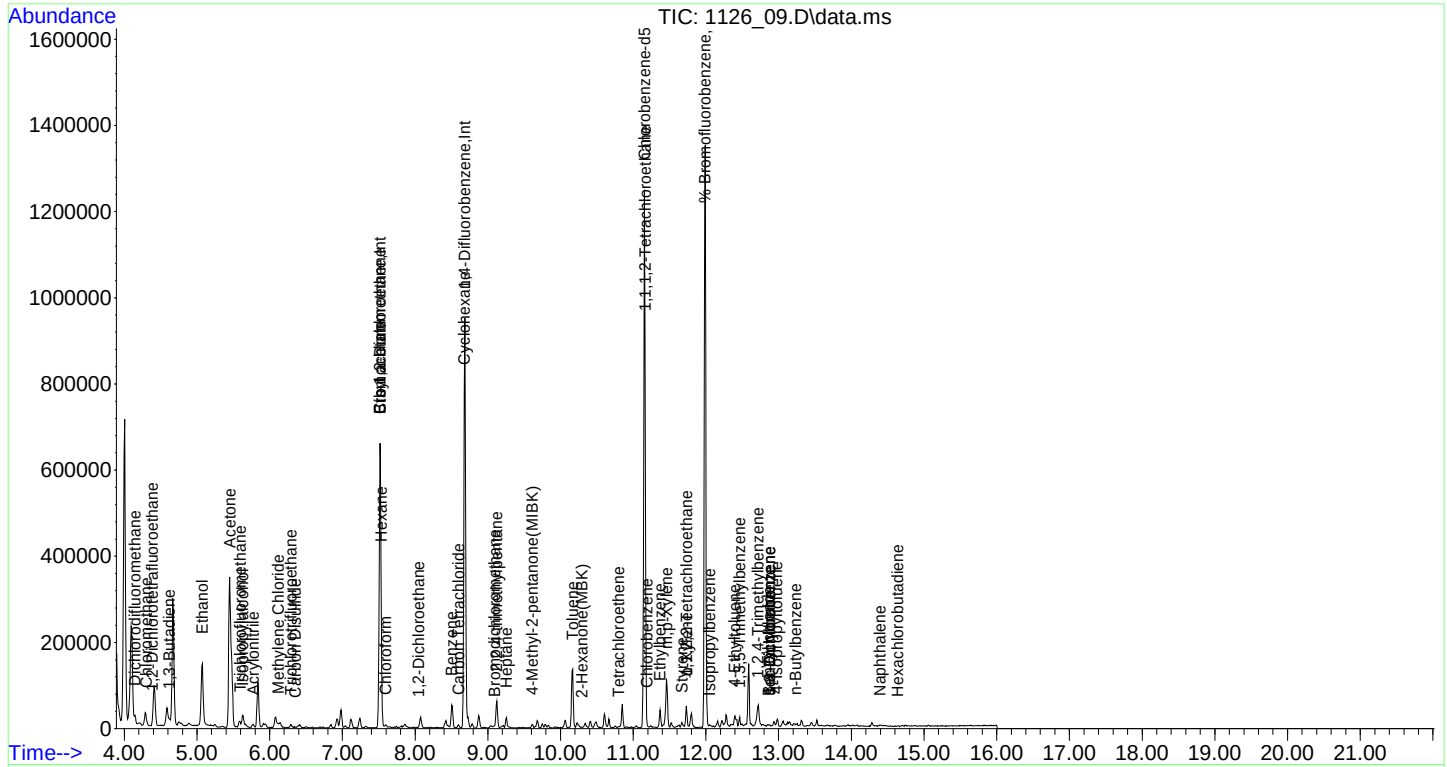
Internal Standards						
1) Bromochloromethane	7.515	130	196795	10.000	ng	0.00
37) 1,4-Difluorobenzene	8.684	114	627803	10.000	ng	0.00
54) Chlorobenzene-d5	11.155	82	272034	10.000	ng	0.00
81) Bromochloromethane(sim)	7.518	130	200537	10.000	ng	# 0.00
96) 1,4-Difluorobenzene(sim)	8.684	114	627803	10.000	ng	0.00
106) Chlorobenzene-d5(sim)	11.155	82	272034	10.000	ng	# 0.00
System Monitoring Compounds						
63) % Bromofluorobenzene	11.989	95	343387	9.754	ppbv	0.00
Spiked Amount	10.000	Range 70 - 130	Recovery	=	97.50%	
Target Compounds						
					Qvalue	
3) Dichlorodifluoromethane	4.145	85	22817	0.448	ppbv	97
4) Chloromethane	4.302	50	15384	0.613	ppbv	99
11) Ethanol	5.074	45	191002	16.703	ppbv	95
12) Acetone	5.449	43	482812	12.417	ppbv#	88
13) Trichlorofluoromethane	5.590	101	11538	0.205	ppbv	98
14) Isopropylalcohol	5.627	45	33814	0.700	ppbv#	88
28) Hexane	7.531	57	14137	0.394	ppbv#	79
34) Benzene	8.502	78	34196	0.618	ppbv#	94
35) Carbon Tetrachloride	8.597	117	3721	0.073	ppbv	93
49) Toluene	10.166	91	71334	1.039	ppbv	98
57) Ethylbenzene	11.367	91	21058	0.254	ppbv	96
58) m,p-Xylene	11.458	91	58538	0.941	ppbv	98
62) o-Xylene	11.731	91	20232	0.305	ppbv	97
85] Trichlorofluoromethane...	5.587	101	12282	0.209	ppbv#	100
88] Benzene(sim)	8.502	78	34196	0.563	ppbv#	94
89] Carbon Tetrachloride(sim)	8.600	117	3996	0.077	ppbv	100
108] m,p-Xylene(sim)	11.458	91	58538	0.773	ppbv	98

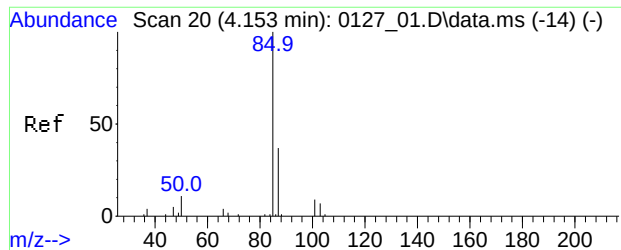
(#)out of range (m)manual integration reviewed by analyst (+)signals summed

(QT Reviewed)

Data Path : H:\AIR2024\CHEM24\11NOV\26\
Data File : 1126_09.D
Acq On : 26 Nov 2024 8:00 pm
Operator : Keith
Client ID : IA-2 DUP
Lab ID : CS16244 DUP
ALS Vial : 10 Sample Multiplier: 1

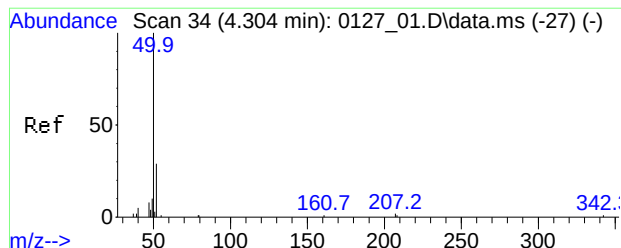
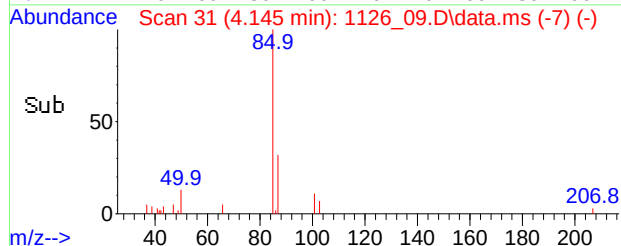
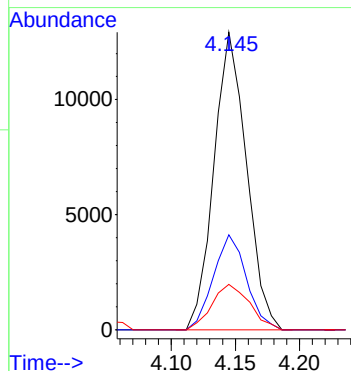
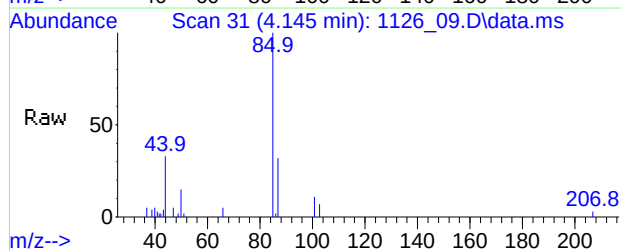
Quant Time: Nov 27 08:24:29 2024
Quant Method : H:\AIR2024\CHEM24\Methods\24_AIR_1018.M
Quant Title : VOA Standards for 5 point calibration
Qlast Update : Mon Oct 21 10:04:28 2024
Response via : Initial Calibration





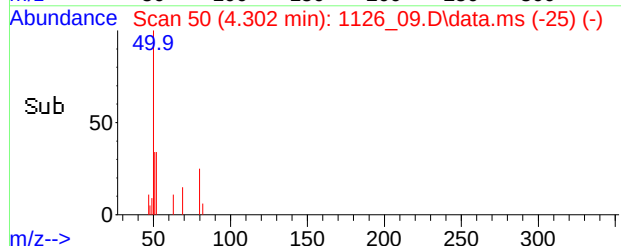
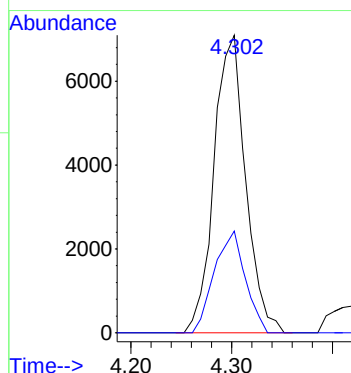
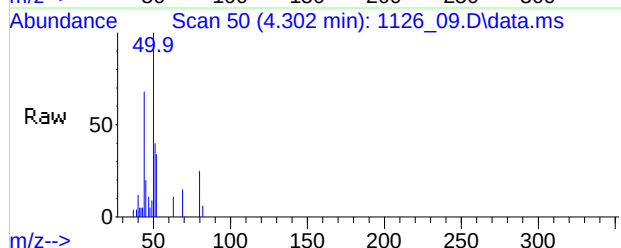
#3
Dichlorodifluoromethane
Conc: 8\$ 0.448 ppbv
RT: 4.145 min Scan# 31
Delta R.T. -0.000 min
Lab File: 1126_09.D
Acq: 26 Nov 2024 8:00 pm

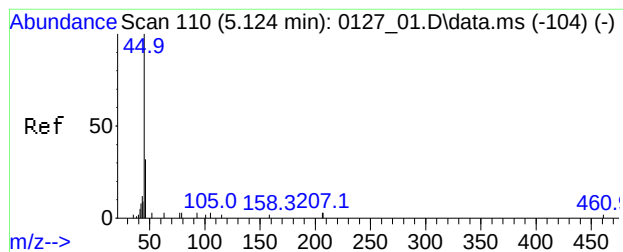
Tgt Ion: 85 Resp: 22817
Ion Ratio Lower Upper
85 100
87 32.5 26.9 40.3
50 17.7 12.0 18.0



#4
Chloromethane
Conc: 8\$ 0.613 ppbv
RT: 4.302 min Scan# 50
Delta R.T. 0.008 min
Lab File: 1126_09.D
Acq: 26 Nov 2024 8:00 pm

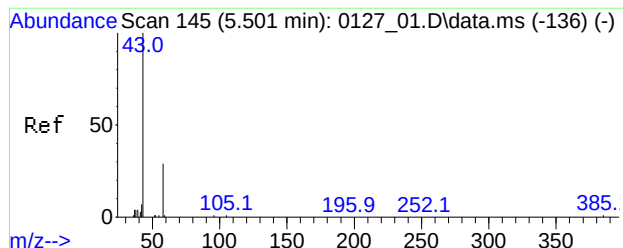
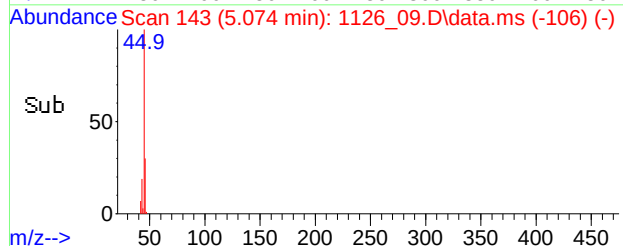
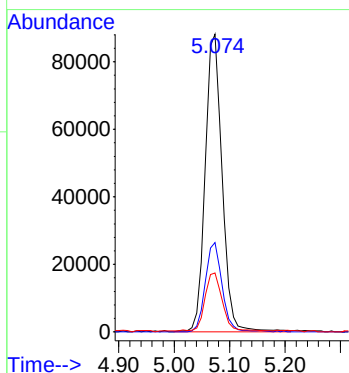
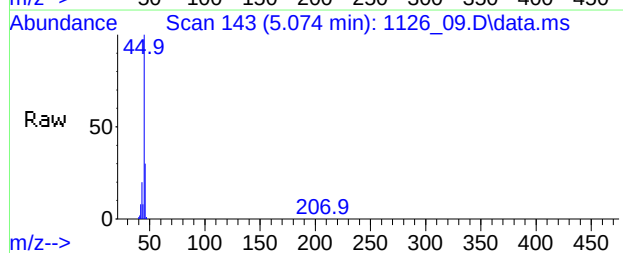
Tgt Ion: 50 Resp: 15384
Ion Ratio Lower Upper
50 100
52 33.5 12.8 52.8





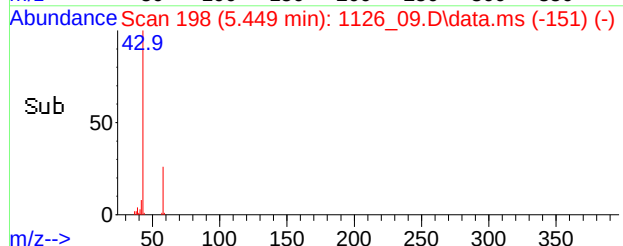
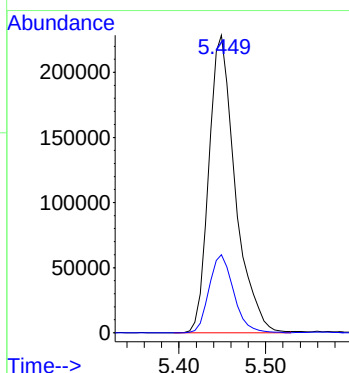
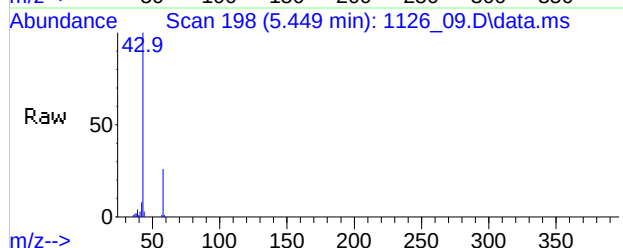
#11
Ethanol
Conc: 8\$ 16.703 ppbv
RT: 5.074 min Scan# 143
Delta R.T. 0.008 min
Lab File: 1126_09.D
Acq: 26 Nov 2024 8:00 pm

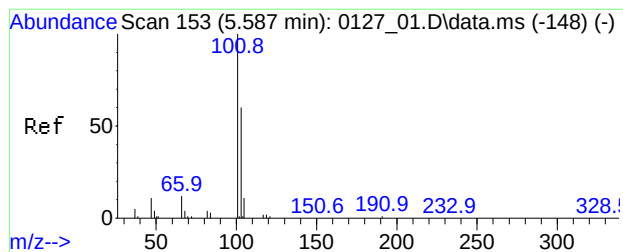
Tgt Ion:	45	Resp:	191002
Ion	Ratio	Lower	Upper
45	100		
46	29.9	25.0	37.6
43	21.5	20.0	30.0



#12
Acetone
Conc: 8\$ 12.417 ppbv
RT: 5.449 min Scan# 198
Delta R.T. 0.006 min
Lab File: 1126_09.D
Acq: 26 Nov 2024 8:00 pm

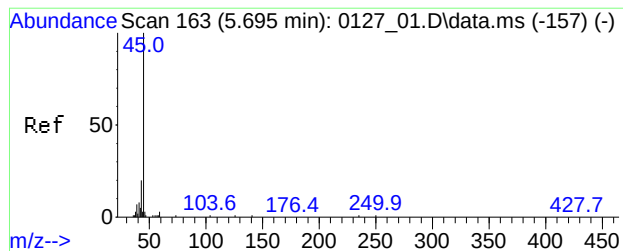
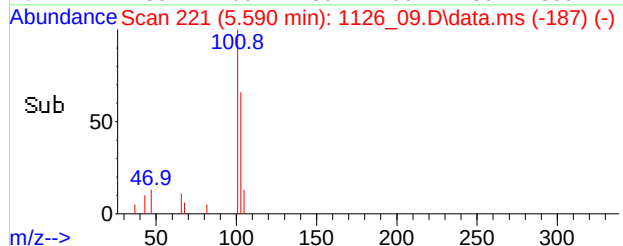
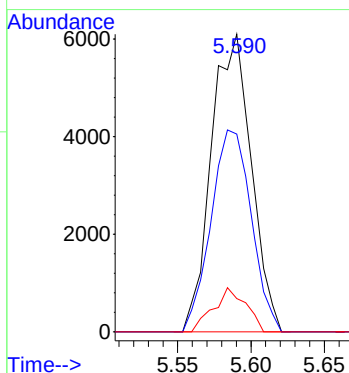
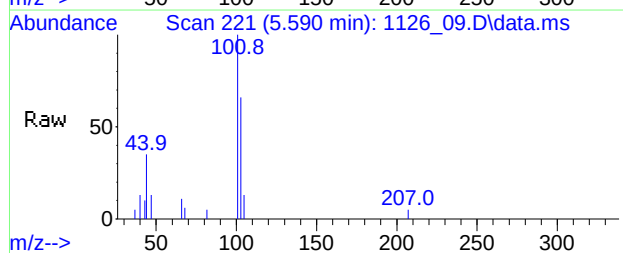
Tgt Ion:	43	Resp:	482812
Ion	Ratio	Lower	Upper
43	100		
58	24.4	24.6	37.0#





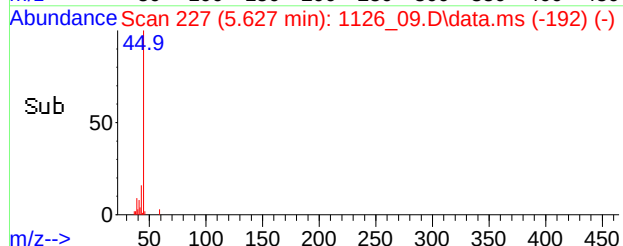
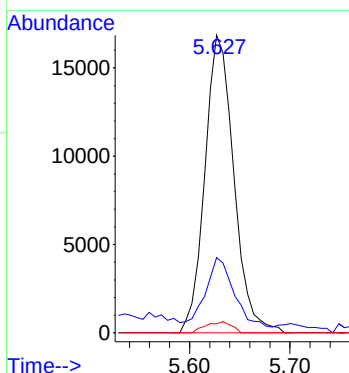
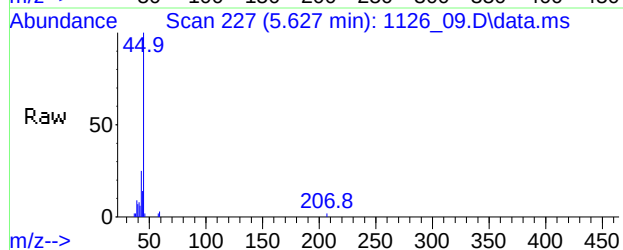
#13
 Trichlorofluoromethane
 Conc: 8% 0.205 ppbv
 RT: 5.590 min Scan# 221
 Delta R.T. 0.006 min
 Lab File: 1126_09.D
 Acq: 26 Nov 2024 8:00 pm

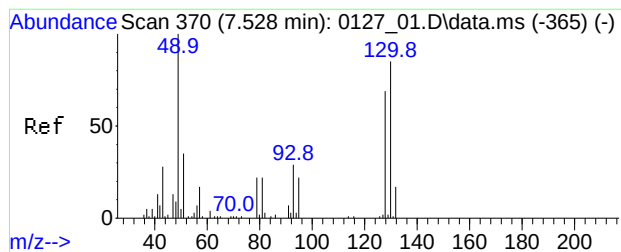
Tgt Ion:	101	Resp:	11538
Ion	Ratio	Lower	Upper
101	100		
103	68.4	53.4	80.2
66	12.0	9.3	13.9



#14
 Isopropylalcohol
 Conc: 8% 0.700 ppbv
 RT: 5.627 min Scan# 227
 Delta R.T. 0.012 min
 Lab File: 1126_09.D
 Acq: 26 Nov 2024 8:00 pm

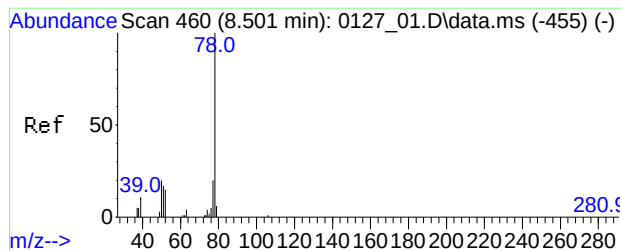
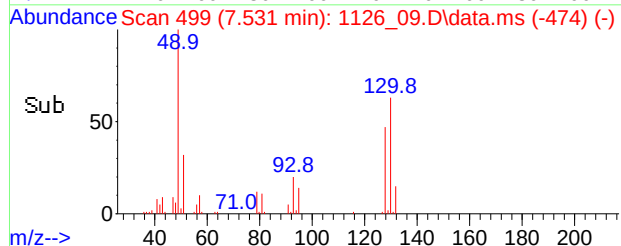
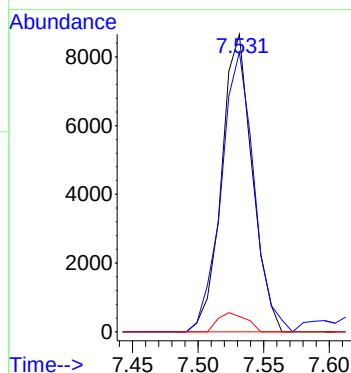
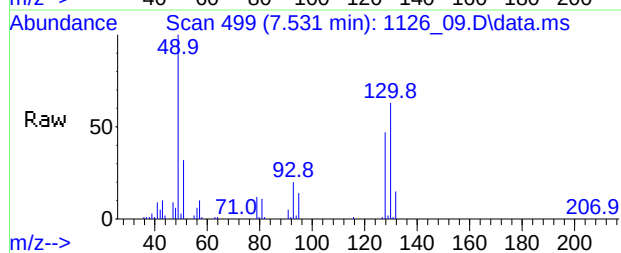
Tgt Ion:	45	Resp:	33814
Ion	Ratio	Lower	Upper
45	100		
43	22.5	13.3	19.9#
59	3.3	2.6	4.0





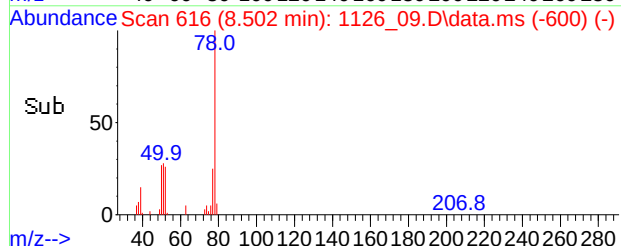
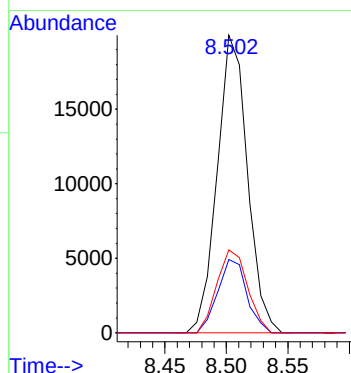
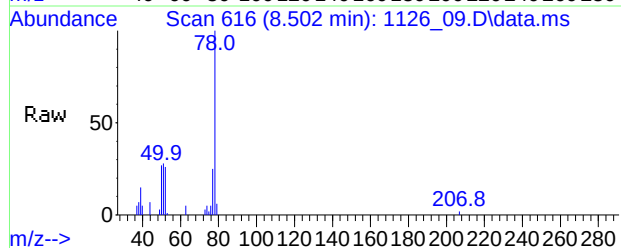
#28
Hexane
Conc: 8\$ 0.394 ppbv
RT: 7.531 min Scan# 499
Delta R.T. 0.000 min
Lab File: 1126_09.D
Acq: 26 Nov 2024 8:00 pm

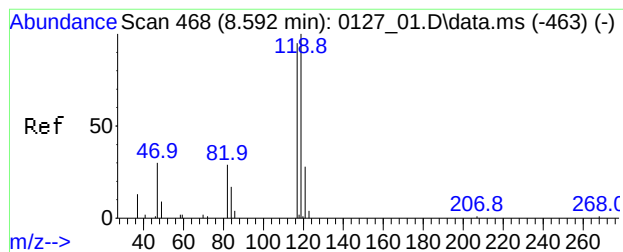
Tgt Ion: 57 Resp: 14137
Ion Ratio Lower Upper
57 100
41 99.3 63.4 95.2#
86 6.0 5.8 8.6



#34
Benzene
Conc: 8\$ 0.618 ppbv
RT: 8.502 min Scan# 616
Delta R.T. 0.000 min
Lab File: 1126_09.D
Acq: 26 Nov 2024 8:00 pm

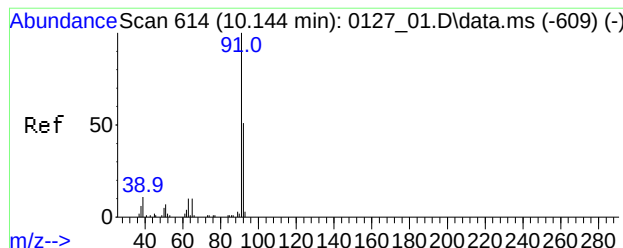
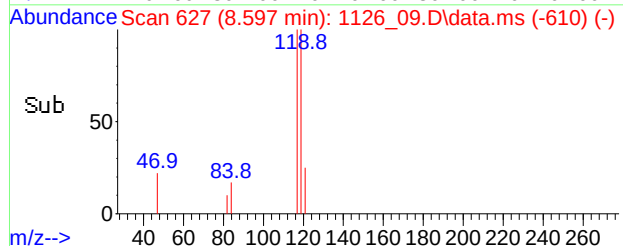
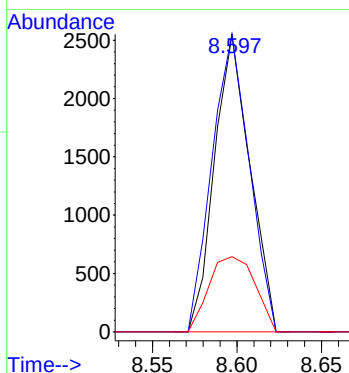
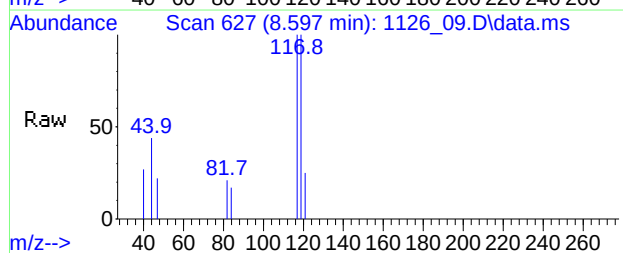
Tgt Ion: 78 Resp: 34196
Ion Ratio Lower Upper
78 100
77 23.8 18.8 28.2
51 28.4 18.1 27.1#





