

**ANNUAL INSPECTION / PERIODIC REVIEW REPORT
PUBLIC SCHOOL 710K
168 8TH STREET
BROOKLYN, NEW YORK 11215
Site No.: C224266**

PREPARED FOR:



**Department of
Education**

Chancellor David C. Banks

New York City Department of Education
Office of Environmental Health and Safety
44-36 Vernon Blvd.
Long Island City, New York 11101

PREPARED BY:



ENVIRONMENTAL • GEOTECHNICAL
BUILDING SCIENCES • MATERIALS TESTING

ATC Group Services, LLC
104 East 25th Street, 8th Floor
New York, New York 10010-2917

Date of Issue: January 31, 2025
Revised: March 24, 2025

ATC Project No. Z214SS0218

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PROJECT DIRECTORY

CLIENT: New York City Department of Education
Office of Environmental Health and Safety
44-36 Vernon Blvd.
Long Island City, New York 11101

PROJECT LOCATION: Public School 710K
168 8th Street
Brooklyn, New York 11215

PROJECT TECHNICAL SUPPORT New York City School Construction Authority
30-30 Thomson Avenue
Long Island City, New York 11101

TRC Engineers, Inc.
1430 Broadway
New York, NY 10018

DESCRIPTION OF WORK: Review O&M plan and prior reports; review
custodian's logbook, walk-through visual inspection

ATC REPRESENTATIVES: Gilbert Gedeon, P.E.

EXECUTIVE SUMMARY

ATC Group Services LLC (ATC) conducted the annual site inspection of the Engineering Controls as they relate to the Vapor Barrier and the Sub-Slab Depressurization System (SSDS) at Public School 710K located at 168 8th Street in Brooklyn, NY on January 8, 2025.

During the inspection, ATC noted that the custodian's Monthly or Severe Condition Inspection Forms were prepared for the months of October 2023 through December 2024. The Routine and Preventative Maintenance Checklists were completed for the months of April and October 2024. ATC observed that the Building Management System (BMS) and Alarm Indication Station (AIS) were functional and connected to the SSDS units. Both SSDS units were operational. A spare fan was located in Room 306. No significant cracks were observed in the foundation floors and walls. All monitoring points were checked and found to be clear of obstruction and intact.

Based on the aforementioned, ATC concludes that the Engineering Controls have not changed and appear to be effective, and no changes have occurred that would reduce the ability of the controls to protect public health and the environment. Accordingly, ATC advise the custodial staff to continue conducting monthly and semiannual inspections and document the findings in the Monthly or Severe Condition Inspection Forms and the Routine and Preventative Maintenance Checklists, respectively.

1.0 INTRODUCTION

ATC is pleased to provide this Annual Inspection Report for the certification period of August 7, 2023 through December 30, 2024 to the New York City Department of Education Office of Environmental Health and Safety (NYC DOE/EHS) as it relates to Public School 710K, located at 168 8th Street in Brooklyn, NY. This work was completed as per the request of NYC DOE.

The scope of work for this service included:

1. Review of the school custodian's inspection logs indicating his routine walk-throughs to identify any observed changes to the interior surfaces and roof-mounted fan units;
2. Roof-mounted SSDS vent stack inspection;
3. Cellar floor inspection and exterior inspection for concrete cracks;
4. Verification of the condition of monitoring points;
5. Review of prior reports; and
6. Photographic documentation of observations.

This report was developed to document: (a) the changes to the engineering controls if any, and (b) whether the program for maintenance and monitoring is being followed and is effective. Mr. Gilbert Gedeon, Professional Engineer (PE), of ATC, conducted the annual site inspection on January 8, 2025. ATC was accompanied by Mr. Don LaMastra, the school's Custodian. Denise Cosenza with ATC conducted a follow-up inspection of the exterior cover system on January 28, 2025.

2.0 ENGINEERING CONTROLS

According to the Operation and Maintenance (O&M) Plan prepared by TRC Engineers, Inc. (TRC) dated July 2023, Public School 710K contains engineering controls that include a Vapor Barrier and an SSDS constructed to prevent contaminants in the soil vapor beneath the school building from entering the building. A program for maintenance and monitoring was developed to ensure that the engineering controls implemented during the school's operation are properly maintained.

2.1 Fluid Applied Gas Vapor Barrier

The fluid applied GVB was installed beneath the building floor slab, on subgrade walls, and around pits of the school building as a precautionary measure to prevent soil vapor from entering the school building in the future.

2.2 Sub-Slab Depressurization System

An SSDS was also installed in the school as an added safeguard to prevent soil gas vapors from entering in the future. The primary components of the SSDS include the following:

- Two (2) sub-slab pits (P-1 and P-2) located beneath the slab of the school building;
- Two (2) SSDS vertical risers (VR-1 and VR-2) connecting the SSDS pits to two (2) roof top fans;
- Additionally, one (1) spare fan in manufacturer's original packaging will be kept on-site;
- Two (2) pressure switches installed in SSDS piping that will signal an alarm to Alarm Indication Stations if a low vacuum condition occurs; and
- Four (4) monitoring points (MP-1, MP-2, MP-3, and MP-4) located in the lowest level slab of the school building.

3.0 SITE INSPECTIONS AND SSDS REPAIRS

3.1 Review of Custodian's Inspection Logs

The following was reviewed with Mr. LaMastra:

1. The custodian's Monthly or Severe Condition Inspection Forms were prepared for the months of August 2023 through December 2024.
2. The Routine and Preventative Maintenance Checklists were completed for the months of April and October 2024.
3. As part of the annual inspection, ATC provided annual refresher training and advised the custodial staff to continue to conduct the inspection on a monthly and semi-annual basis and document the observations in the Monthly or Severe Condition Inspection Forms, as well as the Routine and Preventative Maintenance Checklists, respectively.

The Monthly or Severe Condition Inspection Forms are included in Attachment 2. The Routine and Preventative Maintenance Checklists are included in Attachment 3. The Training Acknowledgement Letter is included in Attachments 4.

3.2 ATC's Visual Observations

ATC conducted visual observations and photographic documentation while accompanied by Mr. LaMastra. Site photographs are included Attachment 5, the Annual Inspection Form is included in Attachment 6. The Annual Monitoring Point Inspection Checklist is included in Attachment 7.

During the walkthrough inspection, ATC noted the following:

- The BMS and AIS are functional and connected to the SSDS;
- Both SSDS fan units are operational; and
- A spare fan is located in Room 306.

3.2.1 *Roof SSDS Blower Inspection*

1. Both SSDS fan units are operational;
2. Rust was not observed in the vicinity of the posts and sleeves of the SSDS vent stacks;
2. SSDS fan stack guy wires are in good condition;
3. SSDS fan mounting and vibration isolators are intact;
4. Motor housings are intact and exterior surfaces are clean; and
5. Bolts and set screws are tight.

3.2.2 Cellar Floor Inspection

ATC inspected the accessible areas of the cellar and ground floor and walls and did not observe any significant cracks.

ATC also checked all the monitoring points associated with the SSDS system to verify the condition and found them to be intact and clear of obstructions.

ATC's observation of the cellar concrete floor was limited due to architectural finishes such as ceramic floor tiles, vinyl floor tiles and wood flooring. ATC's observation of the cellar floor was also limited by shelving, cabinets, equipment and furniture.

3.2.3 Exterior Inspection

On January 31, 2025 ATC inspected the perimeter of the property including paved and unpaved areas. This included paved walkways along the exterior of the property building, as well as a synthetic turf playground on the southern portion of the property along 9th Street. There was no evidence of pavement removal or penetrations. No structures have been constructed through the paved areas. There were no signs of soil washing or erosion.

4.0 POST-MITIGATION INDOOR AIR QUALITY SURVEY

ATC reviewed the Post-Mitigation Indoor Air Quality (IAQ) Survey letter report prepared by TRC and dated March 5, 2024. The IAQ sampling event was performed in accordance with the NYSDEC-approved Site Management Plan (SMP) dated August 16, 2023 for Public School 710K. The SMP requires that indoor air sampling be conducted within one year of the SSDS startup. In addition, this sampling must be conducted during the heating season. The sampling activities were conducted on February 8 and February 9, 2024.

During the pre-sampling building inspection a parts per billion (ppb) range photoionization detector (PID) was utilized as a screening tool within the building for the presence of organic vapors. No PID readings were detected above 0 ppb throughout the basement or the first floor. Three indoor air samples and one ambient air sample were collected over an 8-hour time period. These samples were analyzed for volatile organic compounds (vocs) utilizing United States Environmental Protection Agency (USEPA) Method TO-15. Analytical results for the indoor/ambient air samples were compared to the New York State Department of Health (NYSDOH) Air Guidance Values (AGVs) presented in the NYSDOH Vapor Intrusion Guidance Document, NYSDOH's Tetrachloroethene (Perc) in Indoor and Outdoor Air September 2013 Fact Sheet ("NYSDOH Perc Fact Sheet"), and NYSDOH's Trichloroethene (TCE) in Indoor and Outdoor Air August 2015 Fact Sheet ("NYSDOH TCE Fact Sheet"). No VOCs were detected in the indoor air samples or the ambient air sample above the corresponding NYSDOH AGVs.

The Post-Mitigation IAQ Letter is included in Attachments 8.

5.0 CONCLUSIONS AND RECOMMENDATIONS

Based on visual observations, ATC concludes the following:

1. The BMS and AIS are functional and connected to the SSDS;
2. SSDS-1 and SSDS-2 are operating as normal;
3. All monitoring points are clear of obstructions and intact;
4. A spare fan unit is located in Room 306;
5. No significant cracks were observed;
6. Monthly and semiannual inspections were conducted and documented;
7. Engineering controls have not changed and appear to be effective; and
8. No changes have occurred that would reduce the ability of the controls to protect public health and the environment.

Based on document review and visual observations, ATC recommends the following:

1. Continue conducting monthly and semiannual inspections and document the findings in the Monthly or Severe Condition Inspection Forms and the Routine and Preventative Maintenance Checklists, respectively.

6.0 STANDARDS OF CARE

ATC's work was performed in a professional manner with the best interest of our client in mind. Our objective was to perform our work with care, exercising the customary skills and competence of consulting professionals in the relevant disciplines. The conclusions presented in this report are professional opinions based upon visual observations and site documents review. The conclusions expressed in this report reflect only the limited inspections of specific locations. The opinions and recommendations presented herein apply to site conditions existing at the time of our observations. ATC cannot act as insurers, and no expressed or implied representation or warrant is included or intended in our report except that our work was performed, within the limits prescribed by our clients, with the customary thoroughness and competence of our profession at the time and place the services were rendered.

It is our pleasure to provide our consultative services to the NYCDOE. If you have any questions about this report, please call (212) 353-8280.

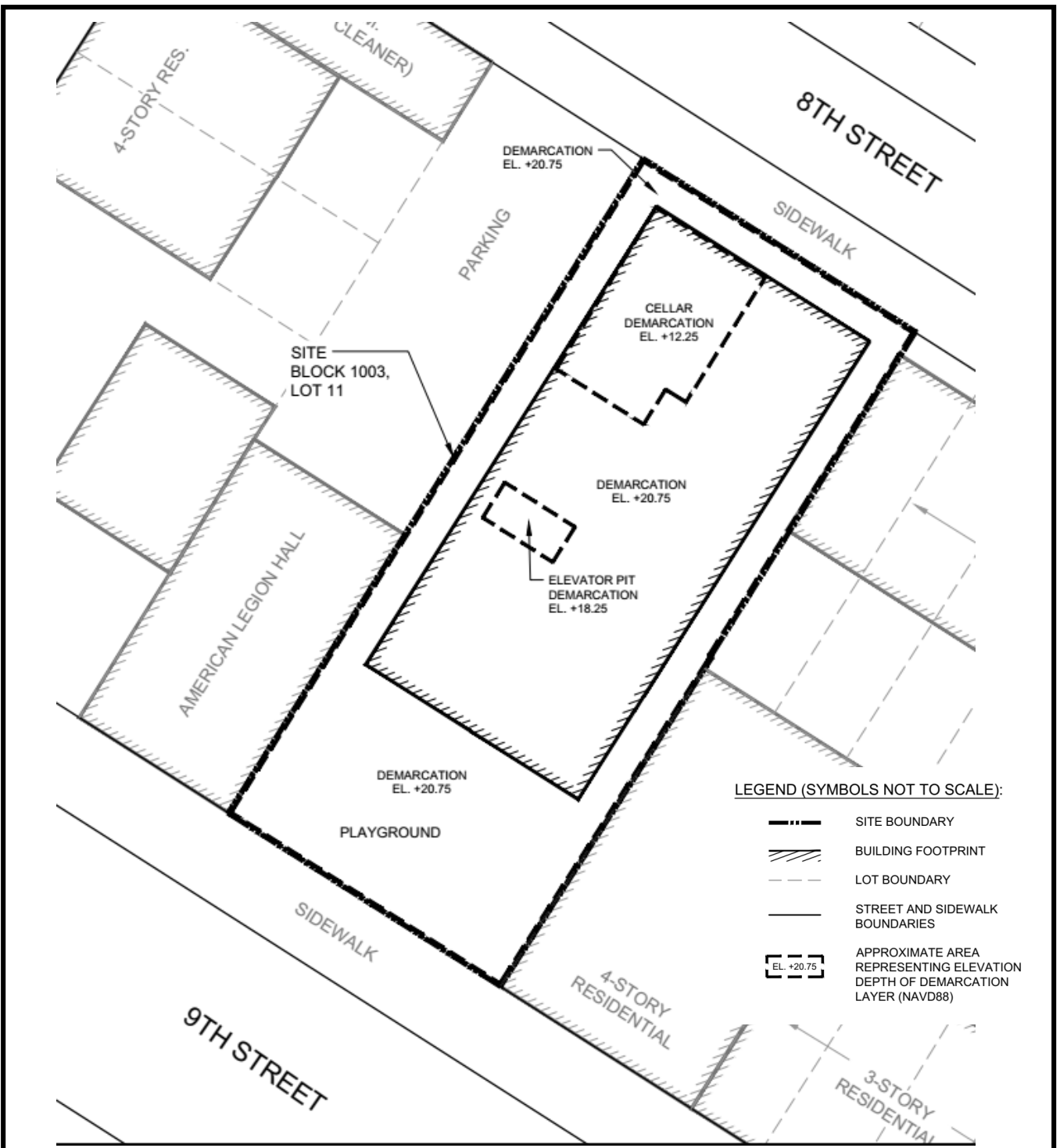
Sincerely,
ATC GROUP SERVICES, LLC



Gilbert Gedeon, P.E.
Principal Engineer

cc: D. Balota
D. Cosenza

FIGURES



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104 East 25th Street, 8th Floor
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Phone (212) 353-8280 * Fax (212) 979-8447

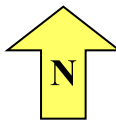
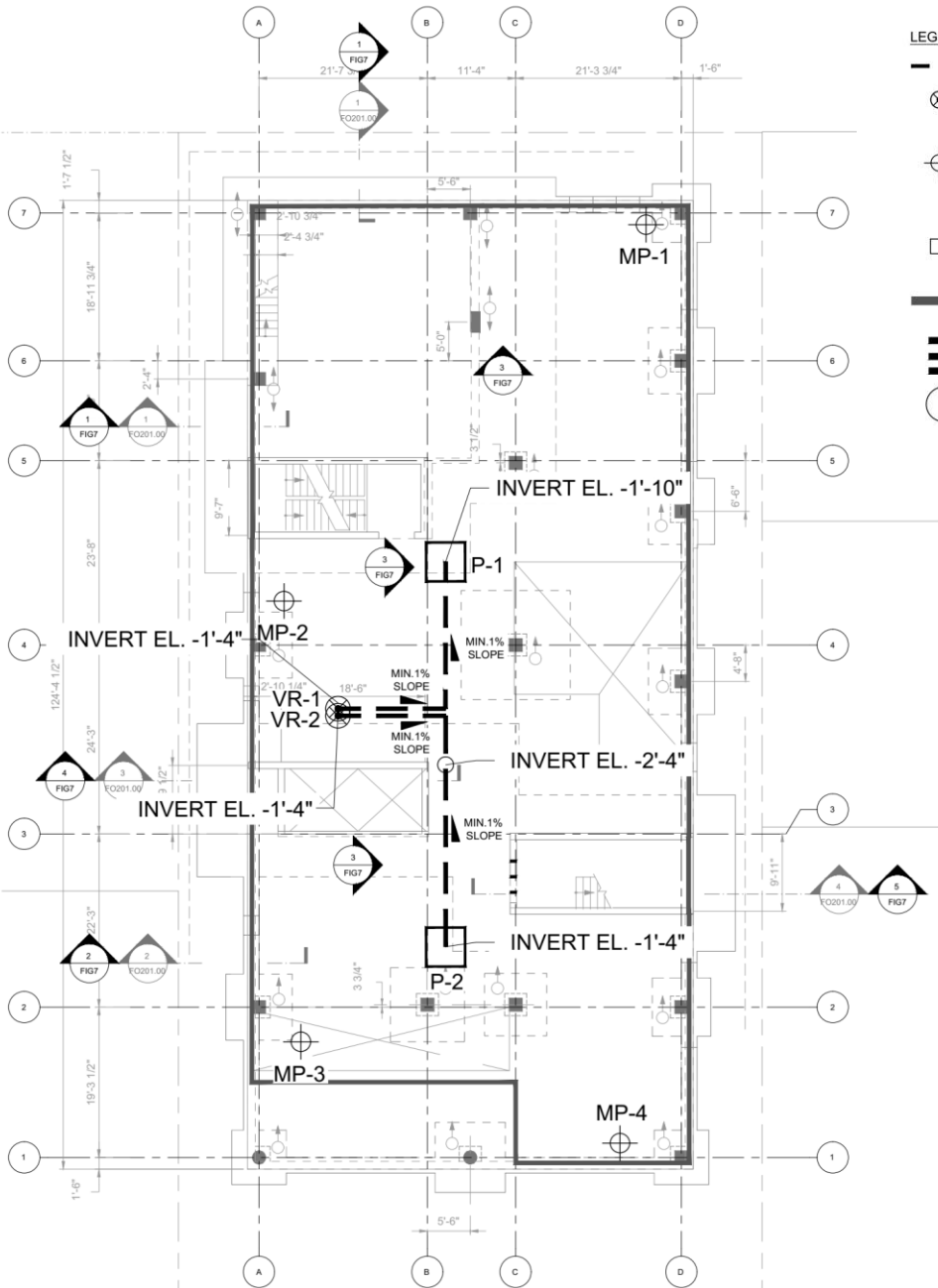


FIGURE 1 – SITE LAYOUT MAP

SITE: Public School 710K
168 8th Street
Brooklyn, New York 11215

BCP Site No. C224266

Source – Site Management Plan, NYSDEC Site No.: C224266 prepared by TRC Engineers, Inc. and dated July 2023



- LEGEND (SYMBOLS NOT TO SCALE):**
- 6"Ø C.I. PIPE BENEATH FLOOR SLAB
 - 6"Ø VERTICAL RISER AND IDENTIFICATION NUMBER (REFER TO DETAIL E ON FIGURE 4)
 - SUB-SLAB MONITORING POINT AND IDENTIFICATION NUMBER (REFER TO DETAIL C ON FIGURE 4). MONITORING POINTS SYMBOLS ARE NOT SHOWN TO SCALE ON 1/FIGURE 1.
 - SUB-SLAB DEPRESSURIZATION SYSTEM PIT AND IDENTIFICATION NUMBER (REFER TO DETAIL A ON FIGURE 4)
 - HORIZONTAL EXTENT OF GAS VAPOR BARRIER AND MINIMUM 12-INCH THICK GAS PERMEABLE AGGREGATE LAYER
 - THREE (3) 4" DIAMETER PIPE SLEEVES SPACED 2" ON CENTER THROUGH SUBGRADE WALL.
 - SSDS CONDENSATE DRAIN (REFER TO DETAIL G ON FIGURE 4).



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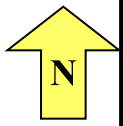


FIGURE 2 – ENGINEERING CONTROL MAP

SITE: Public School 710K
168 8th Street
Brooklyn, New York 11215

BCP Site No. C224266

Source – Site Management Plan, NYSDEC Site No.: C224266 prepared by TRC Engineers, Inc. and dated July 2023

Attachment 1
NYSDEC Reminder Notice and Certification Form

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Division of Environmental Remediation

625 Broadway, 11th Floor, Albany, NY 12233-7020

P: (518)402-9543 | F: (518)402-9547

www.dec.ny.gov

11/5/2024

Hasan Siddiqui
Department of Education
44-36 Vernon Blvd
Long Island City, NY 11101
hsiddiqui2@schools.nyc.gov

Re: Reminder Notice: Site Management Periodic Review Report and IC/EC Certification Submittal

Site Name: 168 8th Street

Site No.: C224266

Site Address: 168 8TH STREET
Brooklyn, NY 11215

Dear Hasan Siddiqui:

This letter serves as a reminder that sites in active Site Management (SM) require the submittal of a periodic progress report. This report, referred to as the Periodic Review Report (PRR), must document the implementation of, and compliance with, site-specific SM requirements. Section 6.3(b) of DER-10 *Technical Guidance for Site Investigation and Remediation* (available online at <http://www.dec.ny.gov/regulations/67386.html>) provides guidance regarding the information that must be included in the PRR. Further, if the site is comprised of multiple parcels, then you as the Certifying Party must arrange to submit one PRR for all parcels that comprise the site. The PRR must be received by the Department no later than **January 29, 2025**. Guidance on the content of a PRR is enclosed.

Site Management is defined in regulation (6 NYCRR 375-1.2(at)) and in Chapter 6 of DER-10. Depending on when the remedial program for your site was completed, SM may be governed by multiple documents (e.g., Operation, Maintenance, and Monitoring Plan; Soil Management Plan) or one comprehensive Site Management Plan.

A Site Management Plan (SMP) may contain one or all of the following elements, as applicable to the site: a plan to maintain institutional controls and/or engineering controls (“IC/EC Plan”); a plan for monitoring the performance and effectiveness of the selected remedy (“Monitoring Plan”); and/or a plan for the operation and maintenance of the selected remedy (“O&M Plan”). Additionally, the technical requirements for SM are stated in the decision document (e.g., Record of Decision) and, in some cases, the legal agreement directing the remediation of the site (e.g., order on consent, voluntary agreement, etc.).

When you submit the PRR (by the due date above), include the enclosed forms documenting that all SM requirements are being met. The Institutional Controls (ICs) portion of the form (Box 6) must be signed by you or your designated representative. The Engineering Controls (ECs) portion of the form (Box 7) must be signed by a Professional Engineer (PE). If you cannot certify that all SM requirements are being met, you must submit a Corrective Measures Work Plan that identifies the actions to be taken to restore compliance. The work plan must include a schedule to be approved by the Department. The Periodic Review process will not be considered complete until all necessary corrective measures are completed and all required controls are certified. Instructions for completing the certifications are enclosed.



All site-related documents and data, including the PRR, must be submitted in electronic format to the Department of Environmental Conservation. The required format for documents is an Adobe PDF file with optical character recognition and no password protection. Data must be submitted as an electronic data deliverable (EDD) according to the instructions on the following webpage:

<https://www.dec.ny.gov/chemical/62440.html>

Documents may be submitted to the project manager either through electronic mail or by using the Department's file transfer service at the following webpage:

<https://fts.dec.state.ny.us/fts/>

The Department will not approve the PRR unless all documents and data generated in support of the PRR have been submitted using the required formats and protocols.

You may contact Wendi Zheng, the Project Manager, at 718-482-7541 or wendi.zheng@dec.ny.gov with any questions or concerns about the site. Please notify the project manager before conducting inspections or field work. You may also write to the project manager at the following address:

New York State Department of Environmental Conservation
One Hunters Point Plaza
47-40 21st Street
Long Island City, NY 11101

Enclosures

PRR General Guidance
Certification Form Instructions
Certification Forms

ec: w/ enclosures

Nyc School Construction Authority - condrusek@nycsca.org

Department of education - Saritha Thumma - sthumma@schools.nyc.gov

ec: w/ enclosures

Wendi Zheng, Project Manager
Andre Obligado, Chief, Region 2 - Remediation Section C
Jane O'Connell, Hazardous Waste Remediation Supervisor, Region 2
Atlas Technical Consultants LLC - Gilbert Gedeon - Gilbert.gedeon@oneatlas.com
Atlas Technical Consultants LLC - Denise Cosenza - Denise.cosenza@oneatlas.com

Enclosure 1

Certification Instructions

I. Verification of Site Details (Box 1 and Box 2):

Answer the three questions in the Verification of Site Details Section. The Owner and/or Qualified Environmental Professional (QEP) may include handwritten changes and/or other supporting documentation, as necessary.

II. Certification of Institutional Controls/ Engineering Controls (IC/ECs)(Boxes 3, 4, and 5)

1.1.1. Review the listed IC/ECs, confirming that all existing controls are listed, and that all existing controls are still applicable. If there is a control that is no longer applicable the Owner / Remedial Party should petition the Department separately to request approval to remove the control.

2. In Box 5, complete certifications for all Plan components, as applicable, by checking the corresponding checkbox.

3. If you cannot certify "YES" for each Control listed in Box 3 & Box 4, sign and date the form in Box 5. Attach supporting documentation that explains why the **Certification** cannot be rendered, as well as a plan of proposed corrective measures, and an associated schedule for completing the corrective measures. Note that this **Certification** form must be submitted even if an IC or EC cannot be certified; however, the certification process will not be considered complete until corrective action is completed.

If the Department concurs with the explanation, the proposed corrective measures, and the proposed schedule, a letter authorizing the implementation of those corrective measures will be issued by the Department's Project Manager. Once the corrective measures are complete, a new Periodic Review Report (with IC/EC Certification) must be submitted within 45 days to the Department. If the Department has any questions or concerns regarding the PRR and/or completion of the IC/EC Certification, the Project Manager will contact you.

III. IC/EC Certification by Signature (Box 6 and Box 7):

If you certified "YES" for each Control, please complete and sign the IC/EC Certifications page as follows:

- For the Institutional Controls on the use of the property, the certification statement in Box 6 shall be completed and may be made by the property owner or designated representative.
- For the Engineering Controls, the certification statement in Box 7 must be completed by a Professional Engineer or Qualified Environmental Professional, as noted on the form.



Enclosure 2
NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
Site Management Periodic Review Report Notice
Institutional and Engineering Controls Certification Form



	Site Details	Box 1	
Site No.	C224266		
Site Name 168 8th Street			
Site Address: 168 8TH STREET Zip Code: 11215			
City/Town: Brooklyn			
County: Kings			
Site Acreage: 0.310			
Reporting Period: August 07, 2023 to December 30, 2024			
		YES	NO
1.	Is the information above correct?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
If NO, include handwritten above or on a separate sheet.			
2.	Has some or all of the site property been sold, subdivided, merged, or undergone a tax map amendment during this Reporting Period?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
3.	Has there been any change of use at the site during this Reporting Period (see 6NYCRR 375-1.11(d))?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
4.	Have any federal, state, and/or local permits (e.g., building, discharge) been issued for or at the property during this Reporting Period?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
If you answered YES to questions 2 thru 4, include documentation or evidence that documentation has been previously submitted with this certification form.			
5.	Is the site currently undergoing development?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
		Box 2	
		YES	NO
6.	Is the current site use consistent with the use(s) listed below? Restricted-Residential, Commercial, and Industrial	<input checked="" type="checkbox"/>	<input type="checkbox"/>
7.	Are all ICs in place and functioning as designed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
IF THE ANSWER TO EITHER QUESTION 6 OR 7 IS NO, sign and date below and DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue.			
A Corrective Measures Work Plan must be submitted along with this form to address these issues.			
_____ Signature of Owner, Remedial Party or Designated Representative		_____ Date	

Description of Institutional Controls

Parcel

Owner

Institutional Control

1003-11

NYC School Construction Authority

Ground Water Use Restriction
 Soil Management Plan
 Landuse Restriction
 Site Management Plan
 O&M Plan
 IC/EC Plan

Monitoring Plan

Imposition of an institutional control in the form of environmental easement for the controlled property which will:

- require the remedial party or site owner to complete and submit to the Department a periodic certification of institutional and engineering controls in accordance with Part 375-1.8 (h)(3);
- allow the use and development of the controlled property for restricted-residential use as defined by Part 375-1.8(g), although land use is subject to local zoning laws;
- restrict the use of groundwater as a source of potable or process water, without necessary water quality treatment as determined by the NYSDOH or NYCDOH; and
- require compliance with the Department approved Site Management Plan.

Description of Engineering Controls

Parcel

Engineering Control

1003-11

Vapor Mitigation
 Cover System

A site cover will be required to allow for restricted-residential use of the site in areas where the upper two feet of exposed surface soil will exceed the restricted-residential soil cleanup objectives (SCOs). Where a soil cover is to be used it will be a minimum of two feet of soil placed over a demarcation layer, with the upper six inches of soil of sufficient quality to maintain a vegetative layer. Soil cover material, including any fill material brought to the site, will meet the SCOs for cover material for the use of the site as set forth in 6 NYCRR Part 375-6.7(d). Substitution of other materials and components may be allowed where such components already exist or are a component of the tangible property to be placed as part of site redevelopment. Such components may include, but are not necessarily limited to: pavement, concrete, paved surface parking areas, sidewalks, building foundations and building slabs.

Any future on-site buildings will be required to have a sub-slab depressurization system, or a similar engineered system, to prevent the migration of vapors into the building from soil and/or groundwater.

Periodic Review Report (PRR) Certification Statements

1. I certify by checking "YES" below that:

a) the Periodic Review report and all attachments were prepared under the direction of, and reviewed by, the party making the Engineering Control certification;

b) to the best of my knowledge and belief, the work and conclusions described in this certification are in accordance with the requirements of the site remedial program, and generally accepted engineering practices; and the information presented is accurate and complete.

YES NO

2. For each Engineering control listed in Box 4, I certify by checking "YES" below that all of the following statements are true:

(a) The Engineering Control(s) employed at this site is unchanged since the date that the Control was put in-place, or was last approved by the Department;

(b) nothing has occurred that would impair the ability of such Control, to protect public health and the environment;

(c) access to the site will continue to be provided to the Department, to evaluate the remedy, including access to evaluate the continued maintenance of this Control;

(d) nothing has occurred that would constitute a violation or failure to comply with the Site Management Plan for this Control; and

(e) if a financial assurance mechanism is required by the oversight document for the site, the mechanism remains valid and sufficient for its intended purpose established in the document.

YES NO

IF THE ANSWER TO QUESTION 2 IS NO, sign and date below and DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue.

A Corrective Measures Work Plan must be submitted along with this form to address these issues.

Signature of Owner, Remedial Party or Designated Representative

Date

IC CERTIFICATIONS
SITE NO. C224266

Box 6

SITE OWNER OR DESIGNATED REPRESENTATIVE SIGNATURE

I certify that all information and statements in Boxes 1, 2, and 3 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

I Saritha Thumma at 44-36 Vernon Blvd. LIC, NY 11101
print name print business address

am certifying as Owner (Owner or Remedial Party)

for the Site named in the Site Details Section of this form.

[Signature]
Signature of Owner, Remedial Party, or Designated Representative
Rendering Certification

3/26/25
Date

EC CERTIFICATIONS

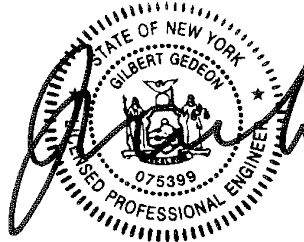
Box 7

Professional Engineer Signature

I certify that all information in Boxes 4 and 5 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

I Gilbert Gedeon at ATC(dba Atlas), 104 E25h Street, NY, NY 10010,
print name print business address

am certifying as a Professional Engineer for the New York City Department of Education
(Owner or Remedial Party)



03/24/2025

Signature of Professional Engineer, for the Owner or Remedial Party, Rendering Certification

Stamp
(Required for PE)

Date

Attachment 2
Custodian Monthly or Severe Condition Inspection Forms

Custodial Engineer Monthly or Severe Condition Inspection Form
PS K710

Inspector Name/Title: **Don LaMastrea CE**
 Inspection Date/Time: **8/11/24 @ 2:30 PM**

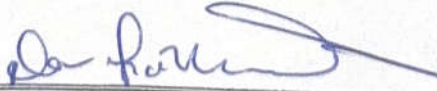
Purpose: (circle one) **Monthly Inspection** Severe Condition Inspection (describe)

		Yes / No *	Notified Person / Date
A. VAPOR BARRIER INSPECTION	1. Walk the entire lowest level floor(s)	Yes	
	* Any visible cracks in the building floor?	NO	
	* Any other visible openings (unintended) in the building floor?	NO	
	* Any construction activities affecting the building floor?	NO	
	* Any visible cracks in any accessible pits (e.g., ejector pit)?	NO	
	** Notification of DOE EHS is required if cracks are noted. Include the following information: - Draw approximate location of floor/wall cracks/openings on site map. - Note the length of the crack/opening. Note the width of the crack/opening.	N/A	
B. SSDS INSPECTION	1. Walk the entire roof surface.	Yes	
	* Any rust or other debris (bird nest, etc.) in or on SSDS Exhaust Stacks?	NO	
	* Note reading on vacuum pressure gauge for the operating fans (SF-1 = 3) (SF-2 = 3)	Yes	
	* Are SSDS fan units functioning at a lower vacuum than the previous inspection?	NO	
	* Is the spare fan unit missing from the school?	NO	
	* Is the SSDS in alarm?	NO	
C. ACTIONS TAKEN	N/A		
	Inspector's Signature: Don LaMastrea CE K710		

**Custodial Engineer Monthly or Severe Condition Inspection Form
PS K710**

Inspector Name/Title: Don LAURUSTRA CE K710
 Inspection Date/Time: 9/5/24 @ 2:11 pm

Purpose: (circle one) Monthly Inspection Severe Condition Inspection (describe)

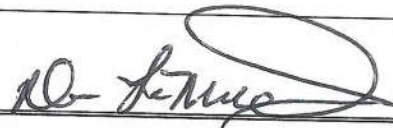
		Yes / No *	Notified Person / Date
A. VAPOR BARRIER INSPECTION	1. Walk the entire lowest level floor(s)	Yes	
	* Any visible cracks in the building floor?	NO	
	* Any other visible openings (unintended) in the building floor?	NO	
	* Any construction activities affecting the building floor?	NO	
	* Any visible cracks in any accessible pits (e.g., ejector pit)?	NO	
	** Notification of DOE EHS is required if cracks are noted. Include the following information: - Draw approximate location of floor/wall cracks/openings on site map. - Note the length of the crack/opening. Note the width of the crack/opening.	N/A	
B. SSDS INSPECTION	1. Walk the entire roof surface.	Yes	
	* Any rust or other debris (bird nest, etc.) in or on SSDS Exhaust Stacks?	N	
	* Note reading on vacuum pressure gauge for the operating fans (SF-1 = 3) (SF-2 = 3)	Yes	
	* Are SSDS fan units functioning at a lower vacuum than the previous inspection?	NO	
	* Is the spare fan unit missing from the school?	NO	
	* Is the SSDS in alarm?	NO	
C. ACTIONS TAKEN	N/A		
	Inspector's Signature: <u></u> CE K710		

WARNING OR SEVERE CONDITION

Custodial Engineer Monthly or Severe Condition Inspection Form
PS K710

Inspector Name/Title: **DON LAMASTRA CE**
 Inspection Date/Time: **10/2/23 1:00PM**

Purpose: (circle one) Monthly Inspection **Severe** Condition Inspection (describe)
High Wind / HEAVY RAIN

		Yes / No *	Notified Person / Date
A. VAPOR BARRIER INSPECTION	1. Walk the entire lowest level floor(s)	Yes	
	* Any visible cracks in the building floor?	NO	
	* Any other visible openings (unintended) in the building floor?	NO	
	* Any construction activities affecting the building floor?	NO	
	* Any visible cracks in any accessible pits (e.g., ejector pit)?	NO	
	** Notification of DOE EHS is required if cracks are noted. Include the following information: - Draw approximate location of floor/wall cracks/openings on site map. - Note the length of the crack/opening. Note the width of the crack/opening.	N/A	
B. SSSD INSPECTION	1. Walk the entire roof surface.	yes	
	* Any rust or other debris (bird nest, etc.) in or on SSSD Exhaust Stacks?	NO	
	* Note reading on vacuum pressure gauge for the operating fans (SF-1 = 3) (SF-2 = 3)	yes	
	* Are SSSD fan units functioning at a lower vacuum than the previous inspection?	NO	
	* Is the spare fan unit missing from the school?	NO	
	* Is the SSSD in alarm?	NO	
C. ACTIONS TAKEN	NONE		
	Inspector's Signature: 		

**Custodial Engineer Monthly or Severe Condition Inspection Form
PS K710**

Inspector Name/Title: DON LAM ASTRA CE

Inspection Date/Time: 4/2/23 12:00 PM

Purpose: (circle one)

Monthly Inspection


Severe Condition Inspection (describe)

		Yes / No *	Notified Person / Date
A. VAPOR BARRIER INSPECTION	1. Walk the entire lowest level floor(s)	yes	
	* Any visible cracks in the building floor?	NO	
	* Any other visible openings (unintended) in the building floor?	NO	
	* Any construction activities affecting the building floor?	NO	
	* Any visible cracks in any accessible pits (e.g., ejector pit)?	NO	
	** Notification of DOE EHS is required if cracks are noted. Include the following information: - Draw approximate location of floor/wall cracks/openings on site map. - Note the length of the crack/opening. Note the width of the crack/opening.	N/A	
B. SSDS INSPECTION	1. Walk the entire roof surface.	Yes	
	* Any rust or other debris (bird nest, etc.) in or on SSDS Exhaust Stacks?	NO	
	* Note reading on vacuum pressure gauge for the operating fans (SF-1 = 4) (SF-2 = 4)	yes	
	* Are SSDS fan units functioning at a lower vacuum than the previous inspection?	NO	
	* Is the spare fan unit missing from the school?	NO	
	* Is the SSDS in alarm?	NO	
C. ACTIONS TAKEN	<u>NONE</u>		
	Inspector's Signature: <u>Don Lam</u>		

**Custodial Engineer Monthly or Severe Condition Inspection Form
PS K710**

Inspector Name/Title: **Don LAMASTRA CE**
 Inspection Date/Time: **12/1/23 11:30am**

Purpose: (circle one) **Monthly Inspection** Severe Condition Inspection (describe)

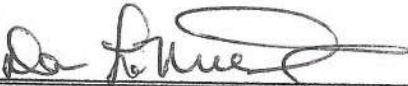
		Yes / No *	Notified Person / Date
A. VAPOR BARRIER INSPECTION	1. Walk the entire lowest level floor(s)	yes	
	* Any visible cracks in the building floor?	NO	
	* Any other visible openings (unintended) in the building floor?	NO	
	* Any construction activities affecting the building floor?	NO	
	* Any visible cracks in any accessible pits (e.g., ejector pit)?	NO	
	** Notification of DOE EHS is required if cracks are noted. Include the following information: - Draw approximate location of floor/wall cracks/openings on site map. - Note the length of the crack/opening. Note the width of the crack/opening.	N/A	
B. SSDS INSPECTION	1. Walk the entire roof surface.	yes	
	* Any rust or other debris (bird nest, etc.) in or on SSDS Exhaust Stacks?	NO	
	* Note reading on vacuum pressure gauge for the operating fans (SF-1 = 3) (SF-2 = 3)	yes	
	* Are SSDS fan units functioning at a lower vacuum than the previous inspection?	yes, i	
	* Is the spare fan unit missing from the school?	NO	
	* Is the SSDS in alarm?	NO	
C. ACTIONS TAKEN	NONE		
	Inspector's Signature: 		

**Custodial Engineer Monthly or Severe Condition Inspection Form
PS K710**

Inspector Name/Title: **Don Lamastera CE**

Inspection Date/Time: **1/3/24 2:42 PM**

Purpose: (circle one) **Monthly** Inspection Severe Condition Inspection (describe)


		Yes / No *	Notified Person / Date
A. VAPOR BARRIER INSPECTION	1. Walk the entire lowest level floor(s)	yes	
	* Any visible cracks in the building floor?	no	
	* Any other visible openings (unintended) in the building floor?	no	
	* Any construction activities affecting the building floor?	no	
	* Any visible cracks in any accessible pits (e.g., ejector pit)?	no	
	** Notification of DOE EHS is required if cracks are noted. Include the following information: - Draw approximate location of floor/wall cracks/openings on site map. - Note the length of the crack/opening. Note the width of the crack/opening.	N/A	
B. SSDS INSPECTION	1. Walk the entire roof surface.	yes	
	* Any rust or other debris (bird nest, etc.) in or on SSDS Exhaust Stacks?	no	
	* Note reading on vacuum pressure gauge for the operating fans (SF-1 = 3) (SF-2 = 3)	yes	
	* Are SSDS fan units functioning at a lower vacuum than the previous inspection?	no	
	* Is the spare fan unit missing from the school?	no	
	* Is the SSDS in alarm?	no	
C. ACTIONS TAKEN	none		
	Inspector's Signature: 		

**Custodial Engineer Monthly or Severe Condition Inspection Form
PS K710**

Inspector Name/Title: **DON LAMASTRA CE**

Inspection Date/Time: **2/6/24**


Purpose: (circle one) **Monthly Inspection** Severe Condition Inspection (describe)

		Yes / No *	Notified Person / Date
A. VAPOR BARRIER INSPECTION	1. Walk the entire lowest level floor(s)	yes	
	* Any visible cracks in the building floor?	NO	
	* Any other visible openings (unintended) in the building floor?	NO	
	* Any construction activities affecting the building floor?	NO	
	* Any visible cracks in any accessible pits (e.g., ejector pit)?	NO	
	** Notification of DOE EHS is required if cracks are noted. Include the following information: - Draw approximate location of floor/wall cracks/openings on site map. - Note the length of the crack/opening. Note the width of the crack/opening.	N/A	
B. SSDS INSPECTION	1. Walk the entire roof surface.	yes	
	* Any rust or other debris (bird nest, etc.) in or on SSDS Exhaust Stacks?	NO	
	* Note reading on vacuum pressure gauge for the operating fans (SF-1 = 3) (SF-2 = 3)	yes	
	* Are SSDS fan units functioning at a lower vacuum than the previous inspection?	NO	
	* Is the spare fan unit missing from the school?	NO	
	* Is the SSDS in alarm?	NO	
C. ACTIONS TAKEN	NONE		
	Inspector's Signature: 		

**Custodial Engineer Monthly or Severe Condition Inspection Form
PS K710**

Inspector Name/Title: DOW LANASTRA CE
 Inspection Date/Time: 3/1/24 2.50PM

Purpose: (circle one) Monthly Inspection Severe Condition Inspection (describe)

		Yes / No *	Notified Person / Date
A. VAPOR BARRIER INSPECTION	1. Walk the entire lowest level floor(s)	YES	
	* Any visible cracks in the building floor?	NO	
	* Any other visible openings (unintended) in the building floor?	NO	
	* Any construction activities affecting the building floor?	NO	
	* Any visible cracks in any accessible pits (e.g., ejector pit)?	NO	
	** Notification of DOE EHS is required if cracks are noted. Include the following information: - Draw approximate location of floor/wall cracks/openings on site map. - Note the length of the crack/opening. Note the width of the crack/opening.	N/A	
B. SSDS INSPECTION	1. Walk the entire roof surface.	YES	
	* Any rust or other debris (bird nest, etc.) in or on SSDS Exhaust Stacks?	NO	
	* Note reading on vacuum pressure gauge for the operating fans (SF-1 = 3) (SF-2 = 3)	Yes	
	* Are SSDS fan units functioning at a lower vacuum than the previous inspection?	NO	
	* Is the spare fan unit missing from the school?	NO	
	* Is the SSDS in alarm?	NO	
C. ACTIONS TAKEN			
	Inspector's Signature: <u></u>		

**Custodial Engineer Monthly or Severe Condition Inspection Form
PS K710**

Inspector Name/Title: **DON LAMASTRA CE**

Inspection Date/Time: **4/5/24 @ 1500**

Purpose: (circle one) **Monthly** Inspection **Severe** Condition Inspection (describe)

		Yes / No *	Notified Person / Date
A. VAPOR BARRIER INSPECTION	1. Walk the entire lowest level floor(s)	Yes	
	* Any visible cracks in the building floor?	NO	
	* Any other visible openings (unintended) in the building floor?	NO	
	* Any construction activities affecting the building floor?	NO	
	* Any visible cracks in any accessible pits (e.g., ejector pit)?	NO	
	** Notification of DOE EHS is required if cracks are noted. Include the following information: - Draw approximate location of floor/wall cracks/openings on site map. - Note the length of the crack/opening. Note the width of the crack/opening.	N/A	
B. SSDS INSPECTION	1. Walk the entire roof surface.	Yes	
	* Any rust or other debris (bird nest, etc.) in or on SSDS Exhaust Stacks?	not	
	* Note reading on vacuum pressure gauge for the operating fans (SF-1 = 3) (SF-2 = 3)	Yes	
	* Are SSDS fan units functioning at a lower vacuum than the previous inspection?	NO	
	* Is the spare fan unit missing from the school?	NO	
	* Is the SSDS in alarm?	NO	
C. ACTIONS TAKEN			
	NOTE: Check completed following H. & EARTH QUAKE		
Inspector's Signature: <i>Don Lamstra</i>			

**Custodial Engineer Monthly or Severe Condition Inspection Form
PS K710**

Inspector Name/Title: DON LAMASTRA CE

Inspection Date/Time: 5/2/24 1:25pm

Purpose: (circle one)

Monthly Inspection

Severe Condition Inspection (describe)

		Yes / No *	Notified Person / Date
A. VAPOR BARRIER INSPECTION	1. Walk the entire lowest level floor(s)	yes	
	* Any visible cracks in the building floor?	NO	
	* Any other visible openings (unintended) in the building floor?	NO	
	* Any construction activities affecting the building floor?	NO	
	* Any visible cracks in any accessible pits (e.g., ejector pit)?	NO	
	** Notification of DOE EHS is required if cracks are noted. Include the following information: - Draw approximate location of floor/wall cracks/openings on site map. - Note the length of the crack/opening. Note the width of the crack/opening.	N/A	
B. SSDS INSPECTION	1. Walk the entire roof surface.	yes	
	* Any rust or other debris (bird nest, etc.) in or on SSDS Exhaust Stacks?	NO	
	* Note reading on vacuum pressure gauge for the operating fans (SF-1 = <u>3</u>) (SF-2 = <u>3</u>)	yes	
	* Are SSDS fan units functioning at a lower vacuum than the previous inspection?	NO	
	* Is the spare fan unit missing from the school?	NO	
	* Is the SSDS in alarm?	NO	
C. ACTIONS TAKEN	<u>NONE</u>		
	Inspector's Signature: <u>Don LaMastr</u> CE K710		

**Custodial Engineer Monthly or Severe Condition Inspection Form
PS K710**

Inspector Name/Title: **DON LAMASTRA CE**

Inspection Date/Time: **6/3/24 12:25**

Purpose: (circle one)

Monthly Inspection

Severe Condition Inspection (describe)

		Yes / No *	Notified Person / Date
A. VAPOR BARRIER INSPECTION	1. Walk the entire lowest level floor(s)	Yes	
	* Any visible cracks in the building floor?	NO	
	* Any other visible openings (unintended) in the building floor?	NO	
	* Any construction activities affecting the building floor?	NO	
	* Any visible cracks in any accessible pits (e.g., ejector pit)?	NO	
	** Notification of DOE EHS is required if cracks are noted. Include the following information: - Draw approximate location of floor/wall cracks/openings on site map. - Note the length of the crack/opening. Note the width of the crack/opening.	N/A	
B. SSDS INSPECTION	1. Walk the entire roof surface.	Yes	
	* Any rust or other debris (bird nest, etc.) in or on SSDS Exhaust Stacks?	NO	
	* Note reading on vacuum pressure gauge for the operating fans (SF-1 = 3) (SF-2 = 3)	Yes	
	* Are SSDS fan units functioning at a lower vacuum than the previous inspection?	NO	
	* Is the spare fan unit missing from the school?	NO	
	* Is the SSDS in alarm?	NO	
C. ACTIONS TAKEN	None		
	Inspector's Signature: Don LaMastro CE K710		

Custodial Engineer Monthly or Severe Condition Inspection Form
PS K710

Inspector Name/Title: DON LAMASTRA CE

Inspection Date/Time: 7/2/24 2:34

Purpose: (circle one) Monthly Inspection Severe Condition Inspection (describe)

		Yes / No *	Notified Person / Date
A. VAPOR BARRIER INSPECTION	1. Walk the entire lowest level floor(s)	<u>Yes</u>	
	* Any visible cracks in the building floor?	<u>NO</u>	
	* Any other visible openings (unintended) in the building floor?	<u>NO</u>	
	* Any construction activities affecting the building floor?	<u>NO</u>	
	* Any visible cracks in any accessible pits (e.g., ejector pit)?	<u>NO</u>	
	** Notification of DOE EHS is required if cracks are noted. Include the following information: - Draw approximate location of floor/wall cracks/openings on site map. - Note the length of the crack/opening. Note the width of the crack/opening.	<u>N/A</u>	
B. SSDS INSPECTION	1. Walk the entire roof surface.	<u>Yes</u>	
	* Any rust or other debris (bird nest, etc.) in or on SSDS Exhaust Stacks?	<u>NO</u>	
	* Note reading on vacuum pressure gauge for the operating fans (SF-1 = <u>3</u>) (SF-2 = <u>3</u>)	<u>Yes</u>	
	* Are SSDS fan units functioning at a lower vacuum than the previous inspection?	<u>NO</u>	
	* Is the spare fan unit missing from the school?	<u>NO</u>	
	* Is the SSDS in alarm?	<u>NO</u>	
C. ACTIONS TAKEN	<u>None</u>		
	Inspector's Signature: <u>Don Lamastra</u> CE K710		

**Custodial Engineer Monthly or Severe Condition Inspection Form
PS K710**

Inspector Name/Title: **DON LAMASTRA CE**
 Inspection Date/Time: **8/1/24 @ 2:30 PM**

Purpose: (circle one) **Monthly Inspection** Severe Condition Inspection (describe)

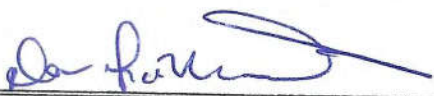
		Yes / No *	Notified Person / Date
A. VAPOR BARRIER INSPECTION	1. Walk the entire lowest level floor(s)	Yes	
	* Any visible cracks in the building floor?	NO	
	* Any other visible openings (unintended) in the building floor?	NO	
	* Any construction activities affecting the building floor?	NO	
	* Any visible cracks in any accessible pits (e.g., ejector pit)?	NO	
	** Notification of DOE EHS is required if cracks are noted. Include the following information: - Draw approximate location of floor/wall cracks/openings on site map. - Note the length of the crack/opening. Note the width of the crack/opening.	N/A	
B. SSDS INSPECTION	1. Walk the entire roof surface.	Yes	
	* Any rust or other debris (bird nest, etc.) in or on SSDS Exhaust Stacks?	NO	
	* Note reading on vacuum pressure gauge for the operating fans (SF-1 = 3) (SF-2 = 3)	Yes	
	* Are SSDS fan units functioning at a lower vacuum than the previous inspection?	NO	
	* Is the spare fan unit missing from the school?	NO	
	* Is the SSDS in alarm?	NO	
C. ACTIONS TAKEN	N/A		
	Inspector's Signature: Don LaMastra CE K710		

**Custodial Engineer Monthly or Severe Condition Inspection Form
PS K710**

Inspector Name/Title: Don LANASTRA CE K710

Inspection Date/Time: 9/5/24 @ 2:11 pm

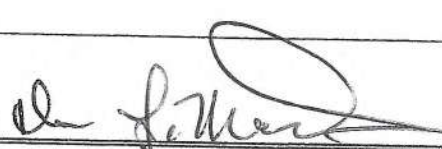
Purpose: (circle one) Monthly Inspection Severe Condition Inspection (describe)

		Yes / No *	Notified Person / Date
A. VAPOR BARRIER INSPECTION	1. Walk the entire lowest level floor(s)	Yes	
	* Any visible cracks in the building floor?	NO	
	* Any other visible openings (unintended) in the building floor?	NO	
	* Any construction activities affecting the building floor?	NO	
	* Any visible cracks in any accessible pits (e.g., ejector pit)?	NO	
	** Notification of DOE EHS is required if cracks are noted. Include the following information: - Draw approximate location of floor/wall cracks/openings on site map. - Note the length of the crack/opening. Note the width of the crack/opening.	N/A	
B. SSDS INSPECTION	1. Walk the entire roof surface.	Yes	
	* Any rust or other debris (bird nest, etc.) in or on SSDS Exhaust Stacks?	N	
	* Note reading on vacuum pressure gauge for the operating fans (SF-1 = 3) (SF-2 = 3)	Yes	
	* Are SSDS fan units functioning at a lower vacuum than the previous inspection?	NO	
	* Is the spare fan unit missing from the school?	NO	
	* Is the SSDS in alarm?	NO	
C. ACTIONS TAKEN	N/A		
	Inspector's Signature: <u></u> CE K710		

Custodial Engineer Monthly or Severe Condition Inspection Form
PS K710

Inspector Name/Title: Don LAMASTRA CE
 Inspection Date/Time: 10/1/24 11:00AM


Purpose: (circle one) Monthly Inspection Severe Condition Inspection (describe)

		Yes / No *	Notified Person / Date
A. VAPOR BARRIER INSPECTION	1. Walk the entire lowest level floor(s)	yes	
	* Any visible cracks in the building floor?	no	
	* Any other visible openings (unintended) in the building floor?	no	
	* Any construction activities affecting the building floor?	no	
	* Any visible cracks in any accessible pits (e.g., ejector pit)?	no	
	** Notification of DOE EHS is required if cracks are noted. Include the following information: - Draw approximate location of floor/wall cracks/openings on site map. - Note the length of the crack/opening. Note the width of the crack/opening.	N/A	
B. SSDS INSPECTION	1. Walk the entire roof surface.	yes	
	* Any rust or other debris (bird nest, etc.) in or on SSDS Exhaust Stacks?	no	
	* Note reading on vacuum pressure gauge for the operating fans (SF-1 = <u>3</u>) (SF-2 = <u>3</u>)	yes	
	* Are SSDS fan units functioning at a lower vacuum than the previous inspection?	no	
	* Is the spare fan unit missing from the school?	no	
	* Is the SSDS in alarm?	no	
C. ACTIONS TAKEN	<u>none</u>		
	Inspector's Signature: <u></u> CE K710		

**Custodial Engineer Monthly or Severe Condition Inspection Form
PS K710**

Inspector Name/Title: DON LAMASTRA CE
 Inspection Date/Time: 11/5/24 3:00 PM

Purpose: (circle one) Monthly Inspection Severe Condition Inspection (describe)

		Yes / No *	Notified Person / Date
A. VAPOR BARRIER INSPECTION	1. Walk the entire lowest level floor(s)	Yes	
	* Any visible cracks in the building floor?	NO	
	* Any other visible openings (unintended) in the building floor?	NO	
	* Any construction activities affecting the building floor?	NO	
	* Any visible cracks in any accessible pits (e.g., ejector pit)?	NO	
	** Notification of DOE EHS is required if cracks are noted. Include the following information: - Draw approximate location of floor/wall cracks/openings on site map. - Note the length of the crack/opening. Note the width of the crack/opening.	N/A	
B. SSDS INSPECTION	1. Walk the entire roof surface.	Yes	
	* Any rust or other debris (bird nest, etc.) in or on SSDS Exhaust Stacks?	NO	
	* Note reading on vacuum pressure gauge for the operating fans (SF-1 = 3) (SF-2 = 3)	Yes	
	* Are SSDS fan units functioning at a lower vacuum than the previous inspection?	NO	
	* Is the spare fan unit missing from the school?	NO	
	* Is the SSDS in alarm?	NO	
C. ACTIONS TAKEN	SSDS 1 - 2 bolts loose on shore joint 1 on STACK HUB		
	SSDS 2 - 2 bolts loose on shore joint 1 on STACK HUB All have been TIGHTENED.		
Inspector's Signature: 			

**Custodial Engineer Monthly or Severe Condition Inspection Form
PS K710**

Inspector Name/Title: DON LAMASTER / VICTOR MEADE
 Inspection Date/Time: 12/2/24 1:00

Purpose: (circle one) Monthly Inspection Severe Condition Inspection (describe)

		Yes / No *	Notified Person / Date
A. VAPOR BARRIER INSPECTION	1. Walk the entire lowest level floor(s)	yes	
	* Any visible cracks in the building floor?	no	
	* Any other visible openings (unintended) in the building floor?	no	
	* Any construction activities affecting the building floor?	no	
	* Any visible cracks in any accessible pits (e.g., ejector pit)?	no	
	** Notification of DOE EHS is required if cracks are noted. Include the following information: - Draw approximate location of floor/wall cracks/openings on site map. - Note the length of the crack/opening. Note the width of the crack/opening.	N/A	
B. SSDS INSPECTION	1. Walk the entire roof surface.	yes	
	* Any rust or other debris (bird nest, etc.) in or on SSDS Exhaust Stacks?	no	
	* Note reading on vacuum pressure gauge for the operating fans (SF-1 = 3) (SF-2 = 3)	yes	
	* Are SSDS fan units functioning at a lower vacuum than the previous inspection?	no	
	* Is the spare fan unit missing from the school?	no	
	* Is the SSDS in alarm?	No	
C. ACTIONS TAKEN	None		
	Inspector's Signature: <u>[Signature]</u> / <u>Victor Meade</u>		

Attachment 3
Routine and Preventative Maintenance Checklists

Routine and Preventative Maintenance Checklist

SSDS Fans

Inspector's Name/Title: Don LAMASTRA CE

Inspection Date/Time: April 22, 24 2:30pm


Purpose: (circle one)

Semi-annual Inspection

Fan Malfunction
(describe)

SSDS Fan Maintenance Checklist	Perform the steps below for every SSDS fan during a semi-annual inspection, or for any SSDS fan experiencing issues	Completed Y/N	List Any Issues or Unusual Behavior
	1. Disconnect, lock out, and tag fan electrical power source	N/A	N/A
	2. Clean/blow down centrifugal fan wheel, inlet, fan, and motor housing	Yes EXT.	N/A
	3. Grease fan shaft bearing pillow blocks	N/A	N/A
	4. Inspect fan inlet and outlet ductwork flex joints	Yes	N/A
	5. Inspect damper for proper orientation	Yes	N/A
	6. Inspect fan stack guy wires	Yes	N/A
	7. Inspect fan mounting and vibration isolators	Yes	N/A

*Notify the DOE EHS of any fan unit/component failure. In the event that a fan component fails, the component will be replaced by DOE EHS. DOE EHS will make appropriate arrangements in advance with suppliers to provide SSDS replacement parts within 12 hours notice. In the event that a fan unit fails, the backup fan will be switched on and the primary fan unit will be replaced by DOE EHS. Additionally, a spare fan will be available on-site for immediate replacement in case of fan failure.

Inspector's Signature: 

Routine and Preventative Maintenance Checklist

SSDS Fans

Inspector's Name/Title: **DON LAMASTRA CE**

Inspection Date/Time: **OCTOBER 23, 24 2:55 PM**

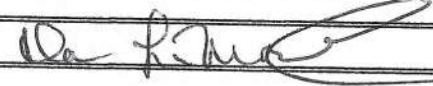
Purpose: (circle one)

Semi-annual Inspection

Fan Malfunction
(describe)

SSDS Fan Maintenance Checklist	Perform the steps below for every SSDS fan during a semi-annual inspection, or for any SSDS fan experiencing issues	Completed Y/N	List Any Issues or Unusual Behavior
	1. Disconnect, lock out, and tag fan electrical power source	N/A	N/A
	2. Clean/blow down centrifugal fan wheel, inlet, fan, and motor housing	yes	N/A
	3. Grease fan shaft bearing pillow blocks	N/A	N/A
	4. Inspect fan inlet and outlet ductwork flex joints	yes	N/A
	5. Inspect damper for proper orientation	yes	N/A
	6. Inspect fan stack guy wires	yes	N/A
	7. Inspect fan mounting and vibration isolators	yes	N/A

*Notify the DOE EHS of any fan unit/component failure. In the event that a fan component fails, the component will be replaced by DOE EHS. DOE EHS will make appropriate arrangements in advance with suppliers to provide SSDS replacement parts within 12 hours notice. In the event that a fan unit fails, the backup fan will be switched on and the primary fan unit will be replaced by DOE EHS. Additionally, a spare fan will be available on-site for immediate replacement in case of fan failure.

Inspector's Signature: 

Attachment 4
Training Acknowledgement Letter



ENVIRONMENTAL • GEOTECHNICAL
BUILDING SCIENCES • MATERIALS TESTING

104 East 25th St, 8th Floor
New York, NY 10010-2917
www.atcgroupservices.com
212-353-8280
Fax 212-353-8306

**Annual Training Acknowledgement
Engineering Controls Operation and Maintenance**

Location: R 710

Custodian/Fireman: Don LAMASTRA

I, Don LAMASTRA, received annual refresher training on Engineering Controls Operation and Maintenance by ATC Group Services, LLC (ATC) on 11/8/25. As part of the annual refresher training I conducted a walkthrough with ATC during which all elements covered by the Operation and Maintenance Plan were explained to me including the completion of the daily logs and monthly inspection form.

Signed by: 
Custodian/Fireman

Date: 11/8/25

Recommendations:

All good. Continue monthly & semiannual inspections.

Attachment 5
Photographic Documentation

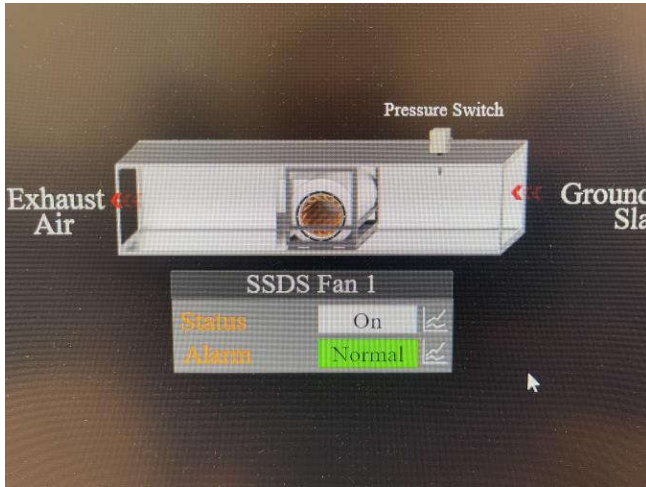


Photo 1: View of the BMS associated with SSDS-1.

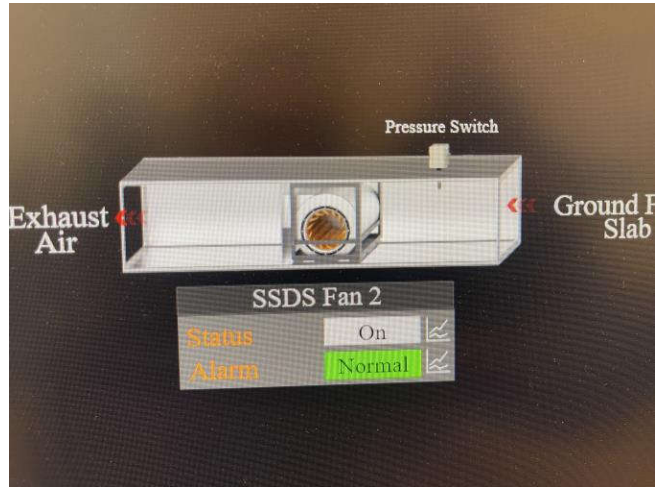


Photo 2: View of the BMS associated with SSDS-2.



Photo 3: View of the AIS in Custodian's Office.



Photo 4: View of spare SSDS fan unit in Room 306.

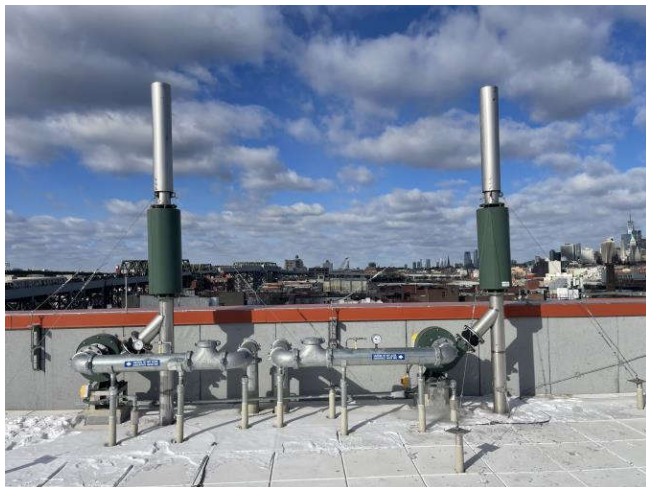


Photo 5: View of both roof-mounted SSDS fan units.

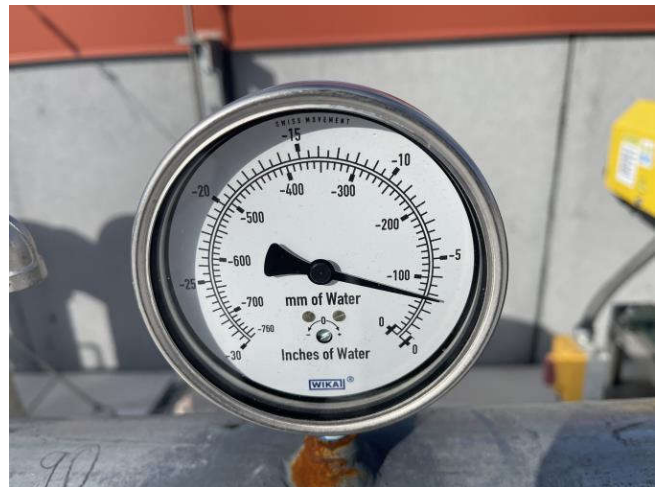


Photo 6: View of the typical SSDS fan vacuum gauge.

New York City Department of Education
PS 710K
168 8th Street
Brooklyn, New York 11215



Photo 7: View of SSDS monitoring point in school lobby.



Photo 8. View of a typical bare concrete floor in Room C002.

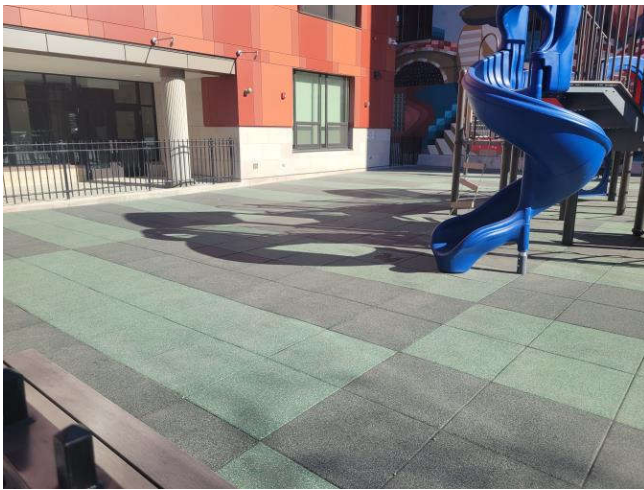


Photo 7: View of playground cover system along 9th Street.



Photo 8. View of concrete walkway cover system along 8th Street.

Attachment 6
Annual Inspection Form

**ANNUAL INSPECTION FORM
PS K710**

Inspector's Name/Title: Ed Gedeon

Weather Conditions: Sunny

Inspection Date: 1/28/25

Air Temperature (°F): 20°F

Inspection Time: _____

Comments: _____

A. PRE INSPECTION CHECKLIST

- Schedule Annual Inspection when school is not occupied by students.
- * Review Monthly Inspection Checklists from prior 12 months.
- * Meet with Custodial Engineer and Principal to solicit comments/concerns regarding the operation of the Engineering Controls over the last 12 months.
- * Conduct Annual Refresher Training with Engineering Controls team
- * Follow proper safety protocols including lockout/tagout.
- * Comments: _____

B. SUB-SLAB DEPRESSURIZATION SYSTEM INSPECTION

- * Walk the entire roof surface, custodial office, and applicable storage rooms of school building
- * Inspect fan stack guy wires.
- * Record vacuum gauge reading on riser pipes or SSDS fan(s). SSDS-1 = 3" w.c. / SSDS-2 = 3" a.c.
- * Ensure all SSDS accessories listed in section 15880 are functioning properly.
- * Inspect bolts and set screws for tightness and rusty condition.
- * Inspect SSDS fan(s) for cleanliness. Clean exterior surfaces only. Remove dust and grease on motor housing.
- * Are the indicator lights on the Alarm Indication Station functioning properly?
- * Is the spare fan unit present at the school?
- * Inspect monitoring points (look for obstructions, check manhole/bolts, quick connects).
- * Comments (see or hear anything unusual?): _____

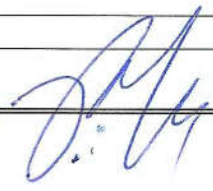
C. VAPOR BARRIER INSPECTION

- Walk all of the lowest levels of the building**
- * Review all cracks or other openings identified in lowest level slab during previous inspections. Confirm repairs have been made. NA
- * Any new visible cracks/penetrations/work in the floor? None
- * Any new visible opening (unintended) in the floor? None
- * Any new visible cracks in accessible pits? NA
- * Note the length of any new cracks/openings in the floor. NA
- * Draw approximate location of floor cracks/openings that appear to have potential leak through vapor barrier.
- Comments: NA

D. Repair

Summarize needed/completed repairs to Engineering Controls:

Inspector's Signature:



Annual Inspection Form
Cover System
P.S. K710

Inspector's Name: David Gonzalez Weather Conditions: Sun
Inspection Date: 1/28/25 Air Temperature (°F): 44° F
Inspection Time: 1/18/25 06:00
Comments:

A. COVER SYSTEM BUILDING INTERIOR - LOWEST LEVEL (CELLAR) INSPECTION

Inquire with Custodian whether any ground intrusive activities have taken place within the lowest level (cellar) since the last cover system inspection (typically annually).

Walk the entire lowest level (cellar) and report the following:

- Any penetrations not sealed in the cellar floors/walls. NO
- Any visible cracks or settlement in the cellar floors/walls. NO
- Any other visible openings (unintended) in the ground floors. NO
- Draw approximate location of floor cracks/openings on site map. N/A
- Note the length of the crack/opening. N/A
- Note the width of the crack/opening. N/A

Comments:

B. COVER SYSTEM - EXTERIOR INSPECTION

Inquire with Custodian whether any ground intrusive activities have taken place since the last cover system inspection (typically annually). None

Walk and inspect the entire perimeter and courtyard of the Site. Complete

Walk and inspect all of the paved areas (concrete and asphalt) of the Site. Complete

Walk and inspect all of the unpaved areas of the Site including areas with pavers, synthetic turf, and landscaping, and report the following:

- Any penetrations not sealed in the paved areas. NO
- Any signs of significant cracks, settlement, or deterioration of the paved areas. NO
- Any of the pavement material removed. NO
- Any indicators of vehicular use on the unpaved areas (tire tracks, rutting, etc.). NO
- Any structures that have been constructed on the unpaved areas or through paved areas. NO
- Inspect synthetic turf/concrete pavers/landscaped area. Any problems identified? NO
- Any indicators of soil washing or erosion (gullies, soil washed out onto the pavement). NO
- Any indicators of intrusive activities (drilling, digging, trenching, grading, excavating, etc.). NO

Comments:

C. Repair

Summarize needed/completed repairs to Engineering Controls:

N/A - Applicable

Inspector's Signature: [Signature]

Attachment 7
Annual Monitoring Point Inspection Checklist

PS K710

Annual Monitoring Point Inspection Checklist

Inspect all monitoring point locations for obstructions; check the manhole covers (and bolts) along with the quick connections inside the manhole.

Monitoring Point ID	Room Number	Any obstructions over MP	Manhole cover secure and bolts in tact	Comments (status of quick-connect fitting, etc.)
MP-1	108 - Classroom	Y / <input checked="" type="radio"/> N	<input checked="" type="radio"/> Y / N	
MP-2	104 - Custodians Office	Y / <input checked="" type="radio"/> N	<input checked="" type="radio"/> Y / N	
MP-3	Lobby	Y / <input checked="" type="radio"/> N	<input checked="" type="radio"/> Y / N	
MP-4	100A - Principals Office	Y / <input checked="" type="radio"/> N	<input checked="" type="radio"/> Y / N	



Attachment 8
Post-Mitigation Indoor Air Quality Survey Letter

March 5, 2024

Ms. Lee Guterman
Director of HazMat Unit
Industrial and Environmental Hygiene Division
New York City School Construction Authority
30-30 Thomson Avenue
Long Island City, NY 11101-3045

**Re: Post-Mitigation Indoor Air Quality Survey Letter Report
Pre-Kindergarten Facility K710
168 8th Street, Brooklyn, New York 11215
Block 1003, Lot 11
NYSDEC Site Number: C224266**

Dear Ms. Guterman:

This letter report summarizes the results of the Post-Mitigation Indoor Air Quality (IAQ) Survey of Pre-Kindergarten Facility K710 located at 168 8th Street, in the Park Slope section of Brooklyn, New York (hereafter referred to as the “Site”). The legal description for the Site is Block 1003, Lot 11.

The Site is improved with a three-story building with a penthouse and partial basement, and an exterior playground, and is a pre-kindergarten center. The main entrance is located on 9th Street.

The Post-Mitigation IAQ sampling event was performed in accordance with the NYSDEC-approved Site Management Plan (SMP) dated August 16, 2023, which requires collection of indoor air samples within one year of SSDS startup during the heating season.

The purpose of this report is to provide a brief discussion of the field work and results of the Post-Mitigation IAQ Survey.

Scope of IAQ Survey

The IAQ sampling was conducted in general accordance with the New York State Department of Health (NYSDOH) Final Guidance for Evaluating Soil Vapor Intrusion in the State of New York, dated October 2006 (NYSDOH Vapor Intrusion Guidance Document) and the NYSDEC-approved SMP dated August 16, 2023. The Post-Mitigation IAQ Survey field activities were performed on February 8 and February 9, 2024 and included the following:

- A pre-sampling building inspection and documentation of chemical inventory (refer to *Appendix A*). No interfering conditions were identified during the pre-sampling inspection.
- Confirmation of the operation of the heating, ventilation, and air conditioning (HVAC) system and sub-slab depressurization system (SSDS).
- Collection and analysis of one (1) indoor air sample from the partial basement of the Site building and two (2) indoor air samples from the first floor of the Site building (refer to *Figure 1*).
- Collection of one (1) ambient outdoor air sample from the playground (refer to *Figure 1*).

The IAQ was conducted in general accordance with the NYSDEC-approved SMP with the following exception:

- Indoor air sample TRC-IA-02 was relocated approximately 30 feet northeast from the reuse/recycling room on the first floor of the Site building to a classroom on the first floor of the Site building.

During the pre-sampling building inspection, a part per billion (ppb)-range photoionization detector (PID) was utilized to screen indoor air sample locations and adjacent spaces for the presence of organic vapors. No PID readings above 0 ppb were recorded throughout the basement or first floor of the Site building.

The partial basement and first floor of the Site building were inspected for cracks, penetrations, and other preferential pathways for soil vapor intrusion such as floor drains and sumps. The Site building is constructed with a 60-mil Liquid Boot membrane gas vapor barrier below the concrete floor slabs, below grade walls and bottom slabs and walls of pits and sumps with continuous waterstops (installed 2022). Cracks were not identified in the basement floor or walls. Floor drains and utility penetrations were observed in the partial basement and through the first floor, as indicated on the building inspection questionnaire. The indoor air space directly above each of the floor drains was screened with a PID, and no PID readings above 0 ppb were recorded.

The three (3) indoor air samples and the one (1) ambient air sample were collected utilizing individually certified-clean 6-liter Summa canisters. The samples were collected over an 8-hour time period from a height of approximately 3 to 5 feet above the floor to simulate the typical breathing zone. Initial and final canister vacuum readings (inches of mercury) and sampling times were recorded on the laboratory chain-of-custody forms. During sampling, there were no activities being performed in the Site that would interfere with the IAQ sampling.

The IAQ samples were analyzed for volatile organic compounds (VOCs) utilizing United State Environmental Protection Agency (USEPA) Method TO-15.

The Summa canisters were properly labeled and transported via courier to Alpha Analytical of Mansfield, Massachusetts for analysis. Alpha Analytical is a NYSDOH Environmental Laboratory Approval Program (ELAP)-certified analytical laboratory for air quality sample analyses. A summary of the analytical results is provided in *Table 1*, a copy of the laboratory analytical report is attached in *Appendix B*, and a copy of the laboratory's current ELAP certification is provided in *Appendix C*.

Results

Analytical results for indoor/ambient air samples were compared to the NYSDOH Air Guideline Values (AGVs) presented in the NYSDOH Vapor Intrusion Guidance Document, NYSDOH's Tetrachloroethene (Perc) in Indoor and Outdoor Air September 2013 Fact Sheet ("NYSDOH Perc Fact Sheet"), and NYSDOH's Trichloroethene (TCE) in Indoor and Outdoor Air August 2015 Fact Sheet ("NYSDOH TCE Fact Sheet").

No VOCs were detected in the indoor air samples or the ambient air sample above the corresponding NYSDOH AGVs.

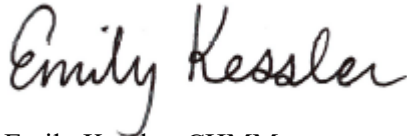
Quality Assurance and Quality Control

A quality assurance/quality control (QA/QC) program for the IAQ Survey was instituted to verify that the project analytical data objectives were met. The QA/QC program was implemented consistent with the Quality Assurance Project Plan (QAPP), which specifies the data quality objectives (DQOs) for each analytical parameter for the entire investigation. The QA/QC program included validation of the analytical data, as specified in the QAPP. The results of the data validation are summarized in a Data Usability Summary Report (DUSR) (refer to *Appendix D*), which was prepared in accordance with Appendix 2B – Guidance for Data Deliverables and the Development of Data Usability Summary Reports of “Division of Environmental (DER)-10 Technical Guidance for Site Investigation and Remediation,” dated May 2010. As a result of data validation, no data were rejected or qualified, and the data are acceptable for the intended purposes.

The results of the Post-Mitigation IAQ Survey will be included in the first Periodic Review Report.

Please do not hesitate to contact us at 212-221-7822 if you have any questions.

Sincerely,
TRC Engineers, Inc.



Emily Kessler, CHMM
Project Manager

cc: M. Sherwood, S. Kanaparthi, NYCSCA
M. Hemida, S. Thumma, DOE DSF
J. Raup, TRC

Enclosures:

Figures

Figure 1 – Indoor Air Quality Sample Locations

Tables

Table 1 – Summary of Results of Analysis of Indoor and Ambient Air Samples for Volatile Organic Compounds

Appendices



Appendix A – NYSDOH Indoor Air Quality Questionnaire and Building Inventory
Appendix B – Laboratory Analytical Report
Appendix C – Environmental Laboratory Approval Program Certification
Appendix D – Data Usability Summary Report

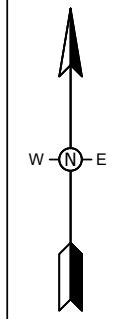
Figure

11X17 --- ATTACHED REFS: Brooklyn --- ATTACHED IMAGES: 168 8TH STREET - GPR0-00FT color: 197203 on: Sheet map: image: EFS02268_20220927.
 DRAWING NAME: (NYC-FPI)Shared/Projects/NYCSCA Contract C000015546457205 - K710 Construction Phase Services/Post-Mitigation IAQ/Report/Figures/Trc-WD/Fig 3 - IA & AA Samp. Locs. (K710).dwg --- PLOT DATE: February 23, 2024 - 3:04PM --- LAYOUT: 11X17L



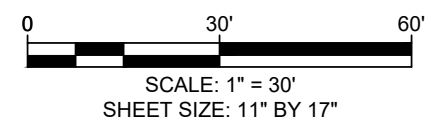
LEGEND (SYMBOLS NOT TO SCALE):


- - - - SITE BOUNDARY
- BUILDING FOOTPRINT
-  INDOOR AIR SAMPLE LOCATION AND IDENTIFICATION NUMBER
TRC-IA-##
-  AMBIENT AIR SAMPLE LOCATION AND IDENTIFICATION NUMBER
TRC-AA-##



NOTES:

1. LOCATIONS AND DIMENSIONS OF PHYSICAL FEATURES AND PROPERTY BOUNDARIES ARE APPROXIMATE.
2. BASEMAP IMAGERY SOURCE FROM NEARMAP DATED SEPTEMBER 27, 2022.
3. TRC-IA-01 WAS COLLECTED FROM THE BASEMENT OF THE SITE BUILDING.
4. TRC-IA-02, AND TRC-IA-03 WERE COLLECTED FROM THE FIRST FLOOR OF THE SITE BUILDING.
5. TRC-AA-01 WAS COLLECTED FROM THE OUTDOOR PLAYGROUND AREA OF SITE.



PROJECT: NEW YORK CITY SCHOOL CONSTRUCTION AUTHORITY INDOOR AIR QUALITY SURVEY - BCP SITE NO. C224266 PRE-KINDERGARTEN FACILITY K710 168 8TH STREET - BLOCK: 1003, LOT: 11 BROOKLYN, NY 11215	
TITLE: INDOOR AIR AND AMBIENT AIR SAMPLING LOCATIONS	
DRAWN BY: H. DELGADO	PROJ NO.: 457205
CHECKED BY: C. NICLAS	FIGURE 1
APPROVED BY: E. KESSLER	
DATE: FEBRUARY 2024	
 1407 Broadway, Suite 3301 New York, NY 10018 Phone: 212.221.7822 www.TRCompanies.com 	
FILE NO.:	Fig 3 - IA & AA Samp. Locs. (K710).dwg

Table

Table 1
 New York City School Construction Authority
 Public School K710 - New Construction
 168 8th Street, Brooklyn, New York
 Summary of Results of Analysis of Indoor and Ambient Air
 for Volatile Organic Compounds

SAMPLE ID:		TRC-IA-01		TRC-IA-02		TRC-IA-03		TRC-AA-01	
LABORATORY SAMPLE ID:		L2407645-01		L2407645-02		L2407645-03		L2407645-04	
DATE SAMPLE COLLECTED:		2/9/2024		2/9/2024		2/9/2024		2/9/2024	
MATRIX:		INDOOR AIR		INDOOR AIR		INDOOR AIR		AMBIENT AIR	
	NYSDOH AGVs ⁽¹⁾	Result		Result		Result		Result	
VOLATILE ORGANIC COMPOUND (µg/m ³)									
1,1,1-Trichloroethane (TCA)	--	0.109	U	0.109	U	0.109	U	0.109	U
1,1,1,2-Tetrachloroethane	--	1.37	U	1.37	U	1.37	U	1.37	U
1,1,2-Trichloroethane	--	1.09	U	1.09	U	1.09	U	1.09	U
1,1-Dichloroethane	--	0.809	U	0.809	U	0.809	U	0.809	U
1,1-Dichloroethene	--	0.079	U	0.079	U	0.079	U	0.079	U
1,2,4-Trichlorobenzene	--	1.48	U	1.48	U	1.48	U	1.48	U
1,2,4-Trimethylbenzene	--	0.983	U	0.983	U	0.983	U	0.983	U
1,2-Dibromoethane	--	1.54	U	1.54	U	1.54	U	1.54	U
1,2-Dichlorobenzene	--	1.20	U	1.20	U	1.20	U	1.20	U
1,2-Dichloroethane	--	0.809	U	0.809	U	0.809	U	0.809	U
1,2-Dichloropropane	--	0.924	U	0.924	U	0.924	U	0.924	U
1,3,5-Trimethylbenzene	--	0.983	U	0.983	U	0.983	U	0.983	U
1,3-Butadiene	--	0.442	U	0.442	U	0.442	U	0.442	U
1,3-Dichlorobenzene	--	1.20	U	1.20	U	1.20	U	1.20	U
1,4-Dichlorobenzene	--	1.20	U	1.20	U	1.20	U	1.20	U
1,4-Dioxane	--	0.721	U	0.721	U	0.721	U	0.721	U
2,2,4-Trimethylpentane	--	0.934	U	0.934	U	0.934	U	0.934	U
2-Butanone	--	1.47	U	1.47	U	1.47	U	1.47	U
2-Hexanone	--	0.820	U	0.820	U	0.820	U	0.820	U
3-Chloropropene	--	0.626	U	0.626	U	0.626	U	0.626	U
4-Ethyltoluene	--	0.983	U	0.983	U	0.983	U	0.983	U
4-Methyl-2-pentanone	--	2.05	U	2.05	U	2.05	U	2.05	U
Acetone	--	5.23		10.5		5.77		4.85	
Benzene	--	0.639	U	0.738		0.639	U	0.639	U
Benzyl chloride	--	1.04	U	1.04	U	1.04	U	1.04	U
Bromodichloromethane	--	1.34	U	1.34	U	1.34	U	1.34	U
Bromoform	--	2.07	U	2.07	U	2.07	U	2.07	U
Bromomethane	--	0.777	U	0.777	U	0.777	U	0.777	U
Carbon disulfide	--	0.623	U	0.623	U	0.623	U	0.623	U
Carbon tetrachloride	--	0.472		0.497		0.510		0.491	
Chlorobenzene	--	0.921	U	0.921	U	0.921	U	0.921	U
Chloroethane	--	0.528	U	0.528	U	0.528	U	0.528	U
Chloroform	--	0.977	U	0.977	U	0.977	U	0.977	U
Chloromethane	--	1.00		1.03		1.04		1.01	
cis-1,2-Dichloroethene	--	0.079	U	0.079	U	0.079	U	0.079	U
cis-1,3-Dichloropropene	--	0.908	U	0.908	U	0.908	U	0.908	U
Cyclohexane	--	0.688	U	0.688	U	0.688	U	0.688	U
Dibromochloromethane	--	1.70	U	1.70	U	1.70	U	1.70	U
Dichlorodifluoromethane	--	2.41		2.45		2.53		2.47	
Ethanol	--	15.0		36.0		14.2		9.42	U
Ethyl Acetate	--	1.80	U	2.81		1.80	U	1.80	U
Ethylbenzene	--	0.869	U	0.869	U	0.869	U	0.869	U
Freon-113	--	1.53	U	1.53	U	1.53	U	1.53	U
Freon-114	--	1.40	U	1.40	U	1.40	U	1.40	U
Heptane	--	0.820	U	0.820	U	0.820	U	0.820	U
Hexachlorobutadiene	--	2.13	U	2.13	U	2.13	U	2.13	U
Isopropanol	--	2.30		3.44		1.91		1.37	
Methyl tert butyl ether	--	0.721	U	0.721	U	0.721	U	0.721	U
Methylene chloride	60	1.74	U	1.74	U	1.74	U	1.74	U
n-Hexane	--	0.705	U	0.719		0.705	U	0.705	U
o-Xylene	--	0.869	U	0.869	U	0.869	U	0.869	U
p/m-Xylene	--	1.74	U	1.74	U	1.74	U	1.74	U
Styrene	--	0.852	U	0.852	U	0.852	U	0.852	U
Tertiary butyl Alcohol	--	1.52	U	1.52	U	1.52	U	1.52	U
Tetrachloroethene (PCE)	30	0.251		0.319		0.251		0.210	
Tetrahydrofuran	--	1.47	U	2.98		1.47	U	1.47	U
Toluene	--	0.852		1.77		0.980		0.754	U
trans-1,2-Dichloroethene	--	0.793	U	0.793	U	0.793	U	0.793	U
trans-1,3-Dichloropropene	--	0.908	U	0.908	U	0.908	U	0.908	U
Trichloroethene (TCE)	2	0.107	U	0.107	U	0.107	U	0.107	U
Trichlorofluoromethane	--	1.24		1.31		1.34		1.28	
Vinyl bromide	--	0.874	U	0.874	U	0.874	U	0.874	U
Vinyl chloride	--	0.051	U	0.051	U	0.051	U	0.051	U

Notes:

µg/m³ - Micrograms per cubic meter

-- - No criterion

U - Non-detect

⁽¹⁾ New York State Department of Health (NYSDOH) Air Guideline Values (AGV).

Bold and shaded results exceed NYSDOH AGVs.

Appendix A – NYSDOH 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 Elsie He Date/Time Prepared February 8,2024; 0830

Preparer's Affiliation Environmental Scientist at TRC Engineers, Inc. Phone No. 917-576-5867

Purpose of Investigation Post-Mitigation Indoor Air Quality (IAQ) Survey

1. OCCUPANT:

Interviewed: Y N

Last Name: Lamastra First Name: Donald

Address: 168 8th Street, Brooklyn, New York 11215

County: Kings County

~~Home~~ Phone: 917-922-8506 Office Phone: 718-500-4350

Number of Occupants/persons at this location Approx 10 Age of Occupants 18+ Pre-Kindergarden facility not yet occupied
at time of survey

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
Industrial

School
 Church

Commercial/Multi-use
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: <u>N/A</u>

If multiple units, how many? _____

If the property is commercial, type?

Business Type(s) Pre-Kindergarden Public School

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

Other characteristics:

Number of floors 3; Plus partial basement Building age <1; Constructed in 2023.

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:

Tracer smoke not used.

Airflow between floors

Through stairwells, elevator shaft, and heating, ventilation, and air conditioning (HVAC) supply and return ducts.

Airflow near source

N/A

Outdoor air infiltration

Pre-Sampling: Active entrances and HVAC supply and return ducts.

During Sampling: Occassional opening/closing of doors at main entrance and HVAC supply and return ducts.

Infiltration into air ducts

Through HVAC supply ducts.

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

Basement/Lowest level depth below grade: Approx 10 (feet)

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

Basement: Two (2) x ten (10) inch diameter drains in water service room, one (1) x ten (10) inch drain and approx four (4) inch utility porty in water meter room.

First floor: Two (2) x drains in first floor janitor's closet, one (1) x ten (10) inch drain and two (2) utility ports in principal's office, one (1) x covered utility port in lobby, two (2) x drains in staff bathroom, one (1) x covered utility port in custodian's office, one (1) five (5) inch drain in reuse room, one (1) x ten (10) inch drain in NW classroom.

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 Two (2) x RTUs
- Space Heaters Steam radiation Radiant floor Two (2) x Electric Boilers
- Electric baseboard Wood stove Outdoor wood boiler with three (3) pumps (roof boiler room)
- Other _____

The primary type of fuel used is:

- Natural Gas Fuel Oil Kerosene
- Electric Propane Solar
- Wood Coal

Domestic hot water tank fueled by: Electric

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

Air conditioning: Central Air Window units Open Windows None

Are there air distribution ducts present? Y N

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

Duct work visible in basement water service room, water meter room, contractor storage room, and corridor.

Condition appears excellent/good and joints appear tight. Air supply from RTUs.

Ducts partially visible on first floor through screen. Air return noted in contractor storage. According to the custodian, air return ducts are in every classroom (including first floor) --> one supply and one return per classroom.

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 Mechanical rooms (water service room, water meter room, electrical service room).

1st Floor Warming pantry, classroom, restrooms, offices, storage rooms/closets.

2nd Floor Classrooms, gym, restrooms, storage rooms.

3rd Floor Classrooms, restrooms, nurse's office, storage rooms.

4th Floor N/A

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? _____

One (1) room on 2nd floor cleaned two (2) weeks ago.

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? Touch up painting within past two (2) months
- 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

The building was constructed in 2023 with an active sub-slab depressurization system (SSDS) that was operational at the time of the survey.

9. WATER AND SEWAGE

- Water Supply: Public Water Drilled Well Driven Well Dug Well Other: _____
- Sewage Disposal: Public Sewer Septic Tank Leach Field Dry Well Other: _____

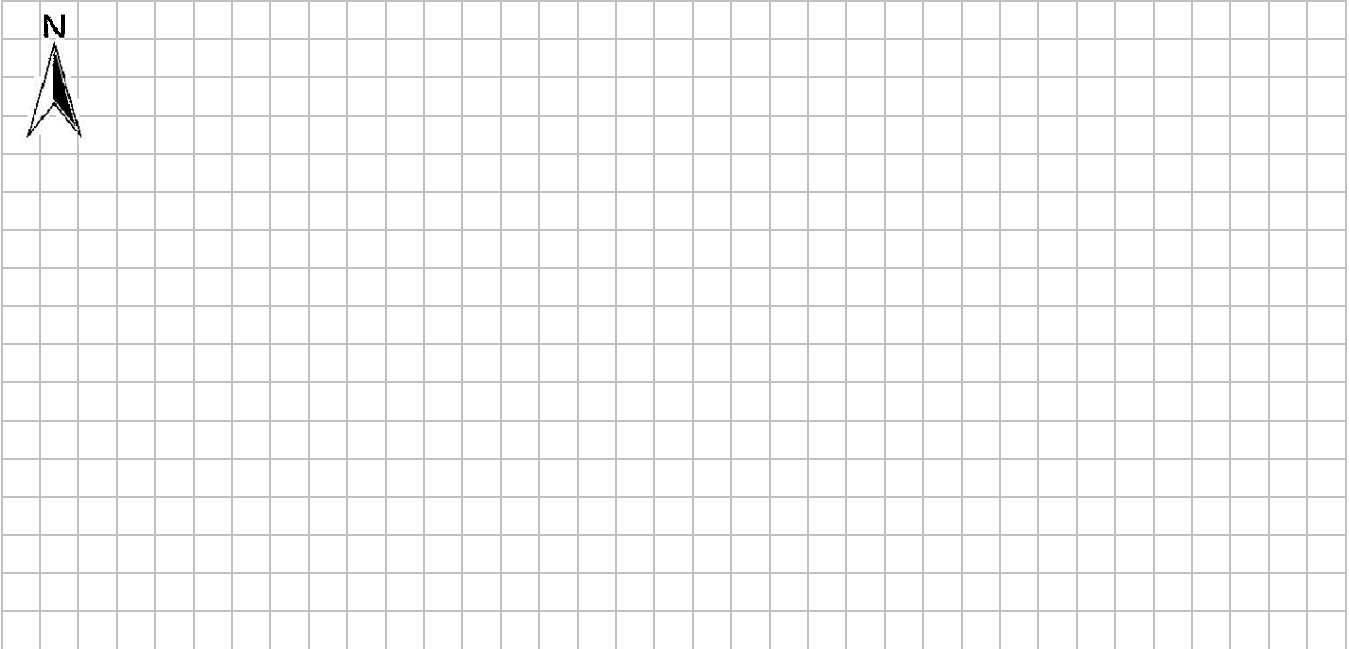
10. RELOCATION INFORMATION (for oil spill residential emergency)

- a. Provide reasons why relocation is recommended: N/A
- 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

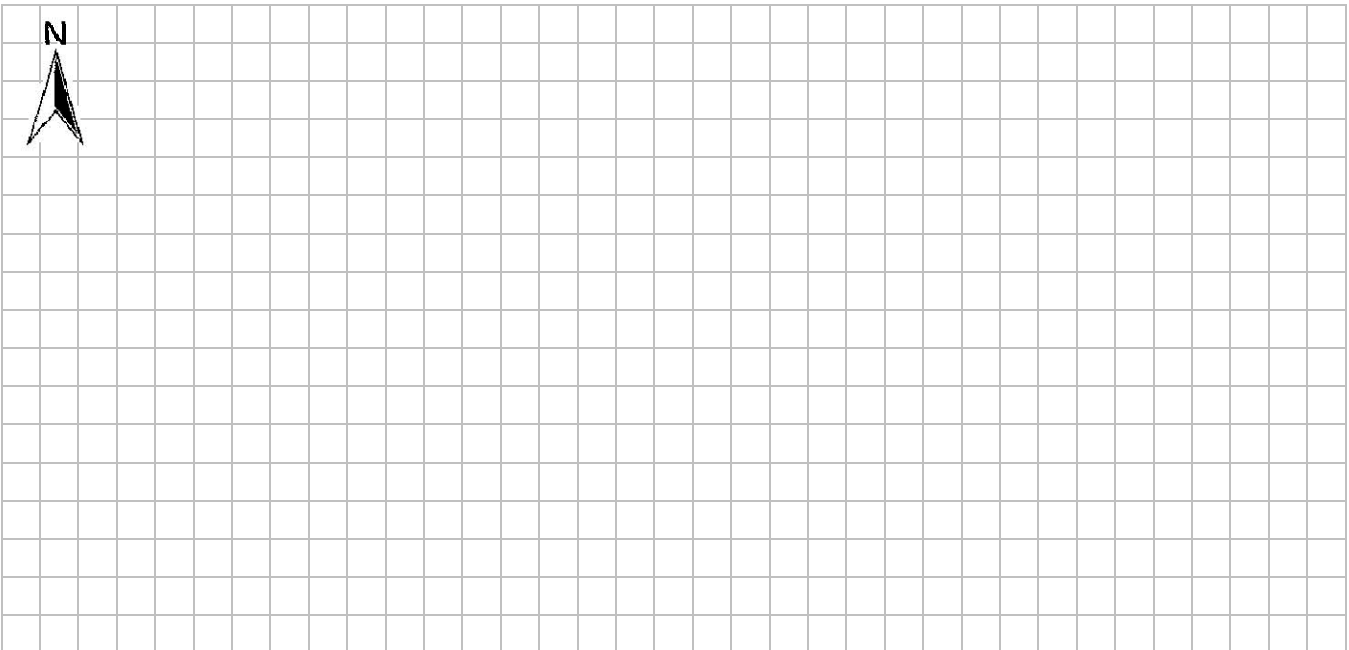
11. FLOOR PLANS

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: Please see attached figure.



First Floor: Please see attached figure.

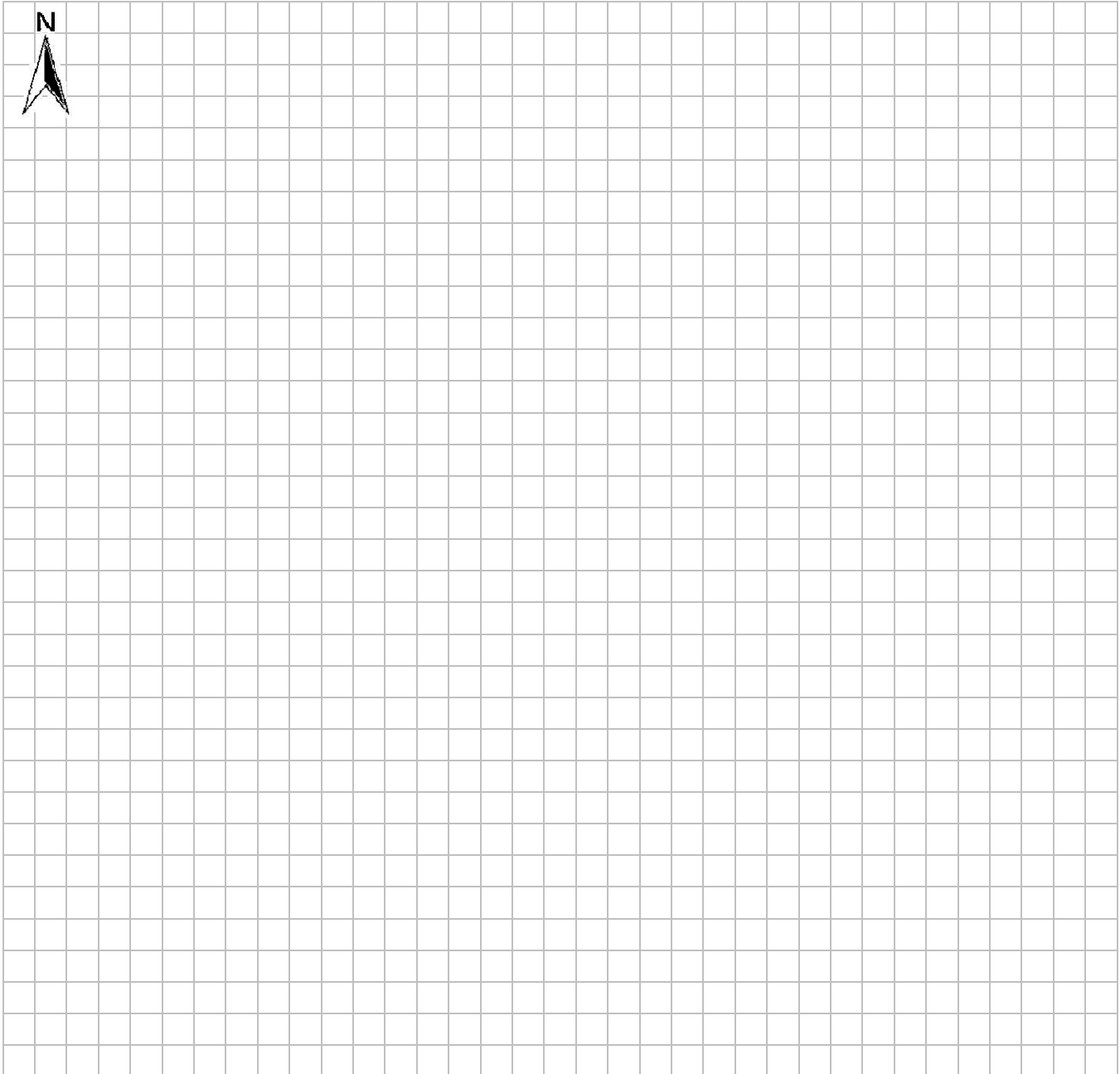


12. OUTDOOR PLOT

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.

Please see attached figure.



13. PRODUCT INVENTORY FORM

Make & Model of field instrument used: ppbRAE 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
Custodian's storage	NABC Bathroom Cleaner	5 gal	UO	Not on label/see photos	0 ppb	Y
Custodian's storage	Spray-Nine Heavy-Duty Cleaner/De-greaser	5x32oz	UO	see photos	0 ppb	Y
Custodian's storage	Victoria Bay Glass Cleaner Ammoniated	10x32oz	UO	see photos	0 ppb	Y
Custodian's storage	Inopak Inoderm Clean Green Liquid Soap	5x1gal	UO	see photos	0 ppb	Y
Custodian's storage	Envirox H2Orange, Concentrate 117 Sanitizer	2x32oz	U	see photos	0 ppb	Y
Warming pantry	Bathroom Plus Non-Acid Disinfectant Cleaner	1x32oz	U	see photos	0 ppb	Y
Warming pantry	Spray-Nine Heavy-Duty Cleaner/De-greaser	1x32oz	U	see photos	0 ppb	Y
Warming pantry	Inopak Inoderm Clean Green Liquid Soap	1x1gal	U	see photos	0 ppb	Y
Warming pantry	Knight Medicating Cream Deodorant	1x1gal	U	see photos	0 ppb	Y
Contractor storage	Lysol Disinfectant Spray	1x19oz	U	see photos	0 ppb	Y
Contractor storage	Onpace Finishing Solutions	1x4.5oz	U	see photos	0 ppb	Y
Contractor storage	Ready Match Touchup	1x12oz	U	see photos	0 ppb	Y
Contractor storage	Omega Smooth Patch 100% Acrylic Textured Emich	1x5gal	U	see photos	0 ppb	Y
Contractor storage	Ultrahand Eco 711 Adhesive	2x5gal	U	see photos	0 ppb	Y
Contractor storage	Kerapoxy CQ Epoxy Grout and Motor	1x2gal	U	see photos	0 ppb	Y
Contractor storage	Fantastic Multisurface Disinfectant	1x32oz	U	see photos	0 ppb	Y
Contractor storage	HDX Spray with Unknown Content	1x32oz	U	see photos	0 ppb	Y
Contractor storage	Henry Couchbase Adhesive	1x4gal	U	not on label/see photos	0 ppb	Y
Contractor storage	Windex Glass and More	1x1gal	U	see photos	0 ppb	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.

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Make & Model of field instrument used: ppbRAE 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 ** <u>Y / N</u>
Contractor storage	AC-20-Smeane Caulking Company	6x10oz	U	see photos	0 ppb	Y
Contractor storage	Dowsil 795 Sealant	2x10oz	U	see photos	0 ppb	Y
Contractor storage	Loctite PL 200 Adhesive	2x28oz	U	not on label/see photos	0 ppb	Y
Custodian's Storage	Knight Dura-shine Floor Finish	3x5gal	UO	not on label/see photos	0 ppb	Y

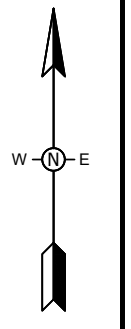
* Describe the condition of the product containers as **Unopened (UO)**, **Used (U)**, or **Deteriorated (D)**
 ** Photographs of the **front and back** of product containers can replace the handwritten list of chemical ingredients. However, the photographs must be of good quality and ingredient labels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

11X17L --- ATTACHED REFS: Brooklyn --- ATTACHED IMAGES: 16818TH STREET - GBR000FT color: 197203 on Sheet map image: EFS02263_20220927.
 DRAWING NAME: \\NYC-FPI\Shared\Projects\NY CSCA Contract C00001546457205 - K710 Construction Phase Services\Post-Mitigation\IAQ\Report\Figures\TRC\WD\Fig 3 - IA & AA Samp. Locs. (K710).dwg --- PLOT DATE: February 23, 2024 - 3:04PM --- LAYOUT: 11X17L



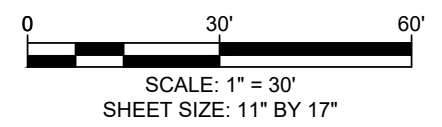
LEGEND (SYMBOLS NOT TO SCALE):

- - - - SITE BOUNDARY
- BUILDING FOOTPRINT
- INDOOR AIR SAMPLE LOCATION AND IDENTIFICATION NUMBER
TRC-IA-##
- AMBIENT AIR SAMPLE LOCATION AND IDENTIFICATION NUMBER
TRC-AA-##

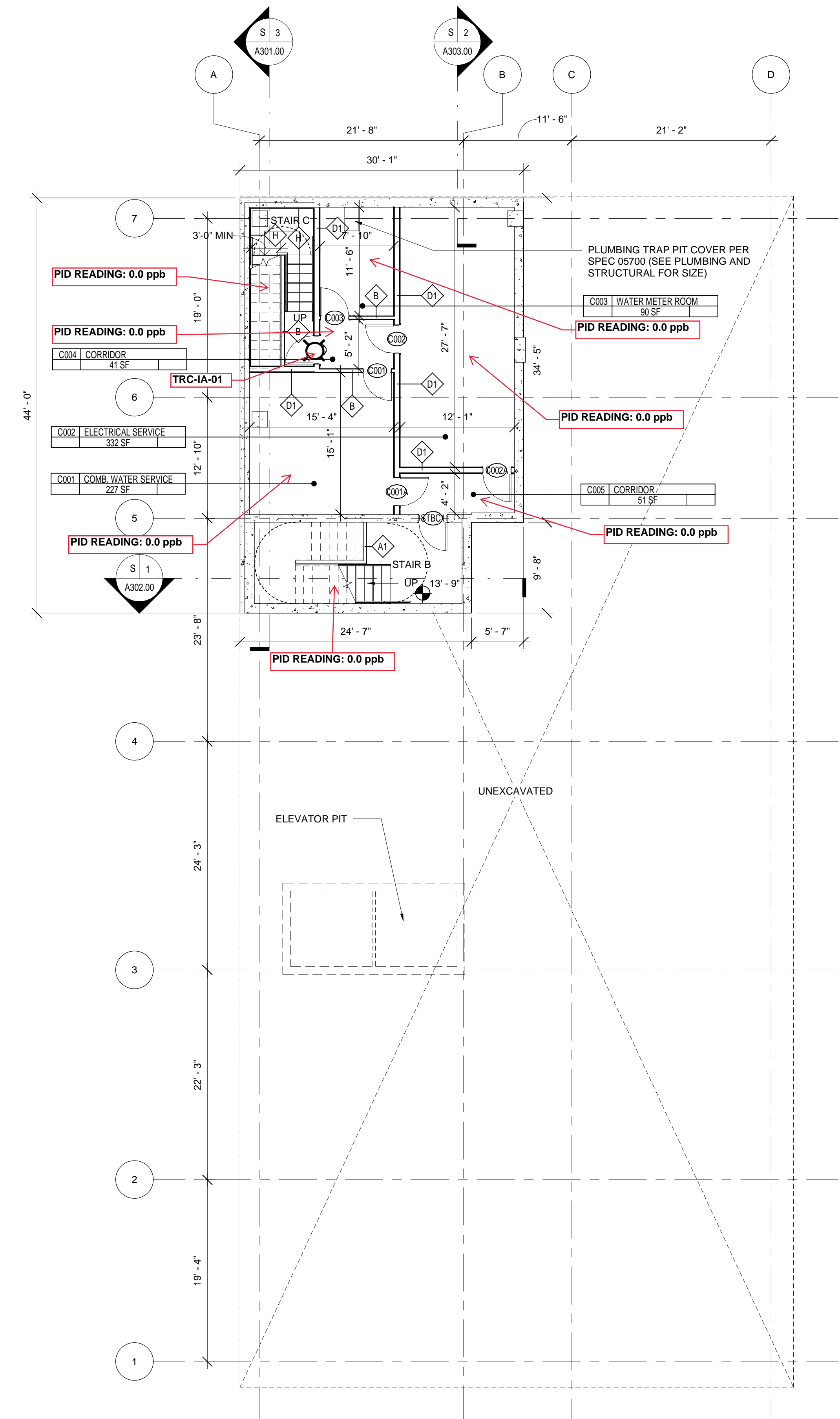


NOTES:

1. LOCATIONS AND DIMENSIONS OF PHYSICAL FEATURES AND PROPERTY BOUNDARIES ARE APPROXIMATE.
2. BASEMAP IMAGERY SOURCE FROM NEARMAP DATED SEPTEMBER 27, 2022.
3. TRC-IA-01 WAS COLLECTED FROM THE BASEMENT OF THE SITE BUILDING.
4. TRC-IA-02, AND TRC-IA-03 WERE COLLECTED FROM THE FIRST FLOOR OF THE SITE BUILDING.
5. TRC-AA-01 WAS COLLECTED FROM THE OUTDOOR PLAYGROUND AREA OF SITE.
6. WIND DIRECTION AND SPEED DURING SAMPLING: 6 MPH S.



PROJECT: NEW YORK CITY SCHOOL CONSTRUCTION AUTHORITY INDOOR AIR QUALITY SURVEY - BCP SITE NO. C224266 PRE-KINDERGARTEN FACILITY K710 168 8TH STREET - BLOCK: 1003, LOT: 11 BROOKLYN, NY 11215	
TITLE: New York State Department of Health Indoor Air Quality Questionnaire - Outdoor Plot Sketch	
DRAWN BY: H. DELGADO	PROJ NO.: 457205
CHECKED BY: C. NICLAS	FIGURE 2
APPROVED BY: E. KESSLER	
DATE: FEBRUARY 2024	
 1407 Broadway, Suite 3301 New York, NY 10018 Phone: 212.221.7822 www.TRCompanies.com 	
FILE NO.:	Fig 3 - IA & AA Samp. Locs. (K710).dwg



S 1
A101.00
CELLAR
1/8" = 1'-0"

0 4' 8' 16'

GENERAL PLAN NOTES:

- REFER TO SHEET T003 FOR GENERAL PROJECT NOTES.
- REFER TO SHEET T004 FOR ABBREVIATIONS AND SYMBOLS.
- REFER TO SHEET A701 FOR PARTITION TYPES.
- REFER TO SHEET A702 FOR FIRE STOPPING DETAILS.
- REFER TO A800'S SERIES SHEETS FOR REFLECTED CEILING PLANS.
- REFER TO A800'S SERIES SHEETS FOR FINISH MATERIALS.
- REFER TO SHEET A910 FOR DOOR SCHEDULE.
- REFER TO FF SERIES SHEETS FOR FURNITURE PLANS.
- UNLESS OTHERWISE INDICATED PLACE DOORS 4" FROM WALL ON HINGE SIDE AND 18" MINIMUM ON LATCH SIDE.
- REFER TO ELECTRICAL DRAWINGS FOR POWER, EQUIPMENT AND LOW VOLTAGE OUTLETS.
- PROVIDED THROUGH PENETRATION FIRE STOPPING ASSEMBLY AT EVERY PENETRATION OF FIRE RATED CONSTRUCTION.
- COORDINATE WITH MECHANICAL, ELECTRICAL, PLUMBING AND OTHER SYSTEM DRAWINGS. SEE A702 FOR FIRE STOPPING DETAILS.
- ROOMS 207 AND 307 ARE "AREA OF RESCUE ASSISTANCE ROOMS".
- ALL ROOFING MEMBRANE TO BE IRMA (PROTECTED)
- ALL ROOFS TO INCLUDE 2X2 PAVERS (AS SHOWN) - MIN. SRI = 78%
- ALL SLOPES TO DRAIN TO BE 1/8" PER FOOT
- SLOPES TO DRAINS TO BE FORMED WITH CEMENTITIOUS CONCRETE FILL MATERIAL PER SPECIFICATIONS
- 6'-0" MIN. ACCESS AT PERIMETER REQUIRED FOR FDNY.
- FOR WINDOW SHADE ASSIGNMENT, SEE WINDOW SCHEDULE. SHEET A920

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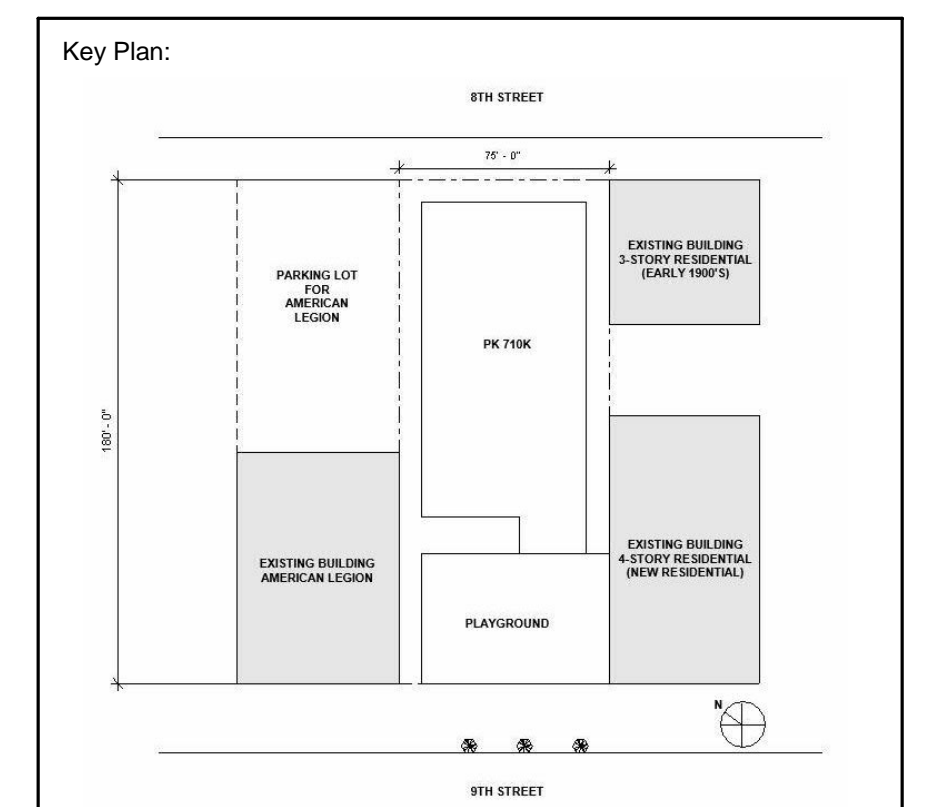
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romanogastland.com

NOTE: Drawing may be printed at reduced scale

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No.	Date	Revision
1	01/17/2020	BID TURNOVER



Block # 1003 Lot # 11

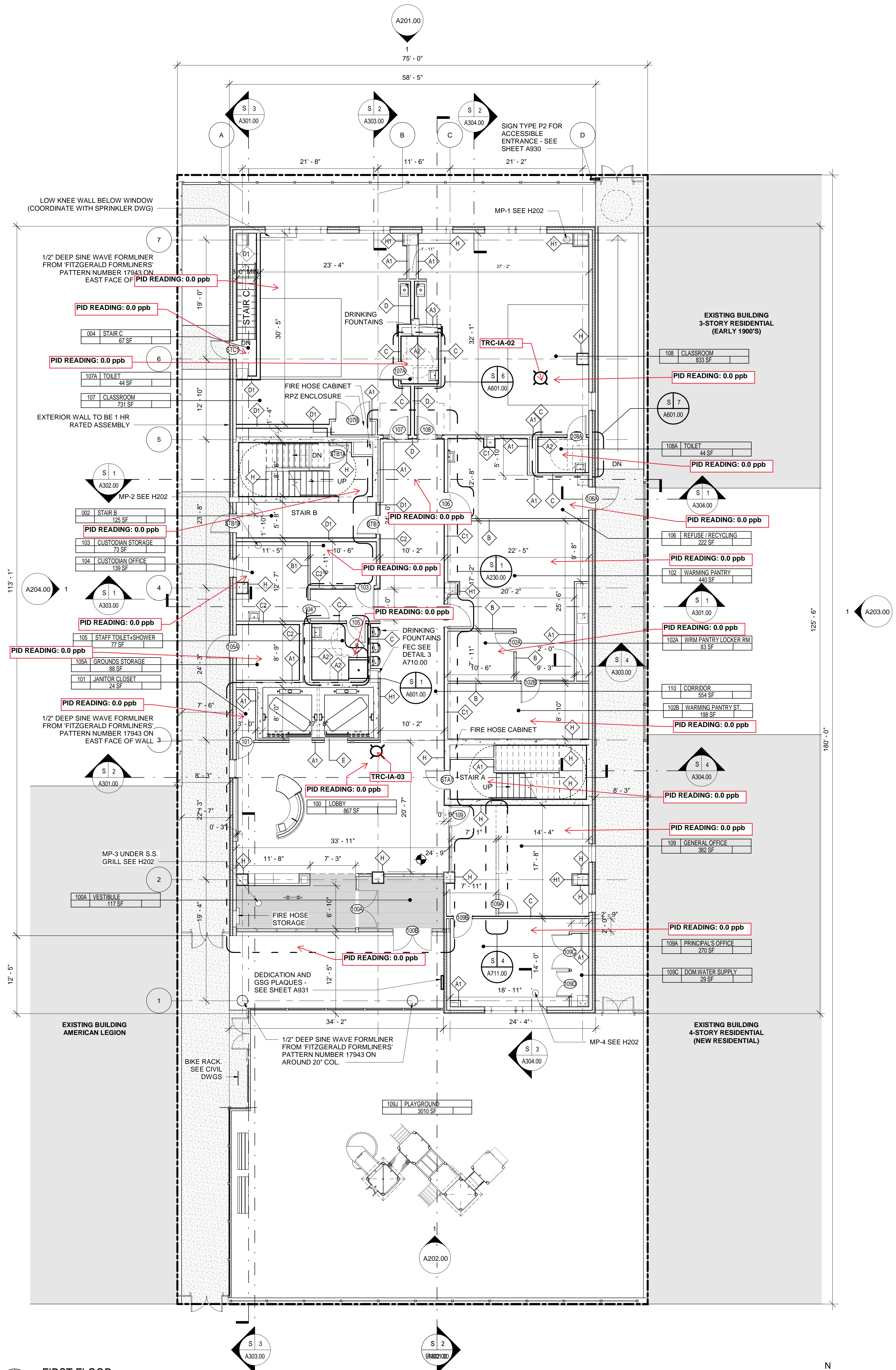
SCA Design Manager:	SELM OZALP, R.A.
Project Architect/Engineer:	SCOTT HOLLAS, R.A.
Discipline Lead:	LAZAR KESIC, R.A.
Designer:	IAN BENTLEY
Drawn by:	IAN BENTLEY
Checked by:	JEFFREY BURKE R.A.
LIW No:	099267
Facility Code:	K710
Date:	02/28/2024

Project:
PRE-K CENTER - BROOKLYN

Address:
197 9TH STREET
BROOKLYN, NEW YORK 11209

Drawing Title:
NEW YORK STATE DEPARTMENT OF HEALTH
INDOOR AIR QUALITY QUESTIONNAIRE
BASEMENT FLOOR PLAN

Drawing No.:	A101.00
Sheets in Contract Set:	1 of 2
Sheets in DOB Set:	1 of 2



GENERAL PLAN NOTES:

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- REFER TO SHEET A702 FOR FIRE STOPPING DETAILS.
- REFER TO A800'S SERIES SHEETS FOR REFLECTED CEILING PLANS.
- REFER TO A900'S SERIES SHEETS FOR FINISH MATERIALS.
- REFER TO SHEET A310 FOR DOOR SCHEDULE.
- REFER TO FF SERIES SHEETS FOR FURNITURE PLANS.
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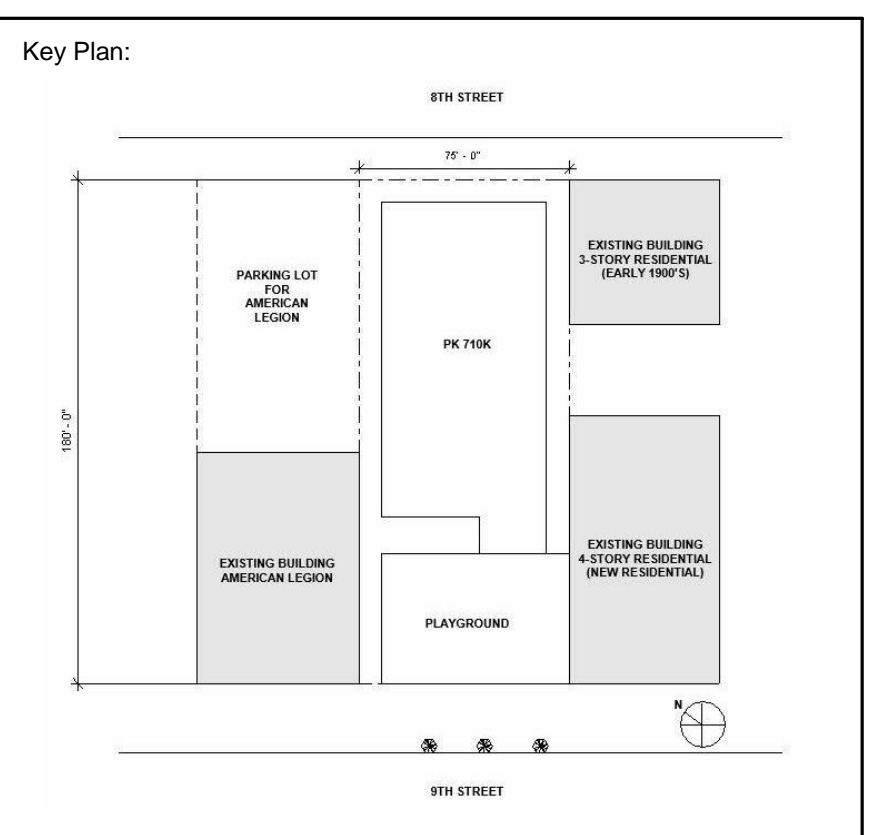
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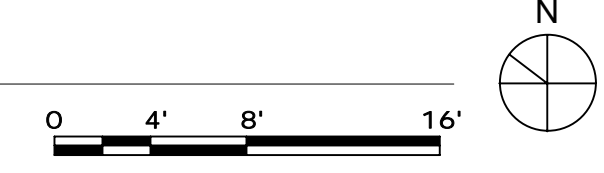
Block #	1003	Lot #	11
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Discipline Lead:	LAZAR KESIC, R.A.		
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Project:
PRE-K CENTER - BROOKLYN

Address:
197 9TH STREET
BROOKLYN, NEW YORK 11209

Drawing Title:
NEW YORK STATE DEPARTMENT OF
HEALTH INDOOR AIR QUALITY
QUESTIONNAIRE FIRST FLOOR PLAN

S 1
A102.00
FIRST FLOOR
1/8" = 1'-0"



Drawing No.:
A102.00

Sheets in Contract Set:
2 of 2

Sheets in DOB Set:
2 of 2

Appendix B – Laboratory Analytical Report



www.alphalab.com



Alpha Analytical

Laboratory Code: 11148

SDG Number: L2407645

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Project Name: K710 IAQ
Project Number: 457205

Lab Number: L2407645
Report Date: 02/16/24

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2407645-01	TRC-IA-01	AIR	168 8TH STREET, BROOKLYN, NY	02/09/24 15:44	02/09/24
L2407645-02	TRC-IA-02	AIR	168 8TH STREET, BROOKLYN, NY	02/09/24 15:24	02/09/24
L2407645-03	TRC-IA-03	AIR	168 8TH STREET, BROOKLYN, NY	02/09/24 14:02	02/09/24
L2407645-04	TRC-AA-01	AIR	168 8TH STREET, BROOKLYN, NY	02/09/24 15:32	02/09/24

Project Name: K710 IAQ
Project Number: 457205

Lab Number: L2407645
Report Date: 02/16/24

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. All specific QC information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

HOLD POLICY

For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Client Services at 800-624-9220 with any questions.

Project Name: K710 IAQ
Project Number: 457205

Lab Number: L2407645
Report Date: 02/16/24

Case Narrative (continued)

Volatile Organics in Air

Canisters were released from the laboratory on January 26, 2024. The canister certification data is provided as an addendum.

The WG1885731-3 LCS recovery for carbon tetrachloride (132%), dibromochloromethane (142%) and bromoform (144%), associated with L2407645-01 through -04, is above the upper 130% acceptance limit. All samples associated with this LCS do not have reportable amounts of this analyte.

WG1885731-3: The quality control sample LCS, associated with WG1885731-3, did not meet the acceptance criteria for the full scan analysis for bromodichloromethane (132%) The associated compound for those samples were reported from the SIM analysis.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: *Christopher J. Anderson*

Report Date: 02/16/24

Title: Technical Director/Representative

GLOSSARY

Acronyms

DL	- Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LOD	- Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
LOQ	- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
NR	- No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Project Name: K710 IAQ
Project Number: 457205

Lab Number: L2407645
Report Date: 02/16/24

Footnotes

- 1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Chlordane: The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA, this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Gasoline Range Organics (GRO): Gasoline Range Organics (GRO) results include all chromatographic peaks eluting from Methyl tert butyl ether through Naphthalene, with the exception of GRO analysis in support of State of Ohio programs, which includes all chromatographic peaks eluting from Hexane through Dodecane.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

- A** - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- F** - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.
- G** - The concentration may be biased high due to matrix interferences (i.e. co-elution) with non-target compound(s). The result should be considered estimated.
- H** - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I** - The lower value for the two columns has been reported due to obvious interference.
- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where

Report Format: Data Usability Report



Project Name: K710 IAQ
Project Number: 457205

Lab Number: L2407645
Report Date: 02/16/24

Data Qualifiers

the identification is based on a mass spectral library search.

- P** - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R** - Analytical results are from sample re-analysis.
- RE** - Analytical results are from sample re-extraction.
- S** - Analytical results are from modified screening analysis.
- V** - The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)
- Z** - The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)
- ND** - Not detected at the reporting limit (RL) for the sample.



Volatile Organics Instruments

Volatile Organics:

Instrument: Agilent 7890 GC/5975C MSD
Trap: Supelco K Trap (VOACARB 3000)
Concentrator: EST Encon (or equivalent)
Autosampler: EST Centurion (or equivalent)
Purge time: 11 min

Columns (length x ID x df):
RTX-VMS 20m x 0.18mm x 1um
RTX-VMS 30m x 0.25mm x 1.4um
RTX-502.2 40m x 0.18mm x 1um

Volatile Organics: VPH

Instrument: Agilent 6890 (or equivalent)
Trap: Supelco K Trap (VOACARB 3000)
Concentrator: EST Encon (or equivalent)
Autosampler: EST Centurion (or equivalent)

Column Type: Restek RTX 502.2
Column Length: 105 Meters
df: 3.00 um
ID: 0.53mm

Volatile Organics: PIANO

Instrument: Agilent 7890 GC/5975C MSD
Trap: Supelco K Trap (VOACARB 3000)
Concentrator: Tekmar Velocity / EST Encon
Autosampler: Varian Archon / EST Centurion
Purge time: 11 min

Column Type: DB-VRX
Column Length: 60 Meters
df: 1.40 um
ID: 0.25 mm
Desorb: 1 min

Volatile Organics: Dissolved Gas

Instrument: Agilent 7890 (or equivalent) with FID/TCD

Column Type: Haysep S Column
Column Length: 2 Meters packed
(100/200 mesh)

Autosampler: LEAP Headspace

Purge time: 0.6 min

Volatile Organics in Air Instruments

Volatile Organics in Air:

Instruments: Agilent 6890 GC / 5975 MSD Shimadzu QP2010-SE / QP2020

Concentrator: Entech 7100A or 7200
Autosampler: Entech 7016CA or 7016D

Column Type: Restek RTX-1
Column Length: 60 Meters
df: 1.00 um
ID: 0.25 mm or 0.32 mm

Trap 1: Glass Bead: manufacturer-Entech: 20 cm packing material

Trap 2: Tenax: manufacturer-Entech: 20 cm packing material



Semivolatile Organics Instruments - Westborough

Semivolatile Organics (Acid/Base/Neutral Extractables):

Instrument: Agilent 5973N MSD	Injection volume: 1 ul;2 uL LVI
Column Type: Restek RXI-5SILMS	df: 0.32 um
Column Length: 30 Meters	ID: 0.25 mm

Polynuclear Aromatic Hydrocarbons by 8270 SIM:

Instrument: Agilent 5973 MSD	Injection volume: 1 ul;2 uL LVI
Column Type: Restek RXI-5SILMS	df: 0.25 um
Column Length: 30 Meters	ID: 0.25 mm

Pesticides/PCB/Herbicides:

Instrument: Agilent 6890 w/Dual Micro ECDs	Injection Volume: 1uL
Column A: Restek RTX-CL/STX-CL	df: 0.32
Column B: Restek RTX/STX-CLPPesticide II	df: 0.25
Column Length: 30 Meters	ID: 0.32 mm

Petroleum/EPH:

Instrument: Agilent 6890 w/FID / HP 5890 w/ FID	Injection Volume: 1uL
Column: Restek RTX 5	df: 0.25
Column Length: 30 Meters	
ID: 0.32 mm	



Semivolatile Organic Instruments - Mansfield

Semivolatile Organics (ALK-PAH Extractables):

Instrument: Agilent 5973N / 5975 MSD	Injection volume: 1 ul
Column Type: ZB-5	df: 0.25 um
Column Length: 60 Meters	ID: 0.25 mm

Semivolatile Organics (8270):

Instrument: Agilent 5973N / 5975 MSD	Injection volume: 2 ul
Column Type: ZB-Semivolatiles	df: 0.25 um
Column Length: 30 Meters	ID: 0.25 mm

Semivolatile Organics (8270 SIM):

Instrument: Agilent 5973N / 5975 MSD	Injection volume: 3 ul
Column Type: ZB-5	df: 0.25 um
Column Length: 30 Meters	ID: 0.25 mm

Semivolatile Organics (1,4-Dioxane):

Instrument: Agilent 5973N / 5975 / 5977 MSD	Injection volume: 3 ul
Column Type: RTX-5	df: 0.25um, 0.18 um
Column Length: 30 Meters	ID: 0.25um, 0.18 mm

Semivolatile Organics (209 Congener):

Instrument: Agilent 5973N / 5975 MSD	Injection volume: 3 ul
Column Type: RTX-5, RTX-PCB	df: 0.25um, 0.18 um
Column Length: 60 Meters	ID: 0.25um, 0.18 mm

Semivolatile Organics (8081):

Instrument: Agilent 6890 / 7890	Injection volume: 1 ul
Column Type: RTX-5 / RTX-CLP II	df: 0.25 um
Column Length: 60 Meters	ID: 0.25 mm

Semivolatile Organics (8082):

Instrument: Agilent 6890 w/Dual Micro ECDs	Injection Volume: 1uL
Column A: Restek RTX-CL/STX-CL	df: 0.32
Column B: Restek RTX/STX-CLPPesticide II	df: 0.25
Column Length: 30 Meters	ID: 0.32 mm

Semivolatile Organics (SHC Extractables):

Instrument: Agilent 6890	Injection volume: 1 ul
Column Type: RTX-5	df: 0.25 um
Column Length: 60 Meters	ID: 0.25 mm



Sample Delivery Group Summary

Alpha Job Number : L2407645

Received : 09-FEB-2024

Reviewer : Jennifer Jerome

Account Name : TRC Environmental Corp

Project Number : 457205

Project Name : K710 IAQ

Delivery Information

Samples Delivered By : Alpha Courier

Chain of Custody : Present

Cooler Information

Cooler	Seal/Seal#	Preservation	Temperature(°C)	Additional Information
NA	Absent/			

Condition Information

- | | |
|--|------------|
| 1) All samples on COC received? | YES |
| 2) Extra samples received? | NO |
| 3) Are there any sample container discrepancies? | NO |
| 4) Are there any discrepancies between COC & sample labels? | NO |
| 5) Are samples in appropriate containers for requested analysis? | YES |
| 6) Are samples properly preserved for requested analysis? | YES |
| 7) Are samples within holding time for requested analysis? | YES |
| 8) All sampling equipment returned? | YES |

Volatile Organics/VPH

- | | |
|--|-----------|
| 1) Reagent Water Vials Frozen by Client? | NA |
|--|-----------|

ALPHA ANALYTICAL LABORATORIES, INC.
LOGIN CHAIN OF CUSTODY REPORT
Feb 16 2024, 05:04 pm

Login Number: L2407645

Account: TRC-NY TRC Environmental Corp Project: 457205

Received: 09FEB24 Due Date: 16FEB24

Sample #	Client ID	Mat	PR	Collected
L2407645-01	TRC-IA-01	10	S0	09FEB24 15:44
TO15 SIM for 7 NYS DMCs ASP-B Package Due Date: 02/16/24				
ASP-B,CAN-CERT,CAN-RENT,FLOW-RENT,TO15-LL,TO15-SIM				
L2407645-02	TRC-IA-02	10	S0	09FEB24 15:24
TO15 SIM for 7 NYS DMCs Package Due Date: 02/16/24				
CAN-CERT,CAN-RENT,FLOW-RENT,TO15-LL,TO15-SIM				
L2407645-03	TRC-IA-03	10	S0	09FEB24 14:02
TO15 SIM for 7 NYS DMCs Package Due Date: 02/16/24				
CAN-CERT,CAN-RENT,FLOW-RENT,TO15-LL,TO15-SIM				
L2407645-04	TRC-AA-01	10	S0	09FEB24 15:32
TO15 SIM for 7 NYS DMCs Package Due Date: 02/16/24				
CAN-CERT,CAN-RENT,FLOW-RENT,TO15-LL,TO15-SIM				



AIR ANALYSIS

PAGE 1 OF 1Date Rec'd in Lab: 2/10/24ALPHA Job #: L2407645

CHAIN OF CUSTODY

320 Forbes Blvd, Mansfield, MA 02048
TEL: 508-822-9300 FAX: 508-822-3288

Project Information

Project Name: K710 IAG
Project Location: 168 8th Street, Brooklyn, NY
Project #: 454205
Project Manager: Emily Kessler
ALPHA Quote #:

Report Information - Data Deliverables

 FAX
 ADEX
Criteria Checker: _____
(Default based on Regulatory Criteria Indicated)
Other Formats: _____
 EMAIL (standard pdf report)
 Additional Deliverables:
AsE Category B
Report to: (if different than Project Manager)

Billing Information

 Same as Client info PO #: 212532

Client Information

Client: TRC Engineering, Inc
Address: 1407 Broadway Suite 3301
New York, NY 10018
Phone: 212-221-7822
Fax: 212-221-7840
Email: EKessler@trccompanies.com

Turn-Around Time

 Standard RUSH (only confirmed if pre-approved)
5 day
Date Due: _____ Time: _____

Regulatory Requirements/Report Limits

State/Fed	Program	Res / Comm

 These samples have been previously analyzed by AlphaOther Project Specific Requirements/Comments: Full TO-15 listProject-Specific Target Compound List:

All Columns Below Must Be Filled Out

ALPHA Lab ID (Lab Use Only)	Sample ID	COLLECTION					Sample Matrix*	Sampler's Initials	Can Size	ID Can	ID - Flow Controller	TO-15	TO-15 SIM	APH <small>(Subtract Non-petroleum PCS)</small>	Fixed Gases	Sulfides & Mercaptans by TO-15	Sample Comments (i.e. PID)
		End Date	Start Time	End Time	Initial Vacuum	Final Vacuum											
<u>07645-01</u>	<u>TRC-IA-01</u>	<u>2/9/24</u>	<u>0744</u>	<u>1544</u>	<u>-30.27</u>	<u>-5.53</u>	<u>AA</u>	<u>EH</u>	<u>6L</u>	<u>584</u>	<u>01655</u>	<input checked="" type="checkbox"/>					
<u>-02</u>	<u>TRC-IA-02</u>	<u>2/9/24</u>	<u>0739</u>	<u>1524</u>	<u>-28.44</u>	<u>-4.32</u>	<u>AA</u>	<u>EH</u>	<u>6L</u>	<u>2486</u>	<u>0779</u>	<input checked="" type="checkbox"/>					
<u>-03</u>	<u>TRC-IA-03</u>	<u>2/9/24</u>	<u>0738</u>	<u>1402</u>	<u>-30.61</u>	<u>-2.88</u>	<u>AA</u>	<u>EH</u>	<u>6L</u>	<u>3303</u>	<u>0027</u>	<input checked="" type="checkbox"/>					
<u>-04</u>	<u>TRC-AA-01</u>	<u>2/9/24</u>	<u>0747</u>	<u>1532</u>	<u>-30.29</u>	<u>-3.56</u>	<u>AA</u>	<u>EH</u>	<u>6L</u>	<u>2325</u>	<u>01710</u>	<input checked="" type="checkbox"/>					

*SAMPLE MATRIX CODES

AA = Ambient Air (Indoor/Outdoor)
SV = Soil Vapor/Landfill Gas/SVE
Other = Please SpecifyContainer Type: summa canistersRelinquished By: Elise He Gini
Tyler M. Yenciu
Paul Vitagrella
2/9/24 0140
2/10/24 0720Received By: Tyler M. Yenciu
Paul Vitagrella
2/9/24 1600
2/9/24 1800
2/10/24 0140
2/10/24 0720

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

Supporting Documentation

Project Name: K710 IAQ

Lab Number: L2407645

Project Number: 457205

Report Date: 02/16/24

Canister and Flow Controller Information

Samplenum	Client ID	Media ID	Media Type	Date Prepared	Bottle Order	Cleaning Batch ID	Can Leak Check	Initial Pressure (in. Hg)	Pressure on Receipt (in. Hg)	Flow Controller Leak Chk	Flow Out mL/min	Flow In mL/min	% RPD
L2407645-01	TRC-IA-01	01655	Flow 4	01/26/24	452329		-	-	-	Pass	10.0	10.0	0
L2407645-01	TRC-IA-01	584	6.0L Can	01/26/24	452329	L2400729-06	Pass	-29.9	-4.3	-	-	-	-
L2407645-02	TRC-IA-02	0779	Flow 4	01/26/24	452329		-	-	-	Pass	10.2	10.4	2
L2407645-02	TRC-IA-02	2486	6.0L Can	01/26/24	452329	L2400169-04	Pass	-29.9	-3.2	-	-	-	-
L2407645-03	TRC-IA-03	0027	Flow 4	01/26/24	452329		-	-	-	Pass	10.0	10.1	1
L2407645-03	TRC-IA-03	3303	6.0L Can	01/26/24	452329	L2400169-03	Pass	-29.9	-2.0	-	-	-	-
L2407645-04	TRC-AA-01	01710	Flow 4	01/26/24	452329		-	-	-	Pass	10.0	10.5	5
L2407645-04	TRC-AA-01	2325	6.0L Can	01/26/24	452329	L2401028-04	Pass	-29.9	-2.0	-	-	-	-

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2400169
Report Date: 02/16/24

Air Canister Certification Results

Lab ID: L2400169-03
 Client ID: CAN 3303 SHELF 36
 Sample Location:
 Matrix: Air
 Analytical Method: 48,TO-15
 Analytical Date: 01/03/24 20:46
 Analyst: BJB

Date Collected: 01/02/24 18:00
 Date Received: 01/03/24
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air								
Chlorodifluoromethane	ND	0.200	--	ND	0.707	--		1
Propylene	ND	0.500	--	ND	0.861	--		1
Propane	ND	0.500	--	ND	0.902	--		1
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Methanol	ND	5.00	--	ND	6.55	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Butane	ND	0.200	--	ND	0.475	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Dichlorofluoromethane	ND	0.200	--	ND	0.842	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acrolein	ND	0.500	--	ND	1.15	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Acetonitrile	ND	0.200	--	ND	0.336	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
Pentane	ND	0.200	--	ND	0.590	--		1
Ethyl ether	ND	0.200	--	ND	0.606	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2400169
Report Date: 02/16/24

Air Canister Certification Results

Lab ID: L2400169-03
 Client ID: CAN 3303 SHELF 36
 Sample Location:

Date Collected: 01/02/24 18:00
 Date Received: 01/03/24
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air								
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	1.00	--	ND	3.52	--		1
Xylenes, total	ND	0.600	--	ND	0.869	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
2,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
Diisopropyl ether	ND	0.200	--	ND	0.836	--		1
tert-Butyl Ethyl Ether	ND	0.200	--	ND	0.836	--		1
1,2-Dichloroethene (total)	ND	1.00	--	ND	1.00	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
1,1-Dichloropropene	ND	0.200	--	ND	0.908	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
tert-Amyl Methyl Ether	ND	0.200	--	ND	0.836	--		1
Dibromomethane	ND	0.200	--	ND	1.42	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2400169
Report Date: 02/16/24

Air Canister Certification Results

Lab ID: L2400169-03 Date Collected: 01/02/24 18:00
 Client ID: CAN 3303 SHELF 36 Date Received: 01/03/24
 Sample Location: Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air								
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Methyl Methacrylate	ND	0.500	--	ND	2.05	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
1,3-Dichloropropane	ND	0.200	--	ND	0.924	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Butyl acetate	ND	0.500	--	ND	2.38	--		1
Octane	ND	0.200	--	ND	0.934	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
1,1,1,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.869	--		1
1,2,3-Trichloropropane	ND	0.200	--	ND	1.21	--		1
Nonane	ND	0.200	--	ND	1.05	--		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2400169
Report Date: 02/16/24

Air Canister Certification Results

Lab ID: L2400169-03
 Client ID: CAN 3303 SHELF 36
 Sample Location:

Date Collected: 01/02/24 18:00
 Date Received: 01/03/24
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air								
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1
2-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
n-Propylbenzene	ND	0.200	--	ND	0.983	--		1
4-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
tert-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Decane	ND	0.200	--	ND	1.16	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2-Dibromo-3-chloropropane	ND	0.200	--	ND	1.93	--		1
Undecane	ND	0.200	--	ND	1.28	--		1
Dodecane	ND	0.200	--	ND	1.39	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Naphthalene	ND	0.200	--	ND	1.05	--		1
1,2,3-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Results	Qualifier	Units	RDL	Dilution Factor
Tentatively Identified Compounds				

No Tentatively Identified Compounds



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2400169
Report Date: 02/16/24

Air Canister Certification Results

Lab ID: L2400169-03 Date Collected: 01/02/24 18:00
 Client ID: CAN 3303 SHELF 36 Date Received: 01/03/24
 Sample Location: Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air								

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	98		60-140
Bromochloromethane	99		60-140
chlorobenzene-d5	96		60-140



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2400169
Report Date: 02/16/24

Air Canister Certification Results

Lab ID: L2400169-03
 Client ID: CAN 3303 SHELF 36
 Sample Location:
 Matrix: Air
 Analytical Method: 48,TO-15-SIM
 Analytical Date: 01/03/24 20:46
 Analyst: BJB

Date Collected: 01/02/24 18:00
 Date Received: 01/03/24
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatiles Organics in Air by SIM								
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,3-Butadiene	ND	0.020	--	ND	0.044	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Chloroethane	ND	0.100	--	ND	0.264	--		1
Acrolein	ND	0.050	--	ND	0.115	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.050	--	ND	0.281	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
Freon-113	ND	0.050	--	ND	0.383	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Chloroform	ND	0.020	--	ND	0.098	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2400169
Report Date: 02/16/24

Air Canister Certification Results

Lab ID: L2400169-03 Date Collected: 01/02/24 18:00
 Client ID: CAN 3303 SHELF 36 Date Received: 01/03/24
 Sample Location: Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM								
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	ND	0.100	--	ND	0.377	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,1,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
Chlorobenzene	ND	0.100	--	ND	0.461	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Styrene	ND	0.020	--	ND	0.085	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
4-Ethyltoluene	ND	0.020	--	ND	0.098	--		1
1,3,5-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
1,2,4-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
Benzyl chloride	ND	0.100	--	ND	0.518	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2400169
Report Date: 02/16/24

Air Canister Certification Results

Lab ID: L2400169-03 Date Collected: 01/02/24 18:00
 Client ID: CAN 3303 SHELF 36 Date Received: 01/03/24
 Sample Location: Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM								
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Naphthalene	ND	0.050	--	ND	0.262	--		1
1,2,3-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	99		60-140
bromochloromethane	100		60-140
chlorobenzene-d5	98		60-140



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2400169
Report Date: 02/16/24

Air Canister Certification Results

Lab ID: L2400169-04
 Client ID: CAN 2486 SHELF 37
 Sample Location:
 Matrix: Air
 Analytical Method: 48,TO-15
 Analytical Date: 01/03/24 21:25
 Analyst: BJB

Date Collected: 01/02/24 18:00
 Date Received: 01/03/24
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air								
Chlorodifluoromethane	ND	0.200	--	ND	0.707	--		1
Propylene	ND	0.500	--	ND	0.861	--		1
Propane	ND	0.500	--	ND	0.902	--		1
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Methanol	ND	5.00	--	ND	6.55	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Butane	ND	0.200	--	ND	0.475	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Dichlorofluoromethane	ND	0.200	--	ND	0.842	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acrolein	ND	0.500	--	ND	1.15	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Acetonitrile	ND	0.200	--	ND	0.336	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
Pentane	ND	0.200	--	ND	0.590	--		1
Ethyl ether	ND	0.200	--	ND	0.606	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2400169
Report Date: 02/16/24

Air Canister Certification Results

Lab ID: L2400169-04 Date Collected: 01/02/24 18:00
 Client ID: CAN 2486 SHELF 37 Date Received: 01/03/24
 Sample Location: Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air								
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	1.00	--	ND	3.52	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
Xylenes, total	ND	0.600	--	ND	0.869	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
2,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
Diisopropyl ether	ND	0.200	--	ND	0.836	--		1
tert-Butyl Ethyl Ether	ND	0.200	--	ND	0.836	--		1
1,2-Dichloroethene (total)	ND	1.00	--	ND	1.00	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
1,1-Dichloropropene	ND	0.200	--	ND	0.908	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
tert-Amyl Methyl Ether	ND	0.200	--	ND	0.836	--		1
Dibromomethane	ND	0.200	--	ND	1.42	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2400169
Report Date: 02/16/24

Air Canister Certification Results

Lab ID: L2400169-04 Date Collected: 01/02/24 18:00
 Client ID: CAN 2486 SHELF 37 Date Received: 01/03/24
 Sample Location: Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air								
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Methyl Methacrylate	ND	0.500	--	ND	2.05	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
1,3-Dichloropropane	ND	0.200	--	ND	0.924	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Butyl acetate	ND	0.500	--	ND	2.38	--		1
Octane	ND	0.200	--	ND	0.934	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
1,1,1,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.869	--		1
1,2,3-Trichloropropane	ND	0.200	--	ND	1.21	--		1
Nonane	ND	0.200	--	ND	1.05	--		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2400169
Report Date: 02/16/24

Air Canister Certification Results

Lab ID: L2400169-04
 Client ID: CAN 2486 SHELF 37
 Sample Location:

Date Collected: 01/02/24 18:00
 Date Received: 01/03/24
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air								
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1
2-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
n-Propylbenzene	ND	0.200	--	ND	0.983	--		1
4-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
tert-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Decane	ND	0.200	--	ND	1.16	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2-Dibromo-3-chloropropane	ND	0.200	--	ND	1.93	--		1
Undecane	ND	0.200	--	ND	1.28	--		1
Dodecane	ND	0.200	--	ND	1.39	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Naphthalene	ND	0.200	--	ND	1.05	--		1
1,2,3-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Results	Qualifier	Units	RDL	Dilution Factor
Tentatively Identified Compounds				

No Tentatively Identified Compounds



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2400169
Report Date: 02/16/24

Air Canister Certification Results

Lab ID: L2400169-04 Date Collected: 01/02/24 18:00
 Client ID: CAN 2486 SHELF 37 Date Received: 01/03/24
 Sample Location: Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air								

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	98		60-140
Bromochloromethane	100		60-140
chlorobenzene-d5	96		60-140



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2400169
Report Date: 02/16/24

Air Canister Certification Results

Lab ID: L2400169-04
 Client ID: CAN 2486 SHELF 37
 Sample Location:
 Matrix: Air
 Analytical Method: 48,TO-15-SIM
 Analytical Date: 01/03/24 21:25
 Analyst: BJB

Date Collected: 01/02/24 18:00
 Date Received: 01/03/24
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatiles Organics in Air by SIM								
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,3-Butadiene	ND	0.020	--	ND	0.044	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Chloroethane	ND	0.100	--	ND	0.264	--		1
Acrolein	ND	0.050	--	ND	0.115	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.050	--	ND	0.281	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
Freon-113	ND	0.050	--	ND	0.383	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Chloroform	ND	0.020	--	ND	0.098	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2400169
Report Date: 02/16/24

Air Canister Certification Results

Lab ID: L2400169-04 Date Collected: 01/02/24 18:00
 Client ID: CAN 2486 SHELF 37 Date Received: 01/03/24
 Sample Location: Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM								
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	ND	0.100	--	ND	0.377	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,1,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
Chlorobenzene	ND	0.100	--	ND	0.461	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Styrene	ND	0.020	--	ND	0.085	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
4-Ethyltoluene	ND	0.020	--	ND	0.098	--		1
1,3,5-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
1,2,4-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
Benzyl chloride	ND	0.100	--	ND	0.518	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2400169
Report Date: 02/16/24

Air Canister Certification Results

Lab ID: L2400169-04 Date Collected: 01/02/24 18:00
 Client ID: CAN 2486 SHELF 37 Date Received: 01/03/24
 Sample Location: Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM								
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Naphthalene	ND	0.050	--	ND	0.262	--		1
1,2,3-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	99		60-140
bromochloromethane	100		60-140
chlorobenzene-d5	99		60-140



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2400729
Report Date: 02/16/24

Air Canister Certification Results

Lab ID: L2400729-06
 Client ID: CAN 584 SHELF 36
 Sample Location:
 Matrix: Air
 Analytical Method: 48,TO-15
 Analytical Date: 01/06/24 18:47
 Analyst: RAY

Date Collected: 01/05/24 12:00
 Date Received: 01/05/24
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air								
Chlorodifluoromethane	ND	0.200	--	ND	0.707	--		1
Propylene	ND	0.500	--	ND	0.861	--		1
Propane	ND	0.500	--	ND	0.902	--		1
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Methanol	ND	5.00	--	ND	6.55	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Butane	ND	0.200	--	ND	0.475	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Dichlorofluoromethane	ND	0.200	--	ND	0.842	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acrolein	ND	0.500	--	ND	1.15	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Acetonitrile	ND	0.200	--	ND	0.336	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
Pentane	ND	0.200	--	ND	0.590	--		1
Ethyl ether	ND	0.200	--	ND	0.606	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2400729
Report Date: 02/16/24

Air Canister Certification Results

Lab ID: L2400729-06 Date Collected: 01/05/24 12:00
 Client ID: CAN 584 SHELF 36 Date Received: 01/05/24
 Sample Location: Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air								
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	1.00	--	ND	3.52	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
Xylenes, total	ND	0.600	--	ND	0.869	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
2,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
Diisopropyl ether	ND	0.200	--	ND	0.836	--		1
tert-Butyl Ethyl Ether	ND	0.200	--	ND	0.836	--		1
1,2-Dichloroethene (total)	ND	1.00	--	ND	1.00	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
1,1-Dichloropropene	ND	0.200	--	ND	0.908	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
tert-Amyl Methyl Ether	ND	0.200	--	ND	0.836	--		1
Dibromomethane	ND	0.200	--	ND	1.42	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2400729
Report Date: 02/16/24

Air Canister Certification Results

Lab ID: L2400729-06 Date Collected: 01/05/24 12:00
 Client ID: CAN 584 SHELF 36 Date Received: 01/05/24
 Sample Location: Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air								
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Methyl Methacrylate	ND	0.500	--	ND	2.05	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
1,3-Dichloropropane	ND	0.200	--	ND	0.924	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Butyl acetate	ND	0.500	--	ND	2.38	--		1
Octane	ND	0.200	--	ND	0.934	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
1,1,1,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.869	--		1
1,2,3-Trichloropropane	ND	0.200	--	ND	1.21	--		1
Nonane	ND	0.200	--	ND	1.05	--		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2400729
Report Date: 02/16/24

Air Canister Certification Results

Lab ID: L2400729-06
 Client ID: CAN 584 SHELF 36
 Sample Location:

Date Collected: 01/05/24 12:00
 Date Received: 01/05/24
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air								
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1
2-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
n-Propylbenzene	ND	0.200	--	ND	0.983	--		1
4-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
tert-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Decane	ND	0.200	--	ND	1.16	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2-Dibromo-3-chloropropane	ND	0.200	--	ND	1.93	--		1
Undecane	ND	0.200	--	ND	1.28	--		1
Dodecane	ND	0.200	--	ND	1.39	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Naphthalene	ND	0.200	--	ND	1.05	--		1
1,2,3-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Results	Qualifier	Units	RDL	Dilution Factor
Tentatively Identified Compounds				

No Tentatively Identified Compounds



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2400729
Report Date: 02/16/24

Air Canister Certification Results

Lab ID: L2400729-06 Date Collected: 01/05/24 12:00
 Client ID: CAN 584 SHELF 36 Date Received: 01/05/24
 Sample Location: Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air								

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	97		60-140
Bromochloromethane	97		60-140
chlorobenzene-d5	94		60-140



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2400729
Report Date: 02/16/24

Air Canister Certification Results

Lab ID: L2400729-06
 Client ID: CAN 584 SHELF 36
 Sample Location:
 Matrix: Air
 Analytical Method: 48,TO-15-SIM
 Analytical Date: 01/06/24 18:47
 Analyst: RAY

Date Collected: 01/05/24 12:00
 Date Received: 01/05/24
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatiles Organics in Air by SIM								
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,3-Butadiene	ND	0.020	--	ND	0.044	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Chloroethane	ND	0.100	--	ND	0.264	--		1
Acrolein	ND	0.050	--	ND	0.115	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.050	--	ND	0.281	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
Freon-113	ND	0.050	--	ND	0.383	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Chloroform	ND	0.020	--	ND	0.098	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2400729
Report Date: 02/16/24

Air Canister Certification Results

Lab ID: L2400729-06 Date Collected: 01/05/24 12:00
 Client ID: CAN 584 SHELF 36 Date Received: 01/05/24
 Sample Location: Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM								
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	ND	0.100	--	ND	0.377	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,1,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
Chlorobenzene	ND	0.100	--	ND	0.461	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Styrene	ND	0.020	--	ND	0.085	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
4-Ethyltoluene	ND	0.020	--	ND	0.098	--		1
1,3,5-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
1,2,4-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
Benzyl chloride	ND	0.100	--	ND	0.518	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2400729
Report Date: 02/16/24

Air Canister Certification Results

Lab ID: L2400729-06 Date Collected: 01/05/24 12:00
 Client ID: CAN 584 SHELF 36 Date Received: 01/05/24
 Sample Location: Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM								
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Naphthalene	ND	0.050	--	ND	0.262	--		1
1,2,3-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	97		60-140
bromochloromethane	97		60-140
chlorobenzene-d5	96		60-140



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2401028
Report Date: 02/16/24

Air Canister Certification Results

Lab ID: L2401028-04
 Client ID: CAN 2325 SHELF 49
 Sample Location:
 Matrix: Air
 Analytical Method: 48,TO-15
 Analytical Date: 01/08/24 23:54
 Analyst: KJD

Date Collected: 01/05/24 18:00
 Date Received: 01/08/24
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air								
Chlorodifluoromethane	ND	0.200	--	ND	0.707	--		1
Propylene	ND	0.500	--	ND	0.861	--		1
Propane	ND	0.500	--	ND	0.902	--		1
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Methanol	ND	5.00	--	ND	6.55	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Butane	ND	0.200	--	ND	0.475	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Dichlorofluoromethane	ND	0.200	--	ND	0.842	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acrolein	ND	0.500	--	ND	1.15	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Acetonitrile	ND	0.200	--	ND	0.336	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
Pentane	ND	0.200	--	ND	0.590	--		1
Ethyl ether	ND	0.200	--	ND	0.606	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2401028
Report Date: 02/16/24

Air Canister Certification Results

Lab ID: L2401028-04 Date Collected: 01/05/24 18:00
 Client ID: CAN 2325 SHELF 49 Date Received: 01/08/24
 Sample Location: Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air								
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	1.00	--	ND	3.52	--		1
Xylenes, total	ND	0.600	--	ND	0.869	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
2,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
Diisopropyl ether	ND	0.200	--	ND	0.836	--		1
tert-Butyl Ethyl Ether	ND	0.200	--	ND	0.836	--		1
1,2-Dichloroethene (total)	ND	1.00	--	ND	1.00	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
1,1-Dichloropropene	ND	0.200	--	ND	0.908	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
tert-Amyl Methyl Ether	ND	0.200	--	ND	0.836	--		1
Dibromomethane	ND	0.200	--	ND	1.42	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2401028
Report Date: 02/16/24

Air Canister Certification Results

Lab ID: L2401028-04 Date Collected: 01/05/24 18:00
 Client ID: CAN 2325 SHELF 49 Date Received: 01/08/24
 Sample Location: Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air								
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Methyl Methacrylate	ND	0.500	--	ND	2.05	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
1,3-Dichloropropane	ND	0.200	--	ND	0.924	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Butyl acetate	ND	0.500	--	ND	2.38	--		1
Octane	ND	0.200	--	ND	0.934	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
1,1,1,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.869	--		1
1,2,3-Trichloropropane	ND	0.200	--	ND	1.21	--		1
Nonane	ND	0.200	--	ND	1.05	--		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2401028
Report Date: 02/16/24

Air Canister Certification Results

Lab ID: L2401028-04
 Client ID: CAN 2325 SHELF 49
 Sample Location:

Date Collected: 01/05/24 18:00
 Date Received: 01/08/24
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air								
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1
2-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
n-Propylbenzene	ND	0.200	--	ND	0.983	--		1
4-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
tert-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Decane	ND	0.200	--	ND	1.16	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2-Dibromo-3-chloropropane	ND	0.200	--	ND	1.93	--		1
Undecane	ND	0.200	--	ND	1.28	--		1
Dodecane	ND	0.200	--	ND	1.39	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Naphthalene	ND	0.200	--	ND	1.05	--		1
1,2,3-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Results	Qualifier	Units	RDL	Dilution Factor
Tentatively Identified Compounds				

No Tentatively Identified Compounds



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2401028
Report Date: 02/16/24

Air Canister Certification Results

Lab ID: L2401028-04 Date Collected: 01/05/24 18:00
 Client ID: CAN 2325 SHELF 49 Date Received: 01/08/24
 Sample Location: Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air								

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	98		60-140
Bromochloromethane	100		60-140
chlorobenzene-d5	98		60-140



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2401028
Report Date: 02/16/24

Air Canister Certification Results

Lab ID: L2401028-04
 Client ID: CAN 2325 SHELF 49
 Sample Location:
 Matrix: Air
 Analytical Method: 48,TO-15-SIM
 Analytical Date: 01/08/24 23:54
 Analyst: KJD

Date Collected: 01/05/24 18:00
 Date Received: 01/08/24
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatiles Organics in Air by SIM								
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,3-Butadiene	ND	0.020	--	ND	0.044	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Chloroethane	ND	0.100	--	ND	0.264	--		1
Acrolein	ND	0.050	--	ND	0.115	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.050	--	ND	0.281	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
Freon-113	ND	0.050	--	ND	0.383	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Chloroform	ND	0.020	--	ND	0.098	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2401028
Report Date: 02/16/24

Air Canister Certification Results

Lab ID: L2401028-04
 Client ID: CAN 2325 SHELF 49
 Sample Location:

Date Collected: 01/05/24 18:00
 Date Received: 01/08/24
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatiles Organics in Air by SIM								
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	ND	0.100	--	ND	0.377	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,1,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
Chlorobenzene	ND	0.100	--	ND	0.461	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Styrene	ND	0.020	--	ND	0.085	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
4-Ethyltoluene	ND	0.020	--	ND	0.098	--		1
1,3,5-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
1,2,4-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
Benzyl chloride	ND	0.100	--	ND	0.518	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2401028
Report Date: 02/16/24

Air Canister Certification Results

Lab ID: L2401028-04
 Client ID: CAN 2325 SHELF 49
 Sample Location:

Date Collected: 01/05/24 18:00
 Date Received: 01/08/24
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM								
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Naphthalene	ND	0.050	--	ND	0.262	--		1
1,2,3-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	98		60-140
bromochloromethane	99		60-140
chlorobenzene-d5	97		60-140



Organics

Volatile Organics in Air TO-15 Low Level

Volatiles QC Summary

Lab Duplicate Sample Summary

Form 3

Air Volatiles

Client	: TRC Environmental Corp	Lab Number	: L2407645
Project Name	: K710 IAQ	Project Number	: 457205
Client Sample ID	: TRC-IA-03	Matrix (Level)	: AIR (LOW)
Lab Sample ID	: L2407645-03	Analysis Date	: 02/15/24 22:57
Lab File ID	: R1738657	DUP File ID	: r1738658
Dup Sample ID	: WG1885731-5	DUP Analysis Date	: 02/15/24 23:36

Parameter	Sample Concentration (ppbV)	Duplicate Concentration (ppbV)	RPD	RPD Limit
Dichlorodifluoromethane	0.512	0.520	2	25
Chloromethane	0.502	0.514	2	25
Freon-114	ND	ND	NC	25
1,3-Butadiene	ND	ND	NC	25
Bromomethane	ND	ND	NC	25
Chloroethane	ND	ND	NC	25
Ethanol	7.54	8.20	8	25
Vinyl bromide	ND	ND	NC	25
Acetone	2.43	2.40	1	25
Trichlorofluoromethane	0.239	0.240	0	25
Isopropanol	0.775	0.755	3	25
Tertiary butyl Alcohol	ND	ND	NC	25
Methylene chloride	ND	0.603	NC	25
3-Chloropropene	ND	ND	NC	25
Carbon disulfide	ND	ND	NC	25
Freon-113	ND	ND	NC	25
trans-1,2-Dichloroethene	ND	ND	NC	25
1,1-Dichloroethane	ND	ND	NC	25
Methyl tert butyl ether	ND	ND	NC	25
2-Butanone	ND	ND	NC	25
Ethyl Acetate	ND	ND	NC	25
Chloroform	ND	ND	NC	25
Tetrahydrofuran	ND	ND	NC	25
1,2-Dichloroethane	ND	ND	NC	25
n-Hexane	ND	ND	NC	25



Lab Duplicate Sample Summary

Form 3

Air Volatiles

Client : TRC Environmental Corp	Lab Number : L2407645
Project Name : K710 IAQ	Project Number : 457205
Client Sample ID : TRC-IA-03	Matrix (Level) : AIR (LOW)
Lab Sample ID : L2407645-03	Analysis Date : 02/15/24 22:57
Lab File ID : R1738657	DUP File ID : r1738658
Dup Sample ID : WG1885731-5	DUP Analysis Date : 02/15/24 23:36

Parameter	Sample Concentration (ppbV)	Duplicate Concentration (ppbV)	RPD	RPD Limit
Benzene	ND	ND	NC	25
Cyclohexane	ND	ND	NC	25
1,2-Dichloropropane	ND	ND	NC	25
Bromodichloromethane	ND	ND	NC	25
1,4-Dioxane	ND	ND	NC	25
2,2,4-Trimethylpentane	ND	ND	NC	25
Heptane	ND	ND	NC	25
cis-1,3-Dichloropropene	ND	ND	NC	25
4-Methyl-2-pentanone	ND	ND	NC	25
trans-1,3-Dichloropropene	ND	ND	NC	25
1,1,2-Trichloroethane	ND	ND	NC	25
Toluene	0.260	0.255	2	25
2-Hexanone	ND	ND	NC	25
Dibromochloromethane	ND	ND	NC	25
1,2-Dibromoethane	ND	ND	NC	25
Chlorobenzene	ND	ND	NC	25
Ethylbenzene	ND	ND	NC	25
p/m-Xylene	ND	ND	NC	25
Bromoform	ND	ND	NC	25
Styrene	ND	ND	NC	25
1,1,2,2-Tetrachloroethane	ND	ND	NC	25
o-Xylene	ND	ND	NC	25
4-Ethyltoluene	ND	ND	NC	25
1,3,5-Trimethylbenzene	ND	ND	NC	25
1,2,4-Trimethylbenzene	ND	ND	NC	25



Lab Duplicate Sample Summary

Form 3

Air Volatiles

Client	: TRC Environmental Corp	Lab Number	: L2407645
Project Name	: K710 IAQ	Project Number	: 457205
Client Sample ID	: TRC-IA-03	Matrix (Level)	: AIR (LOW)
Lab Sample ID	: L2407645-03	Analysis Date	: 02/15/24 22:57
Lab File ID	: R1738657	DUP File ID	: r1738658
Dup Sample ID	: WG1885731-5	DUP Analysis Date	: 02/15/24 23:36

Parameter	Sample Concentration (ppbV)	Duplicate Concentration (ppbV)	RPD	RPD Limit
Benzyl chloride	ND	ND	NC	25
1,3-Dichlorobenzene	ND	ND	NC	25
1,4-Dichlorobenzene	ND	ND	NC	25
1,2-Dichlorobenzene	ND	ND	NC	25
1,2,4-Trichlorobenzene	ND	ND	NC	25
Hexachlorobutadiene	ND	ND	NC	25



Laboratory Control Sample Summary

Form 3

Air Volatiles

Client : TRC Environmental Corp	Lab Number : L2407645
Project Name : K710 IAQ	Project Number : 457205
Matrix (Level) : AIR (LOW)	
LCS Sample ID : WG1885731-3	Analysis Date : 02/15/24 15:25
LCS Sample ID :	File ID : r1738649
	File ID :

Parameter	Laboratory Control Sample			Laboratory Control Duplicate			RPD	Recovery Limits	RPD Limit
	True (ppbV)	Found (ppbV)	%R	True (ppbV)	Found (ppbV)	%R			
Dichlorodifluoromethane	10	12.0	120				-	70-130	-
Chloromethane	10	9.60	96				-	70-130	-
Freon-114	10	11.7	117				-	70-130	-
Vinyl chloride	10	10.9	109				-	70-130	-
1,3-Butadiene	10	10.6	106				-	70-130	-
Bromomethane	10	11.5	115				-	70-130	-
Chloroethane	10	11.2	112				-	70-130	-
Ethanol	50	56.8	114				-	40-160	-
Vinyl bromide	10	11.0	110				-	70-130	-
Acetone	50	53.4	107				-	40-160	-
Trichlorofluoromethane	10	12.9	129				-	70-130	-
Isopropanol	25	22.1	88				-	40-160	-
1,1-Dichloroethene	10	12.1	121				-	70-130	-
Tertiary butyl Alcohol	10	9.98	100				-	70-130	-
Methylene chloride	10	12.5	125				-	70-130	-
3-Chloropropene	10	11.6	116				-	70-130	-
Carbon disulfide	10	10.8	108				-	70-130	-
Freon-113	10	12.0	120				-	70-130	-
trans-1,2-Dichloroethene	10	11.6	116				-	70-130	-
1,1-Dichloroethane	10	11.6	116				-	70-130	-
Methyl tert butyl ether	10	10.4	104				-	70-130	-
2-Butanone	10	11.2	112				-	70-130	-
cis-1,2-Dichloroethene	10	11.7	117				-	70-130	-
Ethyl Acetate	10	12.0	120				-	70-130	-
Chloroform	10	12.1	121				-	70-130	-
Tetrahydrofuran	10	11.0	110				-	70-130	-



Laboratory Control Sample Summary Form 3 Air Volatiles

Client : TRC Environmental Corp Lab Number : L2407645
 Project Name : K710 IAQ Project Number : 457205
 Matrix (Level) : AIR (LOW)
 LCS Sample ID : WG1885731-3 Analysis Date : 02/15/24 15:25 File ID : r1738649
 LCSD Sample ID : Analysis Date : File ID :

Parameter	Laboratory Control Sample			Laboratory Control Duplicate			RPD	Recovery Limits	RPD Limit
	True (ppbV)	Found (ppbV)	%R	True (ppbV)	Found (ppbV)	%R			
1,2-Dichloroethane	10	12.5	125				-	70-130	-
n-Hexane	10	11.5	115				-	70-130	-
1,1,1-Trichloroethane	10	12.0	120				-	70-130	-
Benzene	10	10.5	105				-	70-130	-
Carbon tetrachloride	10	13.2	132 Q				-	70-130	-
Cyclohexane	10	11.4	114				-	70-130	-
1,2-Dichloropropane	10	11.4	114				-	70-130	-
Bromodichloromethane	10	13.2	132 Q				-	70-130	-
1,4-Dioxane	10	11.7	117				-	70-130	-
Trichloroethene	10	11.7	117				-	70-130	-
2,2,4-Trimethylpentane	10	11.2	112				-	70-130	-
Heptane	10	11.4	114				-	70-130	-
cis-1,3-Dichloropropene	10	10.5	105				-	70-130	-
4-Methyl-2-pentanone	10	11.4	114				-	70-130	-
trans-1,3-Dichloropropene	10	10.7	107				-	70-130	-
1,1,2-Trichloroethane	10	11.7	117				-	70-130	-
Toluene	10	10.7	107				-	70-130	-
2-Hexanone	10	10.7	107				-	70-130	-
Dibromochloromethane	10	14.2	142 Q				-	70-130	-
1,2-Dibromoethane	10	11.1	111				-	70-130	-
Tetrachloroethene	10	11.0	110				-	70-130	-
Chlorobenzene	10	10.8	108				-	70-130	-
Ethylbenzene	10	11.0	110				-	70-130	-
p/m-Xylene	20	22.6	113				-	70-130	-
Bromoform	10	14.4	144 Q				-	70-130	-
Styrene	10	10.8	108				-	70-130	-

Laboratory Control Sample Summary

Form 3

Air Volatiles

Client : TRC Environmental Corp	Lab Number : L2407645
Project Name : K710 IAQ	Project Number : 457205
Matrix (Level) : AIR (LOW)	
LCS Sample ID : WG1885731-3	Analysis Date : 02/15/24 15:25
LCSD Sample ID :	File ID : r1738649
	File ID :

Parameter	Laboratory Control Sample			Laboratory Control Duplicate			RPD	Recovery Limits	RPD Limit
	True (ppbV)	Found (ppbV)	%R	True (ppbV)	Found (ppbV)	%R			
1,1,2,2-Tetrachloroethane	10	11.9	119				-	70-130	-
o-Xylene	10	11.5	115				-	70-130	-
4-Ethyltoluene	10	11.5	115				-	70-130	-
1,3,5-Trimethylbenzene	10	11.1	111				-	70-130	-
1,2,4-Trimethylbenzene	10	11.0	110				-	70-130	-
Benzyl chloride	10	11.0	110				-	70-130	-
1,3-Dichlorobenzene	10	11.9	119				-	70-130	-
1,4-Dichlorobenzene	10	11.7	117				-	70-130	-
1,2-Dichlorobenzene	10	11.4	114				-	70-130	-
1,2,4-Trichlorobenzene	10	9.52	95				-	70-130	-
Hexachlorobutadiene	10	10.9	109				-	70-130	-



**Method Blank Summary
Form 4
Air Volatiles**

Client	: TRC Environmental Corp	Lab Number	: L2407645
Project Name	: K710 IAQ	Project Number	: 457205
Lab Sample ID	: WG1885731-4	Lab File ID	: r1738651
Instrument ID	: AIRLAB17		
Matrix	: AIR	Analysis Date	: 02/15/24 19:01

Client Sample No.	Lab Sample ID	Analysis Date
WG1885731-3LCS	WG1885731-3	02/15/24 15:25
TRC-AA-01	L2407645-04	02/15/24 20:20
TRC-IA-01	L2407645-01	02/15/24 20:59
TRC-IA-02	L2407645-02	02/15/24 21:39
TRC-IA-03	L2407645-03	02/15/24 22:57
TRC-IA-03DUP	WG1885731-5	02/15/24 23:36



**Instrument Performance Check (Tune) Summary
Form 5
Air Volatiles
Bromofluorobenzene (BFB)**

Client : TRC Environmental Corp	Lab Number : L2407645
Project Name : K710 IAQ	Project Number : 457205
Instrument ID : AIRLAB17	Analysis Date : 01/07/24 19:44
Tune Standard : WG1872080-1	Tune File ID : r1737672_tune

m/e	Ion Abundance Criteria	%Relative Abundance
50	8.0 - 40.0% of mass 95	16.8
75	30.0 - 66.0% of mass 95	40.4
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.7
173	Less than 2.0% of mass 174	0.4 (.6)1
174	50.0 - 120.0% of mass 95	68.5
175	4.0 - 9.0% of mass 174	4.8 (7)1
176	93.0 - 101% of mass 174	66.2 (96.7)1
177	5.0 - 9.0% of mass 176	4.3 (6.5)2

1-Value is % of mass 174 2-Value is % of mass 176

This Check Applies to the following Samples, MS, MSD, Blanks, and Standards:

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
STD0.2	R1782626-1	R1737676	01/07/24 22:14
STD0.5	R1782626-2	R1737677	01/07/24 22:54
STD1.0	R1782626-3	R1737678	01/07/24 23:36
STD5.0	R1782626-4	R1737679	01/08/24 00:15
STD10.0	R1782626-5	R1737680	01/08/24 00:56
STD20	R1782626-6	R1737681	01/08/24 01:35
STD50	R1782626-7	R1737682	01/08/24 02:14
STD100	R1782626-8	R1737683	01/08/24 02:55
ICV QUANT	R1782626-9	R1737686	01/08/24 13:00



**Instrument Performance Check (Tune) Summary
Form 5
Air Volatiles
Bromofluorobenzene (BFB)**

Client	: TRC Environmental Corp	Lab Number	: L2407645
Project Name	: K710 IAQ	Project Number	: 457205
Instrument ID	: AIRLAB17	Analysis Date	: 02/15/24 14:00
Tune Standard	: WG1885731-1	Tune File ID	: r1738647_tune

m/e	Ion Abundance Criteria	%Relative Abundance
50	8.0 - 40.0% of mass 95	16.8
75	30.0 - 66.0% of mass 95	39.9
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.6
173	Less than 2.0% of mass 174	0.5 (.7)1
174	50.0 - 120.0% of mass 95	66.2
175	4.0 - 9.0% of mass 174	4.6 (7)1
176	93.0 - 101% of mass 174	64.1 (96.7)1
177	5.0 - 9.0% of mass 176	4.2 (6.6)2

1-Value is % of mass 174 2-Value is % of mass 176

This Check Applies to the following Samples, MS, MSD, Blanks, and Standards:

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
WG1885731-2CCAL	WG1885731-2	R1738648	02/15/24 14:42
WG1885731-3LCS	WG1885731-3	R1738649	02/15/24 15:25
WG1885731-4BLANK	WG1885731-4	R1738651	02/15/24 19:01
TRC-AA-01	L2407645-04	R1738653	02/15/24 20:20
TRC-IA-01	L2407645-01	R1738654	02/15/24 20:59
TRC-IA-02	L2407645-02	R1738655	02/15/24 21:39
TRC-IA-03	L2407645-03	R1738657	02/15/24 22:57
WG1885731-5DUP	WG1885731-5	R1738658	02/15/24 23:36



Internal Standard Area and RT Summary

Form 8a

Air Volatiles

Client : TRC Environmental Corp	Lab Number : L2407645
Project Name : K710 IAQ	Project Number : 457205
Instrument ID : AIRLAB17	Analysis Date : 02/15/24 14:42:00
Sample No : WG1885731-2	Lab File ID : R1738648

	Bromochloromethane		1,4-Difluorobenzene		Chlorobenzene-d5	
	Area	RT	Area	RT	Area	RT
WG1885731-2	370847	8.83	986523	11.07	142298	15.83
Upper Limit	519186	9.16	1381132	11.40	199217	16.16
Lower Limit	222508	8.50	591914	10.74	85379	15.50
Sample ID						
WG1885731-3 LCS	325173	8.84	861372	11.08	124696	15.83
WG1885731-4 BLANK	306517	8.85	792067	11.09	113042	15.85
TRC-AA-01	360094	8.85	933630	11.09	136935	15.84
TRC-IA-01	366982	8.85	969372	11.08	139559	15.84
TRC-IA-02	359235	8.85	955576	11.09	138542	15.85
TRC-IA-03	356088	8.86	930326	11.09	134770	15.85
TRC-IA-03 DUP	347800	8.86	892228	11.10	130556	15.85

Area Upper Limit = +40% of internal standard area
 Area Lower Limit = - 40% of internal standard area

RT Upper Limit = +0.33 minutes of internal standard RT
 RT Lower Limit = -0.33 minutes of internal standard RT

* Values outside of QC limits





Date Created: 01/09/24
 Created By: Jason Hebert
 File: PM15856-1
 Page: 1

Volatile Organics in Air: TO-15 (AIR)

Holding Time: 30 days
 Container/Sample Preservation: 1 - Canister - 2.7 Liter

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria
1,1,1-Trichloroethane	71-55-6	0.2	0.0614	ppbV	70-130			25	25	
1,1,2,2-Tetrachloroethane	79-34-5	0.2	0.052	ppbV	70-130			25	25	
1,1,2-Trichloroethane	79-00-5	0.2	0.0582	ppbV	70-130			25	25	
1,1-Dichloroethane	75-34-3	0.2	0.0568	ppbV	70-130			25	25	
1,1-Dichloroethene	75-35-4	0.2	0.0568	ppbV	70-130			25	25	
1,2,3-Trimethylbenzene	526-73-8	0.2	0.0576	ppbV	70-130			25	25	
1,2,4-Trichlorobenzene	120-82-1	0.2	0.1	ppbV	70-130			25	25	
1,2,4-Trimethylbenzene	95-63-6	0.2	0.0577	ppbV	70-130			25	25	
1,2,4,5-Tetramethylbenzene	95-93-2	0.2	0.135	ppbV	70-130			25	25	
1,2-Dibromoethane	106-93-4	0.2	0.0544	ppbV	70-130			25	25	
1,2-Dichlorobenzene	95-50-1	0.2	0.0619	ppbV	70-130			25	25	
1,2-Dichloroethane	107-06-2	0.2	0.0787	ppbV	70-130			25	25	
1,2-Dichloropropane	78-87-5	0.2	0.0631	ppbV	70-130			25	25	
1,3,5-Trimethylbenzene	108-67-8	0.2	0.06	ppbV	70-130			25	25	
1,3-Butadiene	106-99-0	0.2	0.0619	ppbV	70-130			25	25	
1,3-Dichlorobenzene	541-73-1	0.2	0.0777	ppbV	70-130			25	25	
1,4-Dichlorobenzene	106-46-7	0.2	0.0826	ppbV	70-130			25	25	
1,4-Dioxane	123-91-1	0.2	0.0538	ppbV	70-130			25	25	
2,2,4-Trimethylpentane	540-84-1	0.2	0.0692	ppbV	70-130			25	25	
2-Butanone	78-93-3	0.5	0.099	ppbV	70-130			25	25	
2-Hexanone	591-78-6	0.2	0.0912	ppbV	70-130			25	25	
2-Methylthiophene	554-14-3	0.2	0.0622	ppbV	70-130			25	25	
3-Methylthiophene	616-44-4	0.2	0.0634	ppbV	70-130			25	25	
3-Chloropropene	107-05-1	0.2	0.086	ppbV	70-130			25	25	
2-Ethylthiophene	872-55-9	0.2	0.0612	ppbV	70-130			25	25	
4-Ethyltoluene	622-96-8	0.2	0.0554	ppbV	70-130			25	25	
Acetone	67-64-1	1	0.515	ppbV	40-160			25	25	
Benzene	71-43-2	0.2	0.0643	ppbV	70-130			25	25	
Benzyl chloride	100-44-7	0.2	0.0939	ppbV	70-130			25	25	
Benzothiophene	95-15-8	0.5	0.273	ppbV	70-130			25	25	
Bromodichloromethane	75-27-4	0.2	0.0689	ppbV	70-130			25	25	
Bromoform	75-25-2	0.2	0.0596	ppbV	70-130			25	25	
Bromomethane	74-83-9	0.2	0.0547	ppbV	70-130			25	25	
Carbon disulfide	75-15-0	0.2	0.0465	ppbV	70-130			25	25	
Carbon tetrachloride	56-23-5	0.2	0.0686	ppbV	70-130			25	25	
Chlorobenzene	108-90-7	0.2	0.0516	ppbV	70-130			25	25	
Chloroethane	75-00-3	0.2	0.0649	ppbV	70-130			25	25	
Chloroform	67-66-3	0.2	0.0552	ppbV	70-130			25	25	
Chloromethane	74-87-3	0.2	0.0576	ppbV	70-130			25	25	
cis-1,2-Dichloroethene	156-59-2	0.2	0.0595	ppbV	70-130			25	25	
cis-1,3-Dichloropropene	10061-01-5	0.2	0.0674	ppbV	70-130			25	25	
Cyclohexane	110-82-7	0.2	0.0728	ppbV	70-130			25	25	

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
 Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.



