Building 700 (Formerly 330D)
Star Group (aka Meehan Oil) Call Center
Additional Indoor Air Quality Testing
Summary Report

at

iPark 84
Former IBM East Fishkill Facility

February 2021
(Updated September 2021 to Include
Data Usability Summary Report)

Prepared for:

Jessica LaClair
New York State Dept. of Environmental Conservation
Dept. of Environmental Remediation
625 Broadway
Albany, New York 12233-7013

WALDEN ENVIRONMENTAL ENGINEERING, PLLC
Industry Leader in Environmental Engineering Consulting
PROACTIVE SOLUTIONS SINCE 1995

WALDEN ENVIRONMENTAL ENGINEERING

Sent via email to jess.laclair@dec.ny.gov

February 3, 2021
iPARK0118.38

Ms. Jessica LaClair
Environmental Engineer
Division of Environmental Remediation
New York State Department of Environmental Conservation
625 Broadway
Albany, NY 12233-7013

Re: iPark 84, Former IBM East Fishkill Facility
Building 700 (formerly Building 330D)
Star Group (AKA Meehan Oil) Call Center
Additional Indoor Air Quality Testing Summary Report

Dear Ms. LaClair:

Walden Environmental Engineering, PLLC (Walden) performed pre-occupancy indoor air quality (IAQ) sampling in the Star Group Call Center space on the second floor of Building 700 (formerly Building 330D) on July 7, 2020. The results of the pre-occupancy sampling were presented in the *IAQ Testing Summary Report* dated September 8, 2020 (copy included at the end of this submittal as **Appendix A**). Based on the State's review of the *IAQ Testing Summary Report*, NYSDEC issued a letter dated October 1, 2020 approving tenant occupancy of the Star Group Call Center space; a copy of this letter is presented in **Attachment 1**. The October 1 letter also included a request from NYSDEC/ NYSDOH to collect additional IAQ samples during the heating season in the Conference Room area, based on the low concentrations of TCE and PCE detected in the July 7 indoor air sample from this location. Walden performed this additional sampling on behalf of iPark East Fishkill LLC (iPark) on December 8, 2020; the results of this additional IAQ testing are summarized below.

Building 700 (330D) is owned by iPark; the Star Group is leasing second floor space in the northwestern portion of the building, immediately above the space currently occupied by the Crepini food processing and packaging operation. Refer to **Figure 1** for the site location map. Walden completed the additional IAQ testing in the Call Center Conference Room (Location IA-3 shown on **Figure 2**) on December 8, 2020 in accordance with prescribed protocols previously approved by NYSDEC: the *RCRA Facility Investigation (RFI) VOC Source Assessment Work*

Plan (RFI Work Plan) dated June 15, 2009, prepared by Sanborn, Head Engineering, PC and Walden's IAQ Testing Plan letter (Testing Plan) dated June 11, 2020 which was approved by NYSDEC on June 30, 2020.

Summary of HVAC Conditions Within the Building

The Call Center space in Building 700 (330D) is served by the existing HVAC system which was operating under normal conditions during the December 8, 2020 additional IAQ sampling. With the exception of incidental cleaning and sanitizing agents, no chemicals are stored within the Call Center space. A copy of the Indoor Air Quality Questionnaire and Building Inventory completed during the additional IAQ sampling event is presented in **Attachment 2**.

Summary of IAQ Testing

IAQ testing was conducted in accordance with the procedures outlined in the NYSDEC-approved RFI Work Plan and Testing Plan. The additional sample was collected using a 6-liter, individually certified clean, stainless-steel Summa® canister. The Summa® canister was calibrated by the laboratory with flow controllers to obtain an 8-hour time-averaged sample. The indoor air sample was collected from a height of approximately 2.5 feet above the floor in the Conference Room Area (Location IA-3 as depicted on **Figure 2)** as directed in NYSDEC's October 1, 2020 letter. Note that this sample ID is consistent with the ID used to identify the July 7, 2020 sampling location in this area, and the Summa® canister for the December 8, 2020 event was placed near the original sampling location.

The VOC concentration at the sample location was measured using a PID immediately before sample collection began to evaluate whether VOCs were present in the Call Center space and had the potential to impact the IAQ results. The PID reading at Location IA-3 was 0.1 ppm, indicating no apparent air quality impacts. The presence of cleaning products was noted in the space.

The IAQ sample was transferred to Phoenix Labs of Manchester, CT, a NYSDOH ELAP certified laboratory (NYSDOH ELAP #11301) under chain of custody for analysis of volatile organic compound (VOC) analytes via modified Method TO-15 as specified in the June 2009 *RFI Work Plan.* A summary of field sampling information is provided in **Table 1**. The IAQ laboratory analytical data is presented in **Table 2**. The sampling photo is provided in **Attachment 3**. The full laboratory analytical report is provided in **Attachment 4**. A Data Usability Summary Report (DUSR) is being prepared and will be submitted under separate cover.

Results and Discussion

The Call Center IAQ analytical data for the Conference Room sample were compared to the typical indoor air background concentrations published in USEPA's 2001 Building Assessment and Survey Evaluation (BASE) database. When developing BASE, USEPA collected indoor air samples at randomly selected office and commercial buildings using Summa® canisters. **Table 2** presents the additional Call Center IAQ data compared to the 75th, 90th, 95th and 99th percentile indoor air BASE concentrations for reference in comparing the VOC data to typical indoor background concentrations.

All of the VOC concentrations detected in the Call Center Conference Room IAQ sample were within or below the range of background concentrations listed in the USEPA BASE database as noted in **Table 2**, verifying that indoor air quality is acceptable. TCE was not detected in the December 8th Conference Room sample, and the detected PCE concentration was lower than the PCE concentrations detected in indoor air throughout the Call Center space on July 7, 2020 (refer to Table 2 in the September 2020 IAQ Testing Report presented in Appendix A at the end of this document). IBM continues to operate a vapor extraction system in Building 700 (330D) which removes sub-slab vapors containing elevated concentrations of VOCs from beneath the Crepini space and adjoining portions of the building.

Please call me at (516) 624-7200 if you have any questions or need any additional information.

Very truly yours,
Walden Environmental Engineering, PLLC

Nora M. Brew, P.E.
VP/Senior Project Manager

Attachments:
Figure 1 – Site Location Map
Figure 2 – Sampling Locations

Table 1 – Summary of Field Information
Table 2 – Summary of IAQ Analysis (December 8, 2020)

Attachment 1 – NYSDEC October 1, 2020 Letter Review of September 2020 IAQ Testing Summary Report
Attachment 2 – Indoor Air Quality Questionnaire and Building Inventory
Attachment 3 – Photographic Log of Sampling Locations
Attachment 4 – Laboratory Analytical Report (Category B Deliverables)
Attachment 5 – Data Usability Summary Report (added September 2021)

Appendix A - *IAQ Testing Summary Report* (Walden, September 8, 2020)

cc: J. Kenney, NYSDOH
C. Monheit, National Resources
D. Vitija, National Resources
D. Chartrand, IBM

Z:\iPark0118\iPark0118.38 - Bldg 330D Star Call Center\IAQ Sampling 12-8-20\B700 330D Star Group Call Center Additional IAQ Testing Report 2.3.2021.docx

FIGURE 1
SITE LOCATION MAP

N

Star Call Center (Second Floor)

SITE PLAN

SCALE: 1" = 60'-0"

0 30 60 120 180

SCALE: 1"=60'

WALDEN ENVIRONMENTAL ENGINEERING, PLLC
16 SPRING STREET
OYSTER BAY, NEW YORK 11771
P: (516) 624-7200 F: (516) 624-3219
WWW.WALDENENVIRONMENTALENGINEERING.COM

Walden Environmental Engineering

REVISION		
No.	DATE	COMMENTS

FOR: BUILDING 700 (FORMER 330D)
iPark 84 Campus
2070 State Route 52
Hopewell Junction, NY 12533

Site Plan
Building 330D
Star Group Call Center
Second Floor

FIGURE NO: 1

ISSUED

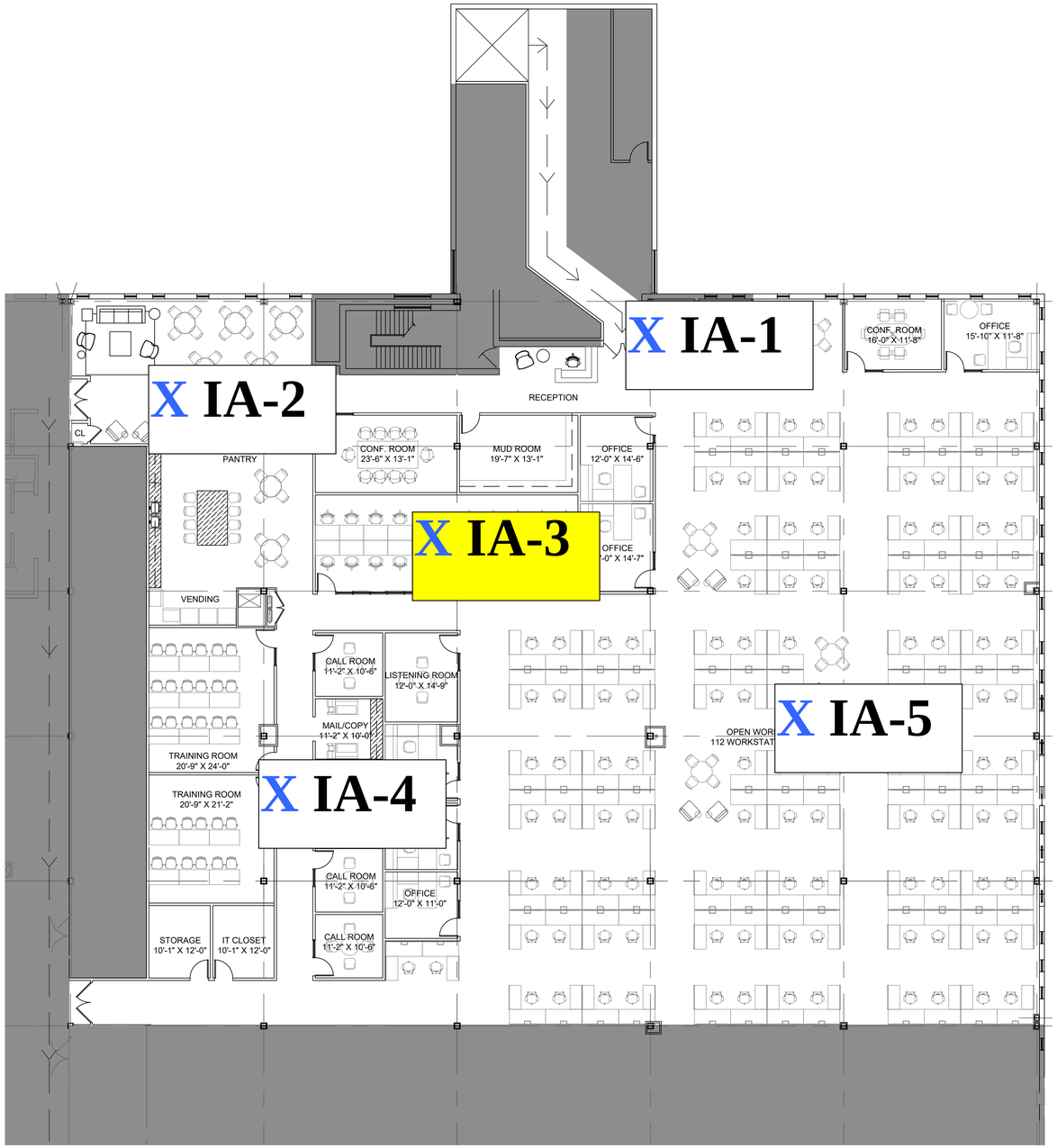
REVISION NO: 0

DESIGNED BY: NMB / GW | DRAWN BY: EJK | JOB NO: IPARK118.35 | DATE: 8/28/19 | 11x17 | SHEET NO: 1 OF 2

APPROVED BY: JMH | SCALE: AS NOTED | CAD FILE NAME: Z:\iPark\118\iPark\118.35 - Bldg 330D Elevator\B330D-Proposed Elevator Installation Work Plan.dwg

FIGURE 2
SAMPLING LOCATION MAP

Figure 2-IAQ Sampling Locations for Star Call Center-Second Floor



X- Sampling Location

NELSON

22 West 19th St.- Second Floor
New York, NY 10011
Phone: (212) 481-1119
WWW.NELSONWORLDWIDE.COM

THE STAR GROUP TEST FIT
iPARK 84, SECOND FLOOR
200 NORTH DRIVE
POUGHKEEPSIE, NY

Issue:	No:	Date:
SK-01	1	06/21/19
SK-02	2	07/25/19
SK-02.1	3	07/29/19
SK-02.2	4	07/30/19
SK-03	5	08/01/19
SK-03.1	6	08/02/19
SK-04	7	08/05/19
SK-05	8	08/09/19
SK-06	9	08/16/19
SK-06.1	10	08/16/19

SK-06.1

3/32" = 1'-0"

08/16/2019

0 4' 8' 16'

Scale:

Proj #: 19.0002146.000 Reviewed By: RP

TABLE 1
SUMMARY OF FIELD INFORMATION

iPARK 84 Campus
2070 NY-Route 52
Hopewell Junction, New York

TABLE 1
SUMMARY OF INDOOR AIR SAMPLE INFORMATION (DECEMBER 8, 2020)
BUILDING 700 (FORMER 330D) - Star Group Call Center

Sample Location	Building Floor	Sample Matrix	Canister Number	Regulator Number	Sample Height (feet above floor)	Start Time (24-hour format)	Start Pressure (mmHg)	PID Reading (ppm)	Stop Time (24-hour format)	Stop Pressure (mmHg)	Temperature (°F)	Location Description	Chemicals Observed Near Sample Location
IA-3	Second	Indoor Air	28583	5353	3.5	8:05	-30	0.1	14:27	-9	72	Conference Room Area (central portion of the space)	None observed

TABLE 2
SUMMARY OF IAQ ANALYSIS (DECEMBER 8, 2020)

iPARK 84 Campus
2070 NY-Route 52
Hopewell Junction, New York

TABLE 2
SUMMARY OF IAQ ANALYSIS (DECEMBER 8, 2020)
BUILDING 700 (FORMER 330D) - STAR GROUP CALL CENTER

		USEPA BASE Database Tables - Typical Background Concentrations for Indoor Air				Collection Date	12/8/2020	
						Sample ID	IA-3	
						Matrix	Air	
	CAS Registry Number	75th Percentile	90th Percentile	95th Percentile	99th Percentile	Location	Conference Room	
						Units		RL
Volatiles (TO15) By TO15								
1,1,1-Trichloroethane	71-55-6	10.8	20.6	33.0	737.9	ug/m3	< 1.09	1.09
1,1-Dichloroethene	75-35-4	<1.2	<1.4	<1.6	<1.7	ug/m3	< 0.20	0.20
1,2,4-Trichlorobenzene	120-82-1	<1.2	<6.8	<7.2	<8.1	ug/m3	< 1.85	1.85
1,2-Dichlorobenzene	95-50-1	<1.0	<1.2	<1.3	10.5	ug/m3	< 0.90	0.90
1,3-Dichlorobenzene	541-73-1	<1.1	<2.4	<2.5	<2.8	ug/m3	< 0.90	0.90
1,4-Dichlorobenzene	106-46-7	1.4	5.5	12.5	80.5	ug/m3	< 0.90	0.90
Acetone	67-64-1	59.8	98.9	120.2	226.6	ug/m3	< 2.37	2.37
Benzene	71-43-2	5.1	9.4	12.5	25.0	ug/m3	0.4	0.16
Carbon Tetrachloride	56-23-5	<1.1	<1.3	0.7	0.9	ug/m3	0.6	0.13
Chlorobenzene	108-90-7	<0.8	<0.9	<1.0	1.0	ug/m3	< 0.92	0.92
Cis-1,2-Dichloroethene	156-59-2	<1.2	<1.9	<2.0	<2.2	ug/m3	< 0.20	0.20
Dichlorodifluoromethane	75-71-8	10.5	16.5	32.9	81.3	ug/m3	2.21	0.99
Ethylbenzene	100-41-4	3.4	5.7	7.6	18.5	ug/m3	< 0.65	0.65
m,p-Xylene	179601-23-1	12.2	22.2	28.5	67.6	ug/m3	0.85	0.65
Methylene Chloride	75-09-2	5.0	10.0	16.0	1155.6	ug/m3	2.74	1.39
o-Xylene	95-47-6	4.4	7.9	11.2	20.1	ug/m3	< 0.65	0.65
Tetrachloroethene	127-18-4	5.9	15.9	25.4	55.6	ug/m3	0.87	0.68
Toluene	108-88-3	25.9	43.0	70.8	348.9	ug/m3	1.72	0.75
Trichloroethene	79-01-6	1.2	4.2	6.5	57.0	ug/m3	< 0.20	0.20
Trichlorofluoromethane	75-69-4	6.7	18.1	54.0	860.6	ug/m3	52.9	0.84
Trichlorotrifluoroethane	76-13-1	<3.0	3.5	9.4	19.7	ug/m3	< 1.15	1.15
Vinyl Chloride	75-01-4	<1.0	<1.9	<2.2	<2.6	ug/m3	< 0.05	0.05

Result Detected

ATTACHMENT 1
NYSDEC OCTOBER 1, 2020 LETTER
REVIEW OF SEPTEMBER 2020 IAQ TESTING SUMMARY REPORT

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Division of Environmental Remediation, Remedial Bureau D
625 Broadway, 12th Floor, Albany, NY 12233-7013
P: (518) 402-9676 I F: (518) 402-9773
www.dec.ny.gov

October 1, 2020

Joseph Cotter
iPark 84
200 North Drive
Hopewell Junction, NY 12533

Re: Building 330D – Star Group (Meehan Oil) Call Center
Indoor Air Quality Report
iPark 84, Former IBM East Fishkill Facility
NYSDEC Site No. 314054, EPA ID NYD000707901

Dear Mr. Cotter:

The New York State Department of Environmental Conservation and Department of Health (Departments) have reviewed the Indoor Air Quality (IAQ) Report for the Star Group Call Center space located in Building 330D dated September 08, 2020. This sampling was conducted by Walden Environmental Engineering on behalf of National Resources. The space is located on the second floor, above the Crepini space which currently has an operating sub-slab depressurization system (SSDS). The sampling was conducted under normal operating conditions but prior to occupancy.

Based on the report, tetrachloroethene (PCE) and trichloroethene (TCE) were detected in the indoor air at low concentrations. TCE was detected in indoor air at a concentration of 0.32µg/m3 in the Conference Room. PCE was detected in indoor air at concentrations between 2.24µg/m3 and 1.17µg/m3 with the highest level being in the Conference Room. Overall, exposure to TCE and PCE, at the levels detected in the indoor air during the most recent sampling event, is unlikely to result in adverse health effects. The Star Group space can be occupied, however additional actions are needed.

The Departments request that a second round of indoor air sampling be conducted during this upcoming heating season. Please use the previously approved sampling work plan and notify the Departments when work is scheduled. If you have any questions, please call me at (518) 402-9821.

Sincerely,

Jessica LaClair
Project Manager
Remedial Section A, Remedial Bureau D
Division of Environmental Remediation

ec: M. Buckley, iPark
C. Monheit, iPark
N. Brew, Walden
D. Chartrand, IBM
E. Lutz, GF
G. Marone, GF
J. Armitage, NYSDEC
D. Bendell, NYSDEC, Region 3
B. Conlon, NYSDEC
J. Stenerson, NYSDEC
S. Edwards, NYSDEC
J. Kenney, NYSDOH
M. Schuck, NYSDOH

ATTACHMENT 2

INDOOR AIR QUALITY QUESTIONNAIRE AND BUILDING INVENTORY

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 Kerri Wright Date/Time Prepared 12/8/20

Preparer's Affiliation Project Scientist Phone No. 845 531 7943

Purpose of Investigation Collection of additional indoor air samples

1. OCCUPANT:

Interviewed: (Y) / N

Last Name: Vitaji First Name: Dardan (Danny)

Address: iPark East Fishkill 3070 Route 52 Hopewell Junction, NY

County: Dutchess

Home Phone: 201-598-1845 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: NO

If multiple units, how many? N/A

If the property is commercial, type?

Business Type(s) Call Center second floor

Does it include residences (i.e., multi-use)? Y (N) If yes, how many? _____

Other characteristics:

Number of floors 1 Building age 1980s

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:

Airflow between floors

N/A

Airflow near source

N/A

Outdoor air infiltration

N/A

Infiltration into air ducts

Moderate

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 N/A
c. Basement floor:	concrete	dirt	stone	other N/A
d. Basement floor:	uncovered	covered	covered with N/A	
e. Concrete floor:	unsealed	(sealed)	sealed with _____	
f. Foundation walls:	poured	block	stone	other N/A
g. Foundation walls:	unsealed	(sealed)	sealed with _____	
h. The basement is: N/A	wet	damp	dry	moldy
i. The basement is: N/A	finished	unfinished	partially finished	
j. Sump present?	Y / (N)			
k. Water in sump?	Y / (N) / not applicable			

Basement/Lowest level depth below grade: N/A (feet) lowest level on grade

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

N/A

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: Natural gas

Boiler/furnace located in: Basement Outdoors Main Floor Other top floor

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.

Recently updated HVAC

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	
1st Floor	Crepini
2nd Floor	Star Group Call Center
3rd Floor	
4th Floor	

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 stored in the garage (e.g., lawnmower, atv, car) Y / (N) / NA
Please specify_____

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? Sanitizer / disinfectants

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? _____

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: _____
Global Foundries WWTP

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:

See workplan

First Floor:

See workplan

12. OUTDOOR PLOT

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.

See workplan

13. PRODUCT INVENTORY FORM

Make & Model of field instrument used: PID MiniRae 3000

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

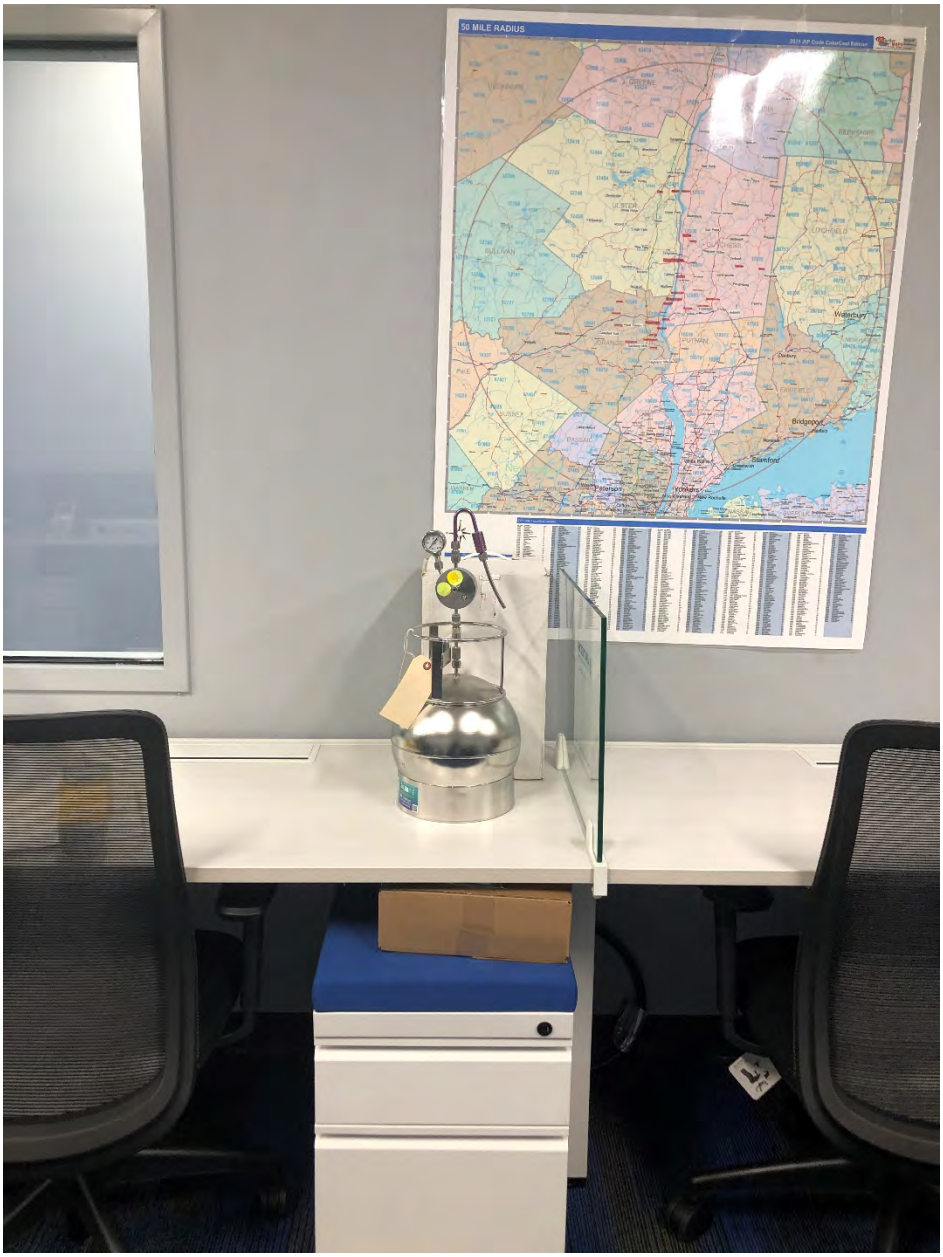
Location	Product Description	Size (units)	Condition*	Chemical Ingredients	Field Instrument Reading (units)	Photo** Y / N
IA-3	Lysol disinfectant	70Z	U		0.1	Y
cafe	hand sanitizer	237ml	U		0.0	Y
all in other spaces						

* 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.

ATTACHMENT 3
PHOTOGRAPHIC LOG OF SAMPLING LOCATIONS

Site Photographs – December 8, 2020

Photograph #1



Sample Location IA-3
Conference Room Area

ATTACHMENT 4
LABORATORY ANALYTICAL REPORT
(CATEGORY B DELIVERABLES)

PHOENIX
Environmental Laboratories, Inc.

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

Walden Environmental Engineering PLLC

STAR GROUP CAV CENTER

GCH28478

Ver 1

Data Package Table of Contents

Wednesday, February 10, 2021

Attn: Nora Brew
Walden Environmental Engineering PLLC
16 Spring Street
Oyster Bay, NY 11771

Project ID: **STAR GROUP CAV CENTER**
SDG ID: **GCH28478**
Sample ID#s: **CH28478**

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.

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.

Sincerely yours,

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
UT Lab Registration #CT00007
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

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

NY ANALYTICAL SERVICES PROTOCOL
DATA PACKAGE

Client: Walden Environmental Engineering PLLC

Project: STAR GROUP CAV CENTER

Laboratory Project: GCH28478

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

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

NY Analytical Services Protocol Format

February 10, 2021 **SDG I.D.: GCH28478**

Walden Environmental Engineering PLLC STAR GROUP CAV CENTER

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.

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

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

NY Analytical Services Protocol Format

February 10, 2021 **SDG I.D.: GCH28478**

Walden Environmental Engineering PLLC STAR GROUP CAV CENTER

Laboratory Chronicle

Sample	Analysis	Collection Date	Prep Date	Analysis Date	Analyst	Hold Time Met
CH28478	Volatiles (TO15)	12/08/20	12/09/20	12/09/20	KCA	Y

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

NY # 11301

Sample Id Cross Reference

February 10, 2021

SDG I.D.: GCH28478

Project ID: STAR GROUP CAV CENTER

Client Id	Lab Id	Matrix
IA-3	CH28478	AIR

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

NY # 11301

Analysis Report

February 10, 2021

FOR: Attn: Nora Brew
Walden Environmental Engineering PLLC
16 Spring Street
Oyster Bay, NY 11771

Sample Information		Custody Information		Date	Time
Matrix:	AIR	Collected by:	KAW	12/08/20	14:27
Location Code:	WALDENE-IPARK	Received by:	LB	12/09/20	16:36
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					
Canister Id:	28583				

Laboratory Data

SDG ID: GCH28478
Phoenix ID: CH28478

Project ID: STAR GROUP CAV CENTER
Client ID: IA-3

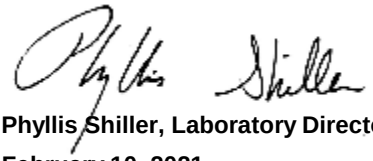
Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution
Volatiles (TO15)									
1,1,1-Trichloroethane	ND	*0.200*	0.200	ND	*1.09*	1.09	12/09/20	KCA	1
1,1-Dichloroethene	ND	*0.050*	0.050	ND	*0.20*	0.20	12/09/20	KCA	1
1,2,4-Trichlorobenzene	ND	*0.250*	0.250	ND	*1.85*	1.85	12/09/20	KCA	1
1,2-Dichlorobenzene	ND	*0.150*	0.150	ND	*0.90*	0.90	12/09/20	KCA	1
1,3-Dichlorobenzene	ND	*0.150*	0.150	ND	*0.90*	0.90	12/09/20	KCA	1
1,4-Dichlorobenzene	ND	*0.150*	0.150	ND	*0.90*	0.90	12/09/20	KCA	1
Acetone	ND	*1.00*	1.00	ND	*2.37*	2.37	12/09/20	KCA	1
Benzene	0.125	*0.050*	0.050	0.40	*0.16*	0.16	12/09/20	KCA	1
Carbon Tetrachloride	0.096	*0.020*	0.020	0.60	*0.13*	0.13	12/09/20	KCA	1
Chlorobenzene	ND	*0.200*	0.200	ND	*0.92*	0.92	12/09/20	KCA	1
Cis-1,2-Dichloroethene	ND	*0.050*	0.050	ND	*0.20*	0.20	12/09/20	KCA	1
Dichlorodifluoromethane	0.447	*0.200*	0.200	2.21	*0.99*	0.99	12/09/20	KCA	1
Ethylbenzene	ND	*0.150*	0.150	ND	*0.65*	0.65	12/09/20	KCA	1
m,p-Xylene	0.195	*0.150*	0.150	0.85	*0.65*	0.65	12/09/20	KCA	1
Methylene Chloride	0.788	*0.400*	0.400	2.74	*1.39*	1.39	12/09/20	KCA	1
o-Xylene	ND	*0.150*	0.150	ND	*0.65*	0.65	12/09/20	KCA	1
Tetrachloroethene	0.129	*0.100*	0.100	0.87	*0.68*	0.68	12/09/20	KCA	1
Toluene	0.458	*0.200*	0.200	1.72	*0.75*	0.75	12/09/20	KCA	1
Trichloroethene	ND	*0.037*	0.037	ND	*0.20*	0.20	12/09/20	KCA	1
Trichlorofluoromethane	9.43	*0.150*	0.150	52.9	*0.84*	0.84	12/09/20	KCA	1
Trichlorotrifluoroethane	ND	*0.150*	0.150	ND	*1.15*	1.15	12/09/20	KCA	1
Vinyl Chloride	ND	*0.020*	0.020	ND	*0.05*	0.05	12/09/20	KCA	1
QA/QC Surrogates/Internals									
% Bromofluorobenzene	98	%	%	98	%	%	12/09/20	KCA	1
% IS-1,4-Difluorobenzene	78	%	%	78	%	%	12/09/20	KCA	1
% IS-Bromochloromethane	77	%	%	77	%	%	12/09/20	KCA	1

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution
% IS-Chlorobenzene-d5	79	%	%	79	%	%	12/09/20	KCA	1

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 (preceeded 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
February 10, 2021
Reviewed and Released by: Greg Lawrence, Assistant Lab Director

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

NY # 11301

Canister Sampling Information

February 10, 2021

FOR: Attn: Nora Brew
Walden Environmental Engineering PLLC
16 Spring Street
Oyster Bay, NY 11771

Location Code: WALDENE-IPARK

SDG I.D.: GCH28478

Project ID: STAR GROUP CAV CENTER

						Laboratory					Field			
Client Id	Lab Id	Canister Id	Canister Type	Reg. Id	Chk Out Date	Out Hg	In Hg	Out Flow	In Flow	Flow RPD	Start Hg	End Hg	Sampling Start Date	Sampling End Date
IA-3	CH28478	28583	6.0L	5353	12/01/20	-30	-9	10.8	11.6	7.1	-30	-9	12/08/20 08:05	12/08/20 14:27

PHOENIX

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

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

QA/QC Report

February 10, 2021

QA/QC Data

SDG I.D.: GCH28478

Parameter	Blk ppbv	Blk RL ppbv	Blk ug/m3	Blk RL ug/m3	LCS %	LCSD %	Sample Result ug/m3	Sample Dup ug/m3	Sample Result ppbv	Sample Dup ppbv	DUP RPD	% Rec Limits	% RPD Limits
QA/QC Batch 556161 (ppbv), QC Sample No: CH28475 (CH28478)													
Volatiles													
1,1,1-Trichloroethane	ND	0.200	ND	1.09	109	111	ND	ND	ND	ND	NC	70 - 130	25
1,1-Dichloroethene	ND	0.050	ND	0.20	126	127	ND	ND	ND	ND	NC	70 - 130	25
1,2,4-Trichlorobenzene	ND	0.250	ND	1.85	93	92	ND	ND	ND	ND	NC	70 - 130	25
1,2-Dichlorobenzene	ND	0.150	ND	0.90	110	117	ND	ND	ND	ND	NC	70 - 130	25
1,3-Dichlorobenzene	ND	0.150	ND	0.90	107	114	ND	ND	ND	ND	NC	70 - 130	25
1,4-Dichlorobenzene	ND	0.150	ND	0.90	109	116	ND	ND	ND	ND	NC	70 - 130	25
Acetone	ND	1.00	ND	2.37	104	109	ND	ND	ND	ND	NC	70 - 130	25
Benzene	ND	0.050	ND	0.16	98	101	0.46	0.50	0.145	0.158	NC	70 - 130	25
Carbon Tetrachloride	ND	0.020	ND	0.13	112	117	0.56	0.43	0.089	0.069	NC	70 - 130	25
Chlorobenzene	ND	0.200	ND	0.92	101	106	ND	ND	ND	ND	NC	70 - 130	25
Cis-1,2-Dichloroethene	ND	0.050	ND	0.20	108	106	ND	ND	ND	ND	NC	70 - 130	25
Dichlorodifluoromethane	ND	0.200	ND	0.99	110	107	1.95	1.99	0.394	0.403	NC	70 - 130	25
Ethylbenzene	ND	0.150	ND	0.65	105	109	ND	ND	ND	ND	NC	70 - 130	25
m,p-Xylene	ND	0.150	ND	0.65	109	115	0.70	0.74	0.161	0.170	NC	70 - 130	25
Methylene Chloride	ND	0.400	ND	1.39	125	129	ND	1.42	ND	0.409	NC	70 - 130	25
o-Xylene	ND	0.150	ND	0.65	110	114	ND	ND	ND	ND	NC	70 - 130	25
Tetrachloroethene	ND	0.100	ND	0.68	107	108	1.07	1.11	0.158	0.164	NC	70 - 130	25
Toluene	ND	0.200	ND	0.75	106	108	1.24	1.35	0.329	0.359	NC	70 - 130	25
Trichloroethene	ND	0.037	ND	0.20	105	109	ND	ND	ND	ND	NC	70 - 130	25
Trichlorofluoromethane	ND	0.150	ND	0.84	128	130	1.66	1.84	0.295	0.327	NC	70 - 130	25
Trichlorotrifluoroethane	ND	0.150	ND	1.15	120	123	ND	ND	ND	ND	NC	70 - 130	25
Vinyl Chloride	ND	0.020	ND	0.05	114	106	ND	ND	ND	ND	NC	70 - 130	25
% Bromofluorobenzene	95	%	95	%	102	107	96	97	96	97	NC	70 - 130	25
% IS-1,4-Difluorobenzene	93	%	93	%	75	68	94	87	94	87	NC	60 - 140	25
% IS-Bromochloromethane	92	%	92	%	75	69	90	84	90	84	NC	60 - 140	25
% IS-Chlorobenzene-d5	95	%	95	%	79	71	97	89	97	89	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

Phyllis Shiller, Laboratory Director
February 10, 2021

Sample Criteria Exceedances Report

GCH28478 - WALDENE-IPARK

Criteria: None

State: NY

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units

*** No Data to Display ***

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.

PHOENIX
Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040
Email: info@phoenixlabs.com Fax (860) 645-0823
Client Services (860) 645-1102

Data Delivery:
☐ Fax #:
☑ Email: nbrew@walden-associates.com

02/10/2021

Report to: Nora Brew, P.E.	**Invoice to:** Carl Monheit	**Project Name:** Star Group Cau Center	
Address: 16 Spring St Oyster Bay, NY 11771	**Address:** 485 West Putnam Ave Greenwich, CT 06850	**Location:** Park East Fishkill	
Project Mgr: Nora Brew	**P.O. #**	**State:** New York	
Phone # (516) 624-7200	**Quote #** Park 0118.38 Cau center	**Sampled by:** HAW	

Phoenix ID #	Client Sample ID	Canister ID #	Canister Size (L)	Outgoing Canister Pressure ("Hg)	Incoming Canister Pressure ("Hg)	Flow Regulator ID #	Flow Controller Setting (mL/min)	Sampling Start Time	Sampling End Time	Sample Start Date	Canister Pressure at Start ("Hg)	Canister Pressure at End ("Hg)	Ambient/Indoor Air	Soil Gas	Grab (G) Composite (C)		TO-14	TO-15				Is Canister Returned Unused? Y/N
		LAB USE ONLY											MATRIX				ANALYSES					
28478	IA-3	26583	6.0	-30	-9	5353	10.8	8:05	1427	12/8/20	-30	-9	X		G			X				
			↓	↓			↓															

Relinquished by:	Accepted by:	Date:	Time:
Ken Wright	[illegible] 13:55	12/9	1:30
[illegible]	Ken Wright	12/9/20	16:30

Criteria Requested: **Deliverable:**
RCP ☐ MCP ☐
State where samples collected: NY

Data Format:
(Excel) ☐ Equis ☐
(PDF) ☐ Other: ☐
GISKey ☐

SPECIAL INSTRUCTIONS, QC REQUIREMENTS, REGULATORY INFORMATION:
TO-15 "special code/list needed"
See Bobbi or Greg
Modified TO-15 analysis as per project QAPP Provided

I attest that all media released by Phoenix Environmental Laboratories, Inc. have been received in good working condition and agree to the terms and conditions as listed on the back of this document:

Signature: Ken Ann Wright Date: 12/8/20

Bobbi Aloisa

From: Michael Lapman
Sent: Friday, February 05, 2021 11:14 AM
To: Bobbi Aloisa
Subject: FW: Phoenix Labs - GCH28478 - Inv: 895576 - Proj: STAR GROUP CAV CENTER
Attachments: PhoenixLabs_Invoice_895576_GCH28478.pdf

Bobbi:

Please see the below from Nora. Thank you.

Regards,
Michael Lapman
Phoenix Environmental Laboratories, Inc.
587 East Middle Turnpike
Manchester, CT 06040
Direct Line: 917.449.0850
Laboratory: 860.812.0086
www.phoenixlabs.com

From: nbrew@Walden-Associates.com <nbrew@Walden-Associates.com>
Date: Friday, February 5, 2021 at 11:12 AM
To: Michael Lapman <michael@phoenixlabs.com>
Cc: lzeman@walden-associates.com <lzeman@walden-associates.com>
Subject: FW: Phoenix Labs - GCH28478 - Inv: 895576 - Proj: STAR GROUP CAV CENTER

Michael,

Please have a Cat B report generated for this analysis.

Thanks,
Nora

NORA M. BREW, P.E.
VICE PRESIDENT, SENIOR PROJECT MANAGER

WALDEN ENVIRONMENTAL ENGINEERING
16 SPRING STREET, OYSTER BAY, NEW YORK 11771(HQ)
OFFICE: (516) 624-7200, FAX: (516) 624-3219
WWW.WALDENENVIRONMENTALENGINEERING.COM

ADDITIONAL LOCATIONS
CAPITAL DISTRICT * HUDSON VALLEY

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Environmental Laboratories, Inc.

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: Walden Environmental Engineering PLLC

STAR GROUP CAV CENTER

Laboratory Project: GCH28478

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 MDL
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 indentification 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.

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

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

SDG: GCH28478

Volatile Air Conformance / Non-Conformance Summary

Project ID / Client ID: STAR GROUP CAV CENTER, Walden Environmental Engineering PLLC

Form 1 (Analysis):

No observations noted.

Form 2 (Surrogates):

All surrogates met criteria with the following exceptions: None.

Form 3 (Laboratory Control/Matrix Spike):

Sample: CH28475 LCSD
All LCS recoveries met criteria with the following exceptions: None.

Sample: CH28475 LCS
All LCS recoveries met criteria with the following exceptions: None.

Form 4 (Method Blank):

File: CHEM24 1209_07.D
All compounds were non-detect with the following exceptions: None.

Form 5 (Tune):

File: CHEM24 1203_02.D
All Tune criteria was met with the following exceptions: None.

File: CHEM24 1209_02.D
All Tune criteria was met with the following exceptions: None.

Form 6 (Initial Calibration):

Calibration: CHEM24 12/03/20 - 12/03/20
100% of method compounds met criteria.
The following compounds did not meet maximum % deviations: None.

Calibration: CHEM24 12/03/20 - 12/03/20
100% of method compounds met criteria.
The following compounds did not meet maximum % deviations: None.

Form 7 (Continuing Calibration):

File: CHEM24 1209_02.D (Opening)
97% of method compounds met criteria.
The following compounds did not meet maximum % deviations: 1,2,4-Trichlorobenzene 56.9% (30), 1,2,4-Trichlorobenzene(sim) 57.8% (30)

Form 8 (Internal Standard and Retention Time):

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

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

SDG: GCH28478

Volatile Air Conformance / Non-Conformance Summary

Project ID / Client ID: STAR GROUP CAV CENTER, Walden Environmental Engineering PLLC

File: CHEM24 - 24AIR_1203.M / 1209_02.D Full
All samples met internal standard area and retention time critieria with the following exceptions: None.

File: CHEM24 - 24AIR_1203.M / 1209_02.D Sim
All samples met internal standard area and retention time critieria with the following exceptions: None.

File: CHEM24 - 24AIR_1203.M / Average Full
All samples met internal standard area and retention time critieria with the following exceptions: None.

File: CHEM24 - 24AIR_1203.M / Average Sim
All samples met internal standard area and retention time critieria with the following exceptions: None.

02/10/21

Alejandro Paredes
Project Manager

2C
AIR SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: Phoenix Environmental Labs Client: WALDENE-IPARK

Lab Code: Phoenix Case No.: SDG: GCH28478

QC Batch Id: 556161 QC Sample Id: CH28475

	CLIENT ID	LAB ID	SMC1 BFB #				TOT OUT
01	CH28475 BLANK	CH28475 BLANK	95				0
02	CH28475 QC	CH28475 QC	97				0
03	28475 368cc dup	CH28475 DUP	97				0
04	IA-3	CH28478	99				0
05	CH28475 LCSD	CH28475 LCSD	107				0
06	CH28475 LCS	CH28475 LCS	102				0
07							
08							
09							
10							
11							
12							
13							
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28							
29							
30							

			QC LIMITS
SMC1	BFB	Bromofluorobenzene	(70-130)

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

FORM II AIR

AIR LCS RECOVERY

Lab Name: Phoenix Environmental Labs Client: WALDENE-IPARK

Lab Code: Phoenix Case No: SAS No: SDG No GCH28478

LCS - Client Id: CH28475 LCSD

COMPOUND	SPIKE ADDED (ppbv)		LCS CONCENTRATION (ppbv)	LCS % REC #	QC. LIMITS REC.	
Dichlorodifluoromethane	10		10.72	107	70	130
Vinyl Chloride	10		10.63	106	70	130
Acetone	10		10.95	110	70	130
Trichlorofluoromethane	10		12.99	130	70	130
1,1-Dichloroethene	10		12.71	127	70	130
Methylene Chloride	10		12.88	129	70	130
Trichlorotrifluoroethane	10		12.27	123	70	130
Cis-1,2-Dichloroethene	10		10.61	106	70	130
1,1,1-Trichloroethane	10		11.13	111	70	130
Benzene	10		10.11	101	70	130
Carbon Tetrachloride	10		11.68	117	70	130
Trichloroethene	10		10.85	109	70	130
Toluene	10		10.75	108	70	130
Tetrachloroethene	10		10.84	108	70	130
Chlorobenzene	10		10.56	106	70	130
Ethylbenzene	10		10.85	109	70	130
m,p-Xylene	20		22.97	115	70	130
o-Xylene	10		11.43	114	70	130
1,3-Dichlorobenzene	10		11.36	114	70	130
1,4-Dichlorobenzene	10		11.58	116	70	130
1,2-Dichlorobenzene	10		11.75	118	70	130
1,2,4-Trichlorobenzene	10		9.246	92	70	130

FORM III AIR

AIR LCS RECOVERY

Lab Name: Phoenix Environmental Labs Client: WALDENE-IPARK

Lab Code: Phoenix Case No: SAS No: SDG No GCH28478

LCS - Client Id: CH28475 LCS

COMPOUND	SPIKE ADDED (ppbv)		LCS CONCENTRATION (ppbv)	LCS % REC #	QC. LIMITS REC.	
Dichlorodifluoromethane	10		10.95	110	70	130
Vinyl Chloride	10		11.44	114	70	130
Acetone	10		10.44	104	70	130
Trichlorofluoromethane	10		12.84	128	70	130
1,1-Dichloroethene	10		12.62	126	70	130
Methylene Chloride	10		12.49	125	70	130
Trichlorotrifluoroethane	10		11.97	120	70	130
Cis-1,2-Dichloroethene	10		10.77	108	70	130
1,1,1-Trichloroethane	10		10.94	109	70	130
Benzene	10		9.752	98	70	130
Carbon Tetrachloride	10		11.24	112	70	130
Trichloroethene	10		10.47	105	70	130
Toluene	10		10.55	106	70	130
Tetrachloroethene	10		10.73	107	70	130
Chlorobenzene	10		10.13	101	70	130
Ethylbenzene	10		10.45	105	70	130
m,p-Xylene	20		21.87	109	70	130
o-Xylene	10		11.03	110	70	130
1,3-Dichlorobenzene	10		10.74	107	70	130
1,4-Dichlorobenzene	10		10.91	109	70	130
1,2-Dichlorobenzene	10		11.02	110	70	130
1,2,4-Trichlorobenzene	10		9.325	93	70	130

FORM III AIR

4A

AIR METHOD BLANK SUMMARY

Client ID: CH28475 BLANK

Lab Name: Phoenix Environmental Labs Client:

Lab Code: Phoenix Case No.: SAS No.: SDG No.: GCH28478

Lab File ID: 1209_07.D Lab Sample ID: CH28475 BLK

Date Analyzed: 12/09/2020 Time Analyzed: 19:16

GC Column: RTX-VMS Lab Batch ID: 556161

Instrument ID: CHEM24 Heated Purge:(Y/N) Y

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	CH28475 QC	CH28475	1209_08.D	19:55
02	28475 368cc dup	CH28475 DUP	1209_09.D	20:36
03	IA-3	CH28478	1209_12.D	22:37
04	CH28475 LCSD	CH28475 LCS	1209_26.D	10:21
05	CH28475 LCS	CH28475 LCS	1209_27.D	11:16
06				
07				
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COMMENTS:

FORM IV AIR

5B
AIR INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Phoenix Environmental Labs Client:

Lab Code: Phoenix Case No.: SAS No.: SDG No.: GCH28478

Lab File ID: 1203_02.D BFB Injection Date: 12/03/20

Instrument ID: CHEM24 BFB Injection Time: 15:16

GC Column: RTX-VMS Heated Purge: (Y/N) Y

AutoFind: Scans 1666, 1667, 1668; Background Corrected with Scan 1658

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE			
50	8.0 - 40.0% of mass 95	31.6			
75	30.0 - 66.0% of mass 95	47.5			
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	0.4	(	0.5	)1
174	50.0 - 120.0% of mass 95	86.8			
175	4.0 - 9.0% of mass 174	7.6	(	6.6	)1
176	93.0 - 101.0% of mass 174	95.9	(	83.2	)1
177	5.0 - 9.0% of mass 176	6.6	(	5.5	)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 0.02	0.02	1203_03.D	12/03/20	15:48	
02	ICAL 0.035	0.035	1203_04.D	12/03/20	16:19	
03	ICAL 0.05	0.05	1203_05.D	12/03/20	16:51	
04	ICAL 0.1	0.10	1203_06.D	12/03/20	17:23	
05	ICAL 0.25	0.20	1203_07.D	12/03/20	17:56	
06	ICAL 0.5	0.5	1203_08.D	12/03/20	18:32	
07	ICAL 2.5	2.5	1203_09.D	12/03/20	19:08	
08	ICAL 5	5.0	1203_10.D	12/03/20	19:41	
09	ICAL 25	25	1203_11.D	12/03/20	20:17	
10	ICAL 40	40	1203_12.D	12/03/20	20:56	
11	ICAL 1	1ppb	1203_14.D	12/03/20	22:00	
12	ICAL 10	10ppb	1203_15.D	12/03/20	22:33	
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						

(*) Outside 24 hr clock

FORM V AIR

CLPBFB

Data Path : H:\AIR2020\CHEM24\12DEC\03\
Data File : 1203_02.D
Acq On : 3 Dec 2020 3:16 pm
Operator : Keith
Sample : 0/0
Misc :
ALS Vial : 4 Sample Multiplier: 1

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

Method : H:\AIR2020\CHEM24\METHODS\24AIR_1203.M
Title : VOA Standards for 5 point calibration
Last Update : Fri Dec 04 08:31:02 2020

AutoFind: Scans 1666, 1667, 1668; Background Corrected with Scan 1658

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	31.6	59907	PASS
75	95	30	66	47.5	89995	PASS
95	95	100	100	100.0	189547	PASS
96	95	5	9	6.6	12509	PASS
173	174	0.00	2	0.5	784	PASS
174	95	50	120	86.8	164459	PASS
175	174	4	9	7.6	12426	PASS
176	174	93	101	95.9	157680	PASS
177	176	5	9	6.6	10399	PASS

24AIR_1203.M Fri Dec 04 08:31:39 2020

5B
AIR INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Phoenix Environmental Labs Client:

Lab Code: Phoenix Case No.: SAS No.: SDG No.: GCH28478

Lab File ID: 1209_02.D BFB Injection Date: 12/09/20

Instrument ID: CHEM24 BFB Injection Time: 16:06

GC Column: RTX-VMS Heated Purge: (Y/N) Y

AutoFind: Scans 1668, 1669, 1670; Background Corrected with Scan 1661

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE			
50	8.0 - 40.0% of mass 95	35.8			
75	30.0 - 66.0% of mass 95	51.5			
95	Base Peak, 100% relative abundance	100.0			
96	5.0 - 9.0% of mass 95	6.7			
173	Less than 2.0% of mass 174	0.9	(	1.1	)1
174	50.0 - 120.0% of mass 95	84.2			
175	4.0 - 9.0% of mass 174	7.6	(	6.4	)1
176	93.0 - 101.0% of mass 174	95.3	(	80.3	)1
177	5.0 - 9.0% of mass 176	6.9	(	5.5	)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 cc	1209_02.D	12/09/20	16:06	
02	CH28475 BLANK	CH28475 BLANK	1209_07.D	12/09/20	19:16	
03	CH28475 QC	CH28475 QC	1209_08.D	12/09/20	19:55	
04	28475 368cc dup	CH28475 DUP	1209_09.D	12/09/20	20:36	
05	IA-3	CH28478	1209_12.D	12/09/20	22:37	
06	CH28475 LCSD	CH28475 LCSD	1209_26.D	12/10/20	10:21	
07	CH28475 LCS	CH28475 LCS	1209_27.D	12/10/20	11:16	
08						
09						
10						
11						
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13						
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						

(*) Outside 24 hr clock

FORM V AIR

CLPBFB

Data Path : H:\AIR2020\CHEM24\12DEC\09\
Data File : 1209_02.D
Acq On : 9 Dec 2020 4:06 pm
Operator : Keith
Sample : 1ppb cc
Misc :
ALS Vial : 2 Sample Multiplier: 1

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

Method : H:\AIR2020\CHEM24\METHODS\24AIR_1203.M
Title : VOA Standards for 5 point calibration
Last Update : Fri Dec 04 08:35:47 2020

AutoFind: Scans 1668, 1669, 1670; Background Corrected with Scan 1661

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	35.8	56640	PASS
75	95	30	66	51.5	81549	PASS
95	95	100	100	100.0	158336	PASS
96	95	5	9	6.7	10628	PASS
173	174	0.00	2	1.1	1428	PASS
174	95	50	120	84.2	133336	PASS
175	174	4	9	7.6	10171	PASS
176	174	93	101	95.3	127115	PASS
177	176	5	9	6.9	8710	PASS

24AIR_1203.M Thu Dec 10 08:46:05 2020

8A
AIR INTERNAL STANDARD AREA AND RT SUMMARY
Full Scan

Lab Name: Phoenix Environmental Labs Client:

Lab Code: Phoenix Case No.: SAS No.: SDG No.: GCH28478

Lab Method / File Id: 24AIR_1203.M / Average Date Analyzed: 12/03/20

Instrument ID: CHEM24 Time Analyzed: 22:00

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
	12 HOUR STD	138901		5.33		405796		7.27		186999		10.86				Average
	UPPER LIMIT	195156		5.66		570144		7.60		262733		11.19				Average
	LOWER LIMIT	82646		5.00		241449		6.94		111264		10.53				Average
	CLIENT ID															
01	ICAL 0.25	140105		5.33		414179		7.27		185742		10.86				1203_07.D
02	ICAL 0.5	134237		5.33		396222		7.27		177106		10.86				1203_08.D
03	ICAL 2.5	132589		5.33		388875		7.27		178798		10.86				1203_09.D
04	ICAL 5	130484		5.33		371086		7.28		174586		10.86				1203_10.D
05	ICAL 25	130388		5.33		382090		7.28		182308		10.86				1203_11.D
06	ICAL 40	151205		5.34		438941		7.28		207897		10.86				1203_12.D
07	ICAL 1	151794		5.33		446858		7.27		200160		10.86				1203_14.D
08	ICAL 10	140406		5.33		408118		7.28		189392		10.86				1203_15.D
09																
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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:

Lab Code: Phoenix Case No.: SAS No.: SDG No.: GCH28478

Lab Method / File Id: 24AIR_1203.M / Average Date Analyzed: 12/03/20

Instrument ID: CHEM24 Time Analyzed: 22:00

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
	12 HOUR STD	149217	5.33	417856	7.27	187748	10.86			Average
	UPPER LIMIT	209650	5.66	587088	7.60	263785	11.19			Average
	LOWER LIMIT	88784	5.00	248625	6.94	111710	10.53			Average
	CLIENT ID									
01	ICAL 0.02	161140	5.33	449317	7.28	189618	10.86			1203_03.D
02	ICAL 0.035	158776	5.33	448707	7.27	198345	10.86			1203_04.D
03	ICAL 0.05	156861	5.33	441431	7.27	196635	10.86			1203_05.D
04	ICAL 0.1	146907	5.33	413771	7.27	187093	10.86			1203_06.D
05	ICAL 0.25	146771	5.33	414179	7.27	185742	10.86			1203_07.D
06	ICAL 0.5	142472	5.33	396222	7.27	177106	10.86			1203_08.D
07	ICAL 2.5	140338	5.33	388875	7.27	178798	10.86			1203_09.D
08	ICAL 5	135648	5.33	371086	7.28	174586	10.86			1203_10.D
09	ICAL 1	157374	5.33	446858	7.27	200160	10.86			1203_14.D
10	ICAL 10	145887	5.34	408118	7.28	189392	10.86			1203_15.D
11										
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16										
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19										
20										
21										
22										

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

AREA UPPER LIMIT = +140% of internal standard area
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FORM VIII VOA

8A
AIR INTERNAL STANDARD AREA AND RT SUMMARY
Full Scan

Lab Name: Phoenix Environmental Labs Client:

Lab Code: Phoenix Case No.: SAS No.: SDG No.: GCH28478

Lab Method / File Id: 24AIR_1203.M / 1209_02.D Date Analyzed: 12/09/20

Instrument ID: CHEM24 Time Analyzed: 16:06

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

		IS1 (BCM) AREA	#	RT	#	IS2 (DFB) AREA	#	RT	#	IS3 (CBZ) AREA	#	RT	#			LAB FILE ID
	12 HOUR STD	145423		5.36		424306		7.29		191708		10.87				1209_02.D
	UPPER LIMIT	204319		5.69		596150		7.62		269350		11.20				1209_02.D
	LOWER LIMIT	86527		5.03		252462		6.96		114066		10.54				1209_02.D
	CLIENT ID															
01	CCAL 1	145423		5.36		424306		7.29		191708		10.87				1209_02.D
02	CH28475 BLANK	133095		5.36		395073		7.29		182743		10.87				1209_07.D
03	CH28475 QC	131224		5.35		399553		7.29		185319		10.87				1209_08.D
04	28475 368cc dup	121643		5.35		368368		7.29		170445		10.87				1209_09.D
05	IA-3	112613		5.35		331250		7.28		151449		10.87				1209_12.D
06	CH28475 LCSD	100081		5.33		287273		7.28		135487		10.86				1209_26.D
07	CH28475 LCS	109004		5.33		318885		7.28		152161		10.86				1209_27.D
08																
09																
10																
11																
12																
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15																
16																
17																
18																
19																
20																
21																
22																

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RT LOWER LIMIT = -0.33 minutes of internal standard RT

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* Values outside of QC limits.