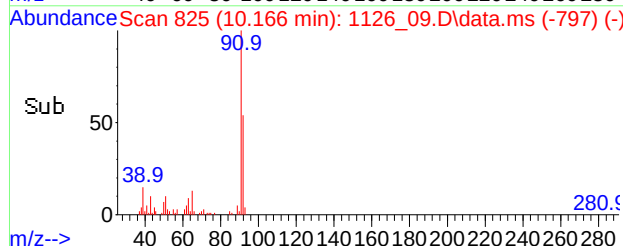
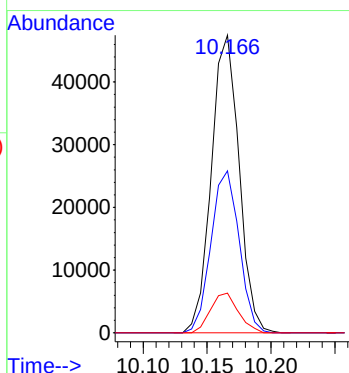
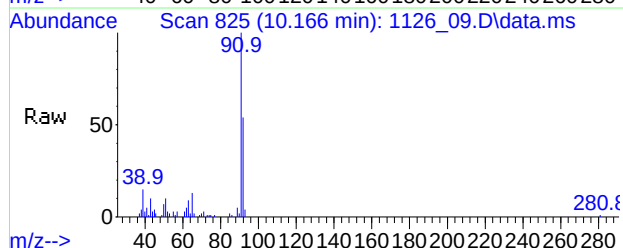
#35
Carbon Tetrachloride
Conc: 8\$ Below Cal
RT: 8.597 min Scan# 627
Delta R.T. 0.000 min
Lab File: 1126_09.D
Acq: 26 Nov 2024 8:00 pm

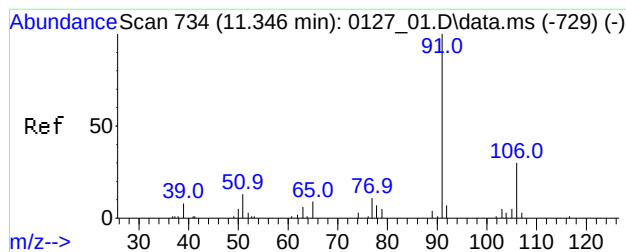
Tgt Ion: 117 Resp: 3721
Ion Ratio Lower Upper
117 100
119 105.2 76.5 116.5
121 32.9 11.2 51.2



#49
Toluene
Conc: 8\$ 1.039 ppbv
RT: 10.166 min Scan# 825
Delta R.T. 0.000 min
Lab File: 1126_09.D
Acq: 26 Nov 2024 8:00 pm

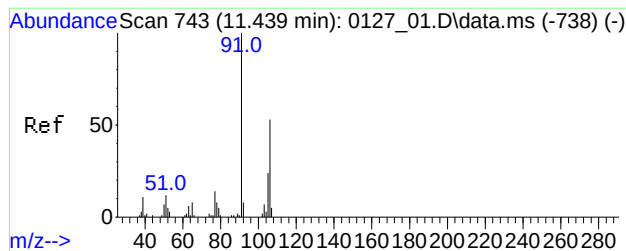
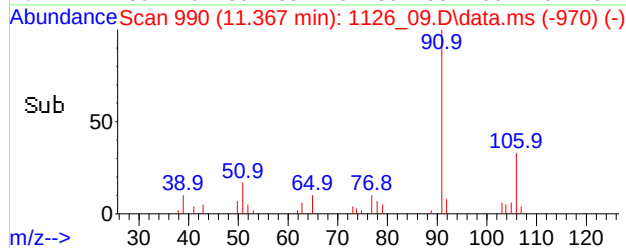
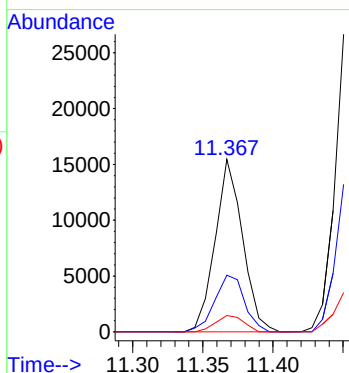
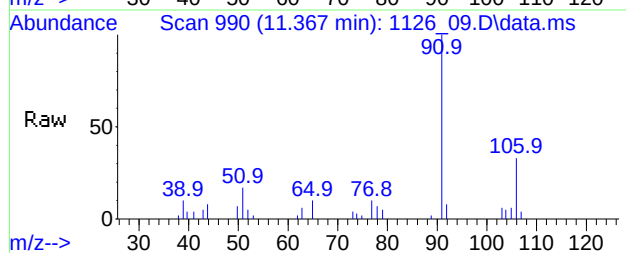
Tgt Ion: 91 Resp: 71334
Ion Ratio Lower Upper
91 100
92 55.2 45.0 67.4
65 13.4 9.4 14.2





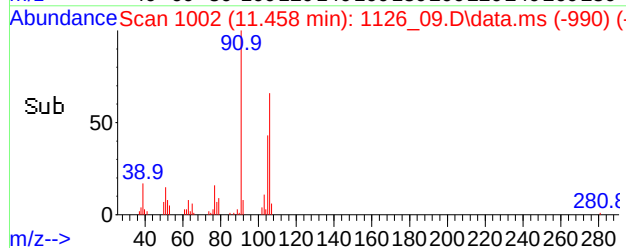
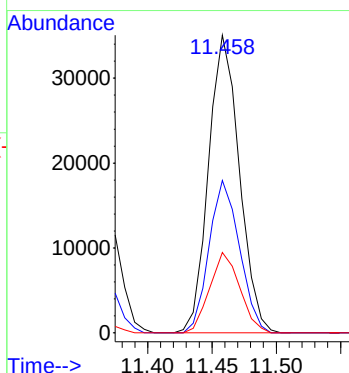
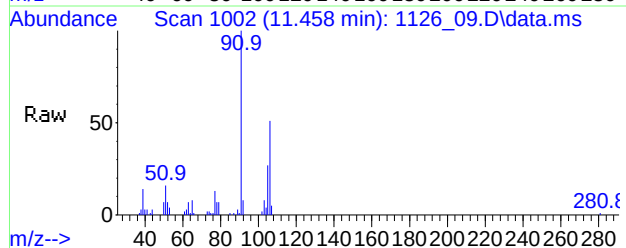
#57
Ethylbenzene
Conc: 8\$ 0.254 ppbv
RT: 11.367 min Scan# 990
Delta R.T. 0.000 min
Lab File: 1126_09.D
Acq: 26 Nov 2024 8:00 pm

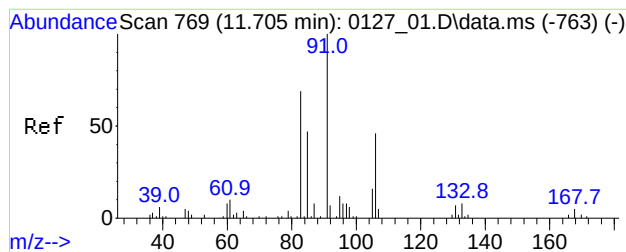
Tgt Ion: 91 Resp: 21058
Ion Ratio Lower Upper
91 100
106 35.7 13.5 53.5
77 9.7 0.0 28.3



#58
m,p-Xylene
Conc: 8\$ 0.941 ppbv
RT: 11.458 min Scan# 1002
Delta R.T. -0.007 min
Lab File: 1126_09.D
Acq: 26 Nov 2024 8:00 pm

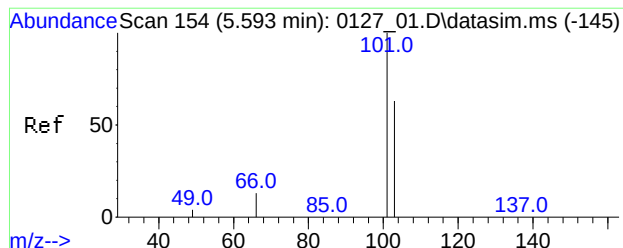
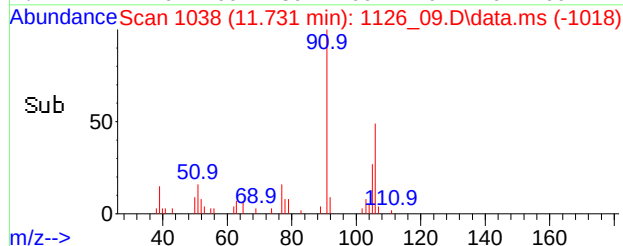
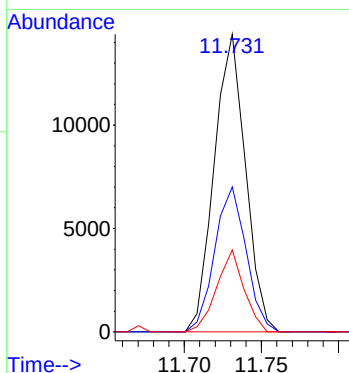
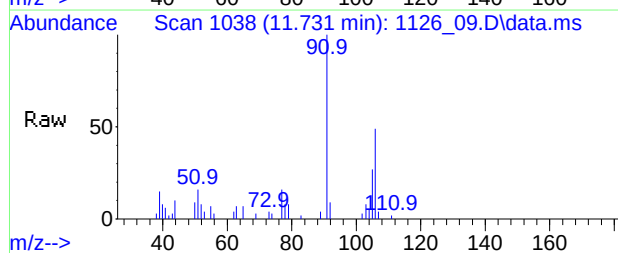
Tgt Ion: 91 Resp: 58538
Ion Ratio Lower Upper
91 100
106 50.5 41.1 61.7
105 26.5 19.5 29.3





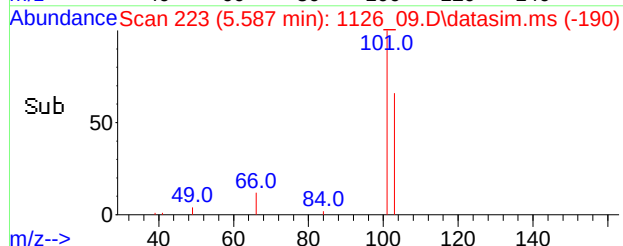
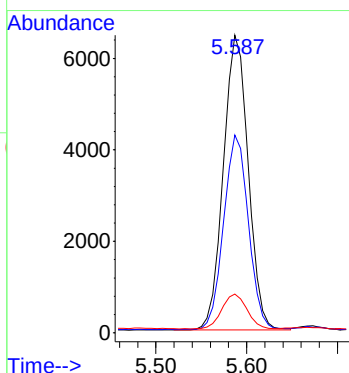
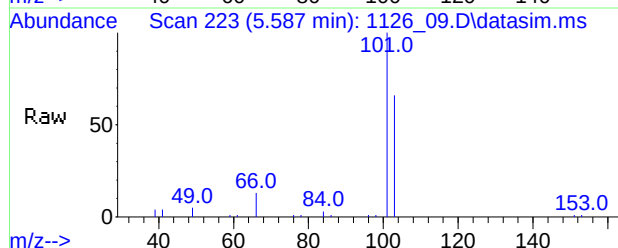
#62
o-Xylene
Conc: 8\$ 0.305 ppbv
RT: 11.731 min Scan# 1038
Delta R.T. 0.000 min
Lab File: 1126_09.D
Acq: 26 Nov 2024 8:00 pm

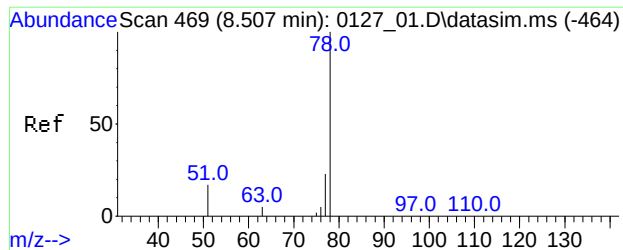
Tgt Ion: 91 Resp: 20232
Ion Ratio Lower Upper
91 100
106 49.0 39.6 59.4
105 24.2 16.7 25.1



#85
Trichlorofluoromethane(sim)
Conc: 8\$ 0.209 ppbv
RT: 5.587 min Scan# 223
Delta R.T. -0.000 min
Lab File: 1126_09.D
Acq: 26 Nov 2024 8:00 pm

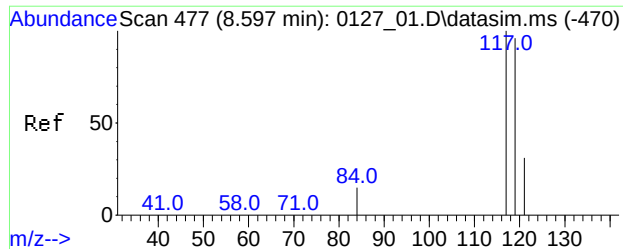
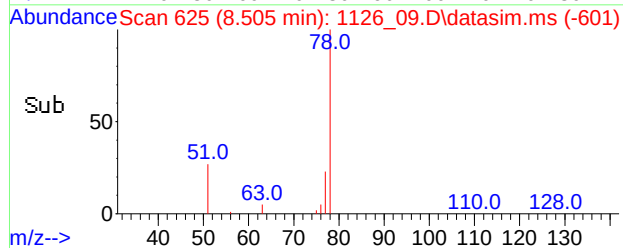
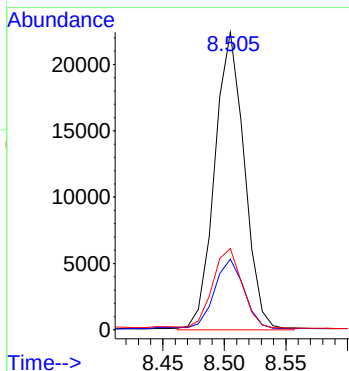
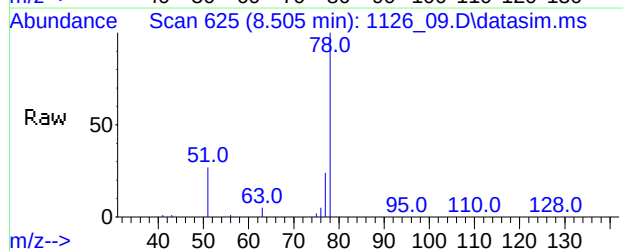
Tgt Ion: 101 Resp: 12282
Ion Ratio Lower Upper
101 100
103 65.7 52.4 78.6
66 11.7 11.4 11.4#





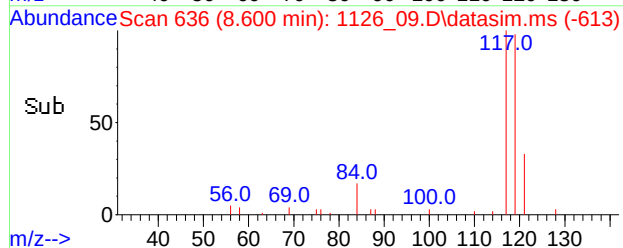
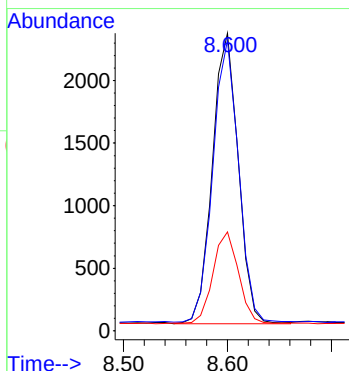
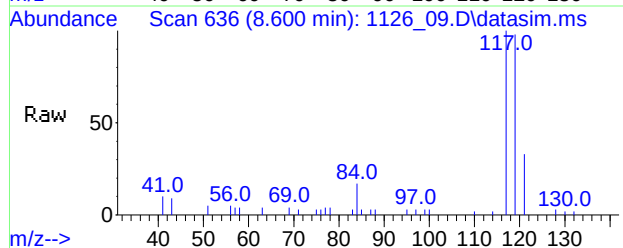
#88
Benzene(sim)
Conc: 8\$ 0.563 ppbv
RT: 8.502 min Scan# 625
Delta R.T. 0.000 min
Lab File: 1126_09.D
Acq: 26 Nov 2024 8:00 pm

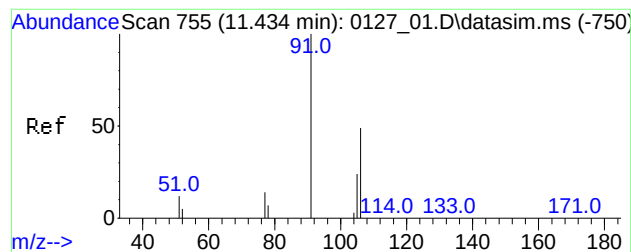
Tgt Ion: 78 Resp: 34196
Ion Ratio Lower Upper
78 100
77 23.8 18.8 28.2
51 28.4 18.1 27.1#



#89
Carbon Tetrachloride(sim)
Conc: 8\$ 0.077 ppbv
RT: 8.600 min Scan# 636
Delta R.T. 0.000 min
Lab File: 1126_09.D
Acq: 26 Nov 2024 8:00 pm

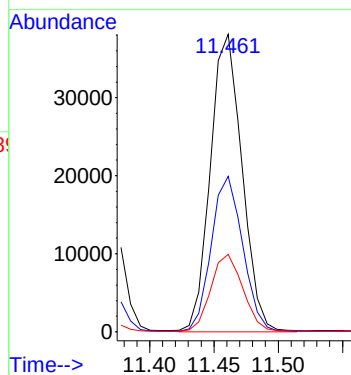
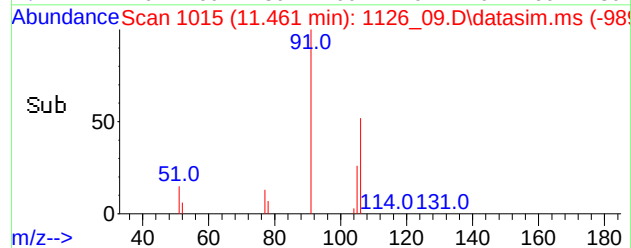
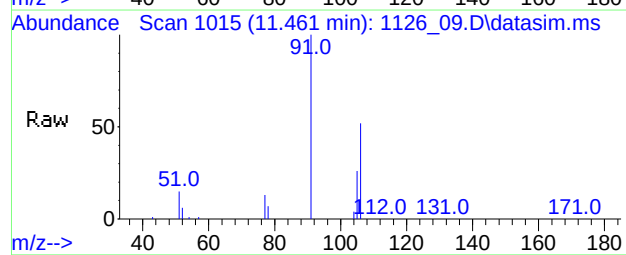
Tgt Ion: 117 Resp: 3996
Ion Ratio Lower Upper
117 100
119 97.1 77.4 116.2
121 31.2 24.9 37.3





#108
 m,p-Xylene(sim)
 Conc: 8\$ 0.773 ppbv
 RT: 11.458 min Scan# 1015
 Delta R.T. -0.008 min
 Lab File: 1126_09.D
 Acq: 26 Nov 2024 8:00 pm

Tgt Ion: 91 Resp: 58538
 Ion Ratio Lower Upper
 91 100
 106 50.5 46.3 56.5
 105 26.5 19.5 29.3



1
AIR ANALYSIS DATA SHEET

CLIENT ID

CANISTER BLK 3578

Client:	AMC-ENG	Lab:	Phoenix Env. Labs
SDG No.:	GCS16244	Lab Sample ID:	CANISTER BLK 3578
Canister:	CANBL	Lab File ID:	1022_13.D
Instrument:	CHEM20	Column:	
Purge Volume	200	(cc)	
Matrix:	AIR	Dilution Factor:	1
Date Received:			
Date Analyzed:	10/22/24		

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
115-07-1	Propylene	0.581	U	0.581	0.581	r
75-71-8	Dichlorodifluoromethane	0.202	U	0.202	0.202	r
74-87-3	Chloromethane	0.485	U	0.485	0.485	r
106-99-0	1,3-Butadiene	0.452	U	0.452	0.452	r
75-00-3	Chloroethane	0.379	U	0.379	0.379	r
64-17-5	Ethanol	0.531	U	0.531	0.531	r
67-64-1	Acetone	0.421	U	0.421	0.421	r
67-63-0	Isopropylalcohol	0.407	U	0.407	0.407	r
107-13-1	Acrylonitrile	0.461	U	0.461	0.461	r
75-09-2	Methylene Chloride	0.863	U	0.863	0.863	r
75-15-0	Carbon Disulfide	0.321	U	0.321	0.321	r
1634-04-4	Methyl tert-butyl ether(MTBE)	0.278	U	0.278	0.278	r
78-93-3	Methyl Ethyl Ketone	0.339	U	0.339	0.339	r
110-54-3	Hexane	0.284	U	0.284	0.284	r
141-78-6	Ethyl acetate	0.278	U	0.278	0.278	r
109-99-9	Tetrahydrofuran	0.339	U	0.339	0.339	r
110-82-7	Cyclohexane	0.291	U	0.291	0.291	r
540-84-1	2,2,4-trimethylpentane	0.215	U	0.215	0.215	r
142-82-5	Heptane	0.244	U	0.244	0.244	r
108-10-1	4-Methyl-2-pentanone(MIBK)	0.244	U	0.244	0.244	r
10061-02-6	trans-1,3-Dichloropropene	0.220	U	0.220	0.220	r
108-88-3	Toluene	0.266	U	0.266	0.266	r
591-78-6	2-Hexanone(MBK)	0.244	U	0.244	0.244	r
630-20-6	1,1,1,2-Tetrachloroethane	0.146	U	0.146	0.146	r
108-90-7	Chlorobenzene	0.217	U	0.217	0.217	r
100-41-4	Ethylbenzene	0.230	U	0.230	0.230	r
100-42-5	Styrene	0.235	U	0.235	0.235	r
95-47-6	o-Xylene	0.230	U	0.230	0.230	r
98-82-8	Isopropylbenzene	0.204	U	0.204	0.204	r
622-96-8	4-Ethyltoluene	0.204	U	0.204	0.204	r
108-67-8	1,3,5-Trimethylbenzene	0.204	U	0.204	0.204	r
95-63-6	1,2,4-Trimethylbenzene	0.204	U	0.204	0.204	r
91-20-3	Naphthalene	0.200	U	0.200	0.200	r
76-14-2	1,2-Dichlorotetrafluoroethane(sim)	0.143	U	0.143	0.143	r
75-01-4	Vinyl Chloride(sim)	0.078	U	0.078	0.078	r
74-83-9	Bromomethane(sim)	0.258	U	0.258	0.258	r

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

1
AIR ANALYSIS DATA SHEET

CLIENT ID

CANISTER BLK 3578

Client:	AMC-ENG	Lab:	Phoenix Env. Labs
SDG No.:	GCS16244	Lab Sample ID:	CANISTER BLK 3578
Canister:	CANBL	Lab File ID:	1022_13.D
Instrument:	CHEM20	Column:	
Purge Volume	200	(cc)	
Matrix:	AIR	Dilution Factor:	1
Date Received:			
Date Analyzed:	10/22/24		

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
75-69-4	Trichlorofluoromethane(sim)	0.178	U	0.178	0.178	r
107-06-2	1,2-Dichloroethane(sim)	0.247	U	0.247	0.247	r
71-55-6	1,1,1-Trichloroethane(sim)	0.183	U	0.183	0.183	r
71-43-2	Benzene(sim)	0.313	U	0.313	0.313	r
56-23-5	Carbon Tetrachloride(sim)	0.032	U	0.032	0.032	r
75-35-4	1,1-Dichloroethene(sim)	0.051	U	0.051	0.051	r
76-13-1	Trichlorotrifluoroethane(sim)	0.131	U	0.131	0.131	r
156-60-5	Trans-1,2-Dichloroethene(sim)	0.252	U	0.252	0.252	r
75-34-3	1,1-Dichloroethane(sim)	0.247	U	0.247	0.247	r
156-59-2	Cis-1,2-Dichloroethene(sim)	0.051	U	0.051	0.051	r
67-66-3	Chloroform(sim)	0.205	U	0.205	0.205	r
78-87-5	1,2-dichloropropane(sim)	0.217	U	0.217	0.217	r
75-27-4	Bromodichloromethane(sim)	0.149	U	0.149	0.149	r
79-01-6	Trichloroethene(sim)	0.037	U	0.037	0.037	r
123-91-1	1,4-Dioxane(sim)	0.278	U	0.278	0.278	r
10061-01-5	cis-1,3-Dichloropropene(sim)	0.220	U	0.220	0.220	r
79-00-5	1,1,2-Trichloroethane(sim)	0.183	U	0.183	0.183	r
124-48-1	Dibromochloromethane(sim)	0.117	U	0.117	0.117	r
106-93-4	1,2-Dibromoethane(EDB)(sim)	0.130	U	0.130	0.130	r
127-18-4	Tetrachloroethene(sim)	0.037	U	0.037	0.037	r
75-25-2	Bromoform(sim)	0.097	U	0.097	0.097	r
179601-23-1	m,p-Xylene(sim)	0.230	U	0.230	0.230	r
79-34-5	1,1,2,2-Tetrachloroethane(sim)	0.146	U	0.146	0.146	r
100-44-7	Benzyl chloride(sim)	0.193	U	0.193	0.193	r
541-73-1	1,3-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
106-46-7	1,4-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
135-98-8	sec-Butylbenzene(sim)	0.182	U	0.182	0.182	r
99-87-6	4-Isopropyltoluene(sim)	0.182	U	0.182	0.182	r
95-50-1	1,2-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
104-51-8	n-Butylbenzene(sim)	0.182	U	0.182	0.182	r
120-82-1	1,2,4-Trichlorobenzene(sim)	0.135	U	0.135	0.135	r
87-68-3	Hexachlorobutadiene(sim)	0.094	U	0.094	0.094	r

FORM I AIR
r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045

Batch Canister Certification

December 17, 2024

Batch Id: 3578

QC Canister Id: 782

SDG ID: GCS16244

Sample Canister Ids: 19806

Certification Date: 10/22/24 8:35 PM

Data File: H:\AIR2024\CHEM20\10OCT\22\1022_13.D\1022_13-20_AIR_1015.rr

Project ID: 218 FRONT STREET

Analyte	Result (ppbv)	Analyte	Result (ppbv)
1,1,1,2-Tetrachloroethane	<0.146	1,1,1-Trichloroethane	<0.183
1,1,2,2-Tetrachloroethane	<0.146	1,1,2-Trichloroethane	<0.183
1,1-Dichloroethane	<0.247	1,1-Dichloroethene	<0.051
1,2,4-Trichlorobenzene	<0.135	1,2,4-Trimethylbenzene	<0.204
1,2-Dibromoethane(EDB)	<0.130	1,2-Dichlorobenzene	<0.166
1,2-Dichloroethane	<0.247	1,2-dichloropropane	<0.217
1,2-Dichlorotetrafluoroethane	<0.143	1,3,5-Trimethylbenzene	<0.204
1,3-Butadiene	<0.452	1,3-Dichlorobenzene	<0.166
1,4-Dichlorobenzene	<0.166	1,4-Dioxane	<0.278
2-Hexanone(MBK)	<0.244	4-Ethyltoluene	<0.204
4-Isopropyltoluene	<0.182	4-Methyl-2-pentanone(MIBK)	<0.244
Acetone	<0.421	Acrylonitrile	<0.461
Benzene	<0.313	Benzyl chloride	<0.193
Bromodichloromethane	<0.149	Bromoform	<0.097
Bromomethane	<0.258	Carbon Disulfide	<0.321
Carbon Tetrachloride	<0.032	Chlorobenzene	<0.217
Chloroethane	<0.379	Chloroform	<0.205
Chloromethane	<0.485	Cis-1,2-Dichloroethene	<0.051
cis-1,3-Dichloropropene	<0.220	Cyclohexane	<0.291
Dibromochloromethane	<0.117	Dichlorodifluoromethane	<0.202
Ethanol	<0.531	Ethyl acetate	<0.278
Ethylbenzene	<0.230	Heptane	<0.244
Hexachlorobutadiene	<0.094	Hexane	<0.284
Isooctane	<0.215	Isopropylalcohol	<0.407
Isopropylbenzene	<0.204	m,p-Xylene	<0.230
Methyl Ethyl Ketone	<0.339	Methyl tert-butyl ether(MTBE)	<0.278
Methylene Chloride	<0.863	Naphthalene	<0.200
n-Butylbenzene	<0.182	o-Xylene	<0.230
Propylene	<0.581	sec-Butylbenzene	<0.182
Styrene	<0.235	Tetrachloroethene	<0.037
Tetrahydrofuran	<0.339	Toluene	<0.266
Trans-1,2-Dichloroethene	<0.252	trans-1,3-Dichloropropene	<0.220
Trichloroethene	<0.037	Trichlorofluoromethane	<0.178
Trichlorotrifluoroethane	<0.131	Vinyl Chloride	<0.078