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Date Created: 01/09/24
 Created By: Jason Hebert
 File: PM15856-1
 Page: 2

Volatile Organics in Air: TO-15 (AIR)

Holding Time: 30 days
 Container/Sample Preservation: 1 - Canister - 2.7 Liter

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria
Dibromochloromethane	124-48-1	0.2	0.0566	ppbV	70-130			25	25	
Dichlorodifluoromethane	75-71-8	0.2	0.0757	ppbV	70-130			25	25	
Ethyl Alcohol	GCDAl06	5	1.74	ppbV	40-160			25	25	
Ethyl Acetate	141-78-6	0.5	0.297	ppbV	70-130			25	25	
Ethylbenzene	100-41-4	0.2	0.0575	ppbV	70-130			25	25	
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	0.2	0.0506	ppbV	70-130			25	25	
1,2-Dichloro-1,1,2,2-tetrafluoroethane	76-14-2	0.2	0.0504	ppbV	70-130			25	25	
Hexachlorobutadiene	87-68-3	0.2	0.0607	ppbV	70-130			25	25	
iso-Propyl Alcohol	67-63-0	0.5	0.272	ppbV	40-160			25	25	
Methylene chloride	75-09-2	0.5	0.125	ppbV	70-130			25	25	
4-Methyl-2-pentanone	108-10-1	0.5	0.19	ppbV	70-130			25	25	
Methyl tert butyl ether	1634-04-4	0.2	0.045	ppbV	70-130			25	25	
Methyl Methacrylate	80-62-6	0.5	0.226	ppbV	40-160			25	25	
p/m-Xylene	179601-23-1	0.4	0.125	ppbV	70-130			25	25	
o-Xylene	95-47-6	0.2	0.0621	ppbV	70-130			25	25	
Xylene (Total)	1330-20-7	0.2	0.0621	ppbV				25	25	
Heptane	142-82-5	0.2	0.0828	ppbV	70-130			25	25	
n-Heptane	142-82-5	0.2	0.0828	ppbV	70-130			25	25	
n-Hexane	110-54-3	0.2	0.0743	ppbV	70-130			25	25	
Propylene	115-07-1	0.5	0.135	ppbV	70-130			25	25	
Styrene	100-42-5	0.2	0.0596	ppbV	70-130			25	25	
Tetrachloroethene	127-18-4	0.2	0.0627	ppbV	70-130			25	25	
Thiophene	110-02-1	0.2	0.052	ppbV	70-130			25	25	
Tetrahydrofuran	109-99-9	0.5	0.117	ppbV	70-130			25	25	
Toluene	108-88-3	0.2	0.0867	ppbV	70-130			25	25	
trans-1,2-Dichloroethene	156-60-5	0.2	0.0755	ppbV	70-130			25	25	
1,2-Dichloroethene (total)	540-59-0	0.2	0.0595	ppbV				25	25	
trans-1,3-Dichloropropene	10061-02-6	0.2	0.0783	ppbV	70-130			25	25	
1,3-Dichloropropene, Total	542-75-6	0.2	0.0674	ppbV				25	25	
Trichloroethene	79-01-6	0.2	0.0548	ppbV	70-130			25	25	
Trichlorofluoromethane	75-69-4	0.2	0.0787	ppbV	70-130			25	25	
Vinyl acetate	108-05-4	1	0.323	ppbV	70-130			25	25	
Vinyl bromide	593-60-2	0.2	0.0722	ppbV	70-130			25	25	
Vinyl chloride	75-01-4	0.2	0.0582	ppbV	70-130			25	25	
Naphthalene	91-20-3	0.2	0.078	ppbV	70-130			25	25	
Total HC As Hexane	NONE	10	0.0743	ppbV	70-130			25	25	
Total VOCs As Toluene	NONE	10	0.0867	ppbV	70-130			25	25	
Propane	74-98-6	0.5	0.152	ppbV	70-130			25	25	
Acrylonitrile	107-13-1	0.5	0.0894	ppbV	70-130			25	25	
Acrolein	107-02-8	0.5	0.149	ppbV	60-113			25	25	
1,1,1,2-Tetrachloroethane	630-20-6	0.2	0.0508	ppbV	70-130			25	25	
Isopropylbenzene	98-82-8	0.2	0.0621	ppbV	70-130			25	25	

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
 Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.



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Date Created: 01/09/24
 Created By: Jason Hebert
 File: PM15856-1
 Page: 3

Volatile Organics in Air: TO-15 (AIR)

Holding Time: 30 days
 Container/Sample Preservation: 1 - Canister - 2.7 Liter

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria
1,2,3-Trichloropropane	96-18-4	0.2	0.0575	ppbV	70-130			25	25	
Acetonitrile	75-05-8	0.2	0.101	ppbV	70-130			25	25	
Bromobenzene	108-86-1	0.2	0.0579	ppbV	70-130			25	25	
Chlorodifluoromethane	75-45-6	0.2	0.0463	ppbV	70-130			25	25	
Dichlorofluoromethane	75-43-4	0.2	0.112	ppbV	70-130			25	25	
Dibromomethane	74-95-3	0.2	0.0598	ppbV	70-130			25	25	
Pentane	109-66-0	0.2	0.113	ppbV	70-130			25	25	
Octane	111-65-9	0.2	0.0676	ppbV	70-130			25	25	
Tertiary-Amyl Methyl Ether	994-05-8	0.2	0.0672	ppbV	70-130			25	25	
o-Chlorotoluene	95-49-8	0.2	0.0761	ppbV	70-130			25	25	
p-Chlorotoluene	106-43-4	0.2	0.0765	ppbV	70-130			25	25	
2,2-Dichloropropane	594-20-7	0.2	0.0429	ppbV	70-130			25	25	
1,1-Dichloropropene	563-58-6	0.2	0.0593	ppbV	70-130			25	25	
Isopropyl Ether	108-20-3	0.2	0.0631	ppbV	70-130			25	25	
Ethyl-Tert-Butyl-Ether	637-92-3	0.2	0.0731	ppbV	70-130			25	25	
1,2,3-Trichlorobenzene	87-61-6	0.2	0.0738	ppbV	70-130			25	25	
Ethyl ether	60-29-7	0.2	0.0853	ppbV	70-130			25	25	
n-Butylbenzene	104-51-8	0.2	0.0536	ppbV	70-130			25	25	
sec-Butylbenzene	135-98-8	0.2	0.0547	ppbV	70-130			25	25	
tert-Butylbenzene	98-06-6	0.2	0.0551	ppbV	70-130			25	25	
1,2-Dibromo-3-chloropropane	96-12-8	0.2	0.0624	ppbV	70-130			25	25	
p-Isopropyltoluene	99-87-6	0.2	0.0567	ppbV	70-130			25	25	
n-Propylbenzene	103-65-1	0.2	0.0633	ppbV	70-130			25	25	
1,3-Dichloropropane	142-28-9	0.2	0.0536	ppbV	70-130			25	25	
Methanol	67-56-1	5	3.029	ppbV	70-130			25	25	
Acetaldehyde	75-07-0	2.5	1.73	ppbV	70-130			25	25	
Butane	106-97-8	0.2	0.08	ppbV	70-130			25	25	
Nonane (C9)	111-84-2	0.2	0.0737	ppbV	70-130			25	25	
Decane (C10)	124-18-5	0.2	0.0697	ppbV	70-130			25	25	
Undecane	1120-21-4	0.2	0.0709	ppbV	70-130			25	25	
Indane	496-11-7	0.2	0.0591	ppbV	70-130			25	25	
Indene	95-13-6	0.2	0.0711	ppbV	70-130			25	25	
1-Methylnaphthalene	90-12-0	1	0.264	ppbV	70-130			25	25	
Dodecane (C12)	112-40-3	0.2	0.0891	ppbV	70-130			25	25	
Butyl Acetate	123-86-4	0.5	0.208	ppbV	70-130			25	25	
tert-Butyl Alcohol	75-65-0	0.5	0.132	ppbV	70-130			25	25	
2-Methylnaphthalene	91-57-6	1	0.259	ppbV	70-130			25	25	
1,2-Dichloroethane-d4	17060-07-0									70-130
Toluene-d8	2037-26-5									70-130
Bromofluorobenzene	460-00-4									70-130

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
 Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.



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Volatiles Sample Data

Results Summary

Form 1

Volatile Organics in Air

Client : TRC Environmental Corp
Project Name : K710 IAQ
Lab ID : L2407645-01
Client ID : TRC-IA-01
Sample Location : 168 8TH STREET, BROOKLYN, NY
Sample Matrix : AIR
Analytical Method : 48,TO-15
Lab File ID : R1738654
Sample Amount : 250 ml

Lab Number : L2407645
Project Number : 457205
Date Collected : 02/09/24 15:44
Date Received : 02/09/24
Date Analyzed : 02/15/24 20:59
Dilution Factor : 1
Analyst : JMB
Instrument ID : AIRLAB17
GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
75-71-8	Dichlorodifluoromethane	0.488	0.200	--	2.41	0.989	--	
74-87-3	Chloromethane	0.485	0.200	--	1.00	0.413	--	
76-14-2	Freon-114	ND	0.200	--	ND	1.40	--	U
106-99-0	1,3-Butadiene	ND	0.200	--	ND	0.442	--	U
74-83-9	Bromomethane	ND	0.200	--	ND	0.777	--	U
75-00-3	Chloroethane	ND	0.200	--	ND	0.528	--	U
64-17-5	Ethanol	7.95	5.00	--	15.0	9.42	--	
593-60-2	Vinyl bromide	ND	0.200	--	ND	0.874	--	U
67-64-1	Acetone	2.20	1.00	--	5.23	2.38	--	
75-69-4	Trichlorofluoromethane	0.221	0.200	--	1.24	1.12	--	
67-63-0	Isopropanol	0.934	0.500	--	2.30	1.23	--	
75-65-0	Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--	U
75-09-2	Methylene chloride	ND	0.500	--	ND	1.74	--	U
107-05-1	3-Chloropropene	ND	0.200	--	ND	0.626	--	U
75-15-0	Carbon disulfide	ND	0.200	--	ND	0.623	--	U
76-13-1	Freon-113	ND	0.200	--	ND	1.53	--	U
156-60-5	trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--	U
75-34-3	1,1-Dichloroethane	ND	0.200	--	ND	0.809	--	U
1634-04-4	Methyl tert butyl ether	ND	0.200	--	ND	0.721	--	U
78-93-3	2-Butanone	ND	0.500	--	ND	1.47	--	U
141-78-6	Ethyl Acetate	ND	0.500	--	ND	1.80	--	U
67-66-3	Chloroform	ND	0.200	--	ND	0.977	--	U
109-99-9	Tetrahydrofuran	ND	0.500	--	ND	1.47	--	U
107-06-2	1,2-Dichloroethane	ND	0.200	--	ND	0.809	--	U
110-54-3	n-Hexane	ND	0.200	--	ND	0.705	--	U
71-43-2	Benzene	ND	0.200	--	ND	0.639	--	U



Results Summary

Form 1

Volatile Organics in Air

Client : TRC Environmental Corp	Lab Number : L2407645
Project Name : K710 IAQ	Project Number : 457205
Lab ID : L2407645-01	Date Collected : 02/09/24 15:44
Client ID : TRC-IA-01	Date Received : 02/09/24
Sample Location : 168 8TH STREET, BROOKLYN, NY	Date Analyzed : 02/15/24 20:59
Sample Matrix : AIR	Dilution Factor : 1
Analytical Method : 48,TO-15	Analyst : JMB
Lab File ID : R1738654	Instrument ID : AIRLAB17
Sample Amount : 250 ml	GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
110-82-7	Cyclohexane	ND	0.200	--	ND	0.688	--	U
78-87-5	1,2-Dichloropropane	ND	0.200	--	ND	0.924	--	U
75-27-4	Bromodichloromethane	ND	0.200	--	ND	1.34	--	U
123-91-1	1,4-Dioxane	ND	0.200	--	ND	0.721	--	U
540-84-1	2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--	U
142-82-5	Heptane	ND	0.200	--	ND	0.820	--	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
108-10-1	4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
79-00-5	1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--	U
108-88-3	Toluene	0.226	0.200	--	0.852	0.754	--	
591-78-6	2-Hexanone	ND	0.200	--	ND	0.820	--	U
124-48-1	Dibromochloromethane	ND	0.200	--	ND	1.70	--	U
106-93-4	1,2-Dibromoethane	ND	0.200	--	ND	1.54	--	U
108-90-7	Chlorobenzene	ND	0.200	--	ND	0.921	--	U
100-41-4	Ethylbenzene	ND	0.200	--	ND	0.869	--	U
179601-23-1	p/m-Xylene	ND	0.400	--	ND	1.74	--	U
75-25-2	Bromoform	ND	0.200	--	ND	2.07	--	U
100-42-5	Styrene	ND	0.200	--	ND	0.852	--	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--	U
95-47-6	o-Xylene	ND	0.200	--	ND	0.869	--	U
622-96-8	4-Ethyltoluene	ND	0.200	--	ND	0.983	--	U
108-67-8	1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--	U
95-63-6	1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--	U
100-44-7	Benzyl chloride	ND	0.200	--	ND	1.04	--	U
541-73-1	1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U



Results Summary

Form 1

Volatile Organics in Air

Client : TRC Environmental Corp	Lab Number : L2407645
Project Name : K710 IAQ	Project Number : 457205
Lab ID : L2407645-01	Date Collected : 02/09/24 15:44
Client ID : TRC-IA-01	Date Received : 02/09/24
Sample Location : 168 8TH STREET, BROOKLYN, NY	Date Analyzed : 02/15/24 20:59
Sample Matrix : AIR	Dilution Factor : 1
Analytical Method : 48,TO-15	Analyst : JMB
Lab File ID : R1738654	Instrument ID : AIRLAB17
Sample Amount : 250 ml	GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
106-46-7	1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
95-50-1	1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
120-82-1	1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--	U
87-68-3	Hexachlorobutadiene	ND	0.200	--	ND	2.13	--	U



Results Summary

Form 1

Volatile Organics in Air

Client : TRC Environmental Corp	Lab Number : L2407645
Project Name : K710 IAQ	Project Number : 457205
Lab ID : L2407645-02	Date Collected : 02/09/24 15:24
Client ID : TRC-IA-02	Date Received : 02/09/24
Sample Location : 168 8TH STREET, BROOKLYN, NY	Date Analyzed : 02/15/24 21:39
Sample Matrix : AIR	Dilution Factor : 1
Analytical Method : 48,TO-15	Analyst : JMB
Lab File ID : R1738655	Instrument ID : AIRLAB17
Sample Amount : 250 ml	GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
75-71-8	Dichlorodifluoromethane	0.496	0.200	--	2.45	0.989	--	
74-87-3	Chloromethane	0.499	0.200	--	1.03	0.413	--	
76-14-2	Freon-114	ND	0.200	--	ND	1.40	--	U
106-99-0	1,3-Butadiene	ND	0.200	--	ND	0.442	--	U
74-83-9	Bromomethane	ND	0.200	--	ND	0.777	--	U
75-00-3	Chloroethane	ND	0.200	--	ND	0.528	--	U
64-17-5	Ethanol	19.1	5.00	--	36.0	9.42	--	
593-60-2	Vinyl bromide	ND	0.200	--	ND	0.874	--	U
67-64-1	Acetone	4.44	1.00	--	10.5	2.38	--	
75-69-4	Trichlorofluoromethane	0.234	0.200	--	1.31	1.12	--	
67-63-0	Isopropanol	1.40	0.500	--	3.44	1.23	--	
75-65-0	Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--	U
75-09-2	Methylene chloride	ND	0.500	--	ND	1.74	--	U
107-05-1	3-Chloropropene	ND	0.200	--	ND	0.626	--	U
75-15-0	Carbon disulfide	ND	0.200	--	ND	0.623	--	U
76-13-1	Freon-113	ND	0.200	--	ND	1.53	--	U
156-60-5	trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--	U
75-34-3	1,1-Dichloroethane	ND	0.200	--	ND	0.809	--	U
1634-04-4	Methyl tert butyl ether	ND	0.200	--	ND	0.721	--	U
78-93-3	2-Butanone	ND	0.500	--	ND	1.47	--	U
141-78-6	Ethyl Acetate	0.779	0.500	--	2.81	1.80	--	
67-66-3	Chloroform	ND	0.200	--	ND	0.977	--	U
109-99-9	Tetrahydrofuran	1.01	0.500	--	2.98	1.47	--	
107-06-2	1,2-Dichloroethane	ND	0.200	--	ND	0.809	--	U
110-54-3	n-Hexane	0.204	0.200	--	0.719	0.705	--	
71-43-2	Benzene	0.231	0.200	--	0.738	0.639	--	



Results Summary

Form 1

Volatile Organics in Air

Client : TRC Environmental Corp	Lab Number : L2407645
Project Name : K710 IAQ	Project Number : 457205
Lab ID : L2407645-02	Date Collected : 02/09/24 15:24
Client ID : TRC-IA-02	Date Received : 02/09/24
Sample Location : 168 8TH STREET, BROOKLYN, NY	Date Analyzed : 02/15/24 21:39
Sample Matrix : AIR	Dilution Factor : 1
Analytical Method : 48,TO-15	Analyst : JMB
Lab File ID : R1738655	Instrument ID : AIRLAB17
Sample Amount : 250 ml	GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
110-82-7	Cyclohexane	ND	0.200	--	ND	0.688	--	U
78-87-5	1,2-Dichloropropane	ND	0.200	--	ND	0.924	--	U
75-27-4	Bromodichloromethane	ND	0.200	--	ND	1.34	--	U
123-91-1	1,4-Dioxane	ND	0.200	--	ND	0.721	--	U
540-84-1	2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--	U
142-82-5	Heptane	ND	0.200	--	ND	0.820	--	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
108-10-1	4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
79-00-5	1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--	U
108-88-3	Toluene	0.470	0.200	--	1.77	0.754	--	
591-78-6	2-Hexanone	ND	0.200	--	ND	0.820	--	U
124-48-1	Dibromochloromethane	ND	0.200	--	ND	1.70	--	U
106-93-4	1,2-Dibromoethane	ND	0.200	--	ND	1.54	--	U
108-90-7	Chlorobenzene	ND	0.200	--	ND	0.921	--	U
100-41-4	Ethylbenzene	ND	0.200	--	ND	0.869	--	U
179601-23-1	p/m-Xylene	ND	0.400	--	ND	1.74	--	U
75-25-2	Bromoform	ND	0.200	--	ND	2.07	--	U
100-42-5	Styrene	ND	0.200	--	ND	0.852	--	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--	U
95-47-6	o-Xylene	ND	0.200	--	ND	0.869	--	U
622-96-8	4-Ethyltoluene	ND	0.200	--	ND	0.983	--	U
108-67-8	1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--	U
95-63-6	1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--	U
100-44-7	Benzyl chloride	ND	0.200	--	ND	1.04	--	U
541-73-1	1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U



Results Summary

Form 1

Volatile Organics in Air

Client : TRC Environmental Corp	Lab Number : L2407645
Project Name : K710 IAQ	Project Number : 457205
Lab ID : L2407645-02	Date Collected : 02/09/24 15:24
Client ID : TRC-IA-02	Date Received : 02/09/24
Sample Location : 168 8TH STREET, BROOKLYN, NY	Date Analyzed : 02/15/24 21:39
Sample Matrix : AIR	Dilution Factor : 1
Analytical Method : 48,TO-15	Analyst : JMB
Lab File ID : R1738655	Instrument ID : AIRLAB17
Sample Amount : 250 ml	GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
106-46-7	1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
95-50-1	1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
120-82-1	1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--	U
87-68-3	Hexachlorobutadiene	ND	0.200	--	ND	2.13	--	U



Results Summary

Form 1

Volatile Organics in Air

Client : TRC Environmental Corp	Lab Number : L2407645
Project Name : K710 IAQ	Project Number : 457205
Lab ID : L2407645-03	Date Collected : 02/09/24 14:02
Client ID : TRC-IA-03	Date Received : 02/09/24
Sample Location : 168 8TH STREET, BROOKLYN, NY	Date Analyzed : 02/15/24 22:57
Sample Matrix : AIR	Dilution Factor : 1
Analytical Method : 48,TO-15	Analyst : JMB
Lab File ID : R1738657	Instrument ID : AIRLAB17
Sample Amount : 250 ml	GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
75-71-8	Dichlorodifluoromethane	0.512	0.200	--	2.53	0.989	--	
74-87-3	Chloromethane	0.502	0.200	--	1.04	0.413	--	
76-14-2	Freon-114	ND	0.200	--	ND	1.40	--	U
106-99-0	1,3-Butadiene	ND	0.200	--	ND	0.442	--	U
74-83-9	Bromomethane	ND	0.200	--	ND	0.777	--	U
75-00-3	Chloroethane	ND	0.200	--	ND	0.528	--	U
64-17-5	Ethanol	7.54	5.00	--	14.2	9.42	--	
593-60-2	Vinyl bromide	ND	0.200	--	ND	0.874	--	U
67-64-1	Acetone	2.43	1.00	--	5.77	2.38	--	
75-69-4	Trichlorofluoromethane	0.239	0.200	--	1.34	1.12	--	
67-63-0	Isopropanol	0.775	0.500	--	1.91	1.23	--	
75-65-0	Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--	U
75-09-2	Methylene chloride	ND	0.500	--	ND	1.74	--	U
107-05-1	3-Chloropropene	ND	0.200	--	ND	0.626	--	U
75-15-0	Carbon disulfide	ND	0.200	--	ND	0.623	--	U
76-13-1	Freon-113	ND	0.200	--	ND	1.53	--	U
156-60-5	trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--	U
75-34-3	1,1-Dichloroethane	ND	0.200	--	ND	0.809	--	U
1634-04-4	Methyl tert butyl ether	ND	0.200	--	ND	0.721	--	U
78-93-3	2-Butanone	ND	0.500	--	ND	1.47	--	U
141-78-6	Ethyl Acetate	ND	0.500	--	ND	1.80	--	U
67-66-3	Chloroform	ND	0.200	--	ND	0.977	--	U
109-99-9	Tetrahydrofuran	ND	0.500	--	ND	1.47	--	U
107-06-2	1,2-Dichloroethane	ND	0.200	--	ND	0.809	--	U
110-54-3	n-Hexane	ND	0.200	--	ND	0.705	--	U
71-43-2	Benzene	ND	0.200	--	ND	0.639	--	U



Results Summary Form 1 Volatile Organics in Air

Client : TRC Environmental Corp	Lab Number : L2407645
Project Name : K710 IAQ	Project Number : 457205
Lab ID : L2407645-03	Date Collected : 02/09/24 14:02
Client ID : TRC-IA-03	Date Received : 02/09/24
Sample Location : 168 8TH STREET, BROOKLYN, NY	Date Analyzed : 02/15/24 22:57
Sample Matrix : AIR	Dilution Factor : 1
Analytical Method : 48,TO-15	Analyst : JMB
Lab File ID : R1738657	Instrument ID : AIRLAB17
Sample Amount : 250 ml	GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
110-82-7	Cyclohexane	ND	0.200	--	ND	0.688	--	U
78-87-5	1,2-Dichloropropane	ND	0.200	--	ND	0.924	--	U
75-27-4	Bromodichloromethane	ND	0.200	--	ND	1.34	--	U
123-91-1	1,4-Dioxane	ND	0.200	--	ND	0.721	--	U
540-84-1	2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--	U
142-82-5	Heptane	ND	0.200	--	ND	0.820	--	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
108-10-1	4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
79-00-5	1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--	U
108-88-3	Toluene	0.260	0.200	--	0.980	0.754	--	
591-78-6	2-Hexanone	ND	0.200	--	ND	0.820	--	U
124-48-1	Dibromochloromethane	ND	0.200	--	ND	1.70	--	U
106-93-4	1,2-Dibromoethane	ND	0.200	--	ND	1.54	--	U
108-90-7	Chlorobenzene	ND	0.200	--	ND	0.921	--	U
100-41-4	Ethylbenzene	ND	0.200	--	ND	0.869	--	U
179601-23-1	p/m-Xylene	ND	0.400	--	ND	1.74	--	U
75-25-2	Bromoform	ND	0.200	--	ND	2.07	--	U
100-42-5	Styrene	ND	0.200	--	ND	0.852	--	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--	U
95-47-6	o-Xylene	ND	0.200	--	ND	0.869	--	U
622-96-8	4-Ethyltoluene	ND	0.200	--	ND	0.983	--	U
108-67-8	1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--	U
95-63-6	1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--	U
100-44-7	Benzyl chloride	ND	0.200	--	ND	1.04	--	U
541-73-1	1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U



Results Summary

Form 1

Volatile Organics in Air

Client : TRC Environmental Corp	Lab Number : L2407645
Project Name : K710 IAQ	Project Number : 457205
Lab ID : L2407645-03	Date Collected : 02/09/24 14:02
Client ID : TRC-IA-03	Date Received : 02/09/24
Sample Location : 168 8TH STREET, BROOKLYN, NY	Date Analyzed : 02/15/24 22:57
Sample Matrix : AIR	Dilution Factor : 1
Analytical Method : 48,TO-15	Analyst : JMB
Lab File ID : R1738657	Instrument ID : AIRLAB17
Sample Amount : 250 ml	GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
106-46-7	1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
95-50-1	1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
120-82-1	1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--	U
87-68-3	Hexachlorobutadiene	ND	0.200	--	ND	2.13	--	U



Results Summary

Form 1

Volatile Organics in Air

Client : TRC Environmental Corp	Lab Number : L2407645
Project Name : K710 IAQ	Project Number : 457205
Lab ID : L2407645-04	Date Collected : 02/09/24 15:32
Client ID : TRC-AA-01	Date Received : 02/09/24
Sample Location : 168 8TH STREET, BROOKLYN, NY	Date Analyzed : 02/15/24 20:20
Sample Matrix : AIR	Dilution Factor : 1
Analytical Method : 48,TO-15	Analyst : JMB
Lab File ID : R1738653	Instrument ID : AIRLAB17
Sample Amount : 250 ml	GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
75-71-8	Dichlorodifluoromethane	0.499	0.200	--	2.47	0.989	--	
74-87-3	Chloromethane	0.491	0.200	--	1.01	0.413	--	
76-14-2	Freon-114	ND	0.200	--	ND	1.40	--	U
106-99-0	1,3-Butadiene	ND	0.200	--	ND	0.442	--	U
74-83-9	Bromomethane	ND	0.200	--	ND	0.777	--	U
75-00-3	Chloroethane	ND	0.200	--	ND	0.528	--	U
64-17-5	Ethanol	ND	5.00	--	ND	9.42	--	U
593-60-2	Vinyl bromide	ND	0.200	--	ND	0.874	--	U
67-64-1	Acetone	2.04	1.00	--	4.85	2.38	--	
75-69-4	Trichlorofluoromethane	0.228	0.200	--	1.28	1.12	--	
67-63-0	Isopropanol	0.557	0.500	--	1.37	1.23	--	
75-65-0	Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--	U
75-09-2	Methylene chloride	ND	0.500	--	ND	1.74	--	U
107-05-1	3-Chloropropene	ND	0.200	--	ND	0.626	--	U
75-15-0	Carbon disulfide	ND	0.200	--	ND	0.623	--	U
76-13-1	Freon-113	ND	0.200	--	ND	1.53	--	U
156-60-5	trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--	U
75-34-3	1,1-Dichloroethane	ND	0.200	--	ND	0.809	--	U
1634-04-4	Methyl tert butyl ether	ND	0.200	--	ND	0.721	--	U
78-93-3	2-Butanone	ND	0.500	--	ND	1.47	--	U
141-78-6	Ethyl Acetate	ND	0.500	--	ND	1.80	--	U
67-66-3	Chloroform	ND	0.200	--	ND	0.977	--	U
109-99-9	Tetrahydrofuran	ND	0.500	--	ND	1.47	--	U
107-06-2	1,2-Dichloroethane	ND	0.200	--	ND	0.809	--	U
110-54-3	n-Hexane	ND	0.200	--	ND	0.705	--	U
71-43-2	Benzene	ND	0.200	--	ND	0.639	--	U



Results Summary Form 1 Volatile Organics in Air

Client : TRC Environmental Corp	Lab Number : L2407645
Project Name : K710 IAQ	Project Number : 457205
Lab ID : L2407645-04	Date Collected : 02/09/24 15:32
Client ID : TRC-AA-01	Date Received : 02/09/24
Sample Location : 168 8TH STREET, BROOKLYN, NY	Date Analyzed : 02/15/24 20:20
Sample Matrix : AIR	Dilution Factor : 1
Analytical Method : 48,TO-15	Analyst : JMB
Lab File ID : R1738653	Instrument ID : AIRLAB17
Sample Amount : 250 ml	GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
110-82-7	Cyclohexane	ND	0.200	--	ND	0.688	--	U
78-87-5	1,2-Dichloropropane	ND	0.200	--	ND	0.924	--	U
75-27-4	Bromodichloromethane	ND	0.200	--	ND	1.34	--	U
123-91-1	1,4-Dioxane	ND	0.200	--	ND	0.721	--	U
540-84-1	2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--	U
142-82-5	Heptane	ND	0.200	--	ND	0.820	--	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
108-10-1	4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
79-00-5	1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--	U
108-88-3	Toluene	ND	0.200	--	ND	0.754	--	U
591-78-6	2-Hexanone	ND	0.200	--	ND	0.820	--	U
124-48-1	Dibromochloromethane	ND	0.200	--	ND	1.70	--	U
106-93-4	1,2-Dibromoethane	ND	0.200	--	ND	1.54	--	U
108-90-7	Chlorobenzene	ND	0.200	--	ND	0.921	--	U
100-41-4	Ethylbenzene	ND	0.200	--	ND	0.869	--	U
179601-23-1	p/m-Xylene	ND	0.400	--	ND	1.74	--	U
75-25-2	Bromoform	ND	0.200	--	ND	2.07	--	U
100-42-5	Styrene	ND	0.200	--	ND	0.852	--	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--	U
95-47-6	o-Xylene	ND	0.200	--	ND	0.869	--	U
622-96-8	4-Ethyltoluene	ND	0.200	--	ND	0.983	--	U
108-67-8	1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--	U
95-63-6	1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--	U
100-44-7	Benzyl chloride	ND	0.200	--	ND	1.04	--	U
541-73-1	1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U



Results Summary

Form 1

Volatile Organics in Air

Client : TRC Environmental Corp	Lab Number : L2407645
Project Name : K710 IAQ	Project Number : 457205
Lab ID : L2407645-04	Date Collected : 02/09/24 15:32
Client ID : TRC-AA-01	Date Received : 02/09/24
Sample Location : 168 8TH STREET, BROOKLYN, NY	Date Analyzed : 02/15/24 20:20
Sample Matrix : AIR	Dilution Factor : 1
Analytical Method : 48,TO-15	Analyst : JMB
Lab File ID : R1738653	Instrument ID : AIRLAB17
Sample Amount : 250 ml	GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
106-46-7	1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
95-50-1	1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
120-82-1	1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--	U
87-68-3	Hexachlorobutadiene	ND	0.200	--	ND	2.13	--	U



Results Summary

Form 1

Volatile Organics in Air

Client : TRC Environmental Corp
 Project Name : K710 IAQ
 Lab ID : WG1885731-4
 Client ID : WG1885731-4BLANK
 Sample Location :
 Sample Matrix : AIR
 Analytical Method : 48,TO-15
 Lab File ID : R1738651
 Sample Amount : 250 ml

Lab Number : L2407645
 Project Number : 457205
 Date Collected : NA
 Date Received : NA
 Date Analyzed : 02/15/24 19:01
 Dilution Factor : 1
 Analyst : JMB
 Instrument ID : AIRLAB17
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
75-71-8	Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--	U
74-87-3	Chloromethane	ND	0.200	--	ND	0.413	--	U
76-14-2	Freon-114	ND	0.200	--	ND	1.40	--	U
75-01-4	Vinyl chloride	ND	0.200	--	ND	0.511	--	U
106-99-0	1,3-Butadiene	ND	0.200	--	ND	0.442	--	U
74-83-9	Bromomethane	ND	0.200	--	ND	0.777	--	U
75-00-3	Chloroethane	ND	0.200	--	ND	0.528	--	U
64-17-5	Ethanol	ND	5.00	--	ND	9.42	--	U
593-60-2	Vinyl bromide	ND	0.200	--	ND	0.874	--	U
67-64-1	Acetone	ND	1.00	--	ND	2.38	--	U
75-69-4	Trichlorofluoromethane	ND	0.200	--	ND	1.12	--	U
67-63-0	Isopropanol	ND	0.500	--	ND	1.23	--	U
75-35-4	1,1-Dichloroethene	ND	0.200	--	ND	0.793	--	U
75-65-0	Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--	U
75-09-2	Methylene chloride	ND	0.500	--	ND	1.74	--	U
107-05-1	3-Chloropropene	ND	0.200	--	ND	0.626	--	U
75-15-0	Carbon disulfide	ND	0.200	--	ND	0.623	--	U
76-13-1	Freon-113	ND	0.200	--	ND	1.53	--	U
156-60-5	trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--	U
75-34-3	1,1-Dichloroethane	ND	0.200	--	ND	0.809	--	U
1634-04-4	Methyl tert butyl ether	ND	0.200	--	ND	0.721	--	U
78-93-3	2-Butanone	ND	0.500	--	ND	1.47	--	U
156-59-2	cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--	U
141-78-6	Ethyl Acetate	ND	0.500	--	ND	1.80	--	U
67-66-3	Chloroform	ND	0.200	--	ND	0.977	--	U
109-99-9	Tetrahydrofuran	ND	0.500	--	ND	1.47	--	U



Results Summary

Form 1

Volatile Organics in Air

Client : TRC Environmental Corp
 Project Name : K710 IAQ
 Lab ID : WG1885731-4
 Client ID : WG1885731-4BLANK
 Sample Location :
 Sample Matrix : AIR
 Analytical Method : 48,TO-15
 Lab File ID : R1738651
 Sample Amount : 250 ml

Lab Number : L2407645
 Project Number : 457205
 Date Collected : NA
 Date Received : NA
 Date Analyzed : 02/15/24 19:01
 Dilution Factor : 1
 Analyst : JMB
 Instrument ID : AIRLAB17
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
107-06-2	1,2-Dichloroethane	ND	0.200	--	ND	0.809	--	U
110-54-3	n-Hexane	ND	0.200	--	ND	0.705	--	U
71-55-6	1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--	U
71-43-2	Benzene	ND	0.200	--	ND	0.639	--	U
56-23-5	Carbon tetrachloride	ND	0.200	--	ND	1.26	--	U
110-82-7	Cyclohexane	ND	0.200	--	ND	0.688	--	U
78-87-5	1,2-Dichloropropane	ND	0.200	--	ND	0.924	--	U
75-27-4	Bromodichloromethane	ND	0.200	--	ND	1.34	--	U
123-91-1	1,4-Dioxane	ND	0.200	--	ND	0.721	--	U
79-01-6	Trichloroethene	ND	0.200	--	ND	1.07	--	U
540-84-1	2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--	U
142-82-5	Heptane	ND	0.200	--	ND	0.820	--	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
108-10-1	4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
79-00-5	1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--	U
108-88-3	Toluene	ND	0.200	--	ND	0.754	--	U
591-78-6	2-Hexanone	ND	0.200	--	ND	0.820	--	U
124-48-1	Dibromochloromethane	ND	0.200	--	ND	1.70	--	U
106-93-4	1,2-Dibromoethane	ND	0.200	--	ND	1.54	--	U
127-18-4	Tetrachloroethene	ND	0.200	--	ND	1.36	--	U
108-90-7	Chlorobenzene	ND	0.200	--	ND	0.921	--	U
100-41-4	Ethylbenzene	ND	0.200	--	ND	0.869	--	U
179601-23-1	p/m-Xylene	ND	0.400	--	ND	1.74	--	U
75-25-2	Bromoform	ND	0.200	--	ND	2.07	--	U
100-42-5	Styrene	ND	0.200	--	ND	0.852	--	U



Results Summary

Form 1

Volatile Organics in Air

Client : TRC Environmental Corp
 Project Name : K710 IAQ
 Lab ID : WG1885731-4
 Client ID : WG1885731-4BLANK
 Sample Location :
 Sample Matrix : AIR
 Analytical Method : 48,TO-15
 Lab File ID : R1738651
 Sample Amount : 250 ml

Lab Number : L2407645
 Project Number : 457205
 Date Collected : NA
 Date Received : NA
 Date Analyzed : 02/15/24 19:01
 Dilution Factor : 1
 Analyst : JMB
 Instrument ID : AIRLAB17
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--	U
95-47-6	o-Xylene	ND	0.200	--	ND	0.869	--	U
622-96-8	4-Ethyltoluene	ND	0.200	--	ND	0.983	--	U
108-67-8	1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--	U
95-63-6	1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--	U
100-44-7	Benzyl chloride	ND	0.200	--	ND	1.04	--	U
541-73-1	1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
106-46-7	1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
95-50-1	1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
120-82-1	1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--	U
87-68-3	Hexachlorobutadiene	ND	0.200	--	ND	2.13	--	U



Results Summary

Form 1

Volatile Organics in Air

Client : TRC Environmental Corp
 Project Name : K710 IAQ
 Lab ID : WG1885731-5
 Client ID : TRC-IA-03DUP
 Sample Location :
 Sample Matrix : AIR
 Analytical Method : 48,TO-15
 Lab File ID : R1738658
 Sample Amount : 250 ml

Lab Number : L2407645
 Project Number : 457205
 Date Collected : 02/09/24 14:02
 Date Received : 02/09/24
 Date Analyzed : 02/15/24 23:36
 Dilution Factor : 1
 Analyst : JMB
 Instrument ID : AIRLAB17
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
75-71-8	Dichlorodifluoromethane	0.520	0.200	--	2.57	0.989	--	
74-87-3	Chloromethane	0.514	0.200	--	1.06	0.413	--	
76-14-2	Freon-114	ND	0.200	--	ND	1.40	--	U
106-99-0	1,3-Butadiene	ND	0.200	--	ND	0.442	--	U
74-83-9	Bromomethane	ND	0.200	--	ND	0.777	--	U
75-00-3	Chloroethane	ND	0.200	--	ND	0.528	--	U
64-17-5	Ethanol	8.20	5.00	--	15.5	9.42	--	
593-60-2	Vinyl bromide	ND	0.200	--	ND	0.874	--	U
67-64-1	Acetone	2.40	1.00	--	5.70	2.38	--	
75-69-4	Trichlorofluoromethane	0.240	0.200	--	1.35	1.12	--	
67-63-0	Isopropanol	0.755	0.500	--	1.86	1.23	--	
75-65-0	Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--	U
75-09-2	Methylene chloride	0.603	0.500	--	2.09	1.74	--	
107-05-1	3-Chloropropene	ND	0.200	--	ND	0.626	--	U
75-15-0	Carbon disulfide	ND	0.200	--	ND	0.623	--	U
76-13-1	Freon-113	ND	0.200	--	ND	1.53	--	U
156-60-5	trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--	U
75-34-3	1,1-Dichloroethane	ND	0.200	--	ND	0.809	--	U
1634-04-4	Methyl tert butyl ether	ND	0.200	--	ND	0.721	--	U
78-93-3	2-Butanone	ND	0.500	--	ND	1.47	--	U
141-78-6	Ethyl Acetate	ND	0.500	--	ND	1.80	--	U
67-66-3	Chloroform	ND	0.200	--	ND	0.977	--	U
109-99-9	Tetrahydrofuran	ND	0.500	--	ND	1.47	--	U
107-06-2	1,2-Dichloroethane	ND	0.200	--	ND	0.809	--	U
110-54-3	n-Hexane	ND	0.200	--	ND	0.705	--	U
71-43-2	Benzene	ND	0.200	--	ND	0.639	--	U



Results Summary

Form 1

Volatile Organics in Air

Client : TRC Environmental Corp
 Project Name : K710 IAQ
 Lab ID : WG1885731-5
 Client ID : TRC-IA-03DUP
 Sample Location :
 Sample Matrix : AIR
 Analytical Method : 48,TO-15
 Lab File ID : R1738658
 Sample Amount : 250 ml

Lab Number : L2407645
 Project Number : 457205
 Date Collected : 02/09/24 14:02
 Date Received : 02/09/24
 Date Analyzed : 02/15/24 23:36
 Dilution Factor : 1
 Analyst : JMB
 Instrument ID : AIRLAB17
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
110-82-7	Cyclohexane	ND	0.200	--	ND	0.688	--	U
78-87-5	1,2-Dichloropropane	ND	0.200	--	ND	0.924	--	U
75-27-4	Bromodichloromethane	ND	0.200	--	ND	1.34	--	U
123-91-1	1,4-Dioxane	ND	0.200	--	ND	0.721	--	U
540-84-1	2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--	U
142-82-5	Heptane	ND	0.200	--	ND	0.820	--	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
108-10-1	4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
79-00-5	1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--	U
108-88-3	Toluene	0.255	0.200	--	0.961	0.754	--	
591-78-6	2-Hexanone	ND	0.200	--	ND	0.820	--	U
124-48-1	Dibromochloromethane	ND	0.200	--	ND	1.70	--	U
106-93-4	1,2-Dibromoethane	ND	0.200	--	ND	1.54	--	U
108-90-7	Chlorobenzene	ND	0.200	--	ND	0.921	--	U
100-41-4	Ethylbenzene	ND	0.200	--	ND	0.869	--	U
179601-23-1	p/m-Xylene	ND	0.400	--	ND	1.74	--	U
75-25-2	Bromoform	ND	0.200	--	ND	2.07	--	U
100-42-5	Styrene	ND	0.200	--	ND	0.852	--	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--	U
95-47-6	o-Xylene	ND	0.200	--	ND	0.869	--	U
622-96-8	4-Ethyltoluene	ND	0.200	--	ND	0.983	--	U
108-67-8	1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--	U
95-63-6	1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--	U
100-44-7	Benzyl chloride	ND	0.200	--	ND	1.04	--	U
541-73-1	1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U



Results Summary

Form 1

Volatile Organics in Air

Client : TRC Environmental Corp
Project Name : K710 IAQ
Lab ID : WG1885731-5
Client ID : TRC-IA-03DUP
Sample Location :
Sample Matrix : AIR
Analytical Method : 48,TO-15
Lab File ID : R1738658
Sample Amount : 250 ml

Lab Number : L2407645
Project Number : 457205
Date Collected : 02/09/24 14:02
Date Received : 02/09/24
Date Analyzed : 02/15/24 23:36
Dilution Factor : 1
Analyst : JMB
Instrument ID : AIRLAB17
GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
106-46-7	1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
95-50-1	1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
120-82-1	1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--	U
87-68-3	Hexachlorobutadiene	ND	0.200	--	ND	2.13	--	U



Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab17\2024\02\0215T\
 Data File : r1738653.D
 Acq On : 15 Feb 2024 8:20 PM
 Operator : AIRLAB17:JMB
 Sample : L2407645-04,3,250,250
 Misc : WG1885731,ICAL20743
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 16 08:03:23 2024
 Quant Method : O:\Forensics\Data\Airlab17\2024\02\0215T\TFS17_240107.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Mon Jan 08 15:04:31 2024
 Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab17\2024\02\0215T\r1738648.D
 Sub List : TO15-NY-7-SIM - .

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	8.850	49	360094	10.000	ppbV	0.00
Standard Area =	370847		Recovery =	97.10%		
43) 1,4-difluorobenzene	11.090	114	933630	10.000	ppbV	0.02
Standard Area =	986523		Recovery =	94.64%		
67) chlorobenzene-D5	15.842	54	136935	10.000	ppbV	0.00
Standard Area =	142298		Recovery =	96.23%		

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) dichlorodifluoromethane	3.874	85	17031	0.499	ppbV	98
6) chloromethane	4.030	50	8907	0.491	ppbV	99
7) Freon-114	4.126		0	N.D.		
10) 1,3-butadiene	4.390		0	N.D.		
13) bromomethane	4.654		0	N.D.		
14) chloroethane	0.000		0	N.D.		
15) ethanol	4.948	31	72811	4.724	ppbV	98
17) vinyl bromide	0.000		0	N.D.		
19) acetone	5.460	43	44659M6	2.037	ppbV	
21) trichlorofluoromethane	5.640	101	6155	0.228	ppbV	90
22) isopropyl alcohol	5.733	45	15861	0.557	ppbV	98
27) tertiary butyl alcohol	6.396		0	N.D.		
28) methylene chloride	6.462	49	10337	0.428	ppbV	92
29) 3-chloropropene	6.528		0	N.D.		
30) carbon disulfide	6.762		0	N.D.		
31) Freon 113	6.756	101	2287	0.065	ppbV	90
32) trans-1,2-dichloroethene	0.000		0	N.D.		
33) 1,1-dichloroethane	0.000		0	N.D.		
34) MTBE	7.767		0	N.D.		
36) 2-butanone	8.192	43	6818	0.155	ppbV	97
38) Ethyl Acetate	0.000		0	N.D.		
39) chloroform	9.008		0	N.D.		
40) Tetrahydrofuran	9.475	42	1126	0.045	ppbV	94
42) 1,2-dichloroethane	9.850		0	N.D.		
44) hexane	8.925	57	2114	0.068	ppbV #	4
50) benzene	10.657	78	11834	0.171	ppbV	99
53) cyclohexane	10.983		0	N.D.		
56) 1,2-dichloropropane	0.000		0	N.D.		

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab17\2024\02\0215T\
 Data File : r1738653.D
 Acq On : 15 Feb 2024 8:20 PM
 Operator : AIRLAB17:JMB
 Sample : L2407645-04,3,250,250
 Misc : WG1885731,ICAL20743
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 16 08:03:23 2024
 Quant Method : O:\Forensics\Data\Airlab17\2024\02\0215T\TFS17_240107.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Mon Jan 08 15:04:31 2024
 Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab17\2024\02\0215T\r1738648.D
 Sub List : TO15-NY-7-SIM - .

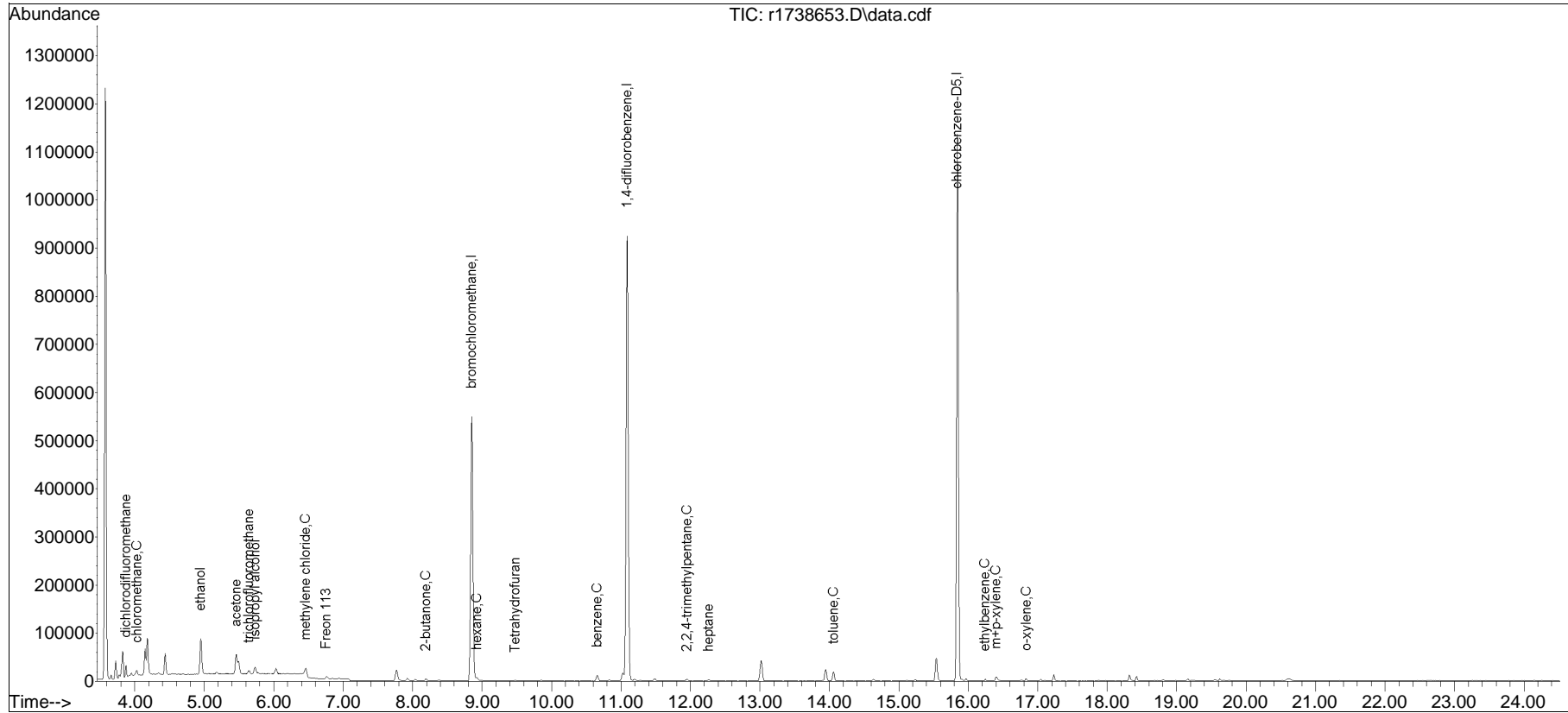
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
57) bromodichloromethane	0.000		0		N.D.	
58) 1,4-dioxane	0.000		0		N.D.	
60) 2,2,4-trimethylpentane	11.950	57	3897	0.038	ppbV #	82
62) heptane	12.263	43	3051	0.070	ppbV #	86
63) cis-1,3-dichloropropene	0.000		0		N.D.	
64) 4-methyl-2-pentanone	0.000		0		N.D. d	
65) trans-1,3-dichloropropene	0.000		0		N.D.	
66) 1,1,2-trichloroethane	0.000		0		N.D.	
68) toluene	14.058	91	14226	0.189	ppbV	99
72) 2-hexanone	14.342		0		N.D.	
74) dibromochloromethane	0.000		0		N.D.	
75) 1,2-dibromoethane	0.000		0		N.D.	
80) chlorobenzene	0.000		0		N.D.	
81) ethylbenzene	16.242	91	2924	0.031	ppbV	88
83) m+p-xylene	16.400	91	7085	0.094	ppbV	89
84) bromoform	0.000		0		N.D.	
85) styrene	16.725		0		N.D.	
86) 1,1,2,2-tetrachloroethane	16.833		0		N.D.	
87) o-xylene	16.833	91	3021	0.040	ppbV	98
96) 4-ethyl toluene	17.875		0		N.D.	
97) 1,3,5-trimethylbenzene	17.975		0		N.D.	
99) 1,2,4-trimethylbenzene	18.325		0		N.D.	
101) Benzyl Chloride	18.442		0		N.D.	
102) 1,3-dichlorobenzene	18.458		0		N.D.	
103) 1,4-dichlorobenzene	18.508		0		N.D.	
107) 1,2-dichlorobenzene	18.800		0		N.D.	
115) 1,2,4-trichlorobenzene	20.408		0		N.D.	
119) hexachlorobutadiene	0.000		0		N.D.	

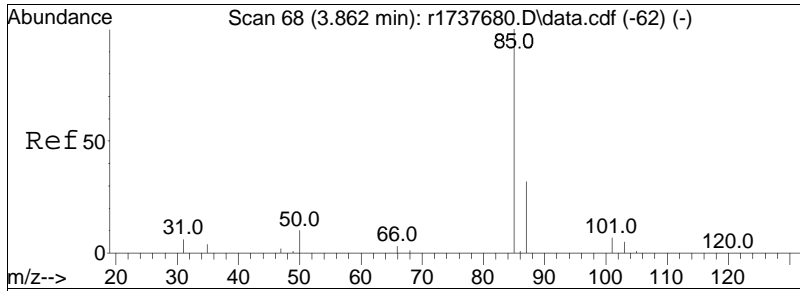
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sub List : TO15-NY-7-SIM - .\Airlab17\2024\02\0215T\r1738648.D

Data Path : O:\Forensics\Data\Airlab17\2024\02\0215T\
Data File : r1738653.D
Acq On : 15 Feb 2024 8:20 PM
Operator : AIRLAB17:JMB
Sample : L2407645-04,3,250,250
Misc : WG1885731,ICAL20743
ALS Vial : 0 Sample Multiplier: 1

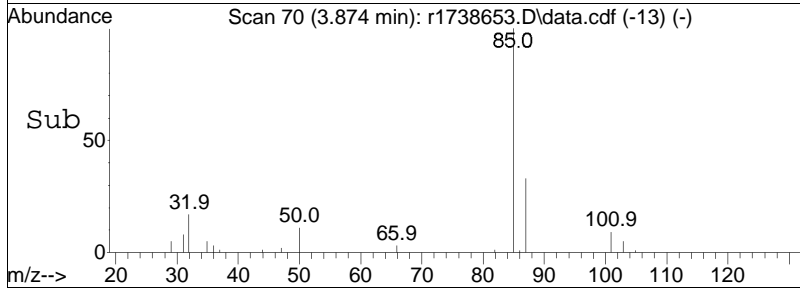
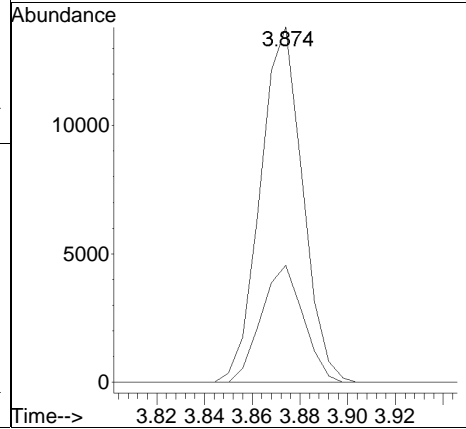
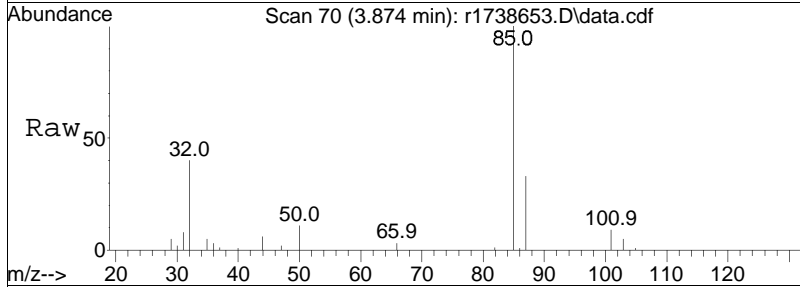
Quant Time: Feb 16 08:03:23 2024
Quant Method : O:\Forensics\Data\Airlab17\2024\02\0215T\TFS17_240107.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Mon Jan 08 15:04:31 2024
Response via : Initial Calibration

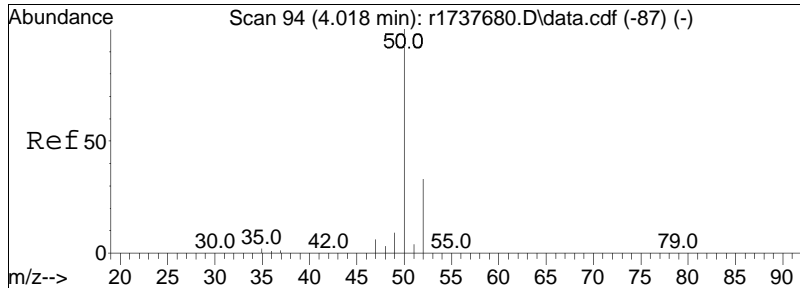




#5
dichlorodifluoromethane
Concen: 0.50 ppbV
RT: 3.874 min Scan# 70
Delta R.T. 0.012 min
Lab File: r1738653.D
Acq: 15 Feb 2024 8:20 PM

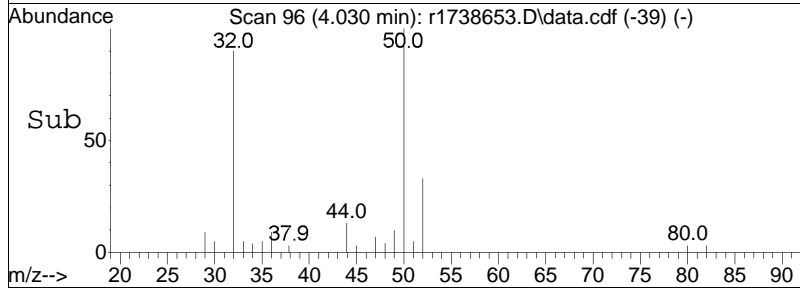
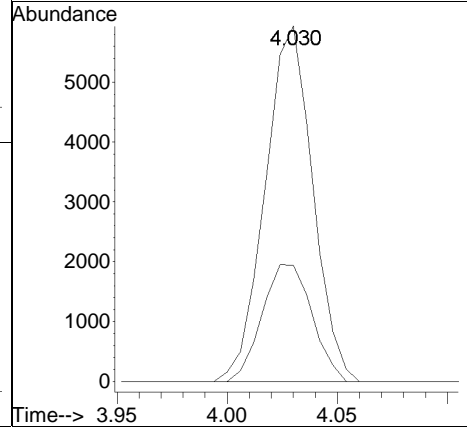
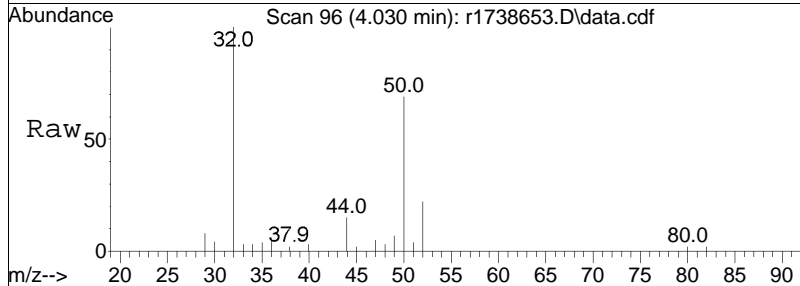
Tgt Ion	85	87	Ratio	100	32.9	Lower	25.4	Upper	38.0
Resp:	17031								

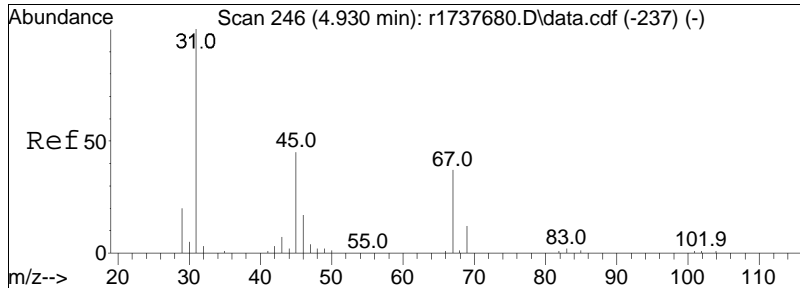




#6
 chloromethane
 Concen: 0.49 ppbV
 RT: 4.030 min Scan# 96
 Delta R.T. 0.012 min
 Lab File: r1738653.D
 Acq: 15 Feb 2024 8:20 PM

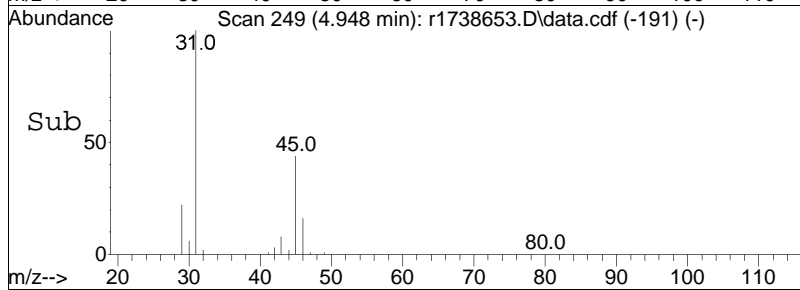
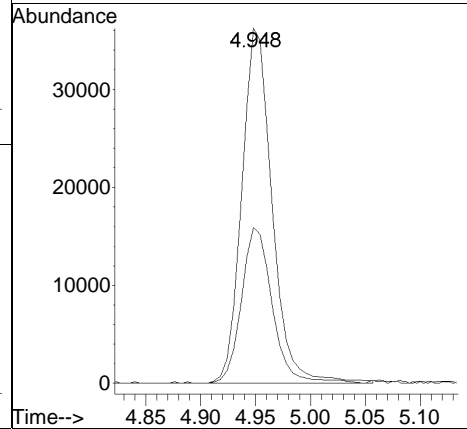
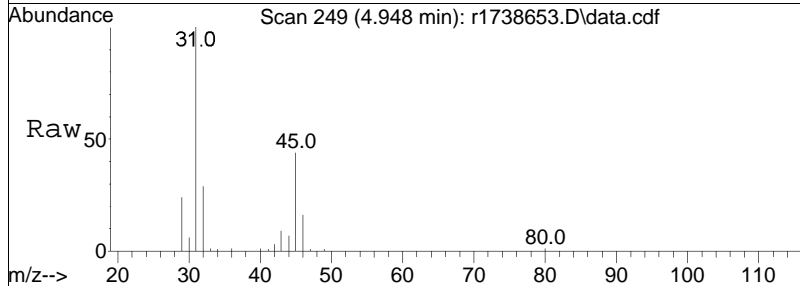
Tgt Ion:	50	Resp:	8907
Ion Ratio	100	Lower	Upper
52	32.7	26.4	39.6

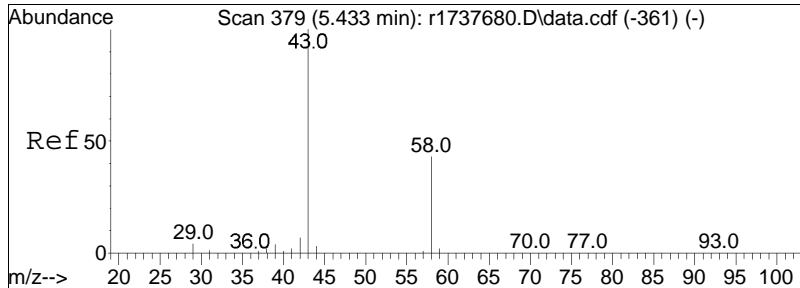




#15
 ethanol
 Concen: 4.72 ppbV
 RT: 4.948 min Scan# 249
 Delta R.T. 0.018 min
 Lab File: r1738653.D
 Acq: 15 Feb 2024 8:20 PM

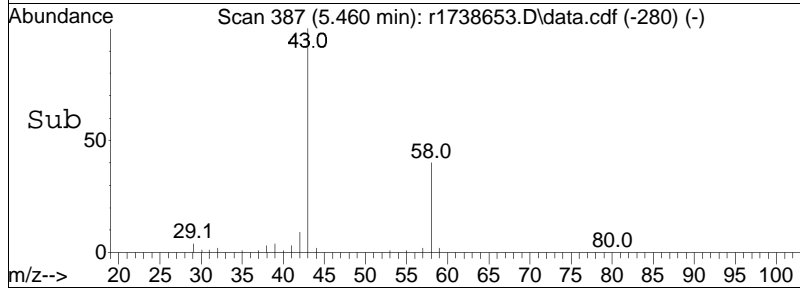
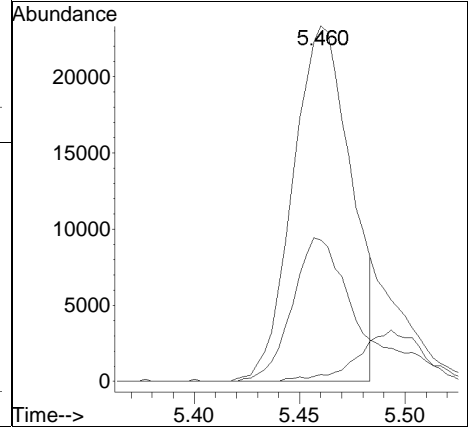
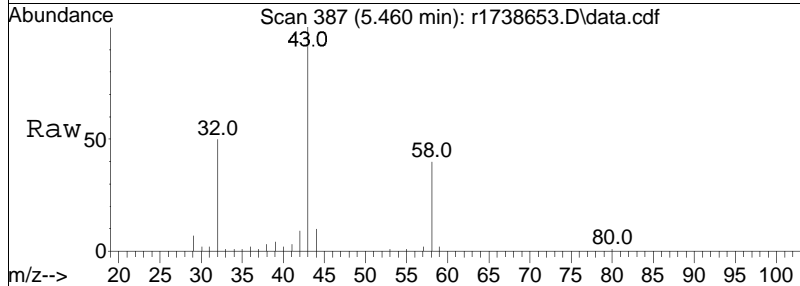
Tgt Ion:	31	Resp:	72811
Ion Ratio	Lower	Upper	
31	100		
45	43.9	36.3	54.5

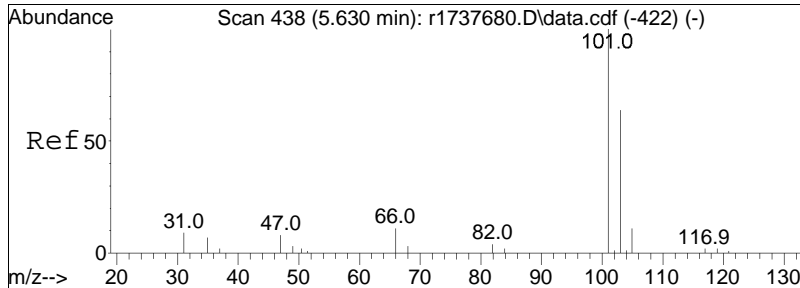




#19
 acetone
 Concen: 2.04 ppbV m
 RT: 5.460 min Scan# 387
 Delta R.T. 0.027 min
 Lab File: r1738653.D
 Acq: 15 Feb 2024 8:20 PM

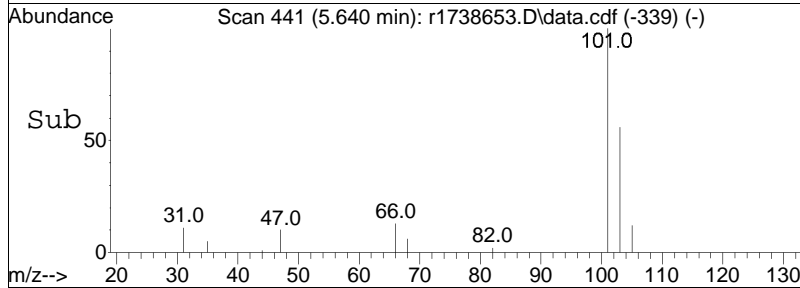
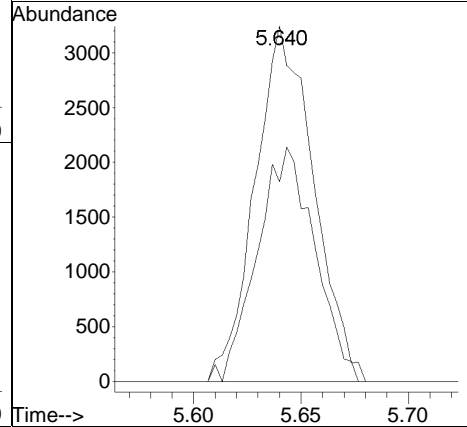
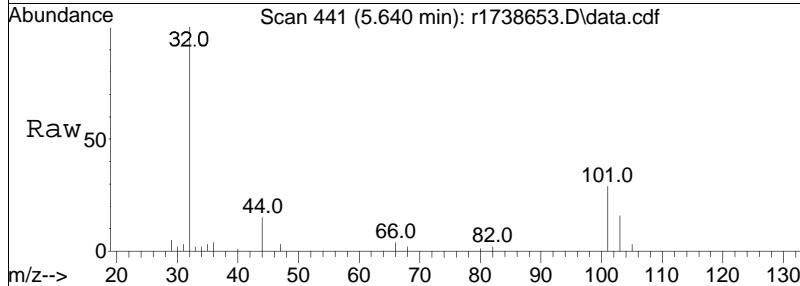
Tgt Ion	Resp	Lower	Upper
43	100		
58	39.8	34.0	51.0
57	1.9	0.9	1.3#

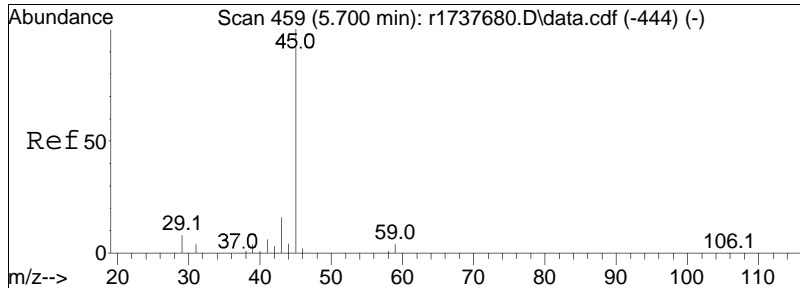




#21
 trichlorofluoromethane
 Concen: 0.23 ppbV
 RT: 5.640 min Scan# 441
 Delta R.T. 0.010 min
 Lab File: r1738653.D
 Acq: 15 Feb 2024 8:20 PM

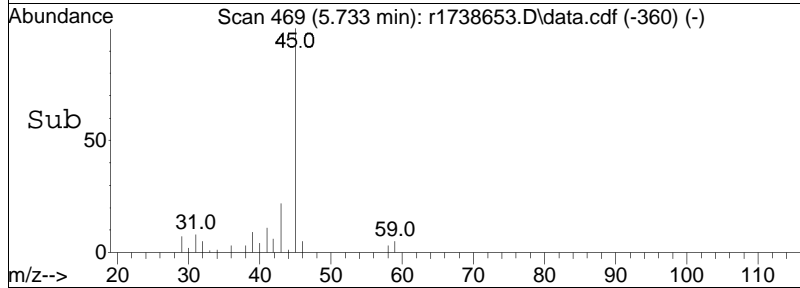
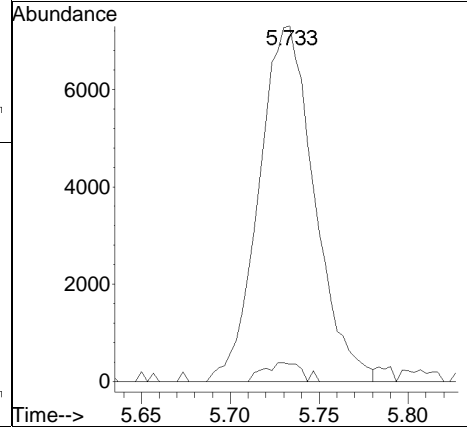
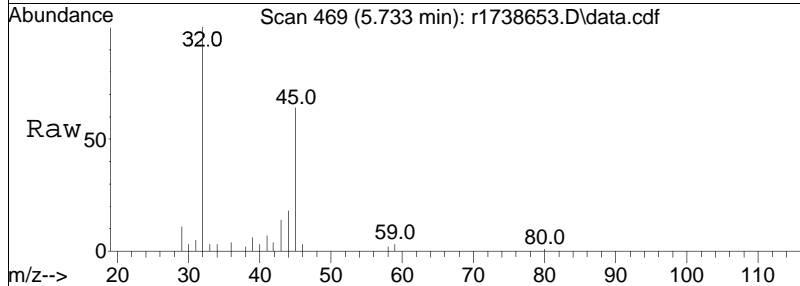
Tgt Ion: 101 Resp: 6155
 Ion Ratio Lower Upper
 101 100
 103 56.1 51.2 76.8

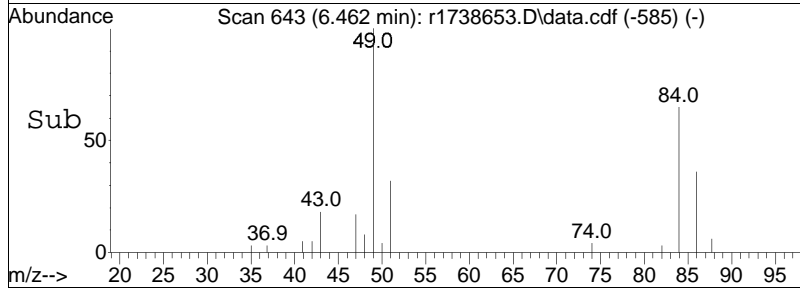
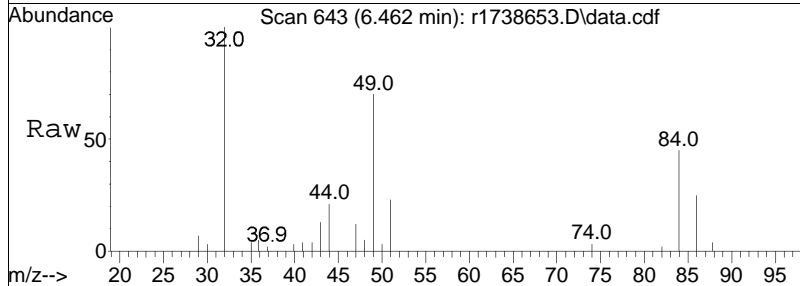
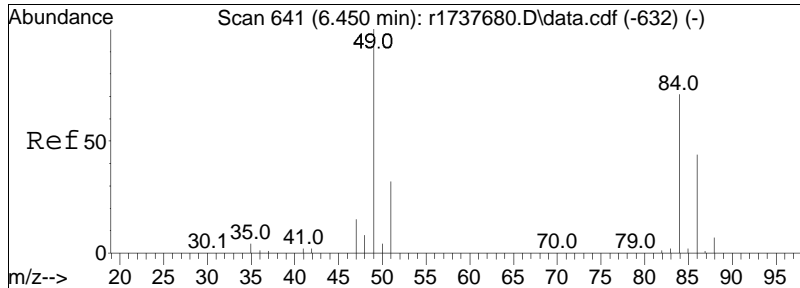




#22
 isopropyl alcohol
 Concen: 0.56 ppbV
 RT: 5.733 min Scan# 469
 Delta R.T. 0.033 min
 Lab File: r1738653.D
 Acq: 15 Feb 2024 8:20 PM

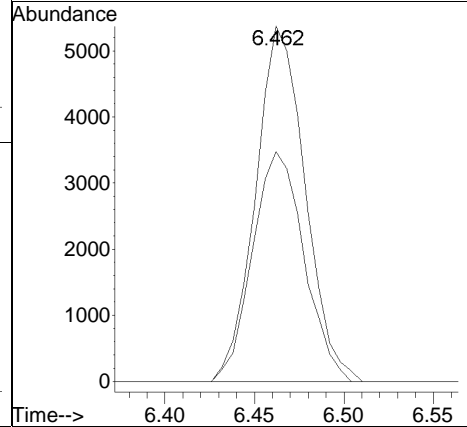
Tgt Ion:	45	59	Resp:	15861
Ion Ratio	100	4.9	Lower	Upper
			3.4	5.2

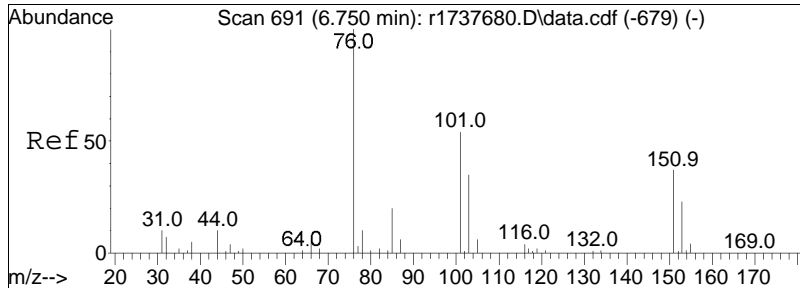




#28
 methylene chloride
 Concen: 0.43 ppbV
 RT: 6.462 min Scan# 643
 Delta R.T. 0.012 min
 Lab File: r1738653.D
 Acq: 15 Feb 2024 8:20 PM

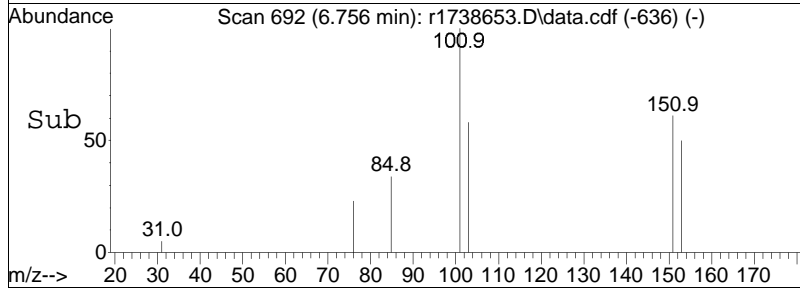
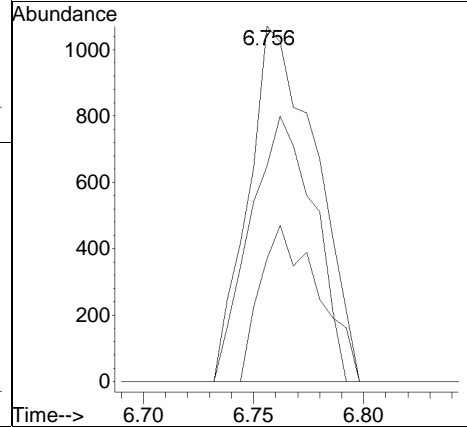
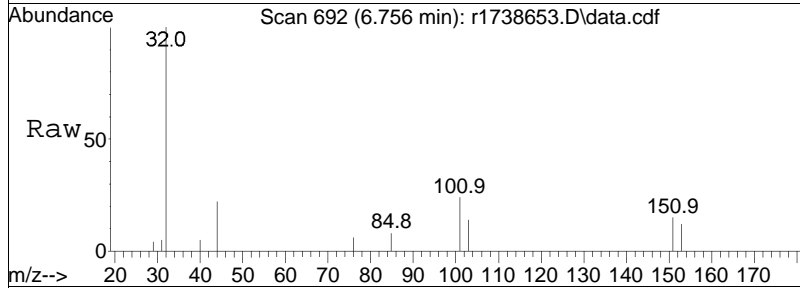
Tgt Ion:	49	84	Resp:	10337
Ion Ratio	100	64.7	Lower	Upper
			56.7	85.1

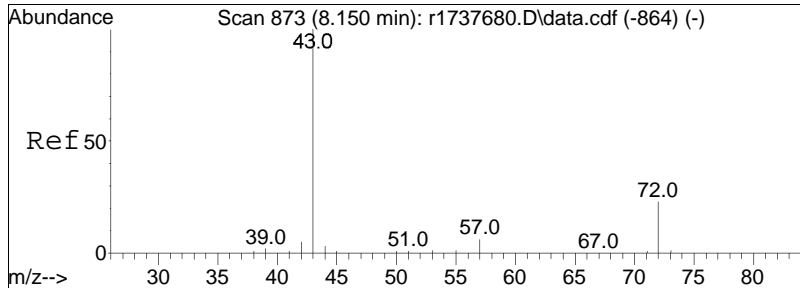




#31
 Freon 113
 Concen: 0.07 ppbV
 RT: 6.756 min Scan# 692
 Delta R.T. 0.006 min
 Lab File: r1738653.D
 Acq: 15 Feb 2024 8:20 PM

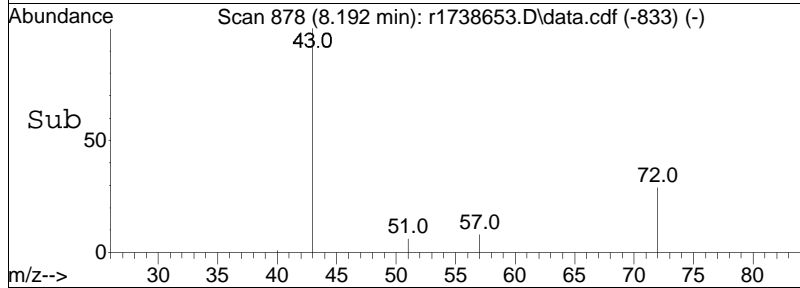
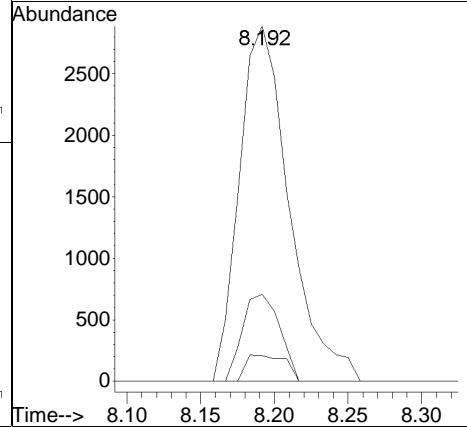
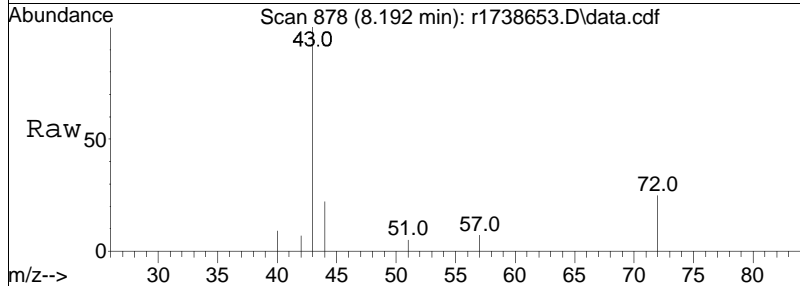
Tgt Ion	Ratio	Lower	Upper
101	100		
85	34.5	30.5	45.7
151	60.5	56.0	84.0

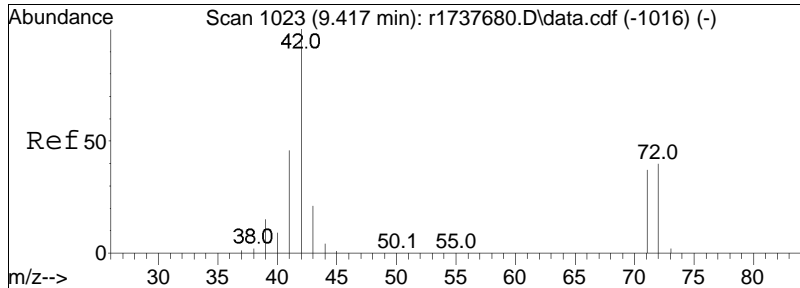




#36
 2-butanone
 Concen: 0.15 ppbV
 RT: 8.192 min Scan# 878
 Delta R.T. 0.042 min
 Lab File: r1738653.D
 Acq: 15 Feb 2024 8:20 PM

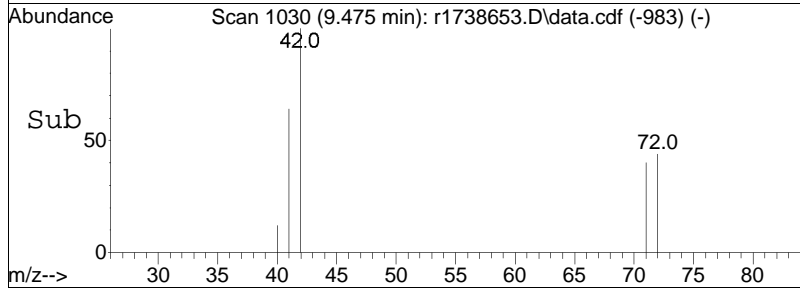
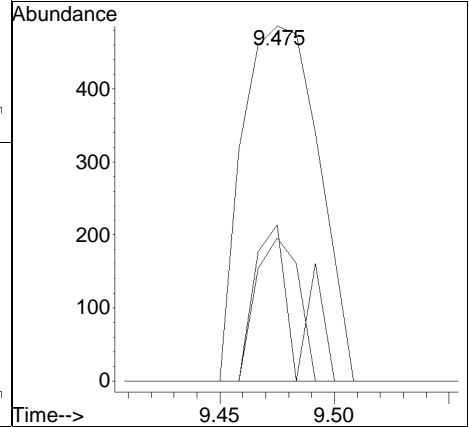
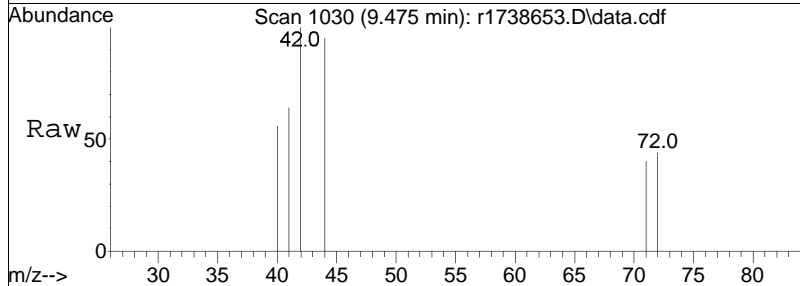
Tgt Ion	Ratio	Lower	Upper
43	100		
72	24.5	18.3	27.5
57	7.2	5.0	7.6

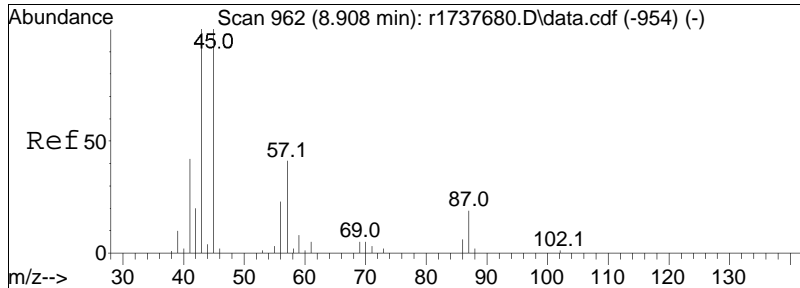




#40
 Tetrahydrofuran
 Concen: 0.05 ppbV
 RT: 9.475 min Scan# 1030
 Delta R.T. 0.058 min
 Lab File: r1738653.D
 Acq: 15 Feb 2024 8:20 PM

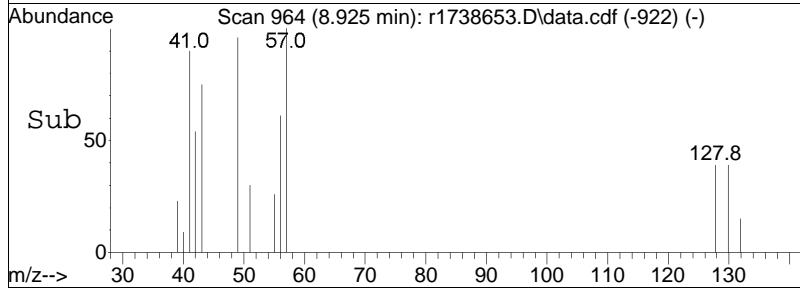
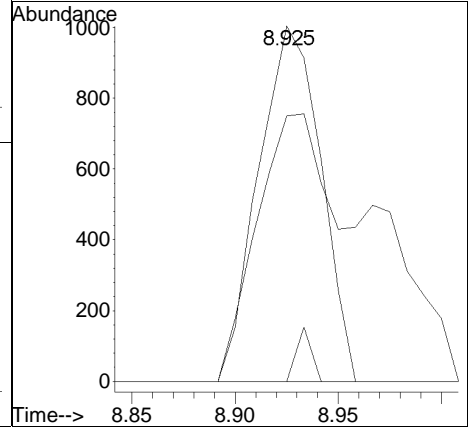
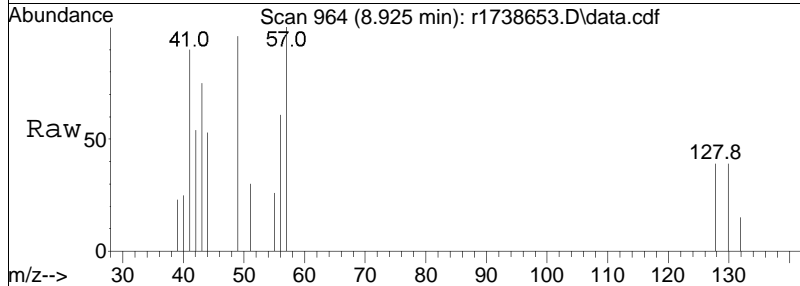
Tgt Ion:	Resp:		
Ion	Ratio	Lower	Upper
42	100		
71	40.3	30.0	45.0
72	44.0	31.9	47.9

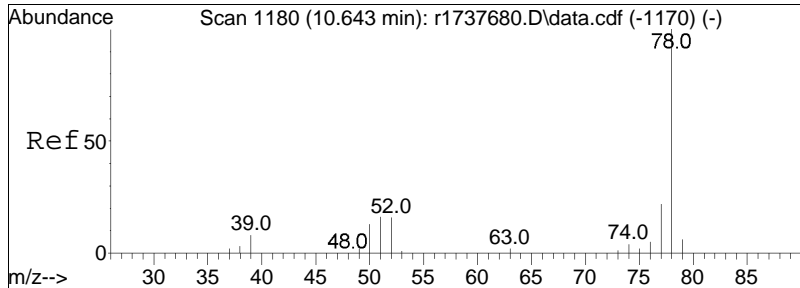




#44
 hexane
 Concen: 0.07 ppbV
 RT: 8.925 min Scan# 964
 Delta R.T. 0.017 min
 Lab File: r1738653.D
 Acq: 15 Feb 2024 8:20 PM

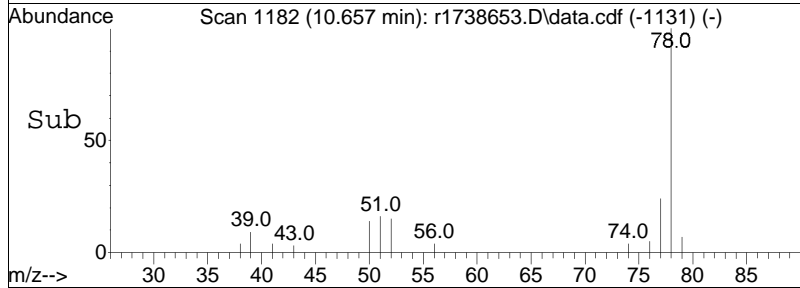
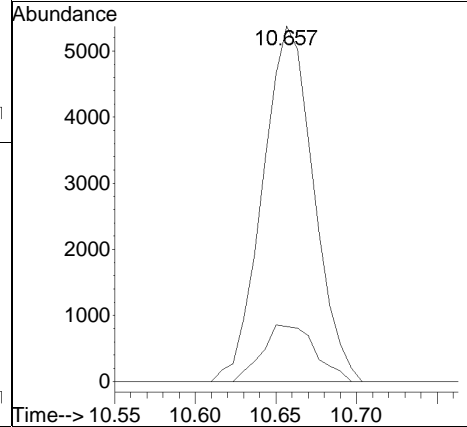
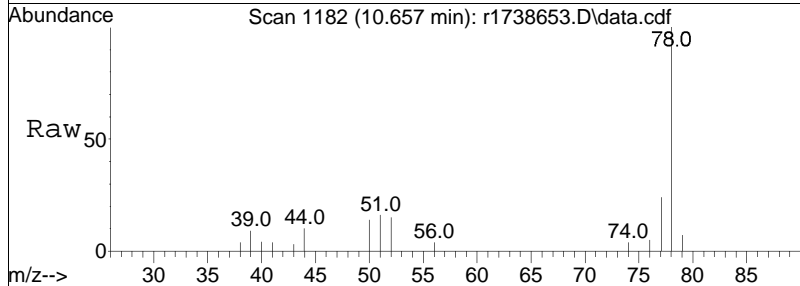
Tgt Ion:	Resp:		
Ion	Ratio	Lower	Upper
57	100		
43	74.7	197.0	295.6#
86	0.0	12.6	19.0#

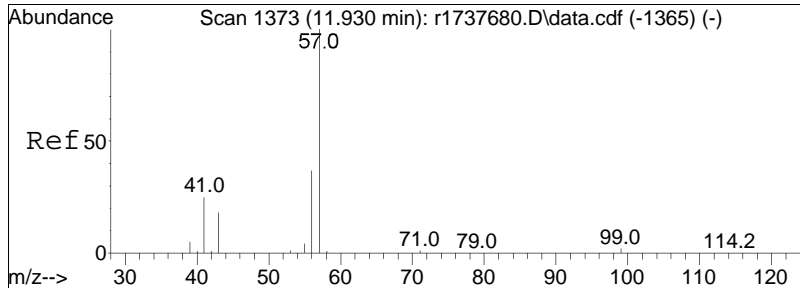




#50
benzene
Concen: 0.17 ppbV
RT: 10.657 min Scan# 1182
Delta R.T. 0.013 min
Lab File: r1738653.D
Acq: 15 Feb 2024 8:20 PM

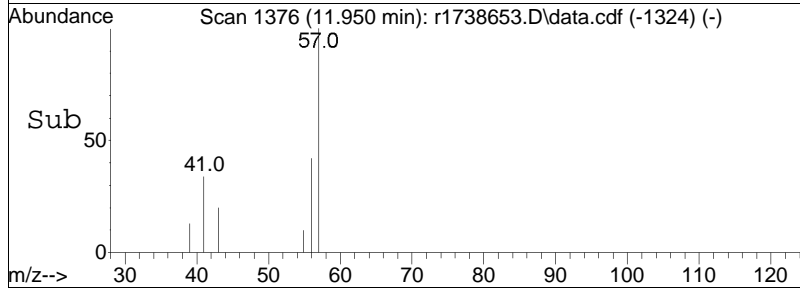
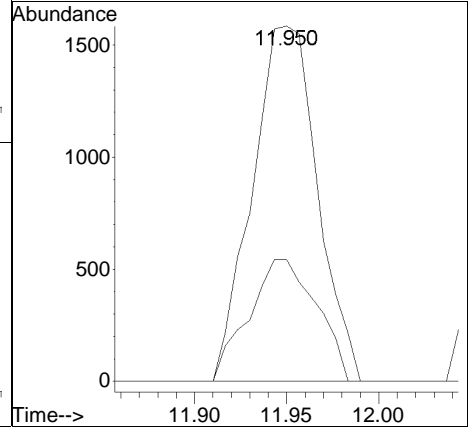
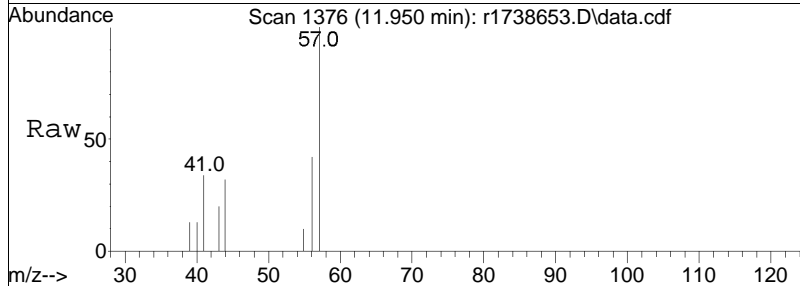
Tgt Ion	Resp	Lower	Upper
78	100		
52	15.5	12.7	19.1

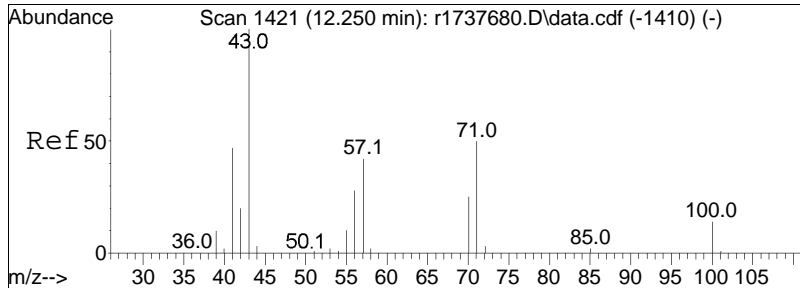




#60
 2,2,4-trimethylpentane
 Concen: 0.04 ppbV
 RT: 11.950 min Scan# 1376
 Delta R.T. 0.020 min
 Lab File: r1738653.D
 Acq: 15 Feb 2024 8:20 PM

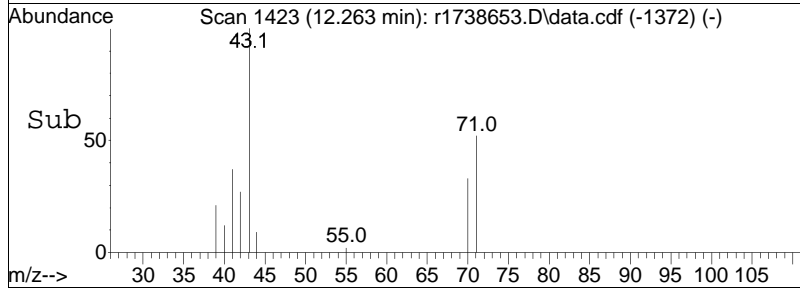
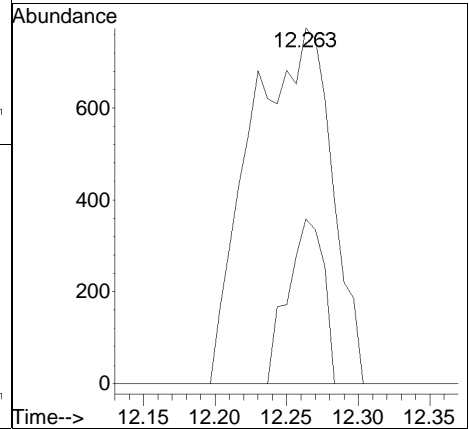
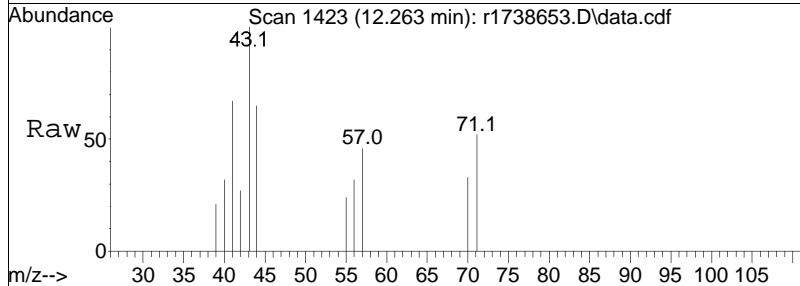
Tgt Ion	Resp	Lower	Upper
57	100		
99	0.0	4.0	6.0#
41	34.2	19.8	29.6#

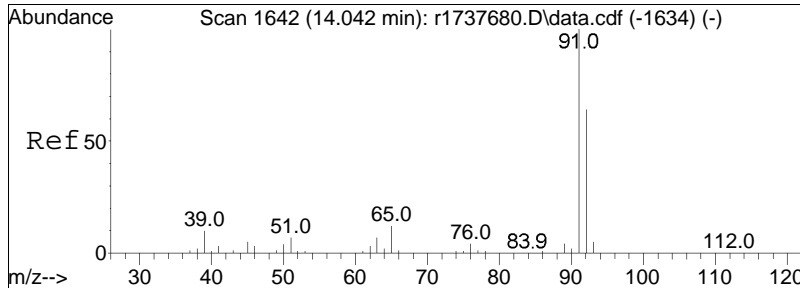




#62
 heptane
 Concen: 0.07 ppbV
 RT: 12.263 min Scan# 1423
 Delta R.T. 0.013 min
 Lab File: r1738653.D
 Acq: 15 Feb 2024 8:20 PM

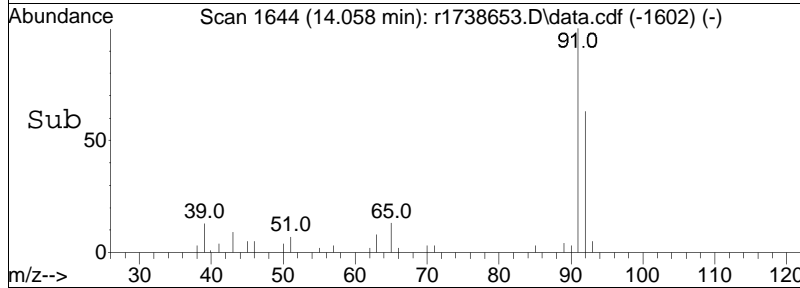
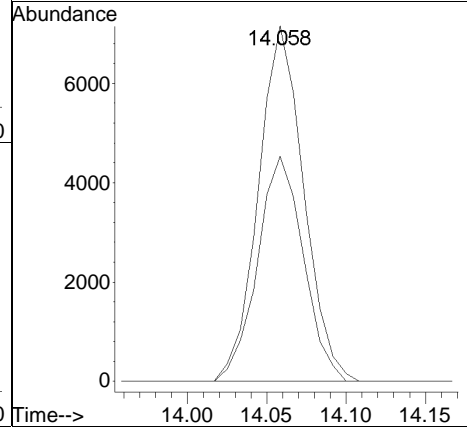
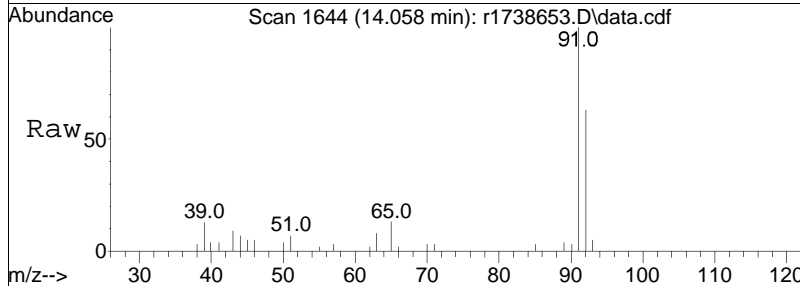
Tgt Ion	Resp	Lower	Upper
43	100		
57	46.3	33.5	50.3
100	0.0	11.3	16.9#

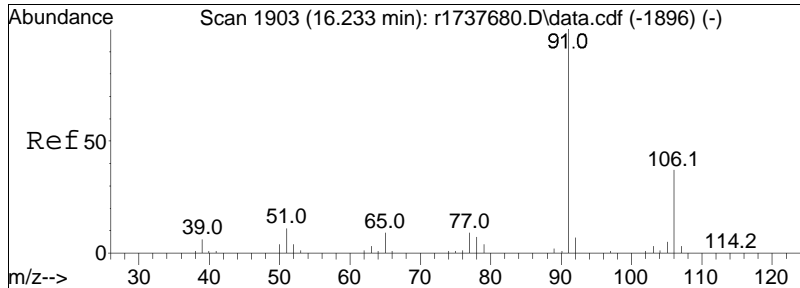




#68
 toluene
 Concen: 0.19 ppbV
 RT: 14.058 min Scan# 1644
 Delta R.T. 0.017 min
 Lab File: r1738653.D
 Acq: 15 Feb 2024 8:20 PM

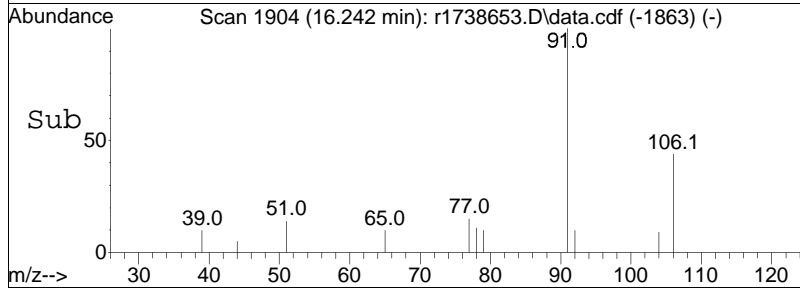
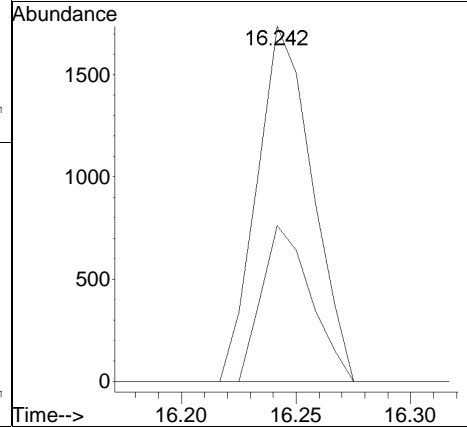
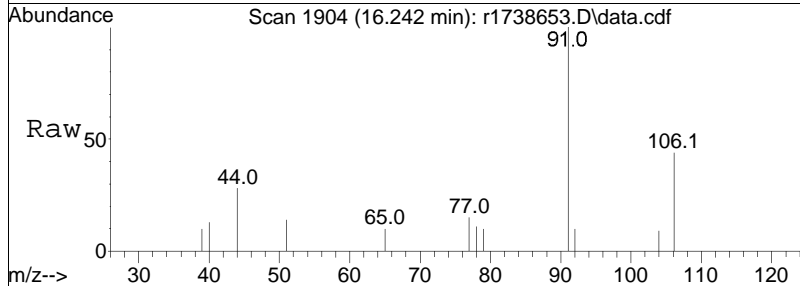
Tgt Ion:	91	92	Resp:	14226
Ion Ratio	100	63.4	Lower	Upper
			51.2	76.8

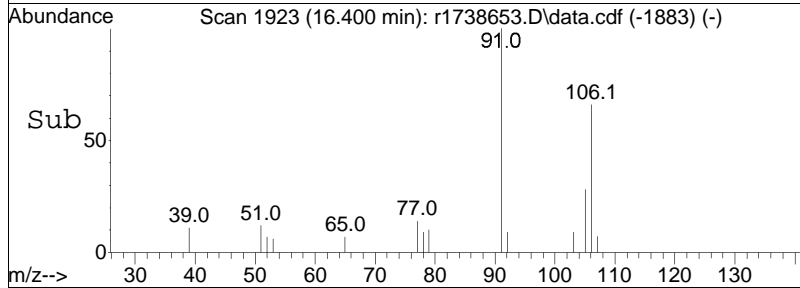
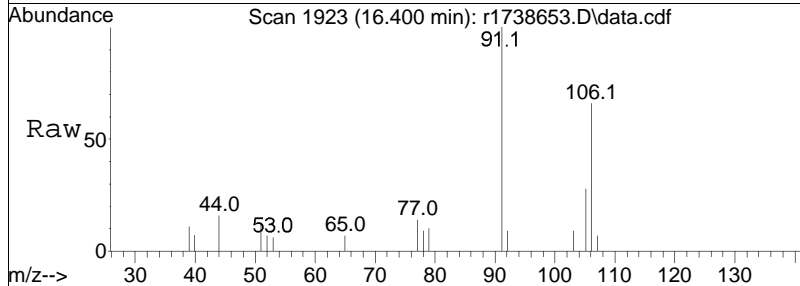
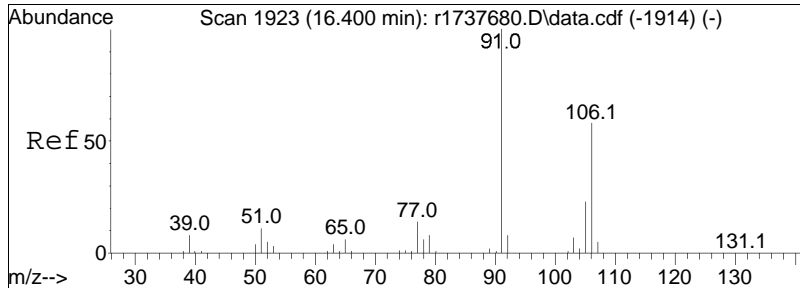




#81
 ethylbenzene
 Concen: 0.03 ppbV
 RT: 16.242 min Scan# 1904
 Delta R.T. 0.008 min
 Lab File: r1738653.D
 Acq: 15 Feb 2024 8:20 PM

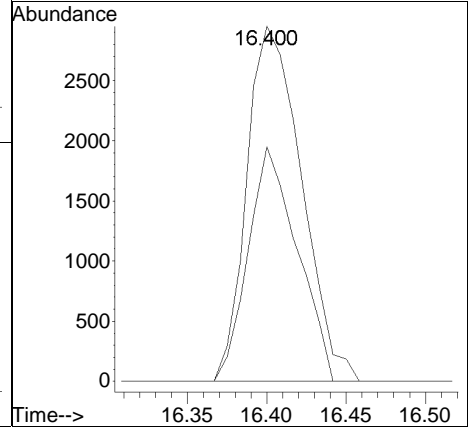
Tgt Ion: 91 Resp: 2924
 Ion Ratio Lower Upper
 91 100
 106 43.8 29.4 44.0

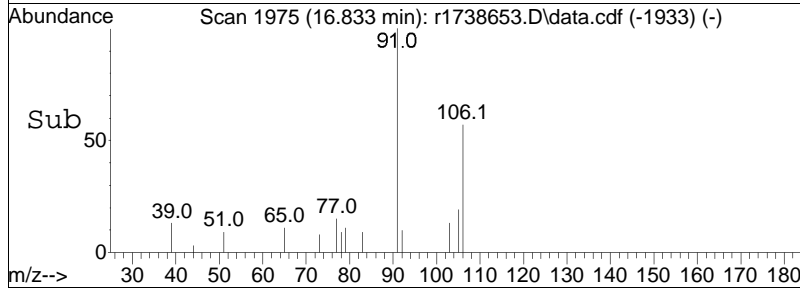
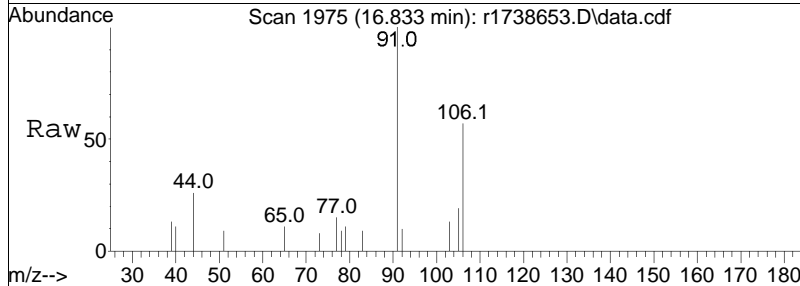
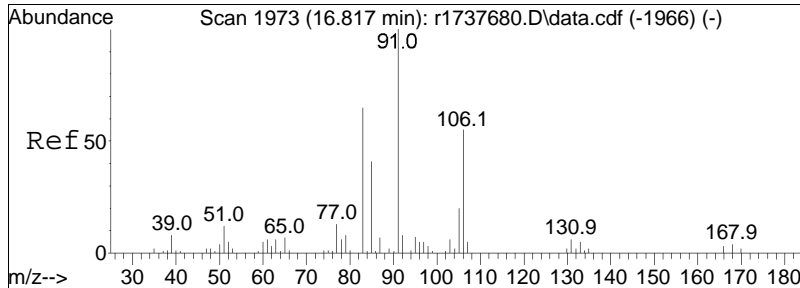




#83
 m+p-xylene
 Concen: 0.09 ppbV
 RT: 16.400 min Scan# 1923
 Delta R.T. 0.000 min
 Lab File: r1738653.D
 Acq: 15 Feb 2024 8:20 PM

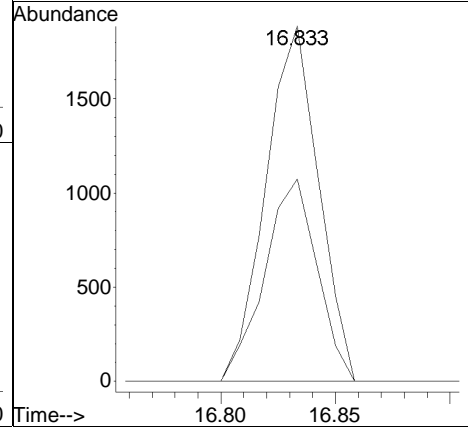
Tgt Ion: 91 Resp: 7085
 Ion Ratio Lower Upper
 91 100
 106 66.0 46.1 69.1





#87
 o-xylene
 Concen: 0.04 ppbV
 RT: 16.833 min Scan# 1975
 Delta R.T. 0.017 min
 Lab File: r1738653.D
 Acq: 15 Feb 2024 8:20 PM

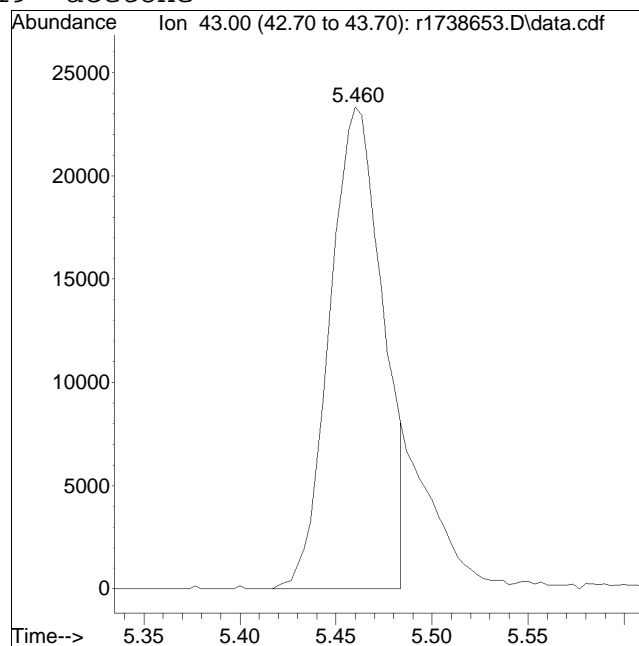
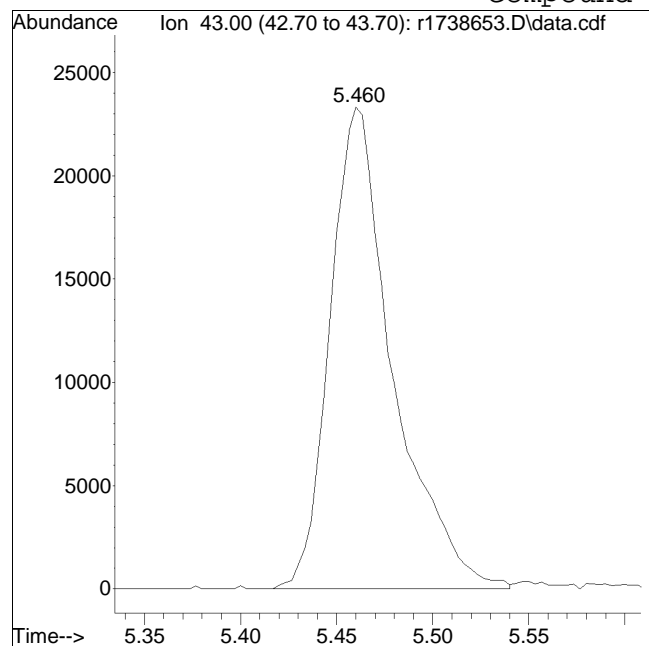
Tgt Ion: 91 Resp: 3021
 Ion Ratio Lower Upper
 91 100
 106 56.9 44.2 66.4



Manual Integration Report

Data Path : O:\Forensics\Data\Airlab17QMethod : TFS17_240107.M
Data File : r1738653.D Operator : AIRLAB17:JMB
Date Inj'd : 2/15/2020 0:8: 0 Instrument :
Sample : L2407645-04,3,250,250 Quant Date : 2/16/2024 8:03 am

Compound #19: acetone



Original Peak Response = 53105

Manual Peak Response = 44659 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab17\2024\02\0215T\
 Data File : r1738654.D
 Acq On : 15 Feb 2024 8:59 PM
 Operator : AIRLAB17:JMB
 Sample : L2407645-01,3,250,250
 Misc : WG1885731,ICAL20743
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 16 08:03:38 2024
 Quant Method : O:\Forensics\Data\Airlab17\2024\02\0215T\TFS17_240107.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Mon Jan 08 15:04:31 2024
 Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab17\2024\02\0215T\r1738648.D
 Sub List : TO15-NY-7-SIM - .

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	8.850	49	366982	10.000	ppbV	0.00
Standard Area =	370847		Recovery =	98.96%		
43) 1,4-difluorobenzene	11.083	114	969372	10.000	ppbV	0.01
Standard Area =	986523		Recovery =	98.26%		
67) chlorobenzene-D5	15.842	54	139559	10.000	ppbV	0.00
Standard Area =	142298		Recovery =	98.08%		

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) dichlorodifluoromethane	3.874	85	16975	0.488	ppbV	99
6) chloromethane	4.030	50	8971	0.485	ppbV	97
7) Freon-114	4.132		0	N.D.		
10) 1,3-butadiene	4.378		0	N.D.		
13) bromomethane	0.000		0	N.D.		
14) chloroethane	0.000		0	N.D.		
15) ethanol	4.948	31	124832	7.948	ppbV	99
17) vinyl bromide	0.000		0	N.D.		
19) acetone	5.460	43	49268M6	2.205	ppbV	
21) trichlorofluoromethane	5.640	101	6094	0.221	ppbV	91
22) isopropyl alcohol	5.727	45	27130	0.934	ppbV	99
27) tertiary butyl alcohol	6.390	59	6944	0.205	ppbV #	67
28) methylene chloride	6.462	49	6841	0.278	ppbV	94
29) 3-chloropropene	6.462		0	N.D.		
30) carbon disulfide	6.756		0	N.D.		
31) Freon 113	6.762	101	2353	0.066	ppbV	92
32) trans-1,2-dichloroethene	0.000		0	N.D.		
33) 1,1-dichloroethane	0.000		0	N.D.		
34) MTBE	0.000		0	N.D.		
36) 2-butanone	8.183	43	7383	0.165	ppbV	96
38) Ethyl Acetate	0.000		0	N.D.		
39) chloroform	9.000		0	N.D.		
40) Tetrahydrofuran	9.467	42	2542	0.100	ppbV	96
42) 1,2-dichloroethane	9.833		0	N.D.		
44) hexane	8.925	57	2165	0.068	ppbV #	9
50) benzene	10.657	78	12494	0.174	ppbV	100
53) cyclohexane	10.970		0	N.D.		
56) 1,2-dichloropropane	0.000		0	N.D.		

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab17\2024\02\0215T\
 Data File : r1738654.D
 Acq On : 15 Feb 2024 8:59 PM
 Operator : AIRLAB17:JMB
 Sample : L2407645-01,3,250,250
 Misc : WG1885731,ICAL20743
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 16 08:03:38 2024
 Quant Method : O:\Forensics\Data\Airlab17\2024\02\0215T\TFS17_240107.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Mon Jan 08 15:04:31 2024
 Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab17\2024\02\0215T\r1738648.D
 Sub List : TO15-NY-7-SIM - .

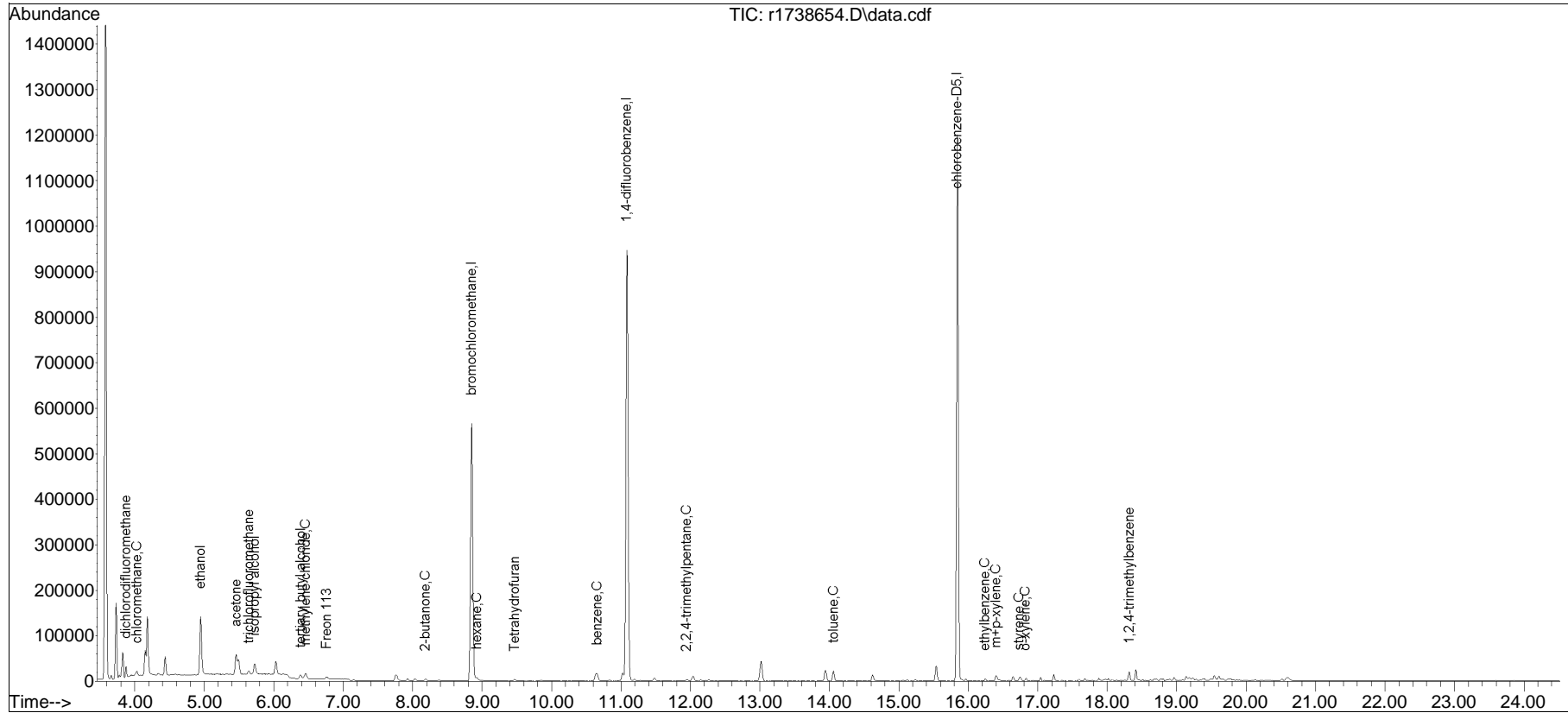
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
57) bromodichloromethane	0.000		0		N.D.		
58) 1,4-dioxane	0.000		0		N.D.		
60) 2,2,4-trimethylpentane	11.943	57	3655	0.034	ppbV #		95
62) heptane	0.000		0		N.D. d		
63) cis-1,3-dichloropropene	0.000		0		N.D.		
64) 4-methyl-2-pentanone	0.000		0		N.D. d		
65) trans-1,3-dichloropropene	0.000		0		N.D.		
66) 1,1,2-trichloroethane	0.000		0		N.D.		
68) toluene	14.058	91	17345	0.226	ppbV		97
72) 2-hexanone	14.342		0		N.D.		
74) dibromochloromethane	0.000		0		N.D.		
75) 1,2-dibromoethane	0.000		0		N.D.		
80) chlorobenzene	15.883		0		N.D.		
81) ethylbenzene	16.242	91	3804	0.039	ppbV		97
83) m+p-xylene	16.400	91	9603	0.125	ppbV		92
84) bromoform	0.000		0		N.D.		
85) styrene	16.733	104	3102	0.048	ppbV #		89
86) 1,1,2,2-tetrachloroethane	0.000		0		N.D.		
87) o-xylene	16.825	91	4050	0.053	ppbV		93
96) 4-ethyl toluene	17.908		0		N.D.		
97) 1,3,5-trimethylbenzene	17.967		0		N.D.		
99) 1,2,4-trimethylbenzene	18.317	105	4756	0.052	ppbV #		56
101) Benzyl Chloride	18.317		0		N.D.		
102) 1,3-dichlorobenzene	18.508		0		N.D.		
103) 1,4-dichlorobenzene	18.508		0		N.D.		
107) 1,2-dichlorobenzene	0.000		0		N.D.		
115) 1,2,4-trichlorobenzene	0.000		0		N.D.		
119) hexachlorobutadiene	0.000		0		N.D.		

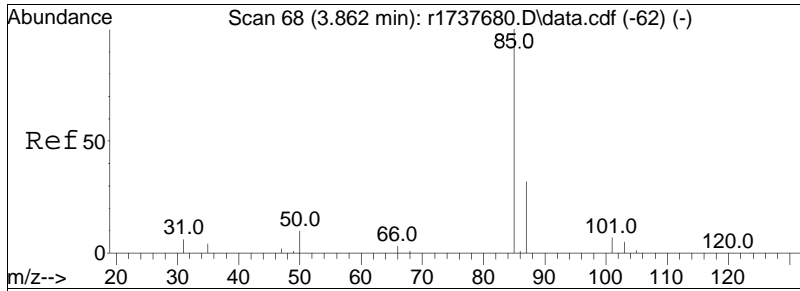
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sub List : TO15-NY-7-SIM - .\Airlab17\2024\02\0215T\r1738648.D

Data Path : O:\Forensics\Data\Airlab17\2024\02\0215T\
Data File : r1738654.D
Acq On : 15 Feb 2024 8:59 PM
Operator : AIRLAB17:JMB
Sample : L2407645-01,3,250,250
Misc : WG1885731,ICAL20743
ALS Vial : 0 Sample Multiplier: 1

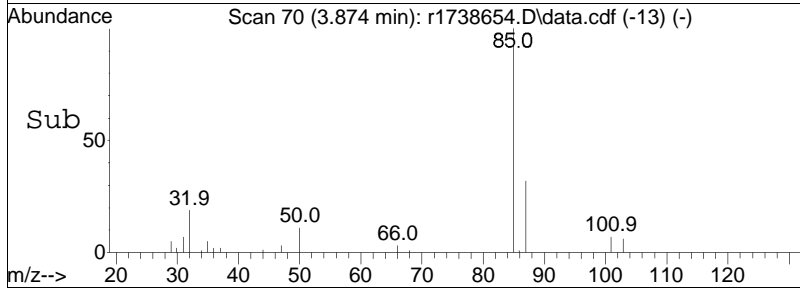
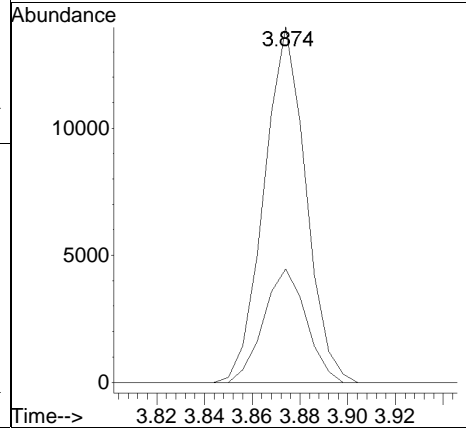
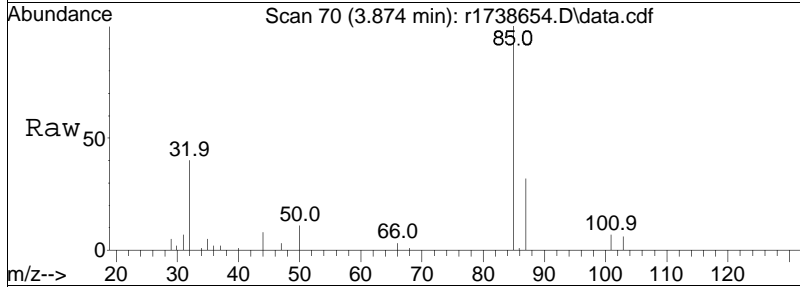
Quant Time: Feb 16 08:03:38 2024
Quant Method : O:\Forensics\Data\Airlab17\2024\02\0215T\TFS17_240107.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Mon Jan 08 15:04:31 2024
Response via : Initial Calibration

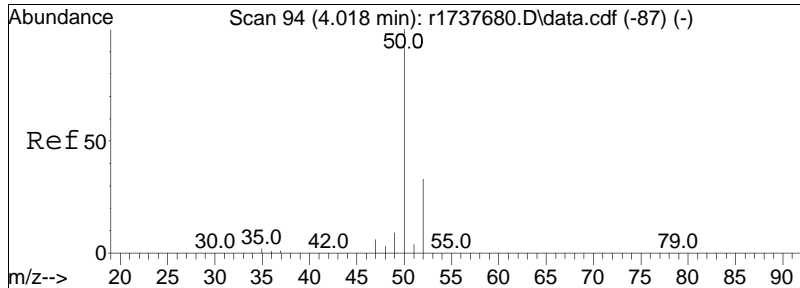




#5
dichlorodifluoromethane
Concen: 0.49 ppbV
RT: 3.874 min Scan# 70
Delta R.T. 0.012 min
Lab File: r1738654.D
Acq: 15 Feb 2024 8:59 PM

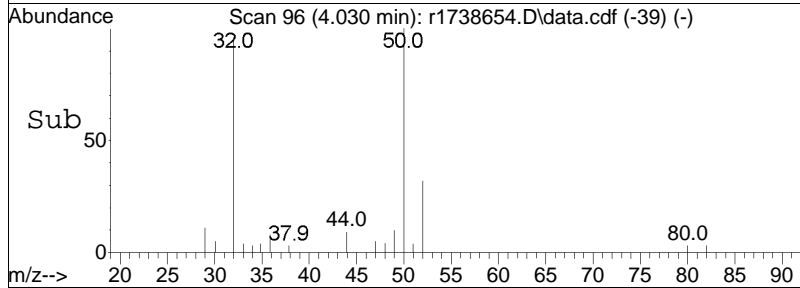
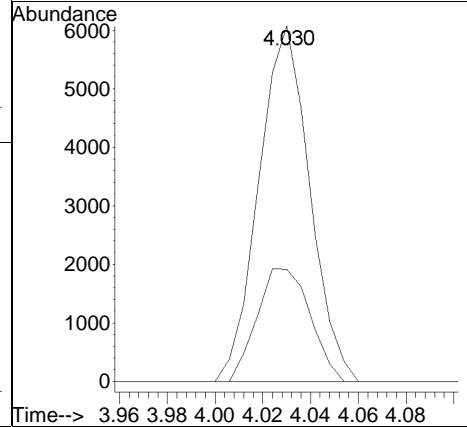
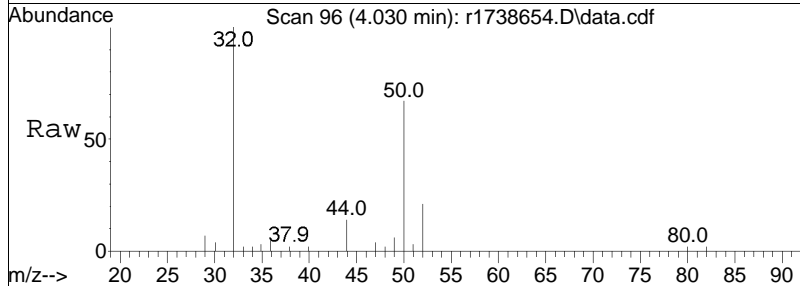
Tgt Ion: 85 Resp: 16975
Ion Ratio Lower Upper
85 100
87 32.0 25.4 38.0

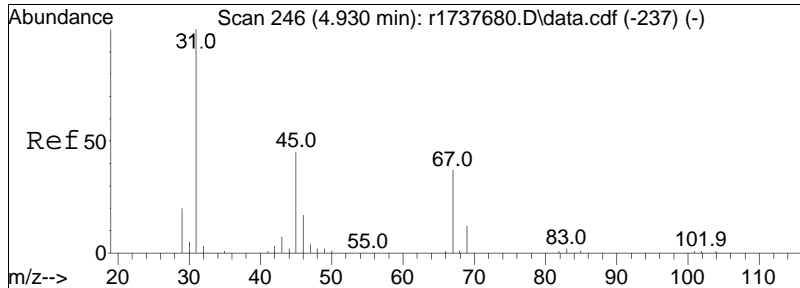




#6
 chloromethane
 Concen: 0.49 ppbV
 RT: 4.030 min Scan# 96
 Delta R.T. 0.012 min
 Lab File: r1738654.D
 Acq: 15 Feb 2024 8:59 PM

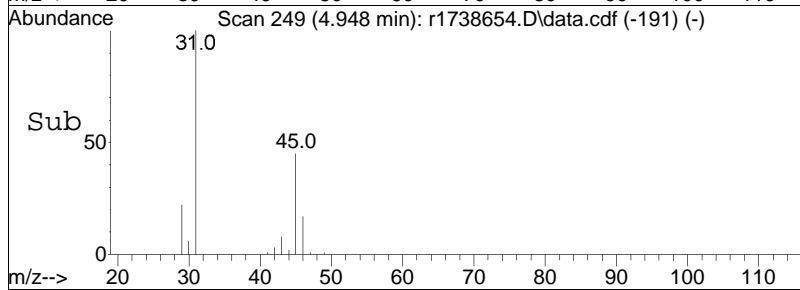
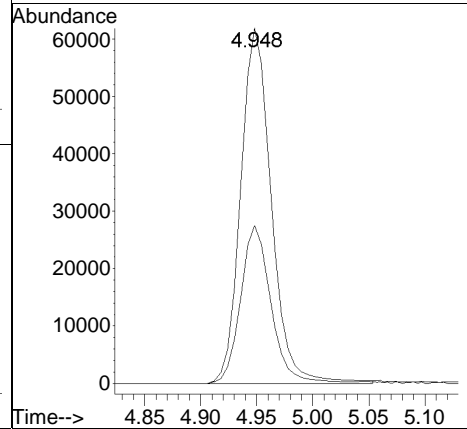
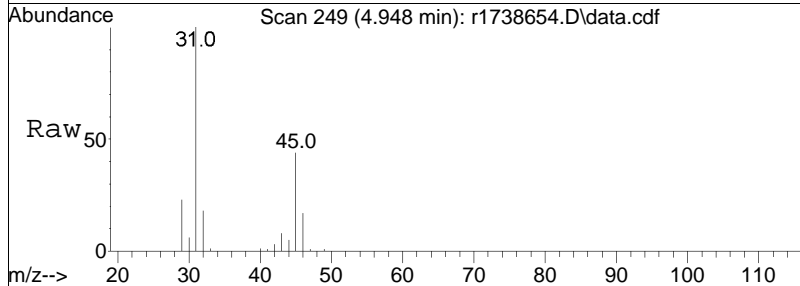
Tgt Ion	Resp	Lower	Upper
50	100		
52	31.5	26.4	39.6

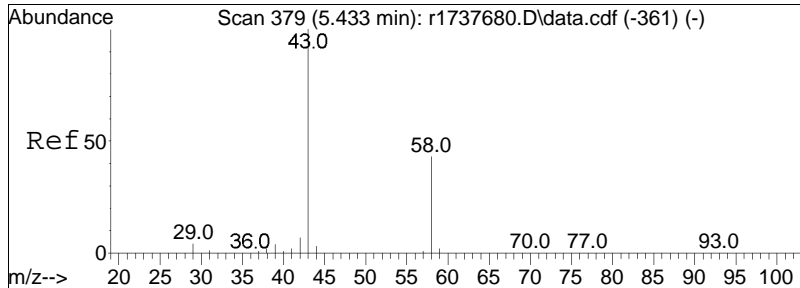




#15
 ethanol
 Concen: 7.95 ppbV
 RT: 4.948 min Scan# 249
 Delta R.T. 0.018 min
 Lab File: r1738654.D
 Acq: 15 Feb 2024 8:59 PM

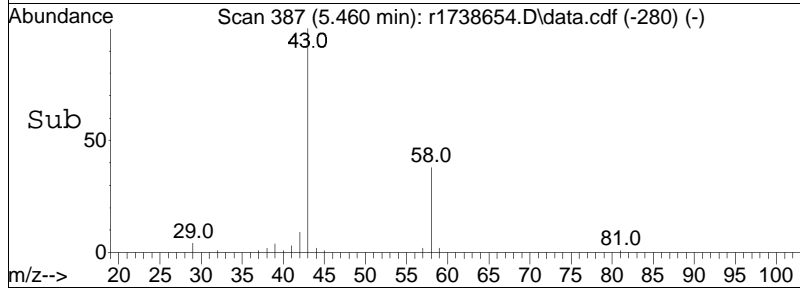
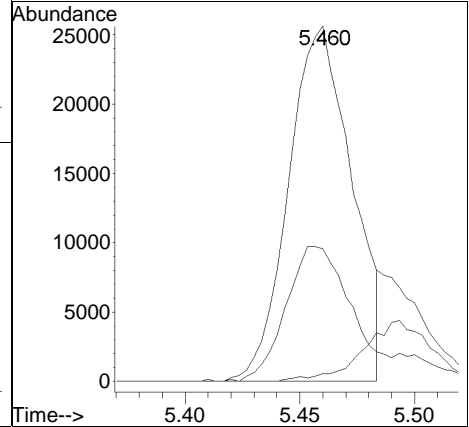
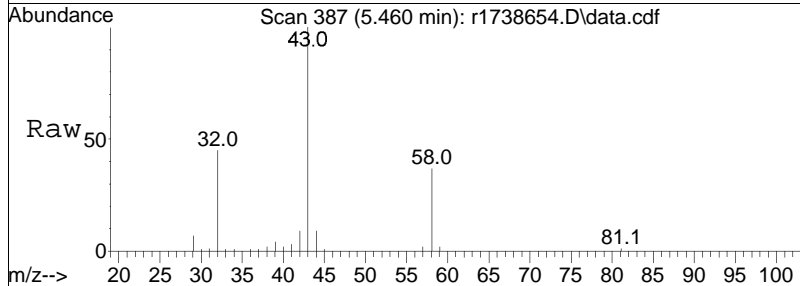
Tgt Ion:	31	Resp:	124832
Ion Ratio	Lower	Upper	
31	100		
45	44.5	36.3	54.5

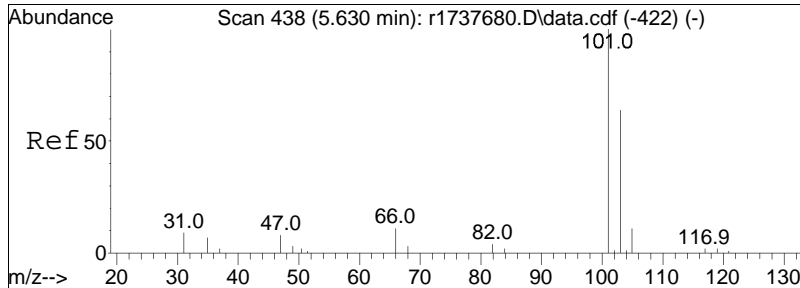




#19
 acetone
 Concen: 2.21 ppbV m
 RT: 5.460 min Scan# 387
 Delta R.T. 0.027 min
 Lab File: r1738654.D
 Acq: 15 Feb 2024 8:59 PM

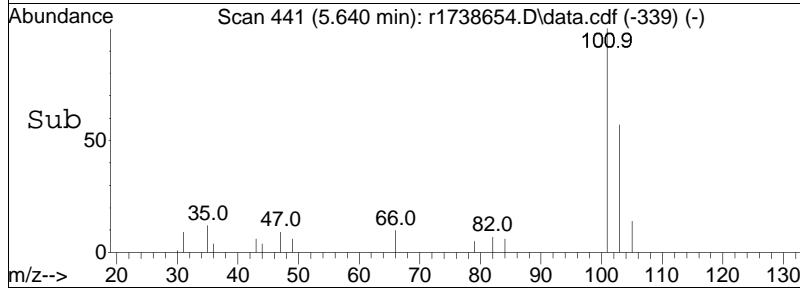
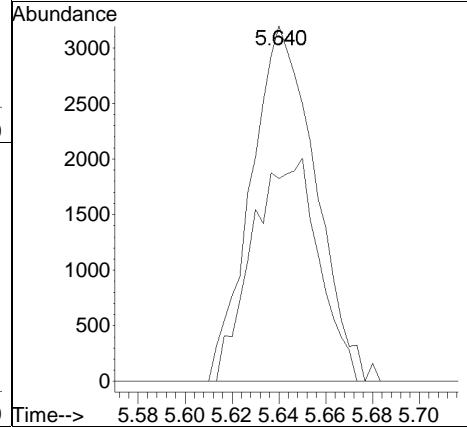
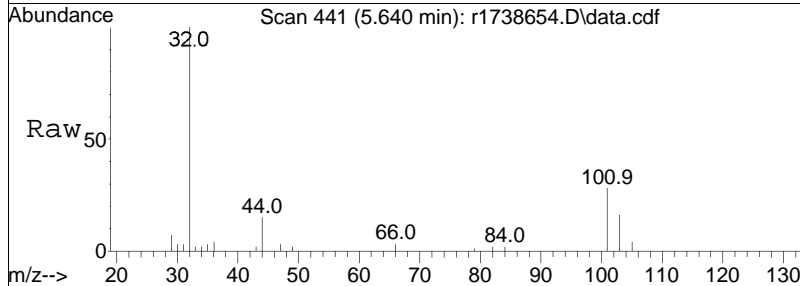
Tgt Ion	Ratio	Lower	Upper
43	100		
58	37.3	34.0	51.0
57	2.2	0.9	1.3#

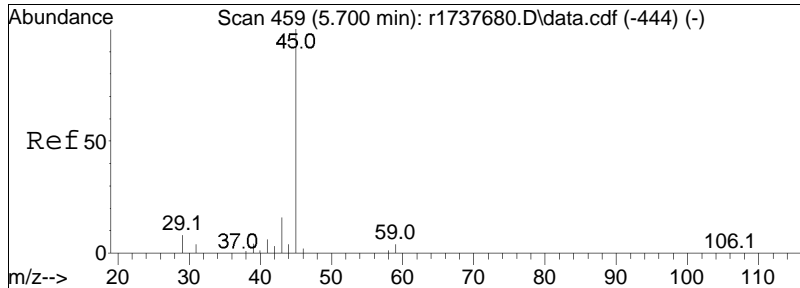




#21
 trichlorofluoromethane
 Concen: 0.22 ppbV
 RT: 5.640 min Scan# 441
 Delta R.T. 0.010 min
 Lab File: r1738654.D
 Acq: 15 Feb 2024 8:59 PM

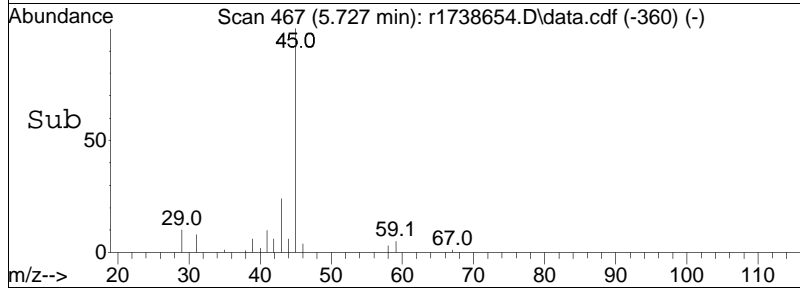
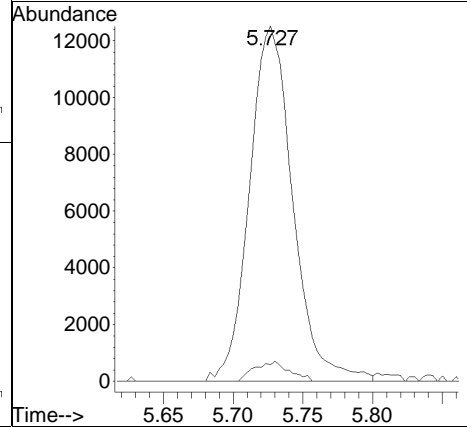
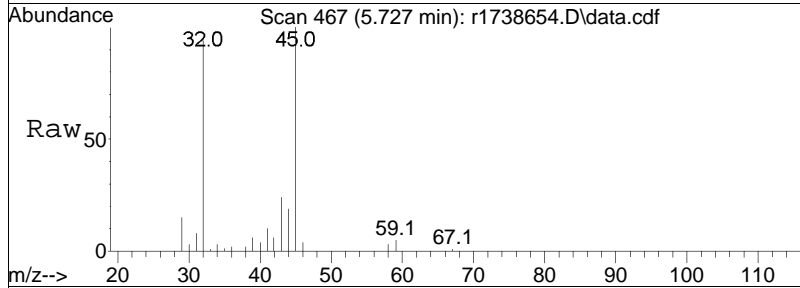
Tgt Ion: 101 Resp: 6094
 Ion Ratio Lower Upper
 101 100
 103 57.1 51.2 76.8

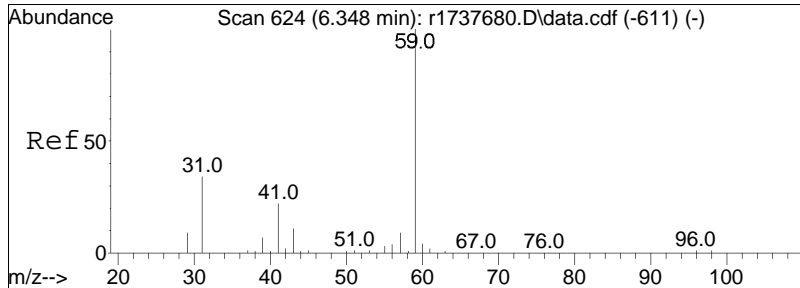




#22
 isopropyl alcohol
 Concen: 0.93 ppbV
 RT: 5.727 min Scan# 467
 Delta R.T. 0.027 min
 Lab File: r1738654.D
 Acq: 15 Feb 2024 8:59 PM

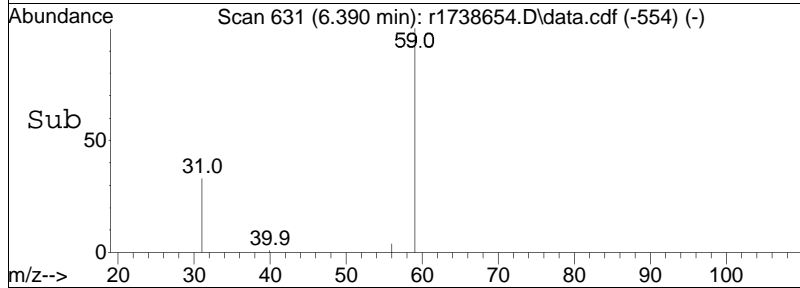
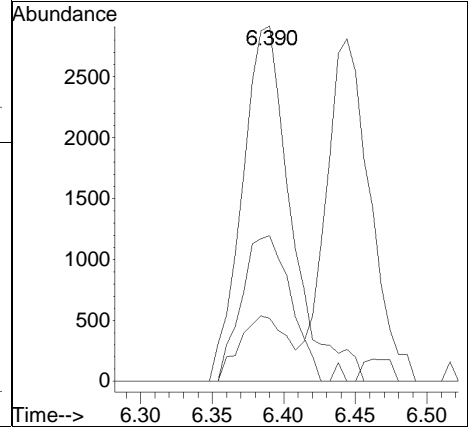
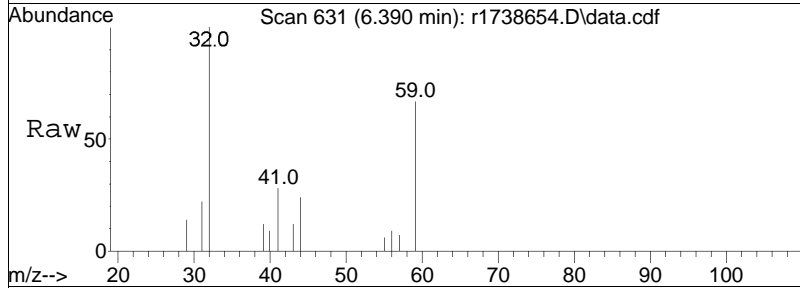
Tgt Ion:	45	59	Resp:	27130
Ion Ratio	100	4.7	Lower	Upper
			3.4	5.2

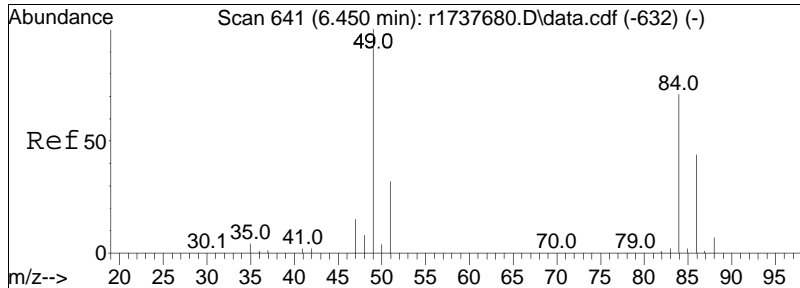




#27
 tertiary butyl alcohol
 Concen: 0.21 ppbV
 RT: 6.390 min Scan# 631
 Delta R.T. 0.042 min
 Lab File: r1738654.D
 Acq: 15 Feb 2024 8:59 PM

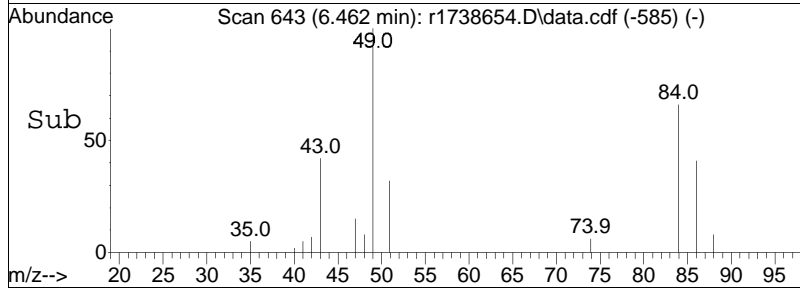
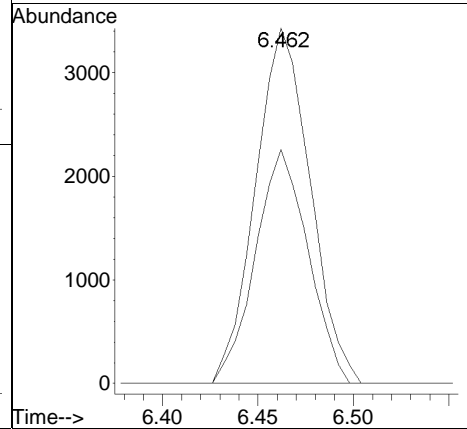
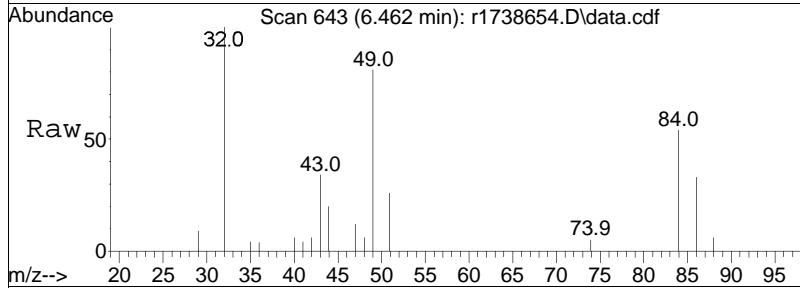
Tgt Ion	Resp	Lower	Upper
59	100		
41	41.0	17.5	26.3#
43	17.8	8.7	13.1#

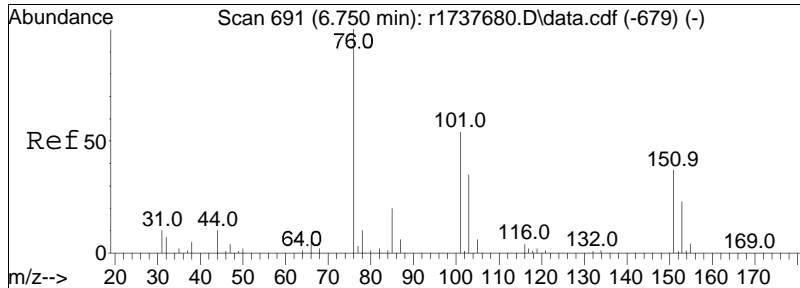




#28
 methylene chloride
 Concen: 0.28 ppbV
 RT: 6.462 min Scan# 643
 Delta R.T. 0.012 min
 Lab File: r1738654.D
 Acq: 15 Feb 2024 8:59 PM

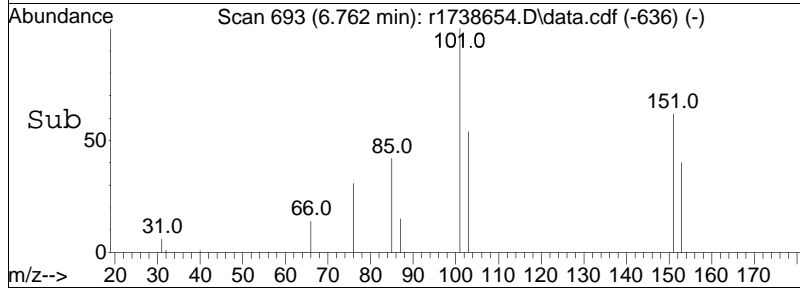
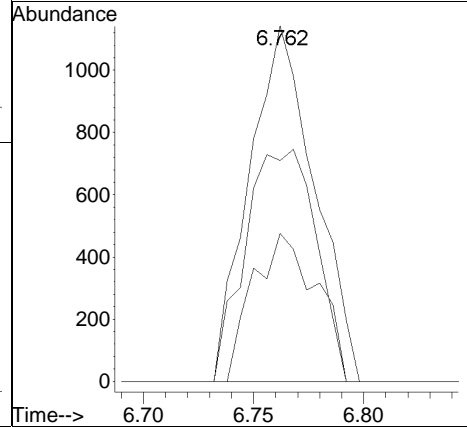
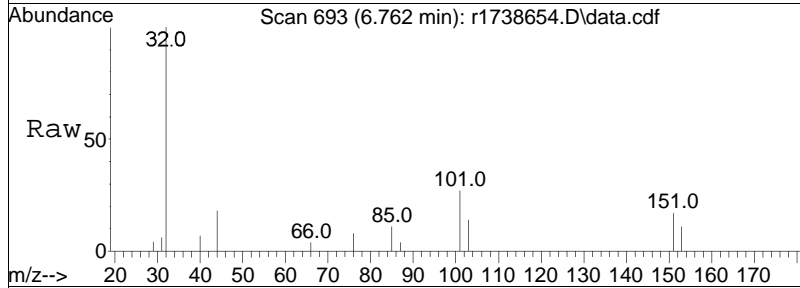
Tgt Ion: 49 Resp: 6841
 Ion Ratio Lower Upper
 49 100
 84 65.8 56.7 85.1

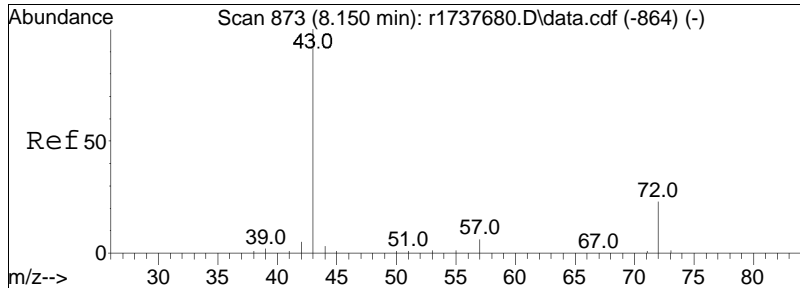




#31
 Freon 113
 Concen: 0.07 ppbV
 RT: 6.762 min Scan# 693
 Delta R.T. 0.012 min
 Lab File: r1738654.D
 Acq: 15 Feb 2024 8:59 PM

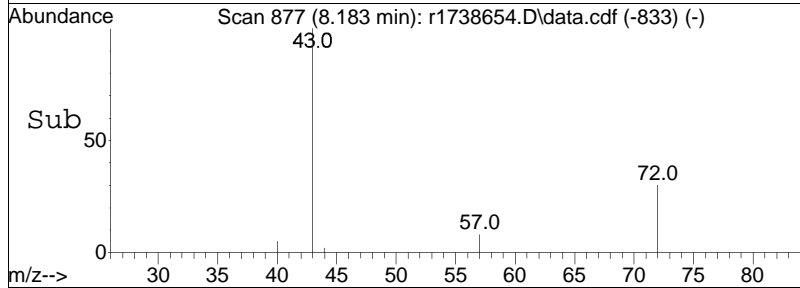
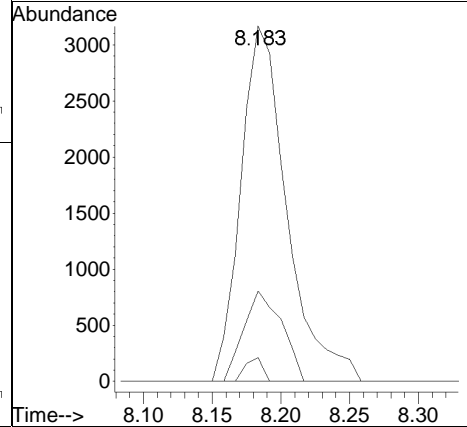
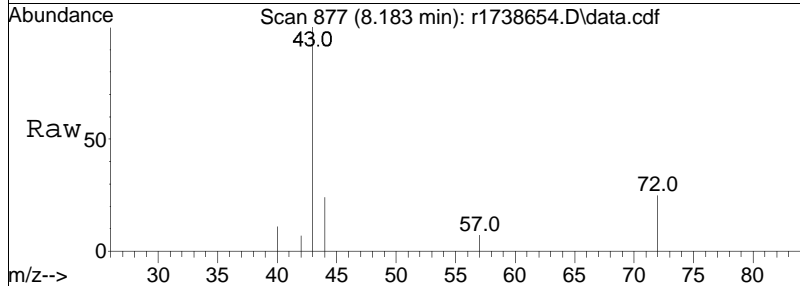
Tgt Ion	Resp	Lower	Upper
101	2353		
101	100		
85	41.7	30.5	45.7
151	62.2	56.0	84.0