FORM VIII VOA

8A
AIR INTERNAL STANDARD AREA AND RT SUMMARY
Sim Scan

Lab Name: Phoenix Environmental Labs Client:

Lab Code: Phoenix Case No.: SAS No.: SDG No.: GCH28478

Lab Method / File Id: 24AIR_1203.M / 1209_02.D Date Analyzed: 12/09/20

Instrument ID: CHEM24 Time Analyzed: 16:06

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

		IS1 (BCM) AREA	#	RT	#	IS2 (DFB) AREA	#	RT	#	IS3 (CBZ) AREA	#	RT	#			LAB FILE ID
	12 HOUR STD	151994		5.35		424306		7.29		191708		10.87				1209_02.D
	UPPER LIMIT	213552		5.68		596150		7.62		269350		11.20				1209_02.D
	LOWER LIMIT	90436		5.02		252462		6.96		114066		10.54				1209_02.D
	CLIENT ID															
01	CCAL 1	151994		5.35		424306		7.29		191708		10.87				1209_02.D
02	CH28475 BLANK	139497		5.35		395073		7.29		182743		10.87				1209_07.D
03	CH28475 QC	136460		5.35		399553		7.29		185319		10.87				1209_08.D
04	28475 368cc dup	127292		5.35		368368		7.29		170445		10.87				1209_09.D
05	IA-3	117695		5.35		331250		7.28		151449		10.87				1209_12.D
06	CH28475 LCSD	106270		5.34		287273		7.28		135487		10.86				1209_26.D
07	CH28475 LCS	116842		5.34		318885		7.28		152161		10.86				1209_27.D
08																
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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

CLIENT ID

AIR ANALYSIS DATA SHEET

IA-3

Client: WALDENE-IPARK Lab: Phoenix Env. Labs

SDG No.: GCH28478 Lab Sample ID: CH28478

Canister: 28583 Lab File ID: 1209_12.D

Instrument: CHEM24 Column: RTX-VMS Date Received: 12/09/20

Purge Volume 200 (cc) Date Analyzed: 12/09/20

Matrix: AIR Dilution Factor: 1

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
75-71-8	Dichlorodifluoromethane	0.447		0.200	0.200	r
67-64-1	Acetone	1.00	U	1.00	1.00	r
75-69-4	Trichlorofluoromethane	9.43		0.150	0.150	r
75-09-2	Methylene Chloride	0.788	S	0.400	0.400	r
76-13-1	Trichlorotrifluoroethane	0.150	U	0.150	0.150	r
71-55-6	1,1,1-Trichloroethane	0.200	U	0.200	0.200	r
108-88-3	Toluene	0.458		0.200	0.200	r
108-90-7	Chlorobenzene	0.200	U	0.200	0.200	r
95-47-6	o-Xylene	0.150	U	0.150	0.150	r
541-73-1	1,3-Dichlorobenzene	0.150	U	0.150	0.150	r
95-50-1	1,2-Dichlorobenzene	0.150	U	0.150	0.150	r
75-01-4	Vinyl Chloride(sim)	0.020	U	0.020	0.020	r
71-43-2	Benzene(sim)	0.125		0.050	0.050	r
56-23-5	Carbon Tetrachloride(sim)	0.096		0.020	0.020	r
75-35-4	1,1-Dichloroethene(sim)	0.050	U	0.050	0.050	r
156-59-2	Cis-1,2-Dichloroethene(sim)	0.050	U	0.050	0.050	r
79-01-6	Trichloroethene(sim)	0.037	U	0.037	0.037	r
127-18-4	Tetrachloroethene(sim)	0.129		0.100	0.100	r
100-41-4	Ethylbenzene(sim)	0.150	U	0.150	0.150	r
179601-23-1	m,p-Xylene(sim)	0.195		0.150	0.150	r
106-46-7	1,4-Dichlorobenzene(sim)	0.150	U	0.150	0.150	r
120-82-1	1,2,4-Trichlorobenzene(sim)	0.250	U	0.250	0.250	r

FORM I AIR

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

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2020\CHEM24\12DEC\09\
Data File : 1209_12.D
Acq On : 9 Dec 2020 10:37 pm
Operator : Keith
Client ID : IA-3
Lab ID : CH28478
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Dec 10 08:53:05 2020
Quant Method : H:\AIR2020\CHEM24\METHODS\24AIR_1203.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Fri Dec 04 08:35:56 2020
Response via : Initial Calibration

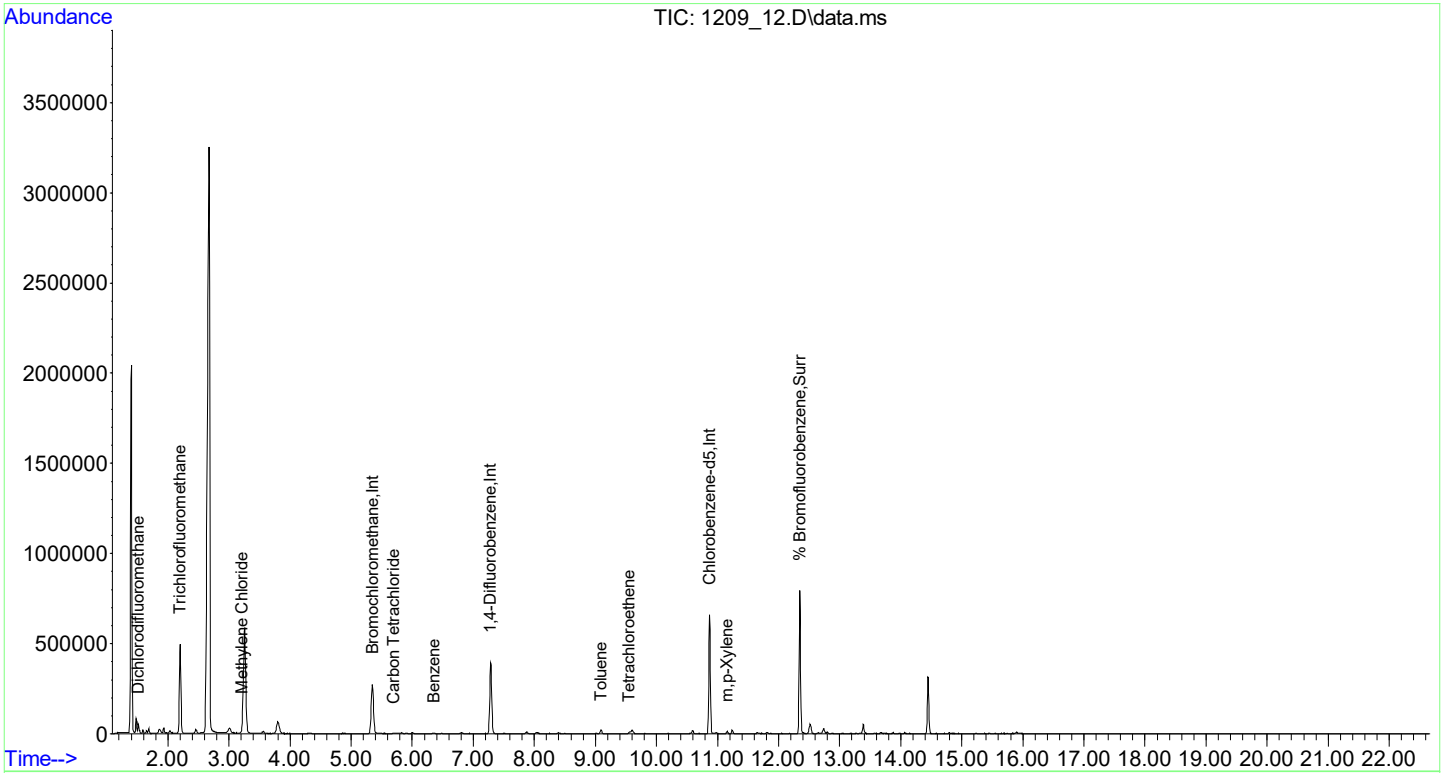
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	5.349	130	112613	10.000	ng		0.01
36) 1,4-Difluorobenzene	7.284	114	331250	10.000	ng		0.01
53) Chlorobenzene-d5	10.870	82	151449	10.000	ng		0.00
80) Bromochloromethane(sim)	5.352	130	117695	10.000	ng	#	0.02
95) 1,4-Difluorobenzene(sim)	7.284	114	331250	10.000	ng		0.01
105) Chlorobenzene-d5(sim)	10.870	82	151449	10.000	ng		0.00
System Monitoring Compounds							
62) % Bromofluorobenzene	12.348	95	227361	9.845	ppbv		0.01
Spiked Amount 10.000	Range 70 - 130		Recovery = 98.50%				
Target Compounds							Qvalue
3) Dichlorodifluoromethane	1.512	85	11492	0.447	ppbv		97
13) Trichlorofluoromethane	2.198	101	353071	9.428	ppbv		95
17) Methylene Chloride	3.217	49	14512	0.788	ppbv		89
33) Benzene	6.353	78	3005	0.140	ppbv	#	80
34) Carbon Tetrachloride	5.702	117	2656	0.080	ppbv		87
48) Toluene	9.097	91	13870	0.458	ppbv		97
52) Tetrachloroethene	9.559	166	2243	0.124	ppbv	#	83
57) m,p-Xylene	11.158	91	6290	0.195	ppbv		93
86) Benzene(sim)	6.356	78	3245	0.125	ppbv		97
87) Carbon Tetrachloride(sim)	5.712	117	3079m	0.096	ppbv		94
104) Tetrachloroethene(sim)	9.562	166	2418	0.129	ppbv		95
109) m,p-Xylene(sim)	11.158	91	6290	0.195	ppbv	#	93

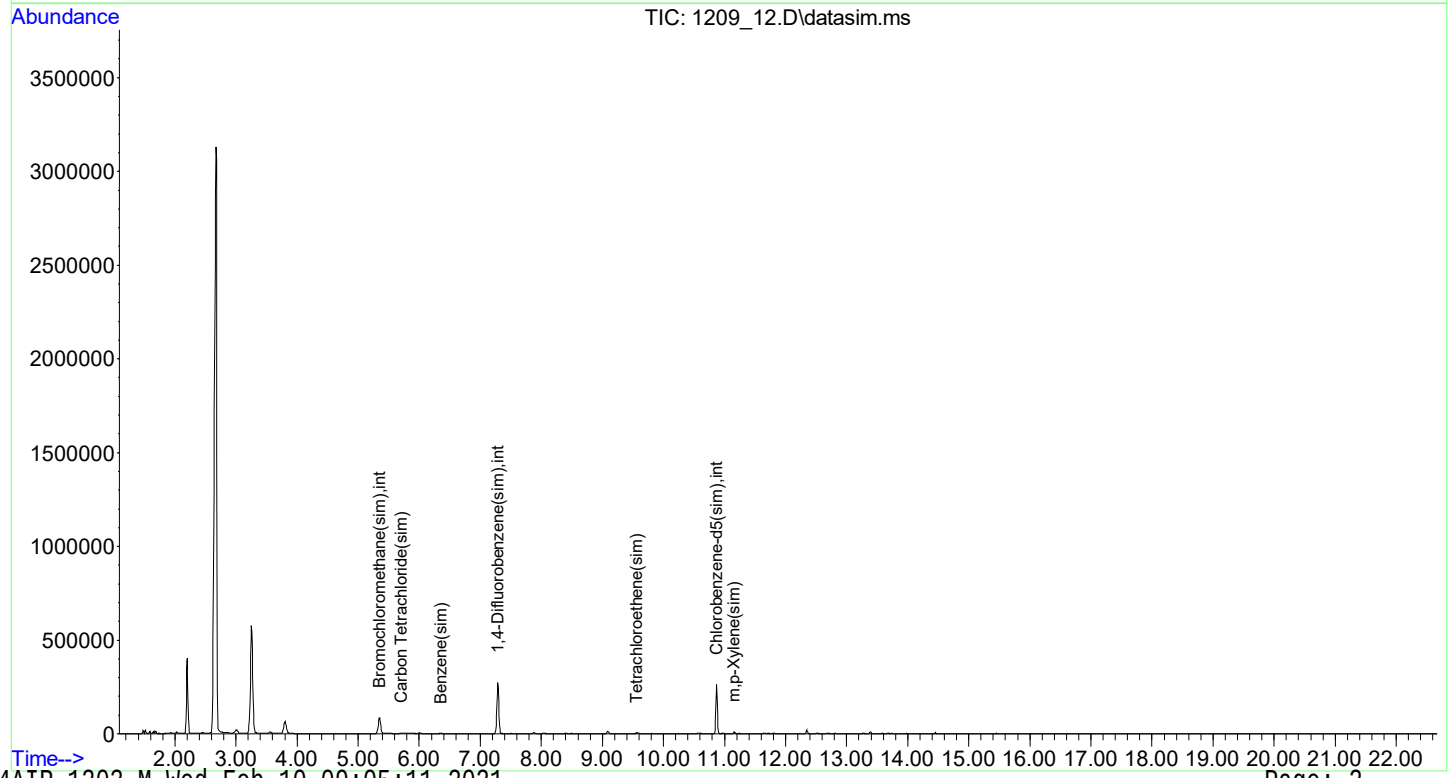
(#)out of range (m)manual integration reviewed by analyst (+)signals summed

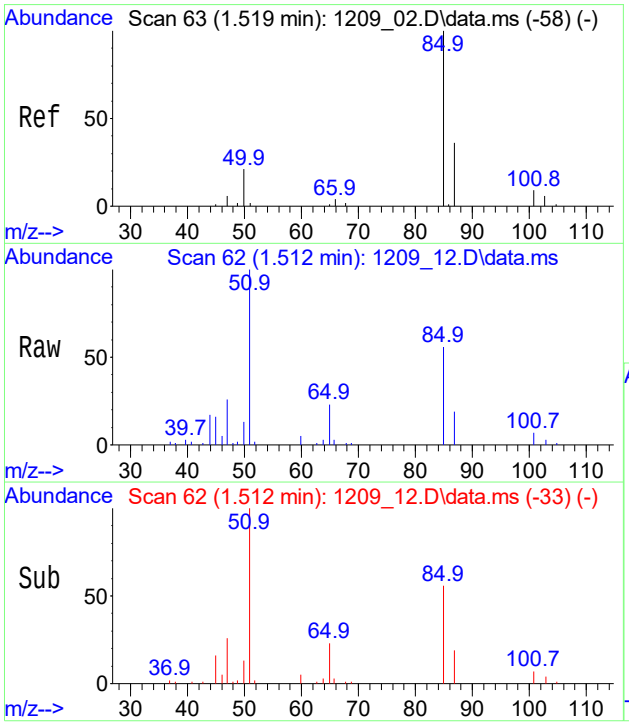
Quantitation Report (QT Reviewed)

Data Path : H:\AIR2020\CHEM24\12DEC\09\
Data File : 1209_12.D
Acq On : 9 Dec 2020 10:37 pm
Operator : Keith
Client ID : IA-3
Lab ID : CH28478
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Dec 10 08:53:05 2020
Quant Method : H:\AIR2020\CHEM24\METHODS\24AIR_1203.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Fri Dec 04 08:35:56 2020
Response via : Initial Calibration



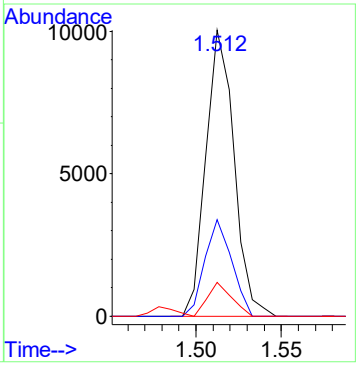


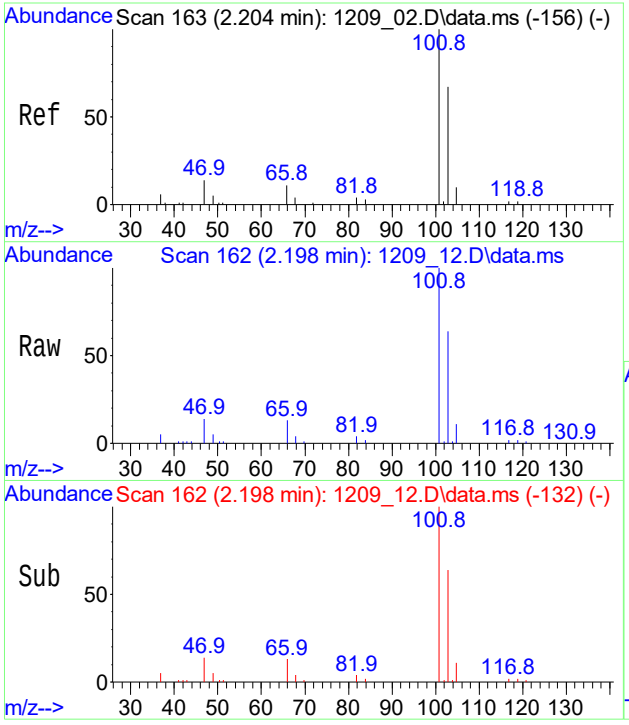


#3
Dichlorodifluoromethane
Conc: 8$ 0.447 ppbv
RT: 1.512 min Scan# 62
Delta R.T. 0.000 min
Lab File: 1209_12.D
Acq: 9 Dec 2020 10:37 pm

Tgt Ion: 85 Resp: 11492

Ion	Ratio	Lower	Upper
85	100		
87	32.2	24.5	36.7
101	10.1	8.6	12.8

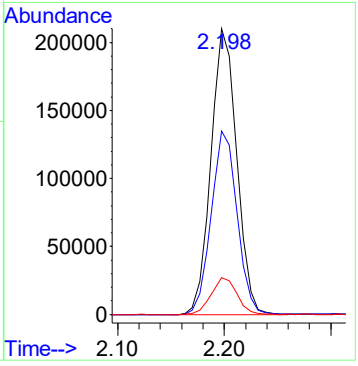


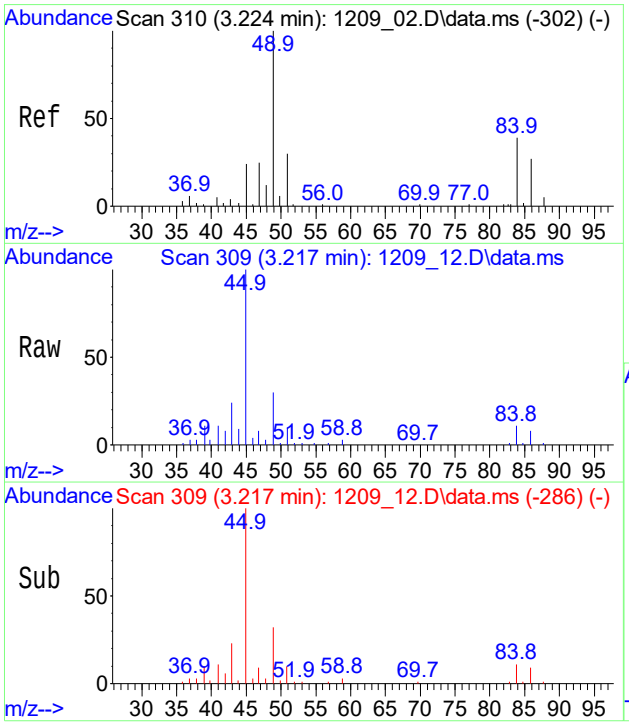


#13
Trichlorofluoromethane
Conc: 8$ 9.428 ppbv
RT: 2.198 min Scan# 162
Delta R.T. 0.007 min
Lab File: 1209_12.D
Acq: 9 Dec 2020 10:37 pm

Tgt Ion:101 Resp: 353071

Ion	Ratio	Lower	Upper
101	100		
103	64.5	54.5	81.7
66	12.9	12.7	19.1

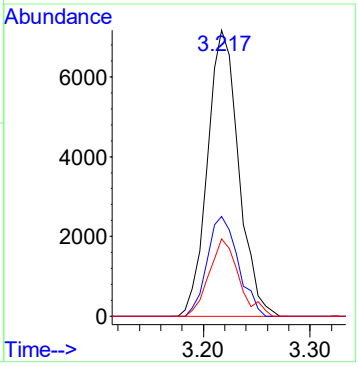


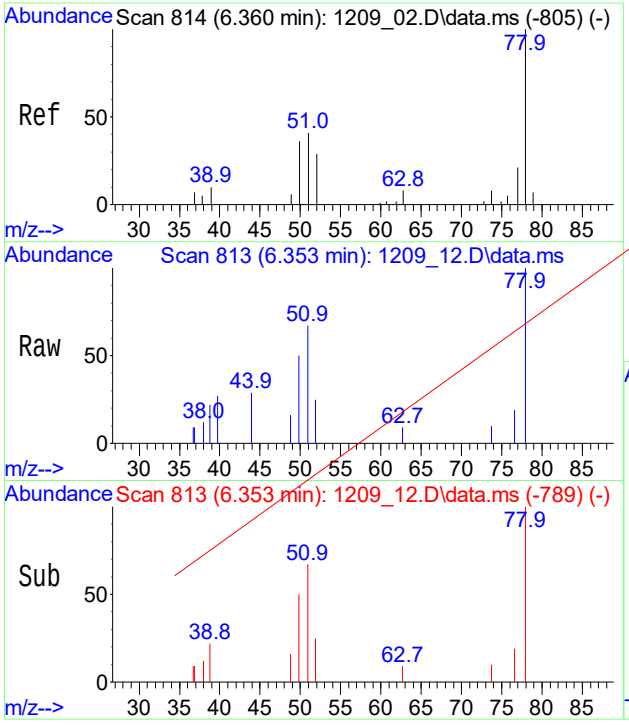


#17
Methylene Chloride
Conc: 8$ 0.788 ppbv
RT: 3.217 min Scan# 309
Delta R.T. 0.007 min
Lab File: 1209_12.D
Acq: 9 Dec 2020 10:37 pm

Tgt Ion: 49 Resp: 14512

Ion	Ratio	Lower	Upper
49	100		
84	34.6	34.6	51.8
86	25.7	23.4	35.2

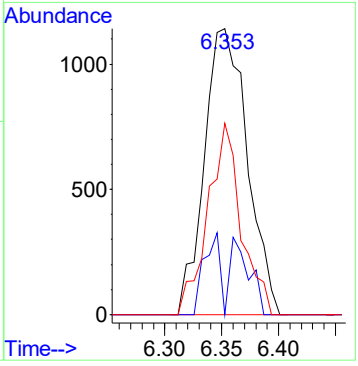


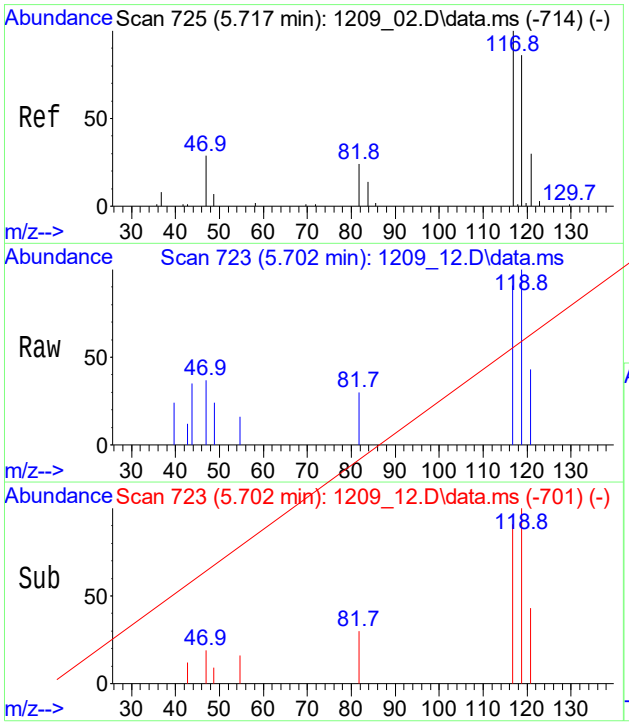


#33
Benzene
Conc: 8$ Below Cal
RT: 6.353 min Scan# 813
Delta R.T. 0.014 min
Lab File: 1209_12.D
Acq: 9 Dec 2020 10:37 pm

Tgt Ion: 78 Resp: 3005

Ion	Ratio	Lower	Upper
78	100		
77	11.9	22.7	34.1#
51	51.5	34.6	51.8

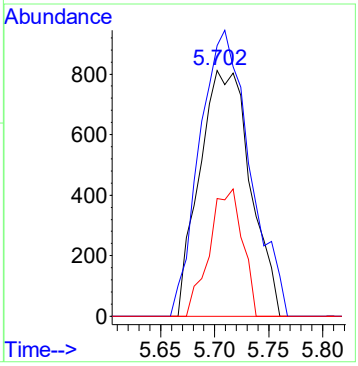


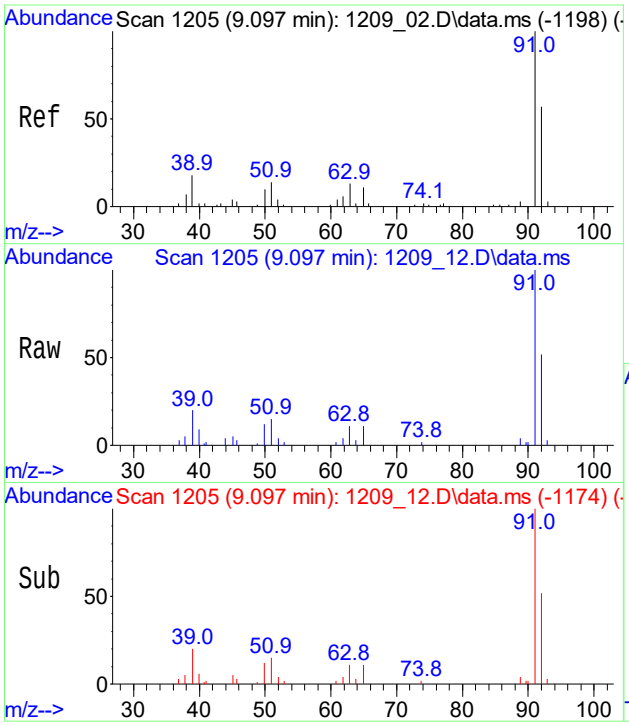


#34
Carbon Tetrachloride
Conc: 8$ Below Cal
RT: 5.702 min Scan# 723
Delta R.T. 0.007 min
Lab File: 1209_12.D
Acq: 9 Dec 2020 10:37 pm

Tgt Ion:117 Resp: 2656

Ion	Ratio	Lower	Upper
117	100		
119	114.8	78.5	118.5
121	33.6	11.7	51.7

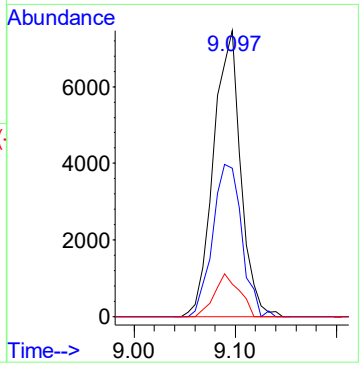


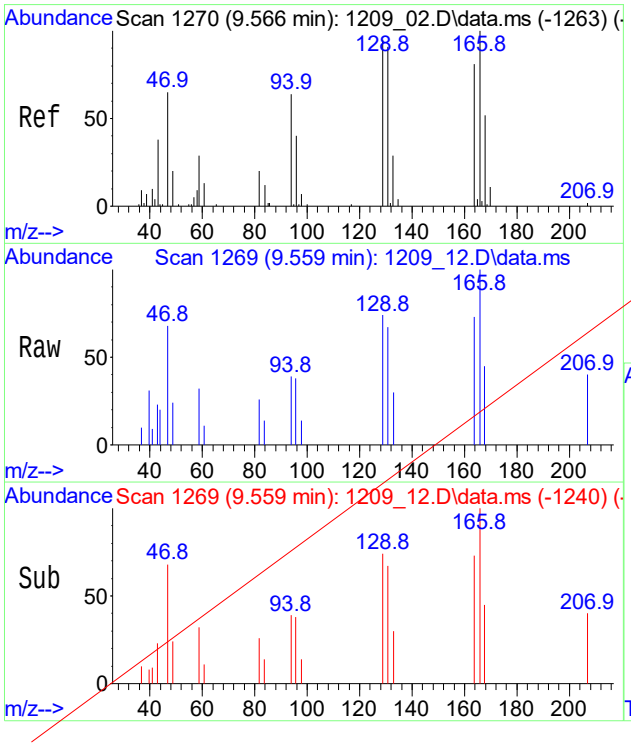


#48
Toluene
Conc: 8$ 0.458 ppbv
RT: 9.097 min Scan# 1205
Delta R.T. 0.022 min
Lab File: 1209_12.D
Acq: 9 Dec 2020 10:37 pm

Tgt Ion: 91 Resp: 13870

Ion	Ratio	Lower	Upper
91	100		
92	57.1	44.5	66.7
65	13.8	12.6	19.0

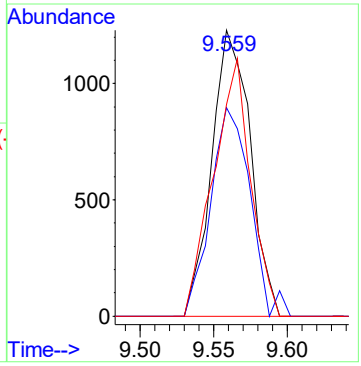


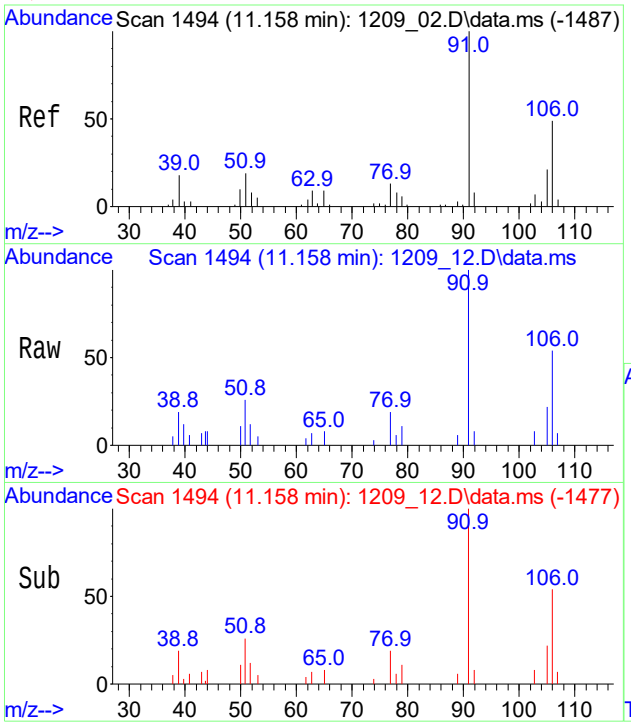


#52
Tetrachloroethene
Conc: 8$ Below Cal
RT: 9.559 min Scan# 1269
Delta R.T. 0.007 min
Lab File: 1209_12.D
Acq: 9 Dec 2020 10:37 pm

Tgt Ion:166 Resp: 2243

Ion	Ratio	Lower	Upper
166	100		
164	74.5	75.6	113.4#
129	86.8	80.0	120.0

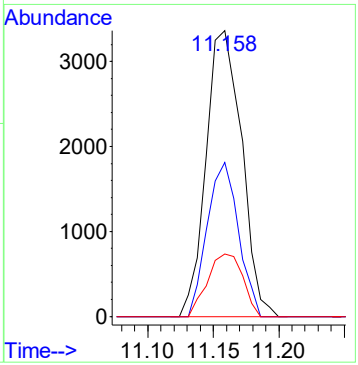


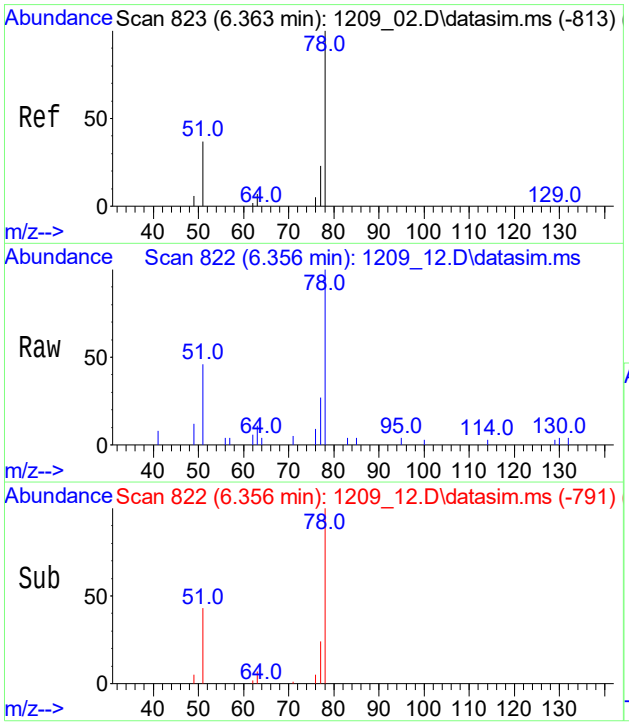


#57
m,p-Xylene
Conc: 8$ 0.195 ppbv
RT: 11.158 min Scan# 1494
Delta R.T. 0.014 min
Lab File: 1209_12.D
Acq: 9 Dec 2020 10:37 pm

Tgt Ion: 91 Resp: 6290

Ion	Ratio	Lower	Upper
91	100		
106	47.0	42.3	63.5
105	21.6	19.5	29.3

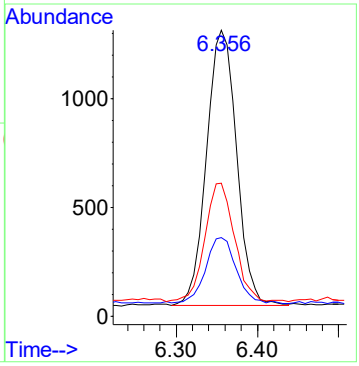


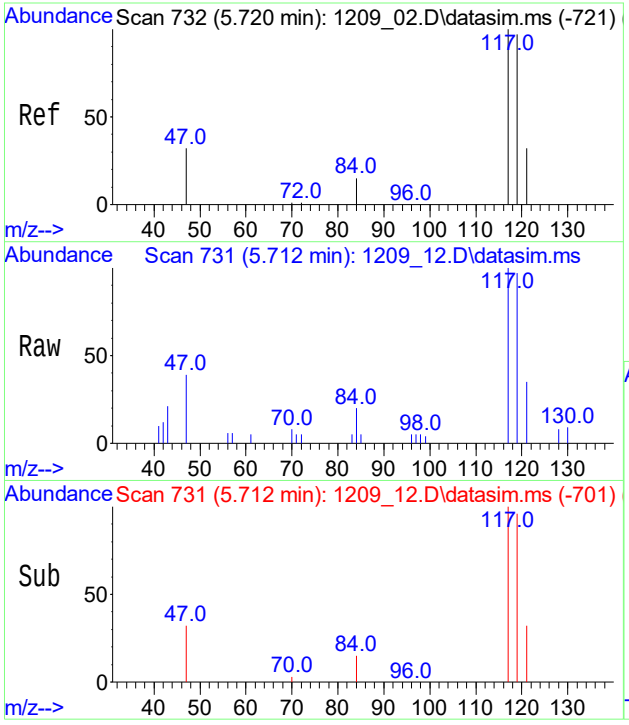


#86
Benzene(sim)
Conc: 8$ 0.125 ppbv
RT: 6.356 min Scan# 822
Delta R.T. 0.014 min
Lab File: 1209_12.D
Acq: 9 Dec 2020 10:37 pm

Tgt Ion: 78 Resp: 3245

Ion	Ratio	Lower	Upper
78	100		
77	24.5	20.0	30.0
51	41.9	31.8	47.6

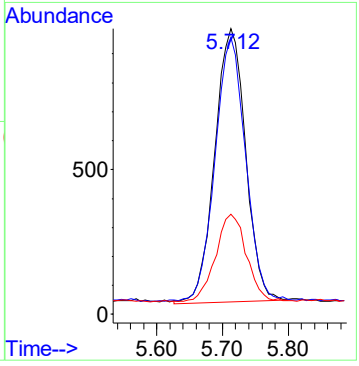


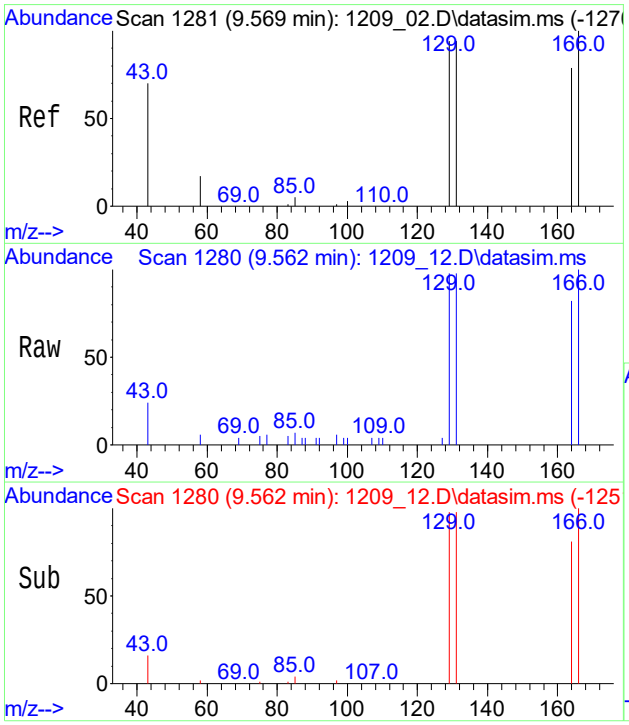


#87
Carbon Tetrachloride(sim)
Conc: 8$ 0.096 ppbv
RT: 5.712 min Scan# 731
Delta R.T. 0.017 min
Lab File: 1209_12.D
Acq: 9 Dec 2020 10:37 pm

Tgt Ion:117 Resp: 3079

Ion	Ratio	Lower	Upper
117	100		
119	88.5	86.8	130.2
121	27.2	24.0	36.0

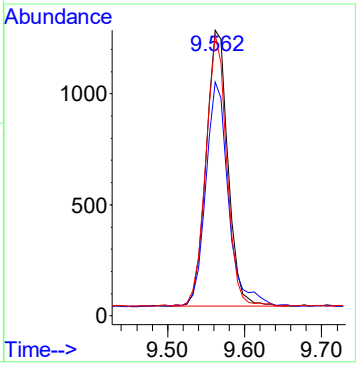


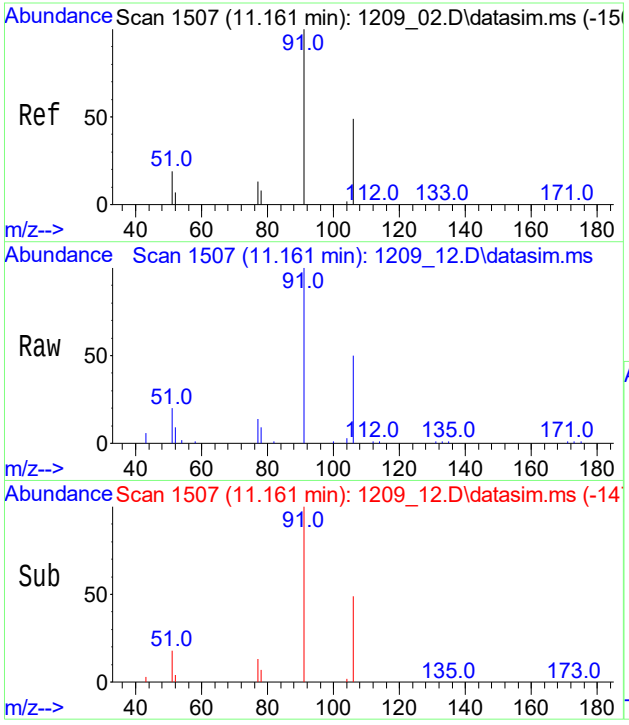


#104
Tetrachloroethene(sim)
Conc: 8$ 0.129 ppbv
RT: 9.562 min Scan# 1280
Delta R.T. 0.007 min
Lab File: 1209_12.D
Acq: 9 Dec 2020 10:37 pm

Tgt Ion:166 Resp: 2418

Ion	Ratio	Lower	Upper
166	100		
164	84.8	59.1	99.1
129	94.9	72.1	112.1

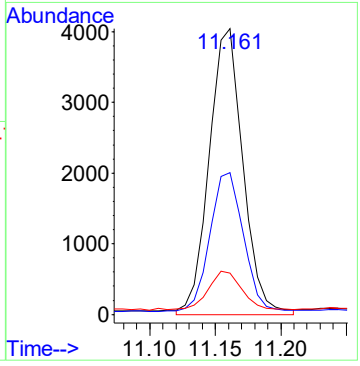




#109
m,p-Xylene(sim)
Conc: 8$ 0.195 ppbv
RT: 11.158 min Scan# 1507
Delta R.T. 0.014 min
Lab File: 1209_12.D
Acq: 9 Dec 2020 10:37 pm

Tgt Ion: 91 Resp: 6290

Ion	Ratio	Lower	Upper
91	100		
106	47.0	47.6	58.2#
77	15.2	13.0	19.6



Response Factor Report Chem24

Method Path : H:\AIR2020\CHEM24\METHODS\
Method File : 24AIR_1203.M
Title : VOA Standards for 5 point calibration
Last Update : Fri Dec 04 08:35:47 2020
Response Via : Initial Calibration

Calibration Files (Note: Curves (l,lf,q,qf) display calculated conc and corr. coefficient.)
.035=1203_04.D 0.05=1203_05.D 0.1 =1203_06.D 0.2 =1203_07.D 0.5 =1203_08.D 1.0 =1203_14.D 2.5 =1203_09.D 5.0 =1203_10.D
10 =1203_15.D 25 =1203_11.D 40 =1203_12.D 0.02=1203_03.D

	Compound	.035	0.05	0.1	0.2	0.5	1.0	2.5	5.0	10	25	40	0.02	Avg	%RSD
1)	Int Bromochloromethane	----------					ISTD								
3)	Dichlorodifluo...			2.575	2.508	1.990	2.413	2.064	2.705	2.460	2.131	1.721		2.285	14.15
6)	Vinyl Chloride			0.887	0.875	0.925	0.941	0.851	0.946	0.913	0.887	0.835		0.896	4.32
12)	Acetone				3.557	3.428	3.128	2.921	2.846	2.877	2.694	2.437		2.986	12.42
13)	Trichlorofluor...			3.348	3.118	3.462	3.379	3.420	3.548	3.353	3.283	3.018		3.325	4.99
16)	1,1-Dichloroet...			1.988	1.844	1.739	1.893	1.786	1.932	1.844	1.802	1.693		1.835	5.07
17)	Methylene Chlo...				1.709	1.705	1.608	1.640	1.729	1.627	1.603	1.462		1.635	5.22
21)	Trichlorotrifl...			2.331	2.105	2.207	2.215	2.142	2.266	2.144	2.072	1.987		2.163	4.82
26)	Cis-1,2-Dichlo...			1.415	1.127	1.070	1.188	1.178	1.206	1.207	1.199	1.153		1.194	7.88
32)	1,1,1-Trichlor...			2.230	2.491	2.412	2.368	2.358	2.447	2.364	2.352	2.225		2.361	3.75
33)	Benzene			2.175	1.861	1.814	1.937	1.862	1.890	1.898	1.870	1.828		1.904	5.68
34)	Carbon Tetrach...			2.898	3.084	3.002	2.821	2.951	3.049	2.973	3.010	2.810		2.955	3.24
36)	Int 1,4-Difluorobenzene	----------					ISTD								
39)	Trichloroethene			0.478	0.478	0.455	0.475	0.456	0.504	0.493	0.501	0.494		0.482	3.75
48)	Toluene			0.897	0.847	0.869	0.877	0.882	0.952	0.965	0.975	0.963		0.914	5.39
52)	Tetrachloroethene			0.492	0.525	0.552	0.512	0.538	0.563	0.565	0.581	0.577		0.545	5.58
53)	Int Chlorobenzene-d5	----------					ISTD								
55)	Chlorobenzene			2.075	1.842	1.934	1.920	1.887	1.934	1.953	1.970	1.977		1.944	3.33
56)	Ethylbenzene			2.747	2.713	2.710	2.691	2.753	2.816	2.893	2.971	2.860		2.795	3.44
57)	m,p-Xylene			1.950	2.121	2.118	1.709	2.177	2.193	2.310	2.346	2.271		2.133	9.29
61)	o-Xylene			2.038	2.101	2.099	2.158	2.163	2.227	2.357	2.437	2.365		2.216	6.29
62)	Surr% Bromofluorob...			1.465	1.470	1.505	1.495	1.524	1.553	1.549	1.590	1.572		1.525	2.90
71)	1,3-Dichlorobe...			1.922	1.960	2.012	1.897	1.893	1.923	2.018	2.113	2.031		1.974	3.75
72)	1,4-Dichlorobe...			1.782	1.844	1.821	1.848	1.844	1.887	1.952	2.076	1.956		1.890	4.77
75)	1,2-Dichlorobe...			1.454	1.602	1.631	1.507	1.599	1.581	1.669	1.709	1.638		1.599	4.92
77)	1,2,4-Trichlor...			0.730	0.696	0.793	0.854	0.830	0.806	0.882	1.033			0.828	12.44
80)	int Bromochloromethane...	----------					ISTD								
82)	Vinyl Chloride...	1.117	1.037	0.979	0.890	0.885	0.993	0.885	0.991					0.972	8.54
86)	Benzene(sim)	2.449	2.318	2.156	2.026	1.997	2.066	1.943					2.650	2.201	11.34
87)	Carbon Tetrach...	2.825	2.463	2.512	3.001	2.770	2.719	2.788	2.933				2.554	2.729	6.84
88)	1,1-Dichloroet...	1.996	1.971	1.903	1.801	1.818	1.903	1.821	1.975				2.113	1.922	5.31
92)	Cis-1,2-Dichlo...	1.409	1.423	1.319	1.313	1.276	1.380	1.353	1.434				1.455	1.374	4.50
95)	int 1,4-Difluorobenzen...	----------					ISTD								
98)	Trichloroethen...	0.513	0.528	0.517	0.501	0.502	0.499	0.496	0.543				0.525	0.514	3.10
104)	Tetrachloroeth...	0.549	0.573	0.576	0.557	0.565	0.546	0.563	0.599	0.597			0.544	0.567	3.46
105)	int Chlorobenzene-d5(sim)	----------					ISTD								
108)	Ethylbenzene(sim)	3.123	3.152	2.995	3.008	3.118	3.101	3.058					3.979	3.192	10.12

Method Path : H:\AIR2020\CHEM24\METHODS\
Method File : 24AIR_1203.M
Title : VOA Standards for 5 point calibration

109)	m,p-Xylene(sim)	2.095	2.218	1.950	2.121	2.118	2.137	2.179	2.195			2.127	3.90
116)	1,4-Dichlorobe...	2.325	2.149	2.002	1.983	2.134	2.041	2.080	2.128			2.105	5.14
121)	1,2,4-Trichlor...	0.722	0.747	0.702	0.696	0.798	0.844	0.831	0.801	1.287	0.825		22.00

(#,$,@)=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 | Client:
Lab Code: Phoenix | SDG No.: GCH28478
Instrument ID: CHEM24 | Calibration Date From: 12/03/20 17:56
Heated Purge (Y/N): Y | Calibration Date Thru: 12/03/20 22:33
GC Column: | Method File: 24AIR_1203.M

Laboratory File Ids

RRF1 1203_03.D RRF2 1203_04.D RRF3 1203_05.D RRF4 1203_06.D RRF5 1203_07.D RRF6 1203_08.D
RRF7 1203_14.D RRF8 1203_09.D RRF9 1203_10.D RRF10 1203_15.D RRF11 1203_11.D RRF12 1203_12.D

COMPOUND	RRF1 0.02	RRF2 0.035	RRF3 0.05	RRF4 0.1	RRF5 0.2	RRF6 0.5	RRF7 1	RRF8 2.5	RRF9 5	RRF10 10	RRF11 25	RRF12 40	_ RRF	% RSD
Dichlorodifluoromethane				2.575	2.508	1.990	2.413	2.064	2.705	2.460	2.131	1.721	2.285	14.15
Vinyl Chloride				0.887	0.875	0.925	0.941	0.851	0.946	0.913	0.887	0.835	0.896	4.32
Acetone					3.557	3.428	3.128	2.921	2.846	2.877	2.694	2.437	2.986	12.42
Trichlorofluoromethane				3.348	3.118	3.462	3.379	3.420	3.548	3.353	3.283	3.018	3.325	4.99
1,1-Dichloroethene				1.988	1.844	1.739	1.893	1.786	1.932	1.844	1.802	1.693	1.835	5.07
Methylene Chloride					1.709	1.705	1.608	1.640	1.729	1.627	1.603	1.462	1.635	5.22
Trichlorotrifluoroethane				2.331	2.105	2.207	2.215	2.142	2.266	2.144	2.072	1.987	2.163	4.82
Cis-1,2-Dichloroethene				1.415	1.127	1.070	1.188	1.178	1.206	1.207	1.199	1.153	1.194	7.88
1,1,1-Trichloroethane				2.230	2.491	2.412	2.368	2.358	2.447	2.364	2.352	2.225	2.361	3.75
Benzene				2.175	1.861	1.814	1.937	1.862	1.890	1.898	1.870	1.828	1.904	5.68
Carbon Tetrachloride				2.898	3.084	3.002	2.821	2.951	3.049	2.973	3.010	2.810	2.955	3.24
Trichloroethene				0.478	0.478	0.455	0.475	0.456	0.504	0.493	0.501	0.494	0.482	3.75
Toluene				0.897	0.847	0.869	0.877	0.882	0.952	0.965	0.975	0.963	0.914	5.39
Tetrachloroethene				0.492	0.525	0.552	0.512	0.538	0.563	0.565	0.581	0.577	0.545	5.58
Chlorobenzene				2.075	1.842	1.934	1.920	1.887	1.934	1.953	1.970	1.977	1.944	3.33
Ethylbenzene				2.747	2.713	2.710	2.691	2.753	2.816	2.893	2.971	2.860	2.795	3.44
m,p-Xylene				1.950	2.121	2.118	1.709	2.177	2.193	2.310	2.346	2.271	2.133	9.29
o-Xylene				2.038	2.101	2.099	2.158	2.163	2.227	2.357	2.437	2.365	2.216	6.29
1,3-Dichlorobenzene				1.922	1.960	2.012	1.897	1.893	1.923	2.018	2.113	2.031	1.974	3.75
1,4-Dichlorobenzene				1.782	1.844	1.821	1.848	1.844	1.887	1.952	2.076	1.956	1.890	4.77
1,2-Dichlorobenzene				1.454	1.602	1.631	1.507	1.599	1.581	1.669	1.709	1.638	1.599	4.92
1,2,4-Trichlorobenzene				0.730	0.696	0.793	0.854	0.830	0.806	0.882	1.033		0.828	12.44
Vinyl Chloride(sim)		1.117	1.037	0.979	0.890	0.885	0.993	0.885	0.991				0.972	8.54
Benzene(sim)	2.650	2.449	2.318	2.156	2.026	1.997	2.066	1.943					2.201	11.34
Carbon Tetrachloride(sim)	2.554	2.825	2.463	2.512	3.001	2.770	2.719	2.788	2.933				2.729	6.84

(#) 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

Lab Name: Phoenix Environmental Labs
Client:
Lab Code: Phoenix
SDG No.: GCH28478
Instrument ID: CHEM24
Calibration Date From: 12/03/20 17:56
Heated Purge (Y/N): Y
Calibration Date Thru: 12/03/20 22:33
GC Column:
Method File: 24AIR_1203.M

Laboratory File Ids

RRF1 1203_03.D RRF2 1203_04.D RRF3 1203_05.D RRF4 1203_06.D RRF5 1203_07.D RRF6 1203_08.D
RRF7 1203_14.D RRF8 1203_09.D RRF9 1203_10.D RRF10 1203_15.D RRF11 1203_11.D RRF12 1203_12.D

COMPOUND	RRF1 0.02	RRF2 0.035	RRF3 0.05	RRF4 0.1	RRF5 0.2	RRF6 0.5	RRF7 1	RRF8 2.5	RRF9 5	RRF10 10	RRF11 25	RRF12 40	$\overline{RRF}$	% RSD
1,1-Dichloroethene(sim)	2.113	1.996	1.971	1.903	1.801	1.818	1.903	1.821	1.975				1.922	5.31
Cis-1,2-Dichloroethene(sim)	1.455	1.409	1.423	1.319	1.313	1.276	1.380	1.353	1.434				1.374	4.50
Trichloroethene(sim)	0.525	0.513	0.528	0.517	0.501	0.502	0.499	0.496	0.543				0.514	3.10
Tetrachloroethene(sim)	0.544	0.549	0.573	0.576	0.557	0.565	0.546	0.563	0.599	0.597			0.567	3.46
Ethylbenzene(sim)	3.979	3.123	3.152	2.995	3.008	3.118	3.101	3.058					3.192	10.12
m,p-Xylene(sim)		2.095	2.218	1.950	2.121	2.118	2.137	2.179	2.195				2.127	3.90
1,4-Dichlorobenzene(sim)		2.325	2.149	2.002	1.983	2.134	2.041	2.080	2.128				2.105	5.14
1,2,4-Trichlorobenzene(sim)	1.287	0.722	0.747	0.702	0.696	0.798	0.844	0.831	0.801				0.825	22.00
% Bromofluorobenzene				1.465	1.470	1.505	1.495	1.524	1.553	1.549	1.590	1.572	1.525	2.90

(#) 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

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2020\CHEM24\12DEC\03\
Data File : 1203_03.D
Acq On : 3 Dec 2020 3:48 pm
Operator : Keith
Client ID : ICAL 0.02
Lab ID : 0.02
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 04 08:32:45 2020
Quant Method : H:\AIR2020\CHEM24\METHODS\24AIR_1203.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Fri Dec 04 08:31:04 2020
Response via : Initial Calibration

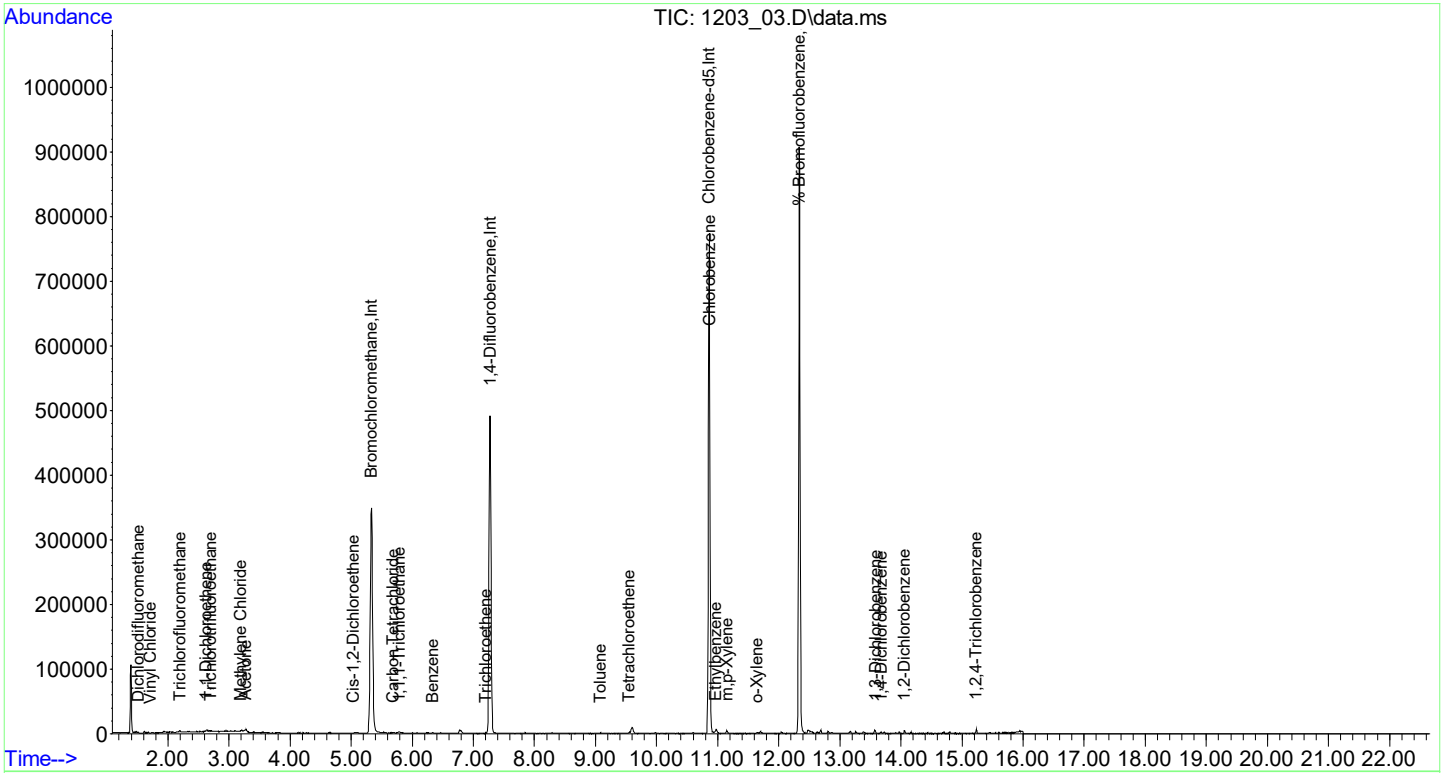
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	5.335	130	153700	10.000	ng		0.00
36) 1,4-Difluorobenzene	7.277	114	449317	10.000	ng		0.00
53) Chlorobenzene-d5	10.863	82	189618	10.000	ng		0.00
80) Bromochloromethane(sim)	5.330	130	161140	10.000	ng	#	0.00
95) 1,4-Difluorobenzene(sim)	7.277	114	449317	10.000	ng		0.00
105) Chlorobenzene-d5(sim)	10.863	82	189618	10.000	ng		0.00
System Monitoring Compounds							
62) % Bromofluorobenzene	12.335	95	283228	9.748	ppbv		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	97.50%			
Target Compounds							Qvalue
3) Dichlorodifluoromethane	1.512	85	1228	0.035	ppbv	#	89
6) Vinyl Chloride	1.718	62	388	0.028	ppbv		67
12) Acetone	3.279	43	3641	0.079	ppbv	#	89
13) Trichlorofluoromethane	2.197	101	1119	0.022	ppbv	#	95
16) 1,1-Dichloroethene	2.629	61	807	0.029	ppbv	#	83
17) Methylene Chloride	3.196	49	942	0.037	ppbv	#	89
21) Trichlorotrifluoroethane	2.704	101	751	0.023	ppbv	#	84
26) Cis-1,2-Dichloroethene	5.032	61	469	0.026	ppbv	#	44
32) 1,1,1-Trichloroethane	5.789	97	685	0.019	ppbv	#	65
33) Benzene	6.339	78	858	0.029	ppbv	#	75
34) Carbon Tetrachloride	5.688	117	411	0.009	ppbv	#	6
39) Trichloroethene	7.202	130	421	0.019	ppbv	#	39
48) Toluene	9.082	91	725	0.018	ppbv	#	92
52) Tetrachloroethene	9.551	166	391	0.016	ppbv		92
55) Chlorobenzene	10.870	112	980	0.027	ppbv	#	1
56) Ethylbenzene	10.966	91	1287	0.024	ppbv		87
57) m,p-Xylene	11.152	91	2234	0.055	ppbv		98
61) o-Xylene	11.652	91	1300	0.031	ppbv	#	85
71) 1,3-Dichlorobenzene	13.581	146	1077	0.029	ppbv		92
72) 1,4-Dichlorobenzene	13.678	146	953	0.027	ppbv	#	91
75) 1,2-Dichlorobenzene	14.061	146	898	0.030	ppbv		89
77) 1,2,4-Trichlorobenzene	15.232	180	326	0.021	ppbv	#	79
82) Vinyl Chloride(sim)	1.721	62	424	0.027	ppbv		91
86) Benzene(sim)	6.342	78	854	0.024	ppbv		98
87) Carbon Tetrachloride(sim)	5.698	117	823m	0.019	ppbv		12
88) 1,1-Dichloroethene(sim)	2.632	61	681	0.022	ppbv		92
92) Cis-1,2-Dichloroethene...	5.028	61	469	0.021	ppbv	#	67
98) Trichloroethene(sim)	7.212	130	472	0.020	ppbv		98
104) Tetrachloroethene(sim)	9.554	166	489	0.019	ppbv		93
108) Ethylbenzene(sim)	10.962	91	1509	0.025	ppb	#	96
109) m,p-Xylene(sim)	11.152	91	2234	0.055	ppbv	#	92
116) 1,4-Dichlorobenzene(sim)	13.675	146	1186	0.030	ppbv		99
121) 1,2,4-Trichlorobenzene...	15.225	180	488m	0.031	ppbv		80

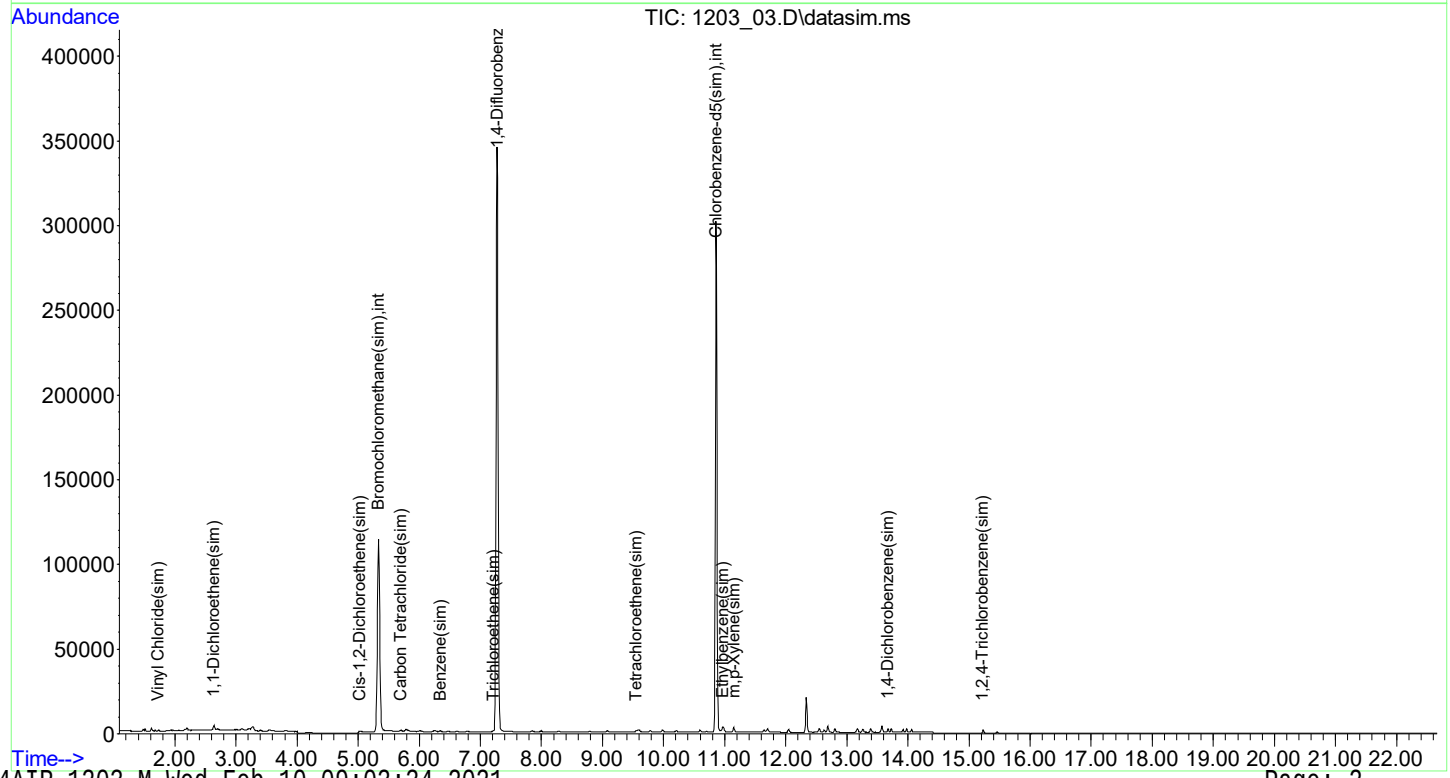
(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2020\CHEM24\12DEC\03\
Data File : 1203_03.D
Acq On : 3 Dec 2020 3:48 pm
Operator : Keith
Client ID : ICAL 0.02
Lab ID : 0.02
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 04 08:32:45 2020
Quant Method : H:\AIR2020\CHEM24\METHODS\24AIR_1203.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Fri Dec 04 08:31:04 2020
Response via : Initial Calibration





Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2020\CHEM24\12DEC\03\
Data File : 1203_04.D
Acq On : 3 Dec 2020 4:19 pm
Operator : Keith
Client ID : ICAL 0.035
Lab ID : 0.035
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Dec 04 08:34:29 2020
Quant Method : H:\AIR2020\CHEM24\METHODS\24AIR_1203.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Fri Dec 04 08:32:53 2020
Response via : Initial Calibration

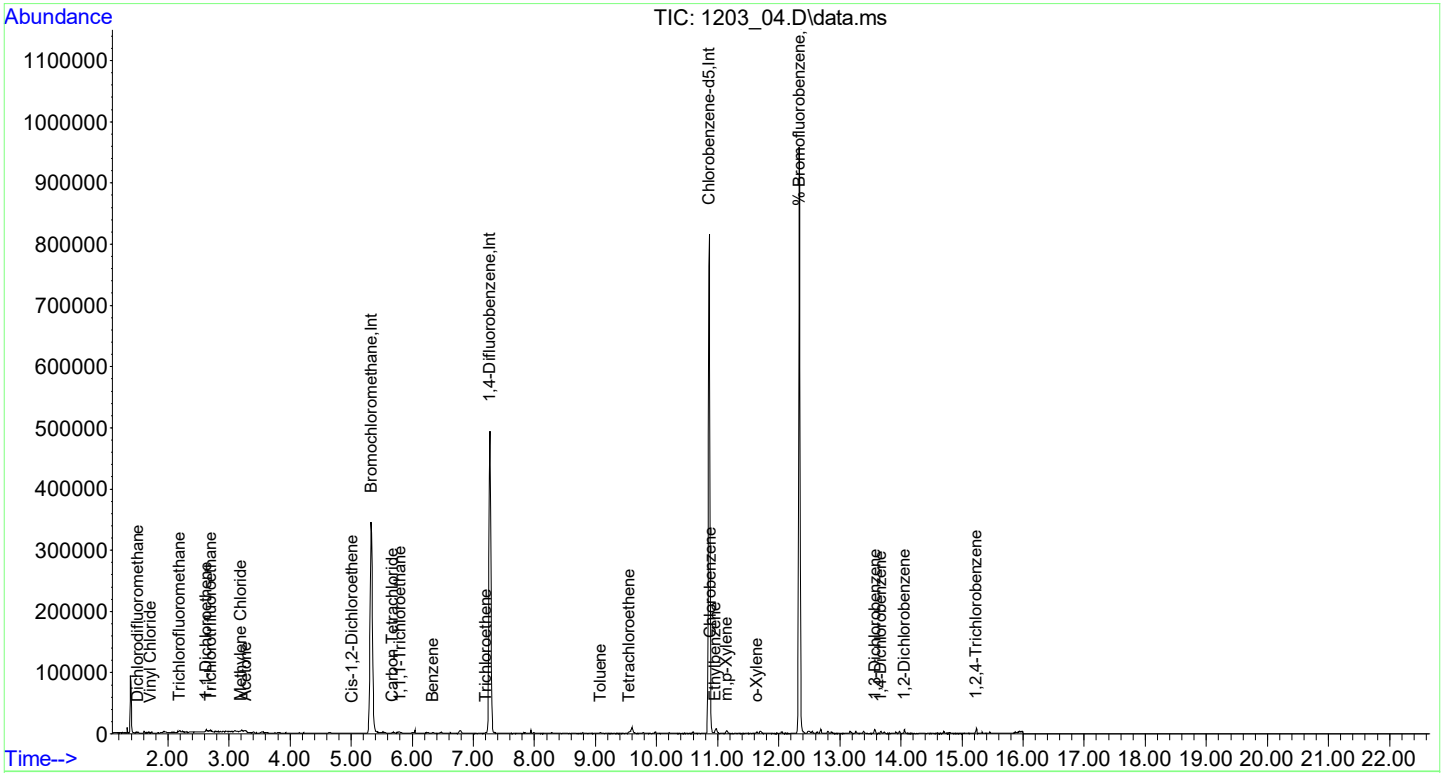
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	5.328	130	152742	10.000	ng		0.00
36) 1,4-Difluorobenzene	7.271	114	448707	10.000	ng		0.00
53) Chlorobenzene-d5	10.863	82	198345	10.000	ng		0.00
80) Bromochloromethane(sim)	5.330	130	158776	10.000	ng	#	0.00
95) 1,4-Difluorobenzene(sim)	7.271	114	448707	10.000	ng		0.00
105) Chlorobenzene-d5(sim)	10.863	82	198345	10.000	ng		0.00
System Monitoring Compounds							
62) % Bromofluorobenzene	12.335	95	291706	9.598	ppbv		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	96.00%			
Target Compounds							Qvalue
3) Dichlorodifluoromethane	1.506	85	1478	0.042	ppbv		99
6) Vinyl Chloride	1.711	62	556	0.041	ppbv		87
12) Acetone	3.279	43	4272	0.094	ppbv#		86
13) Trichlorofluoromethane	2.191	101	1815	0.036	ppbv#		96
16) 1,1-Dichloroethene	2.629	61	1184	0.042	ppbv		98
17) Methylene Chloride	3.197	49	1358	0.054	ppbv		97
21) Trichlorotrifluoroethane	2.697	101	1113	0.034	ppbv#		66
26) Cis-1,2-Dichloroethene	5.018	61	705	0.039	ppbv#		54
32) 1,1,1-Trichloroethane	5.796	97	1323	0.037	ppbv#		71
33) Benzene	6.332	78	1278	0.044	ppbv		98
34) Carbon Tetrachloride	5.674	117	576	0.013	ppbv#		65
39) Trichloroethene	7.209	130	751	0.035	ppbv#		64
48) Toluene	9.082	91	1505	0.037	ppbv		91
52) Tetrachloroethene	9.551	166	837	0.034	ppbv#		81
55) Chlorobenzene	10.884	112	1370	0.036	ppbv#		61
56) Ethylbenzene	10.959	91	2021	0.036	ppbv		75
57) m,p-Xylene	11.145	91	2909	0.069	ppbv		97
61) o-Xylene	11.639	91	1491	0.034	ppbv#		89
71) 1,3-Dichlorobenzene	13.574	146	1486	0.038	ppbv#		90
72) 1,4-Dichlorobenzene	13.672	146	1545	0.041	ppbv#		84
75) 1,2-Dichlorobenzene	14.061	146	1340	0.042	ppbv#		86
77) 1,2,4-Trichlorobenzene	15.232	180	501	0.031	ppbv#		82
82] Vinyl Chloride(sim)	1.714	62	621	0.040	ppbv		94
86] Benzene(sim)	6.342	78	1361	0.039	ppbv		98
87] Carbon Tetrachloride(sim)	5.691	117	1570m	0.036	ppbv		1
88] 1,1-Dichloroethene(sim)	2.625	61	1109	0.036	ppbv		97
92] Cis-1,2-Dichloroethene...	5.020	61	783	0.036	ppbv#		84
98] Trichloroethene(sim)	7.212	130	805	0.035	ppbv		94
104] Tetrachloroethene(sim)	9.554	166	862	0.034	ppbv		94
108] Ethylbenzene(sim)	10.962	91	2168	0.034	ppb #		97
109] m,p-Xylene(sim)	11.145	91	2909	0.069	ppbv#		92
116] 1,4-Dichlorobenzene(sim)	13.675	146	1614	0.039	ppbv		98
121] 1,2,4-Trichlorobenzene...	15.232	180	501	0.031	ppbv#		71