Data Path : H:\AIR2024\CHEM20\10OCT\22\
 Data File : 1022_13.D
 Acq On : 22 Oct 2024 8:35 pm
 Operator :
 Client ID : CANISTER BLK 3578
 Lab ID : CANISTER BLK 3578
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 23 07:43:29 2024
 Quant Method : H:\AIR2024\CHEM20\Methods\20_AIR_1015.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Wed Oct 16 14:22:25 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	7.363	130	398592	10.000	ng	0.01
37) 1,4-Difluorobenzene	8.524	114	1361493	10.000	ng	0.01
54) Chlorobenzene-d5	10.986	82	719340	10.000	ng	# 0.00
81) Bromochloromethane(sim)	7.369	130	463956	10.000	ng	# 0.01
96) 1,4-Difluorobenzene(sim)	8.524	114	1361493	10.000	ng	0.01
106) Chlorobenzene-d5(sim)	10.986	82	719340	10.000	ng	# 0.00
System Monitoring Compounds						
63) % Bromofluorobenzene	11.817	95	951416	10.149	ppbv	0.00
Spiked Amount	10.000	Range 70 - 130	Recovery	=	101.50%	

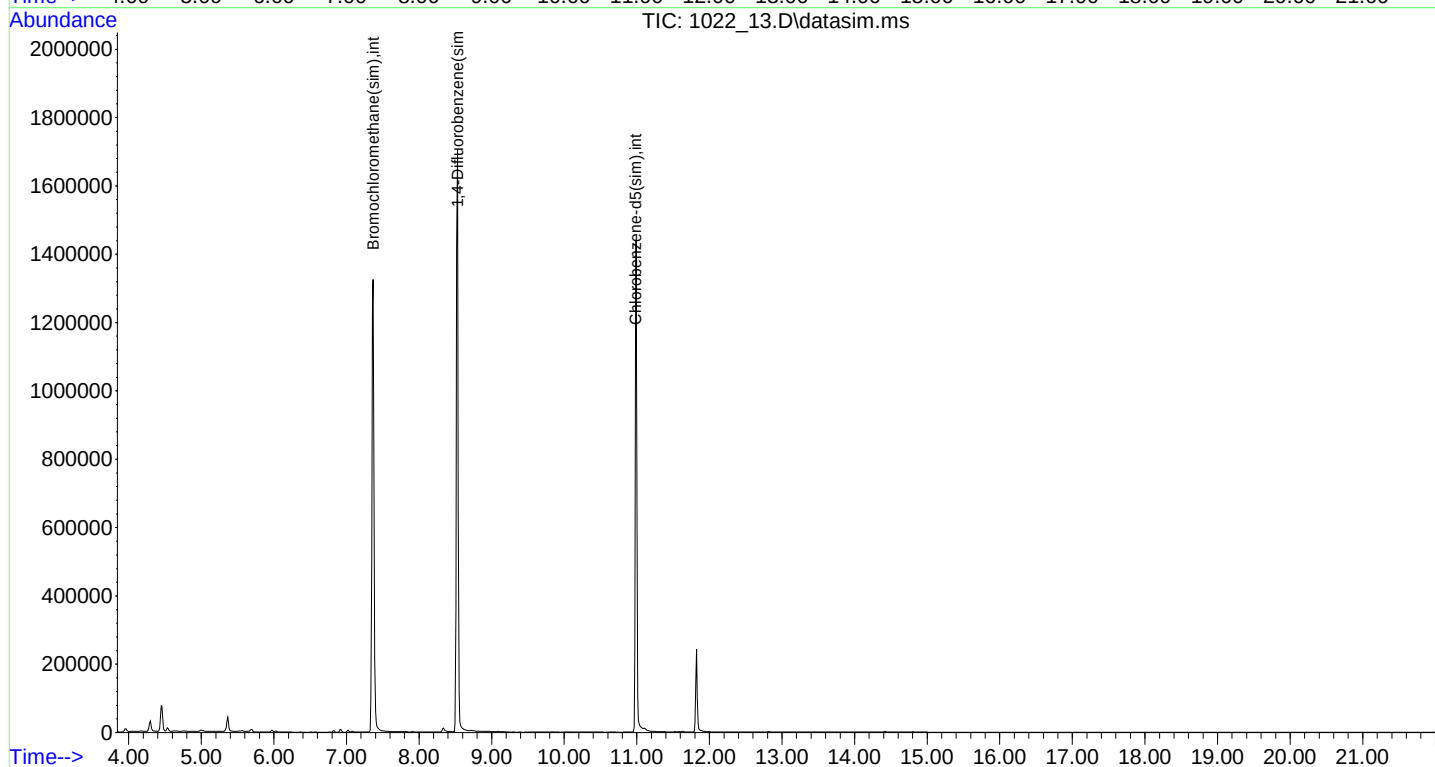
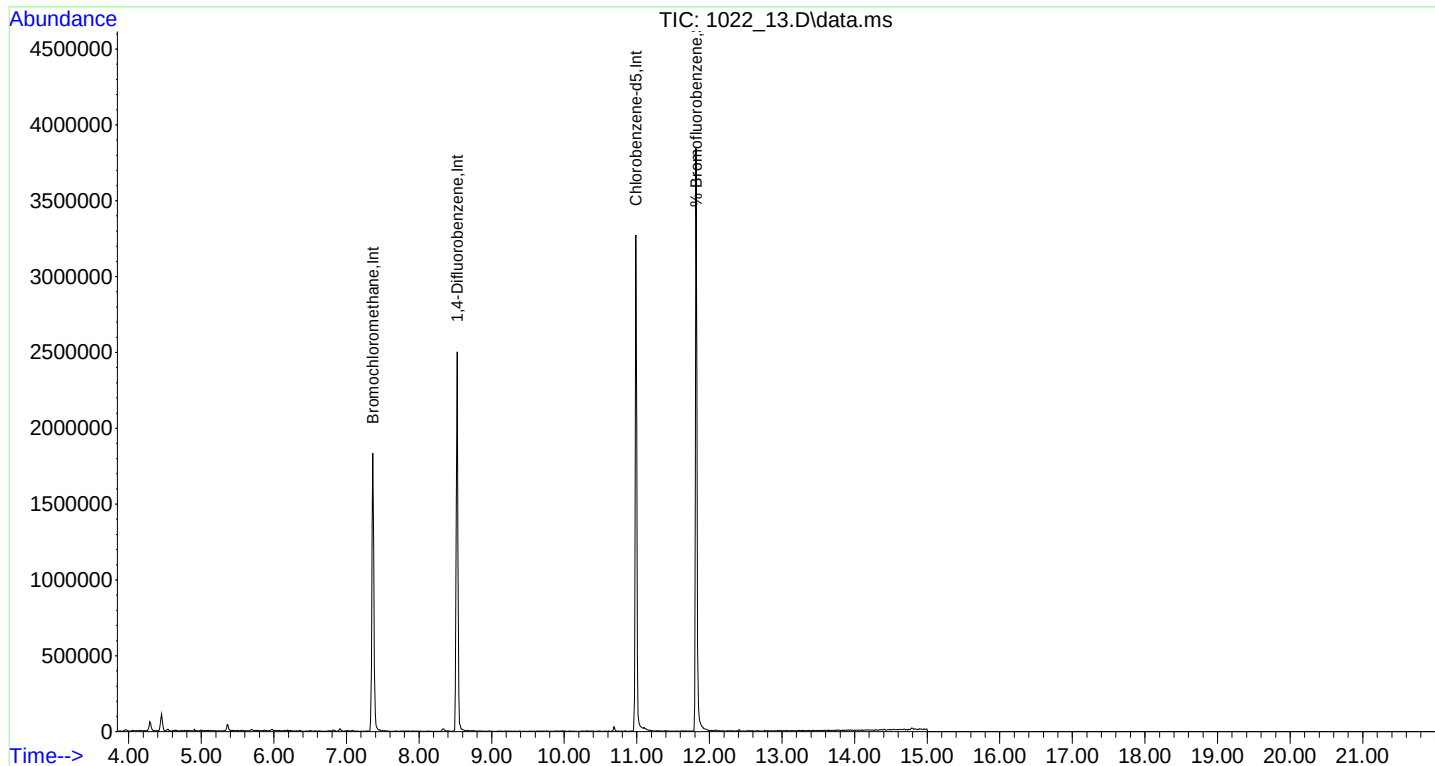
Target Compounds	Qvalue

(#)out of range (m)manual integration reviewed by analyst (+)signals summed

(QT Reviewed)

Data Path : H:\AIR2024\CHEM20\10OCT\22\
Data File : 1022_13.D
Acq On : 22 Oct 2024 8:35 pm
Operator :
Client ID : CANISTER BLK 3578
Lab ID : CANISTER BLK 3578
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 23 07:43:29 2024
Quant Method : H:\AIR2024\CHEM20\Methods\20_AIR_1015.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Wed Oct 16 14:22:25 2024
Response via : Initial Calibration



1
AIR ANALYSIS DATA SHEET

CLIENT ID

CANISTER BLK 3612

Client:	<u>AMC-ENG</u>	Lab:	<u>Phoenix Env. Labs</u>
SDG No.:	<u>GCS16244</u>	Lab Sample ID:	<u>CANISTER BLK 3612</u>
Canister:	<u>CANBL</u>	Lab File ID:	<u>1112_23.D</u>
Instrument:	<u>CHEM24</u>	Column:	<u> </u>
Purge Volume	<u>200</u> (cc)	Date Received:	<u> </u>
Matrix:	<u>AIR</u>	Date Analyzed:	<u>11/13/24</u>
		Dilution Factor:	<u>1</u>

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
115-07-1	Propylene	0.581	U	0.581	0.581	r
75-71-8	Dichlorodifluoromethane	0.202	U	0.202	0.202	r
74-87-3	Chloromethane	0.485	U	0.485	0.485	r
106-99-0	1,3-Butadiene	0.452	U	0.452	0.452	r
75-00-3	Chloroethane	0.379	U	0.379	0.379	r
64-17-5	Ethanol	0.531	U	0.531	0.531	r
67-64-1	Acetone	0.421	U	0.421	0.421	r
67-63-0	Isopropylalcohol	0.407	U	0.407	0.407	r
107-13-1	Acrylonitrile	0.461	U	0.461	0.461	r
75-09-2	Methylene Chloride	0.863	U	0.863	0.863	r
75-15-0	Carbon Disulfide	0.321	U	0.321	0.321	r
1634-04-4	Methyl tert-butyl ether(MTBE)	0.278	U	0.278	0.278	r
78-93-3	Methyl Ethyl Ketone	0.339	U	0.339	0.339	r
110-54-3	Hexane	0.284	U	0.284	0.284	r
141-78-6	Ethyl acetate	0.278	U	0.278	0.278	r
109-99-9	Tetrahydrofuran	0.339	U	0.339	0.339	r
110-82-7	Cyclohexane	0.291	U	0.291	0.291	r
540-84-1	2,2,4-trimethylpentane	0.215	U	0.215	0.215	r
142-82-5	Heptane	0.244	U	0.244	0.244	r
108-10-1	4-Methyl-2-pentanone(MIBK)	0.244	U	0.244	0.244	r
10061-02-6	trans-1,3-Dichloropropene	0.220	U	0.220	0.220	r
108-88-3	Toluene	0.266	U	0.266	0.266	r
591-78-6	2-Hexanone(MBK)	0.244	U	0.244	0.244	r
630-20-6	1,1,1,2-Tetrachloroethane	0.146	U	0.146	0.146	r
108-90-7	Chlorobenzene	0.217	U	0.217	0.217	r
100-41-4	Ethylbenzene	0.230	U	0.230	0.230	r
100-42-5	Styrene	0.235	U	0.235	0.235	r
95-47-6	o-Xylene	0.230	U	0.230	0.230	r
98-82-8	Isopropylbenzene	0.204	U	0.204	0.204	r
622-96-8	4-Ethyltoluene	0.204	U	0.204	0.204	r
108-67-8	1,3,5-Trimethylbenzene	0.204	U	0.204	0.204	r
95-63-6	1,2,4-Trimethylbenzene	0.204	U	0.204	0.204	r
91-20-3	Naphthalene	0.200	U	0.200	0.200	r
76-14-2	1,2-Dichlorotetrafluoroethane(sim)	0.143	U	0.143	0.143	r
75-01-4	Vinyl Chloride(sim)	0.078	U	0.078	0.078	r
74-83-9	Bromomethane(sim)	0.258	U	0.258	0.258	r

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

1
AIR ANALYSIS DATA SHEET

CLIENT ID

CANISTER BLK 3612

Client:	AMC-ENG	Lab:	Phoenix Env. Labs
SDG No.:	GCS16244	Lab Sample ID:	CANISTER BLK 3612
Canister:	CANBL	Lab File ID:	1112_23.D
Instrument:	CHEM24	Column:	
Purge Volume	200	(cc)	
Matrix:	AIR	Dilution Factor:	1
Date Received:			
Date Analyzed:	11/13/24		

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
75-69-4	Trichlorofluoromethane(sim)	0.178	U	0.178	0.178	r
107-06-2	1,2-Dichloroethane(sim)	0.247	U	0.247	0.247	r
71-55-6	1,1,1-Trichloroethane(sim)	0.183	U	0.183	0.183	r
71-43-2	Benzene(sim)	0.313	U	0.313	0.313	r
56-23-5	Carbon Tetrachloride(sim)	0.032	U	0.032	0.032	r
75-35-4	1,1-Dichloroethene(sim)	0.051	U	0.051	0.051	r
76-13-1	Trichlorotrifluoroethane(sim)	0.131	U	0.131	0.131	r
156-60-5	Trans-1,2-Dichloroethene(sim)	0.252	U	0.252	0.252	r
75-34-3	1,1-Dichloroethane(sim)	0.247	U	0.247	0.247	r
156-59-2	Cis-1,2-Dichloroethene(sim)	0.051	U	0.051	0.051	r
67-66-3	Chloroform(sim)	0.205	U	0.205	0.205	r
78-87-5	1,2-dichloropropane(sim)	0.217	U	0.217	0.217	r
75-27-4	Bromodichloromethane(sim)	0.149	U	0.149	0.149	r
79-01-6	Trichloroethene(sim)	0.037	U	0.037	0.037	r
123-91-1	1,4-Dioxane(sim)	0.278	U	0.278	0.278	r
10061-01-5	cis-1,3-Dichloropropene(sim)	0.220	U	0.220	0.220	r
79-00-5	1,1,2-Trichloroethane(sim)	0.183	U	0.183	0.183	r
124-48-1	Dibromochloromethane(sim)	0.117	U	0.117	0.117	r
106-93-4	1,2-Dibromoethane(EDB)(sim)	0.130	U	0.130	0.130	r
127-18-4	Tetrachloroethene(sim)	0.037	U	0.037	0.037	r
75-25-2	Bromoform(sim)	0.097	U	0.097	0.097	r
179601-23-1	m,p-Xylene(sim)	0.230	U	0.230	0.230	r
79-34-5	1,1,2,2-Tetrachloroethane(sim)	0.146	U	0.146	0.146	r
100-44-7	Benzyl chloride(sim)	0.193	U	0.193	0.193	r
541-73-1	1,3-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
106-46-7	1,4-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
135-98-8	sec-Butylbenzene(sim)	0.182	U	0.182	0.182	r
99-87-6	4-Isopropyltoluene(sim)	0.182	U	0.182	0.182	r
95-50-1	1,2-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
104-51-8	n-Butylbenzene(sim)	0.182	U	0.182	0.182	r
120-82-1	1,2,4-Trichlorobenzene(sim)	0.135	U	0.135	0.135	r
87-68-3	Hexachlorobutadiene(sim)	0.094	U	0.094	0.094	r

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045

Batch Canister Certification

December 17, 2024

Batch Id: 3612

QC Canister Id: 568

SDG ID: GCS16244

Sample Canister Ids: 12862, 16001, 21357, 23344, 455, 480, 49198

Certification Date: 11/13/24 4:51 AM

Data File: H:\AIR2024\CHEM24\11NOV\11\1112_23.D\1112_23-24_AIR_1018.rr

Project ID: 218 FRONT STREET

Analyte	Result (ppbv)	Analyte	Result (ppbv)
1,1,1,2-Tetrachloroethane	<0.146	1,1,1-Trichloroethane	<0.183
1,1,2,2-Tetrachloroethane	<0.146	1,1,2-Trichloroethane	<0.183
1,1-Dichloroethane	<0.247	1,1-Dichloroethene	<0.051
1,2,4-Trichlorobenzene	<0.135	1,2,4-Trimethylbenzene	<0.204
1,2-Dibromoethane(EDB)	<0.130	1,2-Dichlorobenzene	<0.166
1,2-Dichloroethane	<0.247	1,2-dichloropropane	<0.217
1,2-Dichlorotetrafluoroethane	<0.143	1,3,5-Trimethylbenzene	<0.204
1,3-Butadiene	<0.452	1,3-Dichlorobenzene	<0.166
1,4-Dichlorobenzene	<0.166	1,4-Dioxane	<0.278
2-Hexanone(MBK)	<0.244	4-Ethyltoluene	<0.204
4-Isopropyltoluene	<0.182	4-Methyl-2-pentanone(MIBK)	<0.244
Acetone	<0.421	Acrylonitrile	<0.461
Benzene	<0.313	Benzyl chloride	<0.193
Bromodichloromethane	<0.149	Bromoform	<0.097
Bromomethane	<0.258	Carbon Disulfide	<0.321
Carbon Tetrachloride	<0.032	Chlorobenzene	<0.217
Chloroethane	<0.379	Chloroform	<0.205
Chloromethane	<0.485	Cis-1,2-Dichloroethene	<0.051
cis-1,3-Dichloropropene	<0.220	Cyclohexane	<0.291
Dibromochloromethane	<0.117	Dichlorodifluoromethane	<0.202
Ethanol	<0.531	Ethyl acetate	<0.278
Ethylbenzene	<0.230	Heptane	<0.244
Hexachlorobutadiene	<0.094	Hexane	<0.284
Isooctane	<0.215	Isopropylalcohol	<0.407
Isopropylbenzene	<0.204	m,p-Xylene	<0.230
Methyl Ethyl Ketone	<0.339	Methyl tert-butyl ether(MTBE)	<0.278
Methylene Chloride	<0.863	Naphthalene	<0.200
n-Butylbenzene	<0.182	o-Xylene	<0.230
Propylene	<0.581	sec-Butylbenzene	<0.182
Styrene	<0.235	Tetrachloroethene	<0.037
Tetrahydrofuran	<0.339	Toluene	<0.266
Trans-1,2-Dichloroethene	<0.252	trans-1,3-Dichloropropene	<0.220
Trichloroethene	<0.037	Trichlorofluoromethane	<0.178
Trichlorotrifluoroethane	<0.131	Vinyl Chloride	<0.078

Data Path : H:\AIR2024\CHEM24\11NOV\11\
Data File : 1112_23.D
Acq On : 13 Nov 2024 4:51 am
Operator : Keith
Client ID : CANISTER BLK 3612
Lab ID : CANISTER BLK 3612
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Nov 13 06:39:24 2024
Quant Method : H:\AIR2024\CHEM24\Methods\24_AIR_1018.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Tue Nov 12 15:18:40 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

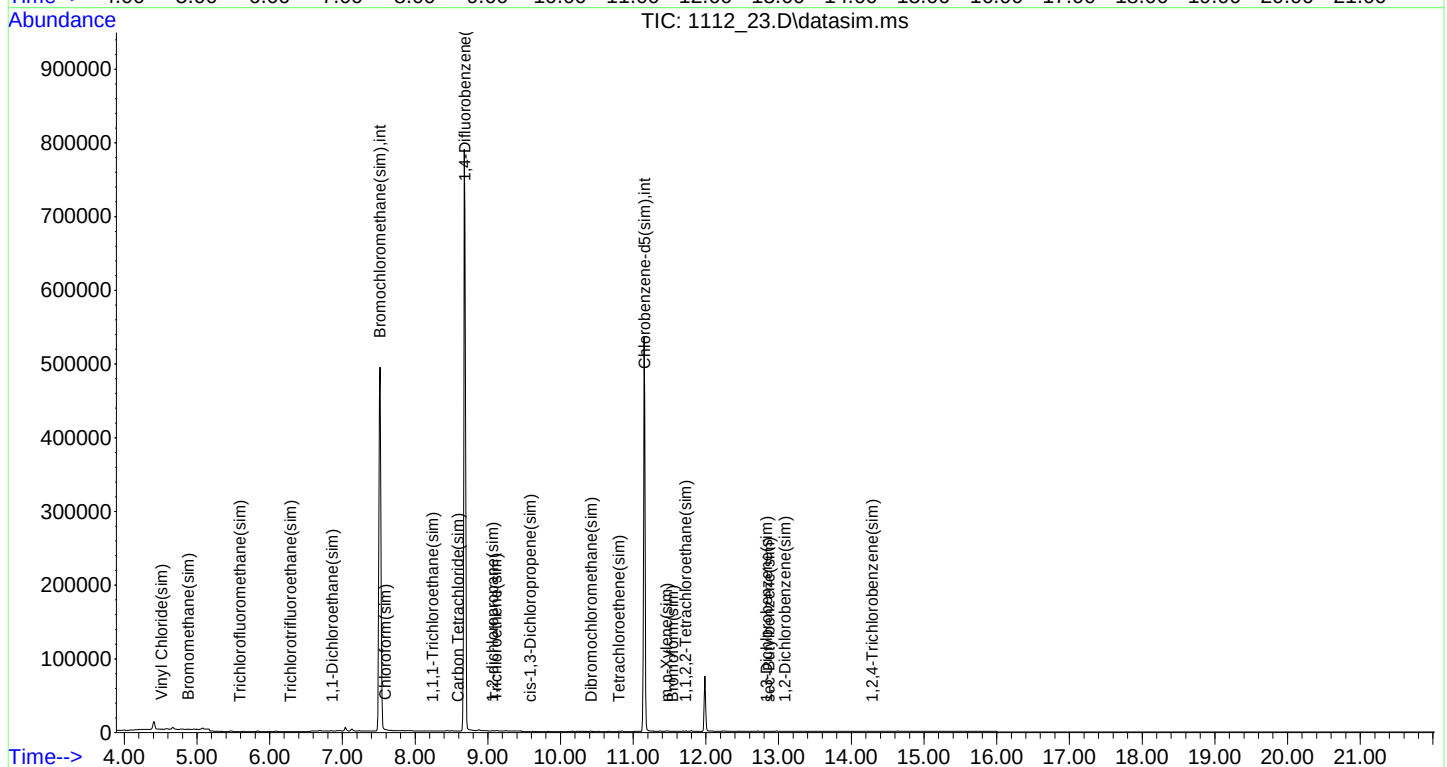
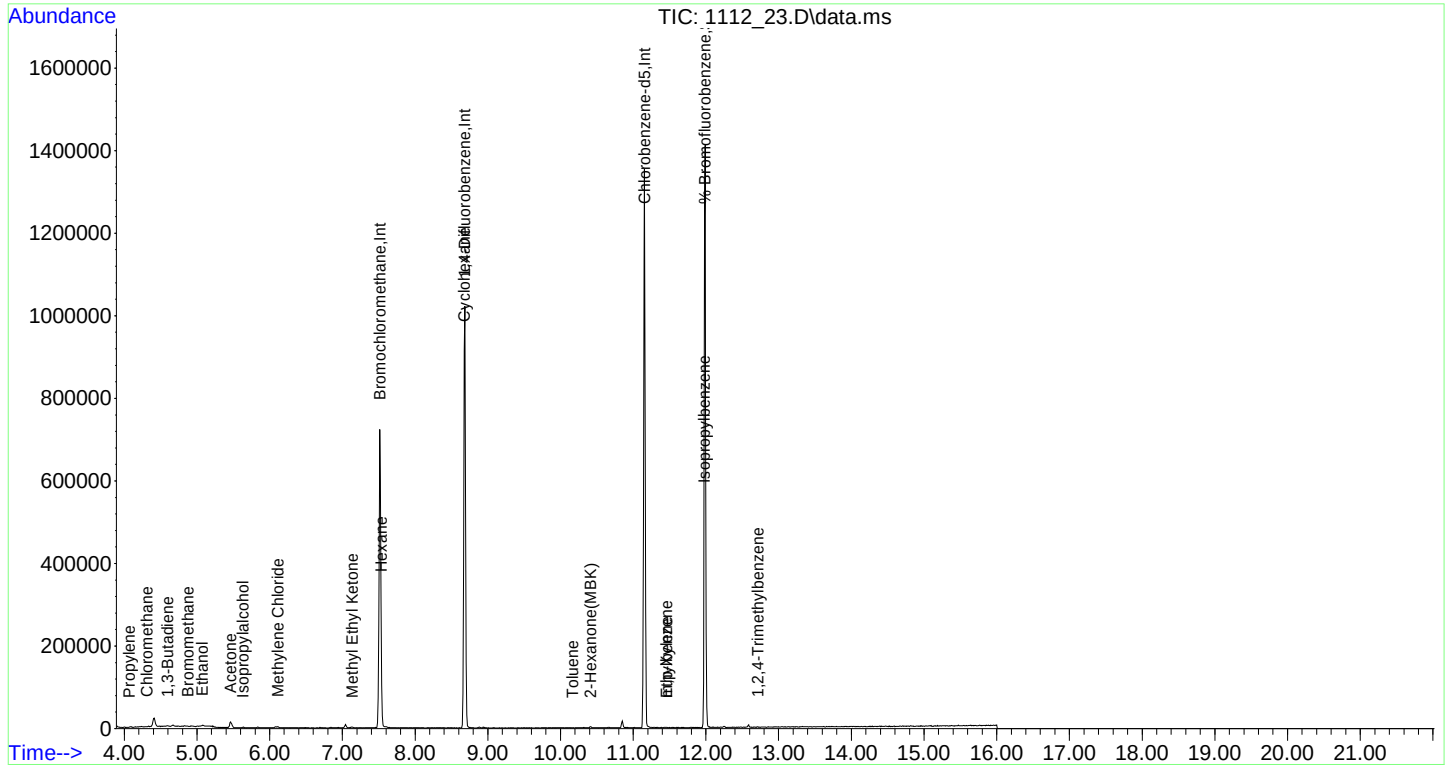
Internal Standards						
1) Bromochloromethane	7.515	130	214456	10.000	ng	0.00
37) 1,4-Difluorobenzene	8.684	114	701124	10.000	ng	0.00
54) Chlorobenzene-d5	11.155	82	309562	10.000	ng	0.00
81) Bromochloromethane(sim)	7.518	130	223852	10.000	ng	# 0.00
96) 1,4-Difluorobenzene(sim)	8.684	114	701124	10.000	ng	0.00
106) Chlorobenzene-d5(sim)	11.155	82	309562	10.000	ng	0.00
System Monitoring Compounds						
63) % Bromofluorobenzene	11.989	95	375555	9.375	ppbv	0.00
Spiked Amount	10.000	Range 70 - 130	Recovery	=	93.70%	