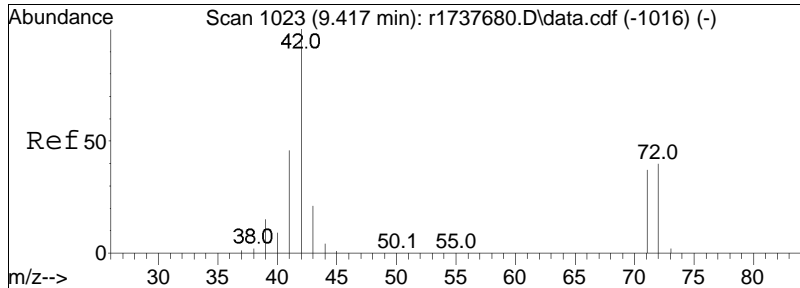




#36
 2-butanone
 Concen: 0.16 ppbV
 RT: 8.183 min Scan# 877
 Delta R.T. 0.033 min
 Lab File: r1738654.D
 Acq: 15 Feb 2024 8:59 PM

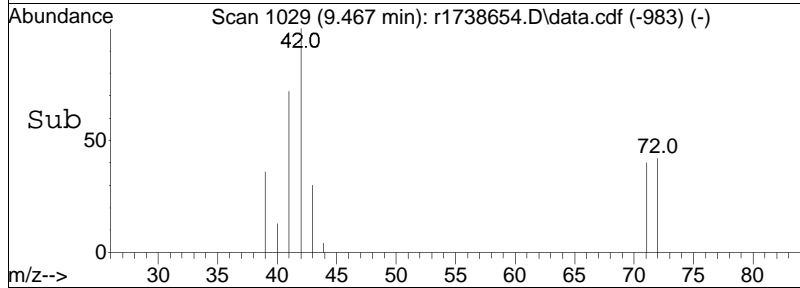
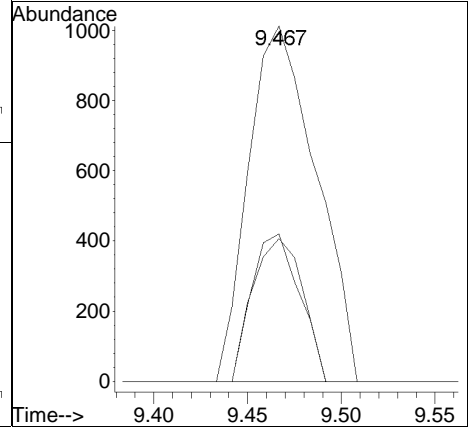
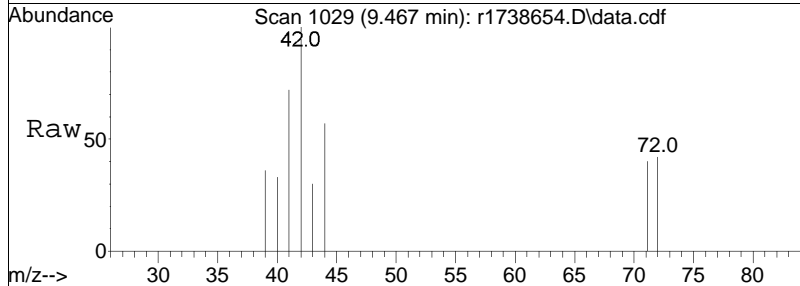
Tgt Ion	Ratio	Lower	Upper
43	100		
72	25.5	18.3	27.5
57	6.7	5.0	7.6

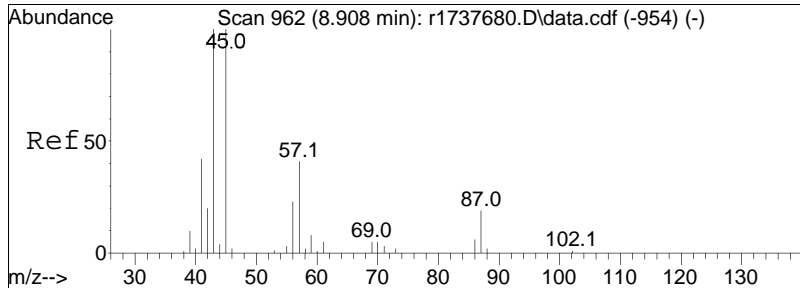




#40
 Tetrahydrofuran
 Concen: 0.10 ppbV
 RT: 9.467 min Scan# 1029
 Delta R.T. 0.050 min
 Lab File: r1738654.D
 Acq: 15 Feb 2024 8:59 PM

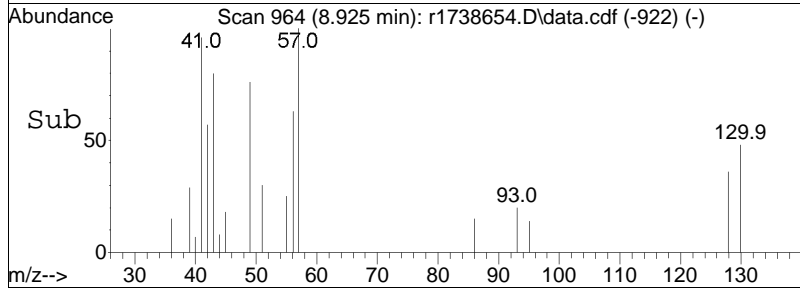
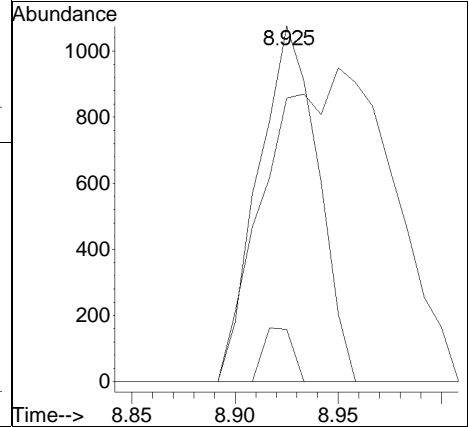
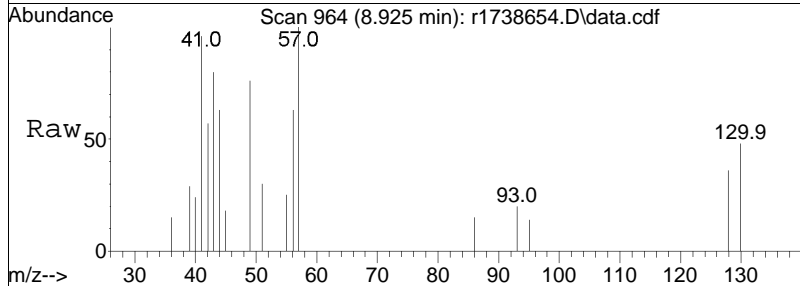
Tgt Ion:	Resp:		
Ion	Ratio	Lower	Upper
42	100		
71	40.2	30.0	45.0
72	41.5	31.9	47.9

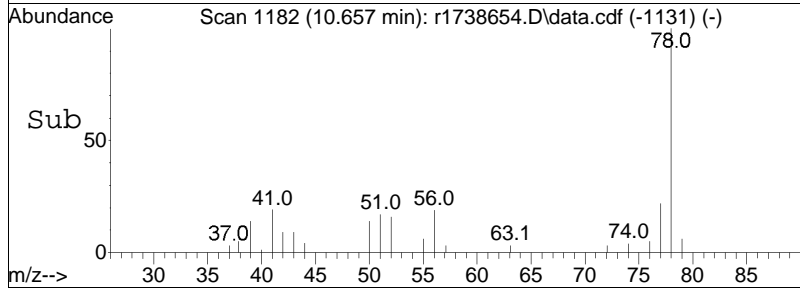
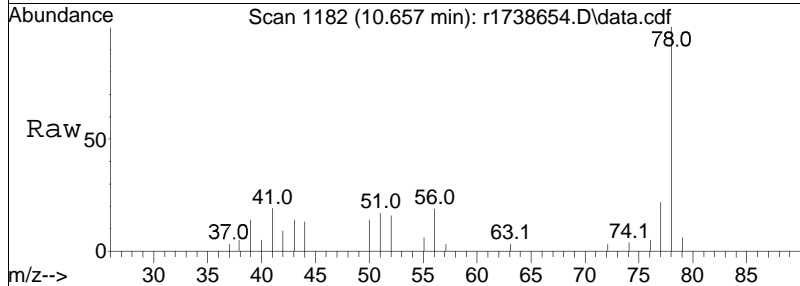
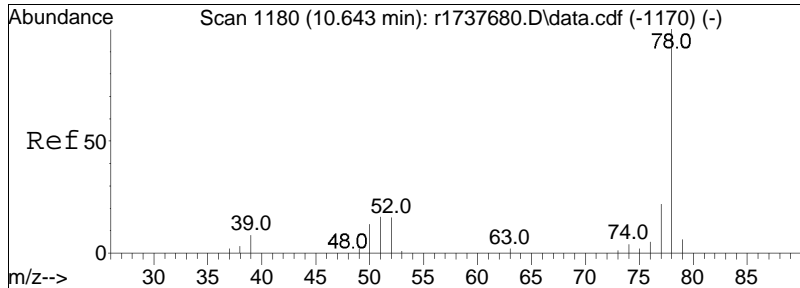




#44
 hexane
 Concen: 0.07 ppbV
 RT: 8.925 min Scan# 964
 Delta R.T. 0.017 min
 Lab File: r1738654.D
 Acq: 15 Feb 2024 8:59 PM

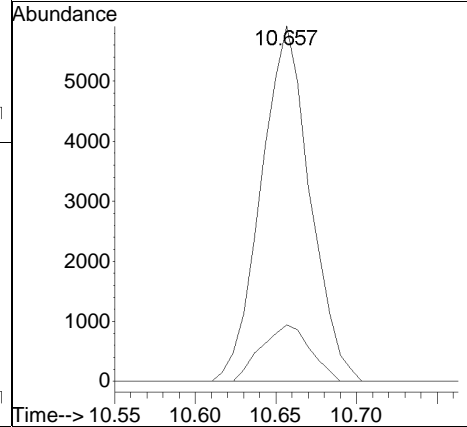
Tgt Ion:	Resp:		
Ion	Ratio	Lower	Upper
57	100		
43	79.7	197.0	295.6#
86	14.7	12.6	19.0

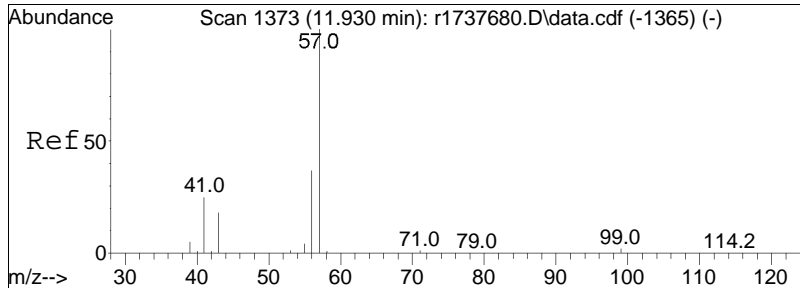




#50
benzene
Concen: 0.17 ppbV
RT: 10.657 min Scan# 1182
Delta R.T. 0.013 min
Lab File: r1738654.D
Acq: 15 Feb 2024 8:59 PM

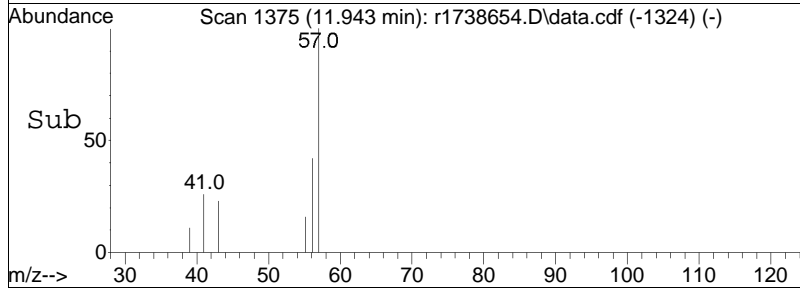
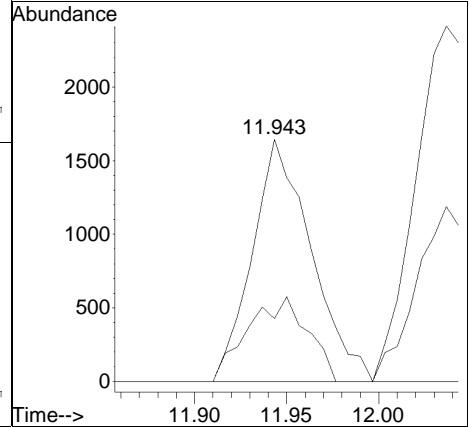
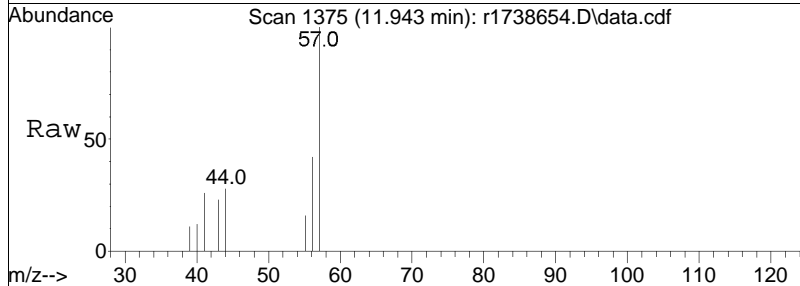
Tgt Ion: 78 Resp: 12494
Ion Ratio Lower Upper
78 100
52 15.9 12.7 19.1

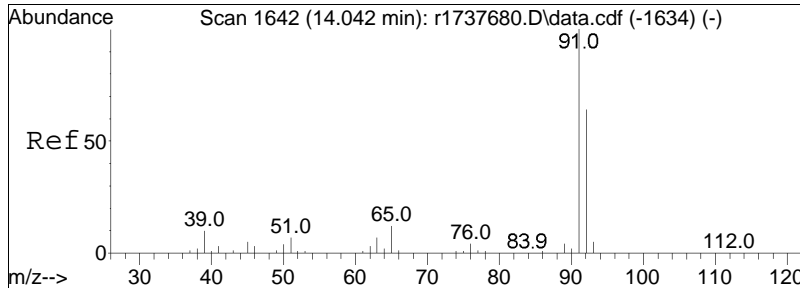




#60
 2,2,4-trimethylpentane
 Concen: 0.03 ppbV
 RT: 11.943 min Scan# 1375
 Delta R.T. 0.013 min
 Lab File: r1738654.D
 Acq: 15 Feb 2024 8:59 PM

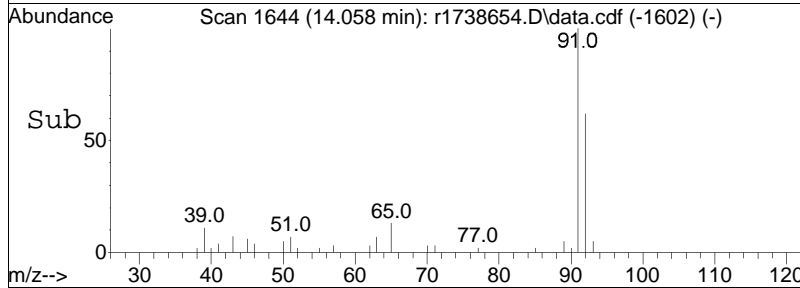
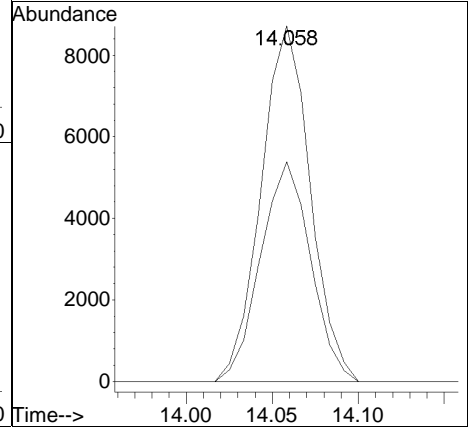
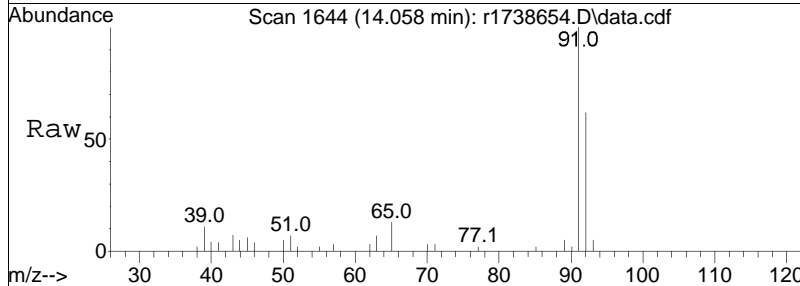
Tgt Ion	Resp	Lower	Upper
57	100		
99	0.0	4.0	6.0#
41	26.0	19.8	29.6

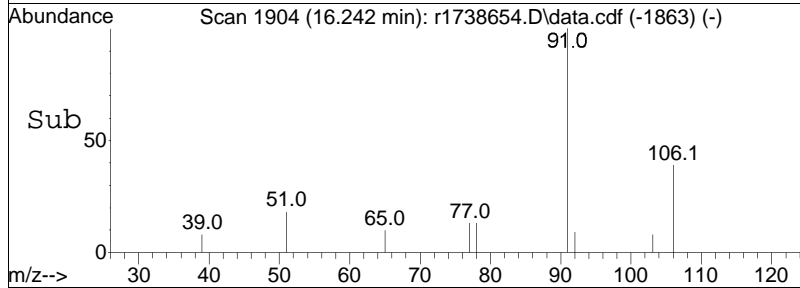
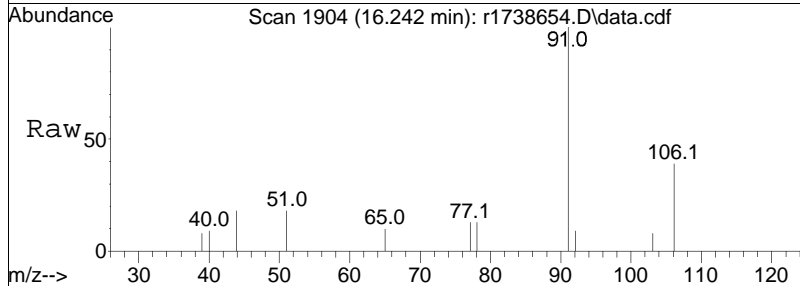
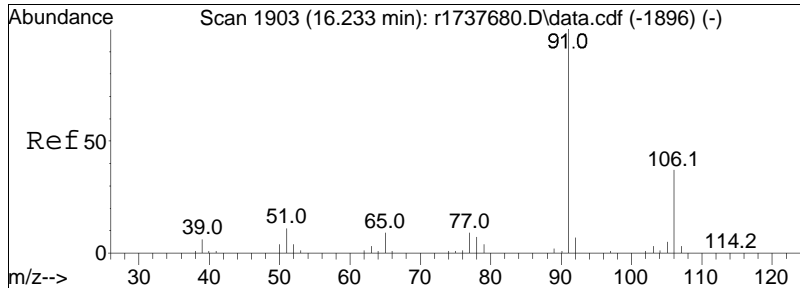




#68
 toluene
 Concen: 0.23 ppbV
 RT: 14.058 min Scan# 1644
 Delta R.T. 0.017 min
 Lab File: r1738654.D
 Acq: 15 Feb 2024 8:59 PM

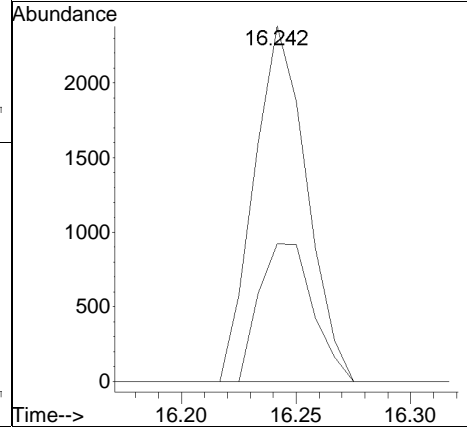
Tgt Ion	Resp	Lower	Upper
91	100		
92	61.8	51.2	76.8

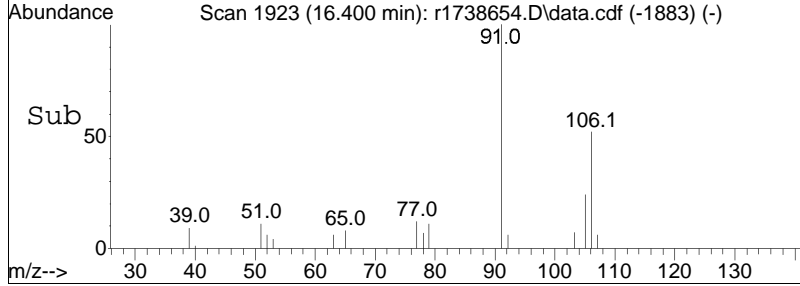
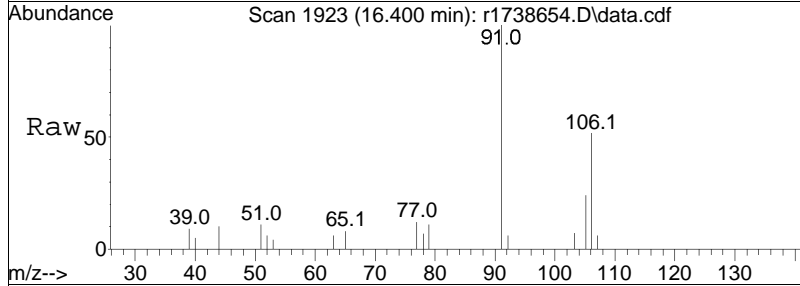
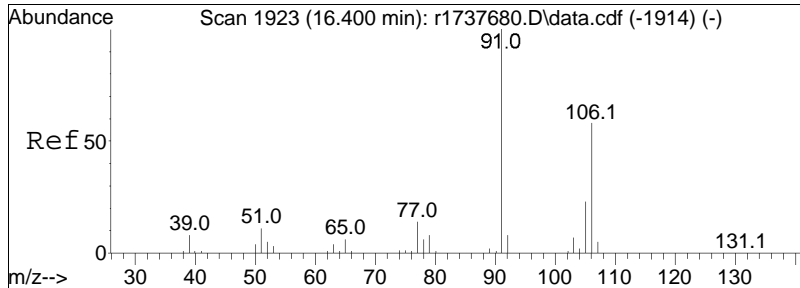




#81
ethylbenzene
Concen: 0.04 ppbV
RT: 16.242 min Scan# 1904
Delta R.T. 0.008 min
Lab File: r1738654.D
Acq: 15 Feb 2024 8:59 PM

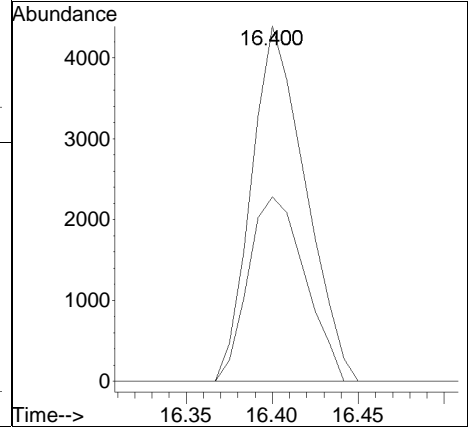
Tgt Ion	Resp	Lower	Upper
91	3804		
106	38.7	29.4	44.0

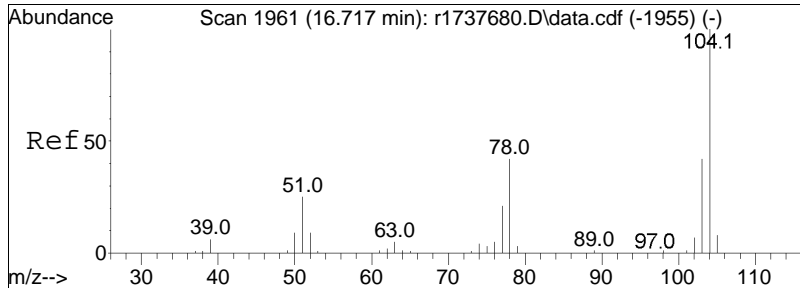




#83
 m+p-xylene
 Concen: 0.13 ppbV
 RT: 16.400 min Scan# 1923
 Delta R.T. 0.000 min
 Lab File: r1738654.D
 Acq: 15 Feb 2024 8:59 PM

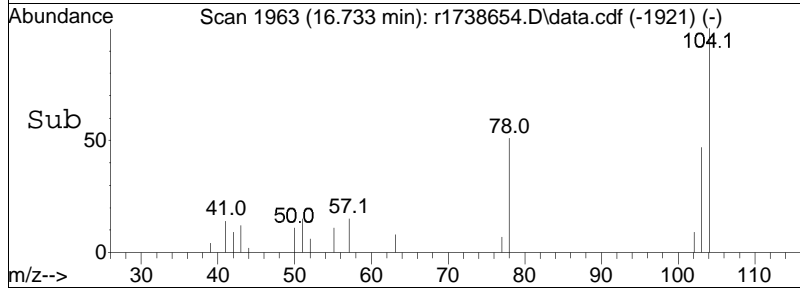
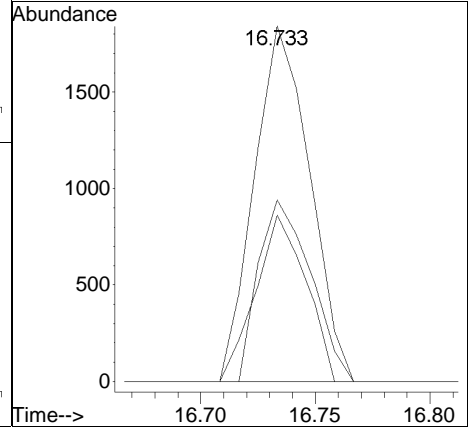
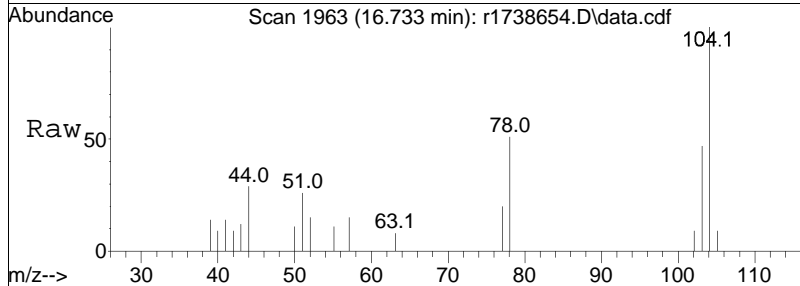
Tgt Ion:	91	Resp:	9603
Ion Ratio	Lower	Upper	
91	100		
106	51.9	46.1	69.1

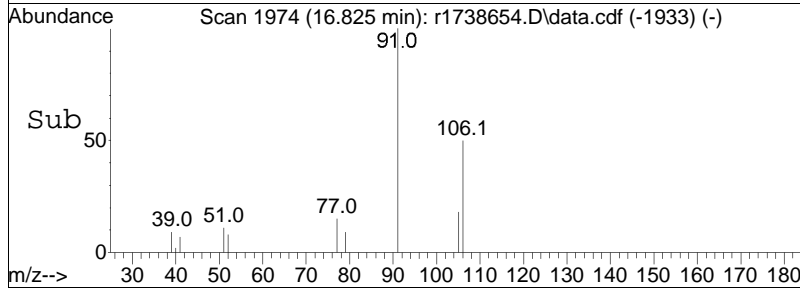
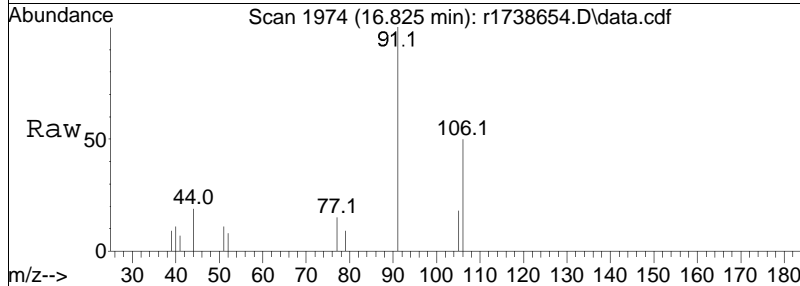
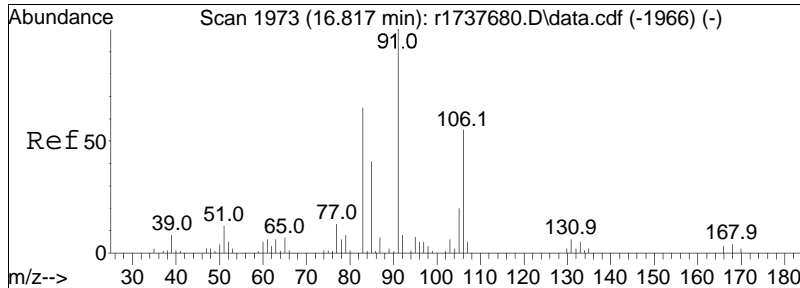




#85
 styrene
 Concen: 0.05 ppbV
 RT: 16.733 min Scan# 1963
 Delta R.T. 0.017 min
 Lab File: r1738654.D
 Acq: 15 Feb 2024 8:59 PM

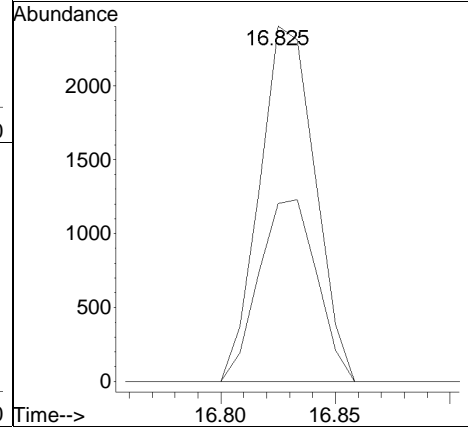
Tgt Ion	Ratio	Lower	Upper
104	100		
103	46.8	33.9	50.9
78	51.1	33.4	50.2#

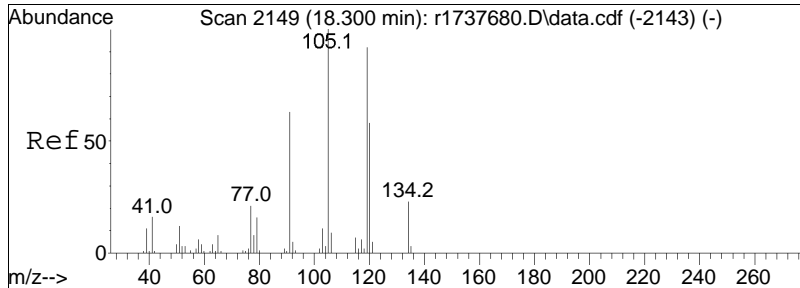




#87
 o-xylene
 Concen: 0.05 ppbV
 RT: 16.825 min Scan# 1974
 Delta R.T. 0.008 min
 Lab File: r1738654.D
 Acq: 15 Feb 2024 8:59 PM

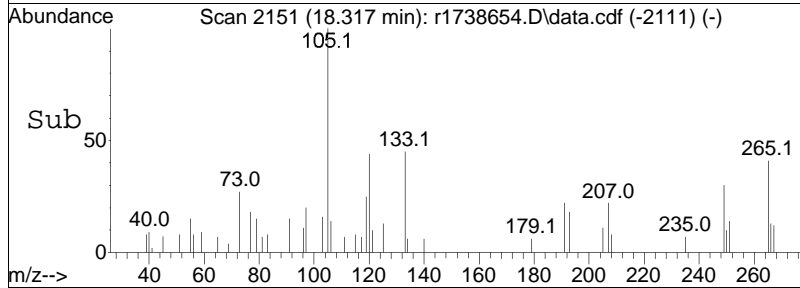
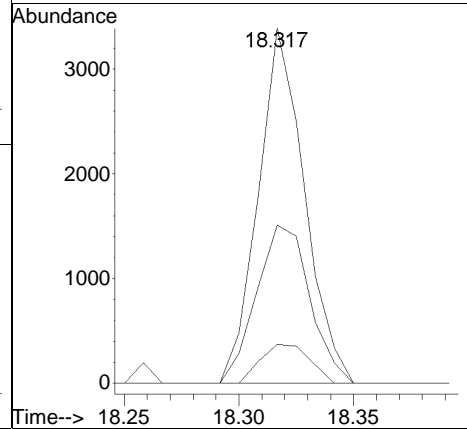
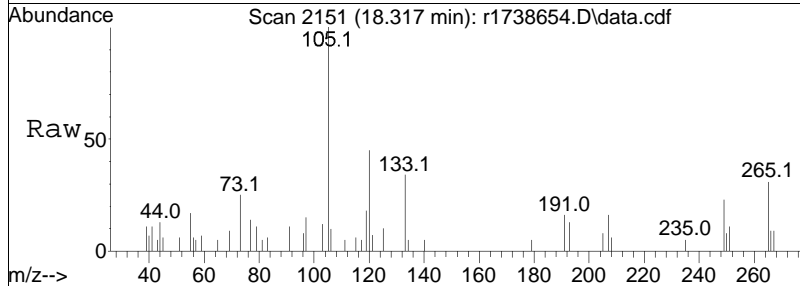
Tgt Ion: 91 Resp: 4050
 Ion Ratio Lower Upper
 91 100
 106 50.1 44.2 66.4





#99
 1,2,4-trimethylbenzene
 Concen: 0.05 ppbV
 RT: 18.317 min Scan# 2151
 Delta R.T. 0.017 min
 Lab File: r1738654.D
 Acq: 15 Feb 2024 8:59 PM

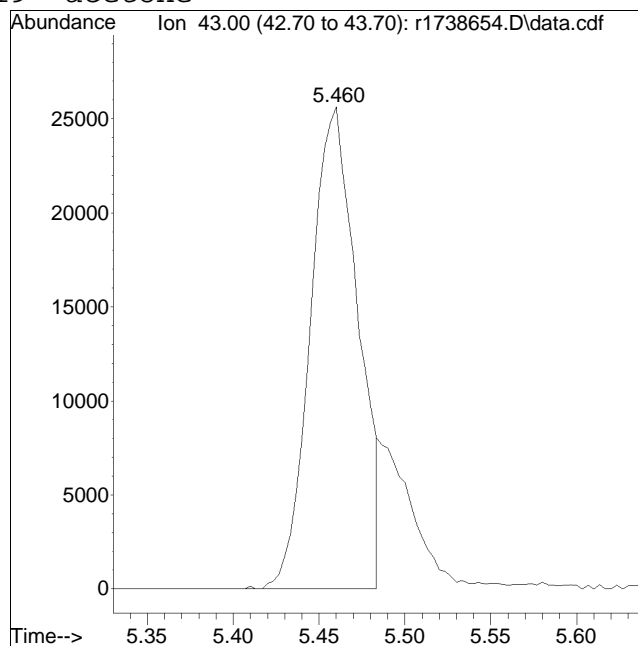
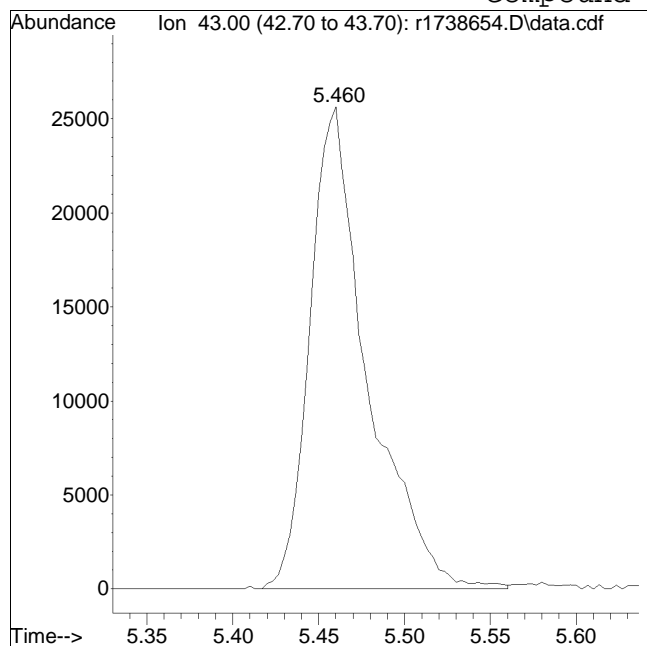
Tgt Ion	Ratio	Lower	Upper
105	100		
120	44.5	46.0	69.0#
91	11.0	50.6	76.0#



Manual Integration Report

Data Path : O:\Forensics\Data\Airlab17QMethod : TFS17_240107.M
Data File : r1738654.D Operator : AIRLAB17:JMB
Date Inj'd : 2/15/2020 0:8: 9 Instrument :
Sample : L2407645-01,3,250,250 Quant Date : 2/16/2024 8:03 am

Compound #19: acetone



Original Peak Response = 60009

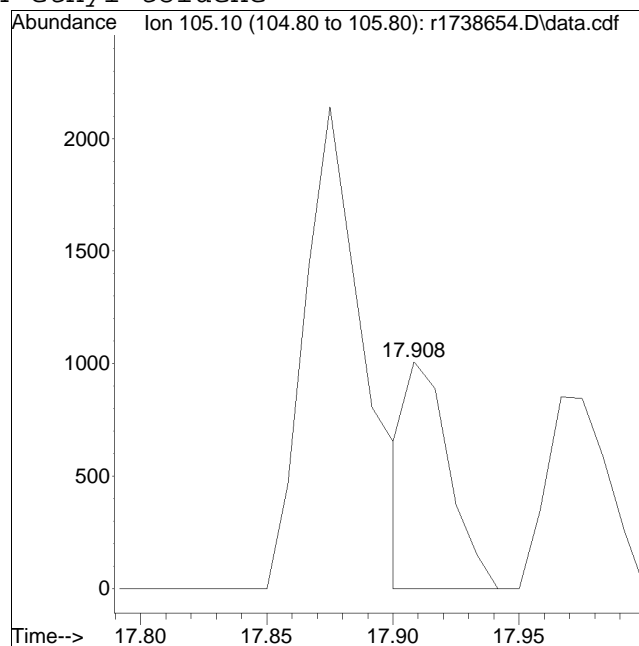
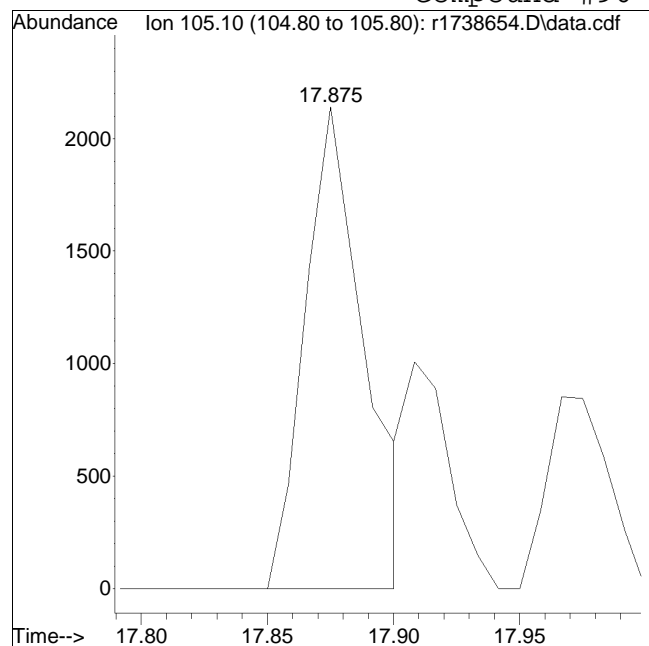
Manual Peak Response = 49268 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

Data Path : O:\Forensics\Data\Airlab17QMethod : TFS17_240107.M
Data File : r1738654.D Operator : AIRLAB17:JMB
Date Inj'd : 2/15/2020 0:8: 9 Instrument :
Sample : L2407645-01,3,250,250 Quant Date : 2/16/2024 8:03 am

Compound #96: 4-ethyl toluene



Original Peak Response = 3485

Manual Peak Response = 1212 M3

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab17\2024\02\0215T\
 Data File : r1738655.D
 Acq On : 15 Feb 2024 9:39 PM
 Operator : AIRLAB17:JMB
 Sample : L2407645-02,3,250,250
 Misc : WG1885731,ICAL20743
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 16 08:05:07 2024
 Quant Method : O:\Forensics\Data\Airlab17\2024\02\0215T\TFS17_240107.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Mon Jan 08 15:04:31 2024
 Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab17\2024\02\0215T\r1738648.D
 Sub List : TO15-NY-7-SIM - .

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	8.850	49	359235	10.000	ppbV	0.00
Standard Area =	370847		Recovery =	96.87%		
43) 1,4-difluorobenzene	11.090	114	955576	10.000	ppbV	0.02
Standard Area =	986523		Recovery =	96.86%		
67) chlorobenzene-D5	15.850	54	138542	10.000	ppbV	0.02
Standard Area =	142298		Recovery =	97.36%		

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) dichlorodifluoromethane	3.874	85	16901	0.496	ppbV	99
6) chloromethane	4.030	50	9033	0.499	ppbV	99
7) Freon-114	0.000		0	N.D.		
10) 1,3-butadiene	4.384		0	N.D.		
13) bromomethane	4.654		0	N.D.		
14) chloroethane	4.822		0	N.D.		
15) ethanol	4.948	31	293550	19.092	ppbV	97
17) vinyl bromide	0.000		0	N.D.		
19) acetone	5.453	43	97025M6	4.436	ppbV	
21) trichlorofluoromethane	5.640	101	6293	0.234	ppbV	87
22) isopropyl alcohol	5.720	45	39692	1.397	ppbV #	97
27) tertiary butyl alcohol	6.378	59	15877	0.480	ppbV #	65
28) methylene chloride	6.462	49	7457	0.310	ppbV	94
29) 3-chloropropene	6.522		0	N.D.		
30) carbon disulfide	6.762		0	N.D.		
31) Freon 113	6.756	101	2364	0.068	ppbV	95
32) trans-1,2-dichloroethene	0.000		0	N.D.		
33) 1,1-dichloroethane	0.000		0	N.D.		
34) MTBE	0.000		0	N.D.		
36) 2-butanone	8.175	43	13227	0.301	ppbV	99
38) Ethyl Acetate	8.950	61	4760	0.779	ppbV #	35
39) chloroform	9.008	83	1117	0.033	ppbV #	84
40) Tetrahydrofuran	9.458	42	25104	1.008	ppbV	98
42) 1,2-dichloroethane	9.842		0	N.D.		
44) hexane	8.925	57	6438	0.204	ppbV #	56
50) benzene	10.657	78	16362	0.231	ppbV	99
53) cyclohexane	10.977	56	1439	0.043	ppbV #	85
56) 1,2-dichloropropane	0.000		0	N.D.		

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab17\2024\02\0215T\
 Data File : r1738655.D
 Acq On : 15 Feb 2024 9:39 PM
 Operator : AIRLAB17:JMB
 Sample : L2407645-02,3,250,250
 Misc : WG1885731,ICAL20743
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 16 08:05:07 2024
 Quant Method : O:\Forensics\Data\Airlab17\2024\02\0215T\TFS17_240107.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Mon Jan 08 15:04:31 2024
 Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab17\2024\02\0215T\r1738648.D
 Sub List : TO15-NY-7-SIM - .

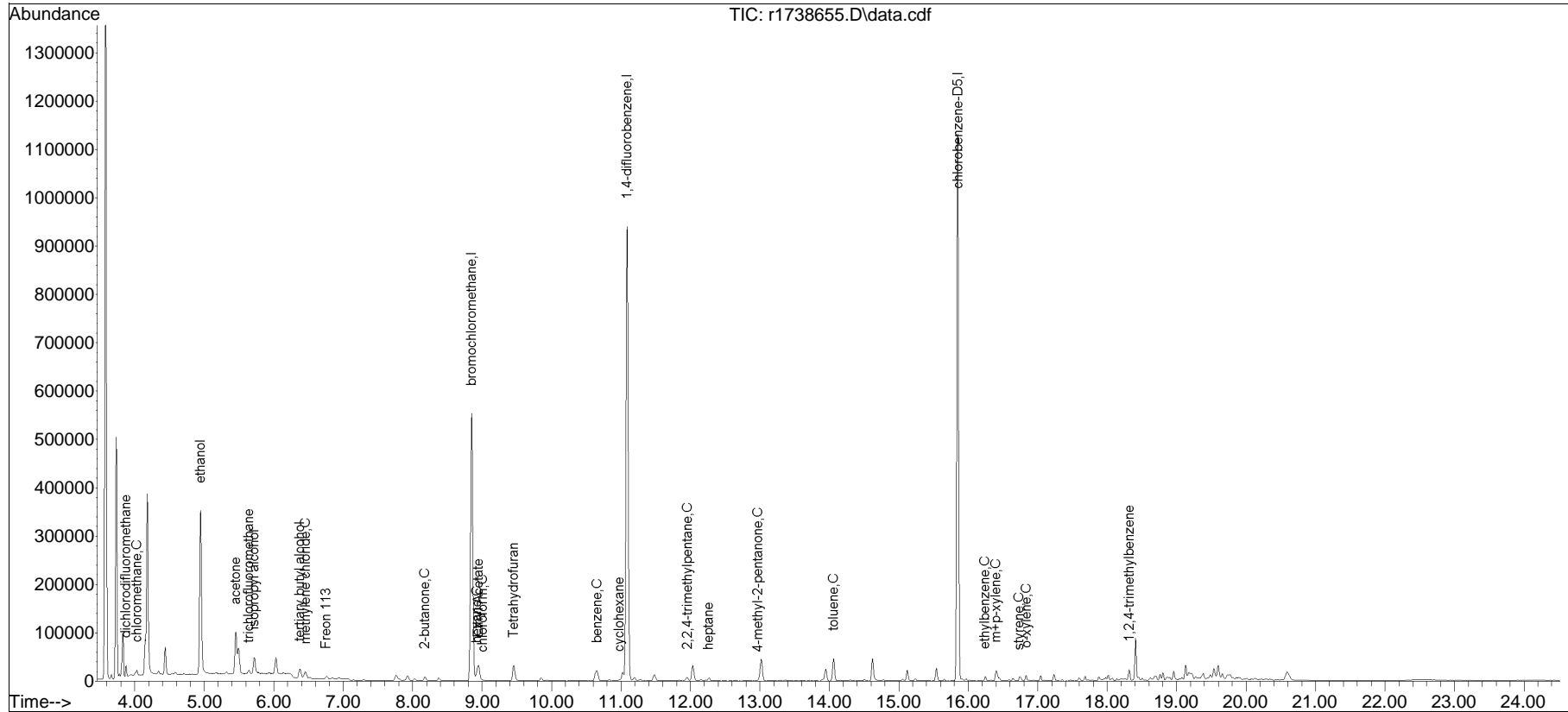
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
57) bromodichloromethane	11.937		0		N.D.	
58) 1,4-dioxane	0.000		0		N.D.	
60) 2,2,4-trimethylpentane	11.957	57	6934	0.066	ppbV #	83
62) heptane	12.263	43	3533	0.079	ppbV	95
63) cis-1,3-dichloropropene	0.000		0		N.D.	
64) 4-methyl-2-pentanone	12.975	43	3180	0.060	ppbV #	86
65) trans-1,3-dichloropropene	0.000		0		N.D.	
66) 1,1,2-trichloroethane	0.000		0		N.D.	
68) toluene	14.058	91	35823	0.470	ppbV	96
72) 2-hexanone	14.350		0		N.D.	
74) dibromochloromethane	0.000		0		N.D.	
75) 1,2-dibromoethane	0.000		0		N.D.	
80) chlorobenzene	0.000		0		N.D.	
81) ethylbenzene	16.242	91	6648	0.069	ppbV	98
83) m+p-xylene	16.400	91	17486	0.230	ppbV	93
84) bromoform	0.000		0		N.D.	
85) styrene	16.733	104	2806	0.044	ppbV	96
86) 1,1,2,2-tetrachloroethane	16.875		0		N.D.	
87) o-xylene	16.833	91	6513	0.086	ppbV	94
96) 4-ethyl toluene	17.908		0		N.D.	
97) 1,3,5-trimethylbenzene	17.975		0		N.D.	
99) 1,2,4-trimethylbenzene	18.317	105	6722	0.075	ppbV #	62
101) Benzyl Chloride	18.325		0		N.D.	
102) 1,3-dichlorobenzene	18.508		0		N.D.	
103) 1,4-dichlorobenzene	18.508		0		N.D.	
107) 1,2-dichlorobenzene	0.000		0		N.D.	
115) 1,2,4-trichlorobenzene	0.000		0		N.D.	
119) hexachlorobutadiene	0.000		0		N.D.	

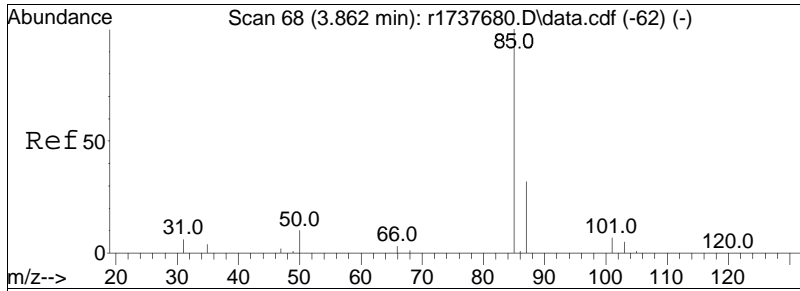
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sub List : TO15-NY-7-SIM - .\Airlab17\2024\02\0215T\r1738648.D

Data Path : O:\Forensics\Data\Airlab17\2024\02\0215T\
Data File : r1738655.D
Acq On : 15 Feb 2024 9:39 PM
Operator : AIRLAB17:JMB
Sample : L2407645-02,3,250,250
Misc : WG1885731,ICAL20743
ALS Vial : 0 Sample Multiplier: 1

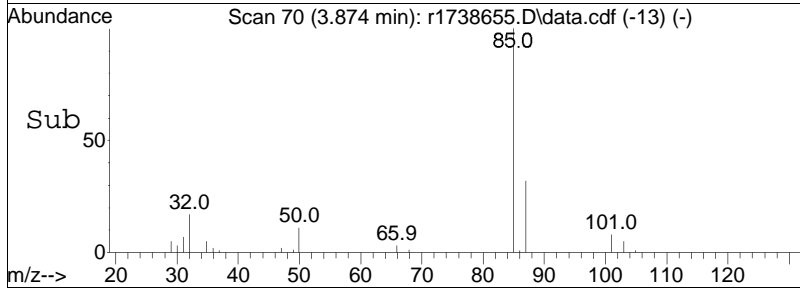
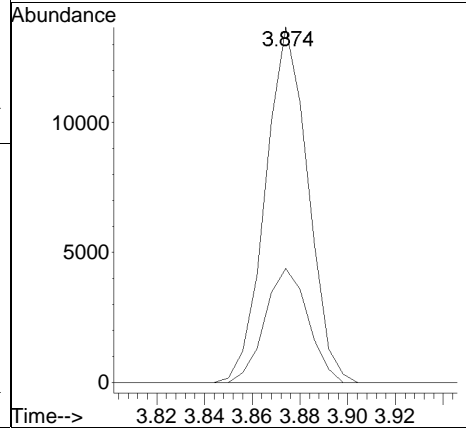
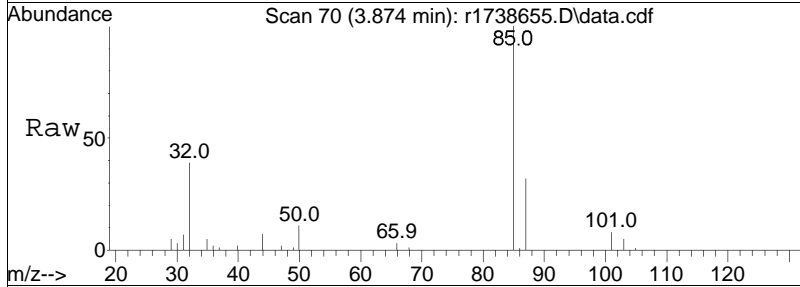
Quant Time: Feb 16 08:05:07 2024
Quant Method : O:\Forensics\Data\Airlab17\2024\02\0215T\TFS17_240107.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Mon Jan 08 15:04:31 2024
Response via : Initial Calibration

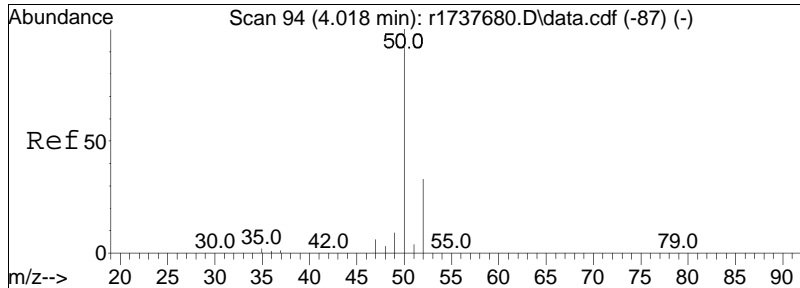




#5
dichlorodifluoromethane
Concen: 0.50 ppbV
RT: 3.874 min Scan# 70
Delta R.T. 0.012 min
Lab File: r1738655.D
Acq: 15 Feb 2024 9:39 PM

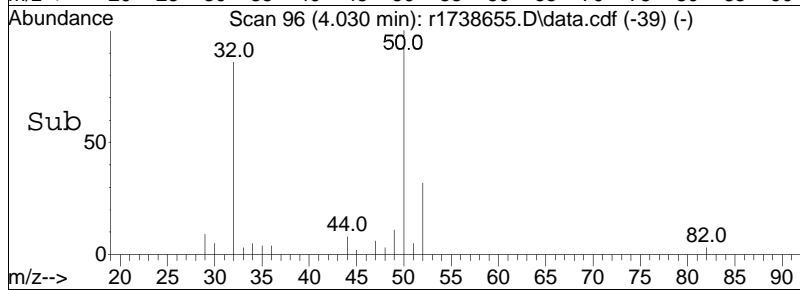
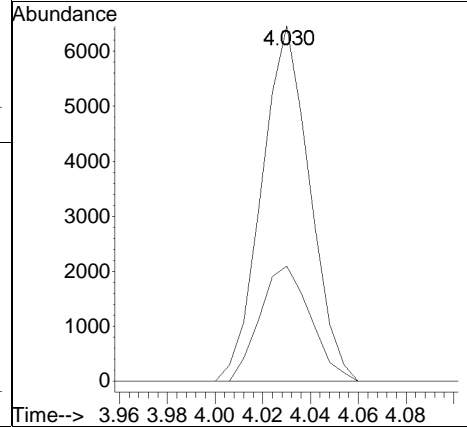
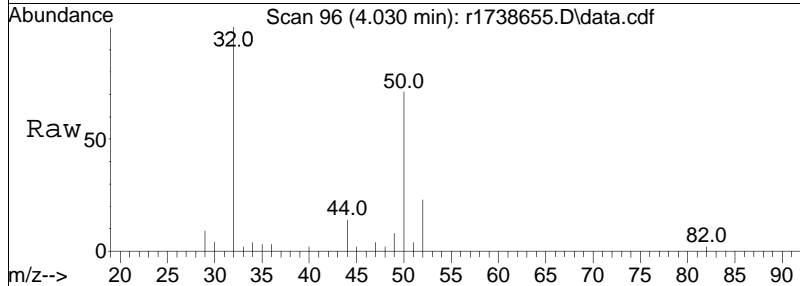
Tgt Ion:	85	Resp:	16901
Ion Ratio	Lower	Upper	
85	100		
87	32.0	25.4	38.0

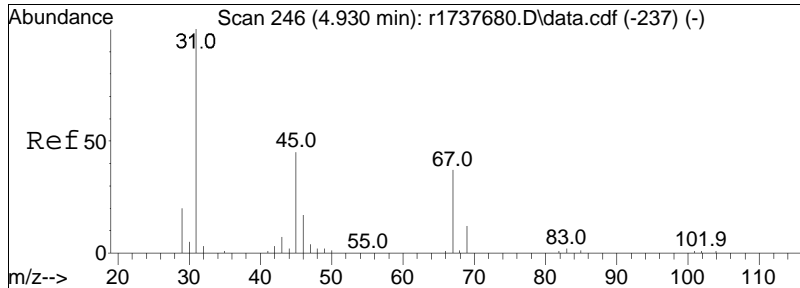




#6
 chloromethane
 Concen: 0.50 ppbV
 RT: 4.030 min Scan# 96
 Delta R.T. 0.012 min
 Lab File: r1738655.D
 Acq: 15 Feb 2024 9:39 PM

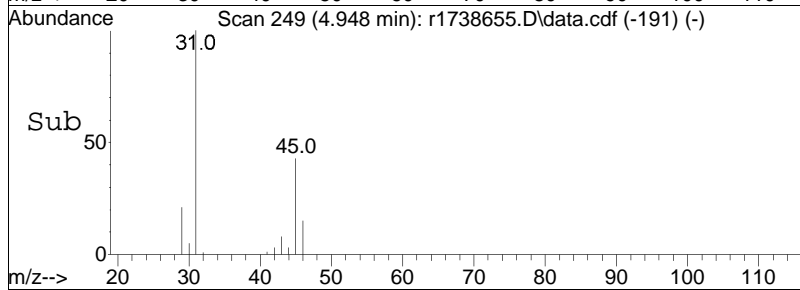
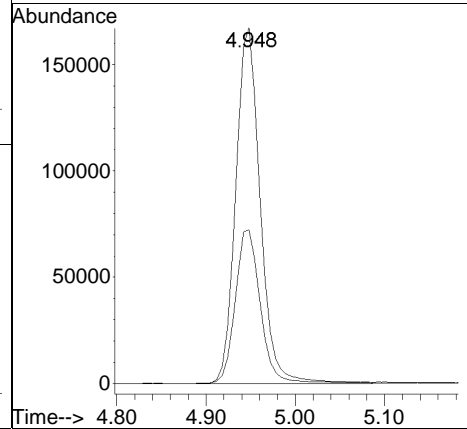
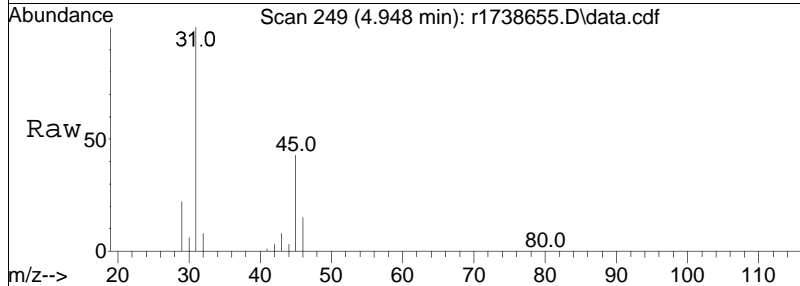
Tgt Ion	Resp	Lower	Upper
50	100		
52	32.4	26.4	39.6

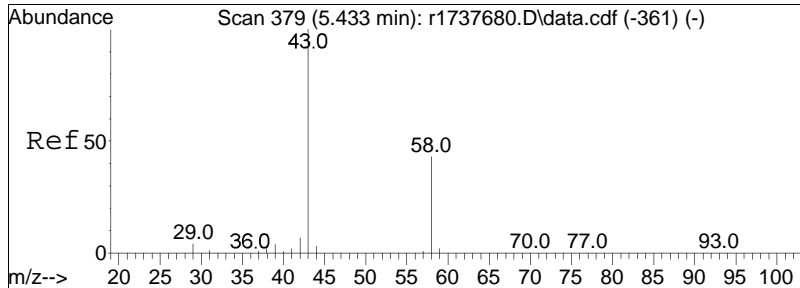




#15
 ethanol
 Concen: 19.09 ppbV
 RT: 4.948 min Scan# 249
 Delta R.T. 0.018 min
 Lab File: r1738655.D
 Acq: 15 Feb 2024 9:39 PM

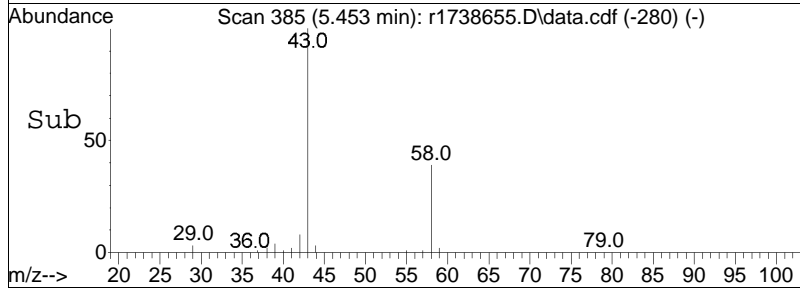
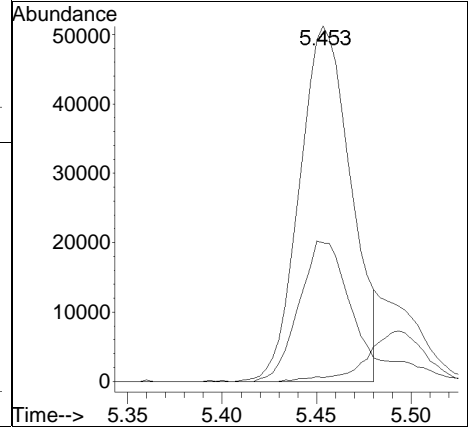
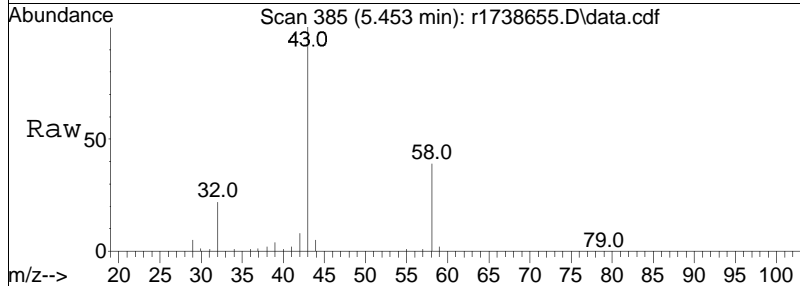
Tgt Ion:	31	Resp:	293550
Ion Ratio	100	Lower	Upper
45	43.2	36.3	54.5

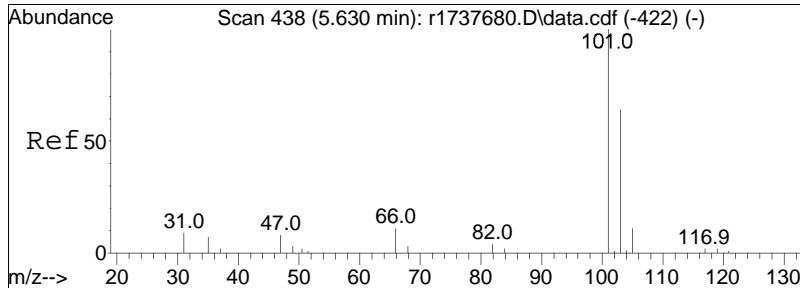




#19
 acetone
 Concen: 4.44 ppbV m
 RT: 5.453 min Scan# 385
 Delta R.T. 0.020 min
 Lab File: r1738655.D
 Acq: 15 Feb 2024 9:39 PM

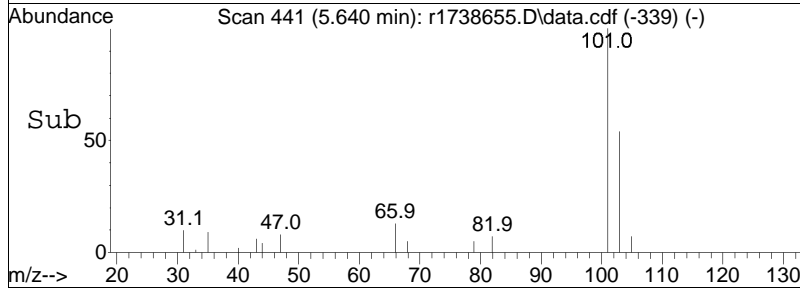
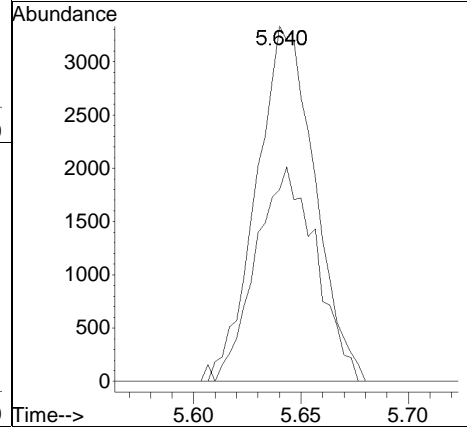
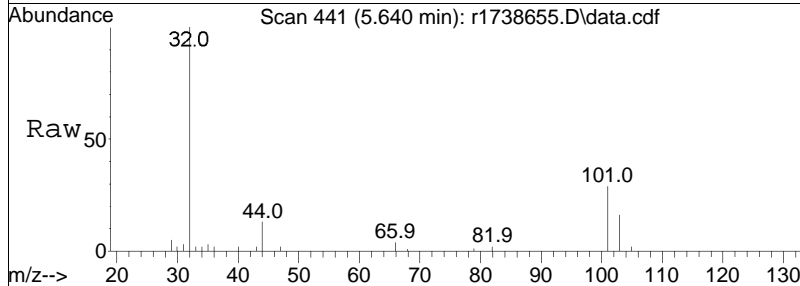
Tgt Ion	Ratio	Lower	Upper
43	100		
58	39.0	34.0	51.0
57	1.1	0.9	1.3

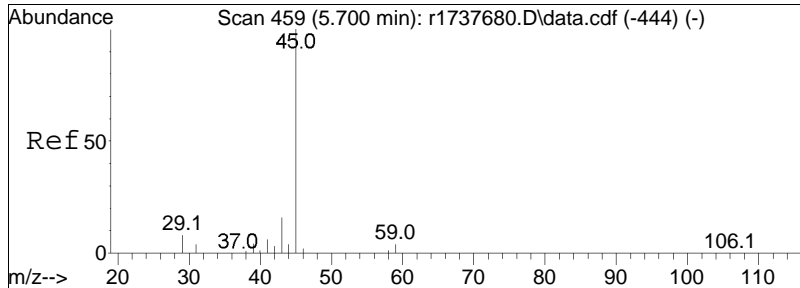




#21
 trichlorofluoromethane
 Concen: 0.23 ppbV
 RT: 5.640 min Scan# 441
 Delta R.T. 0.010 min
 Lab File: r1738655.D
 Acq: 15 Feb 2024 9:39 PM

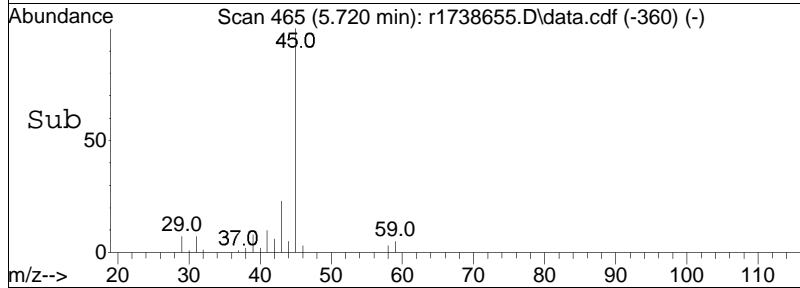
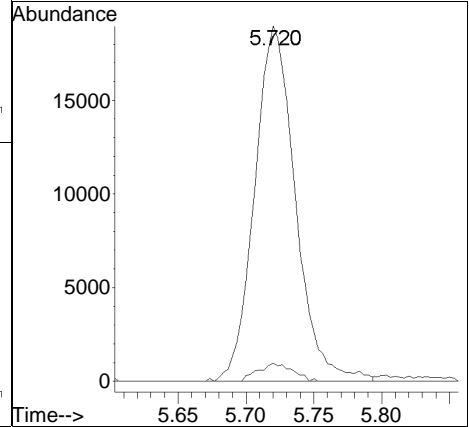
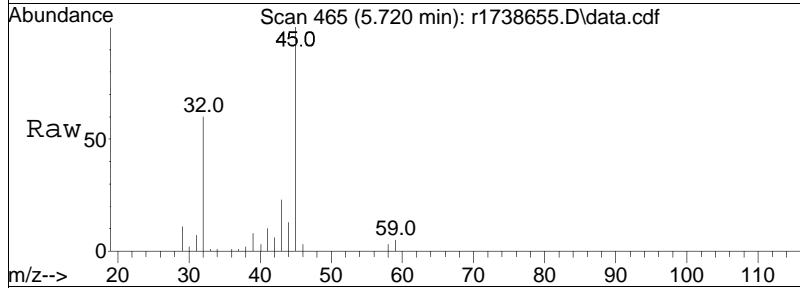
Tgt Ion	Resp	Lower	Upper
101	100		
103	54.0	51.2	76.8

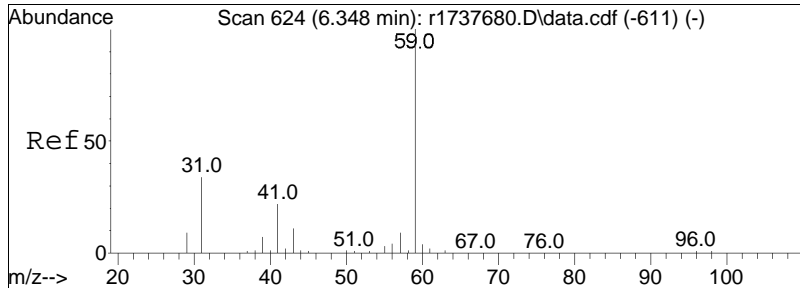




#22
 isopropyl alcohol
 Concen: 1.40 ppbV
 RT: 5.720 min Scan# 465
 Delta R.T. 0.020 min
 Lab File: r1738655.D
 Acq: 15 Feb 2024 9:39 PM

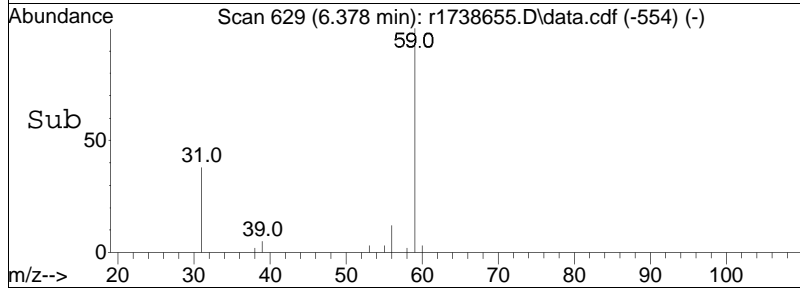
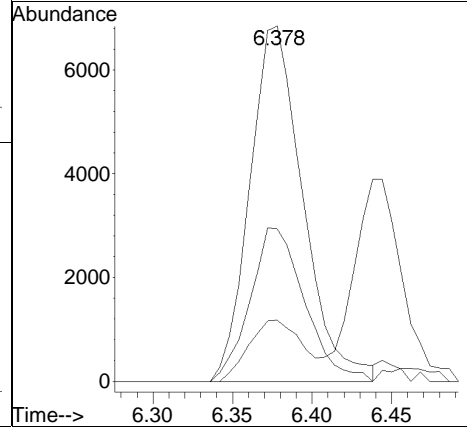
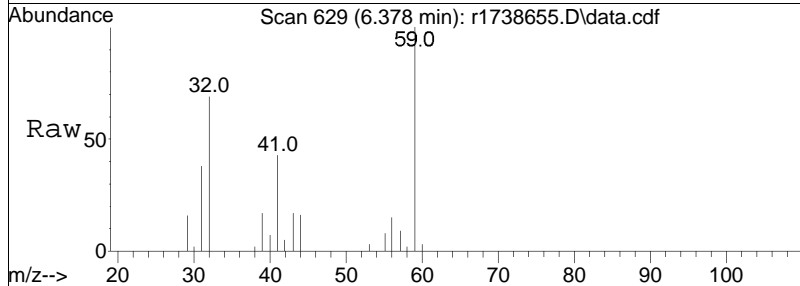
Tgt Ion:	45	Resp:	39692
Ion Ratio	Lower	Upper	
45	100		
59	5.2	3.4	5.2#

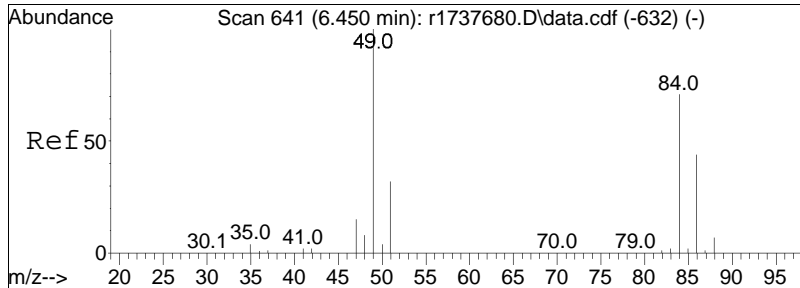




#27
 tertiary butyl alcohol
 Concen: 0.48 ppbV
 RT: 6.378 min Scan# 629
 Delta R.T. 0.030 min
 Lab File: r1738655.D
 Acq: 15 Feb 2024 9:39 PM

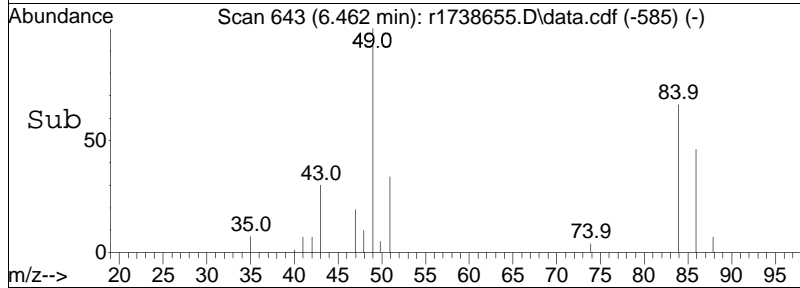
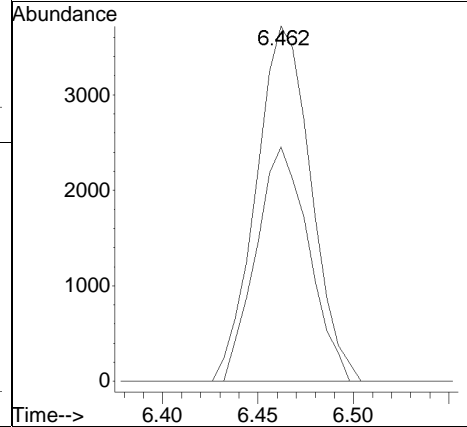
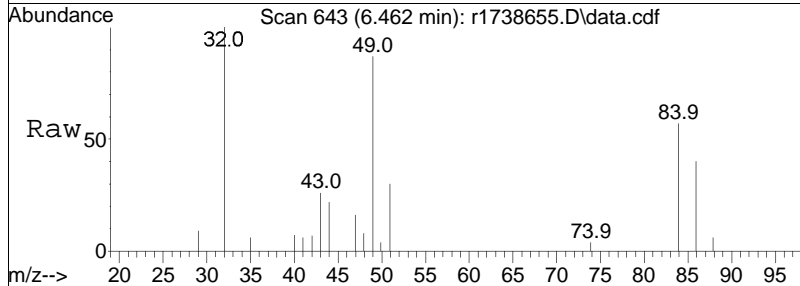
Tgt Ion	Resp	Lower	Upper
59	15877		
41	42.9	17.5	26.3#
43	17.2	8.7	13.1#

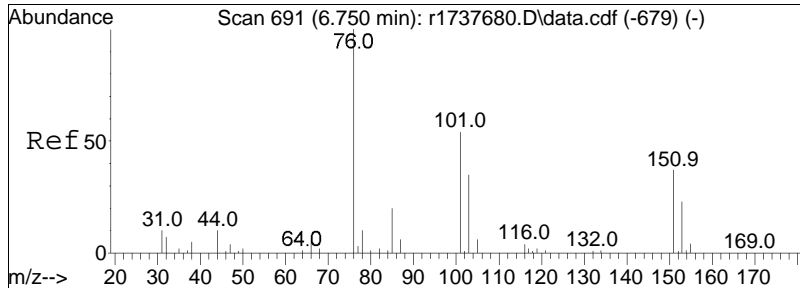




#28
 methylene chloride
 Concen: 0.31 ppbV
 RT: 6.462 min Scan# 643
 Delta R.T. 0.012 min
 Lab File: r1738655.D
 Acq: 15 Feb 2024 9:39 PM

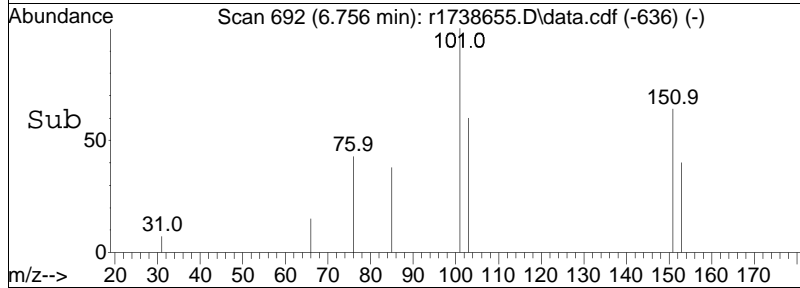
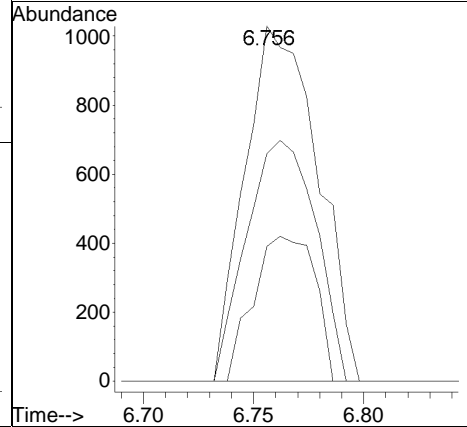
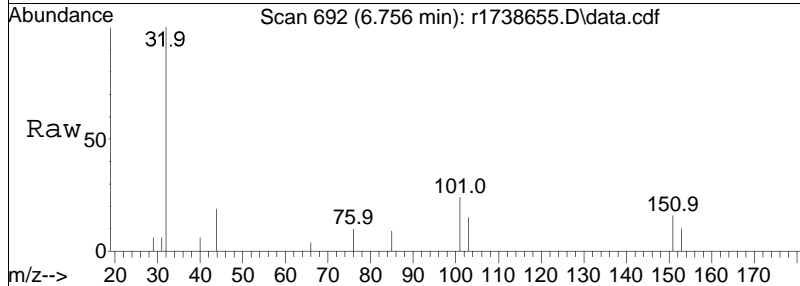
Tgt Ion:	Resp:		
Ion	Ratio	Lower	Upper
49	100		
84	66.0	56.7	85.1

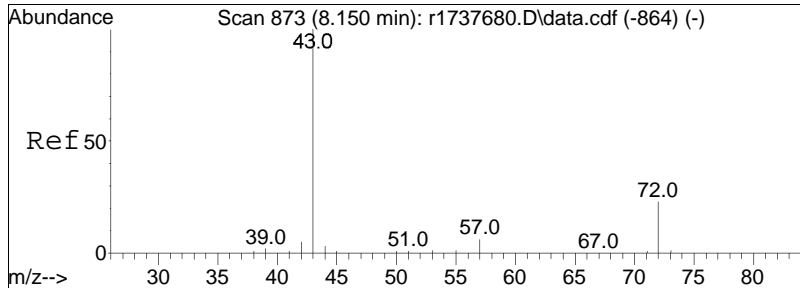




#31
 Freon 113
 Concen: 0.07 ppbV
 RT: 6.756 min Scan# 692
 Delta R.T. 0.006 min
 Lab File: r1738655.D
 Acq: 15 Feb 2024 9:39 PM

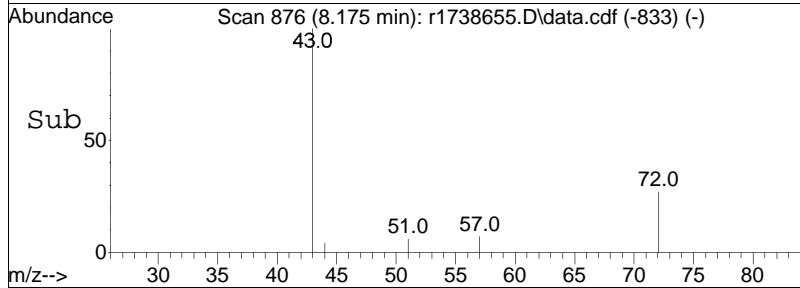
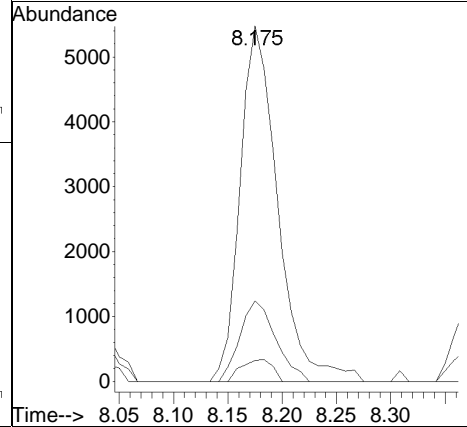
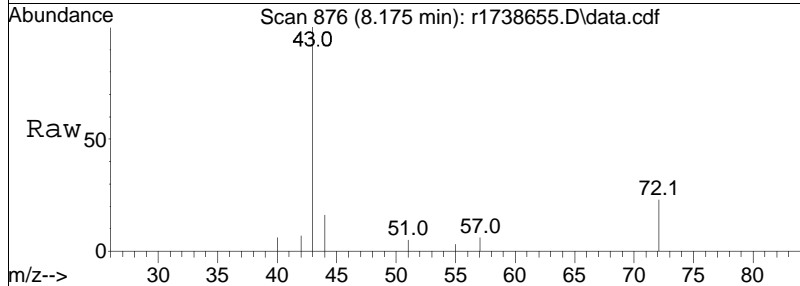
Tgt Ion	Ratio	Lower	Upper
101	100		
85	38.0	30.5	45.7
151	64.1	56.0	84.0

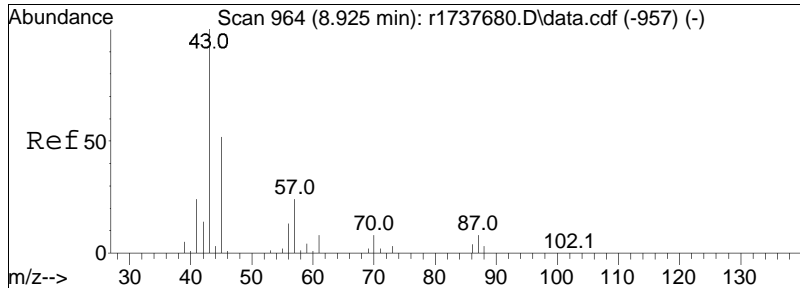




#36
 2-butanone
 Concen: 0.30 ppbV
 RT: 8.175 min Scan# 876
 Delta R.T. 0.025 min
 Lab File: r1738655.D
 Acq: 15 Feb 2024 9:39 PM

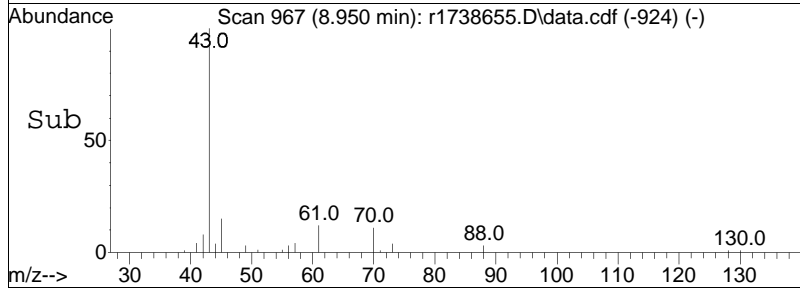
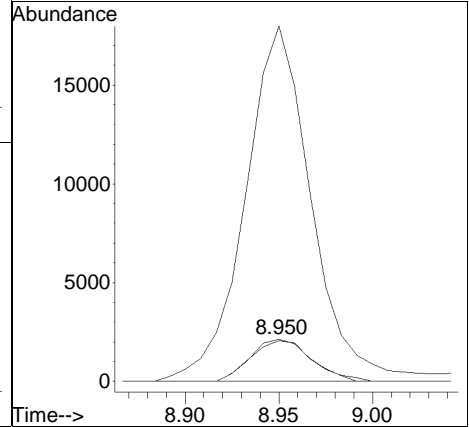
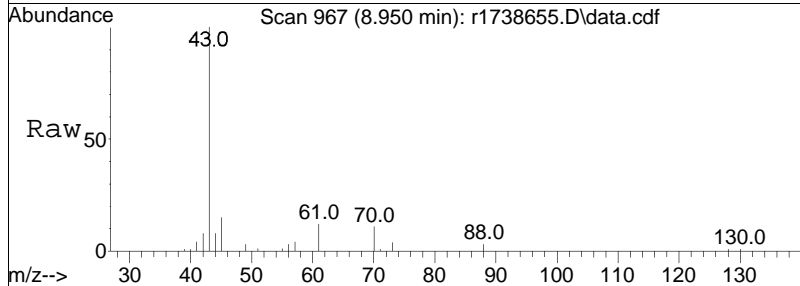
Tgt Ion:	Resp:		
Ion	Ratio	Lower	Upper
43	100		
72	22.7	18.3	27.5
57	6.0	5.0	7.6

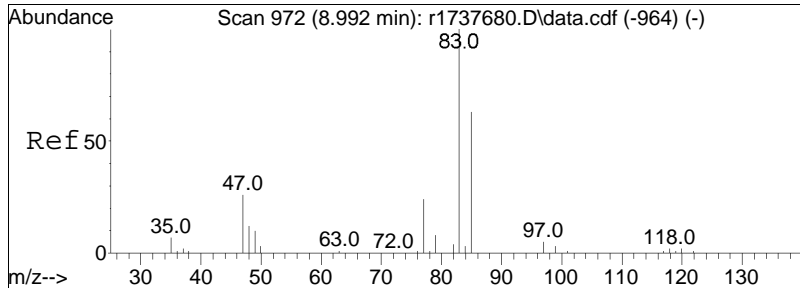




#38
 Ethyl Acetate
 Concen: 0.78 ppbV
 RT: 8.950 min Scan# 967
 Delta R.T. 0.025 min
 Lab File: r1738655.D
 Acq: 15 Feb 2024 9:39 PM

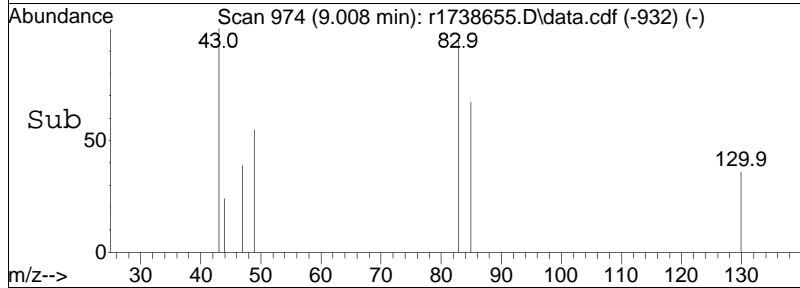
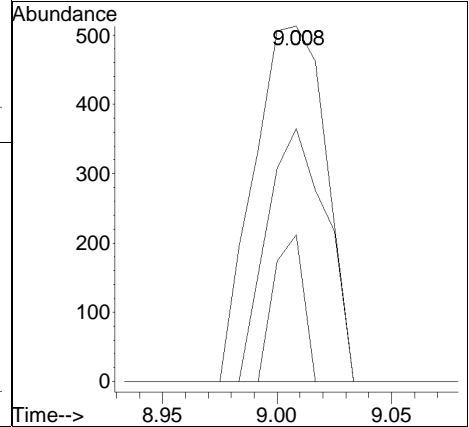
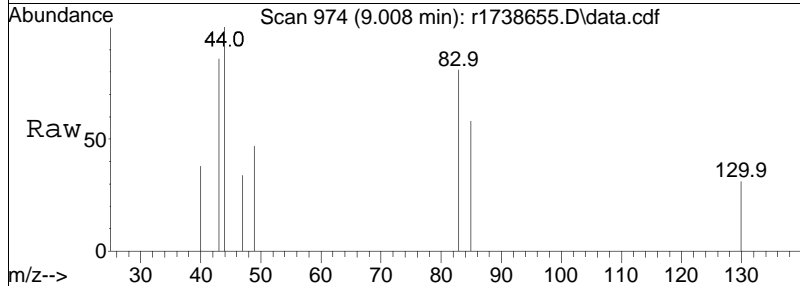
Tgt Ion	Resp	Lower	Upper
61	100		
70	96.7	78.0	117.0
43	843.6	960.0	1440.0#

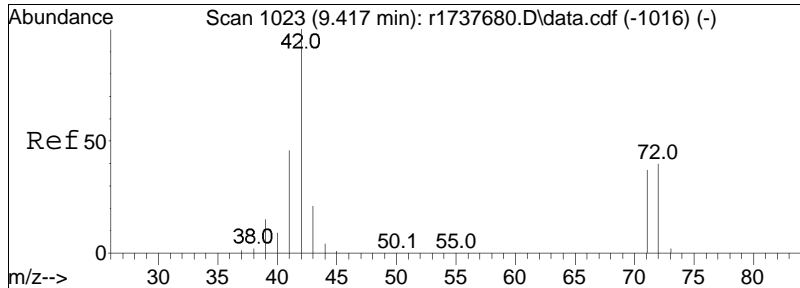




#39
 chloroform
 Concen: 0.03 ppbV
 RT: 9.008 min Scan# 974
 Delta R.T. 0.017 min
 Lab File: r1738655.D
 Acq: 15 Feb 2024 9:39 PM

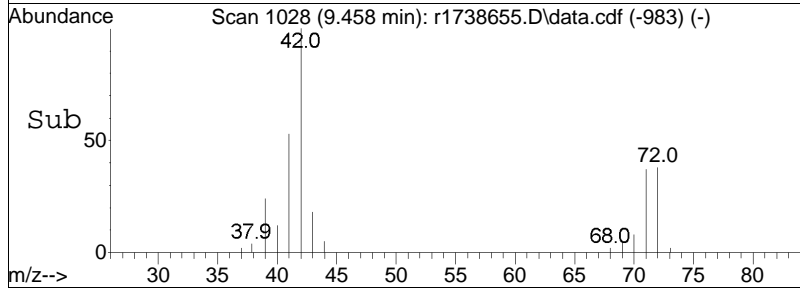
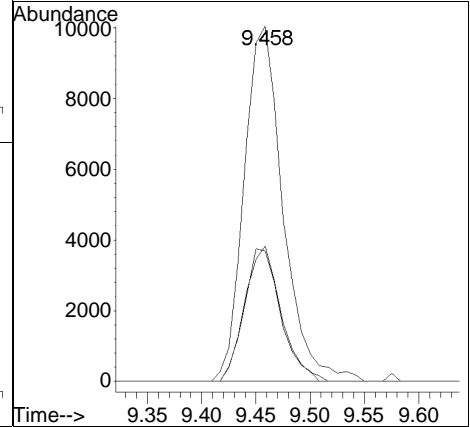
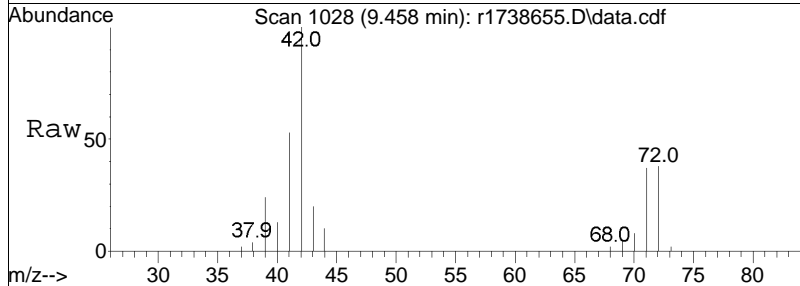
Tgt Ion	Resp	Lower	Upper
83	100		
85	71.2	50.8	76.2
47	41.3	21.0	31.6#

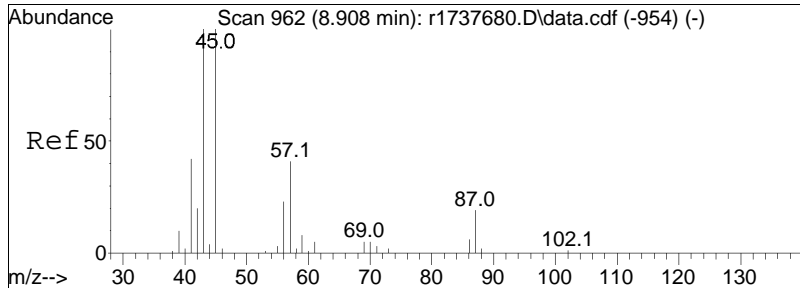




#40
 Tetrahydrofuran
 Concen: 1.01 ppbV
 RT: 9.458 min Scan# 1028
 Delta R.T. 0.042 min
 Lab File: r1738655.D
 Acq: 15 Feb 2024 9:39 PM

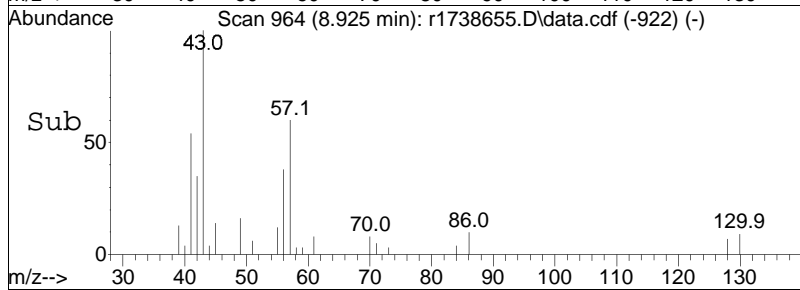
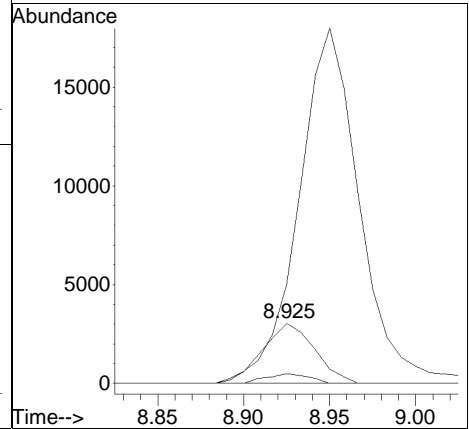
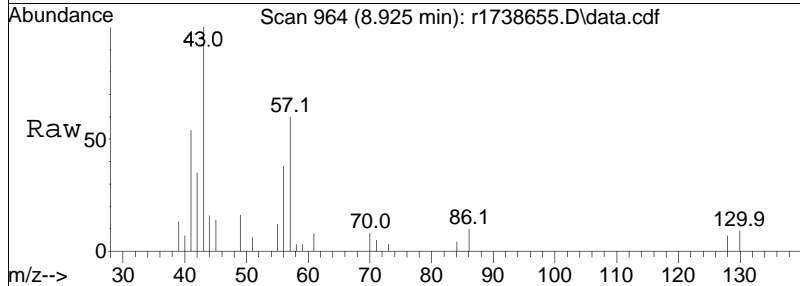
Tgt Ion:	Resp:		
Ion	Ratio	Lower	Upper
42	100		
71	36.7	30.0	45.0
72	38.1	31.9	47.9

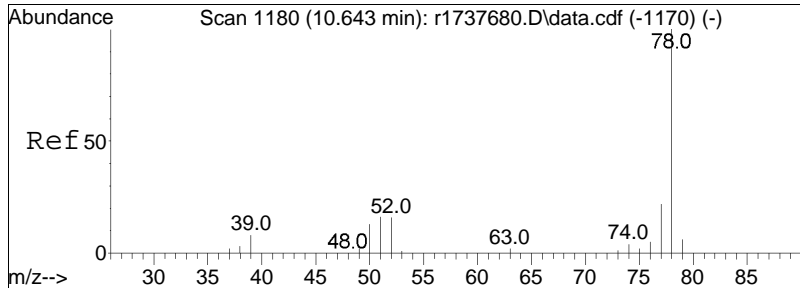




#44
 hexane
 Concen: 0.20 ppbV
 RT: 8.925 min Scan# 964
 Delta R.T. 0.017 min
 Lab File: r1738655.D
 Acq: 15 Feb 2024 9:39 PM

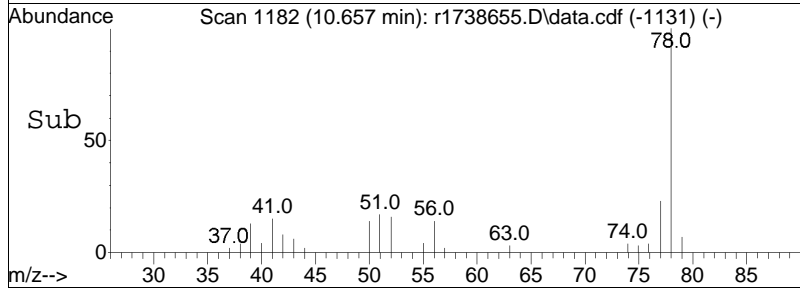
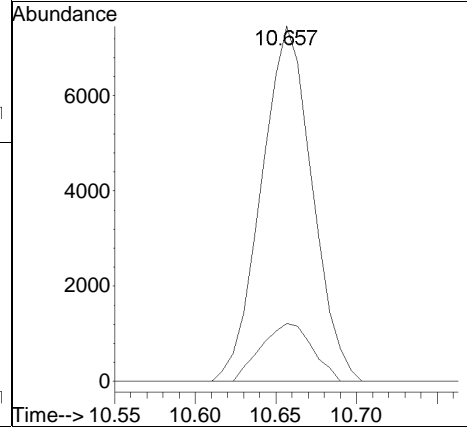
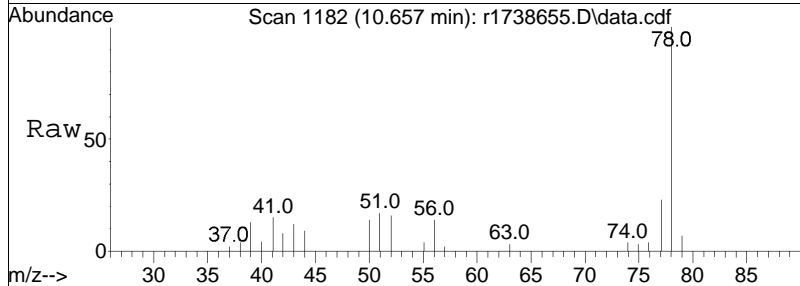
Tgt Ion:	Resp:		
Ion Ratio	Lower	Upper	
57	100		
43	165.5	197.0	295.6#
86	16.3	12.6	19.0

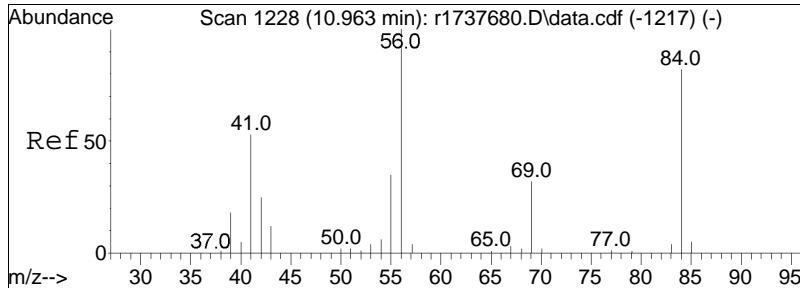




#50
benzene
Concen: 0.23 ppbV
RT: 10.657 min Scan# 1182
Delta R.T. 0.013 min
Lab File: r1738655.D
Acq: 15 Feb 2024 9:39 PM

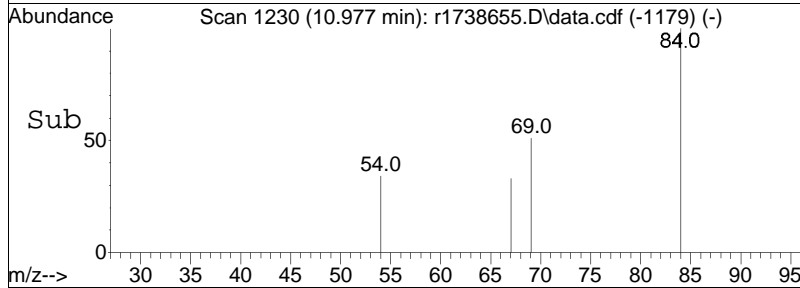
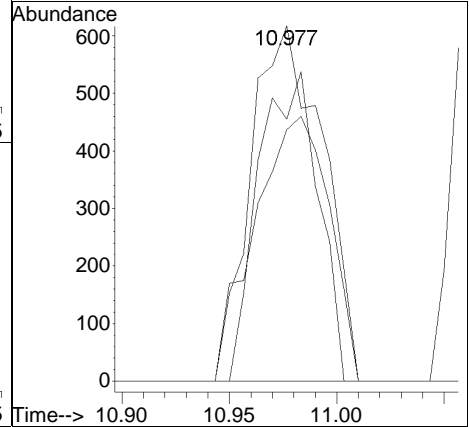
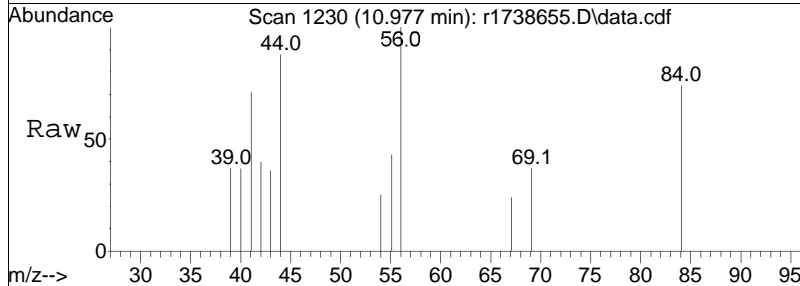
Tgt Ion: 78 Resp: 16362
Ion Ratio Lower Upper
78 100
52 16.3 12.7 19.1

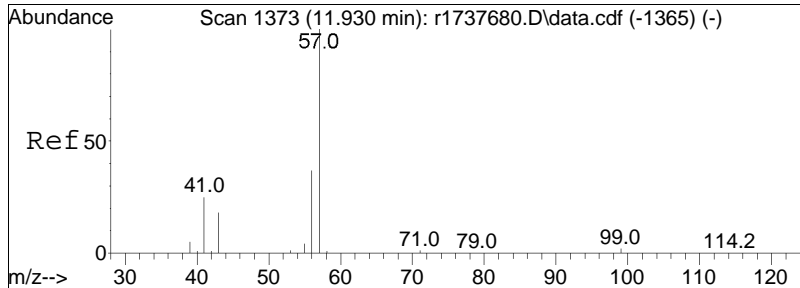




#53
 cyclohexane
 Concen: 0.04 ppbV
 RT: 10.977 min Scan# 1230
 Delta R.T. 0.013 min
 Lab File: r1738655.D
 Acq: 15 Feb 2024 9:39 PM

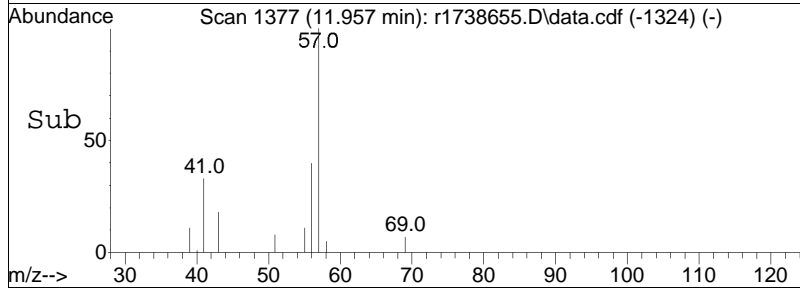
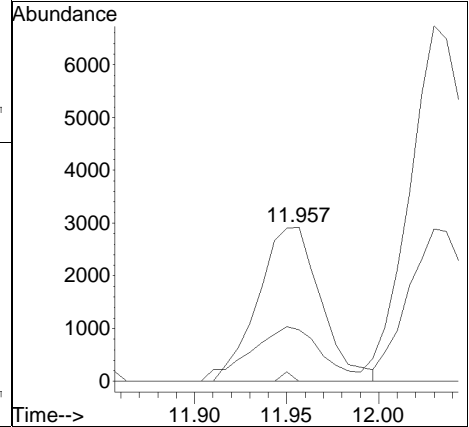
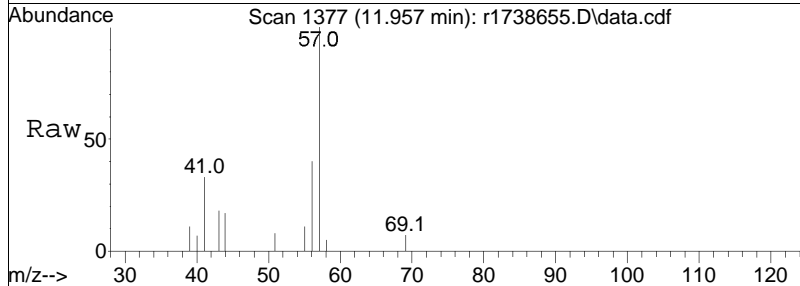
Tgt Ion	Resp	Lower	Upper
56	1439		
84	73.7	65.7	98.5
41	70.8	42.5	63.7#

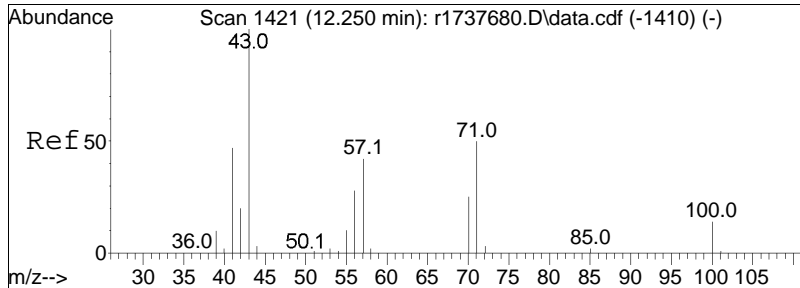




#60
 2,2,4-trimethylpentane
 Concen: 0.07 ppbV
 RT: 11.957 min Scan# 1377
 Delta R.T. 0.027 min
 Lab File: r1738655.D
 Acq: 15 Feb 2024 9:39 PM

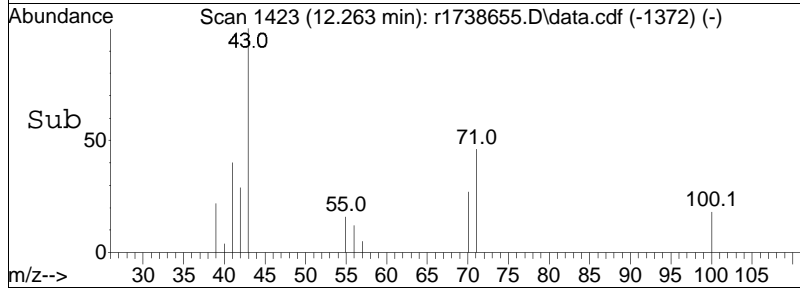
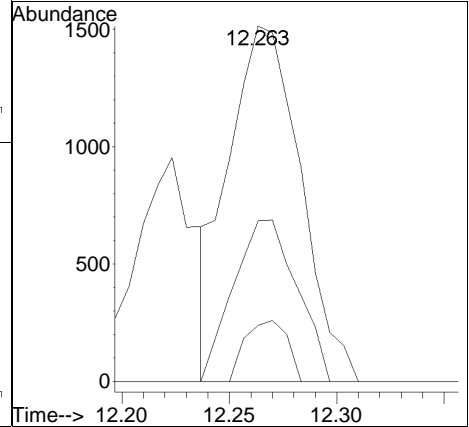
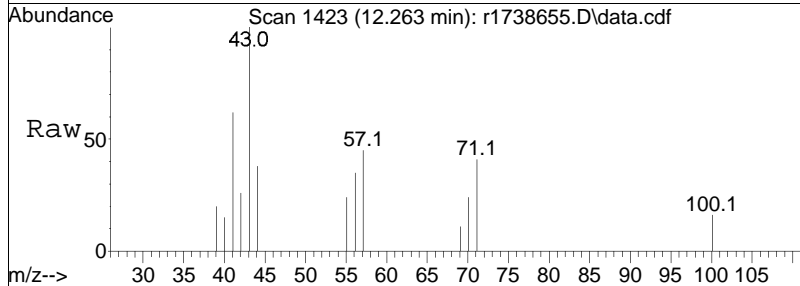
Tgt Ion	Resp	Lower	Upper
57	100		
99	0.0	4.0	6.0#
41	33.5	19.8	29.6#

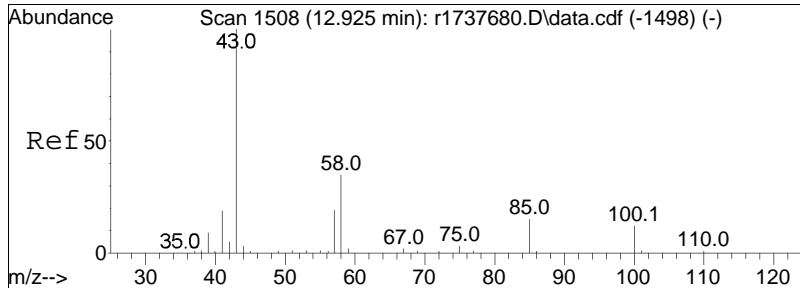




#62
 heptane
 Concen: 0.08 ppbV
 RT: 12.263 min Scan# 1423
 Delta R.T. 0.013 min
 Lab File: r1738655.D
 Acq: 15 Feb 2024 9:39 PM

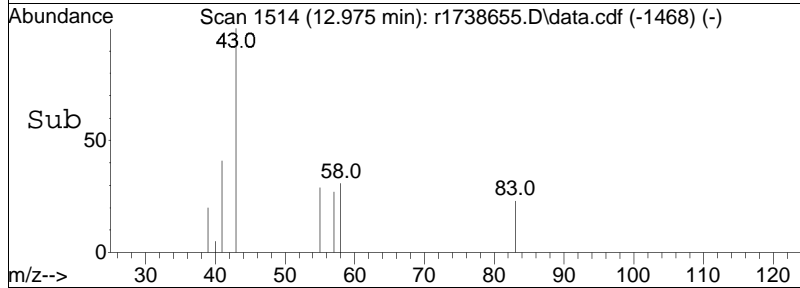
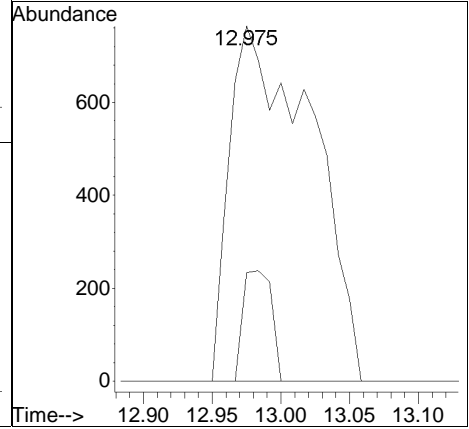
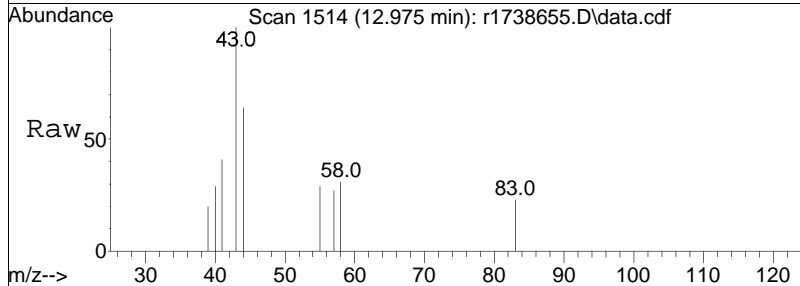
Tgt Ion	Resp	Lower	Upper
43	3533		
57	45.2	33.5	50.3
100	15.8	11.3	16.9

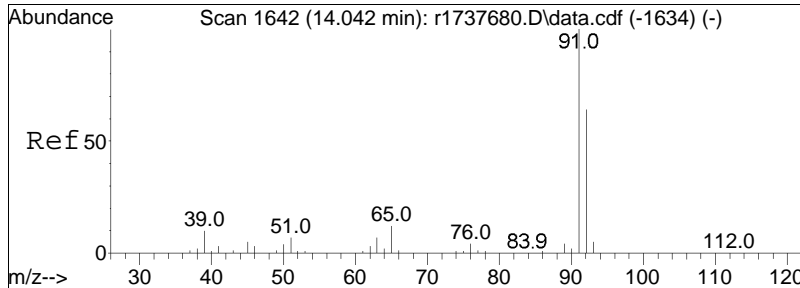




#64
 4-methyl-2-pentanone
 Concen: 0.06 ppbV
 RT: 12.975 min Scan# 1514
 Delta R.T. 0.050 min
 Lab File: r1738655.D
 Acq: 15 Feb 2024 9:39 PM

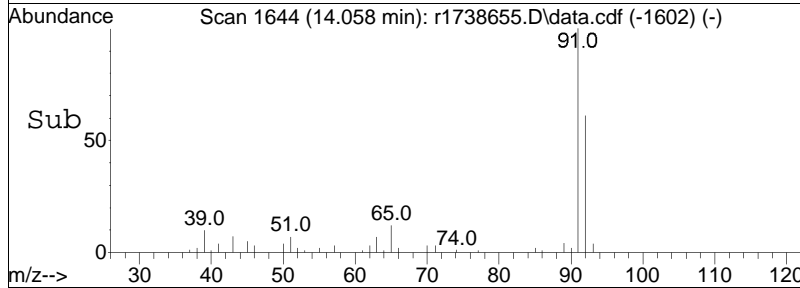
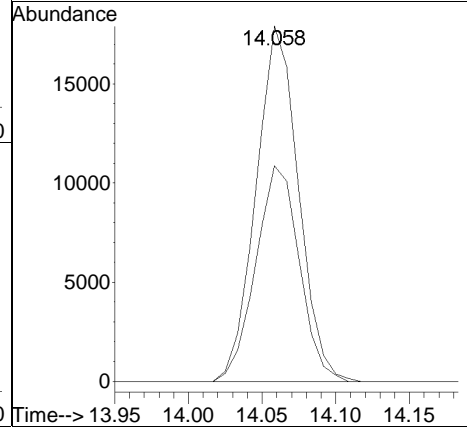
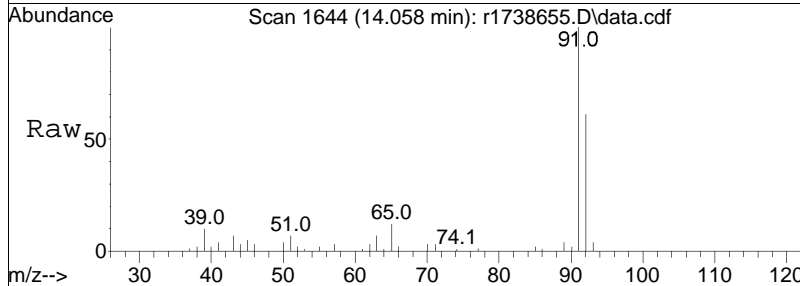
Tgt Ion	Resp	Lower	Upper
43	3180		
58	30.6	27.9	41.9
100	0.0	9.9	14.9#

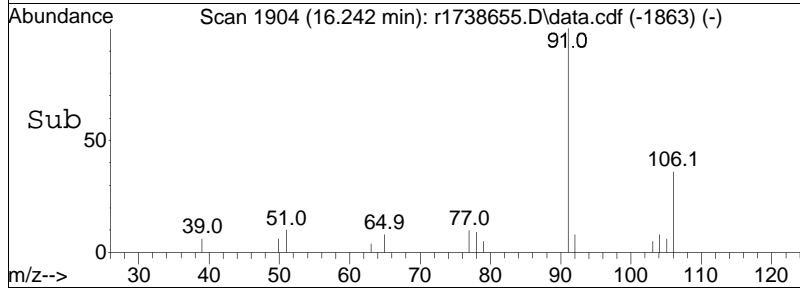
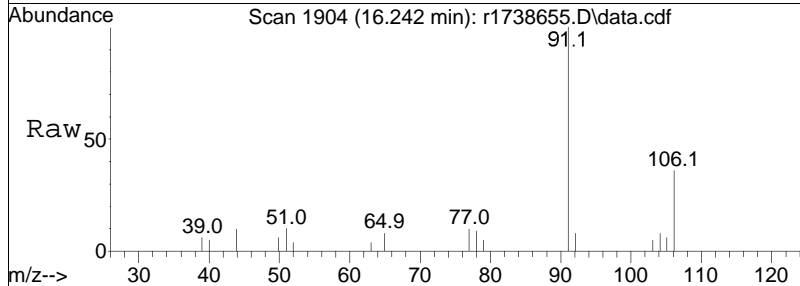
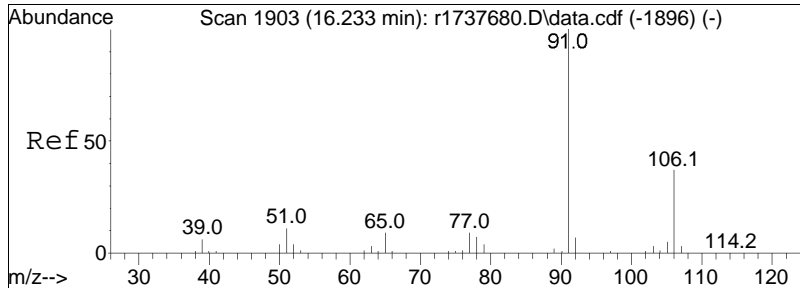




#68
 toluene
 Concen: 0.47 ppbV
 RT: 14.058 min Scan# 1644
 Delta R.T. 0.017 min
 Lab File: r1738655.D
 Acq: 15 Feb 2024 9:39 PM

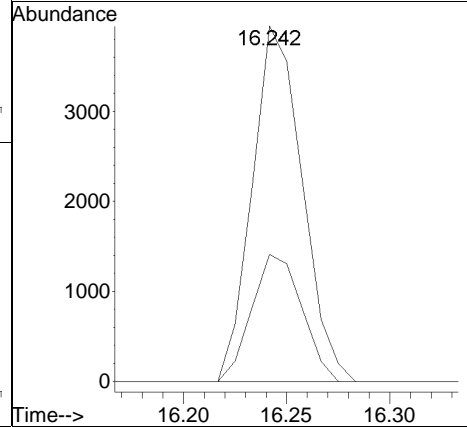
Tgt Ion: 91 Resp: 35823
 Ion Ratio Lower Upper
 91 100
 92 60.7 51.2 76.8

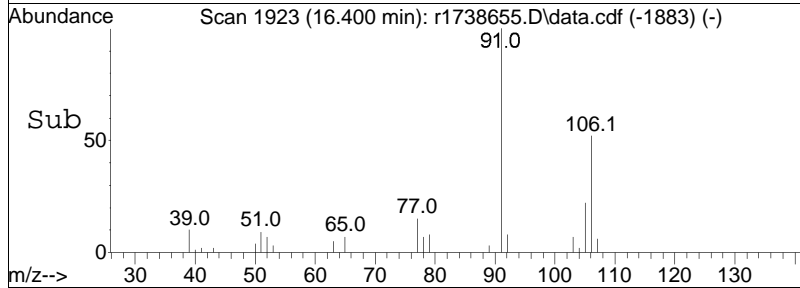
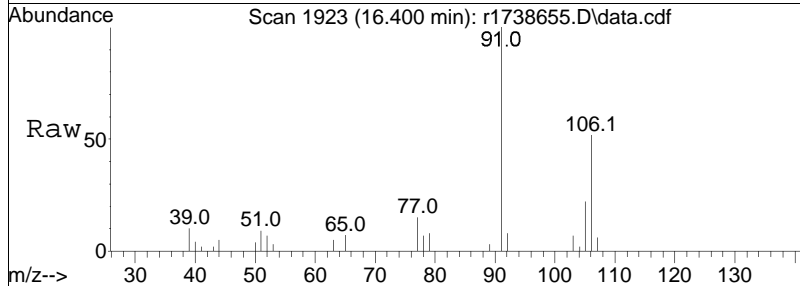
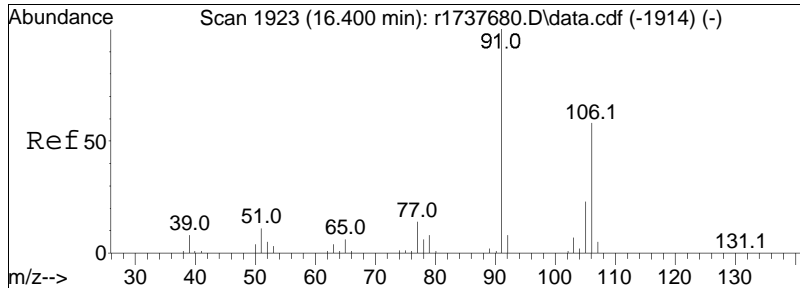




#81
ethylbenzene
Concen: 0.07 ppbV
RT: 16.242 min Scan# 1904
Delta R.T. 0.008 min
Lab File: r1738655.D
Acq: 15 Feb 2024 9:39 PM

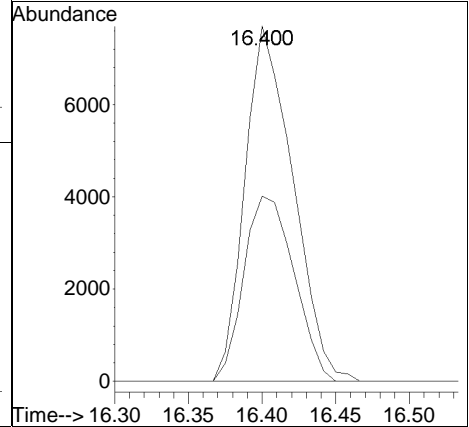
Tgt Ion	Resp	Lower	Upper
91	6648		
106	35.7	29.4	44.0

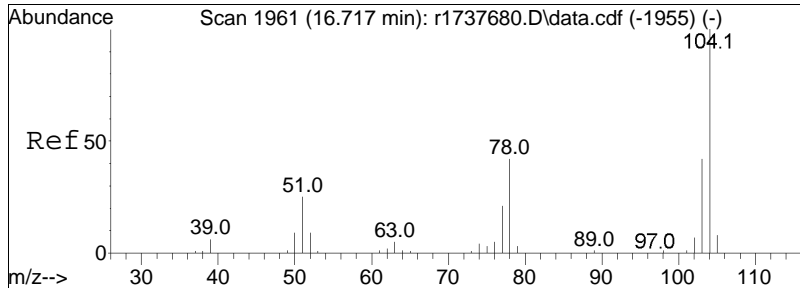




#83
 m+p-xylene
 Concen: 0.23 ppbV
 RT: 16.400 min Scan# 1923
 Delta R.T. 0.000 min
 Lab File: r1738655.D
 Acq: 15 Feb 2024 9:39 PM

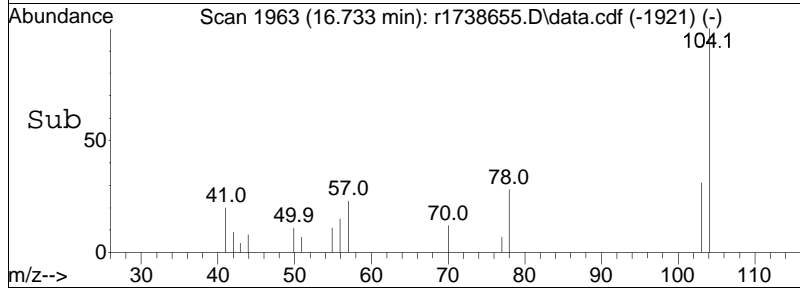
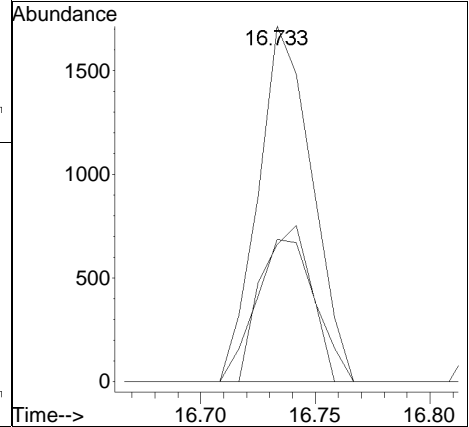
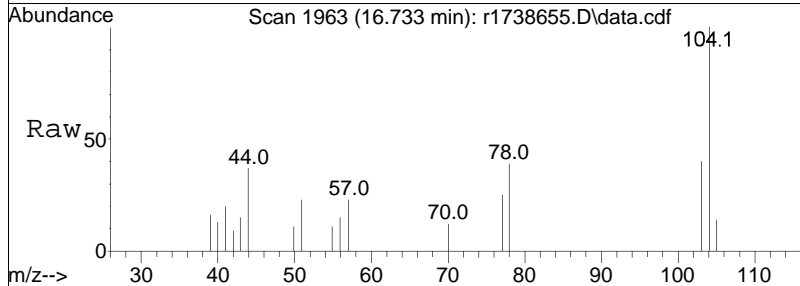
Tgt Ion: 91 Resp: 17486
 Ion Ratio Lower Upper
 91 100
 106 52.2 46.1 69.1

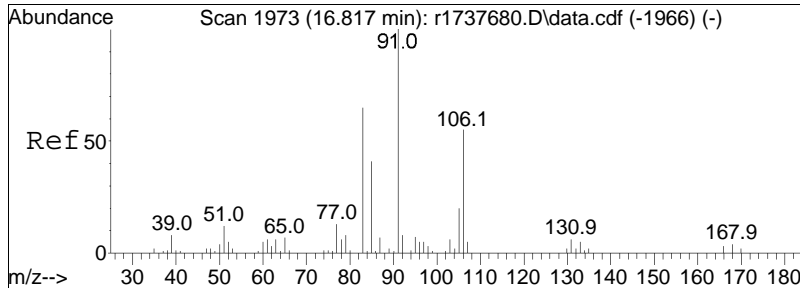




#85
 styrene
 Concen: 0.04 ppbV
 RT: 16.733 min Scan# 1963
 Delta R.T. 0.017 min
 Lab File: r1738655.D
 Acq: 15 Feb 2024 9:39 PM

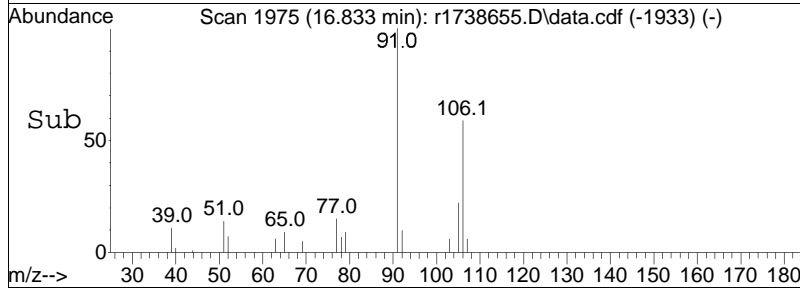
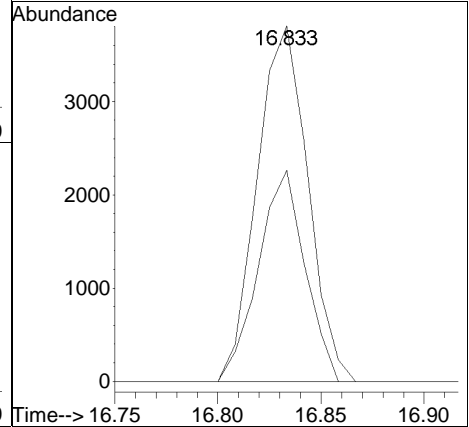
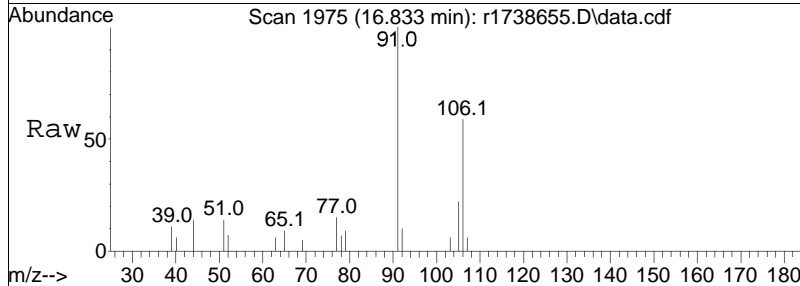
Tgt Ion	Ratio	Lower	Upper
104	100		
103	40.0	33.9	50.9
78	38.6	33.4	50.2

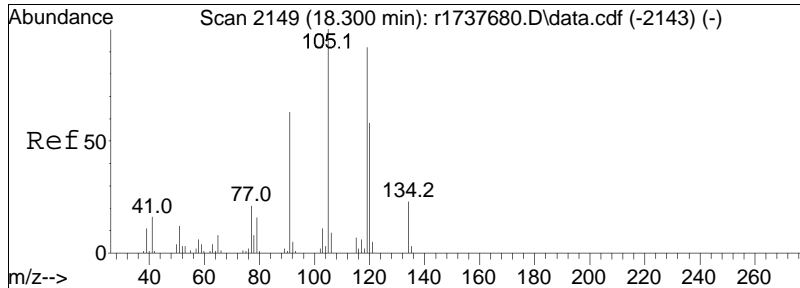




#87
 o-xylene
 Concen: 0.09 ppbV
 RT: 16.833 min Scan# 1975
 Delta R.T. 0.017 min
 Lab File: r1738655.D
 Acq: 15 Feb 2024 9:39 PM

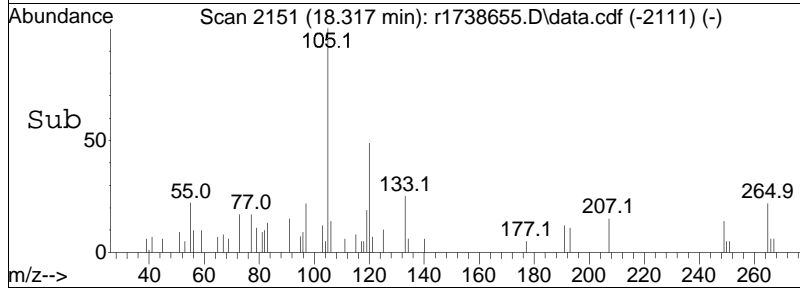
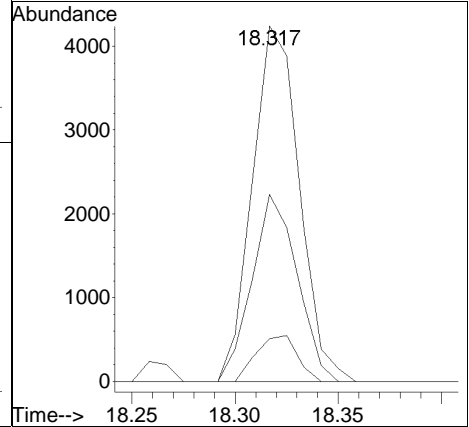
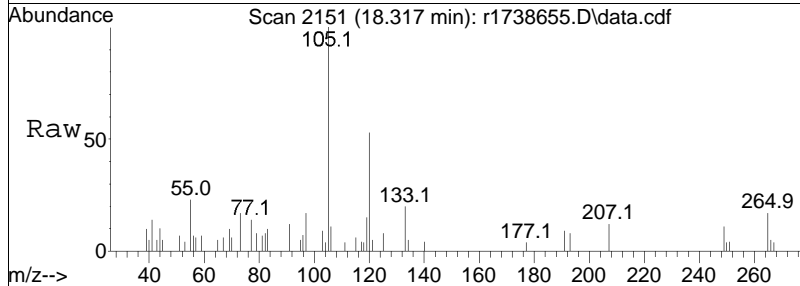
Tgt Ion: 91 Resp: 6513
 Ion Ratio Lower Upper
 91 100
 106 59.4 44.2 66.4





#99
 1,2,4-trimethylbenzene
 Concen: 0.07 ppbV
 RT: 18.317 min Scan# 2151
 Delta R.T. 0.017 min
 Lab File: r1738655.D
 Acq: 15 Feb 2024 9:39 PM

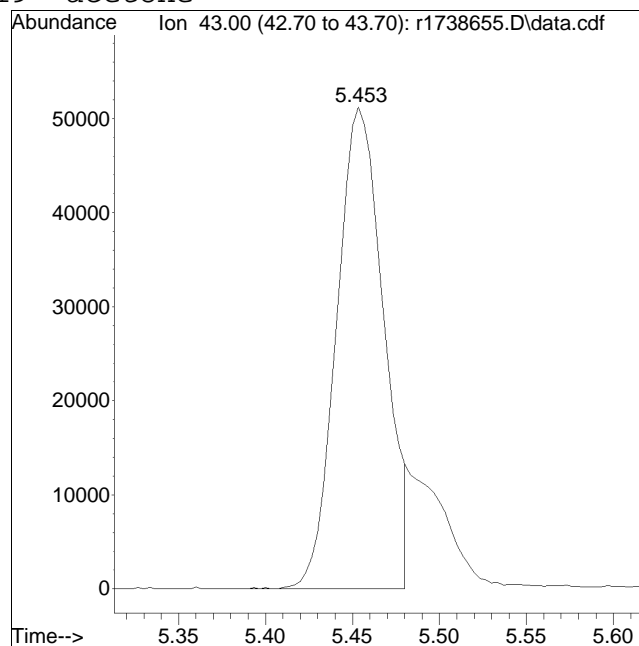
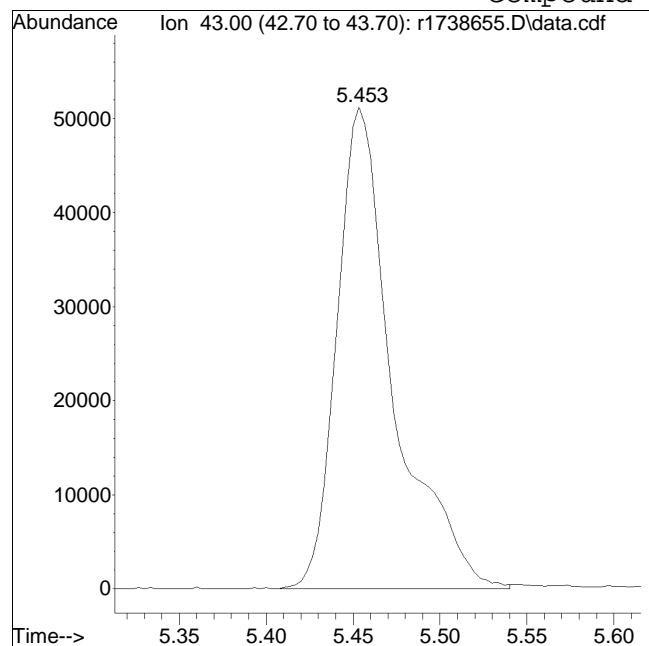
Tgt Ion	Ratio	Lower	Upper
105	100		
120	52.6	46.0	69.0
91	12.0	50.6	76.0#



Manual Integration Report

Data Path : O:\Forensics\Data\Airlab17QMethod : TFS17_240107.M
Data File : r1738655.D Operator : AIRLAB17:JMB
Date Inj'd : 2/15/2020 0:9: 9 Instrument :
Sample : L2407645-02,3,250,250 Quant Date : 2/16/2024 8:05 am

Compound #19: acetone



Original Peak Response = 116338

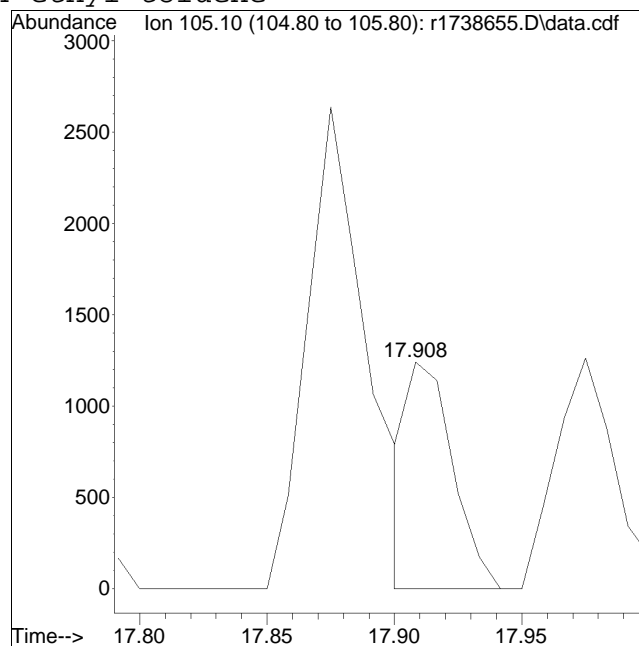
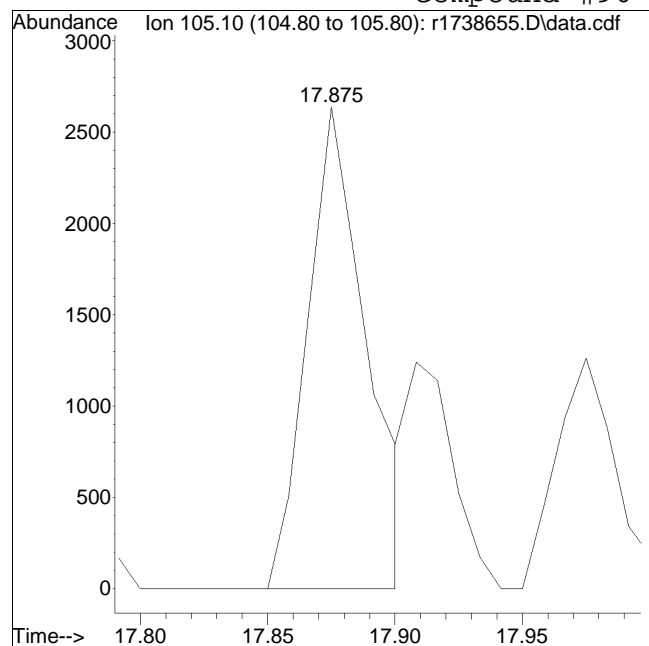
Manual Peak Response = 97025 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

Data Path : O:\Forensics\Data\Airlab17QMethod : TFS17_240107.M
Data File : r1738655.D Operator : AIRLAB17:JMB
Date Inj'd : 2/15/2020 0:9: 9 Instrument :
Sample : L2407645-02,3,250,250 Quant Date : 2/16/2024 8:05 am

Compound #96: 4-ethyl toluene



Original Peak Response = 4237

Manual Peak Response = 1540 M3

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab17\2024\02\0215T\
 Data File : r1738657.D
 Acq On : 15 Feb 2024 10:57 PM
 Operator : AIRLAB17:JMB
 Sample : L2407645-03,3,250,250
 Misc : WG1885731,ICAL20743
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 16 08:05:45 2024
 Quant Method : O:\Forensics\Data\Airlab17\2024\02\0215T\TFS17_240107.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Mon Jan 08 15:04:31 2024
 Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab17\2024\02\0215T\r1738648.D
 Sub List : TO15-NY-7-SIM - .

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	8.858	49	356088	10.000	ppbV	0.02
Standard Area =	370847		Recovery =		96.02%	
43) 1,4-difluorobenzene	11.090	114	930326	10.000	ppbV	0.02
Standard Area =	986523		Recovery =		94.30%	
67) chlorobenzene-D5	15.850	54	134770	10.000	ppbV	0.02
Standard Area =	142298		Recovery =		94.71%	

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) dichlorodifluoromethane	3.880	85	17281	0.512	ppbV	99
6) chloromethane	4.036	50	8994	0.502	ppbV	94
7) Freon-114	4.132		0	N.D.		
10) 1,3-butadiene	4.390		0	N.D.		
13) bromomethane	0.000		0	N.D.		
14) chloroethane	0.000		0	N.D.		
15) ethanol	4.954	31	114870	7.537	ppbV	98
17) vinyl bromide	0.000		0	N.D.		
19) acetone	5.463	43	52588M6	2.426	ppbV	
21) trichlorofluoromethane	5.647	101	6392	0.239	ppbV	85
22) isopropyl alcohol	5.737	45	21844	0.775	ppbV	99
27) tertiary butyl alcohol	6.396	59	4616	0.141	ppbV #	60
28) methylene chloride	6.468	49	11588	0.485	ppbV	97
29) 3-chloropropene	6.474		0	N.D.		
30) carbon disulfide	6.768		0	N.D.		
31) Freon 113	6.768	101	2392	0.069	ppbV	97
32) trans-1,2-dichloroethene	0.000		0	N.D.		
33) 1,1-dichloroethane	0.000		0	N.D.		
34) MTBE	0.000		0	N.D.		
36) 2-butanone	8.192	43	6341	0.146	ppbV #	90
38) Ethyl Acetate	8.975		0	N.D.		
39) chloroform	9.008		0	N.D.		
40) Tetrahydrofuran	0.000		0	N.D.	d	
42) 1,2-dichloroethane	9.850		0	N.D.		
44) hexane	8.933	57	2378	0.077	ppbV #	10
50) benzene	10.663	78	13611	0.197	ppbV	97
53) cyclohexane	10.983		0	N.D.		
56) 1,2-dichloropropane	0.000		0	N.D.		

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab17\2024\02\0215T\
 Data File : r1738657.D
 Acq On : 15 Feb 2024 10:57 PM
 Operator : AIRLAB17:JMB
 Sample : L2407645-03,3,250,250
 Misc : WG1885731,ICAL20743
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 16 08:05:45 2024
 Quant Method : O:\Forensics\Data\Airlab17\2024\02\0215T\TFS17_240107.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Mon Jan 08 15:04:31 2024
 Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab17\2024\02\0215T\r1738648.D
 Sub List : TO15-NY-7-SIM - .

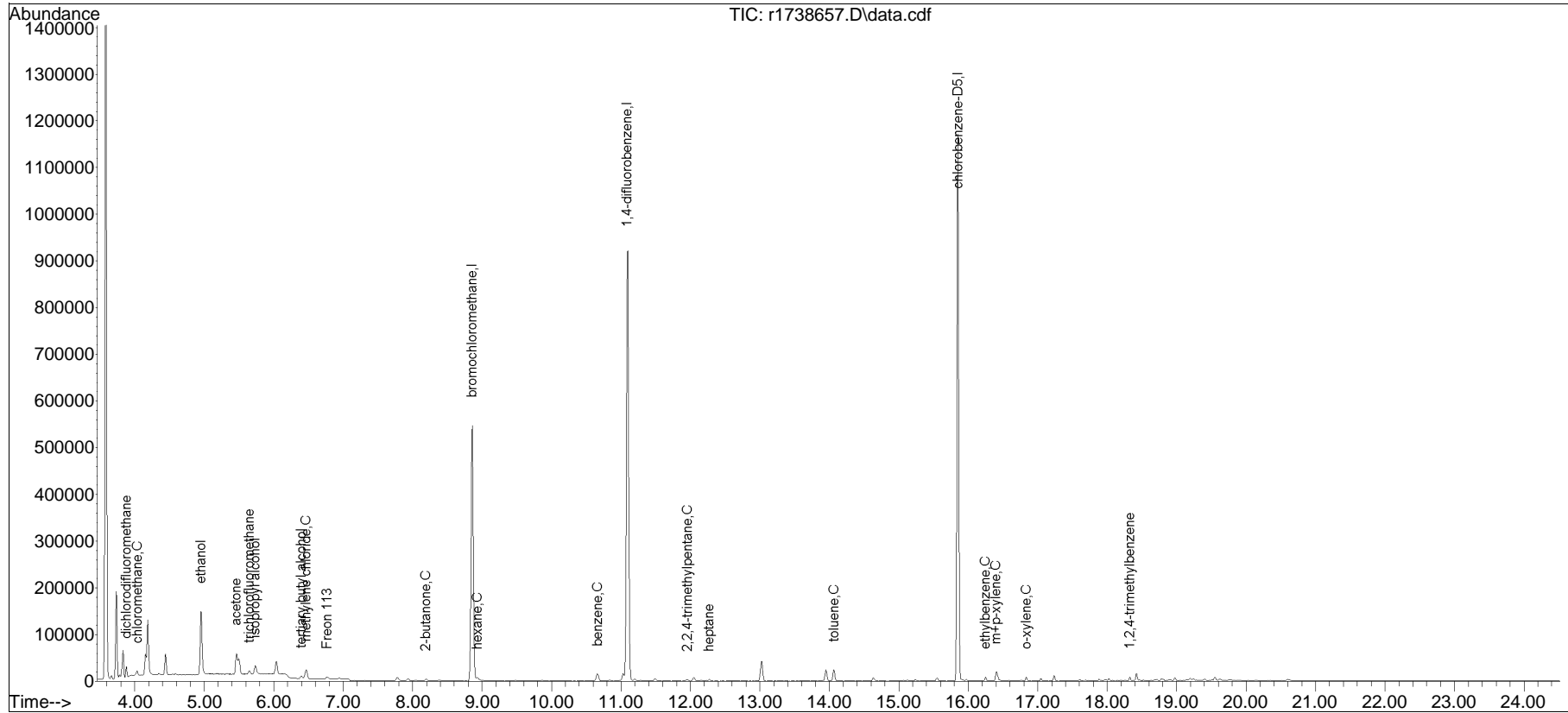
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
57) bromodichloromethane	0.000		0		N.D.	
58) 1,4-dioxane	0.000		0		N.D.	
60) 2,2,4-trimethylpentane	11.957	57	3637	0.036	ppbV #	70
62) heptane	12.270	43	1813	0.042	ppbV #	86
63) cis-1,3-dichloropropene	0.000		0		N.D.	
64) 4-methyl-2-pentanone	0.000		0		N.D. d	
65) trans-1,3-dichloropropene	0.000		0		N.D.	
66) 1,1,2-trichloroethane	0.000		0		N.D.	
68) toluene	14.067	91	19246	0.260	ppbV	97
72) 2-hexanone	14.333		0		N.D.	
74) dibromochloromethane	0.000		0		N.D.	
75) 1,2-dibromoethane	0.000		0		N.D.	
80) chlorobenzene	0.000		0		N.D.	
81) ethylbenzene	16.250	91	6096	0.065	ppbV	96
83) m+p-xylene	16.400	91	15909	0.215	ppbV	100
84) bromoform	0.000		0		N.D.	
85) styrene	16.742		0		N.D.	
86) 1,1,2,2-tetrachloroethane	0.000		0		N.D.	
87) o-xylene	16.833	91	4837	0.065	ppbV	97
96) 4-ethyl toluene	17.883		0		N.D.	
97) 1,3,5-trimethylbenzene	17.975		0		N.D.	
99) 1,2,4-trimethylbenzene	18.325	105	3373	0.039	ppbV #	63
101) Benzyl Chloride	18.325		0		N.D.	
102) 1,3-dichlorobenzene	18.517		0		N.D.	
103) 1,4-dichlorobenzene	18.517		0		N.D.	
107) 1,2-dichlorobenzene	0.000		0		N.D.	
115) 1,2,4-trichlorobenzene	0.000		0		N.D.	
119) hexachlorobutadiene	0.000		0		N.D.	