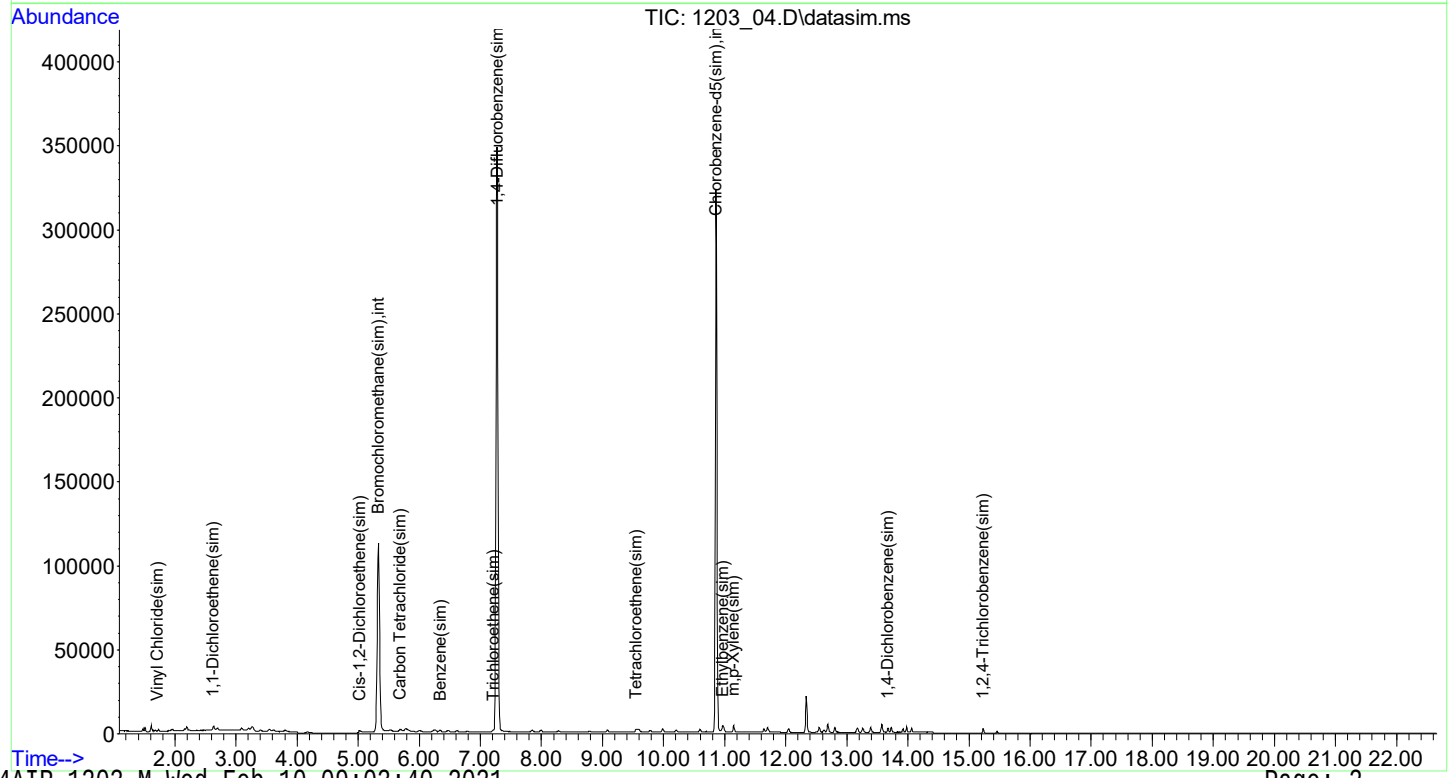
(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2020\CHEM24\12DEC\03\
Data File : 1203_04.D
Acq On : 3 Dec 2020 4:19 pm
Operator : Keith
Client ID : ICAL 0.035
Lab ID : 0.035
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Dec 04 08:34:29 2020
Quant Method : H:\AIR2020\CHEM24\METHODS\24AIR_1203.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Fri Dec 04 08:32:53 2020
Response via : Initial Calibration





Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2020\CHEM24\12DEC\03\
Data File : 1203_05.D
Acq On : 3 Dec 2020 4:51 pm
Operator : Keith
Client ID : ICAL 0.05
Lab ID : 0.05
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Dec 04 08:35:14 2020
Quant Method : H:\AIR2020\CHEM24\METHODS\24AIR_1203.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Fri Dec 04 08:34:45 2020
Response via : Initial Calibration

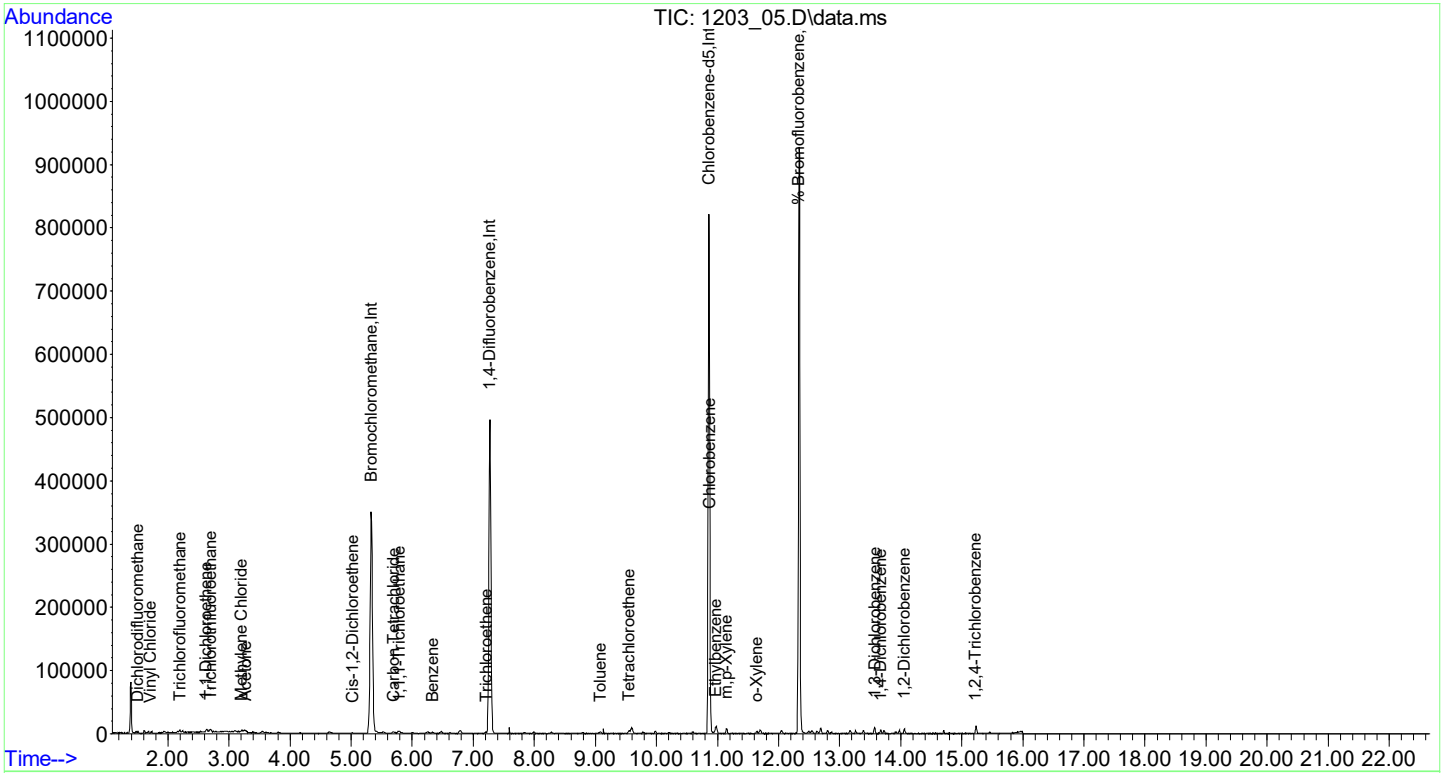
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	5.327	130	150392	10.000	ng		0.00
36) 1,4-Difluorobenzene	7.270	114	441431	10.000	ng		0.00
53) Chlorobenzene-d5	10.863	82	196635	10.000	ng		0.00
80) Bromochloromethane(sim)	5.330	130	156861	10.000	ng	#	0.00
95) 1,4-Difluorobenzene(sim)	7.270	114	441431	10.000	ng		0.00
105) Chlorobenzene-d5(sim)	10.863	82	196635	10.000	ng		0.00
System Monitoring Compounds							
62) % Bromofluorobenzene	12.335	95	285729	9.483	ppbv		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	94.80%			
Target Compounds							Qvalue
3) Dichlorodifluoromethane	1.506	85	2037	0.059	ppbv		99
6) Vinyl Chloride	1.718	62	769	0.057	ppbv#		42
12) Acetone	3.272	43	5115	0.114	ppbv		96
13) Trichlorofluoromethane	2.197	101	2482	0.050	ppbv		97
16) 1,1-Dichloroethene	2.629	61	1538	0.056	ppbv#		86
17) Methylene Chloride	3.203	49	1668	0.068	ppbv		95
21) Trichlorotrifluoroethane	2.697	101	2058	0.063	ppbv#		72
26) Cis-1,2-Dichloroethene	5.025	61	1032	0.057	ppbv#		71
32) 1,1,1-Trichloroethane	5.796	97	1952	0.055	ppbv#		74
33) Benzene	6.339	78	1606	0.056	ppbv#		88
34) Carbon Tetrachloride	5.695	117	2215	0.050	ppbv#		29
39) Trichloroethene	7.216	130	1010	0.048	ppbv		91
48) Toluene	9.082	91	2252	0.056	ppbv#		99
52) Tetrachloroethene	9.551	166	1046	0.043	ppbv#		81
55) Chlorobenzene	10.877	112	1914	0.050	ppbv#		66
56) Ethylbenzene	10.966	91	2646	0.048	ppbv		83
57) m,p-Xylene	11.145	91	4362	0.104	ppbv		99
61) o-Xylene	11.639	91	2236	0.051	ppbv		95
71) 1,3-Dichlorobenzene	13.574	146	1934	0.050	ppbv		92
72) 1,4-Dichlorobenzene	13.672	146	2099	0.056	ppbv		91
75) 1,2-Dichlorobenzene	14.061	146	1701	0.054	ppbv#		90
77) 1,2,4-Trichlorobenzene	15.222	180	734	0.045	ppbv		87
82) Vinyl Chloride(sim)	1.714	62	813	0.053	ppbv		98
86) Benzene(sim)	6.342	78	1818	0.053	ppbv		98
87) Carbon Tetrachloride(sim)	5.695	117	1932	0.045	ppbv#		63
88) 1,1-Dichloroethene(sim)	2.632	61	1546	0.051	ppbv		97
92) Cis-1,2-Dichloroethene...	5.020	61	1116	0.052	ppbv		94
98) Trichloroethene(sim)	7.205	130	1165	0.051	ppbv		98
104) Tetrachloroethene(sim)	9.554	166	1264	0.051	ppbv		99
108) Ethylbenzene(sim)	10.962	91	3099	0.049	ppb		99
109) m,p-Xylene(sim)	11.145	91	4362	0.104	ppbv#		97
116) 1,4-Dichlorobenzene(sim)	13.675	146	2113	0.051	ppbv		99
121) 1,2,4-Trichlorobenzene...	15.222	180	734	0.045	ppbv#		75

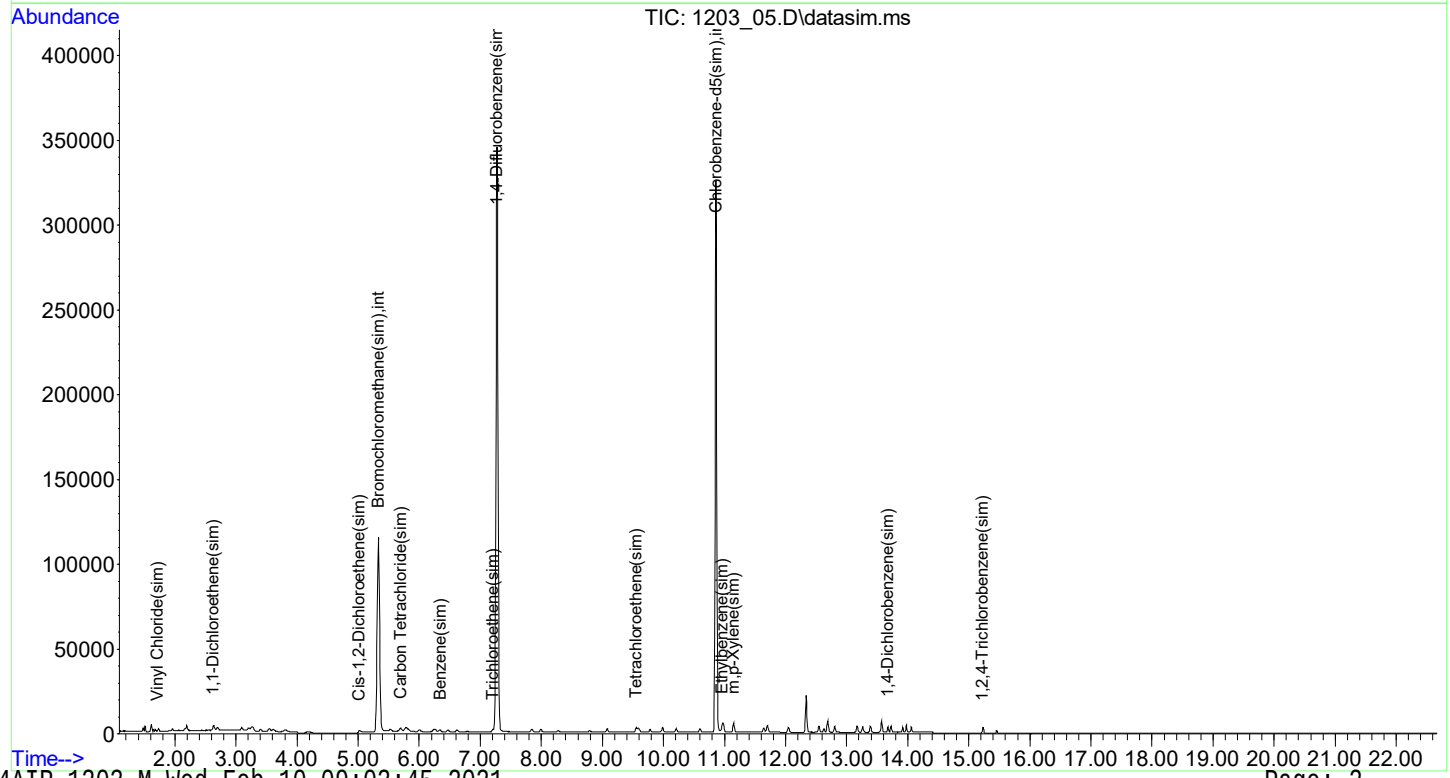
(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2020\CHEM24\12DEC\03\
Data File : 1203_05.D
Acq On : 3 Dec 2020 4:51 pm
Operator : Keith
Client ID : ICAL 0.05
Lab ID : 0.05
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Dec 04 08:35:14 2020
Quant Method : H:\AIR2020\CHEM24\METHODS\24AIR_1203.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Fri Dec 04 08:34:45 2020
Response via : Initial Calibration





Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2020\CHEM24\12DEC\03\
Data File : 1203_06.D
Acq On : 3 Dec 2020 5:23 pm
Operator : Keith
Client ID : ICAL 0.1
Lab ID : 0.10
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Dec 04 08:35:35 2020
Quant Method : H:\AIR2020\CHEM24\METHODS\24AIR_1203.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Fri Dec 04 08:35:24 2020
Response via : Initial Calibration

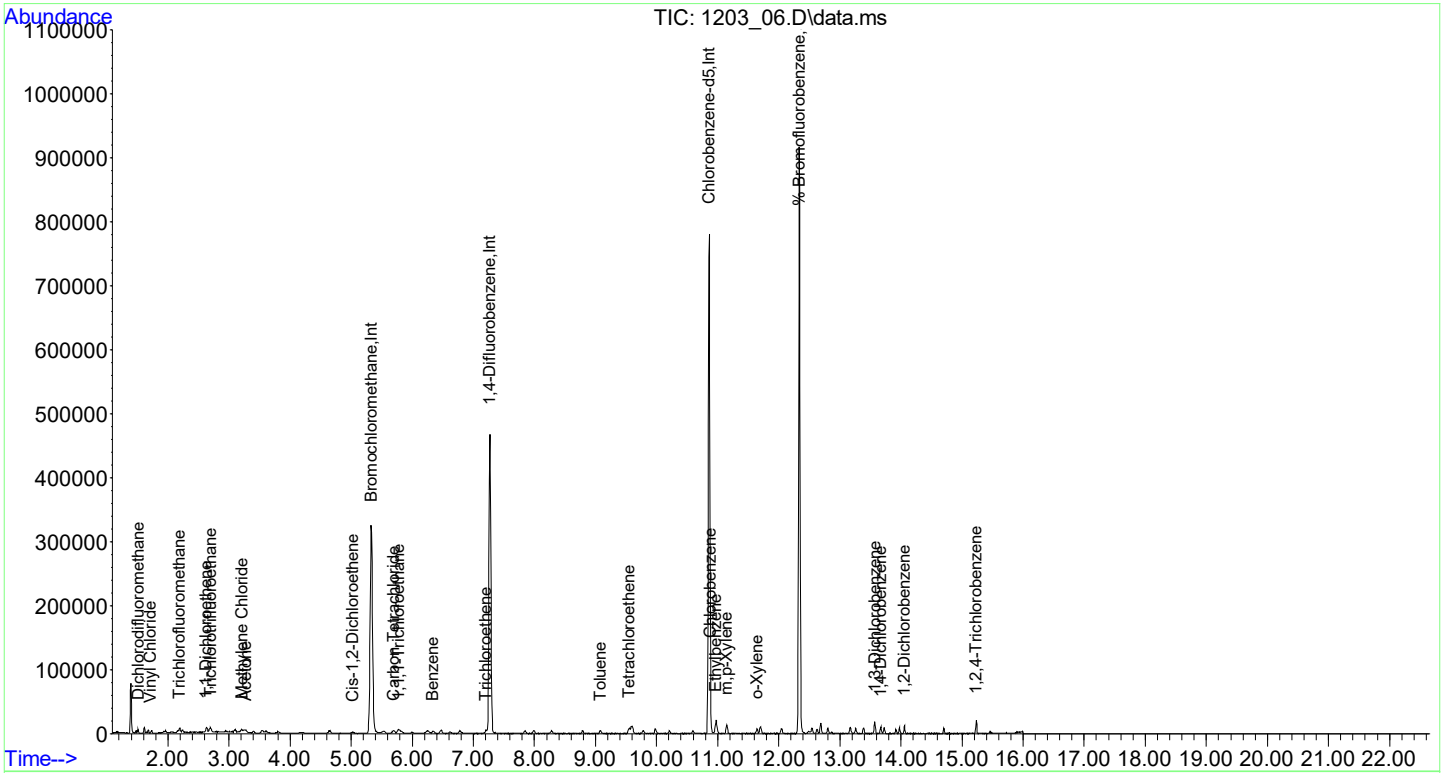
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	5.335	130	138423	10.000	ng		0.00
36) 1,4-Difluorobenzene	7.270	114	413771	10.000	ng		0.00
53) Chlorobenzene-d5	10.863	82	187093	10.000	ng		0.00
80) Bromochloromethane(sim)	5.330	130	146907	10.000	ng	#	0.00
95) 1,4-Difluorobenzene(sim)	7.270	114	413771	10.000	ng		0.00
105) Chlorobenzene-d5(sim)	10.863	82	187093	10.000	ng		0.00
System Monitoring Compounds							
62) % Bromofluorobenzene	12.335	95	274119	9.562	ppbv		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	95.60%			
Target Compounds							Qvalue
3) Dichlorodifluoromethane	1.512	85	3565	0.113	ppbv		98
6) Vinyl Chloride	1.711	62	1228	0.099	ppbv		90
12) Acetone	3.279	43	6538	0.158	ppbv		96
13) Trichlorofluoromethane	2.191	101	4635	0.101	ppbv		97
16) 1,1-Dichloroethene	2.622	61	2752	0.108	ppbv		96
17) Methylene Chloride	3.210	49	2512	0.111	ppbv#		86
21) Trichlorotrifluoroethane	2.697	101	3227	0.108	ppbv#		85
26) Cis-1,2-Dichloroethene	5.025	61	1958	0.119	ppbv#		67
32) 1,1,1-Trichloroethane	5.782	97	3087	0.094	ppbv#		68
33) Benzene	6.339	78	3011	0.114	ppbv		97
34) Carbon Tetrachloride	5.695	117	4011	0.098	ppbv		89
39) Trichloroethene	7.202	130	1979	0.099	ppbv		93
48) Toluene	9.075	91	3710	0.098	ppbv#		88
52) Tetrachloroethene	9.551	166	2035	0.090	ppbv		94
55) Chlorobenzene	10.884	112	3882	0.107	ppbv#		40
56) Ethylbenzene	10.966	91	5139	0.098	ppbv		93
57) m,p-Xylene	11.145	91	7297	0.183	ppbv		92
61) o-Xylene	11.646	91	3813	0.092	ppbv		98
71) 1,3-Dichlorobenzene	13.574	146	3595	0.097	ppbv		98
72) 1,4-Dichlorobenzene	13.672	146	3334	0.094	ppbv		93
75) 1,2-Dichlorobenzene	14.061	146	2720	0.091	ppbv		97
77) 1,2,4-Trichlorobenzene	15.227	180	1365	0.088	ppbv		94
82) Vinyl Chloride(sim)	1.714	62	1438	0.101	ppbv		99
86) Benzene(sim)	6.342	78	3167	0.098	ppbv		100
87) Carbon Tetrachloride(sim)	5.695	117	3690	0.092	ppbv#		40
88) 1,1-Dichloroethene(sim)	2.632	61	2796	0.099	ppbv		98
92) Cis-1,2-Dichloroethene...	5.020	61	1937	0.096	ppbv#		86
98) Trichloroethene(sim)	7.212	130	2141	0.101	ppbv		97
104) Tetrachloroethene(sim)	9.554	166	2382	0.102	ppbv		98
108) Ethylbenzene(sim)	10.962	91	5603	0.094	ppb		99
109) m,p-Xylene(sim)	11.145	91	7297	0.183	ppbv#		89
116) 1,4-Dichlorobenzene(sim)	13.675	146	3746	0.095	ppbv		99
121) 1,2,4-Trichlorobenzene...	15.227	180	1313	0.085	ppbv		91

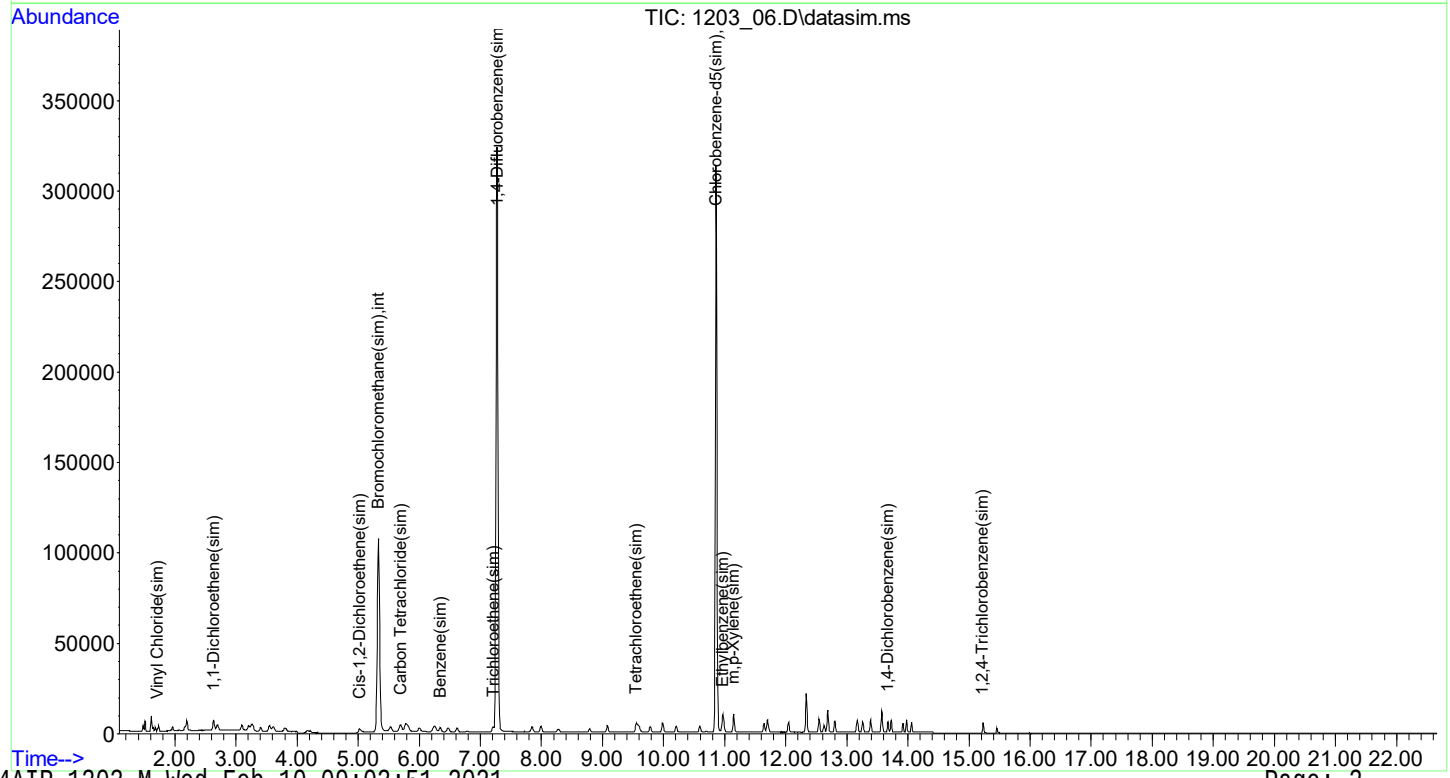
(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2020\CHEM24\12DEC\03\
Data File : 1203_06.D
Acq On : 3 Dec 2020 5:23 pm
Operator : Keith
Client ID : ICAL 0.1
Lab ID : 0.10
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Dec 04 08:35:35 2020
Quant Method : H:\AIR2020\CHEM24\METHODS\24AIR_1203.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Fri Dec 04 08:35:24 2020
Response via : Initial Calibration





Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2020\CHEM24\12DEC\03\
Data File : 1203_07.D
Acq On : 3 Dec 2020 5:56 pm
Operator : Keith
Client ID : ICAL 0.25
Lab ID : 0.20
ALS Vial : 9 Sample Multiplier: 1

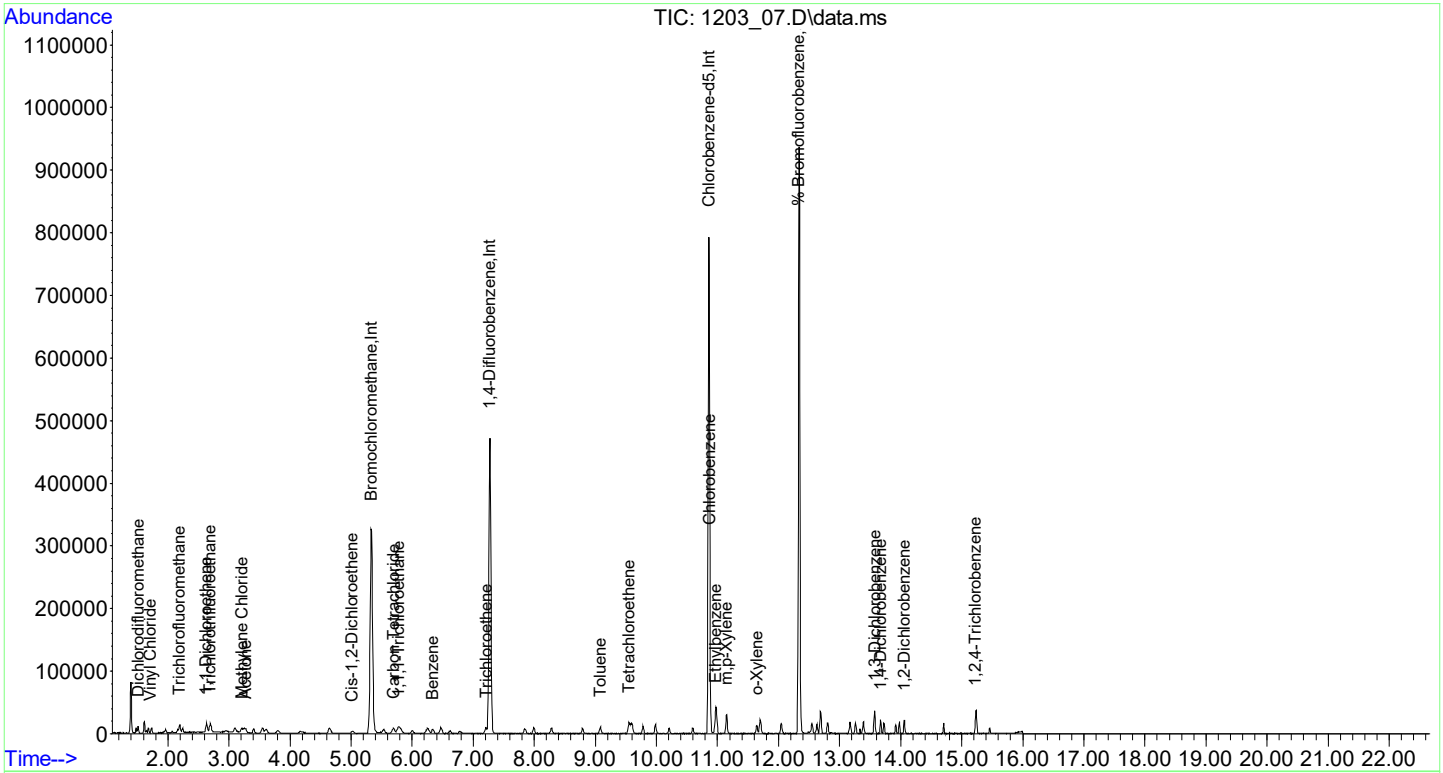
Quant Time: Dec 04 08:30:53 2020
Quant Method : H:\AIR2020\CHEM24\METHODS\24AIR_1203.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Fri Dec 04 08:30:38 2020
Response via : Initial Calibration

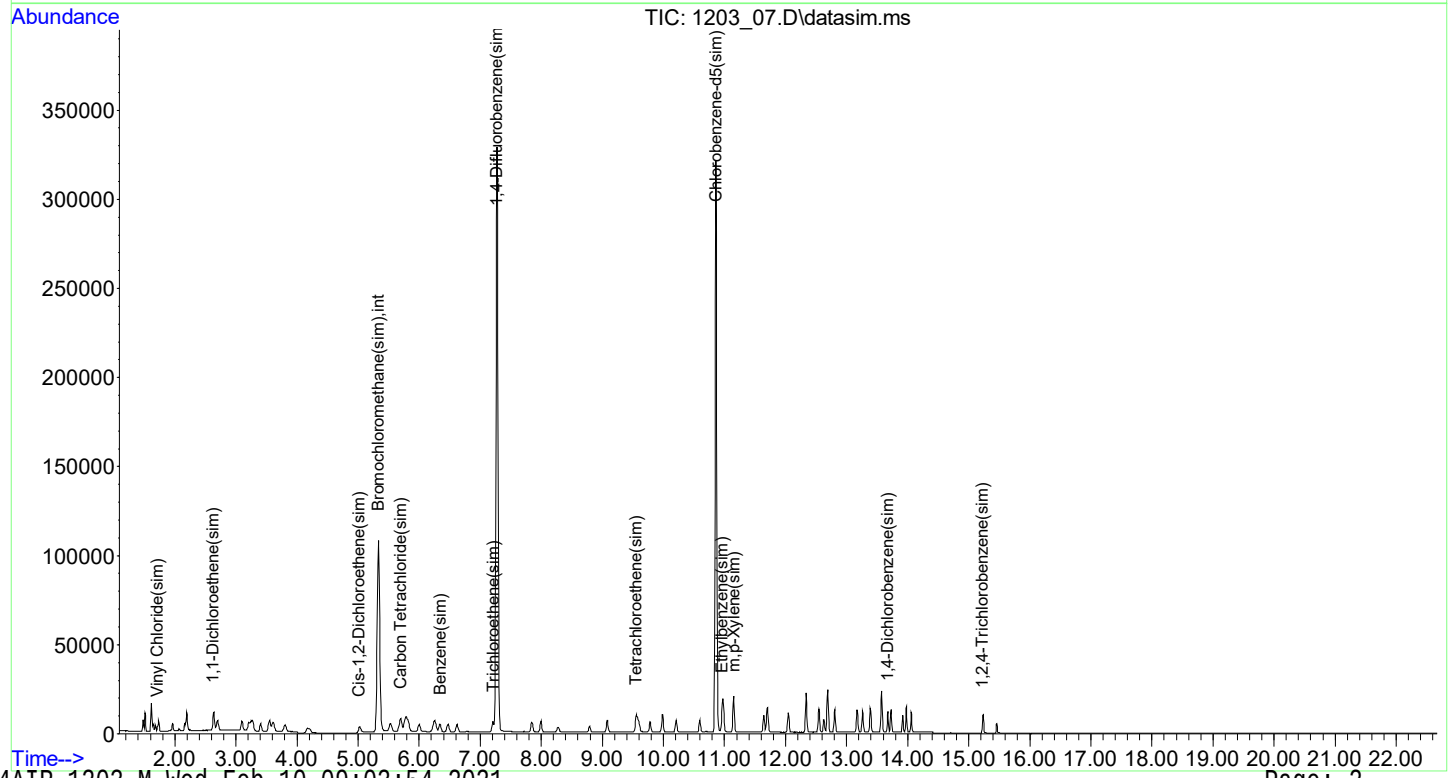
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	5.335	130	140105	10.000	ng		0.00
36) 1,4-Difluorobenzene	7.271	114	414179	10.000	ng		0.00
53) Chlorobenzene-d5	10.863	82	185742	10.000	ng		0.00
80) Bromochloromethane(sim)	5.330	130	146771	10.000	ng	#	0.00
95) 1,4-Difluorobenzene(sim)	7.271	114	414179	10.000	ng		0.00
105) Chlorobenzene-d5(sim)	10.863	82	185742	10.000	ng		0.00
System Monitoring Compounds							
62) % Bromofluorobenzene	12.335	95	273016	9.537	ppbv		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 95.40%				
Target Compounds							Qvalue
3) Dichlorodifluoromethane	1.513	85	7028	0.219	ppbv		98
6) Vinyl Chloride	1.718	62	2453	0.195	ppbv		87
12) Acetone	3.272	43	9966	0.238	ppbv		99
13) Trichlorofluoromethane	2.191	101	8738	0.188	ppbv		95
16) 1,1-Dichloroethene	2.629	61	5166	0.201	ppbv		95
17) Methylene Chloride	3.210	49	4790	0.209	ppbv		98
21) Trichlorotrifluoroethane	2.690	101	5898	0.195	ppbv		98
26) Cis-1,2-Dichloroethene	5.018	61	3158	0.189	ppbv		88
32) 1,1,1-Trichloroethane	5.782	97	6980	0.211	ppbv		95
33) Benzene	6.339	78	5215	0.195	ppbv		96
34) Carbon Tetrachloride	5.695	117	8643	0.209	ppbv		98
39) Trichloroethene	7.216	130	3956	0.198	ppbv		93
48) Toluene	9.082	91	7015	0.185	ppbv		99
52) Tetrachloroethene	9.552	166	4349	0.193	ppbv		93
55) Chlorobenzene	10.877	112	6843	0.190	ppbv	#	64
56) Ethylbenzene	10.966	91	10077	0.194	ppbv		93
57) m,p-Xylene	11.152	91	15762	0.398	ppbv		97
61) o-Xylene	11.646	91	7805	0.190	ppbv		92
71) 1,3-Dichlorobenzene	13.575	146	7281	0.199	ppbv		98
72) 1,4-Dichlorobenzene	13.672	146	6852	0.195	ppbv		96
75) 1,2-Dichlorobenzene	14.061	146	5951	0.200	ppbv		96
77) 1,2,4-Trichlorobenzene	15.227	180	2586	0.168	ppbv		98
82) Vinyl Chloride(sim)	1.714	62	2612	0.183	ppbv		99
86) Benzene(sim)	6.342	78	5948	0.184	ppbv		100
87) Carbon Tetrachloride(sim)	5.695	117	8808	0.220	ppbv	#	92
88) 1,1-Dichloroethene(sim)	2.632	61	5287	0.187	ppbv		99
92) Cis-1,2-Dichloroethene...	5.021	61	3854	0.191	ppbv		98
98) Trichloroethene(sim)	7.212	130	4152	0.195	ppbv		100
104) Tetrachloroethene(sim)	9.554	166	4616	0.197	ppbv		99
108) Ethylbenzene(sim)	10.962	91	11175	0.188	ppb		99
109) m,p-Xylene(sim)	11.152	91	15762	0.399	ppbv		97
116) 1,4-Dichlorobenzene(sim)	13.675	146	7365	0.188	ppbv		99
121) 1,2,4-Trichlorobenzene...	15.227	180	2586	0.169	ppbv		98

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

Data Path : H:\AIR2020\CHEM24\12DEC\03\
Data File : 1203_07.D
Acq On : 3 Dec 2020 5:56 pm
Operator : Keith
Client ID : ICAL 0.25
Lab ID : 0.20
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Dec 04 08:30:53 2020
Quant Method : H:\AIR2020\CHEM24\METHODS\24AIR_1203.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Fri Dec 04 08:30:38 2020
Response via : Initial Calibration





Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2020\CHEM24\12DEC\03\
Data File : 1203_08.D
Acq On : 3 Dec 2020 6:32 pm
Operator : Keith
Client ID : ICAL 0.5
Lab ID : 0.5
ALS Vial : 10 Sample Multiplier: 1

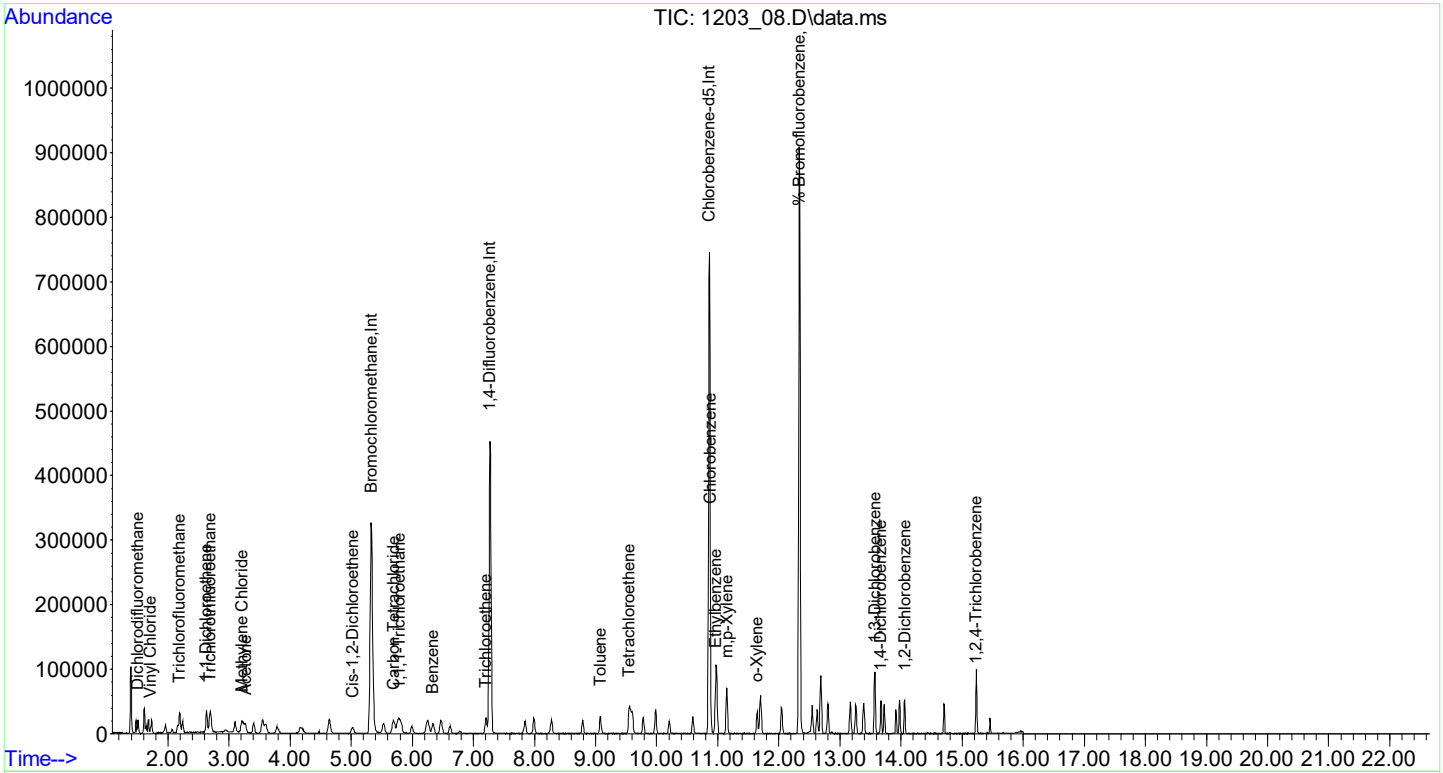
Quant Time: Dec 04 08:30:26 2020
Quant Method : H:\AIR2020\CHEM24\METHODS\24AIR_1203.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Fri Dec 04 08:30:11 2020
Response via : Initial Calibration

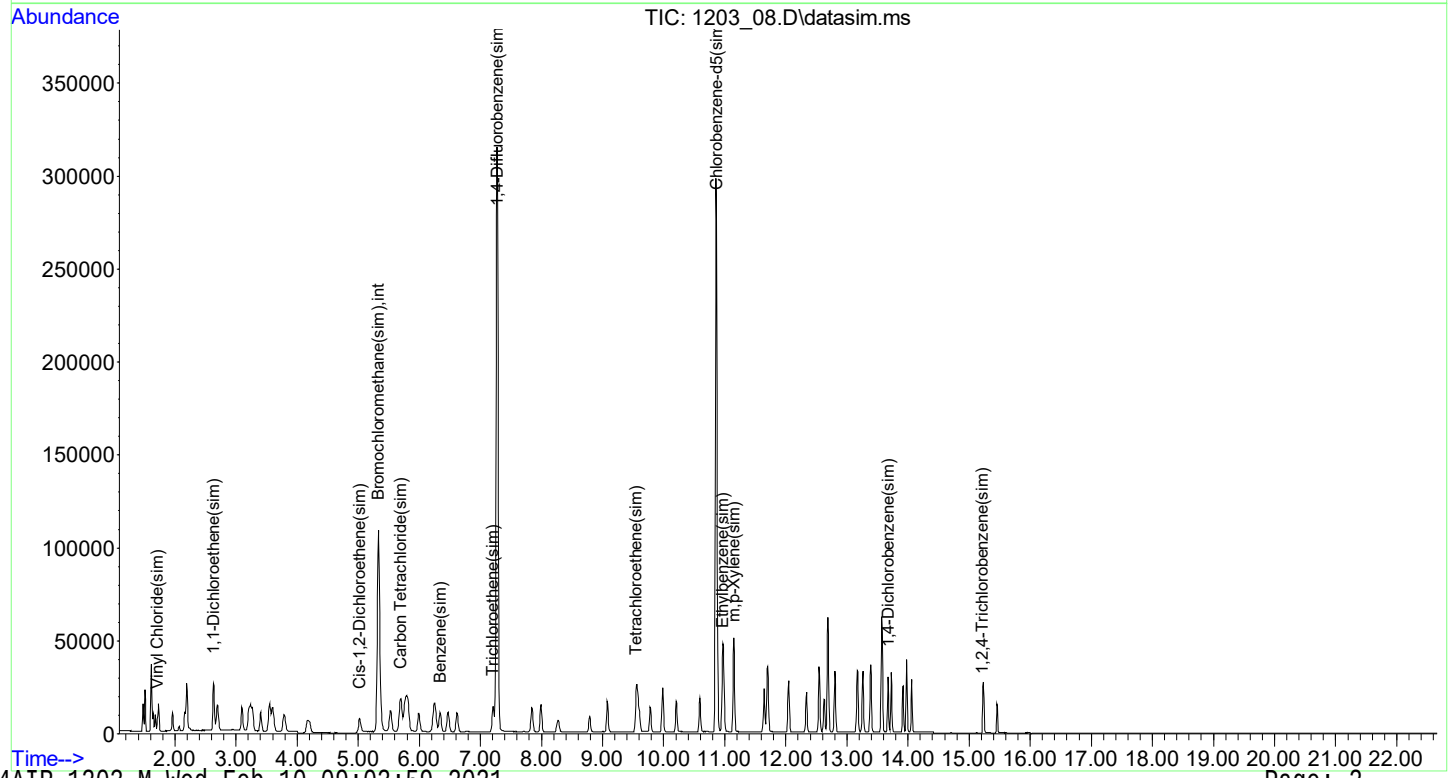
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	5.327	130	134237	10.000	ng		0.00
36) 1,4-Difluorobenzene	7.270	114	396222	10.000	ng		0.00
53) Chlorobenzene-d5	10.863	82	177106	10.000	ng		0.00
80) Bromochloromethane(sim)	5.330	130	142472	10.000	ng	#	0.00
95) 1,4-Difluorobenzene(sim)	7.270	114	396222	10.000	ng		0.00
105) Chlorobenzene-d5(sim)	10.863	82	177106	10.000	ng		0.00
System Monitoring Compounds							
62) % Bromofluorobenzene	12.335	95	266596	9.729	ppbv		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	97.30%			
Target Compounds							Qvalue
3) Dichlorodifluoromethane	1.506	85	13358	0.435	ppbv		99
6) Vinyl Chloride	1.711	62	6211	0.517	ppbv		96
12) Acetone	3.272	43	23007	0.574	ppbv		100
13) Trichlorofluoromethane	2.191	101	23234	0.520	ppbv		99
16) 1,1-Dichloroethene	2.629	61	11669	0.474	ppbv		96
17) Methylene Chloride	3.210	49	11444	0.521	ppbv		99
21) Trichlorotrifluoroethane	2.690	101	14813	0.510	ppbv		97
26) Cis-1,2-Dichloroethene	5.025	61	7181	0.448	ppbv		90
32) 1,1,1-Trichloroethane	5.789	97	16186	0.511	ppbv		95
33) Benzene	6.332	78	12177	0.476	ppbv		94
34) Carbon Tetrachloride	5.695	117	20149	0.508	ppbv		98
39) Trichloroethene	7.209	130	9012	0.472	ppbv		99
48) Toluene	9.082	91	17222	0.475	ppbv		100
52) Tetrachloroethene	9.551	166	10927	0.506	ppbv		95
55) Chlorobenzene	10.877	112	17123	0.497	ppbv		81
56) Ethylbenzene	10.966	91	23994	0.485	ppbv		96
57) m,p-Xylene	11.152	91	37514	0.993	ppbv		97
61) o-Xylene	11.646	91	18587	0.474	ppbv		98
71) 1,3-Dichlorobenzene	13.574	146	17821	0.510	ppbv		98
72) 1,4-Dichlorobenzene	13.672	146	16126	0.482	ppbv		98
75) 1,2-Dichlorobenzene	14.061	146	14443	0.510	ppbv		98
77) 1,2,4-Trichlorobenzene	15.223	180	7026	0.479	ppbv		95
82] Vinyl Chloride(sim)	1.714	62	6301	0.455	ppbv		99
86] Benzene(sim)	6.342	78	14226	0.454	ppbv		100
87] Carbon Tetrachloride(sim)	5.695	117	19732	0.507	ppbv		97
88] 1,1-Dichloroethene(sim)	2.632	61	12951	0.473	ppbv		99
92] Cis-1,2-Dichloroethene...	5.020	61	9093	0.465	ppbv		96
98] Trichloroethene(sim)	7.205	130	9952	0.489	ppbv		99
104] Tetrachloroethene(sim)	9.554	166	11202	0.499	ppbv		100
108] Ethylbenzene(sim)	10.962	91	27609	0.488	ppb		99
109] m,p-Xylene(sim)	11.152	91	37514	0.996	ppbv		97
116] 1,4-Dichlorobenzene(sim)	13.675	146	18896	0.507	ppbv		99
121] 1,2,4-Trichlorobenzene...	15.223	180	7065	0.483	ppbv		95

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

Data Path : H:\AIR2020\CHEM24\12DEC\03\
Data File : 1203_08.D
Acq On : 3 Dec 2020 6:32 pm
Operator : Keith
Client ID : ICAL 0.5
Lab ID : 0.5
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Dec 04 08:30:26 2020
Quant Method : H:\AIR2020\CHEM24\METHODS\24AIR_1203.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Fri Dec 04 08:30:11 2020
Response via : Initial Calibration





Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2020\CHEM24\12DEC\03\
Data File : 1203_09.D
Acq On : 3 Dec 2020 7:08 pm
Operator : Keith
Client ID : ICAL 2.5
Lab ID : 2.5
ALS Vial : 11 Sample Multiplier: 1

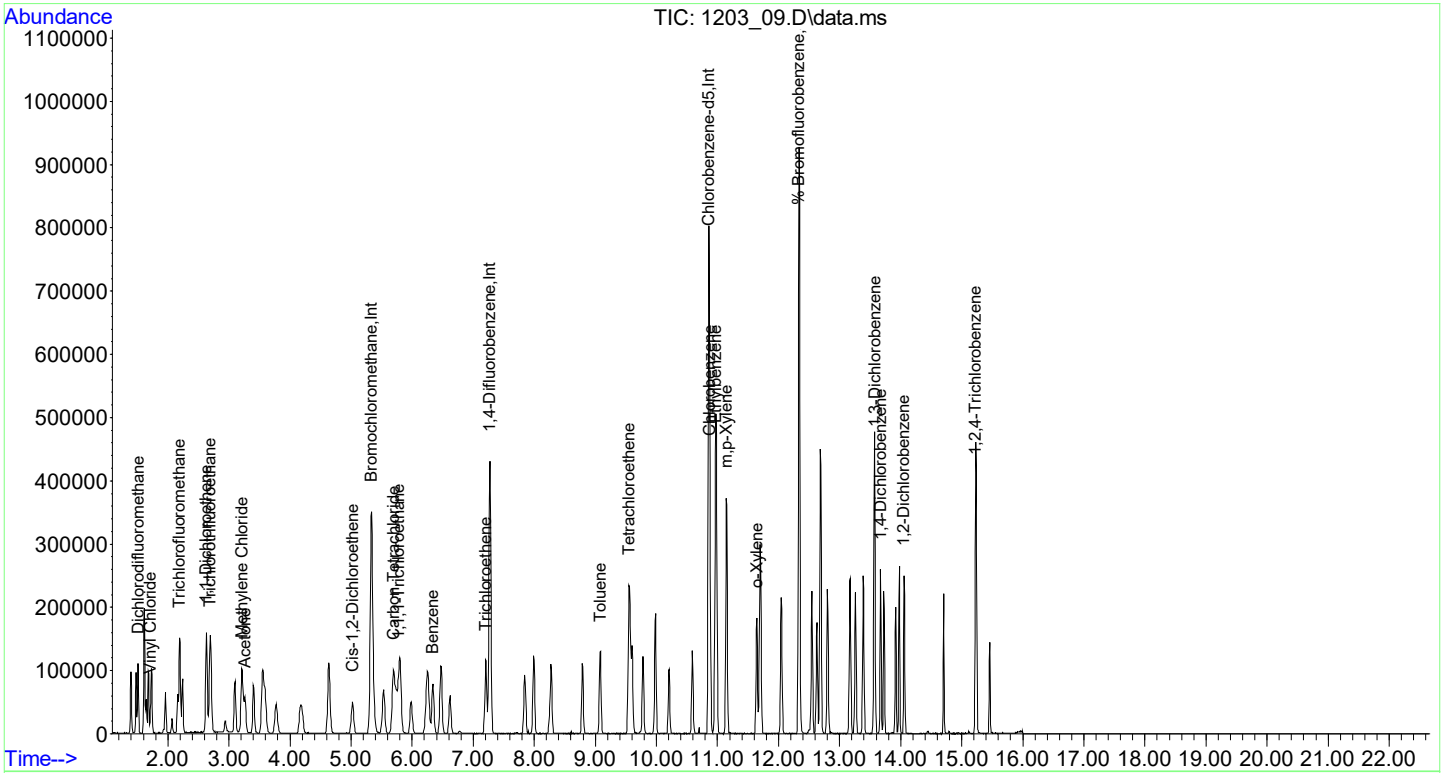
Quant Time: Dec 04 08:30:00 2020
Quant Method : H:\AIR2020\CHEM24\METHODS\24AIR_1203.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Fri Dec 04 08:29:43 2020
Response via : Initial Calibration

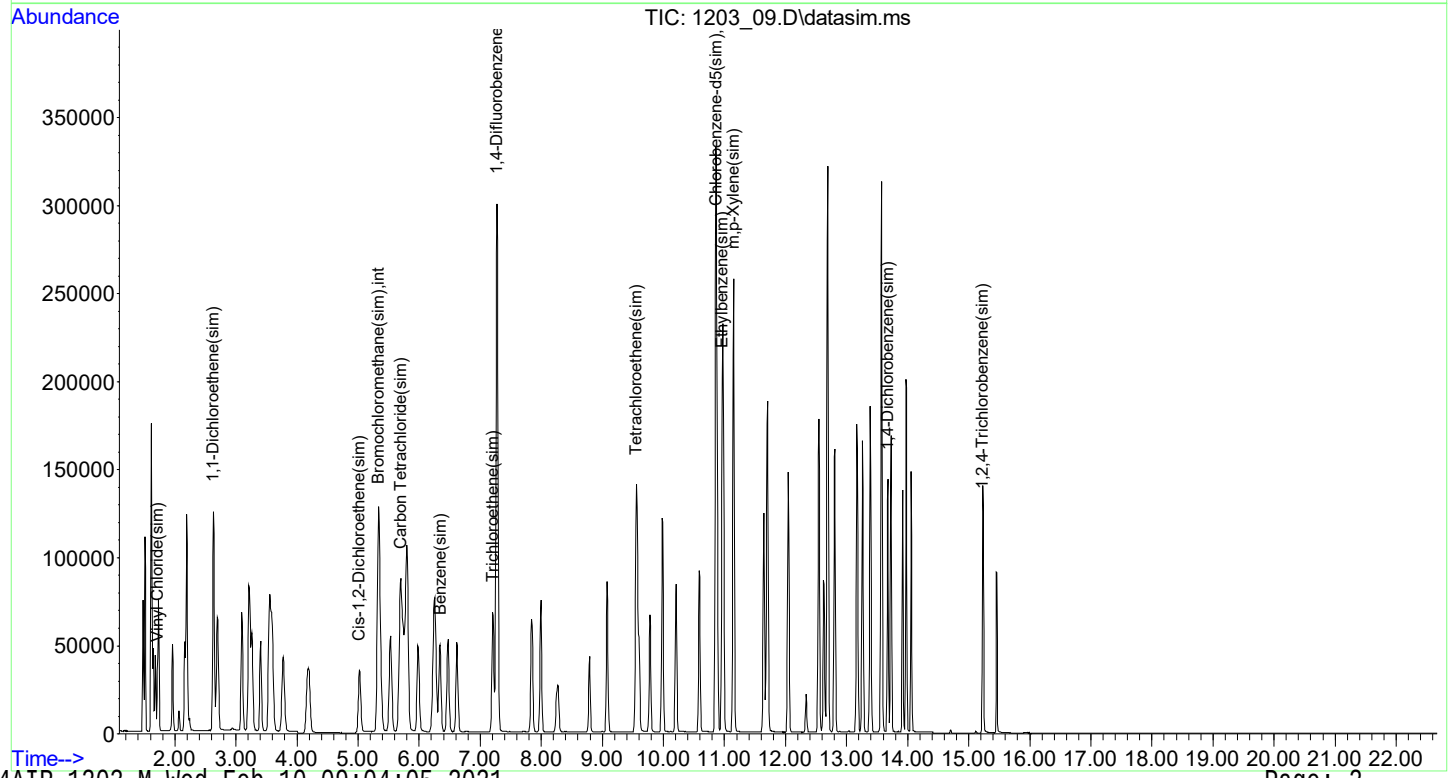
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	5.335	130	132589	10.000	ng		0.00
36) 1,4-Difluorobenzene	7.271	114	388875	10.000	ng		0.00
53) Chlorobenzene-d5	10.857	82	178798	10.000	ng		0.00
80) Bromochloromethane(sim)	5.330	130	140338	10.000	ng	#	0.00
95) 1,4-Difluorobenzene(sim)	7.271	114	388875	10.000	ng		0.00
105) Chlorobenzene-d5(sim)	10.857	82	178798	10.000	ng		0.00
System Monitoring Compounds							
62) % Bromofluorobenzene	12.335	95	272430	9.818	ppbv		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 98.20%				
Target Compounds							Qvalue
3) Dichlorodifluoromethane	1.513	85	68413	2.258	ppbv		100
6) Vinyl Chloride	1.718	62	28216	2.376	ppbv		100
12) Acetone	3.265	43	96832	2.446	ppbv		98
13) Trichlorofluoromethane	2.191	101	113364	2.571	ppbv		99
16) 1,1-Dichloroethene	2.629	61	59198	2.433	ppbv		98
17) Methylene Chloride	3.210	49	54362	2.507	ppbv		97
21) Trichlorotrifluoroethane	2.690	101	70989	2.475	ppbv		97
26) Cis-1,2-Dichloroethene	5.025	61	39038	2.467	ppbv		99
32) 1,1,1-Trichloroethane	5.782	97	78175	2.497	ppbv		99
33) Benzene	6.339	78	61720	2.445	ppbv		99
34) Carbon Tetrachloride	5.695	117	97818	2.496	ppbv		99
39) Trichloroethene	7.209	130	44350	2.369	ppbv		99
48) Toluene	9.082	91	85702	2.411	ppbv		100
52) Tetrachloroethene	9.552	166	52326	2.469	ppbv		99
55) Chlorobenzene	10.877	112	84345	2.427	ppbv		97
56) Ethylbenzene	10.966	91	123079	2.463	ppbv		99
57) m,p-Xylene	11.145	91	194647	5.104	ppbv		99
61) o-Xylene	11.646	91	96672	2.440	ppbv		100
71) 1,3-Dichlorobenzene	13.575	146	84626	2.397	ppbv		99
72) 1,4-Dichlorobenzene	13.672	146	82437	2.439	ppbv		99
75) 1,2-Dichlorobenzene	14.055	146	71460	2.500	ppbv		98
77) 1,2,4-Trichlorobenzene	15.227	180	37100	2.506	ppbv		97
82] Vinyl Chloride(sim)	1.714	62	31043	2.276	ppbv		100
86] Benzene(sim)	6.342	78	68152	2.207	ppbv		100
87] Carbon Tetrachloride(sim)	5.695	117	97818	2.554	ppbv		99
88] 1,1-Dichloroethene(sim)	2.632	61	63903	2.369	ppbv		100
92] Cis-1,2-Dichloroethene...	5.021	61	47473	2.463	ppbv		99
98] Trichloroethene(sim)	7.205	130	48203	2.412	ppbv		100
104] Tetrachloroethene(sim)	9.554	166	54741	2.483	ppbv		99
108] Ethylbenzene(sim)	10.962	91	136693	2.395	ppb		100
109] m,p-Xylene(sim)	11.145	91	194776	5.122	ppbv		99
116] 1,4-Dichlorobenzene(sim)	13.675	146	92971	2.470	ppbv		100
121] 1,2,4-Trichlorobenzene...	15.227	180	37163	2.519	ppbv		98

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

Data Path : H:\AIR2020\CHEM24\12DEC\03\
Data File : 1203_09.D
Acq On : 3 Dec 2020 7:08 pm
Operator : Keith
Client ID : ICAL 2.5
Lab ID : 2.5
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Dec 04 08:30:00 2020
Quant Method : H:\AIR2020\CHEM24\METHODS\24AIR_1203.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Fri Dec 04 08:29:43 2020
Response via : Initial Calibration





Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2020\CHEM24\12DEC\03\
Data File : 1203_10.D
Acq On : 3 Dec 2020 7:41 pm
Operator : Keith
Client ID : ICAL 5
Lab ID : 5.0
ALS Vial : 12 Sample Multiplier: 1