Target Compounds	Qvalue

(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Data Path : H:\AIR2024\CHEM24\11NOV\11\
Data File : 1112_23.D
Acq On : 13 Nov 2024 4:51 am
Operator : Keith
Client ID : CANISTER BLK 3612
Lab ID : CANISTER BLK 3612
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Nov 13 06:39:24 2024
Quant Method : H:\AIR2024\CHEM24\Methods\24_AIR_1018.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Tue Nov 12 15:18:40 2024
Response via : Initial Calibration



Injection Log

Data Directory: H:\AIR2024\CHEM20\10OCT\22\

Line	Vl	FileName	SampleName	MiscInfo	Injection Time
1)	1	1022_01.D	xxxxxxxxxx		10/22/24 13:32
2)	28	1022_02.D	xxxxxxxxxx		10/22/24 14:03
3)	28	1022_03.D	xxxxxxxxxx		10/22/24 14:35
4)	29	1022_04.D	xxxxxxxxxx		10/22/24 15:08
5)	1	1022_05.D	xxxxxxxxxx		10/22/24 15:38
6)	2	1022_06.D	xxxxxxxxxx		10/22/24 16:10
7)	3	1022_07.D	xxxxxxxxxx		10/22/24 16:43
8)	4	1022_08.D	xxxxxxxxxx		10/22/24 17:17
9)	5	1022_09.D	xxxxxxxxxx		10/22/24 17:51
10)	6	1022_10.D	xxxxxxxxxx		10/22/24 18:25
11)	7	1022_11.D	xxxxxxxxxx		10/22/24 19:00
12)	8	1022_12.D	xxxxxxxxxx		10/22/24 19:34
13)	9	1022_13.D	CANISTER BLK 3578	CANISTER BLK 3578	10/22/24 20:35
14)	10	1022_14.D	xxxxxxxxxx		10/23/24 8:55
15)	11	1022_15.D	xxxxxxxxxx		10/23/24 9:26
16)	12	1022_16.D	xxxxxxxxxx		10/23/24 9:58

Injection Log

Data Directory: H:\AIR2024\CHEM24\10OCT\18A\

Line	VL	FileName	SampleName	MiscInfo	Injection Time
1)	10	1018_01.D	BFB TUNE	0/0 ; ITSD Air36	10/18/24 14:33
2)	3	1018_02.D	ICAL 0.01	0.01 (40cc -1); T015	10/18/24 15:10
3)	4	1018_03.D	ICAL 0.02	0.02 (80cc -1) ; T01	10/18/24 15:45
4)	5	1018_04.D	ICAL 0.035	0.035 (140cc -1) ; T	10/18/24 16:24
5)	6	1018_05.D	ICAL 0.05	0.05 ppb ; T01511	10/18/24 17:01
6)	7	1018_06.D	ICAL 0.1	0.10 ppb ; T01511	10/18/24 17:37
7)	8	1018_07.D	ICAL 0.2	0.20 ppb ; T01511	10/18/24 18:11
8)	9	1018_08.D	ICAL 0.5	0.50 ppb ; T01511	10/18/24 18:48
9)	10	1018_09.D	ICAL 2.5	2.5 ppb ; T01511	10/18/24 19:28
10)	11	1018_10.D	ICAL 5	5.0 ppb ; T01511	10/18/24 20:01
11)	12	1018_11.D	ICAL 25	25 ppb ; T01511	10/18/24 20:39
12)	13	1018_12.D	ICAL 40	40 ppb ; T01511	10/18/24 21:20
13)	16	1018_13.D	ICAL 1	1ppb ; T01509 ; AIR3	10/18/24 21:58
14)	16	1018_14.D	ICAL 10	10ppb ; T01509 ; AIR	10/18/24 22:33
15)	17	1018_15.D	ICV_CHEM24_1018	10ppb lcs ; T01511	10/18/24 23:10
16)	18	1018_16.D	xxxxxxxxxxx		10/19/24 1:28
17)	19	1018_17.D	xxxxxxxxxxx		10/19/24 2:03

Injection Log

Data Directory: H:\AIR2024\CHEM24\11NOV\11\

Line	VI	FileName	SampleName	MiscInfo	Injection Time
1)	1	1111_01.D	xxxxxxxxxx		11/11/24 13:40
2)	2	1111_02.D	xxxxxxxxxx		11/11/24 14:16
3)	3	1111_03.D	xxxxxxxxxx		11/11/24 14:55
4)	4	1111_04.D	xxxxxxxxxx		11/11/24 15:34
5)	6	1111_05.D	xxxxxxxxxx		11/11/24 16:09
6)	7	1111_06.D	xxxxxxxxxx		11/11/24 16:45
7)	8	1111_07.D	xxxxxxxxxx		11/11/24 17:26
8)	9	1111_08.D	xxxxxxxxxx		11/11/24 18:08
9)	10	1111_09.D	xxxxxxxxxx		11/11/24 18:47
10)	11	1111_10.D	xxxxxxxxxx		11/11/24 19:26
11)	12	1111_11.D	xxxxxxxxxx		11/11/24 20:06
12)	13	1111_12.D	xxxxxxxxxx		11/11/24 20:46
13)	14	1111_13.D	xxxxxxxxxx		11/11/24 21:27
14)	15	1111_14.D	xxxxxxxxxx		11/11/24 22:03
15)	16	1111_15.D	xxxxxxxxxx		11/11/24 22:38
16)	17	1111_16.D	xxxxxxxxxx		11/11/24 23:14
17)	18	1111_17.D	xxxxxxxxxx		11/11/24 23:47
18)	19	1111_18.D	xxxxxxxxxx		11/12/24 9:14
19)	20	1111_19.D	xxxxxxxxxx		11/12/24 9:52
20)	21	1111_20.D	xxxxxxxxxx		11/12/24 10:28
21)	22	1111_21.D	xxxxxxxxxx		11/12/24 11:05
22)	23	1111_22.D	xxxxxxxxxx		11/12/24 11:47
23)	24	1111_23.D	xxxxxxxxxx		11/12/24 12:22
24)	1	1112_01.D	xxxxxxxxxx		11/12/24 12:58
25)	1	1112_02.D	xxxxxxxxxx		11/12/24 13:37
26)	2	1112_03.D	xxxxxxxxxx		11/12/24 14:19
27)	3	1112_04.D	xxxxxxxxxx		11/12/24 14:59
28)	4	1112_05.D	xxxxxxxxxx		11/12/24 15:58
29)	5	1112_06.D	xxxxxxxxxx		11/12/24 16:42
30)	6	1112_07.D	xxxxxxxxxx		11/12/24 17:36
31)	7	1112_08.D	xxxxxxxxxx		11/12/24 18:19
32)	8	1112_09.D	xxxxxxxxxx		11/12/24 19:06
33)	9	1112_10.D	xxxxxxxxxx		11/12/24 19:53
34)	10	1112_11.D	xxxxxxxxxx		11/12/24 20:37
35)	11	1112_12.D	xxxxxxxxxx		11/12/24 21:20
36)	12	1112_13.D	xxxxxxxxxx		11/12/24 22:03
37)	13	1112_14.D	xxxxxxxxxx		11/12/24 22:46
38)	14	1112_15.D	xxxxxxxxxx		11/12/24 23:29
39)	15	1112_16.D	xxxxxxxxxx		11/13/24 0:16
40)	16	1112_17.D	xxxxxxxxxx		11/13/24 1:02
41)	17	1112_18.D	xxxxxxxxxx		11/13/24 1:50
42)	18	1112_19.D	xxxxxxxxxx		11/13/24 2:30
43)	19	1112_20.D	xxxxxxxxxx		11/13/24 3:06
44)	20	1112_21.D	xxxxxxxxxx		11/13/24 3:40
45)	21	1112_22.D	xxxxxxxxxx		11/13/24 4:14
46)	22	1112_23.D	CANISTER BLK 3612	CANISTER BLK 3612	11/13/24 4:51
47)	23	1112_24.D	xxxxxxxxxx		11/13/24 5:28
48)	24	1112_25.D	xxxxxxxxxx		11/13/24 7:42
49)	25	1112_26.D	xxxxxxxxxx		11/13/24 8:39
50)	26	1112_27.D	xxxxxxxxxx		11/13/24 9:15
51)	27	1112_28.D	xxxxxxxxxx		11/13/24 9:53
52)	28	1112_29.D	xxxxxxxxxx		11/13/24 10:28
53)	29	1112_30.D	xxxxxxxxxx		11/13/24 11:02

Injection Log

Data Directory: H:\AIR2024\CHEM24\11NOV\26\

Line	VL	FileName	SampleName	MiscInfo	Injection Time
1)	1	1126_01.D	xxxxxxxxxx		11/26/24 13:17
2)	2	1126_02.D	BFB TUNE - CCAL 1	1ppb ccal; T01511 -	11/26/24 13:54
3)	3	1126_03.D	xxxxxxxxxx		11/26/24 14:30
4)	4	1126_04.D	CS16244 LCS	CS16244 LCS	11/26/24 15:07
5)	6	1126_05.D	CS16244 BLANK	CS16244 BLANK	11/26/24 15:41
6)	7	1126_06.D	xxxxxxxxxx		11/26/24 16:16
7)	8	1126_07.D	xxxxxxxxxx		11/26/24 16:54
8)	9	1126_08.D	IA-2	CS16244	11/26/24 19:22
9)	10	1126_09.D	IA-2 DUP	CS16244 DUP	11/26/24 20:00
10)	11	1126_10.D	IA-1	CS16245	11/26/24 20:37
11)	12	1126_11.D	IA-4	CS16248	11/26/24 21:14
12)	13	1126_12.D	DUPLICATE	CS16249	11/26/24 21:52
13)	14	1126_13.D	IA-3	CS16250	11/26/24 22:29
14)	15	1126_14.D	OA-1	CS16251	11/26/24 23:07
15)	16	1126_15.D	xxxxxxxxxx		11/26/24 23:48
16)	16	1126_16.D	SS-2 5X	CS16246 5X	11/27/24 0:22
17)	17	1126_17.D	SS-1 5X	CS16247 5X	11/27/24 0:59
18)	18	1126_18.D	xxxxxxxxxx		11/27/24 1:33
19)	19	1126_19.D	xxxxxxxxxx		11/27/24 3:19
20)	20	1126_20.D	xxxxxxxxxx		11/27/24 8:47
21)	21	1126_21.D	CCAL 1	1ppb ccal; T01511	11/27/24 9:45
22)	22	1126_22.D	xxxxxxxxxx		11/27/24 10:20



Appendix C: Data Usability Summary **Report**



Geology

Hydrology

Remediation

Water Supply

January 9, 2025

Ms. Aaliyah Kaushal
Environmental Engineer
AMC Engineering, PLLC
18-36 42nd Street
Astoria, New York 11105

Re: Data Validation Services
218 Front Street
November 2024 Soil Vapor/Air Sampling Event

Dear Ms. Kaushal:

The data usability summary report (DUSR) and data validation review are attached to this letter for the 218 Front Street November 2024 air sampling event. The data were acceptable for Phoenix Environmental Laboratories, Inc, SDG number GCS16244 with some minor issues that are identified and discussed in the validation summaries. There were no data qualified as either rejected or estimated in data pack.

A list of common data validation acronyms is attached to this letter to assist you interpreting the validation summaries. If you have any questions concerning the work to be performed, please contact me at (518) 348-6995. Thank you for the opportunity to assist AMC Engineering, PLLC.

Sincerely,
Alpha Geoscience

Donald Anné
Senior Chemist

DCA/bms
Via email

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Alpha Geoscience: Acronyms and Definitions

Data Validation Acronyms

AA	Atomic absorption, flame technique
BHC	Hexachlorocyclohexane
BFB	Bromofluorobenzene
CCB	Continuing calibration blank
CCC	Calibration check compound
CCV	Continuing calibration verification
CN	Cyanide
CRDL	Contract required detection limit
CRQL	Contract required quantitation limit
CVAA	Atomic adsorption, cold vapor technique
DCAA	2,4-Dichlorophenylacetic acid
DCB	Decachlorobiphenyl
DFTPP	Decafluorotriphenyl phosphine
ECD	Electron capture detector
FAA	Atomic absorption, furnace technique
FID	Flame ionization detector
FNP	1-Fluoronaphthalene
GC	Gas chromatography
GC/MS	Gas chromatography/mass spectrometry
GPC	Gel permeation chromatography
ICB	Initial calibration blank
ICP	Inductively coupled plasma-atomic emission spectrometer
ICV	Initial calibration verification
IDL	Instrument detection limit
IS	Internal standard
LCS	Laboratory control sample
LCS/LCSD	Laboratory control sample/laboratory control sample duplicate
MSA	Method of standard additions
MS/MSD	Matrix spike/matrix spike duplicate
PID	Photo ionization detector
PCB	Polychlorinated biphenyl
PCDD	Polychlorinated dibenzodioxins
PCDF	Polychlorinated dibenzofurans
QA	Quality assurance
QC	Quality control
RF	Response factor
RPD	Relative percent difference
RRF	Relative response factor
RRF(number)	Relative response factor at concentration of the number following
RT	Retention time
RRT	Relative retention time
SDG	Sample delivery group
SPCC	System performance check compound
TCX	Tetrachloro-m-xylene
%D	Percent difference
%R	Percent recovery
%RSD	Percent relative standard deviation

Data Validation Qualifiers Used in the QA/QC Reviews for USEPA Region II

U	=	Not detected. The associated number indicates the approximate sample concentration necessary to be detected significantly greater than the level of the highest associated blank.
R	=	Unreliable result; data is rejected or unusable. Analyte may or may not be present in the sample. Supporting data or information is necessary to confirm the result.
N	=	Tentative identification. Analyte is considered present. Special methods may be needed to confirm its presence or absence during future sampling efforts.
J	=	Analyte is present. Reported value may be associated with a higher level of uncertainty than is normally expected with the analytical method.
J-	=	Analyte is present. Reported value may be biased low and associated with a higher level of uncertainty than is normally expected with the analytical method.
J+	=	Analyte is present. Reported value may be biased high and associated with a higher level of uncertainty than is normally expected with the analytical method.
UJ	=	Not detected, quantitation limit may be inaccurate or imprecise.

Note: These qualifiers are used for data validation purposes. The data validation qualifiers may differ from the qualifiers that the laboratory assigns to the data. Refer to the laboratory analytical report for the definitions of the laboratory qualifiers.



**Data Usability Summary Report for
Phoenix Environmental Laboratories, Inc.
SDG: GCS16244**

**7 Soil Vapor/Air Samples and 1 Field Duplicate
Collected November 25, 2024**

Prepared by: Donald Anné
January 9, 2025

Geology

Hydrology

Remediation

Water Supply

The data packages contain the documentation required by NYSDEC ASP. The proper chain of custody procedures were followed by the samplers. All information appeared legible and complete. The data pack contained the results for 7 soil vapor/air samples and 1 field duplicate analyzed for TO15 volatiles.

The overall performances of the analysis is acceptable. Phoenix Environmental Laboratories, Inc. did fulfill the requirements of the analytical method.

The data are acceptable with some minor issues that are identified in the accompanying data validation reviews. There were no data that were qualified as either estimated or rejected; therefore, all data are considered usable. Detailed information on data quality is included in the data validation review.

Qualified Data Section

(No Data Qualified)



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102



Analysis Report

December 20, 2024

FOR: Attn: Ariel Czemerinski
AMC Engineering PLLC
18-36 42nd Street
Astoria, NY 11105

Sample Information

Matrix: AIR
Location Code: AMC-ENG
Rush Request: Standard
P.O.#:
Canister Id: 19806

Custody Information

Collected by: AE
Received by: CP
Analyzed by: see "By" below

Date Time
11/25/24 17:18
11/26/24 17:46

Laboratory Data

SDG ID: GCS16244
Phoenix ID: CS16244

Project ID: 218 FRONT STREET
Client ID: IA-2

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution
Volatiles (TO15)									
1,1,1,2-Tetrachloroethane	ND	0.146	0.146	ND	1.00	1.00	11/26/24	AW	1
1,1,1-Trichloroethane	ND	0.183	0.183	ND	1.00	1.00	11/26/24	AW	1
1,1,2,2-Tetrachloroethane	ND	0.146	0.146	ND	1.00	1.00	11/26/24	AW	1
1,1,2-Trichloroethane	ND	0.183	0.183	ND	1.00	1.00	11/26/24	AW	1
1,1-Dichloroethane	ND	0.247	0.247	ND	1.00	1.00	11/26/24	AW	1
1,1-Dichloroethene	ND	0.051	0.051	ND	0.20	0.20	11/26/24	AW	1
1,2,4-Trichlorobenzene	ND	0.135	0.135	ND	1.00	1.00	11/26/24	AW	1
1,2,4-Trimethylbenzene	ND	0.204	0.204	ND	1.00	1.00	11/26/24	AW	1
1,2-Dibromoethane(EDB)	ND	0.130	0.130	ND	1.00	1.00	11/26/24	AW	1
1,2-Dichlorobenzene	ND	0.166	0.166	ND	1.00	1.00	11/26/24	AW	1
1,2-Dichloroethane	ND	0.247	0.247	ND	1.00	1.00	11/26/24	AW	1
1,2-dichloropropane	ND	0.217	0.217	ND	1.00	1.00	11/26/24	AW	1
1,2-Dichlorotetrafluoroethane	ND	0.143	0.143	ND	1.00	1.00	11/26/24	AW	1
1,3,5-Trimethylbenzene	ND	0.204	0.204	ND	1.00	1.00	11/26/24	AW	1
1,3-Butadiene	ND	0.452	0.452	ND	1.00	1.00	11/26/24	AW	1
1,3-Dichlorobenzene	ND	0.166	0.166	ND	1.00	1.00	11/26/24	AW	1
1,4-Dichlorobenzene	ND	0.166	0.166	ND	1.00	1.00	11/26/24	AW	1
1,4-Dioxane	ND	0.278	0.278	ND	1.00	1.00	11/26/24	AW	1
2-Hexanone(MBK)	ND	0.244	0.244	ND	1.00	1.00	11/26/24	AW	1
4-Ethyltoluene	ND	0.204	0.204	ND	1.00	1.00	11/26/24	AW	1
4-Isopropyltoluene	ND	0.182	0.182	ND	1.00	1.00	11/26/24	AW	1
4-Methyl-2-pentanone(MIBK)	ND	0.244	0.244	ND	1.00	1.00	11/26/24	AW	1
Acetone	12.7	0.421	0.421	30.1	1.00	1.00	11/26/24	AW	1
Acrylonitrile	ND	0.461	0.461	ND	1.00	1.00	11/26/24	AW	1
Benzene	0.617	0.313	0.313	1.97	1.00	1.00	11/26/24	AW	1
Benzyl chloride	ND	0.193	0.193	ND	1.00	1.00	11/26/24	AW	1

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution
Bromodichloromethane	ND	0.149	0.149	ND	1.00	1.00	11/26/24	AW	1
Bromoform	ND	0.097	0.097	ND	1.00	1.00	11/26/24	AW	1
Bromomethane	ND	0.258	0.258	ND	1.00	1.00	11/26/24	AW	1
Carbon Disulfide	ND	0.321	0.321	ND	1.00	1.00	11/26/24	AW	1
Carbon Tetrachloride	0.075	0.032	0.032	0.47	0.20	0.20	11/26/24	AW	1
Chlorobenzene	ND	0.217	0.217	ND	1.00	1.00	11/26/24	AW	1
Chloroethane	ND	0.379	0.379	ND	1.00	1.00	11/26/24	AW	1
Chloroform	ND	0.205	0.205	ND	1.00	1.00	11/26/24	AW	1
Chloromethane	0.626	0.485	0.485	1.29	1.00	1.00	11/26/24	AW	1
Cis-1,2-Dichloroethene	ND	0.051	0.051	ND	0.20	0.20	11/26/24	AW	1
cis-1,3-Dichloropropene	ND	0.221	0.221	ND	1.00	1.00	11/26/24	AW	1
Cyclohexane	ND	0.291	0.291	ND	1.00	1.00	11/26/24	AW	1
Dibromochloromethane	ND	0.118	0.118	ND	1.00	1.00	11/26/24	AW	1
Dichlorodifluoromethane	0.449	0.202	0.202	2.22	1.00	1.00	11/26/24	AW	1
Ethanol	17.1	0.531	0.531	32.2	1.00	1.00	11/26/24	AW	1
Ethyl acetate	ND	0.278	0.278	ND	1.00	1.00	11/26/24	AW	1
Ethylbenzene	0.259	0.230	0.230	1.12	1.00	1.00	11/26/24	AW	1
Heptane	ND	0.244	0.244	ND	1.00	1.00	11/26/24	AW	1
Hexachlorobutadiene	ND	0.094	0.094	ND	1.00	1.00	11/26/24	AW	1
Hexane	0.413	0.284	0.284	1.45	1.00	1.00	11/26/24	AW	1
Isooctane	0.339	0.215	0.215	1.58	1.00	1.00	11/26/24	AW	1
Isopropylalcohol	0.777	0.407	0.407	1.91	1.00	1.00	11/26/24	AW	1
Isopropylbenzene	ND	0.204	0.204	ND	1.00	1.00	11/26/24	AW	1
m,p-Xylene	0.942	0.230	0.230	4.09	1.00	1.00	11/26/24	AW	1
Methyl Ethyl Ketone	ND	0.339	0.339	ND	1.00	1.00	11/26/24	AW	1
Methyl tert-butyl ether(MTBE)	ND	0.278	0.278	ND	1.00	1.00	11/26/24	AW	1
Methylene Chloride	ND	0.863	0.863	ND	3.00	3.00	11/26/24	AW	1
Naphthalene	ND	0.200	0.200	ND	1.05	1.05	11/26/24	AW	1
n-Butylbenzene	ND	0.182	0.182	ND	1.00	1.00	11/26/24	AW	1
o-Xylene	0.310	0.230	0.230	1.35	1.00	1.00	11/26/24	AW	1
Propylene	ND	0.581	0.581	ND	1.00	1.00	11/26/24	AW	1
sec-Butylbenzene	ND	0.182	0.182	ND	1.00	1.00	11/26/24	AW	1
Styrene	ND	0.235	0.235	ND	1.00	1.00	11/26/24	AW	1
Tetrachloroethene	ND	0.037	0.037	ND	0.25	0.25	11/26/24	AW	1
Tetrahydrofuran	ND	0.339	0.339	ND	1.00	1.00	11/26/24	AW	1
Toluene	1.03	0.266	0.266	3.88	1.00	1.00	11/26/24	AW	1
Trans-1,2-Dichloroethene	ND	0.252	0.252	ND	1.00	1.00	11/26/24	AW	1
trans-1,3-Dichloropropene	ND	0.221	0.221	ND	1.00	1.00	11/26/24	AW	1
Trichloroethene	ND	0.037	0.037	ND	0.20	0.20	11/26/24	AW	1
Trichlorofluoromethane	0.208	0.178	0.178	1.17	1.00	1.00	11/26/24	AW	1
Trichlorotrifluoroethane	ND	0.131	0.131	ND	1.00	1.00	11/26/24	AW	1
Vinyl Chloride	ND	0.078	0.078	ND	0.20	0.20	11/26/24	AW	1
<u>QA/QC Surrogates/Internals</u>									
% Bromofluorobenzene	96	%	%	96	%	%	11/26/24	AW	1
% IS-1,4-Difluorobenzene	95	%	%	95	%	%	11/26/24	AW	1
% IS-Bromochloromethane	96	%	%	96	%	%	11/26/24	AW	1
% IS-Chlorobenzene-d5	94	%	%	94	%	%	11/26/24	AW	1

Client ID: IA-2

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution

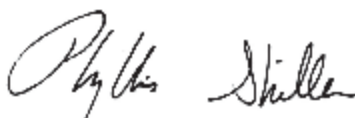
1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected BRL=Below Reporting Level L=Biased Low LOD=Limit of Detection MDL=Method Detection Limit1

QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

December 20, 2024

Reviewed and Released by: Rashmi Makol, Project Manager



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102



Analysis Report

December 20, 2024

FOR: Attn: Ariel Czemerinski
AMC Engineering PLLC
18-36 42nd Street
Astoria, NY 11105

Sample Information

Matrix: AIR
Location Code: AMC-ENG
Rush Request: Standard
P.O.#:
Canister Id: 23344

Custody Information

Collected by: AE
Received by: CP
Analyzed by: see "By" below

Date Time
11/25/24 17:05
11/26/24 17:46

Laboratory Data

SDG ID: GCS16244
Phoenix ID: CS16245

Project ID: 218 FRONT STREET
Client ID: IA-1

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution
Volatiles (TO15)									
1,1,1,2-Tetrachloroethane	ND	0.146	0.146	ND	1.00	1.00	11/26/24	AW	1
1,1,1-Trichloroethane	ND	0.183	0.183	ND	1.00	1.00	11/26/24	AW	1
1,1,2,2-Tetrachloroethane	ND	0.146	0.146	ND	1.00	1.00	11/26/24	AW	1
1,1,2-Trichloroethane	ND	0.183	0.183	ND	1.00	1.00	11/26/24	AW	1
1,1-Dichloroethane	ND	0.247	0.247	ND	1.00	1.00	11/26/24	AW	1
1,1-Dichloroethene	ND	0.051	0.051	ND	0.20	0.20	11/26/24	AW	1
1,2,4-Trichlorobenzene	ND	0.135	0.135	ND	1.00	1.00	11/26/24	AW	1
1,2,4-Trimethylbenzene	ND	0.204	0.204	ND	1.00	1.00	11/26/24	AW	1
1,2-Dibromoethane(EDB)	ND	0.130	0.130	ND	1.00	1.00	11/26/24	AW	1
1,2-Dichlorobenzene	ND	0.166	0.166	ND	1.00	1.00	11/26/24	AW	1
1,2-Dichloroethane	ND	0.247	0.247	ND	1.00	1.00	11/26/24	AW	1
1,2-dichloropropane	ND	0.217	0.217	ND	1.00	1.00	11/26/24	AW	1
1,2-Dichlorotetrafluoroethane	ND	0.143	0.143	ND	1.00	1.00	11/26/24	AW	1
1,3,5-Trimethylbenzene	ND	0.204	0.204	ND	1.00	1.00	11/26/24	AW	1
1,3-Butadiene	ND	0.452	0.452	ND	1.00	1.00	11/26/24	AW	1
1,3-Dichlorobenzene	ND	0.166	0.166	ND	1.00	1.00	11/26/24	AW	1
1,4-Dichlorobenzene	ND	0.166	0.166	ND	1.00	1.00	11/26/24	AW	1
1,4-Dioxane	ND	0.278	0.278	ND	1.00	1.00	11/26/24	AW	1
2-Hexanone(MBK)	ND	0.244	0.244	ND	1.00	1.00	11/26/24	AW	1
4-Ethyltoluene	ND	0.204	0.204	ND	1.00	1.00	11/26/24	AW	1
4-Isopropyltoluene	ND	0.182	0.182	ND	1.00	1.00	11/26/24	AW	1
4-Methyl-2-pentanone(MIBK)	ND	0.244	0.244	ND	1.00	1.00	11/26/24	AW	1
Acetone	13.1	0.421	0.421	31.1	1.00	1.00	11/26/24	AW	1
Acrylonitrile	ND	0.461	0.461	ND	1.00	1.00	11/26/24	AW	1
Benzene	ND	0.313	0.313	ND	1.00	1.00	11/26/24	AW	1
Benzyl chloride	ND	0.193	0.193	ND	1.00	1.00	11/26/24	AW	1