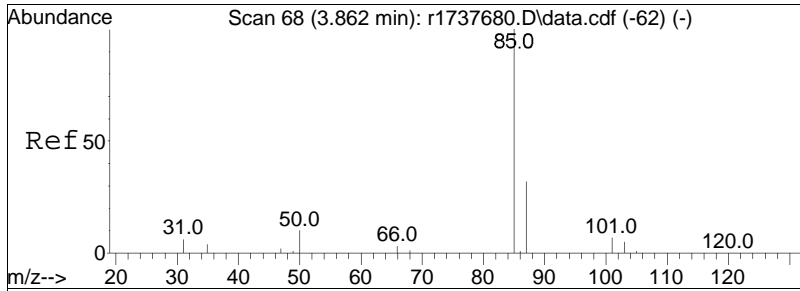
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sub List : TO15-NY-7-SIM - .\Airlab17\2024\02\0215T\r1738648.D

Data Path : O:\Forensics\Data\Airlab17\2024\02\0215T\
Data File : r1738657.D
Acq On : 15 Feb 2024 10:57 PM
Operator : AIRLAB17:JMB
Sample : L2407645-03,3,250,250
Misc : WG1885731,ICAL20743
ALS Vial : 0 Sample Multiplier: 1

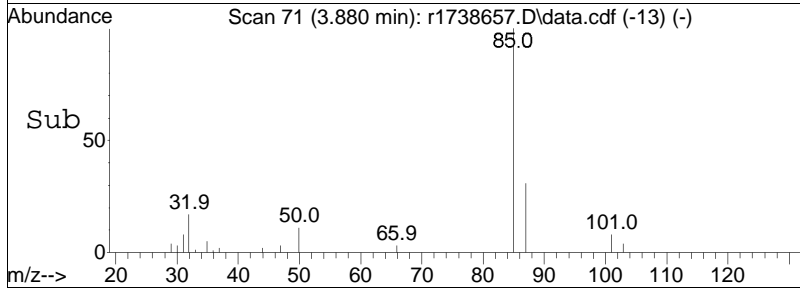
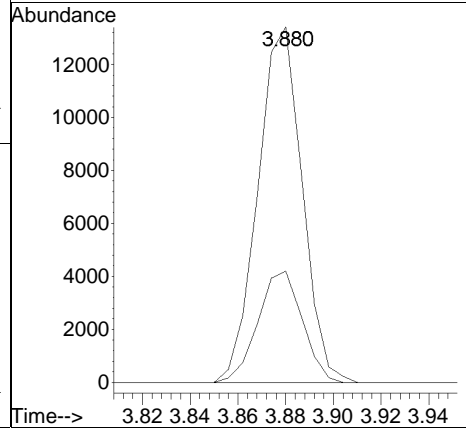
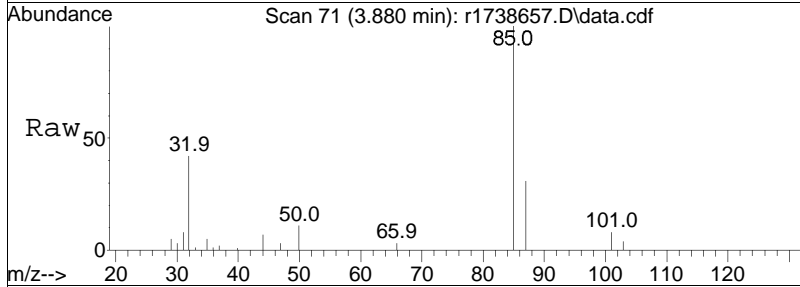
Quant Time: Feb 16 08:05:45 2024
Quant Method : O:\Forensics\Data\Airlab17\2024\02\0215T\TFS17_240107.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Mon Jan 08 15:04:31 2024
Response via : Initial Calibration

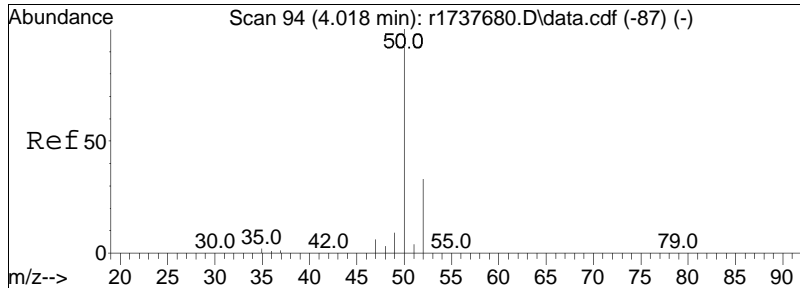




#5
dichlorodifluoromethane
Concen: 0.51 ppbV
RT: 3.880 min Scan# 71
Delta R.T. 0.018 min
Lab File: r1738657.D
Acq: 15 Feb 2024 10:57 PM

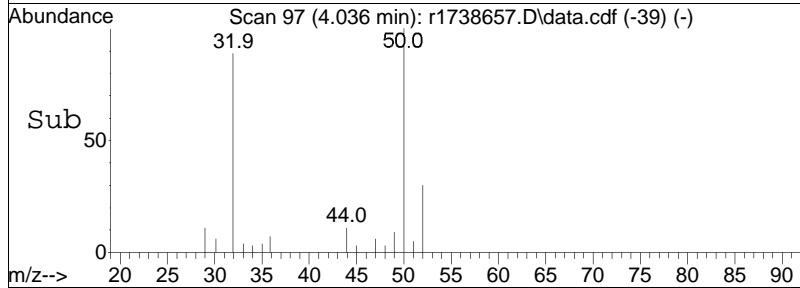
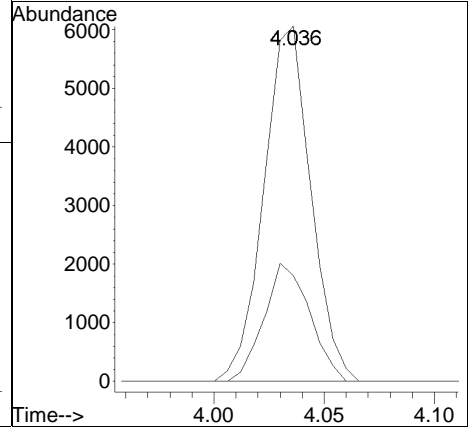
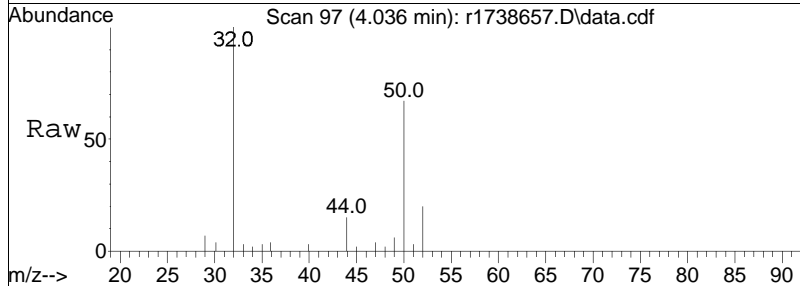
Tgt Ion: 85 Resp: 17281
Ion Ratio Lower Upper
85 100
87 31.3 25.4 38.0

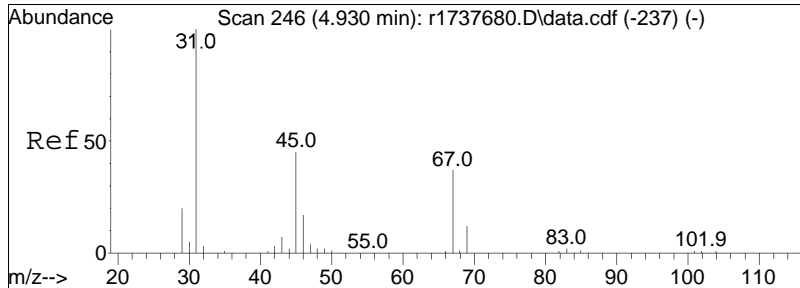




#6
 chloromethane
 Concen: 0.50 ppbV
 RT: 4.036 min Scan# 97
 Delta R.T. 0.018 min
 Lab File: r1738657.D
 Acq: 15 Feb 2024 10:57 PM

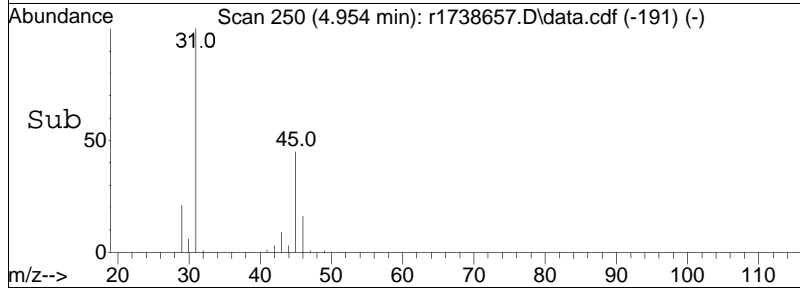
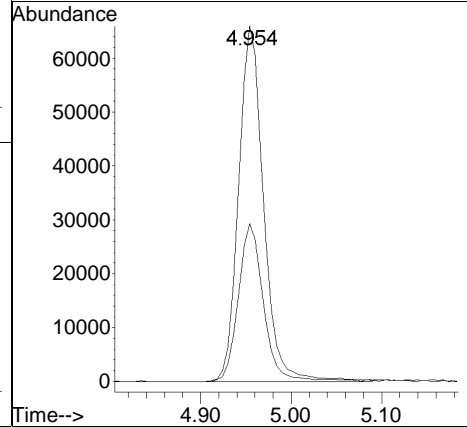
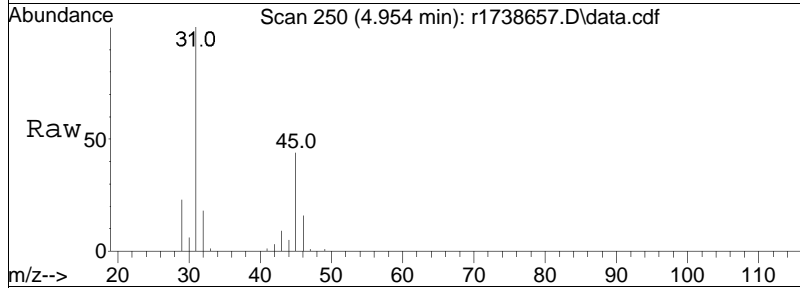
Tgt Ion:	50	Resp:	8994
Ion Ratio	100	Lower	Upper
52	29.8	26.4	39.6

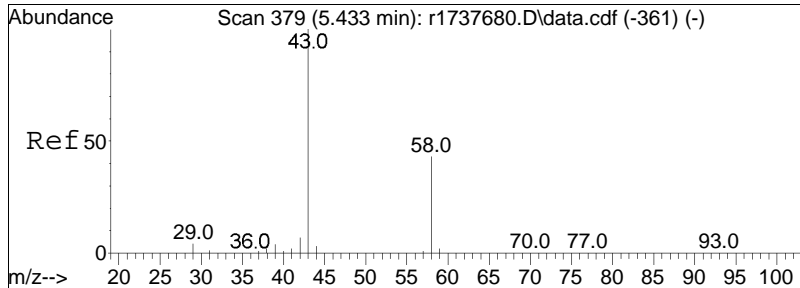




#15
 ethanol
 Concen: 7.54 ppbV
 RT: 4.954 min Scan# 250
 Delta R.T. 0.024 min
 Lab File: r1738657.D
 Acq: 15 Feb 2024 10:57 PM

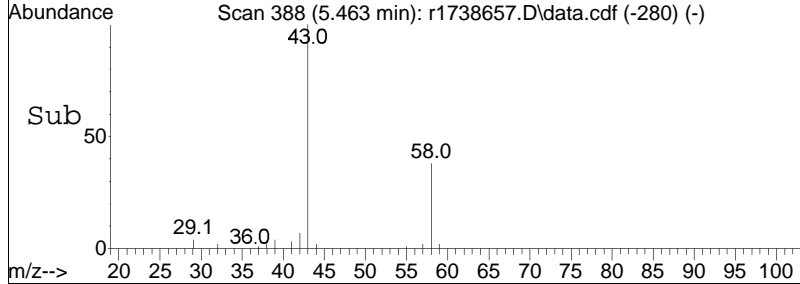
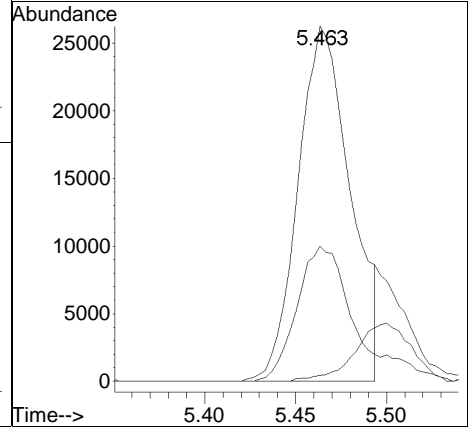
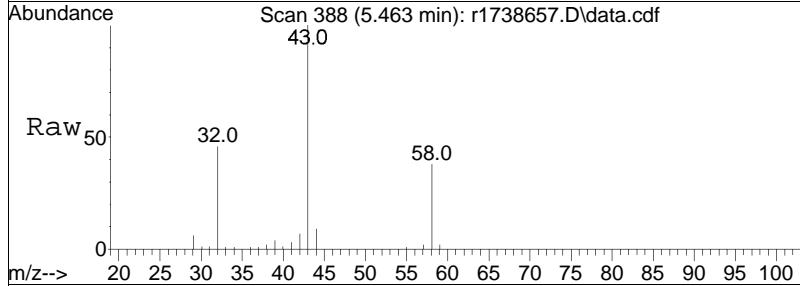
Tgt Ion:	31	Resp:	114870
Ion Ratio	Lower	Upper	
31	100		
45	44.4	36.3	54.5

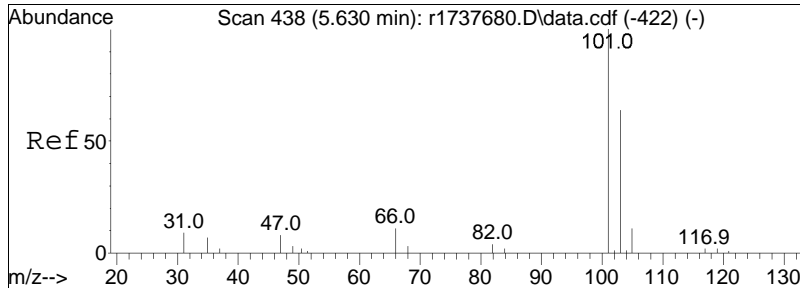




#19
 acetone
 Concen: 2.43 ppbV m
 RT: 5.463 min Scan# 388
 Delta R.T. 0.030 min
 Lab File: r1738657.D
 Acq: 15 Feb 2024 10:57 PM

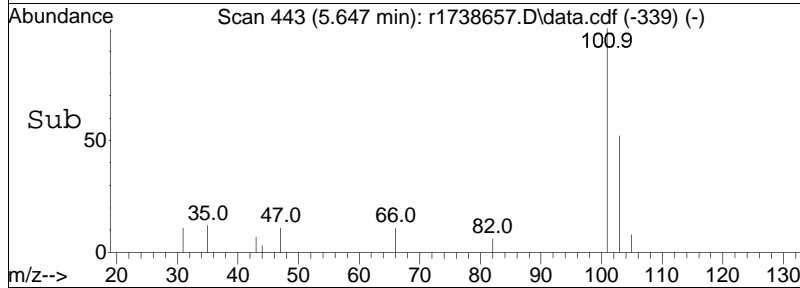
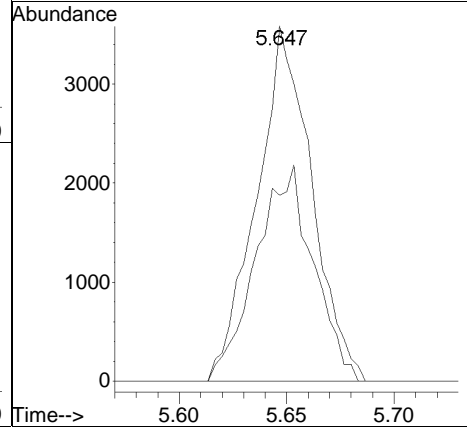
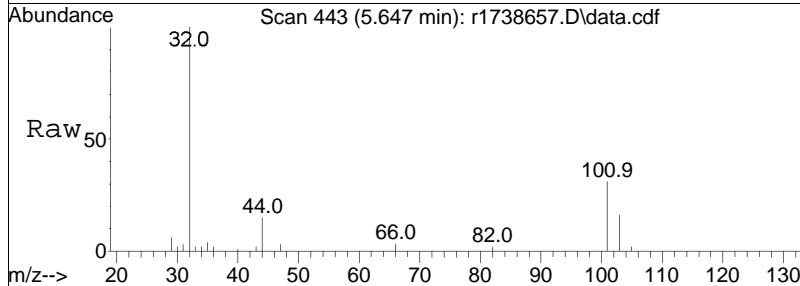
Tgt Ion	Resp	Lower	Upper
43	52588		
58	38.0	34.0	51.0
57	1.6	0.9	1.3#

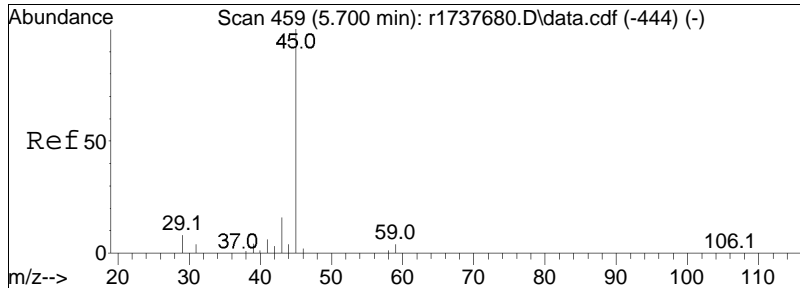




#21
 trichlorofluoromethane
 Concen: 0.24 ppbV
 RT: 5.647 min Scan# 443
 Delta R.T. 0.017 min
 Lab File: r1738657.D
 Acq: 15 Feb 2024 10:57 PM

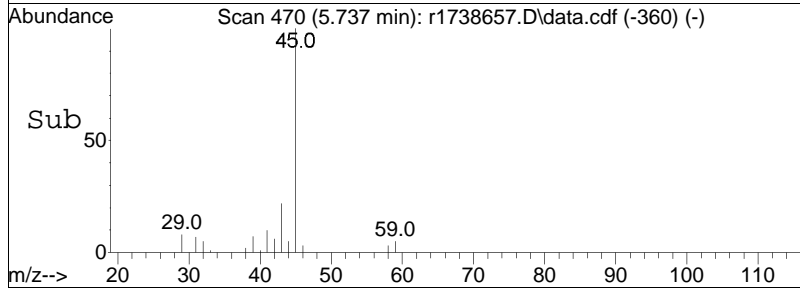
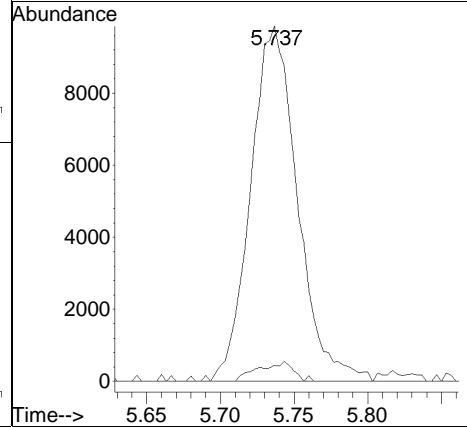
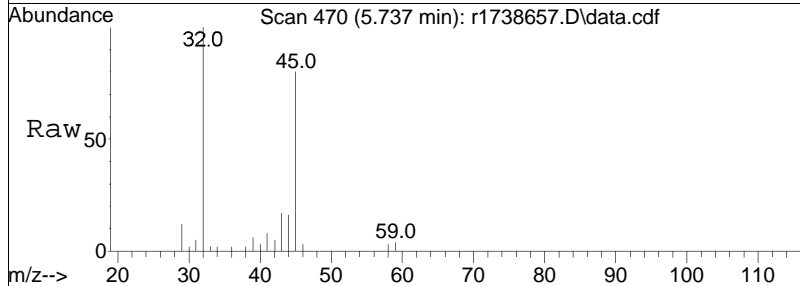
Tgt Ion	Resp	Lower	Upper
101	100		
103	52.4	51.2	76.8

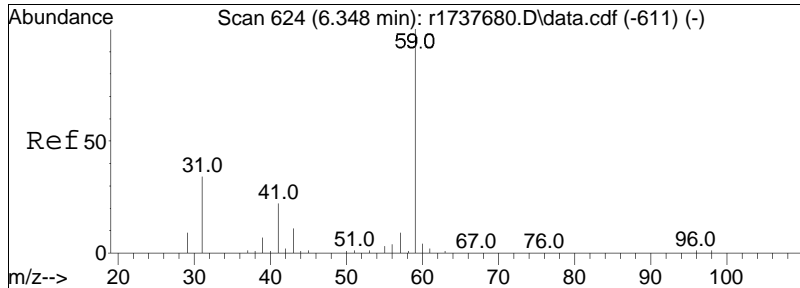




#22
 isopropyl alcohol
 Concen: 0.78 ppbV
 RT: 5.737 min Scan# 470
 Delta R.T. 0.037 min
 Lab File: r1738657.D
 Acq: 15 Feb 2024 10:57 PM

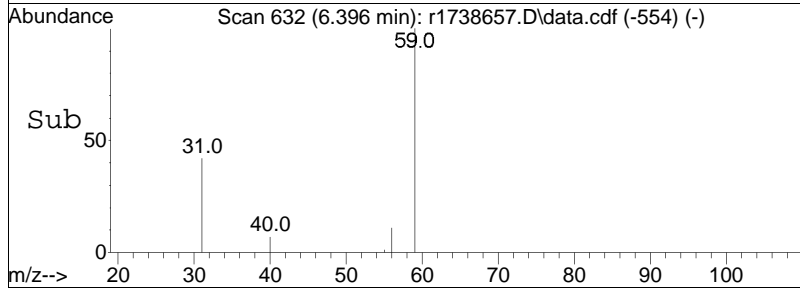
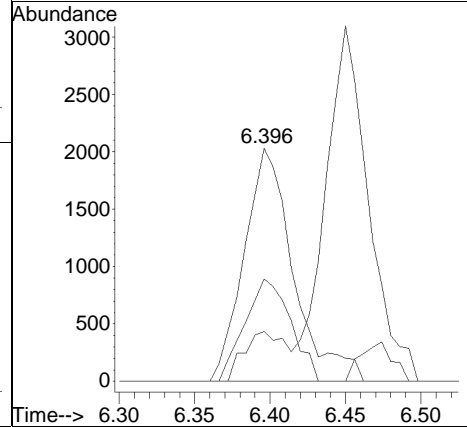
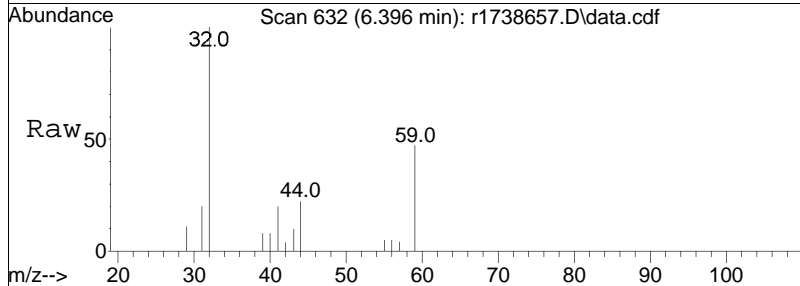
Tgt Ion:	45	59	Resp:	21844
Ion Ratio	100	4.5	Lower	Upper
			3.4	5.2

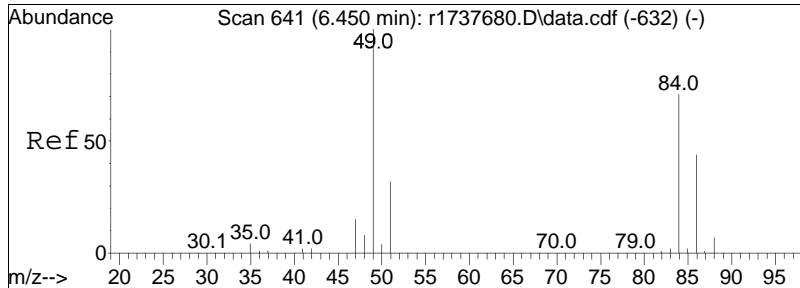




#27
 tertiary butyl alcohol
 Concen: 0.14 ppbV
 RT: 6.396 min Scan# 632
 Delta R.T. 0.048 min
 Lab File: r1738657.D
 Acq: 15 Feb 2024 10:57 PM

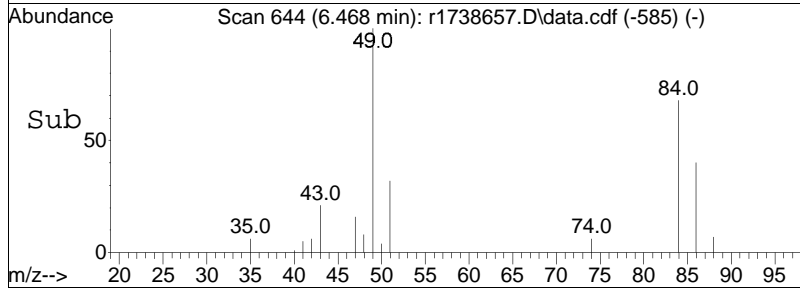
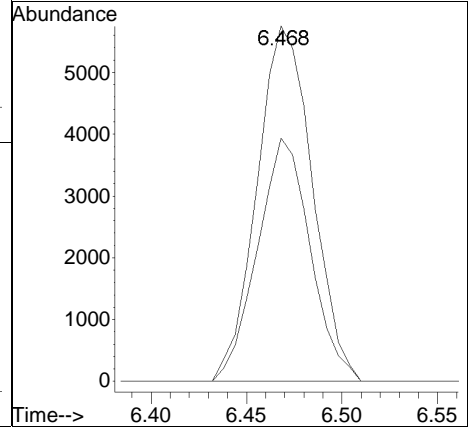
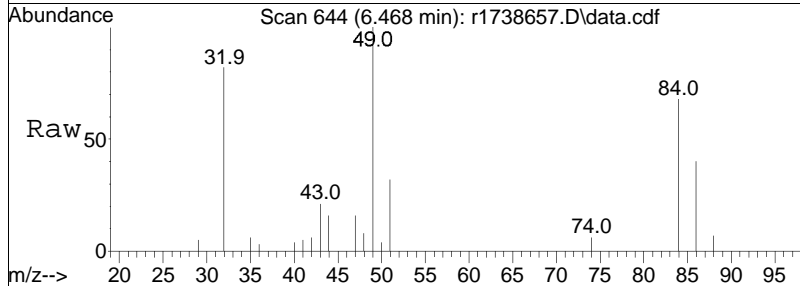
Tgt Ion	Resp	Lower	Upper
59	100		
41	44.0	17.5	26.3#
43	21.4	8.7	13.1#

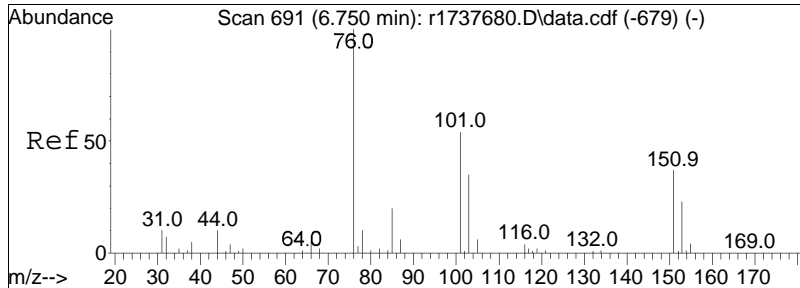




#28
 methylene chloride
 Concen: 0.49 ppbV
 RT: 6.468 min Scan# 644
 Delta R.T. 0.018 min
 Lab File: r1738657.D
 Acq: 15 Feb 2024 10:57 PM

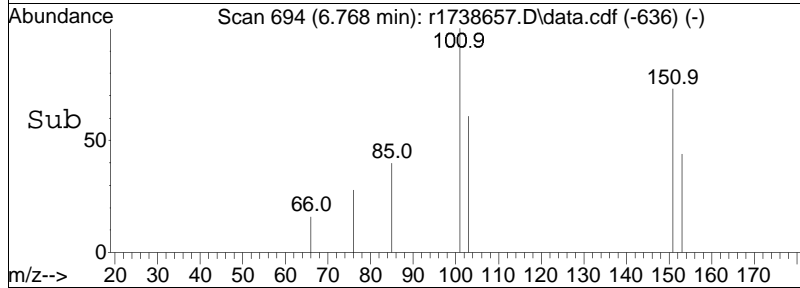
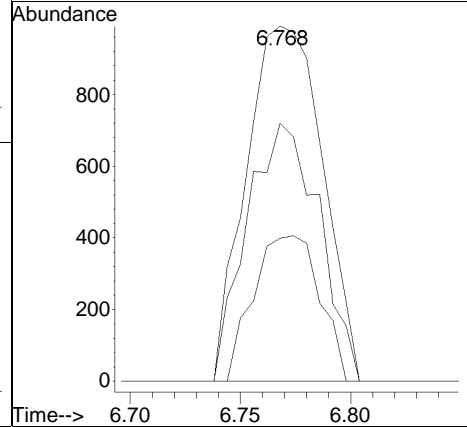
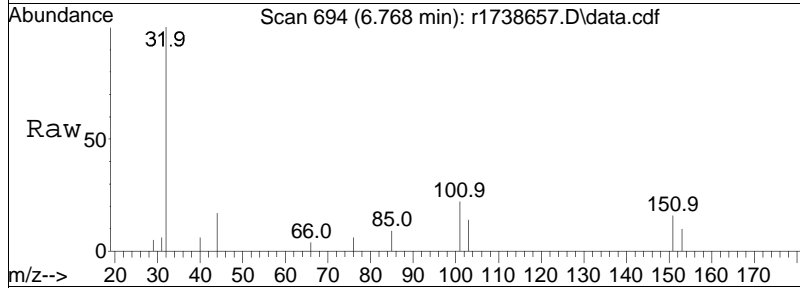
Tgt Ion:	Resp:		
Ion	Ratio	Lower	Upper
49	100		
84	68.5	56.7	85.1

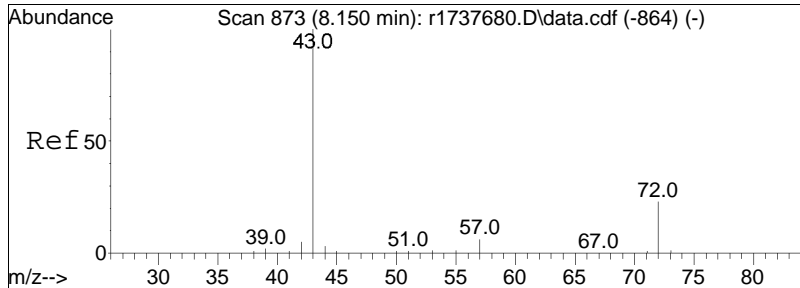




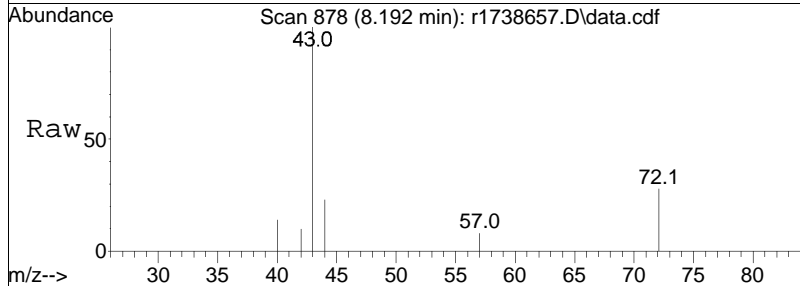
#31
 Freon 113
 Concen: 0.07 ppbV
 RT: 6.768 min Scan# 694
 Delta R.T. 0.018 min
 Lab File: r1738657.D
 Acq: 15 Feb 2024 10:57 PM

Tgt Ion	Ratio	Lower	Upper
101	100		
85	40.3	30.5	45.7
151	72.7	56.0	84.0

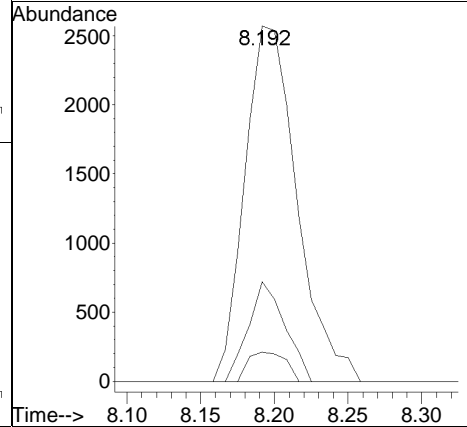
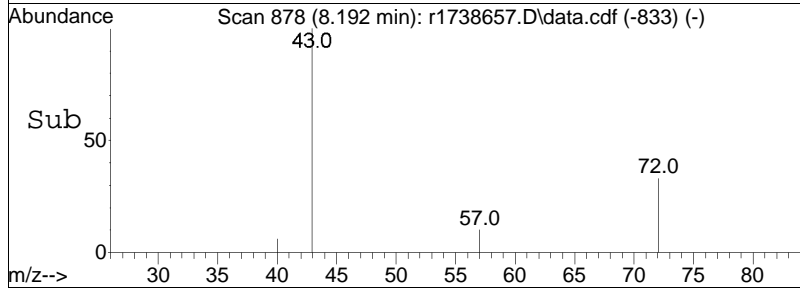


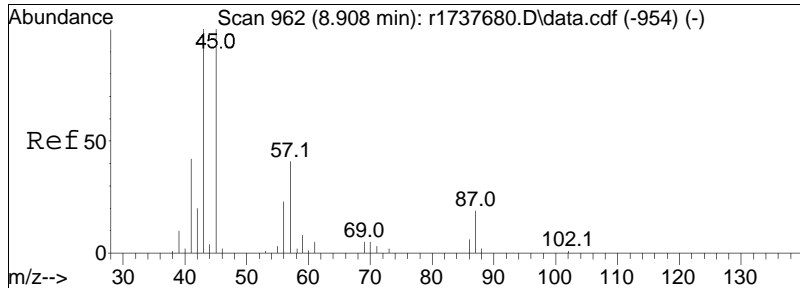


#36
 2-butanone
 Concen: 0.15 ppbV
 RT: 8.192 min Scan# 878
 Delta R.T. 0.042 min
 Lab File: r1738657.D
 Acq: 15 Feb 2024 10:57 PM



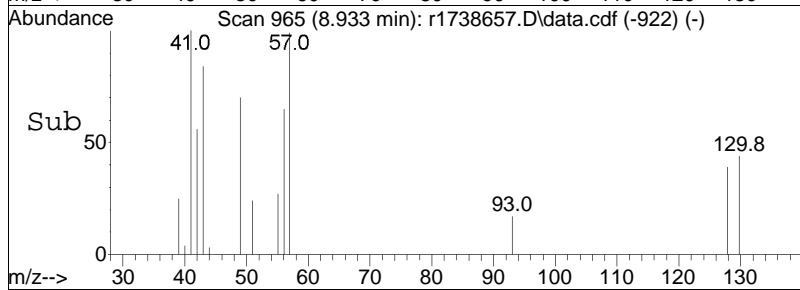
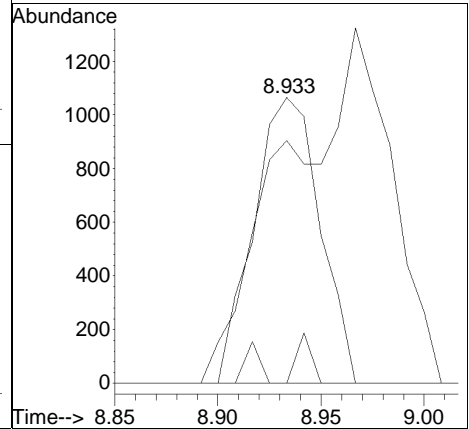
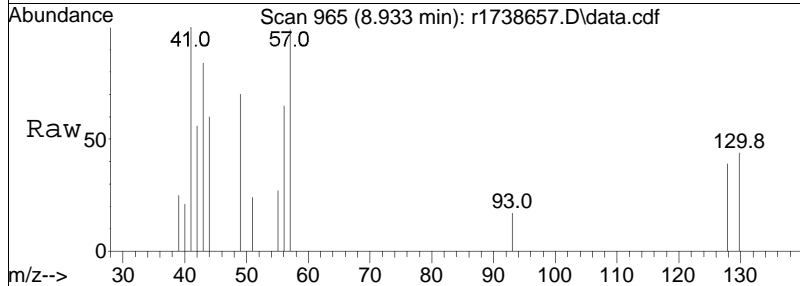
Tgt Ion	Resp	Lower	Upper
43	6341		
72	28.1	18.3	27.5#
57	8.3	5.0	7.6#

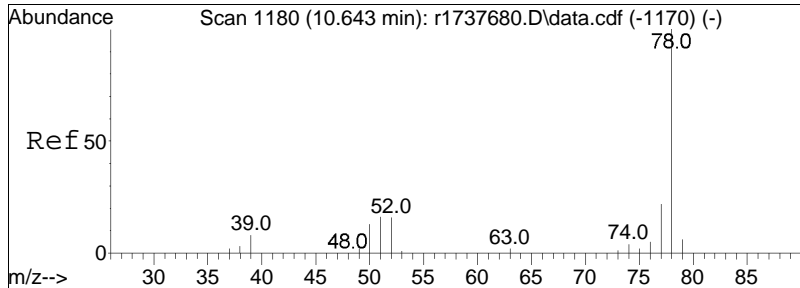




#44
 hexane
 Concen: 0.08 ppbV
 RT: 8.933 min Scan# 965
 Delta R.T. 0.025 min
 Lab File: r1738657.D
 Acq: 15 Feb 2024 10:57 PM

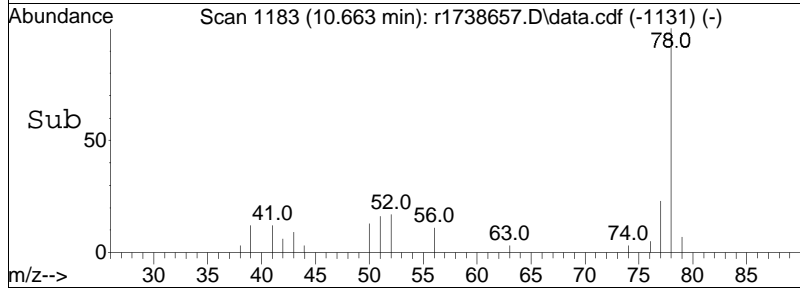
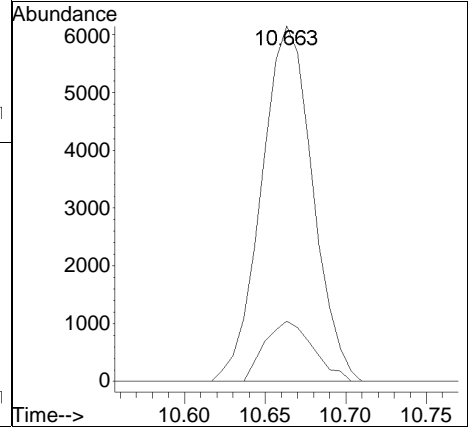
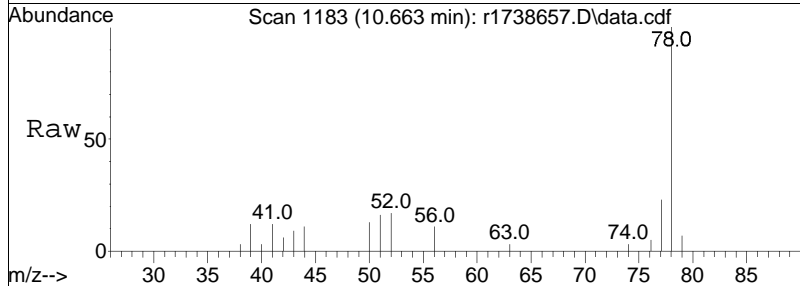
Tgt Ion:	Resp:		
Ion	Ratio	Lower	Upper
57	100		
43	85.0	197.0	295.6#
86	0.0	12.6	19.0#

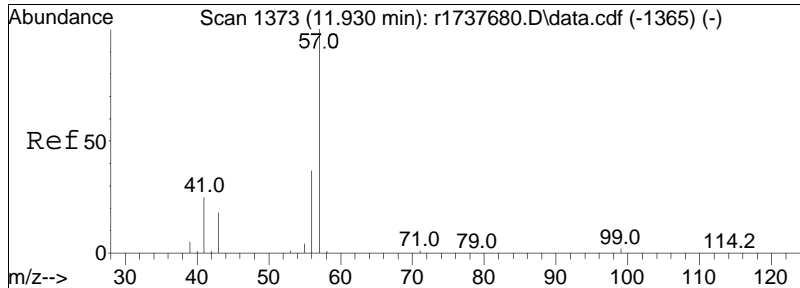




#50
 benzene
 Concen: 0.20 ppbV
 RT: 10.663 min Scan# 1183
 Delta R.T. 0.020 min
 Lab File: r1738657.D
 Acq: 15 Feb 2024 10:57 PM

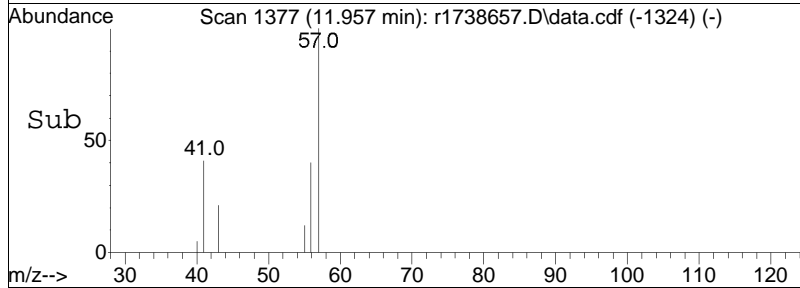
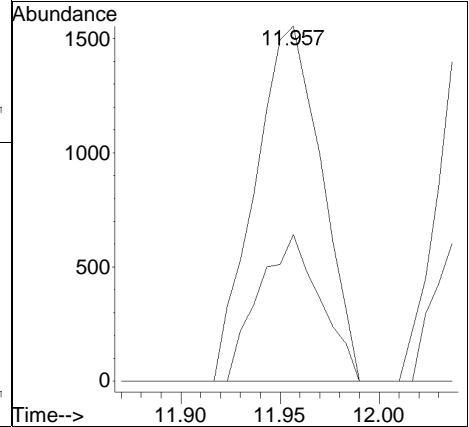
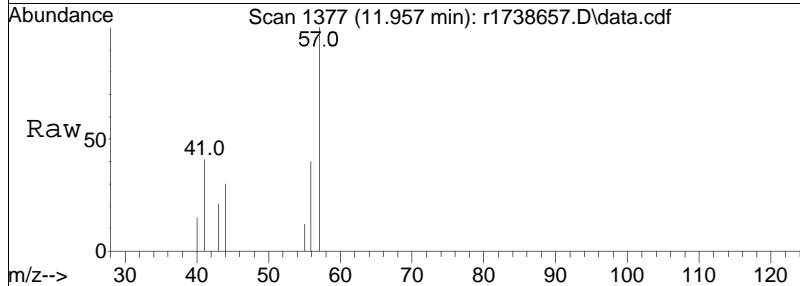
Tgt Ion:	78	52	Resp:	13611
Ion Ratio	100	17.0	Lower	Upper
			12.7	19.1

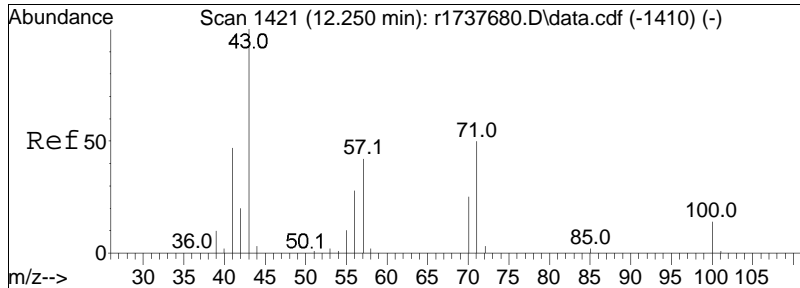




#60
 2,2,4-trimethylpentane
 Concen: 0.04 ppbV
 RT: 11.957 min Scan# 1377
 Delta R.T. 0.027 min
 Lab File: r1738657.D
 Acq: 15 Feb 2024 10:57 PM

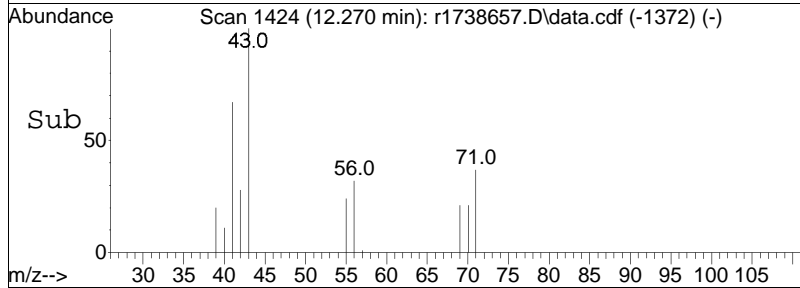
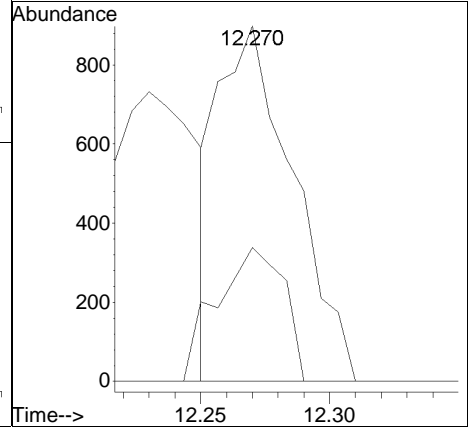
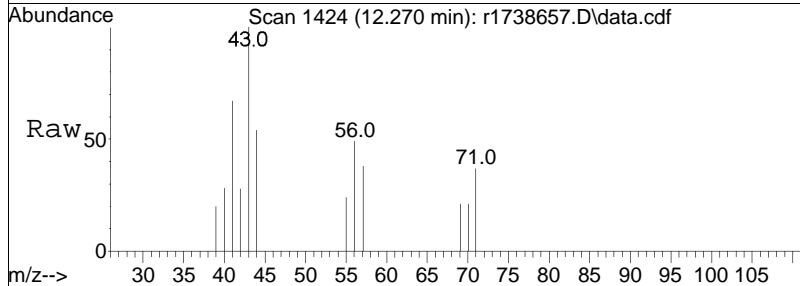
Tgt Ion	Resp	Lower	Upper
57	100		
99	0.0	4.0	6.0#
41	41.3	19.8	29.6#

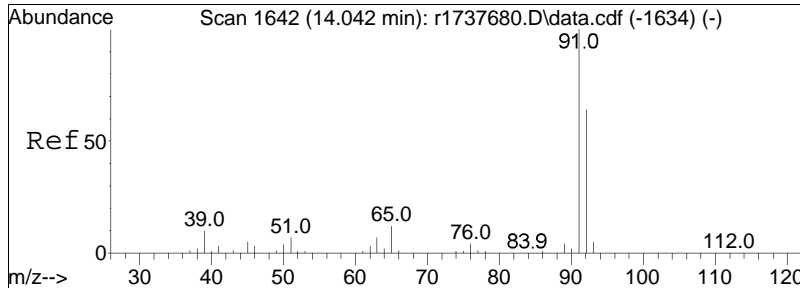




#62
 heptane
 Concen: 0.04 ppbV
 RT: 12.270 min Scan# 1424
 Delta R.T. 0.020 min
 Lab File: r1738657.D
 Acq: 15 Feb 2024 10:57 PM

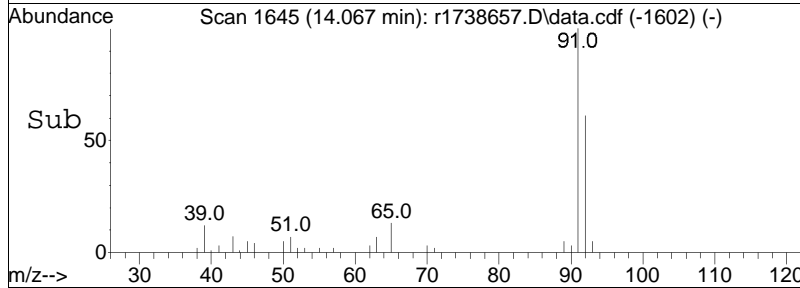
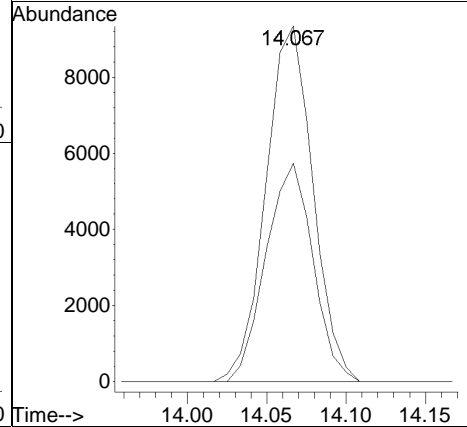
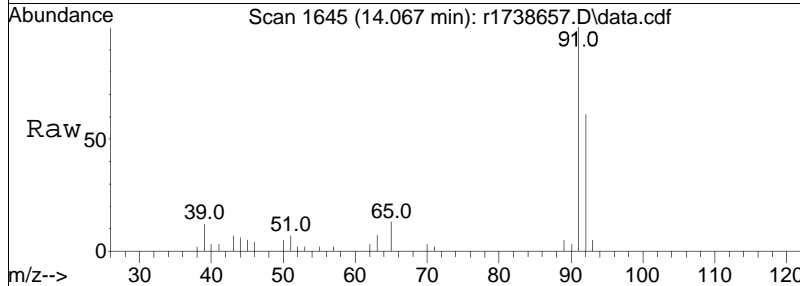
Tgt Ion	Ratio	Lower	Upper
43	100		
57	37.6	33.5	50.3
100	0.0	11.3	16.9#

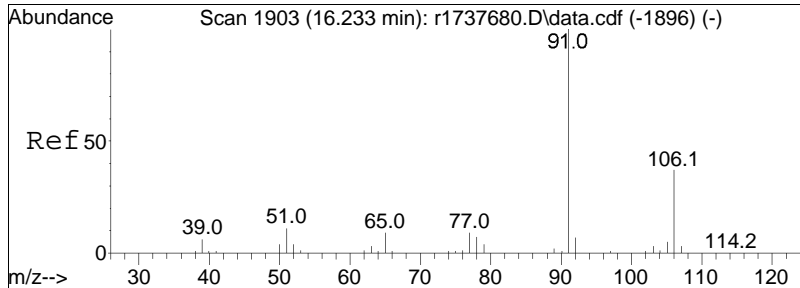




#68
 toluene
 Concen: 0.26 ppbV
 RT: 14.067 min Scan# 1645
 Delta R.T. 0.025 min
 Lab File: r1738657.D
 Acq: 15 Feb 2024 10:57 PM

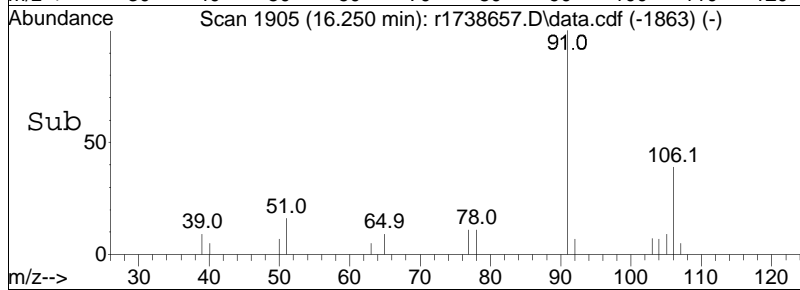
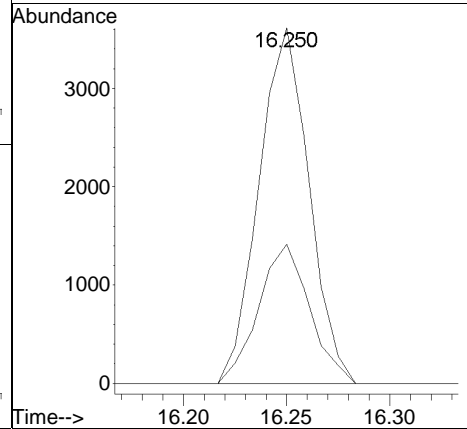
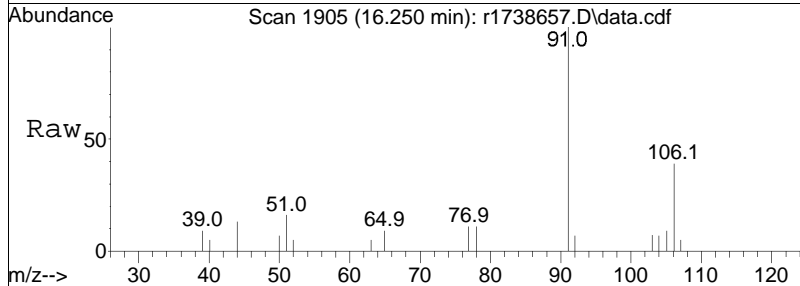
Tgt Ion	Resp	Lower	Upper
91	100		
92	61.4	51.2	76.8

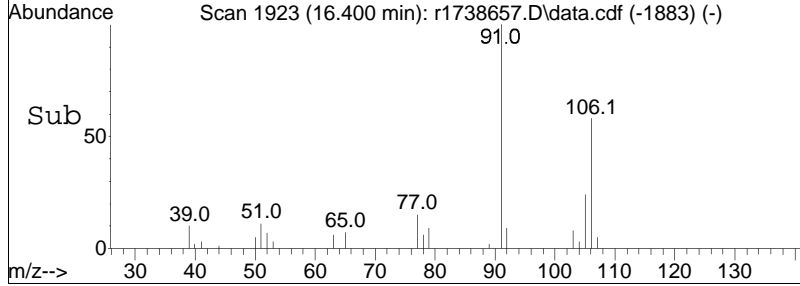
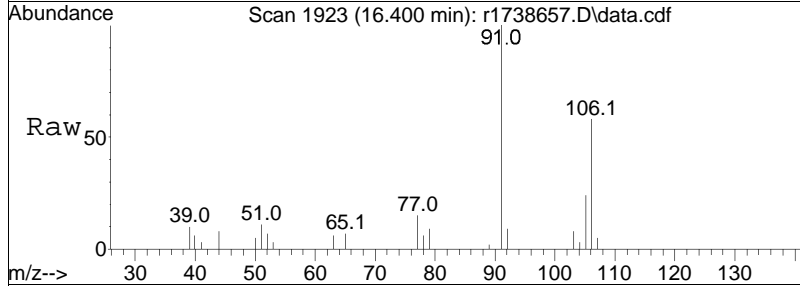
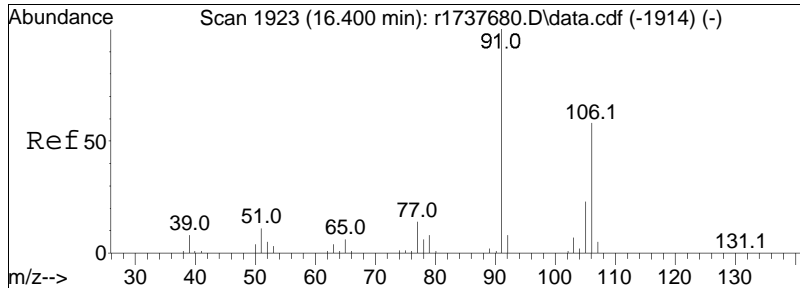




#81
 ethylbenzene
 Concen: 0.07 ppbV
 RT: 16.250 min Scan# 1905
 Delta R.T. 0.017 min
 Lab File: r1738657.D
 Acq: 15 Feb 2024 10:57 PM

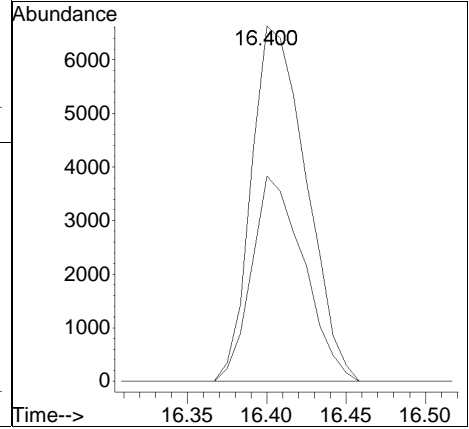
Tgt Ion	Resp	Lower	Upper
91	100		
106	39.2	29.4	44.0

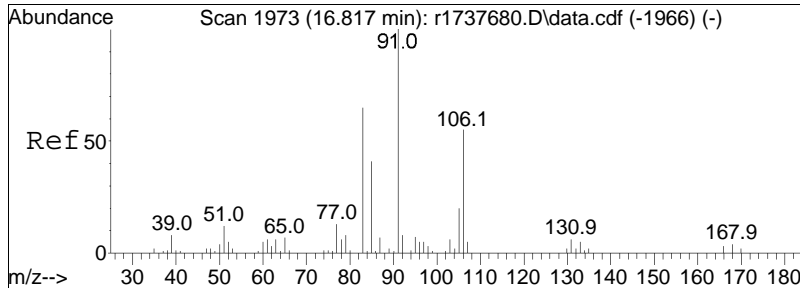




#83
 m+p-xylene
 Concen: 0.22 ppbV
 RT: 16.400 min Scan# 1923
 Delta R.T. 0.000 min
 Lab File: r1738657.D
 Acq: 15 Feb 2024 10:57 PM

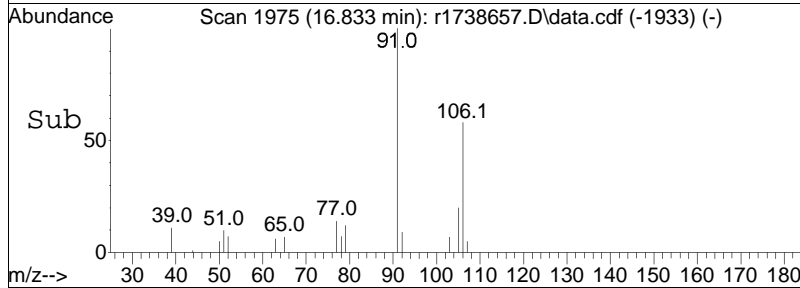
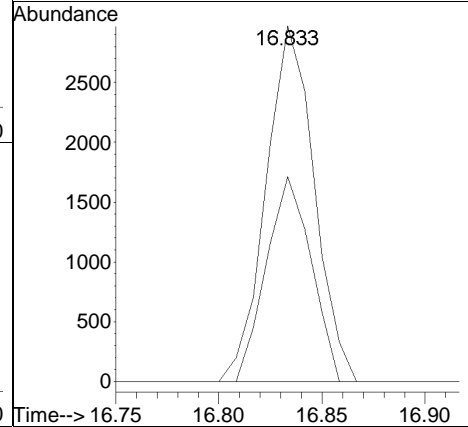
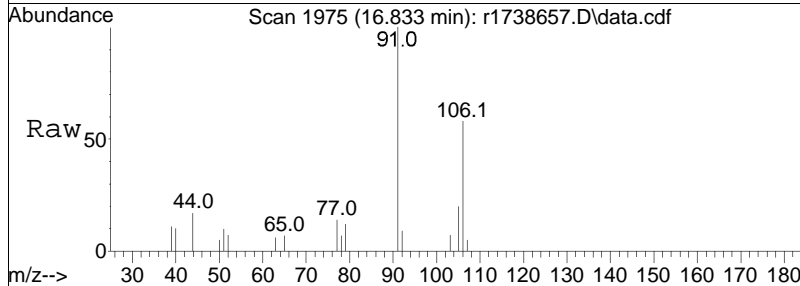
Tgt Ion:	91	Resp:	15909
Ion Ratio	Lower	Upper	
91	100		
106	57.8	46.1	69.1

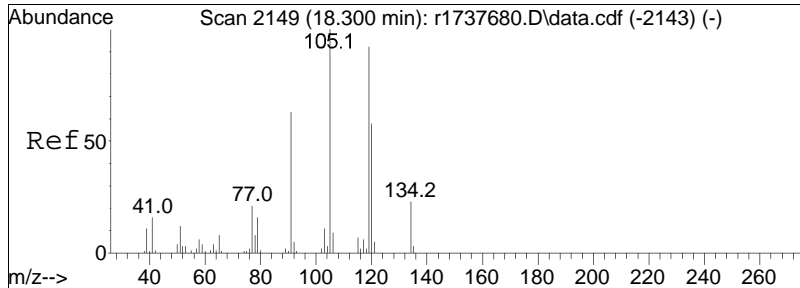




#87
 o-xylene
 Concen: 0.07 ppbV
 RT: 16.833 min Scan# 1975
 Delta R.T. 0.017 min
 Lab File: r1738657.D
 Acq: 15 Feb 2024 10:57 PM

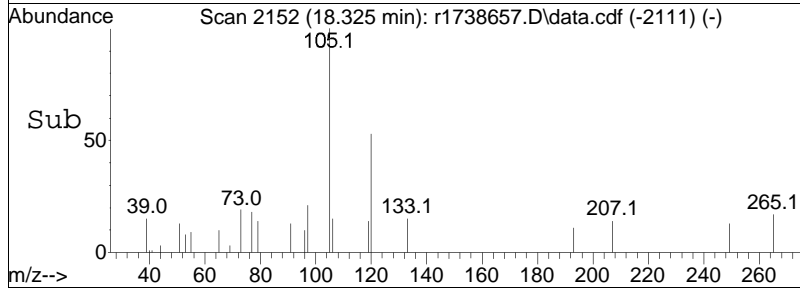
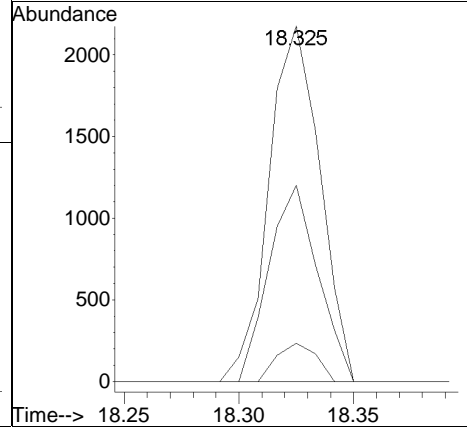
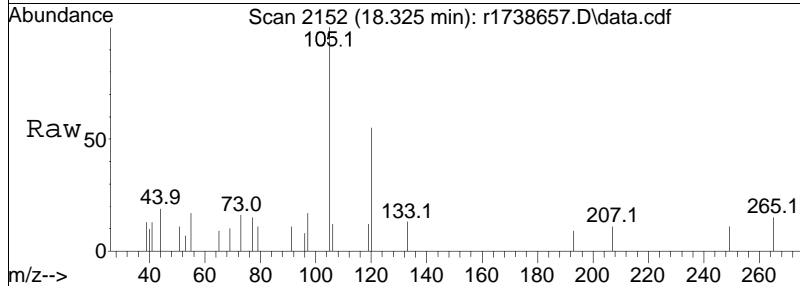
Tgt Ion: 91 Resp: 4837
 Ion Ratio Lower Upper
 91 100
 106 57.6 44.2 66.4





#99
 1,2,4-trimethylbenzene
 Concen: 0.04 ppbV
 RT: 18.325 min Scan# 2152
 Delta R.T. 0.025 min
 Lab File: r1738657.D
 Acq: 15 Feb 2024 10:57 PM

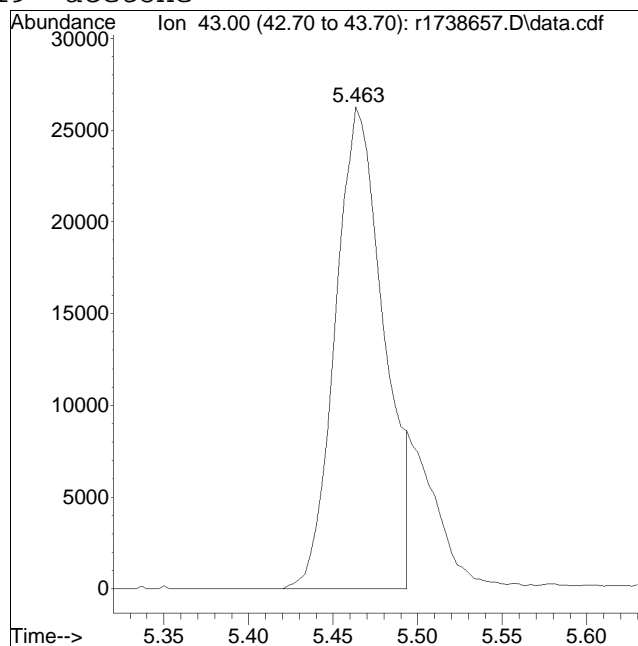
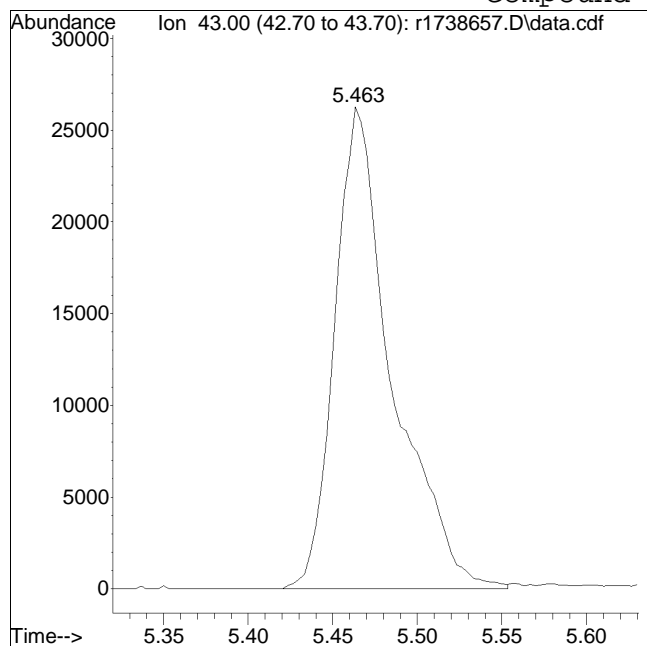
Tgt Ion	Ratio	Lower	Upper
105	100		
120	55.2	46.0	69.0
91	10.7	50.6	76.0#



Manual Integration Report

Data Path : O:\Forensics\Data\Airlab17QMethod : TFS17_240107.M
Data File : r1738657.D Operator : AIRLAB17:JMB
Date Inj'd : 2/15/2020 0:0: 7 Instrument :
Sample : L2407645-03,3,250,250 Quant Date : 2/16/2024 8:05 am

Compound #19: acetone



Original Peak Response = 62120

Manual Peak Response = 52588 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Volatiles Standards Data

Initial Calibration

Initial Calibration Summary

Form 6

Air Volatiles

Client : TRC Environmental Corp
Project Name : K710 IAQ
Instrument ID : AIRLAB17
Calibration dates : 01/07/24 22:14 01/08/24 02:55

Lab Number : L2407645
Project Number : 457205
Ical Ref : ICAL20743

Calibration Files

0.2 =r1737676.D 0.5 =r1737677.D 1.0 =r1737678.D 5.0 =r1737679.D 10 =r1737680.D 20 =r1737681.D
 50 =r1737682.D 100 =r1737683.D

Compound	0.2	0.5	1.0	5.0	10	20	50	100	Avg	%RSD
1) I bromochloromethane	-----ISTD-----									
2) chlorodifluoromethane	0.960	0.913	0.891	0.802	0.826	0.846	0.782	0.731	0.844	8.87
3) propylene		0.692	0.565	0.433	0.423	0.418	0.401	0.368	0.471	24.49
4) propane		0.701	0.688	0.610	0.595	0.622	0.589	0.562	0.624	8.27
5) dichlorodifluoromethane	1.107	0.987	0.995	0.992	0.964	0.927	0.856	0.754	0.948	11.13
6) C chloromethane	0.563	0.530	0.529	0.516	0.513	0.493	0.460	0.424	0.504	8.67
7) Freon-114	1.331	1.233	1.231	1.217	1.182	1.133	1.011	0.895	1.154	12.09
8) C methanol			0.287	0.246	0.246	0.261	0.245	0.232	0.253	7.55
9) C vinyl chloride	0.589	0.550	0.530	0.530	0.528	0.511	0.480	0.462	0.523	7.54
10) C 1,3-butadiene	0.520	0.488	0.471	0.452	0.451	0.439	0.404	0.373	0.450	10.30
11) butane	0.953	0.826	0.814	0.742	0.739	0.755	0.689	0.642	0.770	12.37
12) C acetaldehyde		0.383	0.378	0.361	0.344	0.338	0.303	0.256	0.338	13.32
13) C bromomethane	0.484	0.447	0.441	0.435	0.436	0.423	0.397	0.370	0.429	7.95
14) C chloroethane	0.278	0.252	0.247	0.241	0.240	0.235	0.223	0.215	0.241	7.91
15) ethanol			0.555	0.415	0.439	0.425	0.387	0.347	0.428	16.44
16) dichlorofluoromethane	1.024	0.939	0.918	0.835	0.836	0.865	0.800	0.738	0.869	10.23
17) C vinyl bromide	0.454	0.431	0.419	0.417	0.414	0.412	0.388	0.360	0.412	6.82
18) C acrolein		0.319	0.243	0.235	0.233	0.249	0.236	0.226	0.249	12.72
19) acetone	0.763	0.691	0.684	0.580	0.576	0.579	0.527	0.470	0.609	15.83
20) C acetonitrile	0.495	0.461	0.438	0.396	0.404	0.427	0.401	0.378	0.425	9.08
21) trichlorofluoromethane	0.830	0.780	0.777	0.763	0.761	0.747	0.692	0.650	0.750	7.42
22) isopropyl alcohol	0.896	0.826	0.807	0.794	0.799	0.803	0.736	0.668	0.791	8.38
23) C acrylonitrile	0.559	0.488	0.465	0.429	0.440	0.463	0.436	0.414	0.462	9.92
24) pentane	0.983	1.002	0.969	0.874	0.869	0.916	0.843	0.824	0.910	7.45
25) ethyl ether	1.071	0.985	0.951	0.876	0.870	0.937	0.982	0.952	0.953	6.75
26) C 1,1-dichloroethene	0.756	0.688	0.687	0.686	0.680	0.681	0.632	0.602	0.676	6.66
27) tertiary butyl alcohol		0.985	0.965	0.899	0.901	0.940	0.895	0.860	0.921	4.79
28) C methylene chloride		0.681	0.673	0.642	0.636	0.739	0.682	0.640	0.670	5.41
29) C 3-chloropropene	0.882	0.812	0.745	0.737	0.747	0.743	0.688	0.636	0.749	9.89
30) C carbon disulfide	1.832	1.689	1.701	1.707	1.736	1.723	1.564	1.396	1.668	7.93
31) Freon 113	1.103	0.999	1.002	1.007	0.990	0.968	0.887	0.815	0.971	8.92
32) trans-1,2-dichloroethene	0.751	0.739	0.724	0.710	0.715	0.710	0.660	0.621	0.704	6.09
33) C 1,1-dichloroethane	0.986	0.924	0.910	0.905	0.905	0.888	0.825	0.766	0.889	7.47
34) C MTBE	1.456	1.376	1.347	1.326	1.321	1.316	1.234	1.130	1.313	7.36
35) C vinyl acetate			1.286	1.208	1.236	1.265	1.178	1.077	1.208	6.21
36) C 2-butanone		1.293	1.295	1.227	1.241	1.231	1.213	1.057	1.222	6.52



Initial Calibration Summary

Form 6

Air Volatiles

Client : TRC Environmental Corp
Project Name : K710 IAQ
Instrument ID : AIRLAB17
Calibration dates : 01/07/24 22:14 01/08/24 02:55

Lab Number : L2407645
Project Number : 457205
Ical Ref : ICAL20743

Calibration Files

0.2 =r1737676.D 0.5 =r1737677.D 1.0 =r1737678.D 5.0 =r1737679.D 10 =r1737680.D 20 =r1737681.D
 50 =r1737682.D 100 =r1737683.D

Compound	0.2	0.5	1.0	5.0	10	20	50	100	Avg	%RSD
37) cis-1,2-dichloroethene	0.727	0.676	0.681	0.675	0.675	0.664	0.616	0.582	0.662	6.68
38) Ethyl Acetate	0.172	0.170	0.174	0.172	0.172	0.172	0.167	0.160	0.170	2.61
39) C chloroform	1.061	0.974	0.964	0.961	0.950	0.935	0.867	0.806	0.940	8.07
40) Tetrahydrofuran	0.729	0.699	0.713	0.703	0.713	0.709	0.665	0.616	0.693	5.20
41) 2,2-dichloropropane	0.826	0.765	0.756	0.720	0.721	0.752	0.699	0.651	0.736	7.01
42) C 1,2-dichloroethane	0.655	0.584	0.548	0.527	0.528	0.514	0.478	0.450	0.536	11.81
43) I 1,4-difluorobenzene	-----ISTD-----									
44) C hexane	0.375	0.344	0.336	0.327	0.325	0.329	0.312	0.299	0.331	6.79
45) diisopropyl ether	0.194	0.182	0.173	0.165	0.166	0.175	0.170	0.167	0.174	5.63
46) tert-butyl ethyl ether	0.626	0.592	0.596	0.558	0.558	0.592	0.567	0.554	0.580	4.39
47) s 1,2-dichloroethane-D4	0.311	0.308	0.312	0.309	0.304	0.300	0.298	0.298	0.305	1.89
48) C 1,1,1-trichloroethane	0.315	0.283	0.283	0.284	0.286	0.284	0.293	0.277	0.288	4.09
49) 1,1-dichloropropene	0.353	0.317	0.322	0.302	0.304	0.320	0.300	0.282	0.312	6.71
50) C benzene	0.827	0.760	0.759	0.750	0.751	0.737	0.693	0.651	0.741	6.95
51) thiophene	0.605	0.570	0.551	0.486	0.486	0.559	0.532	0.512	0.538	7.76
52) C carbon tetrachloride	0.283	0.267	0.259	0.272	0.280	0.281	0.269	0.258	0.271	3.54
53) cyclohexane	0.399	0.362	0.355	0.349	0.348	0.352	0.335	0.331	0.354	5.91
54) tert-amyl methyl ether	0.638	0.604	0.591	0.564	0.567	0.600	0.566	0.540	0.584	5.24
55) dibromomethane	0.221	0.208	0.199	0.190	0.191	0.202	0.190	0.184	0.198	6.04
56) C 1,2-dichloropropane	0.238	0.229	0.230	0.232	0.233	0.231	0.218	0.210	0.228	3.91
57) bromodichloromethane	0.365	0.334	0.334	0.348	0.356	0.361	0.348	0.335	0.348	3.56
58) C 1,4-dioxane	0.149	0.140	0.139	0.143	0.144	0.147	0.141	0.139	0.143	2.61
59) C trichloroethene	0.297	0.286	0.283	0.287	0.286	0.284	0.271	0.263	0.282	3.70
60) C 2,2,4-trimethylpentane	1.310	1.222	1.206	1.042	1.041	1.041	0.985	0.943	1.099	11.83
61) methyl methacrylate		0.243	0.243	0.247	0.253	0.258	0.249	0.238	0.247	2.76
62) heptane	0.513	0.480	0.476	0.474	0.472	0.471	0.436	0.404	0.466	6.96
63) C cis-1,3-dichloropropene	0.388	0.362	0.364	0.379	0.384	0.382	0.365	0.345	0.371	3.95
64) C 4-methyl-2-pentanone		0.578	0.554	0.565	0.570	0.571	0.533	0.496	0.552	5.23
65) trans-1,3-dichloropropene	0.285	0.278	0.272	0.298	0.305	0.306	0.294	0.283	0.290	4.28
66) C 1,1,2-trichloroethane	0.265	0.264	0.257	0.259	0.259	0.254	0.238	0.229	0.253	5.08
67) I chlorobenzene-D5	-----ISTD-----									
68) C toluene	6.095	5.683	5.705	5.569	5.598	5.545	5.080	4.706	5.498	7.69
69) s toluene-D8	7.594	7.365	7.714	7.475	7.396	7.424	7.240	7.105	7.414	2.57
70) 2-methylthiophene	6.163	5.693	5.765	4.877	4.896	5.649	5.120	4.681	5.356	9.90
71) 1,3-dichloropropane	3.042	2.844	2.882	2.707	2.696	2.864	2.644	2.405	2.760	6.97
72) 2-hexanone	3.334	3.301	3.441	3.787	3.854	3.958	3.611	3.241	3.566	7.74



Initial Calibration Summary

Form 6

Air Volatiles

Client : TRC Environmental Corp
Project Name : K710 IAQ
Instrument ID : AIRLAB17
Calibration dates : 01/07/24 22:14 01/08/24 02:55

Lab Number : L2407645
Project Number : 457205
Ical Ref : ICAL20743

Calibration Files

0.2 =r1737676.D 0.5 =r1737677.D 1.0 =r1737678.D 5.0 =r1737679.D 10 =r1737680.D 20 =r1737681.D
 50 =r1737682.D 100 =r1737683.D

Compound	0.2	0.5	1.0	5.0	10	20	50	100	Avg	%RSD
73) 3-methylthiophene	6.028	5.564	5.642	4.809	4.789	5.570	5.049	4.621	5.259	9.65
74) dibromochloromethane	2.158	2.137	2.249	2.350	2.462	2.562	2.387	2.264	2.321	6.34
75) C 1,2-dibromoethane	3.014	2.857	2.900	2.936	2.918	2.903	2.653	2.425	2.826	6.81
76) butyl acetate		0.590	0.618	0.633	0.651	0.694	0.651	0.606	0.635	5.42
77) octane	2.232	2.079	2.070	1.909	1.907	2.042	1.922	1.806	1.996	6.76
78) C tetrachloroethene	2.453	2.269	2.226	2.222	2.233	2.215	2.054	1.889	2.195	7.48
79) 1,1,1,2-tetrachloroethane	1.970	1.895	1.943	1.867	1.895	2.031	1.888	1.759	1.906	4.20
80) C chlorobenzene	5.323	4.891	4.868	4.852	4.831	4.765	4.366	3.881	4.722	9.04
81) C ethylbenzene	7.405	7.057	7.090	7.142	7.197	7.061	6.510	5.951	6.927	6.76
82) 2-ethylthiophene	6.479	6.023	6.278	5.453	5.515	6.298	5.648	5.123	5.852	8.29
83) C m+p-xylene	6.077	5.544	5.714	5.642	5.696	5.551	5.068	4.613	5.488	8.19
84) C bromoform	1.544	1.506	1.606	1.827	1.950	2.068	1.977	1.879	1.794	11.96
85) C styrene	4.860	4.631	4.680	4.846	4.954	4.838	4.409	3.935	4.644	7.19
86) C 1,1,2,2-tetrachloroethane	4.430	4.256	4.279	4.265	4.275	4.239	3.916	3.446	4.138	7.60
87) C o-xylene	6.004	5.639	5.762	5.678	5.683	5.565	5.068	4.540	5.492	8.48
88) 1,2,3-trichloropropane	3.638	3.461	3.464	3.194	3.198	3.396	3.166	2.894	3.301	7.06
89) nonane	5.953	5.674	5.693	5.243	5.202	5.356	4.726	4.066	5.239	11.54
90) s bromofluorobenzene	4.465	4.405	4.746	4.618	4.573	4.626	4.422	4.467	4.540	2.63
91) C isopropylbenzene	8.398	7.778	7.897	7.290	7.167	7.540	6.770	5.940	7.347	10.26
92) bromobenzene	4.724	4.446	4.502	4.135	4.125	4.376	4.046	3.649	4.250	7.82
93) 2-chlorotoluene	2.323	2.149	2.251	2.067	2.088	2.215	2.079	1.945	2.139	5.62
94) n-propylbenzene	2.485	2.362	2.431	2.237	2.252	2.424	2.310	2.157	2.332	4.84
95) 4-chlorotoluene	2.165	2.055	2.052	1.995	2.023	2.133	2.032	1.911	2.046	3.85
96) 4-ethyl toluene	8.309	7.851	8.037	7.791	7.719	7.724	6.997	6.139	7.571	9.09
97) 1,3,5-trimethylbenzene	7.379	6.716	6.961	6.848	6.703	6.533	5.878	5.213	6.529	10.41
98) tert-butylbenzene	7.354	6.842	6.966	6.389	6.384	6.646	6.048	5.150	6.472	10.33
99) 1,2,4-trimethylbenzene	7.235	6.906	6.906	6.793	6.770	6.527	5.837	5.004	6.497	11.20
100) decane	5.412	5.109	5.185	4.800	4.807	5.073	4.740	4.349	4.934	6.66
101) C Benzyl Chloride	2.903	2.963	3.171	3.499	3.834	4.269	4.245	4.041	3.616	15.50
102) 1,3-dichlorobenzene	4.141	3.825	3.987	4.000	4.100	4.026	3.752	3.422	3.907	6.02
103) C 1,4-dichlorobenzene	3.780	3.706	3.836	3.940	4.071	3.952	3.737	3.412	3.804	5.27
104) sec-butylbenzene	1.039	0.996	1.012	0.907	0.898	0.933	0.849	0.733	0.921	10.81
105) 1,2,3-trimethylbenzene	6.846	6.332	6.483	6.182	6.103	6.012	5.418	4.627	6.000	11.49
106) p-isopropyltoluene	9.067	8.440	8.470	7.656	7.689	7.974	7.241	6.128	7.833	11.44
107) 1,2-dichlorobenzene	4.029	3.741	3.822	3.729	3.857	3.802	3.529	3.286	3.724	6.06
108) n-butylbenzene	7.179	6.990	7.154	6.525	6.532	6.933	6.494	5.932	6.717	6.32



Initial Calibration Summary

Form 6

Air Volatiles

Client : TRC Environmental Corp
Project Name : K710 IAQ
Instrument ID : AIRLAB17
Calibration dates : 01/07/24 22:14 01/08/24 02:55

Lab Number : L2407645
Project Number : 457205
Ical Ref : ICAL20743

Calibration Files

0.2 =r1737676.D 0.5 =r1737677.D 1.0 =r1737678.D 5.0 =r1737679.D 10 =r1737680.D 20 =r1737681.D
 50 =r1737682.D 100 =r1737683.D

Compound	0.2	0.5	1.0	5.0	10	20	50	100	Avg	%RSD
109) indan	6.772	6.557	6.667	6.329	6.276	6.357	5.905	5.324	6.273	7.45
110) indene	4.256	4.171	4.290	4.094	4.166	4.333	4.139	3.850	4.162	3.60
111) C 1,2-dibromo-3-chloropr...	1.372	1.421	1.538	1.464	1.544	1.729	1.703	1.557	1.541	8.17
112) undecane	5.546	5.368	5.544	5.133	5.151	5.477	5.143	4.777	5.267	5.06
113) 1,2,4,5-tetramethylben...	0.685	0.653	0.657	0.634	0.654	0.663	0.649	0.632	0.653	2.55
114) dodecane	4.878	5.061	5.229	4.908	5.126	5.401	5.161	4.753	5.065	4.15
115) C 1,2,4-trichlorobenzene	1.964	2.163	2.331	2.479	2.743	2.662	2.751	2.657	2.469	11.81
116) naphthalene	6.483	6.456	7.164	6.088	6.591	7.391	7.578	7.123	6.859	7.66
117) 1,2,3-trichlorobenzene	1.934	2.071	2.176	1.849	2.077	2.307	2.444	2.341	2.150	9.57
118) benzothiophene	1.009	1.158	1.350	1.163	1.358	1.463	1.516	1.232	1.281	13.33
119) C hexachlorobutadiene	2.370	2.418	2.481	2.466	2.551	2.361	2.270	2.131	2.381	5.56
120) 2-methylnaphthalene			1.837	1.564	2.066	2.392	2.862	2.894	2.269	24.00
121) 1-methylnaphthalene			2.612	2.391	2.985	2.928	3.417	3.419	2.959	14.07



Response Factor Report

Method Path : O:\Forensics\Data\Airlab17\2024\01\0107T_I\
 Method File : TFS17_240107.M
 Title : TO-14A/TO-15 SIM/Full Scan Analysis
 Last Update : Mon Jan 08 15:04:29 2024
 Response Via : Initial Calibration

Calibration Files

0.2 =r1737676.D 0.5 =r1737677.D 1.0 =r1737678.D 5.0 =r1737679.D 10 =r1737680.D 20 =r1737681.D
 50 =r1737682.D 100 =r1737683.D

Compound	0.2	0.5	1.0	5.0	10	20	50	100	Avg	%RSD
1) I bromochloromethane	-----ISTD-----									
2) chlorodifluoro...	0.960	0.913	0.891	0.802	0.826	0.846	0.782	0.731	0.844	8.87
3) propylene	0.692	0.565	0.433	0.423	0.418	0.401	0.368	0.471	24.49	
4) propane	0.701	0.688	0.610	0.595	0.622	0.589	0.562	0.624	8.27	
5) dichlorodifluo...	1.107	0.987	0.995	0.992	0.964	0.927	0.856	0.754	0.948	11.13
6) C chloromethane	0.563	0.530	0.529	0.516	0.513	0.493	0.460	0.424	0.504	8.67
7) Freon-114	1.331	1.233	1.231	1.217	1.182	1.133	1.011	0.895	1.154	12.09
8) C methanol			0.287	0.246	0.246	0.261	0.245	0.232	0.253	7.55
9) C vinyl chloride	0.589	0.550	0.530	0.530	0.528	0.511	0.480	0.462	0.523	7.54
10) C 1,3-butadiene	0.520	0.488	0.471	0.452	0.451	0.439	0.404	0.373	0.450	10.30
11) butane	0.953	0.826	0.814	0.742	0.739	0.755	0.689	0.642	0.770	12.37
12) C acetaldehyde		0.383	0.378	0.361	0.344	0.338	0.303	0.256	0.338	13.32
13) C bromomethane	0.484	0.447	0.441	0.435	0.436	0.423	0.397	0.370	0.429	7.95
14) C chloroethane	0.278	0.252	0.247	0.241	0.240	0.235	0.223	0.215	0.241	7.91
15) ethanol			0.555	0.415	0.439	0.425	0.387	0.347	0.428	16.44
16) dichlorofluoro...	1.024	0.939	0.918	0.835	0.836	0.865	0.800	0.738	0.869	10.23
17) C vinyl bromide	0.454	0.431	0.419	0.417	0.414	0.412	0.388	0.360	0.412	6.82
18) C acrolein		0.319	0.243	0.235	0.233	0.249	0.236	0.226	0.249	12.72
19) acetone	0.763	0.691	0.684	0.580	0.576	0.579	0.527	0.470	0.609	15.83
20) C acetonitrile	0.495	0.461	0.438	0.396	0.404	0.427	0.401	0.378	0.425	9.08
21) trichlorofluor...	0.830	0.780	0.777	0.763	0.761	0.747	0.692	0.650	0.750	7.42
22) isopropyl alcohol	0.896	0.826	0.807	0.794	0.799	0.803	0.736	0.668	0.791	8.38
23) C acrylonitrile	0.559	0.488	0.465	0.429	0.440	0.463	0.436	0.414	0.462	9.92
24) pentane	0.983	1.002	0.969	0.874	0.869	0.916	0.843	0.824	0.910	7.45
25) ethyl ether	1.071	0.985	0.951	0.876	0.870	0.937	0.982	0.952	0.953	6.75
26) C 1,1-dichloroet...	0.756	0.688	0.687	0.686	0.680	0.681	0.632	0.602	0.676	6.66
27) tertiary butyl...		0.985	0.965	0.899	0.901	0.940	0.895	0.860	0.921	4.79
28) C methylene chlo...		0.681	0.673	0.642	0.636	0.739	0.682	0.640	0.670	5.41
29) C 3-chloropropene	0.882	0.812	0.745	0.737	0.747	0.743	0.688	0.636	0.749	9.89
30) C carbon disulfide	1.832	1.689	1.701	1.707	1.736	1.723	1.564	1.396	1.668	7.93
31) Freon 113	1.103	0.999	1.002	1.007	0.990	0.968	0.887	0.815	0.971	8.92

Response Factor Report

Method Path : O:\Forensics\Data\Airlab17\2024\01\0107T_I\
 Method File : TFS17_240107.M
 Title : TO-14A/TO-15 SIM/Full Scan Analysis
 Last Update : Mon Jan 08 15:04:29 2024
 Response Via : Initial Calibration

Calibration Files

0.2 =r1737676.D 0.5 =r1737677.D 1.0 =r1737678.D 5.0 =r1737679.D 10 =r1737680.D 20 =r1737681.D
 50 =r1737682.D 100 =r1737683.D

Compound	0.2	0.5	1.0	5.0	10	20	50	100	Avg	%RSD
32) trans-1,2-dich...	0.751	0.739	0.724	0.710	0.715	0.710	0.660	0.621	0.704	6.09
33) C 1,1-dichloroet...	0.986	0.924	0.910	0.905	0.905	0.888	0.825	0.766	0.889	7.47
34) C MTBE	1.456	1.376	1.347	1.326	1.321	1.316	1.234	1.130	1.313	7.36
35) C vinyl acetate		1.286	1.208	1.236	1.265	1.178	1.077	1.208		6.21
36) C 2-butanone	1.293	1.295	1.227	1.241	1.231	1.213	1.057	1.222		6.52
37) cis-1,2-dichlo...	0.727	0.676	0.681	0.675	0.675	0.664	0.616	0.582	0.662	6.68
38) Ethyl Acetate	0.172	0.170	0.174	0.172	0.172	0.172	0.167	0.160	0.170	2.61
39) C chloroform	1.061	0.974	0.964	0.961	0.950	0.935	0.867	0.806	0.940	8.07
40) Tetrahydrofuran	0.729	0.699	0.713	0.703	0.713	0.709	0.665	0.616	0.693	5.20
41) 2,2-dichloropr...	0.826	0.765	0.756	0.720	0.721	0.752	0.699	0.651	0.736	7.01
42) C 1,2-dichloroet...	0.655	0.584	0.548	0.527	0.528	0.514	0.478	0.450	0.536	11.81
43) I 1,4-difluorobenzene	----- ISTD -----									
44) C hexane	0.375	0.344	0.336	0.327	0.325	0.329	0.312	0.299	0.331	6.79
45) diisopropyl ether	0.194	0.182	0.173	0.165	0.166	0.175	0.170	0.167	0.174	5.63
46) tert-butyl eth...	0.626	0.592	0.596	0.558	0.558	0.592	0.567	0.554	0.580	4.39
47) s 1,2-dichloroet...	0.311	0.308	0.312	0.309	0.304	0.300	0.298	0.298	0.305	1.89
48) C 1,1,1-trichlor...	0.315	0.283	0.283	0.284	0.286	0.284	0.293	0.277	0.288	4.09
49) 1,1-dichloropr...	0.353	0.317	0.322	0.302	0.304	0.320	0.300	0.282	0.312	6.71
50) C benzene	0.827	0.760	0.759	0.750	0.751	0.737	0.693	0.651	0.741	6.95
51) thiophene	0.605	0.570	0.551	0.486	0.486	0.559	0.532	0.512	0.538	7.76
52) C carbon tetrach...	0.283	0.267	0.259	0.272	0.280	0.281	0.269	0.258	0.271	3.54
53) cyclohexane	0.399	0.362	0.355	0.349	0.348	0.352	0.335	0.331	0.354	5.91
54) tert-amyl meth...	0.638	0.604	0.591	0.564	0.567	0.600	0.566	0.540	0.584	5.24
55) dibromomethane	0.221	0.208	0.199	0.190	0.191	0.202	0.190	0.184	0.198	6.04
56) C 1,2-dichloropr...	0.238	0.229	0.230	0.232	0.233	0.231	0.218	0.210	0.228	3.91
57) bromodichlorom...	0.365	0.334	0.334	0.348	0.356	0.361	0.348	0.335	0.348	3.56
58) C 1,4-dioxane	0.149	0.140	0.139	0.143	0.144	0.147	0.141	0.139	0.143	2.61
59) C trichloroethene	0.297	0.286	0.283	0.287	0.286	0.284	0.271	0.263	0.282	3.70
60) C 2,2,4-trimethy...	1.310	1.222	1.206	1.042	1.041	1.041	0.985	0.943	1.099	11.83
61) methyl methacr...		0.243	0.243	0.247	0.253	0.258	0.249	0.238	0.247	2.76
62) heptane	0.513	0.480	0.476	0.474	0.472	0.471	0.436	0.404	0.466	6.96

Response Factor Report

Method Path : O:\Forensics\Data\Airlab17\2024\01\0107T_I\
 Method File : TFS17_240107.M
 Title : TO-14A/TO-15 SIM/Full Scan Analysis
 Last Update : Mon Jan 08 15:04:29 2024
 Response Via : Initial Calibration

Calibration Files

0.2 =r1737676.D 0.5 =r1737677.D 1.0 =r1737678.D 5.0 =r1737679.D 10 =r1737680.D 20 =r1737681.D
 50 =r1737682.D 100 =r1737683.D

Compound	0.2	0.5	1.0	5.0	10	20	50	100	Avg	%RSD
63) C cis-1,3-dichlo...	0.388	0.362	0.364	0.379	0.384	0.382	0.365	0.345	0.371	3.95
64) C 4-methyl-2-pen...		0.578	0.554	0.565	0.570	0.571	0.533	0.496	0.552	5.23
65) trans-1,3-dich...	0.285	0.278	0.272	0.298	0.305	0.306	0.294	0.283	0.290	4.28
66) C 1,1,2-trichlor...	0.265	0.264	0.257	0.259	0.259	0.254	0.238	0.229	0.253	5.08
67) I chlorobenzene-D5	-----ISTD-----									
68) C toluene	6.095	5.683	5.705	5.569	5.598	5.545	5.080	4.706	5.498	7.69
69) s toluene-D8	7.594	7.365	7.714	7.475	7.396	7.424	7.240	7.105	7.414	2.57
70) 2-methylthiophene	6.163	5.693	5.765	4.877	4.896	5.649	5.120	4.681	5.356	9.90
71) 1,3-dichloropr...	3.042	2.844	2.882	2.707	2.696	2.864	2.644	2.405	2.760	6.97
72) 2-hexanone	3.334	3.301	3.441	3.787	3.854	3.958	3.611	3.241	3.566	7.74
73) 3-methylthiophene	6.028	5.564	5.642	4.809	4.789	5.570	5.049	4.621	5.259	9.65
74) dibromochlorom...	2.158	2.137	2.249	2.350	2.462	2.562	2.387	2.264	2.321	6.34
75) C 1,2-dibromoethane	3.014	2.857	2.900	2.936	2.918	2.903	2.653	2.425	2.826	6.81
76) butyl acetate		0.590	0.618	0.633	0.651	0.694	0.651	0.606	0.635	5.42
77) octane	2.232	2.079	2.070	1.909	1.907	2.042	1.922	1.806	1.996	6.76
78) C tetrachloroethene	2.453	2.269	2.226	2.222	2.233	2.215	2.054	1.889	2.195	7.48
79) 1,1,1,2-tetrac...	1.970	1.895	1.943	1.867	1.895	2.031	1.888	1.759	1.906	4.20
80) C chlorobenzene	5.323	4.891	4.868	4.852	4.831	4.765	4.366	3.881	4.722	9.04
81) C ethylbenzene	7.405	7.057	7.090	7.142	7.197	7.061	6.510	5.951	6.927	6.76
82) 2-ethylthiophene	6.479	6.023	6.278	5.453	5.515	6.298	5.648	5.123	5.852	8.29
83) C m+p-xylene	6.077	5.544	5.714	5.642	5.696	5.551	5.068	4.613	5.488	8.19
84) C bromoform	1.544	1.506	1.606	1.827	1.950	2.068	1.977	1.879	1.794	11.96
85) C styrene	4.860	4.631	4.680	4.846	4.954	4.838	4.409	3.935	4.644	7.19
86) C 1,1,2,2-tetrac...	4.430	4.256	4.279	4.265	4.275	4.239	3.916	3.446	4.138	7.60
87) C o-xylene	6.004	5.639	5.762	5.678	5.683	5.565	5.068	4.540	5.492	8.48
88) 1,2,3-trichlor...	3.638	3.461	3.464	3.194	3.198	3.396	3.166	2.894	3.301	7.06
89) nonane	5.953	5.674	5.693	5.243	5.202	5.356	4.726	4.066	5.239	11.54
90) s bromofluoroben...	4.465	4.405	4.746	4.618	4.573	4.626	4.422	4.467	4.540	2.63
91) C isopropylbenzene	8.398	7.778	7.897	7.290	7.167	7.540	6.770	5.940	7.347	10.26
92) bromobenzene	4.724	4.446	4.502	4.135	4.125	4.376	4.046	3.649	4.250	7.82
93) 2-chlorotoluene	2.323	2.149	2.251	2.067	2.088	2.215	2.079	1.945	2.139	5.62

Response Factor Report

Method Path : O:\Forensics\Data\Airlab17\2024\01\0107T_I\
 Method File : TFS17_240107.M
 Title : TO-14A/TO-15 SIM/Full Scan Analysis
 Last Update : Mon Jan 08 15:04:29 2024
 Response Via : Initial Calibration

Calibration Files

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 50 =r1737682.D 100 =r1737683.D

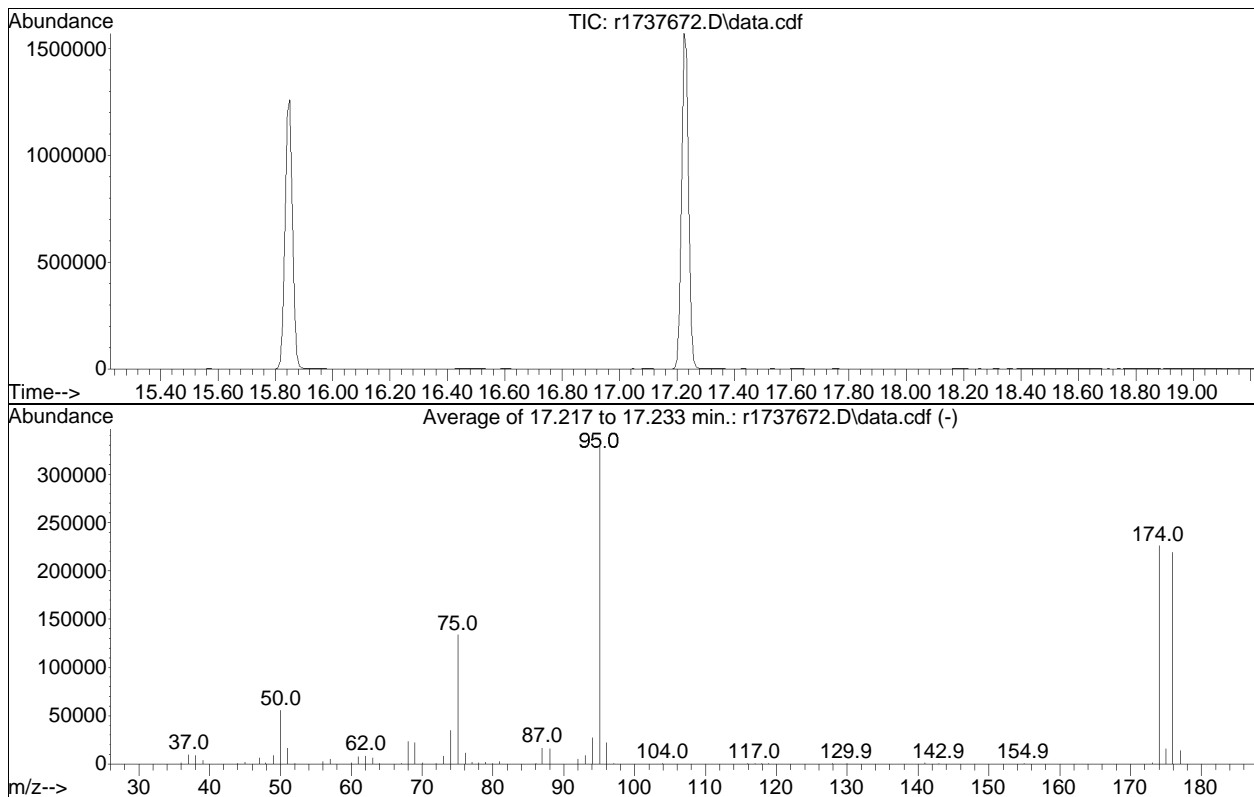
Compound	0.2	0.5	1.0	5.0	10	20	50	100	Avg	%RSD
94) n-propylbenzene	2.485	2.362	2.431	2.237	2.252	2.424	2.310	2.157	2.332	4.84
95) 4-chlorotoluene	2.165	2.055	2.052	1.995	2.023	2.133	2.032	1.911	2.046	3.85
96) 4-ethyl toluene	8.309	7.851	8.037	7.791	7.719	7.724	6.997	6.139	7.571	9.09
97) 1,3,5-trimethy...	7.379	6.716	6.961	6.848	6.703	6.533	5.878	5.213	6.529	10.41
98) tert-butylbenzene	7.354	6.842	6.966	6.389	6.384	6.646	6.048	5.150	6.472	10.33
99) 1,2,4-trimethy...	7.235	6.906	6.906	6.793	6.770	6.527	5.837	5.004	6.497	11.20
100) decane	5.412	5.109	5.185	4.800	4.807	5.073	4.740	4.349	4.934	6.66
101) C Benzyl Chloride	2.903	2.963	3.171	3.499	3.834	4.269	4.245	4.041	3.616	15.50
102) 1,3-dichlorobe...	4.141	3.825	3.987	4.000	4.100	4.026	3.752	3.422	3.907	6.02
103) C 1,4-dichlorobe...	3.780	3.706	3.836	3.940	4.071	3.952	3.737	3.412	3.804	5.27
104) sec-butylbenzene	1.039	0.996	1.012	0.907	0.898	0.933	0.849	0.733	0.921	10.81
105) 1,2,3-trimethy...	6.846	6.332	6.483	6.182	6.103	6.012	5.418	4.627	6.000	11.49
106) p-isopropyltol...	9.067	8.440	8.470	7.656	7.689	7.974	7.241	6.128	7.833	11.44
107) 1,2-dichlorobe...	4.029	3.741	3.822	3.729	3.857	3.802	3.529	3.286	3.724	6.06
108) n-butylbenzene	7.179	6.990	7.154	6.525	6.532	6.933	6.494	5.932	6.717	6.32
109) indan	6.772	6.557	6.667	6.329	6.276	6.357	5.905	5.324	6.273	7.45
110) indene	4.256	4.171	4.290	4.094	4.166	4.333	4.139	3.850	4.162	3.60
111) C 1,2-dibromo-3-...	1.372	1.421	1.538	1.464	1.544	1.729	1.703	1.557	1.541	8.17
112) undecane	5.546	5.368	5.544	5.133	5.151	5.477	5.143	4.777	5.267	5.06
113) 1,2,4,5-tetram...	0.685	0.653	0.657	0.634	0.654	0.663	0.649	0.632	0.653	2.55
114) dodecane	4.878	5.061	5.229	4.908	5.126	5.401	5.161	4.753	5.065	4.15
115) C 1,2,4-trichlor...	1.964	2.163	2.331	2.479	2.743	2.662	2.751	2.657	2.469	11.81
116) naphthalene	6.483	6.456	7.164	6.088	6.591	7.391	7.578	7.123	6.859	7.66
117) 1,2,3-trichlor...	1.934	2.071	2.176	1.849	2.077	2.307	2.444	2.341	2.150	9.57
118) benzothiophene	1.009	1.158	1.350	1.163	1.358	1.463	1.516	1.232	1.281	13.33
119) C hexachlorobuta...	2.370	2.418	2.481	2.466	2.551	2.361	2.270	2.131	2.381	5.56
120) 2-methylnaphth...			1.837	1.564	2.066	2.392	2.862	2.894	2.269	24.00
121) 1-methylnaphth...			2.612	2.391	2.985	2.928	3.417	3.419	2.959	14.07

(#) = Out of Range

Data Path : O:\Forensics\Data\Airlab17\2024\01\0107T_I\
 Data File : r1737672.D
 Acq On : 7 Jan 2024 7:44 PM
 Operator : AIRLAB17:RAY
 Sample : WG1872080-1,3,250,250
 Misc : WG1872080
 ALS Vial : 0 Sample Multiplier: 1

Integration File: rteint.p

Method : O:\Forensics\Data\Airlab17\2024\01\0107T_I\TFS17_240107.M
 Title : TO-14A/TO-15 SIM/Full Scan Analysis
 Last Update : Mon Jan 08 15:04:29 2024



Spectrum Information: Average of 17.217 to 17.233 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	16.8	55512	PASS
75	95	30	66	40.4	133582	PASS
95	95	100	100	100.0	330622	PASS
96	95	5	9	6.7	22066	PASS
173	174	0.00	2	0.6	1325	PASS
174	95	50	120	68.5	226367	PASS
175	174	4	9	7.0	15800	PASS
176	174	93	101	96.7	218996	PASS
177	176	5	9	6.5	14291	PASS

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab17\2024\01\0107T_I\
 Data File : r1737676.D
 Acq On : 7 Jan 2024 10:14 PM
 Operator : AIRLAB17:RAY
 Sample : ITO15-SIMSTD0.2
 Misc : WG1872080
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jan 08 14:48:17 2024
 Quant Method : O:\Forensics\Data\Airlab17\2024\01\0107T_I\TFS17_240107.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Mon Jan 08 14:48:09 2024
 Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab17\2024\01\0107T_I\r1737680.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	8.842	49	410424	10.000	ppbV	0.00
Standard Area = 426000			Recovery =	96.34%		
43) 1,4-difluorobenzene	11.077	114	1091972	10.000	ppbV	0.00
Standard Area = 1124227			Recovery =	97.13%		
67) chlorobenzene-D5	15.842	54	148519	10.000	ppbV	0.00
Standard Area = 154777			Recovery =	95.96%		
System Monitoring Compounds						
47) 1,2-dichloroethane-D4	9.708	65	339963	10.242	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	102.42%		
69) toluene-D8	13.933	98	1127890	10.268	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	102.68%		
90) bromofluorobenzene	17.217	95	663170	9.765	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	97.65%		
Target Compounds						
2) chlorodifluoromethane	3.772	51	7883	0.233	ppbV	99
3) propylene	3.802	41	8523M6	0.491	ppbV	
4) propane	3.826	29	7121	0.292	ppbV	97
5) dichlorodifluoromethane	3.868	85	9087	0.230	ppbV	99
6) chloromethane	4.024	50	4620	0.220	ppbV	97
7) Freon-114	4.126	85	10927	0.225	ppbV	99
8) methanol	4.180	31	14077	1.394	ppbV #	38
9) vinyl chloride	4.240	62	4834	0.223	ppbV	92
10) 1,3-butadiene	4.378	54	4269	0.230	ppbV	90
11) butane	4.432	43	7823	0.258	ppbV #	90
12) acetaldehyde	4.144	29	18030	1.277	ppbV #	75
13) bromomethane	4.642	94	3975	0.222	ppbV	99
14) chloroethane	4.822	64	2282	0.231	ppbV	90
15) ethanol	4.942	31	29001	1.609	ppbV	98
16) dichlorofluoromethane	4.930	67	8402	0.245	ppbV	95
17) vinyl bromide	5.187	106	3728	0.219	ppbV	94
18) acrolein	5.310	56	2565	0.268	ppbV #	31
19) acetone	5.453	43	31327	1.324	ppbV #	97
20) acetonitrile	5.170	41	4062	0.245	ppbV #	78
21) trichlorofluoromethane	5.637	101	6814	0.218	ppbV	97
22) isopropyl alcohol	5.717	45	18392	0.561	ppbV	98
23) acrylonitrile	5.950	53	4590	0.254	ppbV	88
24) pentane	6.023	43	8068	0.226	ppbV #	94

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab17\2024\01\0107T_I\
 Data File : r1737676.D
 Acq On : 7 Jan 2024 10:14 PM
 Operator : AIRLAB17:RAY
 Sample : ITO15-SIMSTD0.2
 Misc : WG1872080
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jan 08 14:48:17 2024
 Quant Method : O:\Forensics\Data\Airlab17\2024\01\0107T_I\TFS17_240107.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Mon Jan 08 14:48:09 2024
 Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab17\2024\01\0107T_I\r1737680.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) ethyl ether	6.057	31	8793	0.246	ppbV	98
26) 1,1-dichloroethene	6.312	61	6204	0.222	ppbV	98
27) tertiary butyl alcohol	6.378	59	8474	0.229	ppbV #	70
28) methylene chloride	6.456	49	7391	0.283	ppbV	95
29) 3-chloropropene	6.582	41	7236	0.236	ppbV	93
30) carbon disulfide	6.750	76	15037	0.211	ppbV #	14
31) Freon 113	6.750	101	9058	0.223	ppbV	98
32) trans-1,2-dichloroethene	7.492	61	6168	0.210	ppbV	93
33) 1,1-dichloroethane	7.717	63	8093	0.218	ppbV	89
34) MTBE	7.800	73	11949	0.220	ppbV #	89
35) vinyl acetate	7.908	43	11293	0.223	ppbV	98
36) 2-butanone	8.175	43	11383	0.223	ppbV	100
37) cis-1,2-dichloroethene	8.658	61	5968	0.215	ppbV	93
38) Ethyl Acetate	8.950	61	1413	0.200	ppbV #	13
39) chloroform	8.992	83	8712	0.223	ppbV	100
40) Tetrahydrofuran	9.450	42	5984	0.205	ppbV	97
41) 2,2-dichloropropane	9.017	77	6782	0.229	ppbV	93
42) 1,2-dichloroethane	9.825	62	5378	0.248	ppbV #	94
44) hexane	8.917	57	8186	0.230	ppbV #	53
45) diisopropyl ether	8.925	87	4240	0.234	ppbV	86
46) tert-butyl ethyl ether	9.542	59	13674	0.224	ppbV	98
48) 1,1,1-trichloroethane	10.117	97	6883	0.220	ppbV	97
49) 1,1-dichloropropene	10.483	75	7704	0.232	ppbV	92
50) benzene	10.643	78	18054	0.220	ppbV	98
51) thiophene	10.790	84	13206	0.249	ppbV	96
52) carbon tetrachloride	10.817	117	6174	0.202	ppbV	93
53) cyclohexane	10.963	56	8713	0.229	ppbV	91
54) tert-amyl methyl ether	11.363	73	13927	0.225	ppbV	98
55) dibromomethane	11.563	93	4820	0.231	ppbV	98
56) 1,2-dichloropropane	11.597	63	5193	0.204	ppbV #	93
57) bromodichloromethane	11.823	83	7968	0.205	ppbV	98
58) 1,4-dioxane	11.883	88	3247	0.206	ppbV	98
59) trichloroethene	11.877	130	6478	0.207	ppbV	94
60) 2,2,4-trimethylpentane	11.937	57	28608	0.252	ppbV	99
61) methyl methacrylate	12.137	41	5998	0.217	ppbV	95
62) heptane	12.257	43	11202	0.217	ppbV	100
63) cis-1,3-dichloropropene	12.900	75	8477	0.202	ppbV	94
64) 4-methyl-2-pentanone	12.958	43	13758	0.221	ppbV	98
65) trans-1,3-dichloropropene	13.525	75	6227	0.187	ppbV	93
66) 1,1,2-trichloroethane	13.725	97	5787	0.205	ppbV	95

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab17\2024\01\0107T_I\
 Data File : r1737676.D
 Acq On : 7 Jan 2024 10:14 PM
 Operator : AIRLAB17:RAY
 Sample : ITO15-SIMSTD0.2
 Misc : WG1872080
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jan 08 14:48:17 2024
 Quant Method : O:\Forensics\Data\Airlab17\2024\01\0107T_I\TFS17_240107.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Mon Jan 08 14:48:09 2024
 Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab17\2024\01\0107T_I\r1737680.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68) toluene	14.050	91	18104	0.218	ppbV	97
70) 2-methylthiophene	14.117	97	18306	0.252	ppbV	98
71) 1,3-dichloropropane	14.075	76	9037	0.226	ppbV	99
72) 2-hexanone	14.375	43	9904	0.173	ppbV	96
73) 3-methylthiophene	14.317	97	17905	0.252	ppbV	96
74) dibromochloromethane	14.500	129	6411	0.175	ppbV	94
75) 1,2-dibromoethane	14.758	107	8954	0.207	ppbV	99
76) butyl acetate	15.042	73	1813	0.187	ppbV	90
77) octane	15.108	85	6630	0.234	ppbV #	100
78) tetrachloroethene	15.225	166	7286	0.220	ppbV	95
79) 1,1,1,2-tetrachloroethane	15.867	131	5853	0.208	ppbV	96
80) chlorobenzene	15.875	112	15810	0.220	ppbV	99
81) ethylbenzene	16.233	91	21996	0.206	ppbV	97
82) 2-ethylthiophene	16.275	97	19245	0.235	ppbV	98
83) m+p-xylene	16.400	91	36103	0.427	ppbV	95
84) bromoform	16.458	173	4586	0.158	ppbV	93
85) styrene	16.725	104	14435	0.196	ppbV	99
86) 1,1,2,2-tetrachloroethane	16.817	83	13159	0.207	ppbV	99
87) o-xylene	16.817	91	17833	0.211	ppbV	96
88) 1,2,3-trichloropropane	16.933	75	10805	0.228	ppbV	97
89) nonane	17.033	43	17684	0.229	ppbV	100
91) isopropylbenzene	17.342	105	24944	0.234	ppbV	94
92) bromobenzene	17.408	77	14033	0.229	ppbV	94
93) 2-chlorotoluene	17.750	126	6900	0.223	ppbV	92
94) n-propylbenzene	17.775	120	7381	0.221	ppbV	87
95) 4-chlorotoluene	17.808	126	6430	0.214	ppbV	91
96) 4-ethyl toluene	17.900	105	24681	0.215	ppbV	98
97) 1,3,5-trimethylbenzene	17.967	105	21917	0.220	ppbV	96
98) tert-butylbenzene	18.308	119	21845	0.230	ppbV	97
99) 1,2,4-trimethylbenzene	18.308	105	21492	0.214	ppbV	95
100) decane	18.408	57	16077	0.225	ppbV	95
101) Benzyl Chloride	18.433	91	8624	0.151	ppbV	94
102) 1,3-dichlorobenzene	18.442	146	12301	0.202	ppbV	96
103) 1,4-dichlorobenzene	18.500	146	11227	0.186	ppbV	98
104) sec-butylbenzene	18.542	105	30866	0.231	ppbV	100
105) 1,2,3-trimethylbenzene	18.667	105	20336	0.224	ppbV	98
106) p-isopropyltoluene	18.675	119	26933	0.236	ppbV	99
107) 1,2-dichlorobenzene	18.792	146	11967	0.209	ppbV	97
108) n-butylbenzene	19.042	91	21325	0.220	ppbV	94
109) indan	18.842	117	20115	0.216	ppbV	100

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab17\2024\01\0107T_I\
 Data File : r1737676.D
 Acq On : 7 Jan 2024 10:14 PM
 Operator : AIRLAB17:RAY
 Sample : ITO15-SIMSTD0.2
 Misc : WG1872080
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jan 08 14:48:17 2024
 Quant Method : O:\Forensics\Data\Airlab17\2024\01\0107T_I\TFS17_240107.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Mon Jan 08 14:48:09 2024
 Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab17\2024\01\0107T_I\r1737680.D
 Sub List : Default - All compounds listed

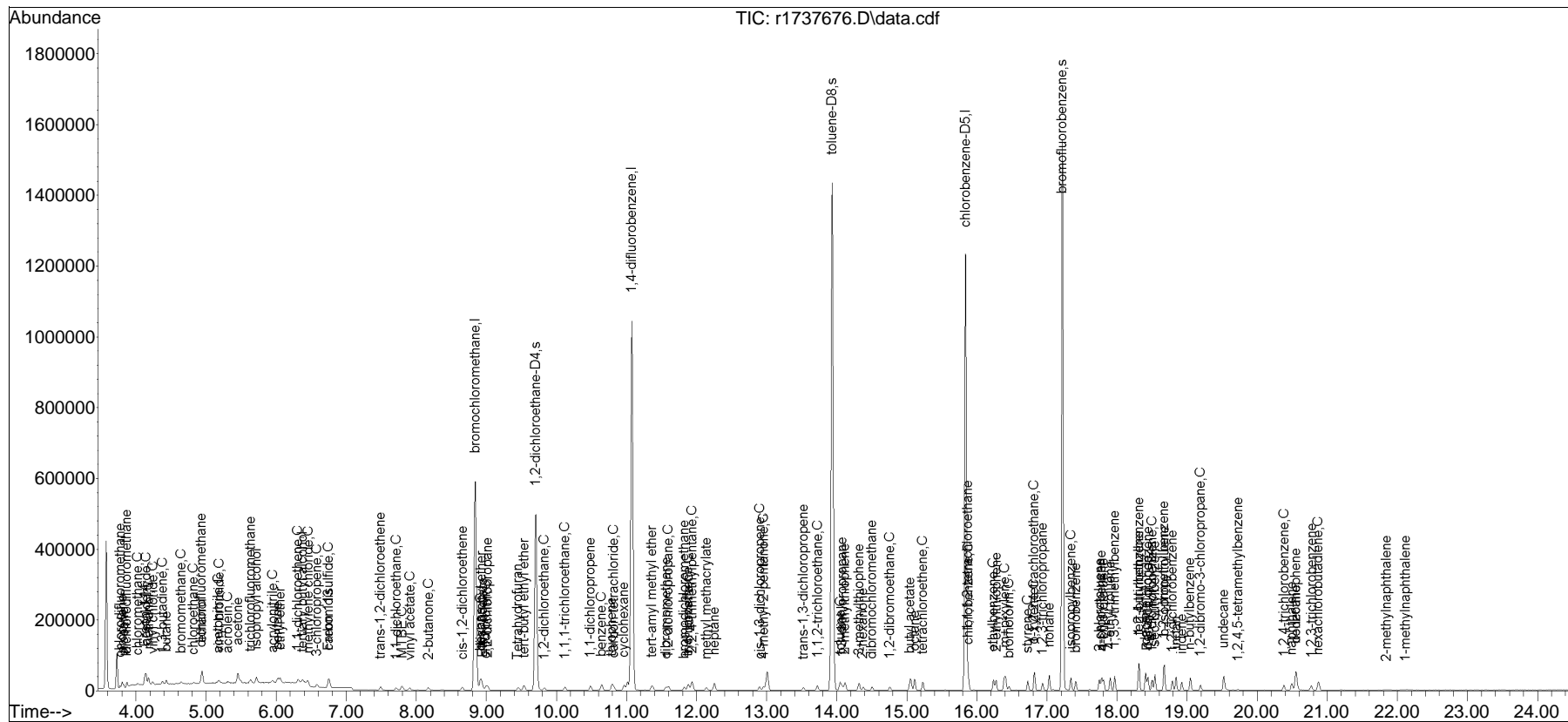
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
110) indene	18.925	115	12642	0.204	ppbV	98
111) 1,2-dibromo-3-chloropr...	19.192	75	4074	0.178	ppbV	97
112) undecane	19.525	57	16475	0.215	ppbV	95
113) 1,2,4,5-tetramethylben...	19.725	119	2034	0.210	ppbV	98
114) dodecane	20.550	57	14490	0.190	ppbV	98
115) 1,2,4-trichlorobenzene	20.383	180	5835	0.143	ppbV	94
116) naphthalene	20.492	128	19257	0.197	ppbV	99
117) 1,2,3-trichlorobenzene	20.775	180	5746	0.186	ppbV	92
118) benzothiophene	20.550	134	29982	0.149	ppbV	99
119) hexachlorobutadiene	20.867	225	7040	0.186	ppbV	94
120) 2-methylnaphthalene	21.842	142	2786M4	0.091	ppbV	
121) 1-methylnaphthalene	22.117	142	4785M4	0.108	ppbV	

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

Sub List : Default - All compounds listed4\01\0107T_I\r1737680.D

Data Path : O:\Forensics\Data\Airlab17\2024\01\0107T_I\
Data File : r1737676.D
Acq On : 7 Jan 2024 10:14 PM
Operator : AIRLAB17:RAY
Sample : ITO15-SIMSTD0.2
Misc : WG1872080
ALS Vial : 0 Sample Multiplier: 1

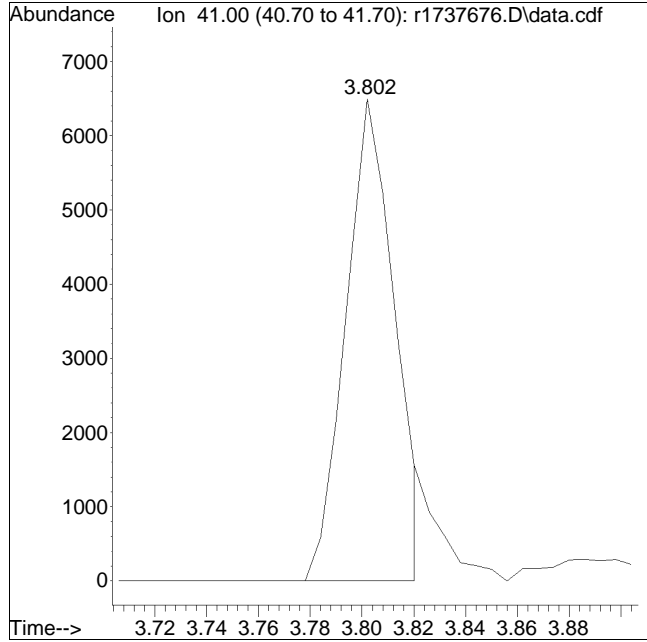
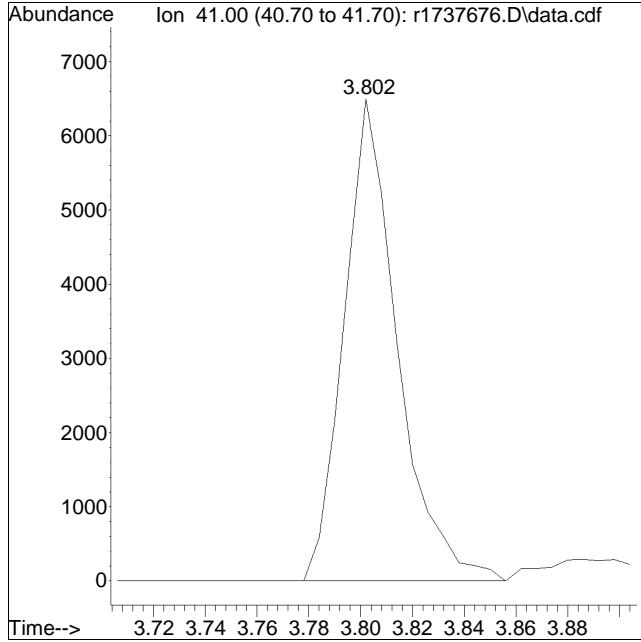
Quant Time: Jan 08 14:48:17 2024
Quant Method : O:\Forensics\Data\Airlab17\2024\01\0107T_I\TFS17_240107.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Mon Jan 08 14:48:09 2024
Response via : Initial Calibration



Manual Integration Report

Data Path : O:\Forensics\Data\Airlab17QMethod : TFS17_240107.M
Data File : r1737676.D Operator : AIRLAB17:RAY
Date Inj'd : 1/7/2020 0:0: 4 Instrument :
Sample : ITO15-SIMSTD0.2 Quant Date : 1/8/2024 2:48 pm

Compound #3: propylene



Original Peak Response = 9293

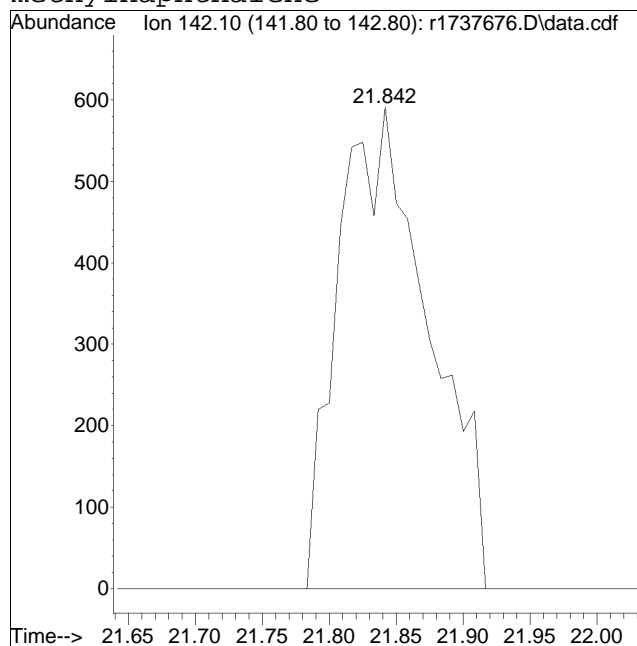
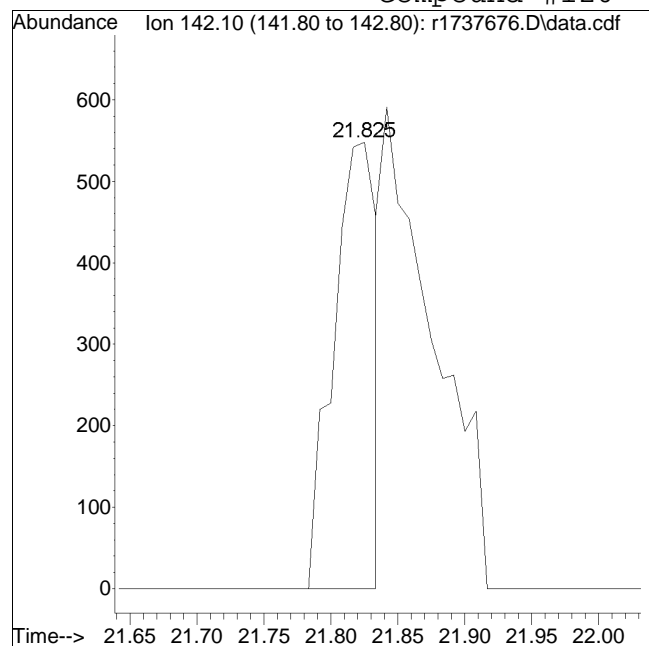
Manual Peak Response = 8523 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

Data Path : O:\Forensics\Data\Airlab17QMethod : TFS17_240107.M
Data File : r1737676.D Operator : AIRLAB17:RAY
Date Inj'd : 1/7/2020 0:0: 4 Instrument :
Sample : ITO15-SIMSTD0.2 Quant Date : 1/8/2024 2:48 pm

Compound #120: 2-methylnaphthalene



Original Peak Response = 1220

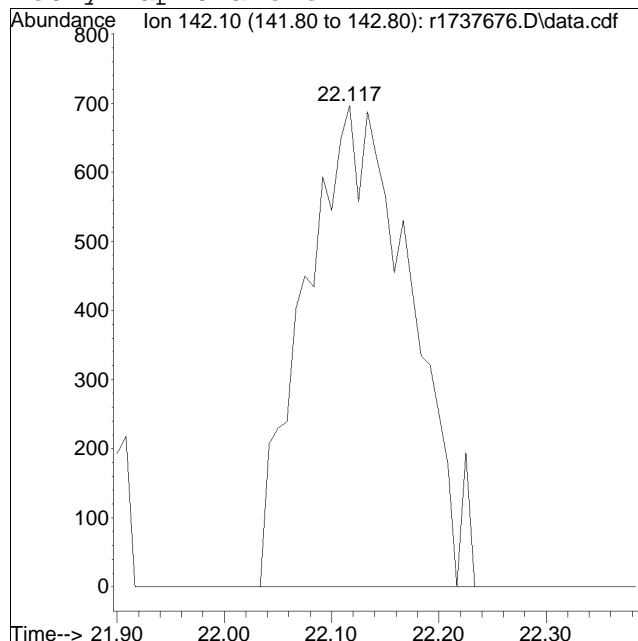
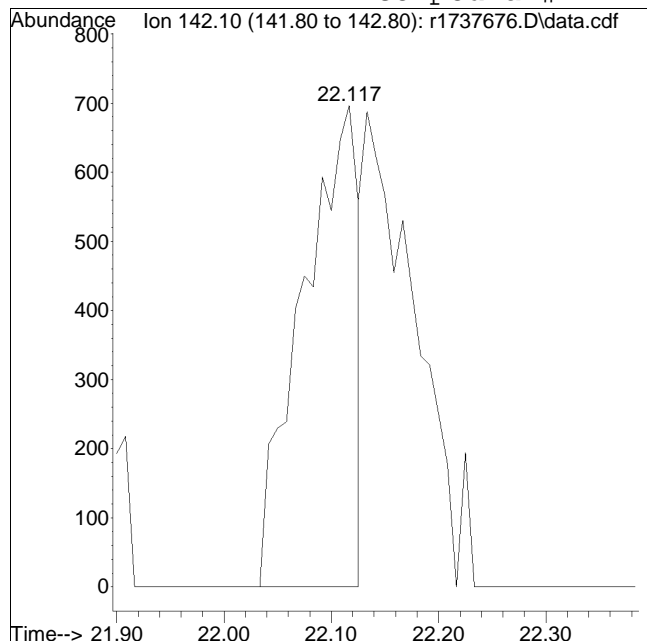
Manual Peak Response = 2786 M4

M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : O:\Forensics\Data\Airlab17QMethod : TFS17_240107.M
Data File : r1737676.D Operator : AIRLAB17:RAY
Date Inj'd : 1/7/2020 0:0: 4 Instrument :
Sample : ITO15-SIMSTD0.2 Quant Date : 1/8/2024 2:48 pm

Compound #121: 1-methylnaphthalene



Original Peak Response = 2501

Manual Peak Response = 4785 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab17\2024\01\0107T_I\
 Data File : r1737677.D
 Acq On : 7 Jan 2024 10:54 PM
 Operator : AIRLAB17:RAY
 Sample : ITO15-SIMSTD0.5
 Misc : WG1872080
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jan 08 14:48:29 2024
 Quant Method : O:\Forensics\Data\Airlab17\2024\01\0107T_I\TFS17_240107.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Mon Jan 08 14:48:09 2024
 Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab17\2024\01\0107T_I\r1737680.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
Internal Standards							
1) bromochloromethane	8.842	49	422548	10.000	ppbV	0.00	
Standard Area =	426000		Recovery =	99.19%			
43) 1,4-difluorobenzene	11.077	114	1125652	10.000	ppbV	0.00	
Standard Area =	1124227		Recovery =	100.13%			
67) chlorobenzene-D5	15.833	54	154324	10.000	ppbV	0.00	
Standard Area =	154777		Recovery =	99.71%			
System Monitoring Compounds							
47) 1,2-dichloroethane-D4	9.700	65	346469	10.126	ppbV	0.00	
Spiked Amount	10.000	Range 70 - 130	Recovery =	101.26%			
69) toluene-D8	13.933	98	1136631	9.959	ppbV	0.00	
Spiked Amount	10.000	Range 70 - 130	Recovery =	99.59%			
90) bromofluorobenzene	17.217	95	679787	9.633	ppbV	0.00	
Spiked Amount	10.000	Range 70 - 130	Recovery =	96.33%			
Target Compounds							
							Qvalue
2) chlorodifluoromethane	3.772	51	19291	0.553	ppbV		96
3) propylene	3.802	41	14628M6	0.818	ppbV		
4) propane	3.826	29	14802	0.589	ppbV		98
5) dichlorodifluoromethane	3.868	85	20862	0.512	ppbV		99
6) chloromethane	4.024	50	11191	0.517	ppbV		96
7) Freon-114	4.126	85	26050	0.522	ppbV		96
8) methanol	4.174	31	31958	3.074	ppbV #		73
9) vinyl chloride	4.240	62	11616	0.521	ppbV		99
10) 1,3-butadiene	4.378	54	10316	0.541	ppbV		98
11) butane	4.432	43	17450	0.559	ppbV		97
12) acetaldehyde	4.144	29	40487	2.785	ppbV #		86
13) bromomethane	4.642	94	9451	0.514	ppbV		95
14) chloroethane	4.822	64	5322	0.524	ppbV		94
15) ethanol	4.942	31	58598	3.158	ppbV		97
16) dichlorofluoromethane	4.930	67	19846	0.562	ppbV		99
17) vinyl bromide	5.187	106	9098	0.520	ppbV		97
18) acrolein	5.310	56	6731	0.684	ppbV #		69
19) acetone	5.447	43	73027	2.999	ppbV #		99
20) acetonitrile	5.170	41	9748	0.572	ppbV		93
21) trichlorofluoromethane	5.637	101	16469	0.512	ppbV		99
22) isopropyl alcohol	5.710	45	43613	1.292	ppbV		99
23) acrylonitrile	5.943	53	10313	0.554	ppbV		92
24) pentane	6.023	43	21162	0.576	ppbV #		97

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab17\2024\01\0107T_I\
 Data File : r1737677.D
 Acq On : 7 Jan 2024 10:54 PM
 Operator : AIRLAB17:RAY
 Sample : ITO15-SIMSTD0.5
 Misc : WG1872080
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jan 08 14:48:29 2024
 Quant Method : O:\Forensics\Data\Airlab17\2024\01\0107T_I\TFS17_240107.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Mon Jan 08 14:48:09 2024
 Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab17\2024\01\0107T_I\r1737680.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) ethyl ether	6.050	31	20802	0.566	ppbV	96
26) 1,1-dichloroethene	6.312	61	14527	0.506	ppbV	97
27) tertiary butyl alcohol	6.366	59	20815	0.547	ppbV #	86
28) methylene chloride	6.450	49	14387	0.535	ppbV	99
29) 3-chloropropene	6.582	41	17157	0.543	ppbV	96
30) carbon disulfide	6.750	76	35675	0.486	ppbV #	61
31) Freon 113	6.750	101	21101	0.505	ppbV	97
32) trans-1,2-dichloroethene	7.492	61	15608	0.516	ppbV	98
33) 1,1-dichloroethane	7.708	63	19530	0.510	ppbV	99
34) MTBE	7.792	73	29069	0.521	ppbV #	90
35) vinyl acetate	7.900	43	26662	0.511	ppbV	98
36) 2-butanone	8.167	43	27320	0.521	ppbV	97
37) cis-1,2-dichloroethene	8.658	61	14291	0.501	ppbV	95
38) Ethyl Acetate	8.942	61	3601	0.496	ppbV #	47
39) chloroform	8.992	83	20581	0.513	ppbV	98
40) Tetrahydrofuran	9.450	42	14770	0.490	ppbV	97
41) 2,2-dichloropropane	9.017	77	16169	0.530	ppbV	99
42) 1,2-dichloroethane	9.825	62	12336	0.553	ppbV	98
44) hexane	8.908	57	19368	0.529	ppbV #	53
45) diisopropyl ether	8.917	87	10223	0.547	ppbV	96
46) tert-butyl ethyl ether	9.533	59	33329	0.531	ppbV	97
48) 1,1,1-trichloroethane	10.117	97	15900	0.494	ppbV	92
49) 1,1-dichloropropene	10.483	75	17840	0.522	ppbV	100
50) benzene	10.643	78	42751	0.505	ppbV	100
51) thiophene	10.790	84	32100	0.586	ppbV	99
52) carbon tetrachloride	10.817	117	15046	0.477	ppbV	98
53) cyclohexane	10.963	56	20374	0.520	ppbV	97
54) tert-amyl methyl ether	11.357	73	34000	0.533	ppbV	97
55) dibromomethane	11.563	93	11690	0.544	ppbV	96
56) 1,2-dichloropropane	11.597	63	12898	0.493	ppbV	99
57) bromodichloromethane	11.823	83	18781	0.469	ppbV	99
58) 1,4-dioxane	11.877	88	7860	0.483	ppbV	93
59) trichloroethene	11.877	130	16091	0.500	ppbV	97
60) 2,2,4-trimethylpentane	11.930	57	68769	0.587	ppbV	98
61) methyl methacrylate	12.130	41	13698	0.482	ppbV	100
62) heptane	12.250	43	27021	0.509	ppbV	97
63) cis-1,3-dichloropropene	12.892	75	20382	0.471	ppbV	96
64) 4-methyl-2-pentanone	12.942	43	32512	0.507	ppbV	98
65) trans-1,3-dichloropropene	13.517	75	15654	0.456	ppbV	96
66) 1,1,2-trichloroethane	13.717	97	14844	0.509	ppbV	96

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab17\2024\01\0107T_I\
 Data File : r1737677.D
 Acq On : 7 Jan 2024 10:54 PM
 Operator : AIRLAB17:RAY
 Sample : ITO15-SIMSTD0.5
 Misc : WG1872080
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jan 08 14:48:29 2024
 Quant Method : O:\Forensics\Data\Airlab17\2024\01\0107T_I\TFS17_240107.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Mon Jan 08 14:48:09 2024
 Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab17\2024\01\0107T_I\r1737680.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68) toluene	14.042	91	43849	0.508	ppbV	98
70) 2-methylthiophene	14.117	97	43927	0.581	ppbV	97
71) 1,3-dichloropropane	14.075	76	21943	0.527	ppbV	99
72) 2-hexanone	14.358	43	25475	0.428	ppbV	99
73) 3-methylthiophene	14.317	97	42936	0.581	ppbV	97
74) dibromochloromethane	14.500	129	16491	0.434	ppbV	98
75) 1,2-dibromoethane	14.758	107	22048	0.490	ppbV	98
76) butyl acetate	15.025	73	4553	0.453	ppbV	95
77) octane	15.108	85	16045	0.545	ppbV	94
78) tetrachloroethene	15.225	166	17510	0.508	ppbV	98
79) 1,1,1,2-tetrachloroethane	15.858	131	14621	0.500	ppbV	97
80) chlorobenzene	15.875	112	37742	0.506	ppbV	98
81) ethylbenzene	16.233	91	54452	0.490	ppbV	99
82) 2-ethylthiophene	16.267	97	46473	0.546	ppbV	98
83) m+p-xylene	16.400	91	85560	0.973	ppbV	98
84) bromoform	16.458	173	11617	0.386	ppbV	100
85) styrene	16.725	104	35734	0.467	ppbV	98
86) 1,1,2,2-tetrachloroethane	16.817	83	32839	0.498	ppbV	100
87) o-xylene	16.817	91	43514	0.496	ppbV	100
88) 1,2,3-trichloropropane	16.933	75	26705	0.541	ppbV	96
89) nonane	17.025	43	43785	0.545	ppbV	98
91) isopropylbenzene	17.342	105	60016	0.543	ppbV	100
92) bromobenzene	17.408	77	34305	0.539	ppbV	94
93) 2-chlorotoluene	17.742	126	16585	0.515	ppbV	94
94) n-propylbenzene	17.775	120	18222	0.524	ppbV	92
95) 4-chlorotoluene	17.800	126	15857	0.508	ppbV	87
96) 4-ethyl toluene	17.900	105	60577	0.509	ppbV	98
97) 1,3,5-trimethylbenzene	17.958	105	51825	0.501	ppbV	99
98) tert-butylbenzene	18.308	119	52796	0.536	ppbV	99
99) 1,2,4-trimethylbenzene	18.308	105	53290	0.510	ppbV	96
100) decane	18.400	57	39425	0.531	ppbV	99
101) Benzyl Chloride	18.425	91	22862	0.386	ppbV	99
102) 1,3-dichlorobenzene	18.442	146	29511	0.466	ppbV	97
103) 1,4-dichlorobenzene	18.492	146	28597	0.455	ppbV	95
104) sec-butylbenzene	18.533	105	76867	0.555	ppbV	99
105) 1,2,3-trimethylbenzene	18.667	105	48860	0.519	ppbV	99
106) p-isopropyltoluene	18.667	119	65121	0.549	ppbV	99
107) 1,2-dichlorobenzene	18.783	146	28864	0.485	ppbV	99
108) n-butylbenzene	19.042	91	53933	0.535	ppbV	100
109) indan	18.842	117	50597	0.522	ppbV	98

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab17\2024\01\0107T_I\
 Data File : r1737677.D
 Acq On : 7 Jan 2024 10:54 PM
 Operator : AIRLAB17:RAY
 Sample : ITO15-SIMSTD0.5
 Misc : WG1872080
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jan 08 14:48:29 2024
 Quant Method : O:\Forensics\Data\Airlab17\2024\01\0107T_I\TFS17_240107.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Mon Jan 08 14:48:09 2024
 Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab17\2024\01\0107T_I\r1737680.D
 Sub List : Default - All compounds listed

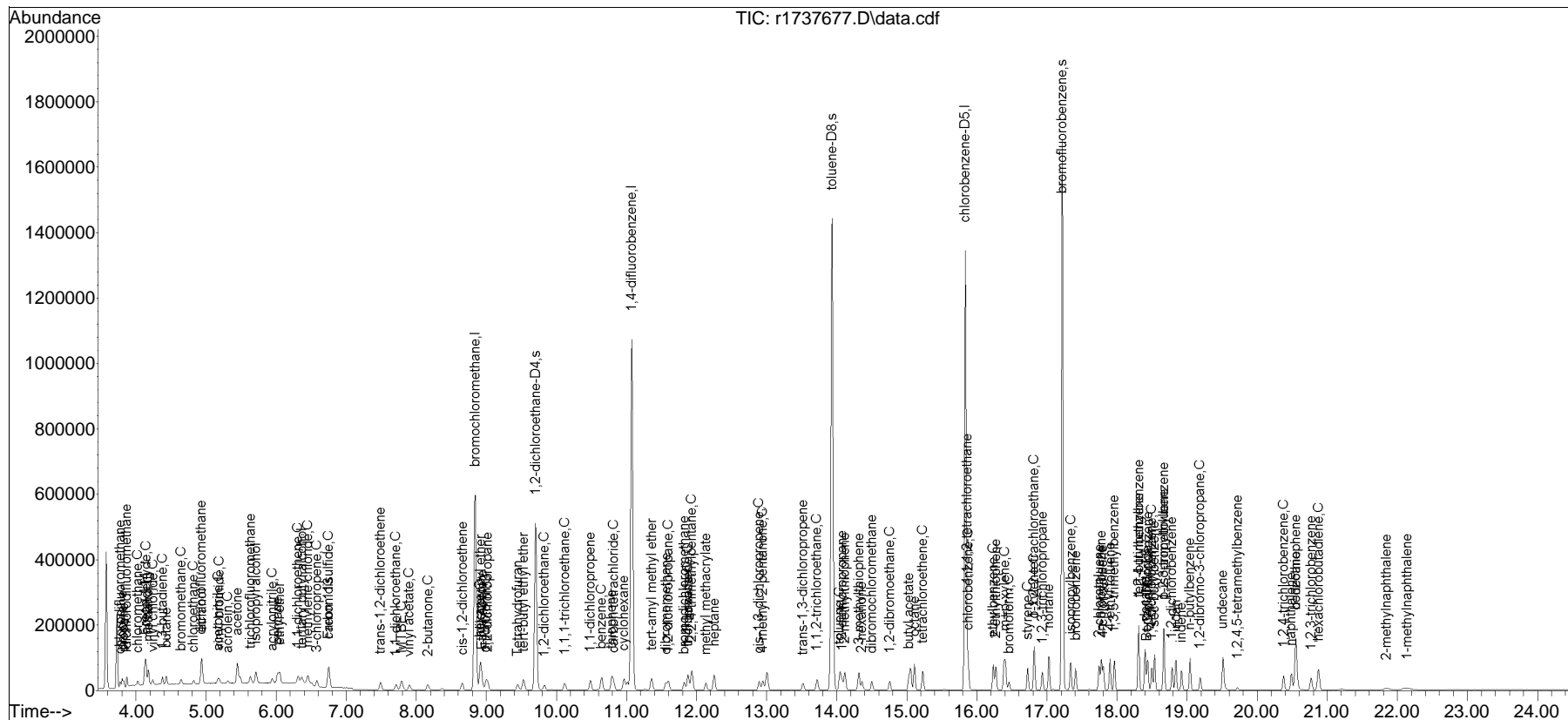
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
110) indene	18.917	115	32183	0.501	ppbV	96
111) 1,2-dibromo-3-chloropr...	19.183	75	10968	0.460	ppbV #	89
112) undecane	19.508	57	41417	0.521	ppbV	97
113) 1,2,4,5-tetramethylben...	19.717	119	5035	0.499	ppbV #	98
114) dodecane	20.550	57	39050	0.494	ppbV	100
115) 1,2,4-trichlorobenzene	20.375	180	16687	0.394	ppbV	97
116) naphthalene	20.483	128	49819	0.490	ppbV	98
117) 1,2,3-trichlorobenzene	20.767	180	15983	0.499	ppbV	97
118) benzothiophene	20.550	134	89365	0.427	ppbV	99
119) hexachlorobutadiene	20.875	225	18656	0.474	ppbV	97
120) 2-methylnaphthalene	21.842	142	11330	0.355	ppbV	99
121) 1-methylnaphthalene	22.142	142	17382	0.377	ppbV	93

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

Sub List : Default - All compounds listed4\01\0107T_I\r1737680.D

Data Path : O:\Forensics\Data\Airlab17\2024\01\0107T_I\
Data File : r1737677.D
Acq On : 7 Jan 2024 10:54 PM
Operator : AIRLAB17:RAY
Sample : ITO15-SIMSTD0.5
Misc : WG1872080
ALS Vial : 0 Sample Multiplier: 1

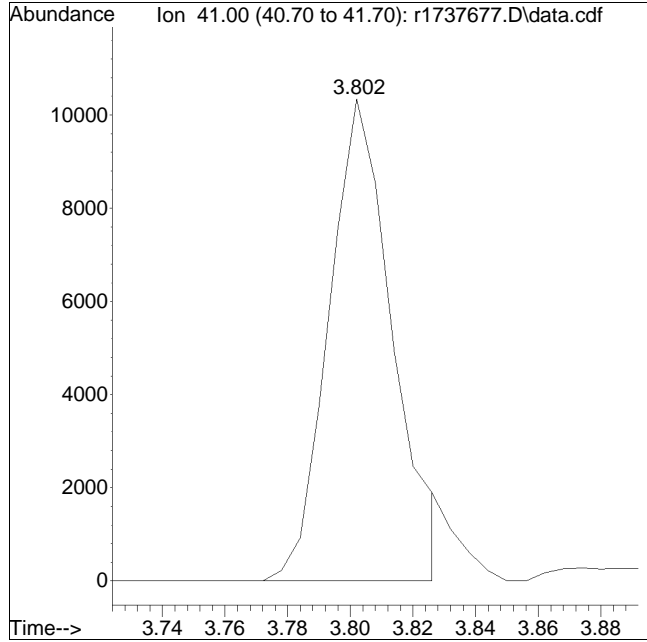
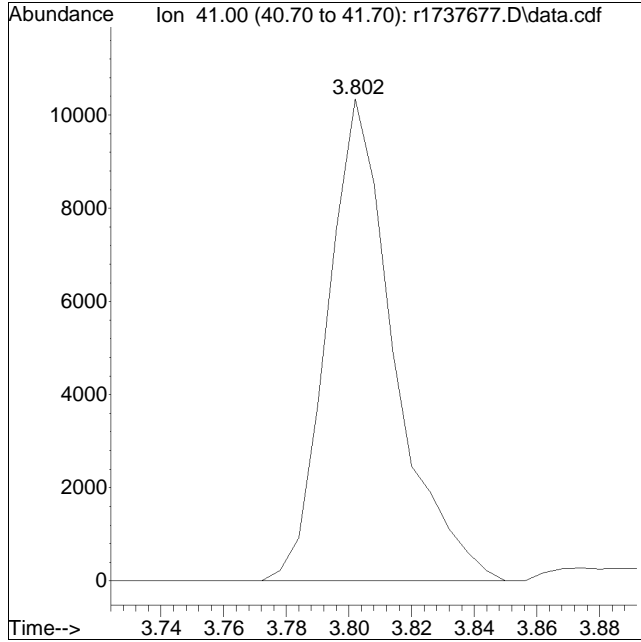
Quant Time: Jan 08 14:48:29 2024
Quant Method : O:\Forensics\Data\Airlab17\2024\01\0107T_I\TFS17_240107.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Mon Jan 08 14:48:09 2024
Response via : Initial Calibration



Manual Integration Report

Data Path : O:\Forensics\Data\Airlab17QMethod : TFS17_240107.M
Data File : r1737677.D Operator : AIRLAB17:RAY
Date Inj'd : 1/7/2020 0:0: 4 Instrument :
Sample : ITO15-SIMSTD0.5 Quant Date : 1/8/2024 2:48 pm

Compound #3: propylene



Original Peak Response = 15327

Manual Peak Response = 14628 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab17\2024\01\0107T_I\
 Data File : r1737678.D
 Acq On : 7 Jan 2024 11:36 PM
 Operator : AIRLAB17:RAY
 Sample : ITO15-SIMSTD1.0
 Misc : WG1872080
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jan 08 14:48:41 2024
 Quant Method : O:\Forensics\Data\Airlab17\2024\01\0107T_I\TFS17_240107.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Mon Jan 08 14:48:09 2024
 Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab17\2024\01\0107T_I\r1737680.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	8.842	49	410085	10.000	ppbV	0.00
Standard Area = 426000			Recovery =	96.26%		
43) 1,4-difluorobenzene	11.077	114	1097920	10.000	ppbV	0.00
Standard Area = 1124227			Recovery =	97.66%		
67) chlorobenzene-D5	15.842	54	147437	10.000	ppbV	0.00
Standard Area = 154777			Recovery =	95.26%		
System Monitoring Compounds						
47) 1,2-dichloroethane-D4	9.708	65	342180	10.253	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	102.53%		
69) toluene-D8	13.933	98	1137332	10.430	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	104.30%		
90) bromofluorobenzene	17.217	95	699727	10.379	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	103.79%		
Target Compounds						
2) chlorodifluoromethane	3.772	51	36546	1.079	ppbV	100
3) propylene	3.802	41	23174M6	1.336	ppbV	
4) propane	3.826	29	28201	1.156	ppbV	100
5) dichlorodifluoromethane	3.868	85	40817	1.032	ppbV	98
6) chloromethane	4.024	50	21714	1.033	ppbV	100
7) Freon-114	4.126	85	50488	1.042	ppbV	98
8) methanol	4.174	31	58817	5.830	ppbV #	86
9) vinyl chloride	4.240	62	21734	1.003	ppbV	97
10) 1,3-butadiene	4.378	54	19329	1.044	ppbV	95
11) butane	4.432	43	33367	1.100	ppbV	96
12) acetaldehyde	4.138	29	77585	5.498	ppbV	95
13) bromomethane	4.642	94	18101	1.013	ppbV	97
14) chloroethane	4.822	64	10132	1.027	ppbV	100
15) ethanol	4.936	31	113815	6.321	ppbV	97
16) dichlorofluoromethane	4.930	67	37643	1.098	ppbV	99
17) vinyl bromide	5.190	106	17197	1.013	ppbV	92
18) acrolein	5.307	56	9952	1.042	ppbV #	85
19) acetone	5.443	43	140188	5.932	ppbV #	99
20) acetonitrile	5.167	41	17977	1.086	ppbV	97
21) trichlorofluoromethane	5.637	101	31867	1.021	ppbV	98
22) isopropyl alcohol	5.710	45	82754	2.526	ppbV	99
23) acrylonitrile	5.947	53	19070	1.056	ppbV	98
24) pentane	6.020	43	39744	1.116	ppbV	98

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab17\2024\01\0107T_I\
 Data File : r1737678.D
 Acq On : 7 Jan 2024 11:36 PM
 Operator : AIRLAB17:RAY
 Sample : ITO15-SIMSTD1.0
 Misc : WG1872080
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jan 08 14:48:41 2024
 Quant Method : O:\Forensics\Data\Airlab17\2024\01\0107T_I\TFS17_240107.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Mon Jan 08 14:48:09 2024
 Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab17\2024\01\0107T_I\r1737680.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) ethyl ether	6.050	31	38993	1.093	ppbV	95
26) 1,1-dichloroethene	6.318	61	28165	1.010	ppbV	98
27) tertiary butyl alcohol	6.360	59	39587	1.071	ppbV #	95
28) methylene chloride	6.456	49	27598	1.058	ppbV	95
29) 3-chloropropene	6.582	41	30546	0.997	ppbV	99
30) carbon disulfide	6.750	76	69744	0.980	ppbV #	80
31) Freon 113	6.750	101	41097	1.013	ppbV	100
32) trans-1,2-dichloroethene	7.492	61	29707	1.013	ppbV	97
33) 1,1-dichloroethane	7.717	63	37335	1.005	ppbV	100
34) MTBE	7.783	73	55233	1.020	ppbV #	94
35) vinyl acetate	7.900	43	52737	1.041	ppbV	99
36) 2-butanone	8.158	43	53106	1.044	ppbV	99
37) cis-1,2-dichloroethene	8.658	61	27913	1.008	ppbV	97
38) Ethyl Acetate	8.933	61	7139	1.013	ppbV	98
39) chloroform	8.992	83	39526	1.015	ppbV	99
40) Tetrahydrofuran	9.442	42	29242	1.000	ppbV	99
41) 2,2-dichloropropane	9.017	77	31007	1.048	ppbV	99
42) 1,2-dichloroethane	9.825	62	22480	1.038	ppbV	98
44) hexane	8.917	57	36851	1.031	ppbV	83
45) diisopropyl ether	8.917	87	19042	1.045	ppbV	96
46) tert-butyl ethyl ether	9.533	59	65463	1.069	ppbV	97
48) 1,1,1-trichloroethane	10.117	97	31069	0.989	ppbV	100
49) 1,1-dichloropropene	10.490	75	35335	1.060	ppbV	97
50) benzene	10.643	78	83356	1.010	ppbV	100
51) thiophene	10.790	84	60542	1.134	ppbV	98
52) carbon tetrachloride	10.823	117	28419	0.924	ppbV	98
53) cyclohexane	10.963	56	38978	1.019	ppbV	97
54) tert-amyl methyl ether	11.357	73	64845	1.042	ppbV	99
55) dibromomethane	11.563	93	21795	1.040	ppbV	98
56) 1,2-dichloropropane	11.603	63	25301	0.991	ppbV	97
57) bromodichloromethane	11.830	83	36721	0.940	ppbV	100
58) 1,4-dioxane	11.877	88	15261	0.962	ppbV	94
59) trichloroethene	11.883	130	31033	0.988	ppbV	97
60) 2,2,4-trimethylpentane	11.937	57	132406	1.158	ppbV	100
61) methyl methacrylate	12.137	41	26640	0.960	ppbV	99
62) heptane	12.257	43	52311	1.009	ppbV	99
63) cis-1,3-dichloropropene	12.900	75	39943	0.946	ppbV	98
64) 4-methyl-2-pentanone	12.942	43	60772	0.972	ppbV	98
65) trans-1,3-dichloropropene	13.525	75	29906	0.893	ppbV	98
66) 1,1,2-trichloroethane	13.725	97	28189	0.992	ppbV	96

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab17\2024\01\0107T_I\
 Data File : r1737678.D
 Acq On : 7 Jan 2024 11:36 PM
 Operator : AIRLAB17:RAY
 Sample : ITO15-SIMSTD1.0
 Misc : WG1872080
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jan 08 14:48:41 2024
 Quant Method : O:\Forensics\Data\Airlab17\2024\01\0107T_I\TFS17_240107.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Mon Jan 08 14:48:09 2024
 Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab17\2024\01\0107T_I\r1737680.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68) toluene	14.050	91	84111	1.019	ppbV	99
70) 2-methylthiophene	14.117	97	85002	1.177	ppbV	99
71) 1,3-dichloropropane	14.083	76	42484	1.069	ppbV	97
72) 2-hexanone	14.350	43	50740	0.893	ppbV	100
73) 3-methylthiophene	14.317	97	83188	1.178	ppbV	99
74) dibromochloromethane	14.508	129	33152	0.913	ppbV	96
75) 1,2-dibromoethane	14.758	107	42758	0.994	ppbV	100
76) butyl acetate	15.025	73	9117	0.949	ppbV	95
77) octane	15.108	85	30524	1.086	ppbV	98
78) tetrachloroethene	15.233	166	32816	0.997	ppbV	96
79) 1,1,1,2-tetrachloroethane	15.867	131	28644	1.025	ppbV	98
80) chlorobenzene	15.875	112	71772	1.008	ppbV	99
81) ethylbenzene	16.233	91	104532	0.985	ppbV	98
82) 2-ethylthiophene	16.275	97	92565	1.138	ppbV	99
83) m+p-xylene	16.392	91	168484	2.006	ppbV	98
84) bromoform	16.458	173	23672	0.823	ppbV	95
85) styrene	16.725	104	68998	0.945	ppbV	99
86) 1,1,2,2-tetrachloroethane	16.817	83	63095	1.001	ppbV	99
87) o-xylene	16.817	91	84959	1.014	ppbV	99
88) 1,2,3-trichloropropane	16.933	75	51079	1.083	ppbV	99
89) nonane	17.025	43	83943	1.094	ppbV	99
91) isopropylbenzene	17.342	105	116428	1.102	ppbV	97
92) bromobenzene	17.408	77	66369	1.091	ppbV	95
93) 2-chlorotoluene	17.742	126	33181	1.078	ppbV	93
94) n-propylbenzene	17.775	120	35848	1.080	ppbV	99
95) 4-chlorotoluene	17.808	126	30252	1.014	ppbV	97
96) 4-ethyl toluene	17.900	105	118490	1.041	ppbV	99
97) 1,3,5-trimethylbenzene	17.958	105	102624	1.038	ppbV	97
98) tert-butylbenzene	18.308	119	102710	1.091	ppbV	99
99) 1,2,4-trimethylbenzene	18.308	105	101826	1.020	ppbV	96
100) decane	18.400	57	76452	1.079	ppbV	94
101) Benzyl Chloride	18.425	91	46747	0.827	ppbV	98
102) 1,3-dichlorobenzene	18.442	146	58786	0.972	ppbV	99
103) 1,4-dichlorobenzene	18.492	146	56550	0.942	ppbV	97
104) sec-butylbenzene	18.533	105	149158	1.126	ppbV	99
105) 1,2,3-trimethylbenzene	18.667	105	95581	1.062	ppbV	99
106) p-isopropyltoluene	18.667	119	124881	1.102	ppbV	100
107) 1,2-dichlorobenzene	18.783	146	56354	0.991	ppbV	99
108) n-butylbenzene	19.042	91	105473	1.095	ppbV	99
109) indan	18.842	117	98290	1.062	ppbV	99

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab17\2024\01\0107T_I\
 Data File : r1737678.D
 Acq On : 7 Jan 2024 11:36 PM
 Operator : AIRLAB17:RAY
 Sample : ITO15-SIMSTD1.0
 Misc : WG1872080
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jan 08 14:48:41 2024
 Quant Method : O:\Forensics\Data\Airlab17\2024\01\0107T_I\TFS17_240107.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Mon Jan 08 14:48:09 2024
 Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab17\2024\01\0107T_I\r1737680.D
 Sub List : Default - All compounds listed

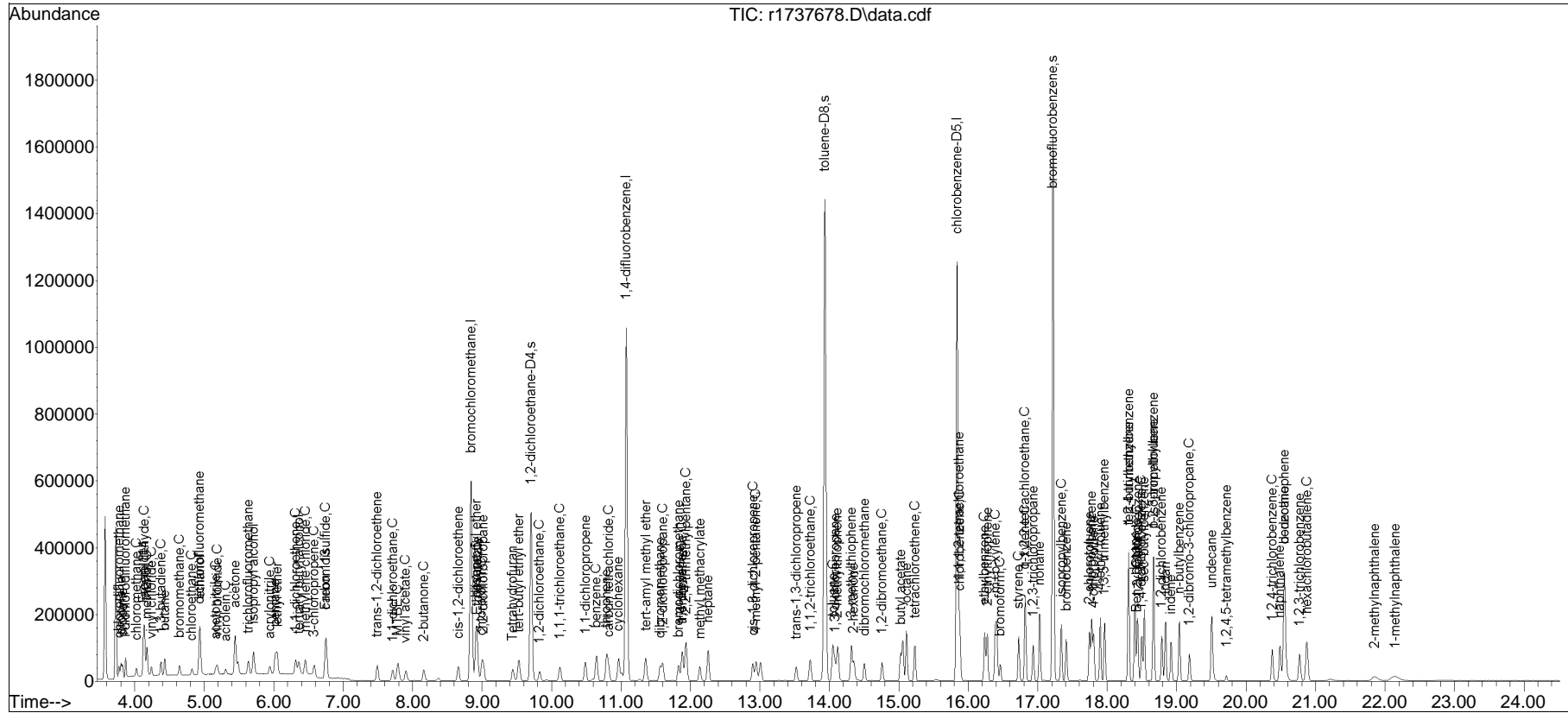
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
110) indene	18.917	115	63256	1.030	ppbV	97
111) 1,2-dibromo-3-chloropr...	19.183	75	22670	0.996	ppbV	91
112) undecane	19.508	57	81739	1.076	ppbV	98
113) 1,2,4,5-tetramethylben...	19.717	119	9682	1.005	ppbV	99
114) dodecane	20.550	57	77096	1.020	ppbV	98
115) 1,2,4-trichlorobenzene	20.375	180	34374	0.850	ppbV	98
116) naphthalene	20.483	128	105627	1.087	ppbV	98
117) 1,2,3-trichlorobenzene	20.767	180	32086	1.048	ppbV	98
118) benzothiophene	20.550	134	199083	0.995	ppbV	99
119) hexachlorobutadiene	20.875	225	36574	0.972	ppbV	98
120) 2-methylnaphthalene	21.850	142	27086	0.889	ppbV	96
121) 1-methylnaphthalene	22.150	142	38516	0.875	ppbV	96

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

Sub List : Default - All compounds listed4\01\0107T_I\r1737680.D

Data Path : O:\Forensics\Data\Airlab17\2024\01\0107T_I\
Data File : r1737678.D
Acq On : 7 Jan 2024 11:36 PM
Operator : AIRLAB17:RAY
Sample : ITO15-SIMSTD1.0
Misc : WG1872080
ALS Vial : 0 Sample Multiplier: 1

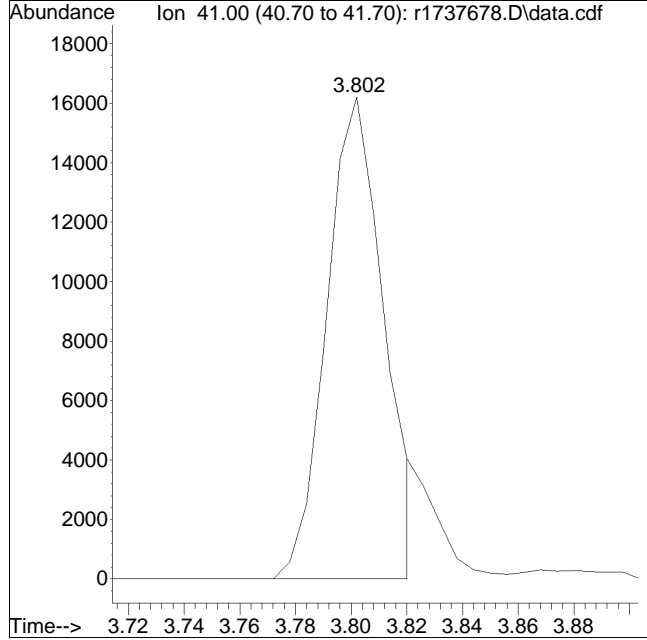
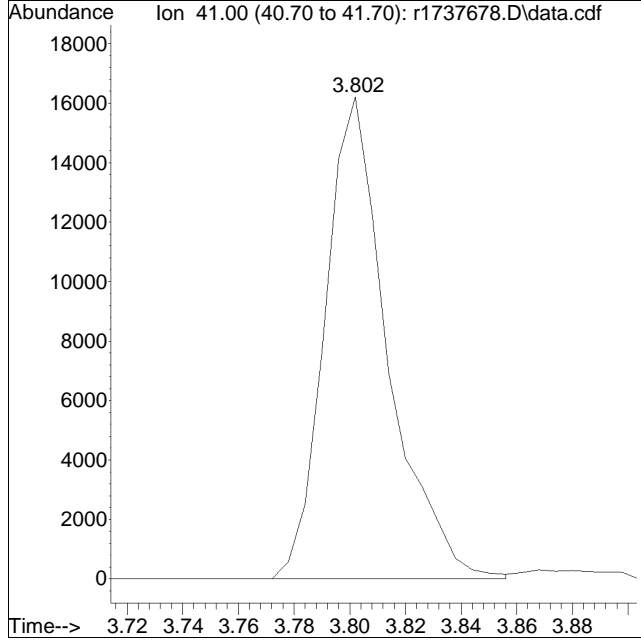
Quant Time: Jan 08 14:48:41 2024
Quant Method : O:\Forensics\Data\Airlab17\2024\01\0107T_I\TFS17_240107.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Mon Jan 08 14:48:09 2024
Response via : Initial Calibration



Manual Integration Report

Data Path : O:\Forensics\Data\Airlab17QMethod : TFS17_240107.M
Data File : r1737678.D Operator : AIRLAB17:RAY
Date Inj'd : 1/7/2020 0:1: 6 Instrument :
Sample : ITO15-SIMSTD1.0 Quant Date : 1/8/2024 2:48 pm

Compound #3: propylene



Original Peak Response = 25461

Manual Peak Response = 23174 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab17\2024\01\0107T_I\
 Data File : r1737679.D
 Acq On : 8 Jan 2024 12:15 AM
 Operator : AIRLAB17:RAY
 Sample : ITO15-SIMSTD5.0
 Misc : WG1872080
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jan 08 14:48:53 2024
 Quant Method : O:\Forensics\Data\Airlab17\2024\01\0107T_I\TFS17_240107.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Mon Jan 08 14:48:09 2024
 Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab17\2024\01\0107T_I\r1737680.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	8.842	49	429879	10.000	ppbV	0.00
Standard Area = 426000			Recovery = 100.91%			
43) 1,4-difluorobenzene	11.070	114	1136844	10.000	ppbV	0.00
Standard Area = 1124227			Recovery = 101.12%			
67) chlorobenzene-D5	15.833	54	155961	10.000	ppbV	0.00
Standard Area = 154777			Recovery = 100.76%			
System Monitoring Compounds						
47) 1,2-dichloroethane-D4	9.700	65	351085	10.160	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 101.60%			
69) toluene-D8	13.933	98	1165834	10.107	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 101.07%			
90) bromofluorobenzene	17.217	95	720227	10.099	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.99%			
Target Compounds						
2) chlorodifluoromethane	3.772	51	172346	4.855	ppbV	100
3) propylene	3.802	41	92993M6	5.113	ppbV	
4) propane	3.820	29	131144	5.128	ppbV	98
5) dichlorodifluoromethane	3.868	85	213233	5.144	ppbV	99
6) chloromethane	4.024	50	110830	5.028	ppbV	99
7) Freon-114	4.126	85	261651	5.150	ppbV	97
8) methanol	4.174	31	264847	25.044	ppbV	97
9) vinyl chloride	4.240	62	113963	5.019	ppbV	99
10) 1,3-butadiene	4.372	54	97120	5.005	ppbV	98
11) butane	4.432	43	159470	5.017	ppbV	100
12) acetaldehyde	4.138	29	388153	26.240	ppbV	99
13) bromomethane	4.642	94	93564	4.997	ppbV	99
14) chloroethane	4.822	64	51729	5.004	ppbV	99
15) ethanol	4.936	31	445755	23.616	ppbV	100
16) dichlorofluoromethane	4.924	67	179537	4.996	ppbV	100
17) vinyl bromide	5.187	106	89673	5.039	ppbV	98
18) acrolein	5.303	56	50497	5.044	ppbV	96
19) acetone	5.437	43	623611	25.172	ppbV	100
20) acetonitrile	5.163	41	85192	4.910	ppbV	97
21) trichlorofluoromethane	5.633	101	164042	5.011	ppbV	99
22) isopropyl alcohol	5.703	45	426477	12.419	ppbV	100
23) acrylonitrile	5.940	53	92200	4.872	ppbV	98
24) pentane	6.020	43	187796	5.028	ppbV	99

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab17\2024\01\0107T_I\
 Data File : r1737679.D
 Acq On : 8 Jan 2024 12:15 AM
 Operator : AIRLAB17:RAY
 Sample : ITO15-SIMSTD5.0
 Misc : WG1872080
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jan 08 14:48:53 2024
 Quant Method : O:\Forensics\Data\Airlab17\2024\01\0107T_I\TFS17_240107.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Mon Jan 08 14:48:09 2024
 Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab17\2024\01\0107T_I\r1737680.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) ethyl ether	6.043	31	188287	5.036	ppbV	100
26) 1,1-dichloroethene	6.312	61	147439	5.044	ppbV	99
27) tertiary butyl alcohol	6.348	59	193332	4.990	ppbV	99
28) methylene chloride	6.450	49	137972	5.048	ppbV	96
29) 3-chloropropene	6.582	41	158363	4.930	ppbV	99
30) carbon disulfide	6.744	76	366889	4.916	ppbV	98
31) Freon 113	6.750	101	216454	5.088	ppbV	99
32) trans-1,2-dichloroethene	7.492	61	152522	4.961	ppbV	99
33) 1,1-dichloroethane	7.708	63	194552	4.998	ppbV	99
34) MTBE	7.775	73	285050	5.019	ppbV	99
35) vinyl acetate	7.900	43	259605	4.887	ppbV	100
36) 2-butanone	8.150	43	263831	4.945	ppbV	100
37) cis-1,2-dichloroethene	8.658	61	145030	4.997	ppbV	99
38) Ethyl Acetate	8.925	61	36992	5.010	ppbV	94
39) chloroform	8.992	83	206476	5.057	ppbV	100
40) Tetrahydrofuran	9.425	42	151080	4.931	ppbV	99
41) 2,2-dichloropropane	9.017	77	154651	4.987	ppbV	100
42) 1,2-dichloroethane	9.825	62	113350	4.994	ppbV	99
44) hexane	8.908	57	185677	5.019	ppbV	93
45) diisopropyl ether	8.908	87	93836	4.971	ppbV	98
46) tert-butyl ethyl ether	9.517	59	317288	5.003	ppbV	99
48) 1,1,1-trichloroethane	10.117	97	161296	4.958	ppbV	99
49) 1,1-dichloropropene	10.483	75	171525	4.971	ppbV	100
50) benzene	10.643	78	426570	4.994	ppbV	100
51) thiophene	10.790	84	276329	4.998	ppbV	100
52) carbon tetrachloride	10.817	117	154811	4.862	ppbV	99
53) cyclohexane	10.963	56	198120	5.004	ppbV	98
54) tert-amyl methyl ether	11.343	73	320546	4.975	ppbV	100
55) dibromomethane	11.557	93	108198	4.986	ppbV	99
56) 1,2-dichloropropane	11.597	63	131929	4.989	ppbV	100
57) bromodichloromethane	11.823	83	197793	4.888	ppbV	97
58) 1,4-dioxane	11.857	88	81042	4.934	ppbV	97
59) trichloroethene	11.877	130	162925	5.011	ppbV	98
60) 2,2,4-trimethylpentane	11.930	57	592083	5.001	ppbV	100
61) methyl methacrylate	12.123	41	140358	4.887	ppbV	99
62) heptane	12.250	43	269214	5.016	ppbV	99
63) cis-1,3-dichloropropene	12.892	75	215508	4.932	ppbV	99
64) 4-methyl-2-pentanone	12.933	43	320882	4.955	ppbV	100
65) trans-1,3-dichloropropene	13.517	75	169470	4.889	ppbV	99
66) 1,1,2-trichloroethane	13.717	97	147254	5.003	ppbV	99

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab17\2024\01\0107T_I\
 Data File : r1737679.D
 Acq On : 8 Jan 2024 12:15 AM
 Operator : AIRLAB17:RAY
 Sample : ITO15-SIMSTD5.0
 Misc : WG1872080
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jan 08 14:48:53 2024
 Quant Method : O:\Forensics\Data\Airlab17\2024\01\0107T_I\TFS17_240107.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Mon Jan 08 14:48:09 2024
 Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab17\2024\01\0107T_I\r1737680.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68) toluene	14.042	91	434291	4.974	ppbV	98
70) 2-methylthiophene	14.117	97	380314	4.980	ppbV	100
71) 1,3-dichloropropane	14.075	76	211116	5.021	ppbV	98
72) 2-hexanone	14.333	43	295279	4.912	ppbV	99
73) 3-methylthiophene	14.317	97	375037	5.021	ppbV	99
74) dibromochloromethane	14.500	129	183234	4.773	ppbV	99
75) 1,2-dibromoethane	14.750	107	228918	5.031	ppbV	100
76) butyl acetate	15.008	73	49329	4.855	ppbV	97
77) octane	15.108	85	148889	5.006	ppbV	95
78) tetrachloroethene	15.225	166	173250	4.974	ppbV	96
79) 1,1,1,2-tetrachloroethane	15.858	131	145609	4.927	ppbV	97
80) chlorobenzene	15.875	112	378394	5.022	ppbV	99
81) ethylbenzene	16.233	91	556952	4.962	ppbV	99
82) 2-ethylthiophene	16.267	97	425217	4.944	ppbV	99
83) m+p-xylene	16.392	91	879993	9.906	ppbV	99
84) bromoform	16.458	173	142444	4.683	ppbV	98
85) styrene	16.725	104	377925	4.892	ppbV	98
86) 1,1,2,2-tetrachloroethane	16.808	83	332614	4.989	ppbV	100
87) o-xylene	16.817	91	442786	4.996	ppbV	99
88) 1,2,3-trichloropropane	16.925	75	249093	4.995	ppbV	99
89) nonane	17.025	43	408876	5.040	ppbV	100
91) isopropylbenzene	17.333	105	568501	5.086	ppbV	98
92) bromobenzene	17.408	77	322431	5.012	ppbV	100
93) 2-chlorotoluene	17.742	126	161153	4.949	ppbV	87
94) n-propylbenzene	17.767	120	174472	4.967	ppbV	99
95) 4-chlorotoluene	17.800	126	155560	4.931	ppbV	98
96) 4-ethyl toluene	17.892	105	607577	5.047	ppbV	99
97) 1,3,5-trimethylbenzene	17.958	105	533983	5.108	ppbV	97
98) tert-butylbenzene	18.300	119	498220	5.004	ppbV	99
99) 1,2,4-trimethylbenzene	18.300	105	529695	5.017	ppbV	98
100) decane	18.392	57	374290	4.992	ppbV	97
101) Benzyl Chloride	18.425	91	272876	4.563	ppbV	98
102) 1,3-dichlorobenzene	18.433	146	311885	4.877	ppbV	99
103) 1,4-dichlorobenzene	18.492	146	307237	4.839	ppbV	99
104) sec-butylbenzene	18.525	105	707560	5.051	ppbV	100
105) 1,2,3-trimethylbenzene	18.658	105	482072	5.064	ppbV	99
106) p-isopropyltoluene	18.658	119	596995	4.979	ppbV	99
107) 1,2-dichlorobenzene	18.783	146	290763	4.833	ppbV	97
108) n-butylbenzene	19.025	91	508785	4.994	ppbV	98
109) indan	18.833	117	493505	5.042	ppbV	98

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab17\2024\01\0107T_I\
 Data File : r1737679.D
 Acq On : 8 Jan 2024 12:15 AM
 Operator : AIRLAB17:RAY
 Sample : ITO15-SIMSTD5.0
 Misc : WG1872080
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jan 08 14:48:53 2024
 Quant Method : O:\Forensics\Data\Airlab17\2024\01\0107T_I\TFS17_240107.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Mon Jan 08 14:48:09 2024
 Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab17\2024\01\0107T_I\r1737680.D
 Sub List : Default - All compounds listed

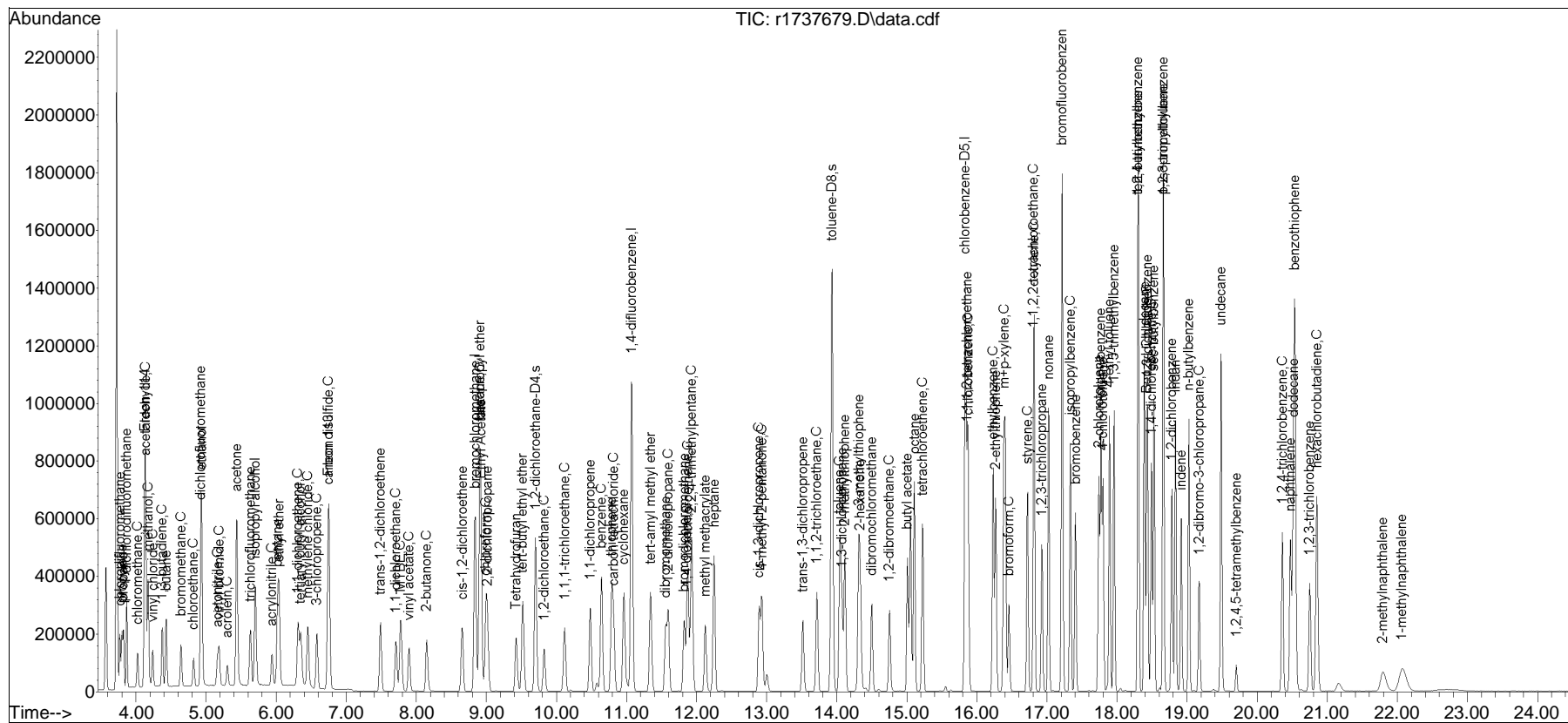
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
110) indene	18.917	115	319244	4.914	ppbV	99
111) 1,2-dibromo-3-chloropr...	19.175	75	114164	4.740	ppbV	96
112) undecane	19.483	57	400266	4.982	ppbV	100
113) 1,2,4,5-tetramethylben...	19.700	119	49465	4.853	ppbV	98
114) dodecane	20.517	57	382749	4.787	ppbV	99
115) 1,2,4-trichlorobenzene	20.358	180	193326	4.520	ppbV	98
116) naphthalene	20.475	128	474724	4.618	ppbV	99
117) 1,2,3-trichlorobenzene	20.750	180	144198	4.451	ppbV	99
118) benzothiophene	20.533	134	907123	4.284	ppbV	98
119) hexachlorobutadiene	20.850	225	192274	4.832	ppbV	99
120) 2-methylnaphthalene	21.792	142	121981	3.786	ppbV	98
121) 1-methylnaphthalene	22.067	142	186452	4.005	ppbV	99

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

Sub List : Default - All compounds listed4\01\0107T_I\r1737680.D

Data Path : O:\Forensics\Data\Airlab17\2024\01\0107T_I\
Data File : r1737679.D
Acq On : 8 Jan 2024 12:15 AM
Operator : AIRLAB17:RAY
Sample : ITO15-SIMSTD5.0
Misc : WG1872080
ALS Vial : 0 Sample Multiplier: 1

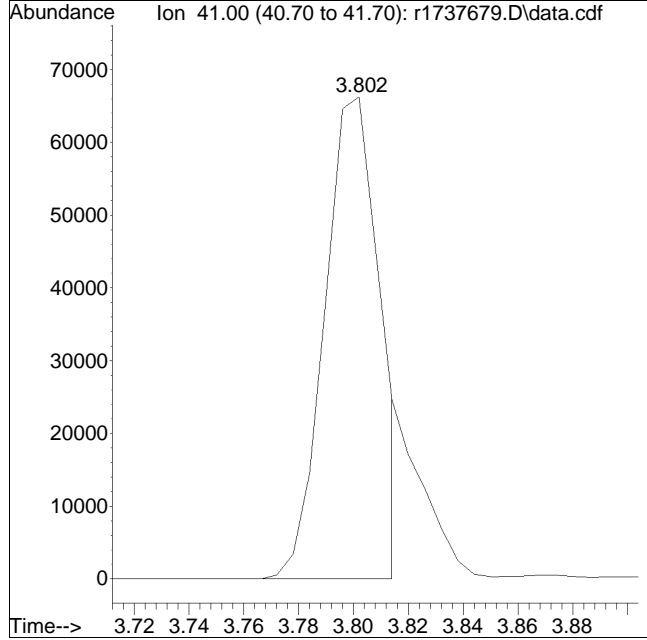
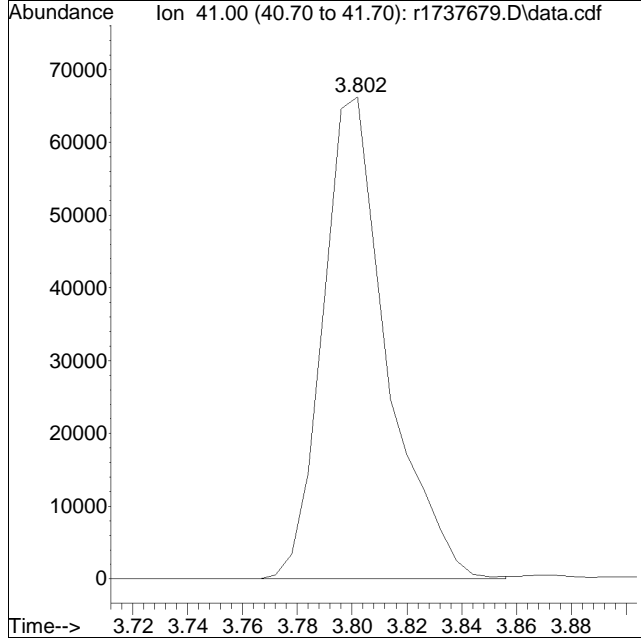
Quant Time: Jan 08 14:48:53 2024
Quant Method : O:\Forensics\Data\Airlab17\2024\01\0107T_I\TFS17_240107.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Mon Jan 08 14:48:09 2024
Response via : Initial Calibration



Manual Integration Report

Data Path : O:\Forensics\Data\Airlab17QMethod : TFS17_240107.M
Data File : r1737679.D Operator : AIRLAB17:RAY
Date Inj'd : 1/8/2020 0:2: 5 Instrument :
Sample : ITO15-SIMSTD5.0 Quant Date : 1/8/2024 2:48 pm

Compound #3: propylene



Original Peak Response = 107522

Manual Peak Response = 92993 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab17\2024\01\0107T_I\
 Data File : r1737680.D
 Acq On : 8 Jan 2024 12:56 AM
 Operator : AIRLAB17:RAY
 Sample : ITO15-SIMSTD10.0
 Misc : WG1872080
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jan 08 14:45:23 2024
 Quant Method : O:\Forensics\Data\Airlab17\2024\01\0107T_I\TFS17_240107.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Mon Nov 06 10:21:07 2023
 Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab17\2024\01\0107T_I\r1737680.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
Internal Standards							
1) bromochloromethane	8.842	49	426000	10.000	ppbV	0.02	
Standard Area =	426000		Recovery =	100.00%			
43) 1,4-difluorobenzene	11.070	114	1124227	10.000	ppbV	0.01	
Standard Area =	1124227		Recovery =	100.00%			
67) chlorobenzene-D5	15.833	54	154777	10.000	ppbV	0.00	
Standard Area =	154777		Recovery =	100.00%			
System Monitoring Compounds							
47) 1,2-dichloroethane-D4	9.700	65	341719	8.795	ppbV	0.02	
Spiked Amount	10.000	Range 70 - 130	Recovery =	87.95%			
69) toluene-D8	13.925	98	1144713	8.781	ppbV	0.00	
Spiked Amount	10.000	Range 70 - 130	Recovery =	87.81%			
90) bromofluorobenzene	17.217	95	707767	8.514	ppbV	0.00	
Spiked Amount	10.000	Range 70 - 130	Recovery =	85.14%			
Target Compounds							
							Qvalue
2) chlorodifluoromethane	3.766	51	351791	8.915	ppbV		99
3) propylene	3.796	41	180244M6	8.586	ppbV		
4) propane	3.820	29	253415	8.581	ppbV		98
5) dichlorodifluoromethane	3.862	85	410820	9.593	ppbV		99
6) chloromethane	4.018	50	218422	9.307	ppbV		99
7) Freon-114	4.120	85	503523	9.316	ppbV		99
8) methanol	4.168	31	523989	43.631	ppbV		96
9) vinyl chloride	4.234	62	224992	9.130	ppbV		100
10) 1,3-butadiene	4.372	54	192288	8.984	ppbV		95
11) butane	4.426	43	314974	8.959	ppbV		99
12) acetaldehyde	4.132	29	732941	51.053	ppbV		93
13) bromomethane	4.642	94	185533	8.968	ppbV		98
14) chloroethane	4.822	64	102452	9.049	ppbV		99
15) ethanol	4.930	31	935243	47.806	ppbV		97
16) dichlorofluoromethane	4.924	67	356144	8.799	ppbV		100
17) vinyl bromide	5.183	106	176356	9.010	ppbV		99
18) acrolein	5.303	56	99215	8.302	ppbV		96
19) acetone	5.433	43	1227539	49.417	ppbV		94
20) acetonitrile	5.157	41	171953	8.657	ppbV		100
21) trichlorofluoromethane	5.630	101	324386	9.899	ppbV		99
22) isopropyl alcohol	5.700	45	850771	23.058	ppbV		99
23) acrylonitrile	5.940	53	187552	8.664	ppbV		99
24) pentane	6.020	43	370109	8.785	ppbV		98

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab17\2024\01\0107T_I\
 Data File : r1737680.D
 Acq On : 8 Jan 2024 12:56 AM
 Operator : AIRLAB17:RAY
 Sample : ITO15-SIMSTD10.0
 Misc : WG1872080
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jan 08 14:45:23 2024
 Quant Method : O:\Forensics\Data\Airlab17\2024\01\0107T_I\TFS17_240107.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Mon Nov 06 10:21:07 2023
 Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab17\2024\01\0107T_I\r1737680.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) ethyl ether	6.040	31	370508	8.868	ppbV	99
26) 1,1-dichloroethene	6.312	61	289677	9.330	ppbV	97
27) tertiary butyl alcohol	6.348	59	383949	9.267	ppbV	99
28) methylene chloride	6.450	49	270880	8.250	ppbV	90
29) 3-chloropropene	6.582	41	318308	9.240	ppbV	99
30) carbon disulfide	6.744	76	739507	10.331	ppbV	99
31) Freon 113	6.750	101	421596	9.320	ppbV	100
32) trans-1,2-dichloroethene	7.492	61	304681	8.880	ppbV	100
33) 1,1-dichloroethane	7.708	63	385736	9.037	ppbV	100
34) MTBE	7.775	73	562763	9.352	ppbV	99
35) vinyl acetate	7.892	43	526421	9.617	ppbV	100
36) 2-butanone	8.150	43	528670	9.399	ppbV	99
37) cis-1,2-dichloroethene	8.650	61	287610	8.979	ppbV	99
38) Ethyl Acetate	8.925	61	73176	9.118	ppbV	97
39) chloroform	8.992	83	404595	9.033	ppbV	99
40) Tetrahydrofuran	9.417	42	303638	9.164	ppbV	99
41) 2,2-dichloropropane	9.017	77	307312	9.136	ppbV	97
42) 1,2-dichloroethane	9.825	62	224939	8.670	ppbV	98
44) hexane	8.908	57	365830	8.848	ppbV	94
45) diisopropyl ether	8.908	87	186671	8.582	ppbV	99
46) tert-butyl ethyl ether	9.517	59	627175	8.776	ppbV	98
48) 1,1,1-trichloroethane	10.117	97	321725	9.249	ppbV	99
49) 1,1-dichloropropene	10.483	75	341214	8.890	ppbV	98
50) benzene	10.643	78	844767	9.314	ppbV	99
51) thiophene	10.790		0	N.D.		
52) carbon tetrachloride	10.817	117	314896	9.900	ppbV	99
53) cyclohexane	10.963	56	391510	8.872	ppbV	97
54) tert-amyl methyl ether	11.343	73	637203	8.894	ppbV	98
55) dibromomethane	11.557	93	214575	8.670	ppbV	98
56) 1,2-dichloropropane	11.590	63	261508	8.986	ppbV	100
57) bromodichloromethane	11.823	83	400181	9.716	ppbV	99
58) 1,4-dioxane	11.857	88	162415	9.013	ppbV	99
59) trichloroethene	11.877	130	321505	8.858	ppbV	98
60) 2,2,4-trimethylpentane	11.930	57	1170770	8.950	ppbV	98
61) methyl methacrylate	12.123	41	284025	9.215	ppbV	98
62) heptane	12.250	43	530706	9.262	ppbV	99
63) cis-1,3-dichloropropene	12.892	75	432132	9.917	ppbV	99
64) 4-methyl-2-pentanone	12.925	43	640451	9.494	ppbV	99
65) trans-1,3-dichloropropene	13.517	75	342771	9.779	ppbV	98
66) 1,1,2-trichloroethane	13.717	97	291037	9.034	ppbV	98