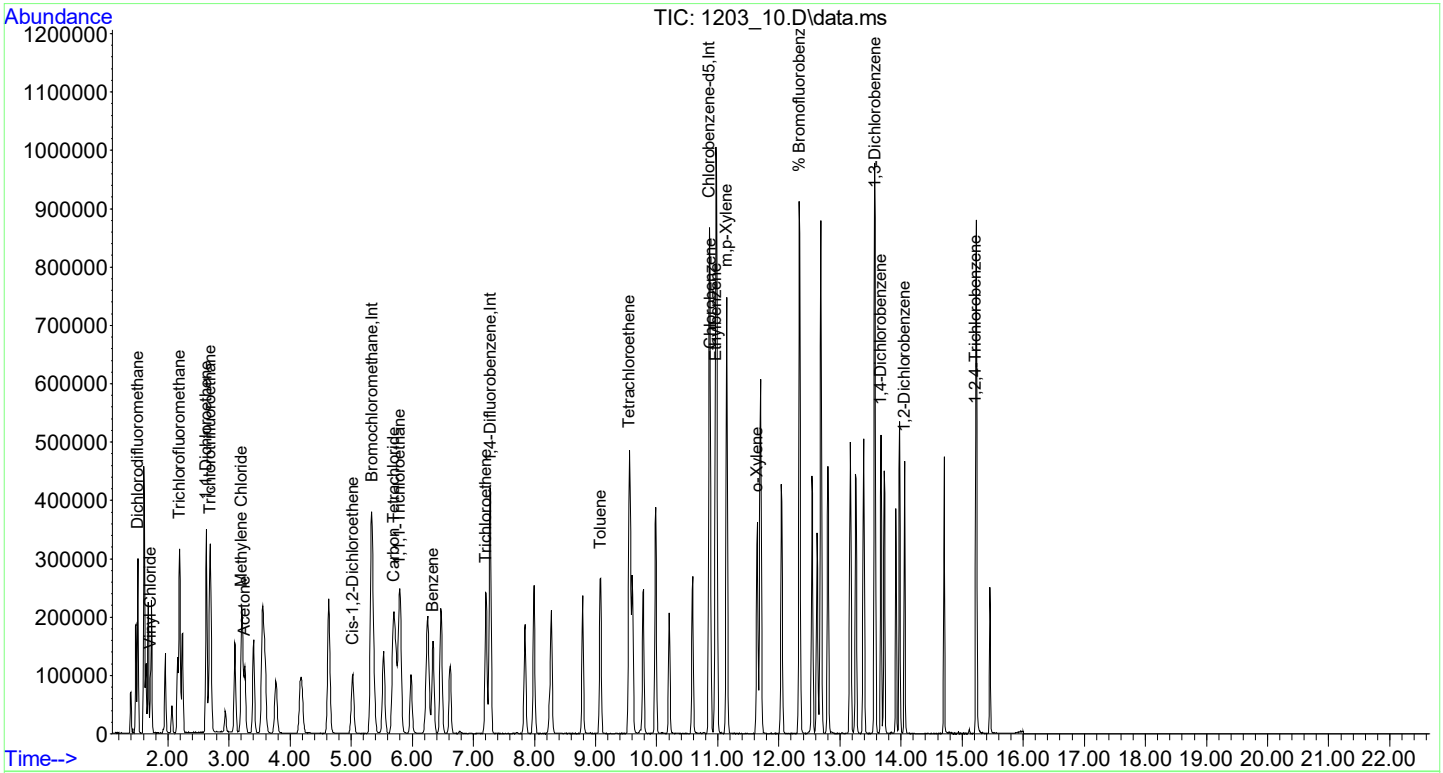
Quant Time: Dec 04 08:29:33 2020
Quant Method : H:\AIR2020\CHEM24\METHODS\24AIR_1203.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Fri Dec 04 08:29:12 2020
Response via : Initial Calibration

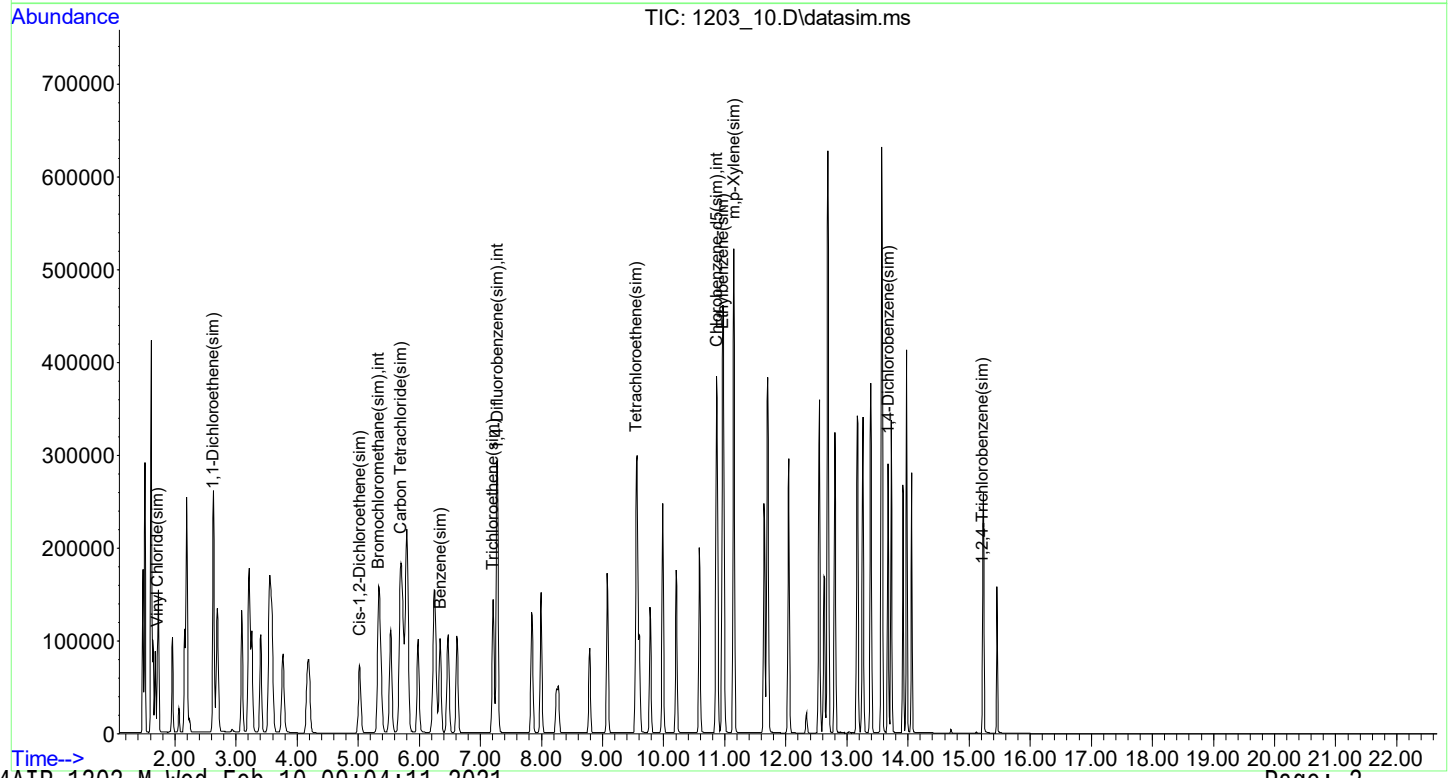
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	5.335	130	130484	10.000	ng		0.00
36) 1,4-Difluorobenzene	7.277	114	371086	10.000	ng		0.00
53) Chlorobenzene-d5	10.864	82	174586	10.000	ng		0.00
80) Bromochloromethane(sim)	5.331	130	135648	10.000	ng	#	0.00
95) 1,4-Difluorobenzene(sim)	7.277	114	371086	10.000	ng		0.00
105) Chlorobenzene-d5(sim)	10.864	82	174586	10.000	ng		0.00
System Monitoring Compounds							
62) % Bromofluorobenzene	12.335	95	271155	10.010	ppbv		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.10%				
Target Compounds							Qvalue
3) Dichlorodifluoromethane	1.506	85	176490	5.919	ppbv		99
6) Vinyl Chloride	1.711	62	61721	5.281	ppbv		97
12) Acetone	3.258	43	185658	4.765	ppbv		99
13) Trichlorofluoromethane	2.191	101	231453	5.334	ppbv		100
16) 1,1-Dichloroethene	2.629	61	126030	5.263	ppbv		99
17) Methylene Chloride	3.203	49	112815	5.287	ppbv		99
21) Trichlorotrifluoroethane	2.690	101	147859	5.238	ppbv		99
26) Cis-1,2-Dichloroethene	5.025	61	78661	5.051	ppbv		99
32) 1,1,1-Trichloroethane	5.789	97	159664	5.183	ppbv		99
33) Benzene	6.339	78	123340	4.964	ppbv		98
34) Carbon Tetrachloride	5.695	117	198912	5.158	ppbv		98
39) Trichloroethene	7.209	130	93504	5.233	ppbv		99
48) Toluene	9.082	91	176607	5.206	ppbv		99
52) Tetrachloroethene	9.552	166	104520	5.169	ppbv		99
55) Chlorobenzene	10.877	112	168848	4.976	ppbv		99
56) Ethylbenzene	10.960	91	245775	5.037	ppbv		100
57) m,p-Xylene	11.145	91	382944	10.284	ppbv		100
61) o-Xylene	11.646	91	194365	5.024	ppbv		99
71) 1,3-Dichlorobenzene	13.575	146	167864	4.870	ppbv		100
72) 1,4-Dichlorobenzene	13.672	146	164761	4.993	ppbv		98
75) 1,2-Dichlorobenzene	14.055	146	138050	4.945	ppbv		99
77) 1,2,4-Trichlorobenzene	15.222	180	70355	4.867	ppbv		98
82] Vinyl Chloride(sim)	1.714	62	67238	5.099	ppbv		100
86] Benzene(sim)	6.342	78	136571	4.575	ppbv		99
87] Carbon Tetrachloride(sim)	5.695	117	198938	5.373	ppbv		98
88] 1,1-Dichloroethene(sim)	2.625	61	133951	5.137	ppbv		99
92] Cis-1,2-Dichloroethene...	5.021	61	97244	5.219	ppbv		98
98] Trichloroethene(sim)	7.205	130	100754	5.284	ppbv		100
104] Tetrachloroethene(sim)	9.554	166	111191	5.285	ppbv		100
108] Ethylbenzene(sim)	10.962	91	275386	4.942	ppb		100
109] m,p-Xylene(sim)	11.145	91	383131	10.319	ppbv		100
116] 1,4-Dichlorobenzene(sim)	13.675	146	185719	5.053	ppbv		99
121] 1,2,4-Trichlorobenzene...	15.222	180	69888	4.851	ppbv		98

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

Data Path : H:\AIR2020\CHEM24\12DEC\03\
Data File : 1203_10.D
Acq On : 3 Dec 2020 7:41 pm
Operator : Keith
Client ID : ICAL 5
Lab ID : 5.0
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Dec 04 08:29:33 2020
Quant Method : H:\AIR2020\CHEM24\METHODS\24AIR_1203.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Fri Dec 04 08:29:12 2020
Response via : Initial Calibration





Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2020\CHEM24\12DEC\03\
Data File : 1203_11.D
Acq On : 3 Dec 2020 8:17 pm
Operator : Keith
Client ID : ICAL 25
Lab ID : 25
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Dec 04 08:26:18 2020
Quant Method : H:\AIR2020\CHEM24\METHODS\24AIR_1203.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Wed Dec 02 20:32:16 2020
Response via : Initial Calibration

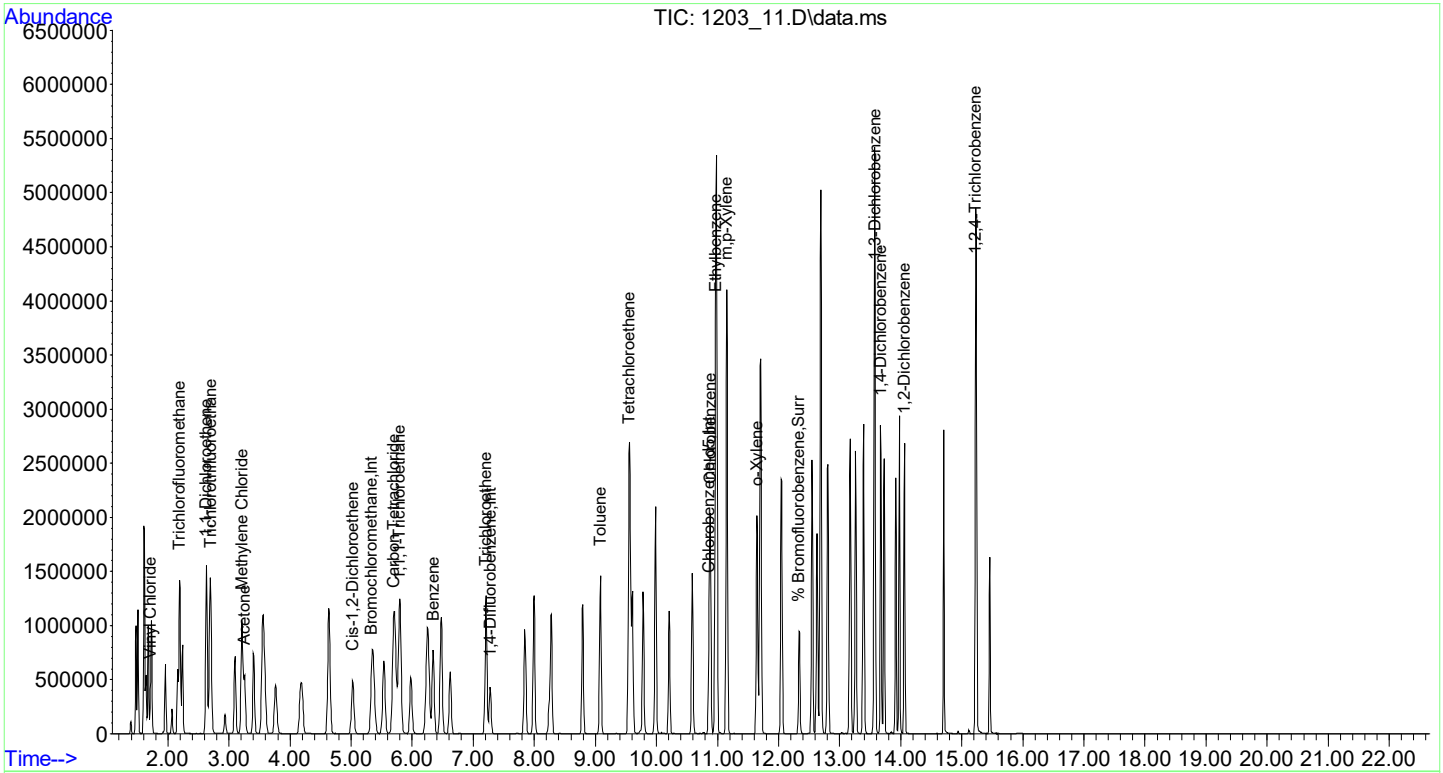
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	5.335	130	130388	10.000	ng	-0.04
36) 1,4-Difluorobenzene	7.277	114	382090	10.000	ng	-0.03
53) Chlorobenzene-d5	10.863	82	182308	10.000	ng	#-0.03
80) Bromochloromethane(sim)	5.338	130	135158	10.000	ng	#-0.04
95) 1,4-Difluorobenzene(sim)	7.277	114	382090	10.000	ng	-0.03
105) Chlorobenzene-d5(sim)	10.863	82	182308	10.000	ng	#-0.03
System Monitoring Compounds						
62) % Bromofluorobenzene	12.335	95	289784	10.675	ppbv	-0.03
Spiked Amount 10.000	Range 70 - 130		Recovery = 106.80%			
Target Compounds						Qvalue
6) Vinyl Chloride	1.711	62	289267	24.768	ppbv	99
12) Acetone	3.258	43	878312	22.560	ppbv#	89
13) Trichlorofluoromethane	2.191	101	1070245	24.683	ppbv	99
16) 1,1-Dichloroethene	2.629	61	587236	24.539	ppbv	90
17) Methylene Chloride	3.210	49	522499	24.503	ppbv	88
21) Trichlorotrifluoroethane	2.697	101	675416	23.945	ppbv	98
26) Cis-1,2-Dichloroethene	5.025	61	390883	25.116	ppbv	91
32) 1,1,1-Trichloroethane	5.789	97	766600	24.904	ppbv	98
33) Benzene	6.346	78	609655	24.557	ppbv#	91
34) Carbon Tetrachloride	5.695	117	981245	25.464	ppbv	99
39) Trichloroethene	7.209	130	478591	26.013	ppbv	99
48) Toluene	9.082	91	931273	26.663	ppbv	99
52) Tetrachloroethene	9.551	166	554564	26.634	ppbv	96
55) Chlorobenzene	10.884	112	897941	25.343	ppbv	99
56) Ethylbenzene	10.966	91	1354066	26.576	ppbv	98
57) m,p-Xylene	11.152	91	2138476	54.995	ppbv	97
61) o-Xylene	11.646	91	1110568	27.490	ppbv	96
71) 1,3-Dichlorobenzene	13.581	146	962824	26.750	ppbv	98
72) 1,4-Dichlorobenzene	13.672	146	946019	27.454	ppbv	98
75) 1,2-Dichlorobenzene	14.061	146	779002	26.724	ppbv	98
77) 1,2,4-Trichlorobenzene	15.227	180	470602	31.176	ppbv	98
82] Vinyl Chloride(sim)	1.714	62	311945	23.743	ppbv	99
86] Benzene(sim)	6.342	78	674764	22.687	ppbv#	91
87] Carbon Tetrachloride(sim)	5.695	117	981179	26.597	ppbv	99
88] 1,1-Dichloroethene(sim)	2.632	61	622292	23.950	ppbv	93
92] Cis-1,2-Dichloroethene...	5.028	61	473271	25.494	ppbv#	88
98] Trichloroethene(sim)	7.212	130	509575	25.955	ppbv	100
104] Tetrachloroethene(sim)	9.554	166	580513	26.798	ppbv	96
108] Ethylbenzene(sim)	10.969	91	1490403	25.614	ppb	98
109] m,p-Xylene(sim)	11.152	91	2139888	55.193	ppbv	97
116] 1,4-Dichlorobenzene(sim)	13.675	146	1053689	27.456	ppbv	98
121] 1,2,4-Trichlorobenzene...	15.227	180	470602	31.280	ppbv	98

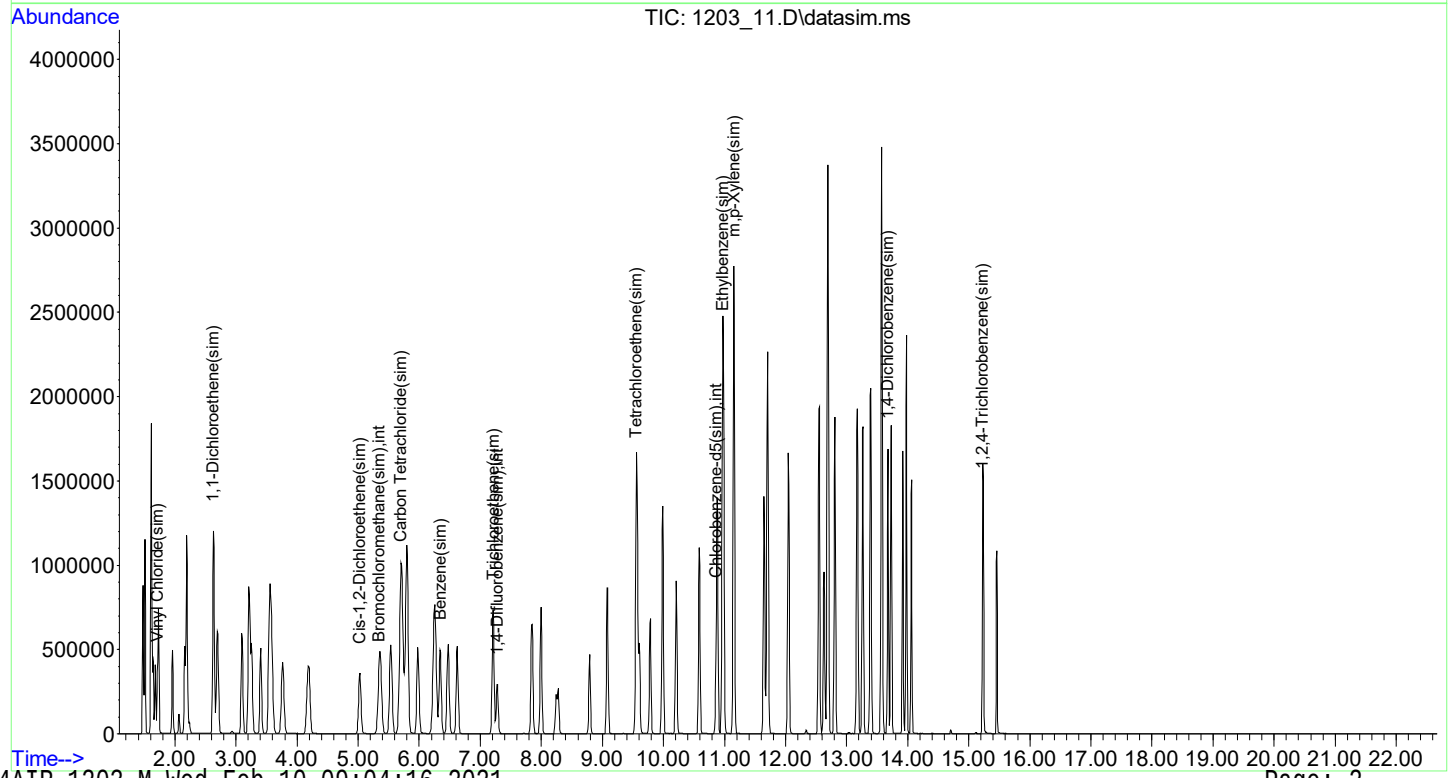
(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2020\CHEM24\12DEC\03\
Data File : 1203_11.D
Acq On : 3 Dec 2020 8:17 pm
Operator : Keith
Client ID : ICAL 25
Lab ID : 25
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Dec 04 08:26:18 2020
Quant Method : H:\AIR2020\CHEM24\METHODS\24AIR_1203.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Wed Dec 02 20:32:16 2020
Response via : Initial Calibration





Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2020\CHEM24\12DEC\03\
Data File : 1203_12.D
Acq On : 3 Dec 2020 8:56 pm
Operator : Keith
Client ID : ICAL 40
Lab ID : 40
ALS Vial : 14 Sample Multiplier: 1

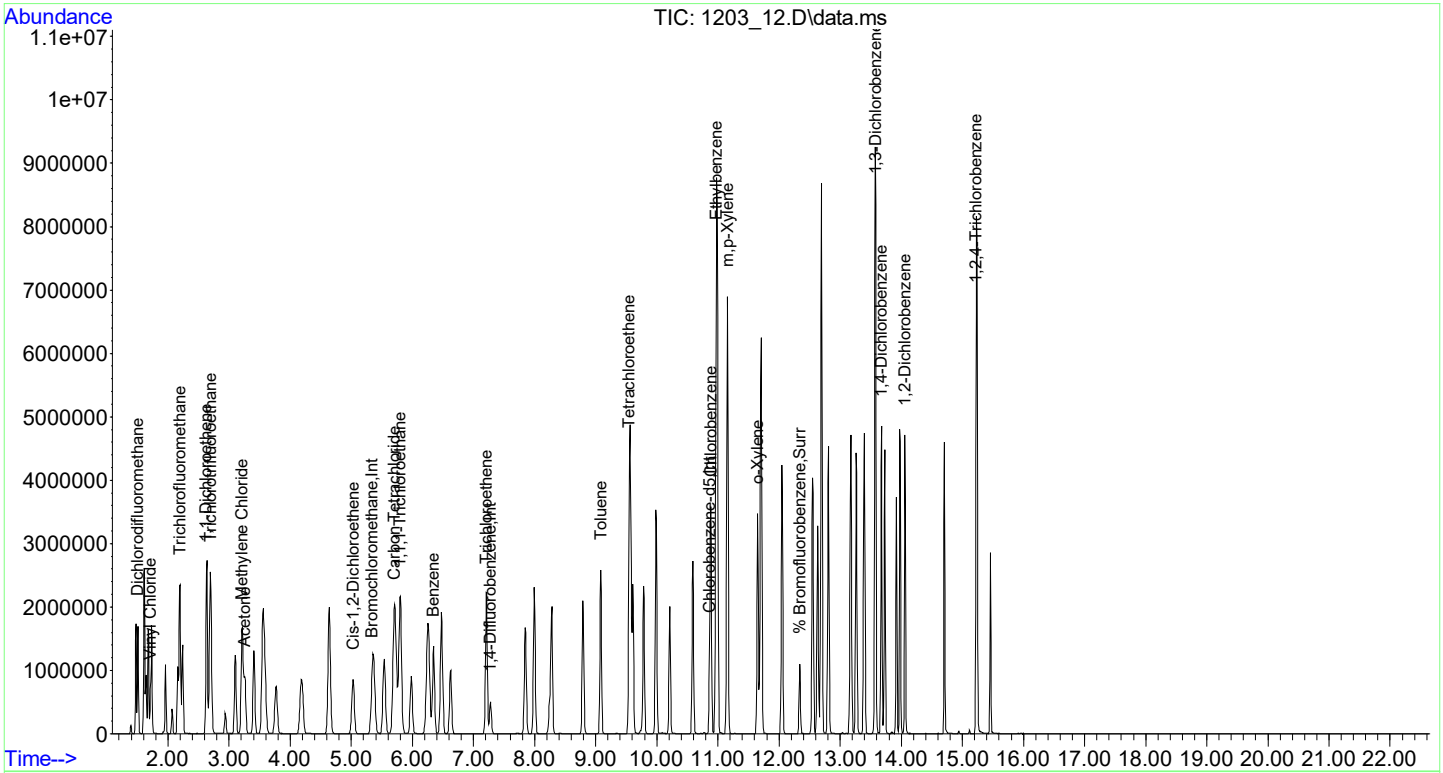
Quant Time: Dec 04 08:27:17 2020
Quant Method : H:\AIR2020\CHEM24\METHODS\24AIR_1203.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Fri Dec 04 08:27:04 2020
Response via : Initial Calibration

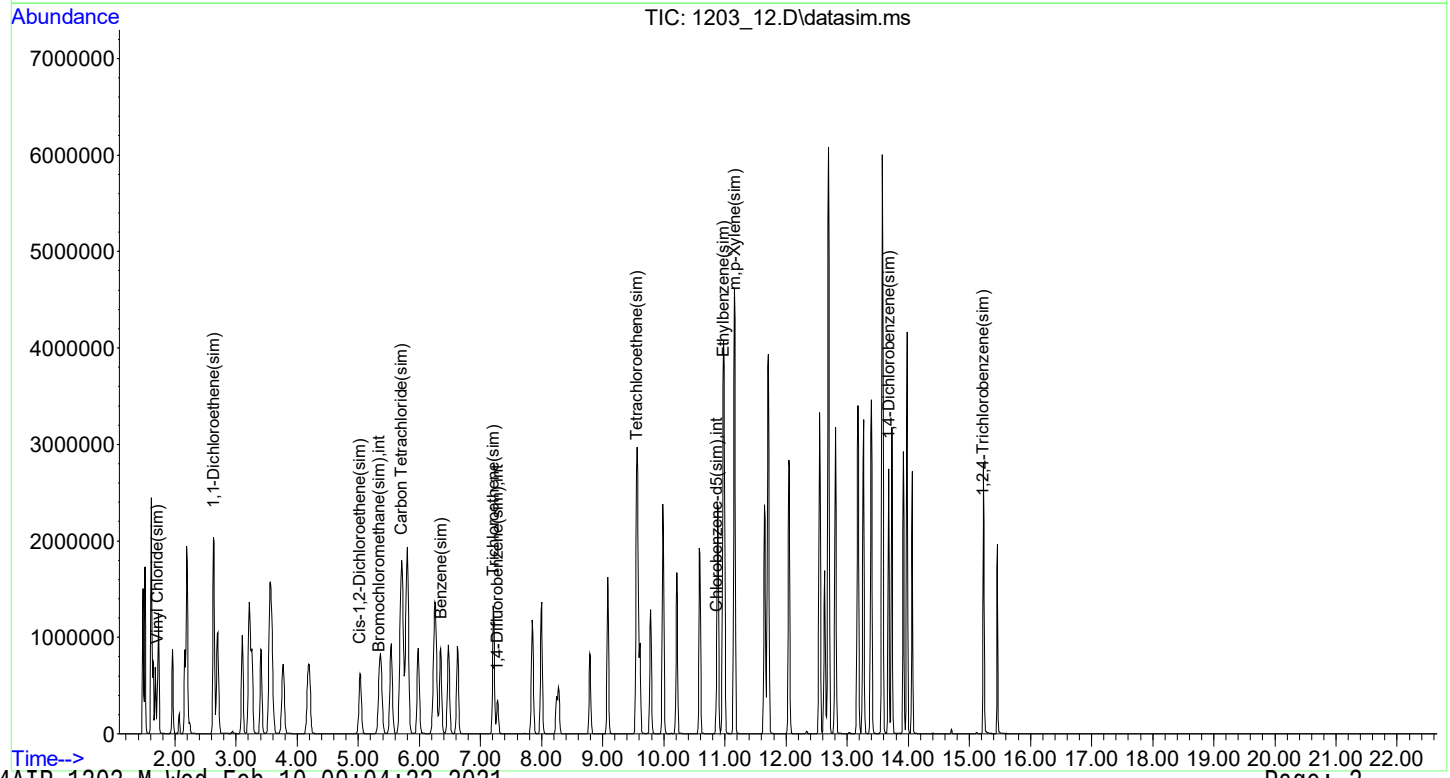
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	5.342	130	151205	10.000	ng		0.00
36) 1,4-Difluorobenzene	7.277	114	438941	10.000	ng		0.00
53) Chlorobenzene-d5	10.863	82	207897	10.000	ng		0.00
80) Bromochloromethane(sim)	5.338	130	155613	10.000	ng	#	0.00
95) 1,4-Difluorobenzene(sim)	7.277	114	438941	10.000	ng		0.00
105) Chlorobenzene-d5(sim)	10.863	82	207897	10.000	ng		0.00
System Monitoring Compounds							
62) % Bromofluorobenzene	12.341	95	326861	9.891	ppbv		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 98.90%				
Target Compounds							Qvalue
3) Dichlorodifluoromethane	1.506	85	1040616	30.115	ppbv		99
6) Vinyl Chloride	1.711	62	504977	37.285	ppbv		99
12) Acetone	3.258	43	1473783	32.644	ppbv		98
13) Trichlorofluoromethane	2.197	101	1825133	36.298	ppbv		100
16) 1,1-Dichloroethene	2.629	61	1023670	36.887	ppbv		98
17) Methylene Chloride	3.210	49	884253	35.758	ppbv		98
21) Trichlorotrifluoroethane	2.697	101	1202065	36.748	ppbv		99
26) Cis-1,2-Dichloroethene	5.032	61	697608	38.654	ppbv		99
32) 1,1,1-Trichloroethane	5.796	97	1345896	37.703	ppbv		99
33) Benzene	6.346	78	1105656	38.404	ppbv		99
34) Carbon Tetrachloride	5.702	117	1699822	38.038	ppbv		100
39) Trichloroethene	7.216	130	868052	41.071	ppbv		100
48) Toluene	9.082	91	1691077	42.146	ppbv		100
52) Tetrachloroethene	9.551	166	1012860	42.345	ppbv		99
55) Chlorobenzene	10.884	112	1644030	40.688	ppbv		99
56) Ethylbenzene	10.973	91	2378344	40.934	ppbv		100
57) m,p-Xylene	11.158	91	3776566	85.167	ppbv		100
61) o-Xylene	11.652	91	1966398	42.684	ppbv		99
71) 1,3-Dichlorobenzene	13.581	146	1689151	41.153	ppbv		100
72) 1,4-Dichlorobenzene	13.678	146	1626484	41.392	ppbv		99
75) 1,2-Dichlorobenzene	14.061	146	1362482	40.988	ppbv		100
77) 1,2,4-Trichlorobenzene	15.227	180	868869	50.475	ppbv		98
82) Vinyl Chloride(sim)	1.714	62	544347	35.985	ppbv		100
86) Benzene(sim)	6.349	78	1219787	35.621	ppbv		98
87) Carbon Tetrachloride(sim)	5.702	117	1699822	40.021	ppbv		100
88) 1,1-Dichloroethene(sim)	2.632	61	1076564	35.988	ppbv		99
92) Cis-1,2-Dichloroethene...	5.028	61	824343	38.568	ppbv		98
98) Trichloroethene(sim)	7.212	130	918523	40.725	ppbv		100
104) Tetrachloroethene(sim)	9.554	166	1063384	42.731	ppbv		99
108) Ethylbenzene(sim)	10.969	91	2588992	39.017	ppb		100
109) m,p-Xylene(sim)	11.158	91	3777874	85.447	ppbv		100
116) 1,4-Dichlorobenzene(sim)	13.681	146	1824517	41.690	ppbv		100
121) 1,2,4-Trichlorobenzene...	15.227	180	869482	50.680	ppbv		98

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

Data Path : H:\AIR2020\CHEM24\12DEC\03\
Data File : 1203_12.D
Acq On : 3 Dec 2020 8:56 pm
Operator : Keith
Client ID : ICAL 40
Lab ID : 40
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Dec 04 08:27:17 2020
Quant Method : H:\AIR2020\CHEM24\METHODS\24AIR_1203.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Fri Dec 04 08:27:04 2020
Response via : Initial Calibration





Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2020\CHEM24\12DEC\03\
Data File : 1203_14.D
Acq On : 3 Dec 2020 10:00 pm
Operator : Keith
Client ID : ICAL 1
Lab ID : 1ppb
ALS Vial : 16 Sample Multiplier: 1

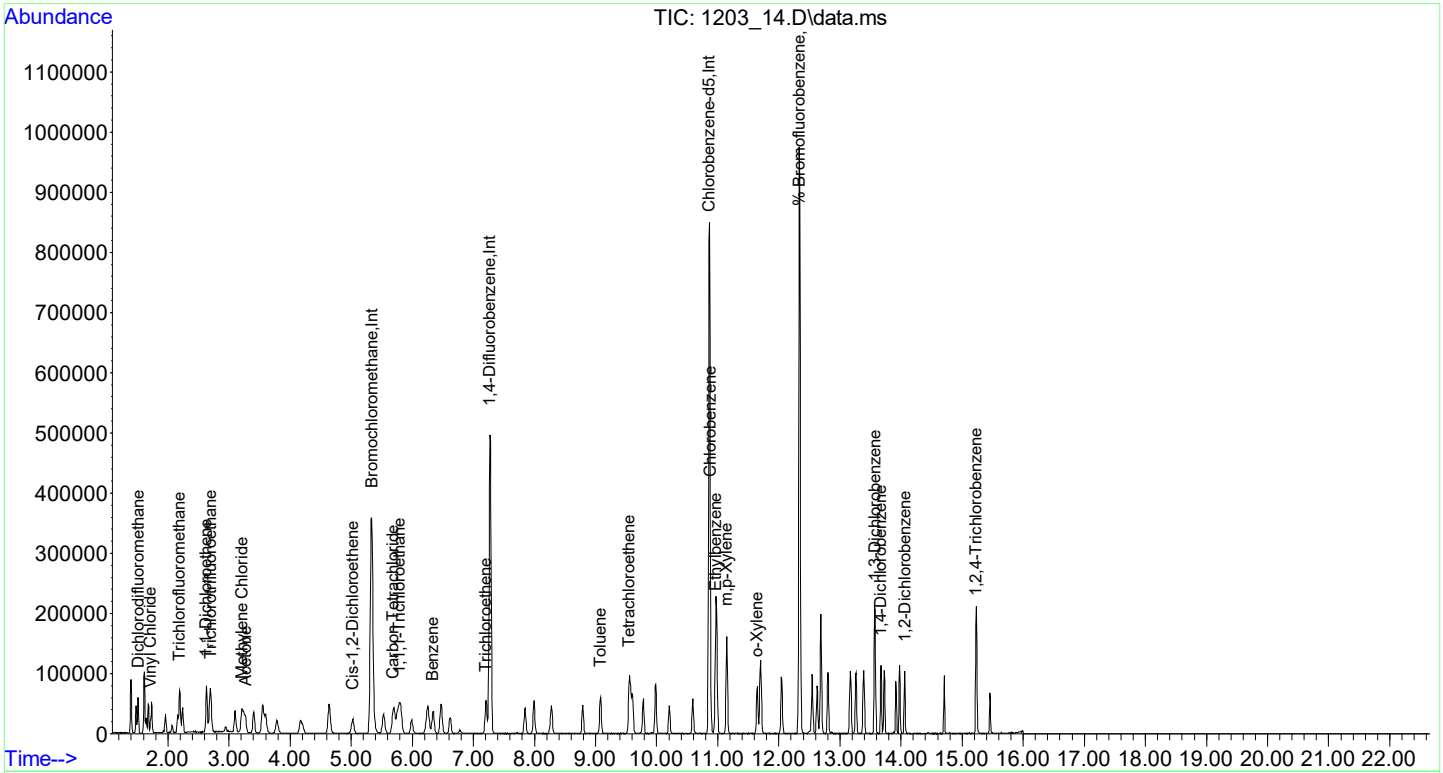
Quant Time: Dec 04 08:36:26 2020
Quant Method : H:\AIR2020\CHEM24\METHODS\24AIR_1203.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Fri Dec 04 08:35:56 2020
Response via : Initial Calibration

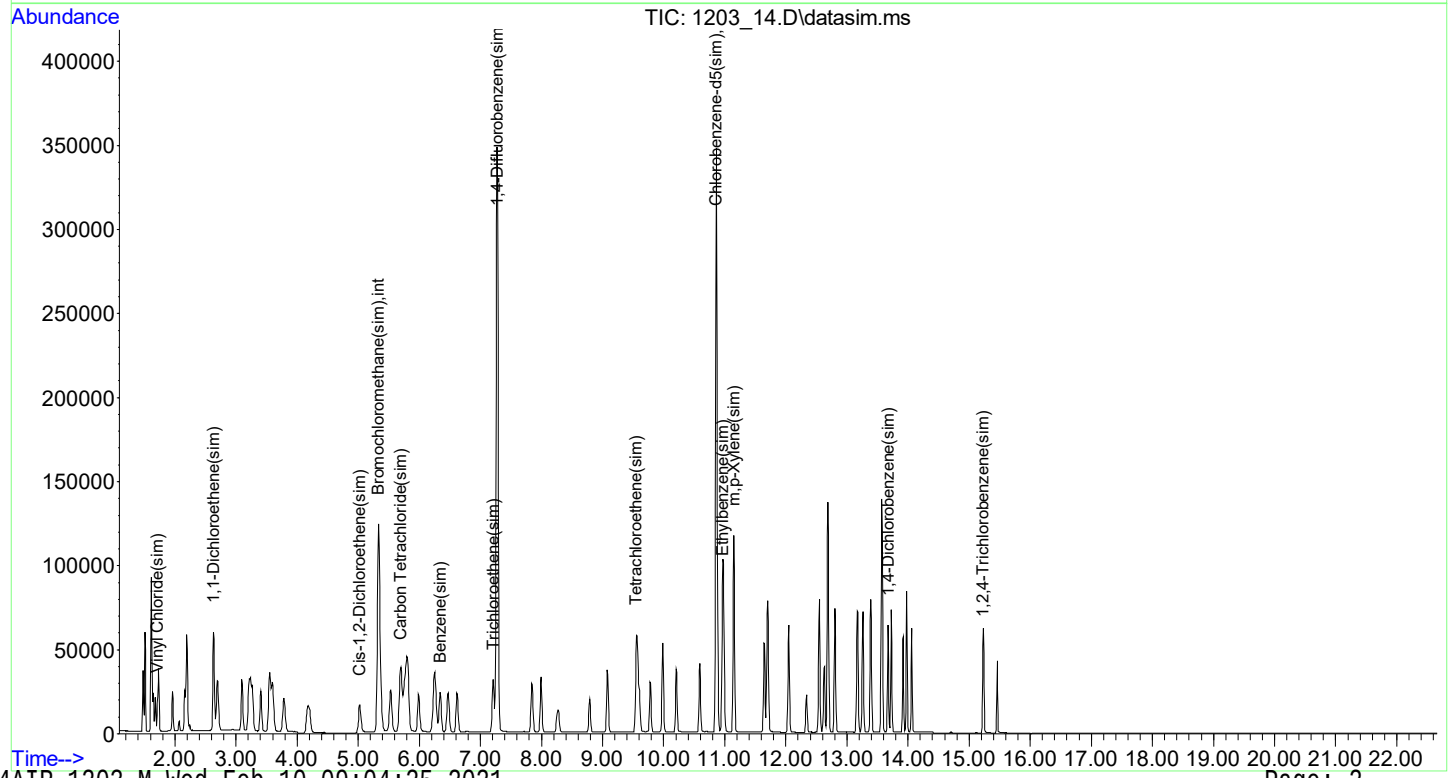
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	5.335	130	151794	10.000	ng		0.00
36) 1,4-Difluorobenzene	7.271	114	446858	10.000	ng		0.00
53) Chlorobenzene-d5	10.857	82	200160	10.000	ng		0.00
80) Bromochloromethane(sim)	5.331	130	157374	10.000	ng	#	0.00
95) 1,4-Difluorobenzene(sim)	7.271	114	446858	10.000	ng		0.00
105) Chlorobenzene-d5(sim)	10.857	82	200160	10.000	ng		0.00
System Monitoring Compounds							
62) % Bromofluorobenzene	12.335	95	299335	9.808	ppbv		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 98.10%				
Target Compounds							Qvalue
3) Dichlorodifluoromethane	1.513	85	36635	1.056	ppbv		98
6) Vinyl Chloride	1.718	62	14287	1.051	ppbv		93
12) Acetone	3.272	43	47474	1.047	ppbv		95
13) Trichlorofluoromethane	2.191	101	51287	1.016	ppbv		95
16) 1,1-Dichloroethene	2.629	61	28729	1.031	ppbv		96
17) Methylene Chloride	3.210	49	24411	0.983	ppbv		94
21) Trichlorotrifluoroethane	2.697	101	33625	1.024	ppbv		97
26) Cis-1,2-Dichloroethene	5.025	61	18036	0.995	ppbv#		87
32) 1,1,1-Trichloroethane	5.789	97	35951	1.003	ppbv		85
33) Benzene	6.339	78	29405	1.017	ppbv		94
34) Carbon Tetrachloride	5.688	117	42827	0.955	ppbv		98
39) Trichloroethene	7.202	130	21204	0.985	ppbv		98
48) Toluene	9.082	91	39206	0.960	ppbv		97
52) Tetrachloroethene	9.552	166	22896	0.940	ppbv		89
55) Chlorobenzene	10.877	112	38428	0.988	ppbv#		36
56) Ethylbenzene	10.966	91	53863	0.963	ppbv		96
57) m,p-Xylene	11.145	91	85543	2.004	ppbv		95
61) o-Xylene	11.646	91	43193	0.974	ppbv		96
71) 1,3-Dichlorobenzene	13.575	146	37977	0.961	ppbv		98
72) 1,4-Dichlorobenzene	13.672	146	36994	0.978	ppbv		99
75) 1,2-Dichlorobenzene	14.061	146	30156	0.942	ppbv		96
77) 1,2,4-Trichlorobenzene	15.227	180	17093	1.031	ppbv		89
82) Vinyl Chloride(sim)	1.714	62	15645	1.023	ppbv		98
86) Benzene(sim)	6.342	78	32535	0.939	ppbv		96
87) Carbon Tetrachloride(sim)	5.688	117	42827	0.997	ppbv		90
88) 1,1-Dichloroethene(sim)	2.632	61	29968	0.991	ppbv		99
92) Cis-1,2-Dichloroethene...	5.021	61	21728	1.005	ppbv#		92
98) Trichloroethene(sim)	7.212	130	22298	0.971	ppbv		97
104) Tetrachloroethene(sim)	9.554	166	24398	0.963	ppbv		100
108) Ethylbenzene(sim)	10.963	91	62071	0.972	ppb		100
109) m,p-Xylene(sim)	11.145	91	85543	2.010	ppbv		94
116) 1,4-Dichlorobenzene(sim)	13.675	146	40843	0.969	ppbv		100
121) 1,2,4-Trichlorobenzene...	15.227	180	16900	1.023	ppbv		89

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

Data Path : H:\AIR2020\CHEM24\12DEC\03\
Data File : 1203_14.D
Acq On : 3 Dec 2020 10:00 pm
Operator : Keith
Client ID : ICAL 1
Lab ID : 1ppb
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Dec 04 08:36:26 2020
Quant Method : H:\AIR2020\CHEM24\METHODS\24AIR_1203.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Fri Dec 04 08:35:56 2020
Response via : Initial Calibration





Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2020\CHEM24\12DEC\03\
Data File : 1203_15.D
Acq On : 3 Dec 2020 10:33 pm
Operator : Keith
Client ID : ICAL 10
Lab ID : 10ppb
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Dec 04 08:36:42 2020
Quant Method : H:\AIR2020\CHEM24\METHODS\24AIR_1203.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Fri Dec 04 08:35:56 2020
Response via : Initial Calibration

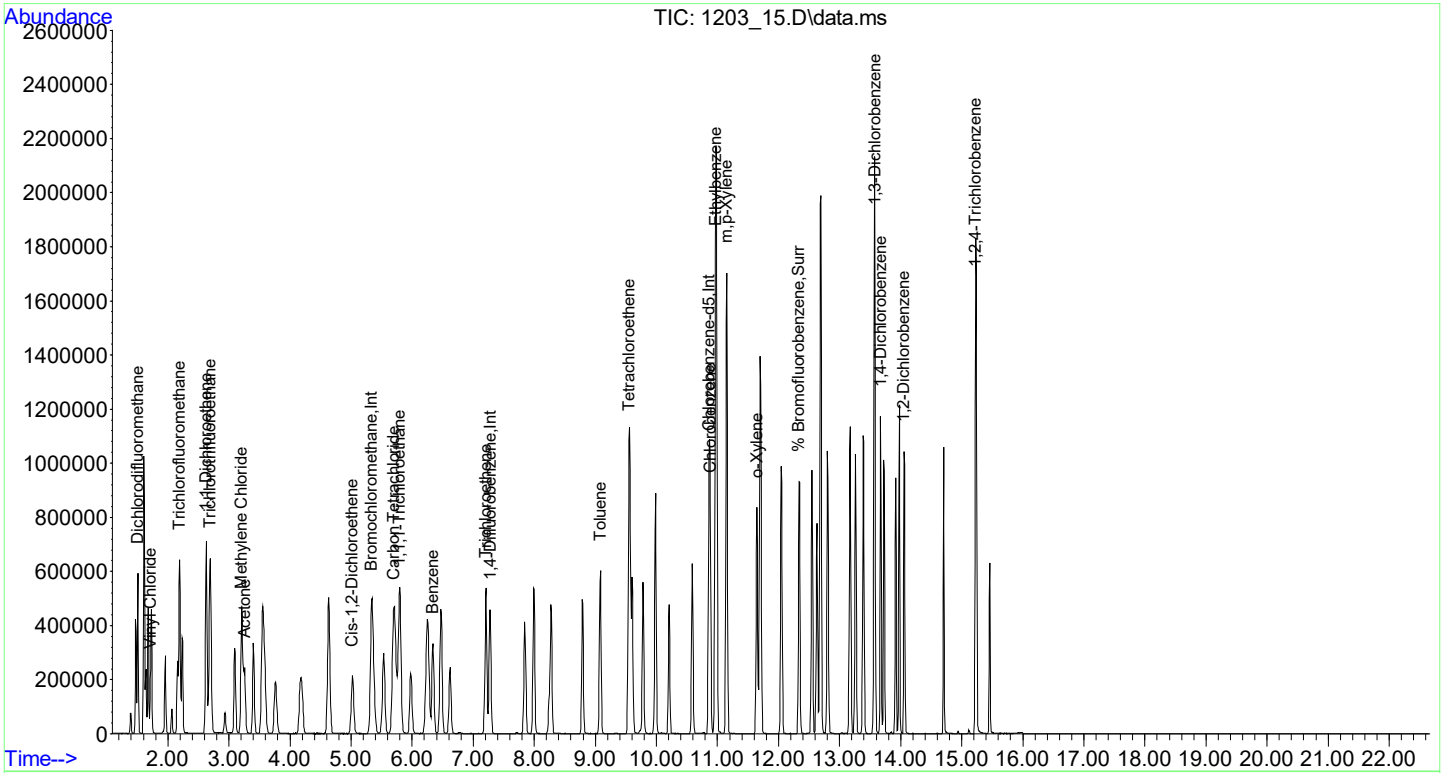
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	5.335	130	140406	10.000	ng		0.00
36) 1,4-Difluorobenzene	7.277	114	408118	10.000	ng		0.00
53) Chlorobenzene-d5	10.864	82	189392	10.000	ng		0.00
80) Bromochloromethane(sim)	5.338	130	145887	10.000	ng	#	0.00
95) 1,4-Difluorobenzene(sim)	7.277	114	408118	10.000	ng		0.00
105) Chlorobenzene-d5(sim)	10.864	82	189392	10.000	ng		0.00
System Monitoring Compounds							
62) % Bromofluorobenzene	12.335	95	293344	10.158	ppbv		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 101.60%				
Target Compounds							Qvalue
3) Dichlorodifluoromethane	1.506	85	345412	10.765	ppbv		97
6) Vinyl Chloride	1.711	62	128141	10.189	ppbv		92
12) Acetone	3.258	43	403917	9.635	ppbv		95
13) Trichlorofluoromethane	2.191	101	470820	10.084	ppbv#		95
16) 1,1-Dichloroethene	2.629	61	258839	10.044	ppbv		97
17) Methylene Chloride	3.204	49	228412	9.947	ppbv		93
21) Trichlorotrifluoroethane	2.691	101	301076	9.912	ppbv		97
26) Cis-1,2-Dichloroethene	5.018	61	169430	10.110	ppbv#		87
32) 1,1,1-Trichloroethane	5.789	97	331910	10.013	ppbv		85
33) Benzene	6.339	78	266455	9.967	ppbv		92
34) Carbon Tetrachloride	5.695	117	417404	10.059	ppbv		99
39) Trichloroethene	7.209	130	201113	10.234	ppbv		98
48) Toluene	9.082	91	394035	10.562	ppbv		99
52) Tetrachloroethene	9.552	166	230452	10.362	ppbv		88
55) Chlorobenzene	10.884	112	369880	10.049	ppbv#		30
56) Ethylbenzene	10.966	91	547880	10.351	ppbv		96
57) m,p-Xylene	11.152	91	874864	21.657	ppbv		95
61) o-Xylene	11.646	91	446373	10.636	ppbv		95
71) 1,3-Dichlorobenzene	13.575	146	382111	10.219	ppbv		99
72) 1,4-Dichlorobenzene	13.672	146	369715	10.328	ppbv		99
75) 1,2-Dichlorobenzene	14.055	146	316121	10.439	ppbv		94
77) 1,2,4-Trichlorobenzene	15.227	180	167120	10.657	ppbv		90
82) Vinyl Chloride(sim)	1.714	62	139401	9.830	ppbv		97
86) Benzene(sim)	6.342	78	296531	9.237	ppbv		97
87) Carbon Tetrachloride(sim)	5.695	117	417295	10.480	ppbv		91
88) 1,1-Dichloroethene(sim)	2.625	61	272851	9.729	ppbv		99
92) Cis-1,2-Dichloroethene...	5.021	61	207118	10.336	ppbv#		91
98) Trichloroethene(sim)	7.212	130	215823	10.292	ppbv		98
104) Tetrachloroethene(sim)	9.554	166	243649	10.530	ppbv		100
108) Ethylbenzene(sim)	10.963	91	614237	10.161	ppb		99
109) m,p-Xylene(sim)	11.152	91	874865	21.721	ppbv#		94
116) 1,4-Dichlorobenzene(sim)	13.675	146	425518	10.673	ppbv		99
121) 1,2,4-Trichlorobenzene...	15.227	180	167120	10.693	ppbv		90

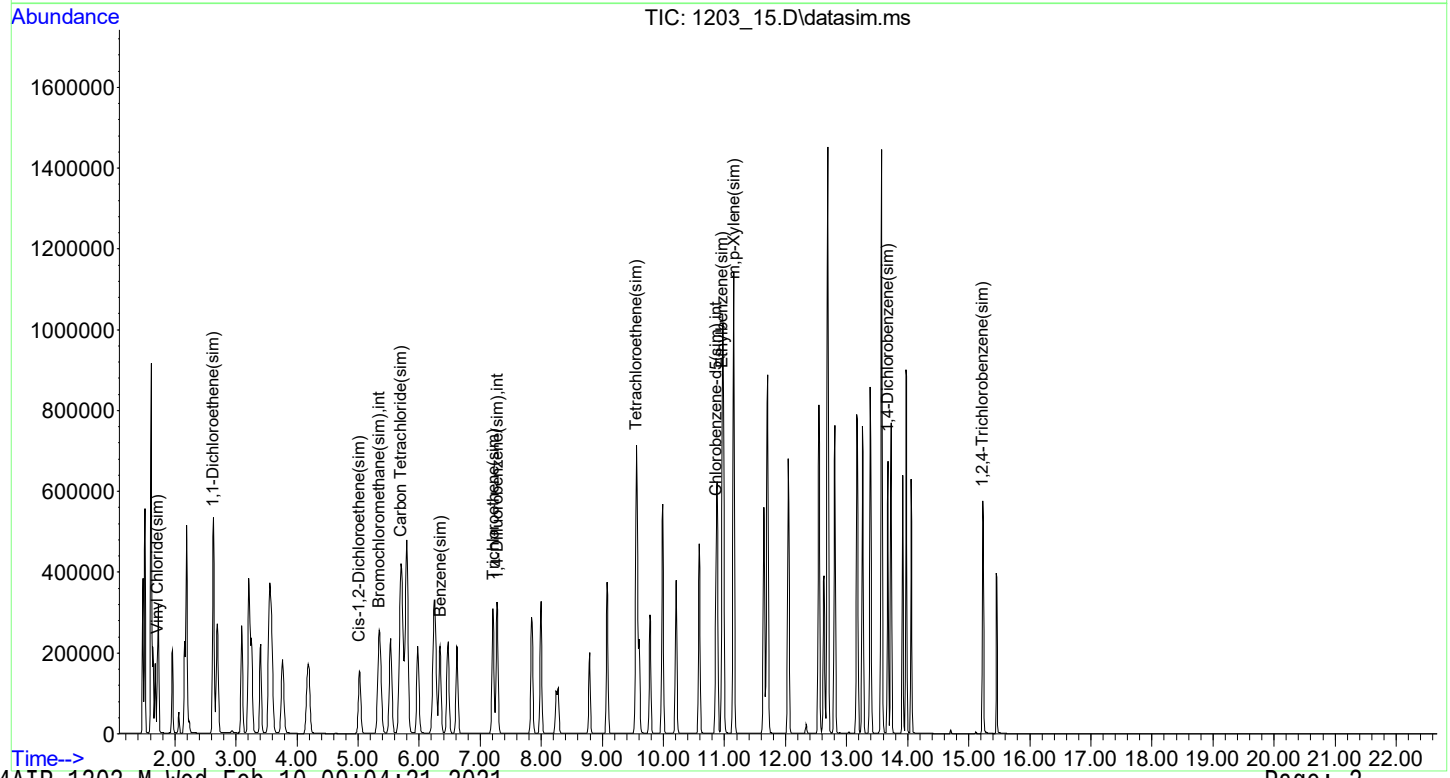
(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2020\CHEM24\12DEC\03\
Data File : 1203_15.D
Acq On : 3 Dec 2020 10:33 pm
Operator : Keith
Client ID : ICAL 10
Lab ID : 10ppb
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Dec 04 08:36:42 2020
Quant Method : H:\AIR2020\CHEM24\METHODS\24AIR_1203.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Fri Dec 04 08:35:56 2020
Response via : Initial Calibration





7A
AIR CONTINUING CALIBRATION CHECK

Lab Name: Phoenix Environmental Labs Client:

Lab Code: Phoenix Case No.: SAS No.: SDG No.: GCH28478

Instrument: CHEM24 Calibration Date: 12/09/20 Time: 16:06

Lab File Id: 1209_02.D Init. Calib. Date(s): 12/03/20 12/03/20

Heated Purge (Y/N): Y Init. Calib. Times: 15:48 22:33

GC Column: RTX-VMS Method File: 24AIR_1203.M

COMPOUND	RRF	RRF1	RRF MIN	%D	% D LIMITS
Dichlorodifluoromethane	2.285	2.435		-6.6	30
Vinyl Chloride	0.896	0.901		-0.6	30
Acetone	2.986	3.057		-2.4	30
Trichlorofluoromethane	3.325	3.459		-4.0	30
1,1-Dichloroethene	1.835	1.864		-1.6	30
Methylene Chloride	1.635	1.896		-16.0	30
Trichlorotrifluoroethane	2.163	2.195		-1.5	30
Cis-1,2-Dichloroethene	1.194	1.389		-16.3	30
1,1,1-Trichloroethane	2.361	2.435		-3.1	30
Benzene	1.904	1.853		2.7	30
Carbon Tetrachloride	2.955	2.958		-0.1	30
Trichloroethene	0.482	0.458		5.0	30
Toluene	0.914	0.865		5.4	30
Tetrachloroethene	0.545	0.528		3.1	30
Chlorobenzene	1.944	1.893		2.6	30
Ethylbenzene	2.795	2.806		-0.4	30
m,p-Xylene	2.133	1.639		23.2	30
o-Xylene	2.216	2.036		8.1	30
1,3-Dichlorobenzene	1.974	1.785		9.6	30
1,4-Dichlorobenzene	1.890	1.689		10.6	30
1,2-Dichlorobenzene	1.599	1.423		11.0	30
1,2,4-Trichlorobenzene	0.828	0.357		56.9 #	30
Vinyl Chloride(sim)	0.972	0.919		5.5	30
Benzene(sim)	2.201	1.963		10.8	30
Carbon Tetrachloride(sim)	2.729	2.830		-3.7	30
1,1-Dichloroethene(sim)	1.922	1.910		0.6	30
Cis-1,2-Dichloroethene(sim)	1.374	1.277		7.1	30
Trichloroethene(sim)	0.514	0.492		4.3	30
Tetrachloroethene(sim)	0.567	0.553		2.5	30
Ethylbenzene(sim)	3.192	3.101		2.9	30
m,p-Xylene(sim)	2.127	2.049		3.7	30
1,4-Dichlorobenzene(sim)	2.105	1.913		9.1	30
1,2,4-Trichlorobenzene(sim)	0.825	0.348		57.8 #	30
% Bromofluorobenzene	1.525	1.487		2.5	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:\AIR2020\CHEM24\12DEC\09\
Data File : 1209_02.D
Acq On : 9 Dec 2020 4:06 pm
Operator : Keith
Client ID : BFB TUNE - CCAL 1
Lab ID : 1ppb cc - 1ppb cc
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 10 08:58:01 2020
Quant Method : H:\AIR2020\CHEM24\METHODS\24AIR_1203.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Fri Dec 04 08:35:56 2020
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	96
3		Dichlorodifluoromethane	2.285	2.435	-6.6	
6		Vinyl Chloride	0.896	0.901	-0.6	
12		Acetone	2.986	3.057	-2.4	
13		Trichlorofluoromethane	3.325	3.459	-4.0	
16		1,1-Dichloroethene	1.835	1.864	-1.6	
17		Methylene Chloride	1.635	1.896	-16.0	
21		Trichlorotrifluoroethane	2.163	2.195	-1.5	
26		Cis-1,2-Dichloroethene	1.194	1.389	-16.3	
32		1,1,1-Trichloroethane	2.361	2.435	-3.1	
33		Benzene	1.904	1.853	2.7	
34		Carbon Tetrachloride	2.955	2.958	-0.1	
36	Int	1,4-Difluorobenzene	1.000	1.000	0.0	95
39		Trichloroethene	0.482	0.458	5.0	
48		Toluene	0.914	0.865	5.4	
52		Tetrachloroethene	0.545	0.528	3.1	
53	Int	Chlorobenzene-d5	1.000	1.000	0.0	96
55		Chlorobenzene	1.944	1.893	2.6	
56		Ethylbenzene	2.795	2.806	-0.4	
57		m,p-Xylene	2.133	1.639	23.2	
61		o-Xylene	2.216	2.036	8.1	
62	Surr	% Bromofluorobenzene	1.525	1.487	2.5	
71		1,3-Dichlorobenzene	1.974	1.785	9.6	
72		1,4-Dichlorobenzene	1.890	1.689	10.6	
75		1,2-Dichlorobenzene	1.599	1.423	11.0	
77		1,2,4-Trichlorobenzene	0.828	0.357	56.9#	
80	int	Bromochloromethane(sim)	1.000	1.000	0.0	97
82		Vinyl Chloride(sim)	0.972	0.919	5.5	
86		Benzene(sim)	2.201	1.963	10.8	
87		Carbon Tetrachloride(sim)	2.729	2.830	-3.7	
88		1,1-Dichloroethene(sim)	1.922	1.910	0.6	
92		Cis-1,2-Dichloroethene(sim)	1.374	1.277	7.1	
95	int	1,4-Difluorobenzene(sim)	1.000	1.000	0.0	95
98		Trichloroethene(sim)	0.514	0.492	4.3	
104		Tetrachloroethene(sim)	0.567	0.553	2.5	
105	int	Chlorobenzene-d5(sim)	1.000	1.000	0.0	96
108		Ethylbenzene(sim)	3.192	3.101	2.9	
109		m,p-Xylene(sim)	2.127	2.049	3.7	
116		1,4-Dichlorobenzene(sim)	2.105	1.913	9.1	
121		1,2,4-Trichlorobenzene(sim)	0.825	0.348	57.8#	

(#)=Out of Range l=linear, lf=liner(0,0), q=quadratic, qf=quadratic(0,0)
Laboratory Warning Limits Out = 0

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2020\CHEM24\12DEC\09\
Data File : 1209_02.D
Acq On : 9 Dec 2020 4:06 pm
Operator : Keith
Client ID : BFB TUNE - CCAL 1
Lab ID : 1ppb cc - 1ppb cc
ALS Vial : 2 Sample Multiplier: 1

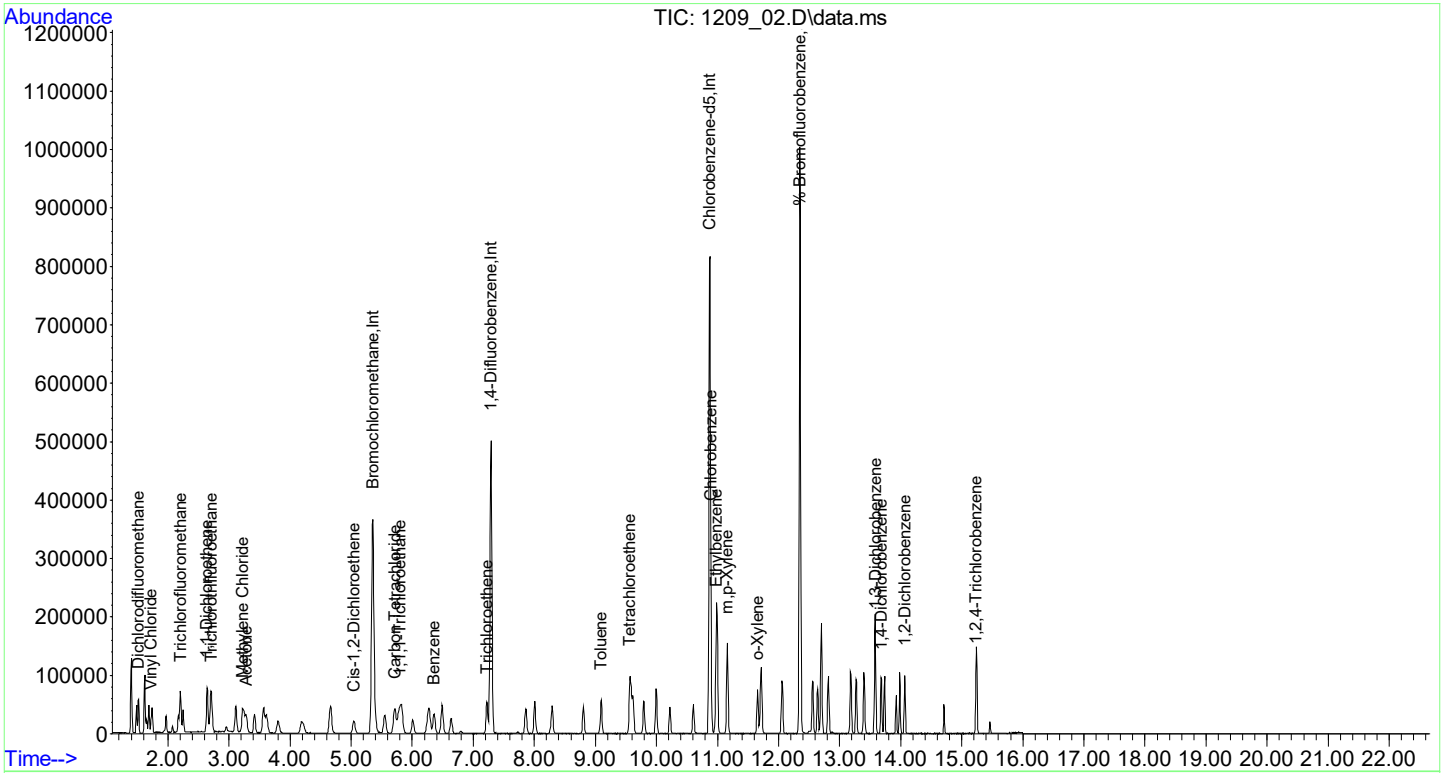
Quant Time: Dec 10 08:58:01 2020
Quant Method : H:\AIR2020\CHEM24\METHODS\24AIR_1203.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Fri Dec 04 08:35:56 2020
Response via : Initial Calibration