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution
Bromodichloromethane	ND	0.149	0.149	ND	1.00	1.00	11/26/24	AW	1
Bromoform	ND	0.097	0.097	ND	1.00	1.00	11/26/24	AW	1
Bromomethane	ND	0.258	0.258	ND	1.00	1.00	11/26/24	AW	1
Carbon Disulfide	ND	0.321	0.321	ND	1.00	1.00	11/26/24	AW	1
Carbon Tetrachloride	0.078	0.032	0.032	0.49	0.20	0.20	11/26/24	AW	1
Chlorobenzene	ND	0.217	0.217	ND	1.00	1.00	11/26/24	AW	1
Chloroethane	ND	0.379	0.379	ND	1.00	1.00	11/26/24	AW	1
Chloroform	ND	0.205	0.205	ND	1.00	1.00	11/26/24	AW	1
Chloromethane	0.601	0.485	0.485	1.24	1.00	1.00	11/26/24	AW	1
Cis-1,2-Dichloroethene	ND	0.051	0.051	ND	0.20	0.20	11/26/24	AW	1
cis-1,3-Dichloropropene	ND	0.221	0.221	ND	1.00	1.00	11/26/24	AW	1
Cyclohexane	ND	0.291	0.291	ND	1.00	1.00	11/26/24	AW	1
Dibromochloromethane	ND	0.118	0.118	ND	1.00	1.00	11/26/24	AW	1
Dichlorodifluoromethane	0.458	0.202	0.202	2.26	1.00	1.00	11/26/24	AW	1
Ethanol	38.1	0.531	0.531	71.7	1.00	1.00	11/26/24	AW	1
Ethyl acetate	ND	0.278	0.278	ND	1.00	1.00	11/26/24	AW	1
Ethylbenzene	ND	0.230	0.230	ND	1.00	1.00	11/26/24	AW	1
Heptane	ND	0.244	0.244	ND	1.00	1.00	11/26/24	AW	1
Hexachlorobutadiene	ND	0.094	0.094	ND	1.00	1.00	11/26/24	AW	1
Hexane	ND	0.284	0.284	ND	1.00	1.00	11/26/24	AW	1
Isooctane	ND	0.215	0.215	ND	1.00	1.00	11/26/24	AW	1
Isopropylalcohol	2.83	0.407	0.407	6.95	1.00	1.00	11/26/24	AW	1
Isopropylbenzene	ND	0.204	0.204	ND	1.00	1.00	11/26/24	AW	1
m,p-Xylene	ND	0.230	0.230	ND	1.00	1.00	11/26/24	AW	1
Methyl Ethyl Ketone	ND	0.339	0.339	ND	1.00	1.00	11/26/24	AW	1
Methyl tert-butyl ether(MTBE)	ND	0.278	0.278	ND	1.00	1.00	11/26/24	AW	1
Methylene Chloride	ND	0.863	0.863	ND	3.00	3.00	11/26/24	AW	1
Naphthalene	ND	0.200	0.200	ND	1.05	1.05	11/26/24	AW	1
n-Butylbenzene	ND	0.182	0.182	ND	1.00	1.00	11/26/24	AW	1
o-Xylene	ND	0.230	0.230	ND	1.00	1.00	11/26/24	AW	1
Propylene	ND	0.581	0.581	ND	1.00	1.00	11/26/24	AW	1
sec-Butylbenzene	ND	0.182	0.182	ND	1.00	1.00	11/26/24	AW	1
Styrene	ND	0.235	0.235	ND	1.00	1.00	11/26/24	AW	1
Tetrachloroethene	ND	0.037	0.037	ND	0.25	0.25	11/26/24	AW	1
Tetrahydrofuran	ND	0.339	0.339	ND	1.00	1.00	11/26/24	AW	1
Toluene	1.11	0.266	0.266	4.18	1.00	1.00	11/26/24	AW	1
Trans-1,2-Dichloroethene	ND	0.252	0.252	ND	1.00	1.00	11/26/24	AW	1
trans-1,3-Dichloropropene	ND	0.221	0.221	ND	1.00	1.00	11/26/24	AW	1
Trichloroethene	ND	0.037	0.037	ND	0.20	0.20	11/26/24	AW	1
Trichlorofluoromethane	0.208	0.178	0.178	1.17	1.00	1.00	11/26/24	AW	1
Trichlorotrifluoroethane	ND	0.131	0.131	ND	1.00	1.00	11/26/24	AW	1
Vinyl Chloride	ND	0.078	0.078	ND	0.20	0.20	11/26/24	AW	1
<u>QA/QC Surrogates/Internals</u>									
% Bromofluorobenzene	100	%	%	100	%	%	11/26/24	AW	1
% IS-1,4-Difluorobenzene	96	%	%	96	%	%	11/26/24	AW	1
% IS-Bromochloromethane	95	%	%	95	%	%	11/26/24	AW	1
% IS-Chlorobenzene-d5	92	%	%	92	%	%	11/26/24	AW	1

Client ID: IA-1

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution

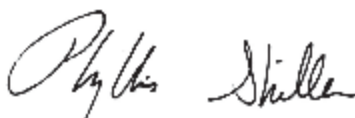
1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected BRL=Below Reporting Level L=Biased Low LOD=Limit of Detection MDL=Method Detection Limit1

QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

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Phyllis Shiller, Laboratory Director

December 20, 2024

Reviewed and Released by: Rashmi Makol, Project Manager



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102



Analysis Report

December 20, 2024

FOR: Attn: Ariel Czemerinski
AMC Engineering PLLC
18-36 42nd Street
Astoria, NY 11105

Sample Information

Matrix: AIR
Location Code: AMC-ENG
Rush Request: Standard
P.O.#:
Canister Id: 49198

Custody Information

Collected by: AE
Received by: CP
Analyzed by: see "By" below

Date Time
11/25/24 16:26
11/26/24 17:46

Laboratory Data

SDG ID: GCS16244
Phoenix ID: CS16246

Project ID: 218 FRONT STREET
Client ID: SS-2

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution
Volatiles (TO15)									
1,1,1,2-Tetrachloroethane	0.830	0.729	0.729	5.69	5.00	5.00	11/27/24	AW	5
1,1,1-Trichloroethane	ND	0.917	0.917	ND	5.00	5.00	11/27/24	AW	5
1,1,2,2-Tetrachloroethane	ND	0.729	0.729	ND	5.00	5.00	11/27/24	AW	5
1,1,2-Trichloroethane	ND	0.917	0.917	ND	5.00	5.00	11/27/24	AW	5
1,1-Dichloroethane	ND	1.24	1.24	ND	5.02	5.02	11/27/24	AW	5
1,1-Dichloroethene	ND	0.252	0.252	ND	1.00	1.00	11/27/24	AW	5
1,2,4-Trichlorobenzene	ND	0.674	0.674	ND	5.00	5.00	11/27/24	AW	5
1,2,4-Trimethylbenzene	ND	1.02	1.02	ND	5.01	5.01	11/27/24	AW	5
1,2-Dibromoethane(EDB)	ND	0.651	0.651	ND	5.00	5.00	11/27/24	AW	5
1,2-Dichlorobenzene	ND	0.832	0.832	ND	5.00	5.00	11/27/24	AW	5
1,2-Dichloroethane	ND	1.24	1.24	ND	5.02	5.02	11/27/24	AW	5
1,2-dichloropropane	ND	1.08	1.08	ND	4.99	4.99	11/27/24	AW	5
1,2-Dichlorotetrafluoroethane	ND	0.716	0.716	ND	5.00	5.00	11/27/24	AW	5
1,3,5-Trimethylbenzene	ND	1.02	1.02	ND	5.01	5.01	11/27/24	AW	5
1,3-Butadiene	ND	2.26	2.26	ND	5.00	5.00	11/27/24	AW	5
1,3-Dichlorobenzene	ND	0.832	0.832	ND	5.00	5.00	11/27/24	AW	5
1,4-Dichlorobenzene	ND	0.832	0.832	ND	5.00	5.00	11/27/24	AW	5
1,4-Dioxane	ND	1.39	1.39	ND	5.01	5.01	11/27/24	AW	5
2-Hexanone(MBK)	ND	1.22	1.22	ND	4.99	4.99	11/27/24	AW	5
4-Ethyltoluene	ND	1.02	1.02	ND	5.01	5.01	11/27/24	AW	5
4-Isopropyltoluene	ND	0.911	0.911	ND	5.00	5.00	11/27/24	AW	5
4-Methyl-2-pentanone(MIBK)	ND	1.22	1.22	ND	4.99	4.99	11/27/24	AW	5
Acetone	53.3	2.11	2.11	127	5.01	5.01	11/27/24	AW	5
Acrylonitrile	ND	2.31	2.31	ND	5.01	5.01	11/27/24	AW	5
Benzene	2.40	1.57	1.57	7.66	5.01	5.01	11/27/24	AW	5
Benzyl chloride	ND	0.966	0.966	ND	5.00	5.00	11/27/24	AW	5

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution
Bromodichloromethane	ND	0.747	0.747	ND	5.00	5.00	11/27/24	AW	5
Bromoform	ND	0.484	0.484	ND	5.00	5.00	11/27/24	AW	5
Bromomethane	ND	1.29	1.29	ND	5.01	5.01	11/27/24	AW	5
Carbon Disulfide	ND	1.61	1.61	ND	5.01	5.01	11/27/24	AW	5
Carbon Tetrachloride	ND	0.159	0.159	ND	1.00	1.00	11/27/24	AW	5
Chlorobenzene	ND	1.09	1.09	ND	5.01	5.01	11/27/24	AW	5
Chloroethane	ND	1.90	1.90	ND	5.01	5.01	11/27/24	AW	5
Chloroform	3.56	1.02	1.02	17.4	4.98	4.98	11/27/24	AW	5
Chloromethane	2.85	2.42	2.42	5.88	4.99	4.99	11/27/24	AW	5
Cis-1,2-Dichloroethene	ND	0.252	0.252	ND	1.00	1.00	11/27/24	AW	5
cis-1,3-Dichloropropene	ND	1.10	1.10	ND	4.99	4.99	11/27/24	AW	5
Cyclohexane	1.82	1.45	1.45	6.26	4.99	4.99	11/27/24	AW	5
Dibromochloromethane	ND	0.587	0.587	ND	5.00	5.00	11/27/24	AW	5
Dichlorodifluoromethane	ND	1.01	1.01	ND	4.99	4.99	11/27/24	AW	5
Ethanol	19.8	2.66	2.66	37.3	5.01	5.01	11/27/24	AW	5
Ethyl acetate	ND	1.39	1.39	ND	5.01	5.01	11/27/24	AW	5
Ethylbenzene	ND	1.15	1.15	ND	4.99	4.99	11/27/24	AW	5
Heptane	ND	1.22	1.22	ND	5.00	5.00	11/27/24	AW	5
Hexachlorobutadiene	ND	0.469	0.469	ND	5.00	5.00	11/27/24	AW	5
Hexane	1.68	1.42	1.42	5.92	5.00	5.00	11/27/24	AW	5
Isooctane	ND	1.07	1.07	ND	4.99	4.99	11/27/24	AW	5
Isopropylalcohol	3.67	2.04	2.04	9.02	5.01	5.01	11/27/24	AW	5
Isopropylbenzene	ND	1.02	1.02	ND	5.01	5.01	11/27/24	AW	5
m,p-Xylene	1.18	1.15	1.15	5.12	4.99	4.99	11/27/24	AW	5
Methyl Ethyl Ketone	ND	1.70	1.70	ND	5.01	5.01	11/27/24	AW	5
Methyl tert-butyl ether(MTBE)	ND	1.39	1.39	ND	5.01	5.01	11/27/24	AW	5
Methylene Chloride	ND	4.32	4.32	ND	15.0	15.0	11/27/24	AW	5
Naphthalene	ND	1.00	1.00	ND	5.23	5.23	11/27/24	AW	5
n-Butylbenzene	ND	0.911	0.911	ND	5.00	5.00	11/27/24	AW	5
o-Xylene	ND	1.15	1.15	ND	4.99	4.99	11/27/24	AW	5
Propylene	ND	2.91	2.91	ND	5.01	5.01	11/27/24	AW	5
sec-Butylbenzene	ND	0.911	0.911	ND	5.00	5.00	11/27/24	AW	5
Styrene	ND	1.17	1.17	ND	4.98	4.98	11/27/24	AW	5
Tetrachloroethene	4.57	0.184	0.184	31.0	1.25	1.25	11/27/24	AW	5
Tetrahydrofuran	ND	1.70	1.70	ND	5.01	5.01	11/27/24	AW	5
Toluene	2.00	1.33	1.33	7.53	5.01	5.01	11/27/24	AW	5
Trans-1,2-Dichloroethene	ND	1.26	1.26	ND	4.99	4.99	11/27/24	AW	5
trans-1,3-Dichloropropene	ND	1.10	1.10	ND	4.99	4.99	11/27/24	AW	5
Trichloroethene	ND	0.185	0.185	ND	0.99	0.99	11/27/24	AW	5
Trichlorofluoromethane	ND	0.891	0.891	ND	5.00	5.00	11/27/24	AW	5
Trichlorotrifluoroethane	ND	0.653	0.653	ND	5.00	5.00	11/27/24	AW	5
Vinyl Chloride	ND	0.390	0.390	ND	1.00	1.00	11/27/24	AW	5
QA/QC Surrogates/Internals									
% Bromofluorobenzene (5x)	97	%	%	97	%	%	11/27/24	AW	5
% IS-1,4-Difluorobenzene (5x)	92	%	%	92	%	%	11/27/24	AW	5
% IS-Bromochloromethane (5x)	92	%	%	92	%	%	11/27/24	AW	5
% IS-Chlorobenzene-d5 (5x)	91	%	%	91	%	%	11/27/24	AW	5

Client ID: SS-2

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution

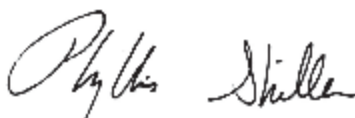
1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected BRL=Below Reporting Level L=Biased Low LOD=Limit of Detection MDL=Method Detection Limit1

QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

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Phyllis Shiller, Laboratory Director

December 20, 2024

Reviewed and Released by: Rashmi Makol, Project Manager



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102



Analysis Report

December 20, 2024

FOR: Attn: Ariel Czemerinski
AMC Engineering PLLC
18-36 42nd Street
Astoria, NY 11105

Sample Information

Matrix: AIR
Location Code: AMC-ENG
Rush Request: Standard
P.O.#:
Canister Id: 480

Custody Information

Collected by: AE
Received by: CP
Analyzed by: see "By" below

Date Time
11/25/24 17:03
11/26/24 17:46

Project ID: 218 FRONT STREET
Client ID: SS-1

Laboratory Data

SDG ID: GCS16244
Phoenix ID: CS16247

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution
Volatiles (TO15)									
1,1,1,2-Tetrachloroethane	ND	0.729	0.729	ND	5.00	5.00	11/27/24	AW	5
1,1,1-Trichloroethane	ND	0.917	0.917	ND	5.00	5.00	11/27/24	AW	5
1,1,2,2-Tetrachloroethane	ND	0.729	0.729	ND	5.00	5.00	11/27/24	AW	5
1,1,2-Trichloroethane	ND	0.917	0.917	ND	5.00	5.00	11/27/24	AW	5
1,1-Dichloroethane	ND	1.24	1.24	ND	5.02	5.02	11/27/24	AW	5
1,1-Dichloroethene	ND	0.252	0.252	ND	1.00	1.00	11/27/24	AW	5
1,2,4-Trichlorobenzene	ND	0.674	0.674	ND	5.00	5.00	11/27/24	AW	5
1,2,4-Trimethylbenzene	ND	1.02	1.02	ND	5.01	5.01	11/27/24	AW	5
1,2-Dibromoethane(EDB)	ND	0.651	0.651	ND	5.00	5.00	11/27/24	AW	5
1,2-Dichlorobenzene	ND	0.832	0.832	ND	5.00	5.00	11/27/24	AW	5
1,2-Dichloroethane	ND	1.24	1.24	ND	5.02	5.02	11/27/24	AW	5
1,2-dichloropropane	ND	1.08	1.08	ND	4.99	4.99	11/27/24	AW	5
1,2-Dichlorotetrafluoroethane	ND	0.716	0.716	ND	5.00	5.00	11/27/24	AW	5
1,3,5-Trimethylbenzene	ND	1.02	1.02	ND	5.01	5.01	11/27/24	AW	5
1,3-Butadiene	ND	2.26	2.26	ND	5.00	5.00	11/27/24	AW	5
1,3-Dichlorobenzene	ND	0.832	0.832	ND	5.00	5.00	11/27/24	AW	5
1,4-Dichlorobenzene	ND	0.832	0.832	ND	5.00	5.00	11/27/24	AW	5
1,4-Dioxane	ND	1.39	1.39	ND	5.01	5.01	11/27/24	AW	5
2-Hexanone(MBK)	ND	1.22	1.22	ND	4.99	4.99	11/27/24	AW	5
4-Ethyltoluene	ND	1.02	1.02	ND	5.01	5.01	11/27/24	AW	5
4-Isopropyltoluene	ND	0.911	0.911	ND	5.00	5.00	11/27/24	AW	5
4-Methyl-2-pentanone(MIBK)	ND	1.22	1.22	ND	4.99	4.99	11/27/24	AW	5
Acetone	433	E 2.11	2.11	1030	5.01	5.01	11/27/24	AW	5
Acrylonitrile	ND	2.31	2.31	ND	5.01	5.01	11/27/24	AW	5
Benzene	3.19	1.57	1.57	10.2	5.01	5.01	11/27/24	AW	5
Benzyl chloride	ND	0.966	0.966	ND	5.00	5.00	11/27/24	AW	5

Client ID: SS-1

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution
Bromodichloromethane	ND	0.747	0.747	ND	5.00	5.00	11/27/24	AW	5
Bromoform	ND	0.484	0.484	ND	5.00	5.00	11/27/24	AW	5
Bromomethane	ND	1.29	1.29	ND	5.01	5.01	11/27/24	AW	5
Carbon Disulfide	6.35	1.61	1.61	19.8	5.01	5.01	11/27/24	AW	5
Carbon Tetrachloride	ND	0.159	0.159	ND	1.00	1.00	11/27/24	AW	5
Chlorobenzene	ND	1.09	1.09	ND	5.01	5.01	11/27/24	AW	5
Chloroethane	ND	1.90	1.90	ND	5.01	5.01	11/27/24	AW	5
Chloroform	6.72	1.02	1.02	32.8	4.98	4.98	11/27/24	AW	5
Chloromethane	ND	2.42	2.42	ND	4.99	4.99	11/27/24	AW	5
Cis-1,2-Dichloroethene	ND	0.252	0.252	ND	1.00	1.00	11/27/24	AW	5
cis-1,3-Dichloropropene	ND	1.10	1.10	ND	4.99	4.99	11/27/24	AW	5
Cyclohexane	1.94	1.45	1.45	6.67	4.99	4.99	11/27/24	AW	5
Dibromochloromethane	ND	0.587	0.587	ND	5.00	5.00	11/27/24	AW	5
Dichlorodifluoromethane	ND	1.01	1.01	ND	4.99	4.99	11/27/24	AW	5
Ethanol	111	2.66	2.66	209	5.01	5.01	11/27/24	AW	5
Ethyl acetate	ND	1.39	1.39	ND	5.01	5.01	11/27/24	AW	5
Ethylbenzene	ND	1.15	1.15	ND	4.99	4.99	11/27/24	AW	5
Heptane	1.27	1.22	1.22	5.20	5.00	5.00	11/27/24	AW	5
Hexachlorobutadiene	ND	0.469	0.469	ND	5.00	5.00	11/27/24	AW	5
Hexane	2.96	1.42	1.42	10.4	5.00	5.00	11/27/24	AW	5
Isooctane	ND	1.07	1.07	ND	4.99	4.99	11/27/24	AW	5
Isopropylalcohol	8.48	2.04	2.04	20.8	5.01	5.01	11/27/24	AW	5
Isopropylbenzene	ND	1.02	1.02	ND	5.01	5.01	11/27/24	AW	5
m,p-Xylene	1.24	1.15	1.15	5.38	4.99	4.99	11/27/24	AW	5
Methyl Ethyl Ketone	ND	1.70	1.70	ND	5.01	5.01	11/27/24	AW	5
Methyl tert-butyl ether(MTBE)	ND	1.39	1.39	ND	5.01	5.01	11/27/24	AW	5
Methylene Chloride	ND	4.32	4.32	ND	15.0	15.0	11/27/24	AW	5
Naphthalene	ND	1.00	1.00	ND	5.23	5.23	11/27/24	AW	5
n-Butylbenzene	ND	0.911	0.911	ND	5.00	5.00	11/27/24	AW	5
o-Xylene	ND	1.15	1.15	ND	4.99	4.99	11/27/24	AW	5
Propylene	ND	2.91	2.91	ND	5.01	5.01	11/27/24	AW	5
sec-Butylbenzene	ND	0.911	0.911	ND	5.00	5.00	11/27/24	AW	5
Styrene	ND	1.17	1.17	ND	4.98	4.98	11/27/24	AW	5
Tetrachloroethene	44.1	0.184	0.184	299	1.25	1.25	11/27/24	AW	5
Tetrahydrofuran	ND	1.70	1.70	ND	5.01	5.01	11/27/24	AW	5
Toluene	2.14	1.33	1.33	8.06	5.01	5.01	11/27/24	AW	5
Trans-1,2-Dichloroethene	ND	1.26	1.26	ND	4.99	4.99	11/27/24	AW	5
trans-1,3-Dichloropropene	ND	1.10	1.10	ND	4.99	4.99	11/27/24	AW	5
Trichloroethene	ND	0.185	0.185	ND	0.99	0.99	11/27/24	AW	5
Trichlorofluoromethane	ND	0.891	0.891	ND	5.00	5.00	11/27/24	AW	5
Trichlorotrifluoroethane	ND	0.653	0.653	ND	5.00	5.00	11/27/24	AW	5
Vinyl Chloride	ND	0.390	0.390	ND	1.00	1.00	11/27/24	AW	5
QA/QC Surrogates/Internals									
% Bromofluorobenzene (5x)	98	%	%	98	%	%	11/27/24	AW	5
% IS-1,4-Difluorobenzene (5x)	93	%	%	93	%	%	11/27/24	AW	5
% IS-Bromochloromethane (5x)	90	%	%	90	%	%	11/27/24	AW	5
% IS-Chlorobenzene-d5 (5x)	89	%	%	89	%	%	11/27/24	AW	5

Client ID: SS-1

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution

1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.

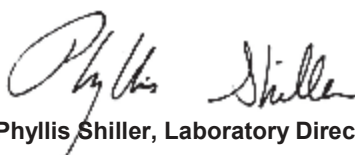
RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected BRL=Below Reporting Level L=Biased Low LOD=Limit of Detection MDL=Method Detection Limit1

QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

E = Estimated value quantitated above calibration range for this compound.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

December 20, 2024

Reviewed and Released by: Rashmi Makol, Project Manager



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102



Analysis Report

December 20, 2024

FOR: Attn: Ariel Czemerinski
AMC Engineering PLLC
18-36 42nd Street
Astoria, NY 11105

Sample Information

Matrix: AIR
Location Code: AMC-ENG
Rush Request: Standard
P.O.#:
Canister Id: 455

Custody Information

Collected by: AE
Received by: CP
Analyzed by: see "By" below

Date Time
11/25/24 15:55
11/26/24 17:46

Laboratory Data

SDG ID: GCS16244
Phoenix ID: CS16248

Project ID: 218 FRONT STREET
Client ID: IA-4

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution
Volatiles (TO15)									
1,1,1,2-Tetrachloroethane	ND	0.146	0.146	ND	1.00	1.00	11/26/24	AW	1
1,1,1-Trichloroethane	ND	0.183	0.183	ND	1.00	1.00	11/26/24	AW	1
1,1,2,2-Tetrachloroethane	ND	0.146	0.146	ND	1.00	1.00	11/26/24	AW	1
1,1,2-Trichloroethane	ND	0.183	0.183	ND	1.00	1.00	11/26/24	AW	1
1,1-Dichloroethane	ND	0.247	0.247	ND	1.00	1.00	11/26/24	AW	1
1,1-Dichloroethene	ND	0.051	0.051	ND	0.20	0.20	11/26/24	AW	1
1,2,4-Trichlorobenzene	ND	0.135	0.135	ND	1.00	1.00	11/26/24	AW	1
1,2,4-Trimethylbenzene	ND	0.204	0.204	ND	1.00	1.00	11/26/24	AW	1
1,2-Dibromoethane(EDB)	ND	0.130	0.130	ND	1.00	1.00	11/26/24	AW	1
1,2-Dichlorobenzene	ND	0.166	0.166	ND	1.00	1.00	11/26/24	AW	1
1,2-Dichloroethane	ND	0.247	0.247	ND	1.00	1.00	11/26/24	AW	1
1,2-dichloropropane	ND	0.217	0.217	ND	1.00	1.00	11/26/24	AW	1
1,2-Dichlorotetrafluoroethane	ND	0.143	0.143	ND	1.00	1.00	11/26/24	AW	1
1,3,5-Trimethylbenzene	ND	0.204	0.204	ND	1.00	1.00	11/26/24	AW	1
1,3-Butadiene	ND	0.452	0.452	ND	1.00	1.00	11/26/24	AW	1
1,3-Dichlorobenzene	ND	0.166	0.166	ND	1.00	1.00	11/26/24	AW	1
1,4-Dichlorobenzene	ND	0.166	0.166	ND	1.00	1.00	11/26/24	AW	1
1,4-Dioxane	ND	0.278	0.278	ND	1.00	1.00	11/26/24	AW	1
2-Hexanone(MBK)	ND	0.244	0.244	ND	1.00	1.00	11/26/24	AW	1
4-Ethyltoluene	ND	0.204	0.204	ND	1.00	1.00	11/26/24	AW	1
4-Isopropyltoluene	ND	0.182	0.182	ND	1.00	1.00	11/26/24	AW	1
4-Methyl-2-pentanone(MIBK)	ND	0.244	0.244	ND	1.00	1.00	11/26/24	AW	1
Acetone	11.4	0.421	0.421	27.1	1.00	1.00	11/26/24	AW	1
Acrylonitrile	ND	0.461	0.461	ND	1.00	1.00	11/26/24	AW	1
Benzene	0.420	0.313	0.313	1.34	1.00	1.00	11/26/24	AW	1
Benzyl chloride	ND	0.193	0.193	ND	1.00	1.00	11/26/24	AW	1