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab17\2024\01\0107T_I\
 Data File : r1737680.D
 Acq On : 8 Jan 2024 12:56 AM
 Operator : AIRLAB17:RAY
 Sample : ITO15-SIMSTD10.0
 Misc : WG1872080
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jan 08 14:45:23 2024
 Quant Method : O:\Forensics\Data\Airlab17\2024\01\0107T_I\TFS17_240107.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Mon Nov 06 10:21:07 2023
 Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab17\2024\01\0107T_I\r1737680.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68) toluene	14.042	91	866431	9.288	ppbV	99
70) 2-methylthiophene	14.117		0	N.D.		
71) 1,3-dichloropropane	14.067	76	417308	8.919	ppbV	94
72) 2-hexanone	14.333	43	596544	9.616	ppbV	99
73) 3-methylthiophene	14.308		0	N.D.		
74) dibromochloromethane	14.500	129	381003	10.072	ppbV	95
75) 1,2-dibromoethane	14.750	107	451585	9.228	ppbV	100
76) butyl acetate	15.008	73	100825	9.339	ppbV	96
77) octane	15.100	85	295190	8.498	ppbV	97
78) tetrachloroethene	15.225	166	345662	9.015	ppbV	95
79) 1,1,1,2-tetrachloroethane	15.858	131	293296	9.054	ppbV	99
80) chlorobenzene	15.875	112	747797	8.966	ppbV	98
81) ethylbenzene	16.233	91	1113924	9.338	ppbV	95
82) 2-ethylthiophene	16.267		0	N.D.		
83) m+p-xylene	16.400	91	1763206	18.574	ppbV	98
84) bromoform	16.458	173	301854	10.837	ppbV	99
85) styrene	16.717	104	766731	9.219	ppbV	99
86) 1,1,2,2-tetrachloroethane	16.808	83	661664	8.977	ppbV	99
87) o-xylene	16.817	91	879554	9.246	ppbV	99
88) 1,2,3-trichloropropane	16.925	75	494910	8.659	ppbV	98
89) nonane	17.025	43	805173	8.936	ppbV	96
91) isopropylbenzene	17.333	105	1109234	8.466	ppbV	99
92) bromobenzene	17.408	77	638440	8.525	ppbV	97
93) 2-chlorotoluene	17.733	126	323157	8.358	ppbV	90
94) n-propylbenzene	17.767	120	348579	8.086	ppbV	87
95) 4-chlorotoluene	17.800	126	313109	8.282	ppbV	97
96) 4-ethyl toluene	17.892	105	1194720	8.795	ppbV	98
97) 1,3,5-trimethylbenzene	17.958	105	1037532	8.824	ppbV	99
98) tert-butylbenzene	18.300	119	988035	8.484	ppbV	99
99) 1,2,4-trimethylbenzene	18.300	105	1047825	9.062	ppbV	95
100) decane	18.383	57	744030	8.405	ppbV	97
101) Benzyl Chloride	18.417	91	593417	10.725	ppbV	98
102) 1,3-dichlorobenzene	18.433	146	634611	8.723	ppbV	98
103) 1,4-dichlorobenzene	18.492	146	630131	8.737	ppbV	98
104) sec-butylbenzene	18.525	105	1390216	8.391	ppbV	97
105) 1,2,3-trimethylbenzene	18.658	105	944642	8.982	ppbV	97
106) p-isopropyltoluene	18.658	119	1190028	8.470	ppbV	100
107) 1,2-dichlorobenzene	18.775	146	597043	8.593	ppbV	99
108) n-butylbenzene	19.025	91	1011028	8.387	ppbV	96
109) indan	18.833	117	971418	8.562	ppbV	98

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab17\2024\01\0107T_I\
 Data File : r1737680.D
 Acq On : 8 Jan 2024 12:56 AM
 Operator : AIRLAB17:RAY
 Sample : ITO15-SIMSTD10.0
 Misc : WG1872080
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jan 08 14:45:23 2024
 Quant Method : O:\Forensics\Data\Airlab17\2024\01\0107T_I\TFS17_240107.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Mon Nov 06 10:21:07 2023
 Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab17\2024\01\0107T_I\r1737680.D
 Sub List : Default - All compounds listed

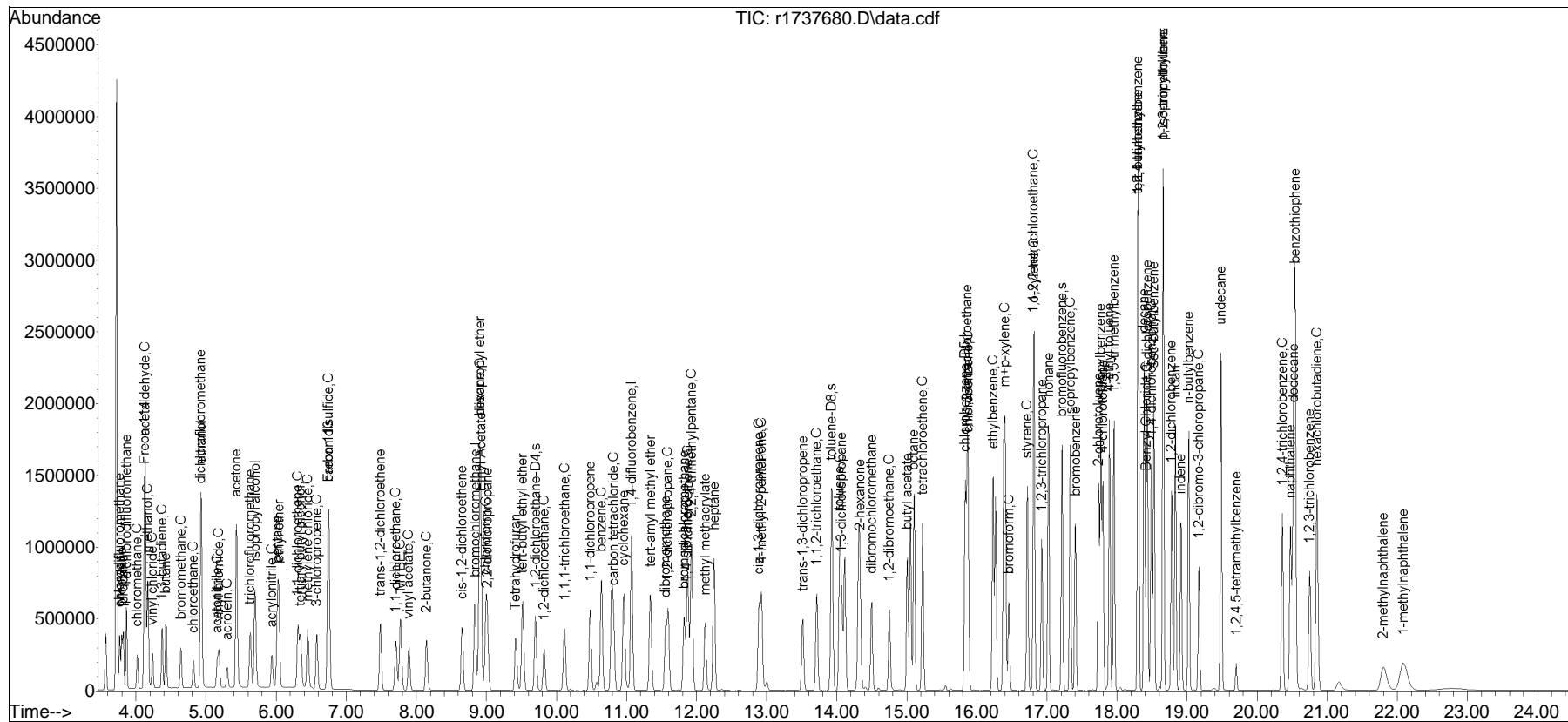
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
110) indene	18.908	115	644762	8.459	ppbV	98
111) 1,2-dibromo-3-chloropr...	19.167	75	239038	9.503	ppbV	98
112) undecane	19.483	57	797286	8.342	ppbV	96
113) 1,2,4,5-tetramethylben...	19.700	119	101158	5.148	ppbV	98
114) dodecane	20.517	57	793437	8.690	ppbV	92
115) 1,2,4-trichlorobenzene	20.358	180	424480	8.663	ppbV	97
116) naphthalene	20.475	128	1020202	7.303	ppbV	99
117) 1,2,3-trichlorobenzene	20.750	180	321495	7.409	ppbV	99
118) benzothiophene	20.542	134	2101377	9.348	ppbV	99
119) hexachlorobutadiene	20.850	225	394885	8.916	ppbV	96
120) 2-methylnaphthalene	21.800	142	319753	7.855	ppbV	100
121) 1-methylnaphthalene	22.083	142	462005	11.097	ppbV	99

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

Sub List : Default - All compounds listed4\01\0107T_I\r1737680.D

Data Path : O:\Forensics\Data\Airlab17\2024\01\0107T_I\
Data File : r1737680.D
Acq On : 8 Jan 2024 12:56 AM
Operator : AIRLAB17:RAY
Sample : ITO15-SIMSTD10.0
Misc : WG1872080
ALS Vial : 0 Sample Multiplier: 1

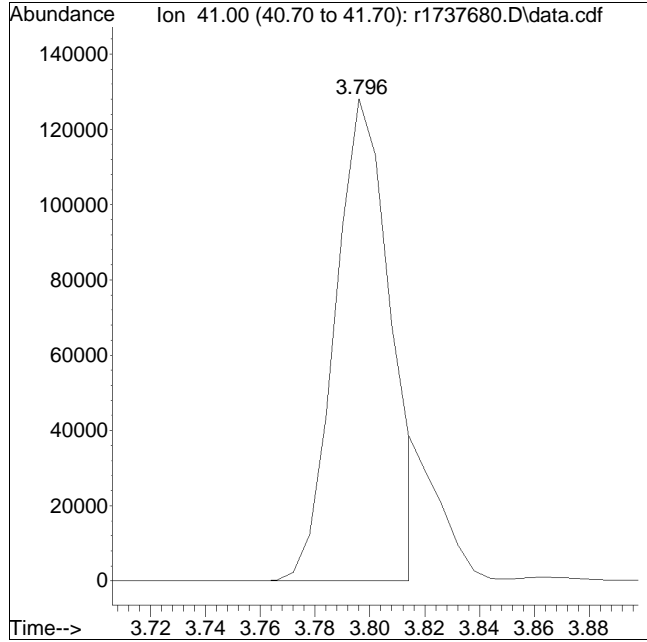
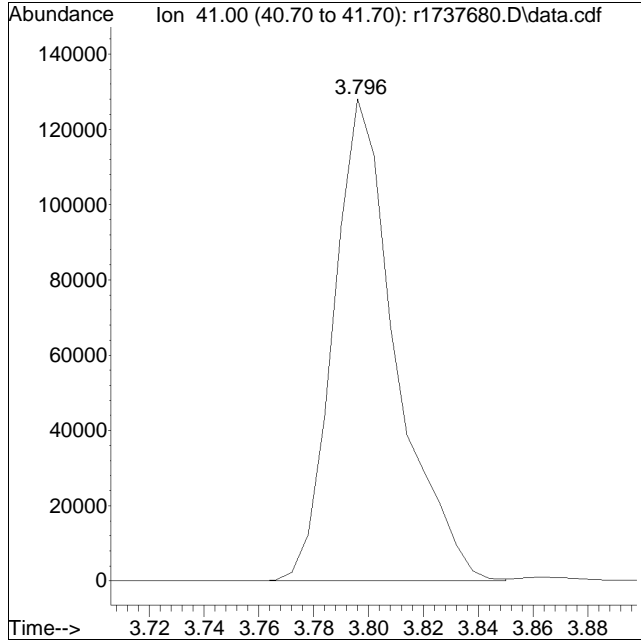
Quant Time: Jan 08 14:45:23 2024
Quant Method : O:\Forensics\Data\Airlab17\2024\01\0107T_I\TFS17_240107.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Mon Nov 06 10:21:07 2023
Response via : Initial Calibration



Manual Integration Report

Data Path : O:\Forensics\Data\Airlab17QMethod : TFS17_240107.M
Data File : r1737680.D Operator : AIRLAB17:RAY
Date Inj'd : 1/8/2020 0:2:6 Instrument :
Sample : ITO15-SIMSTD10.0 Quant Date : 1/8/2024 2:45 pm

Compound #3: propylene



Original Peak Response = 203134

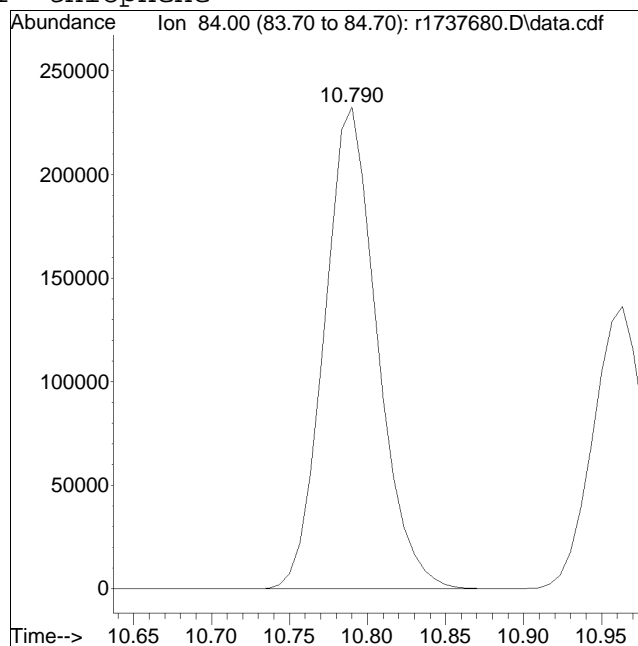
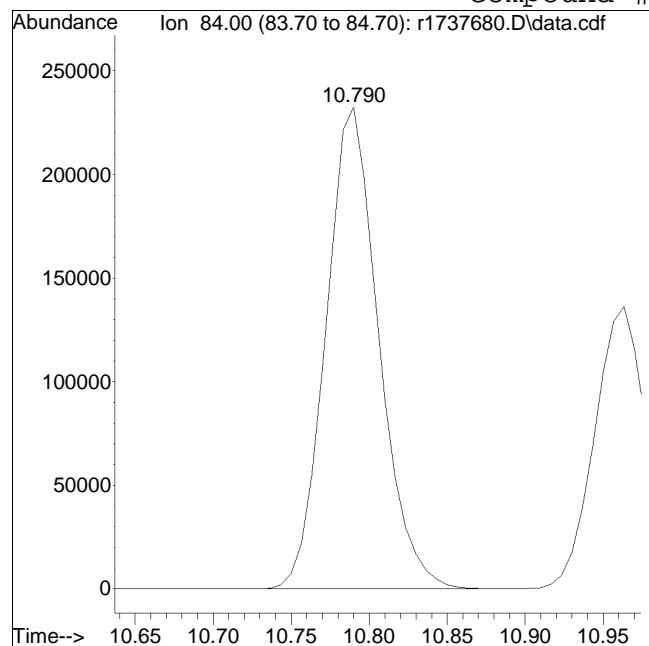
Manual Peak Response = 180244 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

Data Path : O:\Forensics\Data\Airlab17QMethod : TFS17_240107.M
Data File : r1737680.D Operator : AIRLAB17:RAY
Date Inj'd : 1/8/2020 0:2:6 Instrument :
Sample : ITO15-SIMSTD10.0 Quant Date : 1/8/2024 2:45 pm

Compound #51: thiophene



Original Peak Response = 546959

Manual Peak Response = 546721 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab17\2024\01\0107T_I\
 Data File : r1737681.D
 Acq On : 8 Jan 2024 1:35 AM
 Operator : AIRLAB17:RAY
 Sample : ITO15-SIMSTD20
 Misc : WG1872080
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jan 08 14:49:10 2024
 Quant Method : O:\Forensics\Data\Airlab17\2024\01\0107T_I\TFS17_240107.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Mon Jan 08 14:48:09 2024
 Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab17\2024\01\0107T_I\r1737680.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
Internal Standards							
1) bromochloromethane	8.833	49	434811	10.000	ppbV	0.00	
Standard Area =	426000		Recovery =	102.07%			
43) 1,4-difluorobenzene	11.063	114	1138671	10.000	ppbV	0.00	
Standard Area =	1124227		Recovery =	101.28%			
67) chlorobenzene-D5	15.825	54	155430	10.000	ppbV	0.00	
Standard Area =	154777		Recovery =	100.42%			
System Monitoring Compounds							
47) 1,2-dichloroethane-D4	9.692	65	341034	9.853	ppbV	0.00	
Spiked Amount	10.000	Range 70 - 130	Recovery =	98.53%			
69) toluene-D8	13.925	98	1153931	10.038	ppbV	0.00	
Spiked Amount	10.000	Range 70 - 130	Recovery =	100.38%			
90) bromofluorobenzene	17.208	95	718949	10.115	ppbV	0.00	
Spiked Amount	10.000	Range 70 - 130	Recovery =	101.15%			
Target Compounds							
							Qvalue
2) chlorodifluoromethane	3.766	51	735976	20.497	ppbV	99	
3) propylene	3.796	41	363527M6	19.760	ppbV		
4) propane	3.820	29	540844	20.910	ppbV	99	
5) dichlorodifluoromethane	3.862	85	806242	19.228	ppbV	99	
6) chloromethane	4.018	50	429126	19.249	ppbV	100	
7) Freon-114	4.120	85	985252	19.171	ppbV	99	
8) methanol	4.168	31	1136948	106.291	ppbV	98	
9) vinyl chloride	4.234	62	444397	19.351	ppbV	99	
10) 1,3-butadiene	4.372	54	382004	19.464	ppbV	100	
11) butane	4.426	43	656508	20.421	ppbV	99	
12) acetaldehyde	4.132	29	1469518	98.217	ppbV	99	
13) bromomethane	4.636	94	367715	19.418	ppbV	99	
14) chloroethane	4.816	64	204657	19.571	ppbV	100	
15) ethanol	4.930	31	1849620	96.881	ppbV	100	
16) dichlorofluoromethane	4.924	67	752433	20.699	ppbV	100	
17) vinyl bromide	5.180	106	357858	19.881	ppbV	97	
18) acrolein	5.297	56	216188	21.348	ppbV	97	
19) acetone	5.430	43	2516266	100.415	ppbV	99	
20) acetonitrile	5.157	41	371624	21.174	ppbV	97	
21) trichlorofluoromethane	5.627	101	649958	19.631	ppbV	100	
22) isopropyl alcohol	5.697	45	1745507	50.253	ppbV	99	
23) acrylonitrile	5.937	53	402902	21.047	ppbV	99	
24) pentane	6.013	43	796733	21.091	ppbV	100	

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab17\2024\01\0107T_I\
 Data File : r1737681.D
 Acq On : 8 Jan 2024 1:35 AM
 Operator : AIRLAB17:RAY
 Sample : ITO15-SIMSTD20
 Misc : WG1872080
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jan 08 14:49:10 2024
 Quant Method : O:\Forensics\Data\Airlab17\2024\01\0107T_I\TFS17_240107.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Mon Jan 08 14:48:09 2024
 Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab17\2024\01\0107T_I\r1737680.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) ethyl ether	6.033	31	814858	21.547	ppbV	99
26) 1,1-dichloroethene	6.306	61	592260	20.031	ppbV	100
27) tertiary butyl alcohol	6.342	59	817684	20.865	ppbV #	92
28) methylene chloride	6.444	49	642789	23.249	ppbV	92
29) 3-chloropropene	6.576	41	645870	19.880	ppbV	99
30) carbon disulfide	6.738	76	1497991	19.846	ppbV	100
31) Freon 113	6.744	101	842103	19.569	ppbV	99
32) trans-1,2-dichloroethene	7.483	61	617356	19.852	ppbV	99
33) 1,1-dichloroethane	7.700	63	772266	19.615	ppbV	100
34) MTBE	7.767	73	1144458	19.924	ppbV	99
35) vinyl acetate	7.883	43	1100302	20.478	ppbV	99
36) 2-butanone	8.133	43	1070245	19.834	ppbV	99
37) cis-1,2-dichloroethene	8.650	61	577609	19.676	ppbV	99
38) Ethyl Acetate	8.917	61	149983	20.081	ppbV	97
39) chloroform	8.983	83	813451	19.698	ppbV	98
40) Tetrahydrofuran	9.408	42	616425	19.890	ppbV	99
41) 2,2-dichloropropane	9.008	77	654373	20.862	ppbV	99
42) 1,2-dichloroethane	9.817	62	447049	19.472	ppbV	100
44) hexane	8.900	57	748422	20.199	ppbV	98
45) diisopropyl ether	8.900	87	397771	21.038	ppbV	95
46) tert-butyl ethyl ether	9.508	59	1349015	21.237	ppbV	99
48) 1,1,1-trichloroethane	10.108	97	647270	19.864	ppbV	99
49) 1,1-dichloropropene	10.477	75	728766	21.087	ppbV	99
50) benzene	10.637	78	1679109	19.624	ppbV	100
51) thiophene	10.783	84	1272657	22.983	ppbV	99
52) carbon tetrachloride	10.810	117	639826	20.061	ppbV	100
53) cyclohexane	10.957	56	800764	20.194	ppbV	98
54) tert-amyl methyl ether	11.330	73	1366861	21.179	ppbV	99
55) dibromomethane	11.550	93	458994	21.120	ppbV	99
56) 1,2-dichloropropane	11.590	63	526916	19.894	ppbV	100
57) bromodichloromethane	11.817	83	822427	20.291	ppbV	98
58) 1,4-dioxane	11.850	88	334186	20.315	ppbV	99
59) trichloroethene	11.870	130	647672	19.889	ppbV	97
60) 2,2,4-trimethylpentane	11.923	57	2371690	20.001	ppbV	100
61) methyl methacrylate	12.117	41	587851	20.435	ppbV	100
62) heptane	12.243	43	1073656	19.974	ppbV	99
63) cis-1,3-dichloropropene	12.883	75	869187	19.859	ppbV	100
64) 4-methyl-2-pentanone	12.917	43	1301403	20.062	ppbV	100
65) trans-1,3-dichloropropene	13.508	75	696412	20.059	ppbV	99
66) 1,1,2-trichloroethane	13.708	97	579129	19.646	ppbV	99

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab17\2024\01\0107T_I\
 Data File : r1737681.D
 Acq On : 8 Jan 2024 1:35 AM
 Operator : AIRLAB17:RAY
 Sample : ITO15-SIMSTD20
 Misc : WG1872080
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jan 08 14:49:10 2024
 Quant Method : O:\Forensics\Data\Airlab17\2024\01\0107T_I\TFS17_240107.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Mon Jan 08 14:48:09 2024
 Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab17\2024\01\0107T_I\r1737680.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68) toluene	14.042	91	1723751	19.811	ppbV	98
70) 2-methylthiophene	14.108	97	1756043	23.074	ppbV	99
71) 1,3-dichloropropane	14.067	76	890325	21.245	ppbV	97
72) 2-hexanone	14.325	43	1230515	20.541	ppbV	98
73) 3-methylthiophene	14.308	97	1731400	23.258	ppbV	99
74) dibromochloromethane	14.492	129	796408	20.815	ppbV	98
75) 1,2-dibromoethane	14.750	107	902367	19.898	ppbV	100
76) butyl acetate	15.000	73	215597	21.293	ppbV	95
77) octane	15.100	85	634873	21.417	ppbV	99
78) tetrachloroethene	15.217	166	688580	19.837	ppbV	99
79) 1,1,1,2-tetrachloroethane	15.850	131	631506	21.441	ppbV	99
80) chlorobenzene	15.867	112	1481317	19.726	ppbV	99
81) ethylbenzene	16.225	91	2195106	19.623	ppbV	99
82) 2-ethylthiophene	16.258	97	1957672	22.839	ppbV	99
83) m+p-xylene	16.392	91	3451177	38.982	ppbV	100
84) bromoform	16.450	173	642832	21.207	ppbV	98
85) styrene	16.717	104	1503987	19.533	ppbV	96
86) 1,1,2,2-tetrachloroethane	16.808	83	1317796	19.833	ppbV	100
87) o-xylene	16.808	91	1729844	19.585	ppbV	99
88) 1,2,3-trichloropropane	16.925	75	1055707	21.242	ppbV	100
89) nonane	17.017	43	1664967	20.592	ppbV	96
91) isopropylbenzene	17.325	105	2343986	21.043	ppbV	99
92) bromobenzene	17.400	77	1360312	21.217	ppbV	94
93) 2-chlorotoluene	17.733	126	688440	21.214	ppbV	95
94) n-propylbenzene	17.767	120	753668	21.530	ppbV	97
95) 4-chlorotoluene	17.792	126	663059	21.088	ppbV	97
96) 4-ethyl toluene	17.892	105	2401016	20.012	ppbV	99
97) 1,3,5-trimethylbenzene	17.950	105	2030805	19.491	ppbV	100
98) tert-butylbenzene	18.292	119	2065863	20.821	ppbV	99
99) 1,2,4-trimethylbenzene	18.300	105	2028857	19.281	ppbV	98
100) decane	18.383	57	1576923	21.105	ppbV	96
101) Benzyl Chloride	18.417	91	1327146	22.271	ppbV	100
102) 1,3-dichlorobenzene	18.425	146	1251416	19.637	ppbV	97
103) 1,4-dichlorobenzene	18.483	146	1228613	19.416	ppbV	97
104) sec-butylbenzene	18.525	105	2901444	20.783	ppbV	99
105) 1,2,3-trimethylbenzene	18.658	105	1868741	19.699	ppbV	98
106) p-isopropyltoluene	18.658	119	2478755	20.742	ppbV	99
107) 1,2-dichlorobenzene	18.775	146	1181851	19.712	ppbV	98
108) n-butylbenzene	19.017	91	2155120	21.227	ppbV	97
109) indan	18.825	117	1976281	20.259	ppbV	99

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab17\2024\01\0107T_I\
 Data File : r1737681.D
 Acq On : 8 Jan 2024 1:35 AM
 Operator : AIRLAB17:RAY
 Sample : ITO15-SIMSTD20
 Misc : WG1872080
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jan 08 14:49:10 2024
 Quant Method : O:\Forensics\Data\Airlab17\2024\01\0107T_I\TFS17_240107.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Mon Jan 08 14:48:09 2024
 Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab17\2024\01\0107T_I\r1737680.D
 Sub List : Default - All compounds listed

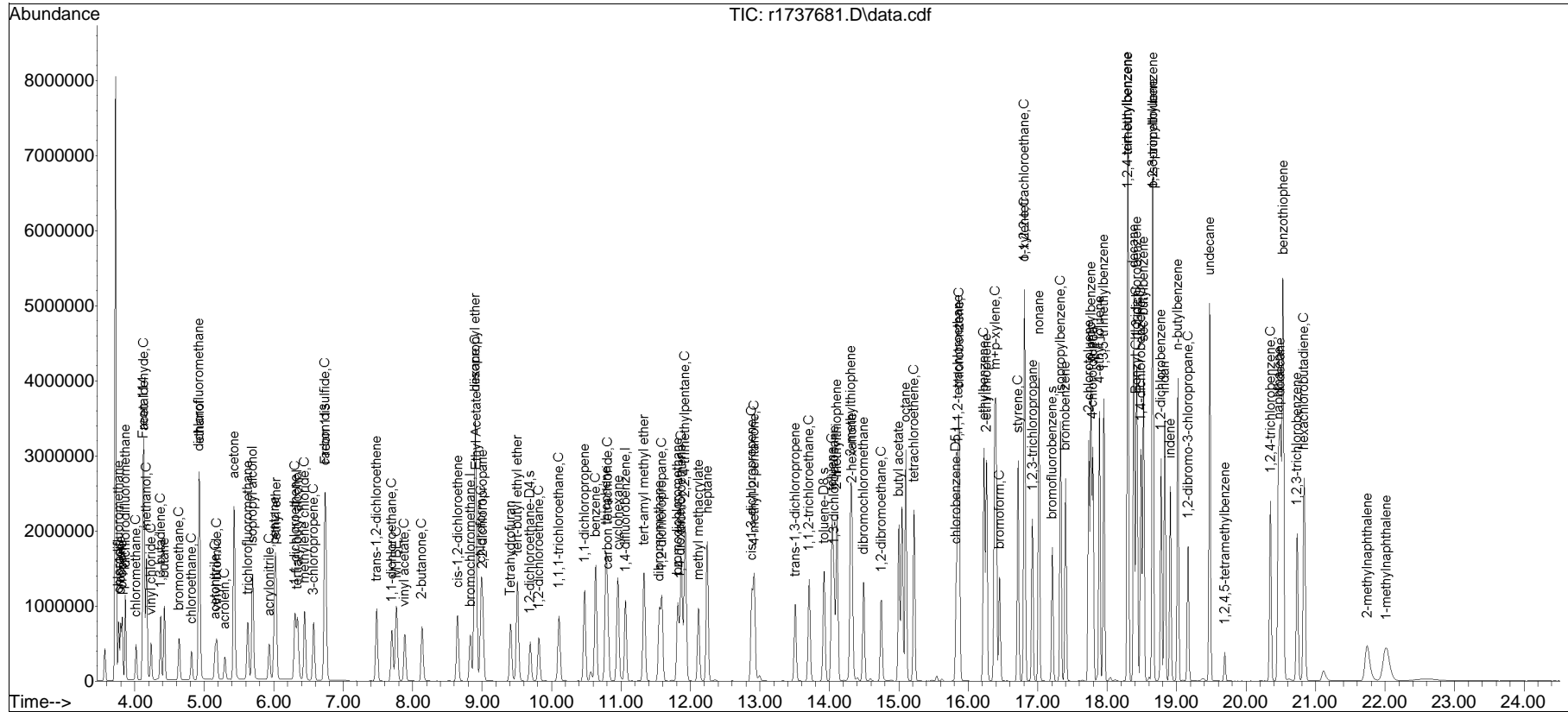
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
110) indene	18.908	115	1346846	20.801	ppbV	98
111) 1,2-dibromo-3-chloropr...	19.167	75	537609	22.396	ppbV	98
112) undecane	19.475	57	1702719	21.267	ppbV	97
113) 1,2,4,5-tetramethylben...	19.692	119	205992	20.278	ppbV	100
114) dodecane	20.492	57	1679034	21.073	ppbV	99
115) 1,2,4-trichlorobenzene	20.350	180	827531	19.413	ppbV	98
116) naphthalene	20.467	128	2297692	22.427	ppbV	100
117) 1,2,3-trichlorobenzene	20.733	180	717004	22.208	ppbV	100
118) benzothiophene	20.533	134	4548321	21.554	ppbV	99
119) hexachlorobutadiene	20.833	225	734036	18.511	ppbV	99
120) 2-methylnaphthalene	21.742	142	743517	23.155	ppbV	99
121) 1-methylnaphthalene	22.017	142	910109	19.616	ppbV	98

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

Sub List : Default - All compounds listed4\01\0107T_I\r1737680.D

Data Path : O:\Forensics\Data\Airlab17\2024\01\0107T_I\
Data File : r1737681.D
Acq On : 8 Jan 2024 1:35 AM
Operator : AIRLAB17:RAY
Sample : ITO15-SIMSTD20
Misc : WG1872080
ALS Vial : 0 Sample Multiplier: 1

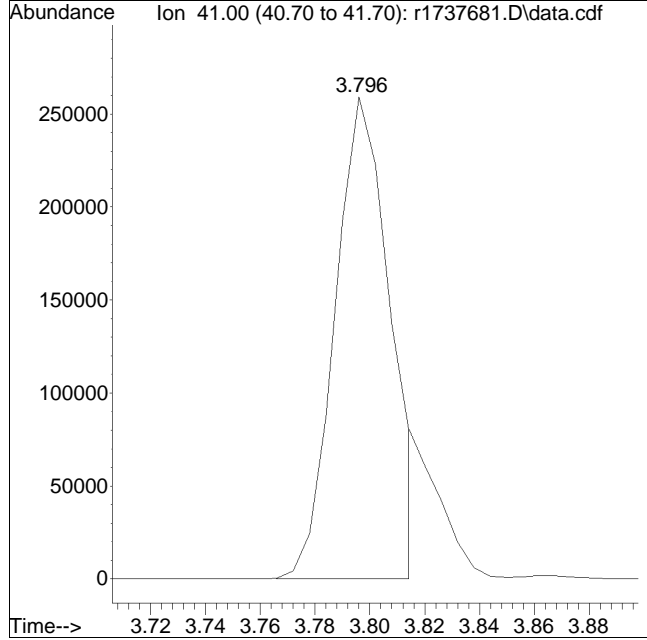
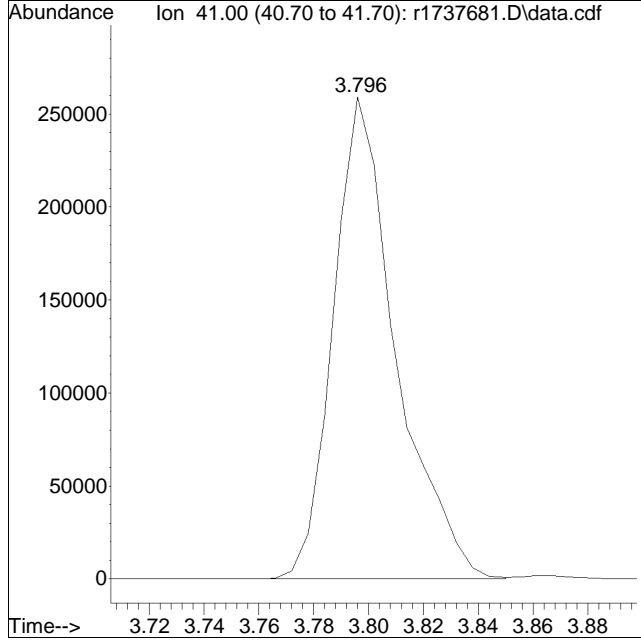
Quant Time: Jan 08 14:49:10 2024
Quant Method : O:\Forensics\Data\Airlab17\2024\01\0107T_I\TFS17_240107.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Mon Jan 08 14:48:09 2024
Response via : Initial Calibration



Manual Integration Report

Data Path : O:\Forensics\Data\Airlab17QMethod : TFS17_240107.M
Data File : r1737681.D Operator : AIRLAB17:RAY
Date Inj'd : 1/8/2020 0:1: 5 Instrument :
Sample : ITO15-SIMSTD20 Quant Date : 1/8/2024 2:49 pm

Compound #3: propylene



Original Peak Response = 410914

Manual Peak Response = 363527 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab17\2024\01\0107T_I\
 Data File : r1737682.D
 Acq On : 8 Jan 2024 2:14 AM
 Operator : AIRLAB17:RAY
 Sample : ITO15-SIMSTD50
 Misc : WG1872080
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jan 08 14:49:21 2024
 Quant Method : O:\Forensics\Data\Airlab17\2024\01\0107T_I\TFS17_240107.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Mon Jan 08 14:48:09 2024
 Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab17\2024\01\0107T_I\r1737680.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	8.833	49	429091	10.000	ppbV	0.00
Standard Area = 426000			Recovery = 100.73%			
43) 1,4-difluorobenzene	11.063	114	1101978	10.000	ppbV	0.00
Standard Area = 1124227			Recovery = 98.02%			
67) chlorobenzene-D5	15.825	54	153553	10.000	ppbV	0.00
Standard Area = 154777			Recovery = 99.21%			
System Monitoring Compounds						
47) 1,2-dichloroethane-D4	9.692	65	328839	9.817	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 98.17%			
69) toluene-D8	13.925	98	1111739	9.789	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 97.89%			
90) bromofluorobenzene	17.208	95	678969	9.670	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 96.70%			
Target Compounds						
						Qvalue
2) chlorodifluoromethane	3.766	51	1678081	47.357	ppbV	99
3) propylene	3.796	41	859425M6	47.338	ppbV	
4) propane	3.820	29	1264276	49.530	ppbV	98
5) dichlorodifluoromethane	3.862	85	1835661	44.361	ppbV	98
6) chloromethane	4.018	50	987623	44.891	ppbV	100
7) Freon-114	4.120	85	2169584	42.778	ppbV	97
8) methanol	4.168	31	2628951	249.052	ppbV	98
9) vinyl chloride	4.234	62	1030254	45.461	ppbV	99
10) 1,3-butadiene	4.372	54	866980	44.763	ppbV	98
11) butane	4.426	43	1477608	46.574	ppbV	99
12) acetaldehyde	4.132	29	3252946	220.312	ppbV	99
13) bromomethane	4.636	94	851019	45.538	ppbV	100
14) chloroethane	4.816	64	479326	46.448	ppbV	98
15) ethanol	4.936	31	4151061	220.326	ppbV	99
16) dichlorofluoromethane	4.918	67	1716948	47.862	ppbV	99
17) vinyl bromide	5.180	106	832109	46.844	ppbV	99
18) acrolein	5.297	56	507128	50.746	ppbV	96
19) acetone	5.427	43	5657962	228.799	ppbV	98
20) acetonitrile	5.157	41	859592	49.630	ppbV	97
21) trichlorofluoromethane	5.627	101	1483664	45.408	ppbV	99
22) isopropyl alcohol	5.700	45	3948821	115.201	ppbV	99
23) acrylonitrile	5.933	53	935766	49.534	ppbV	99
24) pentane	6.013	43	1808101	48.501	ppbV	98

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab17\2024\01\0107T_I\
 Data File : r1737682.D
 Acq On : 8 Jan 2024 2:14 AM
 Operator : AIRLAB17:RAY
 Sample : ITO15-SIMSTD50
 Misc : WG1872080
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jan 08 14:49:21 2024
 Quant Method : O:\Forensics\Data\Airlab17\2024\01\0107T_I\TFS17_240107.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Mon Jan 08 14:48:09 2024
 Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab17\2024\01\0107T_I\r1737680.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) ethyl ether	6.030	31	2107656	56.476	ppbV	98
26) 1,1-dichloroethene	6.306	61	1355485	46.456	ppbV	99
27) tertiary butyl alcohol	6.348	59	1921139	49.676	ppbV	99
28) methylene chloride	6.444	49	1462281	53.594	ppbV	92
29) 3-chloropropene	6.576	41	1475118	46.009	ppbV	99
30) carbon disulfide	6.738	76	3356085	45.056	ppbV	99
31) Freon 113	6.738	101	1902417	44.799	ppbV	97
32) trans-1,2-dichloroethene	7.483	61	1416192	46.146	ppbV	99
33) 1,1-dichloroethane	7.700	63	1769410	45.541	ppbV	100
34) MTBE	7.767	73	2647501	46.706	ppbV	99
35) vinyl acetate	7.892	43	2527055	47.659	ppbV	100
36) 2-butanone	8.133	43	2601639	48.857	ppbV	98
37) cis-1,2-dichloroethene	8.650	61	1320752	45.591	ppbV	98
38) Ethyl Acetate	8.917	61	359097	48.720	ppbV	79
39) chloroform	8.992	83	1860772	45.660	ppbV	99
40) Tetrahydrofuran	9.408	42	1427634	46.679	ppbV	100
41) 2,2-dichloropropane	9.008	77	1500518	48.475	ppbV	99
42) 1,2-dichloroethane	9.817	62	1024880	45.234	ppbV	99
44) hexane	8.900	57	1718006	47.910	ppbV	87
45) diisopropyl ether	8.900	87	937532	51.238	ppbV	79
46) tert-butyl ethyl ether	9.508	59	3121533	50.776	ppbV	99
48) 1,1,1-trichloroethane	10.108	97	1612405	51.129	ppbV	100
49) 1,1-dichloropropene	10.477	75	1650418	49.346	ppbV	99
50) benzene	10.637	78	3817306	46.100	ppbV	99
51) thiophene	10.783	84	2928899	54.654	ppbV	99
52) carbon tetrachloride	10.810	117	1484235	48.086	ppbV	99
53) cyclohexane	10.950	56	1846632	48.119	ppbV	99
54) tert-amyl methyl ether	11.330	73	3119066	49.938	ppbV	99
55) dibromomethane	11.550	93	1047753	49.815	ppbV	98
56) 1,2-dichloropropane	11.590	63	1202578	46.915	ppbV	99
57) bromodichloromethane	11.817	83	1914830	48.815	ppbV	98
58) 1,4-dioxane	11.843	88	778329	48.890	ppbV	100
59) trichloroethene	11.870	130	1491097	47.315	ppbV	98
60) 2,2,4-trimethylpentane	11.923	57	5427514	47.294	ppbV	99
61) methyl methacrylate	12.117	41	1370439	49.225	ppbV	100
62) heptane	12.237	43	2404120	46.215	ppbV	95
63) cis-1,3-dichloropropene	12.883	75	2011300	47.483	ppbV	99
64) 4-methyl-2-pentanone	12.917	43	2936741	46.780	ppbV	97
65) trans-1,3-dichloropropene	13.508	75	1619823	48.211	ppbV	100
66) 1,1,2-trichloroethane	13.708	97	1310894	45.952	ppbV	98

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab17\2024\01\0107T_I\
 Data File : r1737682.D
 Acq On : 8 Jan 2024 2:14 AM
 Operator : AIRLAB17:RAY
 Sample : ITO15-SIMSTD50
 Misc : WG1872080
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jan 08 14:49:21 2024
 Quant Method : O:\Forensics\Data\Airlab17\2024\01\0107T_I\TFS17_240107.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Mon Jan 08 14:48:09 2024
 Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab17\2024\01\0107T_I\r1737680.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68) toluene	14.042	91	3900558	45.378	ppbV	99
70) 2-methylthiophene	14.108	97	3930767	52.282	ppbV	100
71) 1,3-dichloropropane	14.067	76	2029741	49.027	ppbV	99
72) 2-hexanone	14.325	43	2772593	46.848	ppbV	95
73) 3-methylthiophene	14.308	97	3876618	52.712	ppbV	100
74) dibromochloromethane	14.492	129	1832928	48.491	ppbV	99
75) 1,2-dibromoethane	14.750	107	2036837	45.464	ppbV	99
76) butyl acetate	15.000	73	499941	49.980	ppbV	93
77) octane	15.100	85	1475323	50.377	ppbV	94
78) tetrachloroethene	15.217	166	1577226	45.993	ppbV	99
79) 1,1,1,2-tetrachloroethane	15.850	131	1449876	49.828	ppbV	100
80) chlorobenzene	15.867	112	3351843	45.180	ppbV	99
81) ethylbenzene	16.225	91	4998156	45.227	ppbV	99
82) 2-ethylthiophene	16.267	97	4336328	51.208	ppbV	97
83) m+p-xylene	16.392	91	7782011	88.975	ppbV	99
84) bromoform	16.450	173	1517567	50.676	ppbV	98
85) styrene	16.717	104	3384981	44.500	ppbV	95
86) 1,1,2,2-tetrachloroethane	16.808	83	3006409	45.799	ppbV	100
87) o-xylene	16.808	91	3891081	44.592	ppbV	100
88) 1,2,3-trichloropropane	16.925	75	2430898	49.510	ppbV	100
89) nonane	17.017	43	3628710	45.427	ppbV #	90
91) isopropylbenzene	17.325	105	5198097	47.236	ppbV	95
92) bromobenzene	17.400	77	3106026	49.038	ppbV	91
93) 2-chlorotoluene	17.733	126	1595894	49.778	ppbV	99
94) n-propylbenzene	17.767	120	1773877	51.294	ppbV	86
95) 4-chlorotoluene	17.792	126	1559941	50.218	ppbV	91
96) 4-ethyl toluene	17.892	105	5371737	45.321	ppbV	96
97) 1,3,5-trimethylbenzene	17.950	105	4512922	43.843	ppbV	94
98) tert-butylbenzene	18.300	119	4643394	47.371	ppbV	97
99) 1,2,4-trimethylbenzene	18.300	105	4481403	43.110	ppbV	95
100) decane	18.383	57	3638924	49.298	ppbV	90
101) Benzyl Chloride	18.417	91	3259492	55.365	ppbV	98
102) 1,3-dichlorobenzene	18.433	146	2880467	45.751	ppbV	98
103) 1,4-dichlorobenzene	18.483	146	2868883	45.891	ppbV	98
104) sec-butylbenzene	18.525	105	6519970	47.273	ppbV	95
105) 1,2,3-trimethylbenzene	18.658	105	4159702	44.386	ppbV	98
106) p-isopropyltoluene	18.658	119	5559231	47.088	ppbV	97
107) 1,2-dichlorobenzene	18.775	146	2709362	45.741	ppbV	97
108) n-butylbenzene	19.017	91	4985731	49.707	ppbV	95
109) indan	18.833	117	4533673	47.043	ppbV	98

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab17\2024\01\0107T_I\
 Data File : r1737682.D
 Acq On : 8 Jan 2024 2:14 AM
 Operator : AIRLAB17:RAY
 Sample : ITO15-SIMSTD50
 Misc : WG1872080
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jan 08 14:49:21 2024
 Quant Method : O:\Forensics\Data\Airlab17\2024\01\0107T_I\TFS17_240107.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Mon Jan 08 14:48:09 2024
 Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab17\2024\01\0107T_I\r1737680.D
 Sub List : Default - All compounds listed

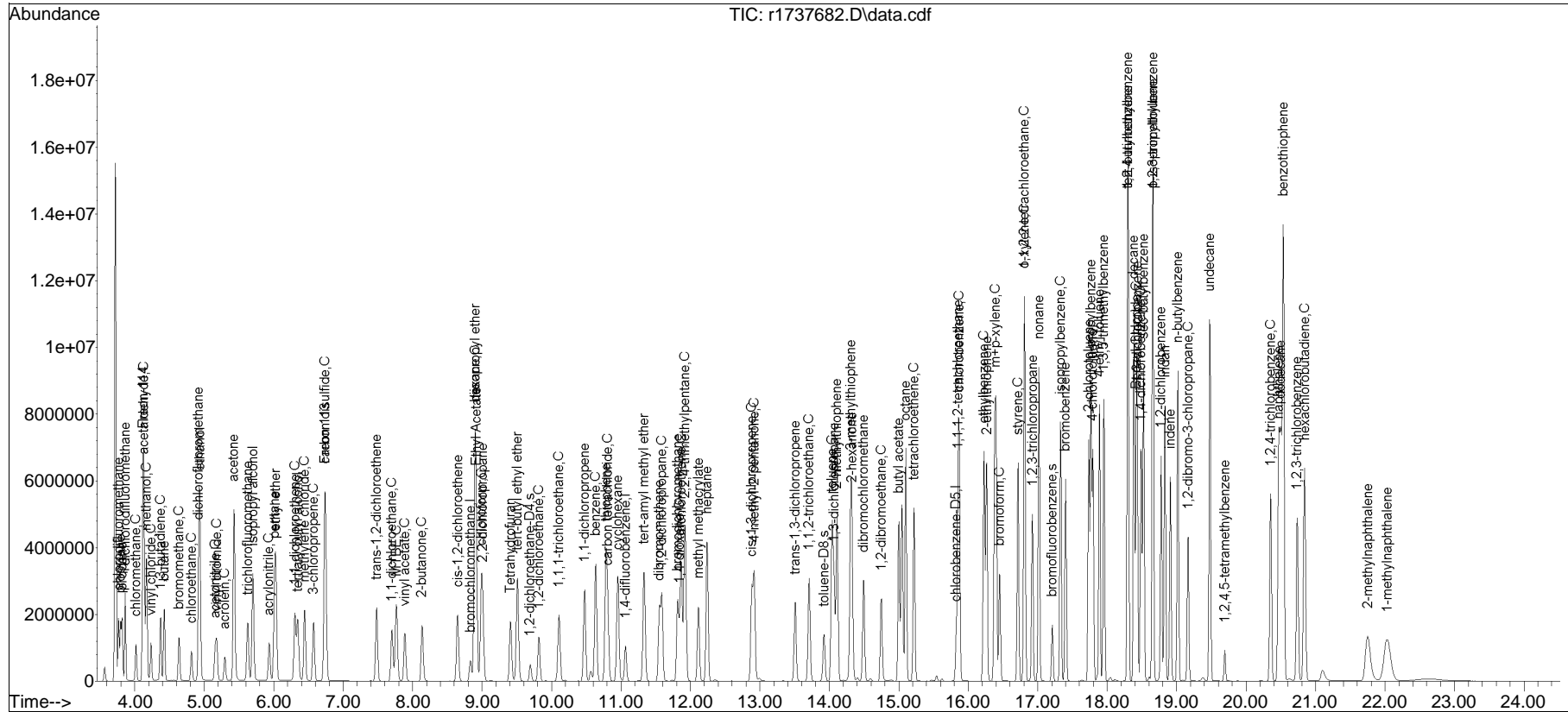
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
110) indene	18.908	115	3177803	49.679	ppbV	97
111) 1,2-dibromo-3-chloropr...	19.167	75	1307381	55.129	ppbV	98
112) undecane	19.475	57	3948678	49.921	ppbV	93
113) 1,2,4,5-tetramethylben...	19.692	119	498638	49.686	ppbV	98
114) dodecane	20.500	57	3962351	50.337	ppbV	92
115) 1,2,4-trichlorobenzene	20.350	180	2112431	50.162	ppbV	98
116) naphthalene	20.467	128	5818385	57.486	ppbV	100
117) 1,2,3-trichlorobenzene	20.733	180	1876040	58.819	ppbV	98
118) benzothiophene	20.533	134	11638971	55.829	ppbV	98
119) hexachlorobutadiene	20.842	225	1742648	44.482	ppbV	99
120) 2-methylnaphthalene	21.750	142	2197674	69.278	ppbV	96
121) 1-methylnaphthalene	22.033	142	2623826	57.245	ppbV	98

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

Sub List : Default - All compounds listed4\01\0107T_I\r1737680.D

Data Path : O:\Forensics\Data\Airlab17\2024\01\0107T_I\
Data File : r1737682.D
Acq On : 8 Jan 2024 2:14 AM
Operator : AIRLAB17:RAY
Sample : ITO15-SIMSTD50
Misc : WG1872080
ALS Vial : 0 Sample Multiplier: 1

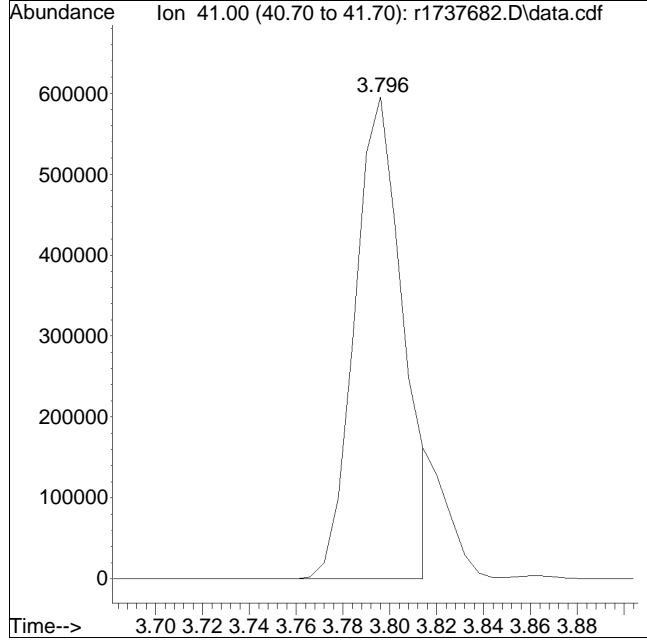
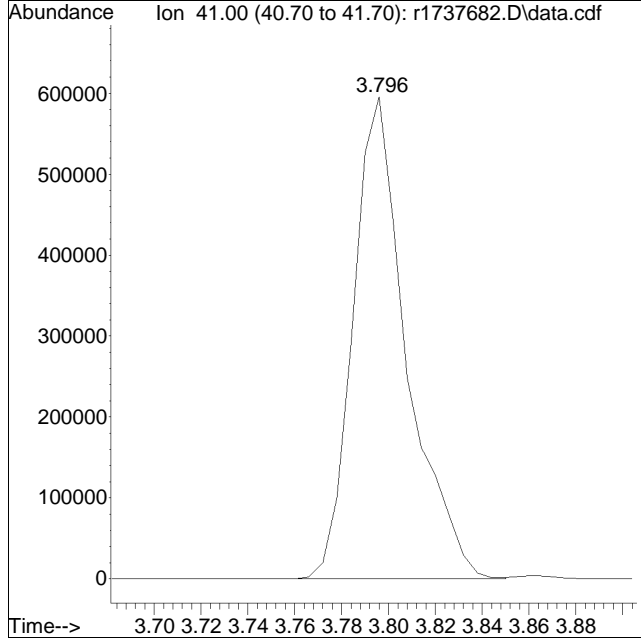
Quant Time: Jan 08 14:49:21 2024
Quant Method : O:\Forensics\Data\Airlab17\2024\01\0107T_I\TFS17_240107.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Mon Jan 08 14:48:09 2024
Response via : Initial Calibration



Manual Integration Report

Data Path : O:\Forensics\Data\Airlab17QMethod : TFS17_240107.M
Data File : r1737682.D Operator : AIRLAB17:RAY
Date Inj'd : 1/8/2020 0:2: 4 Instrument :
Sample : ITO15-SIMSTD50 Quant Date : 1/8/2024 2:49 pm

Compound #3: propylene



Original Peak Response = 948087

Manual Peak Response = 859425 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab17\2024\01\0107T_I\
 Data File : r1737683.D
 Acq On : 8 Jan 2024 2:55 AM
 Operator : AIRLAB17:RAY
 Sample : ITO15-LLSTD100
 Misc : WG1872080
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jan 08 14:49:34 2024
 Quant Method : O:\Forensics\Data\Airlab17\2024\01\0107T_I\TFS17_240107.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Mon Jan 08 14:48:09 2024
 Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab17\2024\01\0107T_I\r1737680.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
Internal Standards							
1) bromochloromethane	8.833	49	425403	10.000	ppbV	0.00	
Standard Area =	426000		Recovery =	99.86%			
43) 1,4-difluorobenzene	11.063	114	1072129	10.000	ppbV	0.00	
Standard Area =	1124227		Recovery =	95.37%			
67) chlorobenzene-D5	15.825	54	154296	10.000	ppbV	0.00	
Standard Area =	154777		Recovery =	99.69%			
System Monitoring Compounds							
47) 1,2-dichloroethane-D4	9.700	65	319298	9.798	ppbV	0.00	
Spiked Amount	10.000	Range 70 - 130	Recovery =	97.98%			
69) toluene-D8	13.925	98	1096230	9.606	ppbV	0.00	
Spiked Amount	10.000	Range 70 - 130	Recovery =	96.06%			
90) bromofluorobenzene	17.208	95	689269	9.769	ppbV	0.00	
Spiked Amount	10.000	Range 70 - 130	Recovery =	97.69%			
Target Compounds							
							Qvalue
2) chlorodifluoromethane	3.766	51	3109919	88.527	ppbV	99	
3) propylene	3.796	41	1566296M6	87.021	ppbV		
4) propane	3.820	29	2392796	94.555	ppbV	97	
5) dichlorodifluoromethane	3.862	85	3207149	78.177	ppbV	98	
6) chloromethane	4.018	50	1805166	82.762	ppbV	100	
7) Freon-114	4.114	85	3807266	75.719	ppbV	96	
8) methanol	4.168	31	4928716	470.967	ppbV	97	
9) vinyl chloride	4.234	62	1965775	87.493	ppbV	100	
10) 1,3-butadiene	4.372	54	1585642	82.578	ppbV	94	
11) butane	4.426	43	2730859	86.823	ppbV	97	
12) acetaldehyde	4.132	29	5451049	372.383	ppbV	94	
13) bromomethane	4.636	94	1575329	85.027	ppbV	100	
14) chloroethane	4.816	64	913799	89.318	ppbV	98	
15) ethanol	4.942	31	7374358	394.802	ppbV	99	
16) dichlorofluoromethane	4.924	67	3138375	88.245	ppbV	99	
17) vinyl bromide	5.180	106	1530314	86.896	ppbV	98	
18) acrolein	5.297	56	963448	97.243	ppbV	97	
19) acetone	5.433	43	9990045	407.485	ppbV	98	
20) acetonitrile	5.160	41	1610043	93.764	ppbV	97	
21) trichlorofluoromethane	5.627	101	2766975	85.419	ppbV	99	
22) isopropyl alcohol	5.707	45	7107817	209.157	ppbV	98	
23) acrylonitrile	5.940	53	1759974	93.971	ppbV	100	
24) pentane	6.013	43	3505887	94.859	ppbV	98	

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab17\2024\01\0107T_I\
 Data File : r1737683.D
 Acq On : 8 Jan 2024 2:55 AM
 Operator : AIRLAB17:RAY
 Sample : ITO15-LLSTD100
 Misc : WG1872080
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jan 08 14:49:34 2024
 Quant Method : O:\Forensics\Data\Airlab17\2024\01\0107T_I\TFS17_240107.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Mon Jan 08 14:48:09 2024
 Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab17\2024\01\0107T_I\r1737680.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) ethyl ether	6.033	31	4049047	109.437	ppbV	97
26) 1,1-dichloroethene	6.306	61	2560161	88.504	ppbV	99
27) tertiary butyl alcohol	6.354	59	3658338	95.416	ppbV	98
28) methylene chloride	6.450	49	2724007	100.703	ppbV	94
29) 3-chloropropene	6.576	41	2704881	85.096	ppbV	98
30) carbon disulfide	6.738	76	5936933	80.395	ppbV	99
31) Freon 113	6.744	101	3465181	82.307	ppbV	98
32) trans-1,2-dichloroethene	7.483	61	2642242	86.843	ppbV	99
33) 1,1-dichloroethane	7.700	63	3259899	84.630	ppbV	100
34) MTBE	7.767	73	4807797	85.552	ppbV	96
35) vinyl acetate	7.892	43	4582935	87.181	ppbV	98
36) 2-butanone	8.142	43	4496498	85.172	ppbV	97
37) cis-1,2-dichloroethene	8.650	61	2475368	86.188	ppbV	97
38) Ethyl Acetate	8.925	61	681530	93.266	ppbV #	45
39) chloroform	8.992	83	3428095	84.848	ppbV	99
40) Tetrahydrofuran	9.408	42	2621772	86.466	ppbV	98
41) 2,2-dichloropropane	9.008	77	2771061	90.297	ppbV	96
42) 1,2-dichloroethane	9.817	62	1915969	85.297	ppbV	99
44) hexane	8.900	57	3210632	92.028	ppbV #	67
45) diisopropyl ether	8.900	87	1790351	100.570	ppbV #	60
46) tert-butyl ethyl ether	9.508	59	5934689	99.224	ppbV	97
48) 1,1,1-trichloroethane	10.108	97	2970352	96.812	ppbV	99
49) 1,1-dichloropropene	10.477	75	3023500	92.916	ppbV	98
50) benzene	10.637	78	6982884	86.677	ppbV	97
51) thiophene	10.790	84	5487238	105.243	ppbV	96
52) carbon tetrachloride	10.810	117	2769318	92.217	ppbV	100
53) cyclohexane	10.957	56	3544449	94.932	ppbV	97
54) tert-amyl methyl ether	11.337	73	5791005	95.298	ppbV	98
55) dibromomethane	11.557	93	1968780	96.211	ppbV	99
56) 1,2-dichloropropane	11.590	63	2255941	90.459	ppbV	99
57) bromodichloromethane	11.817	83	3591950	94.120	ppbV	99
58) 1,4-dioxane	11.850	88	1485995	95.940	ppbV	99
59) trichloroethene	11.870	130	2819926	91.972	ppbV	95
60) 2,2,4-trimethylpentane	11.923	57	10109091	90.541	ppbV	99
61) methyl methacrylate	12.117	41	2546880	94.028	ppbV	99
62) heptane	12.243	43	4330797	85.570	ppbV	92
63) cis-1,3-dichloropropene	12.883	75	3696602	89.700	ppbV	99
64) 4-methyl-2-pentanone	12.917	43	5318033	87.071	ppbV	94
65) trans-1,3-dichloropropene	13.508	75	3030684	92.714	ppbV	99
66) 1,1,2-trichloroethane	13.708	97	2453866	88.412	ppbV	97

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab17\2024\01\0107T_I\
 Data File : r1737683.D
 Acq On : 8 Jan 2024 2:55 AM
 Operator : AIRLAB17:RAY
 Sample : ITO15-LLSTD100
 Misc : WG1872080
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jan 08 14:49:34 2024
 Quant Method : O:\Forensics\Data\Airlab17\2024\01\0107T_I\TFS17_240107.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Mon Jan 08 14:48:09 2024
 Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab17\2024\01\0107T_I\r1737680.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68) toluene	14.042	91	7261022	84.065	ppbV	99
70) 2-methylthiophene	14.117	97	7223271	95.611	ppbV	99
71) 1,3-dichloropropane	14.075	76	3710062	89.182	ppbV	99
72) 2-hexanone	14.333	43	5000229	84.081	ppbV	92
73) 3-methylthiophene	14.308	97	7130361	96.487	ppbV	99
74) dibromochloromethane	14.492	129	3493781	91.985	ppbV	99
75) 1,2-dibromoethane	14.750	107	3741688	83.115	ppbV	98
76) butyl acetate	15.000	73	935012	93.025	ppbV	84
77) octane	15.100	85	2786580	94.694	ppbV	84
78) tetrachloroethene	15.217	166	2915319	84.603	ppbV	99
79) 1,1,1,2-tetrachloroethane	15.858	131	2714355	92.835	ppbV	97
80) chlorobenzene	15.875	112	5988591	80.333	ppbV	99
81) ethylbenzene	16.225	91	9182591	82.692	ppbV	98
82) 2-ethylthiophene	16.267	97	7904204	92.892	ppbV	97
83) m+p-xylene	16.400	91	14235739	161.979	ppbV	96
84) bromoform	16.450	173	2899523	96.357	ppbV	99
85) styrene	16.717	104	6071529	79.434	ppbV	94
86) 1,1,2,2-tetrachloroethane	16.808	83	5317025	80.609	ppbV	100
87) o-xylene	16.817	91	7004558	79.886	ppbV	98
88) 1,2,3-trichloropropane	16.925	75	4465352	90.507	ppbV	98
89) nonane	17.017	43	6273956	78.164	ppbV #	81
91) isopropylbenzene	17.333	105	9164740	82.880	ppbV	92
92) bromobenzene	17.400	77	5630934	88.473	ppbV #	86
93) 2-chlorotoluene	17.733	126	3001494	93.170	ppbV	94
94) n-propylbenzene	17.767	120	3328257	95.778	ppbV	75
95) 4-chlorotoluene	17.792	126	2947973	94.445	ppbV	89
96) 4-ethyl toluene	17.892	105	9472445	79.533	ppbV #	89
97) 1,3,5-trimethylbenzene	17.950	105	8043185	77.764	ppbV	92
98) tert-butylbenzene	18.300	119	7946645	80.680	ppbV	93
99) 1,2,4-trimethylbenzene	18.300	105	7721600	73.921	ppbV	93
100) decane	18.383	57	6709917	90.465	ppbV	81
101) Benzyl Chloride	18.417	91	6234359	105.386	ppbV	94
102) 1,3-dichlorobenzene	18.433	146	5280545	83.469	ppbV	96
103) 1,4-dichlorobenzene	18.492	146	5264417	83.805	ppbV	97
104) sec-butylbenzene	18.525	105	11302913	81.557	ppbV #	90
105) 1,2,3-trimethylbenzene	18.658	105	7138638	75.805	ppbV	99
106) p-isopropyltoluene	18.658	119	9455856	79.707	ppbV	91
107) 1,2-dichlorobenzene	18.775	146	5069417	85.173	ppbV	98
108) n-butylbenzene	19.017	91	9153118	90.815	ppbV	91
109) indan	18.833	117	8214985	84.831	ppbV	99

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab17\2024\01\0107T_I\
 Data File : r1737683.D
 Acq On : 8 Jan 2024 2:55 AM
 Operator : AIRLAB17:RAY
 Sample : ITO15-LLSTD100
 Misc : WG1872080
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jan 08 14:49:34 2024
 Quant Method : O:\Forensics\Data\Airlab17\2024\01\0107T_I\TFS17_240107.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Mon Jan 08 14:48:09 2024
 Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab17\2024\01\0107T_I\r1737680.D
 Sub List : Default - All compounds listed

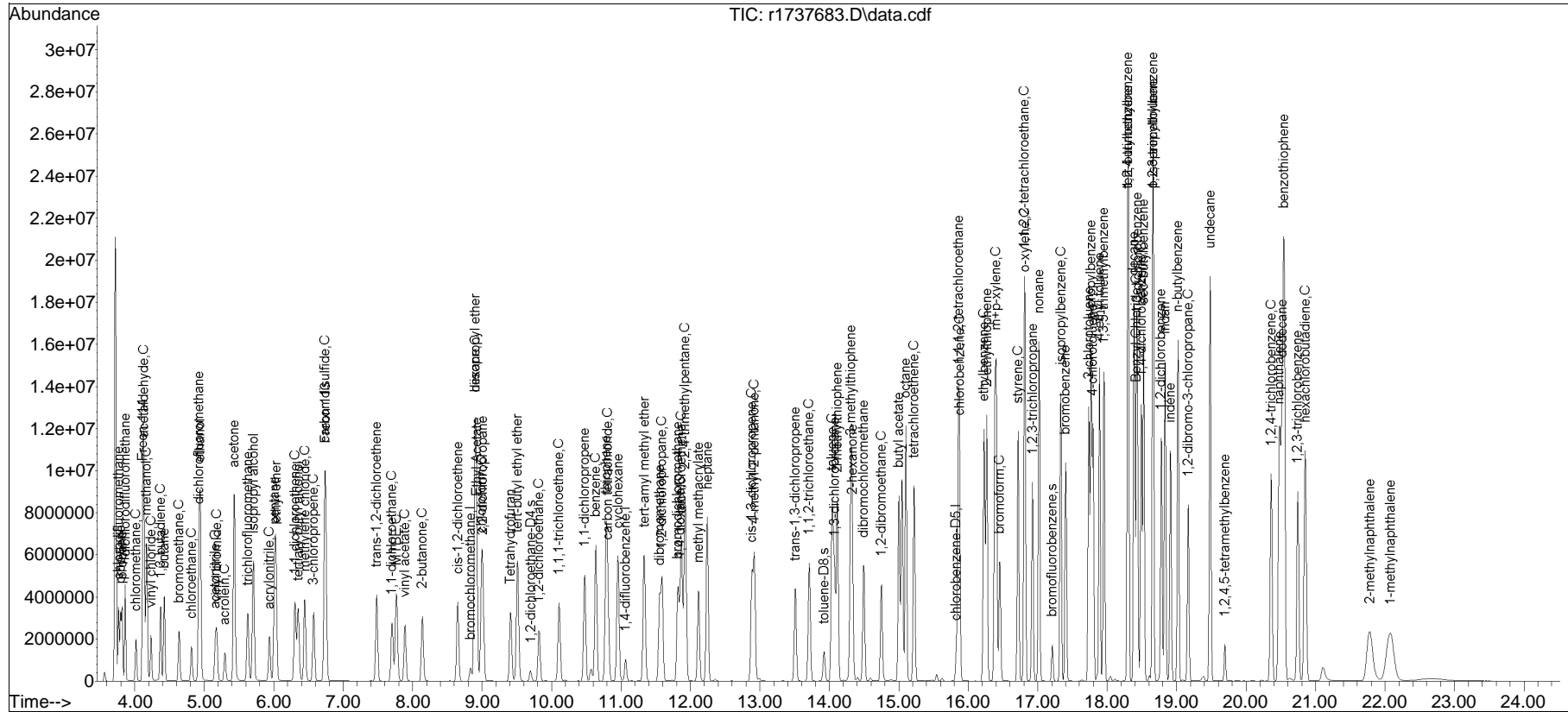
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
110) indene	18.908	115	5941083	92.431	ppbV	96
111) 1,2-dibromo-3-chloropr...	19.167	75	2401890	100.795	ppbV	93
112) undecane	19.483	57	7370092	92.728	ppbV	85
113) 1,2,4,5-tetramethylben...	19.692	119	974441	96.629	ppbV	98
114) dodecane	20.517	57	7333380	92.714	ppbV	84
115) 1,2,4-trichlorobenzene	20.358	180	4100180	96.894	ppbV	98
116) naphthalene	20.475	128	10991204	108.071	ppbV	100
117) 1,2,3-trichlorobenzene	20.742	180	3612071	112.703	ppbV	99
118) benzothiophene	20.542	134	19008220	90.738	ppbV #	93
119) hexachlorobutadiene	20.850	225	3288378	83.534	ppbV	98
120) 2-methylnaphthalene	21.783	142	4466088	140.108	ppbV	98
121) 1-methylnaphthalene	22.075	142	5275628	114.546	ppbV	95

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

Sub List : Default - All compounds listed4\01\0107T_I\r1737680.D

Data Path : O:\Forensics\Data\Airlab17\2024\01\0107T_I\
Data File : r1737683.D
Acq On : 8 Jan 2024 2:55 AM
Operator : AIRLAB17:RAY
Sample : ITO15-LLSTD100
Misc : WG1872080
ALS Vial : 0 Sample Multiplier: 1

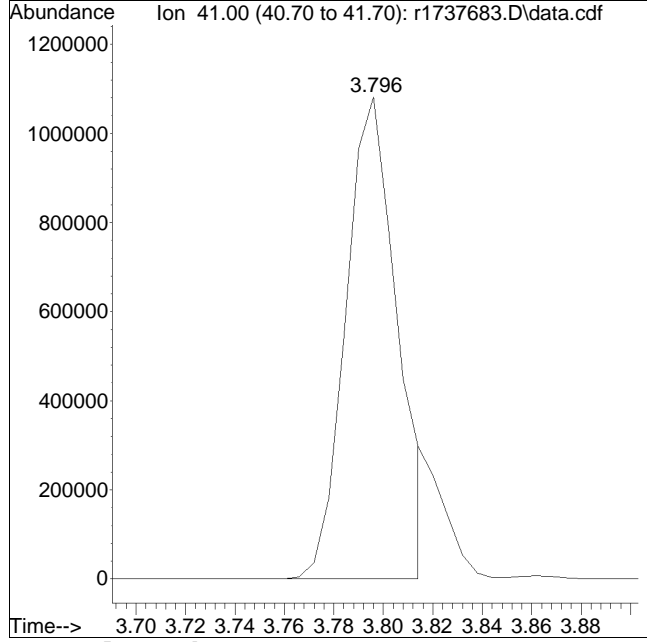
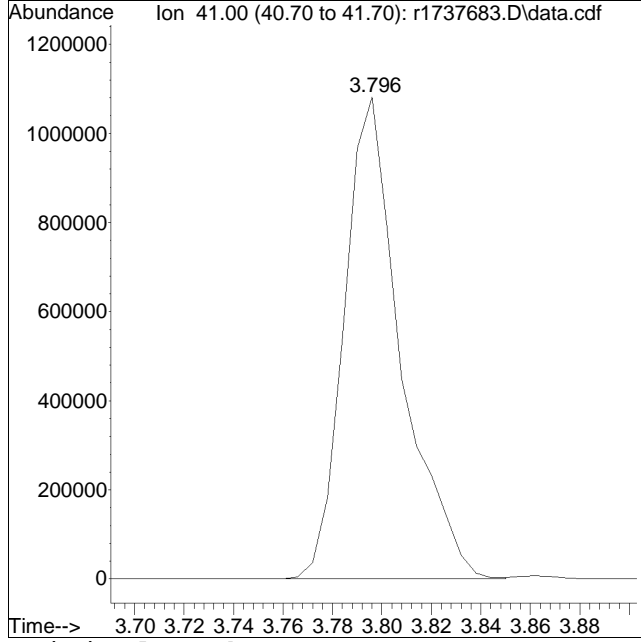
Quant Time: Jan 08 14:49:34 2024
Quant Method : O:\Forensics\Data\Airlab17\2024\01\0107T_I\TFS17_240107.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Mon Jan 08 14:48:09 2024
Response via : Initial Calibration



Manual Integration Report

Data Path : O:\Forensics\Data\Airlab17QMethod : TFS17_240107.M
Data File : r1737683.D Operator : AIRLAB17:RAY
Date Inj'd : 1/8/2020 0:2: 5 Instrument :
Sample : ITO15-LLSTD100 Quant Date : 1/8/2024 2:49 pm

Compound #3: propylene



Original Peak Response = 1728018

Manual Peak Response = 1566296 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Evaluate Continuing Calibration Report

Data Path : O:\Forensics\Data\Airlab17\2024\01\0107T_I\
 Data File : r1737686.D
 Acq On : 8 Jan 2024 1:00 PM
 Operator : AIRLAB17:RAY
 Sample : CTO15-LLSTD10.0
 Misc : WG1872080
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jan 08 15:05:16 2024
 Quant Method : O:\Forensics\Data\Airlab17\2024\01\0107T_I\TFS17_240107.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Mon Jan 08 15:04:31 2024
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
 Max. RRF Dev : 30% Max. Rel. Area : 140%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	bromochloromethane	1.000	1.000	0.0	95	-0.04
2	chlorodifluoromethane	0.844	0.803	4.9	92	-0.02
3	propylene	0.471	0.484	-2.8	108	-0.02
4	propane	0.624	0.625	-0.2	100	-0.02
5	dichlorodifluoromethane	0.948	0.899	5.2	88	-0.02
6 C	chloromethane	0.504	0.443	12.1	82	-0.02
7	Freon-114	1.154	1.203	-4.2	96	-0.02
8 C	methanol	0.253	0.235	7.1	90	-0.02
9 C	vinyl chloride	0.523	0.514	1.7	92	-0.02
10 C	1,3-butadiene	0.450	0.473	-5.1	99	-0.02
11	butane	0.770	0.715	7.1	92	-0.03
13 C	bromomethane	0.429	0.439	-2.3	95	-0.03
14 C	chloroethane	0.241	0.246	-2.1	97	-0.03
15	ethanol	0.428	0.477	-11.4	103	-0.03
16	dichlorofluoromethane	0.869	0.828	4.7	94	-0.03
17 C	vinyl bromide	0.412	0.422	-2.4	96	-0.03
18 C	acrolein	0.249	0.236	5.2	96	-0.04
19	acetone	0.609	0.584	4.1	96	-0.03
20 C	acetonitrile	0.425	0.411	3.3	96	-0.03
21	trichlorofluoromethane	0.750	0.744	0.8	93	-0.04
22	isopropyl alcohol	0.791	0.742	6.2	88	-0.04
23 C	acrylonitrile	0.462	0.450	2.6	97	-0.04
24	pentane	0.910	0.855	6.0	93	-0.04
25	ethyl ether	0.953	0.893	6.3	97	-0.04
26 C	1,1-dichloroethene	0.676	0.694	-2.7	97	-0.04
27	tertiary butyl alcohol	0.921	0.962	-4.5	101	-0.04
28 C	methylene chloride	0.670	0.608	9.3	90	-0.04
29 C	3-chloropropene	0.749	0.792	-5.7	100	-0.04
30 C	carbon disulfide	1.668	1.684	-1.0	92	-0.04
31	Freon 113	0.971	0.949	2.3	91	-0.04
32	trans-1,2-dichloroethene	0.704	0.726	-3.1	96	-0.04
33 C	1,1-dichloroethane	0.889	0.858	3.5	90	-0.03
34 C	MTBE	1.313	1.340	-2.1	96	-0.04
35 C	vinyl acetate	1.208	1.118	7.5	86	-0.03
36 C	2-butanone	1.222	1.229	-0.6	94	-0.04
37	cis-1,2-dichloroethene	0.662	0.655	1.1	92	-0.03
38	Ethyl Acetate	0.170	0.186	-9.4	103	-0.04
39 C	chloroform	0.940	0.939	0.1	94	-0.03
40	Tetrahydrofuran	0.693	0.691	0.3	92	-0.03

Evaluate Continuing Calibration Report

Data Path : O:\Forensics\Data\Airlab17\2024\01\0107T_I\
 Data File : r1737686.D
 Acq On : 8 Jan 2024 1:00 PM
 Operator : AIRLAB17:RAY
 Sample : CTO15-LLSTD10.0
 Misc : WG1872080
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jan 08 15:05:16 2024
 Quant Method : O:\Forensics\Data\Airlab17\2024\01\0107T_I\TFS17_240107.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Mon Jan 08 15:04:31 2024
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
 Max. RRF Dev : 30% Max. Rel. Area : 140%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
41	2,2-dichloropropane	0.736	0.706	4.1	93	-0.04
42 C	1,2-dichloroethane	0.536	0.497	7.3	89	-0.04
43 I	1,4-difluorobenzene	1.000	1.000	0.0	96	-0.03
44 C	hexane	0.331	0.343	-3.6	102	-0.03
45	diisopropyl ether	0.174	0.168	3.4	98	-0.04
46	tert-butyl ethyl ether	0.580	0.562	3.1	97	-0.03
47 s	1,2-dichloroethane-D4	0.305	0.292	4.3	93	-0.03
48 C	1,1,1-trichloroethane	0.288	0.266	7.6	89	-0.04
49	1,1-dichloropropene	0.312	0.311	0.3	99	-0.04
50 C	benzene	0.741	0.685	7.6	88	-0.04
52 C	carbon tetrachloride	0.271	0.267	1.5	92	-0.04
53	cyclohexane	0.354	0.375	-5.9	104	-0.04
54	tert-amyl methyl ether	0.584	0.552	5.5	94	-0.04
55	dibromomethane	0.198	0.191	3.5	96	-0.03
56 C	1,2-dichloropropane	0.228	0.217	4.8	90	-0.03
57	bromodichloromethane	0.348	0.382	-9.8	103	-0.04
58 C	1,4-dioxane	0.143	0.154	-7.7	103	-0.03
59 C	trichloroethene	0.282	0.268	5.0	90	-0.04
60 C	2,2,4-trimethylpentane	1.099	1.111	-1.1	103	-0.04
61	methyl methacrylate	0.247	0.258	-4.5	98	-0.03
62	heptane	0.466	0.468	-0.4	95	-0.04
63 C	cis-1,3-dichloropropene	0.371	0.364	1.9	91	-0.03
64 C	4-methyl-2-pentanone	0.552	0.559	-1.3	94	-0.03
65	trans-1,3-dichloropropene	0.290	0.284	2.1	90	-0.03
66 C	1,1,2-trichloroethane	0.253	0.241	4.7	90	-0.04
67 I	chlorobenzene-D5	1.000	1.000	0.0	97	-0.03
68 C	toluene	5.498	5.181	5.8	90	-0.03
69 s	toluene-D8	7.414	7.086	4.4	93	-0.03
71	1,3-dichloropropane	2.760	2.626	4.9	95	-0.03
72	2-hexanone	3.566	3.626	-1.7	92	-0.03
74	dibromochloromethane	2.321	2.717	-17.1	107	-0.03
75 C	1,2-dibromoethane	2.826	2.699	4.5	90	-0.03
76	butyl acetate	0.635	0.607	4.4	91	-0.03
77	octane	1.996	1.906	4.5	97	-0.03
78 C	tetrachloroethene	2.195	2.063	6.0	90	-0.03
79	1,1,1,2-tetrachloroethane	1.906	1.884	1.2	97	-0.02
80 C	chlorobenzene	4.722	4.490	4.9	90	-0.03

Evaluate Continuing Calibration Report

Data Path : O:\Forensics\Data\Airlab17\2024\01\0107T_I\
 Data File : r1737686.D
 Acq On : 8 Jan 2024 1:00 PM
 Operator : AIRLAB17:RAY
 Sample : CTO15-LLSTD10.0
 Misc : WG1872080
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jan 08 15:05:16 2024
 Quant Method : O:\Forensics\Data\Airlab17\2024\01\0107T_I\TFS17_240107.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Mon Jan 08 15:04:31 2024
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
 Max. RRF Dev : 30% Max. Rel. Area : 140%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
81 C	ethylbenzene	6.927	6.606	4.6	89	-0.03
83 C	m+p-xylene	5.488	5.272	3.9	90	-0.03
84 C	bromoform	1.794	2.119	-18.1	106	-0.03
85 C	styrene	4.644	4.530	2.5	89	-0.02
86 C	1,1,2,2-tetrachloroethane	4.138	4.189	-1.2	95	-0.02
87 C	o-xylene	5.492	5.364	2.3	92	-0.02
88	1,2,3-trichloropropane	3.301	3.193	3.3	97	-0.03
89	nonane	5.239	4.847	7.5	91	-0.02
90 s	bromofluorobenzene	4.540	4.199	7.5	89	-0.02
91 C	isopropylbenzene	7.347	7.322	0.3	99	-0.02
92	bromobenzene	4.250	4.204	1.1	99	-0.03
93	2-chlorotoluene	2.139	2.048	4.3	95	-0.02
94	n-propylbenzene	2.332	2.256	3.3	98	-0.02
95	4-chlorotoluene	2.046	2.014	1.6	97	-0.03
96	4-ethyl toluene	7.571	7.824	-3.3	99	-0.02
97	1,3,5-trimethylbenzene	6.529	6.391	2.1	93	-0.02
98	tert-butylbenzene	6.472	6.392	1.2	97	-0.03
99	1,2,4-trimethylbenzene	6.497	6.307	2.9	91	-0.03
100	decane	4.934	4.812	2.5	97	-0.02
101 C	Benzyl Chloride	3.616	3.966	-9.7	101	-0.02
102	1,3-dichlorobenzene	3.907	3.931	-0.6	93	-0.02
103 C	1,4-dichlorobenzene	3.804	3.803	0.0	91	-0.03
104	sec-butylbenzene	9.210	9.022	2.0	98	-0.02
106	p-isopropyltoluene	7.833	7.112	9.2	90	-0.03
107	1,2-dichlorobenzene	3.724	3.613	3.0	91	-0.02
108	n-butylbenzene	6.717	6.738	-0.3	100	-0.02
111 C	1,2-dibromo-3-chloropropane	1.541	1.593	-3.4	100	-0.03
112	undecane	5.267	5.175	1.7	98	-0.02
114	dodecane	5.065	4.919	2.9	93	0.00
115 C	1,2,4-trichlorobenzene	2.469	2.312	6.4	82	-0.03
116	naphthalene	6.859	6.720	2.0	99	-0.03
117	1,2,3-trichlorobenzene	2.150	2.149	0.0	101	-0.02
119 C	hexachlorobutadiene	2.381	2.188	8.1	83	-0.02

* Evaluation of CC level amount vs concentration.
 (#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab17\2024\01\0107T_I\
 Data File : r1737686.D
 Acq On : 8 Jan 2024 1:00 PM
 Operator : AIRLAB17:RAY
 Sample : CTO15-LLSTD10.0
 Misc : WG1872080
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jan 08 15:05:16 2024
 Quant Method : O:\Forensics\Data\Airlab17\2024\01\0107T_I\TFS17_240107.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Mon Jan 08 15:04:31 2024
 Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab17\2024\01\0107T_I\r1737680.D
 Sub List : Default-ICV-AP2 - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
Internal Standards							
1) bromochloromethane	8.800	49	403285	10.000	ppbV	-0.04	
Standard Area = 426000			Recovery =	94.67%			
43) 1,4-difluorobenzene	11.037	114	1083333	10.000	ppbV	-0.03	
Standard Area = 1124227			Recovery =	96.36%			
67) chlorobenzene-D5	15.808	54	150636	10.000	ppbV	-0.03	
Standard Area = 154777			Recovery =	97.32%			
System Monitoring Compounds							
47) 1,2-dichloroethane-D4	9.667	65	316625	9.585	ppbV	-0.03	
Spiked Amount 10.000	Range 70 - 130		Recovery =	95.85%			
69) toluene-D8	13.892	98	1067437	9.558	ppbV	-0.03	
Spiked Amount 10.000	Range 70 - 130		Recovery =	95.58%			
90) bromofluorobenzene	17.192	95	632543	9.249	ppbV	-0.02	
Spiked Amount 10.000	Range 70 - 130		Recovery =	92.49%			
Target Compounds							
							Qvalue
2) chlorodifluoromethane	3.742	51	323965	9.518	ppbV		100
3) propylene	3.772	41	195247M6	10.270	ppbV		
4) propane	3.796	29	252250	10.026	ppbV		96
5) dichlorodifluoromethane	3.838	85	362409	9.481	ppbV		98
6) chloromethane	3.994	50	178482	8.789	ppbV		99
7) Freon-114	4.096	85	485313	10.426	ppbV		97
8) methanol	4.144	31	473262	46.397	ppbV		96
9) vinyl chloride	4.210	62	207226	9.833	ppbV		100
10) 1,3-butadiene	4.348	54	190921	10.523	ppbV		98
11) butane	4.396	43	288214	9.282	ppbV		98
13) bromomethane	4.612	94	177123	10.233	ppbV		99
14) chloroethane	4.792	64	99386	10.206	ppbV		97
15) ethanol	4.900	31	962420	55.759	ppbV		93
16) dichlorofluoromethane	4.894	67	333873	9.522	ppbV		99
17) vinyl bromide	5.150	106	170030	10.238	ppbV		99
18) acrolein	5.267	56	95371	9.511	ppbV		98
19) acetone	5.400	43	1178174	47.984	ppbV		98
20) acetonitrile	5.127	41	165631	9.661	ppbV		96
21) trichlorofluoromethane	5.593	101	300230	9.925	ppbV		100
22) isopropyl alcohol	5.663	45	748395	23.457	ppbV		98
23) acrylonitrile	5.903	53	181617	9.751	ppbV		99
24) pentane	5.983	43	344956	9.401	ppbV		98
25) ethyl ether	6.003	31	360265	9.374	ppbV		97

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab17\2024\01\0107T_I\
 Data File : r1737686.D
 Acq On : 8 Jan 2024 1:00 PM
 Operator : AIRLAB17:RAY
 Sample : CTO15-LLSTD10.0
 Misc : WG1872080
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jan 08 15:05:16 2024
 Quant Method : O:\Forensics\Data\Airlab17\2024\01\0107T_I\TFS17_240107.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Mon Jan 08 15:04:31 2024
 Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab17\2024\01\0107T_I\r1737680.D
 Sub List : Default-ICV-AP2 - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
26) 1,1-dichloroethene	6.276	61	280056	10.267	ppbV	99
27) tertiary butyl alcohol	6.312	59	387829	10.442	ppbV	97
28) methylene chloride	6.414	49	245027	9.063	ppbV	99
29) 3-chloropropene	6.546	41	319284	10.576	ppbV	98
30) carbon disulfide	6.708	76	679114	10.094	ppbV	99
31) Freon 113	6.714	101	382658	9.768	ppbV	99
32) trans-1,2-dichloroethene	7.450	61	292740	10.314	ppbV	98
33) 1,1-dichloroethane	7.675	63	346082	9.655	ppbV	100
34) MTBE	7.733	73	540392	10.204	ppbV	98
35) vinyl acetate	7.858	43	450725	9.249	ppbV	98
36) 2-butanone	8.108	43	495725	10.056	ppbV	100
37) cis-1,2-dichloroethene	8.617	61	264349	9.902	ppbV	96
38) Ethyl Acetate	8.883	61	75056	10.943	ppbV	97
39) chloroform	8.958	83	378555	9.988	ppbV	97
40) Tetrahydrofuran	9.383	42	278665	9.965	ppbV	99
41) 2,2-dichloropropane	8.975	77	284892	9.592	ppbV	98
42) 1,2-dichloroethane	9.783	62	200575	9.286	ppbV	99
44) hexane	8.875	57	372102	10.383	ppbV	97
45) diisopropyl ether	8.867	87	182469	9.679	ppbV	85
46) tert-butyl ethyl ether	9.483	59	608378	9.676	ppbV	99
48) 1,1,1-trichloroethane	10.075	97	287759	9.221	ppbV	98
49) 1,1-dichloropropene	10.443	75	337054	9.962	ppbV	98
50) benzene	10.603	78	742257	9.245	ppbV	99
52) carbon tetrachloride	10.777	117	289628	9.856	ppbV	98
53) cyclohexane	10.923	56	406538	10.608	ppbV	96
54) tert-amyl methyl ether	11.303	73	597817	9.454	ppbV	98
55) dibromomethane	11.523	93	207009	9.654	ppbV	98
56) 1,2-dichloropropane	11.557	63	235586	9.548	ppbV	98
57) bromodichloromethane	11.783	83	413347	10.977	ppbV	98
58) 1,4-dioxane	11.823	88	167100	10.815	ppbV	100
59) trichloroethene	11.837	130	290008	9.494	ppbV	98
60) 2,2,4-trimethylpentane	11.890	57	1203775	10.113	ppbV	97
61) methyl methacrylate	12.090	41	279510	10.440	ppbV	99
62) heptane	12.210	43	506662	10.039	ppbV	94
63) cis-1,3-dichloropropene	12.858	75	393882	9.796	ppbV	98
64) 4-methyl-2-pentanone	12.892	43	605143	10.115	ppbV	96
65) trans-1,3-dichloropropene	13.483	75	307834	9.794	ppbV	99
66) 1,1,2-trichloroethane	13.675	97	260748	9.511	ppbV	97
68) toluene	14.008	91	780373	9.423	ppbV	99
71) 1,3-dichloropropane	14.042	76	395505	9.511	ppbV	99

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab17\2024\01\0107T_I\
 Data File : r1737686.D
 Acq On : 8 Jan 2024 1:00 PM
 Operator : AIRLAB17:RAY
 Sample : CTO15-LLSTD10.0
 Misc : WG1872080
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jan 08 15:05:16 2024
 Quant Method : O:\Forensics\Data\Airlab17\2024\01\0107T_I\TFS17_240107.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Mon Jan 08 15:04:31 2024
 Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab17\2024\01\0107T_I\r1737680.D
 Sub List : Default-ICV-AP2 - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
72) 2-hexanone	14.300	43	546243	10.169	ppbV	96
74) dibromochloromethane	14.467	129	409238	11.704	ppbV	97
75) 1,2-dibromoethane	14.725	107	406610	9.553	ppbV	99
76) butyl acetate	14.975	73	91456	9.565	ppbV	89
77) octane	15.075	85	287071	9.548	ppbV	94
78) tetrachloroethene	15.192	166	310703	9.396	ppbV	99
79) 1,1,1,2-tetrachloroethane	15.833	131	283765	9.883	ppbV	99
80) chlorobenzene	15.850	112	676338	9.508	ppbV	99
81) ethylbenzene	16.200	91	995067	9.537	ppbV	99
83) m+p-xylene	16.367	91	1588312	19.212	ppbV	99
84) bromoform	16.425	173	319238	11.810	ppbV	100
85) styrene	16.692	104	682335	9.754	ppbV	97
86) 1,1,2,2-tetrachloroethane	16.783	83	631076	10.123	ppbV	99
87) o-xylene	16.792	91	807975	9.766	ppbV	98
88) 1,2,3-trichloropropane	16.900	75	480973	9.672	ppbV	99
89) nonane	17.000	43	730159	9.251	ppbV	94
91) isopropylbenzene	17.308	105	1102908	9.965	ppbV	100
92) bromobenzene	17.383	77	633276	9.891	ppbV	98
93) 2-chlorotoluene	17.717	126	308568	9.574	ppbV	89
94) n-propylbenzene	17.742	120	339904	9.674	ppbV	97
95) 4-chlorotoluene	17.775	126	303451	9.848	ppbV	98
96) 4-ethyl toluene	17.867	105	1178516	10.334	ppbV	99
97) 1,3,5-trimethylbenzene	17.933	105	962666	9.788	ppbV	100
98) tert-butylbenzene	18.275	119	962922	9.876	ppbV	99
99) 1,2,4-trimethylbenzene	18.275	105	950113	9.708	ppbV	93
100) decane	18.367	57	724930	9.753	ppbV	96
101) Benzyl Chloride	18.400	91	597440	10.969	ppbV	99
102) 1,3-dichlorobenzene	18.408	146	592151	10.063	ppbV	99
103) 1,4-dichlorobenzene	18.467	146	572936	9.998	ppbV	98
104) sec-butylbenzene	18.500	105	1359059	9.796	ppbV	99
106) p-isopropyltoluene	18.633	119	1071248	9.079	ppbV	97
107) 1,2-dichlorobenzene	18.758	146	544177	9.700	ppbV	96
108) n-butylbenzene	19.000	91	1014915	10.030	ppbV	98
111) 1,2-dibromo-3-chloropr...	19.142	75	239991	10.339	ppbV	95
112) undecane	19.467	57	779601	9.825	ppbV	96
114) dodecane	20.508	57	740986	9.712	ppbV	96
115) 1,2,4-trichlorobenzene	20.333	180	348300	9.365	ppbV	99
116) naphthalene	20.450	128	1012212	9.796	ppbV	99
117) 1,2,3-trichlorobenzene	20.725	180	323689	9.995	ppbV	99
119) hexachlorobutadiene	20.833	225	329563	9.189	ppbV	98

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab17\2024\01\0107T_I\
Data File : r1737686.D
Acq On : 8 Jan 2024 1:00 PM
Operator : AIRLAB17:RAY
Sample : CTO15-LLSTD10.0
Misc : WG1872080
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jan 08 15:05:16 2024
Quant Method : O:\Forensics\Data\Airlab17\2024\01\0107T_I\TFS17_240107.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Mon Jan 08 15:04:31 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab17\2024\01\0107T_I\r1737680.D
Sub List : Default-ICV-AP2 - All compounds listed

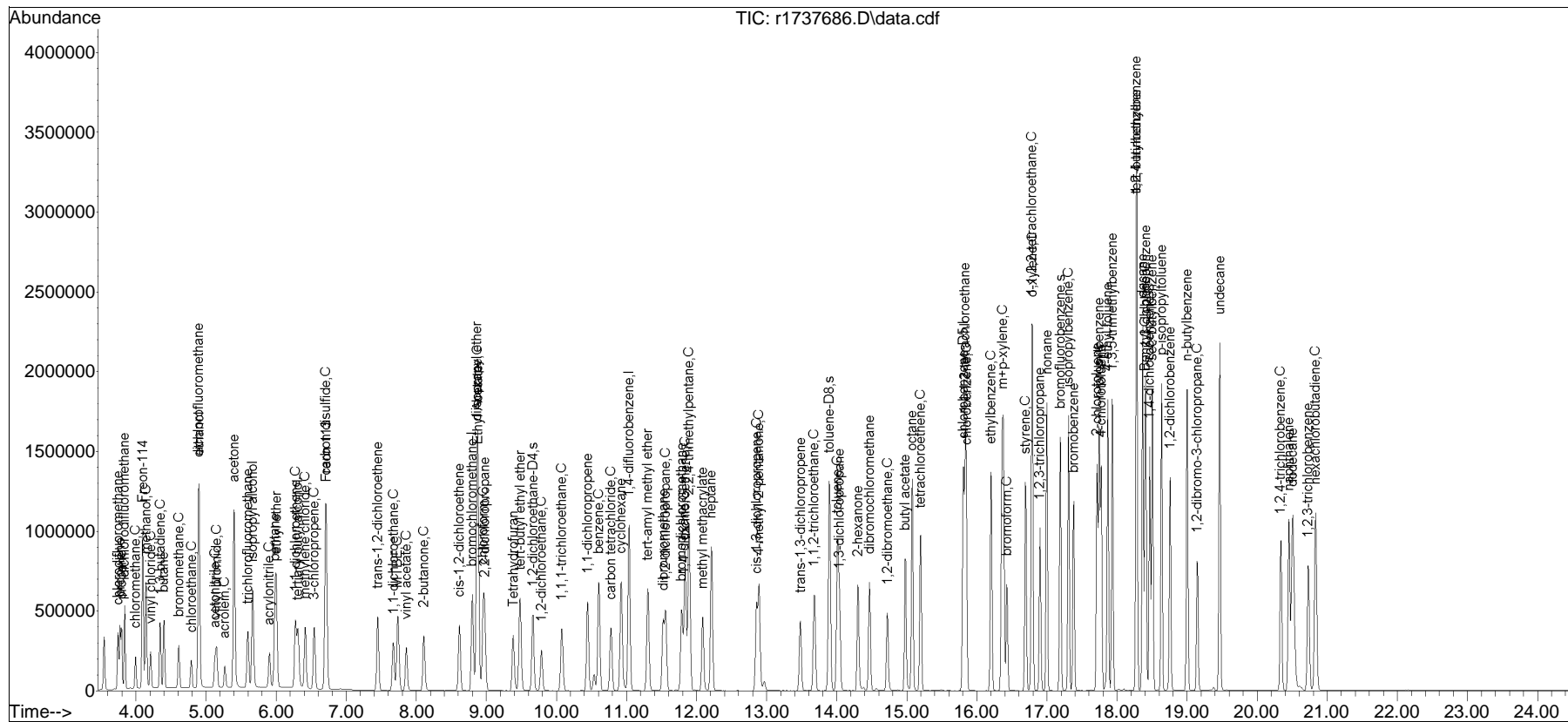
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
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(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sub List : Default-ICV-AP2 - All compounds listed7T_I\r1737680.D

Data Path : O:\Forensics\Data\Airlab17\2024\01\0107T_I\
Data File : r1737686.D
Acq On : 8 Jan 2024 1:00 PM
Operator : AIRLAB17:RAY
Sample : CTO15-LLSTD10.0
Misc : WG1872080
ALS Vial : 0 Sample Multiplier: 1

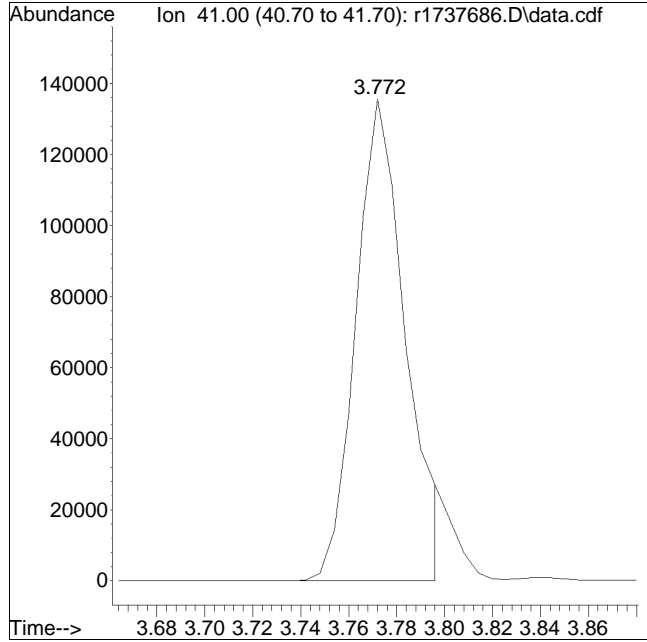
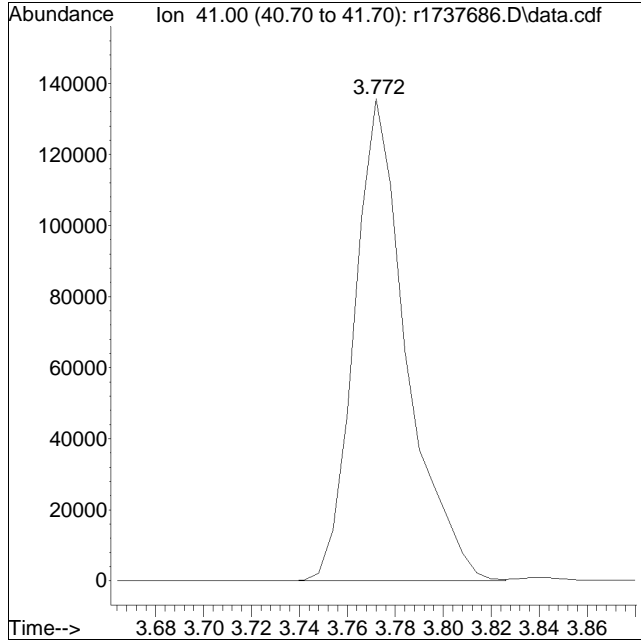
Quant Time: Jan 08 15:05:16 2024
Quant Method : O:\Forensics\Data\Airlab17\2024\01\0107T_I\TFS17_240107.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Mon Jan 08 15:04:31 2024
Response via : Initial Calibration



Manual Integration Report

Data Path : O:\Forensics\Data\Airlab17QMethod : TFS17_240107.M
Data File : r1737686.D Operator : AIRLAB17:RAY
Date Inj'd : 1/8/2020 0:1: 0 Instrument :
Sample : CTO15-LLSTD10.0 Quant Date : 1/8/2024 3:05 pm

Compound #3: propylene



Original Peak Response = 205548

Manual Peak Response = 195247 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Continuing Calibration

Calibration Verification Summary

Form 7

Air Volatiles

Client : TRC Environmental Corp
 Project Name : K710 IAQ
 Instrument ID : AIRLAB17
 Lab File ID : R1738648
 Sample No : WG1885731-2
 Channel :

Lab Number : L2407645
 Project Number : 457205
 Calibration Date : 02/15/24 14:42
 Init. Calib. Date(s) : 01/07/24 01/08/24
 Init. Calib. Times : 22:14 02:55

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
bromochloromethane	1	1	-	0	30	87	0
chlorodifluoromethane	0.844	0.839	-	0.6	30	88	0
propylene	0.471	0.356	-	24.4	30	73	0
propane	0.624	0.577	-	7.5	30	84	0
dichlorodifluoromethane	0.948	1.034	-	-9.1	30	93	0
chloromethane	0.504	0.483	-	4.2	30	82	0
Freon-114	1.154	1.165	-	-1	30	86	0
methanol	0.253	0.244	-	3.6	30	86	0
vinyl chloride	0.523	0.503	-	3.8	30	83	0
1,3-butadiene	0.45	0.414	-	8	30	80	0
butane	0.77	0.705	-	8.4	30	83	0
bromomethane	0.429	0.422	-	1.6	30	84	0
chloroethane	0.241	0.228	-	5.4	30	83	0
ethanol	0.428	0.409	-	4.4	30	81	0
dichlorofluoromethane	0.869	0.89	-	-2.4	30	93	0
vinyl bromide	0.412	0.4	-	2.9	30	84	0
acrolein	0.249	0.218	-	12.4	30	81	0
acetone	0.609	0.56	-	8	30	85	0
acetonitrile	0.425	0.405	-	4.7	30	87	0
trichlorofluoromethane	0.75	0.822	-	-9.6	30	94	0
isopropyl alcohol	0.791	0.672	-	15	30	73	0
acrylonitrile	0.462	0.403	-	12.8	30	80	0
pentane	0.91	0.825	-	9.3	30	83	0
ethyl ether	0.953	0.92	-	3.5	30	92	0
1,1-dichloroethene	0.676	0.704	-	-4.1	30	90	0
tertiary butyl alcohol	0.921	0.751	-	18.5	30	72	0
methylene chloride	0.67	0.705	-	-5.2	30	96	0
3-chloropropene	0.749	0.69	-	7.9	30	80	0
carbon disulfide	1.668	1.617	-	3.1	30	81	0
Freon 113	0.971	0.993	-	-2.3	30	87	0
trans-1,2-dichloroethene	0.704	0.704	-	0	30	86	0
1,1-dichloroethane	0.889	0.89	-	-0.1	30	86	0
MTBE	1.313	1.129	-	14	30	74	0
vinyl acetate	1.208	1.166	-	3.5	30	82	0
2-butanone	1.222	1.162	-	4.9	30	82	0
cis-1,2-dichloroethene	0.662	0.656	-	0.9	30	85	0
Ethyl Acetate	0.17	0.167	-	1.8	30	85	0
chloroform	0.94	0.988	-	-5.1	30	91	0
Tetrahydrofuran	0.693	0.657	-	5.2	30	80	0
2,2-dichloropropane	0.736	0.718	-	2.4	30	87	0
1,2-dichloroethane	0.536	0.581	-	-8.4	30	96	0
1,4-difluorobenzene	1	1	-	0	30	88	0
hexane	0.331	0.317	-	4.2	30	85	0

* Value outside of QC limits.



Calibration Verification Summary

Form 7

Air Volatiles

Client : TRC Environmental Corp
 Project Name : K710 IAQ
 Instrument ID : AIRLAB17
 Lab File ID : R1738648
 Sample No : WG1885731-2
 Channel :

Lab Number : L2407645
 Project Number : 457205
 Calibration Date : 02/15/24 14:42
 Init. Calib. Date(s) : 01/07/24 01/08/24
 Init. Calib. Times : 22:14 02:55

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
diisopropyl ether	0.174	0.152	-	12.6	30	80	0
tert-butyl ethyl ether	0.58	0.497	-	14.3	30	78	0
1,1,1-trichloroethane	0.288	0.3	-	-4.2	30	92	0
1,1-dichloropropene	0.312	0.29	-	7.1	30	84	0
benzene	0.741	0.692	-	6.6	30	81	0
carbon tetrachloride	0.271	0.311	-	-14.8	30	97	0
cyclohexane	0.354	0.334	-	5.6	30	84	0
tert-amyl methyl ether	0.584	0.469	-	19.7	30	73	0
dibromomethane	0.198	0.21	-	-6.1	30	97	0
1,2-dichloropropane	0.228	0.227	-	0.4	30	86	0
bromodichloromethane	0.348	0.374	-	-7.5	30	92	0
1,4-dioxane	0.143	0.132	-	7.7	30	80	0
trichloroethene	0.282	0.288	-	-2.1	30	88	0
2,2,4-trimethylpentane	1.099	1.019	-	7.3	30	86	0
methyl methacrylate	0.247	0.242	-	2	30	84	0
heptane	0.466	0.442	-	5.2	30	82	0
cis-1,3-dichloropropene	0.371	0.328	-	11.6	30	75	0
4-methyl-2-pentanone	0.552	0.51	-	7.6	30	79	0
trans-1,3-dichloropropene	0.29	0.262	-	9.7	30	75	0
1,1,2-trichloroethane	0.253	0.254	-	-0.4	30	86	0
chlorobenzene-D5	1	1	-	0	30	92	0
toluene	5.498	5.145	-	6.4	30	84	0
1,3-dichloropropane	2.76	2.56	-	7.2	30	87	0
2-hexanone	3.566	3.196	-	10.4	30	76	0
dibromochloromethane	2.321	2.617	-	-12.8	30	98	0
1,2-dibromoethane	2.826	2.718	-	3.8	30	86	0
butyl acetate	0.635	0.541	-	14.8	30	76	0
octane	1.996	1.797	-	10	30	87	0
tetrachloroethene	2.195	2.101	-	4.3	30	86	0
1,1,1,2-tetrachloroethane	1.906	1.965	-	-3.1	30	95	0
chlorobenzene	4.722	4.444	-	5.9	30	85	0
ethylbenzene	6.927	6.664	-	3.8	30	85	0
m+p-xylene	5.488	5.362	-	2.3	30	87	0
bromoform	1.794	2.065	-	-15.1	30	97	0
styrene	4.644	4.282	-	7.8	30	79	0
1,1,2,2-tetrachloroethane	4.138	4.121	-	0.4	30	89	0
o-xylene	5.492	5.349	-	2.6	30	87	0
1,2,3-trichloropropane	3.301	3.082	-	6.6	30	89	0
nonane	5.239	4.518	-	13.8	30	80	0
isopropylbenzene	7.347	6.853	-	6.7	30	88	0
bromobenzene	4.25	3.903	-	8.2	30	87	0
2-chlorotoluene	2.139	2.012	-	5.9	30	89	0
n-propylbenzene	2.332	2.249	-	3.6	30	92	0

* Value outside of QC limits.



Calibration Verification Summary

Form 7

Air Volatiles

Client : TRC Environmental Corp
Project Name : K710 IAQ
Instrument ID : AIRLAB17
Lab File ID : R1738648
Sample No : WG1885731-2
Channel :

Lab Number : L2407645
Project Number : 457205
Calibration Date : 02/15/24 14:42
Init. Calib. Date(s) : 01/07/24 01/08/24
Init. Calib. Times : 22:14 02:55

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
4-chlorotoluene	2.046	1.992	-	2.6	30	91	0
4-ethyl toluene	7.571	7.219	-	4.6	30	86	0
1,3,5-trimethylbenzene	6.529	6.033	-	7.6	30	83	0
tert-butylbenzene	6.472	6.075	-	6.1	30	87	0
1,2,4-trimethylbenzene	6.497	6.023	-	7.3	30	82	0
decane	4.934	4.394	-	10.9	30	84	0
Benzyl Chloride	3.616	3.29	-	9	30	79	0
1,3-dichlorobenzene	3.907	3.857	-	1.3	30	86	0
1,4-dichlorobenzene	3.804	3.793	-	0.3	30	86	0
sec-butylbenzene	9.21	8.261	-	10.3	30	85	0
p-isopropyltoluene	7.833	7.178	-	8.4	30	86	0
1,2-dichlorobenzene	3.724	3.626	-	2.6	30	86	0
n-butylbenzene	6.717	6.075	-	9.6	30	85	0
1,2-dibromo-3-chloropropan	1.541	1.437	-	6.7	30	86	0
undecane	5.267	4.465	-	15.2	30	80	0
dodecane	5.065	4.141	-	18.2	30	74	.03
1,2,4-trichlorobenzene	2.469	2.066	-	16.3	30	69	0
naphthalene	6.859	5.444	-	20.6	30	76	0
1,2,3-trichlorobenzene	2.15	1.748	-	18.7	30	77	.02
hexachlorobutadiene	2.381	2.21	-	7.2	30	80	.02

* Value outside of QC limits.



Evaluate Continuing Calibration Report

Data Path : O:\Forensics\Data\Airlab17\2024\02\0215T\
 Data File : r1738648.D
 Acq On : 15 Feb 2024 2:42 PM
 Operator : AIRLAB17:JMB
 Sample : WG1885731-2,3,250,250
 Misc : WG1885731,ICAL20743
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 15 16:05:50 2024
 Quant Method : O:\Forensics\Data\Airlab17\2024\02\0215T\TFS17_240107.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Mon Jan 08 15:04:31 2024
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
 Max. RRF Dev : 30% Max. Rel. Area : 140%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	bromochloromethane	1.000	1.000	0.0	87	0.00
2	chlorodifluoromethane	0.844	0.839	0.6	88	0.00
3	propylene	0.471	0.356	24.4	73	0.00
4	propane	0.624	0.577	7.5	84	0.00
5	dichlorodifluoromethane	0.948	1.034	-9.1	93	0.00
6 C	chloromethane	0.504	0.483	4.2	82	0.00
7	Freon-114	1.154	1.165	-1.0	86	0.00
8 C	methanol	0.253	0.244	3.6	86	0.00
9 C	vinyl chloride	0.523	0.503	3.8	83	0.00
10 C	1,3-butadiene	0.450	0.414	8.0	80	0.00
11	butane	0.770	0.705	8.4	83	0.00
13 C	bromomethane	0.429	0.422	1.6	84	0.00
14 C	chloroethane	0.241	0.228	5.4	83	0.00
15	ethanol	0.428	0.409	4.4	81	0.00
16	dichlorofluoromethane	0.869	0.890	-2.4	93	0.00
17 C	vinyl bromide	0.412	0.400	2.9	84	0.00
18 C	acrolein	0.249	0.218	12.4	81	0.00
19	acetone	0.609	0.560	8.0	85	0.00
20 C	acetonitrile	0.425	0.405	4.7	87	0.00
21	trichlorofluoromethane	0.750	0.822	-9.6	94	0.00
22	isopropyl alcohol	0.791	0.672	15.0	73	0.00
23 C	acrylonitrile	0.462	0.403	12.8	80	0.00
24	pentane	0.910	0.825	9.3	83	0.00
25	ethyl ether	0.953	0.920	3.5	92	0.00
26 C	1,1-dichloroethene	0.676	0.704	-4.1	90	0.00
27	tertiary butyl alcohol	0.921	0.751	18.5	72	0.00
28 C	methylene chloride	0.670	0.705	-5.2	96	0.00
29 C	3-chloropropene	0.749	0.690	7.9	80	0.00
30 C	carbon disulfide	1.668	1.617	3.1	81	0.00
31	Freon 113	0.971	0.993	-2.3	87	0.00
32	trans-1,2-dichloroethene	0.704	0.704	0.0	86	0.00
33 C	1,1-dichloroethane	0.889	0.890	-0.1	86	0.00
34 C	MTBE	1.313	1.129	14.0	74	0.00
35 C	vinyl acetate	1.208	1.166	3.5	82	0.00
36 C	2-butanone	1.222	1.162	4.9	82	0.00
37	cis-1,2-dichloroethene	0.662	0.656	0.9	85	0.00
38	Ethyl Acetate	0.170	0.167	1.8	85	0.00
39 C	chloroform	0.940	0.988	-5.1	91	0.00
40	Tetrahydrofuran	0.693	0.657	5.2	80	0.00

Evaluate Continuing Calibration Report

Data Path : O:\Forensics\Data\Airlab17\2024\02\0215T\
 Data File : r1738648.D
 Acq On : 15 Feb 2024 2:42 PM
 Operator : AIRLAB17:JMB
 Sample : WG1885731-2,3,250,250
 Misc : WG1885731,ICAL20743
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 15 16:05:50 2024
 Quant Method : O:\Forensics\Data\Airlab17\2024\02\0215T\TFS17_240107.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Mon Jan 08 15:04:31 2024
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
 Max. RRF Dev : 30% Max. Rel. Area : 140%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
41	2,2-dichloropropane	0.736	0.718	2.4	87	0.00
42 C	1,2-dichloroethane	0.536	0.581	-8.4	96	0.00
43 I	1,4-difluorobenzene	1.000	1.000	0.0	88	0.00
44 C	hexane	0.331	0.317	4.2	85	0.00
45	diisopropyl ether	0.174	0.152	12.6	80	0.00
46	tert-butyl ethyl ether	0.580	0.497	14.3	78	0.00
48 C	1,1,1-trichloroethane	0.288	0.300	-4.2	92	0.00
49	1,1-dichloropropene	0.312	0.290	7.1	84	0.00
50 C	benzene	0.741	0.692	6.6	81	0.00
52 C	carbon tetrachloride	0.271	0.311	-14.8	97	0.00
53	cyclohexane	0.354	0.334	5.6	84	0.00
54	tert-amyl methyl ether	0.584	0.469	19.7	73	0.00
55	dibromomethane	0.198	0.210	-6.1	97	0.00
56 C	1,2-dichloropropane	0.228	0.227	0.4	86	0.00
57	bromodichloromethane	0.348	0.374	-7.5	92	0.00
58 C	1,4-dioxane	0.143	0.132	7.7	80	0.00
59 C	trichloroethene	0.282	0.288	-2.1	88	0.00
60 C	2,2,4-trimethylpentane	1.099	1.019	7.3	86	0.00
61	methyl methacrylate	0.247	0.242	2.0	84	0.00
62	heptane	0.466	0.442	5.2	82	0.00
63 C	cis-1,3-dichloropropene	0.371	0.328	11.6	75	0.00
64 C	4-methyl-2-pentanone	0.552	0.510	7.6	79	0.00
65	trans-1,3-dichloropropene	0.290	0.262	9.7	75	0.00
66 C	1,1,2-trichloroethane	0.253	0.254	-0.4	86	0.00
67 I	chlorobenzene-D5	1.000	1.000	0.0	92	0.00
68 C	toluene	5.498	5.145	6.4	84	0.00
71	1,3-dichloropropane	2.760	2.560	7.2	87	0.00
72	2-hexanone	3.566	3.196	10.4	76	0.00
74	dibromochloromethane	2.321	2.617	-12.8	98	0.00
75 C	1,2-dibromoethane	2.826	2.718	3.8	86	0.00
76	butyl acetate	0.635	0.541	14.8	76	0.00
77	octane	1.996	1.797	10.0	87	0.00
78 C	tetrachloroethene	2.195	2.101	4.3	86	0.00
79	1,1,1,2-tetrachloroethane	1.906	1.965	-3.1	95	0.00
80 C	chlorobenzene	4.722	4.444	5.9	85	0.00
81 C	ethylbenzene	6.927	6.664	3.8	85	0.00
83 C	m+p-xylene	5.488	5.362	2.3	87	0.00

Evaluate Continuing Calibration Report

Data Path : O:\Forensics\Data\Airlab17\2024\02\0215T\
 Data File : r1738648.D
 Acq On : 15 Feb 2024 2:42 PM
 Operator : AIRLAB17:JMB
 Sample : WG1885731-2,3,250,250
 Misc : WG1885731,ICAL20743
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 15 16:05:50 2024
 Quant Method : O:\Forensics\Data\Airlab17\2024\02\0215T\TFS17_240107.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Mon Jan 08 15:04:31 2024
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
 Max. RRF Dev : 30% Max. Rel. Area : 140%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
84 C	bromoform	1.794	2.065	-15.1	97	0.00
85 C	styrene	4.644	4.282	7.8	79	0.00
86 C	1,1,2,2-tetrachloroethane	4.138	4.121	0.4	89	0.00
87 C	o-xylene	5.492	5.349	2.6	87	0.00
88	1,2,3-trichloropropane	3.301	3.082	6.6	89	0.00
89	nonane	5.239	4.518	13.8	80	0.00
91 C	isopropylbenzene	7.347	6.853	6.7	88	0.00
92	bromobenzene	4.250	3.903	8.2	87	0.00
93	2-chlorotoluene	2.139	2.012	5.9	89	0.00
94	n-propylbenzene	2.332	2.249	3.6	92	0.00
95	4-chlorotoluene	2.046	1.992	2.6	91	0.00
96	4-ethyl toluene	7.571	7.219	4.6	86	0.00
97	1,3,5-trimethylbenzene	6.529	6.033	7.6	83	0.00
98	tert-butylbenzene	6.472	6.075	6.1	87	0.00
99	1,2,4-trimethylbenzene	6.497	6.023	7.3	82	0.00
100	decane	4.934	4.394	10.9	84	0.00
101 C	Benzyl Chloride	3.616	3.290	9.0	79	0.00
102	1,3-dichlorobenzene	3.907	3.857	1.3	86	0.00
103 C	1,4-dichlorobenzene	3.804	3.793	0.3	86	0.00
104	sec-butylbenzene	9.210	8.261	10.3	85	0.00
106	p-isopropyltoluene	7.833	7.178	8.4	86	0.00
107	1,2-dichlorobenzene	3.724	3.626	2.6	86	0.00
108	n-butylbenzene	6.717	6.075	9.6	85	0.00
111 C	1,2-dibromo-3-chloropropane	1.541	1.437	6.7	86	0.00
112	undecane	5.267	4.465	15.2	80	0.00
114	dodecane	5.065	4.141	18.2	74	0.03
115 C	1,2,4-trichlorobenzene	2.469	2.066	16.3	69	0.00
116	naphthalene	6.859	5.444	20.6	76	0.00
117	1,2,3-trichlorobenzene	2.150	1.748	18.7	77	0.02
119 C	hexachlorobutadiene	2.381	2.210	7.2	80	0.02

* Evaluation of CC level amount vs concentration.
 (#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab17\2024\02\0215T\
 Data File : r1738648.D
 Acq On : 15 Feb 2024 2:42 PM
 Operator : AIRLAB17:JMB
 Sample : WG1885731-2,3,250,250
 Misc : WG1885731,ICAL20743
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 15 16:05:50 2024
 Quant Method : O:\Forensics\Data\Airlab17\2024\02\0215T\TFS17_240107.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Mon Jan 08 15:04:31 2024
 Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab17\2024\02\0215T\r1738648.D
 Sub List : Default-LCS-AP2 - All compounds listed

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

Internal Standards						
1) bromochloromethane	8.833	49	370847	10.000	ppbV	0.00
Standard Area =	370847		Recovery =	100.00%		
43) 1,4-difluorobenzene	11.070	114	986523	10.000	ppbV	0.00
Standard Area =	986523		Recovery =	100.00%		
67) chlorobenzene-D5	15.833	54	142298	10.000	ppbV	0.00
Standard Area =	142298		Recovery =	100.00%		

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) chlorodifluoromethane	3.766	51	311201	9.943	ppbV	96
3) propylene	3.796	41	132101M6	7.556	ppbV	
4) propane	3.820	29	213861	9.244	ppbV	98
5) dichlorodifluoromethane	3.862	85	383310	10.905	ppbV	99
6) chloromethane	4.018	50	178991	9.585	ppbV	99
7) Freon-114	4.120	85	432013	10.093	ppbV	98
8) methanol	4.168	31	453154	48.312	ppbV	98
9) vinyl chloride	4.234	62	186691	9.634	ppbV	99
10) 1,3-butadiene	4.372	54	153369	9.193	ppbV	93
11) butane	4.426	43	261560	9.160	ppbV	96
13) bromomethane	4.636	94	156655	9.842	ppbV	99
14) chloroethane	4.816	64	84699	9.459	ppbV	98
15) ethanol	4.930	31	758898	47.813	ppbV	97
16) dichlorofluoromethane	4.924	67	330042	10.236	ppbV	99
17) vinyl bromide	5.183	106	148188	9.704	ppbV	97
18) acrolein	5.300	56	80771	8.759	ppbV	99
19) acetone	5.433	43	1037458	45.949	ppbV	96
20) acetonitrile	5.157	41	150039	9.517	ppbV	98
21) trichlorofluoromethane	5.630	101	304688	10.953	ppbV	98
22) isopropyl alcohol	5.700	45	622828	21.229	ppbV	99
23) acrylonitrile	5.937	53	149320	8.718	ppbV	98
24) pentane	6.017	43	306075	9.071	ppbV	99
25) ethyl ether	6.037	31	341104	9.652	ppbV	99
26) 1,1-dichloroethene	6.312	61	261104	10.410	ppbV	99
27) tertiary butyl alcohol	6.348	59	278326	8.149	ppbV #	76
28) methylene chloride	6.450	49	261309	10.511	ppbV	92
29) 3-chloropropene	6.582	41	255939	9.220	ppbV	96
30) carbon disulfide	6.744	76	599606	9.692	ppbV	98
31) Freon 113	6.750	101	368190	10.221	ppbV	98

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab17\2024\02\0215T\
 Data File : r1738648.D
 Acq On : 15 Feb 2024 2:42 PM
 Operator : AIRLAB17:JMB
 Sample : WG1885731-2,3,250,250
 Misc : WG1885731,ICAL20743
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 15 16:05:50 2024
 Quant Method : O:\Forensics\Data\Airlab17\2024\02\0215T\TFS17_240107.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Mon Jan 08 15:04:31 2024
 Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab17\2024\02\0215T\r1738648.D
 Sub List : Default-LCS-AP2 - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
32) trans-1,2-dichloroethene	7.492	61	261142	10.005	ppbV	97
33) 1,1-dichloroethane	7.708	63	329873	10.008	ppbV	99
34) MTBE	7.775	73	418653	8.596	ppbV	98
35) vinyl acetate	7.892	43	432492	9.652	ppbV	100
36) 2-butanone	8.142	43	430906	9.505	ppbV	99
37) cis-1,2-dichloroethene	8.650	61	243402	9.915	ppbV	99
38) Ethyl Acetate	8.925	61	61906	9.815	ppbV	89
39) chloroform	8.992	83	366328	10.511	ppbV	99
40) Tetrahydrofuran	9.417	42	243580	9.472	ppbV	99
41) 2,2-dichloropropane	9.017	77	266417	9.755	ppbV	91
42) 1,2-dichloroethane	9.825	62	215432	10.846	ppbV	95
44) hexane	8.908	57	312608	9.579	ppbV	99
45) diisopropyl ether	8.900	87	150023	8.739	ppbV	89
46) tert-butyl ethyl ether	9.517	59	490690	8.570	ppbV	99
48) 1,1,1-trichloroethane	10.117	97	295576	10.401	ppbV	97
49) 1,1-dichloropropene	10.483	75	286243	9.291	ppbV	94
50) benzene	10.643	78	683004	9.342	ppbV	99
52) carbon tetrachloride	10.817	117	306674	11.461	ppbV	99
53) cyclohexane	10.963	56	329770	9.449	ppbV	97
54) tert-amyl methyl ether	11.337	73	463087	8.042	ppbV	98
55) dibromomethane	11.557	93	207127	10.607	ppbV	96
56) 1,2-dichloropropane	11.590	63	224424	9.988	ppbV	98
57) bromodichloromethane	11.823	83	368616	10.750	ppbV	99
58) 1,4-dioxane	11.857	88	130420	9.269	ppbV	100
59) trichloroethene	11.877	130	284339	10.222	ppbV	99
60) 2,2,4-trimethylpentane	11.930	57	1004881	9.270	ppbV	97
61) methyl methacrylate	12.123	41	238396	9.778	ppbV	96
62) heptane	12.250	43	435948	9.486	ppbV	96
63) cis-1,3-dichloropropene	12.892	75	323385	8.832	ppbV	96
64) 4-methyl-2-pentanone	12.925	43	503225	9.237	ppbV	99
65) trans-1,3-dichloropropene	13.517	75	258571	9.034	ppbV	96
66) 1,1,2-trichloroethane	13.717	97	250947	10.052	ppbV	98
68) toluene	14.042	91	732085	9.358	ppbV	98
71) 1,3-dichloropropane	14.075	76	364261	9.273	ppbV	94
72) 2-hexanone	14.333	43	454778	8.962	ppbV	97
74) dibromochloromethane	14.500	129	372355	11.273	ppbV	99
75) 1,2-dibromoethane	14.750	107	386716	9.617	ppbV	99
76) butyl acetate	15.008	73	77016	8.527	ppbV	93
77) octane	15.108	85	255707	9.003	ppbV	99
78) tetrachloroethene	15.225	166	298990	9.572	ppbV	94

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab17\2024\02\0215T\
 Data File : r1738648.D
 Acq On : 15 Feb 2024 2:42 PM
 Operator : AIRLAB17:JMB
 Sample : WG1885731-2,3,250,250
 Misc : WG1885731,ICAL20743
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 15 16:05:50 2024
 Quant Method : O:\Forensics\Data\Airlab17\2024\02\0215T\TFS17_240107.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Mon Jan 08 15:04:31 2024
 Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab17\2024\02\0215T\r1738648.D
 Sub List : Default-LCS-AP2 - All compounds listed

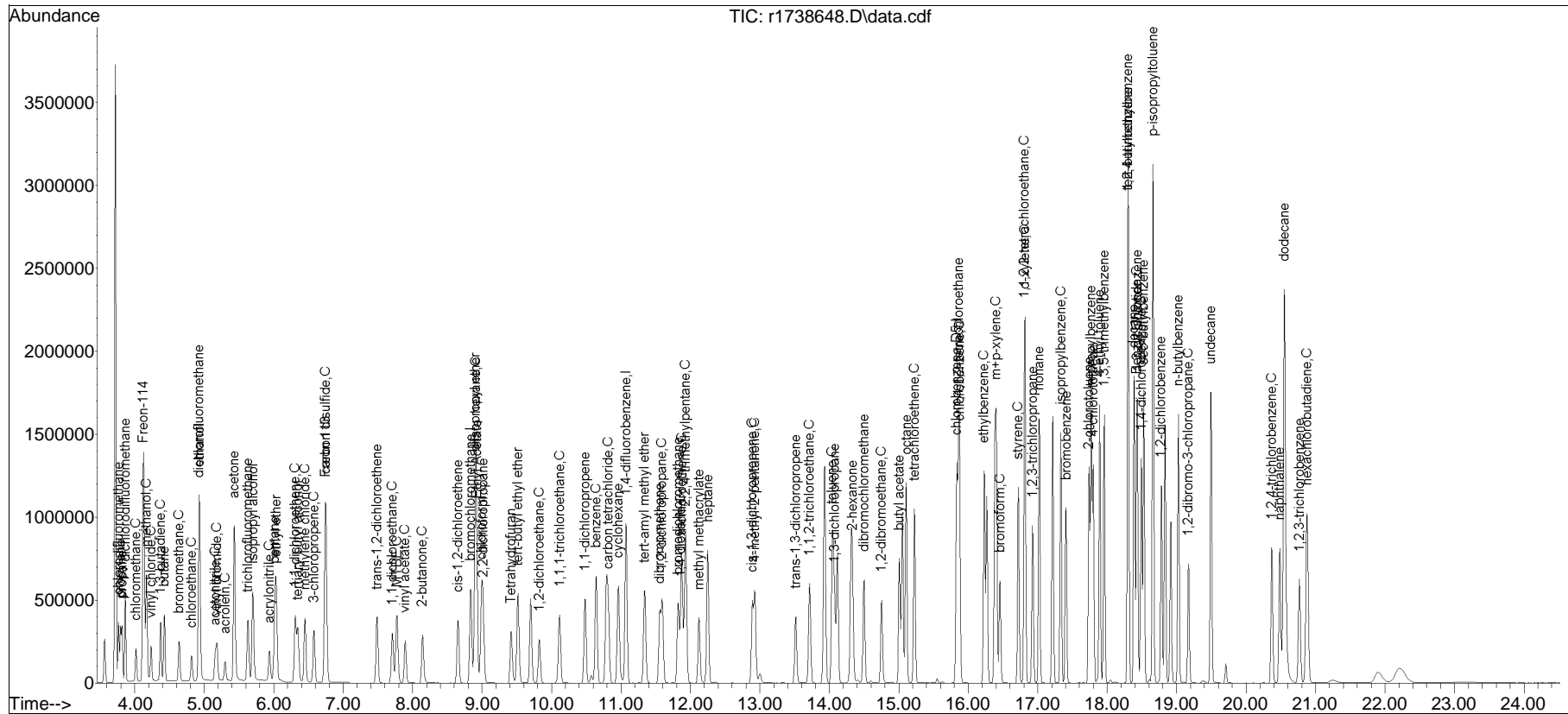
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
79) 1,1,1,2-tetrachloroethane	15.858	131	279683	10.311	ppbV	98
80) chlorobenzene	15.875	112	632438	9.412	ppbV	99
81) ethylbenzene	16.225	91	948345	9.621	ppbV	100
83) m+p-xylene	16.400	91	1525863	19.538	ppbV	96
84) bromoform	16.458	173	293784	11.505	ppbV	100
85) styrene	16.717	104	609324	9.220	ppbV	98
86) 1,1,2,2-tetrachloroethane	16.808	83	586401	9.958	ppbV	99
87) o-xylene	16.817	91	761093	9.738	ppbV	98
88) 1,2,3-trichloropropane	16.925	75	438617	9.337	ppbV	97
89) nonane	17.017	43	642865	8.623	ppbV	92
91) isopropylbenzene	17.333	105	975178	9.327	ppbV	98
92) bromobenzene	17.408	77	555413	9.183	ppbV	96
93) 2-chlorotoluene	17.733	126	286347	9.406	ppbV	99
94) n-propylbenzene	17.767	120	320097	9.644	ppbV	97
95) 4-chlorotoluene	17.800	126	283472	9.738	ppbV	98
96) 4-ethyl toluene	17.892	105	1027298	9.536	ppbV	98
97) 1,3,5-trimethylbenzene	17.958	105	858550	9.241	ppbV	98
98) tert-butylbenzene	18.300	119	864403	9.385	ppbV	99
99) 1,2,4-trimethylbenzene	18.300	105	857074	9.270	ppbV	93
100) decane	18.383	57	625211	8.904	ppbV	93
101) Benzyl Chloride	18.425	91	468096	9.098	ppbV	96
102) 1,3-dichlorobenzene	18.433	146	548853	9.873	ppbV	96
103) 1,4-dichlorobenzene	18.492	146	539794	9.972	ppbV	97
104) sec-butylbenzene	18.525	105	1175583	8.970	ppbV	98
106) p-isopropyltoluene	18.658	119	1021368	9.163	ppbV	99
107) 1,2-dichlorobenzene	18.775	146	515925	9.735	ppbV	97
108) n-butylbenzene	19.025	91	864414	9.043	ppbV	97
111) 1,2-dibromo-3-chloropr...	19.167	75	204494	9.326	ppbV	93
112) undecane	19.492	57	635313	8.476	ppbV	93
114) dodecane	20.550	57	589245	8.176	ppbV	89
115) 1,2,4-trichlorobenzene	20.367	180	294050	8.370	ppbV	98
116) naphthalene	20.483	128	774686	7.937	ppbV	100
117) 1,2,3-trichlorobenzene	20.767	180	248790	8.132	ppbV	97
119) hexachlorobutadiene	20.875	225	314437	9.281	ppbV	98

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

Sub List : Default-LCS-AP2 - All compounds listed5T\r1738648.D

Data Path : O:\Forensics\Data\Airlab17\2024\02\0215T\
Data File : r1738648.D
Acq On : 15 Feb 2024 2:42 PM
Operator : AIRLAB17:JMB
Sample : WG1885731-2,3,250,250
Misc : WG1885731,ICAL20743
ALS Vial : 0 Sample Multiplier: 1

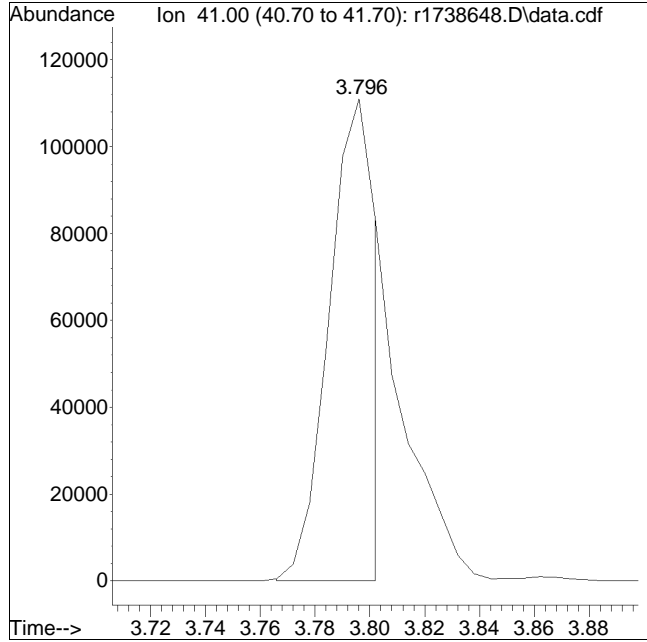
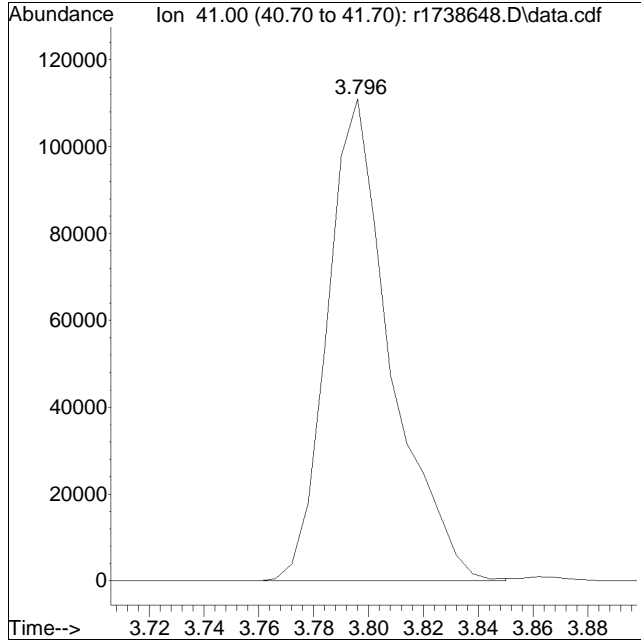
Quant Time: Feb 15 16:05:50 2024
Quant Method : O:\Forensics\Data\Airlab17\2024\02\0215T\TFS17_240107.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Mon Jan 08 15:04:31 2024
Response via : Initial Calibration



Manual Integration Report

Data Path : O:\Forensics\Data\Airlab17QMethod : TFS17_240107.M
Data File : r1738648.D Operator : AIRLAB17:JMB
Date Inj'd : 2/15/2020 0:2: 2 Instrument :
Sample : WG1885731-2,3,250,250 Quant Date : 2/15/2024 4:05 pm

Compound #3: propylene



Original Peak Response = 178380

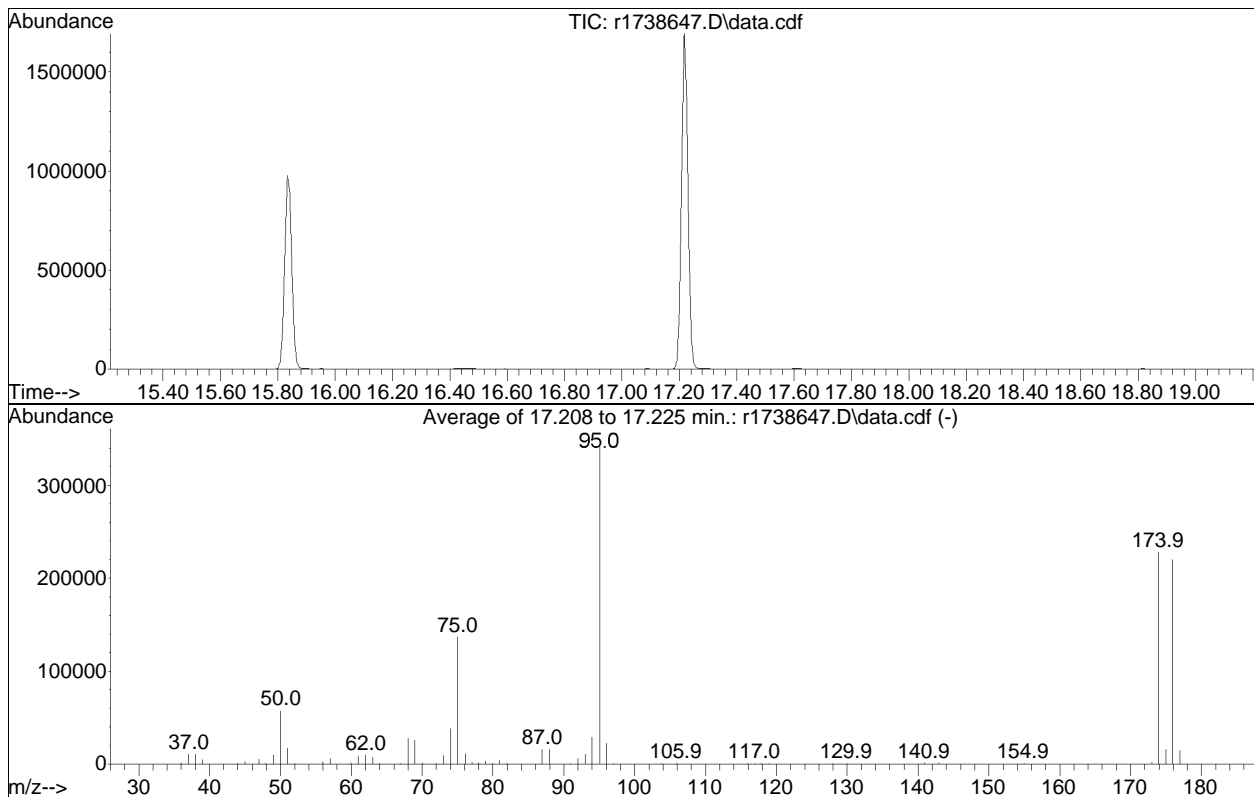
Manual Peak Response = 132101 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Data Path : O:\Forensics\Data\Airlab17\2024\02\0215T\
 Data File : r1738647.D
 Acq On : 15 Feb 2024 2:00 PM
 Operator : AIRLAB17:JMB
 Sample : WG1885731-1,3,250,250
 Misc : WG1885731,ICAL20743
 ALS Vial : 0 Sample Multiplier: 1

Integration File: rteint.p

Method : O:\Forensics\Data\Airlab17\2024\02\0215T\TFS17_240107.M
 Title : TO-14A/TO-15 SIM/Full Scan Analysis
 Last Update : Mon Jan 08 15:04:29 2024



Spectrum Information: Average of 17.208 to 17.225 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	16.8	57656	PASS
75	95	30	66	39.9	137058	PASS
95	95	100	100	100.0	343809	PASS
96	95	5	9	6.6	22693	PASS
173	174	0.00	2	0.7	1661	PASS
174	95	50	120	66.2	227761	PASS
175	174	4	9	7.0	15953	PASS
176	174	93	101	96.7	220338	PASS
177	176	5	9	6.6	14530	PASS

Volatiles Raw QC Data

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab17\2024\02\0215T\
 Data File : r1738651.D
 Acq On : 15 Feb 2024 7:01 PM
 Operator : AIRLAB17:JMB
 Sample : WG1885731-4,3,250,250
 Misc : WG1885731,ICAL20743
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 16 08:02:22 2024
 Quant Method : O:\Forensics\Data\Airlab17\2024\02\0215T\TFS17_240107.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Mon Jan 08 15:04:31 2024
 Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab17\2024\02\0215T\r1738648.D
 Sub List : Default-LCS-AP2 - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	8.850	49	306517	10.000	ppbV	0.00
Standard Area =	370847		Recovery =	82.65%		
43) 1,4-difluorobenzene	11.090	114	792067	10.000	ppbV	0.02
Standard Area =	986523		Recovery =	80.29%		
67) chlorobenzene-D5	15.850	54	113042	10.000	ppbV	0.02
Standard Area =	142298		Recovery =	79.44%		

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) dichlorodifluoromethane	0.000		0		N.D.	
6) chloromethane	4.030		0		N.D.	
7) Freon-114	0.000		0		N.D.	
9) vinyl chloride	0.000		0		N.D.	
10) 1,3-butadiene	0.000		0		N.D.	
13) bromomethane	0.000		0		N.D.	
14) chloroethane	0.000		0		N.D.	
15) ethanol	4.954	31	8174	0.623	ppbV	97
17) vinyl bromide	0.000		0		N.D.	
19) acetone	5.470	43	5199	0.279	ppbV #	78
21) trichlorofluoromethane	0.000		0		N.D.	
22) isopropyl alcohol	5.730		0		N.D.	
26) 1,1-dichloroethene	0.000		0		N.D.	
27) tertiary butyl alcohol	0.000		0		N.D.	
28) methylene chloride	6.468	49	1399	0.068	ppbV	94
29) 3-chloropropene	0.000		0		N.D.	
30) carbon disulfide	6.768		0		N.D.	
31) Freon 113	0.000		0		N.D.	
32) trans-1,2-dichloroethene	0.000		0		N.D.	
33) 1,1-dichloroethane	0.000		0		N.D.	
34) MTBE	0.000		0		N.D.	
36) 2-butanone	0.000		0		N.D.	
37) cis-1,2-dichloroethene	0.000		0		N.D.	
38) Ethyl Acetate	0.000		0		N.D.	
39) chloroform	0.000		0		N.D.	
40) Tetrahydrofuran	0.000		0		N.D.	
42) 1,2-dichloroethane	0.000		0		N.D.	
44) hexane	0.000		0		N.D.	

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab17\2024\02\0215T\
 Data File : r1738651.D
 Acq On : 15 Feb 2024 7:01 PM
 Operator : AIRLAB17:JMB
 Sample : WG1885731-4,3,250,250
 Misc : WG1885731,ICAL20743
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 16 08:02:22 2024
 Quant Method : O:\Forensics\Data\Airlab17\2024\02\0215T\TFS17_240107.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Mon Jan 08 15:04:31 2024
 Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab17\2024\02\0215T\r1738648.D
 Sub List : Default-LCS-AP2 - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
48) 1,1,1-trichloroethane	0.000		0		N.D.	
50) benzene	0.000		0		N.D.	
52) carbon tetrachloride	0.000		0		N.D.	
53) cyclohexane	0.000		0		N.D.	d
56) 1,2-dichloropropane	0.000		0		N.D.	
57) bromodichloromethane	0.000		0		N.D.	
58) 1,4-dioxane	0.000		0		N.D.	
59) trichloroethene	0.000		0		N.D.	
60) 2,2,4-trimethylpentane	0.000		0		N.D.	
62) heptane	0.000		0		N.D.	
63) cis-1,3-dichloropropene	0.000		0		N.D.	
64) 4-methyl-2-pentanone	13.025		0		N.D.	
65) trans-1,3-dichloropropene	0.000		0		N.D.	
66) 1,1,2-trichloroethane	0.000		0		N.D.	
68) toluene	14.067		0		N.D.	
72) 2-hexanone	0.000		0		N.D.	
74) dibromochloromethane	0.000		0		N.D.	
75) 1,2-dibromoethane	0.000		0		N.D.	
78) tetrachloroethene	0.000		0		N.D.	
80) chlorobenzene	0.000		0		N.D.	
81) ethylbenzene	0.000		0		N.D.	
83) m+p-xylene	0.000		0		N.D.	
84) bromoform	0.000		0		N.D.	
85) styrene	0.000		0		N.D.	
86) 1,1,2,2-tetrachloroethane	0.000		0		N.D.	
87) o-xylene	0.000		0		N.D.	
96) 4-ethyl toluene	0.000		0		N.D.	
97) 1,3,5-trimethylbenzene	0.000		0		N.D.	
99) 1,2,4-trimethylbenzene	0.000		0		N.D.	
101) Benzyl Chloride	0.000		0		N.D.	
102) 1,3-dichlorobenzene	0.000		0		N.D.	
103) 1,4-dichlorobenzene	0.000		0		N.D.	
107) 1,2-dichlorobenzene	0.000		0		N.D.	
115) 1,2,4-trichlorobenzene	0.000		0		N.D.	
119) hexachlorobutadiene	0.000		0		N.D.	

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

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab17\2024\02\0215T\
Data File : r1738651.D
Acq On : 15 Feb 2024 7:01 PM
Operator : AIRLAB17:JMB
Sample : WG1885731-4,3,250,250
Misc : WG1885731,ICAL20743
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 16 08:02:22 2024
Quant Method : O:\Forensics\Data\Airlab17\2024\02\0215T\TFS17_240107.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Mon Jan 08 15:04:31 2024
Response via : Initial Calibration

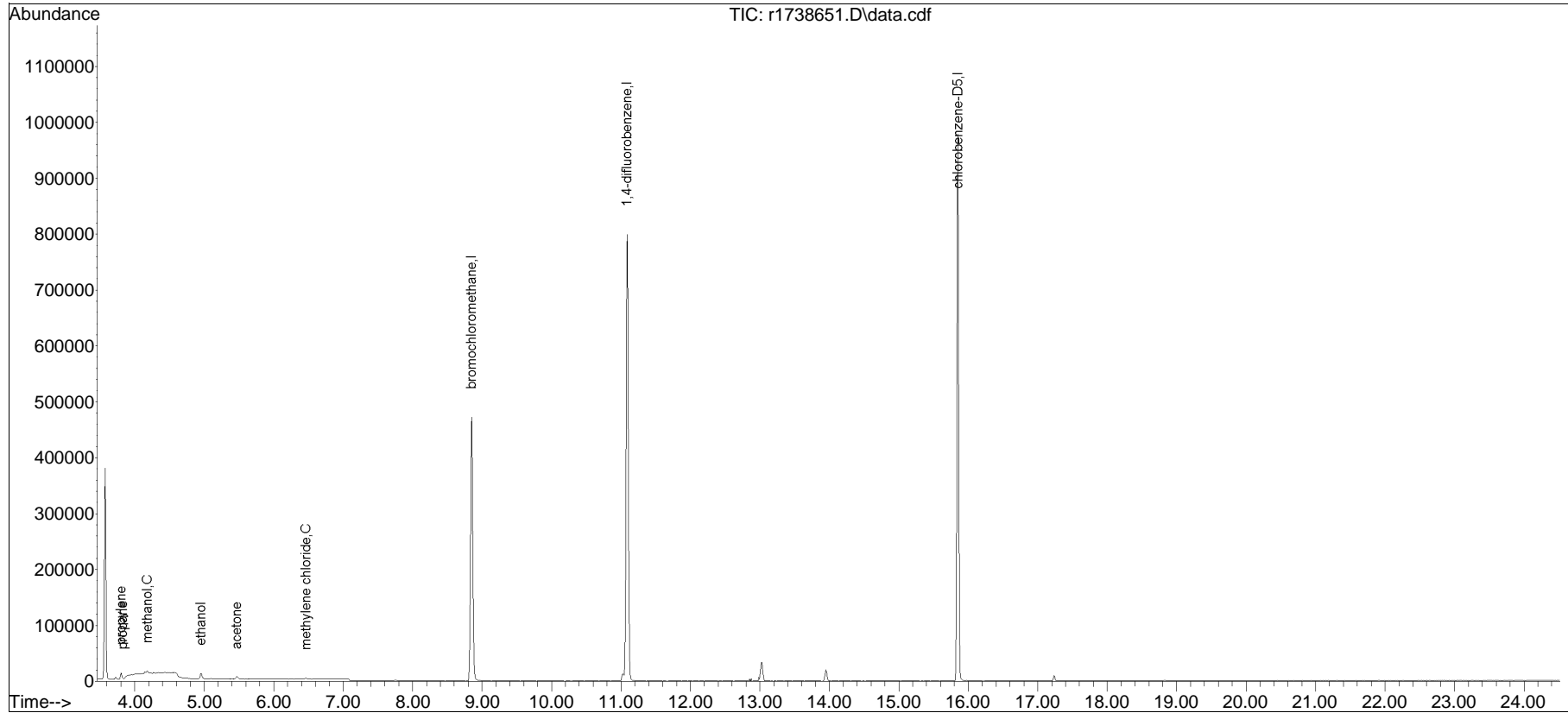
CCAL FILE : O:\Forensics\Data\Airlab17\2024\02\0215T\r1738648.D
Sub List : Default-LCS-AP2 - All compounds listed

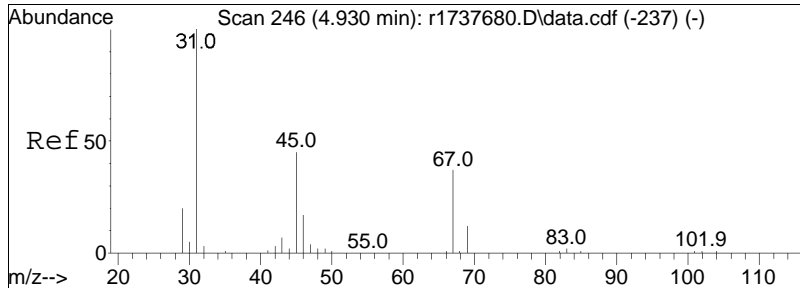
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
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Sub List : Default-LCS-AP2 - All compounds listed5T\r1738648.D

Data Path : O:\Forensics\Data\Airlab17\2024\02\0215T\
Data File : r1738651.D
Acq On : 15 Feb 2024 7:01 PM
Operator : AIRLAB17:JMB
Sample : WG1885731-4,3,250,250
Misc : WG1885731,ICAL20743
ALS Vial : 0 Sample Multiplier: 1

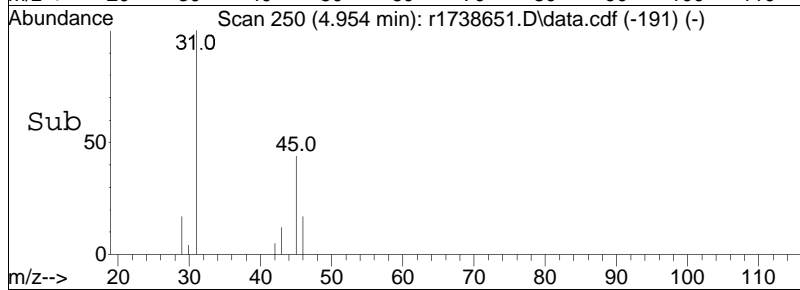
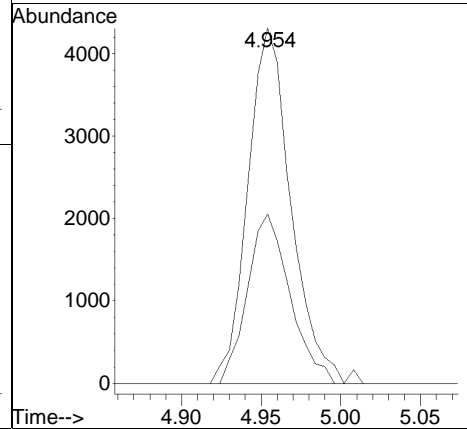
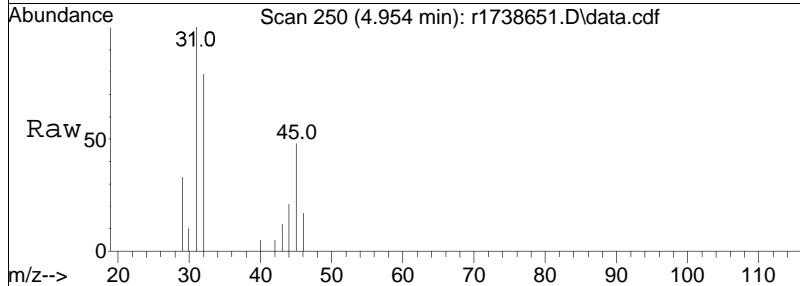
Quant Time: Feb 16 08:02:22 2024
Quant Method : O:\Forensics\Data\Airlab17\2024\02\0215T\TFS17_240107.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Mon Jan 08 15:04:31 2024
Response via : Initial Calibration

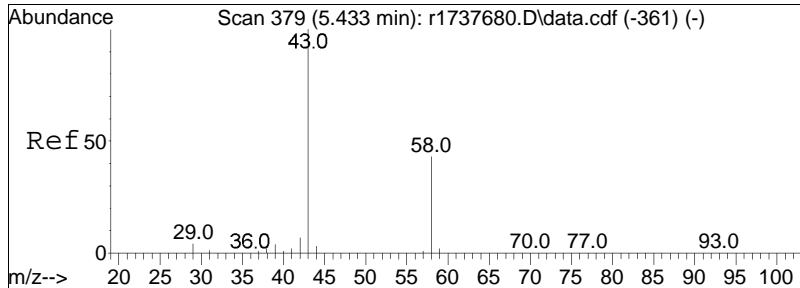




#15
 ethanol
 Concen: 0.62 ppbV
 RT: 4.954 min Scan# 250
 Delta R.T. 0.024 min
 Lab File: r1738651.D
 Acq: 15 Feb 2024 7:01 PM

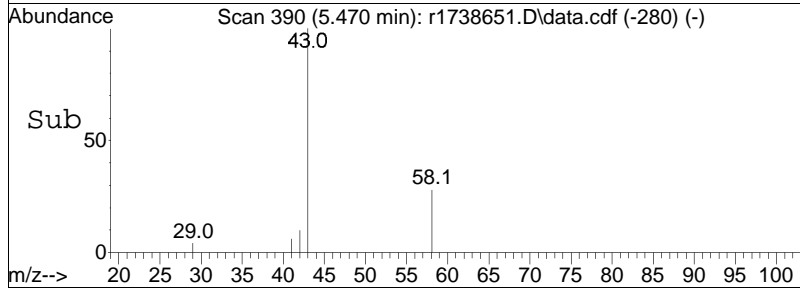
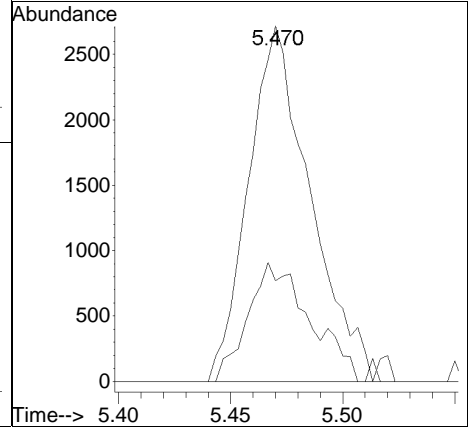
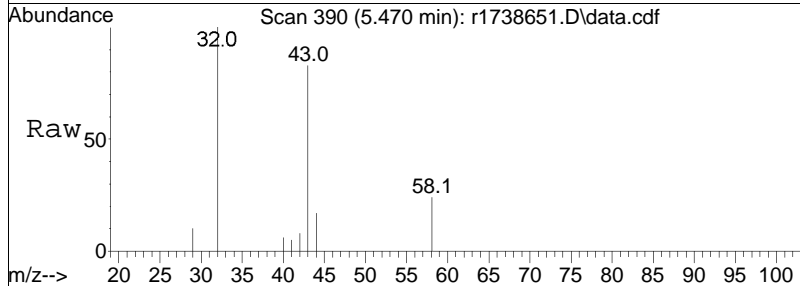
Tgt Ion	Resp	Lower	Upper
31	100		
45	47.7	36.3	54.5

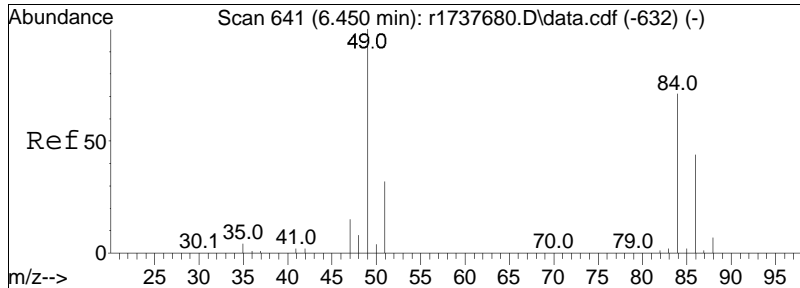




#19
 acetone
 Concen: 0.28 ppbV
 RT: 5.470 min Scan# 390
 Delta R.T. 0.037 min
 Lab File: r1738651.D
 Acq: 15 Feb 2024 7:01 PM

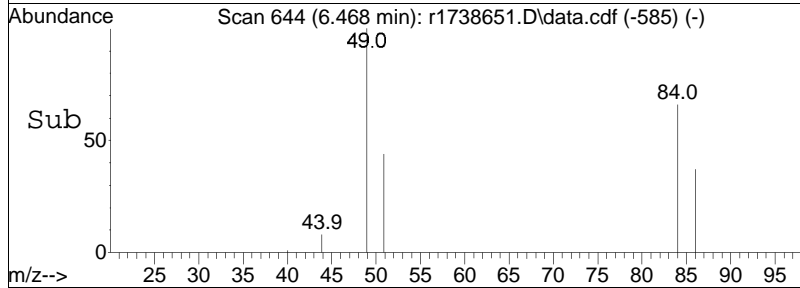
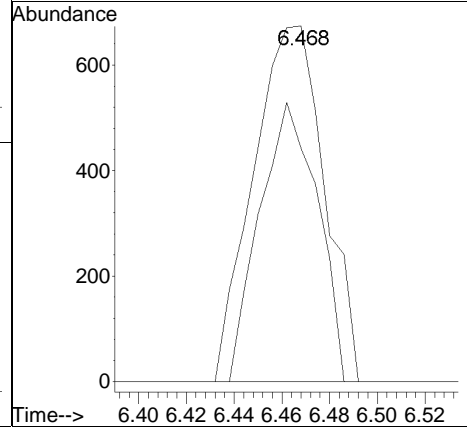
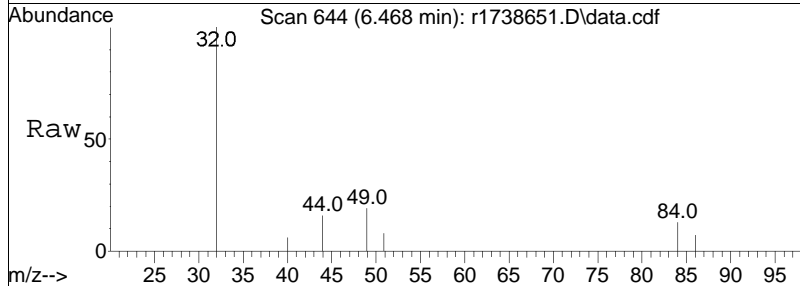
Tgt Ion:	43	Resp:	5199
Ion Ratio	Lower	Upper	
43	100		
58	28.4	34.0	51.0#
57	0.0	0.9	1.3#





#28
 methylene chloride
 Concen: 0.07 ppbV
 RT: 6.468 min Scan# 644
 Delta R.T. 0.018 min
 Lab File: r1738651.D
 Acq: 15 Feb 2024 7:01 PM

Tgt Ion:	49	84	Resp:	1399
Ion Ratio	100	65.6	Lower	Upper
			56.7	85.1



Manual Integration Report

Data Path : O:\Forensics\Data\Airlab17QMethod : TFS17_240107.M
Data File : r1738651.D Operator : AIRLAB17:JMB
Date Inj'd : 2/15/2020 0:7: 1 Instrument :
Sample : WG1885731-4,3,250,250 Quant Date : 2/16/2024 8:02 am

There are no manual integrations or false positives in this file.