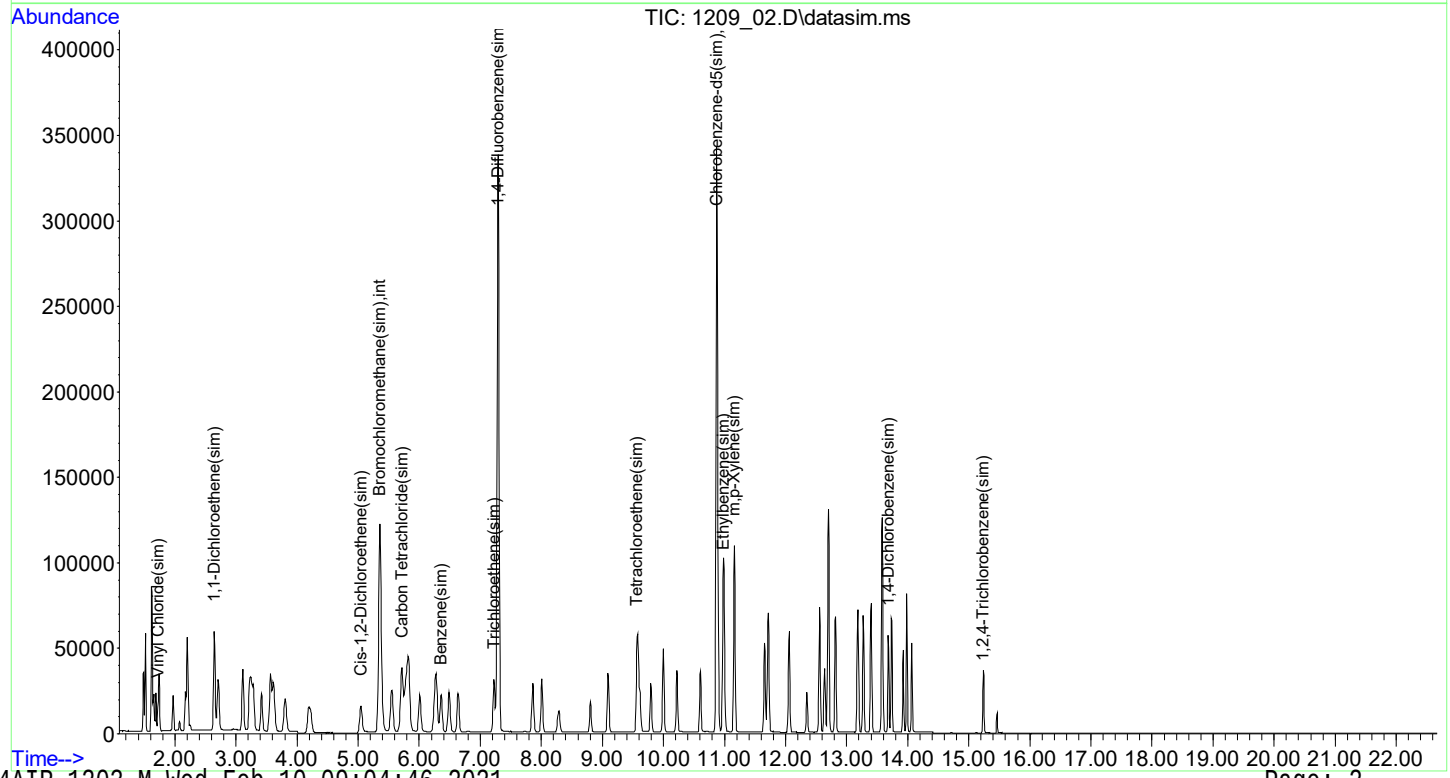
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	5.356	130	145423	10.000	ng		0.02
36) 1,4-Difluorobenzene	7.291	114	424306	10.000	ng		0.02
53) Chlorobenzene-d5	10.870	82	191708	10.000	ng		0.00
80) Bromochloromethane(sim)	5.352	130	151994	10.000	ng	#	0.02
95) 1,4-Difluorobenzene(sim)	7.291	114	424306	10.000	ng		0.02
105) Chlorobenzene-d5(sim)	10.870	82	191708	10.000	ng		0.00
System Monitoring Compounds							
62) % Bromofluorobenzene	12.348	95	285060	9.752	ppbv		0.01
Spiked Amount 10.000	Range 70 - 130		Recovery = 97.50%				
Target Compounds							Qvalue
3) Dichlorodifluoromethane	1.519	85	35409	1.065	ppbv		94
6) Vinyl Chloride	1.725	62	13106	1.006	ppbv		85
12) Acetone	3.285	43	44453	1.024	ppbv#		94
13) Trichlorofluoromethane	2.204	101	50299	1.040	ppbv		97
16) 1,1-Dichloroethene	2.642	61	27110	1.016	ppbv		97
17) Methylene Chloride	3.224	49	27566	1.159	ppbv		90
21) Trichlorotrifluoroethane	2.711	101	31918	1.015	ppbv		95
26) Cis-1,2-Dichloroethene	5.046	61	20194	1.163	ppbv#		90
32) 1,1,1-Trichloroethane	5.803	97	35410	1.031	ppbv		86
33) Benzene	6.360	78	26944	0.973	ppbv		95
34) Carbon Tetrachloride	5.717	117	43009	1.001	ppbv		96
39) Trichloroethene	7.229	130	19446	0.952	ppbv		95
48) Toluene	9.097	91	36698	0.946	ppbv		98
52) Tetrachloroethene	9.566	166	22385	0.968	ppbv		88
55) Chlorobenzene	10.891	112	36292	0.974	ppbv#		38
56) Ethylbenzene	10.980	91	53789	1.004	ppbv		99
57) m,p-Xylene	11.158	91	78575	1.922	ppbv		96
61) o-Xylene	11.659	91	39025	0.919	ppbv		95
71) 1,3-Dichlorobenzene	13.587	146	34226	0.904	ppbv		99
72) 1,4-Dichlorobenzene	13.685	146	32383	0.894	ppbv		96
75) 1,2-Dichlorobenzene	14.068	146	27284	0.890	ppbv		95
77) 1,2,4-Trichlorobenzene	15.232	180	6851m	0.432	ppbv		88
82) Vinyl Chloride(sim)	1.721	62	13961	0.945	ppbv		97
86) Benzene(sim)	6.363	78	29844	0.892	ppbv		99
87) Carbon Tetrachloride(sim)	5.717	117	43009	1.037	ppbv		88
88) 1,1-Dichloroethene(sim)	2.645	61	29038	0.994	ppbv		98
92) Cis-1,2-Dichloroethene...	5.049	61	19410	0.930	ppbv		95
98) Trichloroethene(sim)	7.225	130	20871	0.957	ppbv		97
104) Tetrachloroethene(sim)	9.569	166	23448	0.975	ppbv		99
108) Ethylbenzene(sim)	10.976	91	59456	0.972	ppb		100
109) m,p-Xylene(sim)	11.158	91	78575	1.927	ppbv		95
116) 1,4-Dichlorobenzene(sim)	13.681	146	36679	0.909	ppbv		99
121) 1,2,4-Trichlorobenzene...	15.232	180	6665	0.421	ppbv		83

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

Data Path : H:\AIR2020\CHEM24\12DEC\09\
Data File : 1209_02.D
Acq On : 9 Dec 2020 4:06 pm
Operator : Keith
Client ID : BFB TUNE - CCAL 1
Lab ID : 1ppb cc - 1ppb cc
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 10 08:58:01 2020
Quant Method : H:\AIR2020\CHEM24\METHODS\24AIR_1203.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Fri Dec 04 08:35:56 2020
Response via : Initial Calibration





1

AIR ANALYSIS DATA SHEET

CLIENT ID: CH28475 LCSD

Client: WALDENE-IPARK Lab: Phoenix Env. Labs

SDG No.: GCH28478 Lab Sample ID: CH28475 LCS

Canister: LCS Lab File ID: 1209_26.D

Instrument: CHEM24 Column: RTX-VMS Date Received: 12/09/20

Purge Volume 200 (cc) Date Analyzed: 12/10/20

Matrix: AIR Dilution Factor: 1

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
75-71-8	Dichlorodifluoromethane	10.7		0.200	0.200	r
75-01-4	Vinyl Chloride	10.6		0.020	0.020	r
67-64-1	Acetone	11.0		1.00	1.00	r
75-69-4	Trichlorofluoromethane	13.0		0.150	0.150	r
75-35-4	1,1-Dichloroethene	12.7		0.050	0.050	r
75-09-2	Methylene Chloride	12.9		0.400	0.400	r
76-13-1	Trichlorotrifluoroethane	12.3		0.150	0.150	r
156-59-2	Cis-1,2-Dichloroethene	10.6		0.050	0.050	r
71-55-6	1,1,1-Trichloroethane	11.1		0.200	0.200	r
71-43-2	Benzene	10.1		0.050	0.050	r
56-23-5	Carbon Tetrachloride	11.7		0.020	0.020	r
79-01-6	Trichloroethene	10.9		0.037	0.037	r
108-88-3	Toluene	10.8		0.200	0.200	r
127-18-4	Tetrachloroethene	10.8		0.100	0.100	r
108-90-7	Chlorobenzene	10.6		0.200	0.200	r
100-41-4	Ethylbenzene	10.9		0.150	0.150	r
179601-23-1	m,p-Xylene	23.0		0.150	0.150	r
95-47-6	o-Xylene	11.4		0.150	0.150	r
541-73-1	1,3-Dichlorobenzene	11.4		0.150	0.150	r
106-46-7	1,4-Dichlorobenzene	11.6		0.150	0.150	r
95-50-1	1,2-Dichlorobenzene	11.8		0.150	0.150	r
120-82-1	1,2,4-Trichlorobenzene	9.25		0.250	0.250	r

FORM I AIR

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

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2020\CHEM24\12DEC\09\
Data File : 1209_26.D
Acq On : 10 Dec 2020 10:21 am
Operator : Keith
Client ID : CH28475 LCSD
Lab ID : CH28475 LCSD
ALS Vial : 26 Sample Multiplier: 1

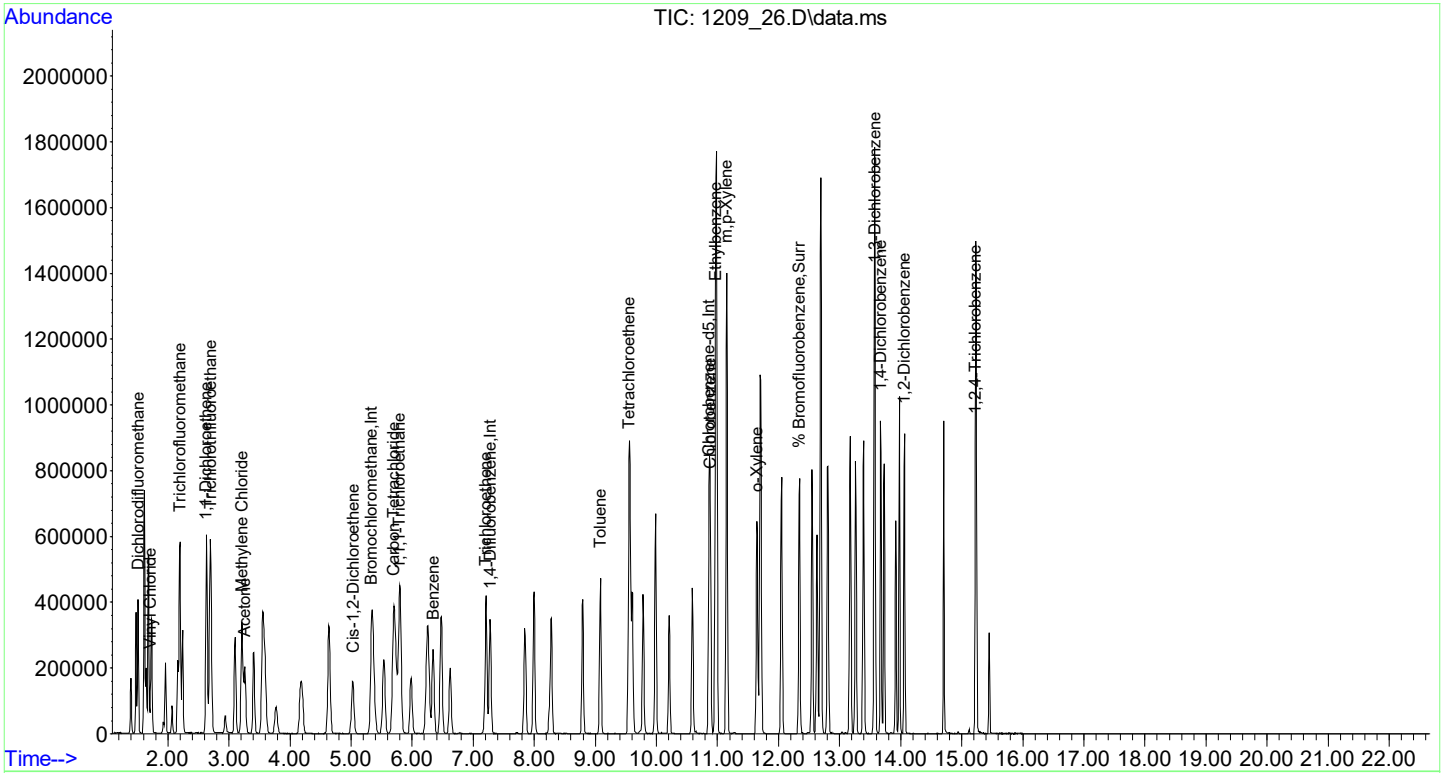
Quant Time: Dec 10 10:54:47 2020
Quant Method : H:\AIR2020\CHEM24\METHODS\24AIR_1203.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Fri Dec 04 08:35:56 2020
Response via : Initial Calibration

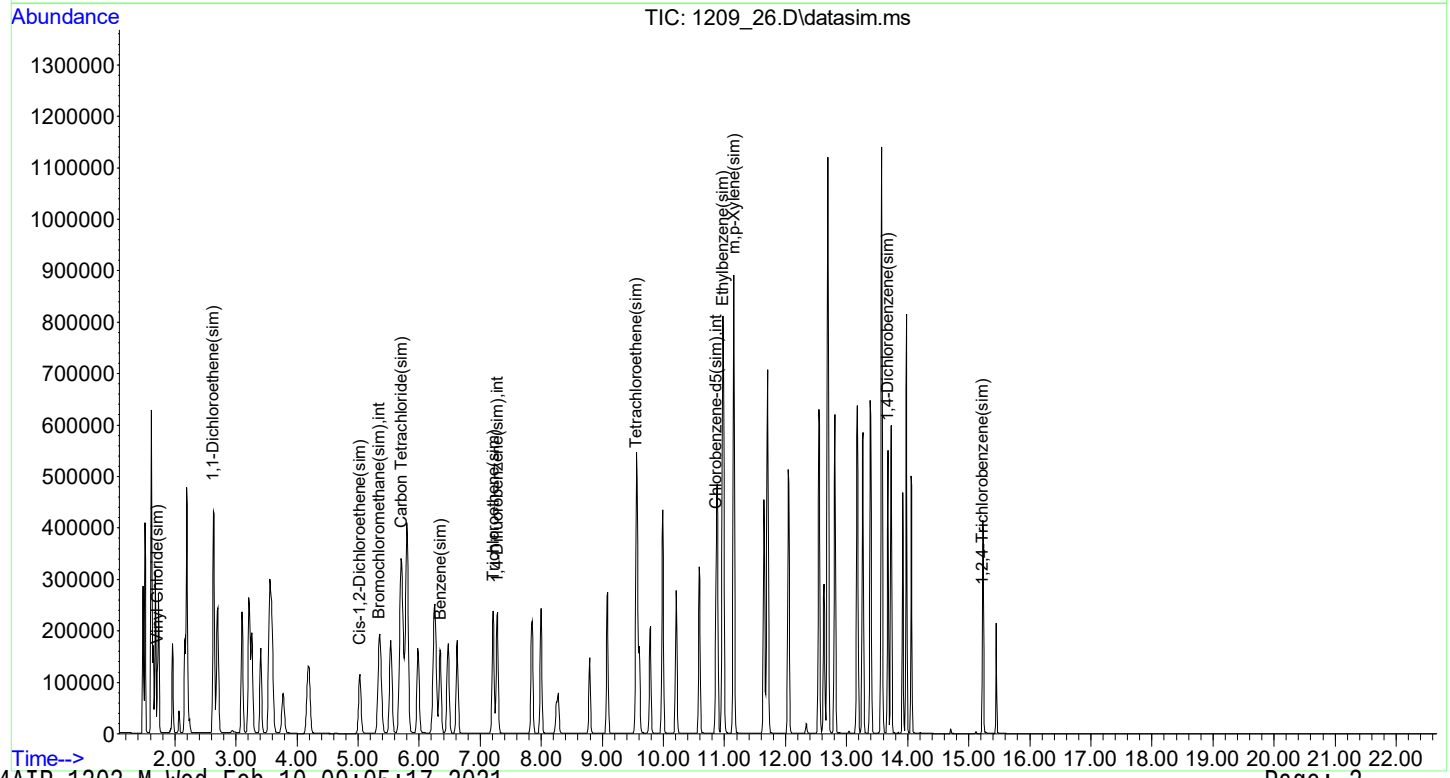
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	5.335	130	100081	10.000	ng		0.00
36) 1,4-Difluorobenzene	7.277	114	287273	10.000	ng		0.00
53) Chlorobenzene-d5	10.864	82	135487	10.000	ng		0.00
80) Bromochloromethane(sim)	5.338	130	106270	10.000	ng	#	0.00
95) 1,4-Difluorobenzene(sim)	7.277	114	287273	10.000	ng		0.00
105) Chlorobenzene-d5(sim)	10.864	82	135487	10.000	ng		0.00
System Monitoring Compounds							
62) % Bromofluorobenzene	12.342	95	220463	10.671	ppbv		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 106.70%				
Target Compounds							Qvalue
3) Dichlorodifluoromethane	1.513	85	245185	10.720	ppbv		97
6) Vinyl Chloride	1.718	62	95283	10.629	ppbv		90
12) Acetone	3.258	43	327140	10.947	ppbv		94
13) Trichlorofluoromethane	2.198	101	432487	12.995	ppbv		96
16) 1,1-Dichloroethene	2.629	61	233454	12.710	ppbv		95
17) Methylene Chloride	3.210	49	210830	12.881	ppbv		89
21) Trichlorotrifluoroethane	2.697	101	265566	12.266	ppbv		97
26) Cis-1,2-Dichloroethene	5.032	61	126690	10.606	ppbv#		91
32) 1,1,1-Trichloroethane	5.789	97	262867	11.125	ppbv		86
33) Benzene	6.346	78	192586	10.106	ppbv		96
34) Carbon Tetrachloride	5.702	117	345594	11.684	ppbv		97
39) Trichloroethene	7.209	130	150110	10.852	ppbv		97
48) Toluene	9.082	91	282357	10.752	ppbv		97
52) Tetrachloroethene	9.552	166	169668	10.838	ppbv		88
55) Chlorobenzene	10.884	112	277941	10.555	ppbv#		30
56) Ethylbenzene	10.966	91	410968	10.853	ppbv		97
57) m,p-Xylene	11.152	91	663725	22.968	ppbv		94
61) o-Xylene	11.646	91	343079	11.427	ppbv		96
71) 1,3-Dichlorobenzene	13.581	146	303940	11.363	ppbv		98
72) 1,4-Dichlorobenzene	13.672	146	296548	11.580	ppbv		98
75) 1,2-Dichlorobenzene	14.061	146	254480	11.747	ppbv		93
77) 1,2,4-Trichlorobenzene	15.222	180	103725	9.246	ppbv		92
82) Vinyl Chloride(sim)	1.714	62	104990	10.163	ppbv		96
86) Benzene(sim)	6.342	78	213591	9.134	ppbv		96
87) Carbon Tetrachloride(sim)	5.702	117	345594	11.915	ppbv		89
88) 1,1-Dichloroethene(sim)	2.632	61	247983	12.139	ppbv		97
92) Cis-1,2-Dichloroethene...	5.028	61	150286	10.296	ppbv#		90
98) Trichloroethene(sim)	7.212	130	162032	10.977	ppbv		98
104) Tetrachloroethene(sim)	9.554	166	181512	11.145	ppbv		98
108) Ethylbenzene(sim)	10.969	91	463464	10.717	ppb		100
109) m,p-Xylene(sim)	11.152	91	663811	23.038	ppbv		94
116) 1,4-Dichlorobenzene(sim)	13.675	146	341975	11.990	ppbv		100
121) 1,2,4-Trichlorobenzene...	15.222	180	103787	9.283	ppbv		89

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

Data Path : H:\AIR2020\CHEM24\12DEC\09\
Data File : 1209_26.D
Acq On : 10 Dec 2020 10:21 am
Operator : Keith
Client ID : CH28475 LCSD
Lab ID : CH28475 LCSD
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Dec 10 10:54:47 2020
Quant Method : H:\AIR2020\CHEM24\METHODS\24AIR_1203.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Fri Dec 04 08:35:56 2020
Response via : Initial Calibration





1

AIR ANALYSIS DATA SHEET

CLIENT ID: CH28475 LCS

Client: WALDENE-IPARK Lab: Phoenix Env. Labs

SDG No.: GCH28478 Lab Sample ID: CH28475 LCS

Canister: LCS Lab File ID: 1209_27.D

Instrument: CHEM24 Column: RTX-VMS Date Received: 12/09/20

Purge Volume 200 (cc) Date Analyzed: 12/10/20

Matrix: AIR Dilution Factor: 1

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
75-71-8	Dichlorodifluoromethane	11.0		0.200	0.200	r
75-01-4	Vinyl Chloride	11.4		0.020	0.020	r
67-64-1	Acetone	10.4		1.00	1.00	r
75-69-4	Trichlorofluoromethane	12.8		0.150	0.150	r
75-35-4	1,1-Dichloroethene	12.6		0.050	0.050	r
75-09-2	Methylene Chloride	12.5		0.400	0.400	r
76-13-1	Trichlorotrifluoroethane	12.0		0.150	0.150	r
156-59-2	Cis-1,2-Dichloroethene	10.8		0.050	0.050	r
71-55-6	1,1,1-Trichloroethane	10.9		0.200	0.200	r
71-43-2	Benzene	9.75		0.050	0.050	r
56-23-5	Carbon Tetrachloride	11.2		0.020	0.020	r
79-01-6	Trichloroethene	10.5		0.037	0.037	r
108-88-3	Toluene	10.6		0.200	0.200	r
127-18-4	Tetrachloroethene	10.7		0.100	0.100	r
108-90-7	Chlorobenzene	10.1		0.200	0.200	r
100-41-4	Ethylbenzene	10.5		0.150	0.150	r
179601-23-1	m,p-Xylene	21.9		0.150	0.150	r
95-47-6	o-Xylene	11.0		0.150	0.150	r
541-73-1	1,3-Dichlorobenzene	10.7		0.150	0.150	r
106-46-7	1,4-Dichlorobenzene	10.9		0.150	0.150	r
95-50-1	1,2-Dichlorobenzene	11.0		0.150	0.150	r
120-82-1	1,2,4-Trichlorobenzene	9.33		0.250	0.250	r

FORM I AIR

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

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2020\CHEM24\12DEC\09\
Data File : 1209_27.D
Acq On : 10 Dec 2020 11:16 am
Operator : Keith
Client ID : CH28475 LCS
Lab ID : CH28475 LCS
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Dec 10 12:18:04 2020
Quant Method : H:\AIR2020\CHEM24\METHODS\24AIR_1203.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Fri Dec 04 08:35:56 2020
Response via : Initial Calibration

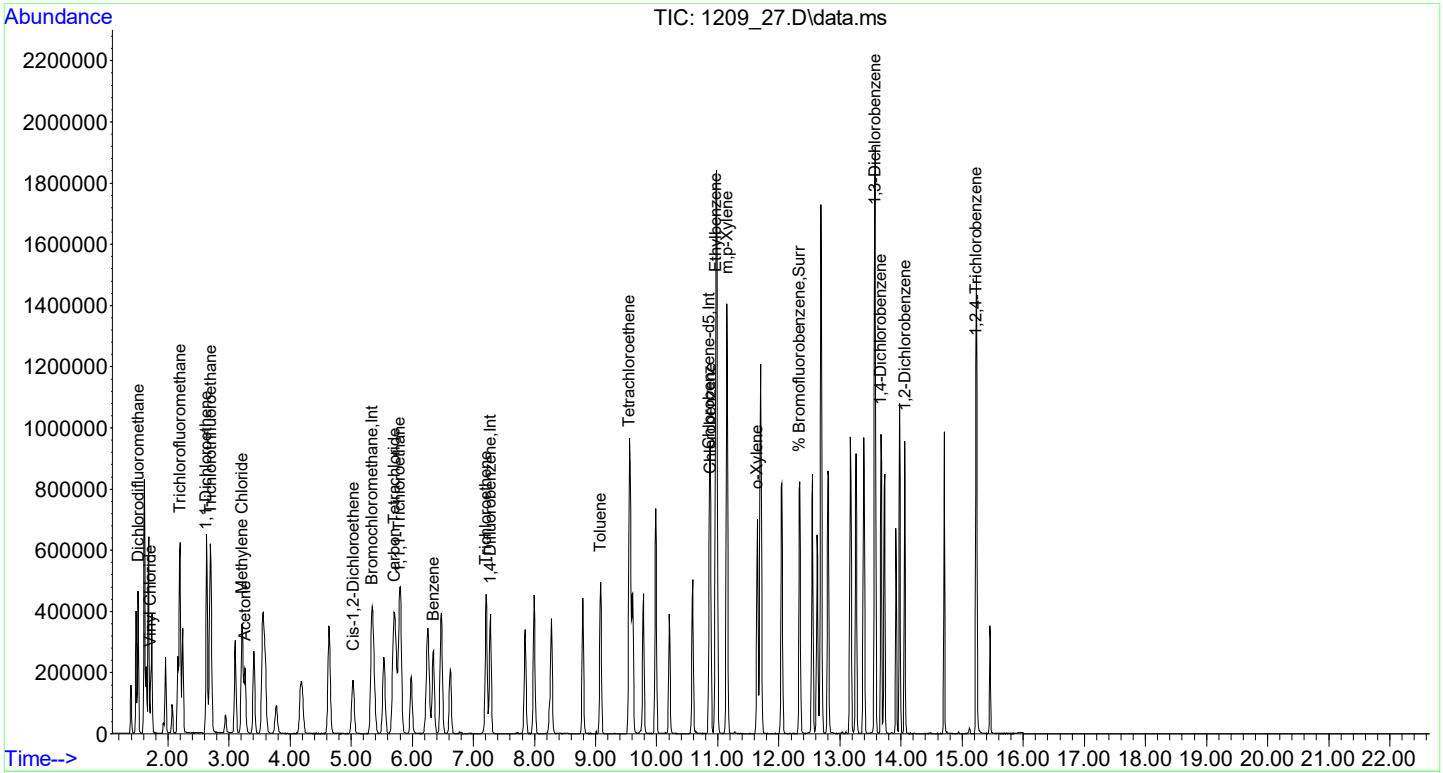
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	5.335	130	109004	10.000	ng		0.00
36) 1,4-Difluorobenzene	7.277	114	318885	10.000	ng		0.00
53) Chlorobenzene-d5	10.863	82	152161	10.000	ng		0.00
80) Bromochloromethane(sim)	5.338	130	116842	10.000	ng	#	0.00
95) 1,4-Difluorobenzene(sim)	7.277	114	318885	10.000	ng		0.00
105) Chlorobenzene-d5(sim)	10.863	82	152161	10.000	ng		0.00
System Monitoring Compounds							
62) % Bromofluorobenzene	12.342	95	236689	10.201	ppbv		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 102.00%				
Target Compounds							Qvalue
3) Dichlorodifluoromethane	1.512	85	272782	10.950	ppbv		97
6) Vinyl Chloride	1.718	62	111693	11.440	ppbv		90
12) Acetone	3.265	43	339644	10.435	ppbv		94
13) Trichlorofluoromethane	2.198	101	465480	12.841	ppbv#		95
16) 1,1-Dichloroethene	2.629	61	252502	12.621	ppbv		94
17) Methylene Chloride	3.210	49	222723	12.494	ppbv		88
21) Trichlorotrifluoroethane	2.697	101	282215	11.968	ppbv		97
26) Cis-1,2-Dichloroethene	5.032	61	140168	10.773	ppbv#		91
32) 1,1,1-Trichloroethane	5.789	97	281439	10.936	ppbv		86
33) Benzene	6.346	78	202394	9.752	ppbv		96
34) Carbon Tetrachloride	5.702	117	362112	11.240	ppbv		98
39) Trichloroethene	7.209	130	160817	10.473	ppbv		96
48) Toluene	9.082	91	307663	10.554	ppbv		98
52) Tetrachloroethene	9.551	166	186516	10.733	ppbv		88
55) Chlorobenzene	10.884	112	299459	10.126	ppbv#		30
56) Ethylbenzene	10.966	91	444460	10.452	ppbv		96
57) m,p-Xylene	11.152	91	709719	21.868	ppbv		94
61) o-Xylene	11.646	91	371867	11.029	ppbv#		96
71) 1,3-Dichlorobenzene	13.574	146	322669	10.741	ppbv		98
72) 1,4-Dichlorobenzene	13.672	146	313808	10.911	ppbv		99
75) 1,2-Dichlorobenzene	14.061	146	268095	11.019	ppbv		93
77) 1,2,4-Trichlorobenzene	15.227	180	117481	9.325	ppbv		92
82) Vinyl Chloride(sim)	1.714	62	121289	10.679	ppbv		96
86) Benzene(sim)	6.342	78	228814	8.899	ppbv		97
87) Carbon Tetrachloride(sim)	5.702	117	362037	11.352	ppbv		90
88) 1,1-Dichloroethene(sim)	2.632	61	264690	11.784	ppbv		98
92) Cis-1,2-Dichloroethene...	5.028	61	161845	10.085	ppbv#		89
98) Trichloroethene(sim)	7.212	130	173790	10.606	ppbv		98
104) Tetrachloroethene(sim)	9.554	166	197073	10.901	ppbv		99
108) Ethylbenzene(sim)	10.969	91	503224	10.362	ppb		100
109) m,p-Xylene(sim)	11.152	91	710306	21.950	ppbv		94
116) 1,4-Dichlorobenzene(sim)	13.675	146	355442	11.097	ppbv		100
121) 1,2,4-Trichlorobenzene...	15.227	180	116454	9.274	ppbv		88

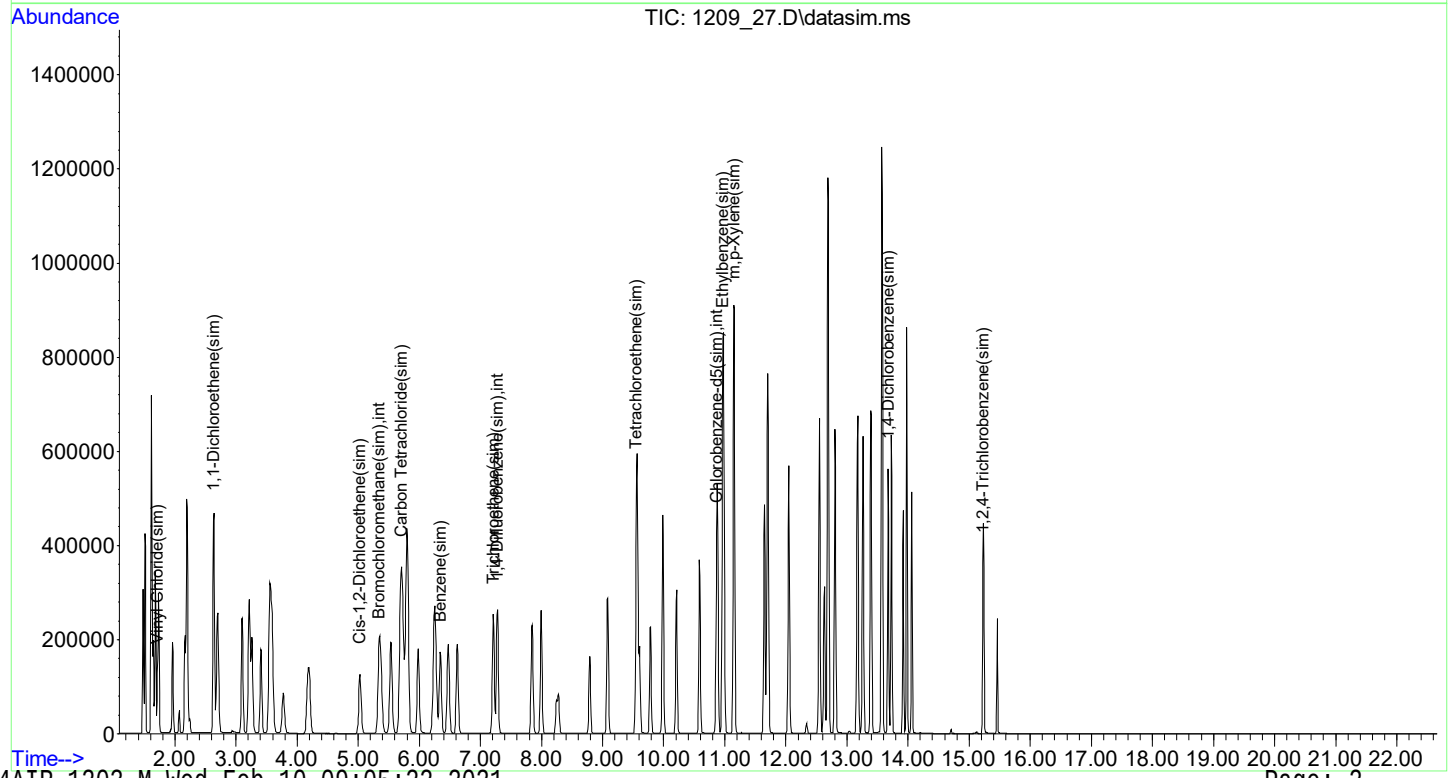
(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2020\CHEM24\12DEC\09\
Data File : 1209_27.D
Acq On : 10 Dec 2020 11:16 am
Operator : Keith
Client ID : CH28475 LCS
Lab ID : CH28475 LCS
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Dec 10 12:18:04 2020
Quant Method : H:\AIR2020\CHEM24\METHODS\24AIR_1203.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Fri Dec 04 08:35:56 2020
Response via : Initial Calibration





1

AIR ANALYSIS DATA SHEET

CLIENT ID: CH28475 QC

Client: WALDENE-IPARK Lab: Phoenix Env. Labs

SDG No.: GCH28478 Lab Sample ID: CH28475

Canister: 19806 Lab File ID: 1209_08.D

Instrument: CHEM24 Column: RTX-VMS Date Received: 12/09/20

Purge Volume 200 (cc) Date Analyzed: 12/09/20

Matrix: AIR Dilution Factor: 1

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
75-71-8	Dichlorodifluoromethane	0.394		0.200	0.200	r
67-64-1	Acetone	1.00	U	1.00	1.00	r
75-69-4	Trichlorofluoromethane	0.295		0.150	0.150	r
75-09-2	Methylene Chloride	0.400	U	0.400	0.400	r
76-13-1	Trichlorotrifluoroethane	0.150	U	0.150	0.150	r
71-55-6	1,1,1-Trichloroethane	0.200	U	0.200	0.200	r
108-88-3	Toluene	0.329		0.200	0.200	r
108-90-7	Chlorobenzene	0.200	U	0.200	0.200	r
95-47-6	o-Xylene	0.150	U	0.150	0.150	r
541-73-1	1,3-Dichlorobenzene	0.150	U	0.150	0.150	r
95-50-1	1,2-Dichlorobenzene	0.150	U	0.150	0.150	r
75-01-4	Vinyl Chloride(sim)	0.020	U	0.020	0.020	r
71-43-2	Benzene(sim)	0.145		0.050	0.050	r
56-23-5	Carbon Tetrachloride(sim)	0.089		0.020	0.020	r
75-35-4	1,1-Dichloroethene(sim)	0.050	U	0.050	0.050	r
156-59-2	Cis-1,2-Dichloroethene(sim)	0.050	U	0.050	0.050	r
79-01-6	Trichloroethene(sim)	0.037	U	0.037	0.037	r
127-18-4	Tetrachloroethene(sim)	0.158		0.100	0.100	r
100-41-4	Ethylbenzene(sim)	0.150	U	0.150	0.150	r
179601-23-1	m,p-Xylene(sim)	0.161		0.150	0.150	r
106-46-7	1,4-Dichlorobenzene(sim)	0.150	U	0.150	0.150	r
120-82-1	1,2,4-Trichlorobenzene(sim)	0.250	U	0.250	0.250	r

FORM I AIR

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

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2020\CHEM24\12DEC\09\
Data File : 1209_08.D
Acq On : 9 Dec 2020 7:55 pm
Operator : Keith
Client ID : CH28475 QC
Lab ID : CH28475 QC
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Dec 10 08:50:50 2020
Quant Method : H:\AIR2020\CHEM24\METHODS\24AIR_1203.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Fri Dec 04 08:35:56 2020
Response via : Initial Calibration

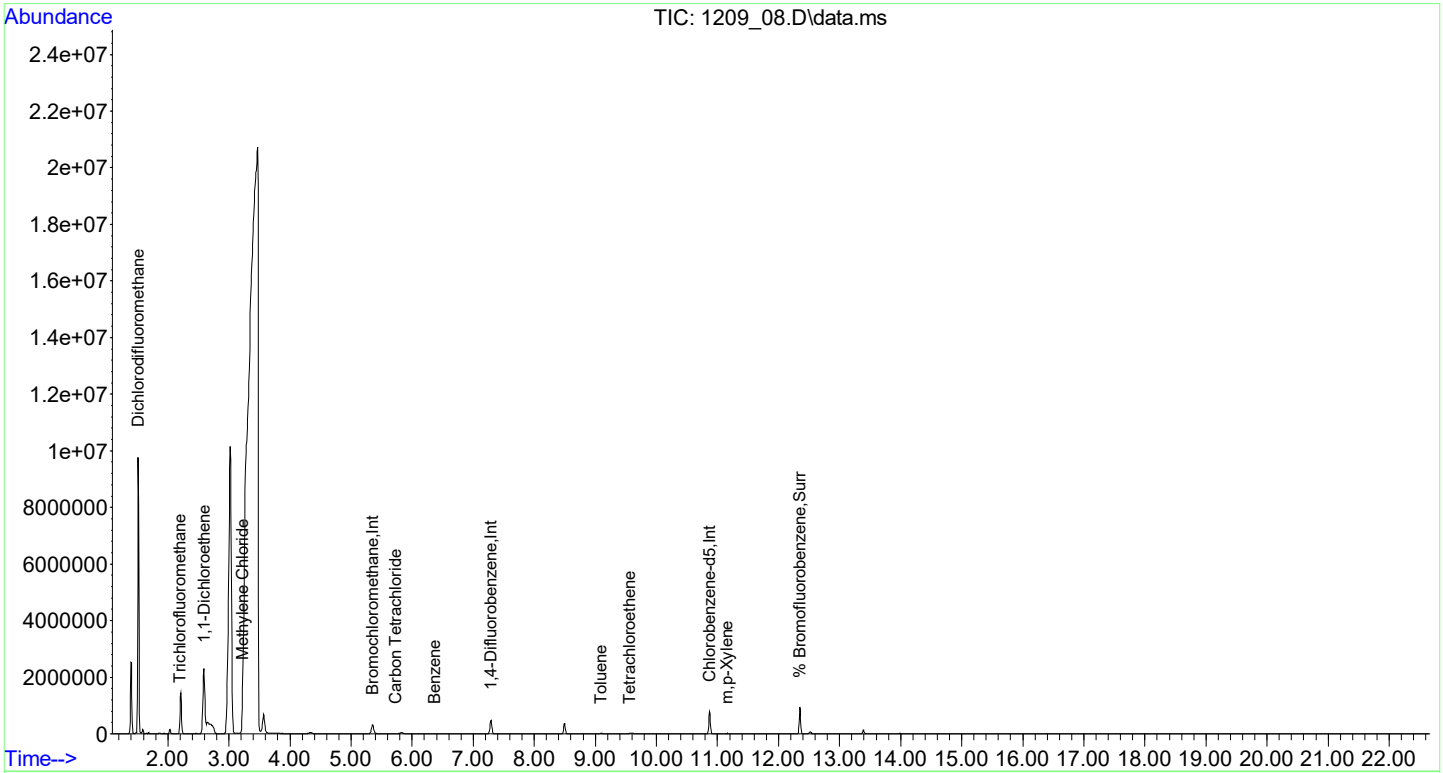
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	5.349	130	131224	10.000	ng		0.01
36) 1,4-Difluorobenzene	7.291	114	399553	10.000	ng		0.02
53) Chlorobenzene-d5	10.870	82	185319	10.000	ng		0.00
80) Bromochloromethane(sim)	5.352	130	136460	10.000	ng	#	0.02
95) 1,4-Difluorobenzene(sim)	7.291	114	399553	10.000	ng		0.02
105) Chlorobenzene-d5(sim)	10.870	82	185319	10.000	ng		0.00
System Monitoring Compounds							
62) % Bromofluorobenzene	12.348	95	272608	9.647	ppbv		0.01
Spiked Amount 10.000	Range 70 - 130		Recovery = 96.50%				
Target Compounds							Qvalue
3) Dichlorodifluoromethane	1.513	85	11806	0.394	ppbv		96
13) Trichlorofluoromethane	2.198	101	12866	0.295	ppbv		94
16) 1,1-Dichloroethene	2.595	61	1569	0.065	ppbv#		36
17) Methylene Chloride	3.224	49	6845	0.319	ppbv#		76
33) Benzene	6.367	78	4196	0.168	ppbv		98
34) Carbon Tetrachloride	5.724	117	3302	0.085	ppbv		91
48) Toluene	9.090	91	12004	0.329	ppbv		97
52) Tetrachloroethene	9.566	166	3190	0.147	ppbv		95
57) m,p-Xylene	11.159	91	6331	0.160	ppbv		94
84] Trichlorofluoromethane...	2.201	101	13405	0.281	ppbv		99
86] Benzene(sim)	6.363	78	4365	0.145	ppbv		99
87] Carbon Tetrachloride(sim)	5.724	117	3302	0.089	ppbv#		79
104] Tetrachloroethene(sim)	9.562	166	3575	0.158	ppbv		97
109] m,p-Xylene(sim)	11.159	91	6331	0.161	ppbv		95

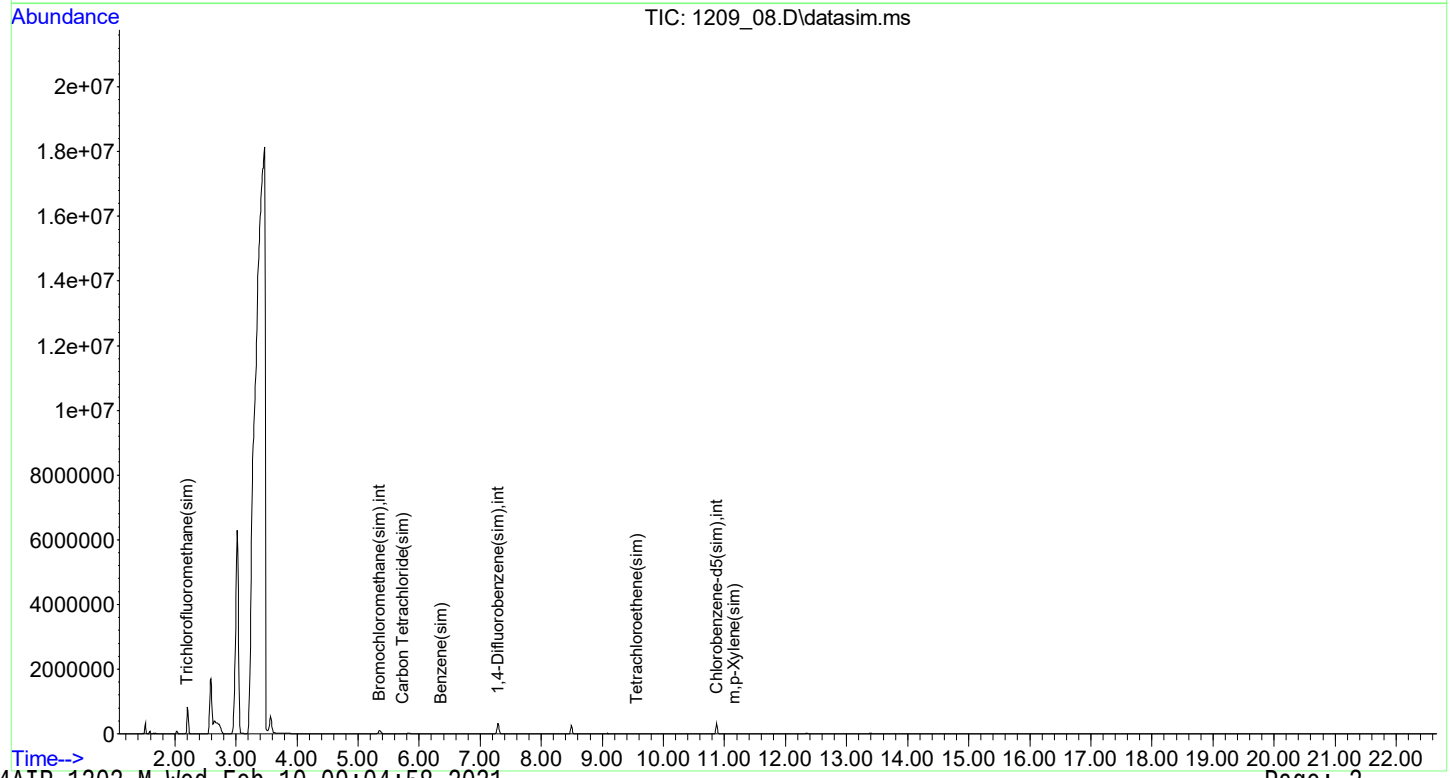
(#)out of range (m)manual integration reviewed by analyst (+)signals summed

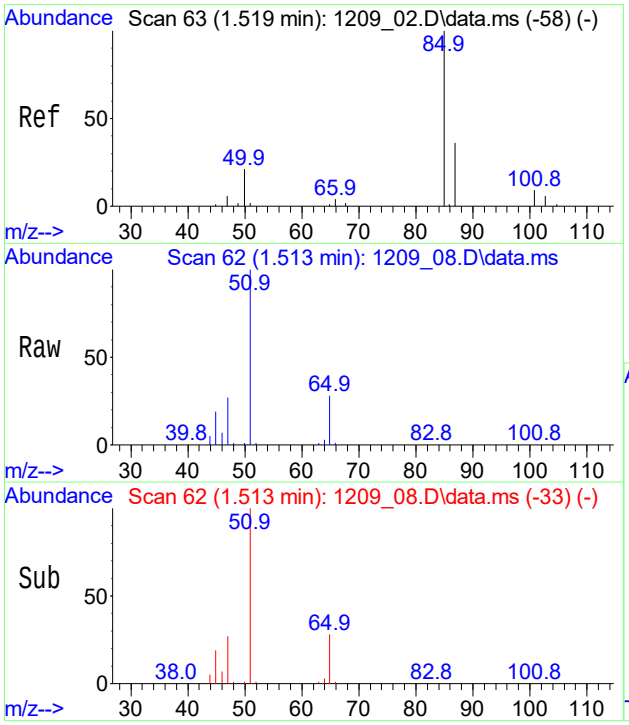
Quantitation Report (QT Reviewed)

Data Path : H:\AIR2020\CHEM24\12DEC\09\
Data File : 1209_08.D
Acq On : 9 Dec 2020 7:55 pm
Operator : Keith
Client ID : CH28475 QC
Lab ID : CH28475 QC
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Dec 10 08:50:50 2020
Quant Method : H:\AIR2020\CHEM24\METHODS\24AIR_1203.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Fri Dec 04 08:35:56 2020
Response via : Initial Calibration



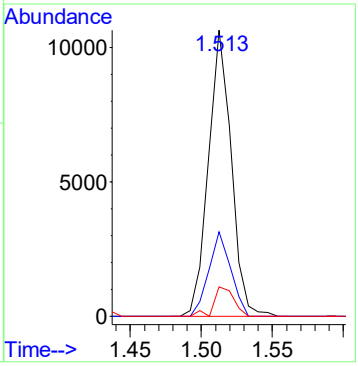


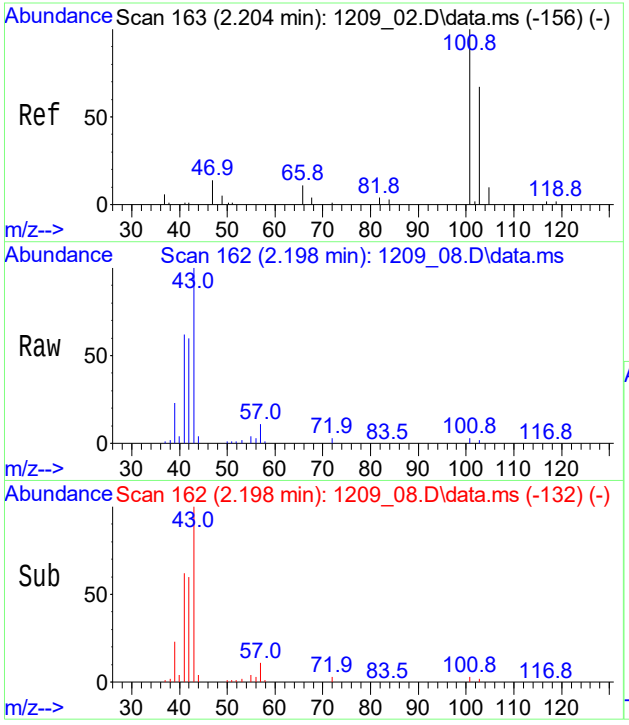


#3
Dichlorodifluoromethane
Conc: 8$ 0.394 ppbv
RT: 1.513 min Scan# 62
Delta R.T. 0.000 min
Lab File: 1209_08.D
Acq: 9 Dec 2020 7:55 pm

Tgt Ion: 85 Resp: 11806

Ion	Ratio	Lower	Upper
85	100		
87	28.3	24.5	36.7
101	8.8	8.6	12.8

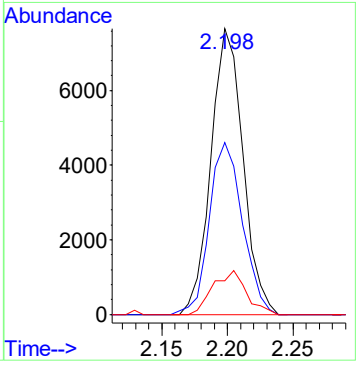


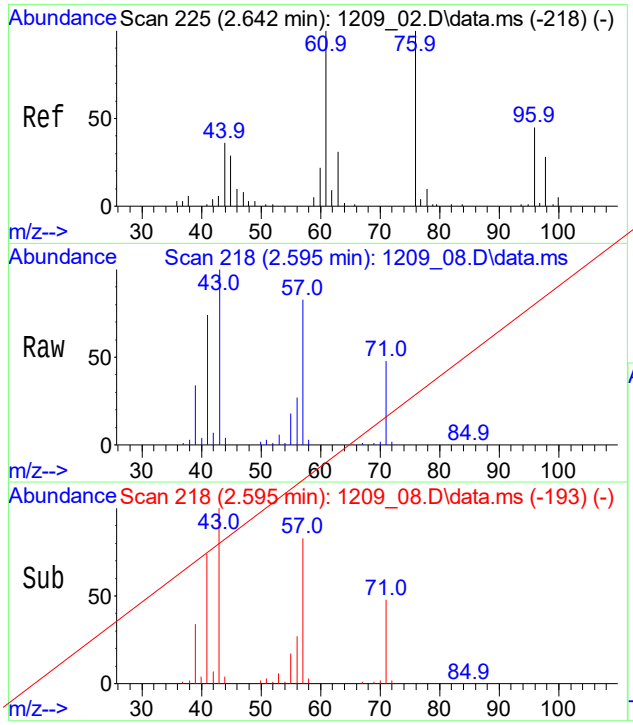


#13
Trichlorofluoromethane
Conc: 8$ 0.295 ppbv
RT: 2.198 min Scan# 162
Delta R.T. 0.007 min
Lab File: 1209_08.D
Acq: 9 Dec 2020 7:55 pm

Tgt Ion:101 Resp: 12866

Ion	Ratio	Lower	Upper
101	100		
103	62.3	54.5	81.7
66	16.0	12.7	19.1

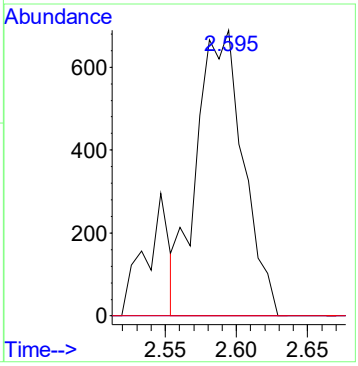


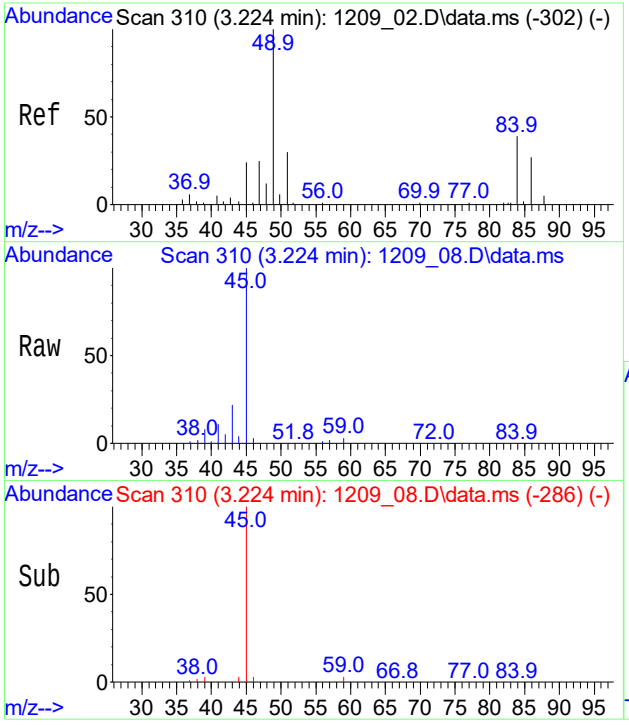


#16
1,1-Dichloroethene
Conc: 8$ Below Cal
RT: 2.595 min Scan# 218
Delta R.T. -0.027 min
Lab File: 1209_08.D
Acq: 9 Dec 2020 7:55 pm

Tgt Ion: 61 Resp: 1569

Ion	Ratio	Lower	Upper
61	100		
96	0.0	37.8	56.6#
98	0.0	22.4	33.6#

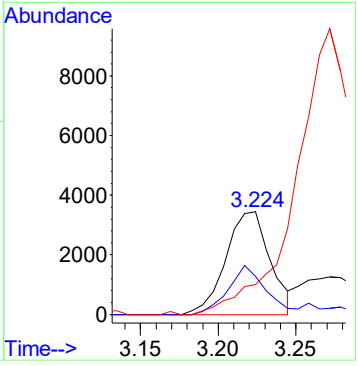


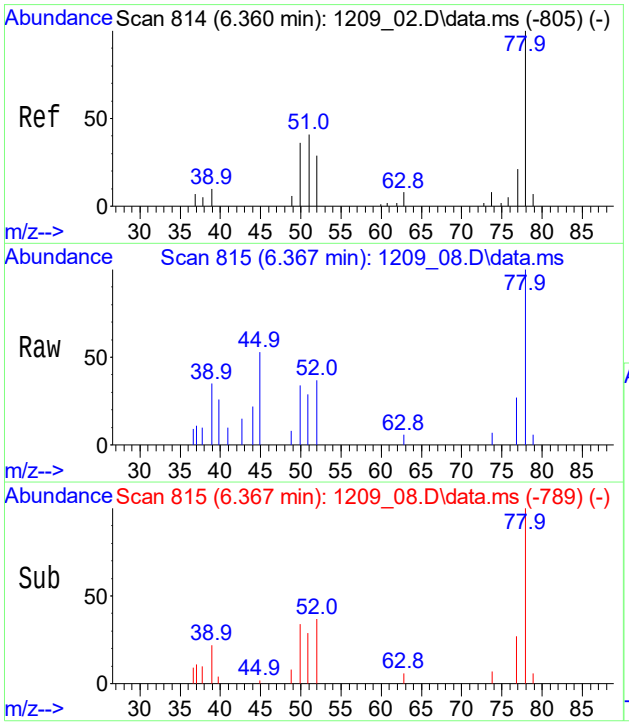


#17
Methylene Chloride
Conc: 8$ 0.319 ppbv
RT: 3.224 min Scan# 310
Delta R.T. 0.014 min
Lab File: 1209_08.D
Acq: 9 Dec 2020 7:55 pm

Tgt Ion: 49 Resp: 6845

Ion	Ratio	Lower	Upper
49	100		
84	40.7	34.6	51.8
86	0.0	23.4	35.2#

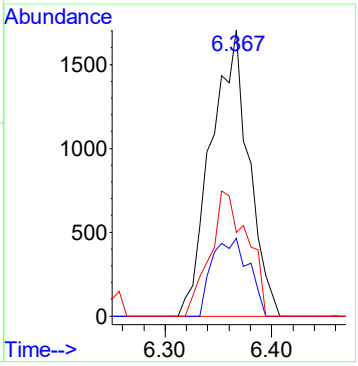


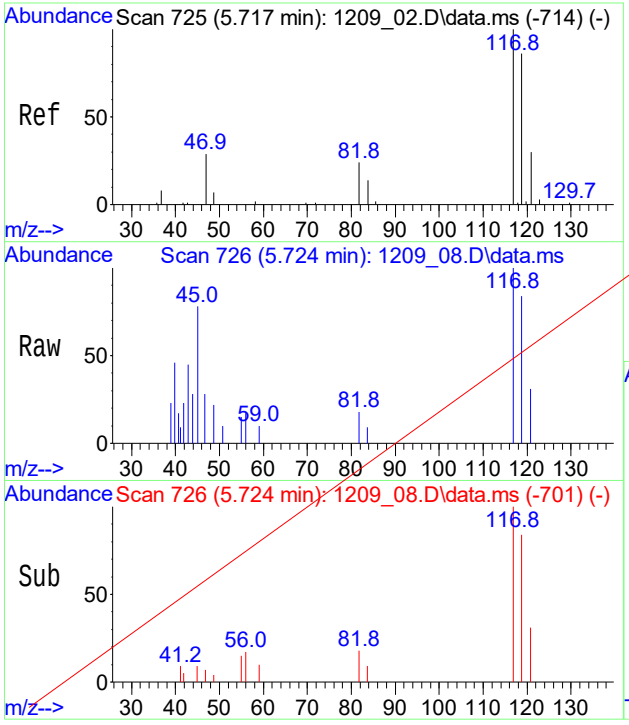


#33
Benzene
Conc: 8$ 0.168 ppbv
RT: 6.367 min Scan# 815
Delta R.T. 0.028 min
Lab File: 1209_08.D
Acq: 9 Dec 2020 7:55 pm

Tgt Ion: 78 Resp: 4196

Ion	Ratio	Lower	Upper
78	100		
77	26.2	22.7	34.1
51	43.0	34.6	51.8

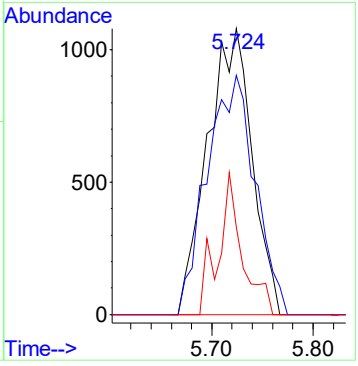


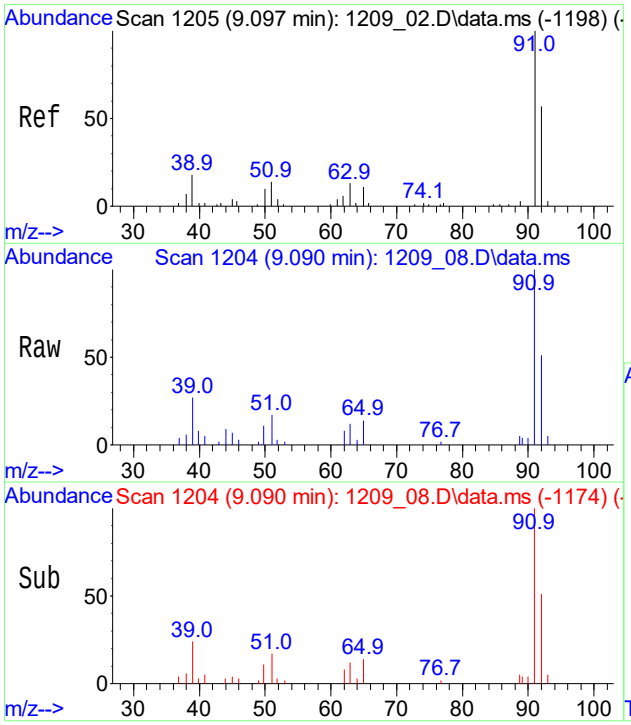


#34
Carbon Tetrachloride
Conc: 8$ Below Cal
RT: 5.724 min Scan# 726
Delta R.T. 0.029 min
Lab File: 1209_08.D
Acq: 9 Dec 2020 7:55 pm