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution
Bromodichloromethane	ND	0.149	0.149	ND	1.00	1.00	11/26/24	AW	1
Bromoform	ND	0.097	0.097	ND	1.00	1.00	11/26/24	AW	1
Bromomethane	ND	0.258	0.258	ND	1.00	1.00	11/26/24	AW	1
Carbon Disulfide	ND	0.321	0.321	ND	1.00	1.00	11/26/24	AW	1
Carbon Tetrachloride	0.075	0.032	0.032	0.47	0.20	0.20	11/26/24	AW	1
Chlorobenzene	ND	0.217	0.217	ND	1.00	1.00	11/26/24	AW	1
Chloroethane	ND	0.379	0.379	ND	1.00	1.00	11/26/24	AW	1
Chloroform	ND	0.205	0.205	ND	1.00	1.00	11/26/24	AW	1
Chloromethane	0.614	0.485	0.485	1.27	1.00	1.00	11/26/24	AW	1
Cis-1,2-Dichloroethene	ND	0.051	0.051	ND	0.20	0.20	11/26/24	AW	1
cis-1,3-Dichloropropene	ND	0.221	0.221	ND	1.00	1.00	11/26/24	AW	1
Cyclohexane	ND	0.291	0.291	ND	1.00	1.00	11/26/24	AW	1
Dibromochloromethane	ND	0.118	0.118	ND	1.00	1.00	11/26/24	AW	1
Dichlorodifluoromethane	0.454	0.202	0.202	2.24	1.00	1.00	11/26/24	AW	1
Ethanol	22.4	0.531	0.531	42.2	1.00	1.00	11/26/24	AW	1
Ethyl acetate	ND	0.278	0.278	ND	1.00	1.00	11/26/24	AW	1
Ethylbenzene	ND	0.230	0.230	ND	1.00	1.00	11/26/24	AW	1
Heptane	ND	0.244	0.244	ND	1.00	1.00	11/26/24	AW	1
Hexachlorobutadiene	ND	0.094	0.094	ND	1.00	1.00	11/26/24	AW	1
Hexane	ND	0.284	0.284	ND	1.00	1.00	11/26/24	AW	1
Isooctane	ND	0.215	0.215	ND	1.00	1.00	11/26/24	AW	1
Isopropylalcohol	0.817	0.407	0.407	2.01	1.00	1.00	11/26/24	AW	1
Isopropylbenzene	ND	0.204	0.204	ND	1.00	1.00	11/26/24	AW	1
m,p-Xylene	0.318	0.230	0.230	1.38	1.00	1.00	11/26/24	AW	1
Methyl Ethyl Ketone	ND	0.339	0.339	ND	1.00	1.00	11/26/24	AW	1
Methyl tert-butyl ether(MTBE)	ND	0.278	0.278	ND	1.00	1.00	11/26/24	AW	1
Methylene Chloride	ND	0.863	0.863	ND	3.00	3.00	11/26/24	AW	1
Naphthalene	ND	0.200	0.200	ND	1.05	1.05	11/26/24	AW	1
n-Butylbenzene	ND	0.182	0.182	ND	1.00	1.00	11/26/24	AW	1
o-Xylene	ND	0.230	0.230	ND	1.00	1.00	11/26/24	AW	1
Propylene	ND	0.581	0.581	ND	1.00	1.00	11/26/24	AW	1
sec-Butylbenzene	ND	0.182	0.182	ND	1.00	1.00	11/26/24	AW	1
Styrene	0.248	0.235	0.235	1.06	1.00	1.00	11/26/24	AW	1
Tetrachloroethene	ND	0.037	0.037	ND	0.25	0.25	11/26/24	AW	1
Tetrahydrofuran	ND	0.339	0.339	ND	1.00	1.00	11/26/24	AW	1
Toluene	0.610	0.266	0.266	2.30	1.00	1.00	11/26/24	AW	1
Trans-1,2-Dichloroethene	ND	0.252	0.252	ND	1.00	1.00	11/26/24	AW	1
trans-1,3-Dichloropropene	ND	0.221	0.221	ND	1.00	1.00	11/26/24	AW	1
Trichloroethene	ND	0.037	0.037	ND	0.20	0.20	11/26/24	AW	1
Trichlorofluoromethane	0.211	0.178	0.178	1.18	1.00	1.00	11/26/24	AW	1
Trichlorotrifluoroethane	ND	0.131	0.131	ND	1.00	1.00	11/26/24	AW	1
Vinyl Chloride	ND	0.078	0.078	ND	0.20	0.20	11/26/24	AW	1
QA/QC Surrogates/Internals									
% Bromofluorobenzene	98	%	%	98	%	%	11/26/24	AW	1
% IS-1,4-Difluorobenzene	98	%	%	98	%	%	11/26/24	AW	1
% IS-Bromochloromethane	99	%	%	99	%	%	11/26/24	AW	1
% IS-Chlorobenzene-d5	96	%	%	96	%	%	11/26/24	AW	1

Client ID: IA-4

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution

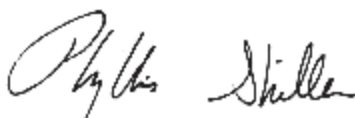
1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected BRL=Below Reporting Level L=Biased Low LOD=Limit of Detection MDL=Method Detection Limit1

QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

December 20, 2024

Reviewed and Released by: Rashmi Makol, Project Manager



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102



Analysis Report

December 20, 2024

FOR: Attn: Ariel Czemerinski
AMC Engineering PLLC
18-36 42nd Street
Astoria, NY 11105

Sample Information

Matrix: AIR
Location Code: AMC-ENG
Rush Request: Standard
P.O.#:
Canister Id: 12862

Custody Information

Collected by: AE
Received by: CP
Analyzed by: see "By" below

Date Time
11/25/24 15:42
11/26/24 17:46

Laboratory Data

SDG ID: GCS16244
Phoenix ID: CS16249

Project ID: 218 FRONT STREET
Client ID: DUPLICATE

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution
Volatiles (TO15)									
1,1,1,2-Tetrachloroethane	ND	0.146	0.146	ND	1.00	1.00	11/26/24	AW	1
1,1,1-Trichloroethane	ND	0.183	0.183	ND	1.00	1.00	11/26/24	AW	1
1,1,2,2-Tetrachloroethane	ND	0.146	0.146	ND	1.00	1.00	11/26/24	AW	1
1,1,2-Trichloroethane	ND	0.183	0.183	ND	1.00	1.00	11/26/24	AW	1
1,1-Dichloroethane	ND	0.247	0.247	ND	1.00	1.00	11/26/24	AW	1
1,1-Dichloroethene	ND	0.051	0.051	ND	0.20	0.20	11/26/24	AW	1
1,2,4-Trichlorobenzene	ND	0.135	0.135	ND	1.00	1.00	11/26/24	AW	1
1,2,4-Trimethylbenzene	ND	0.204	0.204	ND	1.00	1.00	11/26/24	AW	1
1,2-Dibromoethane(EDB)	ND	0.130	0.130	ND	1.00	1.00	11/26/24	AW	1
1,2-Dichlorobenzene	ND	0.166	0.166	ND	1.00	1.00	11/26/24	AW	1
1,2-Dichloroethane	ND	0.247	0.247	ND	1.00	1.00	11/26/24	AW	1
1,2-dichloropropane	ND	0.217	0.217	ND	1.00	1.00	11/26/24	AW	1
1,2-Dichlorotetrafluoroethane	ND	0.143	0.143	ND	1.00	1.00	11/26/24	AW	1
1,3,5-Trimethylbenzene	ND	0.204	0.204	ND	1.00	1.00	11/26/24	AW	1
1,3-Butadiene	ND	0.452	0.452	ND	1.00	1.00	11/26/24	AW	1
1,3-Dichlorobenzene	ND	0.166	0.166	ND	1.00	1.00	11/26/24	AW	1
1,4-Dichlorobenzene	ND	0.166	0.166	ND	1.00	1.00	11/26/24	AW	1
1,4-Dioxane	ND	0.278	0.278	ND	1.00	1.00	11/26/24	AW	1
2-Hexanone(MBK)	ND	0.244	0.244	ND	1.00	1.00	11/26/24	AW	1
4-Ethyltoluene	ND	0.204	0.204	ND	1.00	1.00	11/26/24	AW	1
4-Isopropyltoluene	ND	0.182	0.182	ND	1.00	1.00	11/26/24	AW	1
4-Methyl-2-pentanone(MIBK)	ND	0.244	0.244	ND	1.00	1.00	11/26/24	AW	1
Acetone	9.79	0.421	0.421	23.2	1.00	1.00	11/26/24	AW	1
Acrylonitrile	ND	0.461	0.461	ND	1.00	1.00	11/26/24	AW	1
Benzene	ND	0.313	0.313	ND	1.00	1.00	11/26/24	AW	1
Benzyl chloride	ND	0.193	0.193	ND	1.00	1.00	11/26/24	AW	1

Client ID: DUPLICATE

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution
Bromodichloromethane	ND	0.149	0.149	ND	1.00	1.00	11/26/24	AW	1
Bromoform	ND	0.097	0.097	ND	1.00	1.00	11/26/24	AW	1
Bromomethane	ND	0.258	0.258	ND	1.00	1.00	11/26/24	AW	1
Carbon Disulfide	ND	0.321	0.321	ND	1.00	1.00	11/26/24	AW	1
Carbon Tetrachloride	0.077	0.032	0.032	0.48	0.20	0.20	11/26/24	AW	1
Chlorobenzene	ND	0.217	0.217	ND	1.00	1.00	11/26/24	AW	1
Chloroethane	ND	0.379	0.379	ND	1.00	1.00	11/26/24	AW	1
Chloroform	ND	0.205	0.205	ND	1.00	1.00	11/26/24	AW	1
Chloromethane	0.608	0.485	0.485	1.25	1.00	1.00	11/26/24	AW	1
Cis-1,2-Dichloroethene	ND	0.051	0.051	ND	0.20	0.20	11/26/24	AW	1
cis-1,3-Dichloropropene	ND	0.221	0.221	ND	1.00	1.00	11/26/24	AW	1
Cyclohexane	ND	0.291	0.291	ND	1.00	1.00	11/26/24	AW	1
Dibromochloromethane	ND	0.118	0.118	ND	1.00	1.00	11/26/24	AW	1
Dichlorodifluoromethane	0.478	0.202	0.202	2.36	1.00	1.00	11/26/24	AW	1
Ethanol	30.1	0.531	0.531	56.7	1.00	1.00	11/26/24	AW	1
Ethyl acetate	ND	0.278	0.278	ND	1.00	1.00	11/26/24	AW	1
Ethylbenzene	ND	0.230	0.230	ND	1.00	1.00	11/26/24	AW	1
Heptane	ND	0.244	0.244	ND	1.00	1.00	11/26/24	AW	1
Hexachlorobutadiene	ND	0.094	0.094	ND	1.00	1.00	11/26/24	AW	1
Hexane	ND	0.284	0.284	ND	1.00	1.00	11/26/24	AW	1
Isooctane	ND	0.215	0.215	ND	1.00	1.00	11/26/24	AW	1
Isopropylalcohol	2.12	0.407	0.407	5.21	1.00	1.00	11/26/24	AW	1
Isopropylbenzene	ND	0.204	0.204	ND	1.00	1.00	11/26/24	AW	1
m,p-Xylene	0.258	0.230	0.230	1.12	1.00	1.00	11/26/24	AW	1
Methyl Ethyl Ketone	ND	0.339	0.339	ND	1.00	1.00	11/26/24	AW	1
Methyl tert-butyl ether(MTBE)	ND	0.278	0.278	ND	1.00	1.00	11/26/24	AW	1
Methylene Chloride	ND	0.863	0.863	ND	3.00	3.00	11/26/24	AW	1
Naphthalene	ND	0.200	0.200	ND	1.05	1.05	11/26/24	AW	1
n-Butylbenzene	ND	0.182	0.182	ND	1.00	1.00	11/26/24	AW	1
o-Xylene	ND	0.230	0.230	ND	1.00	1.00	11/26/24	AW	1
Propylene	ND	0.581	0.581	ND	1.00	1.00	11/26/24	AW	1
sec-Butylbenzene	ND	0.182	0.182	ND	1.00	1.00	11/26/24	AW	1
Styrene	ND	0.235	0.235	ND	1.00	1.00	11/26/24	AW	1
Tetrachloroethene	ND	0.037	0.037	ND	0.25	0.25	11/26/24	AW	1
Tetrahydrofuran	ND	0.339	0.339	ND	1.00	1.00	11/26/24	AW	1
Toluene	1.14	0.266	0.266	4.29	1.00	1.00	11/26/24	AW	1
Trans-1,2-Dichloroethene	ND	0.252	0.252	ND	1.00	1.00	11/26/24	AW	1
trans-1,3-Dichloropropene	ND	0.221	0.221	ND	1.00	1.00	11/26/24	AW	1
Trichloroethene	ND	0.037	0.037	ND	0.20	0.20	11/26/24	AW	1
Trichlorofluoromethane	0.216	0.178	0.178	1.21	1.00	1.00	11/26/24	AW	1
Trichlorotrifluoroethane	ND	0.131	0.131	ND	1.00	1.00	11/26/24	AW	1
Vinyl Chloride	ND	0.078	0.078	ND	0.20	0.20	11/26/24	AW	1
<u>QA/QC Surrogates/Internals</u>									
% Bromofluorobenzene	99	%	%	99	%	%	11/26/24	AW	1
% IS-1,4-Difluorobenzene	95	%	%	95	%	%	11/26/24	AW	1
% IS-Bromochloromethane	94	%	%	94	%	%	11/26/24	AW	1
% IS-Chlorobenzene-d5	92	%	%	92	%	%	11/26/24	AW	1

Client ID: DUPLICATE

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution

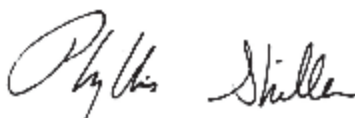
1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected BRL=Below Reporting Level L=Biased Low LOD=Limit of Detection MDL=Method Detection Limit1

QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

December 20, 2024

Reviewed and Released by: Rashmi Makol, Project Manager



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102



Analysis Report

December 20, 2024

FOR: Attn: Ariel Czemerinski
AMC Engineering PLLC
18-36 42nd Street
Astoria, NY 11105

Sample Information

Matrix: AIR
Location Code: AMC-ENG
Rush Request: Standard
P.O.#:
Canister Id: 21357

Custody Information

Collected by: AE
Received by: CP
Analyzed by: see "By" below

Date Time
11/25/24 15:42
11/26/24 17:46

Project ID: 218 FRONT STREET
Client ID: IA-3

Laboratory Data

SDG ID: GCS16244
Phoenix ID: CS16250

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution
Volatiles (TO15)									
1,1,1,2-Tetrachloroethane	ND	0.146	0.146	ND	1.00	1.00	11/26/24	AW	1
1,1,1-Trichloroethane	ND	0.183	0.183	ND	1.00	1.00	11/26/24	AW	1
1,1,2,2-Tetrachloroethane	ND	0.146	0.146	ND	1.00	1.00	11/26/24	AW	1
1,1,2-Trichloroethane	ND	0.183	0.183	ND	1.00	1.00	11/26/24	AW	1
1,1-Dichloroethane	ND	0.247	0.247	ND	1.00	1.00	11/26/24	AW	1
1,1-Dichloroethene	ND	0.051	0.051	ND	0.20	0.20	11/26/24	AW	1
1,2,4-Trichlorobenzene	ND	0.135	0.135	ND	1.00	1.00	11/26/24	AW	1
1,2,4-Trimethylbenzene	ND	0.204	0.204	ND	1.00	1.00	11/26/24	AW	1
1,2-Dibromoethane(EDB)	ND	0.130	0.130	ND	1.00	1.00	11/26/24	AW	1
1,2-Dichlorobenzene	ND	0.166	0.166	ND	1.00	1.00	11/26/24	AW	1
1,2-Dichloroethane	ND	0.247	0.247	ND	1.00	1.00	11/26/24	AW	1
1,2-dichloropropane	ND	0.217	0.217	ND	1.00	1.00	11/26/24	AW	1
1,2-Dichlorotetrafluoroethane	ND	0.143	0.143	ND	1.00	1.00	11/26/24	AW	1
1,3,5-Trimethylbenzene	ND	0.204	0.204	ND	1.00	1.00	11/26/24	AW	1
1,3-Butadiene	ND	0.452	0.452	ND	1.00	1.00	11/26/24	AW	1
1,3-Dichlorobenzene	ND	0.166	0.166	ND	1.00	1.00	11/26/24	AW	1
1,4-Dichlorobenzene	ND	0.166	0.166	ND	1.00	1.00	11/26/24	AW	1
1,4-Dioxane	ND	0.278	0.278	ND	1.00	1.00	11/26/24	AW	1
2-Hexanone(MBK)	ND	0.244	0.244	ND	1.00	1.00	11/26/24	AW	1
4-Ethyltoluene	ND	0.204	0.204	ND	1.00	1.00	11/26/24	AW	1
4-Isopropyltoluene	ND	0.182	0.182	ND	1.00	1.00	11/26/24	AW	1
4-Methyl-2-pentanone(MIBK)	ND	0.244	0.244	ND	1.00	1.00	11/26/24	AW	1
Acetone	9.84	0.421	0.421	23.4	1.00	1.00	11/26/24	AW	1
Acrylonitrile	ND	0.461	0.461	ND	1.00	1.00	11/26/24	AW	1
Benzene	ND	0.313	0.313	ND	1.00	1.00	11/26/24	AW	1
Benzyl chloride	ND	0.193	0.193	ND	1.00	1.00	11/26/24	AW	1

Client ID: IA-3

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution
Bromodichloromethane	ND	0.149	0.149	ND	1.00	1.00	11/26/24	AW	1
Bromoform	ND	0.097	0.097	ND	1.00	1.00	11/26/24	AW	1
Bromomethane	ND	0.258	0.258	ND	1.00	1.00	11/26/24	AW	1
Carbon Disulfide	ND	0.321	0.321	ND	1.00	1.00	11/26/24	AW	1
Carbon Tetrachloride	0.078	0.032	0.032	0.49	0.20	0.20	11/26/24	AW	1
Chlorobenzene	ND	0.217	0.217	ND	1.00	1.00	11/26/24	AW	1
Chloroethane	ND	0.379	0.379	ND	1.00	1.00	11/26/24	AW	1
Chloroform	ND	0.205	0.205	ND	1.00	1.00	11/26/24	AW	1
Chloromethane	0.624	0.485	0.485	1.29	1.00	1.00	11/26/24	AW	1
Cis-1,2-Dichloroethene	ND	0.051	0.051	ND	0.20	0.20	11/26/24	AW	1
cis-1,3-Dichloropropene	ND	0.221	0.221	ND	1.00	1.00	11/26/24	AW	1
Cyclohexane	ND	0.291	0.291	ND	1.00	1.00	11/26/24	AW	1
Dibromochloromethane	ND	0.118	0.118	ND	1.00	1.00	11/26/24	AW	1
Dichlorodifluoromethane	0.466	0.202	0.202	2.30	1.00	1.00	11/26/24	AW	1
Ethanol	27.1	0.531	0.531	51.0	1.00	1.00	11/26/24	AW	1
Ethyl acetate	ND	0.278	0.278	ND	1.00	1.00	11/26/24	AW	1
Ethylbenzene	ND	0.230	0.230	ND	1.00	1.00	11/26/24	AW	1
Heptane	ND	0.244	0.244	ND	1.00	1.00	11/26/24	AW	1
Hexachlorobutadiene	ND	0.094	0.094	ND	1.00	1.00	11/26/24	AW	1
Hexane	ND	0.284	0.284	ND	1.00	1.00	11/26/24	AW	1
Isooctane	ND	0.215	0.215	ND	1.00	1.00	11/26/24	AW	1
Isopropylalcohol	2.04	0.407	0.407	5.01	1.00	1.00	11/26/24	AW	1
Isopropylbenzene	ND	0.204	0.204	ND	1.00	1.00	11/26/24	AW	1
m,p-Xylene	0.251	0.230	0.230	1.09	1.00	1.00	11/26/24	AW	1
Methyl Ethyl Ketone	ND	0.339	0.339	ND	1.00	1.00	11/26/24	AW	1
Methyl tert-butyl ether(MTBE)	ND	0.278	0.278	ND	1.00	1.00	11/26/24	AW	1
Methylene Chloride	ND	0.863	0.863	ND	3.00	3.00	11/26/24	AW	1
Naphthalene	ND	0.200	0.200	ND	1.05	1.05	11/26/24	AW	1
n-Butylbenzene	ND	0.182	0.182	ND	1.00	1.00	11/26/24	AW	1
o-Xylene	ND	0.230	0.230	ND	1.00	1.00	11/26/24	AW	1
Propylene	ND	0.581	0.581	ND	1.00	1.00	11/26/24	AW	1
sec-Butylbenzene	ND	0.182	0.182	ND	1.00	1.00	11/26/24	AW	1
Styrene	ND	0.235	0.235	ND	1.00	1.00	11/26/24	AW	1
Tetrachloroethene	0.391	0.037	0.037	2.65	0.25	0.25	11/26/24	AW	1
Tetrahydrofuran	ND	0.339	0.339	ND	1.00	1.00	11/26/24	AW	1
Toluene	1.13	0.266	0.266	4.26	1.00	1.00	11/26/24	AW	1
Trans-1,2-Dichloroethene	ND	0.252	0.252	ND	1.00	1.00	11/26/24	AW	1
trans-1,3-Dichloropropene	ND	0.221	0.221	ND	1.00	1.00	11/26/24	AW	1
Trichloroethene	0.146	0.037	0.037	0.78	0.20	0.20	11/26/24	AW	1
Trichlorofluoromethane	0.216	0.178	0.178	1.21	1.00	1.00	11/26/24	AW	1
Trichlorotrifluoroethane	ND	0.131	0.131	ND	1.00	1.00	11/26/24	AW	1
Vinyl Chloride	ND	0.078	0.078	ND	0.20	0.20	11/26/24	AW	1
<u>QA/QC Surrogates/Internals</u>									
% Bromofluorobenzene	100	%	%	100	%	%	11/26/24	AW	1
% IS-1,4-Difluorobenzene	94	%	%	94	%	%	11/26/24	AW	1
% IS-Bromochloromethane	95	%	%	95	%	%	11/26/24	AW	1
% IS-Chlorobenzene-d5	91	%	%	91	%	%	11/26/24	AW	1

Client ID: IA-3

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution

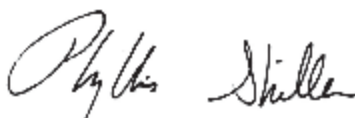
1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected BRL=Below Reporting Level L=Biased Low LOD=Limit of Detection MDL=Method Detection Limit1

QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

December 20, 2024

Reviewed and Released by: Rashmi Makol, Project Manager



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102



Analysis Report

December 20, 2024

FOR: Attn: Ariel Czemerinski
AMC Engineering PLLC
18-36 42nd Street
Astoria, NY 11105

Sample Information

Matrix: AIR
Location Code: AMC-ENG
Rush Request: Standard
P.O.#:
Canister Id: 16001

Custody Information

Collected by: AE
Received by: CP
Analyzed by: see "By" below

Date Time
11/25/24 17:30
11/26/24 17:46

Laboratory Data

SDG ID: GCS16244
Phoenix ID: CS16251

Project ID: 218 FRONT STREET
Client ID: OA-1

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution
Volatiles (TO15)									
1,1,1,2-Tetrachloroethane	ND	0.146	0.146	ND	1.00	1.00	11/26/24	AW	1
1,1,1-Trichloroethane	ND	0.183	0.183	ND	1.00	1.00	11/26/24	AW	1
1,1,2,2-Tetrachloroethane	ND	0.146	0.146	ND	1.00	1.00	11/26/24	AW	1
1,1,2-Trichloroethane	ND	0.183	0.183	ND	1.00	1.00	11/26/24	AW	1
1,1-Dichloroethane	ND	0.247	0.247	ND	1.00	1.00	11/26/24	AW	1
1,1-Dichloroethene	ND	0.051	0.051	ND	0.20	0.20	11/26/24	AW	1
1,2,4-Trichlorobenzene	ND	0.135	0.135	ND	1.00	1.00	11/26/24	AW	1
1,2,4-Trimethylbenzene	ND	0.204	0.204	ND	1.00	1.00	11/26/24	AW	1
1,2-Dibromoethane(EDB)	ND	0.130	0.130	ND	1.00	1.00	11/26/24	AW	1
1,2-Dichlorobenzene	ND	0.166	0.166	ND	1.00	1.00	11/26/24	AW	1
1,2-Dichloroethane	ND	0.247	0.247	ND	1.00	1.00	11/26/24	AW	1
1,2-dichloropropane	ND	0.217	0.217	ND	1.00	1.00	11/26/24	AW	1
1,2-Dichlorotetrafluoroethane	ND	0.143	0.143	ND	1.00	1.00	11/26/24	AW	1
1,3,5-Trimethylbenzene	ND	0.204	0.204	ND	1.00	1.00	11/26/24	AW	1
1,3-Butadiene	ND	0.452	0.452	ND	1.00	1.00	11/26/24	AW	1
1,3-Dichlorobenzene	ND	0.166	0.166	ND	1.00	1.00	11/26/24	AW	1
1,4-Dichlorobenzene	ND	0.166	0.166	ND	1.00	1.00	11/26/24	AW	1
1,4-Dioxane	ND	0.278	0.278	ND	1.00	1.00	11/26/24	AW	1
2-Hexanone(MBK)	ND	0.244	0.244	ND	1.00	1.00	11/26/24	AW	1
4-Ethyltoluene	ND	0.204	0.204	ND	1.00	1.00	11/26/24	AW	1
4-Isopropyltoluene	ND	0.182	0.182	ND	1.00	1.00	11/26/24	AW	1
4-Methyl-2-pentanone(MIBK)	ND	0.244	0.244	ND	1.00	1.00	11/26/24	AW	1
Acetone	4.02	0.421	0.421	9.5	1.00	1.00	11/26/24	AW	1
Acrylonitrile	ND	0.461	0.461	ND	1.00	1.00	11/26/24	AW	1
Benzene	ND	0.313	0.313	ND	1.00	1.00	11/26/24	AW	1
Benzyl chloride	ND	0.193	0.193	ND	1.00	1.00	11/26/24	AW	1

Client ID: OA-1

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution
Bromodichloromethane	ND	0.149	0.149	ND	1.00	1.00	11/26/24	AW	1
Bromoform	ND	0.097	0.097	ND	1.00	1.00	11/26/24	AW	1
Bromomethane	ND	0.258	0.258	ND	1.00	1.00	11/26/24	AW	1
Carbon Disulfide	ND	0.321	0.321	ND	1.00	1.00	11/26/24	AW	1
Carbon Tetrachloride	0.076	0.032	0.032	0.48	0.20	0.20	11/26/24	AW	1
Chlorobenzene	ND	0.217	0.217	ND	1.00	1.00	11/26/24	AW	1
Chloroethane	ND	0.379	0.379	ND	1.00	1.00	11/26/24	AW	1
Chloroform	ND	0.205	0.205	ND	1.00	1.00	11/26/24	AW	1
Chloromethane	0.612	0.485	0.485	1.26	1.00	1.00	11/26/24	AW	1
Cis-1,2-Dichloroethene	ND	0.051	0.051	ND	0.20	0.20	11/26/24	AW	1
cis-1,3-Dichloropropene	ND	0.221	0.221	ND	1.00	1.00	11/26/24	AW	1
Cyclohexane	ND	0.291	0.291	ND	1.00	1.00	11/26/24	AW	1
Dibromochloromethane	ND	0.118	0.118	ND	1.00	1.00	11/26/24	AW	1
Dichlorodifluoromethane	0.479	0.202	0.202	2.37	1.00	1.00	11/26/24	AW	1
Ethanol	10.7	0.531	0.531	20.1	1.00	1.00	11/26/24	AW	1
Ethyl acetate	ND	0.278	0.278	ND	1.00	1.00	11/26/24	AW	1
Ethylbenzene	ND	0.230	0.230	ND	1.00	1.00	11/26/24	AW	1
Heptane	ND	0.244	0.244	ND	1.00	1.00	11/26/24	AW	1
Hexachlorobutadiene	ND	0.094	0.094	ND	1.00	1.00	11/26/24	AW	1
Hexane	ND	0.284	0.284	ND	1.00	1.00	11/26/24	AW	1
Isooctane	ND	0.215	0.215	ND	1.00	1.00	11/26/24	AW	1
Isopropylalcohol	0.846	0.407	0.407	2.08	1.00	1.00	11/26/24	AW	1
Isopropylbenzene	ND	0.204	0.204	ND	1.00	1.00	11/26/24	AW	1
m,p-Xylene	ND	0.230	0.230	ND	1.00	1.00	11/26/24	AW	1
Methyl Ethyl Ketone	ND	0.339	0.339	ND	1.00	1.00	11/26/24	AW	1
Methyl tert-butyl ether(MTBE)	ND	0.278	0.278	ND	1.00	1.00	11/26/24	AW	1
Methylene Chloride	ND	0.863	0.863	ND	3.00	3.00	11/26/24	AW	1
Naphthalene	ND	0.200	0.200	ND	1.05	1.05	11/26/24	AW	1
n-Butylbenzene	ND	0.182	0.182	ND	1.00	1.00	11/26/24	AW	1
o-Xylene	ND	0.230	0.230	ND	1.00	1.00	11/26/24	AW	1
Propylene	ND	0.581	0.581	ND	1.00	1.00	11/26/24	AW	1
sec-Butylbenzene	ND	0.182	0.182	ND	1.00	1.00	11/26/24	AW	1
Styrene	ND	0.235	0.235	ND	1.00	1.00	11/26/24	AW	1
Tetrachloroethene	0.149	0.037	0.037	1.01	0.25	0.25	11/26/24	AW	1
Tetrahydrofuran	ND	0.339	0.339	ND	1.00	1.00	11/26/24	AW	1
Toluene	0.389	0.266	0.266	1.47	1.00	1.00	11/26/24	AW	1
Trans-1,2-Dichloroethene	ND	0.252	0.252	ND	1.00	1.00	11/26/24	AW	1
trans-1,3-Dichloropropene	ND	0.221	0.221	ND	1.00	1.00	11/26/24	AW	1
Trichloroethene	0.037	0.037	0.037	0.20	0.20	0.20	11/26/24	AW	1
Trichlorofluoromethane	0.215	0.178	0.178	1.21	1.00	1.00	11/26/24	AW	1
Trichlorotrifluoroethane	ND	0.131	0.131	ND	1.00	1.00	11/26/24	AW	1
Vinyl Chloride	ND	0.078	0.078	ND	0.20	0.20	11/26/24	AW	1
QA/QC Surrogates/Internals									
% Bromofluorobenzene	97	%	%	97	%	%	11/26/24	AW	1
% IS-1,4-Difluorobenzene	93	%	%	93	%	%	11/26/24	AW	1
% IS-Bromochloromethane	95	%	%	95	%	%	11/26/24	AW	1
% IS-Chlorobenzene-d5	92	%	%	92	%	%	11/26/24	AW	1

Client ID: OA-1

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution

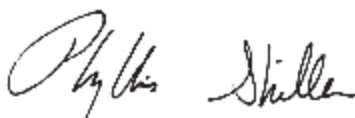
1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected BRL=Below Reporting Level L=Biased Low LOD=Limit of Detection MDL=Method Detection Limit1

QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

December 20, 2024

Reviewed and Released by: Rashmi Makol, Project Manager

TO-15

Data Section



**QA/QC Review of Method TO-15 Volatiles Data
for Phoenix Environmental Laboratories, Inc.
SDG: GCS16244**

**7 Soil Vapor/Air Samples and 1 Field Duplicate
Collected November 25, 2024**

Prepared by: Donald Anné
January 9, 2025

Geology

Hydrology

Remediation

Water Supply

Holding Times: Samples were analyzed within recommended USEPA SW-846 holding times.