Evaluate Continuing Calibration Report

Data Path : O:\Forensics\Data\Airlab17\2024\02\0215T\
 Data File : r1738649.D
 Acq On : 15 Feb 2024 3:25 PM
 Operator : AIRLAB17:JMB
 Sample : WG1885731-3,3,250,250
 Misc : WG1885731,ICAL20743
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 15 16:06:38 2024
 Quant Method : O:\Forensics\Data\Airlab17\2024\02\0215T\TFS17_240107.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Mon Jan 08 15:04:31 2024
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
 Max. RRF Dev : 30% Max. Rel. Area : 140%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	bromochloromethane	10.000	10.000	0.0	76	0.00
2	chlorodifluoromethane	10.000	10.222	-2.2	80	0.00
3	propylene	10.000	9.710	2.9	83	0.00
4	propane	10.000	9.865	1.3	79	0.00
5	dichlorodifluoromethane	10.000	11.962	-19.6	90	0.00
6 C	chloromethane	10.000	9.604	4.0	72	0.00
7	Freon-114	10.000	11.723	-17.2	87	0.00
8 C	methanol	50.000	48.999	2.0	77	0.00
9 C	vinyl chloride	10.000	10.915	-9.1	82	0.00
10 C	1,3-butadiene	10.000	10.599	-6.0	81	0.00
11	butane	10.000	10.086	-0.9	80	0.00
13 C	bromomethane	10.000	11.545	-15.4	87	0.00
14 C	chloroethane	10.000	11.219	-12.2	86	0.00
15	ethanol	50.000	56.823	-13.6	85	0.00
16	dichlorofluoromethane	10.000	11.300	-13.0	90	0.00
17 C	vinyl bromide	10.000	11.048	-10.5	84	0.00
18 C	acrolein	10.000	9.705	2.9	79	0.00
19	acetone	50.000	53.430	-6.9	86	0.00
20 C	acetonitrile	10.000	10.899	-9.0	88	0.00
21	trichlorofluoromethane	10.000	12.913	-29.1	97	0.00
22	isopropyl alcohol	25.000	22.103	11.6	67	0.00
23 C	acrylonitrile	10.000	9.921	0.8	79	0.00
24	pentane	10.000	10.156	-1.6	81	0.00
25	ethyl ether	10.000	11.087	-10.9	93	0.00
26 C	1,1-dichloroethene	10.000	12.076	-20.8	92	0.00
27	tertiary butyl alcohol	10.000	9.985	0.2	78	0.00
28 C	methylene chloride	10.000	12.532	-25.3	101	0.00
29 C	3-chloropropene	10.000	11.587	-15.9	89	0.00
30 C	carbon disulfide	10.000	10.779	-7.8	79	0.00
31	Freon 113	10.000	11.972	-19.7	90	0.00
32	trans-1,2-dichloroethene	10.000	11.579	-15.8	87	0.00
33 C	1,1-dichloroethane	10.000	11.630	-16.3	87	0.00
34 C	MTBE	10.000	10.391	-3.9	79	0.00
35 C	vinyl acetate	10.000	10.488	-4.9	78	0.00
36 C	2-butanone	10.000	11.215	-12.1	84	0.00
37	cis-1,2-dichloroethene	10.000	11.688	-16.9	87	0.00
38	Ethyl Acetate	10.000	12.050	-20.5	91	0.00
39 C	chloroform	10.000	12.137	-21.4	92	0.00
40	Tetrahydrofuran	10.000	10.969	-9.7	81	0.00

Evaluate Continuing Calibration Report

Data Path : O:\Forensics\Data\Airlab17\2024\02\0215T\
 Data File : r1738649.D
 Acq On : 15 Feb 2024 3:25 PM
 Operator : AIRLAB17:JMB
 Sample : WG1885731-3,3,250,250
 Misc : WG1885731,ICAL20743
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 15 16:06:38 2024
 Quant Method : O:\Forensics\Data\Airlab17\2024\02\0215T\TFS17_240107.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Mon Jan 08 15:04:31 2024
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
 Max. RRF Dev : 30% Max. Rel. Area : 140%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
41	2,2-dichloropropane	10.000	11.057	-10.6	86	0.00
42 C	1,2-dichloroethane	10.000	12.510	-25.1	97	0.00
43 I	1,4-difluorobenzene	10.000	10.000	0.0	77	0.00
44 C	hexane	10.000	11.511	-15.1	90	0.00
45	diisopropyl ether	10.000	10.098	-1.0	81	0.00
46	tert-butyl ethyl ether	10.000	9.829	1.7	78	0.00
48 C	1,1,1-trichloroethane	10.000	11.976	-19.8	92	0.00
49	1,1-dichloropropene	10.000	10.985	-9.8	87	0.00
50 C	benzene	10.000	10.530	-5.3	80	0.00
52 C	carbon tetrachloride	10.000	13.254	-32.5#	98	0.00
53	cyclohexane	10.000	11.432	-14.3	89	0.00
54	tert-amyl methyl ether	10.000	9.330	6.7	74	0.00
55	dibromomethane	10.000	12.003	-20.0	95	0.00
56 C	1,2-dichloropropane	10.000	11.439	-14.4	86	0.00
57	bromodichloromethane	10.000	13.218	-32.2#	99	0.00
58 C	1,4-dioxane	10.000	11.733	-17.3	89	0.00
59 C	trichloroethene	10.000	11.730	-17.3	89	0.00
60 C	2,2,4-trimethylpentane	10.000	11.221	-12.2	91	0.00
61	methyl methacrylate	10.000	12.304	-23.0	92	0.00
62	heptane	10.000	11.451	-14.5	87	0.00
63 C	cis-1,3-dichloropropene	10.000	10.466	-4.7	77	0.00
64 C	4-methyl-2-pentanone	10.000	11.402	-14.0	85	0.00
65	trans-1,3-dichloropropene	10.000	10.674	-6.7	78	0.00
66 C	1,1,2-trichloroethane	10.000	11.692	-16.9	88	0.00
67 I	chlorobenzene-D5	10.000	10.000	0.0	81	0.00
68 C	toluene	10.000	10.680	-6.8	85	0.00
71	1,3-dichloropropane	10.000	10.430	-4.3	86	0.00
72	2-hexanone	10.000	10.746	-7.5	80	0.00
74	dibromochloromethane	10.000	14.179	-41.8#	108	0.00
75 C	1,2-dibromoethane	10.000	11.106	-11.1	87	0.00
76	butyl acetate	10.000	9.799	2.0	77	0.00
77	octane	10.000	10.129	-1.3	85	0.00
78 C	tetrachloroethene	10.000	10.952	-9.5	87	0.00
79	1,1,1,2-tetrachloroethane	10.000	11.771	-17.7	95	0.00
80 C	chlorobenzene	10.000	10.810	-8.1	85	0.00
81 C	ethylbenzene	10.000	10.988	-9.9	85	0.00
83 C	m+p-xylene	20.000	22.575	-12.9	88	0.00

Evaluate Continuing Calibration Report

Data Path : O:\Forensics\Data\Airlab17\2024\02\0215T\
 Data File : r1738649.D
 Acq On : 15 Feb 2024 3:25 PM
 Operator : AIRLAB17:JMB
 Sample : WG1885731-3,3,250,250
 Misc : WG1885731,ICAL20743
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 15 16:06:38 2024
 Quant Method : O:\Forensics\Data\Airlab17\2024\02\0215T\TFS17_240107.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Mon Jan 08 15:04:31 2024
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
 Max. RRF Dev : 30% Max. Rel. Area : 140%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
84 C	bromoform	10.000	14.451	-44.5#	107	0.00
85 C	styrene	10.000	10.751	-7.5	81	0.00
86 C	1,1,2,2-tetrachloroethane	10.000	11.877	-18.8	93	0.00
87 C	o-xylene	10.000	11.465	-14.6	89	0.00
88	1,2,3-trichloropropane	10.000	10.740	-7.4	89	0.00
89	nonane	10.000	9.776	2.2	79	0.00
91 C	isopropylbenzene	10.000	11.109	-11.1	92	0.00
92	bromobenzene	10.000	10.575	-5.7	88	0.00
93	2-chlorotoluene	10.000	10.717	-7.2	88	0.00
94	n-propylbenzene	10.000	11.193	-11.9	93	0.00
95	4-chlorotoluene	10.000	11.109	-11.1	90	0.00
96	4-ethyl toluene	10.000	11.468	-14.7	91	0.00
97	1,3,5-trimethylbenzene	10.000	11.106	-11.1	87	0.00
98	tert-butylbenzene	10.000	10.918	-9.2	89	0.00
99	1,2,4-trimethylbenzene	10.000	11.031	-10.3	85	0.00
100	decane	10.000	10.353	-3.5	86	0.00
101 C	Benzyl Chloride	10.000	11.020	-10.2	84	0.00
102	1,3-dichlorobenzene	10.000	11.869	-18.7	91	0.00
103 C	1,4-dichlorobenzene	10.000	11.699	-17.0	88	0.00
104	sec-butylbenzene	10.000	10.415	-4.1	86	0.00
106	p-isopropyltoluene	10.000	9.719	2.8	80	0.00
107	1,2-dichlorobenzene	10.000	11.418	-14.2	89	0.00
108	n-butylbenzene	10.000	10.688	-6.9	89	0.00
111 C	1,2-dibromo-3-chloropropane	10.000	10.790	-7.9	87	0.00
112	undecane	10.000	9.998	0.0	82	0.02
114	dodecane	10.000	9.533	4.7	76	0.04
115 C	1,2,4-trichlorobenzene	10.000	9.523	4.8	69	0.02
116	naphthalene	10.000	9.218	7.8	77	0.02
117	1,2,3-trichlorobenzene	10.000	9.831	1.7	82	0.02
119 C	hexachlorobutadiene	10.000	10.925	-9.3	82	0.03

* Evaluation of CC level amount vs concentration.
 (#) = Out of Range SPCC's out = 0 CCC's out = 2

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab17\2024\02\0215T\
 Data File : r1738649.D
 Acq On : 15 Feb 2024 3:25 PM
 Operator : AIRLAB17:JMB
 Sample : WG1885731-3,3,250,250
 Misc : WG1885731,ICAL20743
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 15 16:06:38 2024
 Quant Method : O:\Forensics\Data\Airlab17\2024\02\0215T\TFS17_240107.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Mon Jan 08 15:04:31 2024
 Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab17\2024\02\0215T\r1738648.D
 Sub List : Default-LCS-AP2 - All compounds listed

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

Internal Standards						
1) bromochloromethane	8.842	49	325173	10.000	ppbV	0.00
Standard Area =	370847		Recovery =		87.68%	
43) 1,4-difluorobenzene	11.077	114	861372	10.000	ppbV	0.00
Standard Area =	986523		Recovery =		87.31%	
67) chlorobenzene-D5	15.833	54	124696	10.000	ppbV	0.00
Standard Area =	142298		Recovery =		87.63%	

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) dichlorodifluoromethane	3.862	85	368686	11.962	ppbV	99
6) chloromethane	4.018	50	157268	9.604	ppbV	100
7) Freon-114	4.120	85	440000	11.723	ppbV	99
9) vinyl chloride	4.234	62	185467	10.915	ppbV	100
10) 1,3-butadiene	4.372	54	155058	10.599	ppbV	87
13) bromomethane	4.642	94	161127	11.545	ppbV	99
14) chloroethane	4.822	64	88091	11.219	ppbV	98
15) ethanol	4.936	31	790827	56.823	ppbV	96
17) vinyl bromide	5.183	106	147943	11.048	ppbV	98
19) acetone	5.433	43	1057789	53.430	ppbV	99
21) trichlorofluoromethane	5.630	101	314968	12.913	ppbV	100
22) isopropyl alcohol	5.703	45	568610	22.103	ppbV	99
26) 1,1-dichloroethene	6.312	61	265595	12.076	ppbV	97
27) tertiary butyl alcohol	6.354	59	299039	9.985	ppbV #	80
28) methylene chloride	6.450	49	273182	12.532	ppbV	93
29) 3-chloropropene	6.582	41	282046	11.587	ppbV	96
30) carbon disulfide	6.744	76	584775	10.779	ppbV	99
31) Freon 113	6.750	101	378146	11.972	ppbV	98
32) trans-1,2-dichloroethene	7.492	61	264993	11.579	ppbV	97
33) 1,1-dichloroethane	7.708	63	336132	11.630	ppbV	99
34) MTBE	7.775	73	443720	10.391	ppbV	99
36) 2-butanone	8.150	43	445781	11.215	ppbV	100
37) cis-1,2-dichloroethene	8.658	61	251581	11.688	ppbV	97
38) Ethyl Acetate	8.925	61	66639	12.050	ppbV	94
39) chloroform	8.992	83	370902	12.137	ppbV	99
40) Tetrahydrofuran	9.425	42	247322	10.969	ppbV	99
42) 1,2-dichloroethane	9.825	62	217875	12.510	ppbV	95
44) hexane	8.908	57	328024	11.511	ppbV	85

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab17\2024\02\0215T\
 Data File : r1738649.D
 Acq On : 15 Feb 2024 3:25 PM
 Operator : AIRLAB17:JMB
 Sample : WG1885731-3,3,250,250
 Misc : WG1885731,ICAL20743
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 15 16:06:38 2024
 Quant Method : O:\Forensics\Data\Airlab17\2024\02\0215T\TFS17_240107.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Mon Jan 08 15:04:31 2024
 Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab17\2024\02\0215T\r1738648.D
 Sub List : Default-LCS-AP2 - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
48) 1,1,1-trichloroethane	10.117	97	297165	11.976	ppbV	97
50) benzene	10.643	78	672218	10.530	ppbV	100
52) carbon tetrachloride	10.817	117	309664	13.254	ppbV	99
53) cyclohexane	10.963	56	348349	11.432	ppbV	97
56) 1,2-dichloropropane	11.597	63	224432	11.439	ppbV	98
57) bromodichloromethane	11.823	83	395726	13.218	ppbV	98
58) 1,4-dioxane	11.863	88	144146	11.733	ppbV	98
59) trichloroethene	11.877	130	284902	11.730	ppbV	99
60) 2,2,4-trimethylpentane	11.930	57	1062006	11.221	ppbV	98
62) heptane	12.250	43	459511	11.451	ppbV	96
63) cis-1,3-dichloropropene	12.892	75	334596	10.466	ppbV	98
64) 4-methyl-2-pentanone	12.933	43	542388	11.402	ppbV	99
65) trans-1,3-dichloropropene	13.517	75	266775	10.674	ppbV	97
66) 1,1,2-trichloroethane	13.717	97	254858	11.692	ppbV	98
68) toluene	14.050	91	732156	10.680	ppbV	99
72) 2-hexanone	14.342	43	477822	10.746	ppbV	99
74) dibromochloromethane	14.500	129	410379	14.179	ppbV	98
75) 1,2-dibromoethane	14.758	107	391321	11.106	ppbV	100
78) tetrachloroethene	15.225	166	299787	10.952	ppbV	95
80) chlorobenzene	15.875	112	636544	10.810	ppbV	99
81) ethylbenzene	16.233	91	949106	10.988	ppbV	100
83) m+p-xylene	16.400	91	1544940	22.575	ppbV	98
84) bromoform	16.458	173	323366	14.451	ppbV	98
85) styrene	16.725	104	622599	10.751	ppbV	97
86) 1,1,2,2-tetrachloroethane	16.817	83	612884	11.877	ppbV	99
87) o-xylene	16.817	91	785201	11.465	ppbV	98
96) 4-ethyl toluene	17.892	105	1082634	11.468	ppbV	96
97) 1,3,5-trimethylbenzene	17.958	105	904181	11.106	ppbV	98
99) 1,2,4-trimethylbenzene	18.308	105	893739	11.031	ppbV	99
101) Benzyl Chloride	18.425	91	496844	11.020	ppbV	99
102) 1,3-dichlorobenzene	18.433	146	578197	11.869	ppbV	96
103) 1,4-dichlorobenzene	18.492	146	554941	11.699	ppbV	96
107) 1,2-dichlorobenzene	18.783	146	530254	11.418	ppbV	100
115) 1,2,4-trichlorobenzene	20.375	180	293188	9.523	ppbV	96
119) hexachlorobutadiene	20.883	225	324350	10.925	ppbV	97

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

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab17\2024\02\0215T\
Data File : r1738649.D
Acq On : 15 Feb 2024 3:25 PM
Operator : AIRLAB17:JMB
Sample : WG1885731-3,3,250,250
Misc : WG1885731,ICAL20743
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 15 16:06:38 2024
Quant Method : O:\Forensics\Data\Airlab17\2024\02\0215T\TFS17_240107.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Mon Jan 08 15:04:31 2024
Response via : Initial Calibration

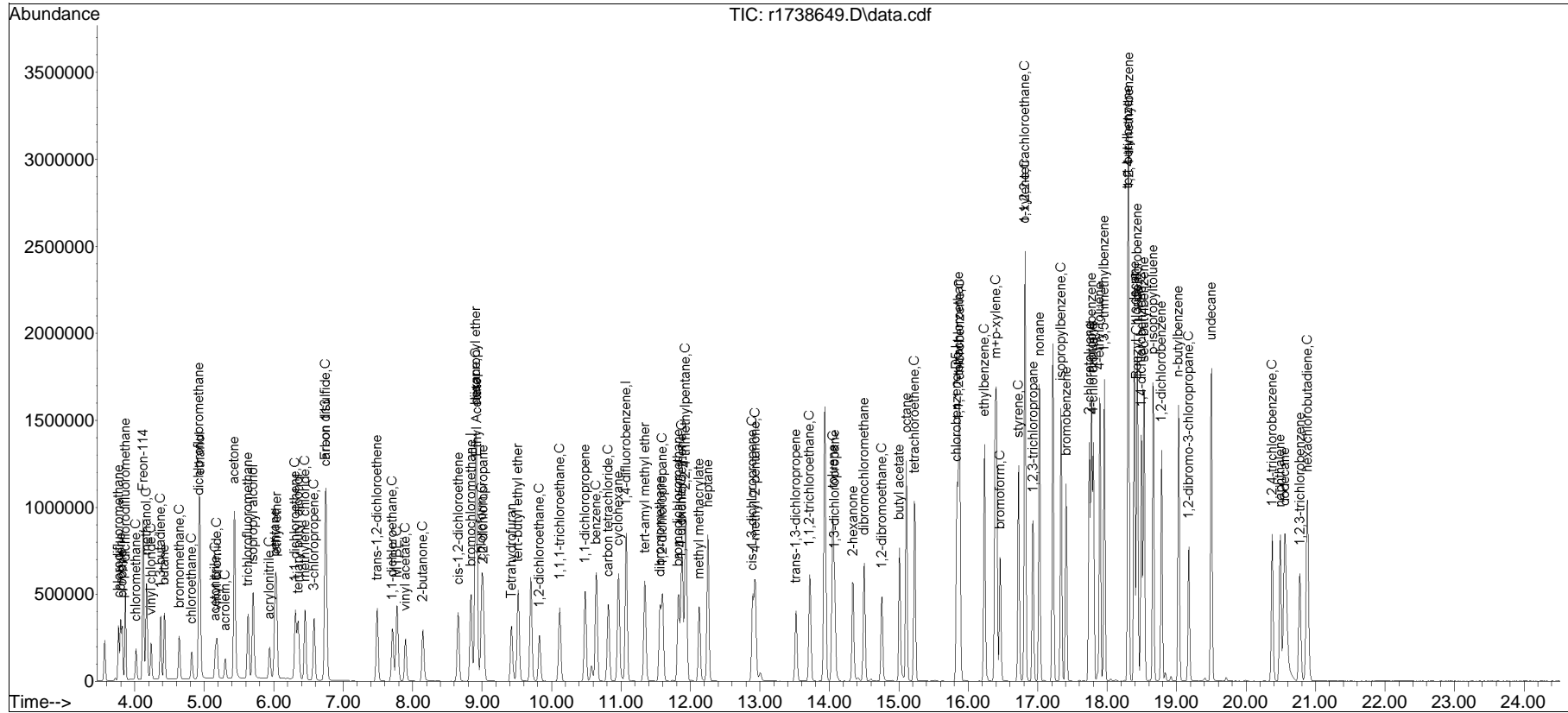
CCAL FILE : O:\Forensics\Data\Airlab17\2024\02\0215T\r1738648.D
Sub List : Default-LCS-AP2 - All compounds listed

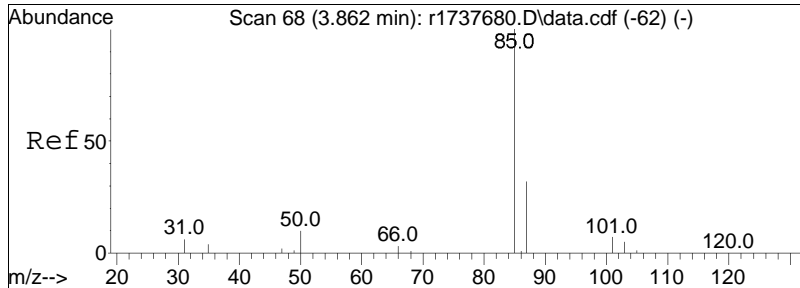
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
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Sub List : Default-LCS-AP2 - All compounds listed5T\r1738648.D

Data Path : O:\Forensics\Data\Airlab17\2024\02\0215T\
Data File : r1738649.D
Acq On : 15 Feb 2024 3:25 PM
Operator : AIRLAB17:JMB
Sample : WG1885731-3,3,250,250
Misc : WG1885731,ICAL20743
ALS Vial : 0 Sample Multiplier: 1

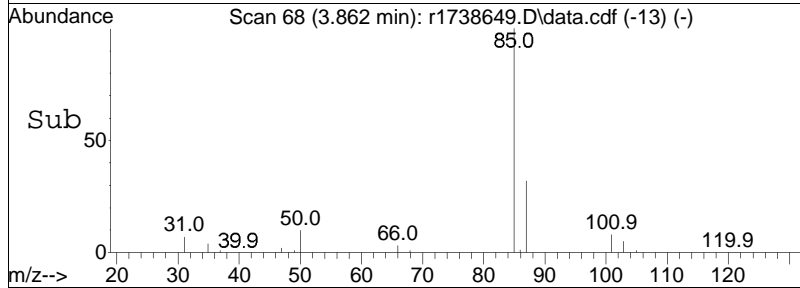
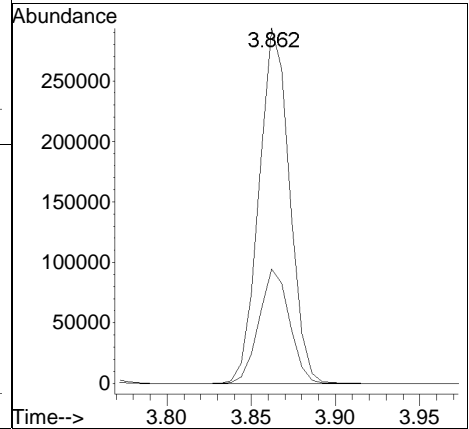
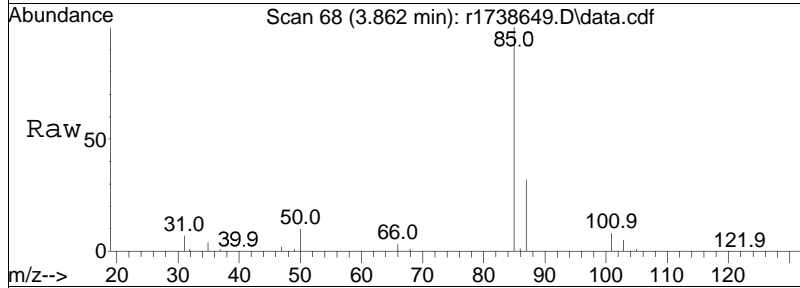
Quant Time: Feb 15 16:06:38 2024
Quant Method : O:\Forensics\Data\Airlab17\2024\02\0215T\TFS17_240107.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Mon Jan 08 15:04:31 2024
Response via : Initial Calibration

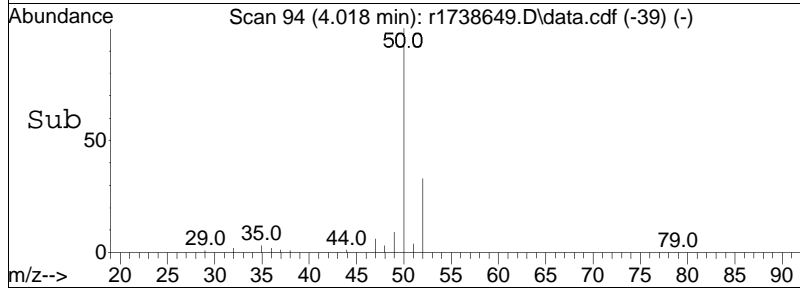
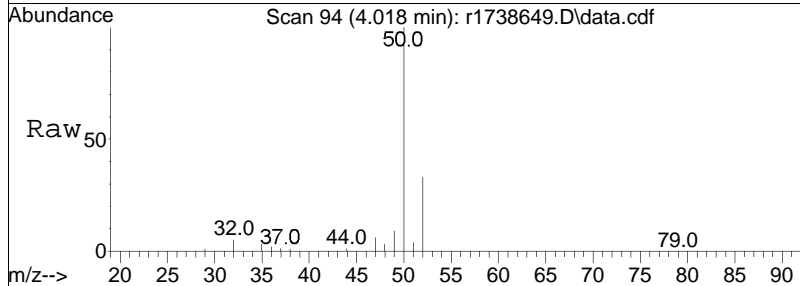
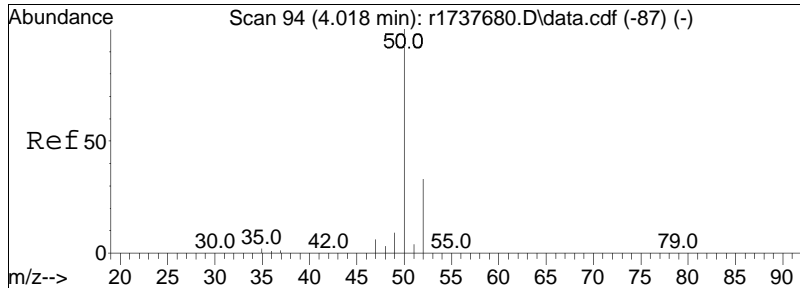




#5
dichlorodifluoromethane
Concen: 11.96 ppbV
RT: 3.862 min Scan# 68
Delta R.T. 0.000 min
Lab File: r1738649.D
Acq: 15 Feb 2024 3:25 PM

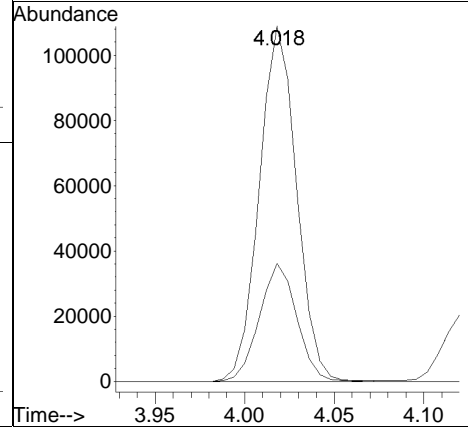
Tgt Ion: 85 Resp: 368686
Ion Ratio Lower Upper
85 100
87 32.2 25.4 38.0

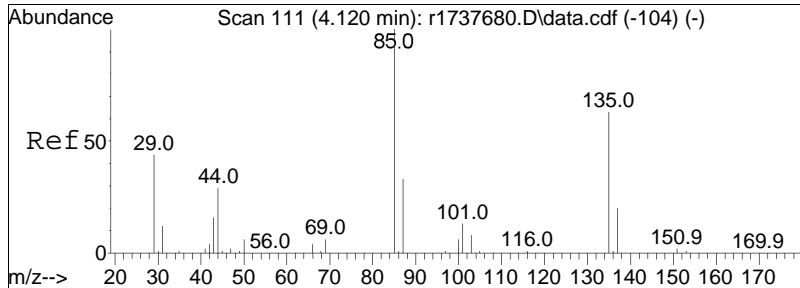




#6
 chloromethane
 Concen: 9.60 ppbV
 RT: 4.018 min Scan# 94
 Delta R.T. 0.000 min
 Lab File: r1738649.D
 Acq: 15 Feb 2024 3:25 PM

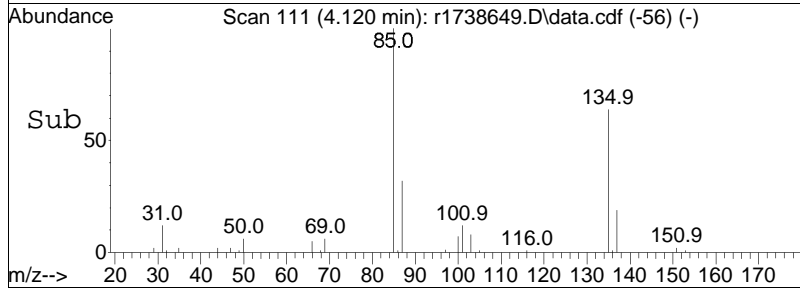
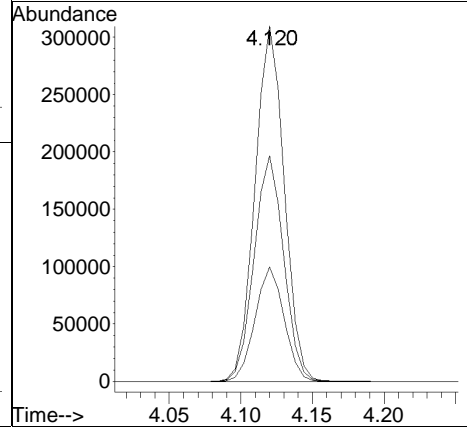
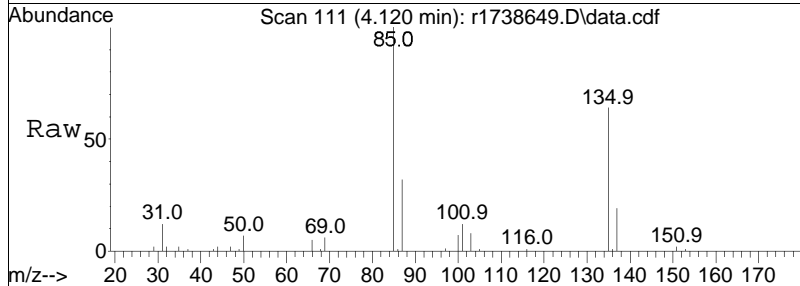
Tgt Ion	Resp	Lower	Upper
50	157268		
52	33.2	26.4	39.6

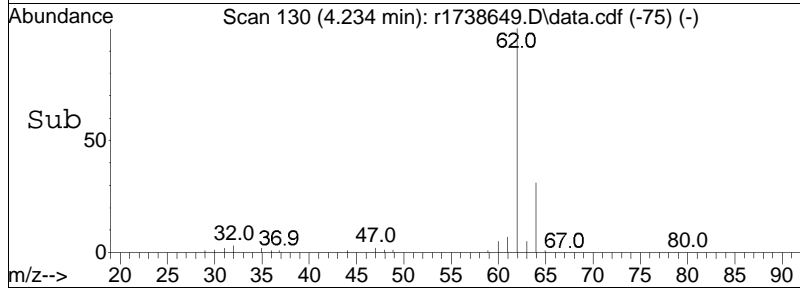
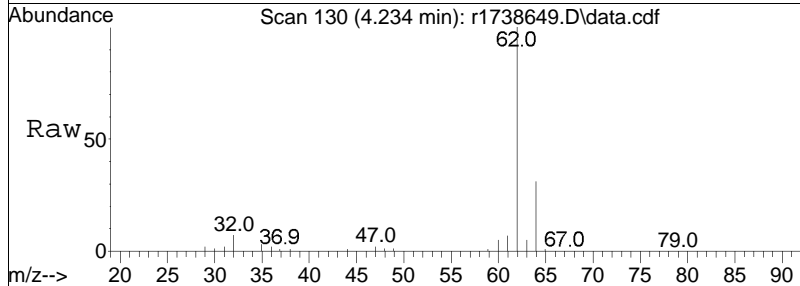
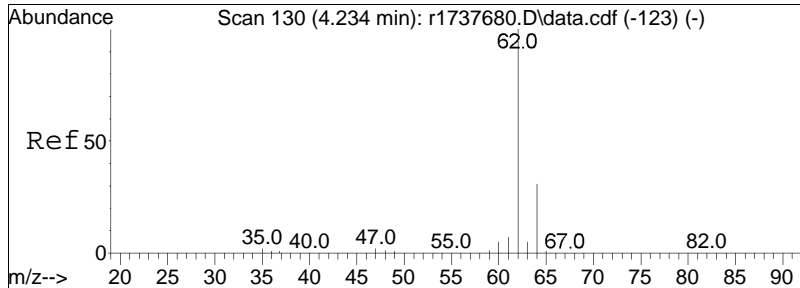




#7
 Freon-114
 Concen: 11.72 ppbV
 RT: 4.120 min Scan# 111
 Delta R.T. 0.000 min
 Lab File: r1738649.D
 Acq: 15 Feb 2024 3:25 PM

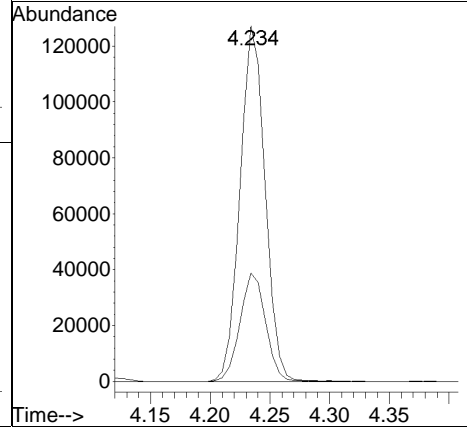
Tgt Ion	Resp	Lower	Upper
85	440000		
87	32.2	26.2	39.4
135	63.6	50.6	75.8

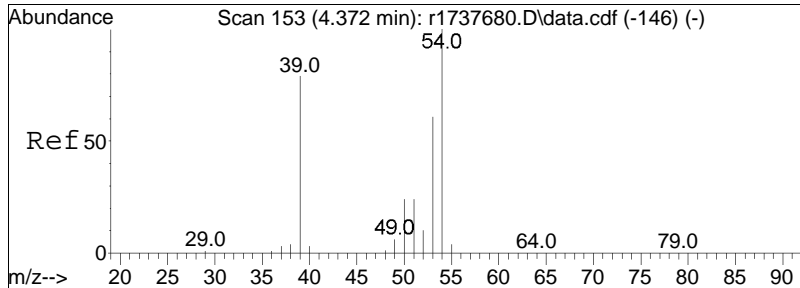




#9
 vinyl chloride
 Concen: 10.92 ppbV
 RT: 4.234 min Scan# 130
 Delta R.T. 0.000 min
 Lab File: r1738649.D
 Acq: 15 Feb 2024 3:25 PM

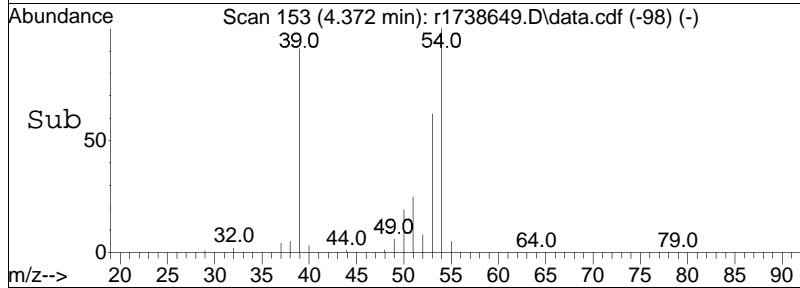
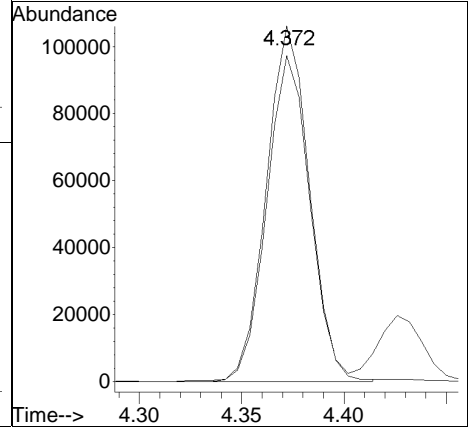
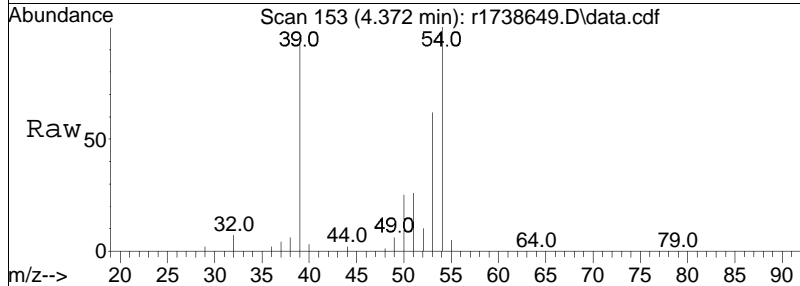
Tgt Ion:	Resp:	Lower	Upper
62	185467		
64	30.5	24.5	36.7

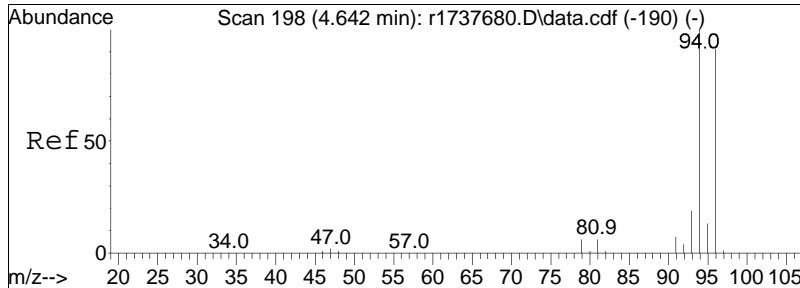




#10
 1,3-butadiene
 Concen: 10.60 ppbV
 RT: 4.372 min Scan# 153
 Delta R.T. 0.000 min
 Lab File: r1738649.D
 Acq: 15 Feb 2024 3:25 PM

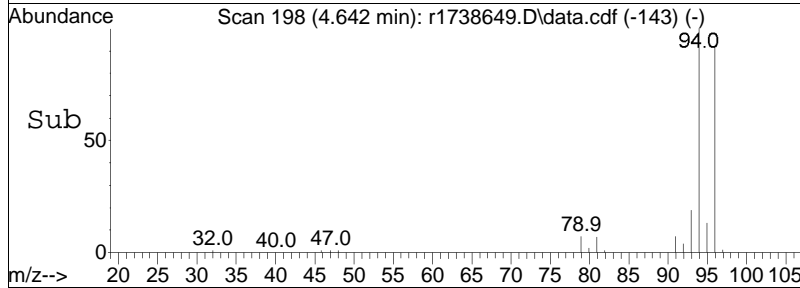
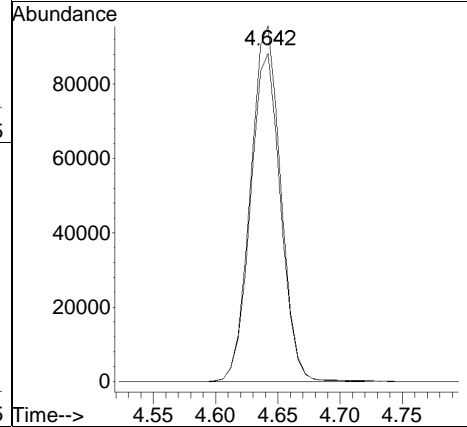
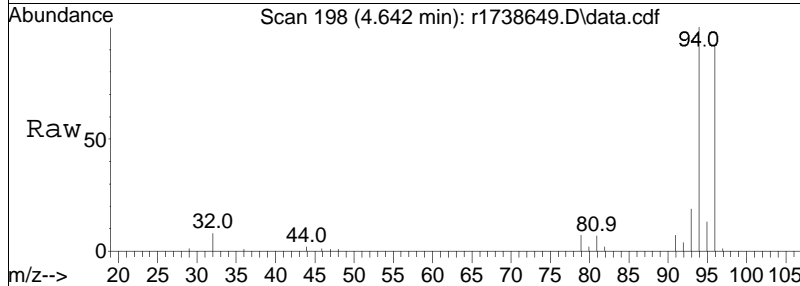
Tgt Ion	Resp	Lower	Upper
54	100		
39	91.6	63.8	95.8

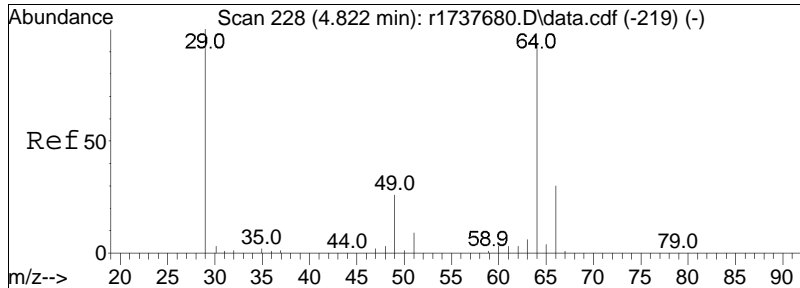




#13
 bromomethane
 Concen: 11.54 ppbV
 RT: 4.642 min Scan# 198
 Delta R.T. 0.000 min
 Lab File: r1738649.D
 Acq: 15 Feb 2024 3:25 PM

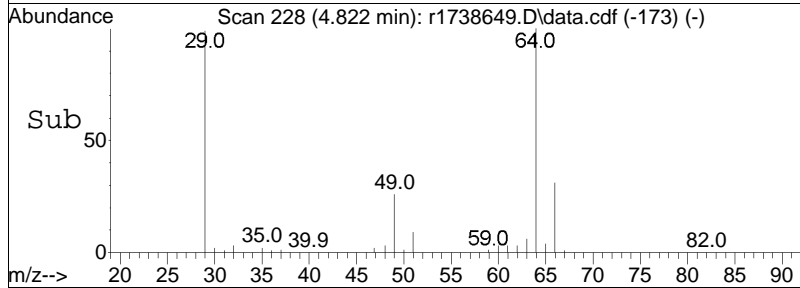
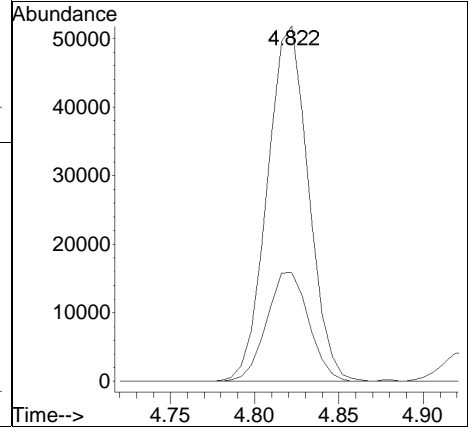
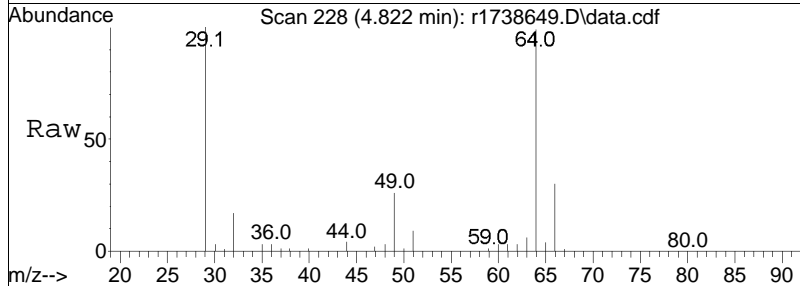
Tgt Ion: 94 Resp: 161127
 Ion Ratio Lower Upper
 94 100
 96 92.3 73.2 109.8

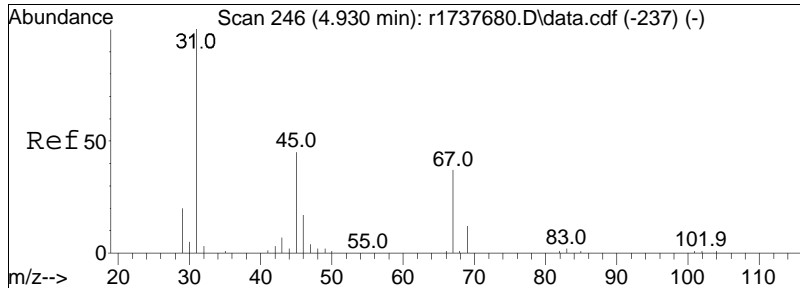




#14
 chloroethane
 Concen: 11.22 ppbV
 RT: 4.822 min Scan# 228
 Delta R.T. 0.000 min
 Lab File: r1738649.D
 Acq: 15 Feb 2024 3:25 PM

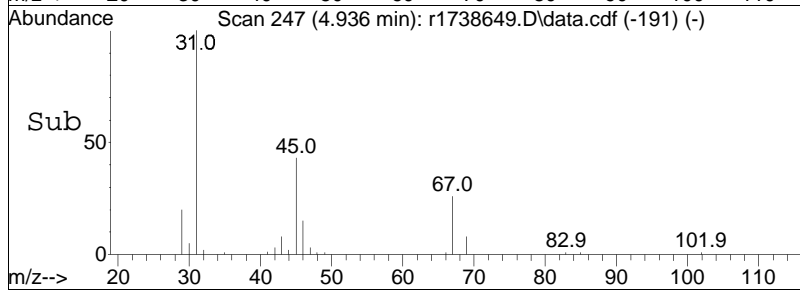
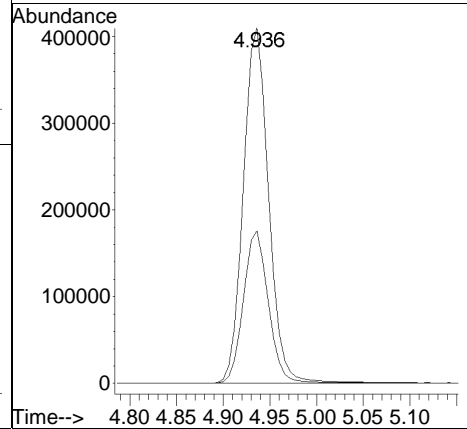
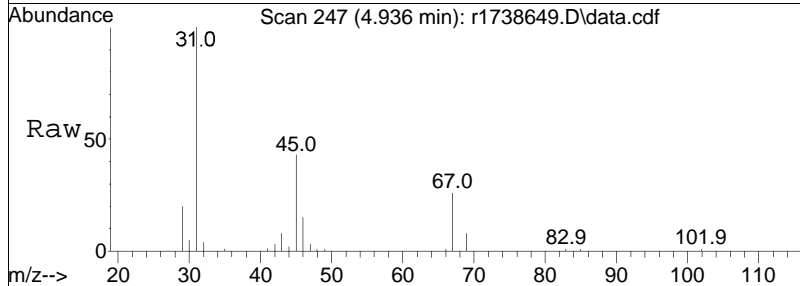
Tgt Ion: 64 Resp: 88091
 Ion Ratio Lower Upper
 64 100
 66 30.6 25.5 38.3

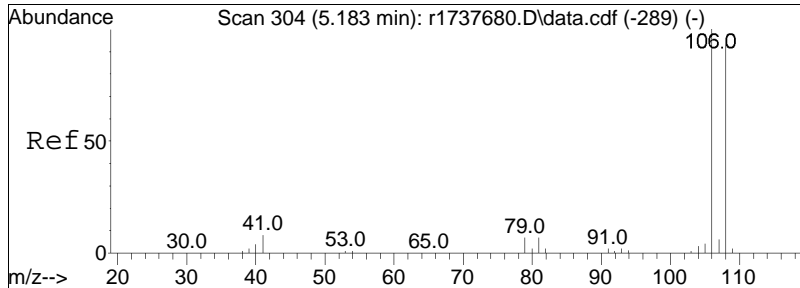




#15
 ethanol
 Concen: 56.82 ppbV
 RT: 4.936 min Scan# 247
 Delta R.T. 0.006 min
 Lab File: r1738649.D
 Acq: 15 Feb 2024 3:25 PM

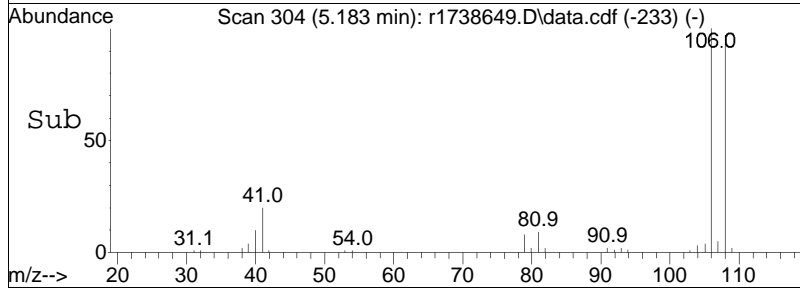
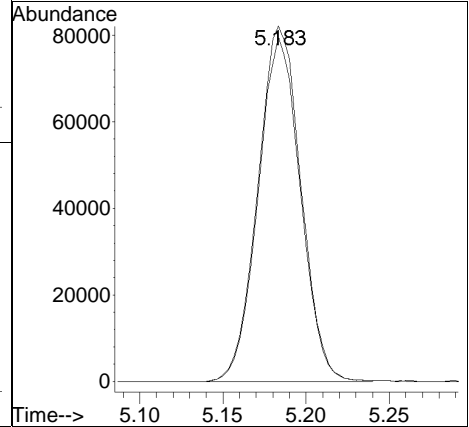
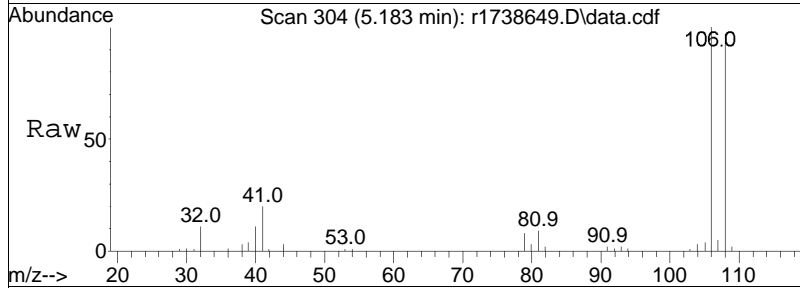
Tgt Ion:	Resp:	Lower	Upper
31	100		
45	43.0	36.3	54.5

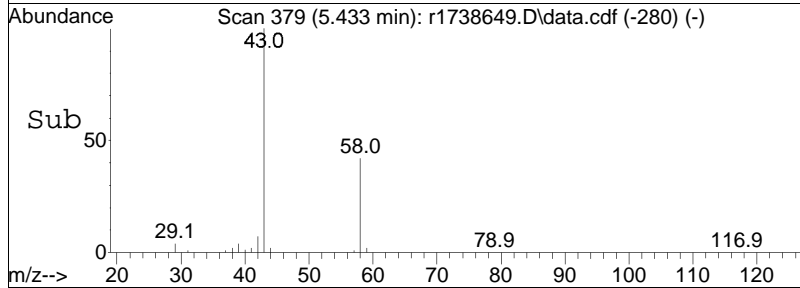
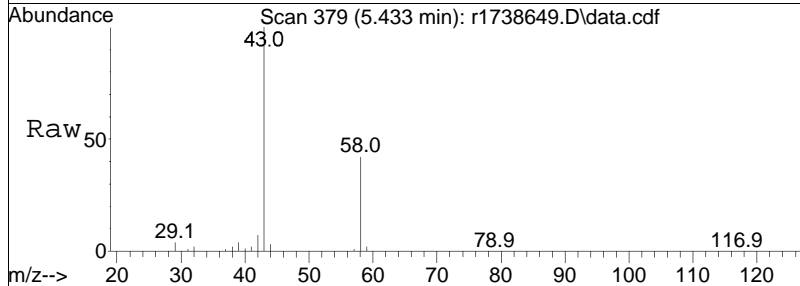
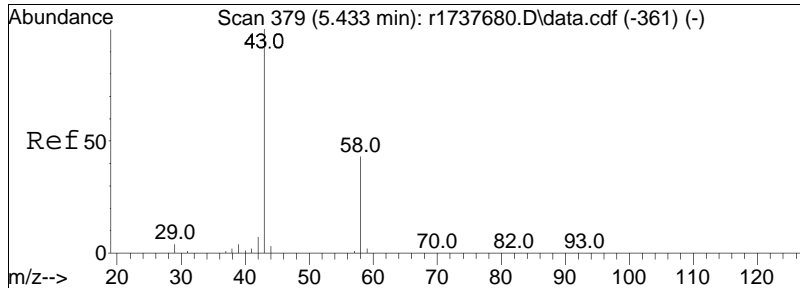




#17
 vinyl bromide
 Concen: 11.05 ppbV
 RT: 5.183 min Scan# 304
 Delta R.T. 0.000 min
 Lab File: r1738649.D
 Acq: 15 Feb 2024 3:25 PM

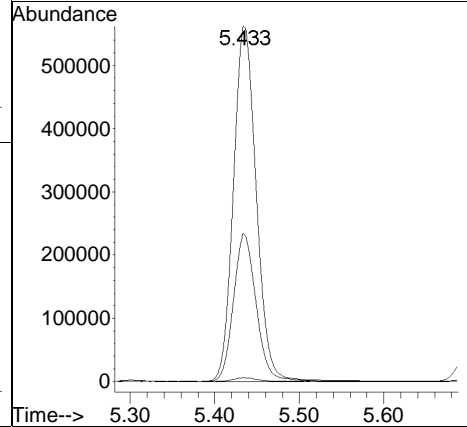
Tgt Ion	Resp	Lower	Upper
106	100		
108	97.0	76.2	114.2

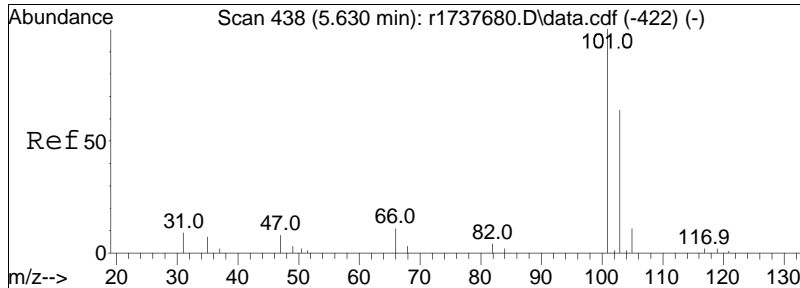




#19
 acetone
 Concen: 53.43 ppbV
 RT: 5.433 min Scan# 379
 Delta R.T. 0.000 min
 Lab File: r1738649.D
 Acq: 15 Feb 2024 3:25 PM

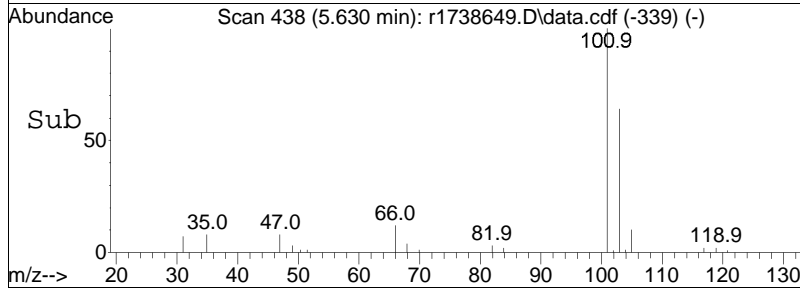
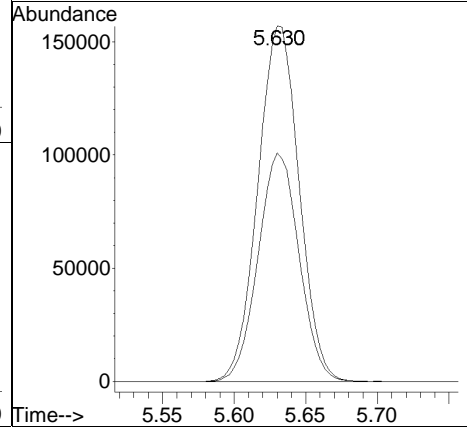
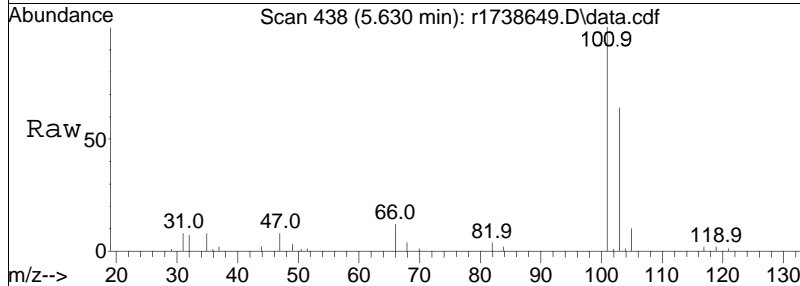
Tgt Ion	Resp	Lower	Upper
43	1057789		
58	41.7	34.0	51.0
57	1.1	0.9	1.3

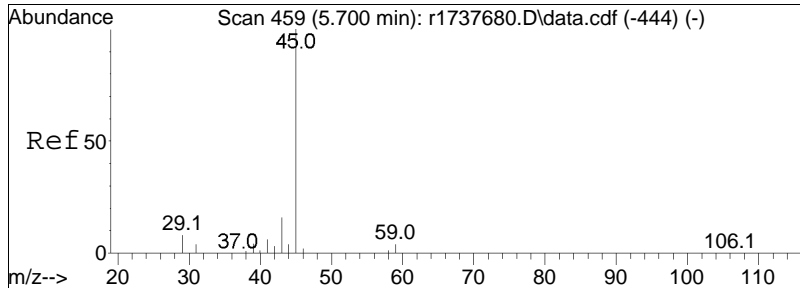




#21
trichlorofluoromethane
Concen: 12.91 ppbV
RT: 5.630 min Scan# 438
Delta R.T. 0.000 min
Lab File: r1738649.D
Acq: 15 Feb 2024 3:25 PM

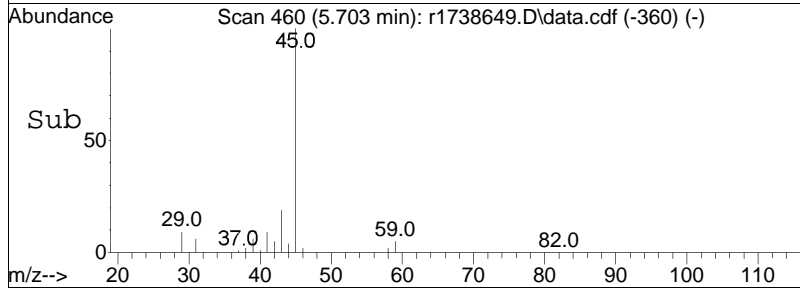
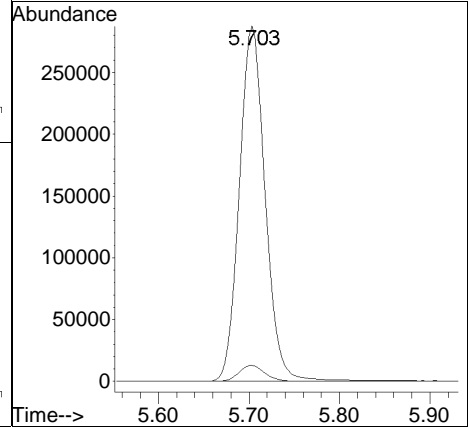
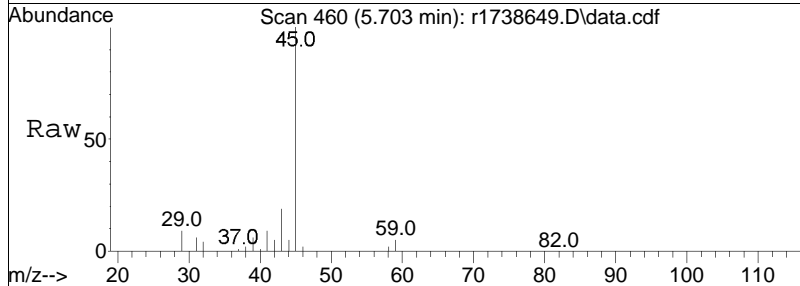
Tgt Ion	Resp	Lower	Upper
101	314968		
103	64.3	51.2	76.8

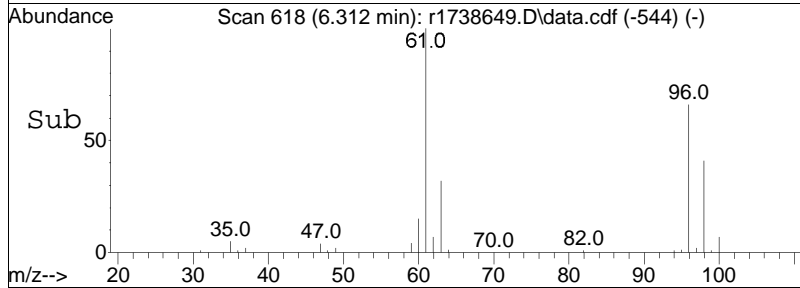
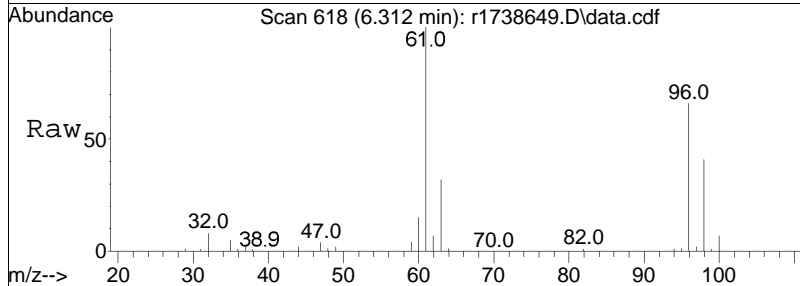
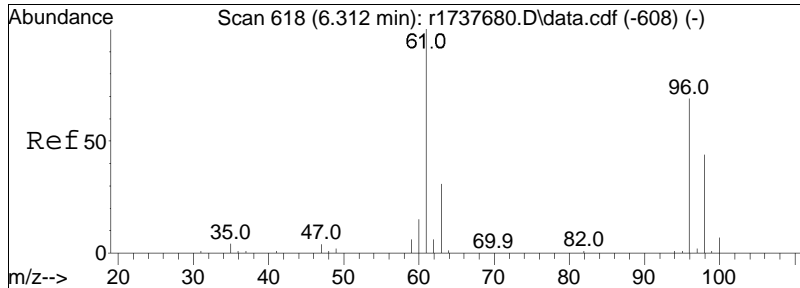




#22
 isopropyl alcohol
 Concen: 22.10 ppbV
 RT: 5.703 min Scan# 460
 Delta R.T. 0.003 min
 Lab File: r1738649.D
 Acq: 15 Feb 2024 3:25 PM

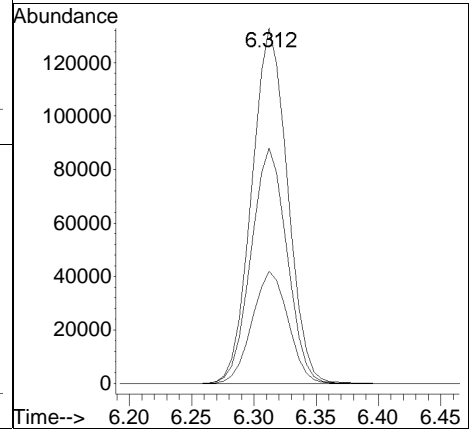
Tgt Ion:	45	Resp:	568610
Ion Ratio	Lower	Upper	
45	100		
59	4.5	3.4	5.2

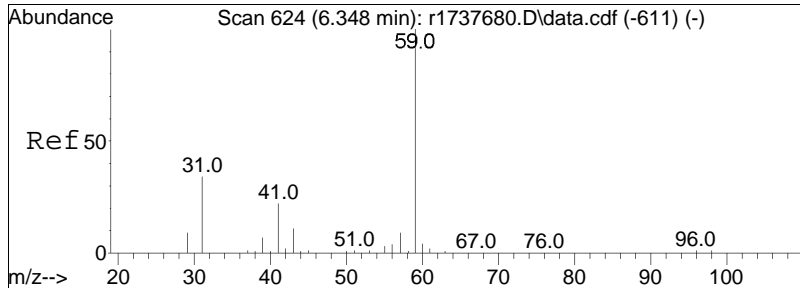




#26
 1,1-dichloroethene
 Concen: 12.08 ppbV
 RT: 6.312 min Scan# 618
 Delta R.T. 0.000 min
 Lab File: r1738649.D
 Acq: 15 Feb 2024 3:25 PM

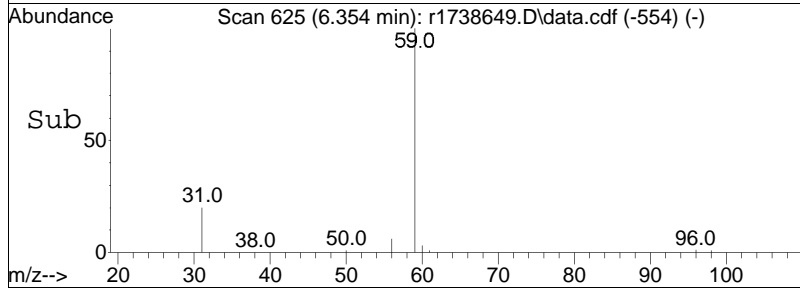
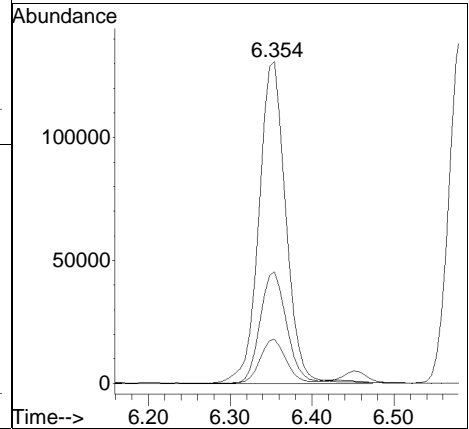
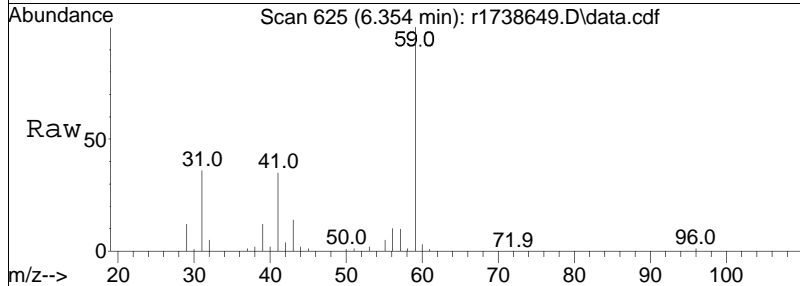
Tgt Ion:	Resp:		
Ion	Ratio	Lower	Upper
61	100		
96	66.2	55.3	82.9
63	31.6	24.9	37.3

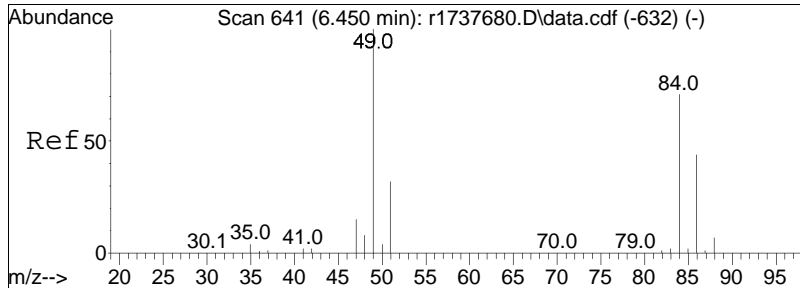




#27
 tertiary butyl alcohol
 Concen: 9.99 ppbV
 RT: 6.354 min Scan# 625
 Delta R.T. 0.006 min
 Lab File: r1738649.D
 Acq: 15 Feb 2024 3:25 PM

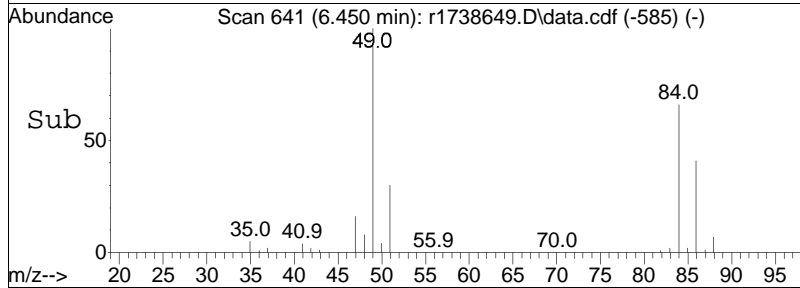
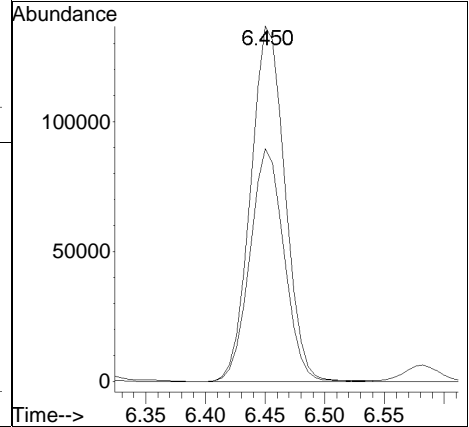
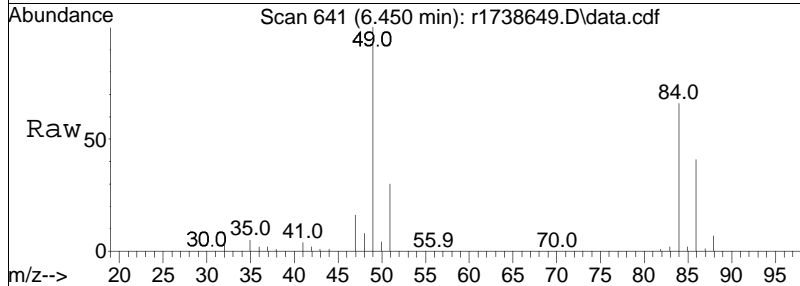
Tgt Ion	Resp	Lower	Upper
59	299039		
41	34.7	17.5	26.3#
43	13.7	8.7	13.1#

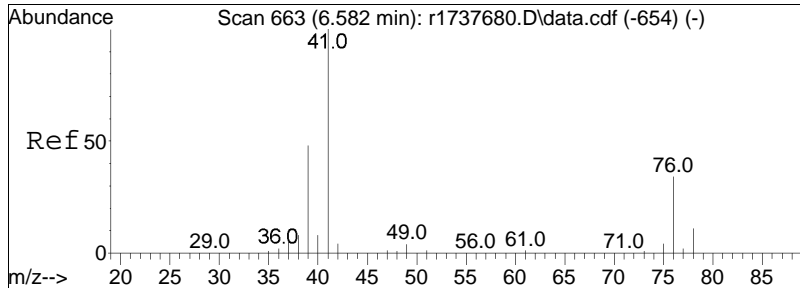




#28
 methylene chloride
 Concen: 12.53 ppbV
 RT: 6.450 min Scan# 641
 Delta R.T. 0.000 min
 Lab File: r1738649.D
 Acq: 15 Feb 2024 3:25 PM

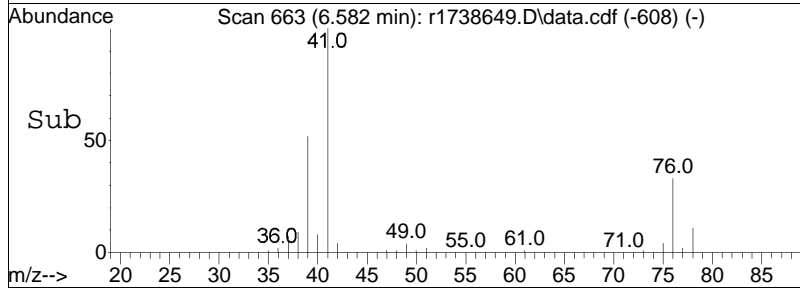
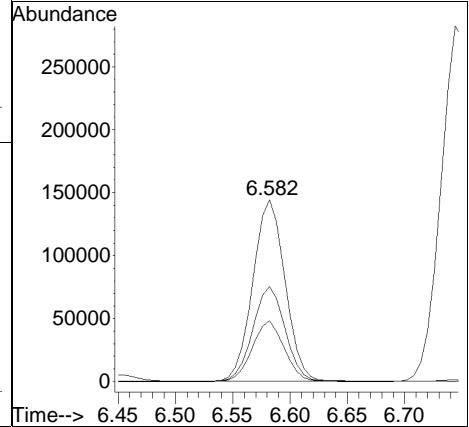
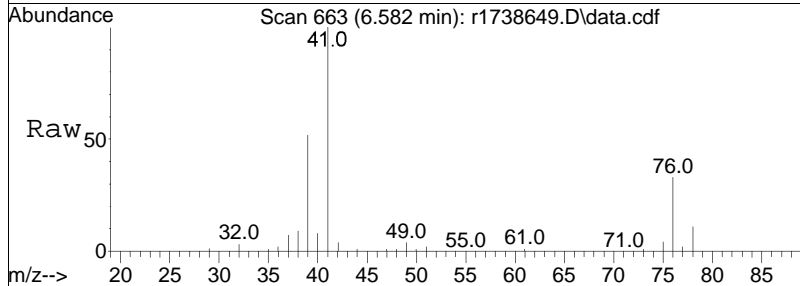
Tgt Ion:	Resp:		
Ion	Ratio	Lower	Upper
49	100		
84	65.5	56.7	85.1

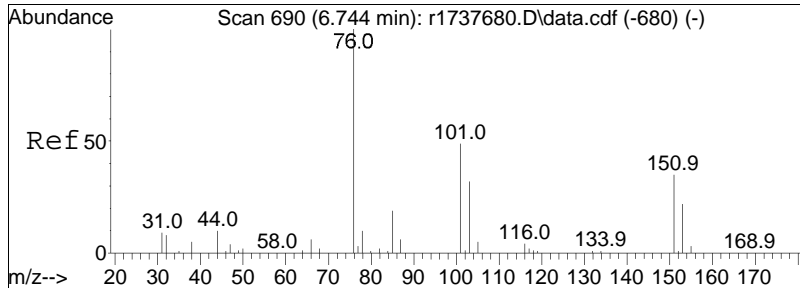




#29
 3-chloropropene
 Concen: 11.59 ppbV
 RT: 6.582 min Scan# 663
 Delta R.T. 0.000 min
 Lab File: r1738649.D
 Acq: 15 Feb 2024 3:25 PM

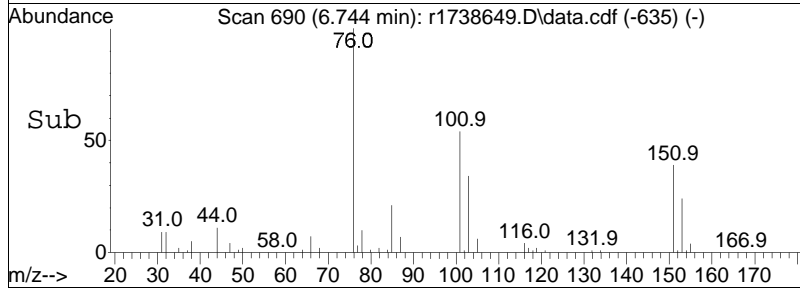
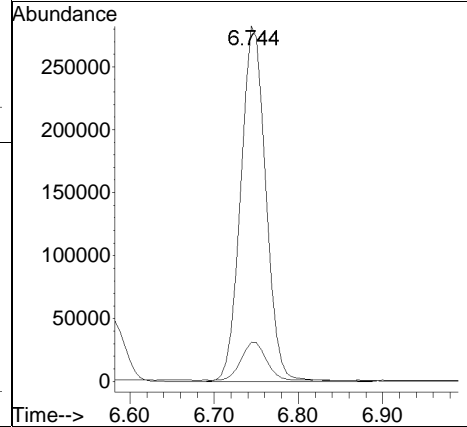
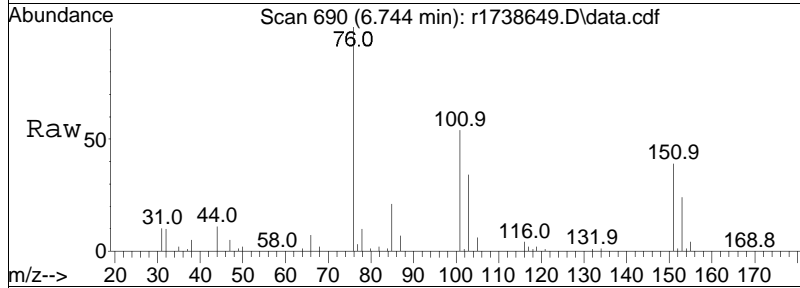
Tgt Ion:	Resp:		
Ion	Ratio	Lower	Upper
41	100		
39	52.2	38.5	57.7
76	33.4	26.8	40.2

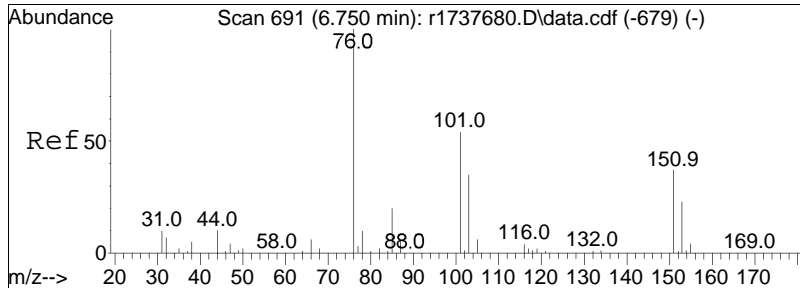




#30
 carbon disulfide
 Concen: 10.78 ppbV
 RT: 6.744 min Scan# 690
 Delta R.T. 0.000 min
 Lab File: r1738649.D
 Acq: 15 Feb 2024 3:25 PM

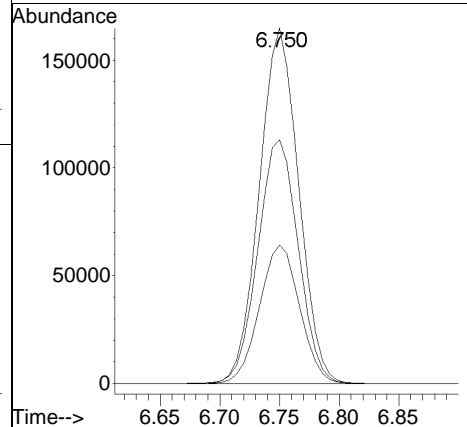
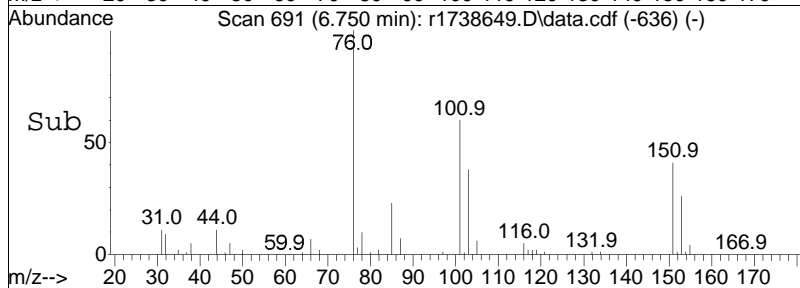
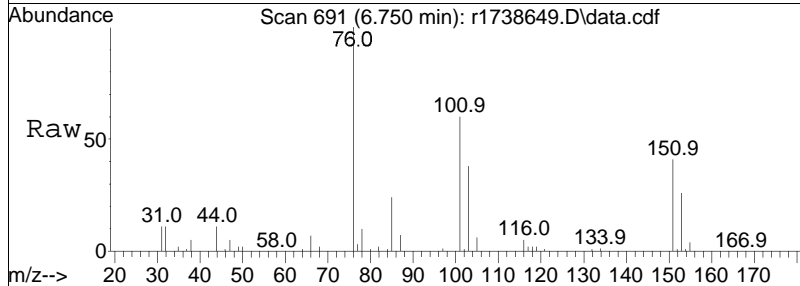
Tgt Ion: 76 Resp: 584775
 Ion Ratio Lower Upper
 76 100
 44 11.0 8.5 12.7

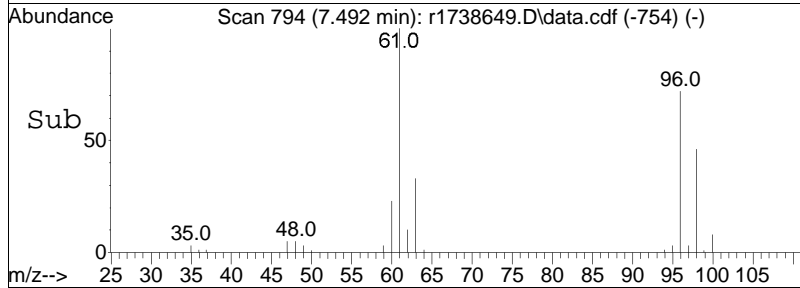
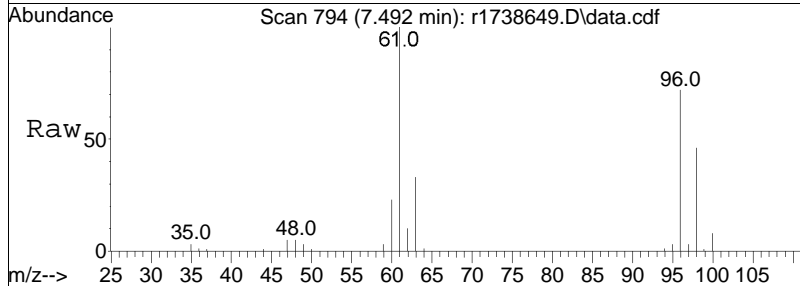
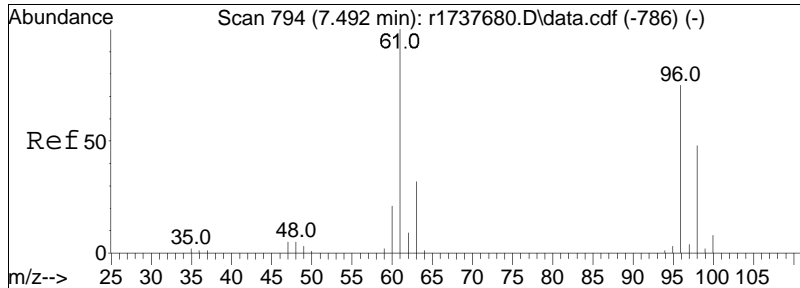




#31
 Freon 113
 Concen: 11.97 ppbV
 RT: 6.750 min Scan# 691
 Delta R.T. 0.000 min
 Lab File: r1738649.D
 Acq: 15 Feb 2024 3:25 PM

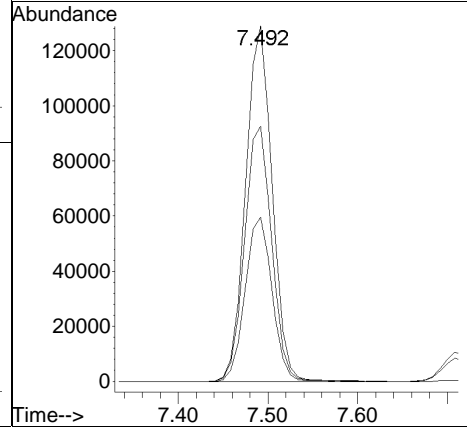
Tgt Ion	Ratio	Lower	Upper
101	100		
85	39.0	30.5	45.7
151	68.5	56.0	84.0

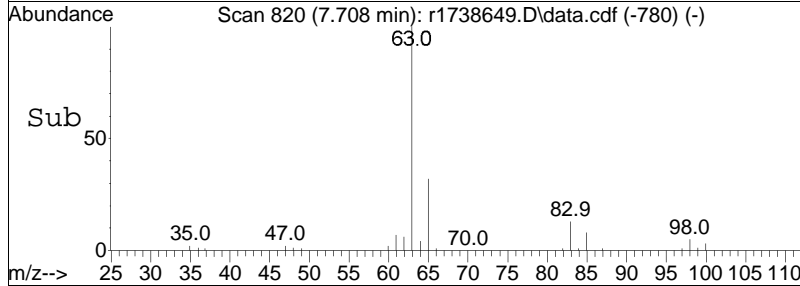
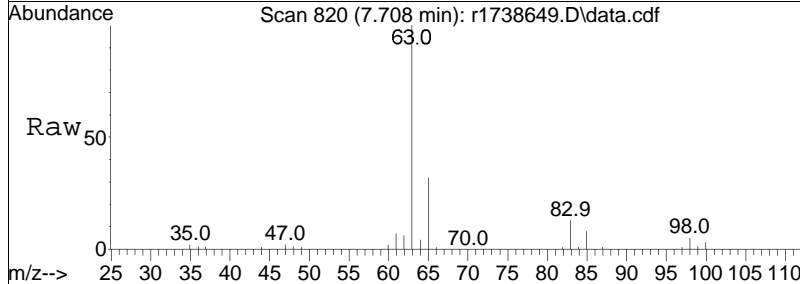
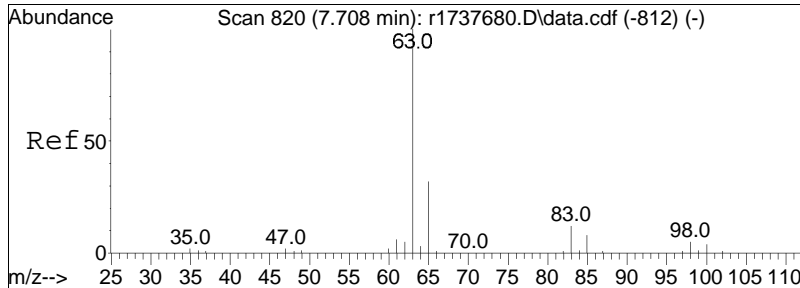




#32
 trans-1,2-dichloroethene
 Concen: 11.58 ppbV
 RT: 7.492 min Scan# 794
 Delta R.T. 0.000 min
 Lab File: r1738649.D
 Acq: 15 Feb 2024 3:25 PM

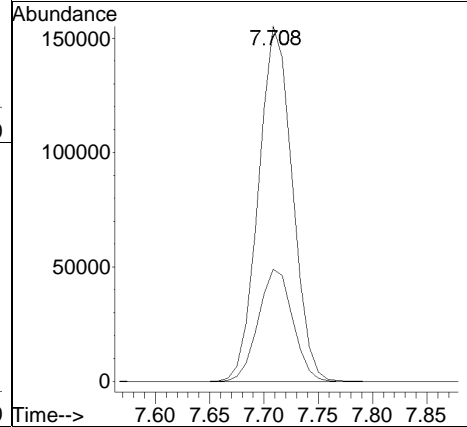
Tgt Ion:	Resp:		
Ion	Ratio	Lower	Upper
61	100		
96	71.8	59.9	89.9
98	46.2	38.2	57.4

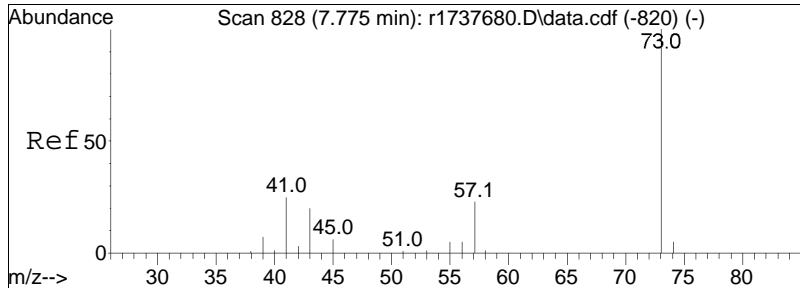




#33
 1,1-dichloroethane
 Concen: 11.63 ppbV
 RT: 7.708 min Scan# 820
 Delta R.T. 0.000 min
 Lab File: r1738649.D
 Acq: 15 Feb 2024 3:25 PM

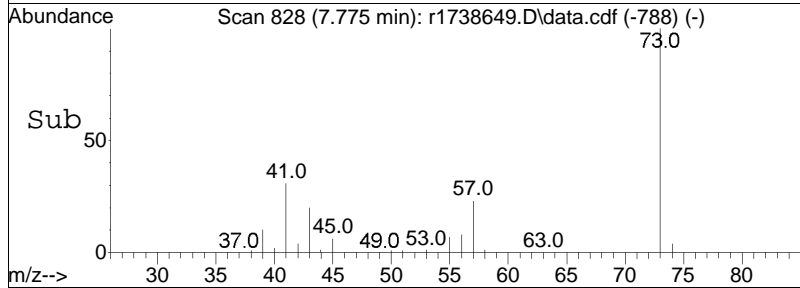
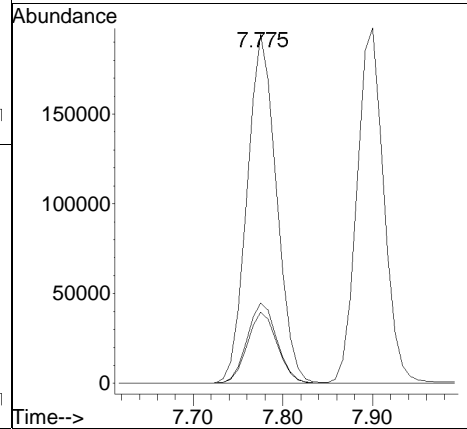
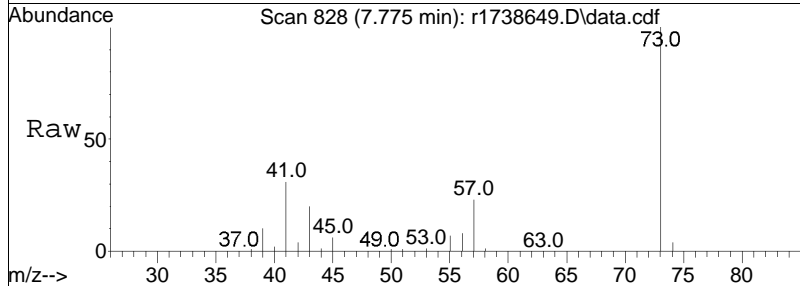
Tgt Ion:	63	Resp:	336132
Ion Ratio	Lower	Upper	
63	100		
65	31.5	25.6	38.4

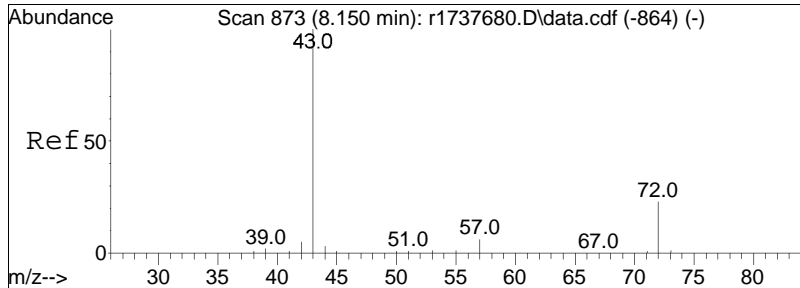




#34
 MTBE
 Concen: 10.39 ppbV
 RT: 7.775 min Scan# 828
 Delta R.T. 0.000 min
 Lab File: r1738649.D
 Acq: 15 Feb 2024 3:25 PM

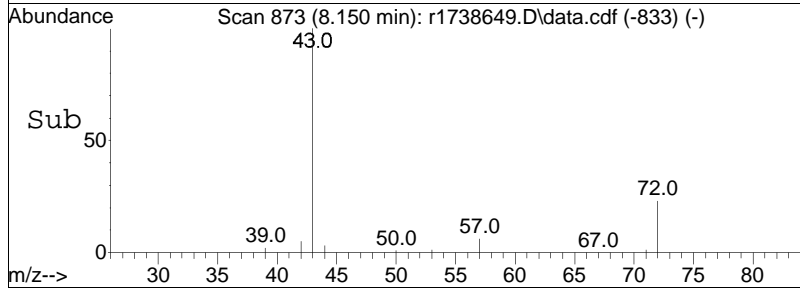
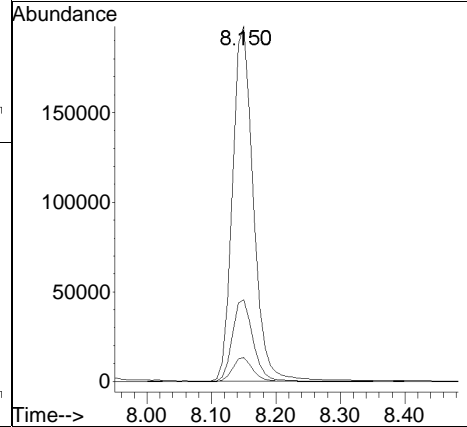
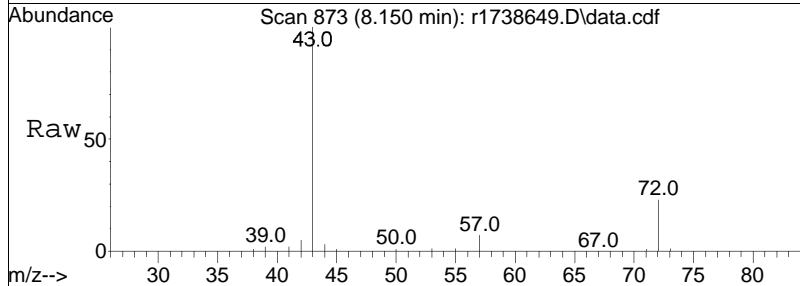
Tgt Ion	Resp	Lower	Upper
73	443720		
73	100		
57	23.1	18.2	27.4
43	20.4	16.2	24.2

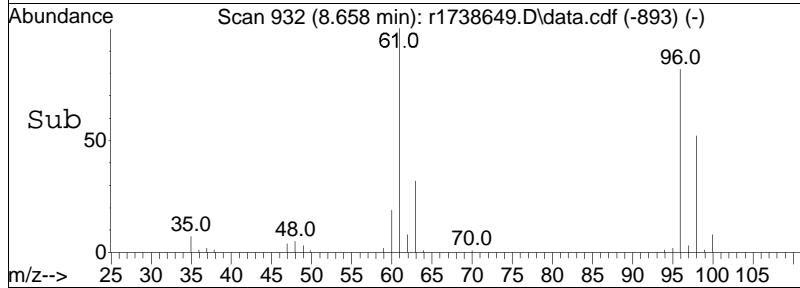
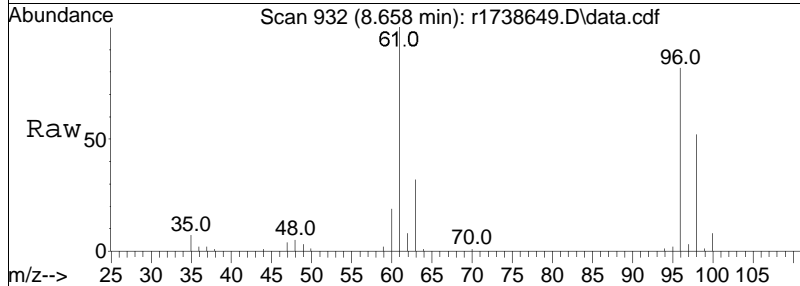
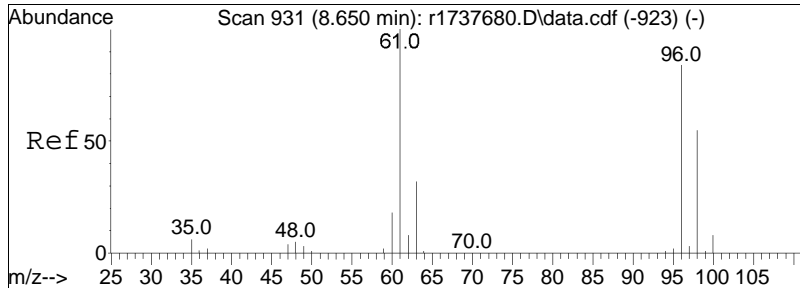




#36
 2-butanone
 Concen: 11.21 ppbV
 RT: 8.150 min Scan# 873
 Delta R.T. 0.000 min
 Lab File: r1738649.D
 Acq: 15 Feb 2024 3:25 PM

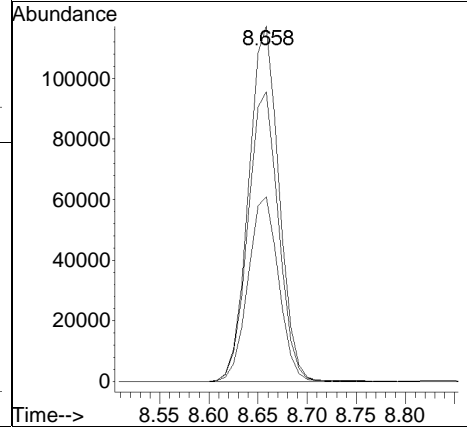
Tgt Ion	Resp	Lower	Upper
43	100		
72	23.0	18.3	27.5
57	6.7	5.0	7.6

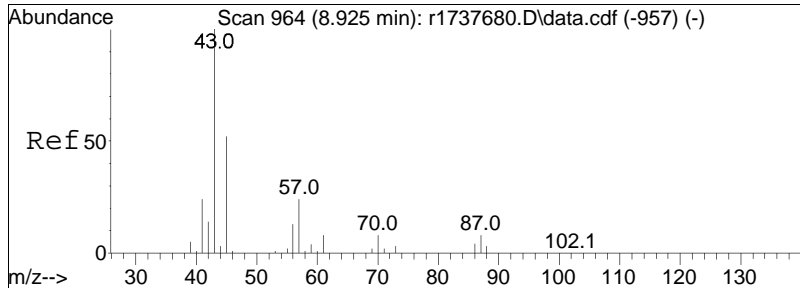




#37
 cis-1,2-dichloroethene
 Concen: 11.69 ppbV
 RT: 8.658 min Scan# 932
 Delta R.T. 0.008 min
 Lab File: r1738649.D
 Acq: 15 Feb 2024 3:25 PM

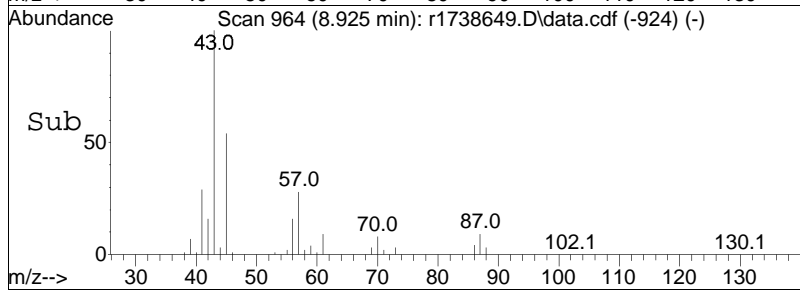
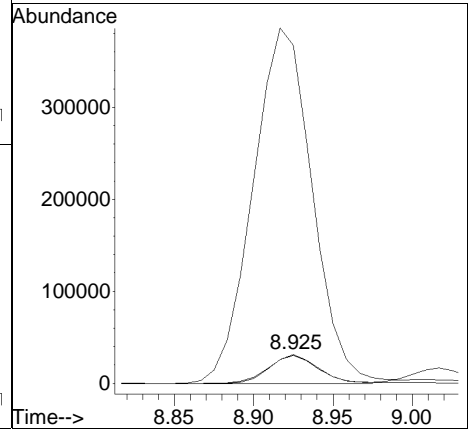
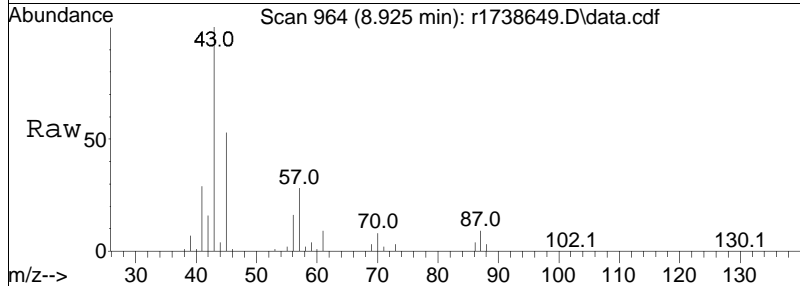
Tgt Ion:	Resp:		
Ion Ratio	Lower	Upper	
61	100		
96	81.5	67.4	101.0
98	51.9	43.8	65.6

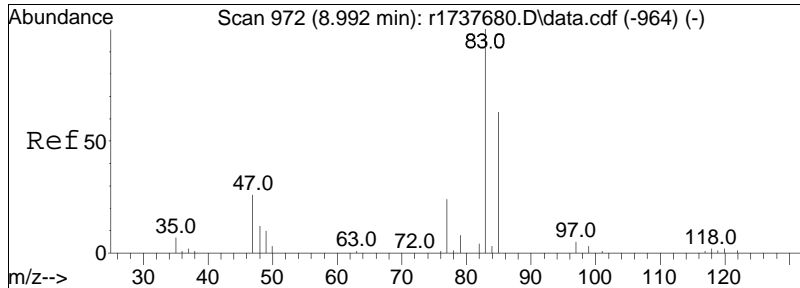




#38
 Ethyl Acetate
 Concen: 12.05 ppbV
 RT: 8.925 min Scan# 964
 Delta R.T. 0.000 min
 Lab File: r1738649.D
 Acq: 15 Feb 2024 3:25 PM

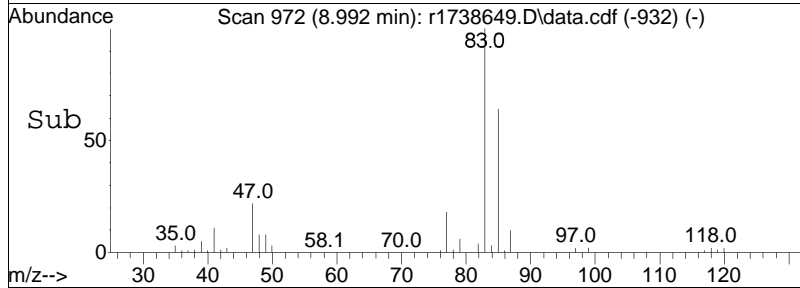
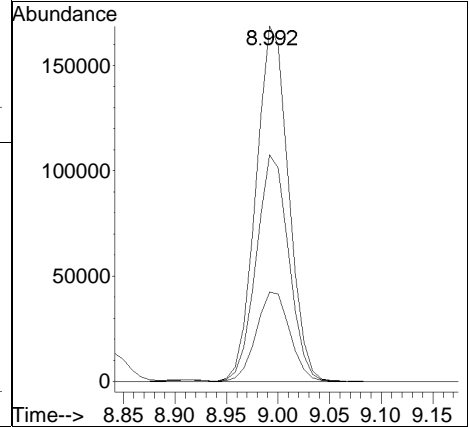
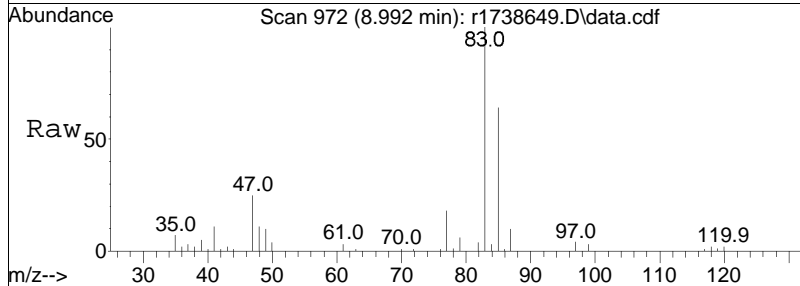
Tgt Ion:	Resp:		
Ion	Ratio	Lower	Upper
61	100		
70	97.3	78.0	117.0
43	1169.6	960.0	1440.0

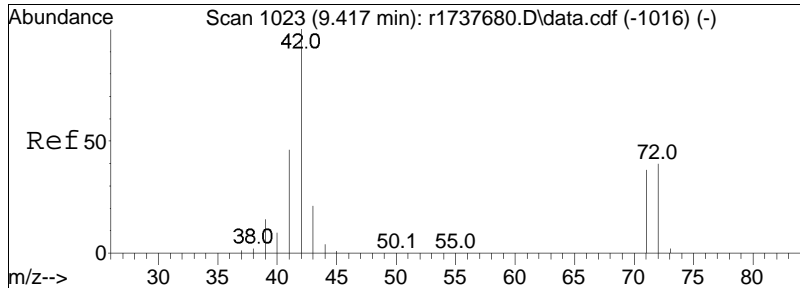




#39
 chloroform
 Concen: 12.14 ppbV
 RT: 8.992 min Scan# 972
 Delta R.T. 0.000 min
 Lab File: r1738649.D
 Acq: 15 Feb 2024 3:25 PM

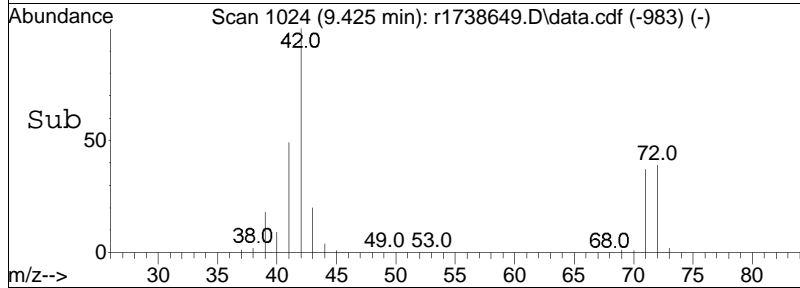
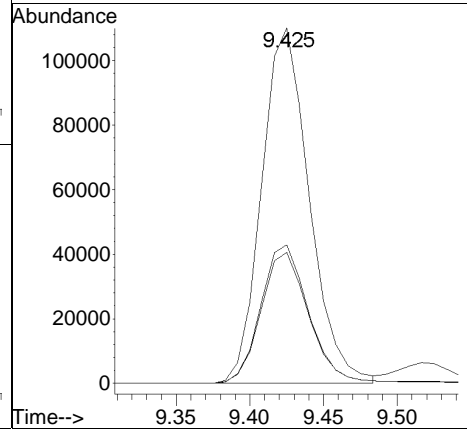
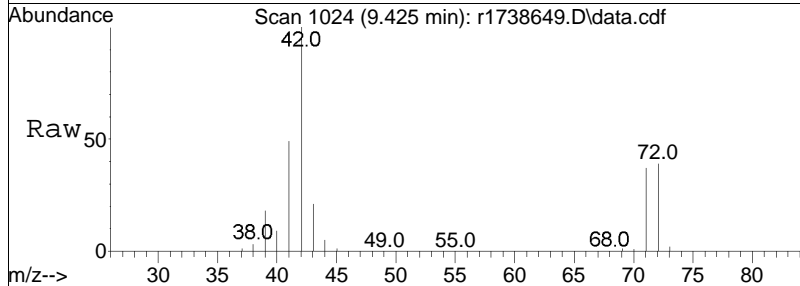
Tgt Ion	Resp	Lower	Upper
83	370902		
85	63.8	50.8	76.2
47	25.1	21.0	31.6

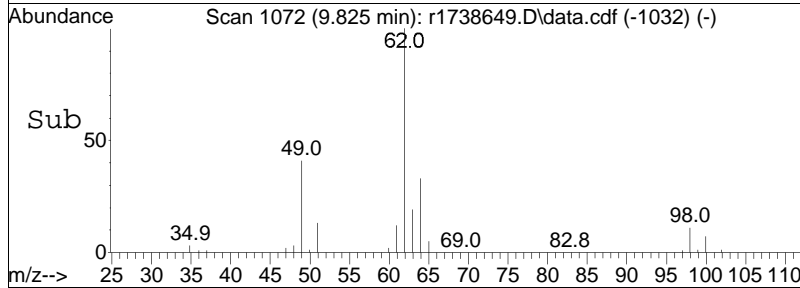
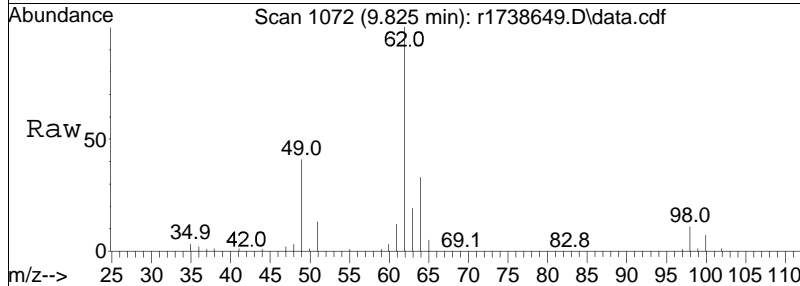
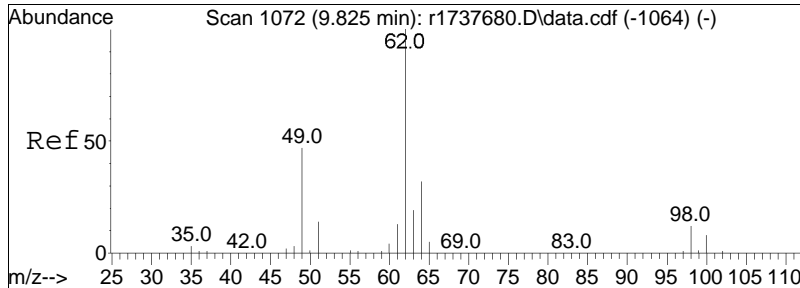




#40
 Tetrahydrofuran
 Concen: 10.97 ppbV
 RT: 9.425 min Scan# 1024
 Delta R.T. 0.008 min
 Lab File: r1738649.D
 Acq: 15 Feb 2024 3:25 PM

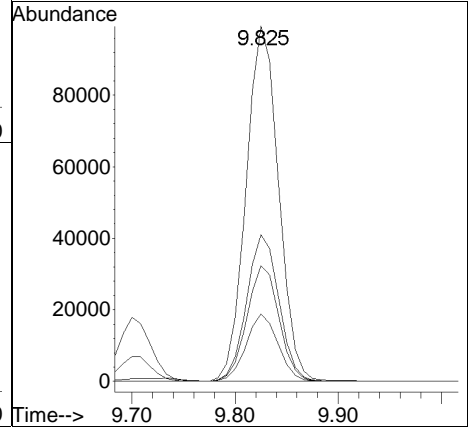
Tgt Ion:	Resp:		
Ion	Ratio	Lower	Upper
42	100		
71	36.9	30.0	45.0
72	39.0	31.9	47.9

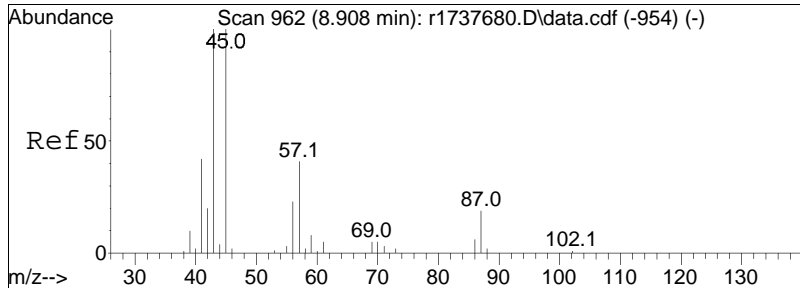




#42
 1,2-dichloroethane
 Concen: 12.51 ppbV
 RT: 9.825 min Scan# 1072
 Delta R.T. 0.000 min
 Lab File: r1738649.D
 Acq: 15 Feb 2024 3:25 PM

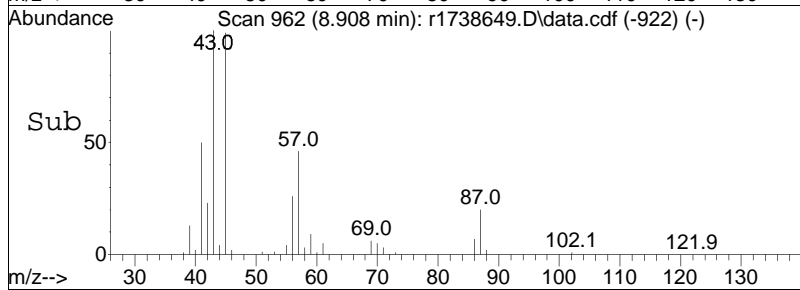
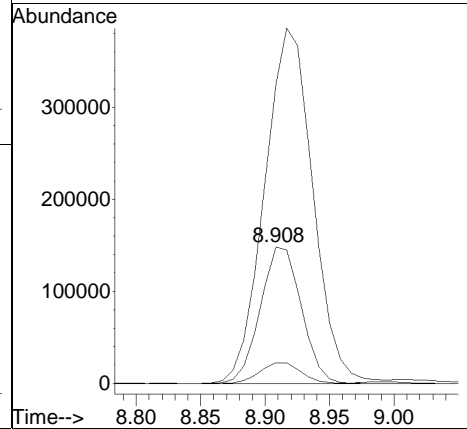
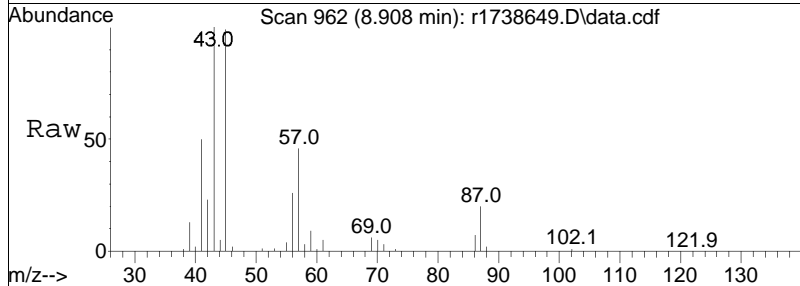
Tgt Ion:	Resp:		
Ion	Ratio	Lower	Upper
62	100		
64	32.6	25.5	38.3
49	41.3	37.8	56.8
63	19.0	15.5	23.3

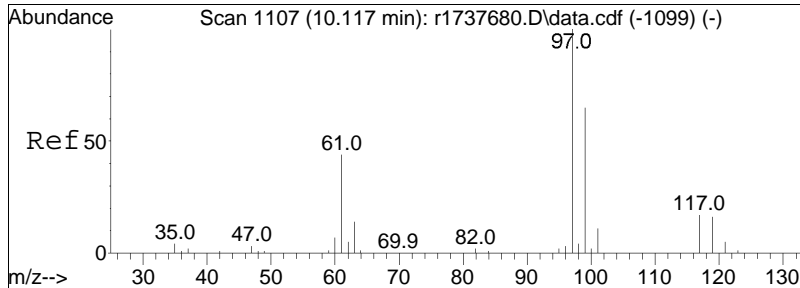




#44
 hexane
 Concen: 11.51 ppbV
 RT: 8.908 min Scan# 962
 Delta R.T. 0.000 min
 Lab File: r1738649.D
 Acq: 15 Feb 2024 3:25 PM

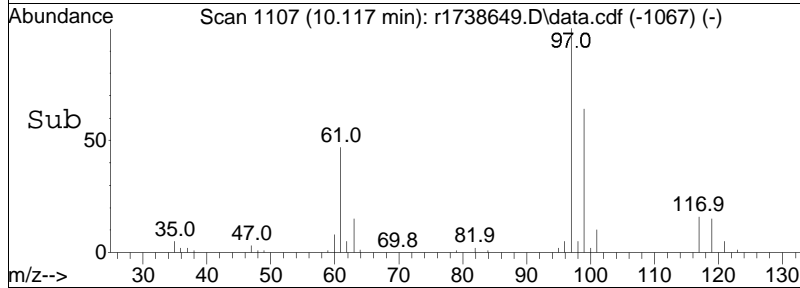
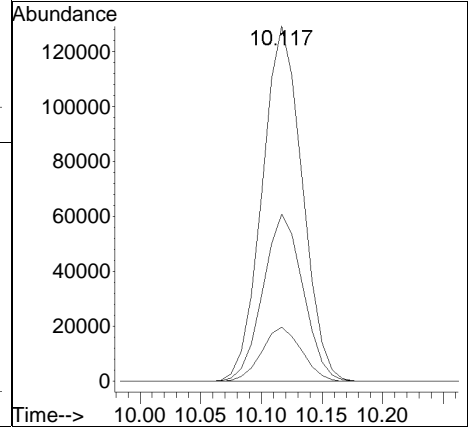
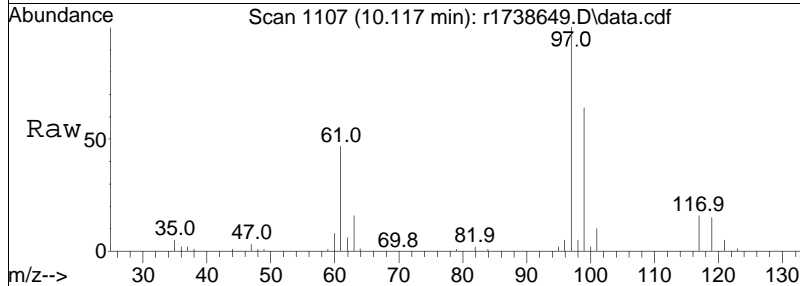
Tgt Ion:	Resp:	Lower	Upper
57	328024		
Ion Ratio			
57	100		
43	219.7	197.0	295.6
86	15.2	12.6	19.0

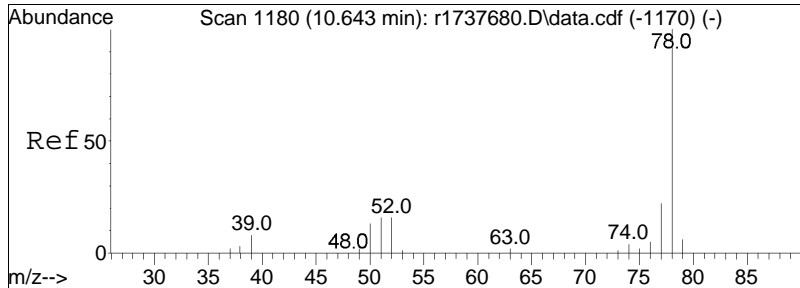




#48
 1,1,1-trichloroethane
 Concen: 11.98 ppbV
 RT: 10.117 min Scan# 1107
 Delta R.T. 0.000 min
 Lab File: r1738649.D
 Acq: 15 Feb 2024 3:25 PM

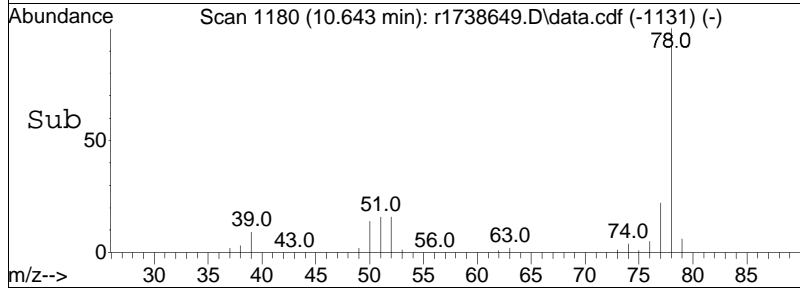
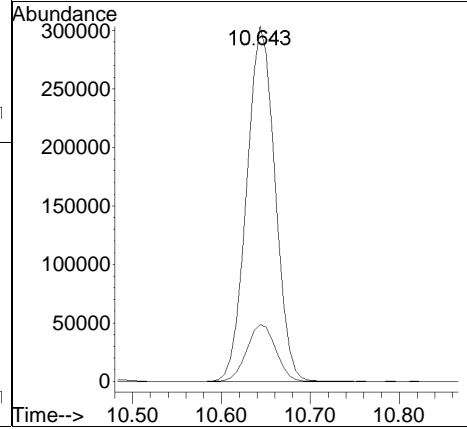
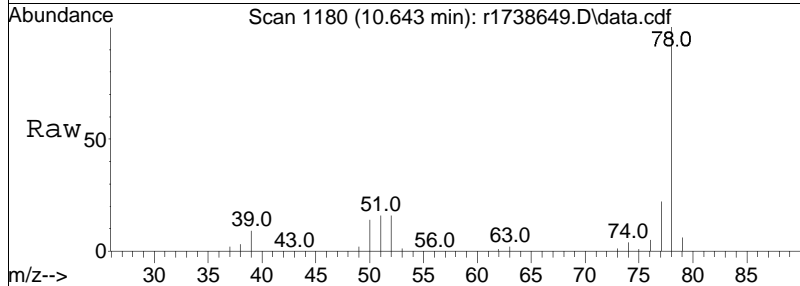
Tgt Ion	Resp	Lower	Upper
97	297165		
61	47.1	35.4	53.2
119	15.3	12.6	18.8

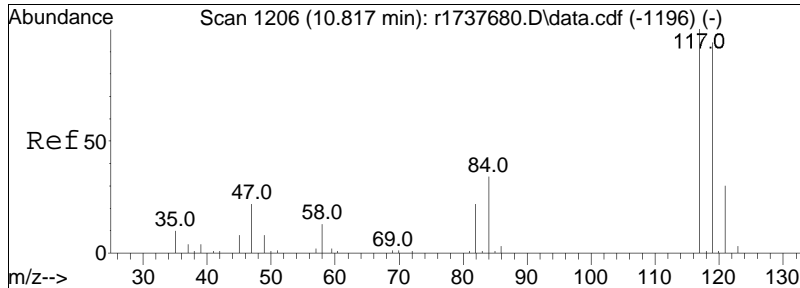




#50
 benzene
 Concen: 10.53 ppbV
 RT: 10.643 min Scan# 1180
 Delta R.T. 0.000 min
 Lab File: r1738649.D
 Acq: 15 Feb 2024 3:25 PM

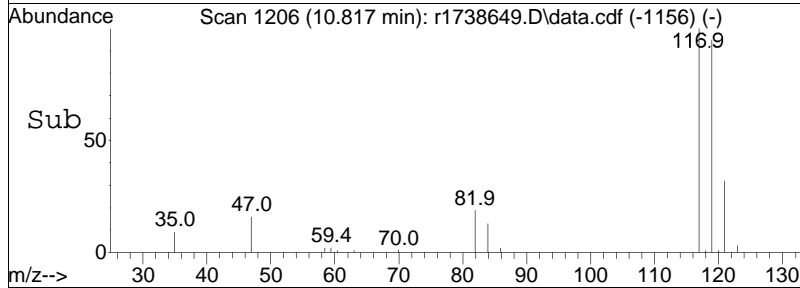
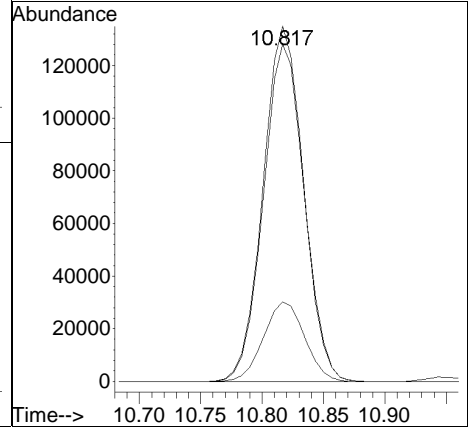
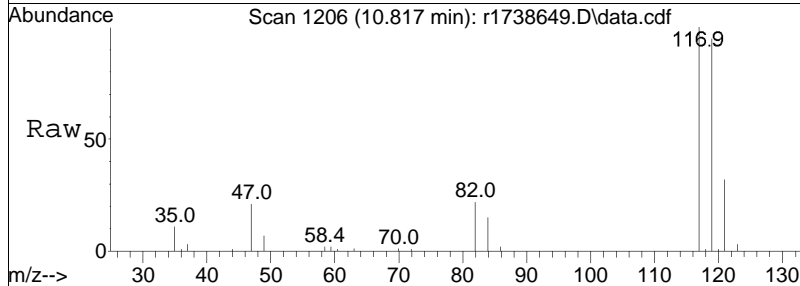
Tgt Ion	Resp	Lower	Upper
78	100		
52	16.0	12.7	19.1

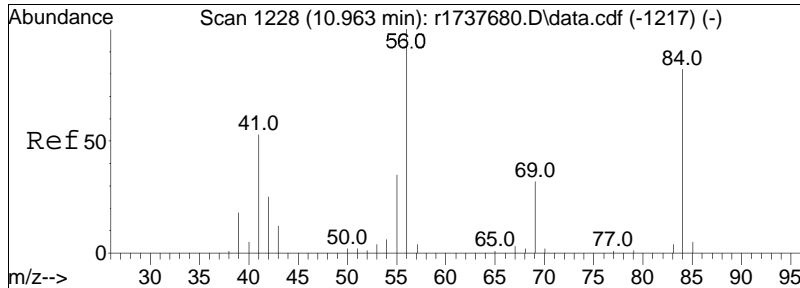




#52
 carbon tetrachloride
 Concen: 13.25 ppbV
 RT: 10.817 min Scan# 1206
 Delta R.T. 0.000 min
 Lab File: r1738649.D
 Acq: 15 Feb 2024 3:25 PM

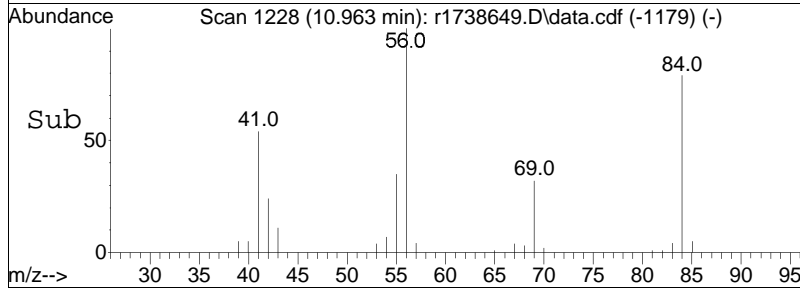
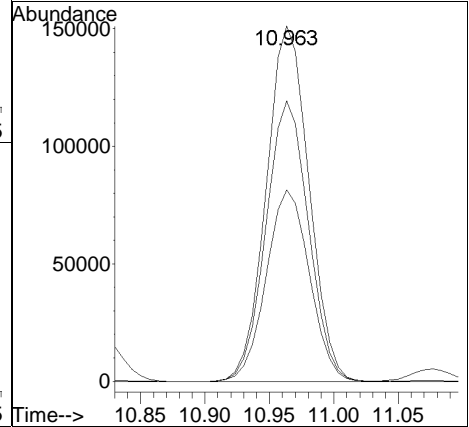
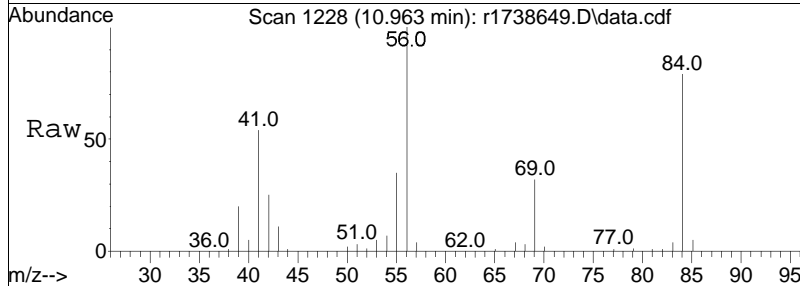
Tgt Ion	Resp	Lower	Upper
117	100		
119	94.9	75.2	112.8
82	22.4	18.0	27.0

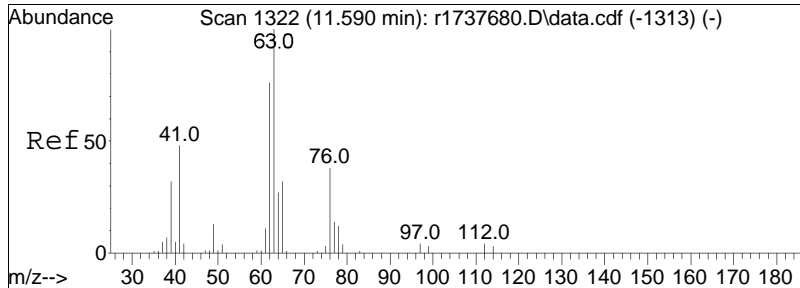




#53
 cyclohexane
 Concen: 11.43 ppbV
 RT: 10.963 min Scan# 1228
 Delta R.T. 0.000 min
 Lab File: r1738649.D
 Acq: 15 Feb 2024 3:25 PM

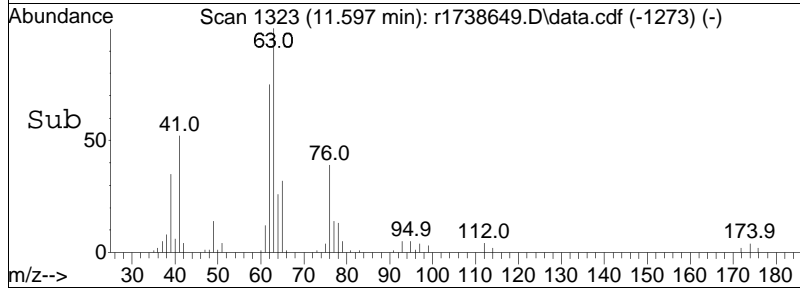
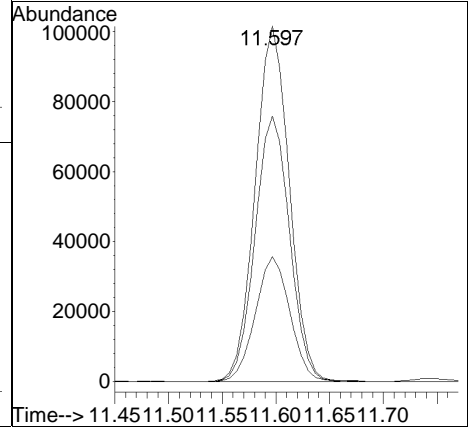
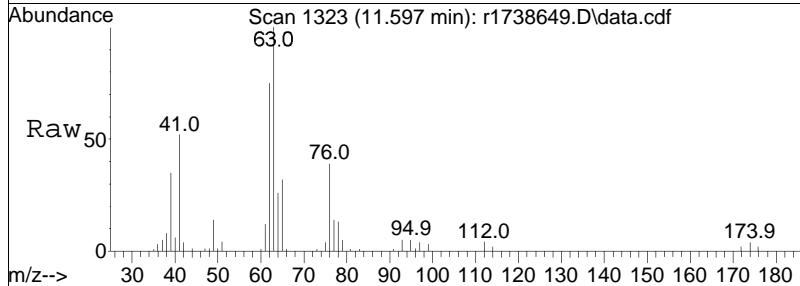
Tgt Ion:	Resp:		
Ion	Ratio	Lower	Upper
56	100		
84	78.9	65.7	98.5
41	53.9	42.5	63.7

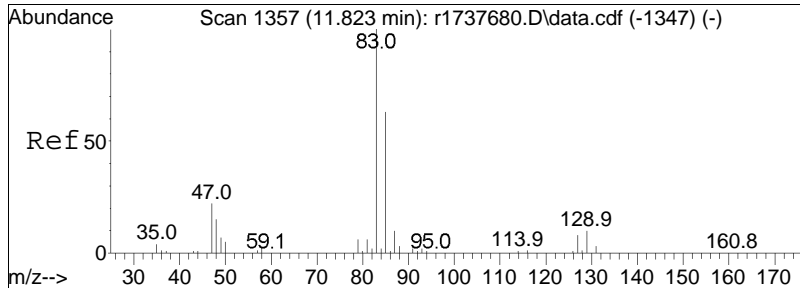




#56
 1,2-dichloropropane
 Concen: 11.44 ppbV
 RT: 11.597 min Scan# 1323
 Delta R.T. 0.007 min
 Lab File: r1738649.D
 Acq: 15 Feb 2024 3:25 PM

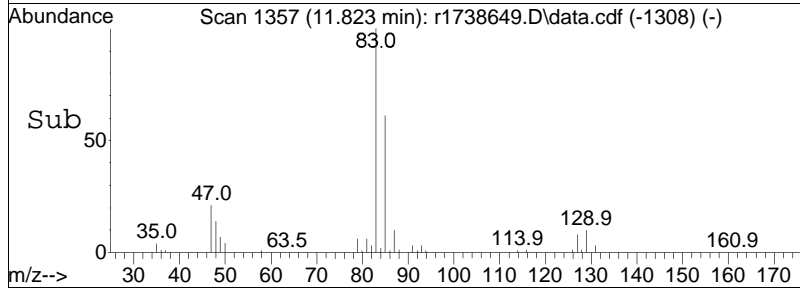
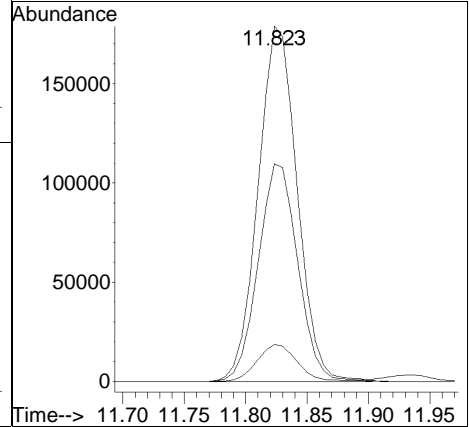
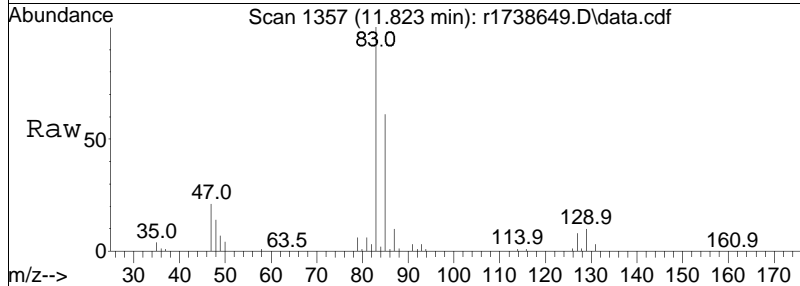
Tgt Ion	Resp	Lower	Upper
63	224432		
62	74.7	60.5	90.7
39	35.1	25.8	38.8

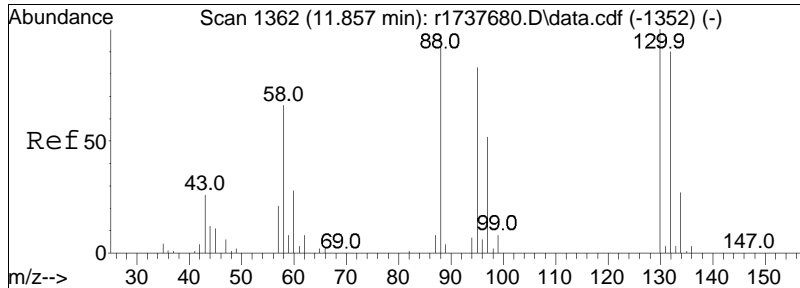




#57
 bromodichloromethane
 Concen: 13.22 ppbV
 RT: 11.823 min Scan# 1357
 Delta R.T. 0.000 min
 Lab File: r1738649.D
 Acq: 15 Feb 2024 3:25 PM

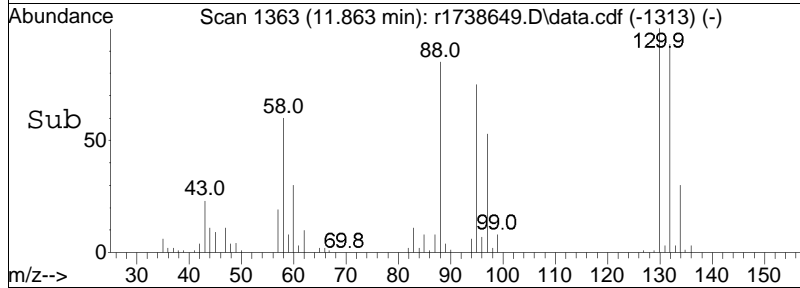
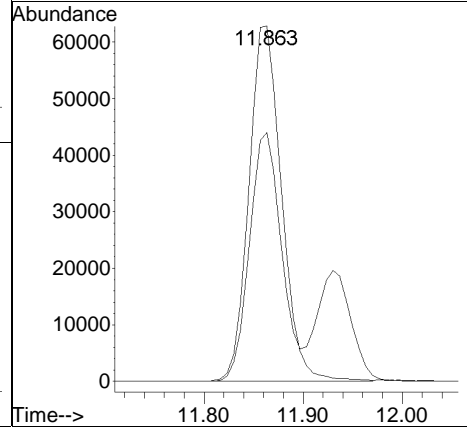
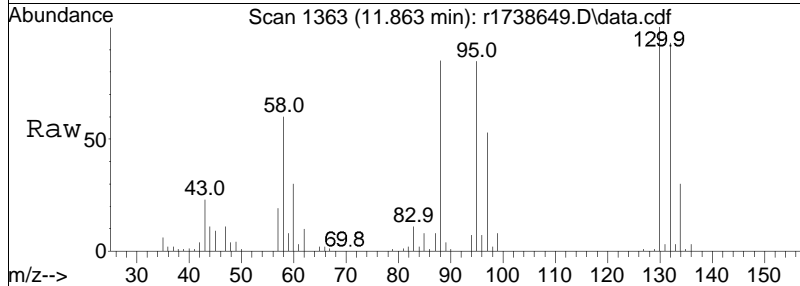
Tgt Ion	Resp	Lower	Upper
83	395726		
83	100		
85	61.2	50.3	75.5
129	10.4	8.0	12.0

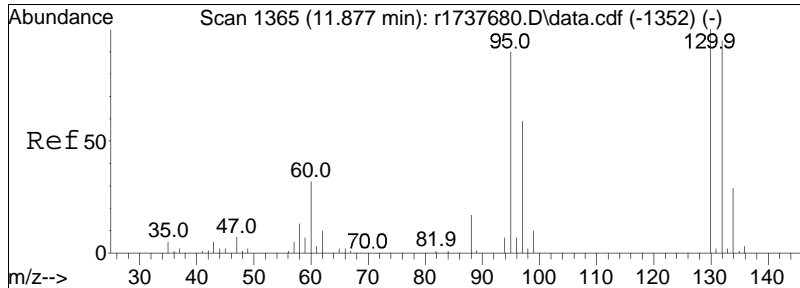




#58
 1,4-dioxane
 Concen: 11.73 ppbV
 RT: 11.863 min Scan# 1363
 Delta R.T. 0.007 min
 Lab File: r1738649.D
 Acq: 15 Feb 2024 3:25 PM

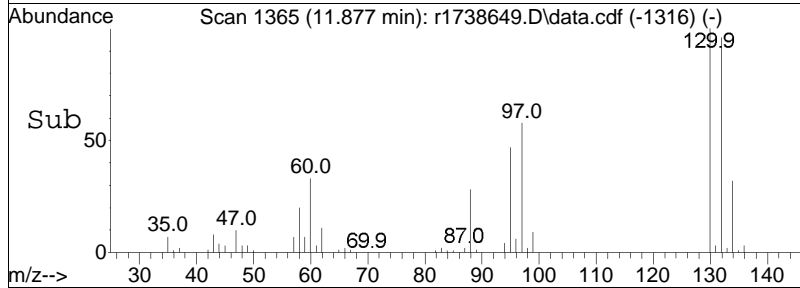
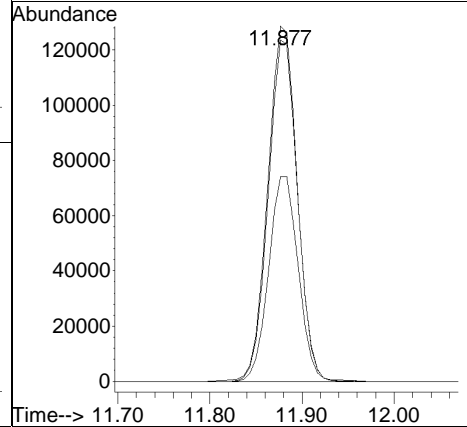
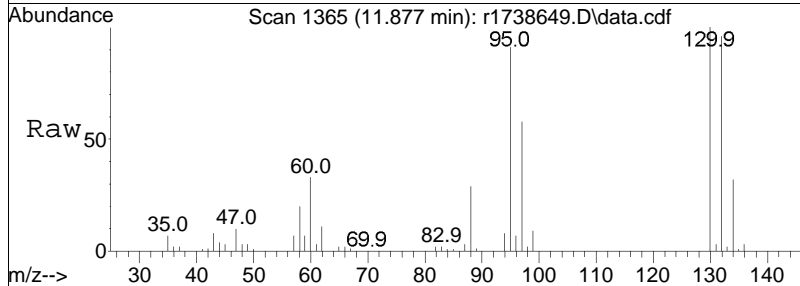
Tgt Ion:	88	Resp:	144146
Ion Ratio	100	Lower	Upper
58	70.1	55.0	82.6

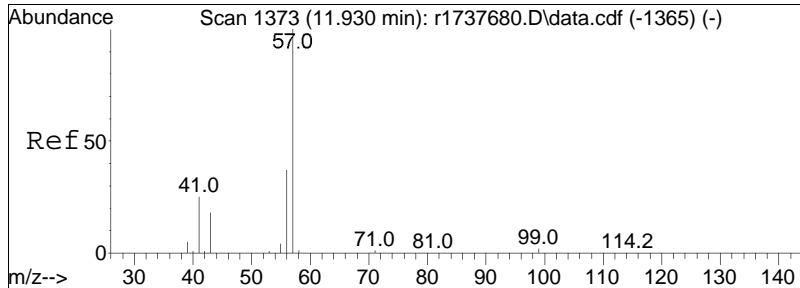




#59
 trichloroethene
 Concen: 11.73 ppbV
 RT: 11.877 min Scan# 1365
 Delta R.T. 0.000 min
 Lab File: r1738649.D
 Acq: 15 Feb 2024 3:25 PM

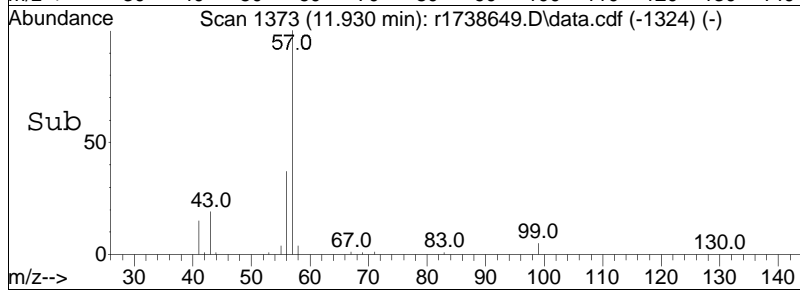
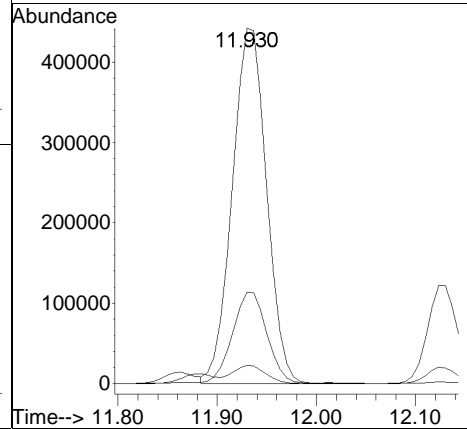
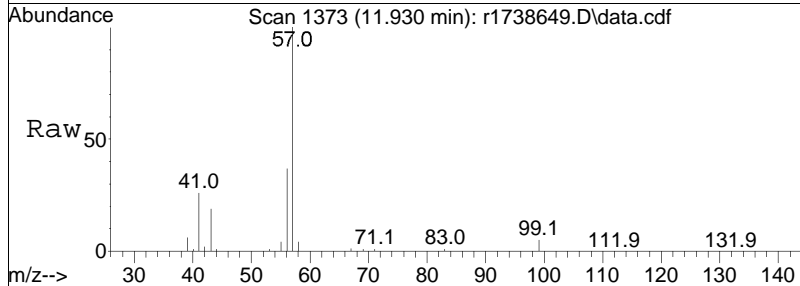
Tgt Ion	Resp	Lower	Upper
130	284902		
130	100		
132	96.2	75.8	113.8
97	57.6	47.0	70.4

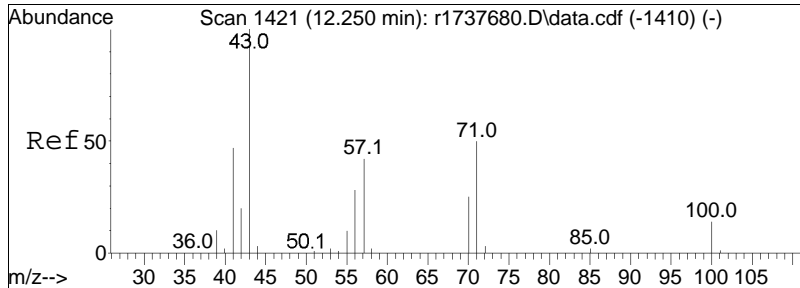




#60
 2,2,4-trimethylpentane
 Concen: 11.22 ppbV
 RT: 11.930 min Scan# 1373
 Delta R.T. 0.000 min
 Lab File: r1738649.D
 Acq: 15 Feb 2024 3:25 PM

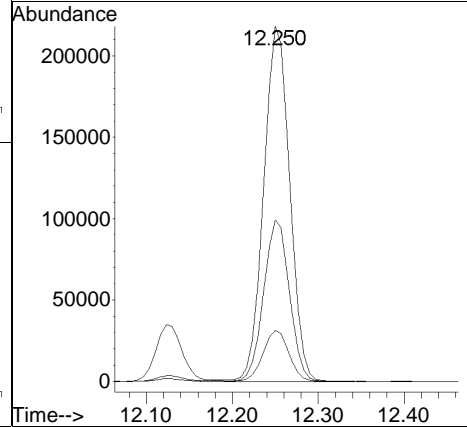
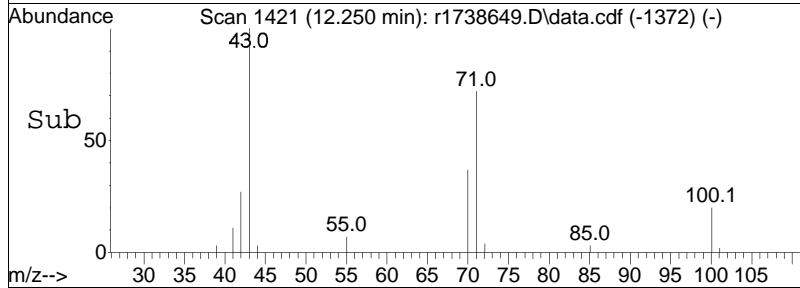
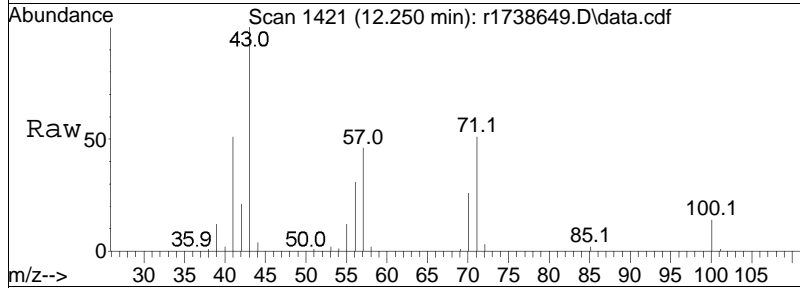
Tgt Ion	Resp	Lower	Upper
57	100		
99	5.1	4.0	6.0
41	25.7	19.8	29.6

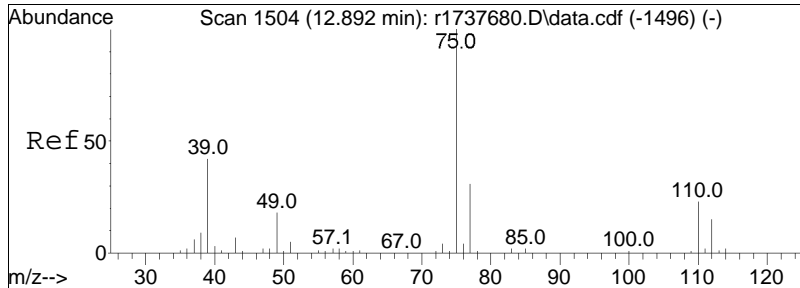




#62
 heptane
 Concen: 11.45 ppbV
 RT: 12.250 min Scan# 1421
 Delta R.T. 0.000 min
 Lab File: r1738649.D
 Acq: 15 Feb 2024 3:25 PM

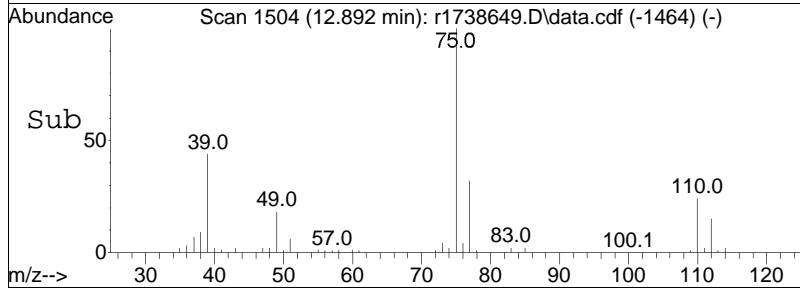
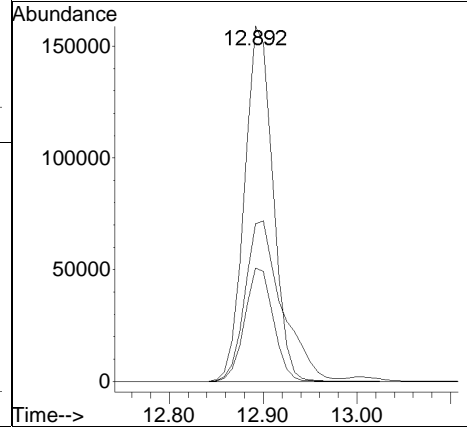
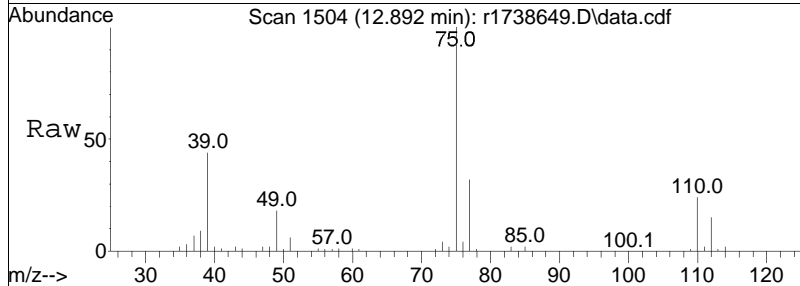
Tgt Ion	Resp	Lower	Upper
43	459511		
57	45.5	33.5	50.3
100	14.4	11.3	16.9

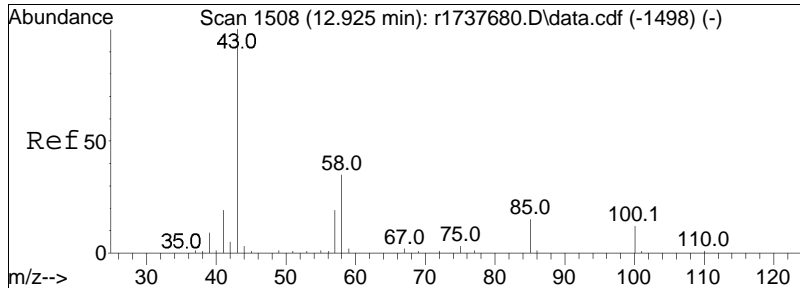




#63
 cis-1,3-dichloropropene
 Concen: 10.47 ppbV
 RT: 12.892 min Scan# 1504
 Delta R.T. 0.000 min
 Lab File: r1738649.D
 Acq: 15 Feb 2024 3:25 PM

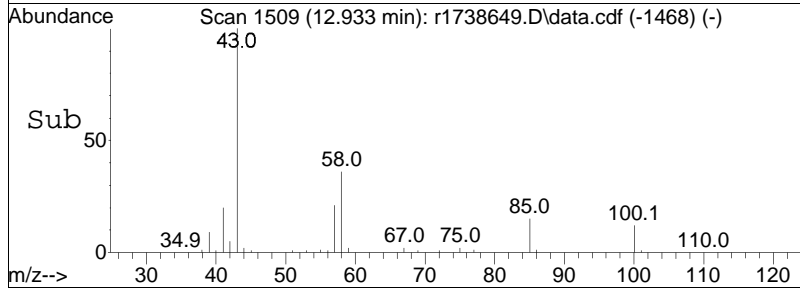
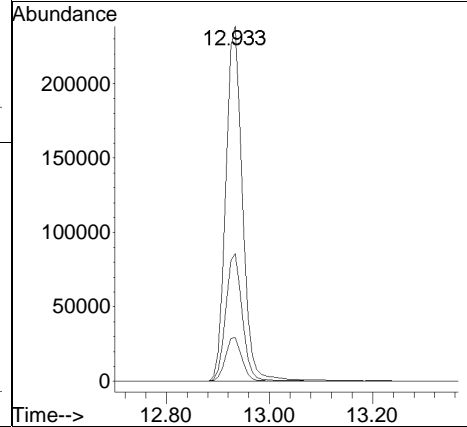
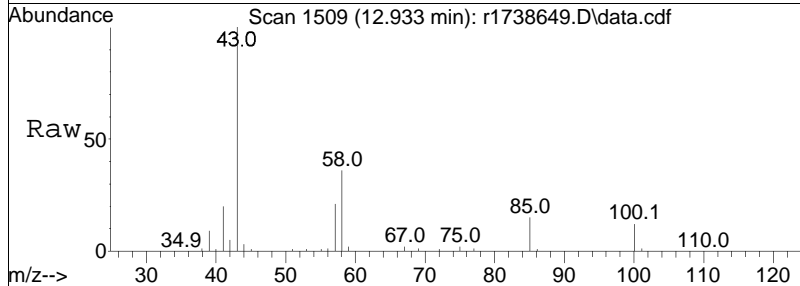
Tgt Ion	Resp	Lower	Upper
75	100		
39	44.3	33.7	50.5
77	32.0	25.1	37.7

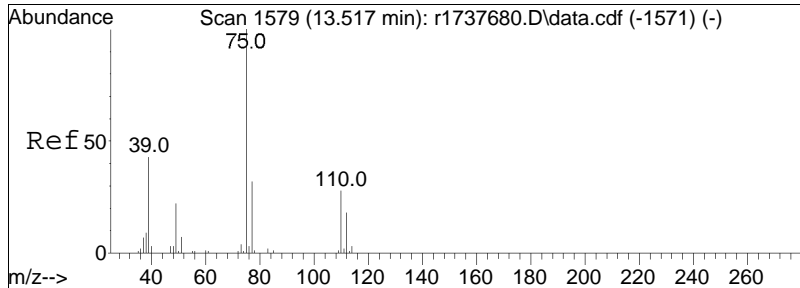




#64
 4-methyl-2-pentanone
 Concen: 11.40 ppbV
 RT: 12.933 min Scan# 1509
 Delta R.T. 0.008 min
 Lab File: r1738649.D
 Acq: 15 Feb 2024 3:25 PM

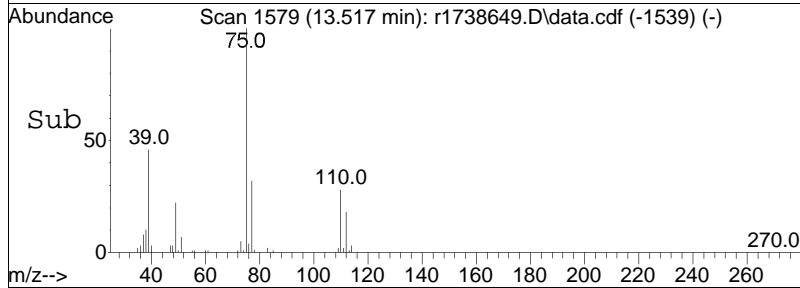
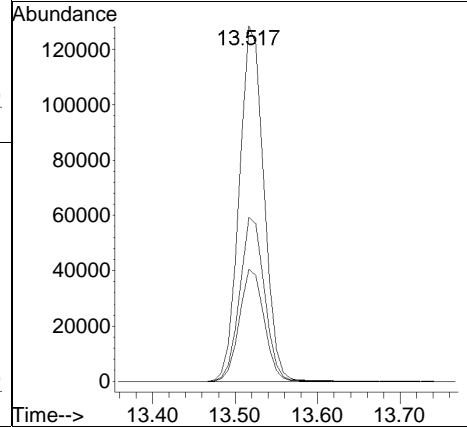
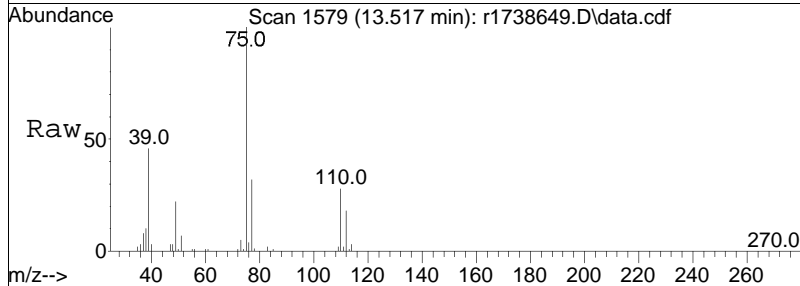
Tgt Ion	Resp	Lower	Upper
43	100		
58	36.0	27.9	41.9
100	12.4	9.9	14.9

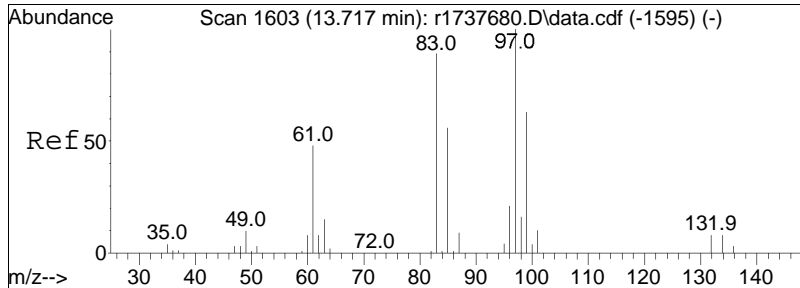




#65
 trans-1,3-dichloropropene
 Concen: 10.67 ppbV
 RT: 13.517 min Scan# 1579
 Delta R.T. 0.000 min
 Lab File: r1738649.D
 Acq: 15 Feb 2024 3:25 PM

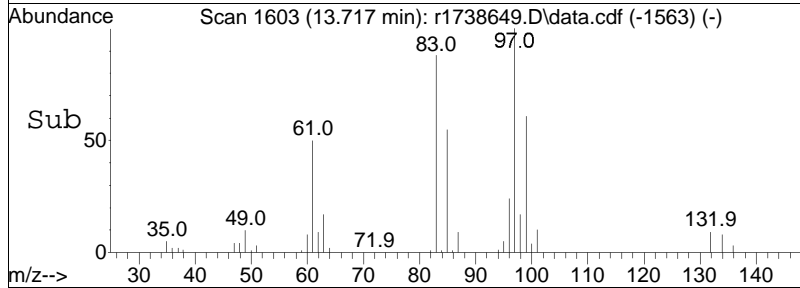
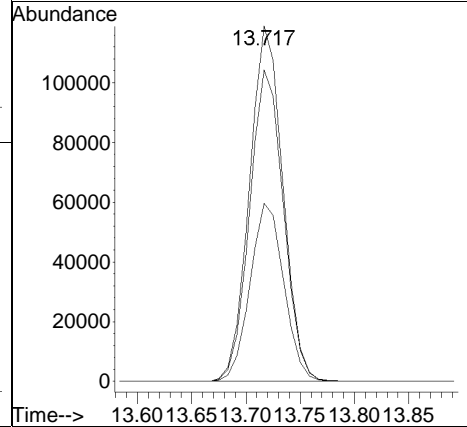
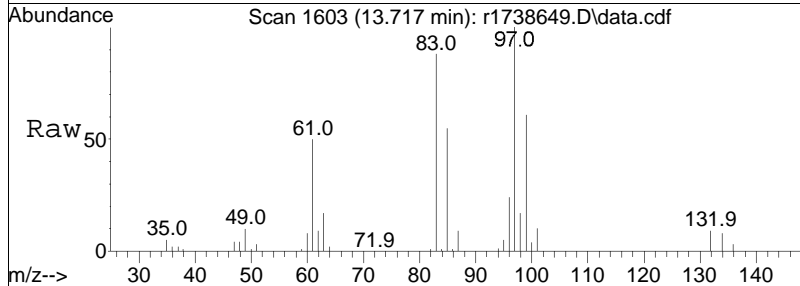
Tgt Ion:	Resp:		
Ion	Ratio	Lower	Upper
75	100		
77	31.6	25.3	37.9
39	46.2	34.2	51.4

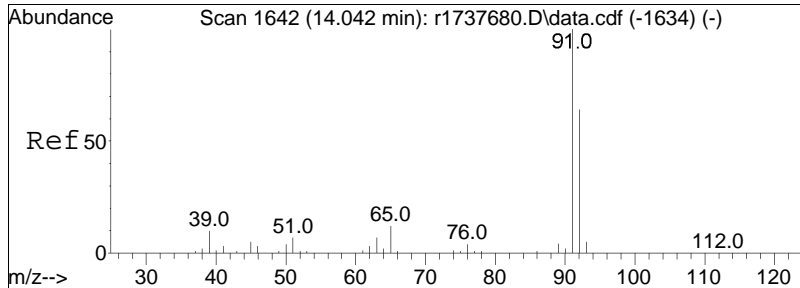




#66
 1,1,2-trichloroethane
 Concen: 11.69 ppbV
 RT: 13.717 min Scan# 1603
 Delta R.T. 0.000 min
 Lab File: r1738649.D
 Acq: 15 Feb 2024 3:25 PM

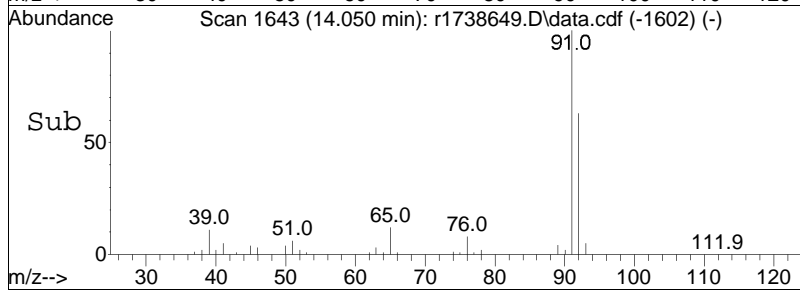
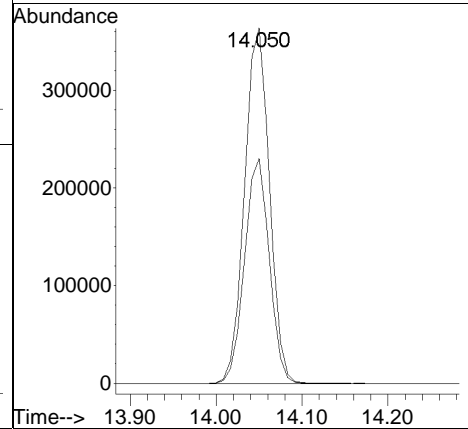
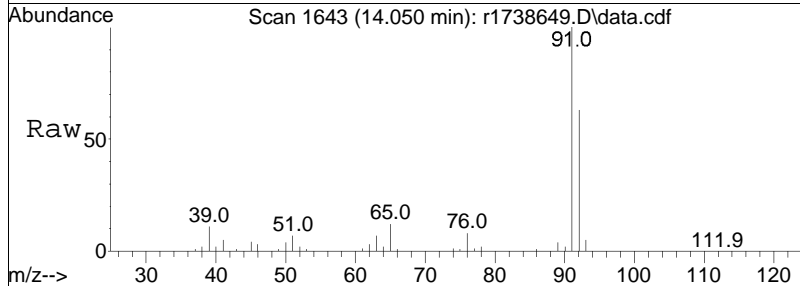
Tgt Ion	Resp	Lower	Upper
97	100		
83	87.7	71.0	106.4
61	50.1	38.3	57.5

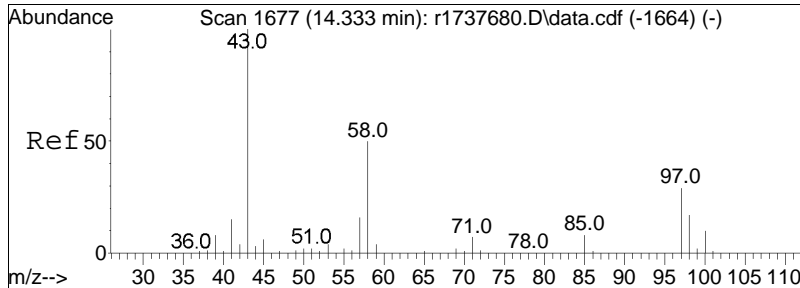




#68
 toluene
 Concen: 10.68 ppbV
 RT: 14.050 min Scan# 1643
 Delta R.T. 0.008 min
 Lab File: r1738649.D
 Acq: 15 Feb 2024 3:25 PM

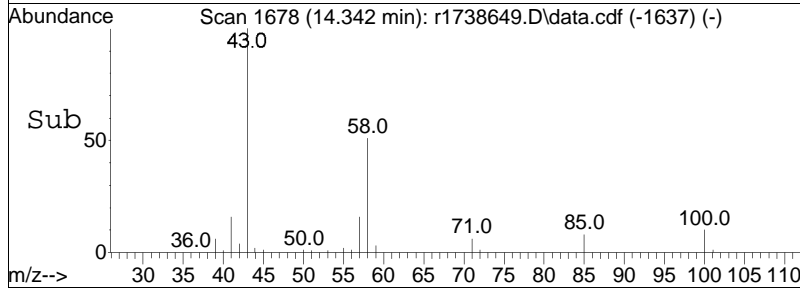
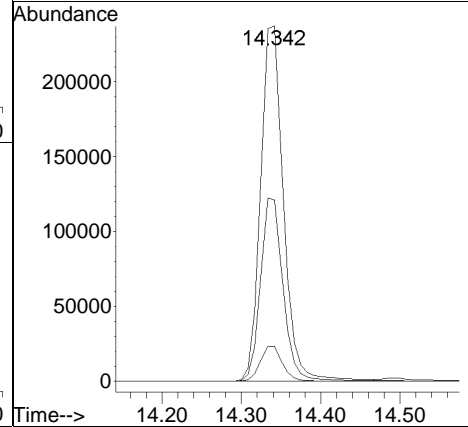
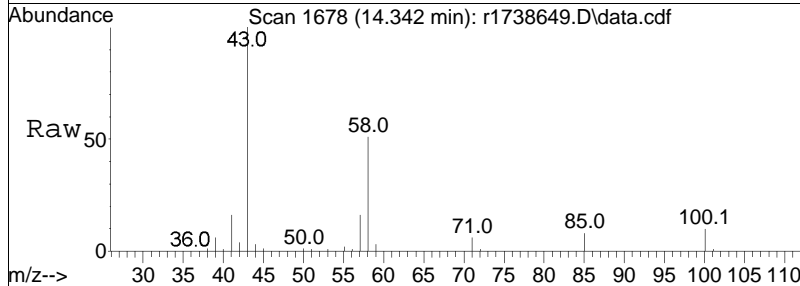
Tgt Ion: 91 Resp: 732156
 Ion Ratio Lower Upper
 91 100
 92 63.3 51.2 76.8

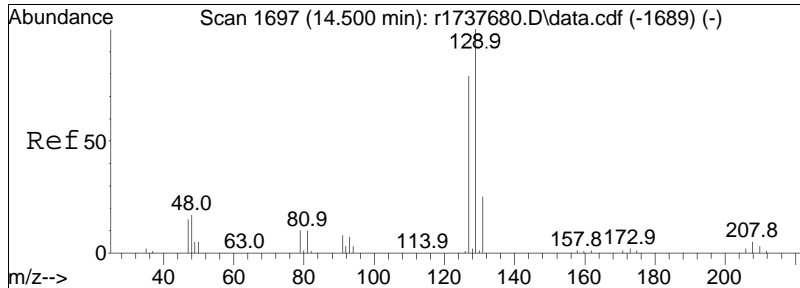




#72
 2-hexanone
 Concen: 10.75 ppbV
 RT: 14.342 min Scan# 1678
 Delta R.T. 0.008 min
 Lab File: r1738649.D
 Acq: 15 Feb 2024 3:25 PM

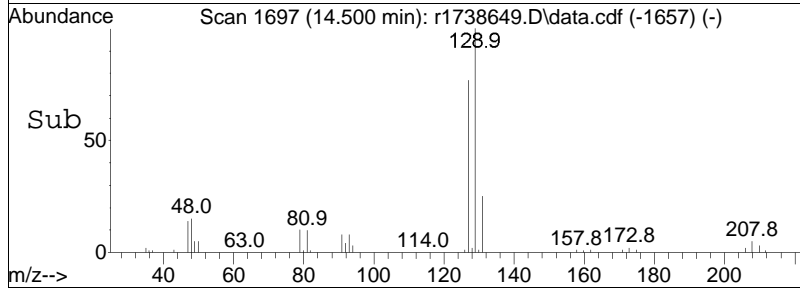
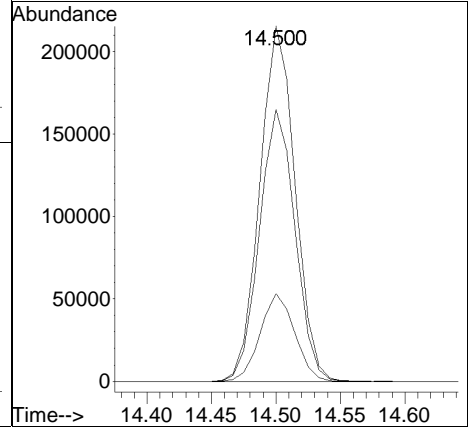
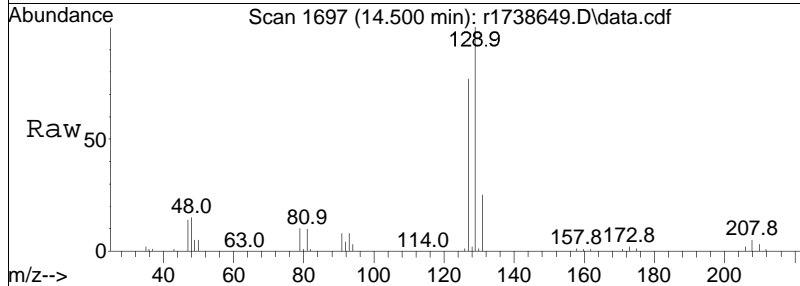
Tgt Ion:	Resp:		
Ion	Ratio	Lower	Upper
43	100		
58	51.0	40.1	60.1
100	9.8	8.2	12.4

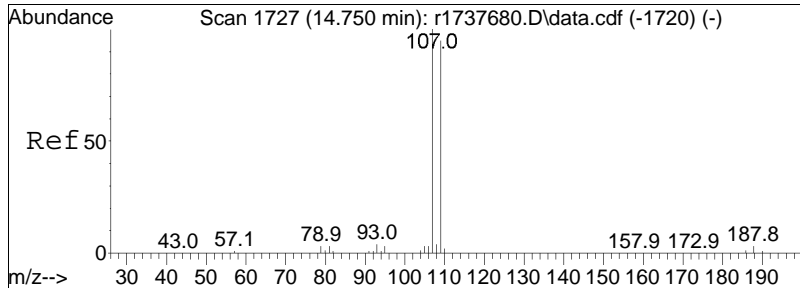




#74
 dibromochloromethane
 Concen: 14.18 ppbV
 RT: 14.500 min Scan# 1697
 Delta R.T. 0.000 min
 Lab File: r1738649.D
 Acq: 15 Feb 2024 3:25 PM

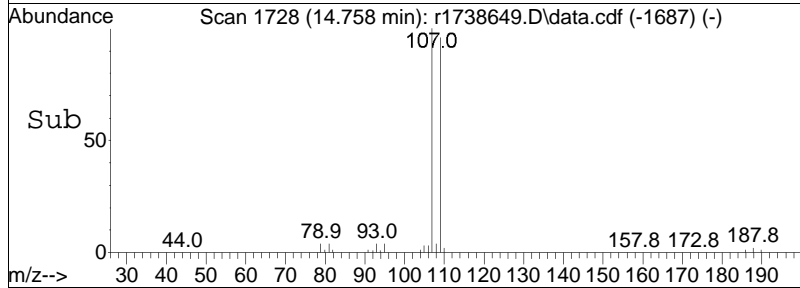
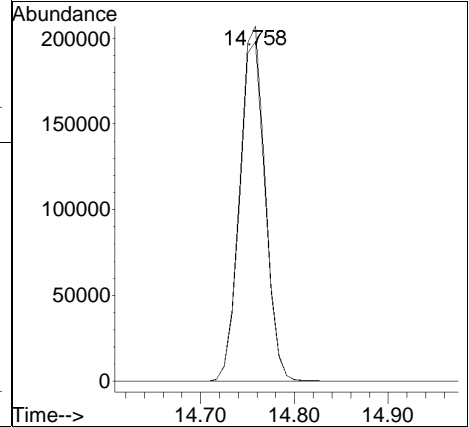
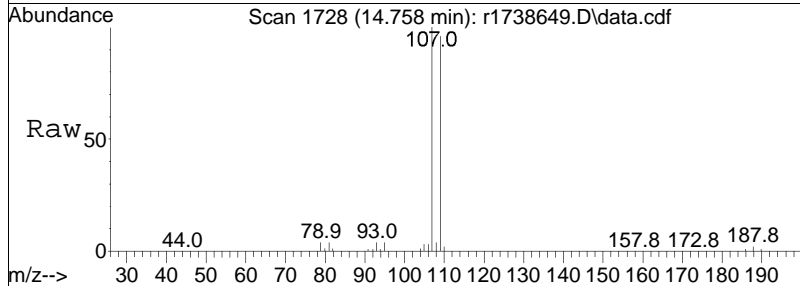
Tgt Ion	Resp	Lower	Upper
129	410379		
129	100		
127	76.6	63.3	94.9
131	24.8	19.6	29.4

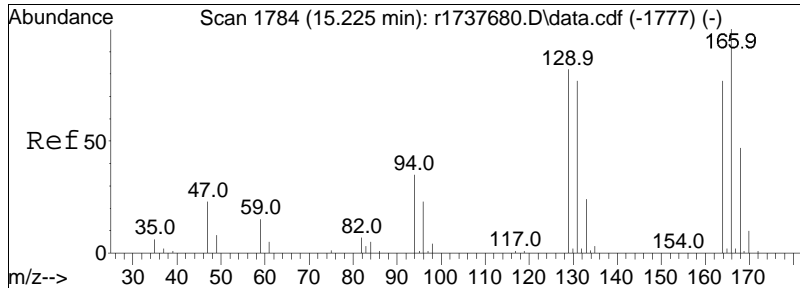




#75
 1,2-dibromoethane
 Concen: 11.11 ppbV
 RT: 14.758 min Scan# 1728
 Delta R.T. 0.008 min
 Lab File: r1738649.D
 Acq: 15 Feb 2024 3:25 PM

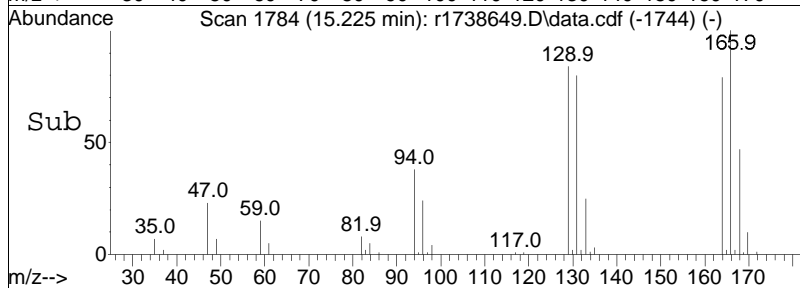
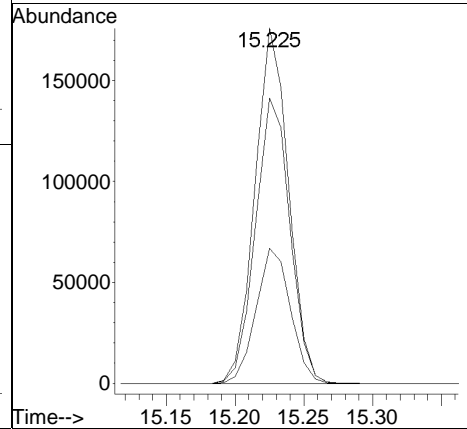
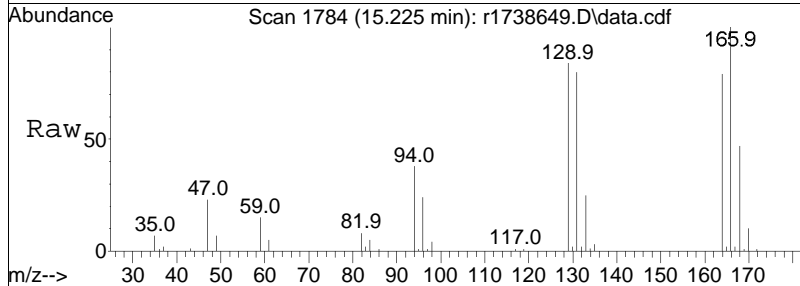
Tgt Ion	Resp	Lower	Upper
107	100		
109	95.7	76.4	114.6