Tgt Ion:117 Resp: 3302

Ion	Ratio	Lower	Upper
117	100		
119	89.9	78.5	118.5
121	26.7	11.7	51.7

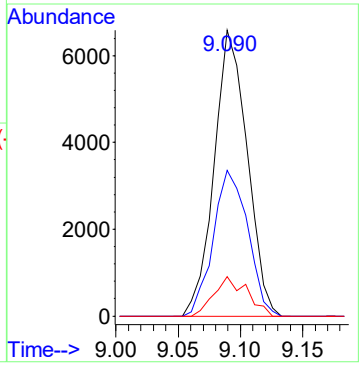


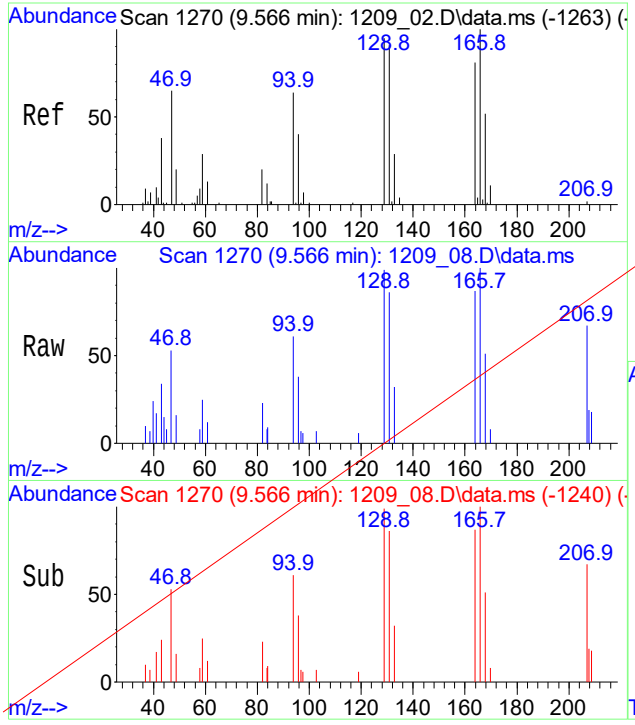


#48
Toluene
Conc: 8$ 0.329 ppbv
RT: 9.090 min Scan# 1204
Delta R.T. 0.015 min
Lab File: 1209_08.D
Acq: 9 Dec 2020 7:55 pm

Tgt Ion: 91 Resp: 12004

Ion	Ratio	Lower	Upper
91	100		
92	53.4	44.5	66.7
65	13.8	12.6	19.0

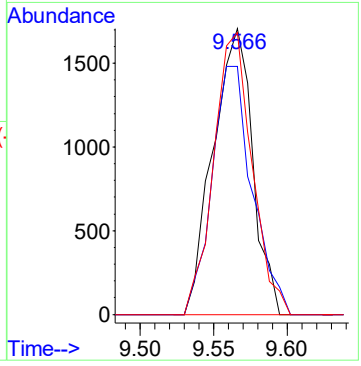


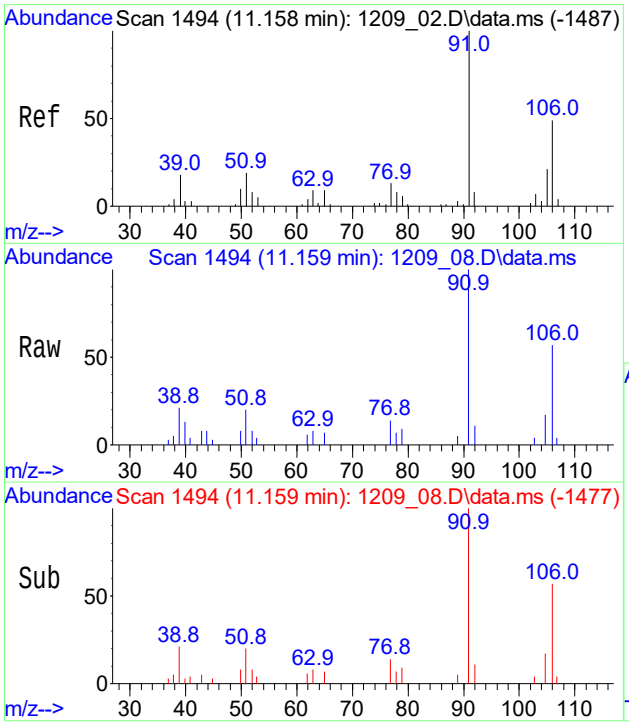


#52
Tetrachloroethene
Conc: 8$ Below Cal
RT: 9.566 min Scan# 1270
Delta R.T. 0.015 min
Lab File: 1209_08.D
Acq: 9 Dec 2020 7:55 pm

Tgt Ion:166 Resp: 3190

Ion	Ratio	Lower	Upper
166	100		
164	88.7	75.6	113.4
129	96.0	80.0	120.0

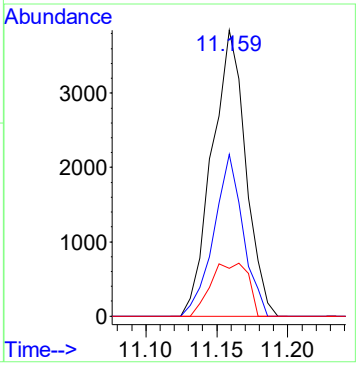


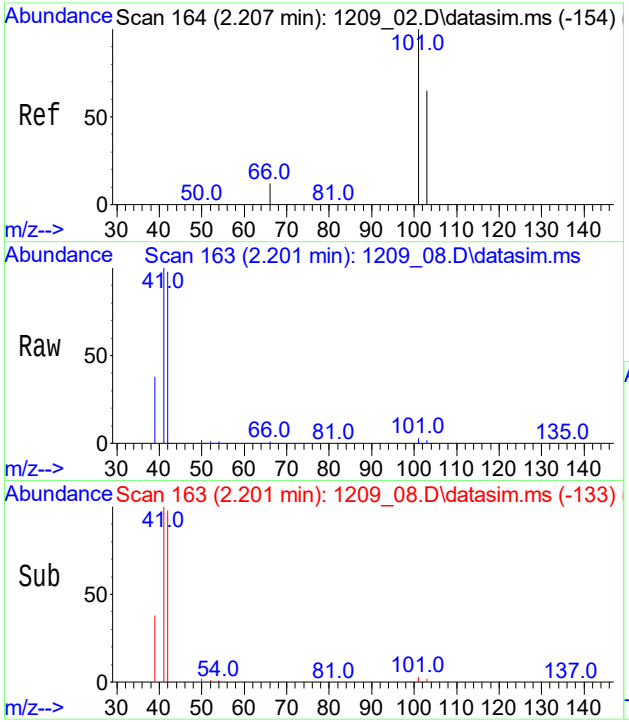


#57
m,p-Xylene
Conc: 8$ 0.160 ppbv
RT: 11.159 min Scan# 1494
Delta R.T. 0.014 min
Lab File: 1209_08.D
Acq: 9 Dec 2020 7:55 pm

Tgt Ion: 91 Resp: 6331

Ion	Ratio	Lower	Upper
91	100		
106	49.4	42.3	63.5
105	20.8	19.5	29.3

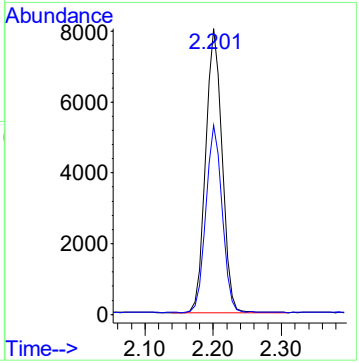


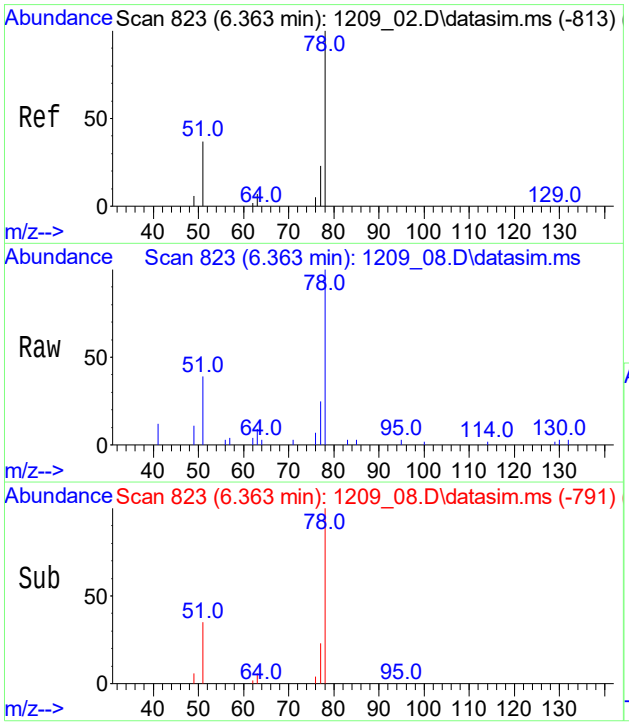


#84
Trichlorofluoromethane(sim)
Conc: 8$ 0.281 ppbv
RT: 2.201 min Scan# 163
Delta R.T. 0.007 min
Lab File: 1209_08.D
Acq: 9 Dec 2020 7:55 pm

Tgt Ion:101 Resp: 13405

Ion	Ratio	Lower	Upper
101	100		
103	65.1	52.5	78.7

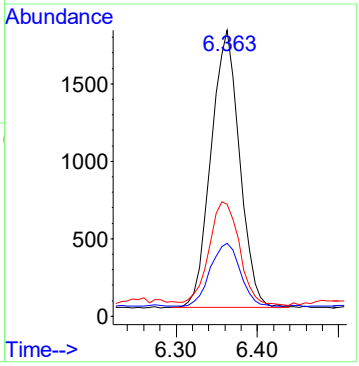


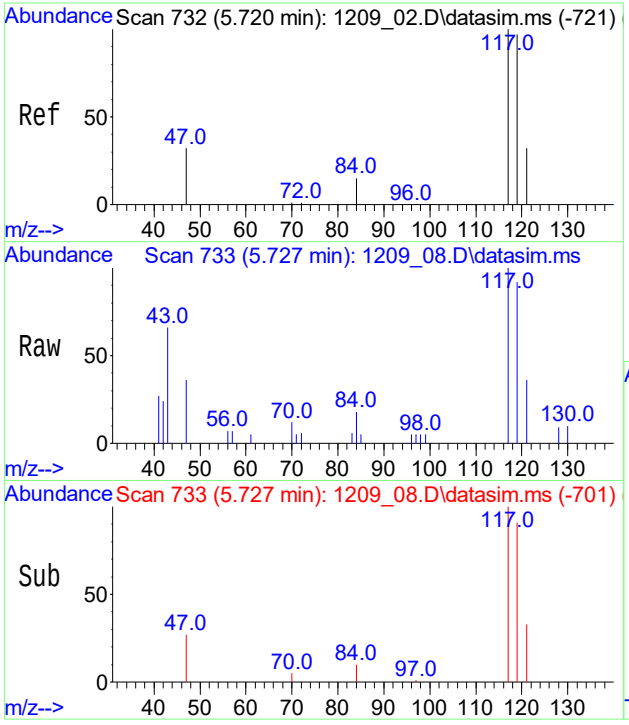


#86
Benzene(sim)
Conc: 8$ 0.145 ppbv
RT: 6.363 min Scan# 823
Delta R.T. 0.021 min
Lab File: 1209_08.D
Acq: 9 Dec 2020 7:55 pm

Tgt Ion: 78 Resp: 4365

Ion	Ratio	Lower	Upper
78	100		
77	24.0	20.0	30.0
51	39.8	31.8	47.6

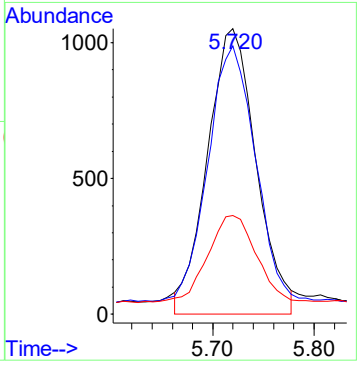


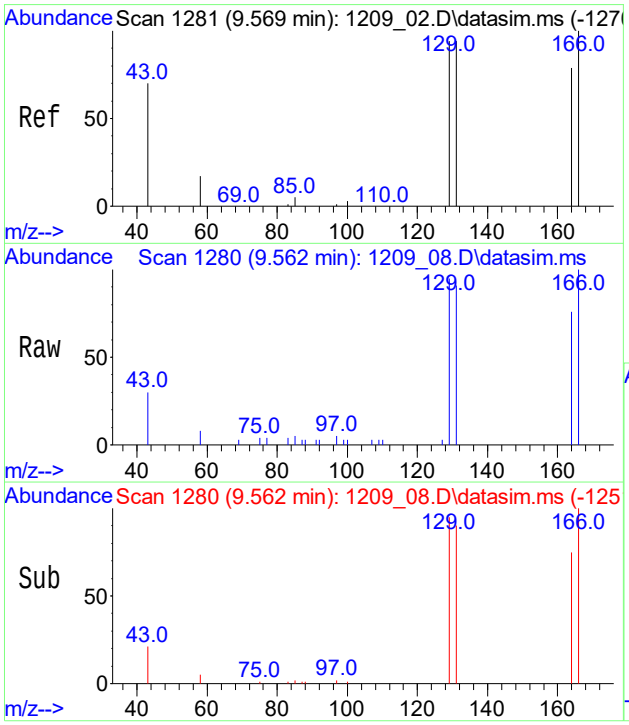


#87
Carbon Tetrachloride(sim)
Conc: 8$ 0.089 ppbv
RT: 5.724 min Scan# 733
Delta R.T. 0.029 min
Lab File: 1209_08.D
Acq: 9 Dec 2020 7:55 pm

Tgt Ion:117 Resp: 3302

Ion	Ratio	Lower	Upper
117	100		
119	82.7	86.8	130.2#
121	26.7	24.0	36.0

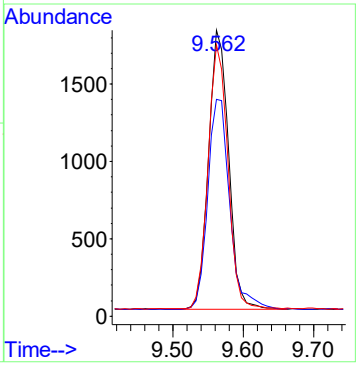


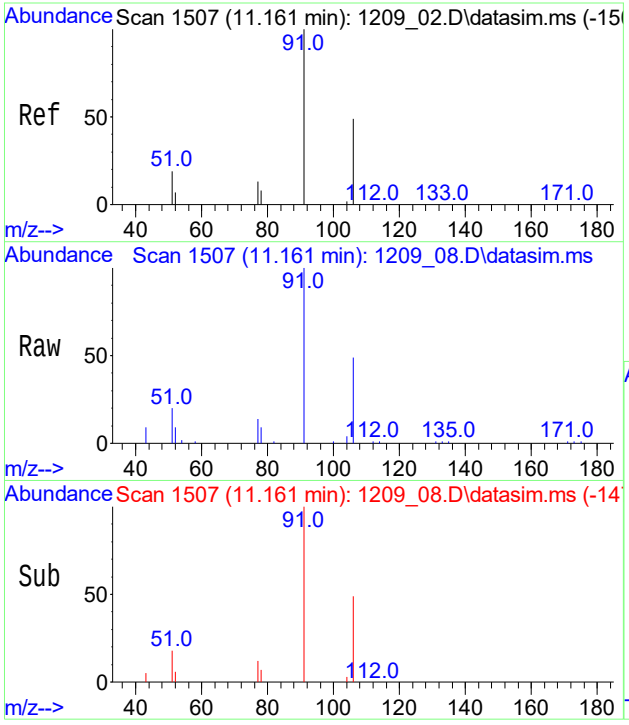


#104
Tetrachloroethene(sim)
Conc: 8$ 0.158 ppbv
RT: 9.562 min Scan# 1280
Delta R.T. 0.007 min
Lab File: 1209_08.D
Acq: 9 Dec 2020 7:55 pm

Tgt Ion:166 Resp: 3575

Ion	Ratio	Lower	Upper
166	100		
164	82.9	59.1	99.1
129	93.4	72.1	112.1

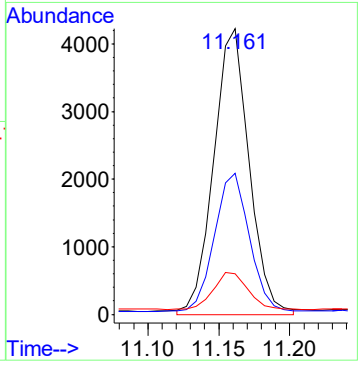




#109
m,p-Xylene(sim)
Conc: 8$ 0.161 ppbv
RT: 11.159 min Scan# 1507
Delta R.T. 0.014 min
Lab File: 1209_08.D
Acq: 9 Dec 2020 7:55 pm

Tgt Ion: 91 Resp: 6331

Ion	Ratio	Lower	Upper
91	100		
106	49.4	47.6	58.2
77	14.2	13.0	19.6



1

AIR ANALYSIS DATA SHEET

CLIENT ID: CH28475 BLANK

Client: WALDENE-IPARK Lab: Phoenix Env. Labs

SDG No.: GCH28478 Lab Sample ID: CH28475 BL

Canister: BL Lab File ID: 1209_07.D

Instrument: CHEM24 Column: RTX-VMS Date Received: 12/09/20

Purge Volume 200 (cc) Date Analyzed: 12/09/20

Matrix: AIR Dilution Factor: 1

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
75-71-8	Dichlorodifluoromethane	0.200	U	0.200	0.200	r
67-64-1	Acetone	1.00	U	1.00	1.00	r
75-69-4	Trichlorofluoromethane	0.150	U	0.150	0.150	r
75-09-2	Methylene Chloride	0.400	U	0.400	0.400	r
76-13-1	Trichlorotrifluoroethane	0.150	U	0.150	0.150	r
71-55-6	1,1,1-Trichloroethane	0.200	U	0.200	0.200	r
108-88-3	Toluene	0.200	U	0.200	0.200	r
108-90-7	Chlorobenzene	0.200	U	0.200	0.200	r
95-47-6	o-Xylene	0.150	U	0.150	0.150	r
541-73-1	1,3-Dichlorobenzene	0.150	U	0.150	0.150	r
95-50-1	1,2-Dichlorobenzene	0.150	U	0.150	0.150	r
75-01-4	Vinyl Chloride(sim)	0.020	U	0.020	0.020	r
71-43-2	Benzene(sim)	0.050	U	0.050	0.050	r
56-23-5	Carbon Tetrachloride(sim)	0.020	U	0.020	0.020	r
75-35-4	1,1-Dichloroethene(sim)	0.050	U	0.050	0.050	r
156-59-2	Cis-1,2-Dichloroethene(sim)	0.050	U	0.050	0.050	r
79-01-6	Trichloroethene(sim)	0.037	U	0.037	0.037	r
127-18-4	Tetrachloroethene(sim)	0.100	U	0.100	0.100	r
100-41-4	Ethylbenzene(sim)	0.150	U	0.150	0.150	r
179601-23-1	m,p-Xylene(sim)	0.150	U	0.150	0.150	r
106-46-7	1,4-Dichlorobenzene(sim)	0.150	U	0.150	0.150	r
120-82-1	1,2,4-Trichlorobenzene(sim)	0.250	U	0.250	0.250	r

FORM I AIR

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

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2020\CHEM24\12DEC\09\
Data File : 1209_07.D
Acq On : 9 Dec 2020 7:16 pm
Operator : Keith
Client ID : CH28475 BLANK
Lab ID : CH28475 BLANK
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Dec 10 08:46:52 2020
Quant Method : H:\AIR2020\CHEM24\METHODS\24AIR_1203.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Fri Dec 04 08:35:56 2020
Response via : Initial Calibration

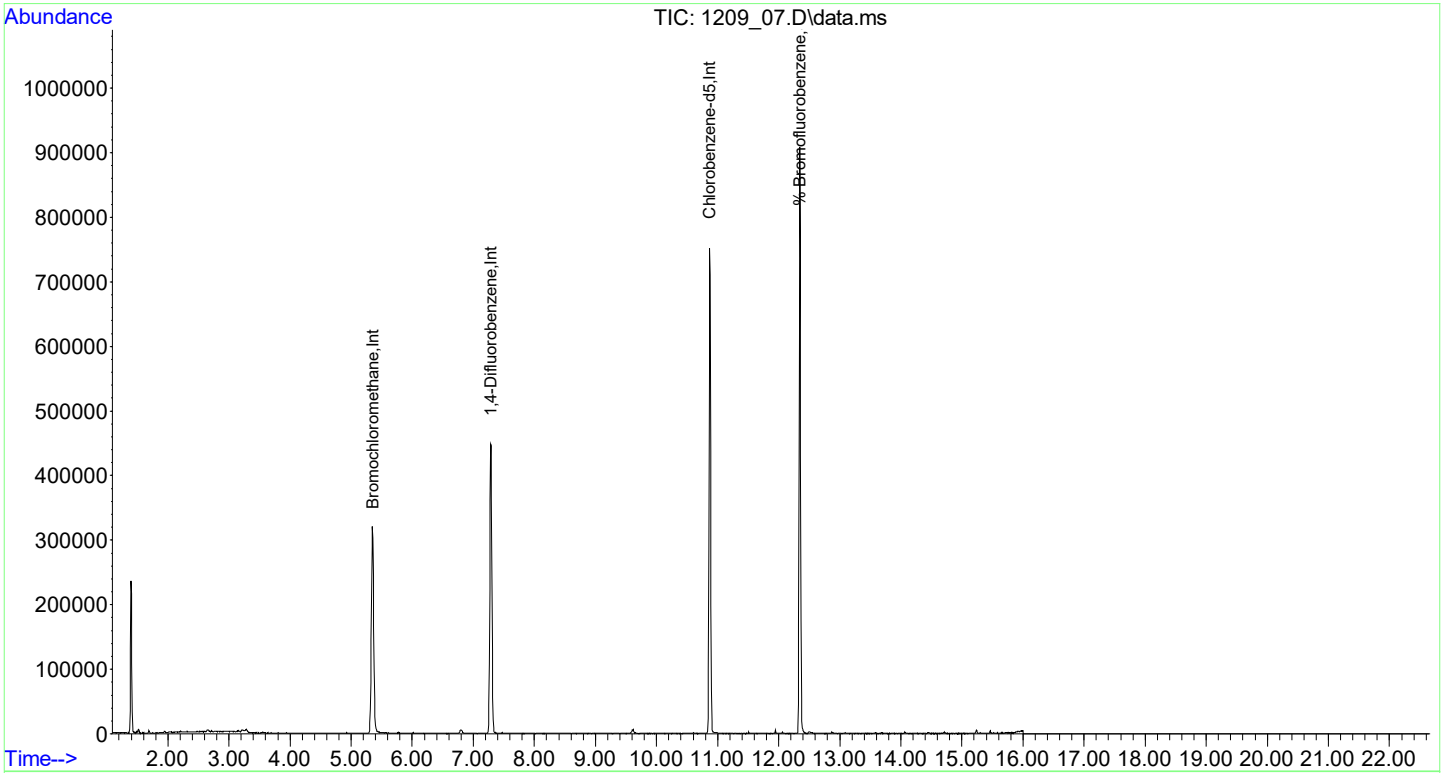
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	5.356	130	133095	10.000	ng		0.02
36) 1,4-Difluorobenzene	7.291	114	395073	10.000	ng		0.02
53) Chlorobenzene-d5	10.870	82	182743	10.000	ng		0.00
80) Bromochloromethane(sim)	5.352	130	139497	10.000	ng	#	0.02
95) 1,4-Difluorobenzene(sim)	7.291	114	395073	10.000	ng		0.02
105) Chlorobenzene-d5(sim)	10.870	82	182743	10.000	ng		0.00
System Monitoring Compounds							
62) % Bromofluorobenzene	12.348	95	263364	9.452	ppbv		0.01
Spiked Amount 10.000	Range 70 - 130		Recovery = 94.50%				
Target Compounds							Qvalue

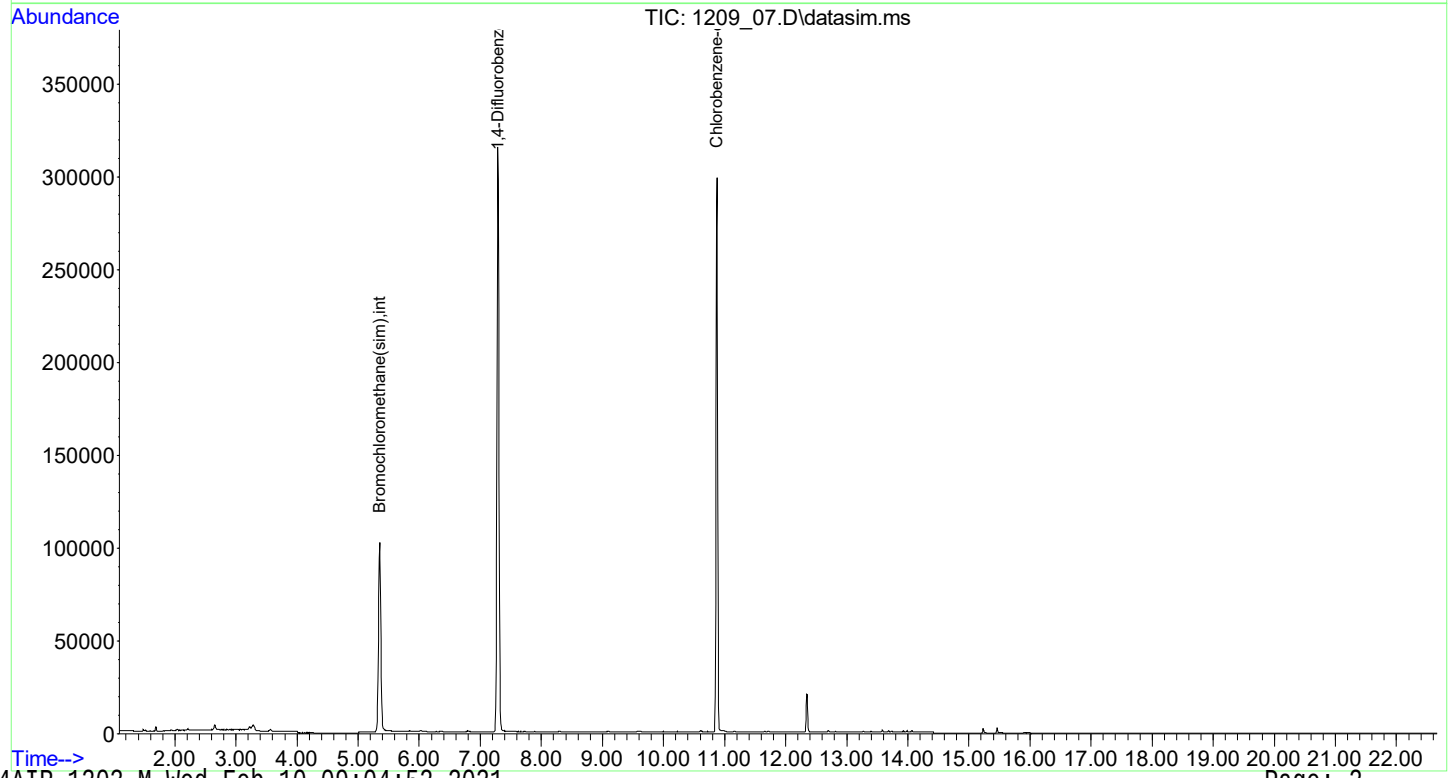
(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2020\CHEM24\12DEC\09\
Data File : 1209_07.D
Acq On : 9 Dec 2020 7:16 pm
Operator : Keith
Client ID : CH28475 BLANK
Lab ID : CH28475 BLANK
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Dec 10 08:46:52 2020
Quant Method : H:\AIR2020\CHEM24\METHODS\24AIR_1203.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Fri Dec 04 08:35:56 2020
Response via : Initial Calibration





1

AIR ANALYSIS DATA SHEET

CLIENT ID: 28475 368cc dup

Client: WALDENE-IPARK Lab: Phoenix Env. Labs

SDG No.: GCH28478 Lab Sample ID: CH28475 DUP

Canister: 19806 Lab File ID: 1209_09.D

Instrument: CHEM24 Column: RTX-VMS Date Received: 12/09/20

Purge Volume 200 (cc) Date Analyzed: 12/09/20

Matrix: AIR Dilution Factor: 1

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
75-71-8	Dichlorodifluoromethane	0.403		0.200	0.200	r
67-64-1	Acetone	1.00	U	1.00	1.00	r
75-69-4	Trichlorofluoromethane	0.327		0.150	0.150	r
75-09-2	Methylene Chloride	0.409	S	0.400	0.400	r
76-13-1	Trichlorotrifluoroethane	0.150	U	0.150	0.150	r
71-55-6	1,1,1-Trichloroethane	0.200	U	0.200	0.200	r
108-88-3	Toluene	0.359		0.200	0.200	r
108-90-7	Chlorobenzene	0.200	U	0.200	0.200	r
95-47-6	o-Xylene	0.150	U	0.150	0.150	r
541-73-1	1,3-Dichlorobenzene	0.150	U	0.150	0.150	r
95-50-1	1,2-Dichlorobenzene	0.150	U	0.150	0.150	r
75-01-4	Vinyl Chloride(sim)	0.020	U	0.020	0.020	r
71-43-2	Benzene(sim)	0.158		0.050	0.050	r
56-23-5	Carbon Tetrachloride(sim)	0.069		0.020	0.020	r
75-35-4	1,1-Dichloroethene(sim)	0.050	U	0.050	0.050	r
156-59-2	Cis-1,2-Dichloroethene(sim)	0.050	U	0.050	0.050	r
79-01-6	Trichloroethene(sim)	0.037	U	0.037	0.037	r
127-18-4	Tetrachloroethene(sim)	0.164		0.100	0.100	r
100-41-4	Ethylbenzene(sim)	0.150	U	0.150	0.150	r
179601-23-1	m,p-Xylene(sim)	0.170		0.150	0.150	r
106-46-7	1,4-Dichlorobenzene(sim)	0.150	U	0.150	0.150	r
120-82-1	1,2,4-Trichlorobenzene(sim)	0.250	U	0.250	0.250	r

FORM I AIR

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

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2020\CHEM24\12DEC\09\
Data File : 1209_09.D
Acq On : 9 Dec 2020 8:36 pm
Operator : Keith
Client ID : 28475 368cc dup
Lab ID : CH28475 DUP
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Dec 10 08:49:18 2020
Quant Method : H:\AIR2020\CHEM24\METHODS\24AIR_1203.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Fri Dec 04 08:35:56 2020
Response via : Initial Calibration

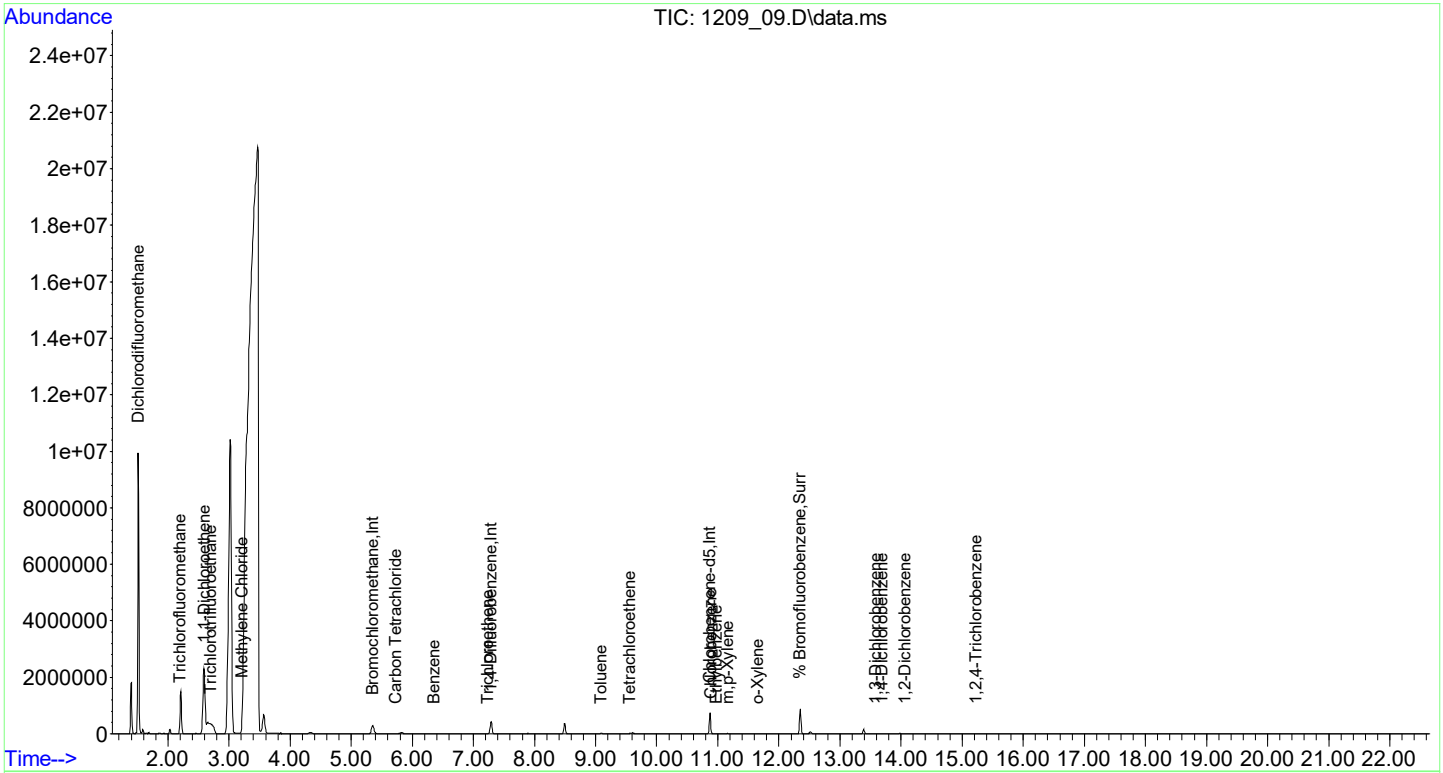
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	5.349	130	121643	10.000	ng		0.01
36) 1,4-Difluorobenzene	7.291	114	368368	10.000	ng		0.02
53) Chlorobenzene-d5	10.870	82	170445	10.000	ng		0.00
80) Bromochloromethane(sim)	5.352	130	127292	10.000	ng	#	0.02
95) 1,4-Difluorobenzene(sim)	7.291	114	368368	10.000	ng		0.02
105) Chlorobenzene-d5(sim)	10.870	82	170445	10.000	ng		0.00
System Monitoring Compounds							
62) % Bromofluorobenzene	12.348	95	253047	9.737	ppbv		0.01
Spiked Amount 10.000	Range 70 - 130		Recovery = 97.40%				
Target Compounds							Qvalue
3) Dichlorodifluoromethane	1.513	85	11201	0.403	ppbv		99
13) Trichlorofluoromethane	2.198	101	13226	0.327	ppbv		97
17) Methylene Chloride	3.217	49	8133	0.409	ppbv#		77
34) Carbon Tetrachloride	5.724	117	2816	0.078	ppbv		91
48) Toluene	9.089	91	12092	0.359	ppbv		97
52) Tetrachloroethene	9.559	166	3249	0.162	ppbv		88
84] Trichlorofluoromethane...	2.200	101	13893	0.312	ppbv		98
86] Benzene(sim)	6.363	78	4428	0.158	ppbv		99
87] Carbon Tetrachloride(sim)	5.724	117	2393	0.069	ppbv#		86
104] Tetrachloroethene(sim)	9.562	166	3430	0.164	ppbv		97
109] m,p-Xylene(sim)	11.158	91	6173	0.170	ppbv		95

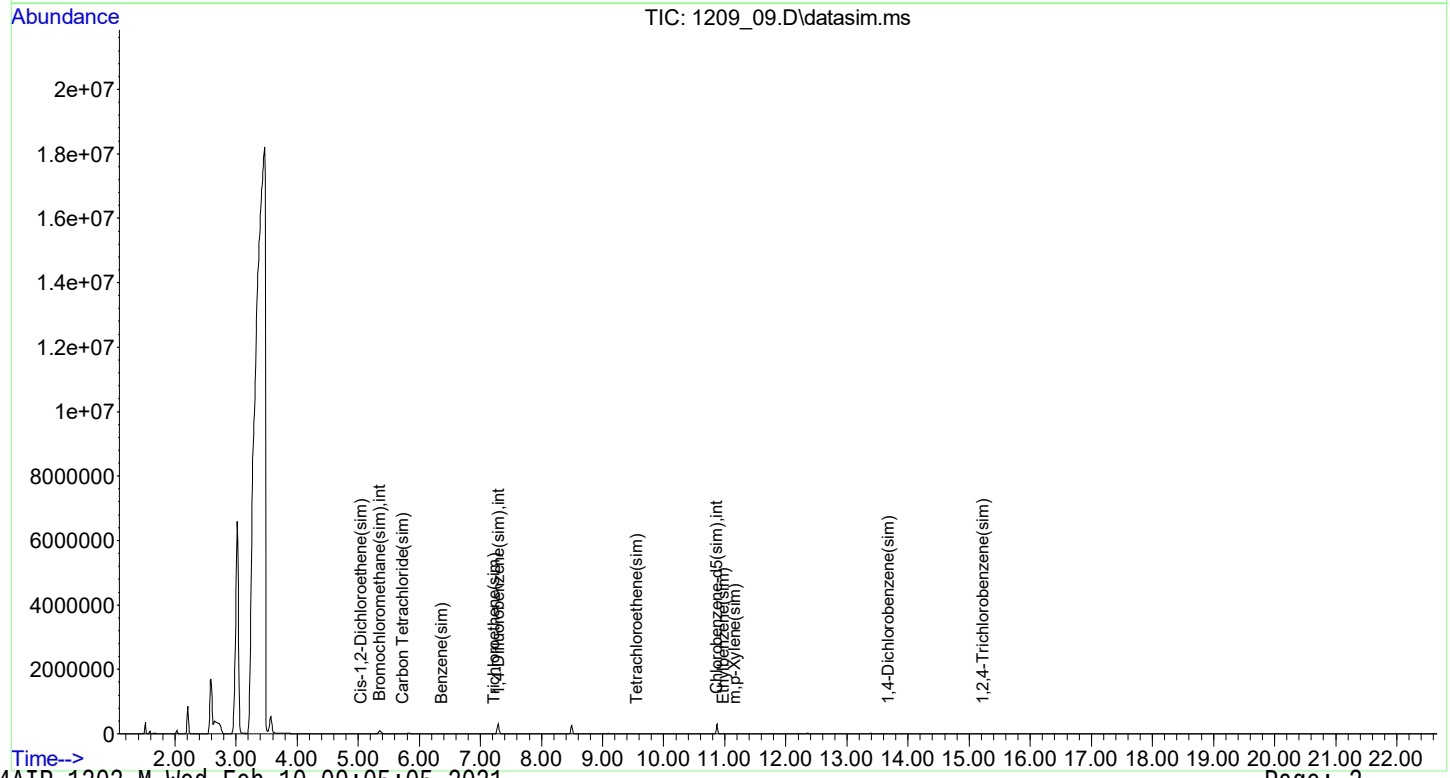
(#)out of range (m)manual integration reviewed by analyst (+)signals summed

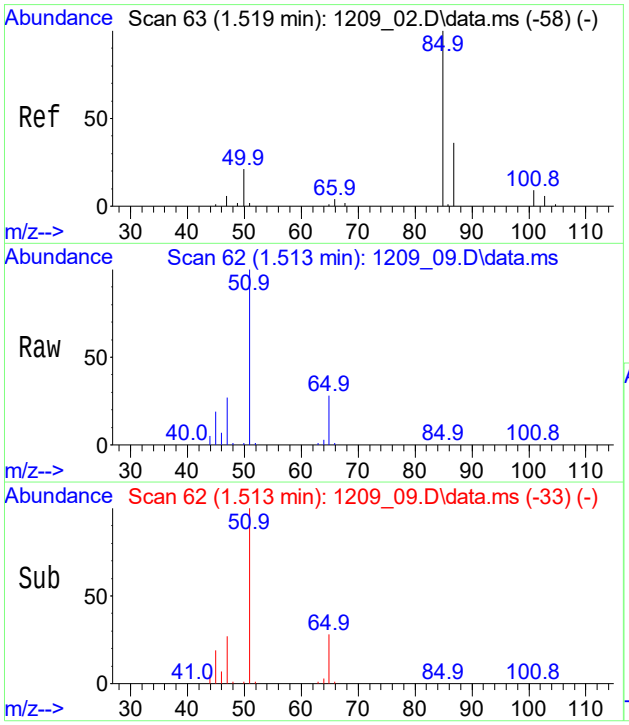
Quantitation Report (QT Reviewed)

Data Path : H:\AIR2020\CHEM24\12DEC\09\
Data File : 1209_09.D
Acq On : 9 Dec 2020 8:36 pm
Operator : Keith
Client ID : 28475 368cc dup
Lab ID : CH28475 DUP
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Dec 10 08:49:18 2020
Quant Method : H:\AIR2020\CHEM24\METHODS\24AIR_1203.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Fri Dec 04 08:35:56 2020
Response via : Initial Calibration



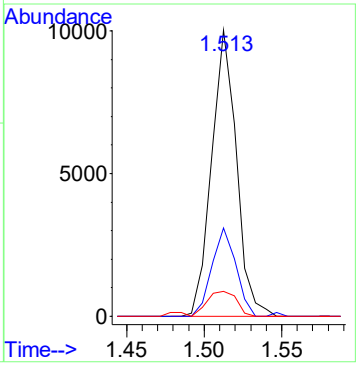


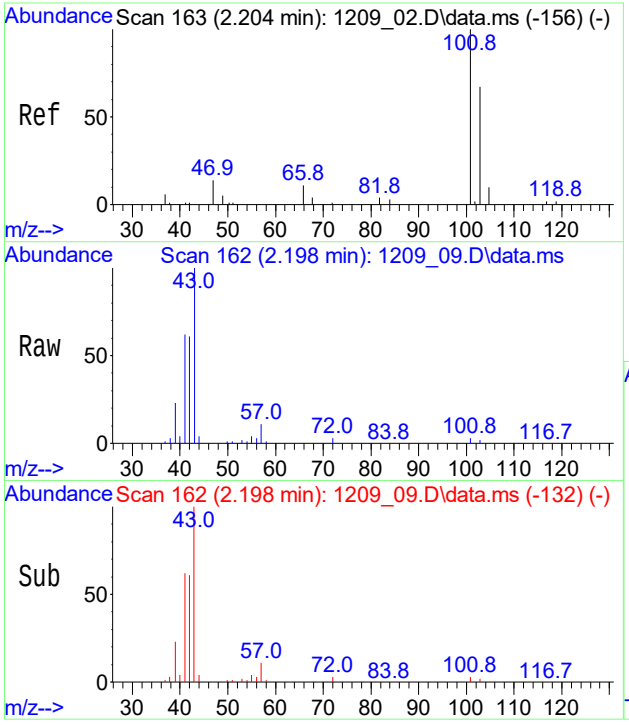


#3
Dichlorodifluoromethane
Conc: 8$ 0.403 ppbv
RT: 1.513 min Scan# 62
Delta R.T. 0.000 min
Lab File: 1209_09.D
Acq: 9 Dec 2020 8:36 pm

Tgt Ion: 85 Resp: 11201

Ion	Ratio	Lower	Upper
85	100		
87	29.8	24.5	36.7
101	11.2	8.6	12.8

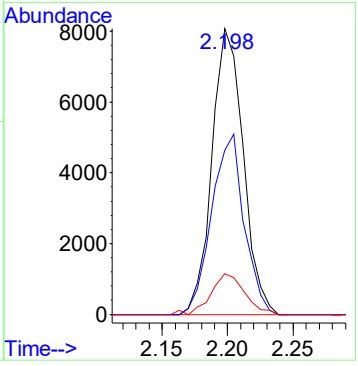


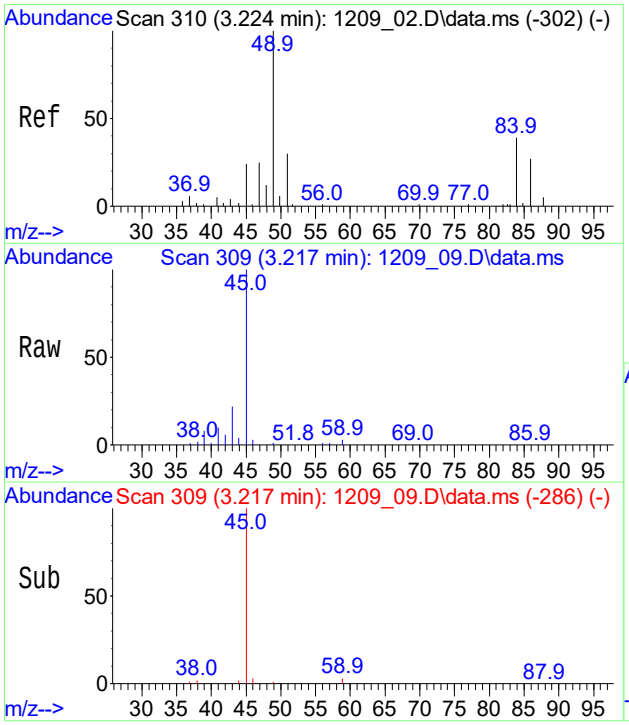


#13
Trichlorofluoromethane
Conc: 8$ 0.327 ppbv
RT: 2.198 min Scan# 162
Delta R.T. 0.007 min
Lab File: 1209_09.D
Acq: 9 Dec 2020 8:36 pm

Tgt Ion:101 Resp: 13226

Ion	Ratio	Lower	Upper
101	100		
103	65.4	54.5	81.7
66	15.5	12.7	19.1

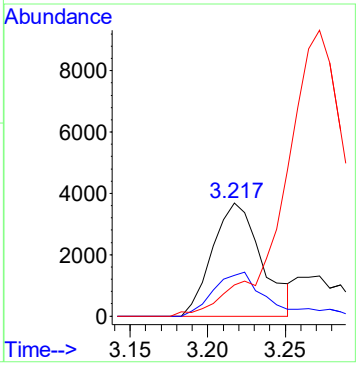


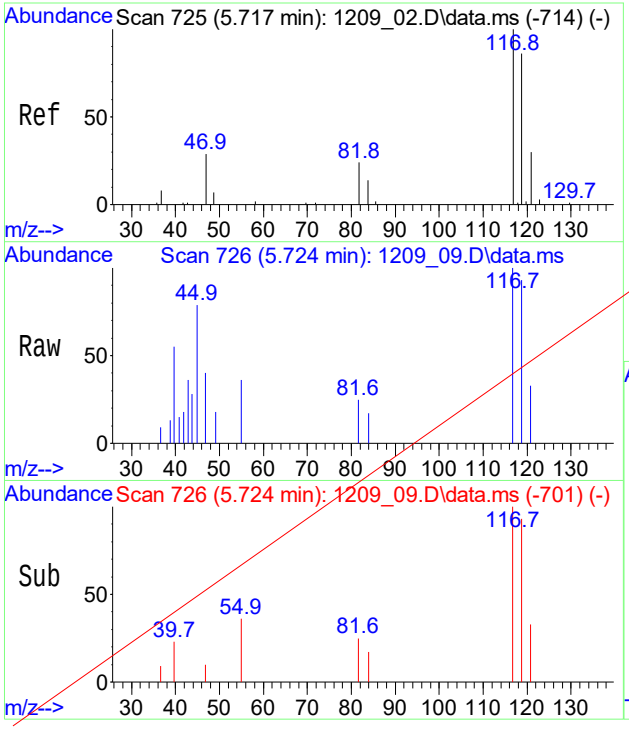


#17
Methylene Chloride
Conc: 8$ 0.409 ppbv
RT: 3.217 min Scan# 309
Delta R.T. 0.007 min
Lab File: 1209_09.D
Acq: 9 Dec 2020 8:36 pm

Tgt Ion: 49 Resp: 8133

Ion	Ratio	Lower	Upper
49	100		
84	42.3	34.6	51.8
86	0.0	23.4	35.2#

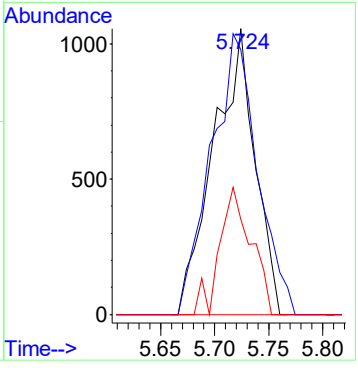


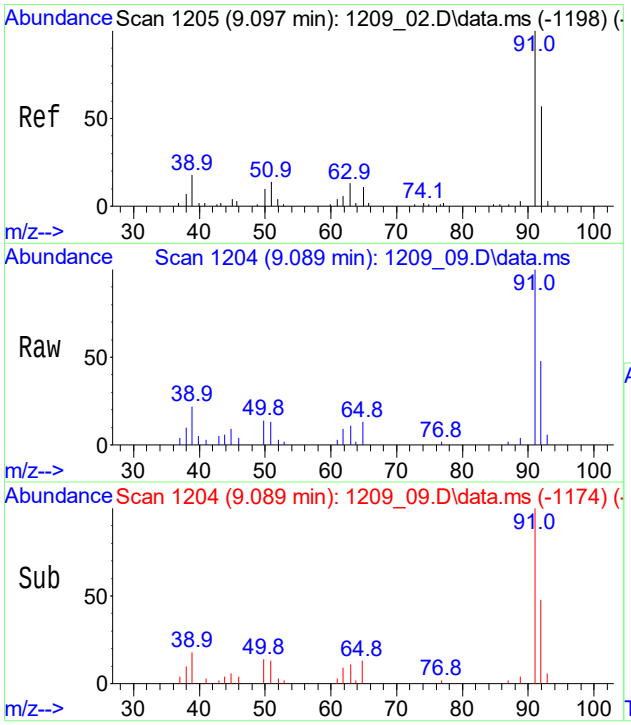


#34
Carbon Tetrachloride
Conc: 8$ Below Cal
RT: 5.724 min Scan# 726
Delta R.T. 0.029 min
Lab File: 1209_09.D
Acq: 9 Dec 2020 8:36 pm

Tgt Ion:117 Resp: 2816

Ion	Ratio	Lower	Upper
117	100		
119	109.2	78.5	118.5
121	33.7	11.7	51.7

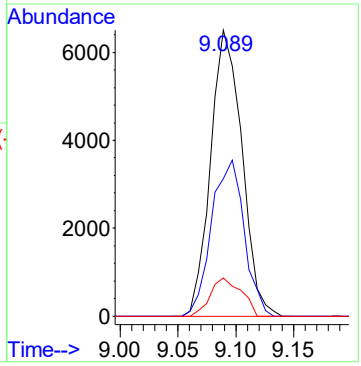


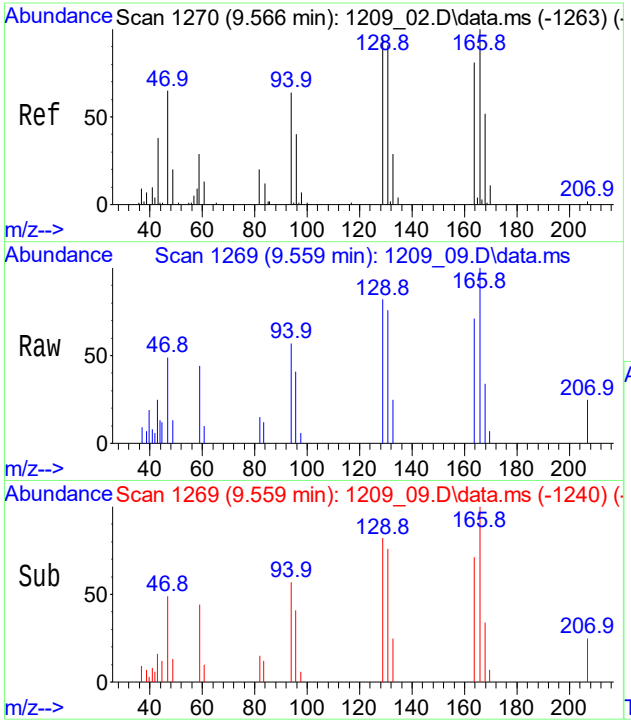


#48
Toluene
Conc: 8$ 0.359 ppbv
RT: 9.089 min Scan# 1204
Delta R.T. 0.014 min
Lab File: 1209_09.D
Acq: 9 Dec 2020 8:36 pm

Tgt Ion: 91 Resp: 12092

Ion	Ratio	Lower	Upper
91	100		
92	56.8	44.5	66.7
65	13.2	12.6	19.0

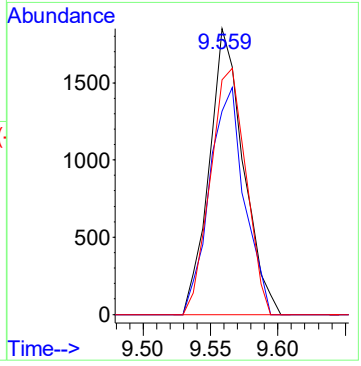


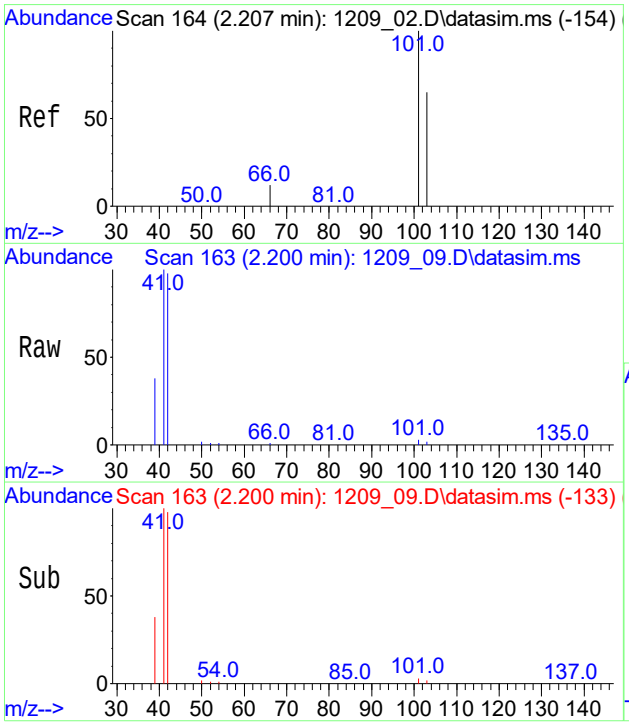


#52
Tetrachloroethene
Conc: 8$ 0.162 ppbv
RT: 9.559 min Scan# 1269
Delta R.T. 0.007 min
Lab File: 1209_09.D
Acq: 9 Dec 2020 8:36 pm

Tgt Ion:166 Resp: 3249

Ion	Ratio	Lower	Upper
166	100		
164	81.3	75.6	113.4
129	89.6	80.0	120.0

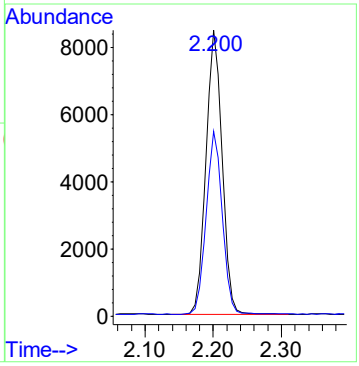


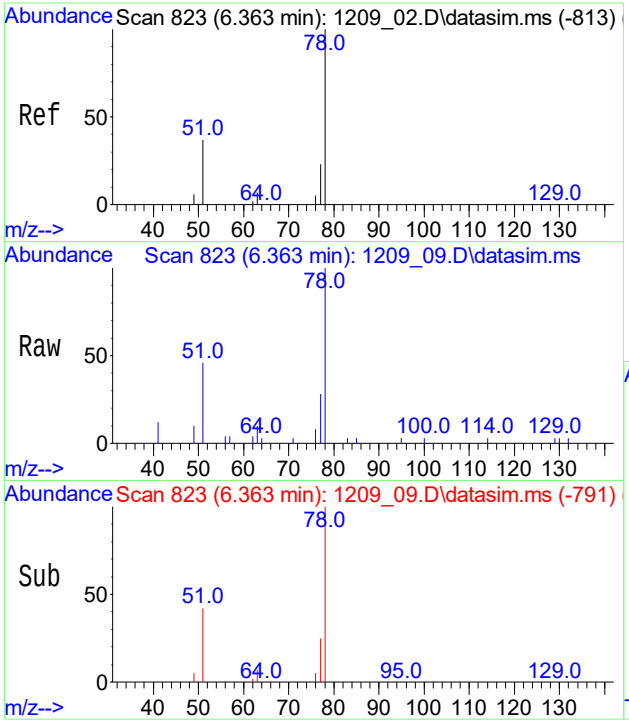


#84
Trichlorofluoromethane(sim)
Conc: 8$ 0.312 ppbv
RT: 2.200 min Scan# 163
Delta R.T. 0.007 min
Lab File: 1209_09.D
Acq: 9 Dec 2020 8:36 pm

Tgt Ion:101 Resp: 13893

Ion	Ratio	Lower	Upper
101	100		
103	64.0	52.5	78.7

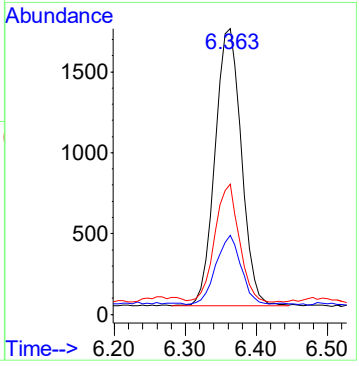


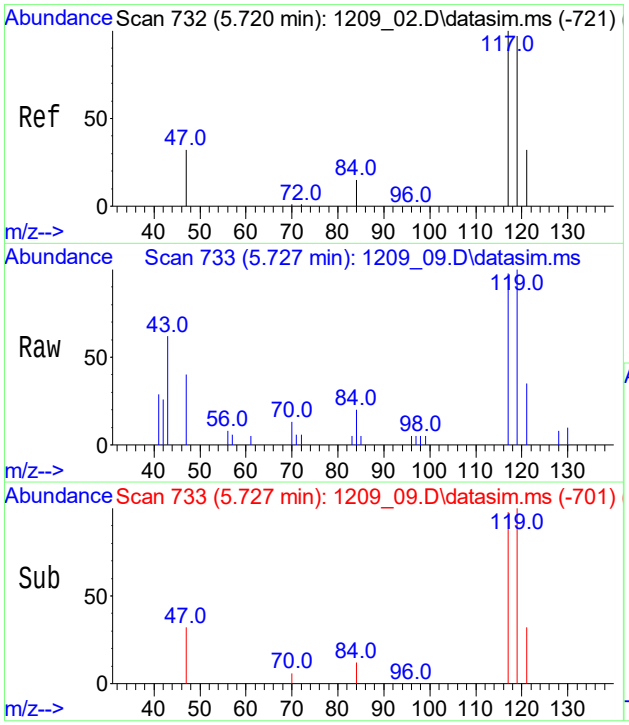


#86
Benzene(sim)
Conc: 8$ 0.158 ppbv
RT: 6.363 min Scan# 823
Delta R.T. 0.021 min
Lab File: 1209_09.D
Acq: 9 Dec 2020 8:36 pm

Tgt Ion: 78 Resp: 4428

Ion	Ratio	Lower	Upper
78	100		
77	24.1	20.0	30.0
51	39.8	31.8	47.6

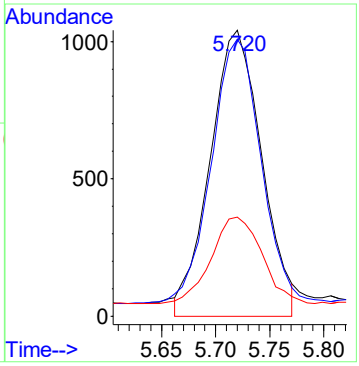


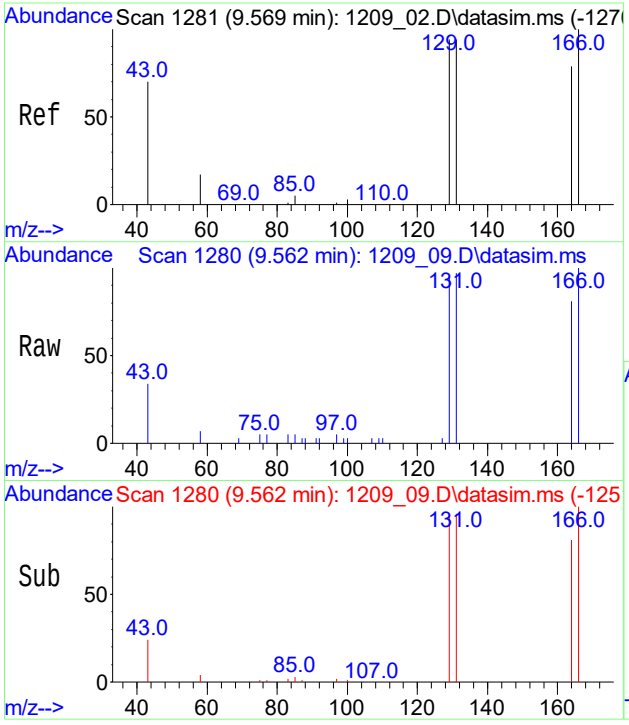


#87
Carbon Tetrachloride(sim)
Conc: 8$ 0.069 ppbv
RT: 5.724 min Scan# 733
Delta R.T. 0.029 min
Lab File: 1209_09.D
Acq: 9 Dec 2020 8:36 pm

Tgt Ion:117 Resp: 2393

Ion	Ratio	Lower	Upper
117	100		
119	123.7	86.8	130.2
121	37.3	24.0	36.0#

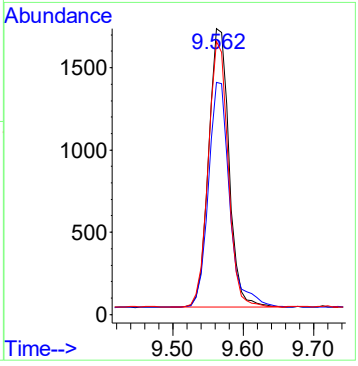


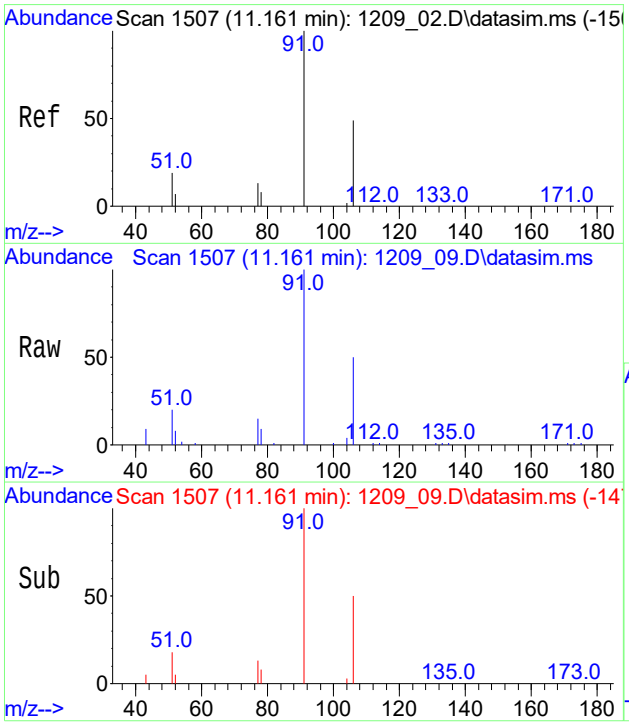


#104
Tetrachloroethene(sim)
Conc: 8$ 0.164 ppbv
RT: 9.562 min Scan# 1280
Delta R.T. 0.007 min
Lab File: 1209_09.D
Acq: 9 Dec 2020 8:36 pm