GC/MS Tuning and Mass Calibration: The BFB tuning criteria were within control limits.

Initial Calibration: The average RRFs for target compounds were above the allowable minimum (0.010) and the %RSDs were below the allowable maximum (30%), as required.

Continuing Calibration: The RRFs for target compounds were above the allowable minimum (0.010), as required.

The %Ds for benzyl chloride, 1,2,4-trichlorobenzene, naphthalene, and 1,2,4-trichlorobenzene (sim) were above the allowable maximum (30%) on 11-26-24 (1126_02.D). The %Ds for benzyl chloride, 1,2,4-trichlorobenzene, naphthalene, and 1,2,4-trichlorobenzene (sim) were above the allowable maximum (30%) on 11-27-24 (1126_21.D). Positive results for these compounds should be considered estimated (J) in associated samples.

Blanks: The analyses of method blanks reported target compounds as not detected.

Internal Standard Area Summary: The internal standard areas and retention times were within control limits.

Surrogate Recovery: The surrogate recoveries were within control limits for the soil vapor/air samples.

Laboratory Control Sample: The percent recoveries for target compounds were within QC limits for air/vapor sample CS16244 LCS.

Field Duplicates: The relative percent differences for applicable compounds were below the allowable maximum (25%) for soil vapor/air field duplicate pair IA-3/DUPLICATE (attached table).

Compound ID: Checked compounds were within quantitation limits. The mass spectra for detected compounds contained the primary and secondary ions, as outlined in the method.

Canister Pressure: The laboratory reported the received samples with a residual vacuum, as required.

7A
AIR CONTINUING CALIBRATION CHECK

Lab Name: Phoenix Environmental Labs Client: AMC-ENG

Lab Code: Phoenix Case No.: SAS No.: SDG No.: GCS16244

Instrument: CHEM24 Calibration Date: 11/26/24 Time: 13:54

Lab File Id: 1126_02.D Init. Calib. Date(s): 10/18/24 10/18/24

Heated Purge (Y/N): Y Init. Calib. Times: 15:10 22:33

GC Column: RTX-1 Method File: 24_AIR_1018.M

COMPOUND	RRF	RRF1	RRF MIN	%D	% D LIMITS
Propylene	1.047	1.160		-10.8	30
Dichlorodifluoromethane	2.586	2.554		1.2	30
Chloromethane	1.275	1.543		-21.0	30
1,2-Dichlorotetrafluoroethane	2.447	2.579		-5.4	30
Vinyl Chloride	1.111	1.189		-7.0	30
1,3-Butadiene	0.961	1.087		-13.1	30
Bromomethane	0.984	1.006		-2.2	30
Chloroethane	0.438	0.469		-7.1	30
Ethanol	0.581	0.716		-23.2	30
Acetone	1.976	2.238		-13.3	30
Trichlorofluoromethane	2.853	2.885		-1.1	30
Isopropylalcohol	2.456	2.762		-12.5	30
Acrylonitrile	0.989	1.028		-3.9	30
1,1-Dichloroethene	1.843	1.839		0.2	30
Methylene Chloride	1.667	1.888		-13.3	30
Carbon Disulfide	2.675	2.651		0.9	30
Trichlorotrifluoroethane	2.236	2.227		0.4	30
Trans-1,2-Dichloroethene	1.764	1.702		3.5	30
1,1-Dichloroethane	2.068	2.139		-3.4	30
Methyl tert-butyl ether(MTBE)	2.326	1.970		15.3	30
Methyl Ethyl Ketone	2.643	2.933		-11.0	30
Cis-1,2-Dichloroethene	1.660	1.571		5.4	30
Hexane	1.824	1.687		7.5	30
Chloroform	2.121	2.142		-1.0	30
Ethyl acetate	0.388	0.366		5.7	30
Tetrahydrofuran	1.251	1.231		1.6	30
1,2-Dichloroethane	1.553	1.656		-6.6	30
1,1,1-Trichloroethane	2.236	2.258		-1.0	30
Benzene	2.814	2.533		10.0	30
Carbon Tetrachloride	2.576	2.625		-1.9	30
Cyclohexane	1.107	1.029		7.0	30
1,2-dichloropropane	0.429	0.431		-0.5	30
Bromodichloromethane	0.697	0.711		-2.0	30
Trichloroethene	0.502	0.495		1.4	30
2,2,4-trimethylpentane	1.797	1.834		-2.1	30

(*) Recommended RRF not met (+) %D exceeds criteria % (#) %D exceeds (maximum) criteria
%D: 20% of target compounds are allowed to be above criteria %, but must be less than the (maximum) %D
(#) Maximum %D not met.

7B
AIR CONTINUING CALIBRATION CHECK

Lab Name: Phoenix Environmental Labs Client: AMC-ENG

Lab Code: Phoenix Case No.: SAS No.: SDG No.: GCS16244

Instrument: CHEM24 Calibration Date: 11/26/24 Time: 13:54

Lab File Id: 1126_02.D Init. Calib. Date(s): 10/18/24 10/18/24

Heated Purge (Y/N): Y Init. Calib. Times: 15:10 22:33

GC Column: RTX-1 Method File: 24_AIR_1018.M

COMPOUND	RRF	RRF1	RRF MIN	%D	% D LIMITS
1,4-Dioxane	0.181	0.177		2.2	30
Heptane	0.716	0.779		-8.8	30
cis-1,3-Dichloropropene	0.519	0.495		4.6	30
4-Methyl-2-pentanone(MIBK)	0.917	0.997		-8.7	30
trans-1,3-Dichloropropene	0.423	0.380		10.2	30
1,1,2-Trichloroethane	0.414	0.403		2.7	30
Toluene	1.094	0.976		10.8	30
Dibromochloromethane	0.917	0.902		1.6	30
2-Hexanone(MBK)	0.787	0.759		3.6	30
1,2-Dibromoethane(EDB)	0.720	0.698		3.1	30
Tetrachloroethene	0.676	0.648		4.1	30
1,1,1,2-Tetrachloroethane	1.299	1.377		-6.0	30
Chlorobenzene	2.128	2.171		-2.0	30
Ethylbenzene	3.044	2.727		10.4	30
m,p-Xylene	2.287	1.743		23.8	30
Bromoform	1.951	1.948		0.2	30
Styrene	1.751	1.452		17.1	30
1,1,2,2-Tetrachloroethane	1.855	1.845		0.5	30
o-Xylene	2.440	2.295		5.9	30
Isopropylbenzene	3.612	3.545		1.9	30
4-Ethyltoluene	3.459	3.079		11.0	30
1,3,5-Trimethylbenzene	2.974	2.813		5.4	30
1,2,4-Trimethylbenzene	3.007	2.608		13.3	30
Benzyl chloride qfi	1.000	0.57		43.0 #	20
1,3-Dichlorobenzene	2.067	1.818		12.0	30
1,4-Dichlorobenzene	1.700	1.408		17.2	30
sec-Butylbenzene	4.478	4.226		5.6	30
4-Isopropyltoluene	4.192	3.806		9.2	30
1,2-Dichlorobenzene	1.961	1.670		14.8	30
n-Butylbenzene	2.927	2.180		25.5	30
1,2,4-Trichlorobenzene qfi	1.000	0.31		69.0 #	20
Naphthalene qfi	1.000	0.30		70.0 #	20
Hexachlorobutadiene	2.132	1.674		21.5	30
1,2-Dichlorotetrafluoroethane(sim)	2.534	2.510		0.9	30
Vinyl Chloride(sim)	1.180	1.237		-4.8	30

(*) Recommended RRF not met (+) %D exceeds criteria % (#) %D exceeds (maximum) criteria
%D: 20% of target compounds are allowed to be above criteria %, but must be less than the (maximum) %D
(#) Maximum %D not met.

7B
AIR CONTINUING CALIBRATION CHECK

Lab Name: Phoenix Environmental Labs Client: AMC-ENG

Lab Code: Phoenix Case No.: SAS No.: SDG No.: GCS16244

Instrument: CHEM24 Calibration Date: 11/26/24 Time: 13:54

Lab File Id: 1126_02.D Init. Calib. Date(s): 10/18/24 10/18/24

Heated Purge (Y/N): Y Init. Calib. Times: 15:10 22:33

GC Column: RTX-1 Method File: 24_AIR_1018.M

COMPOUND	RRF	RRF1	RRF MIN	%D	% D LIMITS
Bromomethane(sim)	1.059	0.979		7.6	30
Trichlorofluoromethane(sim)	2.932	2.962		-1.0	30
1,2-Dichloroethane(sim)	1.590	1.612		-1.4	30
1,1,1-Trichloroethane(sim)	2.390	2.417		-1.1	30
Benzene(sim)	3.031	2.466		18.6	30
Carbon Tetrachloride(sim)	2.578	2.641		-2.4	30
1,1-Dichloroethene(sim)	1.894	1.790		5.5	30
Trichlorotrifluoroethane(sim)	2.341	2.291		2.1	30
Trans-1,2-Dichloroethene(sim)	1.817	1.657		8.8	30
1,1-Dichloroethane(sim)	2.237	2.199		1.7	30
Cis-1,2-Dichloroethene(sim)	1.697	1.529		9.9	30
Chloroform(sim)	2.228	2.224		0.2	30
1,2-dichloropropane(sim)	0.455	0.458		-0.7	30
Bromodichloromethane(sim)	0.716	0.711		0.7	30
Trichloroethene(sim)	0.519	0.521		-0.4	30
1,4-Dioxane(sim)	0.183	0.177		3.3	30
cis-1,3-Dichloropropene(sim)	0.549	0.526		4.2	30
1,1,2-Trichloroethane(sim)	0.426	0.403		5.4	30
Dibromochloromethane(sim)	0.904	0.921		-1.9	30
1,2-Dibromoethane(EDB)(sim)	0.728	0.698		4.1	30
Tetrachloroethene(sim)	0.722	0.666		7.8	30
Bromoform(sim)	1.912	1.927		-0.8	30
m,p-Xylene(sim)	2.785	2.179		21.8	30
1,1,2,2-Tetrachloroethane(sim)	1.990	1.953		1.9	30
Benzyl chloride(sim) qfi	1.000	0.91		9.0	20
1,3-Dichlorobenzene(sim)	1.819	1.945		-6.9	30
1,4-Dichlorobenzene(sim)	1.446	1.408		2.6	30
sec-Butylbenzene(sim)	5.063	4.726		6.7	30
4-Isopropyltoluene(sim)	4.380	3.806		13.1	30
1,2-Dichlorobenzene(sim)	1.975	1.885		4.6	30
n-Butylbenzene(sim)	2.503	2.180		12.9	30
1,2,4-Trichlorobenzene(sim) qfi	1.000	0.52		48.0 #	20
Hexachlorobutadiene(sim)	2.108	1.662		21.2	30
% Bromofluorobenzene	1.294	1.305		-0.9	30

(*) Recommended RRF not met (+) %D exceeds criteria % (#) %D exceeds (maximum) criteria
%D: 20% of target compounds are allowed to be above criteria %, but must be less than the (maximum) %D
(#) Maximum %D not met.

7A
AIR CONTINUING CALIBRATION CHECK

Lab Name: Phoenix Environmental Labs Client: AMC-ENG

Lab Code: Phoenix Case No.: SAS No.: SDG No.: GCS16244

Instrument: CHEM24 Calibration Date: 11/27/24 Time: 09:45

Lab File Id: 1126_21.D Init. Calib. Date(s): 10/18/24 10/18/24

Heated Purge (Y/N): Y Init. Calib. Times: 15:10 22:33

GC Column: RTX-1 Method File: 24_AIR_1018.M

COMPOUND	RRF	RRF50	RRF MIN	%D	% D LIMITS
Propylene	1.047	1.154		-10.2	30
Dichlorodifluoromethane	2.586	2.561		1.0	30
Chloromethane	1.275	1.467		-15.1	30
1,2-Dichlorotetrafluoroethane	2.447	2.545		-4.0	30
Vinyl Chloride	1.111	1.199		-7.9	30
1,3-Butadiene	0.961	1.100		-14.5	30
Bromomethane	0.984	0.998		-1.4	30
Chloroethane	0.438	0.453		-3.4	30
Ethanol	0.581	0.712		-22.5	30
Acetone	1.976	2.292		-16.0	30
Trichlorofluoromethane	2.853	2.867		-0.5	30
Isopropylalcohol	2.456	2.779		-13.2	30
Acrylonitrile	0.989	1.033		-4.4	30
1,1-Dichloroethene	1.843	1.831		0.7	30
Methylene Chloride	1.667	1.922		-15.3	30
Carbon Disulfide	2.675	2.639		1.3	30
Trichlorotrifluoroethane	2.236	2.205		1.4	30
Trans-1,2-Dichloroethene	1.764	1.696		3.9	30
1,1-Dichloroethane	2.068	2.083		-0.7	30
Methyl tert-butyl ether(MTBE)	2.326	1.956		15.9	30
Methyl Ethyl Ketone	2.643	2.908		-10.0	30
Cis-1,2-Dichloroethene	1.660	1.577		5.0	30
Hexane	1.824	1.650		9.5	30
Chloroform	2.121	2.145		-1.1	30
Ethyl acetate	0.388	0.375		3.4	30
Tetrahydrofuran	1.251	1.221		2.4	30
1,2-Dichloroethane	1.553	1.674		-7.8	30
1,1,1-Trichloroethane	2.236	2.275		-1.7	30
Benzene	2.814	2.562		9.0	30
Carbon Tetrachloride	2.576	2.652		-3.0	30
Cyclohexane	1.107	1.004		9.3	30
1,2-dichloropropane	0.429	0.420		2.1	30
Bromodichloromethane	0.697	0.734		-5.3	30
Trichloroethene	0.502	0.497		1.0	30
2,2,4-trimethylpentane	1.797	1.802		-0.3	30

(*) Recommended RRF not met (+) %D exceeds criteria % (#) %D exceeds (maximum) criteria
%D: 20% of target compounds are allowed to be above criteria %, but must be less than the (maximum) %D
(#) Maximum %D not met.

7B
AIR CONTINUING CALIBRATION CHECK

Lab Name: Phoenix Environmental Labs Client: AMC-ENG

Lab Code: Phoenix Case No.: SAS No.: SDG No.: GCS16244

Instrument: CHEM24 Calibration Date: 11/27/24 Time: 09:45

Lab File Id: 1126_21.D Init. Calib. Date(s): 10/18/24 10/18/24

Heated Purge (Y/N): Y Init. Calib. Times: 15:10 22:33

GC Column: RTX-1 Method File: 24_AIR_1018.M

COMPOUND	RRF	RRF50	RRF MIN	%D	% D LIMITS
1,4-Dioxane	0.181	0.169		6.6	30
Heptane	0.716	0.752		-5.0	30
cis-1,3-Dichloropropene	0.519	0.478		7.9	30
4-Methyl-2-pentanone(MIBK)	0.917	1.009		-10.0	30
trans-1,3-Dichloropropene	0.423	0.373		11.8	30
1,1,2-Trichloroethane	0.414	0.410		1.0	30
Toluene	1.094	0.954		12.8	30
Dibromochloromethane	0.917	0.900		1.9	30
2-Hexanone(MBK)	0.787	0.779		1.0	30
1,2-Dibromoethane(EDB)	0.720	0.688		4.4	30
Tetrachloroethene	0.676	0.617		8.7	30
1,1,1,2-Tetrachloroethane	1.299	1.374		-5.8	30
Chlorobenzene	2.128	2.164		-1.7	30
Ethylbenzene	3.044	2.660		12.6	30
m,p-Xylene	2.287	1.728		24.4	30
Bromoform	1.951	1.960		-0.5	30
Styrene	1.751	1.428		18.4	30
1,1,2,2-Tetrachloroethane	1.855	1.858		-0.2	30
o-Xylene	2.440	2.259		7.4	30
Isopropylbenzene	3.612	3.539		2.0	30
4-Ethyltoluene	3.459	3.001		13.2	30
1,3,5-Trimethylbenzene	2.974	2.806		5.6	30
1,2,4-Trimethylbenzene	3.007	2.482		17.5	30
Benzyl chloride qfi	1.000	0.58		42.0 #	20
1,3-Dichlorobenzene	2.067	1.749		15.4	30
1,4-Dichlorobenzene	1.700	1.470		13.5	30
sec-Butylbenzene	4.478	4.152		7.3	30
4-Isopropyltoluene	4.192	3.760		10.3	30
1,2-Dichlorobenzene	1.961	1.613		17.7	30
n-Butylbenzene	2.927	2.320		20.7	30
1,2,4-Trichlorobenzene qfi	1.000	0.32		68.0 #	20
Naphthalene qfi	1.000	0.29		71.0 #	20
Hexachlorobutadiene	2.132	1.703		20.1	30
1,2-Dichlorotetrafluoroethane(sim)	2.534	2.449		3.4	30
Vinyl Chloride(sim)	1.180	1.234		-4.6	30

(*) Recommended RRF not met (+) %D exceeds criteria % (#) %D exceeds (maximum) criteria

%D: 20% of target compounds are allowed to be above criteria %, but must be less than the (maximum) %D

(#) Maximum %D not met.

7B
AIR CONTINUING CALIBRATION CHECK

Lab Name: Phoenix Environmental Labs Client: AMC-ENG

Lab Code: Phoenix Case No.: SAS No.: SDG No.: GCS16244

Instrument: CHEM24 Calibration Date: 11/27/24 Time: 09:45

Lab File Id: 1126_21.D Init. Calib. Date(s): 10/18/24 10/18/24

Heated Purge (Y/N): Y Init. Calib. Times: 15:10 22:33

GC Column: RTX-1 Method File: 24_AIR_1018.M

COMPOUND	RRF	RRF50	RRF MIN	%D	% D LIMITS
Bromomethane(sim)	1.059	0.960		9.3	30
Trichlorofluoromethane(sim)	2.932	2.929		0.1	30
1,2-Dichloroethane(sim)	1.590	1.611		-1.3	30
1,1,1-Trichloroethane(sim)	2.390	2.369		0.9	30
Benzene(sim)	3.031	2.465		18.7	30
Carbon Tetrachloride(sim)	2.578	2.619		-1.6	30
1,1-Dichloroethene(sim)	1.894	1.762		7.0	30
Trichlorotrifluoroethane(sim)	2.341	2.271		3.0	30
Trans-1,2-Dichloroethene(sim)	1.817	1.632		10.2	30
1,1-Dichloroethane(sim)	2.237	2.179		2.6	30
Cis-1,2-Dichloroethene(sim)	1.697	1.518		10.5	30
Chloroform(sim)	2.228	2.211		0.8	30
1,2-dichloropropane(sim)	0.455	0.447		1.8	30
Bromodichloromethane(sim)	0.716	0.734		-2.5	30
Trichloroethene(sim)	0.519	0.514		1.0	30
1,4-Dioxane(sim)	0.183	0.169		7.7	30
cis-1,3-Dichloropropene(sim)	0.549	0.518		5.6	30
1,1,2-Trichloroethane(sim)	0.426	0.410		3.8	30
Dibromochloromethane(sim)	0.904	0.929		-2.8	30
1,2-Dibromoethane(EDB)(sim)	0.728	0.688		5.5	30
Tetrachloroethene(sim)	0.722	0.654		9.4	30
Bromoform(sim)	1.912	1.965		-2.8	30
m,p-Xylene(sim)	2.785	2.159		22.5	30
1,1,2,2-Tetrachloroethane(sim)	1.990	1.971		1.0	30
Benzyl chloride(sim) qfi	1.000	0.92		8.0	20
1,3-Dichlorobenzene(sim)	1.819	2.018		-10.9	30
1,4-Dichlorobenzene(sim)	1.446	1.470		-1.7	30
sec-Butylbenzene(sim)	5.063	4.686		7.4	30
4-Isopropyltoluene(sim)	4.380	3.760		14.2	30
1,2-Dichlorobenzene(sim)	1.975	1.838		6.9	30
n-Butylbenzene(sim)	2.503	2.320		7.3	30
1,2,4-Trichlorobenzene(sim) qfi	1.000	0.53		47.0 #	20
Hexachlorobutadiene(sim)	2.108	1.723		18.3	30
% Bromofluorobenzene	1.294	1.309		-1.2	30

(*) Recommended RRF not met (+) %D exceeds criteria % (#) %D exceeds (maximum) criteria
%D: 20% of target compounds are allowed to be above criteria %, but must be less than the (maximum) %D
(#) Maximum %D not met.

Field Duplicate Calculation Section

Volatiles TO-15

Calculations for Field Duplicate Relative Percent Difference (RPD)

SDG No. GCS16244

S1= IA-3

S2= DUPLICATE

<u>Analyte</u>	<u>S1</u>	<u>S2</u>	<u>RPD (%)</u>
Acetone	9.84	9.79	1%
Carbon Tetrachloride	0.078	0.077	1%
Chloromethane	0.624	0.608	3%
Dichlorodifluoromethane	0.466	0.478	3%
Ethanol	27.1	30.1	10%
Isopropylalcohol	2.04	2.12	4%
m,p-Xylene	0.251	0.258	3%
Tetrachloroethene	0.391	ND	NC
Toluene	1.13	1.14	1%
Trichloroethene	0.146	ND	NC
Trichlorofluoromethane	0.216	0.216	0%

* RPD is above the allowable maximum (25%).

All results are in ppbv.

Bold numbers were values that are below the CRQL or above the high standard.

ND - Not detected.

NC - Not calculated, both results must be within the linear range for valid RPDs to be calculated.



Appendix D: NYSDOH Soil Vapor/Indoor Air Matrices A-F

Soil Vapor / Indoor Air Matrix A

May 2017

Analytes Assigned:

Trichloroethene (TCE), *cis*-1,2-Dichloroethene (*c*-1,2-DCE), 1,1-Dichloroethene (1,1-DCE), Carbon Tetrachloride

SUB-SLAB VAPOR CONCENTRATION of COMPOUND (mcg / m ³)	INDOOR AIR CONCENTRATION of COMPOUND (mcg / m ³)		
	< 0.2	0.2 to < 1	1 and above
< 6	1. No further action	2. No Further Action	3. IDENTIFY SOURCE(S) and RESAMPLE or MITIGATE
6 to < 60	4. No further action	5. MONITOR	6. MITIGATE
60 and above	7. MITIGATE	8. MITIGATE	9. MITIGATE

mcg / m³ = micrograms per cubic meter

No further action: No additional actions are recommended to address human exposures.

Identify Source(s) and Resample or Mitigate: We recommend that reasonable and practical actions be taken to identify the source(s) affecting the indoor air quality and that actions be implemented to reduce indoor air concentrations to within background ranges. For example, if an indoor or outdoor air source is identified, we recommend the appropriate party implement actions to reduce the levels. In the event that indoor or outdoor sources are not readily identified or confirmed, resampling (which might include additional sub-slab vapor and indoor air sampling locations) is recommended to demonstrate that SVI mitigation actions are not needed. Based on the information available, mitigation might also be recommended when soil vapor intrusion cannot be ruled out.

Monitor: We recommend monitoring (sampling on a recurring basis), including but not necessarily limited to sub-slab vapor, basement air and outdoor air sampling, to determine whether concentrations in the indoor air or sub-slab vapor have changed and/or to evaluate temporal influences. Monitoring might also be recommended to determine whether existing building conditions (e.g., positive pressure heating, ventilation and air-conditioning systems) are maintaining the desired mitigation endpoint and to determine whether changes are needed. The type and frequency of monitoring is determined based on site-, building- and analyte-specific information, taking into account applicable environmental data and building operating conditions. Monitoring is an interim measure required to evaluate exposures related to soil vapor intrusion until contaminated environmental media are remediated.

Mitigate: We recommend mitigation to minimize current or potential exposures associated with soil vapor intrusion. The most common mitigation methods are sealing preferential pathways in conjunction with installing a sub-slab depressurization system and changing the pressurization of the building in conjunction with monitoring. The type, or combination of types, of mitigation is determined on a building-specific basis, taking into account building construction and operating conditions. Mitigation is considered a temporary measure implemented to address exposures related to soil vapor intrusion until contaminated environmental media are remediated.

These general recommendations are made with consideration being given to the additional notes on page 2.

ADDITIONAL NOTES FOR MATRIX A

This matrix summarizes actions recommended to address current and potential exposures related to soil vapor intrusion. To use the matrix appropriately as a tool in the decision-making process, the following should be noted:

- [1] The matrix is generic. As such, it may be appropriate to modify a recommended action to accommodate analyte-specific, building-specific conditions (e.g., dirt floor in basement, crawl spaces, thick slabs, current occupancy, etc.), and/or factors provided in Section 3.2 of the guidance (e.g., current land use, environmental conditions, etc.). For example, collection of additional samples may be recommended when the matrix indicates "no further action" for a particular building, but the results of adjacent buildings (especially sub-slab vapor results) indicate a need to take actions to address exposures related to soil vapor intrusion. Mitigation might be recommended when the results of multiple contaminants indicate monitoring is recommended. Proactive actions may be proposed at any time. For example, the party implementing the actions may decide to install sub-slab depressurization systems on buildings where the matrix indicates "no further action" or "monitoring." Such an action might be undertaken for reasons other than public health (e.g., seeking community acceptance, reducing costs, etc.). However, actions implemented *in lieu* of sampling will typically be expected to be captured in the final engineering report and site management plan, and might not rule out the need for post-implementation sampling (e.g., to document effectiveness or to support terminating the action).
- [2] Actions provided in the matrix are specific to addressing human exposures. Implementation of these actions does not preclude investigating possible sources of soil vapor contamination, nor does it preclude remediating contaminated soil vapor or the source of soil vapor contamination.
- [3] Appropriate care should be taken during all aspects of sample collection to ensure that high quality data are obtained. Since the data are being used in the decision-making process, the laboratory analyzing the environmental samples must have current Environmental Laboratory Approval Program (ELAP) certification for the appropriate analyte and environmental matrix combinations. Furthermore, samples should be analyzed by methods that can achieve a minimum reporting limit of 0.20 microgram per cubic meter for indoor and outdoor air samples. For sub-slab vapor samples and dirt floor soil vapor samples, a minimum reporting limit of 1 microgram per cubic meter is recommended.
- [4] Sub-slab vapor and indoor air samples are typically collected when the likelihood of soil vapor intrusion is considered to be the greatest (i.e., worst-case conditions). If samples are collected at other times (typically, samples collected outside of the heating season), then resampling during worst-case conditions might be appropriate to verify that actions taken to address exposures related to soil vapor intrusion are protective of human health.
- [5] When current exposures are attributed to sources other than soil vapor intrusion, the agencies should be given documentation (e.g., applicable environmental data, completed indoor air sampling questionnaire, digital photographs, etc.) to support a proposed action other than that provided in the matrix box and to support agency assessment and follow-up.
- [6] The party responsible for implementing the recommended actions will differ depending upon several factors, including but not limited to the following: the identified source of the volatile chemicals, the environmental remediation program, and analyte-specific, site-specific and building-specific factors.