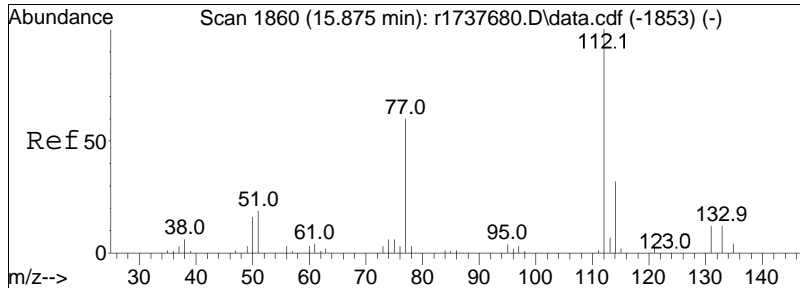




#78
 tetrachloroethene
 Concen: 10.95 ppbV
 RT: 15.225 min Scan# 1784
 Delta R.T. 0.000 min
 Lab File: r1738649.D
 Acq: 15 Feb 2024 3:25 PM

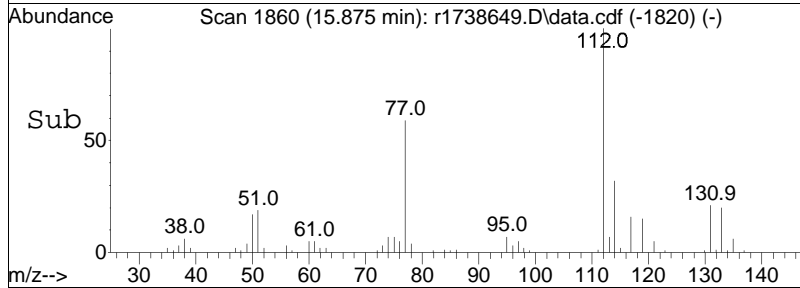
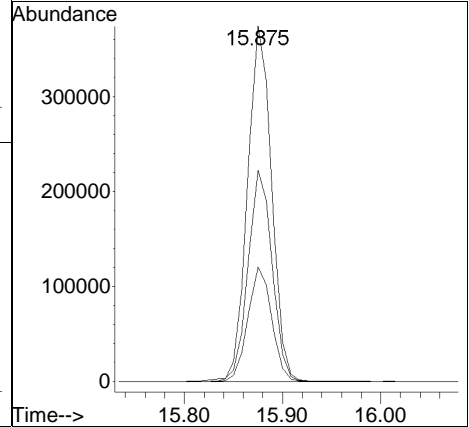
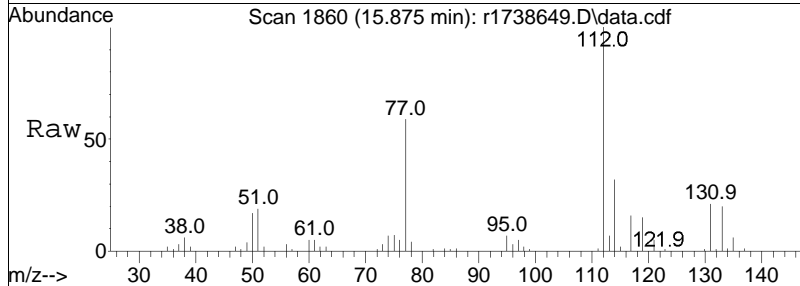
Tgt Ion	Ratio	Lower	Upper
166	100		
131	80.3	61.3	91.9
94	38.0	27.7	41.5

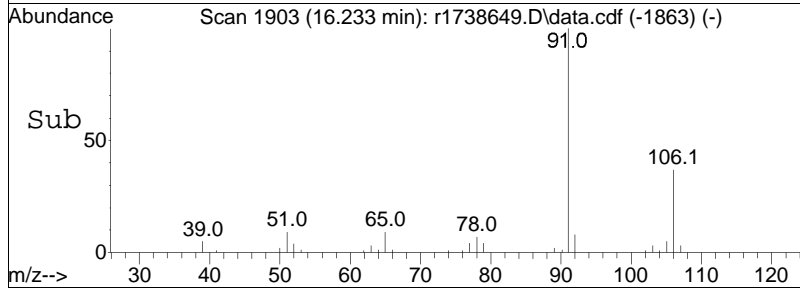
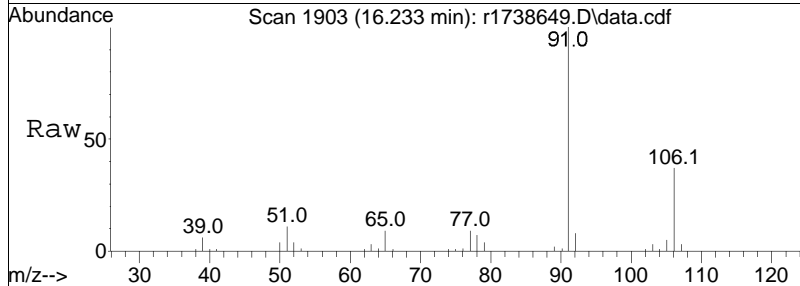
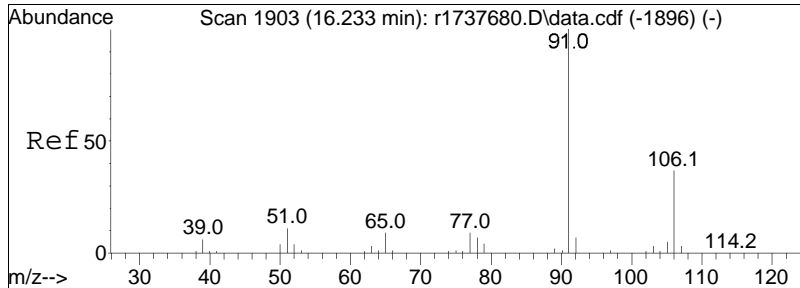




#80
 chlorobenzene
 Concen: 10.81 ppbV
 RT: 15.875 min Scan# 1860
 Delta R.T. 0.000 min
 Lab File: r1738649.D
 Acq: 15 Feb 2024 3:25 PM

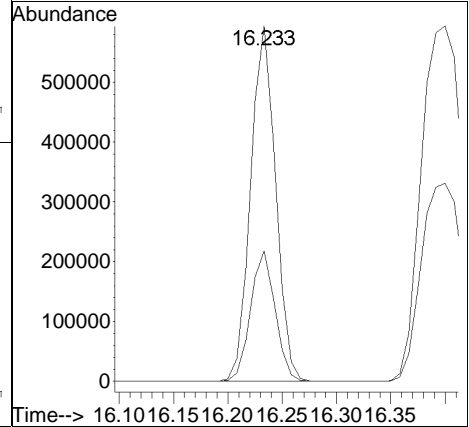
Tgt Ion	Resp	Lower	Upper
112	100		
114	32.2	25.8	38.8
77	59.4	48.4	72.6

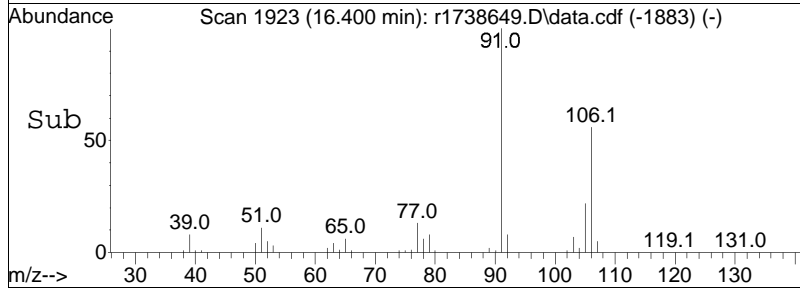
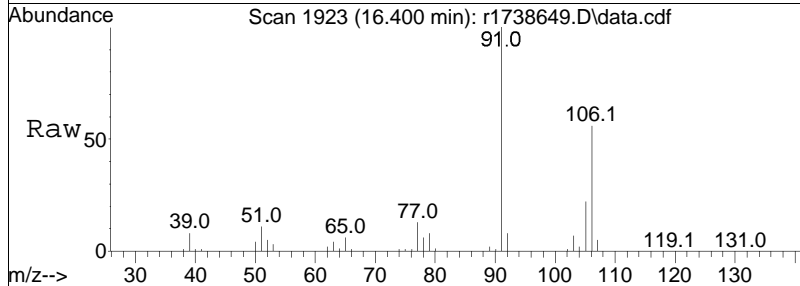
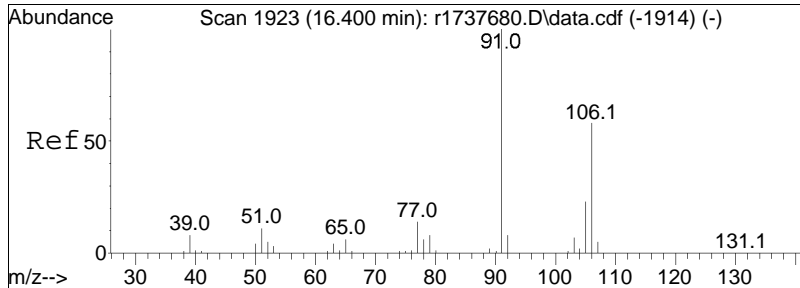




#81
 ethylbenzene
 Concen: 10.99 ppbV
 RT: 16.233 min Scan# 1903
 Delta R.T. 0.000 min
 Lab File: r1738649.D
 Acq: 15 Feb 2024 3:25 PM

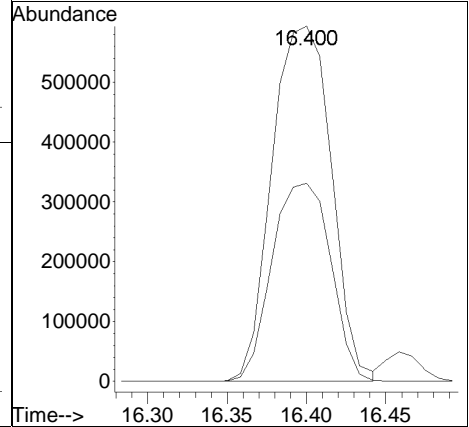
Tgt Ion: 91 Resp: 949106
 Ion Ratio Lower Upper
 91 100
 106 36.7 29.4 44.0

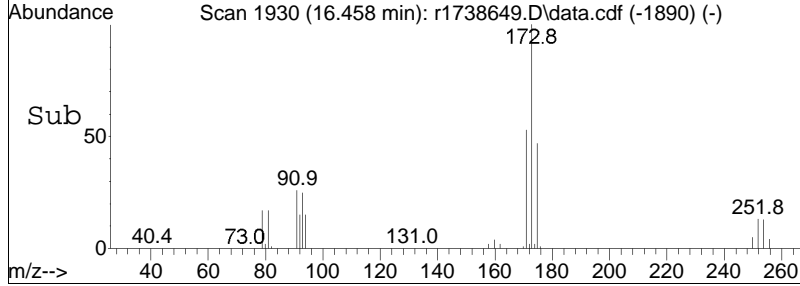
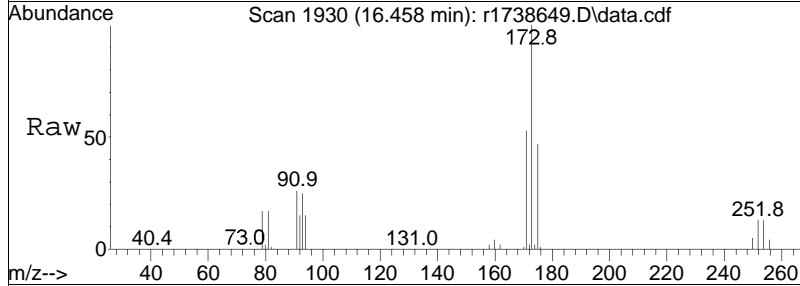
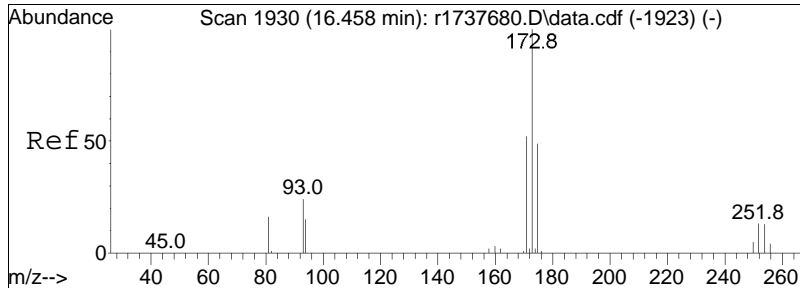




#83
 m+p-xylene
 Concen: 22.58 ppbV
 RT: 16.400 min Scan# 1923
 Delta R.T. 0.000 min
 Lab File: r1738649.D
 Acq: 15 Feb 2024 3:25 PM

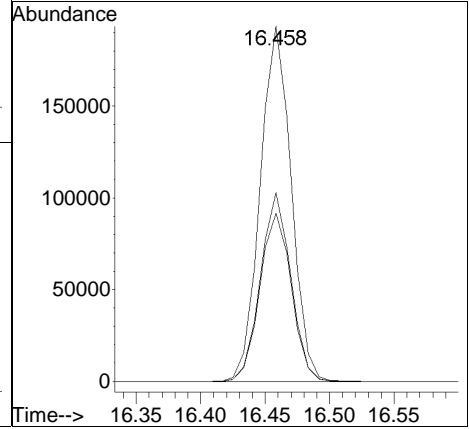
Tgt Ion: 91 Resp: 1544940
 Ion Ratio Lower Upper
 91 100
 106 55.8 46.1 69.1

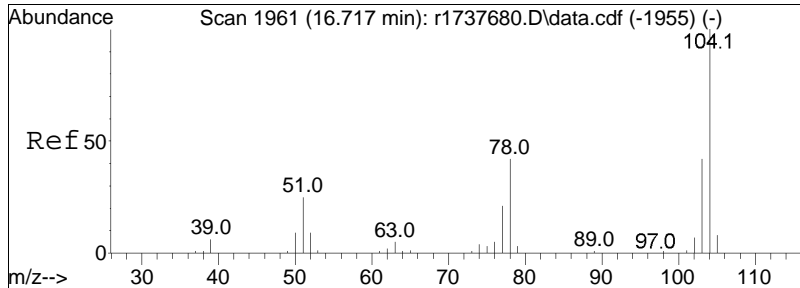




#84
 bromoform
 Concen: 14.45 ppbV
 RT: 16.458 min Scan# 1930
 Delta R.T. 0.000 min
 Lab File: r1738649.D
 Acq: 15 Feb 2024 3:25 PM

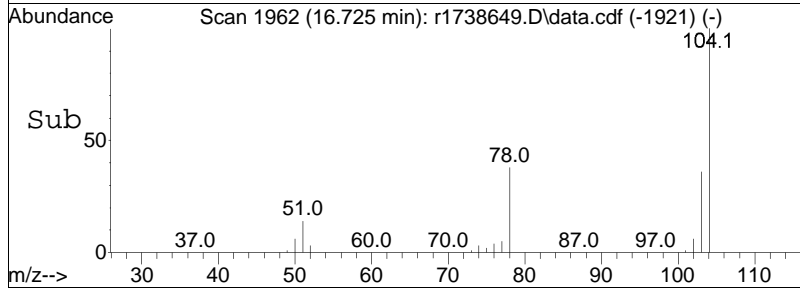
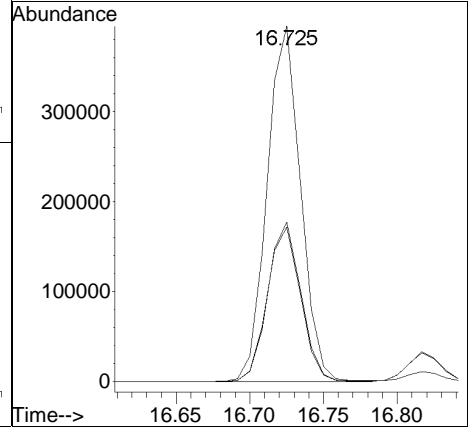
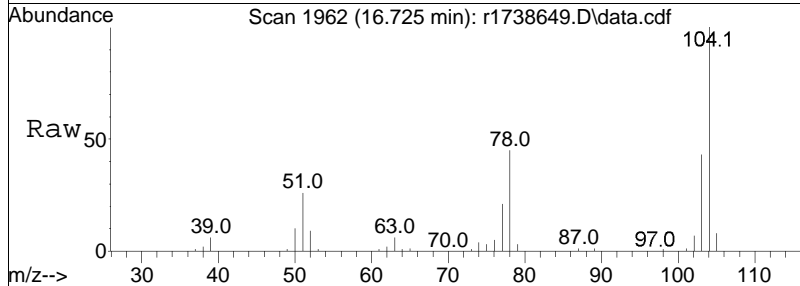
Tgt Ion	Ratio	Lower	Upper
173	100		
175	47.4	39.1	58.7
171	53.1	41.8	62.8

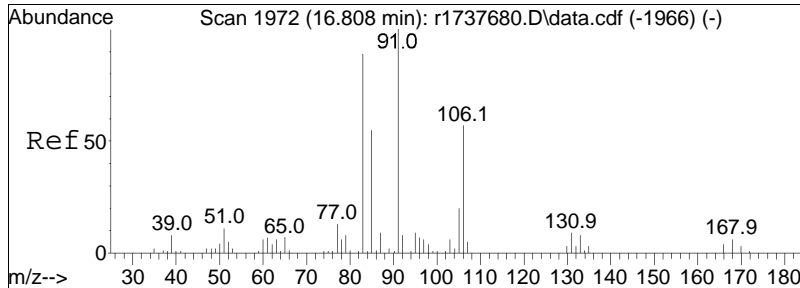




#85
 styrene
 Concen: 10.75 ppbV
 RT: 16.725 min Scan# 1962
 Delta R.T. 0.008 min
 Lab File: r1738649.D
 Acq: 15 Feb 2024 3:25 PM

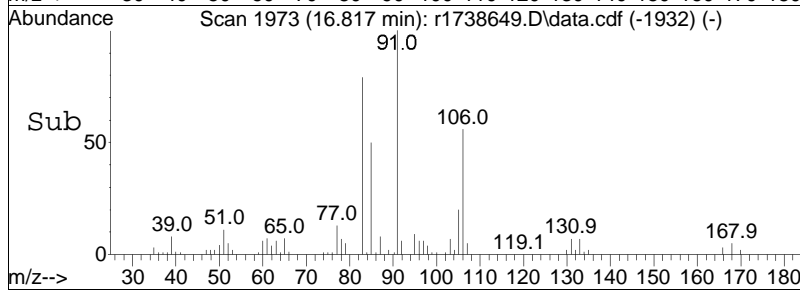
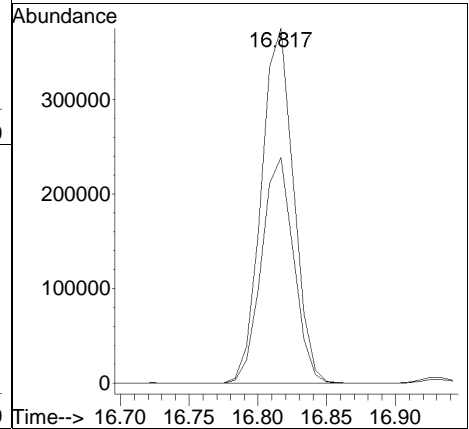
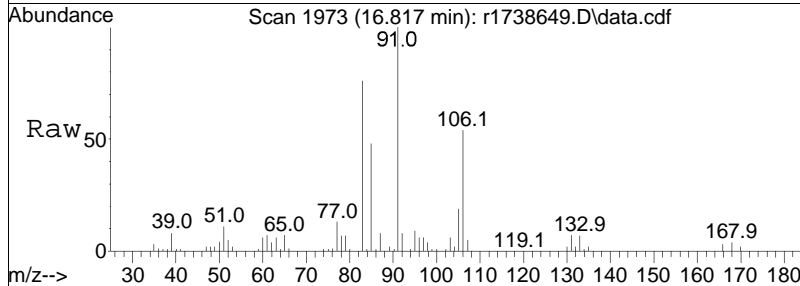
Tgt Ion	Ratio	Lower	Upper
104	100		
103	43.5	33.9	50.9
78	44.9	33.4	50.2

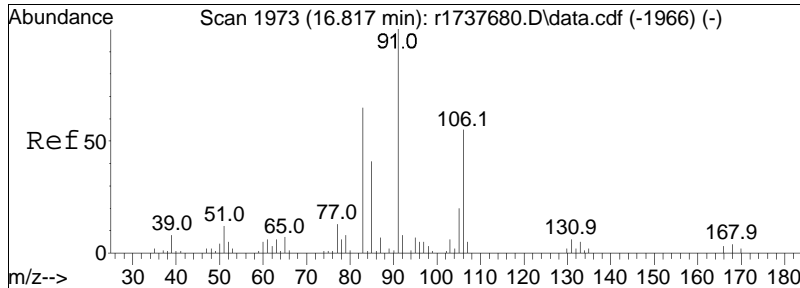




#86
 1,1,2,2-tetrachloroethane
 Concen: 11.88 ppbV
 RT: 16.817 min Scan# 1973
 Delta R.T. 0.008 min
 Lab File: r1738649.D
 Acq: 15 Feb 2024 3:25 PM

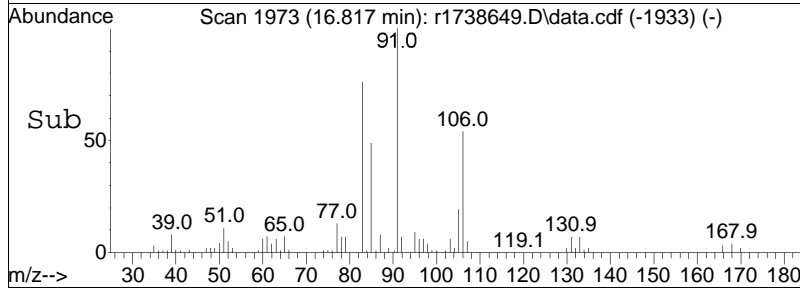
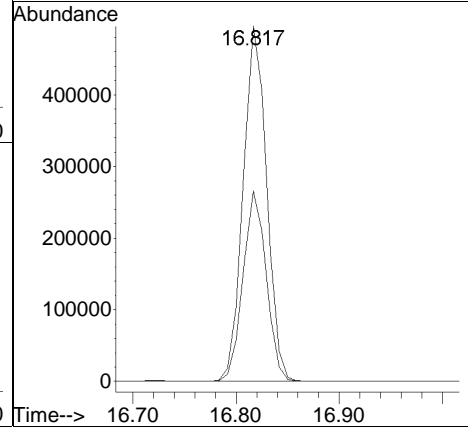
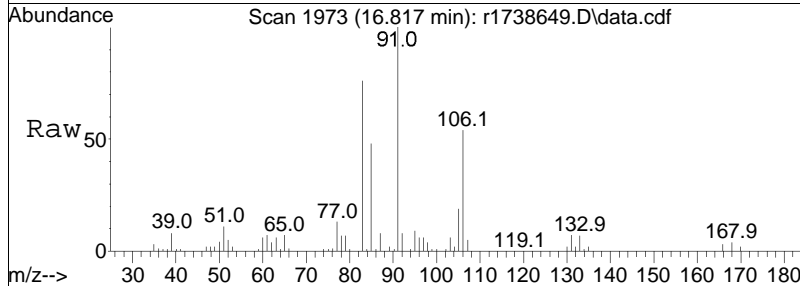
Tgt Ion:	83	Resp:	612884
Ion Ratio	Lower	Upper	
83	100		
85	63.6	50.1	75.1

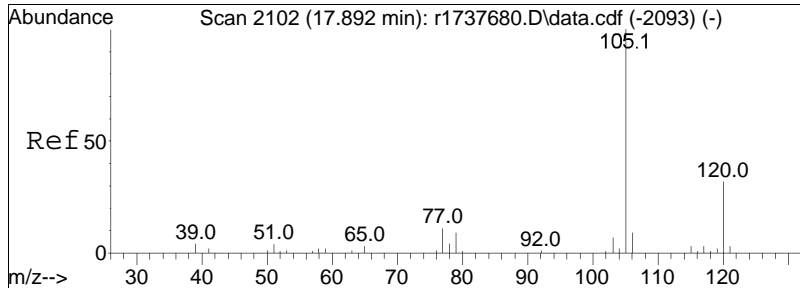




#87
 o-xylene
 Concen: 11.46 ppbV
 RT: 16.817 min Scan# 1973
 Delta R.T. 0.000 min
 Lab File: r1738649.D
 Acq: 15 Feb 2024 3:25 PM

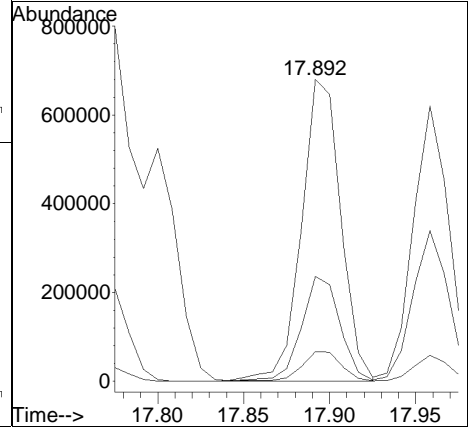
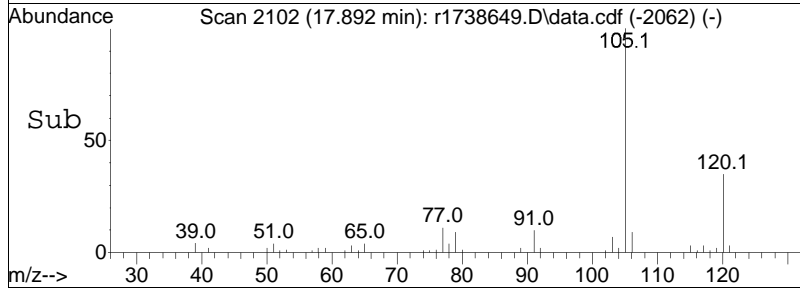
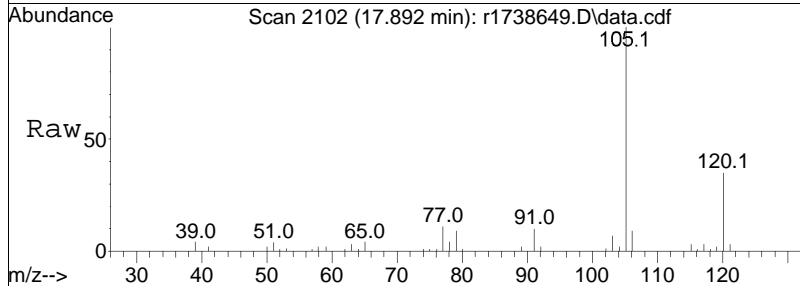
Tgt Ion: 91 Resp: 785201
 Ion Ratio Lower Upper
 91 100
 106 53.6 44.2 66.4

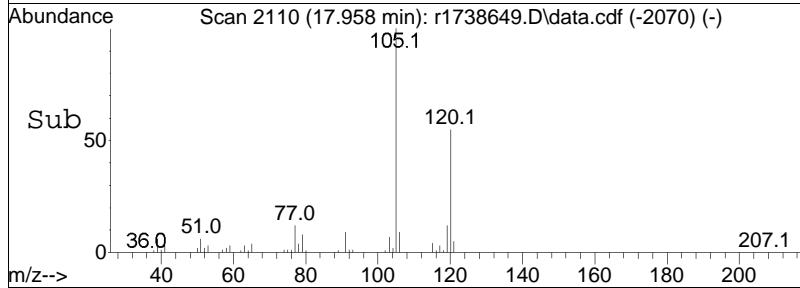
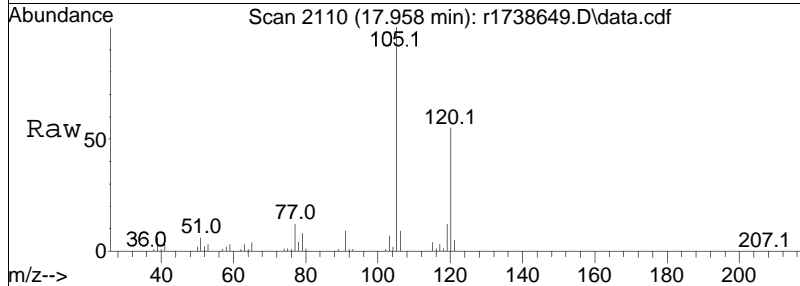
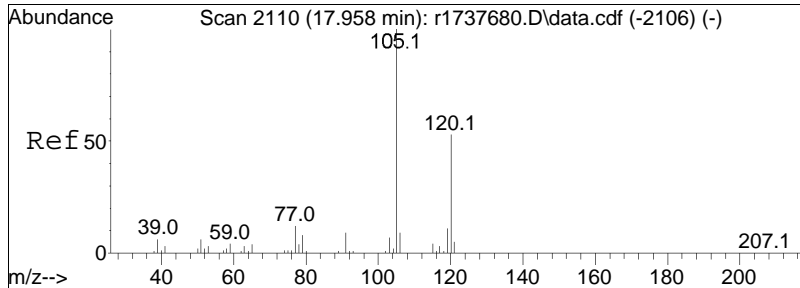




#96
 4-ethyl toluene
 Concen: 11.47 ppbV
 RT: 17.892 min Scan# 2102
 Delta R.T. 0.000 min
 Lab File: r1738649.D
 Acq: 15 Feb 2024 3:25 PM

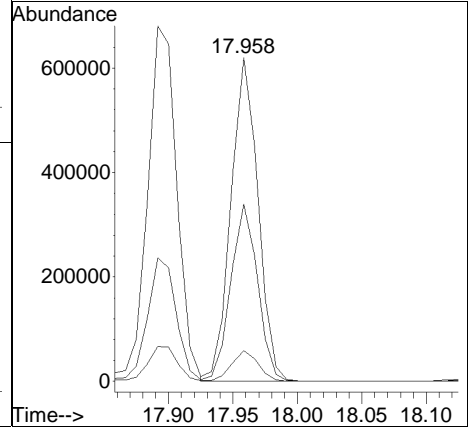
Tgt Ion	Resp	Lower	Upper
105	100		
120	34.7	25.8	38.6
91	9.9	7.6	11.4

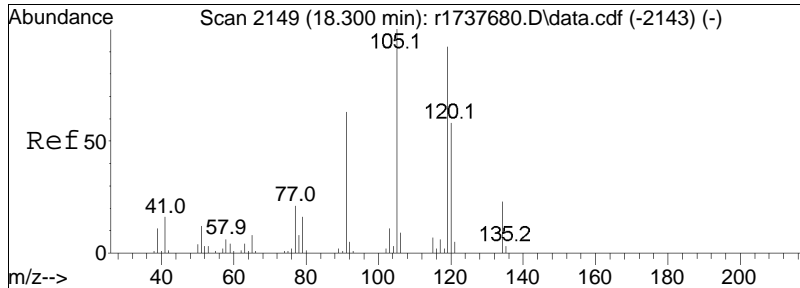




#97
 1,3,5-trimethylbenzene
 Concen: 11.11 ppbV
 RT: 17.958 min Scan# 2110
 Delta R.T. 0.000 min
 Lab File: r1738649.D
 Acq: 15 Feb 2024 3:25 PM

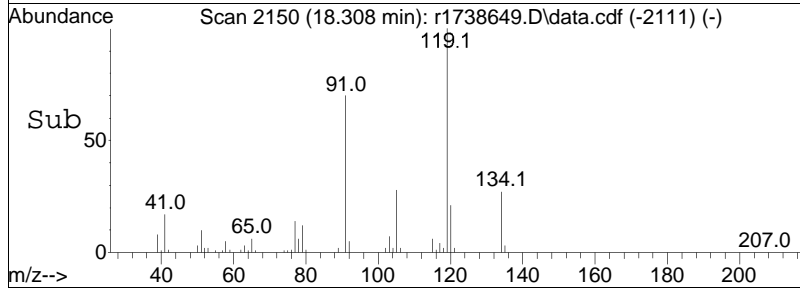
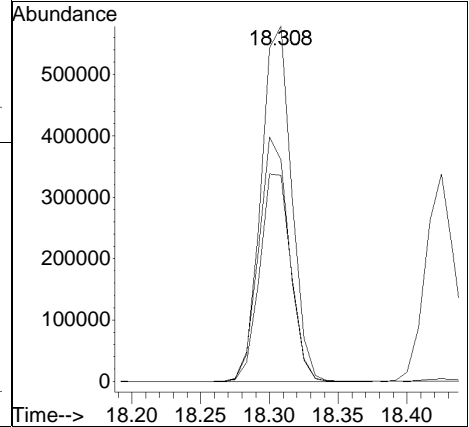
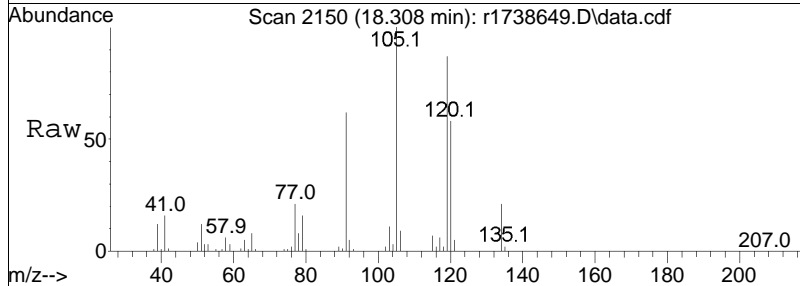
Tgt Ion	Resp	Lower	Upper
105	100		
120	54.8	42.7	64.1
91	9.5	7.3	10.9

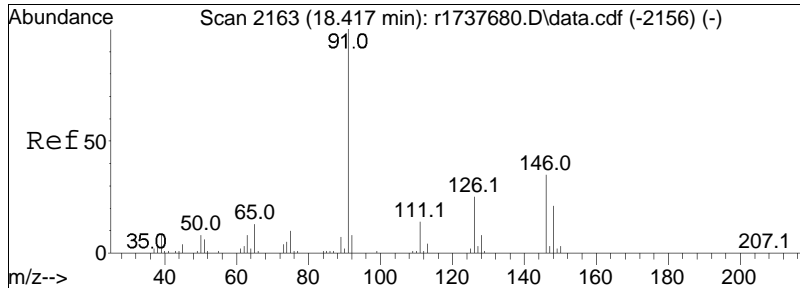




#99
 1,2,4-trimethylbenzene
 Concen: 11.03 ppbV
 RT: 18.308 min Scan# 2150
 Delta R.T. 0.008 min
 Lab File: r1738649.D
 Acq: 15 Feb 2024 3:25 PM

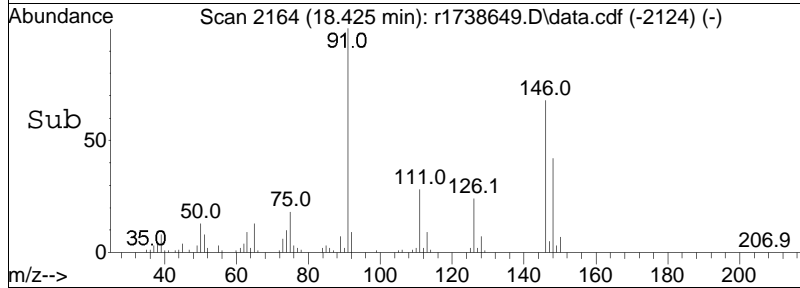
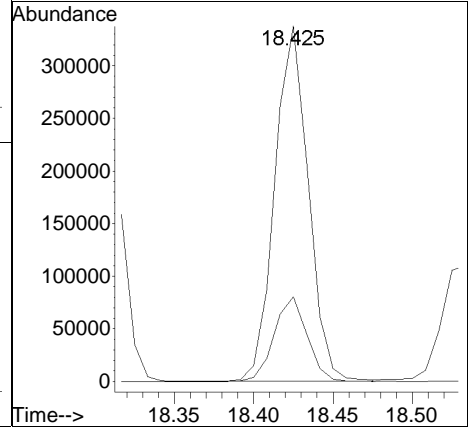
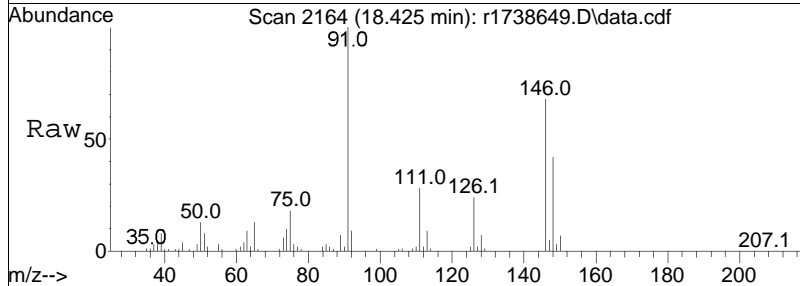
Tgt Ion	Resp	Lower	Upper
105	100		
120	58.0	46.0	69.0
91	62.3	50.6	76.0

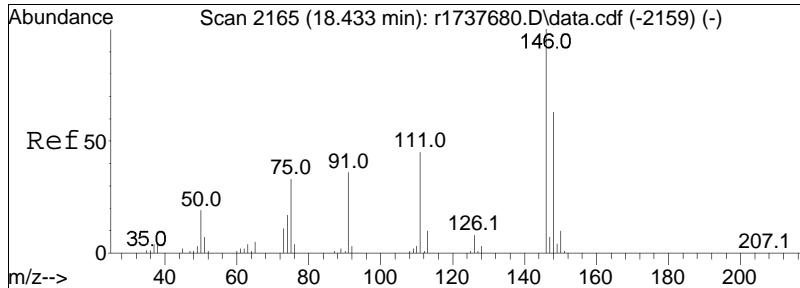




#101
 Benzyl Chloride
 Concen: 11.02 ppbV
 RT: 18.425 min Scan# 2164
 Delta R.T. 0.008 min
 Lab File: r1738649.D
 Acq: 15 Feb 2024 3:25 PM

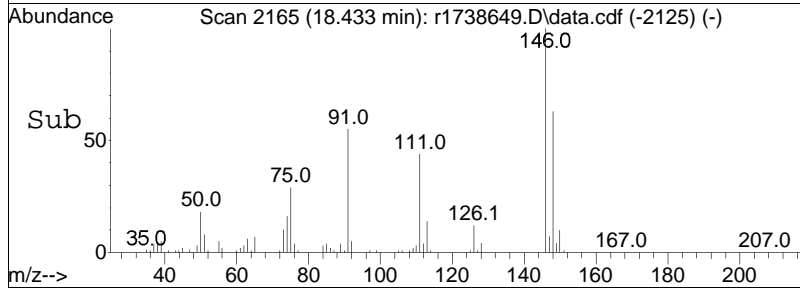
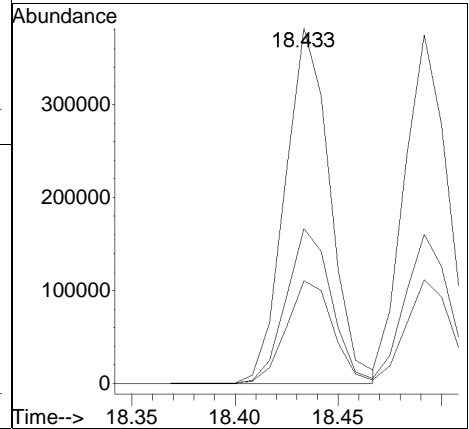
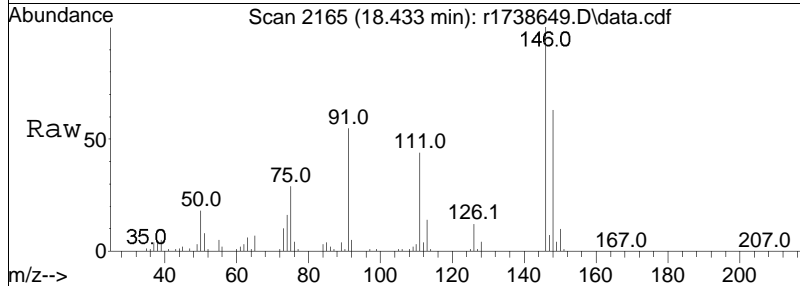
Tgt Ion: 91 Resp: 496844
 Ion Ratio Lower Upper
 91 100
 126 23.8 19.6 29.4

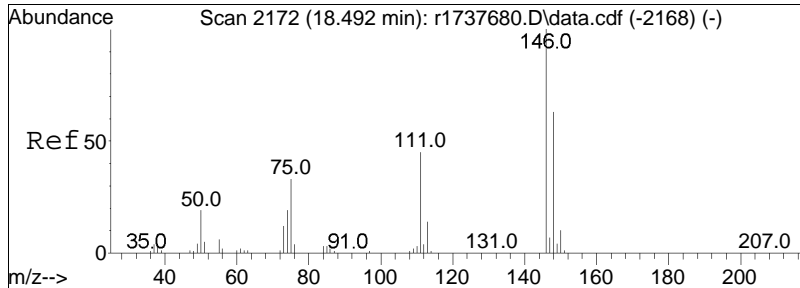




#102
 1,3-dichlorobenzene
 Concen: 11.87 ppbV
 RT: 18.433 min Scan# 2165
 Delta R.T. 0.000 min
 Lab File: r1738649.D
 Acq: 15 Feb 2024 3:25 PM

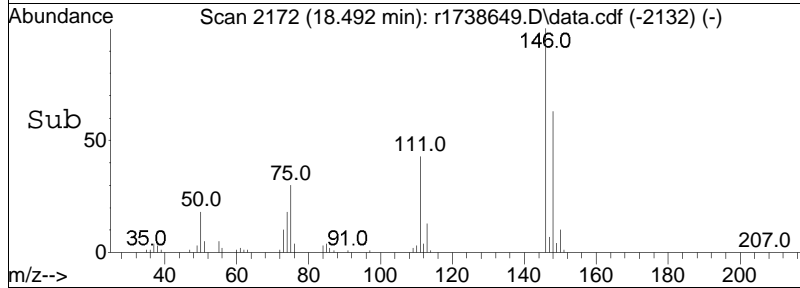
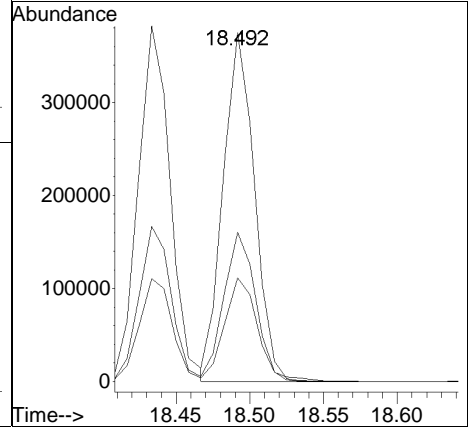
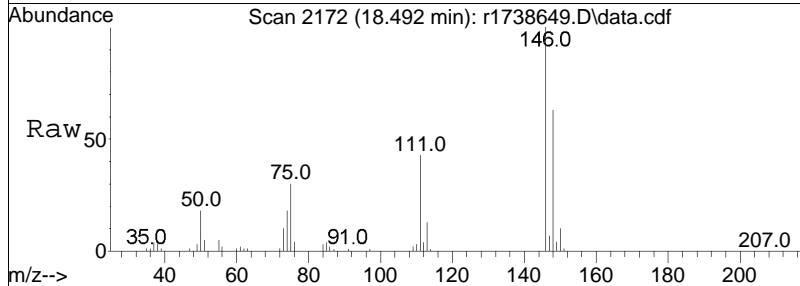
Tgt Ion	Ratio	Lower	Upper
146	100		
111	43.6	36.2	54.2
75	28.9	26.0	39.0

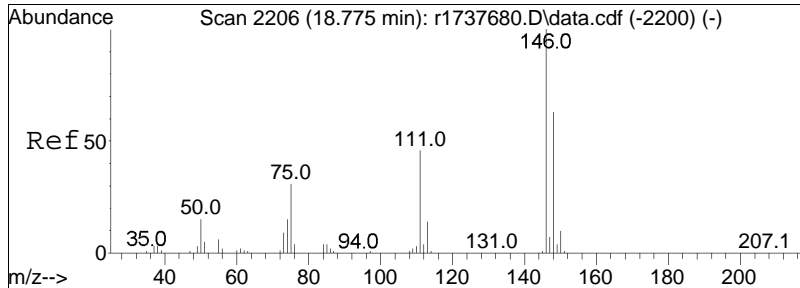




#103
 1,4-dichlorobenzene
 Concen: 11.70 ppbV
 RT: 18.492 min Scan# 2172
 Delta R.T. 0.000 min
 Lab File: r1738649.D
 Acq: 15 Feb 2024 3:25 PM

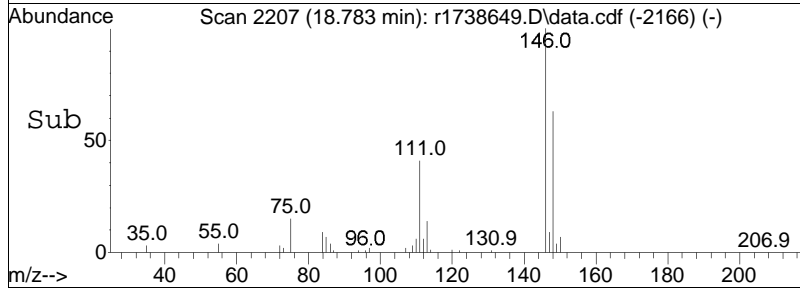
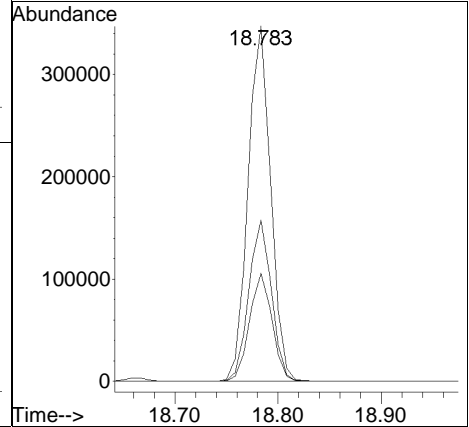
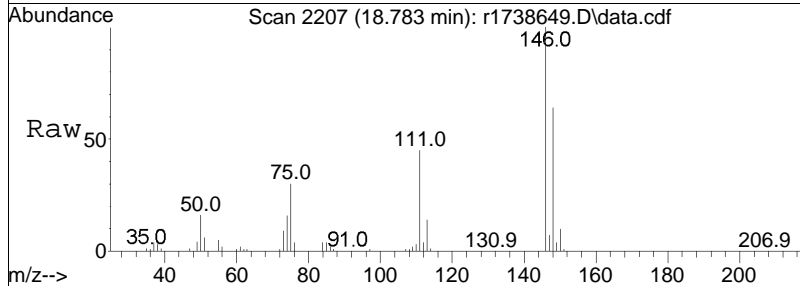
Tgt Ion	Ratio	Lower	Upper
146	100		
111	42.8	35.8	53.6
75	29.7	26.6	39.8

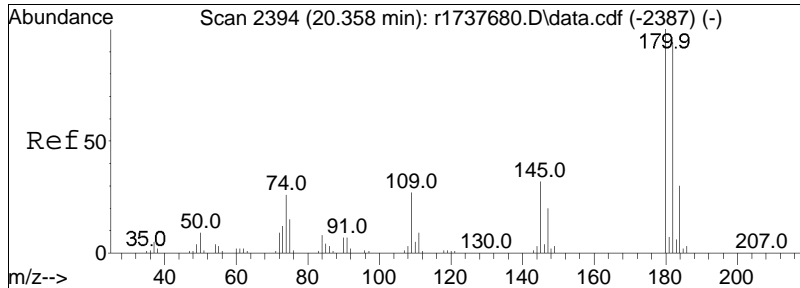




#107
 1,2-dichlorobenzene
 Concen: 11.42 ppbV
 RT: 18.783 min Scan# 2207
 Delta R.T. 0.008 min
 Lab File: r1738649.D
 Acq: 15 Feb 2024 3:25 PM

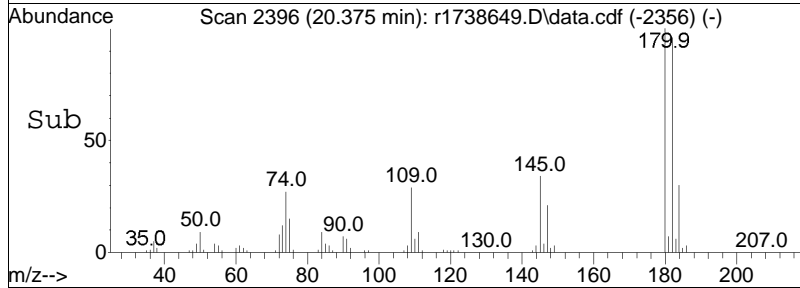
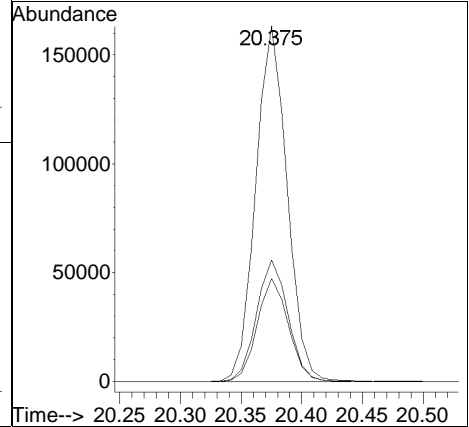
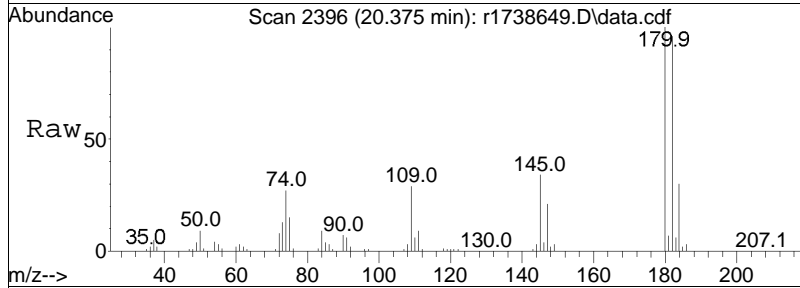
Tgt Ion	Ratio	Lower	Upper
146	100		
111	45.4	36.5	54.7
75	30.4	24.6	36.8

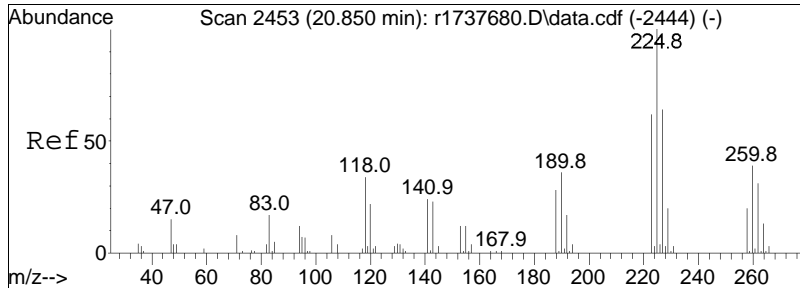




#115
 1,2,4-trichlorobenzene
 Concen: 9.52 ppbV
 RT: 20.375 min Scan# 2396
 Delta R.T. 0.017 min
 Lab File: r1738649.D
 Acq: 15 Feb 2024 3:25 PM

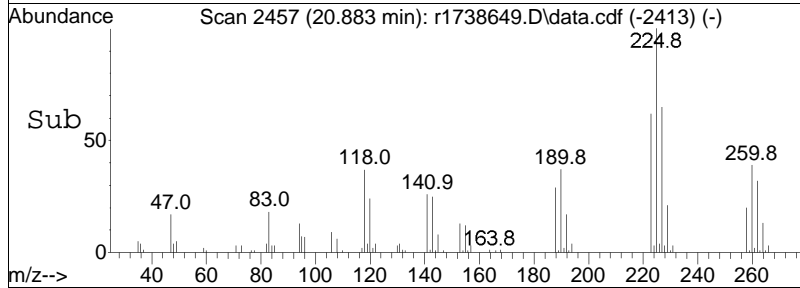
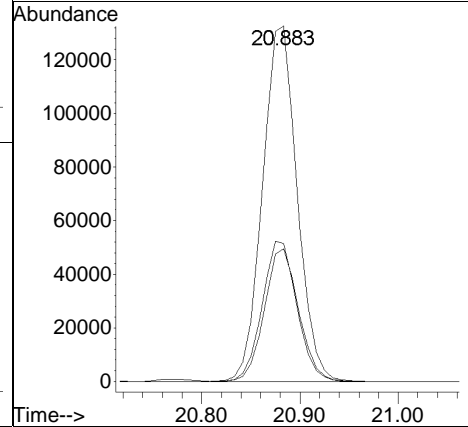
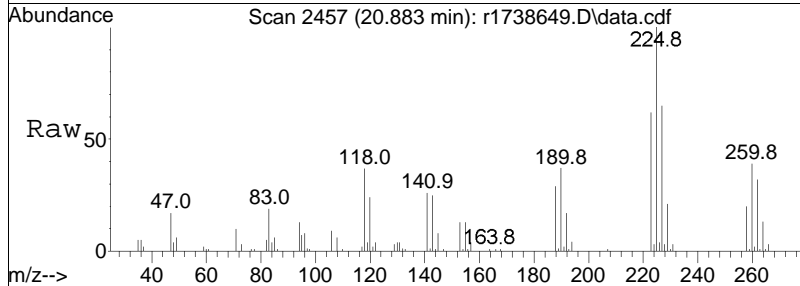
Tgt Ion	Ratio	Lower	Upper
180	100		
145	34.1	25.4	38.2
109	28.9	21.8	32.8





#119
 hexachlorobutadiene
 Concen: 10.92 ppbV
 RT: 20.883 min Scan# 2457
 Delta R.T. 0.033 min
 Lab File: r1738649.D
 Acq: 15 Feb 2024 3:25 PM

Tgt Ion	Ratio	Lower	Upper
225	100		
260	38.8	31.5	47.3
118	37.3	27.3	40.9



Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab17\2024\02\0215T\
 Data File : r1738658.D
 Acq On : 15 Feb 2024 11:36 PM
 Operator : AIRLAB17:JMB
 Sample : WG1885731-5,3,250,250
 Misc : WG1885731,ICAL20743
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 16 08:06:06 2024
 Quant Method : O:\Forensics\Data\Airlab17\2024\02\0215T\TFS17_240107.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Mon Jan 08 15:04:31 2024
 Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab17\2024\02\0215T\r1738648.D
 Sub List : TO15-NY-7-SIM - .

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	8.858	49	347800	10.000	ppbV	0.02
Standard Area =	370847		Recovery =	93.79%		
43) 1,4-difluorobenzene	11.097	114	892228	10.000	ppbV	0.03
Standard Area =	986523		Recovery =	90.44%		
67) chlorobenzene-D5	15.850	54	130556	10.000	ppbV	0.02
Standard Area =	142298		Recovery =	91.75%		

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) dichlorodifluoromethane	3.880	85	17130	0.520	ppbV	97
6) chloromethane	4.036	50	9001	0.514	ppbV	100
7) Freon-114	4.138		0	N.D.		
10) 1,3-butadiene	4.384		0	N.D.		
13) bromomethane	0.000		0	N.D.		
14) chloroethane	0.000		0	N.D.		
15) ethanol	4.960	31	122009	8.196	ppbV	98
17) vinyl bromide	0.000		0	N.D.		
19) acetone	5.467	43	50715M6	2.395	ppbV	
21) trichlorofluoromethane	5.647	101	6249	0.240	ppbV	95
22) isopropyl alcohol	5.737	45	20769	0.755	ppbV #	95
27) tertiary butyl alcohol	6.396	59	4594	0.143	ppbV #	59
28) methylene chloride	6.474	49	14049	0.603	ppbV	89
29) 3-chloropropene	6.468		0	N.D.		
30) carbon disulfide	6.768		0	N.D.		
31) Freon 113	6.774	101	2127	0.063	ppbV #	94
32) trans-1,2-dichloroethene	0.000		0	N.D.		
33) 1,1-dichloroethane	0.000		0	N.D.		
34) MTBE	0.000		0	N.D.		
36) 2-butanone	8.200	43	6106	0.144	ppbV #	98
38) Ethyl Acetate	0.000		0	N.D.		
39) chloroform	9.008		0	N.D.		
40) Tetrahydrofuran	0.000		0	N.D.	d	
42) 1,2-dichloroethane	9.842		0	N.D.		
44) hexane	8.933	57	2174	0.074	ppbV #	10
50) benzene	10.663	78	13091	0.198	ppbV	93
53) cyclohexane	10.990		0	N.D.		
56) 1,2-dichloropropane	0.000		0	N.D.		

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab17\2024\02\0215T\
 Data File : r1738658.D
 Acq On : 15 Feb 2024 11:36 PM
 Operator : AIRLAB17:JMB
 Sample : WG1885731-5,3,250,250
 Misc : WG1885731,ICAL20743
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 16 08:06:06 2024
 Quant Method : O:\Forensics\Data\Airlab17\2024\02\0215T\TFS17_240107.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Mon Jan 08 15:04:31 2024
 Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab17\2024\02\0215T\r1738648.D
 Sub List : TO15-NY-7-SIM - .

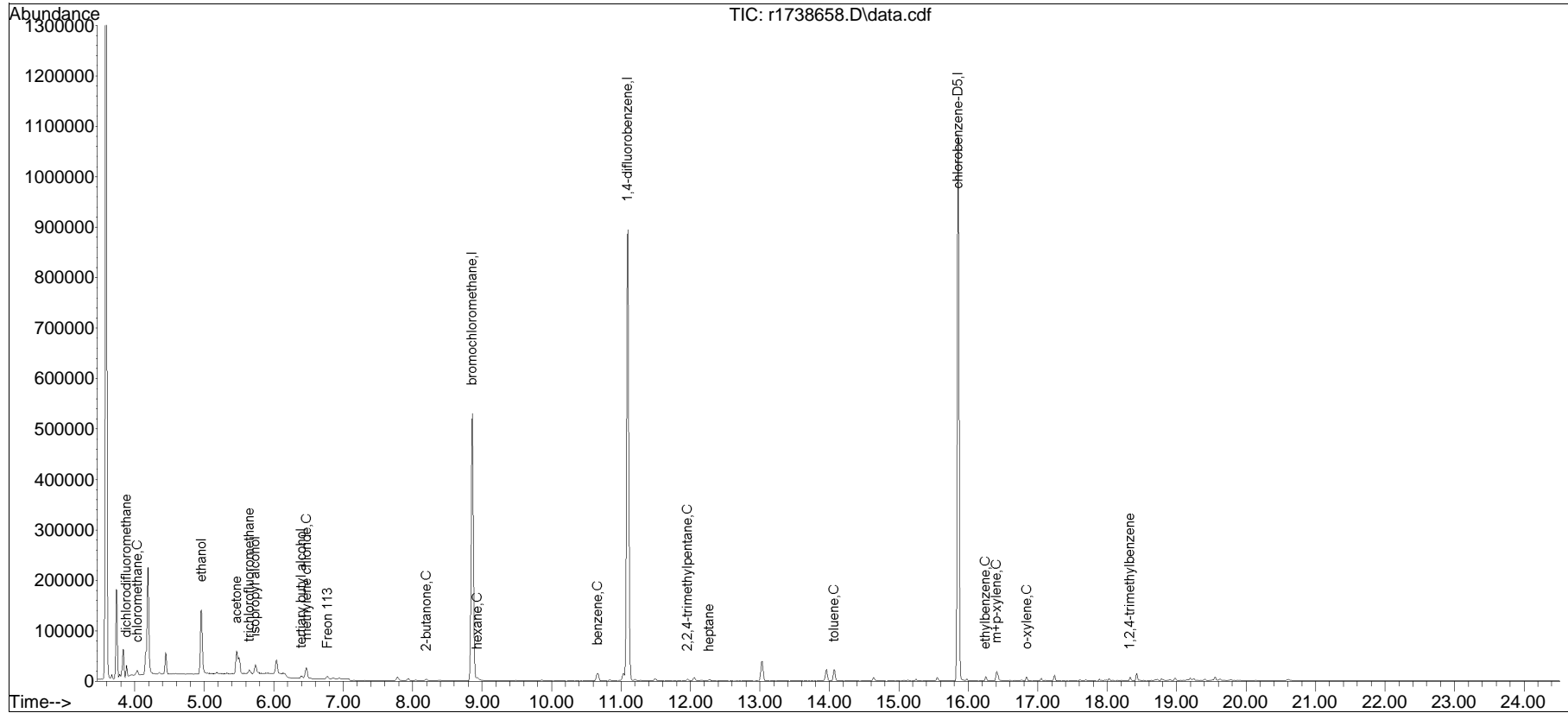
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
57) bromodichloromethane	0.000		0		N.D.	
58) 1,4-dioxane	0.000		0		N.D.	
60) 2,2,4-trimethylpentane	11.957	57	3663	0.037	ppbV #	79
62) heptane	12.270	43	1597	0.038	ppbV #	72
63) cis-1,3-dichloropropene	0.000		0		N.D.	
64) 4-methyl-2-pentanone	0.000		0		N.D. d	
65) trans-1,3-dichloropropene	0.000		0		N.D.	
66) 1,1,2-trichloroethane	0.000		0		N.D.	
68) toluene	14.067	91	18330	0.255	ppbV	99
72) 2-hexanone	14.350		0		N.D.	
74) dibromochloromethane	0.000		0		N.D.	
75) 1,2-dibromoethane	0.000		0		N.D.	
80) chlorobenzene	0.000		0		N.D.	
81) ethylbenzene	16.250	91	6005	0.066	ppbV	97
83) m+p-xylene	16.408	91	15484	0.216	ppbV	97
84) bromoform	0.000		0		N.D.	
85) styrene	16.742		0		N.D.	
86) 1,1,2,2-tetrachloroethane	0.000		0		N.D.	
87) o-xylene	16.842	91	5060	0.071	ppbV	98
96) 4-ethyl toluene	17.883		0		N.D.	
97) 1,3,5-trimethylbenzene	17.983		0		N.D.	
99) 1,2,4-trimethylbenzene	18.325	105	3295	0.039	ppbV #	62
101) Benzyl Chloride	18.333		0		N.D.	
102) 1,3-dichlorobenzene	18.517		0		N.D.	
103) 1,4-dichlorobenzene	18.517		0		N.D.	
107) 1,2-dichlorobenzene	0.000		0		N.D.	
115) 1,2,4-trichlorobenzene	0.000		0		N.D.	
119) hexachlorobutadiene	0.000		0		N.D.	

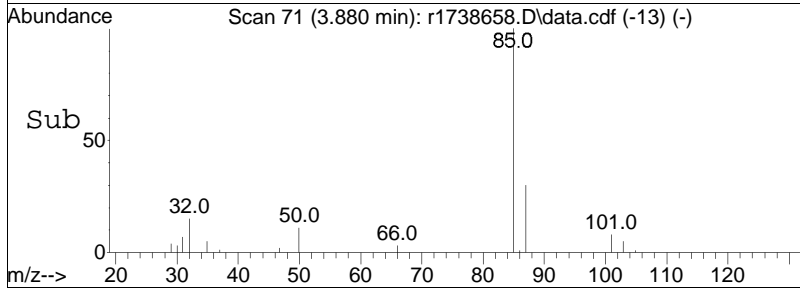
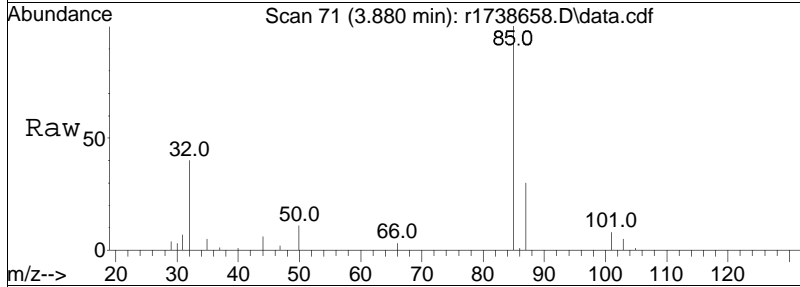
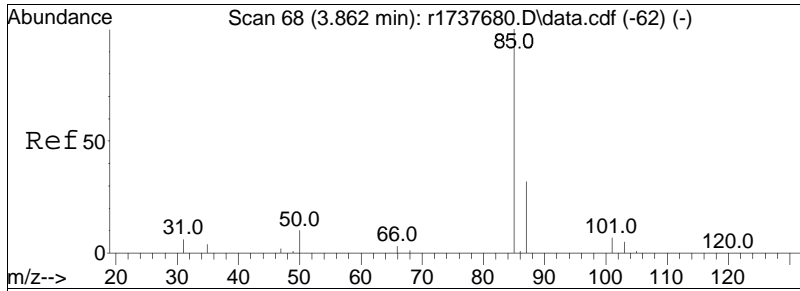
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sub List : TO15-NY-7-SIM - .\Airlab17\2024\02\0215T\r1738648.D

Data Path : O:\Forensics\Data\Airlab17\2024\02\0215T\
Data File : r1738658.D
Acq On : 15 Feb 2024 11:36 PM
Operator : AIRLAB17:JMB
Sample : WG1885731-5,3,250,250
Misc : WG1885731,ICAL20743
ALS Vial : 0 Sample Multiplier: 1

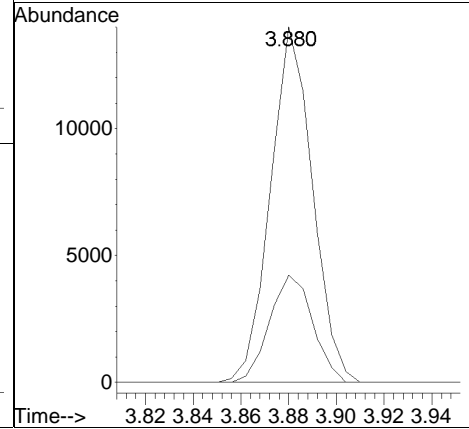
Quant Time: Feb 16 08:06:06 2024
Quant Method : O:\Forensics\Data\Airlab17\2024\02\0215T\TFS17_240107.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Mon Jan 08 15:04:31 2024
Response via : Initial Calibration

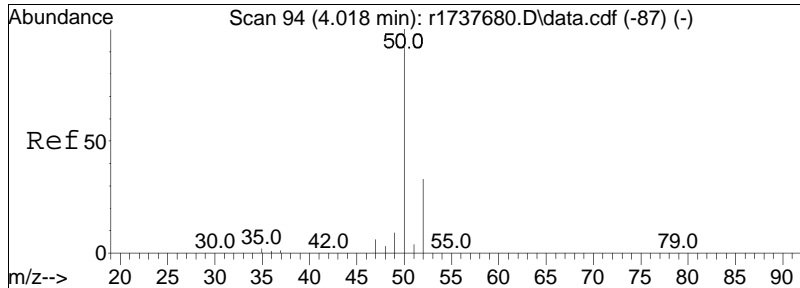




#5
dichlorodifluoromethane
Concen: 0.52 ppbV
RT: 3.880 min Scan# 71
Delta R.T. 0.018 min
Lab File: r1738658.D
Acq: 15 Feb 2024 11:36 PM

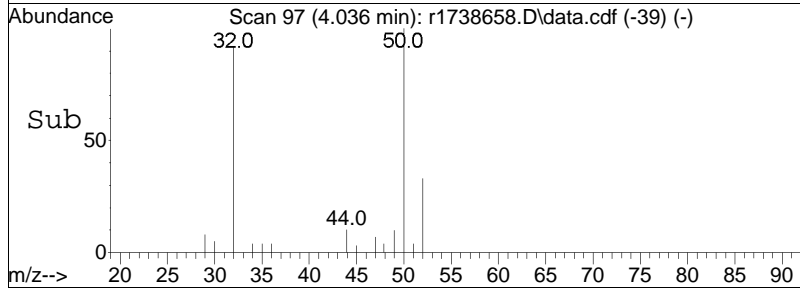
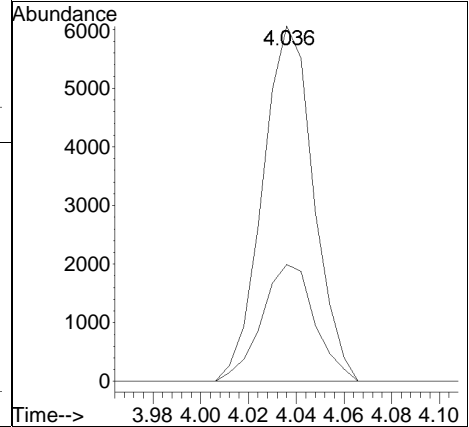
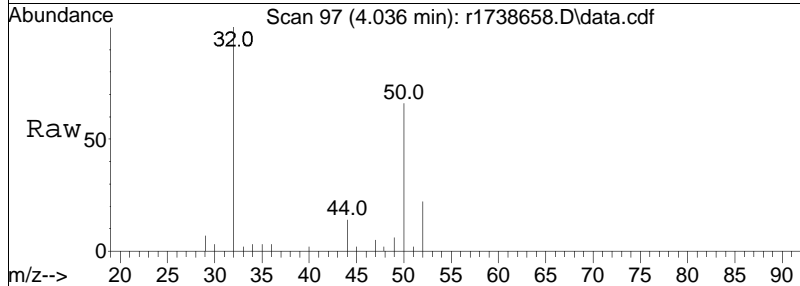
Tgt Ion:	85	Resp:	17130
Ion Ratio	Lower	Upper	
85	100		
87	30.1	25.4	38.0

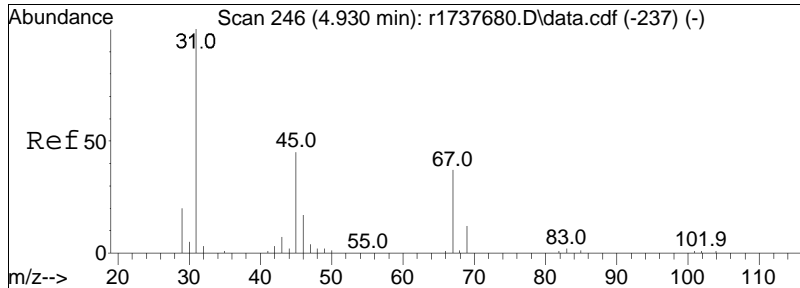




#6
 chloromethane
 Concen: 0.51 ppbV
 RT: 4.036 min Scan# 97
 Delta R.T. 0.018 min
 Lab File: r1738658.D
 Acq: 15 Feb 2024 11:36 PM

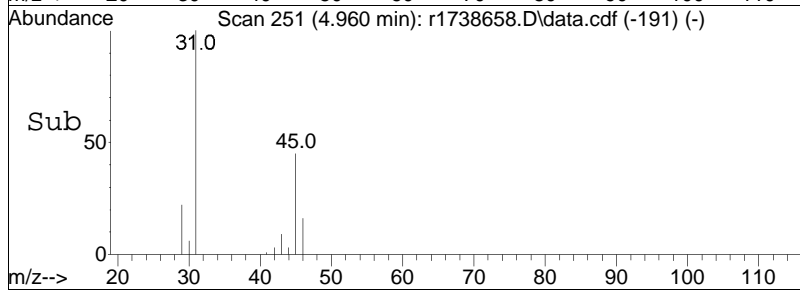
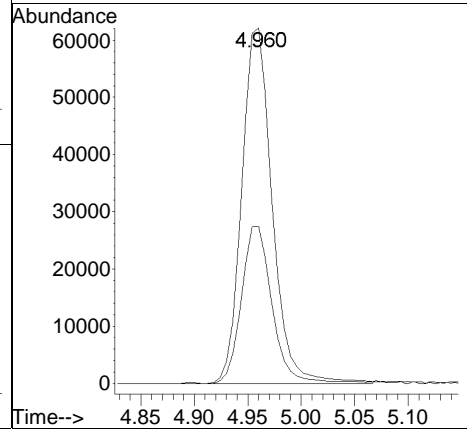
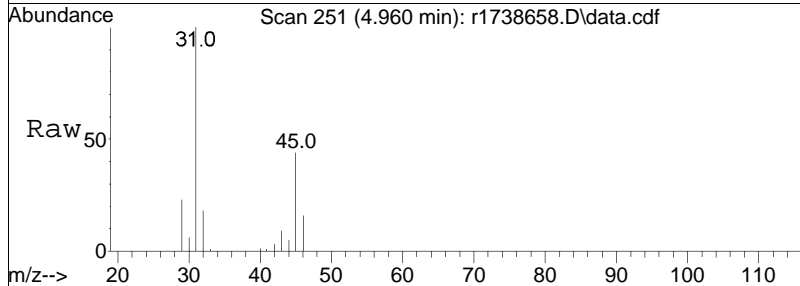
Tgt Ion	Resp	Lower	Upper
50	100		
52	32.9	26.4	39.6

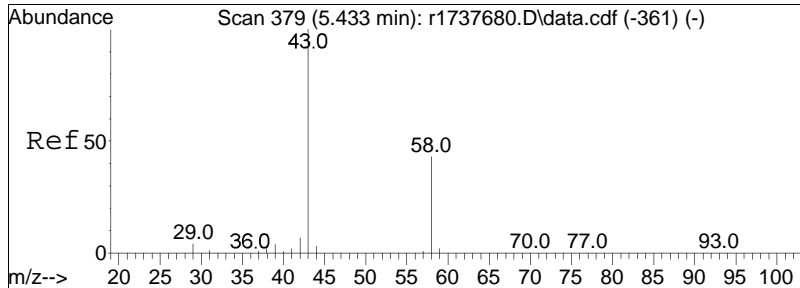




#15
 ethanol
 Concen: 8.20 ppbV
 RT: 4.960 min Scan# 251
 Delta R.T. 0.030 min
 Lab File: r1738658.D
 Acq: 15 Feb 2024 11:36 PM

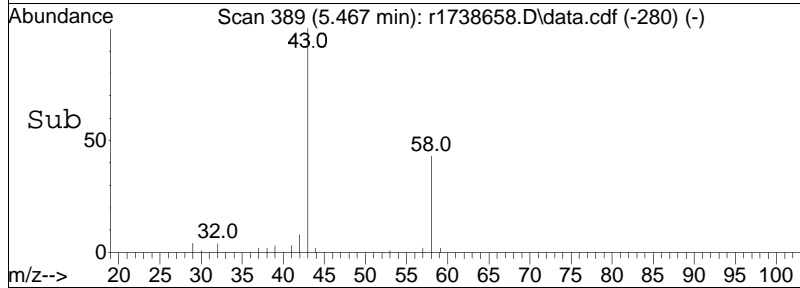
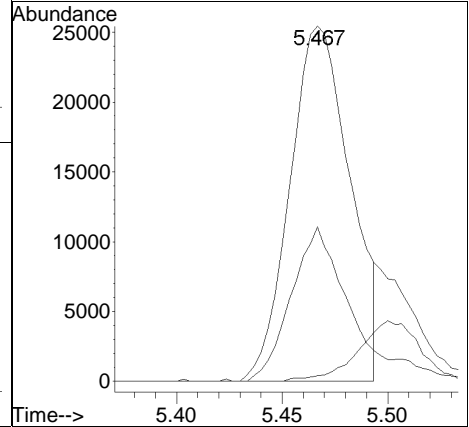
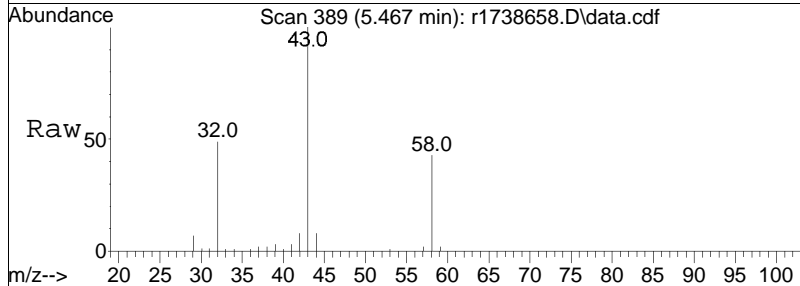
Tgt Ion:	31	Resp:	122009
Ion Ratio	Lower	Upper	
31	100		
45	44.3	36.3	54.5

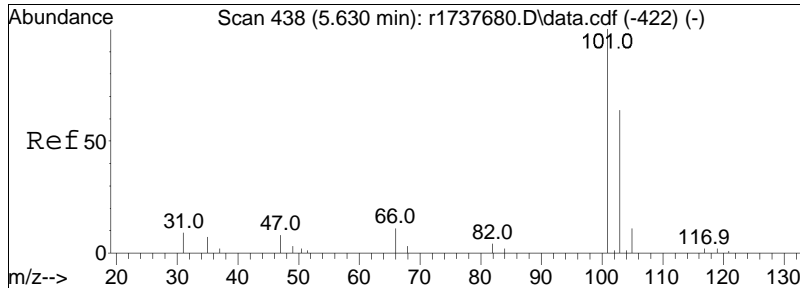




#19
 acetone
 Concen: 2.40 ppbV m
 RT: 5.467 min Scan# 389
 Delta R.T. 0.033 min
 Lab File: r1738658.D
 Acq: 15 Feb 2024 11:36 PM

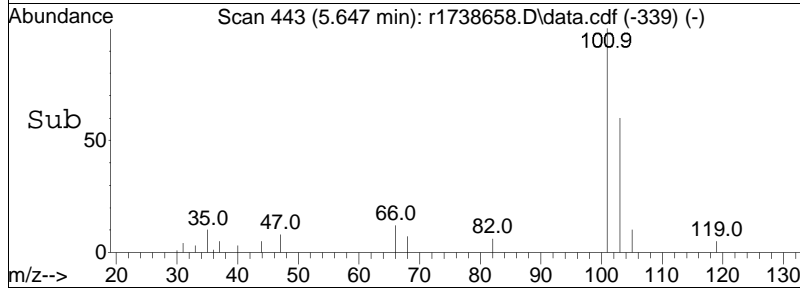
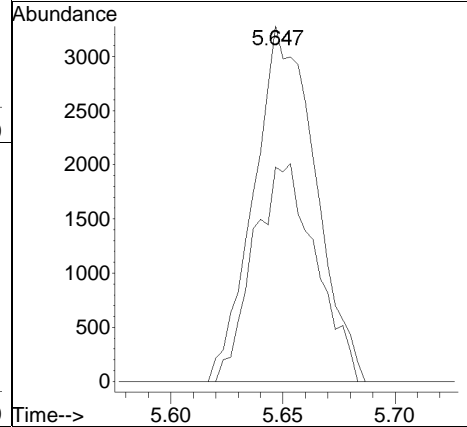
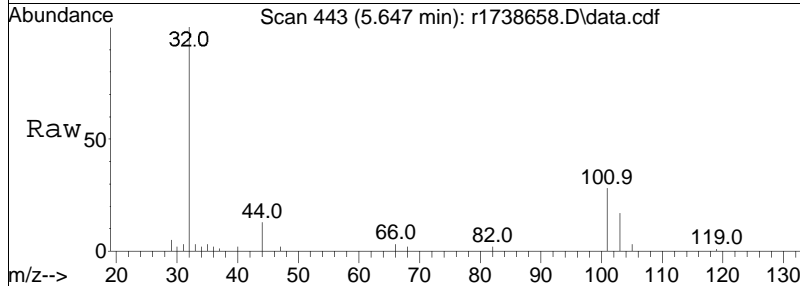
Tgt Ion	Resp	Lower	Upper
43	50715		
58	43.5	34.0	51.0
57	1.6	0.9	1.3#

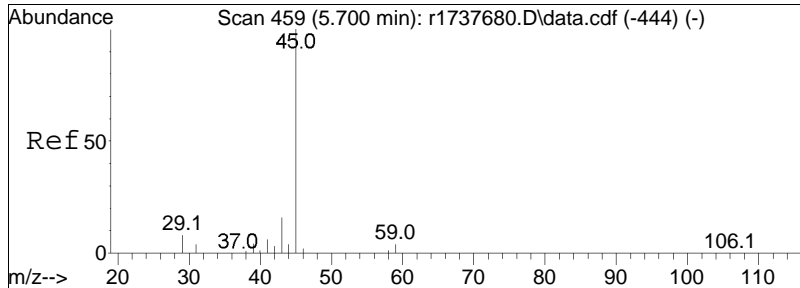




#21
 trichlorofluoromethane
 Concen: 0.24 ppbV
 RT: 5.647 min Scan# 443
 Delta R.T. 0.017 min
 Lab File: r1738658.D
 Acq: 15 Feb 2024 11:36 PM

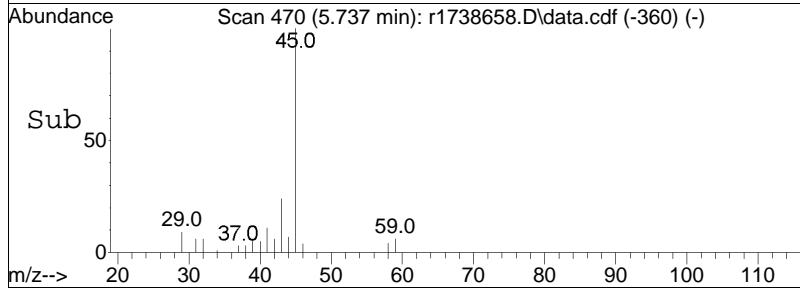
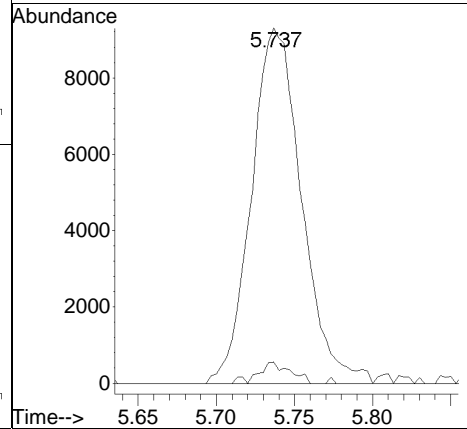
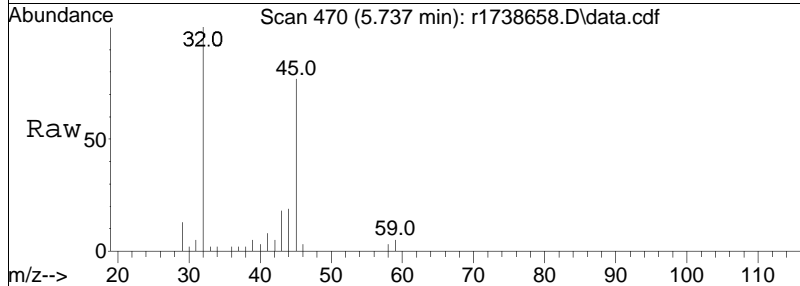
Tgt Ion: 101 Resp: 6249
 Ion Ratio Lower Upper
 101 100
 103 60.3 51.2 76.8

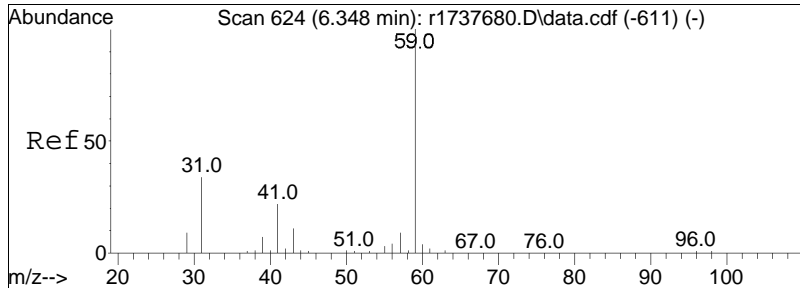




#22
 isopropyl alcohol
 Concen: 0.75 ppbV
 RT: 5.737 min Scan# 470
 Delta R.T. 0.037 min
 Lab File: r1738658.D
 Acq: 15 Feb 2024 11:36 PM

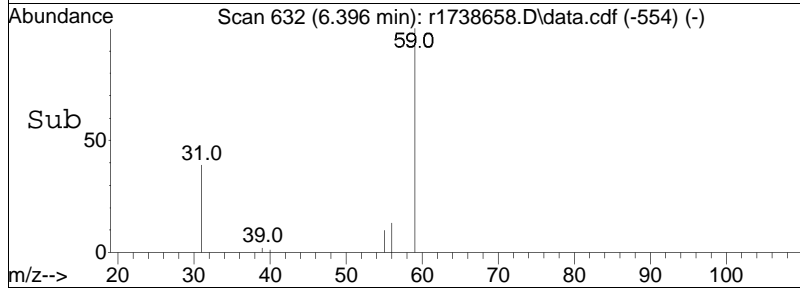
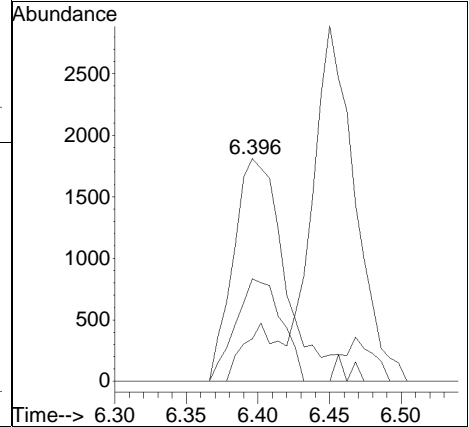
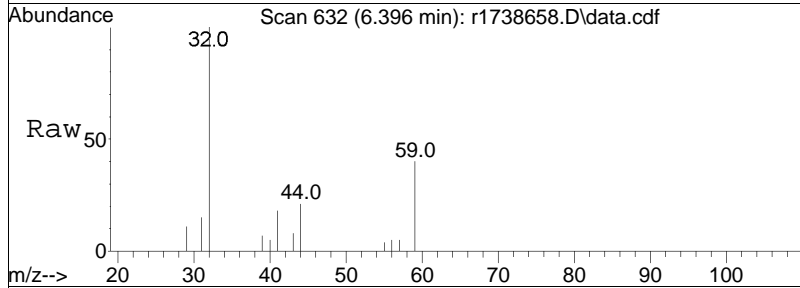
Tgt Ion:	45	Resp:	20769
Ion Ratio	100	Lower	Upper
	59	6.0	3.4 5.2#

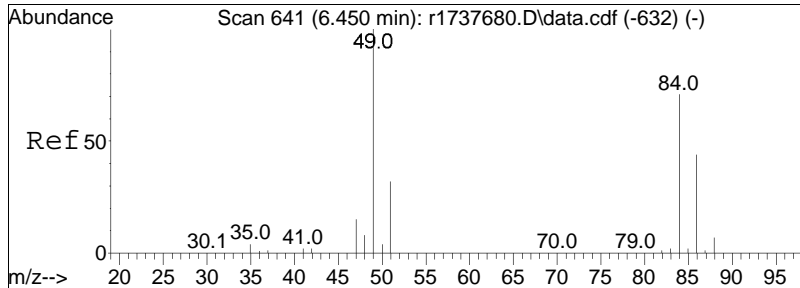




#27
 tertiary butyl alcohol
 Concen: 0.14 ppbV
 RT: 6.396 min Scan# 632
 Delta R.T. 0.048 min
 Lab File: r1738658.D
 Acq: 15 Feb 2024 11:36 PM

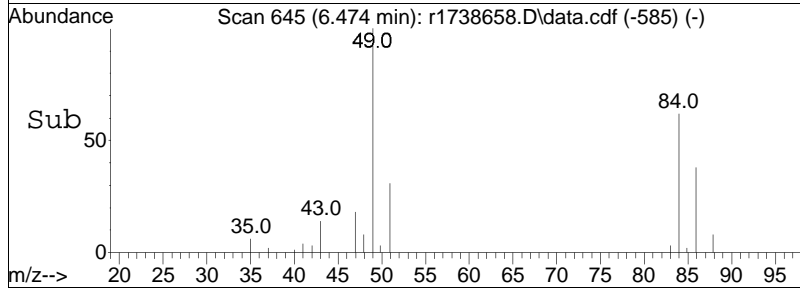
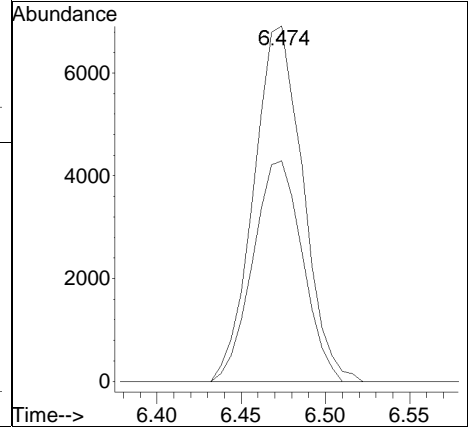
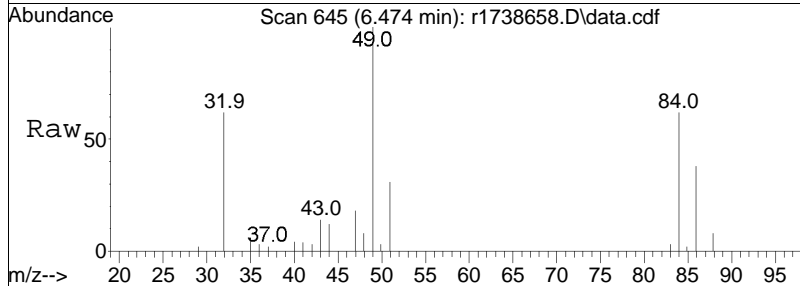
Tgt Ion	Resp	Lower	Upper
59	100		
41	46.1	17.5	26.3#
43	19.1	8.7	13.1#

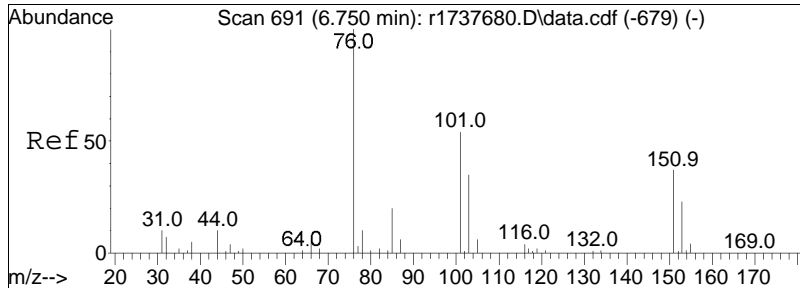




#28
 methylene chloride
 Concen: 0.60 ppbV
 RT: 6.474 min Scan# 645
 Delta R.T. 0.024 min
 Lab File: r1738658.D
 Acq: 15 Feb 2024 11:36 PM

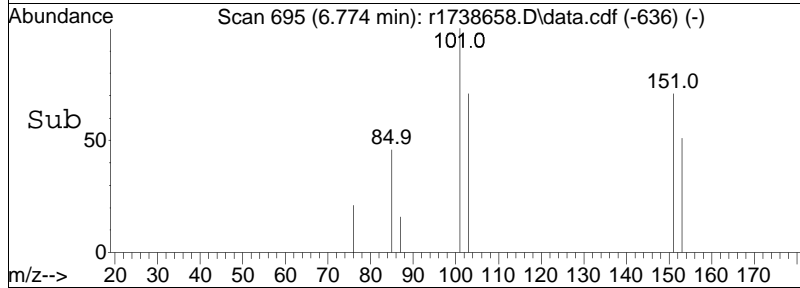
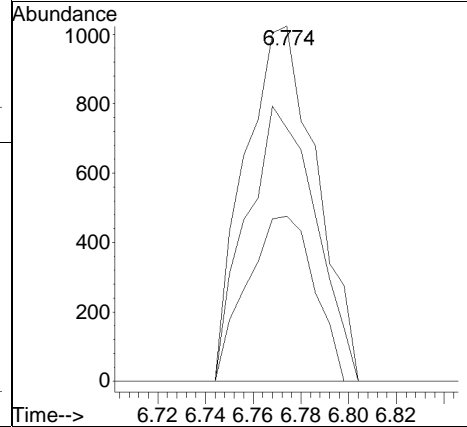
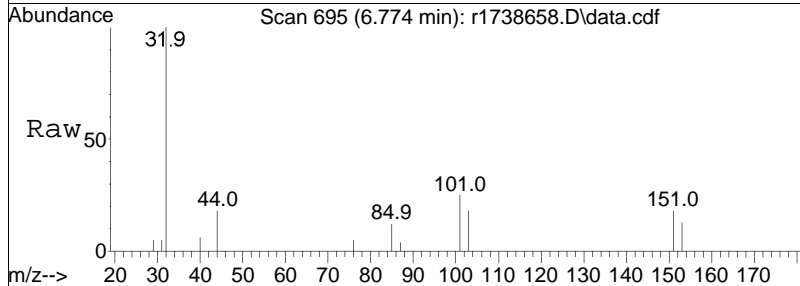
Tgt Ion:	49	84	Resp:	14049
Ion Ratio	100	62.1	Lower	Upper
			56.7	85.1

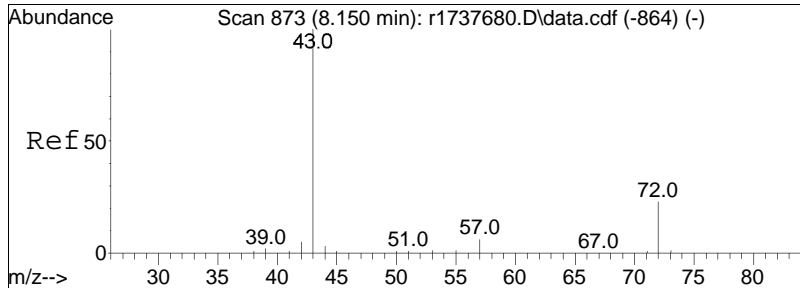




#31
 Freon 113
 Concen: 0.06 ppbV
 RT: 6.774 min Scan# 695
 Delta R.T. 0.024 min
 Lab File: r1738658.D
 Acq: 15 Feb 2024 11:36 PM

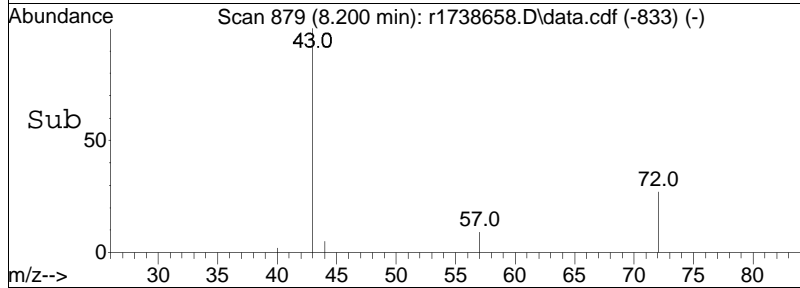
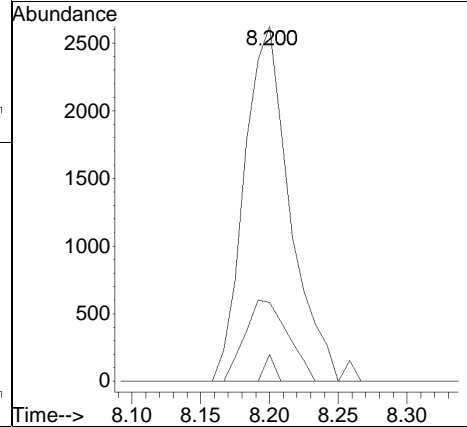
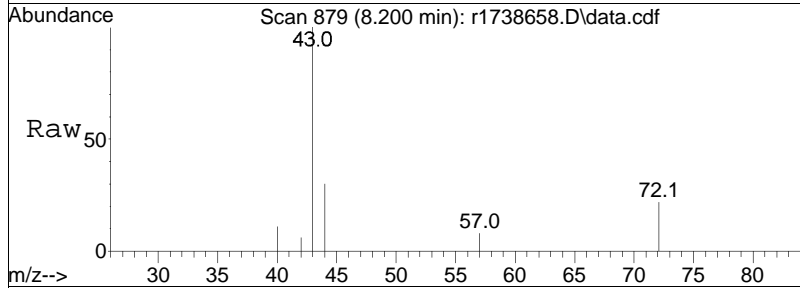
Tgt Ion	Ratio	Lower	Upper
101	100		
85	46.5	30.5	45.7#
151	71.3	56.0	84.0

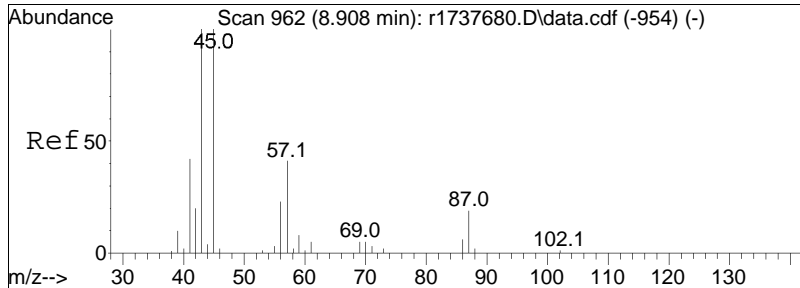




#36
 2-butanone
 Concen: 0.14 ppbV
 RT: 8.200 min Scan# 879
 Delta R.T. 0.050 min
 Lab File: r1738658.D
 Acq: 15 Feb 2024 11:36 PM

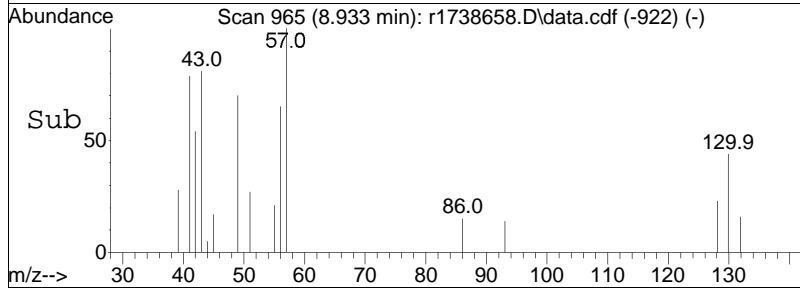
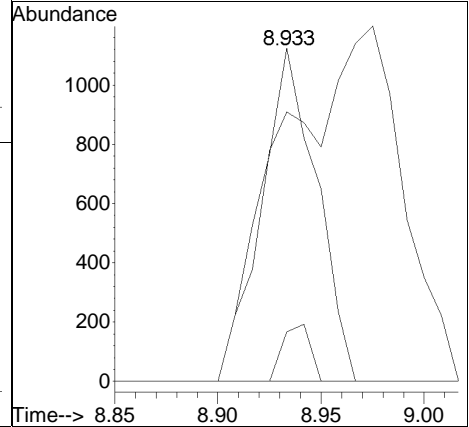
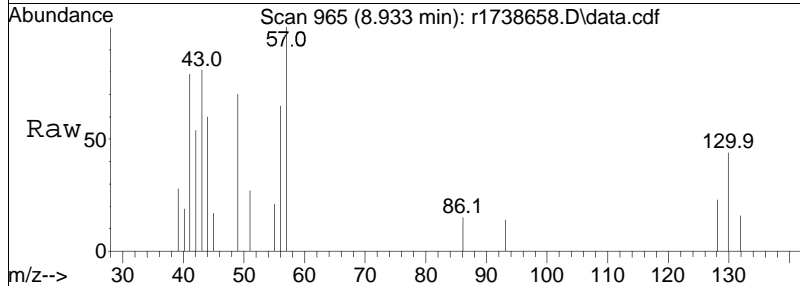
Tgt Ion	Ratio	Lower	Upper
43	100		
72	22.2	18.3	27.5
57	7.6	5.0	7.6#

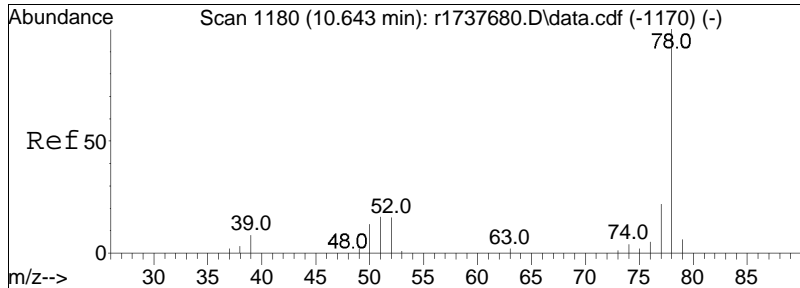




#44
 hexane
 Concen: 0.07 ppbV
 RT: 8.933 min Scan# 965
 Delta R.T. 0.025 min
 Lab File: r1738658.D
 Acq: 15 Feb 2024 11:36 PM

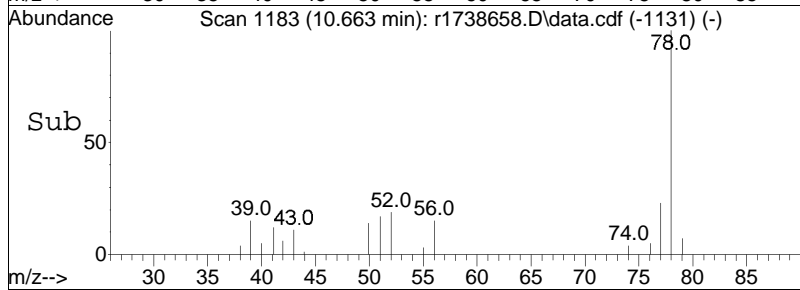
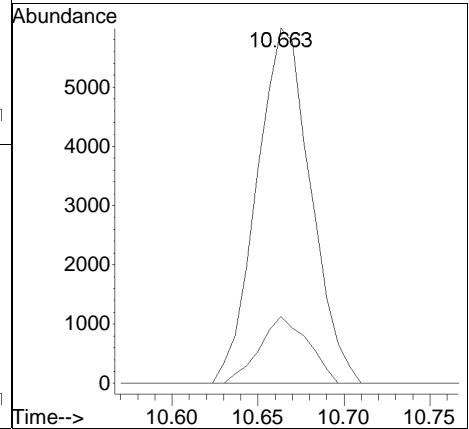
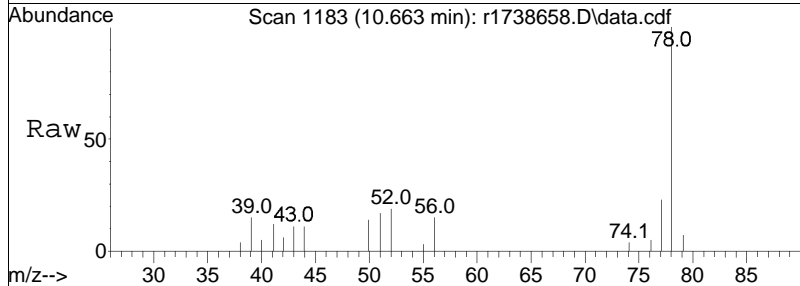
Tgt Ion:	Resp:		
Ion	Ratio	Lower	Upper
57	100		
43	80.9	197.0	295.6#
86	14.9	12.6	19.0

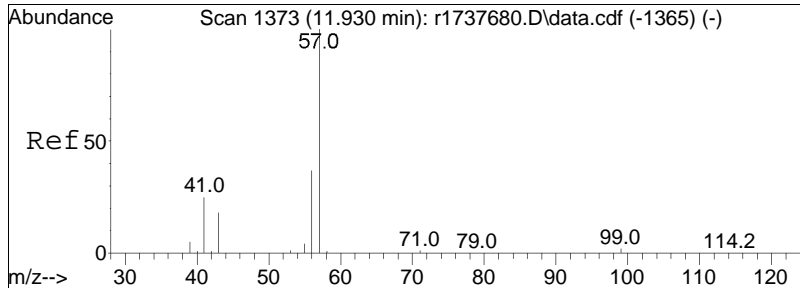




#50
benzene
Concen: 0.20 ppbV
RT: 10.663 min Scan# 1183
Delta R.T. 0.020 min
Lab File: r1738658.D
Acq: 15 Feb 2024 11:36 PM

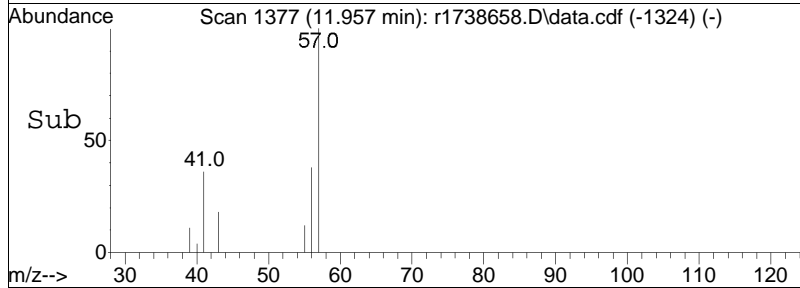
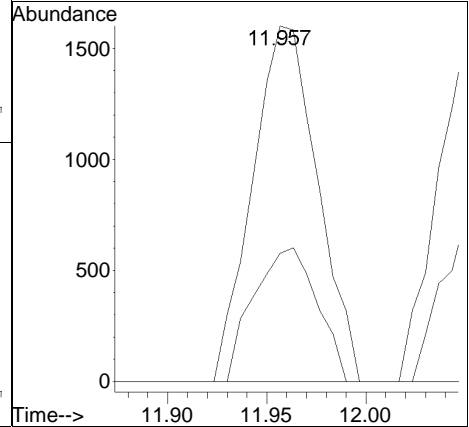
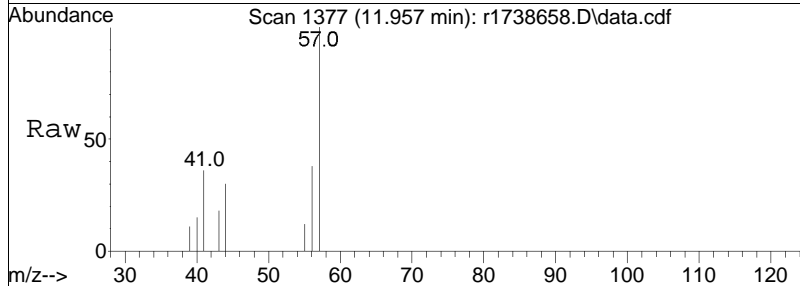
Tgt Ion	Resp	Lower	Upper
78	13091		
52	18.8	12.7	19.1

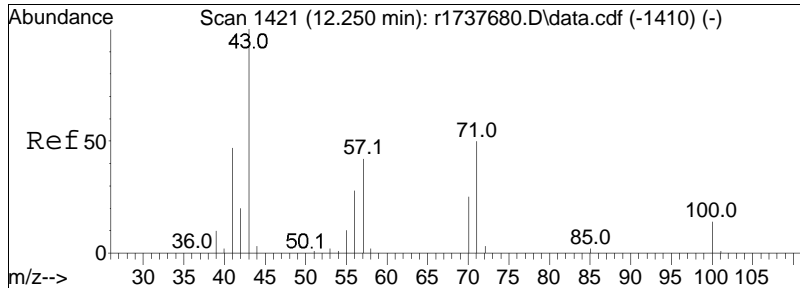




#60
 2,2,4-trimethylpentane
 Concen: 0.04 ppbV
 RT: 11.957 min Scan# 1377
 Delta R.T. 0.027 min
 Lab File: r1738658.D
 Acq: 15 Feb 2024 11:36 PM

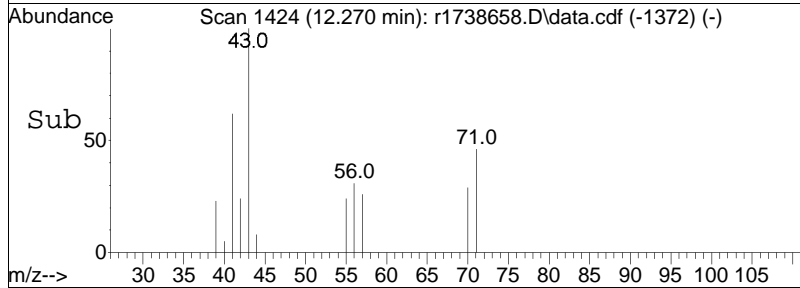
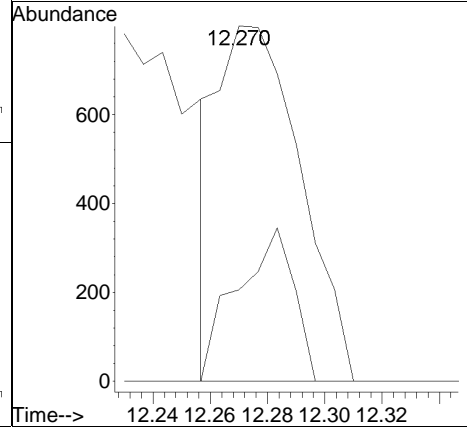
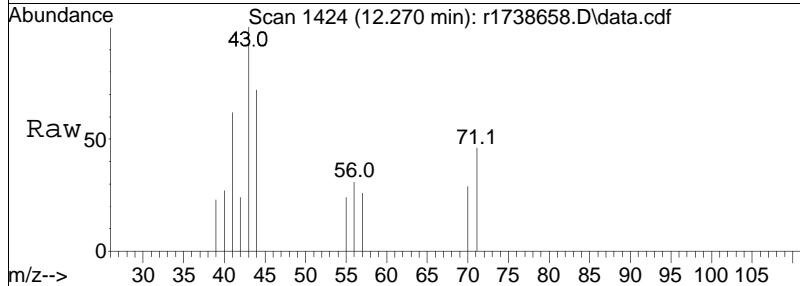
Tgt Ion	Resp	Lower	Upper
57	100		
99	0.0	4.0	6.0#
41	36.0	19.8	29.6#

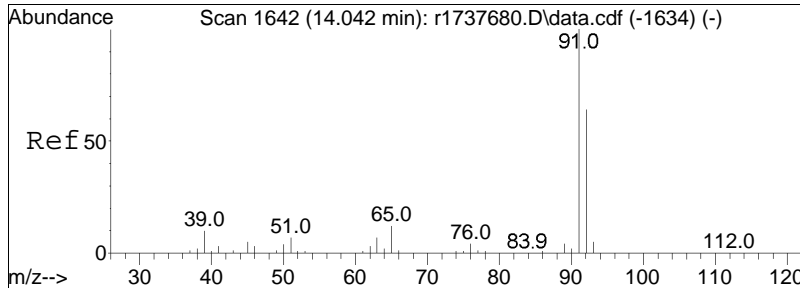




#62
 heptane
 Concen: 0.04 ppbV
 RT: 12.270 min Scan# 1424
 Delta R.T. 0.020 min
 Lab File: r1738658.D
 Acq: 15 Feb 2024 11:36 PM

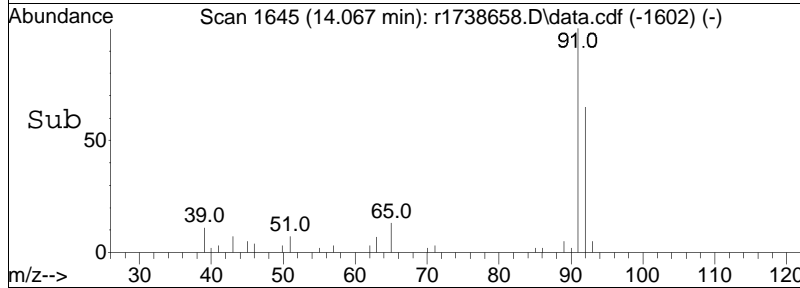
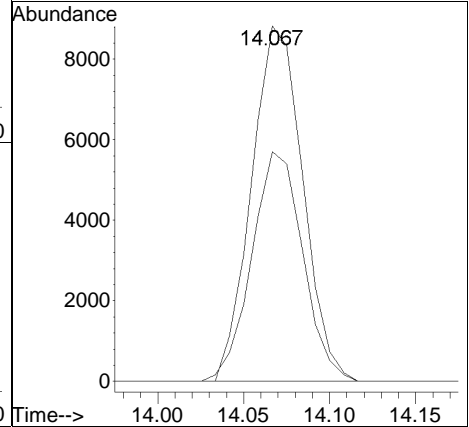
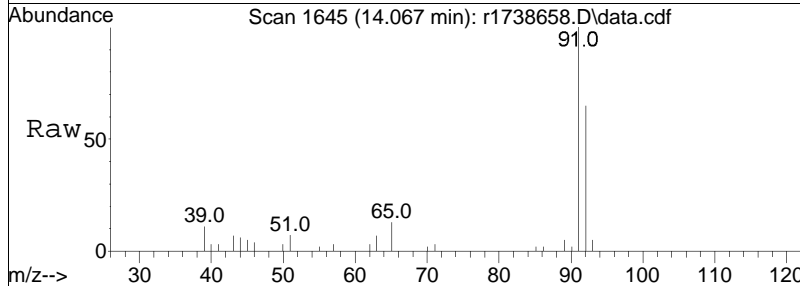
Tgt Ion	Resp	Lower	Upper
43	1597		
57	25.8	33.5	50.3#
100	0.0	11.3	16.9#

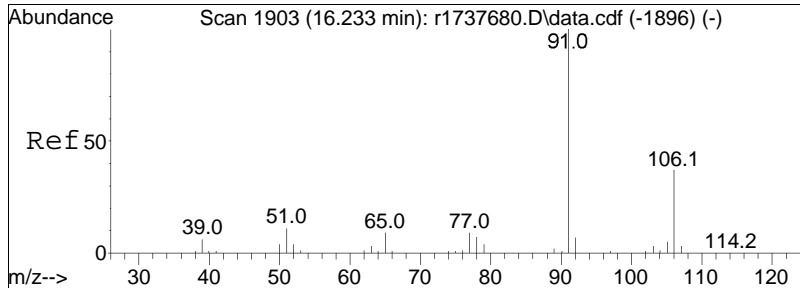




#68
 toluene
 Concen: 0.26 ppbV
 RT: 14.067 min Scan# 1645
 Delta R.T. 0.025 min
 Lab File: r1738658.D
 Acq: 15 Feb 2024 11:36 PM

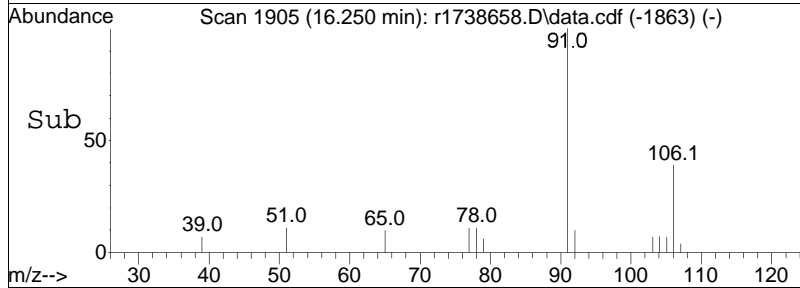
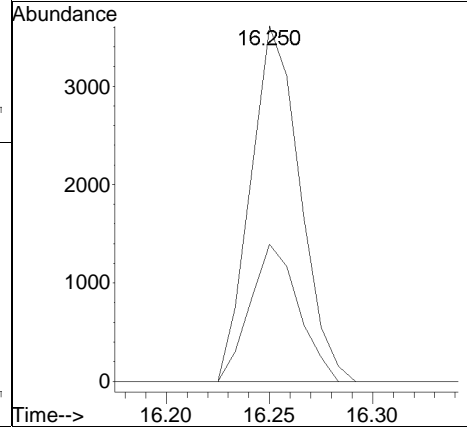
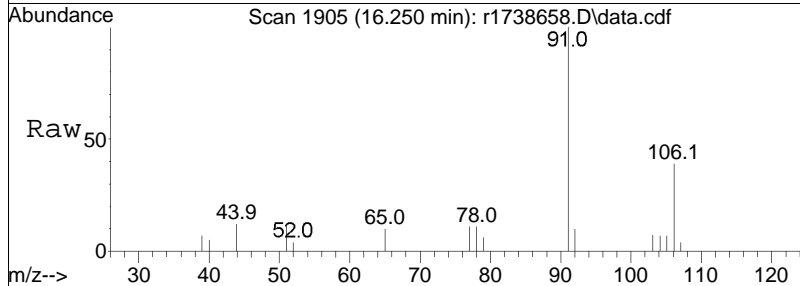
Tgt Ion:	91	92	Resp:	18330
Ion Ratio	100	64.6	Lower	Upper
			51.2	76.8

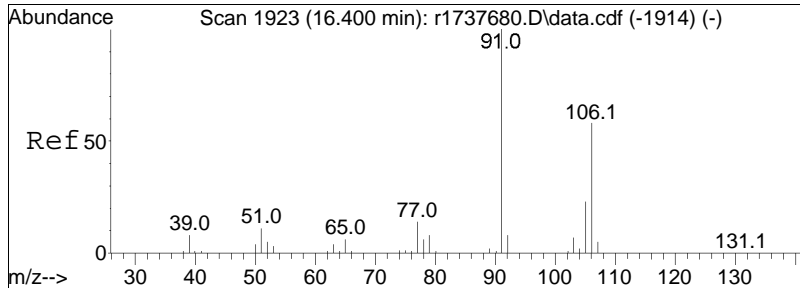




#81
 ethylbenzene
 Concen: 0.07 ppbV
 RT: 16.250 min Scan# 1905
 Delta R.T. 0.017 min
 Lab File: r1738658.D
 Acq: 15 Feb 2024 11:36 PM

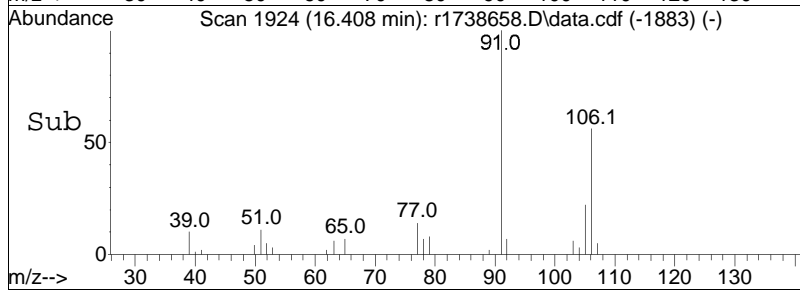
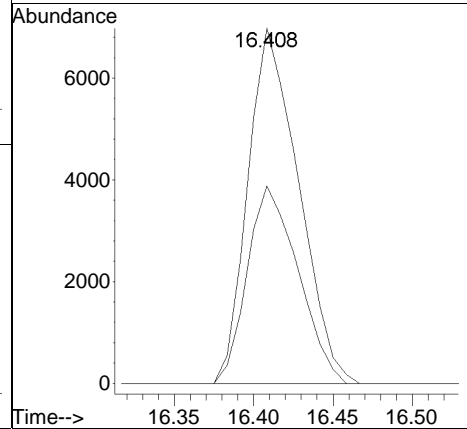
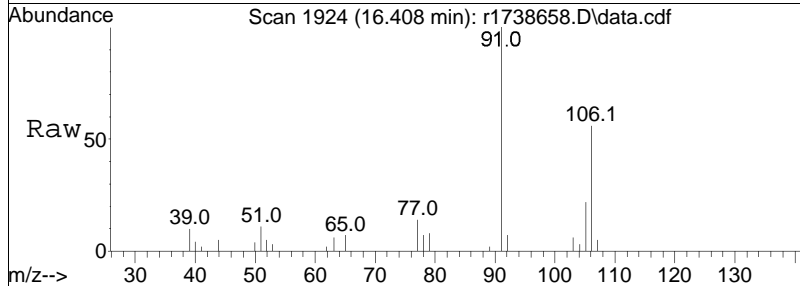
Tgt Ion: 91 Resp: 6005
 Ion Ratio Lower Upper
 91 100
 106 38.6 29.4 44.0

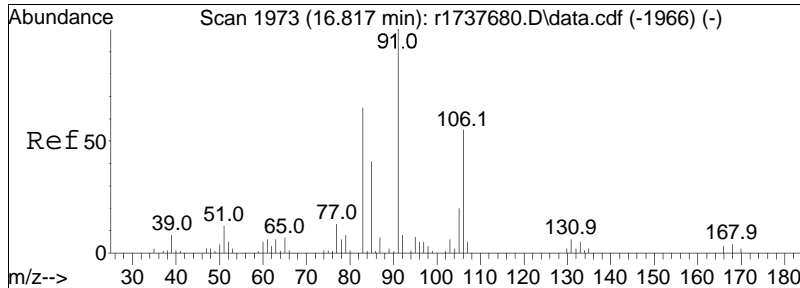




#83
 m+p-xylene
 Concen: 0.22 ppbV
 RT: 16.408 min Scan# 1924
 Delta R.T. 0.008 min
 Lab File: r1738658.D
 Acq: 15 Feb 2024 11:36 PM

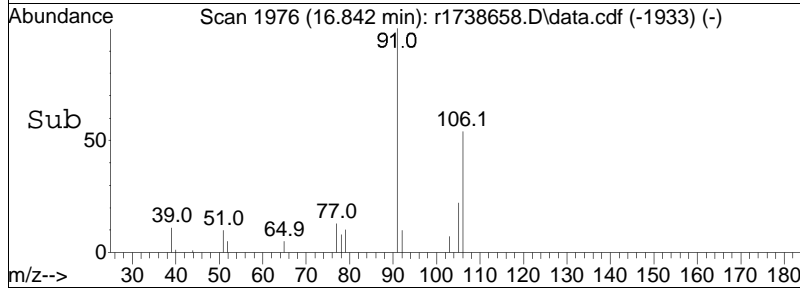
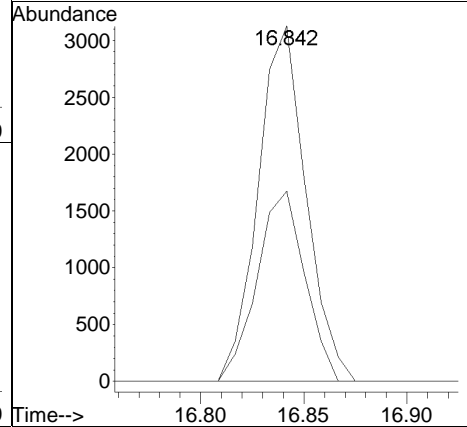
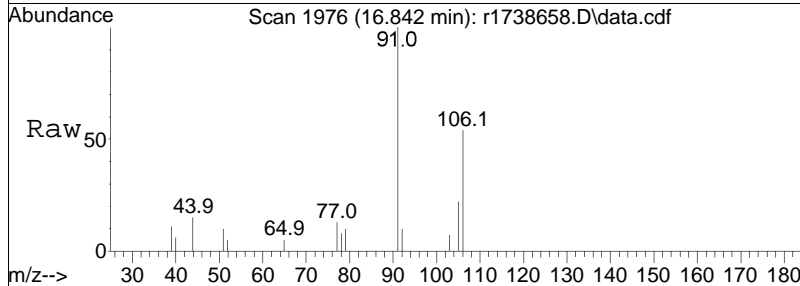
Tgt Ion: 91 Resp: 15484
 Ion Ratio Lower Upper
 91 100
 106 55.6 46.1 69.1

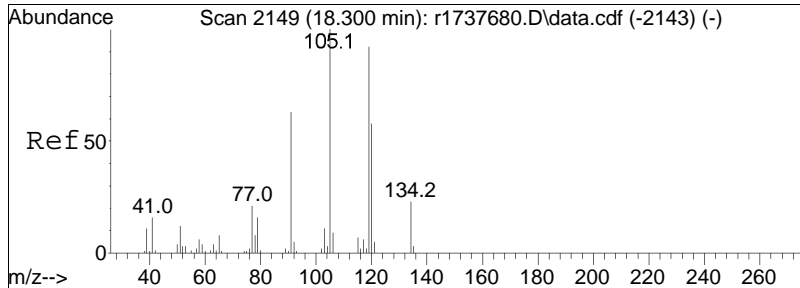




#87
 o-xylene
 Concen: 0.07 ppbV
 RT: 16.842 min Scan# 1976
 Delta R.T. 0.025 min
 Lab File: r1738658.D
 Acq: 15 Feb 2024 11:36 PM

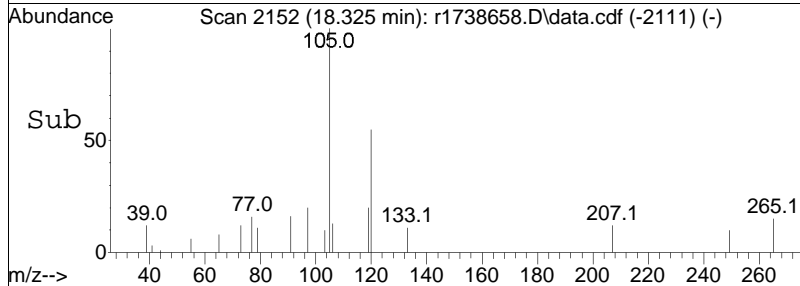
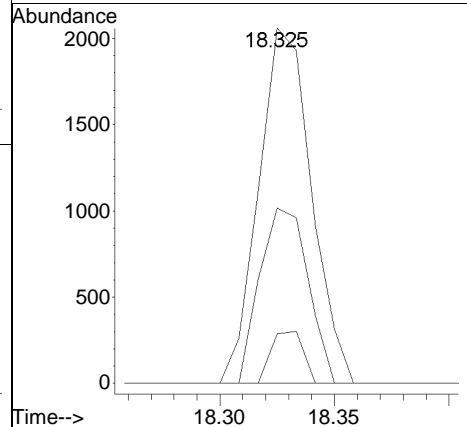
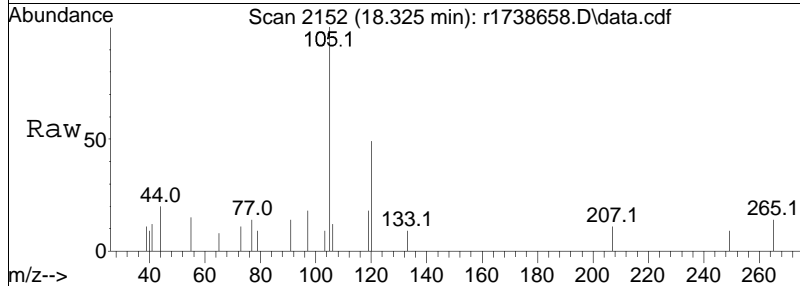
Tgt Ion: 91 Resp: 5060
 Ion Ratio Lower Upper
 91 100
 106 53.5 44.2 66.4





#99
 1,2,4-trimethylbenzene
 Concen: 0.04 ppbV
 RT: 18.325 min Scan# 2152
 Delta R.T. 0.025 min
 Lab File: r1738658.D
 Acq: 15 Feb 2024 11:36 PM

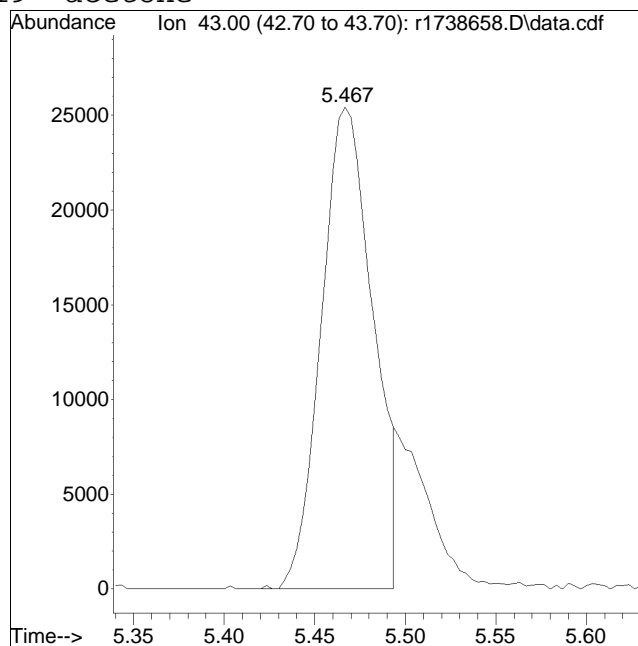
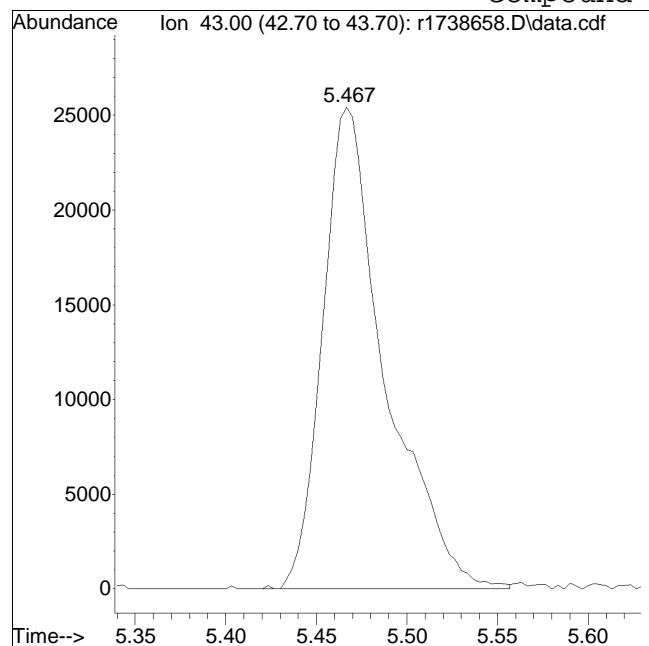
Tgt Ion	Ratio	Lower	Upper
105	100		
120	49.4	46.0	69.0
91	13.9	50.6	76.0#



Manual Integration Report

Data Path : O:\Forensics\Data\Airlab17QMethod : TFS17_240107.M
Data File : r1738658.D Operator : AIRLAB17:JMB
Date Inj'd : 2/15/2020 0:1: 6 Instrument :
Sample : WG1885731-5,3,250,250 Quant Date : 2/16/2024 8:06 am

Compound #19: acetone



Original Peak Response = 61240

Manual Peak Response = 50715 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Calculation of Volatile Organic Compounds in Air

The instrument will calculate the concentration (ppbv). If the sample is diluted (DF), the result is multiplied by the DF to generate the final result.

$$\text{Result, ppbv} = C_s \times \text{DF}$$

Where:

C_s = Concentration of sample (ppbv)

DF = Dilution Factor

Calculation of Instrument Dilution Factor

For dilutions, smaller sample volumes (< 250mL) are analyzed. The smallest volume that can be analyzed with accuracy is 10 mL.

Samples that arrive at the laboratory with pressures below -15 inches Hg must be pressurized with zero air to greater than -15 inches Hg. This pressurization results in a dilution factor.

Calculation of Dilution Factor

$$\text{DF} = V_{cf} / V_{ci}$$

Where:

V_{ci} = volume of air in canister prior to pressurization, L

P =

Conversion of ppbv to $\mu\text{g}/\text{m}^3$

$$\mu\text{g}/\text{m}^3 = (\text{ppbv}) \times \text{MW} / 24.47$$

Where:

24.47 = molar gas constant (g/g-mole)

MW = molecular weight of the compound of interest

Dilution Factor for Pressurization of Subatmospheric Samples: Three Steps

Step 1: Calculate the volume in the canister prior to pressurization (Assume a 2.7 liter canister is used).

Dilution Factor for Pressurization of Subatmospheric Samples: Three Steps

Step 1: Calculate the volume in the canister prior to pressurization (Assume a 2.7 liter canister is used).

$$V_{ci} = 2.7 * PI/14.696$$

Step 2: Calculate the volume in the canister after pressurization.

$$V_{cf} = 2.7 * PF/14.696$$

Step 3: Calculate the dilution factor.

$$DF = V_{cf} / V_{ci}$$

Where:

V_{ci} = volume of air in canister prior to pressurization, L

PI = pressure reading of canister prior to pressurization (psia)

V_{cf} = volume of air in canister after pressurization, L

PF = pressure reading of canister after pressurization (psia)

DF = dilution factor

14.696 = atmospheric pressure (psia)

ALPHA ANALYTICAL LABORATORIES, INC.

Alpha WORK GROUP REPORT (wk02)

Feb 16 2024, 01:38 pm

Work Group: WG1885731 for Department: 3 GC/MS

Created: 15-FEB-24 Due: Operator: JMB

Sample	Client ID	C Product	Matrix	Stat	UA	HOLD	DUE	PR	Location
L2405586-01	VP-3	S TO15-LL	SOIL_VAPOR	DONE	U	0301	0215	S0	Can-2.7
L2407495-05	SG-1	S TO15-LL	SOIL_VAPOR	DONE	U	0310	0216	S0	Can-2.7
L2407495-06	SG-2	S TO15-LL	SOIL_VAPOR	DONE	U	0310	0216	S0	Can-2.7
L2407495-07	SG-3	S TO15-LL	SOIL_VAPOR	DONE	U	0310	0216	S0	Can-2.7
L2407495-08	SG-4	S TO15-LL	SOIL_VAPOR	DONE	U	0310	0216	S0	Can-2.7
L2407504-11	DUP-02082024	S TO15-LL	AIR	DONE	U	0309	0216	S0	Can-2.7
L2407504-12	MP-8R	S TO15-LL	SOIL_VAPOR	DONE	U	0309	0216	S0	Can-2.7
L2407504-13	MP-8R-IA	S TO15-LL	AIR	DONE	U	0309	0216	S0	Can-2.7
L2407531-01	SVP-01	S TO15-LL	SOIL_VAPOR	DONE	U	0309	0216	3E	Can-2.7
L2407531-02	SVP-02	S TO15-LL	SOIL_VAPOR	DONE	U	0309	0216	3E	Can-2.7
L2407645-01	TRC-IA-01	S TO15-LL	AIR	DONE	U	0310	0216	S0	Can-6
L2407645-02	TRC-IA-02	S TO15-LL	AIR	DONE	U	0310	0216	S0	Can-6
L2407645-03	TRC-IA-03	S TO15-LL	AIR	DONE	U	0310	0216	S0	Can-6
L2407645-04	TRC-AA-01	S TO15-LL	AIR	DONE	U	0310	0216	S0	Can-6
WG1885731-1	MS BFB Tune Standard	S TO15-LL	AIR	DONE	U				
WG1885731-1	MS BFB Tune Standard	S TO15-LL	SOIL_VAPOR	DONE	U				
WG1885731-2	Continuing Calibrati	S TO15-LL	AIR	DONE	U				
WG1885731-2	Continuing Calibrati	S TO15-LL	SOIL_VAPOR	DONE	U				
WG1885731-3	Laboratory Control S	S TO15-LL	AIR	DONE	U				
WG1885731-3	Laboratory Control S	S TO15-LL	SOIL_VAPOR	DONE	U				
WG1885731-4	Laboratory Method Bl	S TO15-LL	AIR	DONE	U				
WG1885731-4	Laboratory Method Bl	S TO15-LL	SOIL_VAPOR	DONE	U				
WG1885731-5	Duplicate Sample	S TO15-LL	AIR	DONE	U				
WG1885731-5	Duplicate Sample	S TO15-LL	SOIL_VAPOR	DONE	U				
Comments:									
WG1885731-5	L2407645-03								

Alpha Analytical Air Lab Instrument Run Log

Instrument ID: Airlab 17

Internal Standard/Surrogate IDs: SS22-(

Date: 01/07/24

Internal Standard/Surrogate Volume: _____

Analyst Initials: BJB

Sequence File Name: _____

AS Position #	Sample ID	Acquisition Method	Data File ID	Standard ID or Batch ID #, ICAL Ref #	Comment (s)
1	BA17110401	C:\GCMSsolution\Meth ods\TO15_SFS.qgm	R1737670.qgd	250 mL	BLANK
1	BA17110401	C:\GCMSsolution\Meth ods\TO15_SFS.qgm	R1737671.qgd	250 mL	BLANK
1	TA17110401	C:\GCMSsolution\Meth ods\TO15_SFS.qgm	R1737672.qgd	250 mL	TUNE
9	ITO15-SIMSTD0.02	C:\GCMSsolution\Meth ods\TO15_SFS.qgm	R1737673.qgd	50 mL SS23-019D	SIM ONLY
9	ITO15-SIMSTD0.05	C:\GCMSsolution\Meth ods\TO15_SFS.qgm	R1737674.qgd	125 mL SS23-019D	SIM ONLY
9	ITO15-SIMSTD0.1	C:\GCMSsolution\Meth ods\TO15_SFS.qgm	R1737675.qgd	250 mL SS23-019D	SIM ONLY
10	ITO15-SIMSTD0.2	C:\GCMSsolution\Meth ods\TO15_SFS.qgm	R1737676.qgd	50 mL SS23-019C	
10	ITO15-SIMSTD0.5	C:\GCMSsolution\Meth ods\TO15_SFS.qgm	R1737677.qgd	125 mL SS23-019C	
10	ITO15-SIMSTD1.0	C:\GCMSsolution\Meth ods\TO15_SFS.qgm	R1737678.qgd	250 mL SS23-019C	
11	ITO15-SIMSTD5.0	C:\GCMSsolution\Meth ods\TO15_SFS.qgm	R1737679.qgd	125 mL SS23-019B	
11	ITO15-SIMSTD10.0	C:\GCMSsolution\Meth ods\TO15_SFS.qgm	R1737680.qgd	250 mL SS23-019B	
12	ITO15-SIMSTD20	C:\GCMSsolution\Meth ods\TO15_SFS.qgm	R1737681.qgd	50 mL SS23-019A	
12	ITO15-SIMSTD50	C:\GCMSsolution\Meth ods\TO15_SFS.qgm	R1737682.qgd	125 mL SS23-019A	
12	ITO15-LLSTD100	C:\GCMSsolution\Meth ods\TO15_SFS.qgm	R1737683.qgd	250 mL SS23-019A	LL ONLY
1	BA17110401	C:\GCMSsolution\Meth ods\TO15_SFS.qgm	R1737684.qgd	250 mL	
1	BA17110402	C:\GCMSsolution\Meth ods\TO15_SFS.qgm	R1737685.qgd	250 mL	

Alpha Analytical Air Lab Instrument Run Log

028/ SS21-026

100 ml

240107.S

Product/ Sublist	Check Pass ?
	NA
	NA
DEFAULT	NA
DEFAULT	NA
DEFAULT	NA
DEFAULT	NA
DEFAULT	NA
DEFAULT	NA
DEFAULT	NA
DEFAULT	NA
DEFAULT	NA
DEFAULT	NA
DEFAULT	NA
DEFAULT	NA
DEFAULT	NA
	NA
USE AS TUNE FOR 1/8 SEQ	NA

Alpha Analytical Air Lab Instrument Run Log

2	CTO15-LLSTD10.0	C:\GCMSsolution\Meth ods\TO15_SFS.qgm	R1737686.qgd	250 mL SS23-017C	LL ICV
2	CTO15-SIMSTD5.0	C:\GCMSsolution\Meth ods\TO15_SFS.qgm	R1737687.qgd	125 mL SS23-017C	SIM ICV

Column ID: Rtx-1 0.25 mm ID

Date(s) of Initial Calibration: Refer to Initial Calibration Summary Form 6

Date Acquired: see Instrument Performance Check Summary and/or quantitation report.

Sample ID information: L1301234-01,3,250,250 { Lab sample ID, dept #, actual volume analyzed (mL), nominal volume analyzed

Dilution Factor: See Form 1 report, or divide nominal volume by actual volume analyzed

Alpha Analytical Air Lab Instrument Run Log

DEF ICV AP2	NA
DEF ICV AP2	NA

Alpha Analytical Air Lab Instrument Run Log

Instrument ID: Airlab 17
 Date: 02/15/24
 Analyst Initials: JMB

Internal Standard/Surrogate IDs: SS22-028/ SS21-026
 Internal Standard/Surrogate Volume: 100 ml
 Sequence File Name: 240215.S

AS Position #	Sample ID	Acquisition Method	Data File ID	Standard ID or Batch ID #, ICAL Ref #	Comment (s)	Product/ Sublist
1	TA17021501	TO15_SFS.qgm	R1738647.qgd	250 mL	TUNE	
2	CA17021501	TO15_SFS.qgm	R1738648.qgd	250 mL	LL CC	
3	CTO15-LLSTD10.0	TO15_SFS.qgm	R1738649.qgd	250 mL SS23-017D	LL LCS	REPORT HITS OF CT,BDCM,BDCE BY SIM
3	CTO15-SIMSTD5.0	TO15_SFS.qgm	R1738650.qgd	125 mL SS23-017D	SIM LCS	BF HIGH
1	BA17021501	TO15_SFS.qgm	R1738651.qgd	250 mL	LL BLANK	
1	BA17021502	TO15_SFS.qgm	R1738652.qgd	250 mL	SIM BLANK	
2	L2407645-04,3,250,250	TO15_SFS.qgm	R1738653.qgd	WG1885731,ICAL20743		NY-7SIM
3	L2407645-01,3,250,250	TO15_SFS.qgm	R1738654.qgd	WG1885731,ICAL20743		NY-7SIM
4	L2407645-02,3,250,250	TO15_SFS.qgm	R1738655.qgd	WG1885731,ICAL20743		NY-7SIM
5	L2407504-13,3,250,250	TO15_SFS.qgm	R1738656.qgd	WG1885731,ICAL20743		NY-7SIM
6	L2407645-03,3,250,250	TO15_SFS.qgm	R1738657.qgd	WG1885731,ICAL20743		NY-7SIM
6	L2407645-03DUP,3,250,250	TO15_SFS.qgm	R1738658.qgd	WG1885731,ICAL20743	LL/SIM DUP	NY-7SIM
7	L2405687-02,3,250,250	TO15_SFS.qgm	R1738659.qgd	WG1885733,ICAL20745		STD+NAPH BY SIM
8	L2405687-01,3,250,250	TO15_SFS.qgm	R1738660.qgd	WG1885733,ICAL20745		STD+NAPH BY SIM
9	L2407504-11,3,250,250	TO15_SFS.qgm	R1738661.qgd	WG1885731,ICAL20743		NY-7SIM
10	L2407531-02,3,250,250	TO15_SFS.qgm	R1738662.qgd	WG1885731,ICAL20743	bdcM hit report by sim	PA
11	L2407504-12,3,250,250	TO15_SFS.qgm	R1738663.qgd	WG1885731,ICAL20743		NY
12	L2407594-01,3,250,250	TO15_SFS.qgm	R1738664.qgd	WG1885733,ICAL20745		PA BY SIM

Alpha Analytical Air Lab Instrument Run Log

Check Pass ?
NA
NA
NA
NA
NA
NA
NA
Y
Y
Y
Y
Y
Y
Y
Y
Y
Y
Y
Y
Y
Y
Y
Y

Alpha Analytical Air Lab Instrument Run Log

13	L2407594-02,3,250,250	TO15_SFS.qgm	R1738665.qgd	WG1885733,ICAL20745		PA BY SIM
14	L2407594-03,3,250,250	TO15_SFS.qgm	R1738666.qgd	WG1885733,ICAL20745		PA BY SIM
15	L2407594-04,3,250,250	TO15_SFS.qgm	R1738667.qgd	WG1885733,ICAL20745		PA BY SIM
16	L2407495-05,3,250,250	TO15_SFS.qgm	R1738668.qgd	WG1885731,ICAL20743	bdcn hit report by sim	NY
1	L2407495-06,3,250,250	TO15_SFS.qgm	R1738669.qgd	WG1885731,ICAL20743		NY
2	L2407495-07D,3,6.03,250	TO15_SFS.qgm	R1738670.qgd	WG1885731,ICAL20743	Acetone 2 but THF overcal	NY
3	L2407495-08,3,250,250	TO15_SFS.qgm	R1738671.qgd	WG1885731,ICAL20743		NY
4	L2407531-01D,3,112.68,250	TO15_SFS.qgm	R1738672.qgd	WG1885731,ICAL20743		PA
5	L2405586-01D,3,2.67,250	TO15_SFS.qgm	R1738673.qgd	WG1885731,ICAL20743	T	PA_UST
2	L2407495-07D,3,0.36,250	TO15_SFS.qgm	R1738674.qgd	WG1885731,ICAL20743		Acetone 2 but THF

Column ID: Rtx-1 0.25 mm ID

Date(s) of Initial Calibration: Refer to Initial Calibration Summary Form 6

Date Acquired: see Instrument Performance Check Summary and/or quantitation report.

Sample ID information: L1301234-01,3,250,250 { Lab sample ID, dept #, actual volume analyzed (mL), nominal volume analyzed

Dilution Factor: See Form 1 report, or divide nominal volume by actual volume analyzed

Alpha Analytical Air Lab Instrument Run Log

Y
Y
Y
Y
Y
Y
Y
Y
Y
Y

GC/MS VOA
Air Analysis
Selective Ion Monitoring

Volatiles QC Summary

Lab Duplicate Sample Summary

Form 3

Air Volatiles

Client	: TRC Environmental Corp	Lab Number	: L2407645
Project Name	: K710 IAQ	Project Number	: 457205
Client Sample ID	: TRC-IA-03	Matrix (Level)	: AIR (LOW)
Lab Sample ID	: L2407645-03	Analysis Date	: 02/15/24 22:57
Lab File ID	: R1738657_EV2	DUP File ID	: r1738658_Ev2
Dup Sample ID	: WG1885733-5	DUP Analysis Date	: 02/15/24 23:36

Parameter	Sample Concentration (ppbV)	Duplicate Concentration (ppbV)	RPD	RPD Limit
Vinyl chloride	ND	ND	NC	25
1,1-Dichloroethene	ND	ND	NC	25
cis-1,2-Dichloroethene	ND	ND	NC	25
1,1,1-Trichloroethane	ND	ND	NC	25
Carbon tetrachloride	0.081	0.083	2	25
Trichloroethene	ND	ND	NC	25
Tetrachloroethene	0.037	0.042	13	25



**Method Blank Summary
Form 4
Air Volatiles**

Client	: TRC Environmental Corp	Lab Number	: L2407645
Project Name	: K710 IAQ	Project Number	: 457205
Lab Sample ID	: WG1885733-4	Lab File ID	: r1738652_Ev2
Instrument ID	: AIRLAB17		
Matrix	: AIR	Analysis Date	: 02/15/24 19:40

Client Sample No.	Lab Sample ID	Analysis Date
WG1885733-3LCS	WG1885733-3	02/15/24 16:05
TRC-AA-01	L2407645-04	02/15/24 20:20
TRC-IA-01	L2407645-01	02/15/24 20:59
TRC-IA-02	L2407645-02	02/15/24 21:39
TRC-IA-03	L2407645-03	02/15/24 22:57
TRC-IA-03DUP	WG1885733-5	02/15/24 23:36



**Instrument Performance Check (Tune) Summary
Form 5
Air Volatiles
Bromofluorobenzene (BFB)**

Client	: TRC Environmental Corp	Lab Number	: L2407645
Project Name	: K710 IAQ	Project Number	: 457205
Instrument ID	: AIRLAB17	Analysis Date	: 01/07/24 19:44
Tune Standard	: WG1872081-1	Tune File ID	: r1737672_tune

m/e	Ion Abundance Criteria	%Relative Abundance
50	8.0 - 40.0% of mass 95	16.8
75	30.0 - 66.0% of mass 95	40.4
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.7
173	Less than 2.0% of mass 174	0.4 (.6)1
174	50.0 - 120.0% of mass 95	68.5
175	4.0 - 9.0% of mass 174	4.8 (7)1
176	93.0 - 101% of mass 174	66.2 (96.7)1
177	5.0 - 9.0% of mass 176	4.3 (6.5)2

1-Value is % of mass 174 2-Value is % of mass 176

This Check Applies to the following Samples, MS, MSD, Blanks, and Standards:

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
STD0.02	R1782633-1	R1737673_EV2	01/07/24 20:20
STD0.05	R1782633-2	R1737674_EV2	01/07/24 20:57
STD0.1	R1782633-3	R1737675_EV2	01/07/24 21:36
STD0.2	R1782633-4	R1737676_EV2	01/07/24 22:14
STD0.5	R1782633-5	R1737677_EV2	01/07/24 22:54
STD1.0	R1782633-6	R1737678_EV2	01/07/24 23:36
STD5.0	R1782633-7	R1737679_EV2	01/08/24 00:15
STD10.0	R1782633-8	R1737680_EV2	01/08/24 00:56
STD20	R1782633-9	R1737681_EV2	01/08/24 01:35
STD50	R1782633-10	R1737682_EV2	01/08/24 02:14
ICV QUANT	R1782633-11	R1737687_EV2	01/08/24 13:39



**Instrument Performance Check (Tune) Summary
Form 5
Air Volatiles
Bromofluorobenzene (BFB)**

Client : TRC Environmental Corp	Lab Number : L2407645
Project Name : K710 IAQ	Project Number : 457205
Instrument ID : AIRLAB17	Analysis Date : 02/15/24 14:00
Tune Standard : WG1885733-1	Tune File ID : r1738647_tune

m/e	Ion Abundance Criteria	%Relative Abundance
50	8.0 - 40.0% of mass 95	17
75	30.0 - 66.0% of mass 95	40.1
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.5
173	Less than 2.0% of mass 174	0.5 (.7)1
174	50.0 - 120.0% of mass 95	65.3
175	4.0 - 9.0% of mass 174	4.6 (7)1
176	93.0 - 101% of mass 174	63.2 (96.8)1
177	5.0 - 9.0% of mass 176	4.1 (6.5)2

1-Value is % of mass 174 2-Value is % of mass 176

This Check Applies to the following Samples, MS, MSD, Blanks, and Standards:

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
WG1885733-2CCAL	WG1885733-2	R1738650_EV2	02/15/24 16:05
WG1885733-3LCS	WG1885733-3	R1738650_EV2	02/15/24 16:05
WG1885733-4BLANK	WG1885733-4	R1738652_EV2	02/15/24 19:40
TRC-AA-01	L2407645-04	R1738653_EV2	02/15/24 20:20
TRC-IA-01	L2407645-01	R1738654_EV2	02/15/24 20:59
TRC-IA-02	L2407645-02	R1738655_EV2	02/15/24 21:39
TRC-IA-03	L2407645-03	R1738657_EV2	02/15/24 22:57
WG1885733-5DUP	WG1885733-5	R1738658_EV2	02/15/24 23:36



Internal Standard Area and RT Summary

Form 8a

Air Volatiles

Client : TRC Environmental Corp	Lab Number : L2407645
Project Name : K710 IAQ	Project Number : 457205
Instrument ID : AIRLAB17	Analysis Date : 02/15/24 16:05:00
Sample No : WG1885733-2	Lab File ID : R1738650_EV2

	Bromochloromethane		1,4-Difluorobenzene		Chlorobenzene-d5	
	Area	RT	Area	RT	Area	RT
WG1885733-2	214398	8.83	619357	11.07	82380	15.83
Upper Limit	300157	9.16	867100	11.40	115332	16.16
Lower Limit	128639	8.50	371614	10.74	49428	15.50
Sample ID						
WG1885733-3 LCS	214398	8.83	619357	11.07	82380	15.83
WG1885733-4 BLANK	215714	8.84	605534	11.08	78066	15.84
TRC-AA-01	219946	8.84	621944	11.08	82604	15.84
TRC-IA-01	224627	8.84	640912	11.08	85138	15.83
TRC-IA-02	221417	8.84	627570	11.08	84783	15.84
TRC-IA-03	218397	8.85	615735	11.09	81977	15.84
TRC-IA-03 DUP	211441	8.85	590590	11.09	79575	15.85

Area Upper Limit = +40% of internal standard area
 Area Lower Limit = - 40% of internal standard area

RT Upper Limit = +0.33 minutes of internal standard RT
 RT Lower Limit = -0.33 minutes of internal standard RT

* Values outside of QC limits





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 File: PM15856-1
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Volatile Organics in Air by TO-15 SIM (AIR)

Holding Time: 30 days
 Container/Sample Preservation: 1 - Canister - 2.7 Liter

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
1,1,1-Trichloroethane	71-55-6	0.02	0.0059	ppbV	70-130	25		25	25			
1,1,1,2-Tetrachloroethane	630-20-6	0.02	0.01	ppbV	70-130	25		25	25			
1,1,2,2-Tetrachloroethane	79-34-5	0.02	0.0067	ppbV	70-130	25		25	25			
1,1,2-Trichloroethane	79-00-5	0.02	0.0097	ppbV	70-130	25		25	25			
1,1-Dichloroethane	75-34-3	0.02	0.0086	ppbV	70-130	25		25	25			
1,1-Dichloroethene	75-35-4	0.02	0.0077	ppbV	70-130	25		25	25			
1,2,3-Trichloropropane	96-18-4	0.02	0.0073	ppbV	70-130	25		25	25			
1,2,4-Trimethylbenzene	95-63-6	0.02	0.0076	ppbV	70-130	25		25	25			
1,2-Dibromoethane	106-93-4	0.02	0.0091	ppbV	70-130	25		25	25			
1,2-Dibromo-3-chloropropane	96-12-8	0.02	0.0124	ppbV	70-130	25		25	25			
1,2-Dichlorobenzene	95-50-1	0.02	0.0062	ppbV	70-130	25		25	25			
1,2-Dichloroethane	107-06-2	0.02	0.0083	ppbV	70-130	25		25	25			
1,2-Dichloropropane	78-87-5	0.02	0.0083	ppbV	70-130	25		25	25			
1,3,5-Trimethylbenzene	108-67-8	0.02	0.0096	ppbV	70-130	25		25	25			
1,3-Butadiene	106-99-0	0.02	0.0106	ppbV	70-130	25		25	25			
1,3-Dichlorobenzene	541-73-1	0.02	0.0077	ppbV	70-130	25		25	25			
1,4-Dichlorobenzene	106-46-7	0.02	0.0075	ppbV	70-130	25		25	25			
1,4-Dioxane	123-91-1	0.1	0.0344	ppbV	70-130	25		25	25			
1-Bromo-2-Chloroethane	107-04-0	0.02	0.0102	ppbV	70-130	25		25	25			
1-Bromo-3-Fluorobenzene	1073-06-9	0.02	0.0065	ppbV	70-130	25		25	25			
1-Bromo-4-Ethylbenzene	1585-07-5	0.05	0.004	ppbV	70-130	25		25	25			
2,2,4-Trimethylpentane	540-84-1	0.2	0.037	ppbV	70-130	25		25	25			
2-Bromopyridine	109-04-6	0.5	0.0161	ppbV	30-150	25		25	25			
2-Hexanone	591-78-6	0.2	0.0354	ppbV	70-130	25		25	25			
3,4-Dichlorobenzotrifluoride	328-84-7	0.02	0.0024	ppbV	70-130	25		25	25			
3-Amino-4-Chlorobenzotrifluoride	121-50-6	1.25	0.0178	ppbV	30-150	25		25	25			
3-Chloropropene	107-05-1	0.2	0.0327	ppbV	70-130	25		25	25			
3-Nitro-4-Chlorobenzotrifluoride	121-17-5	2.5	0.129	ppbV	30-150	25		25	25			
4-Bromofluorobenzene	460-00-4	0.2	0.0094	ppbV	70-130	25		25	25			
4-Chlorobenzotrifluoride	98-56-6	0.02	0.006	ppbV	70-130	25		25	25			
4-Ethyltoluene	622-96-8	0.02	0.0099	ppbV	70-130	25		25	25			
Benzene	71-43-2	0.1	0.0298	ppbV	70-130	25		25	25			
Benzyl chloride	100-44-7	0.1	0.0332	ppbV	70-130	25		25	25			
Bromobenzene	108-86-1	0.2	0.0262	ppbV	70-130	25		25	25			
Bromodichloromethane	75-27-4	0.02	0.0074	ppbV	70-130	25		25	25			
Bromoform	75-25-2	0.02	0.0111	ppbV	70-130	25		25	25			
Bromomethane	74-83-9	0.02	0.0094	ppbV	70-130	25		25	25			
Carbon disulfide	75-15-0	0.2	0.0316	ppbV	70-130	25		25	25			
Carbon tetrachloride	56-23-5	0.02	0.011	ppbV	70-130	25		25	25			
Chlorobenzene	108-90-7	0.1	0.0258	ppbV	70-130	25		25	25			
Chloroethane	75-00-3	0.1	0.0395	ppbV	70-130	25		25	25			
Chloroform	67-66-3	0.02	0.0071	ppbV	70-130	25		25	25			

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
 Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.



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Volatile Organics in Air by TO-15 SIM (AIR)

Holding Time: 30 days
 Container/Sample Preservation: 1 - Canister - 2.7 Liter

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
Chloromethane	74-87-3	0.2	0.0756	ppbV	70-130	25		25	25			
cis-1,2-Dichloroethene	156-59-2	0.02	0.0102	ppbV	70-130	25		25	25			
trans-1,2-Dichloroethene	156-60-5	0.02	0.009	ppbV	70-130	25		25	25			
1,2-Dichloroethene (total)	540-59-0	0.02	0.009	ppbV				25	25			
cis-1,3-Dichloropropene	10061-01-5	0.02	0.0118	ppbV	70-130	25		25	25			
1,3-Dichloropropene, Total	542-75-6	0.02	0.0115	ppbV				25	25			
Cyclohexane	110-82-7	0.2	0.0313	ppbV	70-130	25		25	25			
Dibromochloromethane	124-48-1	0.02	0.008	ppbV	70-130	25		25	25			
Dibromomethane	74-95-3	0.2	0.0251	ppbV	70-130	25		25	25			
Dichlorodifluoromethane	75-71-8	0.2	0.0499	ppbV	70-130	25		25	25			
Ethyl Alcohol	GCDAI06	5	1.35	ppbV	40-160	25		25	25			
Ethyl Acetate	141-78-6	0.5	0.323	ppbV	70-130	25		25	25			
Ethylbenzene	100-41-4	0.02	0.0085	ppbV	70-130	25		25	25			
Fluorobenzene	462-06-6	0.05	0.009	ppbV	70-130	25		25	25			
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	0.05	0.0083	ppbV	70-130	25		25	25			
1,2-Dichloro-1,1,2,2-tetrafluoroethane	76-14-2	0.05	0.0064	ppbV	70-130	25		25	25			
Methylcyclohexane	108-87-2	0.02	0.0051	ppbV	70-130	25		25	25			
Methylene chloride	75-09-2	0.5	0.11	ppbV	70-130	25		25	25			
Methyl tert butyl ether	1634-04-4	0.2	0.0261	ppbV	70-130	25		25	25			
m/p-Dibromobenzene	108-36-1/106-37-6	0.5	0.0137	ppbV	70-130	25		25	25			
Naphthalene	91-20-3	0.05	0.021	ppbV	70-130	25		25	25			
p/m-Xylene	179601-23-1	0.04	0.018	ppbV	70-130	25		25	25			
o-Xylene	95-47-6	0.02	0.0087	ppbV	70-130	25		25	25			
Heptane	142-82-5	0.2	0.0313	ppbV	70-130	25		25	25			
n-Hexane	110-54-3	0.2	0.0471	ppbV	70-130	25		25	25			
Propylene	115-07-1	0.5	0.167	ppbV	70-130	25		25	25			
Styrene	100-42-5	0.02	0.0079	ppbV	70-130	25		25	25			
tert-Butyl Alcohol	75-65-0	0.5	0.134	ppbV	70-130	25		25	25			
Tetrachloroethene	127-18-4	0.02	0.0074	ppbV	70-130	25		25	25			
Tetrahydrofuran	109-99-9	0.5	0.142	ppbV	70-130	25		25	25			
Toluene	108-88-3	0.1	0.0166	ppbV	70-130	25		25	25			
trans-1,3-Dichloropropene	10061-02-6	0.02	0.0115	ppbV	70-130	25		25	25			
Trichloroethene	79-01-6	0.02	0.006	ppbV	70-130	25		25	25			
1,2,4-Trichlorobenzene	120-82-1	0.05	0.0146	ppbV	70-130	25		25	25			
Trichlorofluoromethane	75-69-4	0.05	0.0092	ppbV	70-130	25		25	25			
Vinyl acetate	108-05-4	1	0.286	ppbV	70-130	25		25	25			
Vinyl bromide	593-60-2	0.2	0.0431	ppbV	70-130	25		25	25			
Hexachlorobutadiene	87-68-3	0.05	0.011	ppbV	70-130	25		25	25			
iso-Propyl Alcohol	67-63-0	0.5	0.249	ppbV	40-160	25		25	25			
Vinyl chloride	75-01-4	0.02	0.0088	ppbV	70-130	25		25	25			
Acrylonitrile	107-13-1	0.5	0.162	ppbV	70-130	25		25	25			
n-Butylbenzene	104-51-8	0.2	0.0319	ppbV	70-130	25		25	25			

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
 Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.



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File: PM15856-1
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Volatile Organics in Air by TO-15 SIM (AIR)

Holding Time: 30 days
Container/Sample Preservation: 1 - Canister - 2.7 Liter

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria	
sec-Butylbenzene	135-98-8	0.2	0.0266	ppbV	70-130	25		25	25		
Isopropylbenzene	98-82-8	0.2	0.0299	ppbV	70-130	25		25	25		
Xylene (Total)	1330-20-7	0.02	0.0087	ppbV				25	25		
p-Isopropyltoluene	99-87-6	0.2	0.0366	ppbV	70-130	25		25	25		
Acetone	67-64-1	1	0.539	ppbV	40-160	25		25	25		
2-Butanone	78-93-3	0.5	0.132	ppbV	70-130	25		25	25		
4-Methyl-2-pentanone	108-10-1	0.5	0.191	ppbV	70-130	25		25	25		
1,2,3-Trichlorobenzene	87-61-6	0.05	0.0223	ppbV	70-130	25		25	25		
Acrolein	107-02-8	0.05	0.0387	ppbV	60-113	25		25	25		
1,2-Dichloroethane-d4	17060-07-0									70-130	
Toluene-d8	2037-26-5									70-130	
Bromofluorobenzene	460-00-4									70-130	

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.



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Volatiles Sample Data

Results Summary
Form 1
Volatile Organics in Air by SIM

Client : TRC Environmental Corp	Lab Number : L2407645
Project Name : K710 IAQ	Project Number : 457205
Lab ID : L2407645-01	Date Collected : 02/09/24 15:44
Client ID : TRC-IA-01	Date Received : 02/09/24
Sample Location : 168 8TH STREET, BROOKLYN, NY	Date Analyzed : 02/15/24 20:59
Sample Matrix : AIR	Dilution Factor : 1
Analytical Method : 48,TO-15-SIM	Analyst : JMB
Lab File ID : R1738654_EV2	Instrument ID : AIRLAB17
Sample Amount : 250 ml	GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
75-01-4	Vinyl chloride	ND	0.020	--	ND	0.051	--	U
75-35-4	1,1-Dichloroethene	ND	0.020	--	ND	0.079	--	U
156-59-2	cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--	U
71-55-6	1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--	U
56-23-5	Carbon tetrachloride	0.075	0.020	--	0.472	0.126	--	
79-01-6	Trichloroethene	ND	0.020	--	ND	0.107	--	U
127-18-4	Tetrachloroethene	0.037	0.020	--	0.251	0.136	--	



Results Summary
Form 1
Volatile Organics in Air by SIM

Client : TRC Environmental Corp	Lab Number : L2407645
Project Name : K710 IAQ	Project Number : 457205
Lab ID : L2407645-02	Date Collected : 02/09/24 15:24
Client ID : TRC-IA-02	Date Received : 02/09/24
Sample Location : 168 8TH STREET, BROOKLYN, NY	Date Analyzed : 02/15/24 21:39
Sample Matrix : AIR	Dilution Factor : 1
Analytical Method : 48,TO-15-SIM	Analyst : JMB
Lab File ID : R1738655_EV2	Instrument ID : AIRLAB17
Sample Amount : 250 ml	GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
75-01-4	Vinyl chloride	ND	0.020	--	ND	0.051	--	U
75-35-4	1,1-Dichloroethene	ND	0.020	--	ND	0.079	--	U
156-59-2	cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--	U
71-55-6	1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--	U
56-23-5	Carbon tetrachloride	0.079	0.020	--	0.497	0.126	--	
79-01-6	Trichloroethene	ND	0.020	--	ND	0.107	--	U
127-18-4	Tetrachloroethene	0.047	0.020	--	0.319	0.136	--	



Results Summary
Form 1
Volatile Organics in Air by SIM

Client : TRC Environmental Corp	Lab Number : L2407645
Project Name : K710 IAQ	Project Number : 457205
Lab ID : L2407645-03	Date Collected : 02/09/24 14:02
Client ID : TRC-IA-03	Date Received : 02/09/24
Sample Location : 168 8TH STREET, BROOKLYN, NY	Date Analyzed : 02/15/24 22:57
Sample Matrix : AIR	Dilution Factor : 1
Analytical Method : 48,TO-15-SIM	Analyst : JMB
Lab File ID : R1738657_EV2	Instrument ID : AIRLAB17
Sample Amount : 250 ml	GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
75-01-4	Vinyl chloride	ND	0.020	--	ND	0.051	--	U
75-35-4	1,1-Dichloroethene	ND	0.020	--	ND	0.079	--	U
156-59-2	cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--	U
71-55-6	1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--	U
56-23-5	Carbon tetrachloride	0.081	0.020	--	0.510	0.126	--	
79-01-6	Trichloroethene	ND	0.020	--	ND	0.107	--	U
127-18-4	Tetrachloroethene	0.037	0.020	--	0.251	0.136	--	



Results Summary
Form 1
Volatile Organics in Air by SIM

Client : TRC Environmental Corp	Lab Number : L2407645
Project Name : K710 IAQ	Project Number : 457205
Lab ID : L2407645-04	Date Collected : 02/09/24 15:32
Client ID : TRC-AA-01	Date Received : 02/09/24
Sample Location : 168 8TH STREET, BROOKLYN, NY	Date Analyzed : 02/15/24 20:20
Sample Matrix : AIR	Dilution Factor : 1
Analytical Method : 48,TO-15-SIM	Analyst : JMB
Lab File ID : R1738653_EV2	Instrument ID : AIRLAB17
Sample Amount : 250 ml	GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
75-01-4	Vinyl chloride	ND	0.020	--	ND	0.051	--	U
75-35-4	1,1-Dichloroethene	ND	0.020	--	ND	0.079	--	U
156-59-2	cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--	U
71-55-6	1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--	U
56-23-5	Carbon tetrachloride	0.078	0.020	--	0.491	0.126	--	
79-01-6	Trichloroethene	ND	0.020	--	ND	0.107	--	U
127-18-4	Tetrachloroethene	0.031	0.020	--	0.210	0.136	--	



Results Summary
Form 1
Volatile Organics in Air by SIM

Client : TRC Environmental Corp
 Project Name : K710 IAQ
 Lab ID : WG1885733-4
 Client ID : WG1885733-4BLANK
 Sample Location :
 Sample Matrix : AIR
 Analytical Method : 48,TO-15-SIM
 Lab File ID : R1738652_EV2
 Sample Amount : 250 ml

Lab Number : L2407645
 Project Number : 457205
 Date Collected : NA
 Date Received : NA
 Date Analyzed : 02/15/24 19:40
 Dilution Factor : 1
 Analyst : JMB
 Instrument ID : AIRLAB17
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
75-01-4	Vinyl chloride	ND	0.020	--	ND	0.051	--	U
75-35-4	1,1-Dichloroethene	ND	0.020	--	ND	0.079	--	U
156-59-2	cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--	U
71-55-6	1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--	U
56-23-5	Carbon tetrachloride	ND	0.020	--	ND	0.126	--	U
79-01-6	Trichloroethene	ND	0.020	--	ND	0.107	--	U
127-18-4	Tetrachloroethene	ND	0.020	--	ND	0.136	--	U



Results Summary
Form 1
Volatile Organics in Air by SIM

Client : TRC Environmental Corp
 Project Name : K710 IAQ
 Lab ID : WG1885733-5
 Client ID : TRC-IA-03DUP
 Sample Location :
 Sample Matrix : AIR
 Analytical Method : 48,TO-15-SIM
 Lab File ID : R1738658_EV2
 Sample Amount : 250 ml

Lab Number : L2407645
 Project Number : 457205
 Date Collected : 02/09/24 14:02
 Date Received : 02/09/24
 Date Analyzed : 02/15/24 23:36
 Dilution Factor : 1
 Analyst : JMB
 Instrument ID : AIRLAB17
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
75-01-4	Vinyl chloride	ND	0.020	--	ND	0.051	--	U
75-35-4	1,1-Dichloroethene	ND	0.020	--	ND	0.079	--	U
156-59-2	cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--	U
71-55-6	1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--	U
56-23-5	Carbon tetrachloride	0.083	0.020	--	0.522	0.126	--	
79-01-6	Trichloroethene	ND	0.020	--	ND	0.107	--	U
127-18-4	Tetrachloroethene	0.042	0.020	--	0.285	0.136	--	



Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab17\2024\02\0215SIM\
 Data File : r1738653_Ev2.D
 Acq On : 15 Feb 2024 8:20 PM
 Operator : AIRLAB17:JMB
 Sample : L2407645-04,3,250,250
 Misc : WG1885733,ICAL20745
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 16 08:13:38 2024
 Quant Method : O:\Forensics\Data\Airlab17\2024\02\0215SIM\TSIM17_240107.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Mon Jan 08 15:36:14 2024
 Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab17\2024\02\0215SIM\r1738650_Ev2.D
 Sub List : 7-NY-SIM - .