Tgt Ion:166 Resp: 3430

Ion	Ratio	Lower	Upper
166	100		
164	83.6	59.1	99.1
129	93.0	72.1	112.1

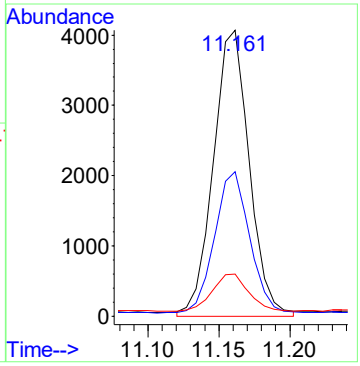




#109
m,p-Xylene(sim)
Conc: 8$ 0.170 ppbv
RT: 11.158 min Scan# 1507
Delta R.T. 0.014 min
Lab File: 1209_09.D
Acq: 9 Dec 2020 8:36 pm

Tgt Ion: 91 Resp: 6173

Ion	Ratio	Lower	Upper
91	100		
106	48.9	47.6	58.2
77	14.6	13.0	19.6



1

AIR ANALYSIS DATA SHEET

CLIENT ID: CANISTER BLK 28583

Client: WALDENE-IPARK Lab: Phoenix Env. Labs

SDG No.: GCH28478 Lab Sample ID: CANISTER BLK 28583

Canister: CANBL Lab File ID: 0814_15.D

Instrument: CHEM20 Column: Date Received:

Purge Volume 200 (cc) Date Analyzed: 08/18/20

Matrix: AIR Dilution Factor: 1

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
75-71-8	Dichlorodifluoromethane	0.200	U	0.200	0.200	r
67-64-1	Acetone	1.00	U	1.00	1.00	r
75-69-4	Trichlorofluoromethane	0.150	U	0.150	0.150	r
75-09-2	Methylene Chloride	0.400	U	0.400	0.400	r
76-13-1	Trichlorotrifluoroethane	0.150	U	0.150	0.150	r
71-55-6	1,1,1-Trichloroethane	0.200	U	0.200	0.200	r
71-43-2	Benzene	0.050	U	0.050	0.050	r
108-88-3	Toluene	0.200	U	0.200	0.200	r
108-90-7	Chlorobenzene	0.200	U	0.200	0.200	r
100-41-4	Ethylbenzene	0.150	U	0.150	0.150	r
95-47-6	o-Xylene	0.150	U	0.150	0.150	r
541-73-1	1,3-Dichlorobenzene	0.150	U	0.150	0.150	r
95-50-1	1,2-Dichlorobenzene	0.150	U	0.150	0.150	r
75-01-4	Vinyl Chloride(sim)	0.020	U	0.020	0.020	r
56-23-5	Carbon Tetrachloride(sim)	0.020	U	0.020	0.020	r
75-35-4	1,1-Dichloroethene(sim)	0.050	U	0.050	0.050	r
156-59-2	Cis-1,2-Dichloroethene(sim)	0.050	U	0.050	0.050	r
79-01-6	Trichloroethene(sim)	0.037	U	0.037	0.037	r
127-18-4	Tetrachloroethene(sim)	0.100	U	0.100	0.100	r
179601-23-1	m,p-Xylene(sim)	0.150	U	0.150	0.150	r
106-46-7	1,4-Dichlorobenzene(sim)	0.150	U	0.150	0.150	r
120-82-1	1,2,4-Trichlorobenzene(sim)	0.250	U	0.250	0.250	r

FORM I AIR

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

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2020\CHEM20\08AUG\12\
Data File : 0814_15.D
Acq On : 15 Aug 2020 4:31 am
Operator :
Client ID : CANISTER BLK 28583
Lab ID : CANISTER BLK 28583
ALS Vial : 85 Sample Multiplier: 1

Quant Time: Aug 17 09:19:30 2020
Quant Method : H:\AIR2020\CHEM20\Methods\20_AIR_0812.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Wed Aug 12 11:43:24 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	6.746	130	121263	10.000	ng	0.00
36) 1,4-Difluorobenzene	7.944	114	444714	10.000	ng	0.00
53) Chlorobenzene-d5	10.481	82	198603	10.000	ng	-0.01
80) Bromochloromethane(sim)	6.751	130	133633	10.000	ng	# 0.00
94) 1,4-Difluorobenzene(sim)	7.950	114	502482	10.000	ng	0.00
104) Chlorobenzene-d5(sim)	10.487	82	216770	10.000	ng	# 0.00
System Monitoring Compounds						
62) % Bromofluorobenzene	11.332	95	234491	9.649	ppbv	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 96.50%			
Target Compounds						Qvalue

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

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2020\CHEM20\08AUG\12\
Data File : 0814_15.D
Acq On : 15 Aug 2020 4:31 am
Operator :
Client ID : CANISTER BLK 28583
Lab ID : CANISTER BLK 28583
ALS Vial : 85 Sample Multiplier: 1

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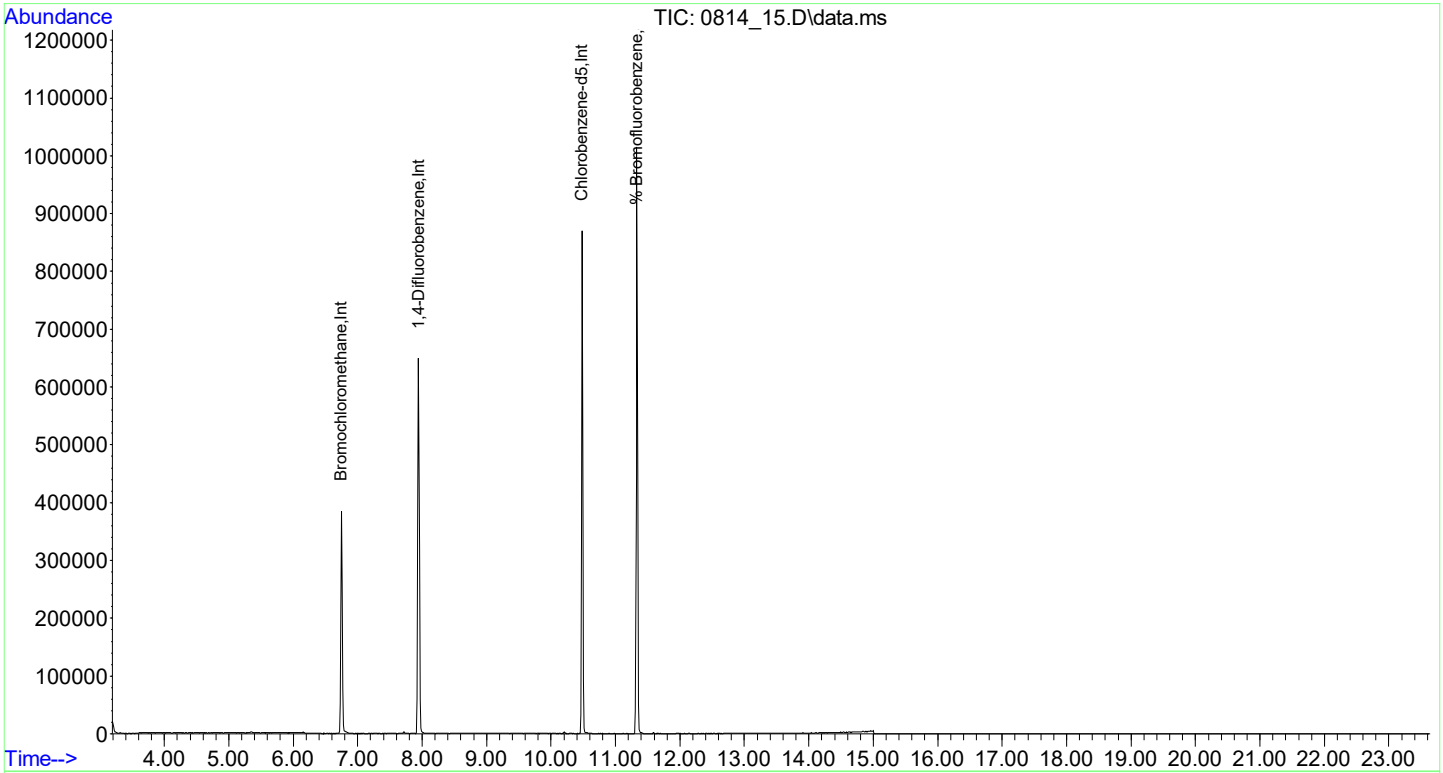
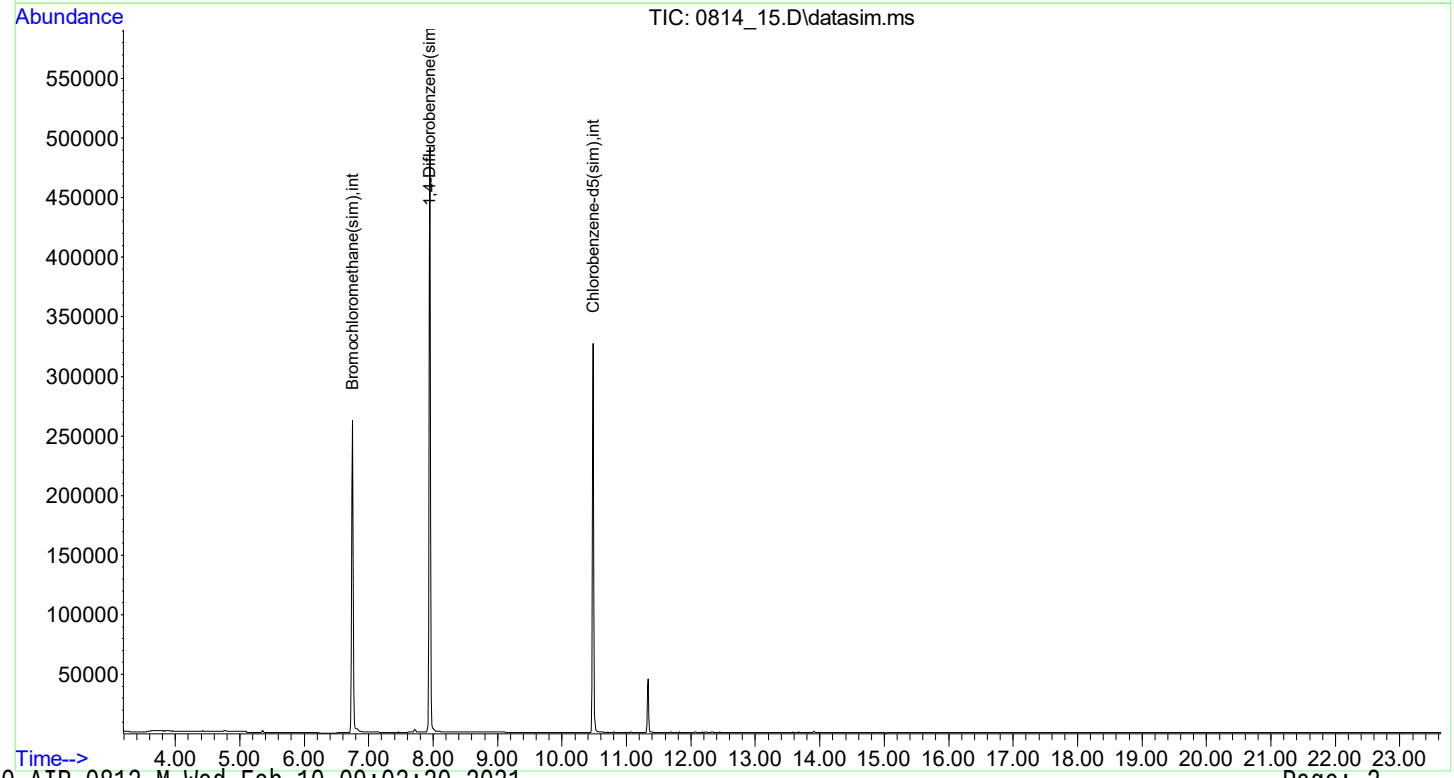
Quant Title : VOA Standards for 5 point calibration
QLast Update : Wed Aug 12 11:43:24 2020
Response via : Initial Calibration





Injection Log

Data Directory: H:\AIR2020\CHEM20\08AUG\12\

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2)	1	0812_01.D	xxxxxxxxxx		08/12/20 14:15
3)	6	0812_02.D	xxxxxxxxxx		08/12/20 14:52
4)	7	0812_03.D	xxxxxxxxxx		08/12/20 15:29
5)	8	0812_04.D	xxxxxxxxxx		08/12/20 16:07
6)	9	0812_05.D	xxxxxxxxxx		08/12/20 16:45
7)	9	0812_06.D	xxxxxxxxxx		08/12/20 17:20
8)	10	0812_07.D	xxxxxxxxxx		08/12/20 17:54
9)	11	0812_08.D	xxxxxxxxxx		08/12/20 19:28
10)	12	0812_09.D	xxxxxxxxxx		08/12/20 20:09
11)	13	0812_10.D	xxxxxxxxxx		08/12/20 20:50
12)	14	0812_11.D	xxxxxxxxxx		08/12/20 21:31
13)	15	0812_12.D	xxxxxxxxxx		08/12/20 22:13
14)	16	0812_13.D	xxxxxxxxxx		08/12/20 22:53
15)	17	0812_14.D	xxxxxxxxxx		08/12/20 23:34
16)	18	0812_15.D	xxxxxxxxxx		08/13/20 0:15
17)	19	0812_16.D	xxxxxxxxxx		08/13/20 0:56
18)	20	0812_17.D	xxxxxxxxxx		08/13/20 1:37
19)	21	0812_18.D	xxxxxxxxxx		08/13/20 2:18
20)	22	0812_19.D	xxxxxxxxxx		08/13/20 2:58
21)	23	0812_20.D	xxxxxxxxxx		08/13/20 3:39
22)	24	0812_21.D	xxxxxxxxxx		08/13/20 4:18
23)	25	0812_22.D	xxxxxxxxxx		08/13/20 4:58
24)	26	0812_23.D	xxxxxxxxxx		08/13/20 5:38
25)	27	0812_24.D	xxxxxxxxxx		08/13/20 6:15
26)	28	0812_25.D	xxxxxxxxxx		08/13/20 6:52
27)	29	0812_26.D	xxxxxxxxxx		08/13/20 8:37
28)	30	0812_27.D	xxxxxxxxxx		08/13/20 9:14
29)	31	0812_28.D	xxxxxxxxxx		08/13/20 9:51
30)	32	0812_29.D	xxxxxxxxxx		08/13/20 10:50
31)	33	0812_30.D	xxxxxxxxxx		08/13/20 11:30
32)	34	0812_31.D	xxxxxxxxxx		08/13/20 12:08
33)	35	0812_32.D	xxxxxxxxxx		08/13/20 12:47
34)	36	0812_33.D	xxxxxxxxxx		08/13/20 13:34
35)	37	0813_01.D	xxxxxxxxxx		08/13/20 14:11
36)	38	0813_02.D	xxxxxxxxxx		08/13/20 14:48
37)	39	0813_03.D	xxxxxxxxxx		08/13/20 15:26
38)	40	0813_04.D	xxxxxxxxxx		08/13/20 16:01
39)	41	0813_05.D	xxxxxxxxxx		08/13/20 16:35
40)	42	0813_06.D	xxxxxxxxxx		08/13/20 17:12
41)	43	0813_07.D	xxxxxxxxxx		08/13/20 17:49
42)	44	0813_08.D	xxxxxxxxxx		08/13/20 18:26
43)	45	0813_09.D	xxxxxxxxxx		08/13/20 19:02
44)	46	0813_10.D	xxxxxxxxxx		08/13/20 19:38
45)	47	0813_11.D	xxxxxxxxxx		08/13/20 20:15
46)	48	0813_12.D	xxxxxxxxxx		08/13/20 20:56
47)	49	0813_13.D	xxxxxxxxxx		08/13/20 21:37
48)	50	0813_14.D	xxxxxxxxxx		08/13/20 22:16
49)	51	0813_15.D	xxxxxxxxxx		08/13/20 22:56
50)	52	0813_16.D	xxxxxxxxxx		08/13/20 23:35
51)	53	0813_17.D	xxxxxxxxxx		08/14/20 0:12
52)	54	0813_18.D	xxxxxxxxxx		08/14/20 0:50
53)	55	0813_19.D	xxxxxxxxxx		08/14/20 1:27
54)	56	0813_20.D	xxxxxxxxxx		08/14/20 2:04
55)	57	0813_21.D	xxxxxxxxxx		08/14/20 2:42
56)	58	0813_22.D	xxxxxxxxxx		08/14/20 3:19
57)	59	0813_23.D	xxxxxxxxxx		08/14/20 3:56
58)	60	0813_24.D	xxxxxxxxxx		08/14/20 4:33
59)	61	0813_25.D	xxxxxxxxxx		08/14/20 5:10
60)	62	0813_26.D	xxxxxxxxxx		08/14/20 5:47
61)	63	0813_27.D	xxxxxxxxxx		08/14/20 6:27
62)	64	0813_28.D	xxxxxxxxxx		08/14/20 7:04
63)	65	0813_29.D	xxxxxxxxxx		08/14/20 7:42
64)	66	0813_30.D	xxxxxxxxxx		08/14/20 8:19
65)	67	0813_31.D	xxxxxxxxxx		08/14/20 9:05
66)	68	0813_32.D	xxxxxxxxxx		08/14/20 9:41
67)	69	0813_33.D	xxxxxxxxxx		08/14/20 10:18
68)	70	0813_34.D	xxxxxxxxxx		08/14/20 10:55

69)	71	0814_01.D	xxxxxxxxxx		08/14/20	11:29
70)	72	0814_02.D	xxxxxxxxxx		08/14/20	12:06
71)	73	0814_03.D	xxxxxxxxxx		08/14/20	12:43
72)	74	0814_04.D	xxxxxxxxxx		08/14/20	13:21
73)	75	0814_05.D	xxxxxxxxxx		08/14/20	13:55
74)	76	0814_06.D	xxxxxxxxxx		08/14/20	14:30
75)	77	0814_07.D	xxxxxxxxxx		08/14/20	23:20
76)	78	0814_08.D	xxxxxxxxxx		08/14/20	23:59
77)	79	0814_09.D	xxxxxxxxxx		08/15/20	0:38
78)	80	0814_10.D	xxxxxxxxxx		08/15/20	1:17
79)	81	0814_11.D	xxxxxxxxxx		08/15/20	1:56
80)	82	0814_12.D	xxxxxxxxxx		08/15/20	2:35
81)	83	0814_13.D	xxxxxxxxxx		08/15/20	3:13
82)	84	0814_14.D	xxxxxxxxxx		08/15/20	3:52
83)	85	0814_15.D	CANISTER BLK 28583	CANISTER BLK 28583	08/15/20	4:31
84)	86	0814_16.D	xxxxxxxxxx		08/15/20	5:10
85)	87	0814_17.D	xxxxxxxxxx		08/15/20	5:49
86)	88	0814_18.D	xxxxxxxxxx		08/15/20	6:28
87)	89	0814_19.D	xxxxxxxxxx		08/15/20	7:06
88)	90	0814_20.D	xxxxxxxxxx		08/15/20	7:45
89)	91	0814_21.D	xxxxxxxxxx		08/15/20	8:22
90)	92	0814_22.D	xxxxxxxxxx		08/15/20	8:59

Injection Log

Data Directory: H:\AIR2020\CHEM24\12DEC\03\

Line	Vl	FileName	SampleName	MiscInfo	Injection Time
1)	0	1203_22.D	xxxxxxxxxx		N/A
2)	3	1203_01.D	xxxxxxxxxx		12/03/20 14:45
3)	4	1203_02.D	BFB TUNE	0/0	12/03/20 15:16
4)	5	1203_03.D	ICAL 0.02	0.02	12/03/20 15:48
5)	6	1203_04.D	ICAL 0.035	0.035	12/03/20 16:19
6)	7	1203_05.D	ICAL 0.05	0.05	12/03/20 16:51
7)	8	1203_06.D	ICAL 0.1	0.10	12/03/20 17:23
8)	9	1203_07.D	ICAL 0.25	0.20	12/03/20 17:56
9)	10	1203_08.D	ICAL 0.5	0.5	12/03/20 18:32
10)	11	1203_09.D	ICAL 2.5	2.5	12/03/20 19:08
11)	12	1203_10.D	ICAL 5	5.0	12/03/20 19:41
12)	13	1203_11.D	ICAL 25	25	12/03/20 20:17
13)	14	1203_12.D	ICAL 40	40	12/03/20 20:56
14)	18	1203_13.D	xxxxxxxxxx		12/03/20 21:27
15)	16	1203_14.D	ICAL 1	1ppb	12/03/20 22:00
16)	17	1203_15.D	ICAL 10	10ppb	12/03/20 22:33
17)	18	1203_16.D	xxxxxxxxxx		12/03/20 23:09
18)	19	1203_17.D	xxxxxxxxxx		12/03/20 23:46
19)	20	1203_18.D	xxxxxxxxxx		12/04/20 0:22
20)	21	1203_19.D	xxxxxxxxxx		12/04/20 0:58
21)	22	1203_20.D	xxxxxxxxxx		12/04/20 1:35
22)	23	1203_21.D	xxxxxxxxxx		12/04/20 2:16

Injection Log

Data Directory: H:\AIR2020\CHEM24\12DEC\09\

Line	Vl	FileName	SampleName	MiscInfo	Injection Time
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2)	2	1209_02.D	BFB TUNE - CCAL 1	1ppb cc - 1ppb cc	12/09/20 16:06
3)	3	1209_03.D	xxxxxxxxxx		12/09/20 16:40
4)	4	1209_04.D	xxxxxxxxxx		12/09/20 17:16
5)	5	1209_05.D	xxxxxxxxxx		12/09/20 18:14
6)	6	1209_06.D	xxxxxxxxxx		12/09/20 18:45
7)	7	1209_07.D	CH28475 BLANK	CH28475 BLANK	12/09/20 19:16
8)	8	1209_08.D	CH28475 QC	CH28475 QC	12/09/20 19:55
9)	9	1209_09.D	28475 368cc dup	CH28475 DUP	12/09/20 20:36
10)	10	1209_10.D	xxxxxxxxxx		12/09/20 21:16
11)	11	1209_11.D	xxxxxxxxxx		12/09/20 21:56
12)	12	1209_12.D	IA-3	CH28478	12/09/20 22:37
13)	13	1209_13.D	xxxxxxxxxx		12/09/20 23:28
14)	14	1209_14.D	xxxxxxxxxx		12/10/20 0:30
15)	15	1209_15.D	xxxxxxxxxx		12/10/20 1:06
16)	16	1209_16.D	xxxxxxxxxx		12/10/20 1:42
17)	17	1209_17.D	xxxxxxxxxx		12/10/20 2:19
18)	18	1209_18.D	xxxxxxxxxx		12/10/20 2:54
19)	19	1209_19.D	xxxxxxxxxx		12/10/20 3:30
20)	20	1209_20.D	xxxxxxxxxx		12/10/20 4:06
21)	21	1209_21.D	xxxxxxxxxx		12/10/20 4:43
22)	22	1209_22.D	xxxxxxxxxx		12/10/20 5:19
23)	23	1209_23.D	xxxxxxxxxx		12/10/20 5:53
24)	26	1209_26.D	CH28475 LCSD	CH28475 LCSD	12/10/20 10:21
25)	27	1209_27.D	CH28475 LCS	CH28475 LCS	12/10/20 11:16
26)	28	1209_28.D	xxxxxxxxxx		12/10/20 11:48

ATTACHMENT 5
DATA USABILITY SUMMARY REPORT (SEPTEMBER 2021)

Building 700 (330D) Star Group Call Center December 2020 Indoor Air Quality Sampling Data Usability Summary Report

at

iPark 84
Former IBM East Fishkill Facility

September 2021

Prepared for:

Jessica LaClair
New York State Dept. of Environmental Conservation
Dept. of Environmental Remediation
625 Broadway
Albany, New York 12233-7013

WALDEN ENVIRONMENTAL ENGINEERING, PLLC
Industry Leader in Environmental Engineering Consulting
PROACTIVE SOLUTIONS SINCE 1995

Data Usability Summary Report

Indoor Air Quality Investigation
iPark 84, Former IBM East Fishkill Facility
Building 700 (formerly Building 330D) – Star Group (Meehan Oil) Call Center

This Data Usability Summary Report (DUSR) has been prepared to validate the results of additional air sampling conducted in Building 700 (formerly Building 330D) at the above-referenced facility. This supplemental sampling was conducted on December 8, 2020 in support of a continued re-occupancy evaluation. Walden performed the sampling in accordance with the indoor air quality (IAQ) testing plan (dated June 11, 2020) and the conditional approval letter (dated June 30, 2020) received from the New York State Department of Environmental Conservation (NYSDEC) following NYSDEC and New York State Department of Health (NYSDOH) review of the Work Plan.

A summary of the Star Group (Meehan Oil) Call Center supplemental sampling results was submitted to NYSDEC and NYSDOH in a report dated February 3, 2021. Upon reviewing the additional IAQ sampling results, NYSDEC approved continued occupancy of the Star Group (Meehan Oil) Call Center Space in a letter dated July 30, 2021.

This DUSR has been prepared in accordance with NYSDEC Draft DER-10 Appendix 2B – Guidance for Data Deliverables and the Development of Data Usability Summary Reports. The DUSR provides a thorough evaluation of analytical data without using the services of an independent third-party data validator. The primary objective of the DUSR is to determine whether or not the data presented meets project specific criteria for data quality and use.

The analytical data was evaluated by Mr. Lawrence Zeman (Walden), whose experience and qualifications to prepare the DUSR for this project are presented in the attached resume (see Attachment A). The air samples collected for laboratory analysis were submitted to Phoenix Environmental Laboratories, Inc. (Phoenix) of Manchester, NH, a NYSDOH Environmental Laboratory Approval Program (ELAP) certified laboratory (NY Lab Registration #11301), and analyzed for volatile organic compounds (VOCs) via U.S. Environmental Protection Agency (USEPA) Modified Method TO-15 (full list) to achieve lower reporting limits via selective ion monitoring for TCE, vinyl chloride and carbon tetrachloride. The IAQ sample reporting limits are set forth in the NYSDEC-approved testing plan approved on June 30, 2020.

The DUSR process consisted of evaluating the analytical data package produced by Phoenix and answering the following questions.

1. **Were there any deviations in the sampling protocol which deviated from established sampling procedures?**

   The air samples were collected in laboratory provided individually certified, 6-liter Summa® canisters equipped with individually certified flow regulators. The regulators were calibrated by the laboratory for a sampling period of 8 hours; this sampling duration was chosen in accordance with NYSDOH guidance for indoor air sampling of a commercial workspace with a single shift, to reflect the typical exposure scenario. The regulators served to maintain flow rates below the required maximum rate of 0.2 liters (200 milliliters) per minute during the sampling period to minimize outdoor air infiltration.

2. **Is the data package complete as defined under the requirements for the NYSDEC ASP Category B or USEPA CLP deliverables?**

   The sampling and analytical program outlined in the *Building 700 (formerly Building 330D) Star Group aka Meehan Oil Call Center Indoor Air Quality Testing Plan* was designed to conform to the NYSDEC ASP Category B and USEPA CLP deliverables criteria. Both field sampling and laboratory analytical activities were performed with built-in QA/QC programs. The analytical laboratory (Phoenix) included method blanks and batch QA/QC samples as part of their standard QA/QC program. Additionally, the samples were handled in compliance with the holding time allowances.

3. **Have all holding times been met?**

   Times of sample receipt, extraction, and analysis have been evaluated to determine whether the holding time specifications have been met. All of the samples were analyzed within the specified holding times.

4. **Do all QC data (blanks, instrument tunings, calibration standards, calibration verifications, surrogate recoveries, spike recoveries, replicate analyses, laboratory controls, and sample data) fall within the protocol-required limits and specifications?**

   All of the primary sample and QC data were reviewed. Duplicate sample analysis demonstrated a reasonable level of accuracy in the analytical results, and all of the QA/QC data met the protocol-required criteria with the exception as noted below.

   - The continuing calibration exceeded the maximum percent deviation of 30% for 1,2,4-Trichlorobenzene, for samples collected on December 8, 2020.

In summary, although one (1) analyte exceeded the continuing calibration maximum percent deviation, all other QA/QC acceptance criteria was met and the reliability of the laboratory results should not be affected.

5. Have all the data been generated using established and agreed upon analytical protocols?

Laboratory analytical protocols have been developed by the USEPA and are published in USEPA Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air: Method TO-15 (Second Edition, January 1999). The review of the laboratory deliverables indicated that the analytical data for this project was generated following these standard protocols.

6. Does an evaluation of the raw data confirm the results provided in the data summary sheets and quality control verification forms?

An evaluation of the raw data confirmed the accuracy of the results provided in the data summary sheets and the quality control verification forms included in the analytical data package prepared by the laboratory.

7. Have the correct data qualifiers been used?

The laboratory provided a list of qualifiers used in their data reporting. QC failures such as potential sample contamination by laboratory solvents or estimation of sample result values due to analyte concentrations detected above calibration ranges were checked back to the reported data to determine whether the qualifiers were properly used. The evaluation indicated that the laboratory flagged the data using the correct data qualifiers when necessary. The data qualifiers comply with the NYSDEC Analytical Services Protocol (ASP) 95 revised guidelines.

8. Have the minimum reporting limits been met?

The minimum reporting limits specified in the NYSDEC approved *Building 700 (formerly Building 330D) Star Group aka Meehan Oil Call Center Indoor Air Quality Testing Plan* are as follows:

ANALYTE LIST	MINIMUM REPORTING LIMIT (ug/m^3)
1,1,1-Trichloroethane	1.1
1,1-Dichloroethene	0.8
1,2,4-Trichlorobenzene	7.4
1,2-Dichlorobenzene	1.2
1,3-Dichlorobenzene	1.2

1,4-Dichlorobenzene	1.2
Acetone	2.4
Benzene	0.64
Carbon Tetrachloride	0.2
Chlorobenzene	0.92
Cis-1,2-Dichloroethene	0.8
Dichlorodifluoromethane	1.0
Ethylbenzene	0.86
m,p-Xylene	0.86
Methylene Chloride	1.4
o-Xylene	0.86
Tetrachloroethene	1.4
Toluene	0.77
Trichloroethene	0.22
Trichlorofluoromethane	1.1
Trichlorotrifluoroethane	1.5
Vinyl Chloride	0.06

All reportable VOCs meet the minimum required reporting limits for all samples collected in the Star Call Center space at Building 700 (formerly Building 330D) on December 8, 2020.

Summary

In summary, the analytical data package review conducted when preparing this DUSR found no data deficiencies, analytical protocol deviations, or quality control problems that impact the quality of the data. No significant QC exceedances were identified and it was determined that none of the data should be rejected.

Prepared by:

Lawrence Zeman

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Attachment A

Resume of Environmental Professional

Lawrence F. Zeman

Project Scientist II

Lawrence has 20 years of environmental and lab consulting experience, taking on difficult laboratory issues and QA/QC. He is very well versed in areas as diverse as regulatory compliance, test protocol development and implementation, management of instrument repair and maintenance, field inspections and on-site audits, correlation studies of various analyses and engineering/technical reporting.

EDUCATION

B.A. Biology, Minor in Chemistry Queens College

LICENSES/ CERTIFICATIONS

New York State ELAP Laboratory Director

New York State ELAP Laboratory Microbiology Assistant Director

New York Department of Health Laboratory Technologist

OSHA HAZWOPER 40-hour & OSHA 10-hour Certified

SELECTED RELEVANT EXPERIENCE

Various Clients, New York

- Performed sample collection of various sample types at industrial facilities and construction & remediation project sites;
  Conducted soil sample collection, field activities oversight and continuous air monitoring for Community Air Monitoring Program (CAMP) in accordance with DER-10 as follows:
  - Elmhurst Tank Park & Playground, Queens, NY (2009 – 2011);
  - Calvert Vaux Park and Athletic Fields, Brooklyn, NY (2009 – 2011), as an Independent Environmental Monitor (IEM) on-site technician;
  - Harlem Rive Greenway, Bronx, NY (2011 – 2012);
  - Beach Channel H.S. Athletic Fields (2016);
  - P.S. 63M William McKinley School, Manhattan, NY (2016);
  - P.S. 131 Abigail Adams Public School, Queens, NY (2017);
  - Forest Hills High School, Queens, NY (2017)
- Developed and implemented new testing protocols and test procedures;
- Conducted instrumentation repair and scheduled maintenance;
- Conducted correlation studies of various analytic procedures;
- Verified laboratory Quality Assurance and Quality Control procedures and data;
- Responsible for regulatory compliance and quality control;
- Prepared and submitted facilities' annual Zoning Performance Standards Compliance Reports, including noise, vibration, odor and opacity testing for DSNY permit renewal;
- Provided environmental services to ensure compliance for facility's NYS DEC Title V Air Facility Permit. Completed monthly, semi-annual and annual compliance reports;
- Conducted field Inspections and on-site audits;
- Preformed field measurements and recording of Noise and Vibration;
- Prepared Engineering & Technical Reports;
- Prepared New York City Community Right-To-Know Law and SARA reports for Industrial facilities

APPENDIX A

***IAQ TESTING SUMMARY REPORT* (WALDEN, SEPTEMBER 8, 2020)**

Building 700 (Formerly 330D)
Star Group (aka Meehan Oil)
Call Center Indoor Air Quality
Testing Summary Report

at

iPark 84
Former IBM East Fishkill Facility

September 2020

Prepared for:

Jessica LaClair
New York State Dept. of Environmental Conservation
Dept. of Environmental Remediation
625 Broadway
Albany, New York 12233-7013

WALDEN ENVIRONMENTAL ENGINEERING, PLLC

Industry Leader in Environmental Engineering Consulting

PROACTIVE SOLUTIONS SINCE 1995

WALDEN ENVIRONMENTAL ENGINEERING

Sent via email to jess.laclair@dec.ny.gov

September 8, 2020
iPARK0118.38

Ms. Jessica LaClair
Environmental Engineer
Division of Environmental Remediation
New York State Department of Environmental Conservation
625 Broadway
Albany, NY 12233-7013

Re: iPark 84, Former IBM East Fishkill Facility
Building 700 (Formerly Building 330D)
Star Group (aka Meehan Oil) Call Center
Indoor Air Quality Testing Summary Report

Dear Ms. LaClair:

Walden Environmental Engineering, PLLC (Walden) has prepared this letter to summarize the results of the indoor air quality (IAQ) testing conducted on July 7, 2020 on the second floor of Building 700 (formerly Building 330D). Refer to Figure 1 for the site location map. Building 700 is owned by iPark East Fishkill, LLC (iPark); a customer service call center (Star Group, aka Meehan Oil) is leasing space on the second floor of Building 700 immediately above the Crepini space. The slab in the Crepini space is currently depressurized by a Sub Slab Depressurization System (SSDS). At full capacity, the Call Center is expected to hold approximately 125 employees. The purpose of the IAQ testing was to verify that indoor air quality is acceptable in the Call Center space.

Walden, at the request of iPark, performed the IAQ testing in accordance with prescribed protocols previously approved by NYSDEC. All work was performed in accordance with the *RCRA Facility Investigation (RFI) VOC Source Assessment Work Plan* (RFI Work Plan) dated June 15, 2009, prepared by Sanborn, Head Engineering, PC and Walden's IAQ Testing Plan letter (Testing Plan) dated June 11, 2020 which was approved by NYSDEC on June 30, 2020. A copy of the approved Testing Plan is included in Appendix A.

Summary of HVAC Conditions Within the Building

The Call Center space in Building 700 is served by the existing HVAC system, which ran continuously throughout interior renovations. During the July 7th IAQ sampling, iPark operated the HVAC system under normal conditions.

With the exception of incidental cleaning and sanitizing agents, no chemicals are stored within this office space. A copy of the Indoor Air Quality Questionnaire and Building Inventory completed during the IAQ sampling event is presented in Appendix B.

Summary of IAQ Testing

IAQ testing was conducted in accordance with the procedures outlined in the NYSDEC-approved RFI Work Plan and Testing Plan. Samples were collected using 6-liter, individually certified clean, stainless-steel Summa® canisters. The Summa® Canisters were calibrated by the laboratory with individually certified flow controllers to obtain 8-hour time-averaged samples. Indoor air samples were collected from a height of approximately three (3) above the floor at the following five (5) locations throughout the Call Center; the sampling locations are depicted on Figure 2:

- IA-1: Stairwell/Reception Area
- IA-2: Common Area (lunch tables, gathering area)
- IA-3: Conference Room Area (central portion of the space)
- IA-4: Closed Offices Area (southern portion of the space)
- IA-5: Office Open Area (northern portion of the space)

A duplicate sample (DUPLICATE) was collected at location IA-2: Common Area. One (1) outdoor ambient air sample (AA-01) was collected from outside the northwest portion of the building adjacent to one of the air intakes for the HVAC system to assess background conditions and any potential impacts on the IAQ results.

PID readings were collected at each sample location immediately before sample collection began to evaluate whether VOCs were present in the Call Center and had the potential to impact the IAQ results. The following PID readings were recorded:

Sample ID	PID Readings (ppm)
IA-1	0.1
IA-2	0.1
IA-3	0.0
IA-4	0.1
IA-5	0.1
AA-1	0.0

These PID screening measurements indicated no apparent air quality impacts. The presence of cleaning products was recorded in the tenant space (refer to Appendix B).

All samples were transferred to Phoenix Labs of Manchester, CT, a NYSDOH ELAP certified laboratory (NYSDOH ELAP #11301) under chain of custody for analysis of volatile organic compound (VOC) analytes via modified Method TO-15 (full list) to achieve lower reporting limits via selective ion monitoring for TCE, vinyl chloride and carbon tetrachloride. A summary of field sampling information is provided in Table 1. The IAQ laboratory analytical data are provided in Table 2. Photos taken during the sampling are provided in Appendix C. The full laboratory analytical report is provided in Appendix D. A Data Usability Summary Report (DUSR) is being prepared and will be submitted under separate cover.

Results and Discussion

The Call Center IAQ analytical data were compared to the typical indoor air background concentrations published in USEPA's 2001 Building Assessment and Survey Evaluation (BASE) database. When developing BASE, USEPA collected indoor air samples at randomly selected office and commercial buildings using Summa® canisters. Table 2 presents the Call Center IAQ data compared to the 75th, 90th, 95th and 99th percentile indoor air BASE concentrations for reference in comparing the VOC data to typical indoor background concentrations.

All of the VOC concentrations detected in the second-floor Call Center IAQ samples were within or below the range of background concentrations listed in the USEPA BASE database as noted in Table 2, indicating that indoor air quality is acceptable. Based on the results from the IAQ testing presented herein, please confirm that the Call Center within Building 700 is suitable for tenant occupancy.

Please call me at (516) 624-7200 if you have any questions or need any additional information.

Very truly yours,
Walden Environmental Engineering, PLLC

Nora M. Brew, P.E.
VP/Senior Project Manager

Attachments:
Figure 1 – Site Location Map
Figure 2 – Sampling Locations

Table 1 – Summary of Field Information
Table 2 – Summary of IAQ Analysis

Appendix A - IAQ Testing Plan (Walden, June 11, 2020)
Appendix B – Indoor Air Quality Questionnaire and Building Inventory
Appendix C – Photographic Log of Sampling Locations
Appendix D – Laboratory Analytical Report

cc: J. Kenney, NYSDOH
C. Monheit, iPark
M. Buckley, iPark
D. Chartrand, IBM

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N

Star Call Center (Second Floor)

SITE PLAN

SCALE: 1" = 60'-0"

0 30 60 120 180

SCALE: 1"=60'

WALDEN ENVIRONMENTAL ENGINEERING, PLLC
16 SPRING STREET
OYSTER BAY, NEW YORK 11771
P: (516) 624-7200 F: (516) 624-3219
WWW.WALDENENVIRONMENTALENGINEERING.COM

Walden Environmental Engineering

REVISION		
No.	DATE	COMMENTS

FOR: BUILDING 700 (FORMER 330D)
iPark 84 Campus
2070 State Route 52
Hopewell Junction, NY 12533

Site Plan
Building 330D
Star Group Call Center
Second Floor

FIGURE NO: 1

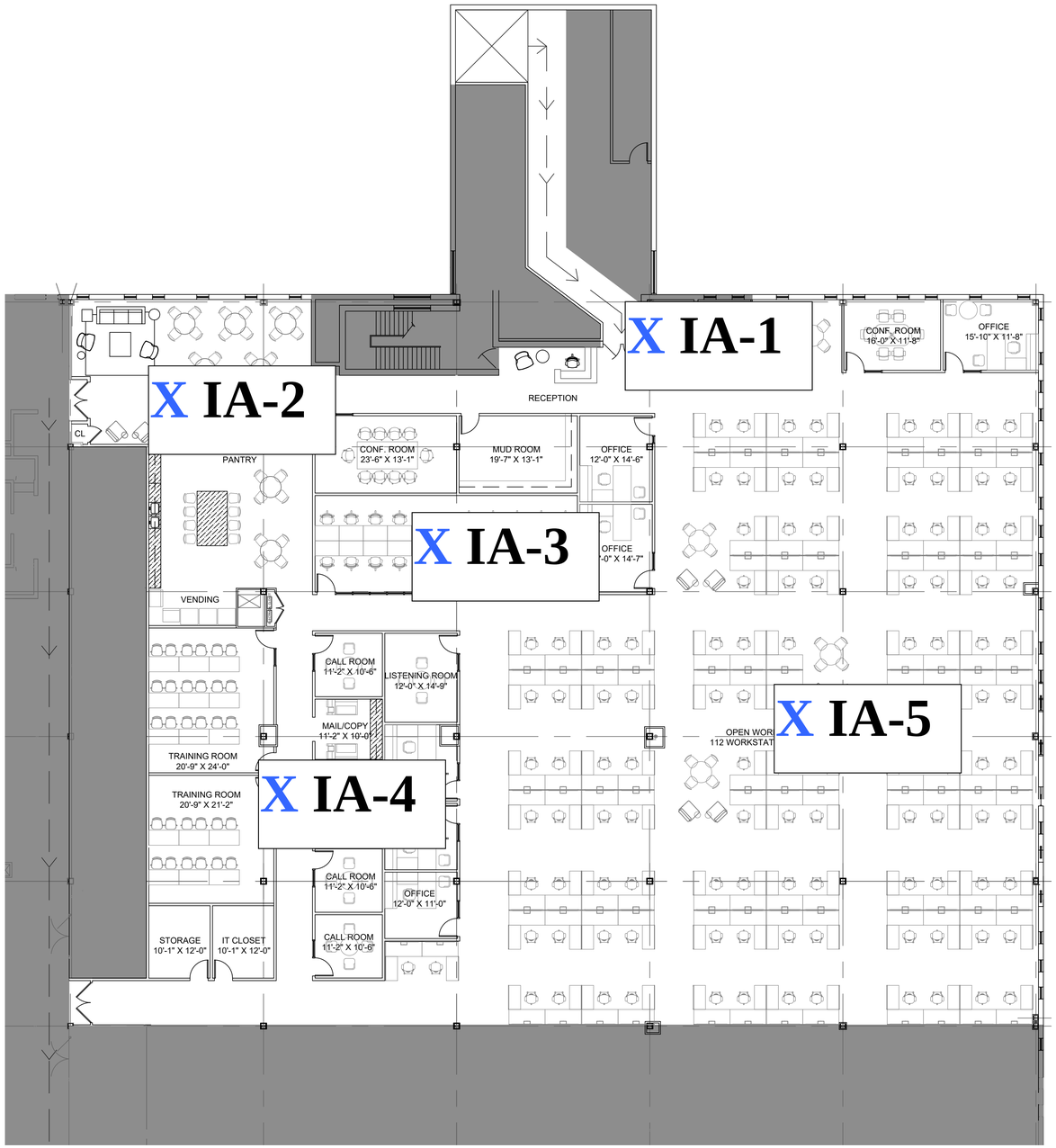
ISSUED

REVISION NO: 0

DESIGNED BY: NMB / GW | DRAWN BY: EJK | JOB NO: IPARK118.35 | DATE: 8/28/19 | 11x17 | SHEET NO: 1 OF 2

APPROVED BY: JMH | SCALE: AS NOTED | CAD FILE NAME: Z:\iPark\118\iPark\118.35 - Bldg 330D Elevator\B330D-Proposed Elevator Installation Work Plan.dwg

Figure 2-IAQ Sampling Locations for Star Call Center-Second Floor



X- Sampling Location

NELSON

22 West 19th St.- Second Floor
New York, NY 10011
Phone: (212) 481-1119
WWW.NELSONWORLDWIDE.COM

THE STAR GROUP TEST FIT
iPARK 84, SECOND FLOOR
200 NORTH DRIVE
POUGHKEEPSIE, NY

Issue:	No:	Date:
SK-01	1	06/21/19
SK-02	2	07/25/19
SK-02.1	3	07/29/19
SK-02.2	4	07/30/19
SK-03	5	08/01/19
SK-03.1	6	08/02/19
SK-04	7	08/05/19
SK-05	8	08/09/19
SK-06	9	08/16/19
SK-06.1	10	08/16/19

SK-06.1

3/32" = 1'-0"

08/16/2019

0 4' 8' 16'

Scale:

Proj #: 19.0002146.000 Reviewed By: RP

iPARK 84 Campus
2070 NY-Route 52
Hopewell Junction, New York

TABLE 1
SUMMARY OF INDOOR AIR SAMPLE INFORMATION (JULY 7, 2020)
BUILDING 700 (FORMER 330D) - Star Group Call Center

Sample Location	Building Floor	Sample Matrix	Canister Number	Regulator Number	Sample Height (feet above floor)	Start Time (24-hour format)	Start Pressure (mmHg)	PID Reading (ppm)	Stop Time (24-hour format)	Stop Pressure (mmHg)	Temperature (°F)	Location Description	Chemicals Observed Near Sample Location
IA-1	Second	Indoor Air	28624	5398	2.5	8:59	-30	0.1	15:41	-5	72	Stairwell/Reception Area	Hand sanitizer
IA-2	Second	Indoor Air	19426	6981	2.5	8:45	-30	0.1	15:45	-1	72	Common Area (lunch tables, gathering area)	Hand sanitizer, dish soaps.
IA-3	Second	Indoor Air	475	5600	2.5	7:48	-26	0.0	13:15	-3	72	Conference Room Area (central portion of the space)	None observed
IA-4	Second	Indoor Air	23343	5353	2.5	8:55	-30	0.1	16:19	-6	72	Closed Offices Area (southern portion of the space)	None observed
IA-5	Second	Indoor Air	28562	3504	2.5	8:56	-29	0.1	16:21	-6	72	Office Open Area (northern portion of the space)	Strong food odor (eggs)
Duplicate	Second	Indoor Air	28581	7036	2.5	8:45	-30	0.1	16:18	-6	72	Common Area (lunch tables, gathering area)	Hand sanitizer, dish soaps.
Ambient Air	Front of Building 700 Air Intake	Ambient Air	28549	7023	1	9:07	-29	0.0	16:11	-5	85 (AM), 90 (PM)	NW Front of Building	None observed

iPARK 84 Campus
2070 NY-Route 52
Hopewell Junction, New York

TABLE 2
SUMMARY OF IAQ ANALYSIS (JULY 7, 2020)
BUILDING 700 (FORMER 330D) - STAR GROUP CALL CENTER

		USEPA BASE Database Tables - Typical Background Concentrations for Indoor Air				Collection Date	7/7/2020		7/7/2020		7/7/2020		7/8/2020		7/7/2020		7/7/2020		7/7/2020	
						Sample ID	IA-1		IA-2		DUPLICATE		IA-3		IA-4		IA-5		AMBIENT AIR	
						Matrix	Air		Air		Air		Air		Air		Air		Air	
	CAS Registry Number	75th Percentile	90th Percentile	95th Percentile	99th Percentile	Location	Stairwell/Reception Area		Common Area		Common Area		Conference Room		Closed Offices Area		Office Open Area		Outdoor Air Intake	
						Units	Result	RL	Result	RL	Result	RL		RL	Result	RL	Result	RL	Result	RL
Volatiles (TO15) By TO15																				
1,1,1-Trichloroethane	71-55-6	10.8	20.6	33.0	737.9	ug/m3	< 1.09	1.09	< 1.09	1.09	< 1.09	1.09	< 1.09	1.09	< 1.09	1.09	< 1.09	1.09	< 1.09	1.09
1,1-Dichloroethene	75-35-4	<1.2	<1.4	<1.6	<1.7	ug/m3	< 0.20	0.40	< 0.20	0.40	< 0.20	0.40	< 0.40	0.40	< 0.20	0.40	< 0.20	0.40	< 0.20	0.40
1,2,4-Trichlorobenzene	120-82-1	<1.2	<6.8	<7.2	<8.1	ug/m3	< 1.85	1.85	< 1.85	1.85	< 1.85	1.85	< 1.85	1.85	< 1.85	1.85	< 1.85	1.85	< 1.85	1.85
1,2-Dichlorobenzene	95-50-1	<1.0	<1.2	<1.3	10.5	ug/m3	< 0.90	0.90	< 0.90	0.90	< 0.90	0.90	< 0.90	0.90	< 0.90	0.90	< 0.90	0.90	< 0.90	0.90
1,3-Dichlorobenzene	541-73-1	<1.1	<2.4	<2.5	<2.8	ug/m3	< 0.90	0.90	< 0.90	0.90	< 0.90	0.90	< 0.90	0.90	< 0.90	0.90	< 0.90	0.90	< 0.90	0.90
1,4-Dichlorobenzene	106-46-7	1.4	5.5	12.5	80.5	ug/m3	< 0.90	0.90	< 0.90	0.90	< 0.90	0.90	< 0.90	0.90	< 0.90	0.90	< 0.90	0.90	< 0.90	0.90
Acetone	67-64-1	59.8	98.9	120.2	226.6	ug/m3	20.3	2.37	20.5	2.37	20.4	2.37	38	2.37	19.9	2.37	20.1	2.37	7.19	2.37
Benzene	71-43-2	5.1	9.4	12.5	25.0	ug/m3	< 0.16	0.16	< 0.16	0.16	< 0.16	0.16	< 0.16	0.16	< 0.16	0.16	< 0.16	0.16	< 0.16	0.16
Carbon Tetrachloride	56-23-5	<1.1	<1.3	0.7	0.9	ug/m3	0.47	0.13	0.52	0.13	0.48	0.13	0.51	0.13	0.46	0.13	0.51	0.13	0.51	0.13
Chlorobenzene	108-90-7	<0.8	<0.9	<1.0	1.0	ug/m3	< 0.92	0.92	< 0.92	0.92	< 0.92	0.92	< 0.92	0.92	< 0.92	0.92	< 0.92	0.92	< 0.92	0.92
Cis-1,2-Dichloroethene	156-59-2	<1.2	<1.9	<2.0	<2.2	ug/m3	< 0.20	0.79	< 0.20	0.79	< 0.20	0.79	< 0.79	0.79	< 0.20	0.79	< 0.20	0.79	< 0.20	0.79
Dichlorodifluoromethane	75-71-8	10.5	16.5	32.9	81.3	ug/m3	5.09	0.99	4.88	0.99	4.75	0.99	4.37	0.99	5.04	0.99	5.09	0.99	2.45	0.99
Ethylbenzene	100-41-4	3.4	5.7	7.6	18.5	ug/m3	< 0.65	0.65	< 0.65	0.65	< 0.65	0.65	< 0.65	0.65	< 0.65	0.65	< 0.65	0.65	< 0.65	0.65
m,p-Xylene	179601-23-1	12.2	22.2	28.5	67.6	ug/m3	1.00	0.65	1.00	0.65	1.06	0.65	2.42	0.65	1.15	0.65	1.04	0.65	< 0.65	0.65
Methylene Chloride	75-09-2	5.0	10.0	16.0	1155.6	ug/m3	1.41	1.39	< 1.39	1.39	< 1.39	1.39	< 1.39	1.39	< 1.39	1.39	< 1.39	1.39	< 1.39	1.39
o-Xylene	95-47-6	4.4	7.9	11.2	20.1	ug/m3	< 0.65	0.65	< 0.65	0.65	< 0.65	0.65	0.85	0.65	< 0.65	0.65	< 0.65	0.65	< 0.65	0.65
Tetrachloroethene	127-18-4	5.9	15.9	25.4	55.6	ug/m3	1.22	0.68	1.22	0.68	1.29	0.68	2.24	0.68	1.17	0.68	1.23	0.68	< 0.68	0.68
Toluene	108-88-3	25.9	43.0	70.8	348.9	ug/m3	20.1	0.75	20	0.75	21	0.75	18	0.75	20.3	0.75	20.5	0.75	< 0.75	0.75
Trichloroethene	79-01-6	1.2	4.2	6.5	57.0	ug/m3	< 0.20	0.20	< 0.20	0.20	< 0.20	0.20	0.32	0.20	< 0.20	0.20	< 0.20	0.20	< 0.20	0.20
Trichlorofluoromethane	75-69-4	6.7	18.1	54.0	860.6	ug/m3	45.4	0.84	44.9	0.84	45.4	0.84	50.5	0.84	44.5	0.84	45	0.84	2.26	0.84
Trichlorotrifluoroethane	76-13-1	<3.0	3.5	9.4	19.7	ug/m3	< 1.15	1.15	< 1.15	1.15	< 1.15	1.15	< 1.15	1.15	< 1.15	1.15	< 1.15	1.15	< 1.15	1.15
Vinyl Chloride	75-01-4	<1.0	<1.9	<2.2	<2.6	ug/m3	< 0.05	.05	< 0.05	0.05	< 0.05	0.05	< 0.05	0.05	< 0.05	0.05	< 0.05	0.05	< 0.05	0.05

Result Detected

APPENDIX A

IAQ TESTING PLAN (WALDEN, JUNE 11, 2020)

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Division of Environmental Remediation, Remedial Bureau D
625 Broadway, 12th Floor, Albany, NY 12233-7013
P: (518) 402-9676 I F: (518) 402-9773
www.dec.ny.gov

June 30, 2020

Joseph Cotter
iPark 84
200 North Drive
Hopewell Junction, NY 12533

Re: Building 330D 2nd Floor – Meehan Oil Call Center
Indoor Air Quality Testing Plan
Former IBM East Fishkill Facility, East Fishkill, New York
NYSDEC Site No. 314054, EPA ID NYD000707901

Dear Mr. Cotter:

The Department of Environmental Conservation and Department of Health (Departments) have reviewed the Indoor Air Quality (IAQ) Testing Plan submitted by Walden Environmental Engineering, PLLC on behalf of National Resources on June 11, 2020. The IAQ testing plan will evaluate the indoor air quality on the second floor of Building 330D, where a new call center will be located. The call center area is above the Crepini space, which has a sub-slab depressurization system operating.

This IAQ Testing Plan is conditionally approved with the inclusion and completion of the product inventory/building questionnaire for the second-floor space. If you have any questions, please feel free to contact me at (518) 402-9821.

Sincerely,

Jessica LaClair
Project Manager
Remedial Section A, Remedial Bureau D
Division of Environmental Remediation

ec: M. Buckley, iPark
C. Monheit, National Resources
N. Brew, Walden
J. Heaney, Walden
D. Chartrand, IBM
E. Lutz, GF
G. Marone, GF
S. Edwards, NYSDEC - DER
J. Armitage, NYSDEC - DER
B. Conlon, NYSDEC - OGC

J. Kenney, NYSDOH
M. Schuck, NYSDOH

WALDEN ENVIRONMENTAL ENGINEERING

Sent via email to jess.laclair@dec.ny.gov

June 11, 2020
iPARK0118.38

Jessica LaClair
Environmental Engineer
Division of Environmental Remediation
New York State Department of Environmental Conservation
625 Broadway
Albany, NY 12233-7013

Re: iPark 84, Former IBM East Fishkill Facility
Building 700 (formerly Building 330D)
Star Group aka Meehan Oil Call Center
Indoor Air Quality Testing Plan

Dear Ms. LaClair:

Walden Environmental Engineering, PLLC (Walden) has prepared this letter to summarize the Indoor Air Quality (IAQ) testing proposed to evaluate indoor air quality within Building 700 (formerly building 330D) at the Former IBM East Fishkill facility (Facility). A customer service call center is leasing space in Building 700 on the second floor immediately above the Crepini space. The slab of the Crepini space is currently depressurized by a Sub Slab Depressurization System (SSDS). It is understood that NYSDEC and NYSDOH require this sampling to be completed and the results reported to the State to verify that IAQ is acceptable in this space.

Walden, at the request of iPark, shall perform the IAQ testing in accordance with the procedures detailed in the June 15, 2009 *RCRA Facility Investigation (RFI) VOC Source Assessment Work Plan* (*RFI Work Plan,* prepared on behalf of IBM) which was previously approved by NYSDEC. The proposed IAQ sampling locations are shown on Figure 2 and listed below. The actual sampling locations will be determined in the field. Any significant changes from the locations shown on Figure 2 will be discussed with NYSDEC and NYSDOH to gain the State's concurrence before sample collection begins. The call center space in Building 700 is served by the existing HVAC system which has run continuously throughout interior renovations. The HVAC system will be operating during the IAQ sampling. With the exception of incidental cleaning agents, no chemicals are stored within this office space. At full capacity, the call center is expected to hold approximately 125 employees.

Sample ID	Sampling Area
IA-1	Stairwell/Reception Area
IA-2	Common Area (lunch tables, gathering area)
IA-3	Conference Room Area (central portion of the space)
IA-4	Closed Offices Area (southern portion of the space)
IA-5	Office Open Area (northern portion of the space)

In addition to the samples referenced above, one duplicate sample (IA-Duplicate) will be collected at one of the sample locations which will be determined in the field. One outdoor ambient air sample (AA-01) will be collected at the HVAC unit intake to assess background conditions and identify any background impacts to IAQ.

All samples will be submitted to Phoenix Labs of Manchester, CT, a NYSDOH ELAP certified laboratory (NYSDOH ELAP #11301) for analysis of VOC analytes via Method TO-15. The analysis will include a modified Method TO-15 as specified in the June 2009 *RFI Work Plan* to achieve lower reporting limits via selective ion monitoring for TCE, vinyl chloride and carbon tetrachloride. The IAQ data will be evaluated, validated and presented in a summary report that will be submitted to NYSDEC and NYSDOH for review. Data generated during these Building 700 IAQ sampling activities will be shared with IBM. Note that iPark will provide the results of the IAQ sampling to the tenant within 45 days of receiving the validated data.

Please call me at (516) 624-7200 if you have any questions or need any additional information.

Very truly yours,
Walden Environmental Engineering, PLLC

Nora M. Brew, P.E.
Senior Project Manager

cc: J. Kenney, NYSDOH
C. Monheit, National Resources
M. Buckley, National Resources
D. Chartrand, IBM

Z:\Ipark0118\Ipark0118.38 - Bldg 330D Star Call Center\Call Center-Second Floor\IAQ Sampling.Docx

FIGURE 1

SITE PLAN

N

Star Call Center (Second Floor)

SITE PLAN

SCALE: 1" = 60'-0"

0 30 60 120 180

SCALE: 1"=60'

WALDEN ENVIRONMENTAL ENGINEERING, PLLC
16 SPRING STREET
OYSTER BAY, NEW YORK 11771
P: (516) 624-7200 F: (516) 624-3219
WWW.WALDENENVIRONMENTALENGINEERING.COM

Walden Environmental Engineering

REVISION		
No.	DATE	COMMENTS

FOR: BUILDING 700 (FORMER 330D)
iPark 84 Campus
2070 State Route 52
Hopewell Junction, NY 12533

Site Plan
Building 330D
Star Group Call Center
Second Floor

FIGURE NO: 1

ISSUED

REVISION NO: 0

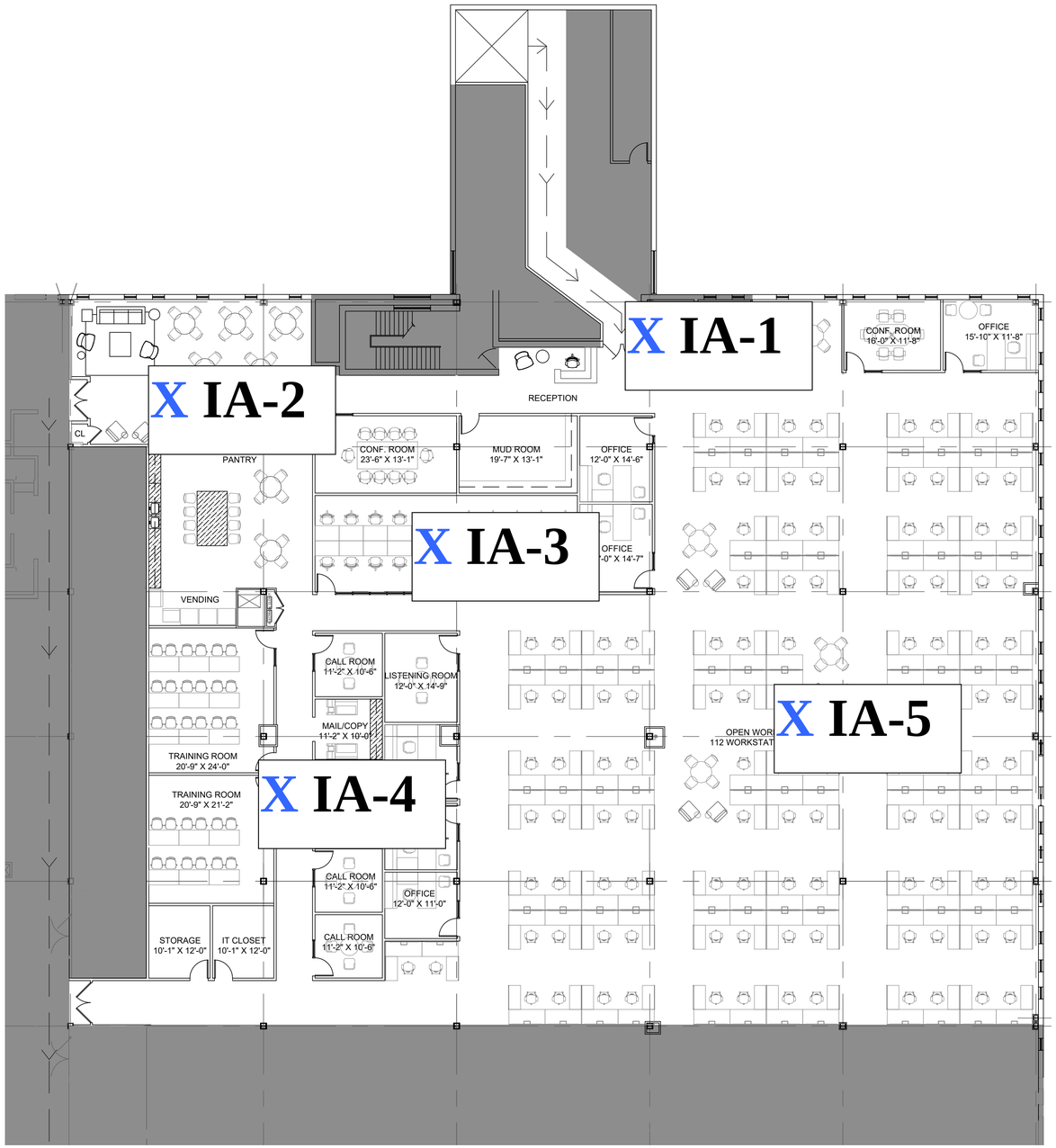
DESIGNED BY: NMB / GW | DRAWN BY: EJK | JOB NO: IPARK118.35 | DATE: 8/28/19 | 11x17 | SHEET NO: 1 OF 2

APPROVED BY: JMH | SCALE: AS NOTED | CAD FILE NAME: Z:\iPark\118\iPark\118.35 - Bldg 330D Elevator\B330D-Proposed Elevator Installation Work Plan.dwg

FIGURE 2

IAQ SAMPLING LOCATIONS

Figure 2-Proposed IAQ Sampling Locations for Star Call Center- Second Floor



X- Proposed Sampling Location

NELSON

22 West 19th St.- Second Floor
New York, NY 10011
Phone: (212) 481-1119
WWW.NELSONWORLDWIDE.COM

THE STAR GROUP TEST FIT
iPARK 84, SECOND FLOOR
200 NORTH DRIVE
POUGHKEEPSIE, NY

Issue:	No:	Date:
SK-01	1	06/21/19
SK-02	2	07/25/19
SK-02.1	3	07/29/19
SK-02.2	4	07/30/19
SK-03	5	08/01/19
SK-03.1	6	08/02/19
SK-04	7	08/05/19
SK-05	8	08/09/19
SK-06	9	08/16/19
SK-06.1	10	08/16/19

SK-06.1

3/32" = 1'-0"

08/16/2019

0 4' 8' 16'

Scale:

Proj #: 19.0002146.000 Reviewed By: RP

APPENDIX B

INDOOR AIR QUALITY QUESTIONNAIRE AND BUILDING INVENTORY

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 Kerri Wright Date/Time Prepared 7/7/20

Preparer's Affiliation Project Scientist Phone No. 845 207 3043

Purpose of Investigation Indoor Air Quality - 1 Park 118.38 Star Group Call Center

1. OCCUPANT:

Interviewed: (Y) / N

Last Name: Vitya First Name: Dardan (Danny)

Address: 200 North Drive

County: Dutchess

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: NO

If multiple units, how many? N/A

If the property is commercial, type?