Soil Vapor / Indoor Air Matrix B

May 2017

Analytes Assigned:

Tetrachloroethene (PCE), 1,1,1-Trichloroethane (1,1,1-TCA), Methylene Chloride

SUB-SLAB VAPOR CONCENTRATION of COMPOUND (mcg / m ³)	INDOOR AIR CONCENTRATION of COMPOUND (mcg / m ³)		
	< 3	3 to < 10	10 and above
< 100	1. No further action	2. No Further Action	3. IDENTIFY SOURCE(S) and RESAMPLE or MITIGATE
100 to < 1,000	4. No further action	5. MONITOR	6. MITIGATE
1,000 and above	7. MITIGATE	8. MITIGATE	9. MITIGATE

mcg / m³ = micrograms per cubic meter

No further action: No additional actions are recommended to address human exposures.

Identify Source(s) and Resample or Mitigate: We recommend that reasonable and practical actions be taken to identify the source(s) affecting the indoor air quality and that actions be implemented to reduce indoor air concentrations to within background ranges. For example, if an indoor or outdoor air source is identified, we recommend the appropriate party implement actions to reduce the levels. In the event that indoor or outdoor sources are not readily identified or confirmed, resampling (which might include additional sub-slab vapor and indoor air sampling locations) is recommended to demonstrate that SVI mitigation actions are not needed. Based on the information available, mitigation might also be recommended when soil vapor intrusion cannot be ruled out.

Monitor: We recommend monitoring (sampling on a recurring basis), including but not necessarily limited to sub-slab vapor, basement air and outdoor air sampling, to determine whether concentrations in the indoor air or sub-slab vapor have changed and/or to evaluate temporal influences. Monitoring might also be recommended to determine whether existing building conditions (e.g., positive pressure heating, ventilation and air-conditioning systems) are maintaining the desired mitigation endpoint and to determine whether changes are needed. The type and frequency of monitoring is determined based on site-, building- and analyte-specific information, taking into account applicable environmental data and building operating conditions. Monitoring is an interim measure required to evaluate exposures related to soil vapor intrusion until contaminated environmental media are remediated.

Mitigate: We recommend mitigation to minimize current or potential exposures associated with soil vapor intrusion. The most common mitigation methods are sealing preferential pathways in conjunction with installing a sub-slab depressurization system and changing the pressurization of the building in conjunction with monitoring. The type, or combination of types, of mitigation is determined on a building-specific basis, taking into account building construction and operating conditions. Mitigation is considered a temporary measure implemented to address exposures related to soil vapor intrusion until contaminated environmental media are remediated.

These general recommendations are made with consideration being given to the additional notes on page 2.

ADDITIONAL NOTES FOR MATRIX B

This matrix summarizes actions recommended to address current and potential exposures related to soil vapor intrusion. To use the matrix appropriately as a tool in the decision-making process, the following should be noted:

- [1] The matrix is generic. As such, it may be appropriate to modify a recommended action to accommodate analyte-specific, building-specific conditions (e.g., dirt floor in basement, crawl spaces, thick slabs, current occupancy, etc.), and/or factors provided in Section 3.2 of the guidance (e.g., current land use, environmental conditions, etc.). For example, collection of additional samples may be recommended when the matrix indicates "no further action" for a particular building, but the results of adjacent buildings (especially sub-slab vapor results) indicate a need to take actions to address exposures related to soil vapor intrusion. Mitigation might be recommended when the results of multiple contaminants indicate monitoring is recommended. Proactive actions may be proposed at any time. For example, the party implementing the actions may decide to install sub-slab depressurization systems on buildings where the matrix indicates "no further action" or "monitoring." Such an action might be undertaken for reasons other than public health (e.g., seeking community acceptance, reducing costs, etc.). However, actions implemented *in lieu* of sampling will typically be expected to be captured in the final engineering report and site management plan, and might not rule out the need for post-implementation sampling (e.g., to document effectiveness or to support terminating the action).
- [2] Actions provided in the matrix are specific to addressing human exposures. Implementation of these actions does not preclude investigating possible sources of soil vapor contamination, nor does it preclude remediating contaminated soil vapor or the source of soil vapor contamination.
- [3] Appropriate care should be taken during all aspects of sample collection to ensure that high quality data are obtained. Since the data are being used in the decision-making process, the laboratory analyzing the environmental samples must have current Environmental Laboratory Approval Program (ELAP) certification for the appropriate analyte and environmental matrix combinations. Furthermore, samples should be analyzed by methods that can achieve a minimum reporting limit of 1 microgram per cubic meter for indoor and outdoor air samples. For sub-slab vapor samples and dirt floor soil vapor samples, a minimum reporting limit of 1 microgram per cubic meter is recommended.
- [4] Sub-slab vapor and indoor air samples are typically collected when the likelihood of soil vapor intrusion to occur is considered to be the greatest (i.e., worst-case conditions). If samples are collected at other times (typically, samples collected outside of the heating season), then resampling during worst-case conditions might be appropriate to verify that actions taken to address exposures related to soil vapor intrusion are protective of human health.
- [5] When current exposures are attributed to sources other than soil vapor intrusion, the agencies should be given documentation (e.g., applicable environmental data, completed indoor air sampling questionnaire, digital photographs, etc.) to support a proposed action other than that provided in the matrix box and to support agency assessment and follow-up.
- [6] The party responsible for implementing the recommended actions will differ depending upon several factors, including but not limited to the following: the identified source of the volatile chemicals, the environmental remediation program, and analyte-specific, site-specific and building-specific factors.

Soil Vapor / Indoor Air Matrix C

May 2017

Analytes Assigned:

Vinyl Chloride

SUB-SLAB VAPOR CONCENTRATION of COMPOUND (mcg / m ³)	INDOOR AIR CONCENTRATION of COMPOUND (mcg / m ³)	
	< 0.2	0.2 and above
< 6	1. No further action	3. IDENTIFY SOURCE(S) and RESAMPLE or MITIGATE
6 to < 60	4. MONITOR	6. MITIGATE
60 and above	7. MITIGATE	9. MITIGATE

mcg / m³ = micrograms per cubic meter

No further action: No additional actions are recommended to address human exposures.

Identify Source(s) and Resample or Mitigate: We recommend that reasonable and practical actions be taken to identify the source(s) affecting the indoor air quality and that actions be implemented to reduce indoor air concentrations to within background ranges. For example, if an indoor or outdoor air source is identified, we recommend the appropriate party implement actions to reduce the levels. In the event that indoor or outdoor sources are not readily identified or confirmed, resampling (which might include additional sub-slab vapor and indoor air sampling locations) is recommended to demonstrate that SVI mitigation actions are not needed. Based on the information available, mitigation might also be recommended when soil vapor intrusion cannot be ruled out.

Monitor: We recommend monitoring (sampling on a recurring basis), including but not necessarily limited to sub-slab vapor, basement air and outdoor air sampling, to determine whether concentrations in the indoor air or sub-slab vapor have changed and/or to evaluate temporal influences. Monitoring might also be recommended to determine whether existing building conditions (e.g., positive pressure heating, ventilation and air-conditioning systems) are maintaining the desired mitigation endpoint and to determine whether changes are needed. The type and frequency of monitoring is determined based on site-, building- and analyte-specific information, taking into account applicable environmental data and building operating conditions. Monitoring is an interim measure required to evaluate exposures related to soil vapor intrusion until contaminated environmental media are remediated.

Mitigate: We recommend mitigation to minimize current or potential exposures associated with soil vapor intrusion. The most common mitigation methods are sealing preferential pathways in conjunction with installing a sub-slab depressurization system and changing the pressurization of the building in conjunction with monitoring. The type, or combination of types, of mitigation is determined on a building-specific basis, taking into account building construction and operating conditions. Mitigation is considered a temporary measure implemented to address exposures related to soil vapor intrusion until contaminated environmental media are remediated.

These general recommendations are made with consideration being given to the additional notes on page 2.

ADDITIONAL NOTES FOR MATRIX C

This matrix summarizes actions recommended to address current and potential exposures related to soil vapor intrusion. To use the matrix appropriately as a tool in the decision-making process, the following should be noted:

- [1] The matrix is generic. As such, it may be appropriate to modify a recommended action to accommodate analyte-specific, building-specific conditions (e.g., dirt floor in basement, crawl spaces, thick slabs, current occupancy, etc.), and/or factors provided in Section 3.2 of the guidance (e.g., current land use, environmental conditions, etc.). For example, collection of additional samples may be recommended when the matrix indicates "no further action" for a particular building, but the results of adjacent buildings (especially sub-slab vapor results) indicate a need to take actions to address exposures related to soil vapor intrusion. Mitigation might be recommended when the results of multiple contaminants indicate monitoring is recommended. Proactive actions may be proposed at any time. For example, the party implementing the actions may decide to install sub-slab depressurization systems on buildings where the matrix indicates "no further action" or "monitoring." Such an action might be undertaken for reasons other than public health (e.g., seeking community acceptance, reducing costs, etc.). However, actions implemented *in lieu* of sampling will typically be expected to be captured in the final engineering report and site management plan, and might not rule out the need for post-implementation sampling (e.g., to document effectiveness or to support terminating the action).
- [2] Actions provided in the matrix are specific to addressing human exposures. Implementation of these actions does not preclude investigating possible sources of soil vapor contamination, nor does it preclude remediating contaminated soil vapor or the source of soil vapor contamination.
- [3] Appropriate care should be taken during all aspects of sample collection to ensure that high quality data are obtained. Since the data are being used in the decision-making process, the laboratory analyzing the environmental samples must have current Environmental Laboratory Approval Program (ELAP) certification for the appropriate analyte and environmental matrix combinations. Furthermore, samples should be analyzed by methods that can achieve a minimum reporting limit of 0.20 microgram per cubic meter for indoor and outdoor air samples. For sub-slab vapor samples and dirt floor soil vapor samples, a minimum reporting limit of 1 microgram per cubic meter is recommended.
- [4] Sub-slab vapor and indoor air samples are typically collected when the likelihood of soil vapor intrusion is considered to be the greatest (i.e., worst-case conditions). If samples are collected at other times (typically, samples collected outside of the heating season), then resampling during worst-case conditions might be appropriate to verify that actions taken to address exposures related to soil vapor intrusion are protective of human health.
- [5] When current exposures are attributed to sources other than soil vapor intrusion, the agencies should be given documentation (e.g., applicable environmental data, completed indoor air sampling questionnaire, digital photographs, etc.) to support a proposed action other than that provided in the matrix box and to support agency assessment and follow-up.
- [6] The party responsible for implementing the recommended actions will differ depending upon several factors, including but not limited to the following: the identified source of the volatile chemicals, the environmental remediation program, and analyte-specific, site-specific and building-specific factors.

Soil Vapor / Indoor Air Matrix D

February 2024

Analytes Assigned:

Benzene, ethylbenzene, naphthalene, cyclohexane, isooctane (2,2,4-trimethylpentane), 1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene, o-xylene

SUB-SLAB VAPOR CONCENTRATION of COMPOUND (mcg / m ³)	INDOOR AIR CONCENTRATION of COMPOUND (mcg / m ³)		
	< 2	2 to < 10	10 and above
< 60	1. No further action	2. No Further Action	3. IDENTIFY SOURCE(S) or RESAMPLE or MITIGATE
60 to < 600	4. No further action	5. MONITOR	6. MITIGATE
600 and above	7. MITIGATE	8. MITIGATE	9. MITIGATE

mcg / m³ = micrograms per cubic meter

No further action: No additional actions are recommended to address human exposures.

Identify Source(s) or Resample or Mitigate: We recommend that reasonable and practical actions be taken to identify the source(s) affecting the indoor air quality and that actions be implemented to reduce indoor air concentrations to within background ranges. For example, if an indoor or outdoor air source is identified, we recommend the appropriate party implement actions to reduce the levels. In the event that indoor or outdoor sources are not readily identified or confirmed, resampling (which might include additional sub-slab vapor and indoor air sampling locations) is recommended to demonstrate that SVI mitigation actions are not needed. Based on the information available, mitigation might also be recommended when soil vapor intrusion cannot be ruled out.

Monitor: We recommend monitoring (sampling on a recurring basis), including but not necessarily limited to sub-slab vapor, basement air and outdoor air sampling, to determine whether concentrations in the indoor air or sub-slab vapor have changed and/or to evaluate temporal influences. Monitoring might also be recommended to determine whether existing building conditions (e.g., positive pressure heating, ventilation, and air-conditioning systems) are maintaining the desired mitigation endpoint and to determine whether changes are needed. The type and frequency of monitoring is determined based on site-, building- and analyte-specific information, taking into account applicable environmental data and building operating conditions. Monitoring is an interim measure required to evaluate exposures related to soil vapor intrusion until contaminated environmental media are remediated.

Mitigate: We recommend mitigation to minimize current or potential exposures associated with soil vapor intrusion. The most common mitigation methods are sealing preferential pathways in conjunction with installing a sub-slab depressurization system and changing the pressurization of the building in conjunction with monitoring. The type, or combination of types, of mitigation is determined on a building -specific basis, taking into account building construction and operating conditions. Mitigation is considered a temporary measure implemented to address exposures related to soil vapor intrusion until contaminated environmental media are remediated.

These general recommendations are made with consideration being given to the additional notes on page 2.

MATRIX D Page 1 of 2

ADDITIONAL NOTES FOR MATRIX D

This matrix summarizes actions recommended to address current and potential exposures related to soil vapor intrusion. To use the matrix appropriately as a tool in the decision-making process, the following should be noted:

- [1] The matrix is generic. As such, it may be appropriate to modify a recommended action to accommodate analyte-specific, building-specific conditions (e.g., dirt floor in basement, crawl spaces, thick slabs, current occupancy, etc.), and/or factors provided in Section 3.2 of the guidance (e.g., current land use, environmental conditions, etc.). For example, collection of additional samples may be recommended when the matrix indicates "no further action" for a particular building, but the results of adjacent buildings (especially sub-slab vapor results) indicate a need to take actions to address exposures related to soil vapor intrusion. Mitigation might be recommended when the results of multiple contaminants indicate monitoring is recommended. Proactive actions may be proposed at any time. For example, the party implementing the actions may decide to install sub-slab depressurization systems on buildings where the matrix indicates "no further action" or "monitoring." Such an action might be undertaken for reasons other than public health (e.g., seeking community acceptance, reducing costs, etc.). However, actions implemented *in lieu* of sampling will typically be expected to be captured in the final engineering report and site management plan, and might not rule out the need for post-implementation sampling (e.g., to document effectiveness or to support terminating the action).
- [2] Actions provided in the matrix are specific to addressing human exposures. Implementation of these actions does not preclude investigating possible sources of soil vapor contamination, nor does it preclude remediating contaminated soil vapor or the source of soil vapor contamination.
- [3] Appropriate care should be taken during all aspects of sample collection to ensure that high quality data are obtained. Since the data are being used in the decision-making process, the laboratory analyzing the environmental samples must have current Environmental Laboratory Approval Program (ELAP) certification for the appropriate analyte and environmental matrix combinations. Furthermore, samples should be analyzed by methods that can achieve a minimum reporting limit of 1 microgram per cubic meter for indoor and outdoor air samples. For sub-slab vapor samples and dirt floor soil vapor samples, a minimum reporting limit of 1 microgram per cubic meter is recommended.
- [4] Sub-slab vapor and indoor air samples are typically collected when the likelihood of soil vapor intrusion to occur is considered to be the greatest (i.e., worst-case conditions). If samples are collected at other times (typically, samples collected outside of the heating season), then resampling during worst-case conditions might be appropriate to verify that actions taken to address exposures related to soil vapor intrusion are protective of human health.
- [5] When current exposures are attributed to sources other than soil vapor intrusion, the agencies should be given documentation (e.g., applicable environmental data, completed indoor air sampling questionnaire, digital photographs, etc.) to support a proposed action other than that provided in the matrix box and to support agency assessment and follow-up.
- [6] The party responsible for implementing the recommended actions will differ depending upon several factors, including but not limited to the following: the identified source of the volatile chemicals, the environmental remediation program, and analyte-specific, site-specific and building-specific factors.

Soil Vapor / Indoor Air Matrix E

February 2024

Analytes Assigned:

m,p-xylene, heptane, hexane

SUB-SLAB VAPOR CONCENTRATION of COMPOUND (mcg / m ³)	INDOOR AIR CONCENTRATION of COMPOUND (mcg / m ³)		
	< 6	6 to < 20	20 and above
< 200	1. No further action	2. No Further Action	3. IDENTIFY SOURCE(S) or RESAMPLE or MITIGATE
200 to < 2,000	4. No further action	5. MONITOR	6. MITIGATE
2,000 and above	7. MITIGATE	8. MITIGATE	9. MITIGATE

mcg / m³ = micrograms per cubic meter

No further action: No additional actions are recommended to address human exposures.

Identify Source(s) or Resample or Mitigate: We recommend that reasonable and practical actions be taken to identify the source(s) affecting the indoor air quality and that actions be implemented to reduce indoor air concentrations to within background ranges. For example, if an indoor or outdoor air source is identified, we recommend the appropriate party implement actions to reduce the levels. In the event that indoor or outdoor sources are not readily identified or confirmed, resampling (which might include additional sub-slab vapor and indoor air sampling locations) is recommended to demonstrate that SVI mitigation actions are not needed. Based on the information available, mitigation might also be recommended when soil vapor intrusion cannot be ruled out.

Monitor: We recommend monitoring (sampling on a recurring basis), including but not necessarily limited to sub-slab vapor, basement air and outdoor air sampling, to determine whether concentrations in the indoor air or sub-slab vapor have changed and/or to evaluate temporal influences. Monitoring might also be recommended to determine whether existing building conditions (e.g., positive pressure heating, ventilation, and air-conditioning systems) are maintaining the desired mitigation endpoint and to determine whether changes are needed. The type and frequency of monitoring is determined based on site-, building- and analyte-specific information, taking into account applicable environmental data and building operating conditions. Monitoring is an interim measure required to evaluate exposures related to soil vapor intrusion until contaminated environmental media are remediated.

Mitigate: We recommend mitigation to minimize current or potential exposures associated with soil vapor intrusion. The most common mitigation methods are sealing preferential pathways in conjunction with installing a sub-slab depressurization system and changing the pressurization of the building in conjunction with monitoring. The type, or combination of types, of mitigation is determined on a building -specific basis, taking into account building construction and operating conditions. Mitigation is considered a temporary measure implemented to address exposures related to soil vapor intrusion until contaminated environmental media are remediated.

These general recommendations are made with consideration being given to the additional notes on page 2.

MATRIX E Page 1 of 2

ADDITIONAL NOTES FOR MATRIX E

This matrix summarizes actions recommended to address current and potential exposures related to soil vapor intrusion. To use the matrix appropriately as a tool in the decision-making process, the following should be noted:

- [1] The matrix is generic. As such, it may be appropriate to modify a recommended action to accommodate analyte-specific, building-specific conditions (e.g., dirt floor in basement, crawl spaces, thick slabs, current occupancy, etc.), and/or factors provided in Section 3.2 of the guidance (e.g., current land use, environmental conditions, etc.). For example, collection of additional samples may be recommended when the matrix indicates "no further action" for a particular building, but the results of adjacent buildings (especially sub-slab vapor results) indicate a need to take actions to address exposures related to soil vapor intrusion. Mitigation might be recommended when the results of multiple contaminants indicate monitoring is recommended. Proactive actions may be proposed at any time. For example, the party implementing the actions may decide to install sub-slab depressurization systems on buildings where the matrix indicates "no further action" or "monitoring." Such an action might be undertaken for reasons other than public health (e.g., seeking community acceptance, reducing costs, etc.). However, actions implemented *in lieu* of sampling will typically be expected to be captured in the final engineering report and site management plan, and might not rule out the need for post-implementation sampling (e.g., to document effectiveness or to support terminating the action).
- [2] Actions provided in the matrix are specific to addressing human exposures. Implementation of these actions does not preclude investigating possible sources of soil vapor contamination, nor does it preclude remediating contaminated soil vapor or the source of soil vapor contamination.
- [3] Appropriate care should be taken during all aspects of sample collection to ensure that high quality data are obtained. Since the data are being used in the decision-making process, the laboratory analyzing the environmental samples must have current Environmental Laboratory Approval Program (ELAP) certification for the appropriate analyte and environmental matrix combinations. Furthermore, samples should be analyzed by methods that can achieve a minimum reporting limit of 1 microgram per cubic meter for indoor and outdoor air samples. For sub-slab vapor samples and dirt floor soil vapor samples, a minimum reporting limit of 1 microgram per cubic meter is recommended.
- [4] Sub-slab vapor and indoor air samples are typically collected when the likelihood of soil vapor intrusion to occur is considered to be the greatest (i.e., worst-case conditions). If samples are collected at other times (typically, samples collected outside of the heating season), then resampling during worst-case conditions might be appropriate to verify that actions taken to address exposures related to soil vapor intrusion are protective of human health.
- [5] When current exposures are attributed to sources other than soil vapor intrusion, the agencies should be given documentation (e.g., applicable environmental data, completed indoor air sampling questionnaire, digital photographs, etc.) to support a proposed action other than that provided in the matrix box and to support agency assessment and follow-up.
- [6] The party responsible for implementing the recommended actions will differ depending upon several factors, including but not limited to the following: the identified source of the volatile chemicals, the environmental remediation program, and analyte-specific, site-specific and building-specific factors.

Soil Vapor / Indoor Air Matrix F

February 2024

Analytes Assigned:

Toluene

SUB-SLAB VAPOR CONCENTRATION of COMPOUND (mcg / m ³)	INDOOR AIR CONCENTRATION of COMPOUND (mcg / m ³)		
	< 10	10 to < 50	50 and above
< 300	1. No Further Action	2. No Further Action	3. IDENTIFY SOURCE(S) or RESAMPLE or MITIGATE
300 to < 3,000	4. No Further Action	5. MONITOR	6. MITIGATE
3,000 and above	7. MITIGATE	8. MITIGATE	9. MITIGATE

mcg / m³ = micrograms per cubic meter

No further action: No additional actions are recommended to address human exposures.

Identify Source(s) or Resample or Mitigate: We recommend that reasonable and practical actions be taken to identify the source(s) affecting the indoor air quality and that actions be implemented to reduce indoor air concentrations to within background ranges. For example, if an indoor or outdoor air source is identified, we recommend the appropriate party implement actions to reduce the levels. In the event that indoor or outdoor sources are not readily identified or confirmed, resampling (which might include additional sub-slab vapor and indoor air sampling locations) is recommended to demonstrate that SVI mitigation actions are not needed. Based on the information available, mitigation might also be recommended when soil vapor intrusion cannot be ruled out.

Monitor: We recommend monitoring (sampling on a recurring basis), including but not necessarily limited to sub-slab vapor, basement air and outdoor air sampling, to determine whether concentrations in the indoor air or sub-slab vapor have changed and/or to evaluate temporal influences. Monitoring might also be recommended to determine whether existing building conditions (e.g., positive pressure heating, ventilation, and air-conditioning systems) are maintaining the desired mitigation endpoint and to determine whether changes are needed. The type and frequency of monitoring is determined based on site-, building- and analyte-specific information, taking into account applicable environmental data and building operating conditions. Monitoring is an interim measure required to evaluate exposures related to soil vapor intrusion until contaminated environmental media are remediated.

Mitigate: We recommend mitigation to minimize current or potential exposures associated with soil vapor intrusion. The most common mitigation methods are sealing preferential pathways in conjunction with installing a sub-slab depressurization system and changing the pressurization of the building in conjunction with monitoring. The type, or combination of types, of mitigation is determined on a building -specific basis, taking into account building construction and operating conditions. Mitigation is considered a temporary measure implemented to address exposures related to soil vapor intrusion until contaminated environmental media are remediated.

These general recommendations are made with consideration being given to the additional notes on page 2.

MATRIX F Page 1 of 2

ADDITIONAL NOTES FOR MATRIX F

This matrix summarizes actions recommended to address current and potential exposures related to soil vapor intrusion. To use the matrix appropriately as a tool in the decision-making process, the following should be noted:

- [1] The matrix is generic. As such, it may be appropriate to modify a recommended action to accommodate analyte-specific, building-specific conditions (e.g., dirt floor in basement, crawl spaces, thick slabs, current occupancy, etc.), and/or factors provided in Section 3.2 of the guidance (e.g., current land use, environmental conditions, etc.). For example, collection of additional samples may be recommended when the matrix indicates "no further action" for a particular building, but the results of adjacent buildings (especially sub-slab vapor results) indicate a need to take actions to address exposures related to soil vapor intrusion. Mitigation might be recommended when the results of multiple contaminants indicate monitoring is recommended. Proactive actions may be proposed at any time. For example, the party implementing the actions may decide to install sub-slab depressurization systems on buildings where the matrix indicates "no further action" or "monitoring." Such an action might be undertaken for reasons other than public health (e.g., seeking community acceptance, reducing costs, etc.). However, actions implemented *in lieu* of sampling will typically be expected to be captured in the final engineering report and site management plan, and might not rule out the need for post-implementation sampling (e.g., to document effectiveness or to support terminating the action).
- [2] Actions provided in the matrix are specific to addressing human exposures. Implementation of these actions does not preclude investigating possible sources of soil vapor contamination, nor does it preclude remediating contaminated soil vapor or the source of soil vapor contamination.
- [3] Appropriate care should be taken during all aspects of sample collection to ensure that high quality data are obtained. Since the data are being used in the decision-making process, the laboratory analyzing the environmental samples must have current Environmental Laboratory Approval Program (ELAP) certification for the appropriate analyte and environmental matrix combinations. Furthermore, samples should be analyzed by methods that can achieve a minimum reporting limit of 1 microgram per cubic meter for indoor and outdoor air samples. For sub-slab vapor samples and dirt floor soil vapor samples, a minimum reporting limit of 1 microgram per cubic meter is recommended.
- [4] Sub-slab vapor and indoor air samples are typically collected when the likelihood of soil vapor intrusion to occur is considered to be the greatest (i.e., worst-case conditions). If samples are collected at other times (typically, samples collected outside of the heating season), then resampling during worst-case conditions might be appropriate to verify that actions taken to address exposures related to soil vapor intrusion are protective of human health.
- [5] When current exposures are attributed to sources other than soil vapor intrusion, the agencies should be given documentation (e.g., applicable environmental data, completed indoor air sampling questionnaire, digital photographs, etc.) to support a proposed action other than that provided in the matrix box and to support agency assessment and follow-up.
- [6] The party responsible for implementing the recommended actions will differ depending upon several factors, including but not limited to the following: the identified source of the volatile chemicals, the environmental remediation program, and analyte-specific, site-specific and building-specific factors.