Business Type(s) Call center secondfloor

Does it include residences (i.e., multi-use)? Y / N If yes, how many? _____

Other characteristics:

Number of floors 1 Building age 1980s

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:

Airflow between floors

N/A

Airflow near source

N/A

Outdoor air infiltration

N/A

Infiltration into air ducts

Moderate

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

a. Above grade construction:		wood frame	(concrete)	stone	brick
b. Basement type:	N/A	full	crawlspace	slab	other _____
c. Basement floor:	N/A	concrete	dirt	stone	other _____
d. Basement floor:	N/A	uncovered	covered	covered with _____	
e. Concrete floor:		unsealed	(sealed)	sealed with _____	
f. Foundation walls:	N/A	poured	block	stone	other _____
g. Foundation walls:	N/A	unsealed	sealed	sealed with _____	
h. The basement is:	N/A	wet	damp	dry	moldy
i. The basement is:	N/A	finished	unfinished	partially finished	
j. Sump present?		Y / (N)			
k. Water in sump?		Y / (N) / not applicable			

Basement/Lowest level depth below grade: N/A (feet) lowest level on grade

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

N/A

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: Natural Gas

Boiler/furnace located in: Basement Outdoors Main Floor Other top floor

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.

Recently updated HVAC

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	
1st Floor	crepini
2nd Floor	Star Group Can Cl
3rd Floor	
4th Floor	

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 stored in the garage (e.g., lawnmower, atv, car) Y / N / NA Please specify_____

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? disinfectants

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? _____

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: GF WWTP
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:

See attached

First Floor:

See attached

12. OUTDOOR PLOT

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.

See attached

13. PRODUCT INVENTORY FORM

Make & Model of field instrument used: MiniRae 3000

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
Reception Area	hand sanitizer	1gal	U	Unknown	0.0	Y
Office	fire extinguisher		UO		0.0	Y
	windex	.5gal	U		0.0	Y
	neutral floor clean	1gal	U		0.0	Y
	lysol	22fl oz	U		0.0	Y
	clorox clean	1.5fl oz	U		0.0	Y
	Elite Washafloid	1gal	U		0.0	Y
	Hydrogen Peroxide Cleaner	1gal	U		0.0	Y
	Profit disinfectwipes		U		0.0	Y
	lysol spray		U		0.0	Y

* 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.

Indoor Air Quality Questionnaire and Building Inventory
Product Inventory Photographs - July 7, 2020
Former IBM East Fishkill Facility – Building 700 (330D)
SECOND FLOOR STAR GROUP CALL CENTER

Photo #1: Office

Photo #2: Office

Photo #3: Office

Photo #4: Office

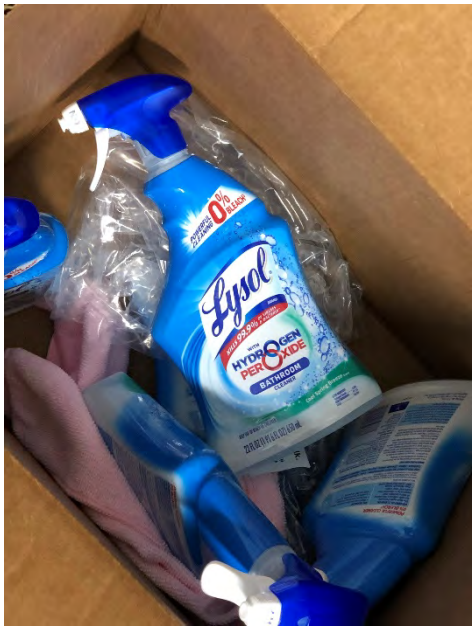


Photo #5: Office

Photo #6: Office

Photo #7: Office

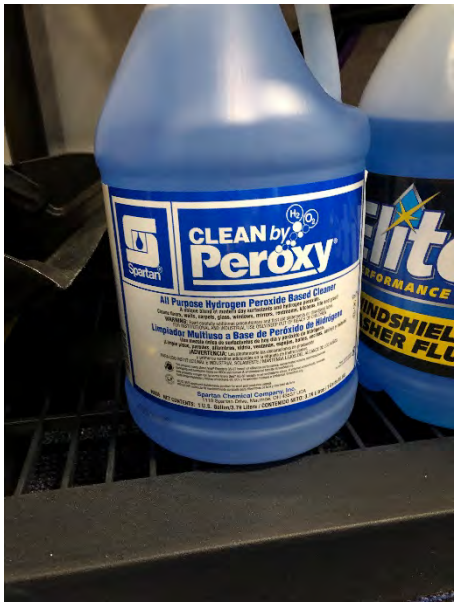


Photo #8: Office

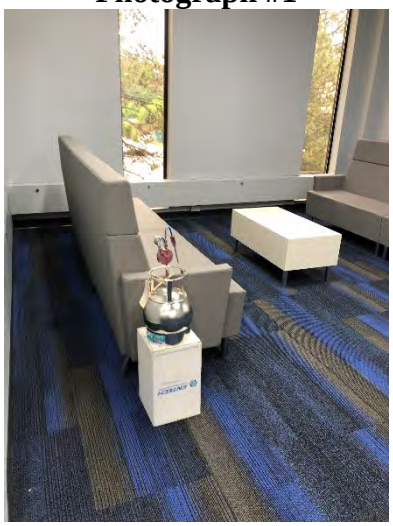
Photo #9: Office

Photo #10: Office

APPENDIX C
PHOTOGRAPHIC LOG OF SAMPLING LOCATIONS

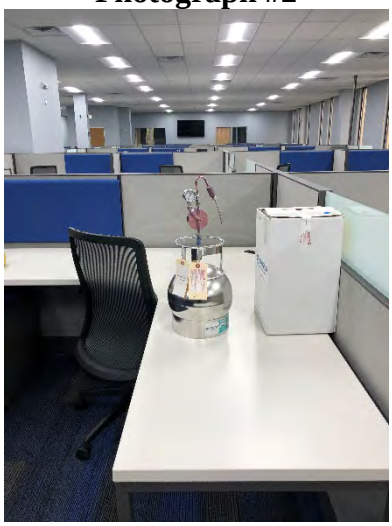
Site Photographs – July 7, 2020

Photograph #1



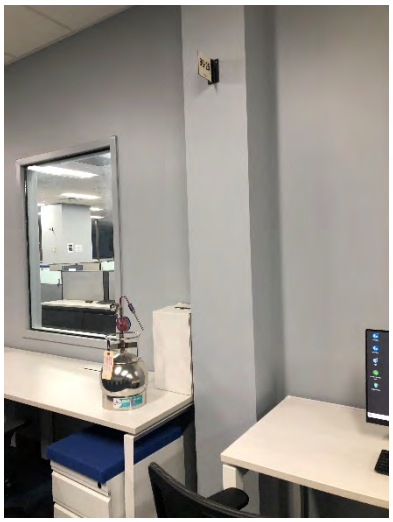
Sample Location IA-1,
Stairwell/Reception Area

Photograph #2



Sample Location IA-5,
Office Open Area (northern portion of the space)

Photograph #3



Sample Location IA-3,
Conference Room Area (central portion of the space)

Photograph #4

Sample Location AA-1,
NW Front of Building

APPENDIX D

LABORATORY ANALYTICAL REPORT

PHOENIX
Environmental Laboratories, Inc.

Friday, July 10, 2020

Attn: Nora Brew
Walden Environmental Engineering PLLC
16 Spring Street
Oyster Bay, NY 11771

Project ID: **IPARK0118.33**
SDG ID: **GCG29877**
Sample ID#s: **CG29877 - CG29882**

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.

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.

Sincerely yours,

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
UT Lab Registration #CT00007
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

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

SDG Comments

July 10, 2020

SDG I.D.: GCG29877

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.

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

NY # 11301

Sample Id Cross Reference

July 10, 2020

SDG I.D.: GCG29877

Project ID: IPARK0118.33

Client Id	Lab Id	Matrix
IA-DUP (CALL CENTER)	CG29877	AIR
IA-4 (CALL CENTER)	CG29878	AIR
IA-5 (CALL CENTER)	CG29879	AIR
IA-1 (CALL CENTER)	CG29880	AIR
AA-1 (CALL CENTER)	CG29881	AIR
IA-2 (CALL CENTER)	CG29882	AIR

PHOENIX

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

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

July 10, 2020

FOR: Attn: Nora Brew
Walden Environmental Engineering PLLC
16 Spring Street
Oyster Bay, NY 11771

Sample Information		Custody Information		Date	Time
Matrix:	AIR	Collected by:	EJ	07/07/20	16:18
Location Code:	WALDENE-IPARK	Received by:	SW	07/08/20	16:37
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:	0118.33+.40				
Canister Id:	28581				

Laboratory Data

SDG ID: GCG29877
Phoenix ID: CG29877

Project ID: IPARK0118.33
Client ID: IA-DUP (CALL CENTER)

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution
Volatiles (TO15)									
1,1,1-Trichloroethane	ND	*0.200*	0.200	ND	*1.09*	1.09	07/09/20	KCA	1
1,1-Dichloroethene	ND	*0.050*	0.100	ND	*0.20*	0.40	07/09/20	KCA	1
1,2,4-Trichlorobenzene	ND	*0.250*	0.250	ND	*1.85*	1.85	07/09/20	KCA	1
1,2-Dichlorobenzene	ND	*0.150*	0.150	ND	*0.90*	0.90	07/09/20	KCA	1
1,3-Dichlorobenzene	ND	*0.150*	0.150	ND	*0.90*	0.90	07/09/20	KCA	1
1,4-Dichlorobenzene	ND	*0.150*	0.150	ND	*0.90*	0.90	07/09/20	KCA	1
Acetone	8.59	*1.00*	1.00	20.4	*2.37*	2.37	07/09/20	KCA	1
Benzene	ND	*0.050*	0.050	ND	*0.16*	0.16	07/09/20	KCA	1
Carbon Tetrachloride	0.076	*0.020*	0.020	0.48	*0.13*	0.13	07/09/20	KCA	1
Chlorobenzene	ND	*0.200*	0.200	ND	*0.92*	0.92	07/09/20	KCA	1
Cis-1,2-Dichloroethene	ND	*0.050*	0.200	ND	*0.20*	0.79	07/09/20	KCA	1
Dichlorodifluoromethane	0.961	*0.200*	0.200	4.75	*0.99*	0.99	07/09/20	KCA	1
Ethylbenzene	ND	*0.150*	0.150	ND	*0.65*	0.65	07/09/20	KCA	1
m,p-Xylene	0.244	*0.150*	0.150	1.06	*0.65*	0.65	07/09/20	KCA	1
Methylene Chloride	ND	*0.400*	0.400	ND	*1.39*	1.39	07/09/20	KCA	1
o-Xylene	ND	*0.150*	0.150	ND	*0.65*	0.65	07/09/20	KCA	1
Tetrachloroethene	0.191	*0.100*	0.100	1.29	*0.68*	0.68	07/09/20	KCA	1
Toluene	5.57	*0.200*	0.200	21.0	*0.75*	0.75	07/09/20	KCA	1
Trichloroethene	ND	*0.037*	0.037	ND	*0.20*	0.20	07/09/20	KCA	1
Trichlorofluoromethane	8.09	*0.150*	0.150	45.4	*0.84*	0.84	07/09/20	KCA	1
Trichlorotrifluoroethane	ND	*0.150*	0.150	ND	*1.15*	1.15	07/09/20	KCA	1
Vinyl Chloride	ND	*0.020*	0.020	ND	*0.05*	0.05	07/09/20	KCA	1
QA/QC Surrogates/Internals									
% Bromofluorobenzene	95	*%*	%	95	*%*	%	07/09/20	KCA	1
% IS-1,4-Difluorobenzene	90	*%*	%	90	*%*	%	07/09/20	KCA	1
% IS-Bromochloromethane	97	*%*	%	97	*%*	%	07/09/20	KCA	1

Ver 1

Project ID: IPARK0118.33 Phoenix I.D.: CG29877

Client ID: IA-DUP (CALL CENTER)

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	
% IS-Chlorobenzene-d5	98	%	%	98	%	%	07/09/20	KCA	1

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 (preceeded 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

July 10, 2020

Reviewed and Released by: Greg Lawrence, Assistant Lab Director

PHOENIX

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

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

July 10, 2020

FOR: Attn: Nora Brew
Walden Environmental Engineering PLLC
16 Spring Street
Oyster Bay, NY 11771

Sample Information		Custody Information		Date	Time
Matrix:	AIR	Collected by:	EJ	07/07/20	16:19
Location Code:	WALDENE-IPARK	Received by:	SW	07/08/20	16:37
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:	0118.33+.40				
Canister Id:	23343				

Laboratory Data

SDG ID: GCG29877
Phoenix ID: CG29878

Project ID: IPARK0118.33
Client ID: IA-4 (CALL CENTER)

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution
Volatiles (TO15)									
1,1,1-Trichloroethane	ND	*0.200*	0.200	ND	*1.09*	1.09	07/09/20	KCA	1
1,1-Dichloroethene	ND	*0.050*	0.100	ND	*0.20*	0.40	07/09/20	KCA	1
1,2,4-Trichlorobenzene	ND	*0.250*	0.250	ND	*1.85*	1.85	07/09/20	KCA	1
1,2-Dichlorobenzene	ND	*0.150*	0.150	ND	*0.90*	0.90	07/09/20	KCA	1
1,3-Dichlorobenzene	ND	*0.150*	0.150	ND	*0.90*	0.90	07/09/20	KCA	1
1,4-Dichlorobenzene	ND	*0.150*	0.150	ND	*0.90*	0.90	07/09/20	KCA	1
Acetone	8.39	*1.00*	1.00	19.9	*2.37*	2.37	07/09/20	KCA	1
Benzene	ND	*0.050*	0.050	ND	*0.16*	0.16	07/09/20	KCA	1
Carbon Tetrachloride	0.073	*0.020*	0.020	0.46	*0.13*	0.13	07/09/20	KCA	1
Chlorobenzene	ND	*0.200*	0.200	ND	*0.92*	0.92	07/09/20	KCA	1
Cis-1,2-Dichloroethene	ND	*0.050*	0.200	ND	*0.20*	0.79	07/09/20	KCA	1
Dichlorodifluoromethane	1.02	*0.200*	0.200	5.04	*0.99*	0.99	07/09/20	KCA	1
Ethylbenzene	ND	*0.150*	0.150	ND	*0.65*	0.65	07/09/20	KCA	1
m,p-Xylene	0.266	*0.150*	0.150	1.15	*0.65*	0.65	07/09/20	KCA	1
Methylene Chloride	ND	*0.400*	0.400	ND	*1.39*	1.39	07/09/20	KCA	1
o-Xylene	ND	*0.150*	0.150	ND	*0.65*	0.65	07/09/20	KCA	1
Tetrachloroethene	0.173	*0.100*	0.100	1.17	*0.68*	0.68	07/09/20	KCA	1
Toluene	5.40	*0.200*	0.200	20.3	*0.75*	0.75	07/09/20	KCA	1
Trichloroethene	ND	*0.037*	0.037	ND	*0.20*	0.20	07/09/20	KCA	1
Trichlorofluoromethane	7.92	*0.150*	0.150	44.5	*0.84*	0.84	07/09/20	KCA	1
Trichlorotrifluoroethane	ND	*0.150*	0.150	ND	*1.15*	1.15	07/09/20	KCA	1
Vinyl Chloride	ND	*0.020*	0.020	ND	*0.05*	0.05	07/09/20	KCA	1
QA/QC Surrogates/Internals									
% Bromofluorobenzene	97	*%*	%	97	*%*	%	07/09/20	KCA	1
% IS-1,4-Difluorobenzene	93	*%*	%	93	*%*	%	07/09/20	KCA	1
% IS-Bromochloromethane	100	*%*	%	100	*%*	%	07/09/20	KCA	1

Ver 1

Project ID: IPARK0118.33 Phoenix I.D.: CG29878

Client ID: IA-4 (CALL CENTER)

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	
% IS-Chlorobenzene-d5	99	%	%	99	%	%	07/09/20	KCA	1

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 (preceeded 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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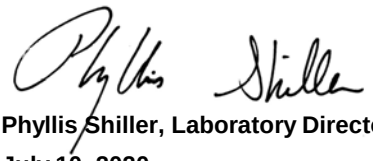

Phyllis Shiller, Laboratory Director

July 10, 2020

Reviewed and Released by: Greg Lawrence, Assistant Lab Director

PHOENIX

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

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

July 10, 2020

FOR: Attn: Nora Brew
Walden Environmental Engineering PLLC
16 Spring Street
Oyster Bay, NY 11771

Sample Information		Custody Information		Date	Time
Matrix:	AIR	Collected by:	EJ	07/07/20	16:21
Location Code:	WALDENE-IPARK	Received by:	SW	07/08/20	16:37
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:	0118.33+.40				
Canister Id:	28562				

Laboratory Data

SDG ID: GCG29877
Phoenix ID: CG29879

Project ID: IPARK0118.33
Client ID: IA-5 (CALL CENTER)

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution
Volatiles (TO15)									
1,1,1-Trichloroethane	ND	*0.200*	0.200	ND	*1.09*	1.09	07/09/20	KCA	1
1,1-Dichloroethene	ND	*0.050*	0.100	ND	*0.20*	0.40	07/09/20	KCA	1
1,2,4-Trichlorobenzene	ND	*0.250*	0.250	ND	*1.85*	1.85	07/09/20	KCA	1
1,2-Dichlorobenzene	ND	*0.150*	0.150	ND	*0.90*	0.90	07/09/20	KCA	1
1,3-Dichlorobenzene	ND	*0.150*	0.150	ND	*0.90*	0.90	07/09/20	KCA	1
1,4-Dichlorobenzene	ND	*0.150*	0.150	ND	*0.90*	0.90	07/09/20	KCA	1
Acetone	8.45	*1.00*	1.00	20.1	*2.37*	2.37	07/09/20	KCA	1
Benzene	ND	*0.050*	0.050	ND	*0.16*	0.16	07/09/20	KCA	1
Carbon Tetrachloride	0.081	*0.020*	0.020	0.51	*0.13*	0.13	07/09/20	KCA	1
Chlorobenzene	ND	*0.200*	0.200	ND	*0.92*	0.92	07/09/20	KCA	1
Cis-1,2-Dichloroethene	ND	*0.050*	0.200	ND	*0.20*	0.79	07/09/20	KCA	1
Dichlorodifluoromethane	1.03	*0.200*	0.200	5.09	*0.99*	0.99	07/09/20	KCA	1
Ethylbenzene	ND	*0.150*	0.150	ND	*0.65*	0.65	07/09/20	KCA	1
m,p-Xylene	0.240	*0.150*	0.150	1.04	*0.65*	0.65	07/09/20	KCA	1
Methylene Chloride	ND	*0.400*	0.400	ND	*1.39*	1.39	07/09/20	KCA	1
o-Xylene	ND	*0.150*	0.150	ND	*0.65*	0.65	07/09/20	KCA	1
Tetrachloroethene	0.182	*0.100*	0.100	1.23	*0.68*	0.68	07/09/20	KCA	1
Toluene	5.45	*0.200*	0.200	20.5	*0.75*	0.75	07/09/20	KCA	1
Trichloroethene	ND	*0.037*	0.037	ND	*0.20*	0.20	07/09/20	KCA	1
Trichlorofluoromethane	8.02	*0.150*	0.150	45.0	*0.84*	0.84	07/09/20	KCA	1
Trichlorotrifluoroethane	ND	*0.150*	0.150	ND	*1.15*	1.15	07/09/20	KCA	1
Vinyl Chloride	ND	*0.020*	0.020	ND	*0.05*	0.05	07/09/20	KCA	1
QA/QC Surrogates/Internals									
% Bromofluorobenzene	95	*%*	%	95	*%*	%	07/09/20	KCA	1
% IS-1,4-Difluorobenzene	92	*%*	%	92	*%*	%	07/09/20	KCA	1
% IS-Bromochloromethane	99	*%*	%	99	*%*	%	07/09/20	KCA	1

Project ID: IPARK0118.33
Client ID: IA-5 (CALL CENTER)

Phoenix I.D.: CG29879

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	
% IS-Chlorobenzene-d5	99	%	%	99	%	%	07/09/20	KCA	1

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 (preceeded 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
July 10, 2020
Reviewed and Released by: Greg Lawrence, Assistant Lab Director

PHOENIX

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

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

July 10, 2020

FOR: Attn: Nora Brew
Walden Environmental Engineering PLLC
16 Spring Street
Oyster Bay, NY 11771

Sample Information		Custody Information		Date	Time
Matrix:	AIR	Collected by:	EJ	07/07/20	15:41
Location Code:	WALDENE-IPARK	Received by:	SW	07/08/20	16:37
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:	0118.33+.40				
Canister Id:	28624				

Laboratory Data

SDG ID: GCG29877
Phoenix ID: CG29880

Project ID: IPARK0118.33
Client ID: IA-1 (CALL CENTER)

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution
Volatiles (TO15)									
1,1,1-Trichloroethane	ND	*0.200*	0.200	ND	*1.09*	1.09	07/09/20	KCA	1
1,1-Dichloroethene	ND	*0.050*	0.100	ND	*0.20*	0.40	07/09/20	KCA	1
1,2,4-Trichlorobenzene	ND	*0.250*	0.250	ND	*1.85*	1.85	07/09/20	KCA	1
1,2-Dichlorobenzene	ND	*0.150*	0.150	ND	*0.90*	0.90	07/09/20	KCA	1
1,3-Dichlorobenzene	ND	*0.150*	0.150	ND	*0.90*	0.90	07/09/20	KCA	1
1,4-Dichlorobenzene	ND	*0.150*	0.150	ND	*0.90*	0.90	07/09/20	KCA	1
Acetone	8.53	*1.00*	1.00	20.3	*2.37*	2.37	07/09/20	KCA	1
Benzene	ND	*0.050*	0.050	ND	*0.16*	0.16	07/09/20	KCA	1
Carbon Tetrachloride	0.075	*0.020*	0.020	0.47	*0.13*	0.13	07/09/20	KCA	1
Chlorobenzene	ND	*0.200*	0.200	ND	*0.92*	0.92	07/09/20	KCA	1
Cis-1,2-Dichloroethene	ND	*0.050*	0.200	ND	*0.20*	0.79	07/09/20	KCA	1
Dichlorodifluoromethane	1.03	*0.200*	0.200	5.09	*0.99*	0.99	07/09/20	KCA	1
Ethylbenzene	ND	*0.150*	0.150	ND	*0.65*	0.65	07/09/20	KCA	1
m,p-Xylene	0.231	*0.150*	0.150	1.00	*0.65*	0.65	07/09/20	KCA	1
Methylene Chloride	0.405	*0.400*	0.400	1.41	*1.39*	1.39	07/09/20	KCA	1
o-Xylene	ND	*0.150*	0.150	ND	*0.65*	0.65	07/09/20	KCA	1
Tetrachloroethene	0.180	*0.100*	0.100	1.22	*0.68*	0.68	07/09/20	KCA	1
Toluene	5.34	*0.200*	0.200	20.1	*0.75*	0.75	07/09/20	KCA	1
Trichloroethene	ND	*0.037*	0.037	ND	*0.20*	0.20	07/09/20	KCA	1
Trichlorofluoromethane	8.08	*0.150*	0.150	45.4	*0.84*	0.84	07/09/20	KCA	1
Trichlorotrifluoroethane	ND	*0.150*	0.150	ND	*1.15*	1.15	07/09/20	KCA	1
Vinyl Chloride	ND	*0.020*	0.020	ND	*0.05*	0.05	07/09/20	KCA	1
QA/QC Surrogates/Internals									
% Bromofluorobenzene	95	*%*	%	95	*%*	%	07/09/20	KCA	1
% IS-1,4-Difluorobenzene	91	*%*	%	91	*%*	%	07/09/20	KCA	1
% IS-Bromochloromethane	98	*%*	%	98	*%*	%	07/09/20	KCA	1

Project ID: IPARK0118.33 Phoenix I.D.: CG29880

Client ID: IA-1 (CALL CENTER)

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	
% IS-Chlorobenzene-d5	98	%	%	98	%	%	07/09/20	KCA	1

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 (preceeded 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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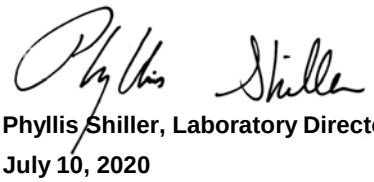

Phyllis Shiller, Laboratory Director

July 10, 2020

Reviewed and Released by: Greg Lawrence, Assistant Lab Director

PHOENIX

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

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

July 10, 2020

FOR: Attn: Nora Brew
Walden Environmental Engineering PLLC
16 Spring Street
Oyster Bay, NY 11771

Sample Information		Custody Information		Date	Time
Matrix:	AIR	Collected by:	EJ	07/07/20	16:16
Location Code:	WALDENE-IPARK	Received by:	SW	07/08/20	16:37
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:	0118.33+.40				
Canister Id:	28549				

Laboratory Data

SDG ID: GCG29877
Phoenix ID: CG29881

Project ID: IPARK0118.33
Client ID: AA-1 (CALL CENTER)

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution
Volatiles (TO15)									
1,1,1-Trichloroethane	ND	*0.200*	0.200	ND	*1.09*	1.09	07/09/20	KCA	1
1,1-Dichloroethene	ND	*0.050*	0.100	ND	*0.20*	0.40	07/09/20	KCA	1
1,2,4-Trichlorobenzene	ND	*0.250*	0.250	ND	*1.85*	1.85	07/09/20	KCA	1
1,2-Dichlorobenzene	ND	*0.150*	0.150	ND	*0.90*	0.90	07/09/20	KCA	1
1,3-Dichlorobenzene	ND	*0.150*	0.150	ND	*0.90*	0.90	07/09/20	KCA	1
1,4-Dichlorobenzene	ND	*0.150*	0.150	ND	*0.90*	0.90	07/09/20	KCA	1
Acetone	3.03	*1.00*	1.00	7.19	*2.37*	2.37	07/09/20	KCA	1
Benzene	ND	*0.050*	0.050	ND	*0.16*	0.16	07/09/20	KCA	1
Carbon Tetrachloride	0.081	*0.020*	0.020	0.51	*0.13*	0.13	07/09/20	KCA	1
Chlorobenzene	ND	*0.200*	0.200	ND	*0.92*	0.92	07/09/20	KCA	1
Cis-1,2-Dichloroethene	ND	*0.050*	0.200	ND	*0.20*	0.79	07/09/20	KCA	1
Dichlorodifluoromethane	0.495	*0.200*	0.200	2.45	*0.99*	0.99	07/09/20	KCA	1
Ethylbenzene	ND	*0.150*	0.150	ND	*0.65*	0.65	07/09/20	KCA	1
m,p-Xylene	ND	*0.150*	0.150	ND	*0.65*	0.65	07/09/20	KCA	1
Methylene Chloride	ND	*0.400*	0.400	ND	*1.39*	1.39	07/09/20	KCA	1
o-Xylene	ND	*0.150*	0.150	ND	*0.65*	0.65	07/09/20	KCA	1
Tetrachloroethene	ND	*0.100*	0.100	ND	*0.68*	0.68	07/09/20	KCA	1
Toluene	ND	*0.200*	0.200	ND	*0.75*	0.75	07/09/20	KCA	1
Trichloroethene	ND	*0.037*	0.037	ND	*0.20*	0.20	07/09/20	KCA	1
Trichlorofluoromethane	0.403	*0.150*	0.150	2.26	*0.84*	0.84	07/09/20	KCA	1
Trichlorotrifluoroethane	ND	*0.150*	0.150	ND	*1.15*	1.15	07/09/20	KCA	1
Vinyl Chloride	ND	*0.020*	0.020	ND	*0.05*	0.05	07/09/20	KCA	1
QA/QC Surrogates/Internals									
% Bromofluorobenzene	92	*%*	%	92	*%*	%	07/09/20	KCA	1
% IS-1,4-Difluorobenzene	92	*%*	%	92	*%*	%	07/09/20	KCA	1
% IS-Bromochloromethane	99	*%*	%	99	*%*	%	07/09/20	KCA	1

Project ID: IPARK0118.33 Phoenix I.D.: CG29881

Client ID: AA-1 (CALL CENTER)

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	
% IS-Chlorobenzene-d5	97	%	%	97	%	%	07/09/20	KCA	1

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 (preceeded 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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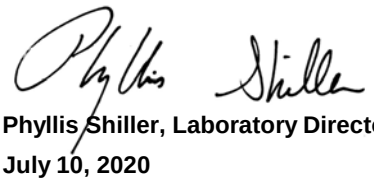

Phyllis Shiller, Laboratory Director

July 10, 2020

Reviewed and Released by: Greg Lawrence, Assistant Lab Director

PHOENIX

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

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

July 10, 2020

FOR: Attn: Nora Brew
Walden Environmental Engineering PLLC
16 Spring Street
Oyster Bay, NY 11771

Sample Information		Custody Information		Date	Time
Matrix:	AIR	Collected by:	EJ	07/07/20	15:45
Location Code:	WALDENE-IPARK	Received by:	SW	07/08/20	16:37
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:	0118.33+.40				
Canister Id:	19426				

Laboratory Data

SDG ID: GCG29877
Phoenix ID: CG29882

Project ID: IPARK0118.33
Client ID: IA-2 (CALL CENTER)

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution
Volatiles (TO15)									
1,1,1-Trichloroethane	ND	*0.200*	0.200	ND	*1.09*	1.09	07/09/20	KCA	1
1,1-Dichloroethene	ND	*0.050*	0.100	ND	*0.20*	0.40	07/09/20	KCA	1
1,2,4-Trichlorobenzene	ND	*0.250*	0.250	ND	*1.85*	1.85	07/09/20	KCA	1
1,2-Dichlorobenzene	ND	*0.150*	0.150	ND	*0.90*	0.90	07/09/20	KCA	1
1,3-Dichlorobenzene	ND	*0.150*	0.150	ND	*0.90*	0.90	07/09/20	KCA	1
1,4-Dichlorobenzene	ND	*0.150*	0.150	ND	*0.90*	0.90	07/09/20	KCA	1
Acetone	8.65	*1.00*	1.00	20.5	*2.37*	2.37	07/09/20	KCA	1
Benzene	ND	*0.050*	0.050	ND	*0.16*	0.16	07/09/20	KCA	1
Carbon Tetrachloride	0.083	*0.020*	0.020	0.52	*0.13*	0.13	07/09/20	KCA	1
Chlorobenzene	ND	*0.200*	0.200	ND	*0.92*	0.92	07/09/20	KCA	1
Cis-1,2-Dichloroethene	ND	*0.050*	0.200	ND	*0.20*	0.79	07/09/20	KCA	1
Dichlorodifluoromethane	0.988	*0.200*	0.200	4.88	*0.99*	0.99	07/09/20	KCA	1
Ethylbenzene	ND	*0.150*	0.150	ND	*0.65*	0.65	07/09/20	KCA	1
m,p-Xylene	0.230	*0.150*	0.150	1.00	*0.65*	0.65	07/09/20	KCA	1
Methylene Chloride	ND	*0.400*	0.400	ND	*1.39*	1.39	07/09/20	KCA	1
o-Xylene	ND	*0.150*	0.150	ND	*0.65*	0.65	07/09/20	KCA	1
Tetrachloroethene	0.180	*0.100*	0.100	1.22	*0.68*	0.68	07/09/20	KCA	1
Toluene	5.30	*0.200*	0.200	20.0	*0.75*	0.75	07/09/20	KCA	1
Trichloroethene	ND	*0.037*	0.037	ND	*0.20*	0.20	07/09/20	KCA	1
Trichlorofluoromethane	8.00	*0.150*	0.150	44.9	*0.84*	0.84	07/09/20	KCA	1
Trichlorotrifluoroethane	ND	*0.150*	0.150	ND	*1.15*	1.15	07/09/20	KCA	1
Vinyl Chloride	ND	*0.020*	0.020	ND	*0.05*	0.05	07/09/20	KCA	1
QA/QC Surrogates/Internals									
% Bromofluorobenzene	94	*%*	%	94	*%*	%	07/09/20	KCA	1
% IS-1,4-Difluorobenzene	91	*%*	%	91	*%*	%	07/09/20	KCA	1
% IS-Bromochloromethane	98	*%*	%	98	*%*	%	07/09/20	KCA	1

Ver 1

Project ID: IPARK0118.33 Phoenix I.D.: CG29882
Client ID: IA-2 (CALL CENTER)

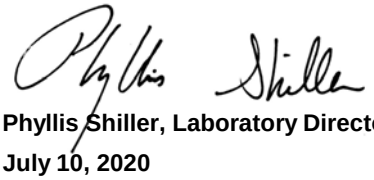
Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	
% IS-Chlorobenzene-d5	99	%	%	99	%	%	07/09/20	KCA	1

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 (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

The canister was received under no vacuum, therefore sample results may not be representative.

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

July 10, 2020

Reviewed and Released by: Greg Lawrence, Assistant Lab Director

PHOENIX

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

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Canister Sampling Information

July 10, 2020

FOR: Attn: Nora Brew
Walden Environmental Engineering PLLC
16 Spring Street
Oyster Bay, NY 11771

Location Code: WALDENE-IPARK

SDG I.D.: GCG29877

Project ID: IPARK0118.33

						Laboratory					Field			
Client Id	Lab Id	Canister Id	Canister Type	Reg. Id	Chk Out Date	Out Hg	In Hg	Out Flow	In Flow	Flow RPD	Start Hg	End Hg	Sampling Start Date	Sampling End Date
IA-DUP (CALL CENTE	CG29877	28581	6.0L	7036	06/29/20	-30	-6	10.8	11	1.8	-30	-6	07/07/20 08:45	07/07/20 16:18
IA-4 (CALL CENTER)	CG29878	23343	6.0L	5353	06/29/20	-30	-6	10.8	11.1	2.7	-30	-6	07/07/20 08:55	07/07/20 16:19
IA-5 (CALL CENTER)	CG29879	28562	6.0L	3504	06/29/20	-30	-4	10.8	11.2	3.6	-30	-6	07/07/20 08:56	07/07/20 16:21
IA-1 (CALL CENTER)	CG29880	28624	6.0L	5398	06/29/20	-30	-5	10.8	12.5	14.6	-30	-5	07/07/20 08:59	07/07/20 15:41
AA-1 (CALL CENTER)	CG29881	28549	6.0L	7023	06/29/20	-30	-7	10.8	11	1.8	-29	-5	07/07/20 09:07	07/07/20 16:16
IA-2 (CALL CENTER)	CG29882	19426	6.0L	6981	06/29/20	-30	0	10.8	12.1	11.4	-30	-1	07/07/20 08:45	07/07/20 15:45

Friday, July 10, 2020

Criteria: NY: AIRIA

State: NY

Sample Criteria Exceedances Report

GCG29877 - WALDENE-IPARK

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
CG29877	$AIR_WALDEN	Carbon Tetrachloride	NY / Air Guideline Values / Indor Air	0.076	0.020	0.032	0.032	ppbv
CG29877	$AIR_WALDEN	Carbon Tetrachloride	NY / Air Guideline Values / Indor Air	0.48	0.13	0.2	0.2	ug/m3
CG29878	$AIR_WALDEN	Carbon Tetrachloride	NY / Air Guideline Values / Indor Air	0.073	0.020	0.032	0.032	ppbv
CG29878	$AIR_WALDEN	Carbon Tetrachloride	NY / Air Guideline Values / Indor Air	0.46	0.13	0.2	0.2	ug/m3
CG29879	$AIR_WALDEN	Carbon Tetrachloride	NY / Air Guideline Values / Indor Air	0.081	0.020	0.032	0.032	ppbv
CG29879	$AIR_WALDEN	Carbon Tetrachloride	NY / Air Guideline Values / Indor Air	0.51	0.13	0.2	0.2	ug/m3
CG29880	$AIR_WALDEN	Carbon Tetrachloride	NY / Air Guideline Values / Indor Air	0.075	0.020	0.032	0.032	ppbv
CG29880	$AIR_WALDEN	Carbon Tetrachloride	NY / Air Guideline Values / Indor Air	0.47	0.13	0.2	0.2	ug/m3
CG29881	$AIR_WALDEN	Carbon Tetrachloride	NY / Air Guideline Values / Indor Air	0.081	0.020	0.032	0.032	ppbv
CG29881	$AIR_WALDEN	Carbon Tetrachloride	NY / Air Guideline Values / Indor Air	0.51	0.13	0.2	0.2	ug/m3
CG29882	$AIR_WALDEN	Carbon Tetrachloride	NY / Air Guideline Values / Indor Air	0.083	0.020	0.032	0.032	ppbv
CG29882	$AIR_WALDEN	Carbon Tetrachloride	NY / Air Guideline Values / Indor Air	0.52	0.13	0.2	0.2	ug/m3

CAN-CLEAN

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045

Individual Canister Certification

July 10, 2020

Sample Information

Matrix: AIR
Canister Id: 28581
Certification Date: 05/11/20 11:20 AM
Data File: H:\AIR2020\CHEM20\05MAY\10\0510_25.D\0510_25-20_AIR_0510.rr
Project ID: IPARK0118.33
Client ID: IA-DUP (CALL CENTER)

SDG ID: GCG29877
Phoenix ID: CG29877

Analyte	Result (ppbv)	Analyte	Result (ppbv)
1,1,1-Trichloroethane	<0.20	1,1-Dichloroethene	<0.10
1,2,4-Trichlorobenzene	<0.25	1,2-Dichlorobenzene	<0.15
1,3-Dichlorobenzene	<0.15	1,4-Dichlorobenzene	<0.15
Acetone	<1.0	Benzene	<0.050
Carbon Tetrachloride	<0.02	Chlorobenzene	<0.20
Cis-1,2-Dichloroethene	<0.20	Dichlorodifluoromethane	<0.20
Ethylbenzene	<0.15	m,p-Xylene	<0.15
Methylene Chloride	<0.40	o-Xylene	<0.15
Tetrachloroethene	<0.10	Toluene	<0.20
Trichloroethene	<0.037	Trichlorofluoromethane	<0.15
Trichlorotrifluoroethane	<0.15	Vinyl Chloride	<0.02

CAN-CLEAN

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045

Individual Canister Certification

July 10, 2020

Sample Information

Matrix: AIR
Canister Id: 23343
Certification Date: 06/24/20 9:59 PM
Data File: H:\AIR2020\CHEM20\06JUN\24\0624_17.D\0624_17-20_AIR_0615.rr
Project ID: IPARK0118.33
Client ID: IA-4 (CALL CENTER)

SDG ID: GCG29877
Phoenix ID: CG29878

Analyte	Result (ppbv)	Analyte	Result (ppbv)
1,1,1-Trichloroethane	<0.20	1,1-Dichloroethene	<0.10
1,2,4-Trichlorobenzene	<0.25	1,2-Dichlorobenzene	<0.15
1,3-Dichlorobenzene	<0.15	1,4-Dichlorobenzene	<0.15
Acetone	<1.0	Benzene	<0.050
Carbon Tetrachloride	<0.02	Chlorobenzene	<0.20
Cis-1,2-Dichloroethene	<0.20	Dichlorodifluoromethane	<0.20
Ethylbenzene	<0.15	m,p-Xylene	<0.15
Methylene Chloride	<0.40	o-Xylene	<0.15
Tetrachloroethene	<0.10	Toluene	<0.20
Trichloroethene	<0.037	Trichlorofluoromethane	<0.15
Trichlorotrifluoroethane	<0.15	Vinyl Chloride	<0.02

CAN-CLEAN

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045

Individual Canister Certification

July 10, 2020

Sample Information

Matrix: AIR
Canister Id: 28562
Certification Date: 05/18/20 5:14 PM
Data File: H:\AIR2020\CHEM20\05MAY\18\0518_08.D\0518_08-20_AIR_0510.rr
Project ID: IPARK0118.33
Client ID: IA-5 (CALL CENTER)

SDG ID: GCG29877
Phoenix ID: CG29879

Analyte	Result (ppbv)	Analyte	Result (ppbv)
1,1,1-Trichloroethane	<0.20	1,1-Dichloroethene	<0.10
1,2,4-Trichlorobenzene	<0.25	1,2-Dichlorobenzene	<0.15
1,3-Dichlorobenzene	<0.15	1,4-Dichlorobenzene	<0.15
Acetone	<1.0	Benzene	<0.050
Carbon Tetrachloride	<0.02	Chlorobenzene	<0.20
Cis-1,2-Dichloroethene	<0.20	Dichlorodifluoromethane	<0.20
Ethylbenzene	<0.15	m,p-Xylene	<0.15
Methylene Chloride	<0.40	o-Xylene	<0.15
Tetrachloroethene	<0.10	Toluene	<0.20
Trichloroethene	<0.037	Trichlorofluoromethane	<0.15
Trichlorotrifluoroethane	<0.15	Vinyl Chloride	<0.02

CAN-CLEAN

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045

Individual Canister Certification

July 10, 2020

Sample Information

Matrix: AIR
Canister Id: 28624
Certification Date: 06/24/20 11:16 PM
Data File: H:\AIR2020\CHEM20\06JUN\24\0624_19.D\0624_19-20_AIR_0615.rr
Project ID: IPARK0118.33
Client ID: IA-1 (CALL CENTER)

SDG ID: GCG29877
Phoenix ID: CG29880

Analyte	Result (ppbv)	Analyte	Result (ppbv)
1,1,1-Trichloroethane	<0.20	1,1-Dichloroethene	<0.10
1,2,4-Trichlorobenzene	<0.25	1,2-Dichlorobenzene	<0.15
1,3-Dichlorobenzene	<0.15	1,4-Dichlorobenzene	<0.15
Acetone	<1.0	Benzene	<0.050
Carbon Tetrachloride	<0.02	Chlorobenzene	<0.20
Cis-1,2-Dichloroethene	<0.20	Dichlorodifluoromethane	<0.20
Ethylbenzene	<0.15	m,p-Xylene	<0.15
Methylene Chloride	<0.40	o-Xylene	<0.15
Tetrachloroethene	<0.10	Toluene	<0.20
Trichloroethene	<0.037	Trichlorofluoromethane	<0.15
Trichlorotrifluoroethane	<0.15	Vinyl Chloride	<0.02

CAN-CLEAN

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045

Individual Canister Certification

July 10, 2020

Sample Information

Matrix: AIR
Canister Id: 28549
Certification Date: 06/24/20 4:08 PM
Data File: H:\AIR2020\CHEM20\06JUN\24\0624_08.D\0624_08-20_AIR_0615.rr
Project ID: IPARK0118.33
Client ID: AA-1 (CALL CENTER)

SDG ID: GCG29877
Phoenix ID: CG29881

Analyte	Result (ppbv)	Analyte	Result (ppbv)
1,1,1-Trichloroethane	<0.20	1,1-Dichloroethene	<0.10
1,2,4-Trichlorobenzene	<0.25	1,2-Dichlorobenzene	<0.15
1,3-Dichlorobenzene	<0.15	1,4-Dichlorobenzene	<0.15
Acetone	<1.0	Benzene	<0.050
Carbon Tetrachloride	<0.02	Chlorobenzene	<0.20
Cis-1,2-Dichloroethene	<0.20	Dichlorodifluoromethane	<0.20
Ethylbenzene	<0.15	m,p-Xylene	<0.15
Methylene Chloride	<0.40	o-Xylene	<0.15
Tetrachloroethene	<0.10	Toluene	<0.20
Trichloroethene	<0.037	Trichlorofluoromethane	<0.15
Trichlorotrifluoroethane	<0.15	Vinyl Chloride	<0.02

CAN-CLEAN

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045

Individual Canister Certification

July 10, 2020

Sample Information

Matrix: AIR
Canister Id: 19426
Certification Date: 06/24/20 2:50 PM
Data File: H:\AIR2020\CHEM20\06JUN\24\0624_06.D\0624_06-20_AIR_0615.rr
Project ID: IPARK0118.33
Client ID: IA-2 (CALL CENTER)

SDG ID: GCG29877
Phoenix ID: CG29882

Analyte	Result (ppbv)	Analyte	Result (ppbv)
1,1,1-Trichloroethane	<0.20	1,1-Dichloroethene	<0.10
1,2,4-Trichlorobenzene	<0.25	1,2-Dichlorobenzene	<0.15
1,3-Dichlorobenzene	<0.15	1,4-Dichlorobenzene	<0.15
Acetone	<1.0	Benzene	<0.050
Carbon Tetrachloride	<0.02	Chlorobenzene	<0.20
Cis-1,2-Dichloroethene	<0.20	Dichlorodifluoromethane	<0.20
Ethylbenzene	<0.15	m,p-Xylene	<0.15
Methylene Chloride	<0.40	o-Xylene	<0.15
Tetrachloroethene	<0.10	Toluene	<0.20
Trichloroethene	<0.037	Trichlorofluoromethane	<0.15
Trichlorotrifluoroethane	<0.15	Vinyl Chloride	<0.02

CHAIN OF CUSTODY RECORD
AIR ANALYSES

WCP 1.0

P.O. # : Park0118.331.40 Page 1 of 2

Phoenix Laboratories, Inc.
P.O. Box 370, Manchester, CT 06040
(860) 645-1102 • Fax: 860.645.0823
800-827-5426
email: greg@phoenixlabs.com

Data Delivery:
- ☐ Fax #:
- ☒ Email: nbrew@walden-assoc.com
- ☒ Phone #: 516-624-7200

Report to: m Wright
Customer: Walden
Address: 200 North Drive (Park)
Hopewell Junction, NY

Project Name: (Call center) Park0118.33 ; Park0118.40 (HES)
Invoice to: Nora Brew, PE
16 Spring St, Oyster Bay NY 11771
Sampled by: E Johnston Erica Johnston

Data Format: (Circle) Equis Excel Other: PDF
Requested Deliverable: RCP ASP CAT B
MCP NJ Deliverables
Quote Number:

Phoenix ID #	Client Sample ID	Canister ID #	Canister Size (L)	Outgoing Canister Pressure (" Hg)	Incoming Canister Pressure (" Hg)	Flow Regulator ID #	Flow Controller Setting (mL/min)	Sampling Start Time	Sampling End Time	Sample Start Date	Canister Pressure at Start (" Hg)	Canister Pressure at End (" Hg)	Ambient/Indoor Air	Soil Gas	Grab (G) Composite (C)	TO-15	APH
	THIS SECTION FOR LAB USE ONLY												MATRIX			ANALYSES	
29877	IA-Dup (Call center)	28581	6.0	-30	-6	7036	10.8	845	1618	7/7/20	-30	-6	X		G	X	
	IA-4 (HES)	495				6987		828	1612	7/7/20	-30	-5	X		G	X	
	IA-3 (HES)	23350				5389		827	1610	7/7/20	-30	-2	X		G	X	
		28610				6979											
29878	IA-4 (Call center)	23343			-6	5353		8:55	1619	7/7/20	-30	-6	X		G	X	
		475				5600											
		19886				6042											
29879	IA-5 (Call center)	28560			-4	3604		8:56	16:21	7/7/20	-30	-6	X		G	X	
	IA-2 (HES)	12864				5673		823	1608	7/7/20	-30	-5	X		G	X	
		28577				6984											

Relinquished by: Kerplunger — Date: 7-8-20 — Time: 11:05
Accepted by: — Date: 7-8-20 — Time: 16:37

I attest that all media released by Phoenix Environmental Laboratories, Inc. have been received in good working condition and agree to the terms and conditions as listed on the back of this document:
Signature: Date: 7/7/20

State Where Samples Collected: NY

Turnaround Time:
- ☐ 1 Day
- ☐ 2 Day
- ☒ 3 Day
- ☐ 4 Day
- ☐ 5 Day

Requested Criteria: (Please Circle)

CT:	MA:	NJ:	NY:	PA:	VT:
TAC I/C	Indoor Air: Residential	Indoor Air: Residential	Vapor Intrusion	Indoor Air: Residential	Indoor Air: Residential
TAC RES	Ind/Commercial	Ind/Commercial		Non-residential	Industrial
SVVC I/C	Soil Gas: Residential	Soil Gas: Residential			Sub-slab: Residential
SVVC RES	Ind/Commercial	Ind/Commercial			Industrial
GWV I/C					
GWV CES					

SPECIAL INSTRUCTIONS, QC REQUIREMENTS, REGULATORY INFORMATION:
TO-15 "special code/list" needed (10X6.0X341) IND-CERT
See Bob's/Greg. Modified TO-15 analytes per project QAPP provided

Please separate "Call" center + "HES" samples in 2 reports

PEL-115 Rev

9C929877

Kayla Tomkiel

From: Michael Lapman
Sent: Wednesday, July 8, 2020 7:11 PM
To: Kayla Tomkiel
Subject: Re: Walden air canisters

You're welcome, have a good night!

Regards,
Michael Lapman
Phoenix Environmental Laboratories, Inc.
587 East Middle Turnpike
Manchester, CT 06040
Direct Line: 917.449.0850
Laboratory: 860.812.0086
www.phoenixlabs.com

From: Kayla Tomkiel <KaylaT@phoenixlabs.com>
Date: Wednesday, July 8, 2020 at 7:10 PM
To: Michael Lapman <michael@phoenixlabs.com>
Subject: RE: Walden air canisters

Thank You!

From: Michael Lapman
Sent: Wednesday, July 8, 2020 7:10 PM
To: Kayla Tomkiel
Subject: Re: Walden air canisters

We are picking it up Friday.

Regards,
Michael Lapman
Phoenix Environmental Laboratories, Inc.
587 East Middle Turnpike
Manchester, CT 06040
Direct Line: 917.449.0850
Laboratory: 860.812.0086
www.phoenixlabs.com

PHOENIX
Environmental Laboratories, Inc.

9C9 29877

From: Kayla Tomkiel <KaylaT@phoenixlabs.com>
Date: Wednesday, July 8, 2020 at 7:09 PM
To: Michael Lapman <michael@phoenixlabs.com>
Subject: RE: Walden air canisters

We still will need the unused canister back as it was logged out with all of the other on the chains.

Should I schedule a pick up? Would just need to know the address and time

From: Michael Lapman
Sent: Wednesday, July 8, 2020 7:08 PM
To: Kayla Tomkiel
Subject: Re: Walden air canisters

That one was cancelled. Thank you!

Regards,
Michael Lapman
Phoenix Environmental Laboratories, Inc.
587 East Middle Turnpike
Manchester, CT 06040
Direct Line: 917.449.0850
Laboratory: 860.812.0086
www.phoenixlabs.com

PHOENIX
Environmental Laboratories, Inc.

From: Kayla Tomkiel <KaylaT@phoenixlabs.com>
Date: Wednesday, July 8, 2020 at 7:06 PM
To: Michael Lapman <michael@phoenixlabs.com>
Subject: Walden air canisters

Hi Michael,

Our courier picked up air canisters from Walden today, but it seems we are missing one.

GCG 29877

The can ID is 28570 REG # 7046 CLIENT ID: IA-3 (CALL CENTER)

Could you please let me know about this as soon as possible

Thanks!

Kayla Tomkiel
Phoenix Environmental Laboratories
587 East Middle Tpke.
Manchester, CT 06040
PH: 860-645-1102
FX: 860-645-0823

gcg 29877

Shannon Wilhelm

Subject: FW: Walden COC
Attachments: 20200708115817.pdf

From: Michael Lapman
Sent: Wednesday, July 08, 2020 1:04 PM
To: Shannon Wilhelm
Subject: FW: Walden COC

Please cancel line item IA3 (Call Center) on the second COC. They also noted they want separate reports for "Call Centers" and "HES".

3-Day Rush TAT, they have a special reporting list as well.

Thank you.

Regards,
Michael Lapman
Phoenix Environmental Laboratories, Inc.
587 East Middle Turnpike
Manchester, CT 06040
Direct Line: 917.449.0850
Laboratory: 860.812.0086
www.phoenixlabs.com

PHOENIX
Environmental Laboratories, Inc.

WCAP 1.0

PHOENIX Environmental Laboratories, Inc.

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

CHAIN OF CUSTODY RECORD
AIR ANALYSES

800-827-5426
email: greg@phoenixlabs.com

P.O. # iPark0118.33 + .46 Page 2 of 2

Data Delivery:
☐ Fax #:
☒ Email: nbrew@walden-associates.com
☒ Phone #: 516-624-7200

Report to: Kern. Wright
Customer: Walden
Address: 200 North Drive (iPark)
Hopewell Junction, NY

Project Name: (Callapso) iPark0118.33 r iPark0118.40 (HES)
Invoice to: Nora Brew, P.E.
16 Spring St, Oyster Bay NY 11771
Sampled by: EJ Erica Johnston

Data Format: (Circle) Equis Excel Other PDF
Requested Deliverable: RCP ASP CAT B
MCP NJ Deliverables
Quote Number:

Phoenix ID #	Client Sample ID	Canister ID #	Canister Size (L)	Outgoing Canister Pressure (" Hg)	Incoming Canister Pressure ("Hg)	Flow Regulator ID #	Flow Controller Setting (mL/min)	Sampling Start Time	Sampling End Time	Sample Start Date	Canister Pressure at Start (" Hg)	Canister Pressure at End ("Hg)	Ambient/Indoor Air	Soil Gas	Grab (G) Composite (C)	TO-15	APH
		THIS SECTION FOR LAB USE ONLY											MATRIX			ANALYSES	
	AA-1 (HES)	28571	6.0	-30		7011	10.8	8:38	15:37	7/1/20	-30	-3.5	X		G	X	
		12855				11979											
		23348				5659											
29880	IA-1 (Call Center)	28624			-5	5398		8:59	15:41	7/1/20	-30	-5	X		G	X	
		28589				5694											
29881	AA-1 (call center)	28549			-7	7023		9:07	16:10	7/1/20	-29	-5	X		G	X	
	IA-Dup (HES)	28583				3263		8:20	16:00	7/1/20	-30	-6	X		G	X	
29882	IA-2 (Call Center)	19426				6981		8:45	15:45	7/1/20	-30	-1	X		G	X	
*29883	IA-3 (call center)	28570				7046		8:53	16:21	7/1/20	-30	-6	X		G	X	
	IA-1 (HES)	23346				5986		8:20	15:10	7/1/20	-30	-5	X		G	X	

Relinquished by:	Accepted by:	Date:	Time:
		7-8-20	11:05
		7-8-20	16:37

I attest that all media released by Phoenix Environmental Laboratories, Inc. have been received in good working condition and agree to the terms and conditions as listed on the back of this document.

Signature: Date: 7/7/20

State Where Samples Collected: NY

Turnaround Time:
☐ 1 Day
☐ 2 Day
☒ 3 Day
☐ 4 Day
☐ 5 Day

Requested Criteria: (Please Circle)

CT:	MA:	NJ:	NY:	PA:	VT:
TAC I/C	Indoor Air: Residential	Indoor Air: Residential	Vapor Intrusion	Indoor Air Residential	Indoor Air Residential
TAC RES	Ind/Commercial	Ind/Commercial		Non-residential	Industrial
SVVC I/C	Soil Gas: Residential	Soil Gas: Residential			Sub-slab Residential
SVVC RES	Ind/Commercial	Ind/Commercial			Industrial
GWV I/C					
GWV CES					

SPECIAL INSTRUCTIONS, QC REQUIREMENTS, REGULATORY INFORMATION:
TO-15 "special code / list" needed. (10)(6.0) (EHR)
See Bobbi/Greg. Modified TO-15 analysis per project QAPP provided IND-CERT
Please separate "call center" + "HES" samples in 2 reports

* Missing Summa: emailed Michael/Lapmen

FORM TO-15 Rev. 9/2019

PHOENIX

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

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

July 14, 2020

FOR: Attn: Nora Brew
Walden Environmental Engineering PLLC
16 Spring Street
Oyster Bay, NY 11771

Sample Information		Custody Information		Date	Time
Matrix:	AIR	Collected by:	KK	07/09/20	13:15
Location Code:	WALDENE-IPARK	Received by:	B	07/10/20	16:05
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:					
Canister Id:	475				

Laboratory Data

SDG ID: GCG31864
Phoenix ID: CG31864

Project ID: IPARK 0118.33
Client ID: IA-3 (CALL CENTER)

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution
Volatiles (TO15)									
1,1,1-Trichloroethane	ND	*0.200*	0.200	ND	*1.09*	1.09	07/13/20	KCA	1
1,1-Dichloroethene	ND	*0.100*	0.100	ND	*0.40*	0.40	07/13/20	KCA	1
1,2,4-Trichlorobenzene	ND	*0.250*	0.250	ND	*1.85*	1.85	07/13/20	KCA	1
1,2-Dichlorobenzene	ND	*0.150*	0.150	ND	*0.90*	0.90	07/13/20	KCA	1
1,3-Dichlorobenzene	ND	*0.150*	0.150	ND	*0.90*	0.90	07/13/20	KCA	1
1,4-Dichlorobenzene	ND	*0.150*	0.150	ND	*0.90*	0.90	07/13/20	KCA	1
Acetone	16.0	*1.00*	1.00	38.0	*2.37*	2.37	07/13/20	KCA	1
Benzene	ND	*0.050*	0.050	ND	*0.16*	0.16	07/13/20	KCA	1
Carbon Tetrachloride	0.081	*0.020*	0.020	0.51	*0.13*	0.13	07/13/20	KCA	1
Chlorobenzene	ND	*0.200*	0.200	ND	*0.92*	0.92	07/13/20	KCA	1
Cis-1,2-Dichloroethene	ND	*0.200*	0.200	ND	*0.79*	0.79	07/13/20	KCA	1
Dichlorodifluoromethane	0.884	*0.200*	0.200	4.37	*0.99*	0.99	07/13/20	KCA	1
Ethylbenzene	ND	*0.150*	0.150	ND	*0.65*	0.65	07/13/20	KCA	1
m,p-Xylene	0.558	*0.150*	0.150	2.42	*0.65*	0.65	07/13/20	KCA	1
Methylene Chloride	ND	*0.400*	0.400	ND	*1.39*	1.39	07/13/20	KCA	1
o-Xylene	0.196	*0.150*	0.150	0.85	*0.65*	0.65	07/13/20	KCA	1
Tetrachloroethene	0.331	*0.100*	0.100	2.24	*0.68*	0.68	07/13/20	KCA	1
Toluene	4.77	*0.200*	0.200	18.0	*0.75*	0.75	07/13/20	KCA	1
Trichloroethene	0.059	*0.037*	0.037	0.32	*0.20*	0.20	07/13/20	KCA	1
Trichlorofluoromethane	8.99	*0.150*	0.150	50.5	*0.84*	0.84	07/13/20	KCA	1
Trichlorotrifluoroethane	ND	*0.150*	0.150	ND	*1.15*	1.15	07/13/20	KCA	1
Vinyl Chloride	ND	*0.020*	0.020	ND	*0.05*	0.05	07/13/20	KCA	1
QA/QC Surrogates/Internals									
% Bromofluorobenzene	99	*%*	%	99	*%*	%	07/13/20	KCA	1
% IS-1,4-Difluorobenzene	103	*%*	%	103	*%*	%	07/13/20	KCA	1
% IS-Bromochloromethane	100	*%*	%	100	*%*	%	07/13/20	KCA	1

Project ID: IPARK 0118.33
Client ID: IA-3 (CALL CENTER)

Phoenix I.D.: CG31864

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	
% IS-Chlorobenzene-d5	107	%	%	107	%	%	07/13/20	KCA	1

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 (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

The canister was received under no vacuum, therefore sample results may not be representative.

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
July 14, 2020
Official Report Release To Follow

Sample Criteria Exceedances Report

GCG31864 - WALDENE-IPARK

Criteria: None

State: NY

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units

*** No Data to Display ***

PHOENIX Environmental Laboratories, Inc.

CHAIN OF CUSTODY RECORD AIR ANALYSES

587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040
Email: info@phoenixlabs.com Fax (860) 645-0823
Client Services (860) 645-1102

Pg ___ of ___

Data Delivery:
☐ Fax #:
☑ Email: nbrew@waldon-associates.com

Report to:	Nora Brew	Invoice to:	Carl Monheit	Project Name:	Park0118.33
Address:	116 Spring St Oyster Bay, NY 11771	Address:	485 West Putnam Ave Greenwich, CT 06830	Location:	Park
Project Mgr:	Nora Brew	P.O. #		State:	NY
Phone #	516-624-7200	Quote #	Park0118.33	Sampled by:	KAW Kellwagen

Phoenix ID #	Client Sample ID	Canister ID #	Canister Size (L)	Outgoing Canister Pressure ("Hg)	Incoming Canister Pressure ("Hg)	Flow Regulator ID #	Flow Controller Setting (mL/min)	Sampling Start Time	Sampling End Time	Sample Start Date	Canister Pressure at Start ("Hg)	Canister Pressure at End ("Hg)	Ambient/Indoor Air	Soil Gas	Grab (G) Composite (C)	TO-14	TO-15				Is Canister Returned Unused? Y/N
		LAB USE ONLY											MATRIX			ANALYSES					
31864	IA-3 (Call Centro)	475	6.0	-30		5600	10.8	7:48	13:15	7/9/20	-26	-3	X		G	X					
		28570	↓	↓	0	7046	↓														

Relinquished by:	Accepted by:	Date:	Time:
		7/9/20	11:25
		7/10/20	1600

Criteria Requested: ASP CAT B
Deliverable: RCP ☐ MCP ☐
State where samples collected: NY

Data Format: Excel ☑ Equis ☐ PDF ☑ Other: ☐ GISKey ☐

SPECIAL INSTRUCTIONS, QC REQUIREMENTS, REGULATORY INFORMATION:
TO15 special code/list needed
See Bobbi/Greg. Modified TO-15
analysis provided QAPP per project

(10)(6.0)(8H1)
IND-CERT

I attest that all media released by Phoenix Environmental Laboratories, Inc. have been received in good working condition and agree to the terms and conditions as listed on the back of this document:

Signature: _____ Date: _____

gcg 31864

Shannon Wilhelm

To: Michael Lapman
Subject: RE: Walden

From: Michael Lapman
Sent: Friday, July 10, 2020 2:43 PM
To: Shannon Wilhelm
Subject: FW: Walden

3-Day TAT please.

Thank you and have a nice weekend!!

Regards,
Michael Lapman
Phoenix Environmental Laboratories, Inc.
587 East Middle Turnpike
Manchester, CT 06040
Direct Line: 917.449.0850
Laboratory: 860.812.0086
www.phoenixlabs.com

PHOENIX
Environmental Laboratories, Inc