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	8.842	49	219946	10.000	ppbV	0.00
Standard Area =	214398		Recovery =	102.59%		
33) 1,4-difluorobenzene	11.083	114	621944	10.000	ppbV	0.01
Standard Area =	619357		Recovery =	100.42%		
51) chlorobenzene-D5	15.842	54	82604	10.000	ppbV	0.02
Standard Area =	82380		Recovery =	100.27%		

System Monitoring Compounds

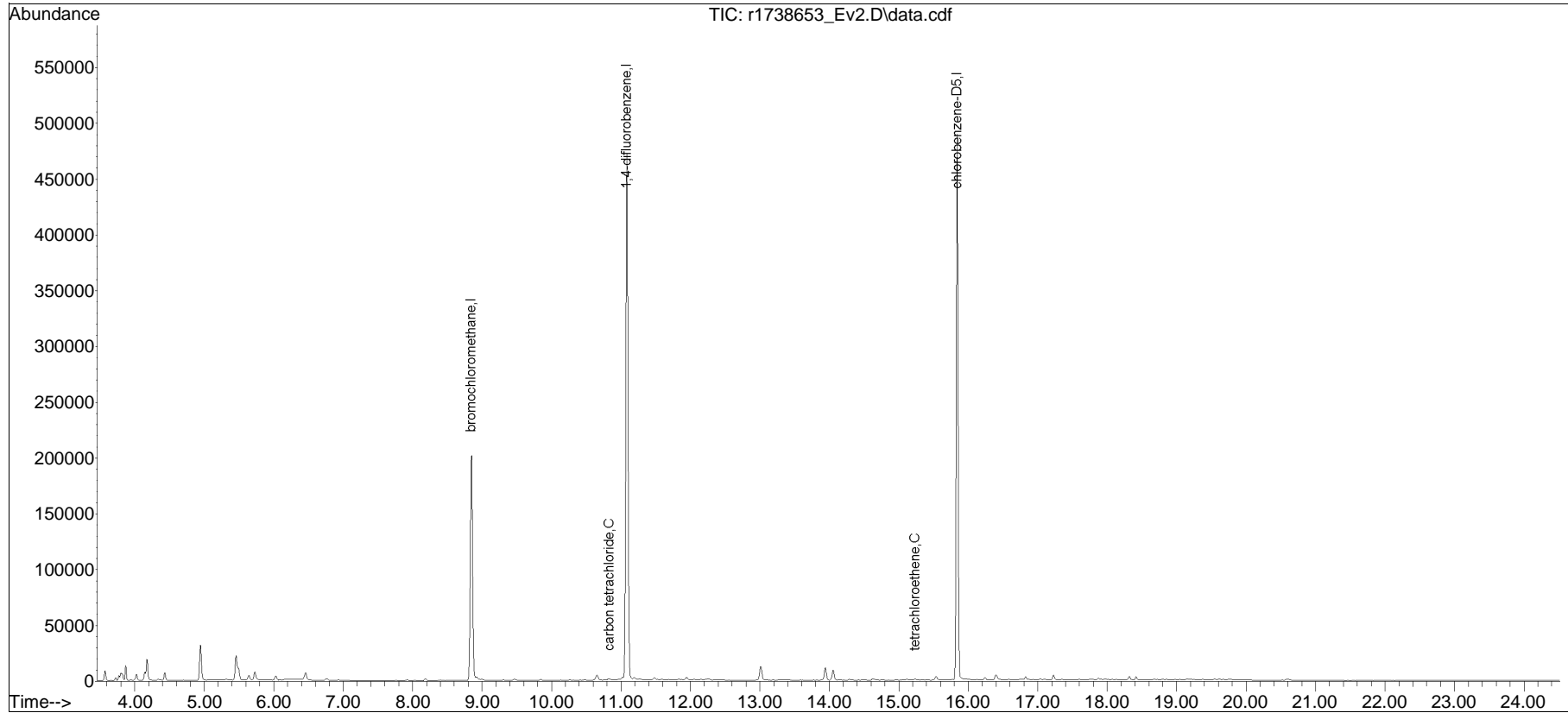
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
6) vinyl chloride	0.000		0		N.D.	
17) 1,1-dichloroethene	6.258		0		N.D.	
28) cis-1,2-dichloroethene	0.000		0		N.D.	
36) 1,1,1-trichloroethane	10.125		0		N.D.	
38) carbon tetrachloride	10.830	117	1338	0.078	ppbV #	95
44) trichloroethene	11.883		0		N.D.	
57) tetrachloroethene	15.233	166	600	0.031	ppbV #	88

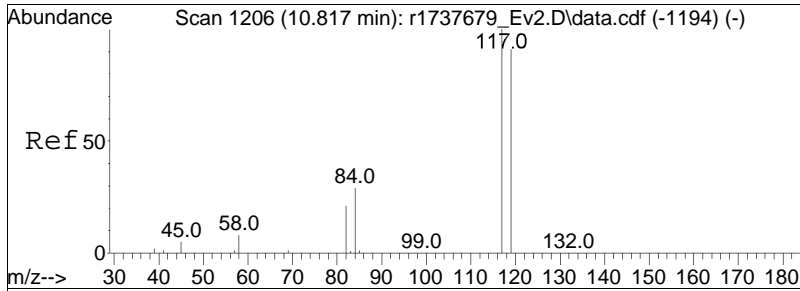
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sub List : 7-NY-SIM - .\Data\Airlab17\2024\02\0215SIM\r1738650_Ev2.D

Data Path : O:\Forensics\Data\Airlab17\2024\02\0215SIM\
Data File : r1738653_Ev2.D
Acq On : 15 Feb 2024 8:20 PM
Operator : AIRLAB17:JMB
Sample : L2407645-04,3,250,250
Misc : WG1885733,ICAL20745
ALS Vial : 0 Sample Multiplier: 1

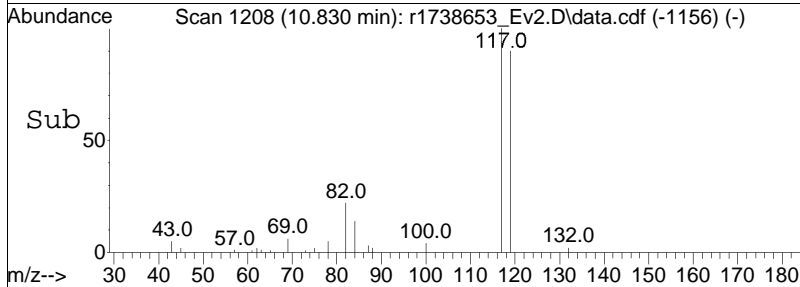
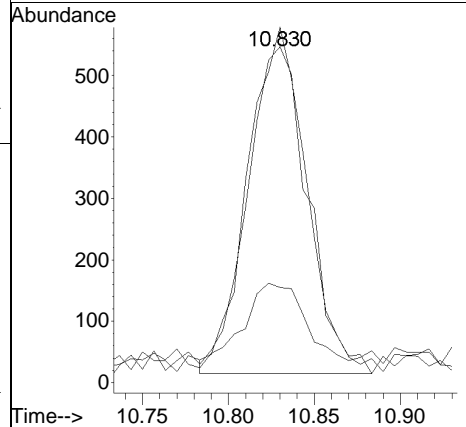
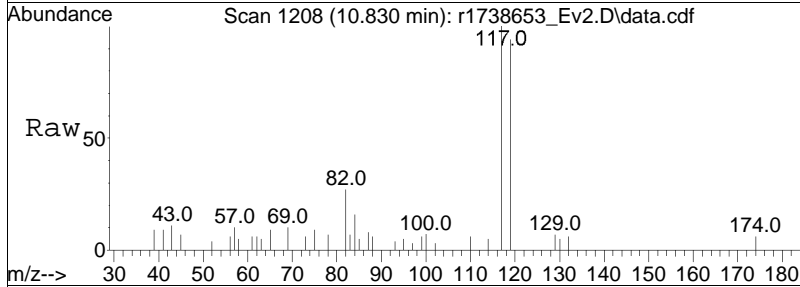
Quant Time: Feb 16 08:13:38 2024
Quant Method : O:\Forensics\Data\Airlab17\2024\02\0215SIM\TSIM17_240107.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Mon Jan 08 15:36:14 2024
Response via : Initial Calibration

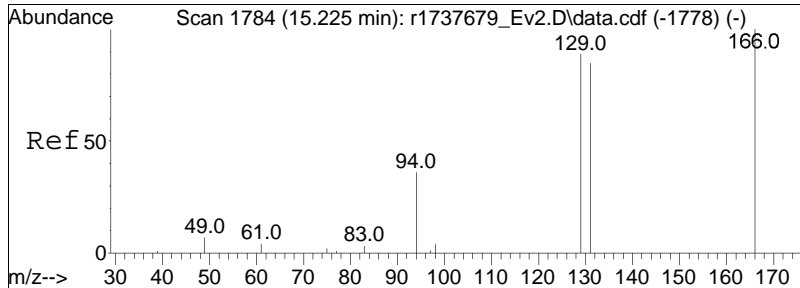




#38
 carbon tetrachloride
 Concen: 0.08 ppbV
 RT: 10.830 min Scan# 1208
 Delta R.T. 0.013 min
 Lab File: r1738653_Ev2.D
 Acq: 15 Feb 2024 8:20 PM

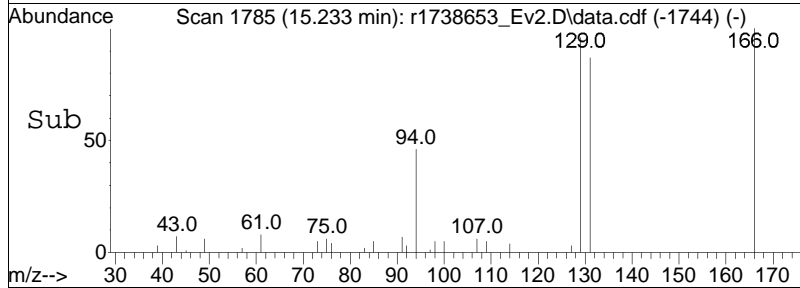
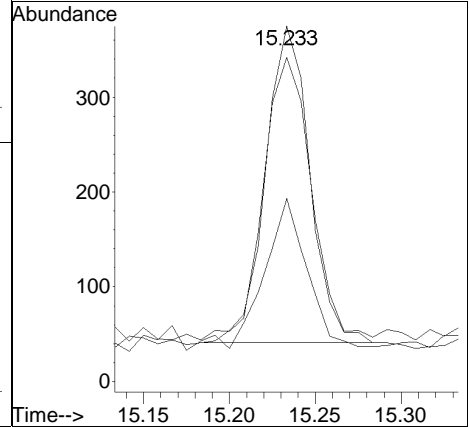
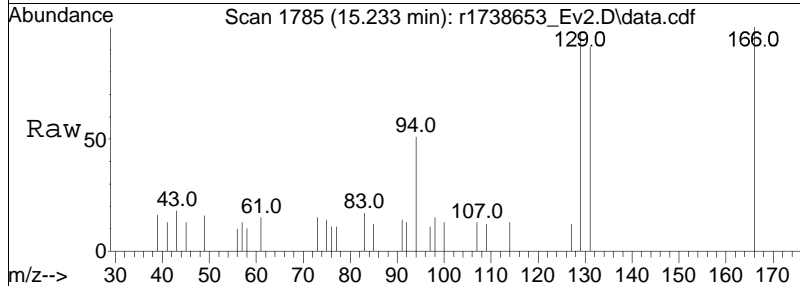
Tgt Ion	Ratio	Resp	Lower	Upper
117	100	1338		
119	94.5	73.0	109.4	
82	26.8	16.8	25.2#	





#57
 tetrachloroethene
 Concen: 0.03 ppbV
 RT: 15.233 min Scan# 1785
 Delta R.T. 0.008 min
 Lab File: r1738653_Ev2.D
 Acq: 15 Feb 2024 8:20 PM

Tgt Ion	Ratio	Lower	Upper
166	100		
131	91.2	68.3	102.5
94	51.5	28.9	43.3#



Manual Integration Report

Data Path : O:\Forensics\Data\Airlab17QMethod : TSIM17_240107.M
Data File : r1738653_Ev2.D Operator : AIRLAB17:JMB
Date Inj'd : 2/15/2020 0:8: 0 Instrument :
Sample : L2407645-04,3,250,250 Quant Date : 2/16/2024 8:13 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab17\2024\02\0215SIM\
 Data File : r1738654_Ev2.D
 Acq On : 15 Feb 2024 8:59 PM
 Operator : AIRLAB17:JMB
 Sample : L2407645-01,3,250,250
 Misc : WG1885733,ICAL20745
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 16 08:13:47 2024
 Quant Method : O:\Forensics\Data\Airlab17\2024\02\0215SIM\TSIM17_240107.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Mon Jan 08 15:36:14 2024
 Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab17\2024\02\0215SIM\r1738650_Ev2.D
 Sub List : 7-NY-SIM - .

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	8.842	49	224627	10.000	ppbV	0.00
Standard Area =	214398		Recovery =	104.77%		
33) 1,4-difluorobenzene	11.083	114	640912	10.000	ppbV	0.01
Standard Area =	619357		Recovery =	103.48%		
51) chlorobenzene-D5	15.833	54	85138	10.000	ppbV	0.00
Standard Area =	82380		Recovery =	103.35%		

System Monitoring Compounds

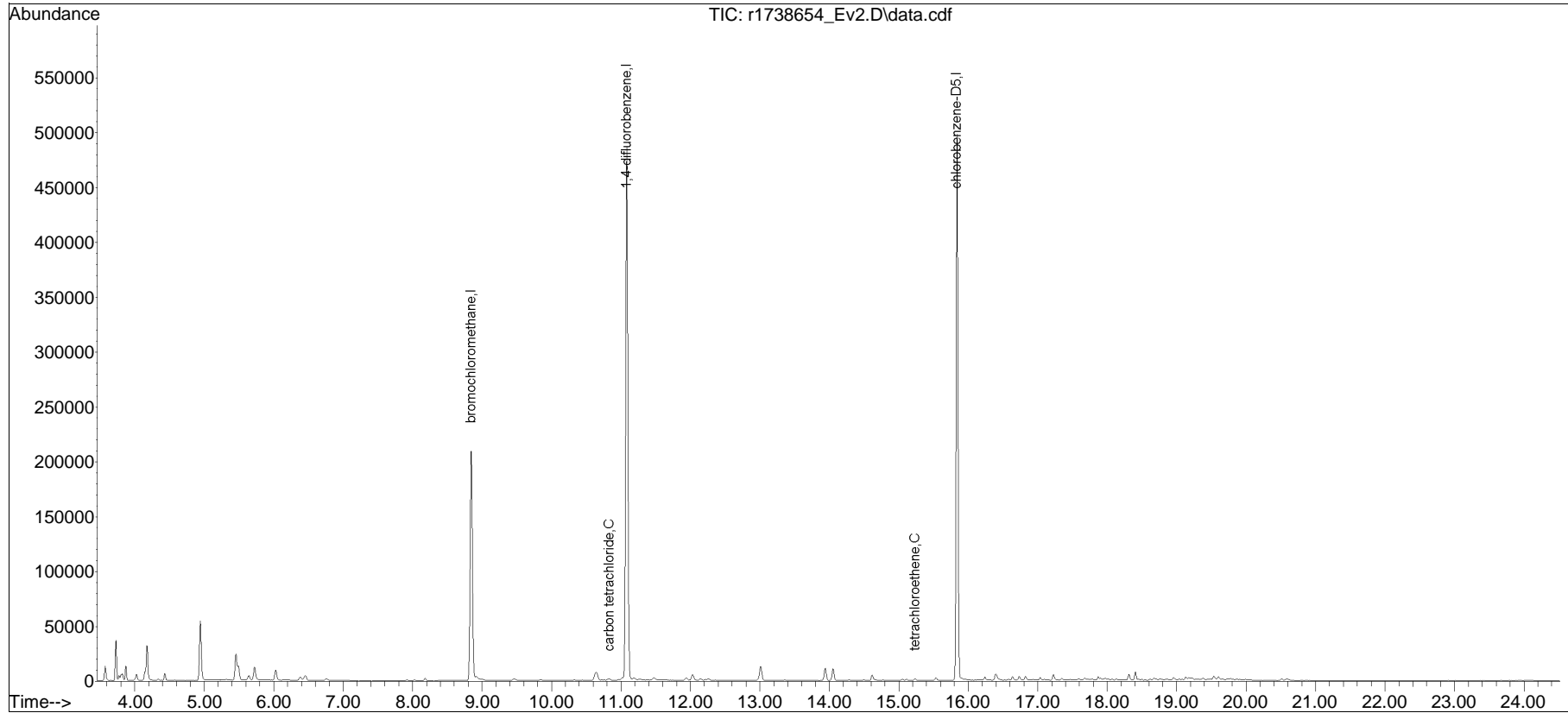
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
6) vinyl chloride	0.000		0		N.D.	
17) 1,1-dichloroethene	0.000		0		N.D.	
28) cis-1,2-dichloroethene	0.000		0		N.D.	
36) 1,1,1-trichloroethane	0.000		0		N.D.	
38) carbon tetrachloride	10.830	117	1334M4	0.075	ppbV	
44) trichloroethene	11.877		0		N.D.	
57) tetrachloroethene	15.233	166	746M4	0.037	ppbV	

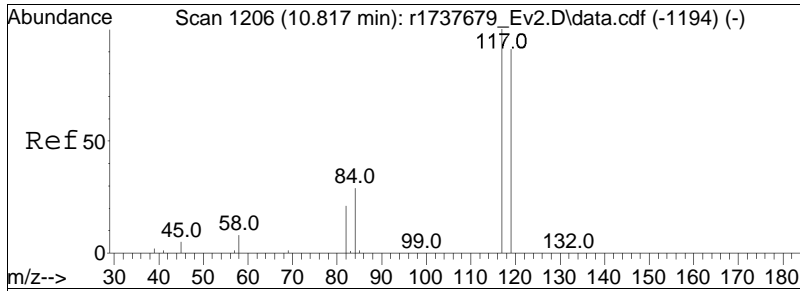
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sub List : 7-NY-SIM - .\Data\Airlab17\2024\02\0215SIM\r1738650_Ev2.D

Data Path : O:\Forensics\Data\Airlab17\2024\02\0215SIM\
Data File : r1738654_Ev2.D
Acq On : 15 Feb 2024 8:59 PM
Operator : AIRLAB17:JMB
Sample : L2407645-01,3,250,250
Misc : WG1885733,ICAL20745
ALS Vial : 0 Sample Multiplier: 1

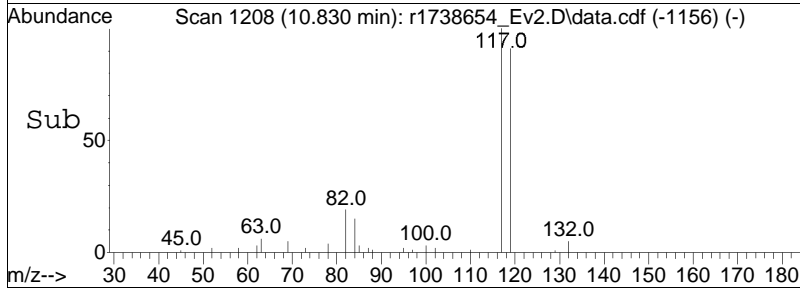
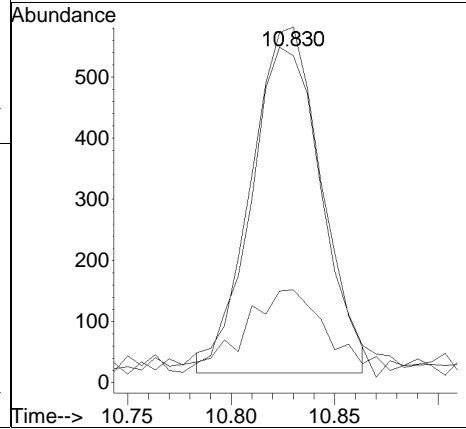
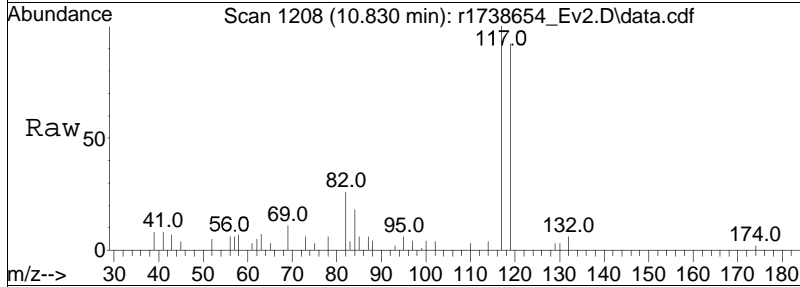
Quant Time: Feb 16 08:13:47 2024
Quant Method : O:\Forensics\Data\Airlab17\2024\02\0215SIM\TSIM17_240107.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Mon Jan 08 15:36:14 2024
Response via : Initial Calibration

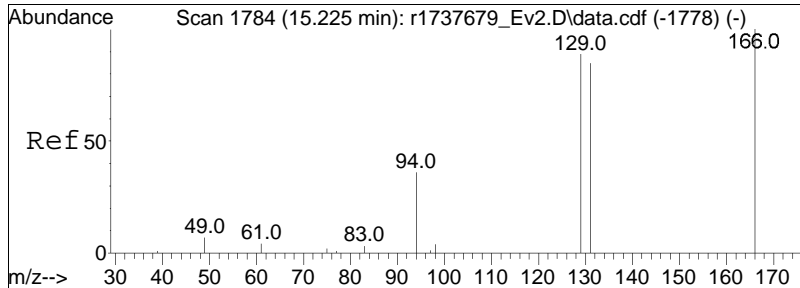




#38
 carbon tetrachloride
 Concen: 0.08 ppbV m
 RT: 10.830 min Scan# 1208
 Delta R.T. 0.013 min
 Lab File: r1738654_Ev2.D
 Acq: 15 Feb 2024 8:59 PM

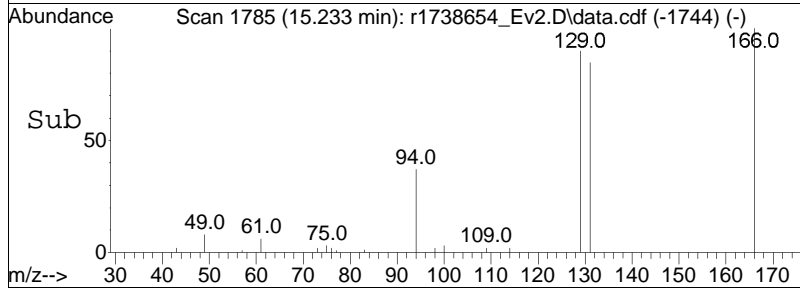
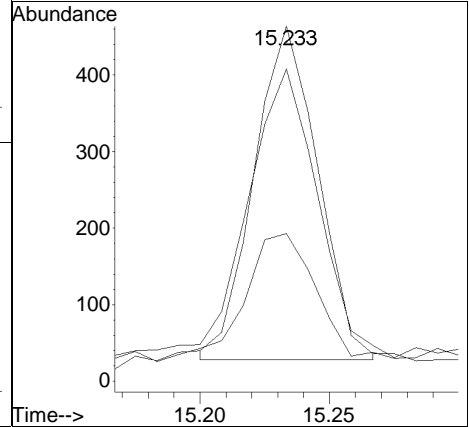
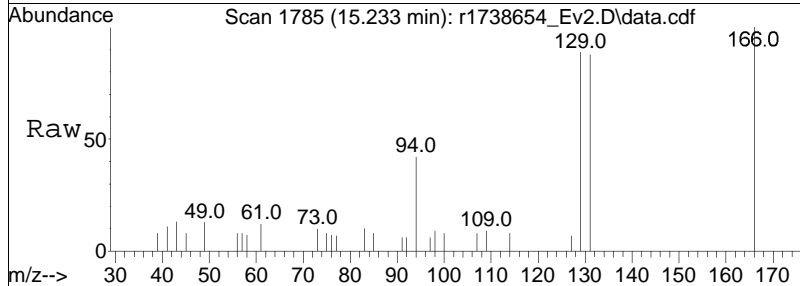
Tgt Ion	Ratio	Resp	Lower	Upper
117	100	1334		
119	91.9	73.0	109.4	
82	26.1	16.8	25.2#	





#57
 tetrachloroethene
 Concen: 0.04 ppbV m
 RT: 15.233 min Scan# 1785
 Delta R.T. 0.008 min
 Lab File: r1738654_Ev2.D
 Acq: 15 Feb 2024 8:59 PM

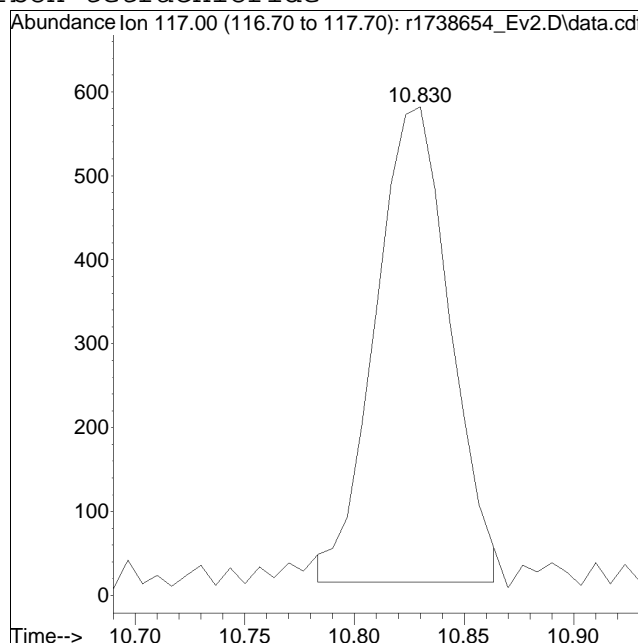
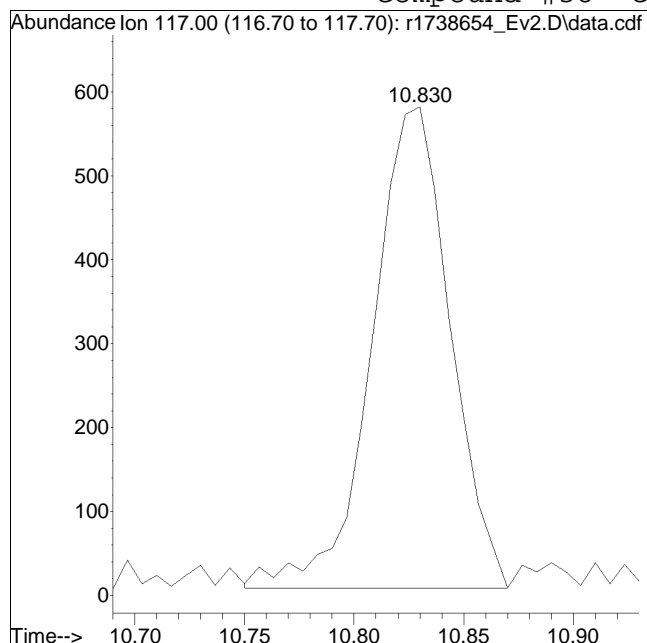
Tgt Ion	Ratio	Lower	Upper
166	100		
131	87.9	68.3	102.5
94	41.6	28.9	43.3



Manual Integration Report

Data Path : O:\Forensics\Data\Airlab17QMethod : TSIM17_240107.M
Data File : r1738654_Ev2.D Operator : AIRLAB17:JMB
Date Inj'd : 2/15/2020 0:8: 9 Instrument :
Sample : L2407645-01,3,250,250 Quant Date : 2/16/2024 8:13 am

Compound #38: carbon tetrachloride



Original Peak Response = 1419

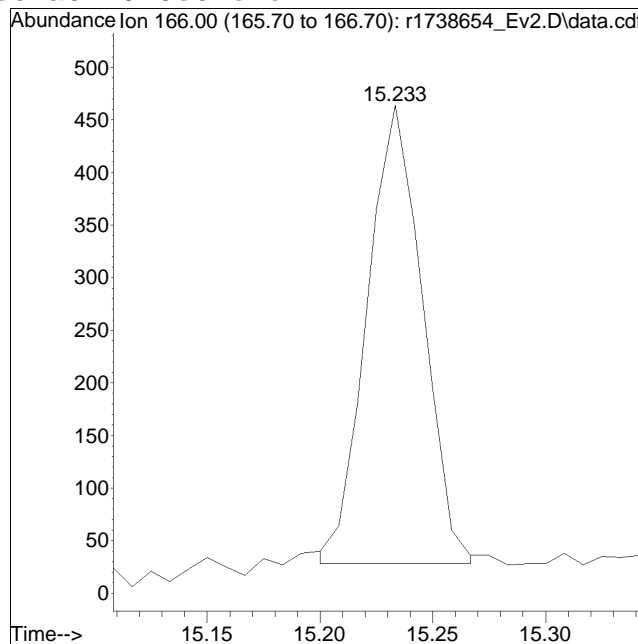
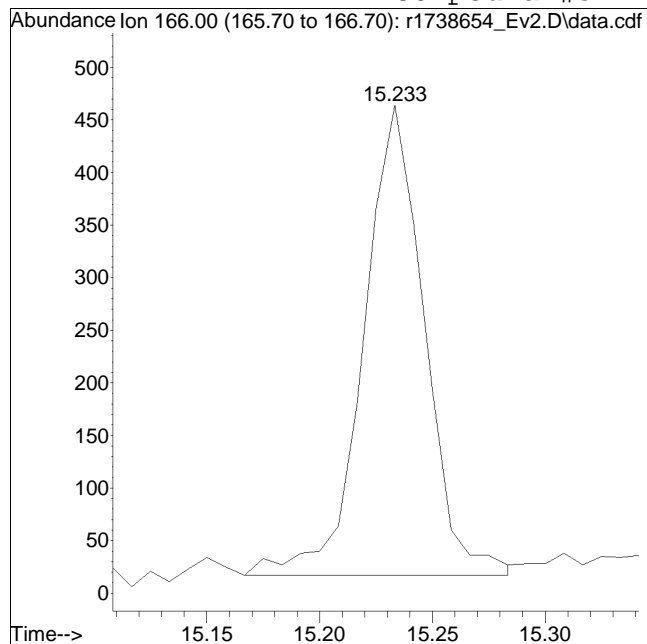
Manual Peak Response = 1334 M4

M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : O:\Forensics\Data\Airlab17QMethod : TSIM17_240107.M
Data File : r1738654_Ev2.D Operator : AIRLAB17:JMB
Date Inj'd : 2/15/2020 0:8: 9 Instrument :
Sample : L2407645-01,3,250,250 Quant Date : 2/16/2024 8:13 am

Compound #57: tetrachloroethene



Original Peak Response = 840

Manual Peak Response = 746 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab17\2024\02\0215SIM\
 Data File : r1738655_Ev2.D
 Acq On : 15 Feb 2024 9:39 PM
 Operator : AIRLAB17:JMB
 Sample : L2407645-02,3,250,250
 Misc : WG1885733,ICAL20745
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 16 08:13:55 2024
 Quant Method : O:\Forensics\Data\Airlab17\2024\02\0215SIM\TSIM17_240107.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Mon Jan 08 15:36:14 2024
 Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab17\2024\02\0215SIM\r1738650_Ev2.D
 Sub List : 7-NY-SIM - .

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	8.842	49	221417	10.000	ppbV	0.00
Standard Area =	214398		Recovery =	103.27%		
33) 1,4-difluorobenzene	11.083	114	627570	10.000	ppbV	0.01
Standard Area =	619357		Recovery =	101.33%		
51) chlorobenzene-D5	15.842	54	84783	10.000	ppbV	0.02
Standard Area =	82380		Recovery =	102.92%		

System Monitoring Compounds

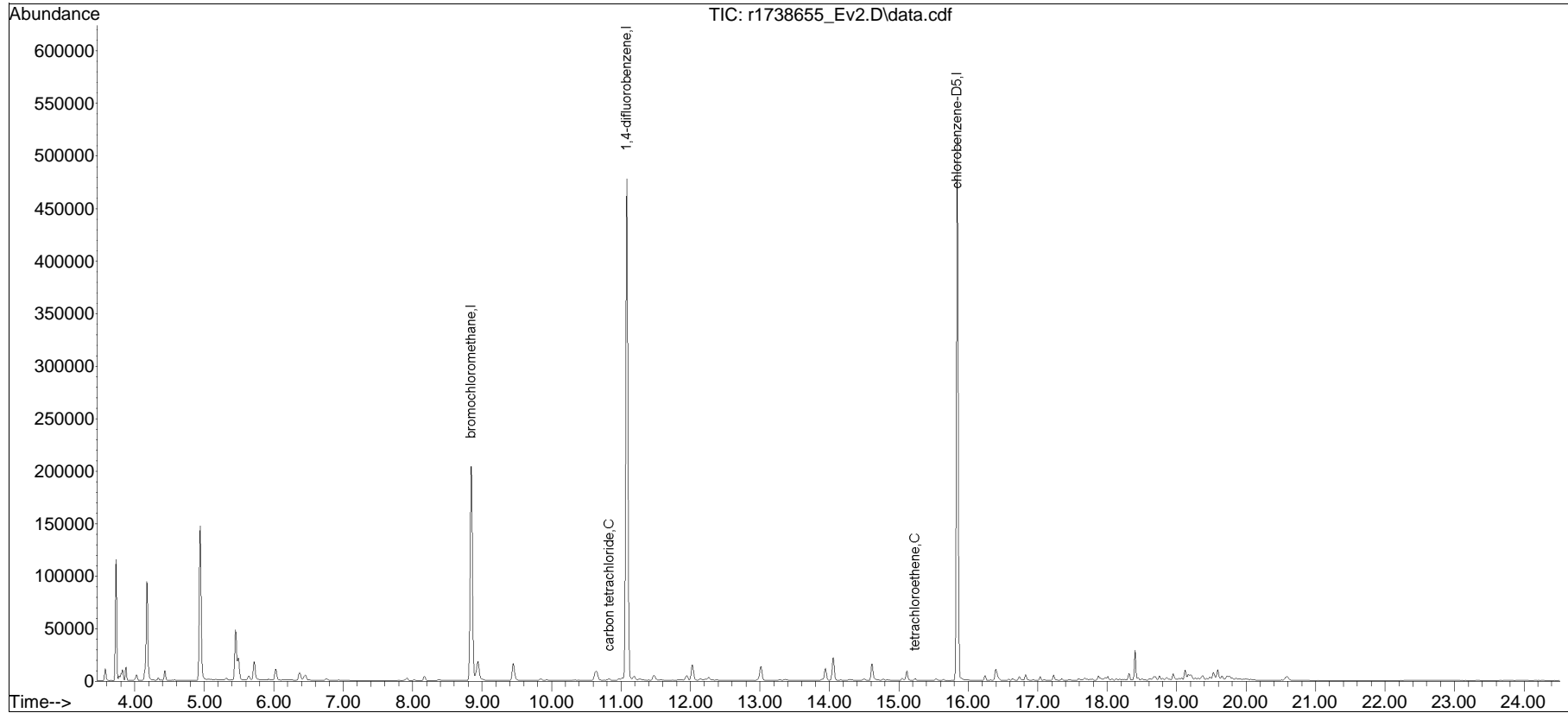
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
6) vinyl chloride	0.000		0		N.D.	
17) 1,1-dichloroethene	0.000		0		N.D.	
28) cis-1,2-dichloroethene	0.000		0		N.D.	
36) 1,1,1-trichloroethane	0.000		0		N.D.	
38) carbon tetrachloride	10.830	117	1381	0.079	ppbV	89
44) trichloroethene	0.000		0		N.D.	
57) tetrachloroethene	15.233	166	929	0.047	ppbV #	94

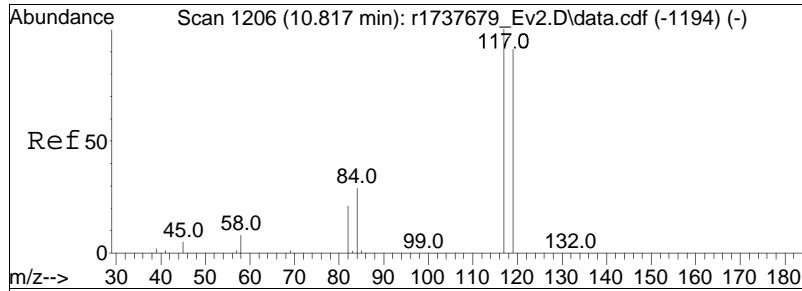
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sub List : 7-NY-SIM - .\Data\Airlab17\2024\02\0215SIM\r1738650_Ev2.D

Data Path : O:\Forensics\Data\Airlab17\2024\02\0215SIM\
Data File : r1738655_Ev2.D
Acq On : 15 Feb 2024 9:39 PM
Operator : AIRLAB17:JMB
Sample : L2407645-02,3,250,250
Misc : WG1885733,ICAL20745
ALS Vial : 0 Sample Multiplier: 1

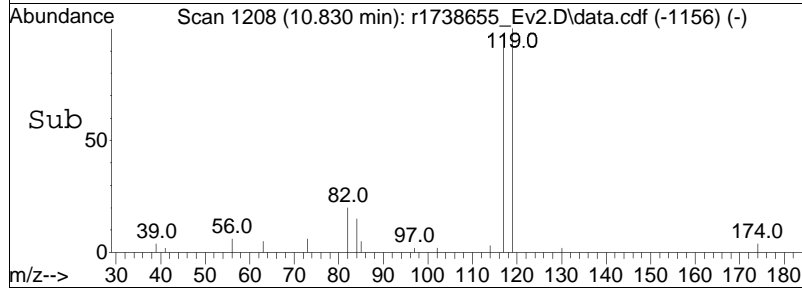
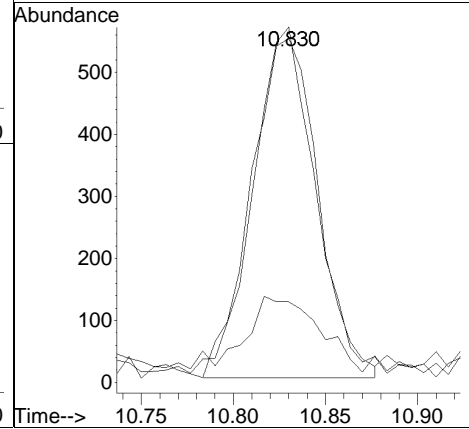
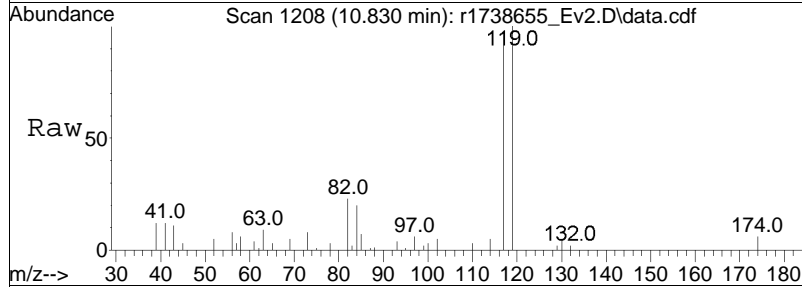
Quant Time: Feb 16 08:13:55 2024
Quant Method : O:\Forensics\Data\Airlab17\2024\02\0215SIM\TSIM17_240107.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Mon Jan 08 15:36:14 2024
Response via : Initial Calibration

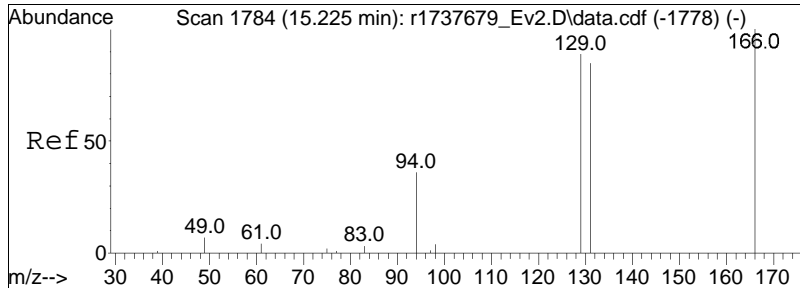




#38
 carbon tetrachloride
 Concen: 0.08 ppbV
 RT: 10.830 min Scan# 1208
 Delta R.T. 0.013 min
 Lab File: r1738655_Ev2.D
 Acq: 15 Feb 2024 9:39 PM

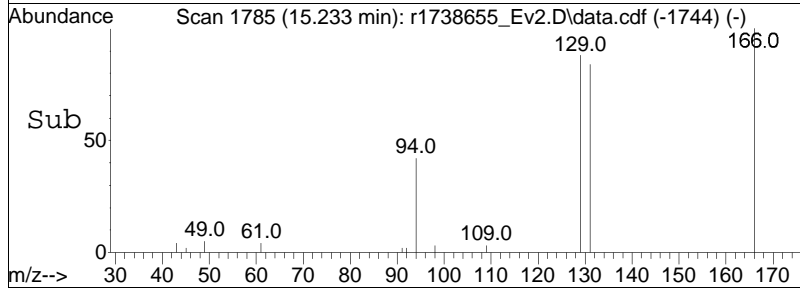
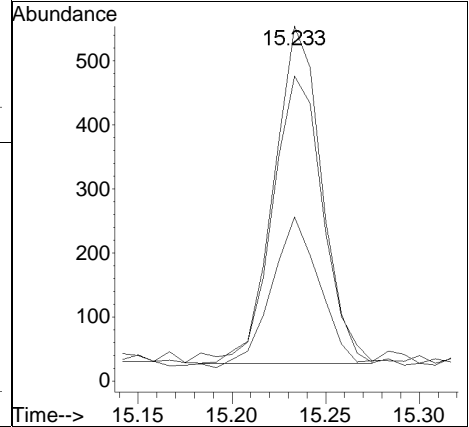
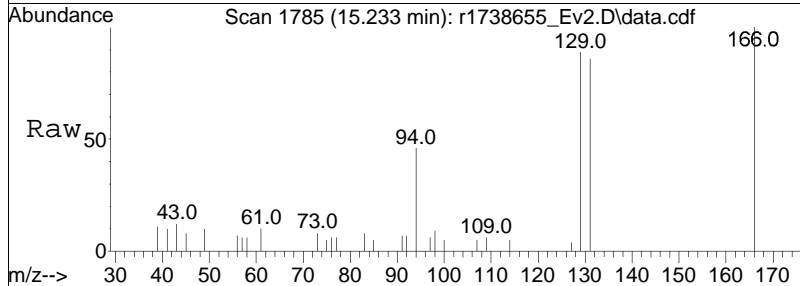
Tgt Ion	Ratio	Resp	Lower	Upper
117	100	1381		
119	103.2	73.0	109.4	
82	23.4	16.8	25.2	





#57
 tetrachloroethene
 Concen: 0.05 ppbV
 RT: 15.233 min Scan# 1785
 Delta R.T. 0.008 min
 Lab File: r1738655_Ev2.D
 Acq: 15 Feb 2024 9:39 PM

Tgt Ion	Ratio	Lower	Upper
166	100		
131	85.9	68.3	102.5
94	46.2	28.9	43.3#



Manual Integration Report

Data Path : O:\Forensics\Data\Airlab17QMethod : TSIM17_240107.M
Data File : r1738655_Ev2.D Operator : AIRLAB17:JMB
Date Inj'd : 2/15/2020 0:9: 9 Instrument :
Sample : L2407645-02,3,250,250 Quant Date : 2/16/2024 8:13 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab17\2024\02\0215SIM\
 Data File : r1738657_Ev2.D
 Acq On : 15 Feb 2024 10:57 PM
 Operator : AIRLAB17:JMB
 Sample : L2407645-03,3,250,250
 Misc : WG1885733,ICAL20745
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 16 08:14:12 2024
 Quant Method : O:\Forensics\Data\Airlab17\2024\02\0215SIM\TSIM17_240107.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Mon Jan 08 15:36:14 2024
 Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab17\2024\02\0215SIM\r1738650_Ev2.D
 Sub List : 7-NY-SIM - .

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	8.850	49	218397	10.000	ppbV	0.02
Standard Area =	214398		Recovery =	101.87%		
33) 1,4-difluorobenzene	11.090	114	615735	10.000	ppbV	0.02
Standard Area =	619357		Recovery =	99.42%		
51) chlorobenzene-D5	15.842	54	81977	10.000	ppbV	0.02
Standard Area =	82380		Recovery =	99.51%		

System Monitoring Compounds

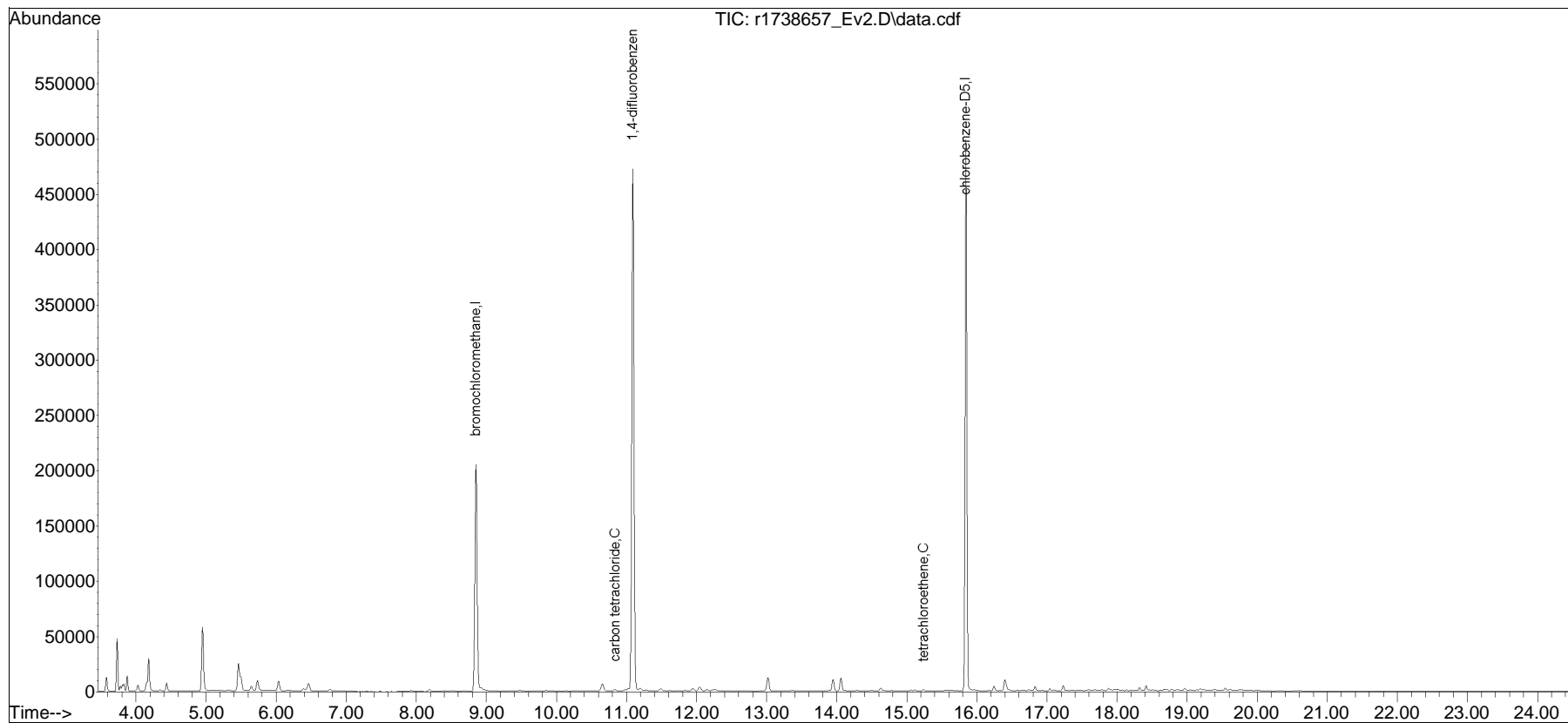
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
6) vinyl chloride	0.000		0		N.D.	
17) 1,1-dichloroethene	0.000		0		N.D.	
28) cis-1,2-dichloroethene	0.000		0		N.D.	
36) 1,1,1-trichloroethane	0.000		0		N.D.	
38) carbon tetrachloride	10.837	117	1381	0.081	ppbV	96
44) trichloroethene	11.903		0		N.D.	
57) tetrachloroethene	15.242	166	714	0.037	ppbV #	88

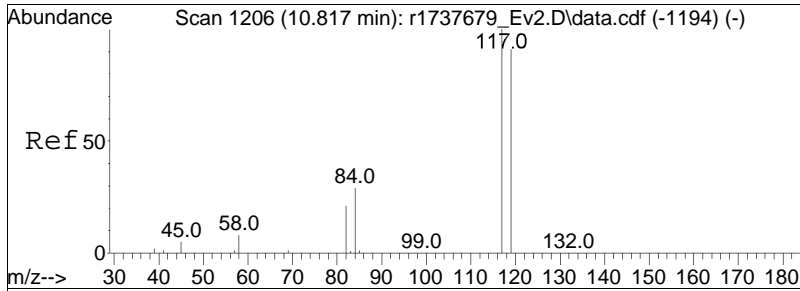
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sub List : 7-NY-SIM - .\Data\Airlab17\2024\02\0215SIM\r1738650_Ev2.D

Data Path : O:\Forensics\Data\Airlab17\2024\02\0215SIM\
Data File : r1738657_Ev2.D
Acq On : 15 Feb 2024 10:57 PM
Operator : AIRLAB17:JMB
Sample : L2407645-03,3,250,250
Misc : WG1885733,ICAL20745
ALS Vial : 0 Sample Multiplier: 1

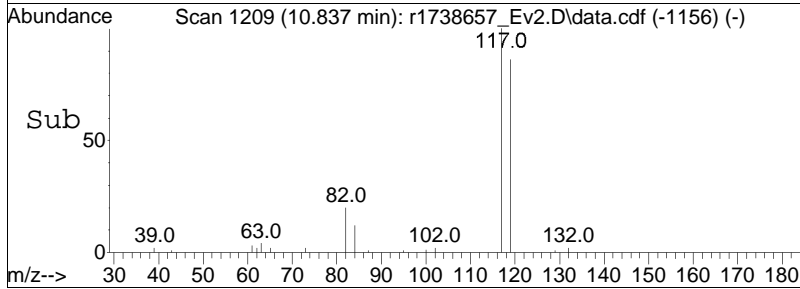
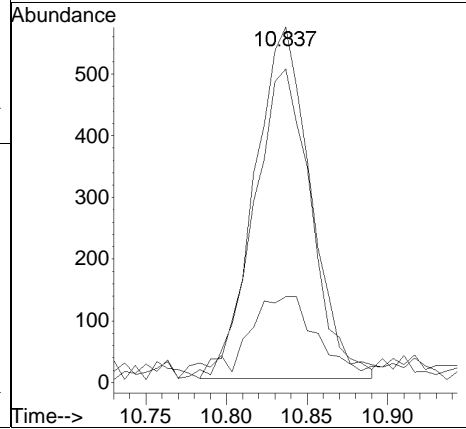
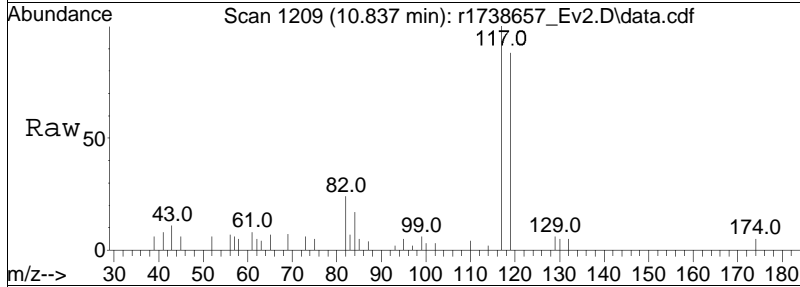
Quant Time: Feb 16 08:14:12 2024
Quant Method : O:\Forensics\Data\Airlab17\2024\02\0215SIM\TSIM17_240107.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Mon Jan 08 15:36:14 2024
Response via : Initial Calibration

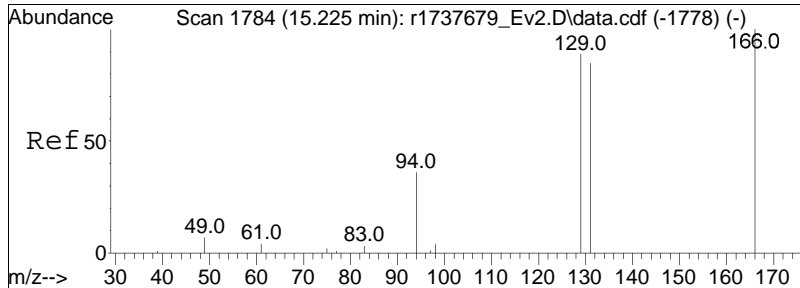




#38
 carbon tetrachloride
 Concen: 0.08 ppbV
 RT: 10.837 min Scan# 1209
 Delta R.T. 0.020 min
 Lab File: r1738657_Ev2.D
 Acq: 15 Feb 2024 10:57 PM

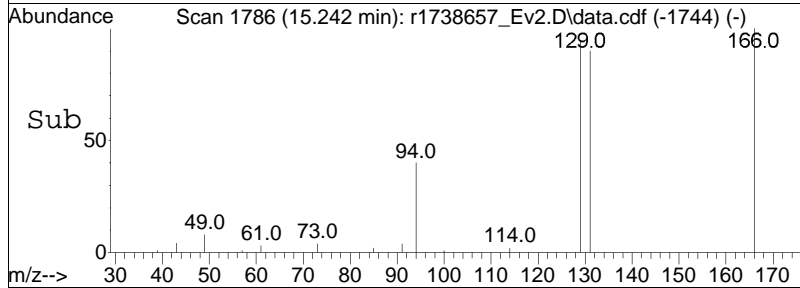
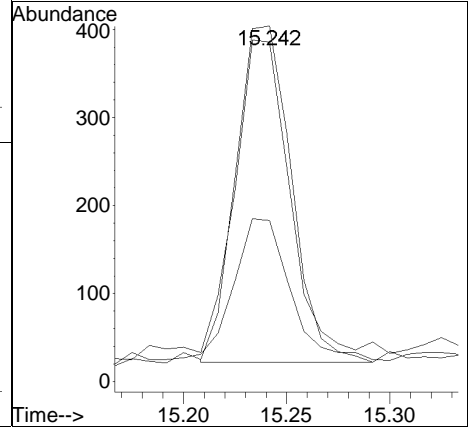
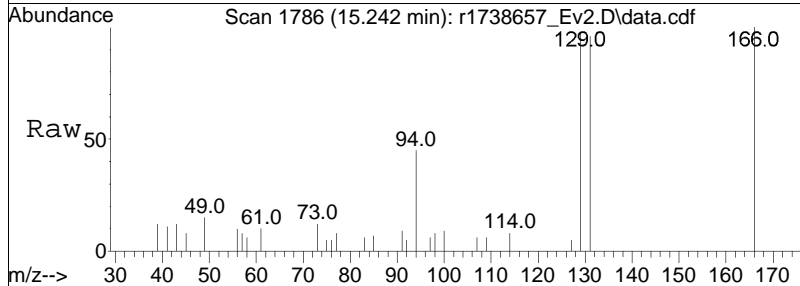
Tgt Ion	Ratio	Resp	Lower	Upper
117	100	1381		
119	88.2	73.0	109.4	
82	24.1	16.8	25.2	





#57
 tetrachloroethene
 Concen: 0.04 ppbV
 RT: 15.242 min Scan# 1786
 Delta R.T. 0.017 min
 Lab File: r1738657_Ev2.D
 Acq: 15 Feb 2024 10:57 PM

Tgt Ion	Ratio	Lower	Upper
166	100		
131	95.5	68.3	102.5
94	45.3	28.9	43.3#



Manual Integration Report

Data Path : O:\Forensics\Data\Airlab17QMethod : TSIM17_240107.M
Data File : r1738657_Ev2.D Operator : AIRLAB17:JMB
Date Inj'd : 2/15/2020 0:0: 7 Instrument :
Sample : L2407645-03,3,250,250 Quant Date : 2/16/2024 8:14 am

There are no manual integrations or false positives in this file.

Volatiles Standards Data

Initial Calibration

Initial Calibration Summary

Form 6

Air Volatiles

Client : TRC Environmental Corp
Project Name : K710 IAQ
Instrument ID : AIRLAB17
Calibration dates : 01/07/24 20:20 01/08/24 02:14

Lab Number : L2407645
Project Number : 457205
Ical Ref : ICAL20745

Calibration Files

0.02=r1737673_Ev2.D 0.05=r1737674_Ev2.D 0.1 =r1737675_Ev2.D 0.2 =r1737676_Ev2.D 0.5 =r1737677_Ev2.D
 1.0 =r1737678_Ev2.D 5.0 =r1737679_Ev2.D 10.0=r1737680_Ev2.D 20.0=r1737681_Ev2.D 50.0=r1737682_Ev2.D

Compound	0.02	0.05	0.1	0.2	0.5	1.0	5.0	10.0	20.0	50.0	Avg	%RSD
1) I bromochloromethane	-----ISTD-----											
2) propylene					0.644	0.563	0.456	0.422	0.417	0.394	0.483	20.53
3) dichlorodifluoromethane				1.138	1.063	1.054	1.052	1.025	0.987	0.904	1.032	7.05
4) C chloromethane				0.568	0.520	0.526	0.522	0.520	0.499	0.465	0.517	5.98
5) Freon-114		1.311	1.268	1.404	1.306	1.297	1.287	1.274	1.207	1.075	1.270	7.04
6) C vinyl chloride	0.493	0.595	0.543	0.607	0.559	0.549	0.545	0.543	0.528	0.495	0.546	6.71
7) C 1,3-butadiene	0.425	0.440	0.434	0.498	0.459	0.461	0.452	0.453	0.443	0.406	0.447	5.46
8) C bromomethane	0.460	0.496	0.487	0.520	0.481	0.475	0.472	0.472	0.463	0.430	0.476	4.95
9) C chloroethane		0.245	0.255	0.279	0.255	0.252	0.246	0.247	0.242	0.228	0.250	5.37
10) ethanol						0.514	0.438	0.395	0.403	0.354	0.421	14.34
11) C vinyl bromide		0.506	0.478	0.481	0.489	0.481	0.471	0.470	0.471	0.438	0.476	3.81
12) C acrolein		0.440	0.289	0.280	0.259	0.243	0.232	0.233	0.250	0.237	0.274	23.92
13) acetone				0.787	0.706	0.698	0.603	0.600	0.603	0.546	0.649	12.92
14) trichlorofluoromethane		0.949	0.999	0.934	0.865	0.854	0.854	0.850	0.833	0.767	0.879	7.98
15) isopropyl alcohol				0.901	0.836	0.842	0.834	0.836	0.843	0.768	0.837	4.60
16) C acrylonitrile				0.545	0.459	0.469	0.439	0.449	0.472	0.450	0.469	7.58
17) C 1,1-dichloroethene	0.629	0.748	0.683	0.763	0.710	0.708	0.699	0.698	0.698	0.644	0.698	5.85
18) tertiary butyl alcohol					0.993	0.977	0.915	0.911	0.959	0.907	0.944	3.96
19) C methylene chloride					0.693	0.671	0.650	0.648	0.740	0.680	0.680	4.98
20) C 3-chloropropene		0.769	0.697	0.786	0.738	0.744	0.746	0.749	0.749	0.688	0.741	4.19
21) C carbon disulfide				1.940	1.769	1.767	1.798	1.813	1.810	1.640	1.791	4.93
22) Freon 113		1.140	1.103	1.193	1.092	1.091	1.085	1.080	1.052	0.958	1.088	5.84
23) trans-1,2-dichloroethene	0.594	0.731	0.724	0.789	0.733	0.737	0.728	0.729	0.725	0.672	0.716	7.15
24) C 1,1-dichloroethane	0.834	0.873	0.912	1.012	0.928	0.927	0.926	0.926	0.910	0.836	0.909	5.70
25) C MTBE	1.073	1.257	1.278	1.491	1.392	1.382	1.363	1.365	1.360	1.264	1.323	8.50
26) C vinyl acetate					1.256	1.266	1.234	1.260	1.291	1.194	1.250	2.65
27) C 2-butanone					1.260	1.253	1.248	1.265	1.259	1.169	1.242	2.92
28) cis-1,2-dichloroethene	0.617	0.703	0.706	0.767	0.701	0.686	0.692	0.693	0.682	0.630	0.688	6.04
29) Ethyl Acetate					0.178	0.173	0.176	0.178	0.179	0.170	0.176	2.03
30) C chloroform	0.925	1.028	1.011	1.125	1.024	1.011	1.003	1.001	0.982	0.904	1.001	6.00
31) Tetrahydrofuran					0.697	0.693	0.705	0.710	0.711	0.663	0.697	2.59
32) C 1,2-dichloroethane	0.627	0.559	0.533	0.676	0.580	0.558	0.543	0.543	0.527	0.485	0.563	9.60
33) I 1,4-difluorobenzene	-----ISTD-----											
34) C hexane				0.333	0.307	0.306	0.299	0.300	0.302	0.285	0.305	4.79
35) s 1,2-dichloroethane-D4				0.292	0.285	0.295	0.291	0.286	0.286	0.280	0.288	1.77
36) C 1,1,1-trichloroethane	0.259	0.268	0.273	0.302	0.279	0.280	0.280	0.284	0.307	0.281	0.281	5.08



Initial Calibration Summary

Form 6

Air Volatiles

Client : TRC Environmental Corp
Project Name : K710 IAQ
Instrument ID : AIRLAB17
Calibration dates : 01/07/24 20:20 01/08/24 02:14

Lab Number : L2407645
Project Number : 457205
Ical Ref : ICAL20745

Calibration Files

0.02=r1737673_Ev2.D 0.05=r1737674_Ev2.D 0.1 =r1737675_Ev2.D 0.2 =r1737676_Ev2.D 0.5 =r1737677_Ev2.D
 1.0 =r1737678_Ev2.D 5.0 =r1737679_Ev2.D 10.0=r1737680_Ev2.D 20.0=r1737681_Ev2.D 50.0=r1737682_Ev2.D

Compound	0.02	0.05	0.1	0.2	0.5	1.0	5.0	10.0	20.0	50.0	Avg	%RSD
37) C benzene		0.834	0.799	0.800	0.729	0.729	0.721	0.728	0.717	0.665	0.747	7.09
38) C carbon tetrachloride	0.255	0.283	0.279	0.297	0.271	0.267	0.277	0.285	0.288	0.274	0.277	4.32
39) cyclohexane				0.370	0.340	0.330	0.322	0.323	0.327	0.310	0.332	5.72
40) Dibromomethane		0.243	0.234	0.226	0.206	0.203	0.191	0.194	0.204	0.192	0.210	9.12
41) C 1,2-dichloropropane	0.273	0.244	0.235	0.250	0.223	0.221	0.220	0.223	0.220	0.207	0.232	8.31
42) bromodichloromethane	0.286	0.348	0.315	0.340	0.327	0.327	0.337	0.347	0.355	0.339	0.332	6.00
43) C 1,4-dioxane			0.144	0.150	0.139	0.136	0.138	0.140	0.143	0.138	0.141	3.26
44) C trichloroethene	0.254	0.303	0.273	0.319	0.295	0.296	0.296	0.300	0.298	0.282	0.291	6.17
45) C 2,2,4-trimethylpentane				1.206	1.118	1.105	0.958	0.961	0.968	0.902	1.031	10.81
46) heptane				0.460	0.437	0.446	0.434	0.441	0.439	0.405	0.437	3.84
47) C cis-1,3-dichloropropene	0.310	0.320	0.315	0.359	0.347	0.349	0.362	0.371	0.370	0.349	0.345	6.52
48) C 4-methyl-2-pentanone					0.519	0.512	0.520	0.530	0.537	0.498	0.519	2.64
49) trans-1,3-dichloropropene	0.221	0.237	0.239	0.278	0.266	0.267	0.285	0.295	0.296	0.283	0.267	9.74
50) C 1,1,2-trichloroethane	0.255	0.226	0.242	0.271	0.255	0.254	0.254	0.257	0.255	0.237	0.251	4.97
51) I chlorobenzene-D5	-----ISTD-----											
52) C toluene			6.421	6.535	6.153	6.104	6.033	6.031	5.946	5.428	6.081	5.48
53) s toluene-D8				8.106	7.990	8.274	8.111	7.978	7.963	7.765	8.027	1.97
54) 2-hexanone				3.223	3.357	3.568	3.791	3.905	3.953	3.613	3.630	7.55
55) dibromochloromethane	2.296	2.321	2.204	2.590	2.431	2.489	2.667	2.795	2.871	2.700	2.536	8.85
56) C 1,2-dibromoethane	2.525	2.899	2.896	3.368	3.191	3.191	3.225	3.254	3.189	2.905	3.064	8.24
57) C tetrachloroethene	2.313	2.353	2.487	2.575	2.364	2.357	2.325	2.327	2.275	2.110	2.349	5.23
58) 1,1,1,2-tetrachloroethane	1.782	2.033	2.045	2.198	2.140	2.181	2.090	2.144	2.277	2.114	2.100	6.35
59) C chlorobenzene	4.776	4.872	5.159	5.739	5.413	5.399	5.364	5.374	5.224	4.779	5.210	6.06
60) C ethylbenzene	6.542	7.181	7.377	8.193	7.607	7.623	7.681	7.803	7.557	6.872	7.444	6.38
61) C m+p-xylene	5.419	5.658	5.855	6.459	6.031	6.070	6.013	6.175	5.949	5.402	5.903	5.62
62) C bromoform	1.547	1.508	1.406	1.616	1.597	1.667	1.902	2.031	2.155	2.076	1.751	15.23
63) C styrene	3.871	4.269	4.650	5.307	5.045	5.127	5.243	5.359	5.191	4.724	4.879	10.13
64) C 1,1,2,2-tetrachloroethane	3.748	4.056	4.226	4.823	4.585	4.559	4.525	4.564	4.465	4.124	4.368	7.34
65) C o-xylene	5.475	5.779	5.897	6.482	6.154	6.131	6.099	6.177	5.965	5.408	5.957	5.54
66) 1,2,3-Trichloropropane	3.201	3.272	3.369	3.904	3.615	3.632	3.349	3.367	3.558	3.312	3.458	6.20
67) s bromofluorobenzene				4.841	4.828	5.084	5.004	4.983	4.964	4.713	4.917	2.59
68) C isopropylbenzene				8.935	8.450	8.394	7.802	7.763	8.042	7.220	8.086	6.93
69) Bromobenzene	3.871	3.971	4.181	4.793	4.661	4.613	4.296	4.311	4.570	4.205	4.347	7.02
70) 4-ethyl toluene	6.123	7.537	7.869	9.011	8.485	8.554	8.342	8.351	8.247	7.434	7.995	10.16
71) 1,3,5-trimethylbenzene	6.000	6.439	6.624	7.767	7.461	7.367	7.262	7.220	6.949	6.266	6.935	8.34
72) tert-butylbenzene				7.956	7.478	7.450	6.885	6.814	7.100	6.488	7.167	6.90



Initial Calibration Summary

Form 6

Air Volatiles

Client : TRC Environmental Corp
Project Name : K710 IAQ
Instrument ID : AIRLAB17
Calibration dates : 01/07/24 20:20 01/08/24 02:14

Lab Number : L2407645
Project Number : 457205
Ical Ref : ICAL20745

Calibration Files

0.02=r1737673_Ev2.D 0.05=r1737674_Ev2.D 0.1 =r1737675_Ev2.D 0.2 =r1737676_Ev2.D 0.5 =r1737677_Ev2.D
 1.0 =r1737678_Ev2.D 5.0 =r1737679_Ev2.D 10.0=r1737680_Ev2.D 20.0=r1737681_Ev2.D 50.0=r1737682_Ev2.D

Compound	0.02	0.05	0.1	0.2	0.5	1.0	5.0	10.0	20.0	50.0	Avg	%RSD
73) 1,2,4-trimethylbenzene	5.681	6.297	6.791	7.683	7.371	7.350	7.313	7.239	6.988	6.193	6.891	9.29
74) C Benzyl Chloride			2.600	3.076	3.183	3.418	3.792	4.168	4.567	4.545	3.668	19.63
75) 1,3-dichlorobenzene	3.100	3.529	3.749	4.362	4.111	4.278	4.323	4.416	4.266	4.063	4.020	10.69
76) C 1,4-dichlorobenzene	2.883	3.265	3.682	4.230	3.917	4.036	4.205	4.326	4.237	3.936	3.872	12.16
77) sec-butylbenzene				1.143	1.072	1.077	0.975	0.970	0.998	0.902	1.020	7.98
78) p-isopropyltoluene				9.424	8.969	8.994	8.189	8.199	8.488	7.776	8.577	6.71
79) 1,2-dichlorobenzene	3.452	3.504	3.704	4.226	4.018	4.070	4.015	4.129	4.026	3.802	3.895	6.82
80) n-butylbenzene				7.811	7.590	7.753	7.058	7.113	7.504	6.941	7.396	4.78
81) 1,2-dibromo-3-chloropr...	0.911	1.187	1.315	1.477	1.532	1.649	1.533	1.639	1.817	1.777	1.484	18.78
82) C 1,2,4-trichlorobenzene		1.881	2.038	2.131	2.313	2.479	2.637	2.940	2.832	2.908	2.462	16.02
83) naphthalene		7.115	6.791	7.395	7.331	7.923	6.796	7.429	8.181	8.402	7.485	7.68
84) 1,2,3-trichlorobenzene		1.824	1.997	2.012	2.225	2.342	1.970	2.224	2.453	2.586	2.182	11.48
85) C hexachlorobutadiene		2.452	2.535	2.520	2.577	2.551	2.576	2.668	2.448	2.389	2.524	3.33



Response Factor Report

Method Path : O:\Forensics\Data\Airlab17\2024\01\0107SIM_I\
 Method File : TSIM17_240107.M
 Title : TO-14A/TO-15 SIM/Full Scan Analysis
 Last Update : Mon Jan 08 15:36:12 2024
 Response Via : Initial Calibration

Calibration Files

0.02=r1737673_Ev2.D 0.05=r1737674_Ev2.D 0.1 =r1737675_Ev2.D 0.2 =r1737676_Ev2.D 0.5 =r1737677_Ev2.D
 1.0 =r1737678_Ev2.D 5.0 =r1737679_Ev2.D 10.0=r1737680_Ev2.D 20.0=r1737681_Ev2.D 50.0=r1737682_Ev2.D

Compound	0.02	0.05	0.1	0.2	0.5	1.0	5.0	10.0	20.0	50.0	Avg	%RSD
1) I bromochloromethane	-----ISTD-----											
2) propylene					0.644	0.563	0.456	0.422	0.417	0.394	0.483	20.53
3) dichlorodifluo...				1.138	1.063	1.054	1.052	1.025	0.987	0.904	1.032	7.05
4) C chloromethane				0.568	0.520	0.526	0.522	0.520	0.499	0.465	0.517	5.98
5) Freon-114		1.311	1.268	1.404	1.306	1.297	1.287	1.274	1.207	1.075	1.270	7.04
6) C vinyl chloride	0.493	0.595	0.543	0.607	0.559	0.549	0.545	0.543	0.528	0.495	0.546	6.71
7) C 1,3-butadiene	0.425	0.440	0.434	0.498	0.459	0.461	0.452	0.453	0.443	0.406	0.447	5.46
8) C bromomethane	0.460	0.496	0.487	0.520	0.481	0.475	0.472	0.472	0.463	0.430	0.476	4.95
9) C chloroethane		0.245	0.255	0.279	0.255	0.252	0.246	0.247	0.242	0.228	0.250	5.37
10) ethanol						0.514	0.438	0.395	0.403	0.354	0.421	14.34
11) C vinyl bromide		0.506	0.478	0.481	0.489	0.481	0.471	0.470	0.471	0.438	0.476	3.81
12) C acrolein		0.440	0.289	0.280	0.259	0.243	0.232	0.233	0.250	0.237	0.274	23.92
13) acetone				0.787	0.706	0.698	0.603	0.600	0.603	0.546	0.649	12.92
14) trichlorofluor...		0.949	0.999	0.934	0.865	0.854	0.854	0.850	0.833	0.767	0.879	7.98
15) isopropyl alcohol				0.901	0.836	0.842	0.834	0.836	0.843	0.768	0.837	4.60
16) C acrylonitrile				0.545	0.459	0.469	0.439	0.449	0.472	0.450	0.469	7.58

Response Factor Report

Method Path : O:\Forensics\Data\Airlab17\2024\01\0107SIM_I\
 Method File : TSIM17_240107.M
 Title : TO-14A/TO-15 SIM/Full Scan Analysis
 Last Update : Mon Jan 08 15:36:12 2024
 Response Via : Initial Calibration

Calibration Files

0.02=r1737673_Ev2.D 0.05=r1737674_Ev2.D 0.1 =r1737675_Ev2.D 0.2 =r1737676_Ev2.D 0.5 =r1737677_Ev2.D
 1.0 =r1737678_Ev2.D 5.0 =r1737679_Ev2.D 10.0=r1737680_Ev2.D 20.0=r1737681_Ev2.D 50.0=r1737682_Ev2.D

Compound	0.02	0.05	0.1	0.2	0.5	1.0	5.0	10.0	20.0	50.0	Avg	%RSD
17) C 1,1-dichloroet...	0.629	0.748	0.683	0.763	0.710	0.708	0.699	0.698	0.698	0.644	0.698	5.85
18) tertiary butyl...					0.993	0.977	0.915	0.911	0.959	0.907	0.944	3.96
19) C methylene chlo...					0.693	0.671	0.650	0.648	0.740	0.680	0.680	4.98
20) C 3-chloropropene		0.769	0.697	0.786	0.738	0.744	0.746	0.749	0.749	0.688	0.741	4.19
21) C carbon disulfide				1.940	1.769	1.767	1.798	1.813	1.810	1.640	1.791	4.93
22) Freon 113		1.140	1.103	1.193	1.092	1.091	1.085	1.080	1.052	0.958	1.088	5.84
23) trans-1,2-dich...	0.594	0.731	0.724	0.789	0.733	0.737	0.728	0.729	0.725	0.672	0.716	7.15
24) C 1,1-dichloroet...	0.834	0.873	0.912	1.012	0.928	0.927	0.926	0.926	0.910	0.836	0.909	5.70
25) C MTBE	1.073	1.257	1.278	1.491	1.392	1.382	1.363	1.365	1.360	1.264	1.323	8.50
26) C vinyl acetate					1.256	1.266	1.234	1.260	1.291	1.194	1.250	2.65
27) C 2-butanone					1.260	1.253	1.248	1.265	1.259	1.169	1.242	2.92
28) cis-1,2-dichlo...	0.617	0.703	0.706	0.767	0.701	0.686	0.692	0.693	0.682	0.630	0.688	6.04
29) Ethyl Acetate					0.178	0.173	0.176	0.178	0.179	0.170	0.176	2.03
30) C chloroform	0.925	1.028	1.011	1.125	1.024	1.011	1.003	1.001	0.982	0.904	1.001	6.00
31) Tetrahydrofuran					0.697	0.693	0.705	0.710	0.711	0.663	0.697	2.59
32) C 1,2-dichloroet...	0.627	0.559	0.533	0.676	0.580	0.558	0.543	0.543	0.527	0.485	0.563	9.60

Response Factor Report

Method Path : O:\Forensics\Data\Airlab17\2024\01\0107SIM_I\
 Method File : TSIM17_240107.M
 Title : TO-14A/TO-15 SIM/Full Scan Analysis
 Last Update : Mon Jan 08 15:36:12 2024
 Response Via : Initial Calibration

Calibration Files

0.02=r1737673_Ev2.D 0.05=r1737674_Ev2.D 0.1 =r1737675_Ev2.D 0.2 =r1737676_Ev2.D 0.5 =r1737677_Ev2.D
 1.0 =r1737678_Ev2.D 5.0 =r1737679_Ev2.D 10.0=r1737680_Ev2.D 20.0=r1737681_Ev2.D 50.0=r1737682_Ev2.D

Compound	0.02	0.05	0.1	0.2	0.5	1.0	5.0	10.0	20.0	50.0	Avg	%RSD
33) I 1,4-difluorobenzene	-----ISTD-----											
34) C hexane				0.333	0.307	0.306	0.299	0.300	0.302	0.285	0.305	4.79
35) s 1,2-dichloroet...				0.292	0.285	0.295	0.291	0.286	0.286	0.280	0.288	1.77
36) C 1,1,1-trichlor...	0.259	0.268	0.273	0.302	0.279	0.280	0.280	0.284	0.307	0.281	0.281	5.08
37) C benzene		0.834	0.799	0.800	0.729	0.729	0.721	0.728	0.717	0.665	0.747	7.09
38) C carbon tetrach...	0.255	0.283	0.279	0.297	0.271	0.267	0.277	0.285	0.288	0.274	0.277	4.32
39) cyclohexane				0.370	0.340	0.330	0.322	0.323	0.327	0.310	0.332	5.72
40) Dibromomethane		0.243	0.234	0.226	0.206	0.203	0.191	0.194	0.204	0.192	0.210	9.12
41) C 1,2-dichloropr...	0.273	0.244	0.235	0.250	0.223	0.221	0.220	0.223	0.220	0.207	0.232	8.31
42) bromodichlorom...	0.286	0.348	0.315	0.340	0.327	0.327	0.337	0.347	0.355	0.339	0.332	6.00
43) C 1,4-dioxane			0.144	0.150	0.139	0.136	0.138	0.140	0.143	0.138	0.141	3.26
44) C trichloroethene	0.254	0.303	0.273	0.319	0.295	0.296	0.296	0.300	0.298	0.282	0.291	6.17
45) C 2,2,4-trimethy...				1.206	1.118	1.105	0.958	0.961	0.968	0.902	1.031	10.81
46) heptane				0.460	0.437	0.446	0.434	0.441	0.439	0.405	0.437	3.84
47) C cis-1,3-dichlo...	0.310	0.320	0.315	0.359	0.347	0.349	0.362	0.371	0.370	0.349	0.345	6.52
48) C 4-methyl-2-pen...					0.519	0.512	0.520	0.530	0.537	0.498	0.519	2.64

Response Factor Report

Method Path : O:\Forensics\Data\Airlab17\2024\01\0107SIM_I\
 Method File : TSIM17_240107.M
 Title : TO-14A/TO-15 SIM/Full Scan Analysis
 Last Update : Mon Jan 08 15:36:12 2024
 Response Via : Initial Calibration

Calibration Files

0.02=r1737673_Ev2.D 0.05=r1737674_Ev2.D 0.1 =r1737675_Ev2.D 0.2 =r1737676_Ev2.D 0.5 =r1737677_Ev2.D
 1.0 =r1737678_Ev2.D 5.0 =r1737679_Ev2.D 10.0=r1737680_Ev2.D 20.0=r1737681_Ev2.D 50.0=r1737682_Ev2.D

Compound		0.02	0.05	0.1	0.2	0.5	1.0	5.0	10.0	20.0	50.0	Avg	%RSD
49)	trans-1,3-dich...	0.221	0.237	0.239	0.278	0.266	0.267	0.285	0.295	0.296	0.283	0.267	9.74
50) C	1,1,2-trichlor...	0.255	0.226	0.242	0.271	0.255	0.254	0.254	0.257	0.255	0.237	0.251	4.97
51) I	chlorobenzene-D5	-----ISTD-----											
52) C	toluene			6.421	6.535	6.153	6.104	6.033	6.031	5.946	5.428	6.081	5.48
53) s	toluene-D8				8.106	7.990	8.274	8.111	7.978	7.963	7.765	8.027	1.97
54)	2-hexanone				3.223	3.357	3.568	3.791	3.905	3.953	3.613	3.630	7.55
55)	dibromochlorom...	2.296	2.321	2.204	2.590	2.431	2.489	2.667	2.795	2.871	2.700	2.536	8.85
56) C	1,2-dibromoethane	2.525	2.899	2.896	3.368	3.191	3.191	3.225	3.254	3.189	2.905	3.064	8.24
57) C	tetrachloroethene	2.313	2.353	2.487	2.575	2.364	2.357	2.325	2.327	2.275	2.110	2.349	5.23
58)	1,1,1,2-tetrac...	1.782	2.033	2.045	2.198	2.140	2.181	2.090	2.144	2.277	2.114	2.100	6.35
59) C	chlorobenzene	4.776	4.872	5.159	5.739	5.413	5.399	5.364	5.374	5.224	4.779	5.210	6.06
60) C	ethylbenzene	6.542	7.181	7.377	8.193	7.607	7.623	7.681	7.803	7.557	6.872	7.444	6.38
61) C	m+p-xylene	5.419	5.658	5.855	6.459	6.031	6.070	6.013	6.175	5.949	5.402	5.903	5.62
62) C	bromoform	1.547	1.508	1.406	1.616	1.597	1.667	1.902	2.031	2.155	2.076	1.751	15.23
63) C	styrene	3.871	4.269	4.650	5.307	5.045	5.127	5.243	5.359	5.191	4.724	4.879	10.13
64) C	1,1,2,2-tetrac...	3.748	4.056	4.226	4.823	4.585	4.559	4.525	4.564	4.465	4.124	4.368	7.34

Response Factor Report

Method Path : O:\Forensics\Data\Airlab17\2024\01\0107SIM_I\
 Method File : TSIM17_240107.M
 Title : TO-14A/TO-15 SIM/Full Scan Analysis
 Last Update : Mon Jan 08 15:36:12 2024
 Response Via : Initial Calibration

Calibration Files

0.02=r1737673_Ev2.D 0.05=r1737674_Ev2.D 0.1 =r1737675_Ev2.D 0.2 =r1737676_Ev2.D 0.5 =r1737677_Ev2.D
 1.0 =r1737678_Ev2.D 5.0 =r1737679_Ev2.D 10.0=r1737680_Ev2.D 20.0=r1737681_Ev2.D 50.0=r1737682_Ev2.D

Compound		0.02	0.05	0.1	0.2	0.5	1.0	5.0	10.0	20.0	50.0	Avg	%RSD
65) C	o-xylene	5.475	5.779	5.897	6.482	6.154	6.131	6.099	6.177	5.965	5.408	5.957	5.54
66)	1,2,3-Trichlor...	3.201	3.272	3.369	3.904	3.615	3.632	3.349	3.367	3.558	3.312	3.458	6.20
67) s	bromofluoroben...				4.841	4.828	5.084	5.004	4.983	4.964	4.713	4.917	2.59
68) C	isopropylbenzene				8.935	8.450	8.394	7.802	7.763	8.042	7.220	8.086	6.93
69)	Bromobenzene	3.871	3.971	4.181	4.793	4.661	4.613	4.296	4.311	4.570	4.205	4.347	7.02
70)	4-ethyl toluene	6.123	7.537	7.869	9.011	8.485	8.554	8.342	8.351	8.247	7.434	7.995	10.16
71)	1,3,5-trimethy...	6.000	6.439	6.624	7.767	7.461	7.367	7.262	7.220	6.949	6.266	6.935	8.34
72)	tert-butylbenzene				7.956	7.478	7.450	6.885	6.814	7.100	6.488	7.167	6.90
73)	1,2,4-trimethy...	5.681	6.297	6.791	7.683	7.371	7.350	7.313	7.239	6.988	6.193	6.891	9.29
74) C	Benzyl Chloride			2.600	3.076	3.183	3.418	3.792	4.168	4.567	4.545	3.668	19.63
75)	1,3-dichlorobe...	3.100	3.529	3.749	4.362	4.111	4.278	4.323	4.416	4.266	4.063	4.020	10.69
76) C	1,4-dichlorobe...	2.883	3.265	3.682	4.230	3.917	4.036	4.205	4.326	4.237	3.936	3.872	12.16
77)	sec-butylbenzene				1.143	1.072	1.077	0.975	0.970	0.998	0.902	1.020	7.98
78)	p-isopropyltol...				9.424	8.969	8.994	8.189	8.199	8.488	7.776	8.577	6.71
79)	1,2-dichlorobe...	3.452	3.504	3.704	4.226	4.018	4.070	4.015	4.129	4.026	3.802	3.895	6.82
80)	n-butylbenzene				7.811	7.590	7.753	7.058	7.113	7.504	6.941	7.396	4.78

Response Factor Report

Method Path : O:\Forensics\Data\Airlab17\2024\01\0107SIM_I\
 Method File : TSIM17_240107.M
 Title : TO-14A/TO-15 SIM/Full Scan Analysis
 Last Update : Mon Jan 08 15:36:12 2024
 Response Via : Initial Calibration

Calibration Files

0.02=r1737673_Ev2.D 0.05=r1737674_Ev2.D 0.1 =r1737675_Ev2.D 0.2 =r1737676_Ev2.D 0.5 =r1737677_Ev2.D
 1.0 =r1737678_Ev2.D 5.0 =r1737679_Ev2.D 10.0=r1737680_Ev2.D 20.0=r1737681_Ev2.D 50.0=r1737682_Ev2.D

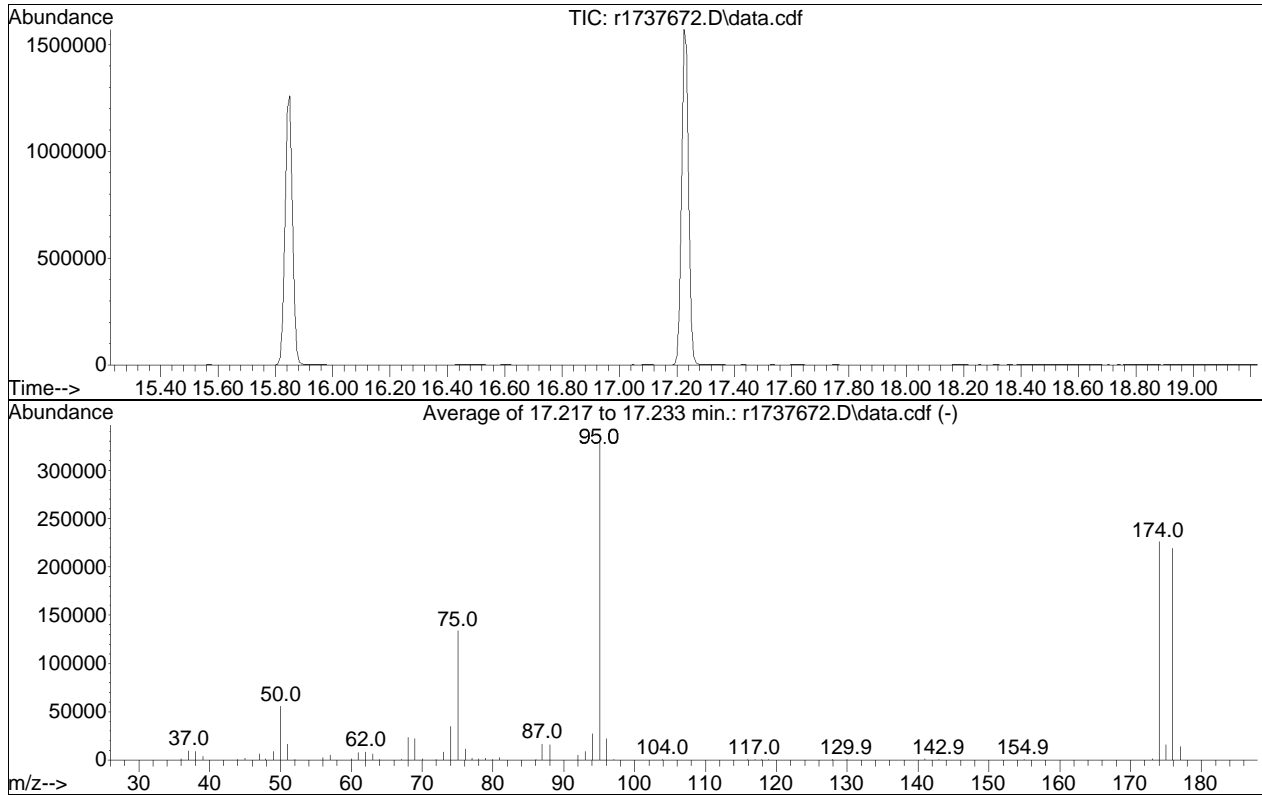
Compound	0.02	0.05	0.1	0.2	0.5	1.0	5.0	10.0	20.0	50.0	Avg	%RSD
81) 1,2-dibromo-3-...	0.911	1.187	1.315	1.477	1.532	1.649	1.533	1.639	1.817	1.777	1.484	18.78
82) C 1,2,4-trichlor...		1.881	2.038	2.131	2.313	2.479	2.637	2.940	2.832	2.908	2.462	16.02
83) naphthalene		7.115	6.791	7.395	7.331	7.923	6.796	7.429	8.181	8.402	7.485	7.68
84) 1,2,3-trichlor...		1.824	1.997	2.012	2.225	2.342	1.970	2.224	2.453	2.586	2.182	11.48
85) C hexachlorobuta...		2.452	2.535	2.520	2.577	2.551	2.576	2.668	2.448	2.389	2.524	3.33

(#) = Out of Range

Data Path : O:\Forensics\Data\Airlab17\2024\01\0107SIM_I\
 Data File : r1737672.D
 Acq On : 7 Jan 2024 7:44 PM
 Operator : AIRLAB17:RAY
 Sample : WG1872081-1,3,250,250
 Misc : WG1872081
 ALS Vial : 0 Sample Multiplier: 1

Integration File: rteint.p

Method : O:\Forensics\Data\Airlab17\2024\01\0107SIM_I\TSIM17_240107.M
 Title : TO-14A/TO-15 SIM/Full Scan Analysis
 Last Update : Mon Jan 08 15:36:12 2024



Spectrum Information: Average of 17.217 to 17.233 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	16.8	55512	PASS
75	95	30	66	40.4	133582	PASS
95	95	100	100	100.0	330622	PASS
96	95	5	9	6.7	22066	PASS
173	174	0.00	2	0.6	1325	PASS
174	95	50	120	68.5	226367	PASS
175	174	4	9	7.0	15800	PASS
176	174	93	101	96.7	218996	PASS
177	176	5	9	6.5	14291	PASS

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab17\2024\01\0107SIM_I\
 Data File : r1737673_Ev2.D
 Acq On : 7 Jan 2024 8:20 PM
 Operator : AIRLAB17:RAY
 Sample : ITO15-SIMSTD0.02
 Misc : WG1872081
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jan 08 15:19:56 2024
 Quant Method : O:\Forensics\Data\Airlab17\2024\01\0107SIM_I\TSIM17_240107.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Mon Jan 08 15:19:42 2024
 Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab17\2024\01\0107SIM_I\r1737679_Ev2.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	8.842	49	243275	10.000	ppbV	0.00
Standard Area =	254708		Recovery =	95.51%		
33) 1,4-difluorobenzene	11.077	114	709106	10.000	ppbV	0.00
Standard Area =	737324		Recovery =	96.17%		
51) chlorobenzene-D5	15.833	54	89505	10.000	ppbV	0.00
Standard Area =	91988		Recovery =	97.30%		
System Monitoring Compounds						
35) 1,2-dichloroethane-D4	9.708	65	163	0.008	ppbV	0.02
Spiked Amount	10.000	Range 70 - 130	Recovery =	0.08%#		
53) toluene-D8	13.933	98	17812	0.245	ppbV	0.00
Spiked Amount	10.000	Range 70 - 130	Recovery =	2.45%#		
67) bromofluorobenzene	17.225	95	7066	0.158	ppbV	0.02
Spiked Amount	10.000	Range 70 - 130	Recovery =	1.58%#		
Target Compounds						
						Qvalue
2) propylene	3.802	41	3143M6	0.283	ppbV	
3) dichlorodifluoromethane	3.874	85	608	0.024	ppbV	97
4) chloromethane	4.024	50	333	0.026	ppbV #	80
5) Freon-114	4.132	85	528	0.017	ppbV	98
6) vinyl chloride	4.246	62	240	0.018	ppbV #	59
7) 1,3-butadiene	4.384	54	207	0.019	ppbV #	18
8) bromomethane	4.648	94	224	0.020	ppbV	83
9) chloroethane	4.822	64	141	0.024	ppbV	90
10) ethanol	4.948	31	6041	0.567	ppbV	99
11) vinyl bromide	5.190	106	283M4	0.025	ppbV	
12) acrolein	5.317	56	329M4	0.058	ppbV	
13) acetone	5.470	43	2444	0.167	ppbV #	99
14) trichlorofluoromethane	5.640	101	344	0.017	ppbV	90
15) isopropyl alcohol	5.737	45	947	0.047	ppbV #	88
16) acrylonitrile	5.967	53	248M4	0.023	ppbV	
17) 1,1-dichloroethene	6.312	61	306	0.018	ppbV #	79
18) tertiary butyl alcohol	6.390	59	556	0.025	ppbV #	78
19) methylene chloride	6.456	49	3891	0.246	ppbV	92
20) 3-chloropropene	6.582	41	411	0.023	ppbV #	74
21) carbon disulfide	6.756	76	996	0.023	ppbV #	1
22) Freon 113	6.762	101	487	0.018	ppbV #	92
23) trans-1,2-dichloroethene	7.492	61	289	0.016	ppbV	96
24) 1,1-dichloroethane	7.708	63	406	0.018	ppbV	93

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab17\2024\01\0107SIM_I\
 Data File : r1737673_Ev2.D
 Acq On : 7 Jan 2024 8:20 PM
 Operator : AIRLAB17:RAY
 Sample : ITO15-SIMSTD0.02
 Misc : WG1872081
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jan 08 15:19:56 2024
 Quant Method : O:\Forensics\Data\Airlab17\2024\01\0107SIM_I\TSIM17_240107.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Mon Jan 08 15:19:42 2024
 Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab17\2024\01\0107SIM_I\r1737679_Ev2.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
25) MTBE	7.817	73	522	0.016	ppbV	#	48
26) vinyl acetate	7.908	43	664	0.022	ppbV	#	81
27) 2-butanone	8.183	43	715	0.024	ppbV	#	92
28) cis-1,2-dichloroethene	8.650	61	300	0.018	ppbV		95
29) Ethyl Acetate	8.950	61	69	0.016	ppbV	#	1
30) chloroform	8.992	83	450	0.018	ppbV	#	88
31) Tetrahydrofuran	9.467	42	303	0.018	ppbV	#	87
32) 1,2-dichloroethane	9.825	62	305	0.023	ppbV	#	73
34) hexane	8.917	57	458	0.022	ppbV	#	18
36) 1,1,1-trichloroethane	10.117	97	367	0.018	ppbV	#	92
37) benzene	10.643	78	1140	0.022	ppbV		98
38) carbon tetrachloride	10.823	117	361	0.018	ppbV	#	92
39) cyclohexane	10.957	56	536M4	0.023	ppbV		
40) Dibromomethane	11.570	93	322	0.024	ppbV	#	86
41) 1,2-dichloropropane	11.597	63	387	0.025	ppbV	#	56
42) bromodichloromethane	11.830	83	406	0.017	ppbV	#	74
43) 1,4-dioxane	11.910	88	202	0.021	ppbV		95
44) trichloroethene	11.890	130	360	0.017	ppbV		89
45) 2,2,4-trimethylpentane	11.943	57	1958	0.029	ppbV	#	93
46) heptane	12.257	43	575	0.019	ppbV	#	87
47) cis-1,3-dichloropropene	12.900	75	440	0.017	ppbV	#	75
48) 4-methyl-2-pentanone	13.000	43	1373	0.037	ppbV	#	77
49) trans-1,3-dichloropropene	13.525	75	314	0.016	ppbV	#	60
50) 1,1,2-trichloroethane	13.725	97	361	0.020	ppbV		95
52) toluene	14.050	91	1160	0.021	ppbV		94
54) 2-hexanone	14.417	43	379	0.011	ppbV	#	93
55) dibromochloromethane	14.500	129	411	0.017	ppbV	#	86
56) 1,2-dibromoethane	14.758	107	452	0.016	ppbV		95
57) tetrachloroethene	15.233	166	414	0.020	ppbV		98
58) 1,1,1,2-tetrachloroethane	15.867	131	319	0.017	ppbV	#	93
59) chlorobenzene	15.875	112	855	0.018	ppbV		88
60) ethylbenzene	16.233	91	1171	0.017	ppbV		93
61) m+p-xylene	16.392	91	1940	0.036	ppbV		96
62) bromoform	16.467	173	277	0.016	ppbV	#	84
63) styrene	16.733	104	693	0.015	ppbV		96
64) 1,1,2,2-tetrachloroethane	16.825	83	671	0.017	ppbV		100
65) o-xylene	16.825	91	980	0.018	ppbV		98
66) 1,2,3-Trichloropropane	16.942	75	573	0.019	ppbV	#	95
68) isopropylbenzene	17.342	105	1211	0.017	ppbV		95
69) Bromobenzene	17.408	77	693	0.018	ppbV		95

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab17\2024\01\0107SIM_I\
 Data File : r1737673_Ev2.D
 Acq On : 7 Jan 2024 8:20 PM
 Operator : AIRLAB17:RAY
 Sample : ITO15-SIMSTD0.02
 Misc : WG1872081
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jan 08 15:19:56 2024
 Quant Method : O:\Forensics\Data\Airlab17\2024\01\0107SIM_I\TSIM17_240107.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Mon Jan 08 15:19:42 2024
 Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab17\2024\01\0107SIM_I\r1737679_Ev2.D
 Sub List : Default - All compounds listed

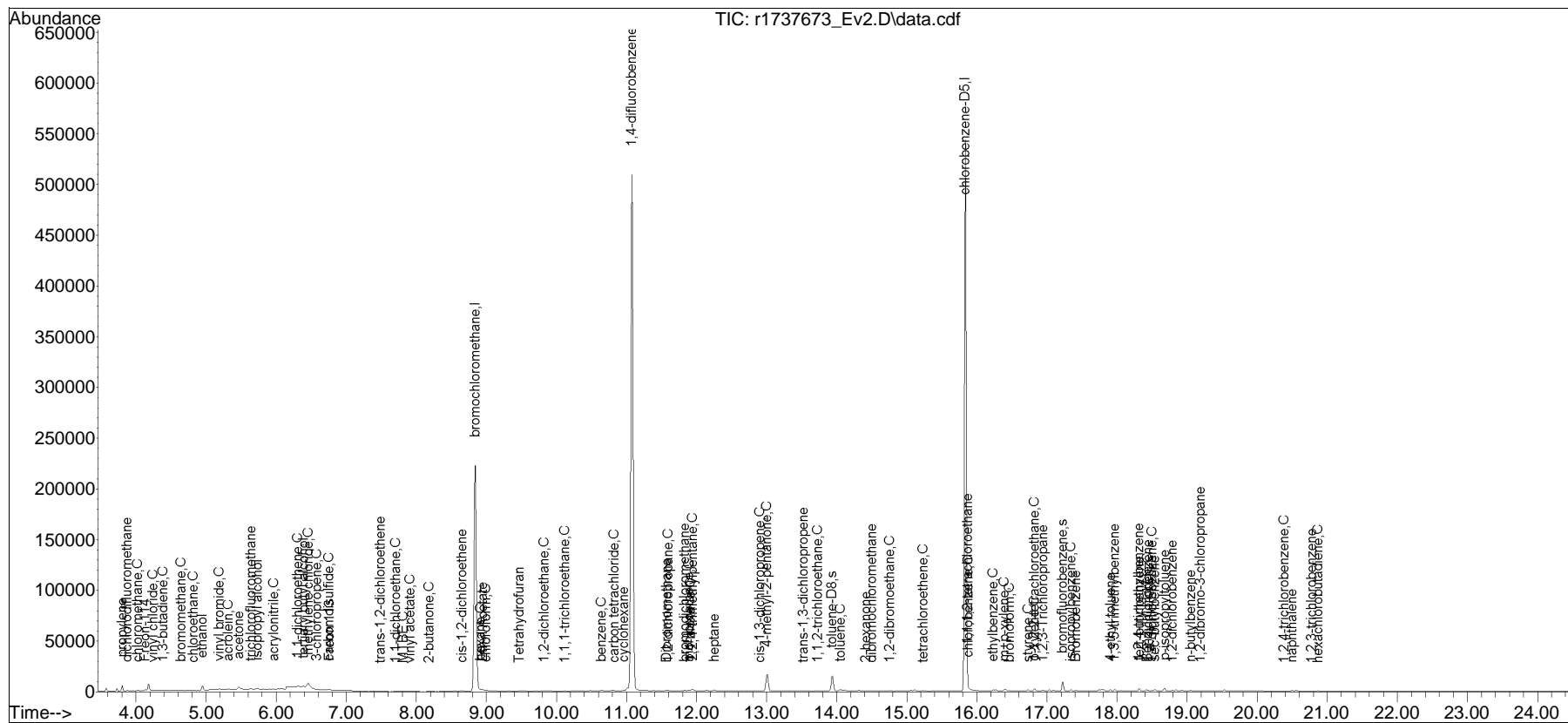
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
70) 4-ethyl toluene	17.908	105	1096	0.015	ppbV	#	94
71) 1,3,5-trimethylbenzene	17.967	105	1074	0.017	ppbV	#	94
72) tert-butylbenzene	18.317	119	1049	0.017	ppbV	#	89
73) 1,2,4-trimethylbenzene	18.308	105	1017	0.016	ppbV		91
74) Benzyl Chloride	18.433	91	386	0.011	ppbV		95
75) 1,3-dichlorobenzene	18.442	146	555	0.014	ppbV	#	83
76) 1,4-dichlorobenzene	18.500	146	516	0.014	ppbV		91
77) sec-butylbenzene	18.542	105	1467	0.017	ppbV		99
78) p-isopropyltoluene	18.683	119	1325	0.018	ppbV		95
79) 1,2-dichlorobenzene	18.792	146	618	0.017	ppbV		96
80) n-butylbenzene	19.050	91	964	0.015	ppbV	#	88
81) 1,2-dibromo-3-chloropr...	19.192	75	163	0.012	ppbV	#	73
82) 1,2,4-trichlorobenzene	20.383	180	319	0.014	ppbV	#	76
83) naphthalene	20.500	128	1758	0.029	ppbV	#	90
84) 1,2,3-trichlorobenzene	20.775	180	295	0.017	ppbV	#	84
85) hexachlorobutadiene	20.867	225	376	0.016	ppbV	#	80

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

Sub List : Default - All compounds listed4\01\0107SIM_I\r1737679_Ev2.D

Data Path : O:\Forensics\Data\Airlab17\2024\01\0107SIM_I\
Data File : r1737673_Ev2.D
Acq On : 7 Jan 2024 8:20 PM
Operator : AIRLAB17:RAY
Sample : ITO15-SIMSTD0.02
Misc : WG1872081
ALS Vial : 0 Sample Multiplier: 1

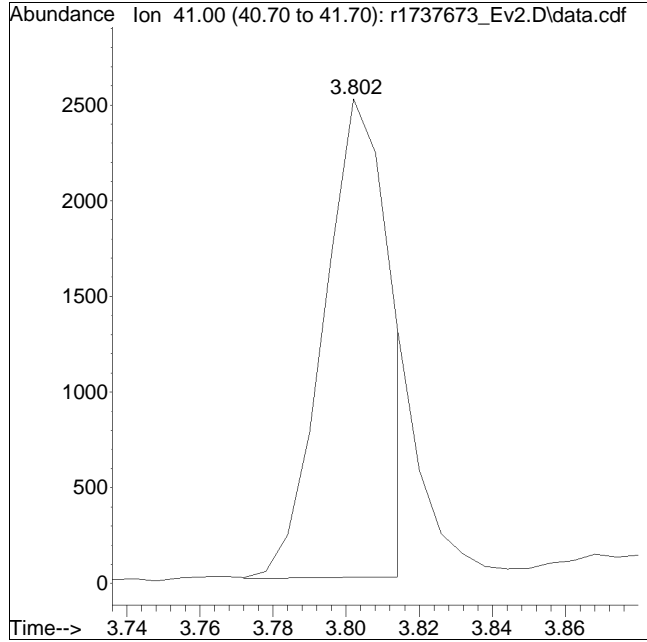
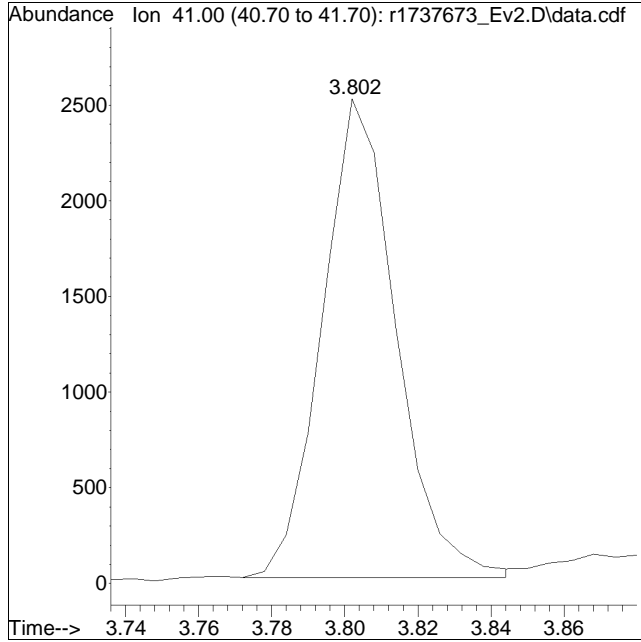
Quant Time: Jan 08 15:19:56 2024
Quant Method : O:\Forensics\Data\Airlab17\2024\01\0107SIM_I\TSIM17_240107.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Mon Jan 08 15:19:42 2024
Response via : Initial Calibration



Manual Integration Report

Data Path : O:\Forensics\Data\Airlab17QMethod : TSIM17_240107.M
Data File : r1737673_Ev2.D Operator : AIRLAB17:RAY
Date Inj'd : 1/7/2020 0:8: 0 Instrument :
Sample : ITO15-SIMSTD0.02 Quant Date : 1/8/2024 3:19 pm

Compound #2: propylene



Original Peak Response = 3507

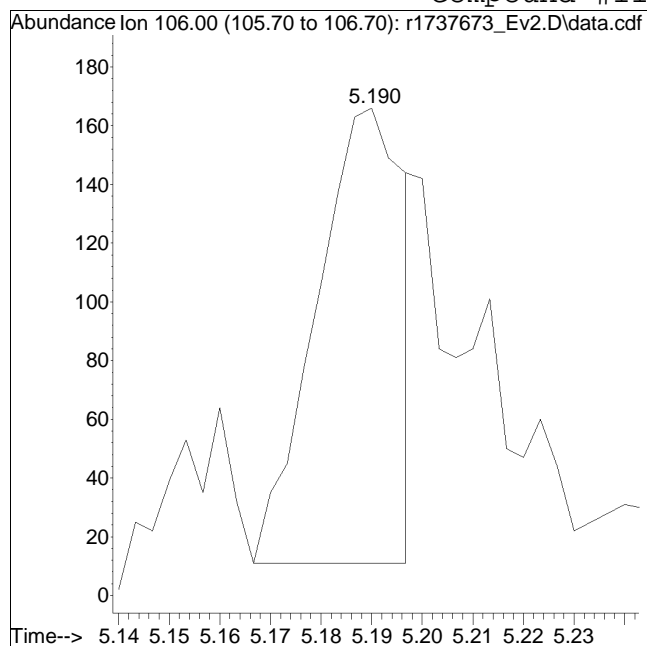
Manual Peak Response = 3143 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

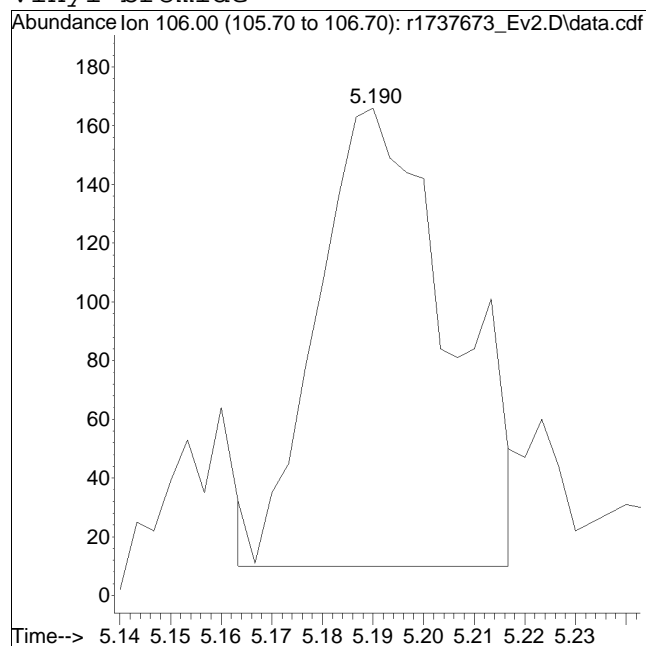
Data Path : O:\Forensics\Data\Airlab17QMethod : TSIM17_240107.M
Data File : r1737673_Ev2.D Operator : AIRLAB17:RAY
Date Inj'd : 1/7/2020 0:8: 0 Instrument :
Sample : ITO15-SIMSTD0.02 Quant Date : 1/8/2024 3:19 pm

Compound #11: vinyl bromide



Original Peak Response = 185

M4 = Poor automated baseline construction.

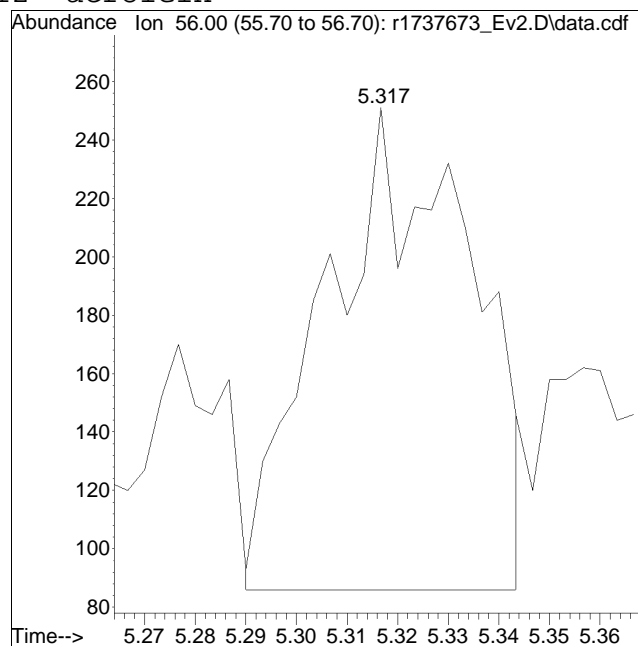
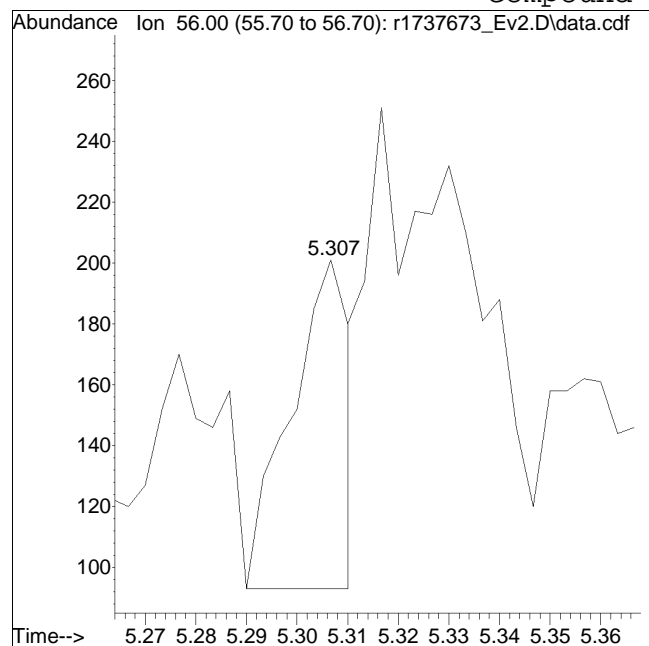


Manual Peak Response = 283 M4

Manual Integration Report

Data Path : O:\Forensics\Data\Airlab17QMethod : TSIM17_240107.M
Data File : r1737673_Ev2.D Operator : AIRLAB17:RAY
Date Inj'd : 1/7/2020 0:8: 0 Instrument :
Sample : ITO15-SIMSTD0.02 Quant Date : 1/8/2024 3:19 pm

Compound #12: acrolein



Original Peak Response = 87

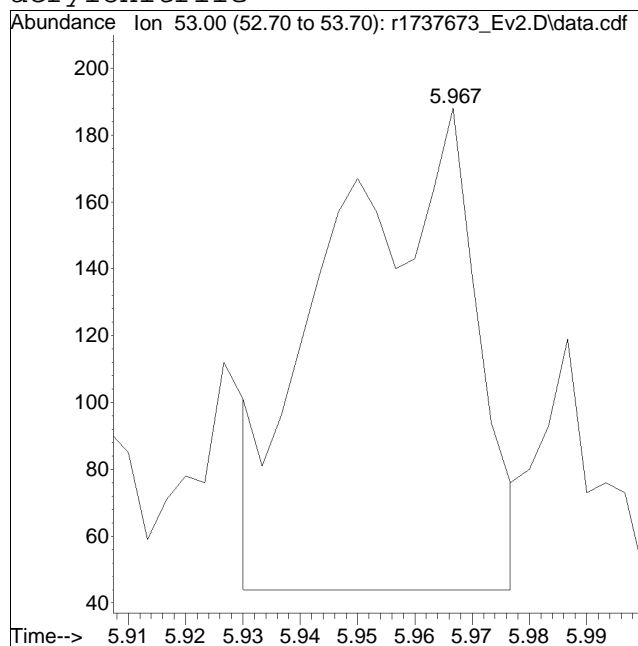
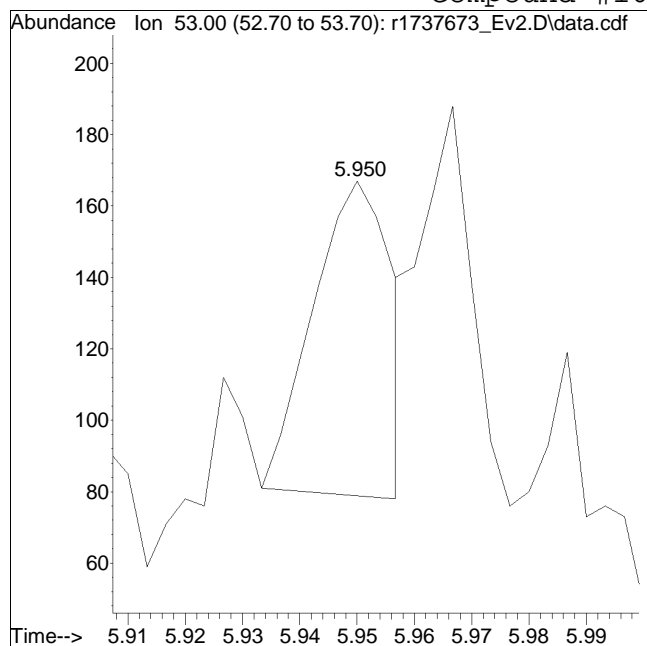
Manual Peak Response = 329 M4

M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : O:\Forensics\Data\Airlab17QMethod : TSIM17_240107.M
Data File : r1737673_Ev2.D Operator : AIRLAB17:RAY
Date Inj'd : 1/7/2020 0:8: 0 Instrument :
Sample : ITO15-SIMSTD0.02 Quant Date : 1/8/2024 3:19 pm

Compound #16: acrylonitrile



Original Peak Response = 83

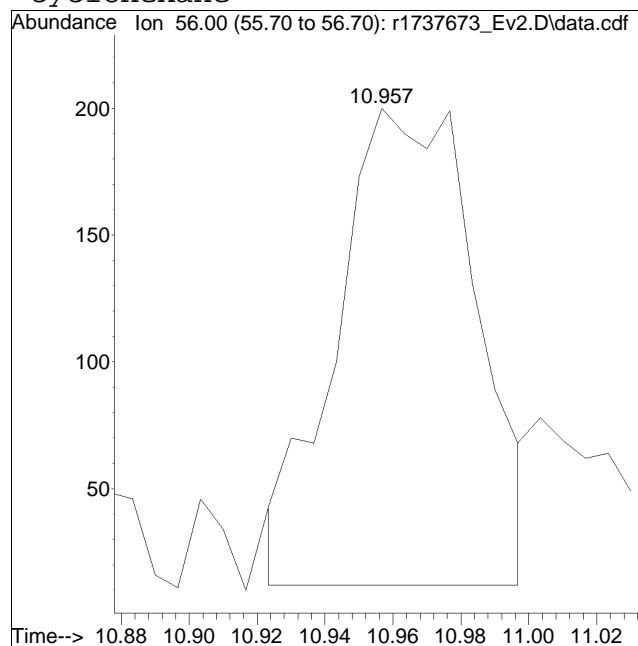
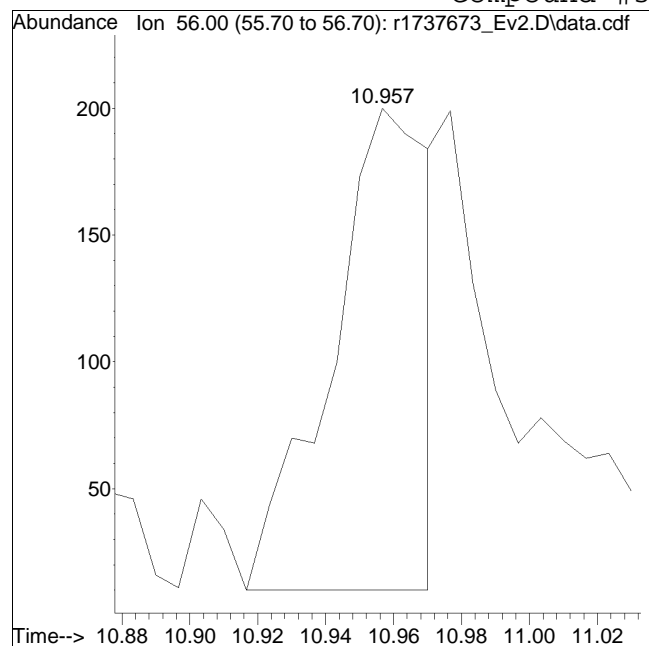
Manual Peak Response = 248 M4

M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : O:\Forensics\Data\Airlab17QMethod : TSIM17_240107.M
Data File : r1737673_Ev2.D Operator : AIRLAB17:RAY
Date Inj'd : 1/7/2020 0:8: 0 Instrument :
Sample : ITO15-SIMSTD0.02 Quant Date : 1/8/2024 3:19 pm

Compound #39: cyclohexane



Original Peak Response = 379

Manual Peak Response = 536 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab17\2024\01\0107SIM_I\
 Data File : r1737674_Ev2.D
 Acq On : 7 Jan 2024 8:57 PM
 Operator : AIRLAB17:RAY
 Sample : ITO15-SIMSTD0.05
 Misc : WG1872081
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jan 08 15:20:07 2024
 Quant Method : O:\Forensics\Data\Airlab17\2024\01\0107SIM_I\TSIM17_240107.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Mon Jan 08 15:19:42 2024
 Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab17\2024\01\0107SIM_I\r1737679_Ev2.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	8.833	49	235711	10.000	ppbV	0.00
Standard Area = 254708			Recovery =		92.54%	
33) 1,4-difluorobenzene	11.077	114	692480	10.000	ppbV	0.00
Standard Area = 737324			Recovery =		93.92%	
51) chlorobenzene-D5	15.833	54	87280	10.000	ppbV	0.00
Standard Area = 91988			Recovery =		94.88%	
System Monitoring Compounds						
35) 1,2-dichloroethane-D4	0.000	65	0	0.000	ppbV	
Spiked Amount 10.000	Range 70 - 130		Recovery =		0.00%#	
53) toluene-D8	13.933	98	17442	0.246	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =		2.46%#	
67) bromofluorobenzene	17.225	95	5151	0.118	ppbV	0.02
Spiked Amount 10.000	Range 70 - 130		Recovery =		1.18%#	
Target Compounds						
						Qvalue
2) propylene	3.802	41	3633M6	0.338	ppbV	
3) dichlorodifluoromethane	3.868	85	1577	0.064	ppbV	100
4) chloromethane	4.024	50	818	0.066	ppbV	93
5) Freon-114	4.126	85	1545	0.051	ppbV	99
6) vinyl chloride	4.240	62	701	0.055	ppbV #	80
7) 1,3-butadiene	4.378	54	519	0.049	ppbV #	64
8) bromomethane	4.648	94	584	0.053	ppbV	94
9) chloroethane	4.822	64	289	0.050	ppbV #	76
10) ethanol	4.942	31	7588	0.735	ppbV	100
11) vinyl bromide	5.193	106	596M4	0.054	ppbV	
12) acrolein	5.313	56	518M4	0.095	ppbV	
13) acetone	5.460	43	5883	0.414	ppbV #	96
14) trichlorofluoromethane	5.633	101	1119	0.056	ppbV	88
15) isopropyl alcohol	5.730	45	2490	0.127	ppbV #	94
16) acrylonitrile	5.953	53	584M4	0.056	ppbV	
17) 1,1-dichloroethene	6.312	61	882	0.054	ppbV	88
18) tertiary butyl alcohol	6.384	59	1278	0.059	ppbV #	36
19) methylene chloride	6.450	49	11737	0.766	ppbV	96
20) 3-chloropropene	6.582	41	906	0.052	ppbV #	87
21) carbon disulfide	6.750	76	2293	0.054	ppbV #	1
22) Freon 113	6.756	101	1343	0.053	ppbV	97
23) trans-1,2-dichloroethene	7.483	61	861	0.050	ppbV	97
24) 1,1-dichloroethane	7.708	63	1029	0.047	ppbV	89

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab17\2024\01\0107SIM_I\
 Data File : r1737674_Ev2.D
 Acq On : 7 Jan 2024 8:57 PM
 Operator : AIRLAB17:RAY
 Sample : ITO15-SIMSTD0.05
 Misc : WG1872081
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jan 08 15:20:07 2024
 Quant Method : O:\Forensics\Data\Airlab17\2024\01\0107SIM_I\TSIM17_240107.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Mon Jan 08 15:19:42 2024
 Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab17\2024\01\0107SIM_I\r1737679_Ev2.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
25) MTBE	7.808	73	1481	0.046	ppbV	#	66
26) vinyl acetate	7.908	43	1581	0.054	ppbV	#	94
27) 2-butanone	8.175	43	1758	0.060	ppbV	#	94
28) cis-1,2-dichloroethene	8.650	61	828	0.051	ppbV		97
29) Ethyl Acetate	8.950	61	222	0.053	ppbV	#	4
30) chloroform	8.992	83	1212	0.051	ppbV	#	90
31) Tetrahydrofuran	9.458	42	735	0.044	ppbV		92
32) 1,2-dichloroethane	9.825	62	659	0.052	ppbV	#	85
34) hexane	8.908	57	1247	0.060	ppbV	#	12
36) 1,1,1-trichloroethane	10.117	97	927	0.048	ppbV	#	97
37) benzene	10.650	78	2886	0.058	ppbV		97
38) carbon tetrachloride	10.817	117	979	0.051	ppbV		92
39) cyclohexane	10.963	56	1178	0.053	ppbV		91
40) Dibromomethane	11.563	93	841	0.064	ppbV	#	96
41) 1,2-dichloropropane	11.597	63	845	0.055	ppbV	#	83
42) bromodichloromethane	11.817	83	1206	0.052	ppbV		98
43) 1,4-dioxane	11.903	88	546	0.057	ppbV		87
44) trichloroethene	11.877	130	1050	0.051	ppbV		91
45) 2,2,4-trimethylpentane	11.937	57	4950	0.075	ppbV	#	99
46) heptane	12.250	43	1538	0.051	ppbV		96
47) cis-1,3-dichloropropene	12.892	75	1109	0.044	ppbV	#	85
48) 4-methyl-2-pentanone	12.992	43	2356	0.065	ppbV	#	88
49) trans-1,3-dichloropropene	13.517	75	822	0.042	ppbV	#	78
50) 1,1,2-trichloroethane	13.717	97	784	0.045	ppbV		88
52) toluene	14.050	91	2903	0.055	ppbV		97
54) 2-hexanone	14.392	43	1038M3	0.031	ppbV		
55) dibromochloromethane	14.500	129	1013	0.044	ppbV	#	95
56) 1,2-dibromoethane	14.758	107	1265	0.045	ppbV		96
57) tetrachloroethene	15.225	166	1027	0.051	ppbV		98
58) 1,1,1,2-tetrachloroethane	15.867	131	887	0.049	ppbV		97
59) chlorobenzene	15.875	112	2126	0.045	ppbV		96
60) ethylbenzene	16.233	91	3134	0.047	ppbV		100
61) m+p-xylene	16.400	91	4938	0.094	ppbV		98
62) bromoform	16.458	173	658	0.040	ppbV		91
63) styrene	16.725	104	1863	0.041	ppbV		96
64) 1,1,2,2-tetrachloroethane	16.817	83	1770	0.045	ppbV		96
65) o-xylene	16.817	91	2522	0.047	ppbV		98
66) 1,2,3-Trichloropropane	16.933	75	1428	0.049	ppbV		98
68) isopropylbenzene	17.342	105	3347	0.049	ppbV		95
69) Bromobenzene	17.408	77	1733	0.046	ppbV		95

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab17\2024\01\0107SIM_I\
 Data File : r1737674_Ev2.D
 Acq On : 7 Jan 2024 8:57 PM
 Operator : AIRLAB17:RAY
 Sample : ITO15-SIMSTD0.05
 Misc : WG1872081
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jan 08 15:20:07 2024
 Quant Method : O:\Forensics\Data\Airlab17\2024\01\0107SIM_I\TSIM17_240107.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Mon Jan 08 15:19:42 2024
 Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab17\2024\01\0107SIM_I\r1737679_Ev2.D
 Sub List : Default - All compounds listed

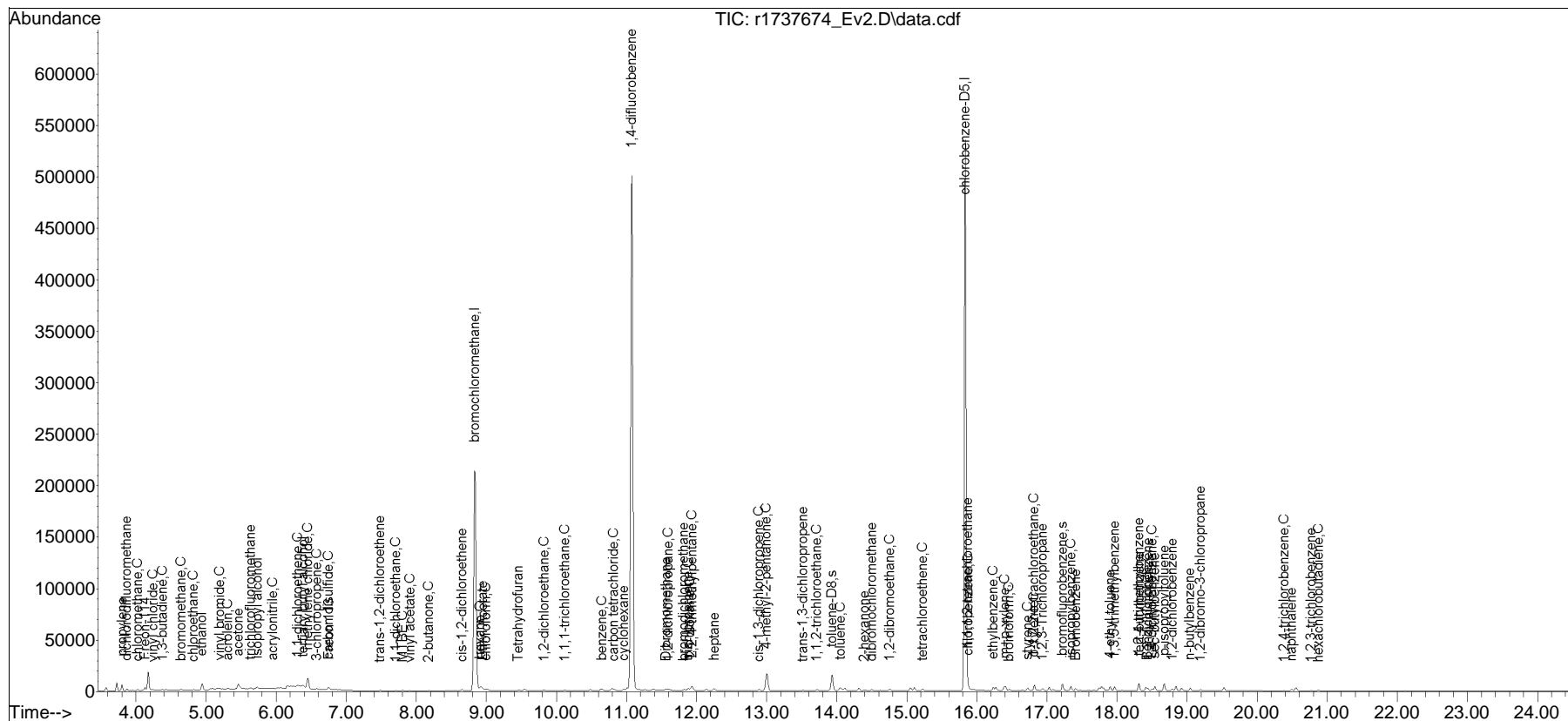
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
70) 4-ethyl toluene	17.900	105	3289	0.045	ppbV	#	97
71) 1,3,5-trimethylbenzene	17.967	105	2810	0.044	ppbV		98
72) tert-butylbenzene	18.317	119	2886	0.048	ppbV		97
73) 1,2,4-trimethylbenzene	18.308	105	2748	0.043	ppbV		93
74) Benzyl Chloride	18.433	91	1101	0.033	ppbV		94
75) 1,3-dichlorobenzene	18.442	146	1540	0.041	ppbV	#	83
76) 1,4-dichlorobenzene	18.500	146	1425	0.039	ppbV		99
77) sec-butylbenzene	18.542	105	4192	0.049	ppbV		99
78) p-isopropyltoluene	18.675	119	3363	0.047	ppbV		98
79) 1,2-dichlorobenzene	18.792	146	1529	0.044	ppbV		97
80) n-butylbenzene	19.042	91	2715	0.044	ppbV		98
81) 1,2-dibromo-3-chloropr...	19.192	75	518	0.039	ppbV		91
82) 1,2,4-trichlorobenzene	20.383	180	821	0.036	ppbV		92
83) naphthalene	20.492	128	3105	0.052	ppbV	#	95
84) 1,2,3-trichlorobenzene	20.767	180	796	0.046	ppbV	#	89
85) hexachlorobutadiene	20.875	225	1070	0.048	ppbV		96

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

Sub List : Default - All compounds listed4\01\0107SIM_I\r1737679_Ev2.D

Data Path : O:\Forensics\Data\Airlab17\2024\01\0107SIM_I\
Data File : r1737674_Ev2.D
Acq On : 7 Jan 2024 8:57 PM
Operator : AIRLAB17:RAY
Sample : ITO15-SIMSTD0.05
Misc : WG1872081
ALS Vial : 0 Sample Multiplier: 1

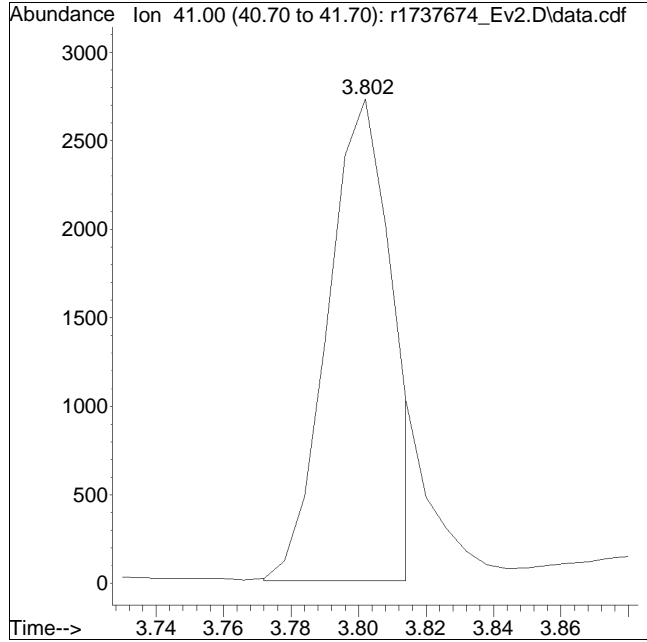
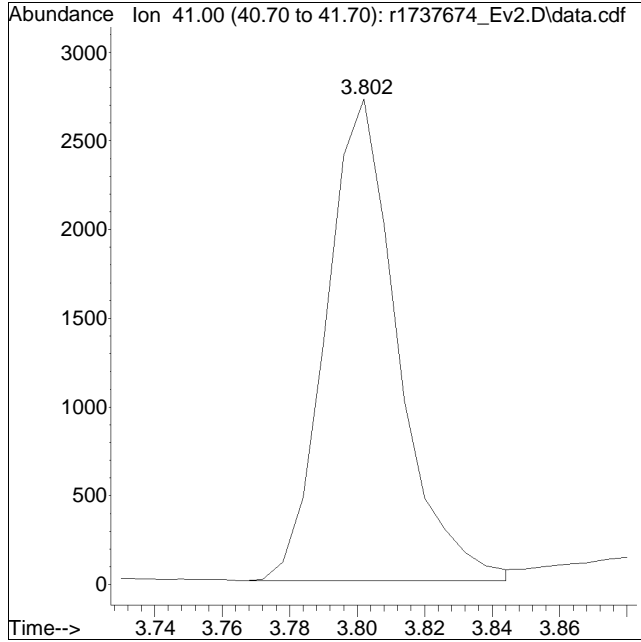
Quant Time: Jan 08 15:20:07 2024
Quant Method : O:\Forensics\Data\Airlab17\2024\01\0107SIM_I\TSIM17_240107.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Mon Jan 08 15:19:42 2024
Response via : Initial Calibration



Manual Integration Report

Data Path : O:\Forensics\Data\Airlab17QMethod : TSIM17_240107.M
Data File : r1737674_Ev2.D Operator : AIRLAB17:RAY
Date Inj'd : 1/7/2020 0:8: 7 Instrument :
Sample : ITO15-SIMSTD0.05 Quant Date : 1/8/2024 3:20 pm

Compound #2: propylene



Original Peak Response = 4006

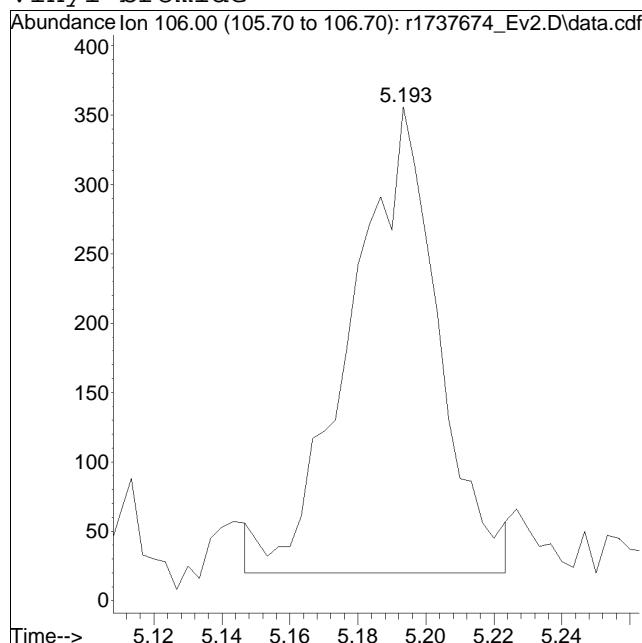
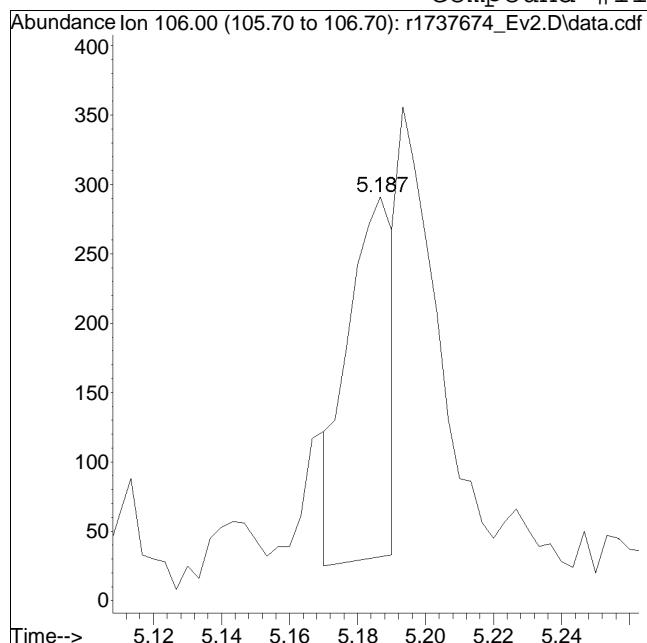
Manual Peak Response = 3633 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

Data Path : O:\Forensics\Data\Airlab17QMethod : TSIM17_240107.M
Data File : r1737674_Ev2.D Operator : AIRLAB17:RAY
Date Inj'd : 1/7/2020 0:8: 7 Instrument :
Sample : ITO15-SIMSTD0.05 Quant Date : 1/8/2024 3:20 pm

Compound #11: vinyl bromide



Original Peak Response = 242

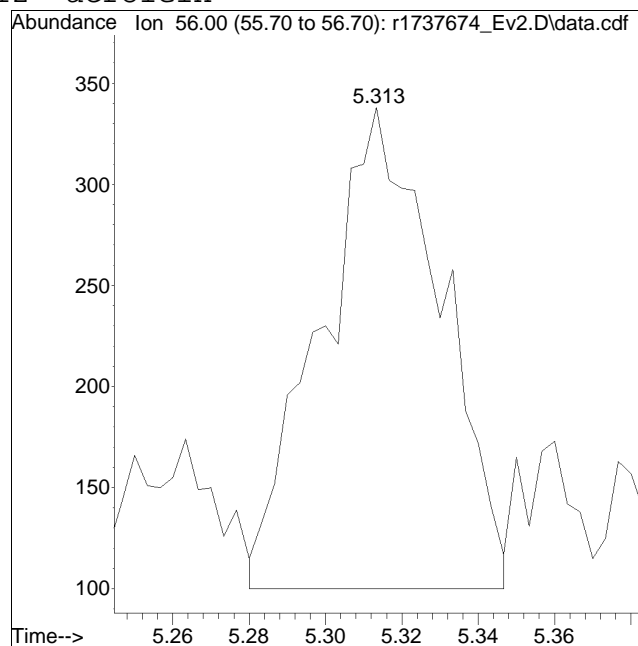
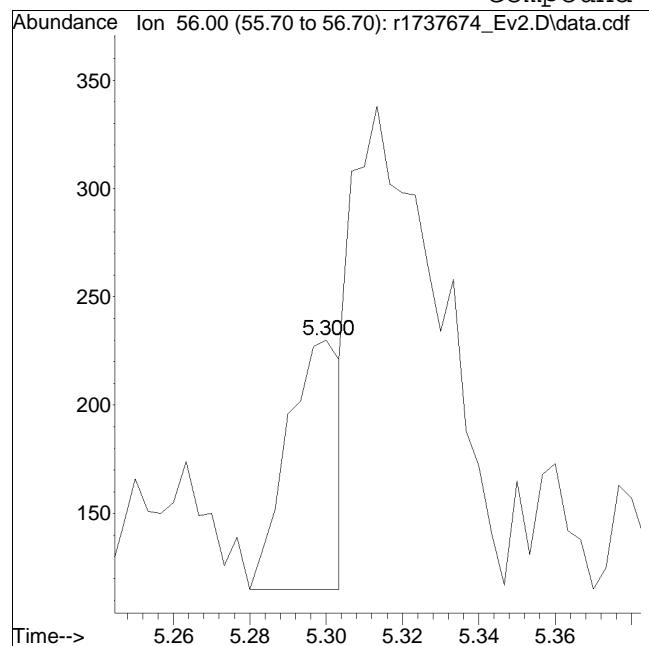
Manual Peak Response = 596 M4

M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : O:\Forensics\Data\Airlab17QMethod : TSIM17_240107.M
Data File : r1737674_Ev2.D Operator : AIRLAB17:RAY
Date Inj'd : 1/7/2020 0:8: 7 Instrument :
Sample : ITO15-SIMSTD0.05 Quant Date : 1/8/2024 3:20 pm

Compound #12: acrolein



Original Peak Response = 111

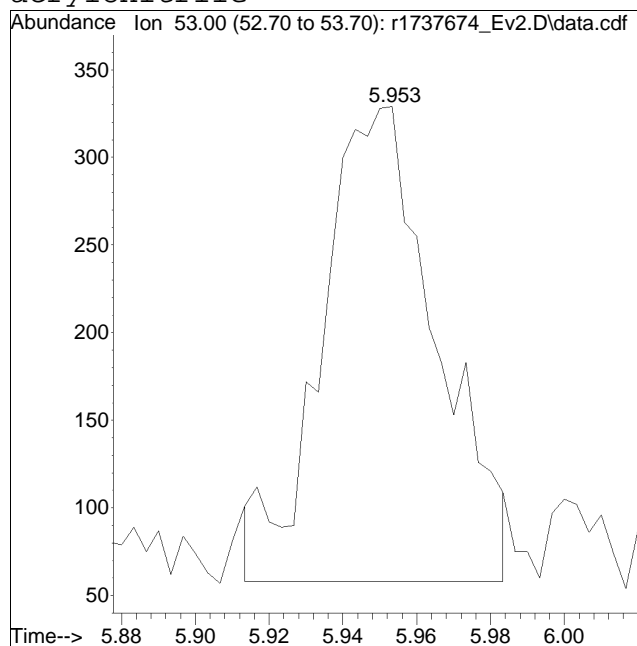
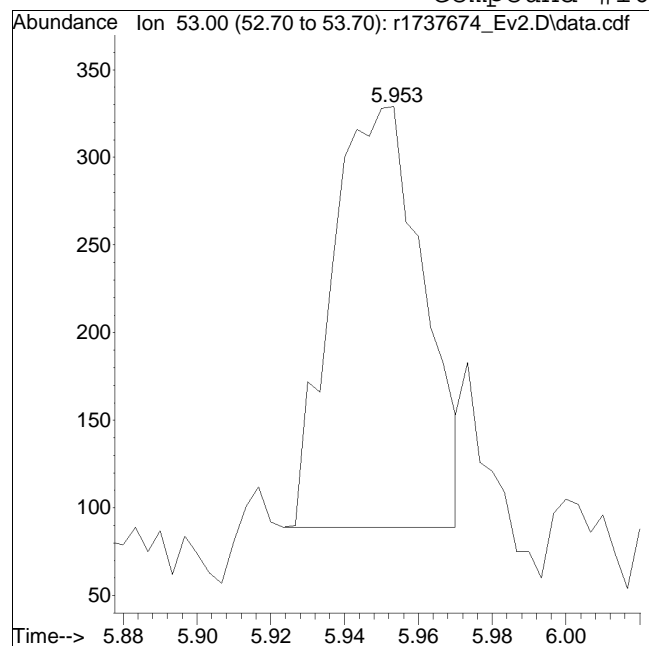
Manual Peak Response = 518 M4

M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : O:\Forensics\Data\Airlab17QMethod : TSIM17_240107.M
Data File : r1737674_Ev2.D Operator : AIRLAB17:RAY
Date Inj'd : 1/7/2020 0:8: 7 Instrument :
Sample : ITO15-SIMSTD0.05 Quant Date : 1/8/2024 3:20 pm

Compound #16: acrylonitrile



Original Peak Response = 412

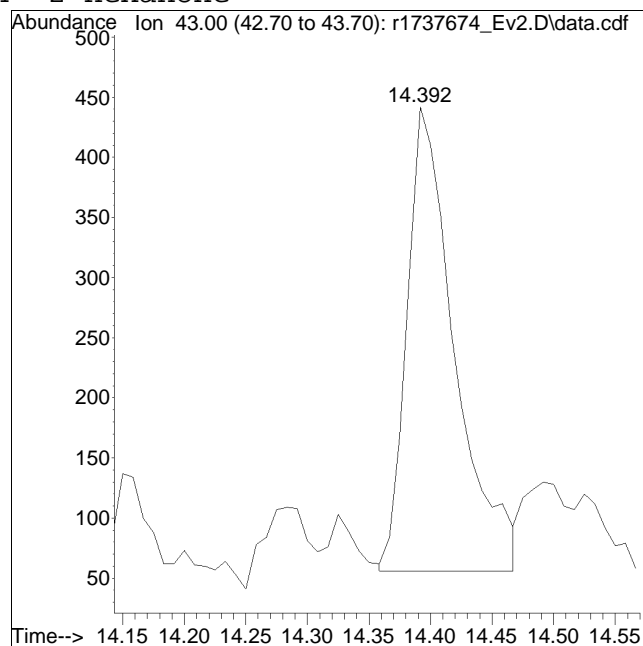
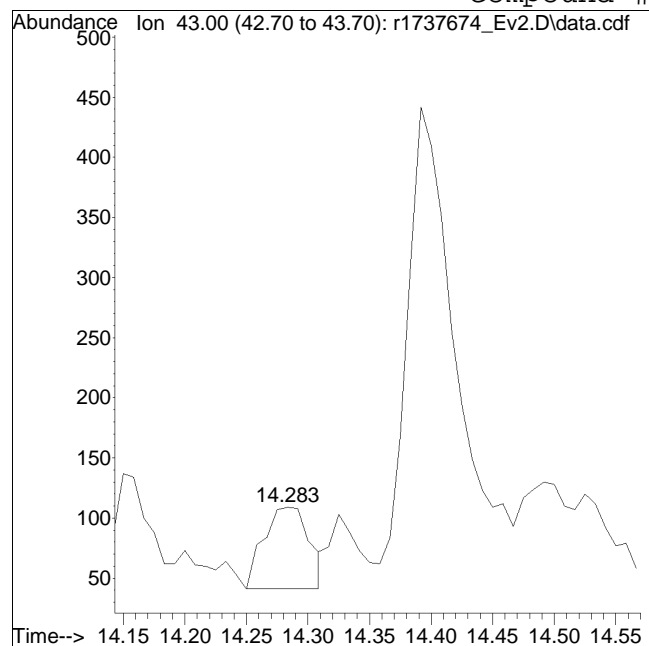
Manual Peak Response = 584 M4

M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : O:\Forensics\Data\Airlab17QMethod : TSIM17_240107.M
Data File : r1737674_Ev2.D Operator : AIRLAB17:RAY
Date Inj'd : 1/7/2020 0:8: 7 Instrument :
Sample : ITO15-SIMSTD0.05 Quant Date : 1/8/2024 3:20 pm

Compound #54: 2-hexanone



Original Peak Response = 176

Manual Peak Response = 1038 M3

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab17\2024\01\0107SIM_I\
 Data File : r1737675_Ev2.D
 Acq On : 7 Jan 2024 9:36 PM
 Operator : AIRLAB17:RAY
 Sample : ITO15-SIMSTD0.1
 Misc : WG1872081
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jan 08 15:20:17 2024
 Quant Method : O:\Forensics\Data\Airlab17\2024\01\0107SIM_I\TSIM17_240107.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Mon Jan 08 15:19:42 2024
 Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab17\2024\01\0107SIM_I\r1737679_Ev2.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	8.833	49	242434	10.000	ppbV	0.00
Standard Area =	254708		Recovery =	95.18%		
33) 1,4-difluorobenzene	11.077	114	709972	10.000	ppbV	0.00
Standard Area =	737324		Recovery =	96.29%		
51) chlorobenzene-D5	15.833	54	87852	10.000	ppbV	0.00
Standard Area =	91988		Recovery =	95.50%		
System Monitoring Compounds						
35) 1,2-dichloroethane-D4	0.000	65	0d	0.000	ppbV	
Spiked Amount	10.000	Range	70 - 130	Recovery =	0.00%#	
53) toluene-D8	13.933	98	17902	0.251	ppbV	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery =	2.51%#	
67) bromofluorobenzene	17.225	95	5305	0.121	ppbV	0.02
Spiked Amount	10.000	Range	70 - 130	Recovery =	1.21%#	
Target Compounds						
						Qvalue
2) propylene	3.802	41	4171M6	0.378	ppbV	
3) dichlorodifluoromethane	3.868	85	3256	0.128	ppbV	97
4) chloromethane	4.024	50	1687	0.133	ppbV	96
5) Freon-114	4.126	85	3075	0.099	ppbV	100
6) vinyl chloride	4.240	62	1317	0.100	ppbV	97
7) 1,3-butadiene	4.378	54	1051	0.096	ppbV #	80
8) bromomethane	4.642	94	1180	0.103	ppbV	94
9) chloroethane	4.822	64	618	0.103	ppbV	90
10) ethanol	4.942	31	11273	1.061	ppbV	99
11) vinyl bromide	5.187	106	1159	0.101	ppbV	98
12) acrolein	5.317	56	701	0.125	ppbV #	75
13) acetone	5.457	43	11997	0.821	ppbV #	97
14) trichlorofluoromethane	5.633	101	2423	0.117	ppbV	100
15) isopropyl alcohol	5.727	45	5102	0.252	ppbV	100
16) acrylonitrile	5.947	53	1190	0.112	ppbV	96
17) 1,1-dichloroethene	6.312	61	1657	0.098	ppbV	98
18) tertiary butyl alcohol	6.378	59	2365	0.107	ppbV	95
19) methylene chloride	6.450	49	19780	1.255	ppbV	100
20) 3-chloropropene	6.582	41	1689	0.093	ppbV	91
21) carbon disulfide	6.750	76	4338	0.100	ppbV #	1
22) Freon 113	6.756	101	2675	0.102	ppbV	95
23) trans-1,2-dichloroethene	7.492	61	1756	0.100	ppbV	95
24) 1,1-dichloroethane	7.708	63	2212	0.098	ppbV	100

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab17\2024\01\0107SIM_I\
 Data File : r1737675_Ev2.D
 Acq On : 7 Jan 2024 9:36 PM
 Operator : AIRLAB17:RAY
 Sample : ITO15-SIMSTD0.1
 Misc : WG1872081
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jan 08 15:20:17 2024
 Quant Method : O:\Forensics\Data\Airlab17\2024\01\0107SIM_I\TSIM17_240107.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Mon Jan 08 15:19:42 2024
 Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab17\2024\01\0107SIM_I\r1737679_Ev2.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
25) MTBE	7.808	73	3098	0.094	ppbV	#	77
26) vinyl acetate	7.900	43	3309	0.111	ppbV		97
27) 2-butanone	8.175	43	3472	0.115	ppbV	#	97
28) cis-1,2-dichloroethene	8.650	61	1711	0.102	ppbV		92
29) Ethyl Acetate	8.950	61	373	0.087	ppbV	#	30
30) chloroform	8.992	83	2451	0.101	ppbV		97
31) Tetrahydrofuran	9.458	42	1687	0.099	ppbV		95
32) 1,2-dichloroethane	9.825	62	1292	0.098	ppbV	#	91
34) hexane	8.908	57	2442	0.115	ppbV	#	14
36) 1,1,1-trichloroethane	10.125	97	1938	0.097	ppbV		95
37) benzene	10.643	78	5672	0.111	ppbV		96
38) carbon tetrachloride	10.823	117	1978	0.100	ppbV	#	97
39) cyclohexane	10.970	56	2465	0.108	ppbV		88
40) Dibromomethane	11.557	93	1658	0.122	ppbV	#	96
41) 1,2-dichloropropane	11.597	63	1670	0.107	ppbV	#	94
42) bromodichloromethane	11.823	83	2239	0.094	ppbV		93
43) 1,4-dioxane	11.897	88	1023	0.104	ppbV		96
44) trichloroethene	11.883	130	1935	0.092	ppbV	#	84
45) 2,2,4-trimethylpentane	11.937	57	10058	0.148	ppbV		97
46) heptane	12.250	43	3118	0.101	ppbV	#	97
47) cis-1,3-dichloropropene	12.892	75	2236	0.087	ppbV		94
48) 4-methyl-2-pentanone	12.975	43	3944	0.107	ppbV		98
49) trans-1,3-dichloropropene	13.525	75	1694	0.084	ppbV		91
50) 1,1,2-trichloroethane	13.717	97	1715	0.095	ppbV		96
52) toluene	14.050	91	5641	0.106	ppbV		98
54) 2-hexanone	14.383	43	2213	0.066	ppbV		98
55) dibromochloromethane	14.500	129	1936	0.083	ppbV		93
56) 1,2-dibromoethane	14.758	107	2544	0.090	ppbV		94
57) tetrachloroethene	15.225	166	2185	0.107	ppbV		99
58) 1,1,1,2-tetrachloroethane	15.867	131	1797	0.098	ppbV		99
59) chlorobenzene	15.875	112	4532	0.096	ppbV		98
60) ethylbenzene	16.233	91	6481	0.096	ppbV		99
61) m+p-xylene	16.392	91	10288	0.195	ppbV		99
62) bromoform	16.458	173	1235	0.074	ppbV		90
63) styrene	16.725	104	4085	0.089	ppbV		97
64) 1,1,2,2-tetrachloroethane	16.817	83	3713	0.093	ppbV		98
65) o-xylene	16.825	91	5181	0.097	ppbV		95
66) 1,2,3-Trichloropropane	16.933	75	2960	0.101	ppbV		96
68) isopropylbenzene	17.342	105	6990	0.102	ppbV		98
69) Bromobenzene	17.408	77	3673	0.097	ppbV		98

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab17\2024\01\0107SIM_I\
 Data File : r1737675_Ev2.D
 Acq On : 7 Jan 2024 9:36 PM
 Operator : AIRLAB17:RAY
 Sample : ITO15-SIMSTD0.1
 Misc : WG1872081
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jan 08 15:20:17 2024
 Quant Method : O:\Forensics\Data\Airlab17\2024\01\0107SIM_I\TSIM17_240107.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Mon Jan 08 15:19:42 2024
 Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab17\2024\01\0107SIM_I\r1737679_Ev2.D
 Sub List : Default - All compounds listed

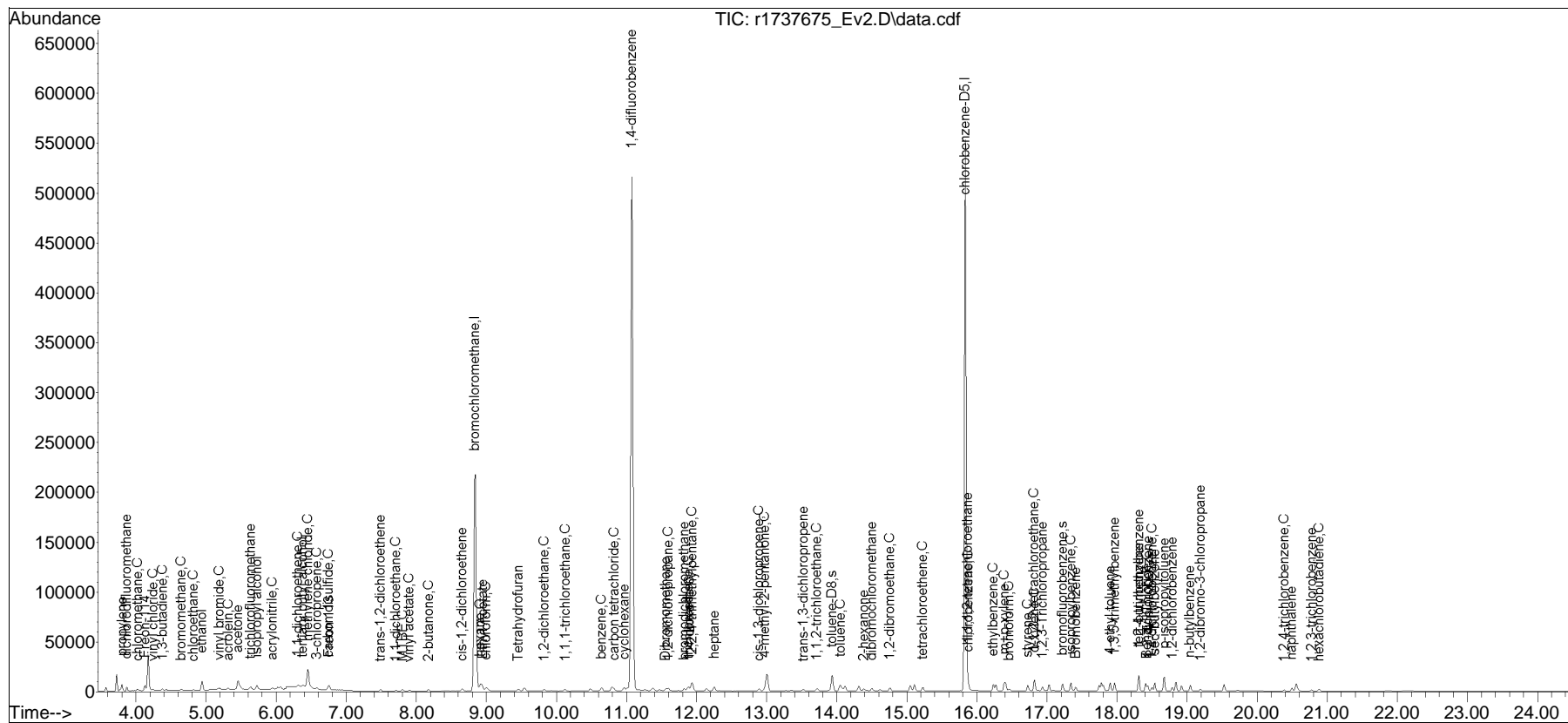
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
70) 4-ethyl toluene	17.900	105	6913	0.094	ppbV	98
71) 1,3,5-trimethylbenzene	17.967	105	5819	0.091	ppbV	99
72) tert-butylbenzene	18.308	119	6139	0.101	ppbV	99
73) 1,2,4-trimethylbenzene	18.308	105	5966	0.093	ppbV	92
74) Benzyl Chloride	18.425	91	2284	0.069	ppbV	96
75) 1,3-dichlorobenzene	18.442	146	3294	0.087	ppbV	96
76) 1,4-dichlorobenzene	18.500	146	3235	0.088	ppbV	95
77) sec-butylbenzene	18.542	105	8686	0.101	ppbV	100
78) p-isopropyltoluene	18.675	119	7250	0.101	ppbV	98
79) 1,2-dichlorobenzene	18.792	146	3254	0.092	ppbV	95
80) n-butylbenzene	19.042	91	5870	0.095	ppbV	99
81) 1,2-dibromo-3-chloropr...	19.192	75	1155	0.086	ppbV	94
82) 1,2,4-trichlorobenzene	20.383	180	1790	0.077	ppbV	95
83) naphthalene	20.492	128	5966	0.100	ppbV	96
84) 1,2,3-trichlorobenzene	20.775	180	1754	0.101	ppbV	96
85) hexachlorobutadiene	20.883	225	2227	0.098	ppbV	96

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

Sub List : Default - All compounds listed4\01\0107SIM_I\r1737679_Ev2.D

Data Path : O:\Forensics\Data\Airlab17\2024\01\0107SIM_I\
Data File : r1737675_Ev2.D
Acq On : 7 Jan 2024 9:36 PM
Operator : AIRLAB17:RAY
Sample : ITO15-SIMSTD0.1
Misc : WG1872081
ALS Vial : 0 Sample Multiplier: 1

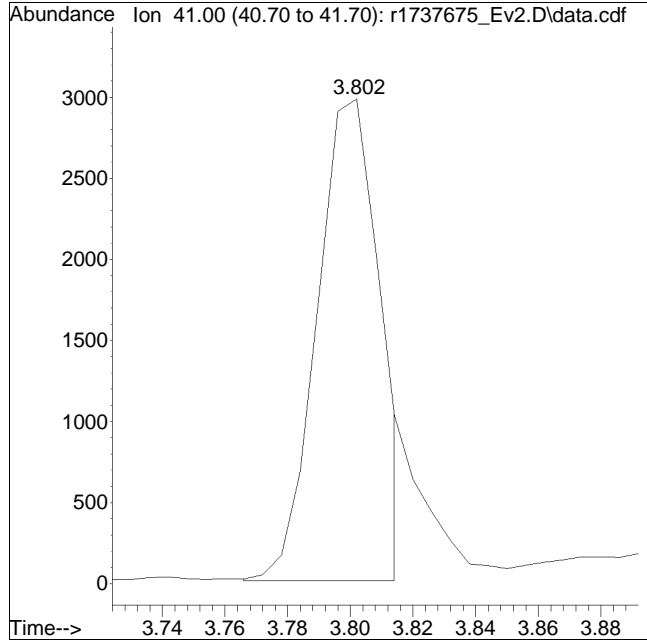
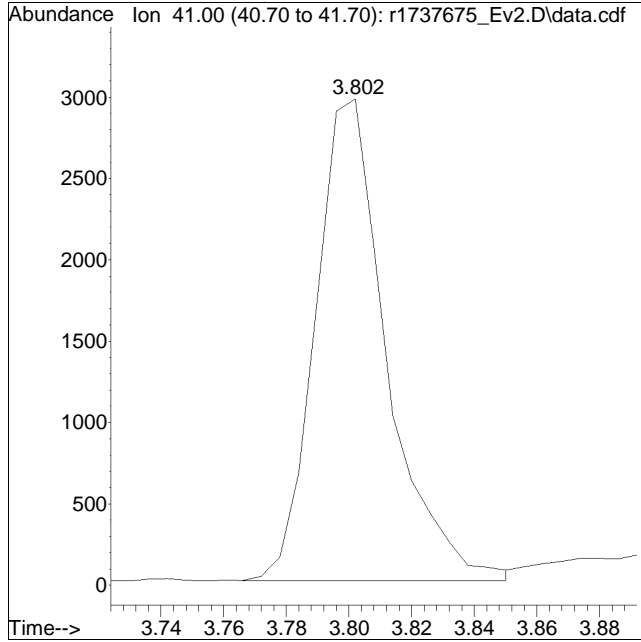
Quant Time: Jan 08 15:20:17 2024
Quant Method : O:\Forensics\Data\Airlab17\2024\01\0107SIM_I\TSIM17_240107.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Mon Jan 08 15:19:42 2024
Response via : Initial Calibration



Manual Integration Report

Data Path : O:\Forensics\Data\Airlab17QMethod : TSIM17_240107.M
Data File : r1737675_Ev2.D Operator : AIRLAB17:RAY
Date Inj'd : 1/7/2020 0:9: 6 Instrument :
Sample : ITO15-SIMSTD0.1 Quant Date : 1/8/2024 3:20 pm

Compound #2: propylene



Original Peak Response = 4677

Manual Peak Response = 4171 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab17\2024\01\0107SIM_I\
 Data File : r1737676_Ev2.D
 Acq On : 7 Jan 2024 10:14 PM
 Operator : AIRLAB17:RAY
 Sample : ITO15-SIMSTD0.2
 Misc : WG1872081
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jan 08 15:20:28 2024
 Quant Method : O:\Forensics\Data\Airlab17\2024\01\0107SIM_I\TSIM17_240107.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Mon Jan 08 15:19:42 2024
 Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab17\2024\01\0107SIM_I\r1737679_Ev2.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	8.833	49	243954	10.000	ppbV	0.00
Standard Area = 254708			Recovery =		95.78%	
33) 1,4-difluorobenzene	11.070	114	713366	10.000	ppbV	0.00
Standard Area = 737324			Recovery =		96.75%	
51) chlorobenzene-D5	15.833	54	87927	10.000	ppbV	0.00
Standard Area = 91988			Recovery =		95.59%	
System Monitoring Compounds						
35) 1,2-dichloroethane-D4	9.700	65	208191	10.037	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =		100.37%	
53) toluene-D8	13.933	98	712700	9.993	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =		99.93%	
67) bromofluorobenzene	17.217	95	425625	9.673	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =		96.73%	
Target Compounds						
2) propylene	3.796	41	5154M6	0.464	ppbV	
3) dichlorodifluoromethane	3.868	85	5554	0.216	ppbV	97
4) chloromethane	4.024	50	2769	0.217	ppbV	95
5) Freon-114	4.126	85	6848	0.218	ppbV	98
6) vinyl chloride	4.240	62	2963	0.223	ppbV	95
7) 1,3-butadiene	4.372	54	2430	0.220	ppbV	87
8) bromomethane	4.642	94	2537	0.220	ppbV	99
9) chloroethane	4.822	64	1359	0.226	ppbV	98
10) ethanol	4.936	31	16156	1.512	ppbV	100
11) vinyl bromide	5.187	106	2347	0.204	ppbV	97
12) acrolein	5.307	56	1367M4	0.242	ppbV	
13) acetone	5.450	43	19206	1.307	ppbV #	99
14) trichlorofluoromethane	5.633	101	4557	0.219	ppbV	99
15) isopropyl alcohol	5.717	45	10994	0.540	ppbV	98
16) acrylonitrile	5.950	53	2659	0.249	ppbV	93
17) 1,1-dichloroethene	6.312	61	3725	0.218	ppbV	97
18) tertiary butyl alcohol	6.372	59	5195	0.233	ppbV #	67
19) methylene chloride	6.450	49	4452	0.281	ppbV	95
20) 3-chloropropene	6.582	41	3835	0.211	ppbV	97
21) carbon disulfide	6.744	76	9463	0.216	ppbV #	18
22) Freon 113	6.750	101	5823	0.220	ppbV	97
23) trans-1,2-dichloroethene	7.483	61	3851	0.217	ppbV	96
24) 1,1-dichloroethane	7.708	63	4940	0.219	ppbV	99

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab17\2024\01\0107SIM_I\
 Data File : r1737676_Ev2.D
 Acq On : 7 Jan 2024 10:14 PM
 Operator : AIRLAB17:RAY
 Sample : ITO15-SIMSTD0.2
 Misc : WG1872081
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jan 08 15:20:28 2024
 Quant Method : O:\Forensics\Data\Airlab17\2024\01\0107SIM_I\TSIM17_240107.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Mon Jan 08 15:19:42 2024
 Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab17\2024\01\0107SIM_I\r1737679_Ev2.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
25) MTBE	7.792	73	7274	0.219	ppbV	#	89
26) vinyl acetate	7.900	43	6630	0.220	ppbV		100
27) 2-butanone	8.167	43	6421	0.211	ppbV		99
28) cis-1,2-dichloroethene	8.650	61	3742	0.222	ppbV		98
29) Ethyl Acetate	8.942	61	905	0.210	ppbV	#	37
30) chloroform	8.992	83	5489	0.224	ppbV		99
31) Tetrahydrofuran	9.442	42	3576	0.208	ppbV		99
32) 1,2-dichloroethane	9.825	62	3297	0.249	ppbV		99
34) hexane	8.908	57	4757	0.223	ppbV	#	40
36) 1,1,1-trichloroethane	10.117	97	4304	0.215	ppbV		99
37) benzene	10.643	78	11411	0.222	ppbV		98
38) carbon tetrachloride	10.817	117	4243	0.215	ppbV		98
39) cyclohexane	10.963	56	5275	0.230	ppbV		97
40) Dibromomethane	11.563	93	3221	0.236	ppbV	#	99
41) 1,2-dichloropropane	11.597	63	3563	0.227	ppbV		95
42) bromodichloromethane	11.817	83	4849	0.202	ppbV		96
43) 1,4-dioxane	11.883	88	2140	0.218	ppbV		93
44) trichloroethene	11.877	130	4548	0.215	ppbV		98
45) 2,2,4-trimethylpentane	11.930	57	17213	0.252	ppbV		99
46) heptane	12.250	43	6564	0.212	ppbV		98
47) cis-1,3-dichloropropene	12.892	75	5127	0.199	ppbV		97
48) 4-methyl-2-pentanone	12.950	43	8138	0.219	ppbV		97
49) trans-1,3-dichloropropene	13.517	75	3966	0.195	ppbV		97
50) 1,1,2-trichloroethane	13.717	97	3869	0.213	ppbV		97
52) toluene	14.042	91	11492	0.217	ppbV		100
54) 2-hexanone	14.367	43	5667	0.170	ppbV		99
55) dibromochloromethane	14.500	129	4554	0.194	ppbV		98
56) 1,2-dibromoethane	14.758	107	5923	0.209	ppbV		99
57) tetrachloroethene	15.225	166	4529	0.222	ppbV		98
58) 1,1,1,2-tetrachloroethane	15.858	131	3865	0.210	ppbV		97
59) chlorobenzene	15.875	112	10092	0.214	ppbV		98
60) ethylbenzene	16.233	91	14407	0.213	ppbV		99
61) m+p-xylene	16.400	91	22718	0.430	ppbV		100
62) bromoform	16.458	173	2841	0.170	ppbV		98
63) styrene	16.725	104	9332	0.202	ppbV		97
64) 1,1,2,2-tetrachloroethane	16.817	83	8481	0.213	ppbV		100
65) o-xylene	16.817	91	11398	0.213	ppbV		97
66) 1,2,3-Trichloropropane	16.933	75	6865	0.233	ppbV		100
68) isopropylbenzene	17.333	105	15712	0.229	ppbV		99
69) Bromobenzene	17.408	77	8429	0.223	ppbV		99

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab17\2024\01\0107SIM_I\
 Data File : r1737676_Ev2.D
 Acq On : 7 Jan 2024 10:14 PM
 Operator : AIRLAB17:RAY
 Sample : ITO15-SIMSTD0.2
 Misc : WG1872081
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jan 08 15:20:28 2024
 Quant Method : O:\Forensics\Data\Airlab17\2024\01\0107SIM_I\TSIM17_240107.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Mon Jan 08 15:19:42 2024
 Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab17\2024\01\0107SIM_I\r1737679_Ev2.D
 Sub List : Default - All compounds listed

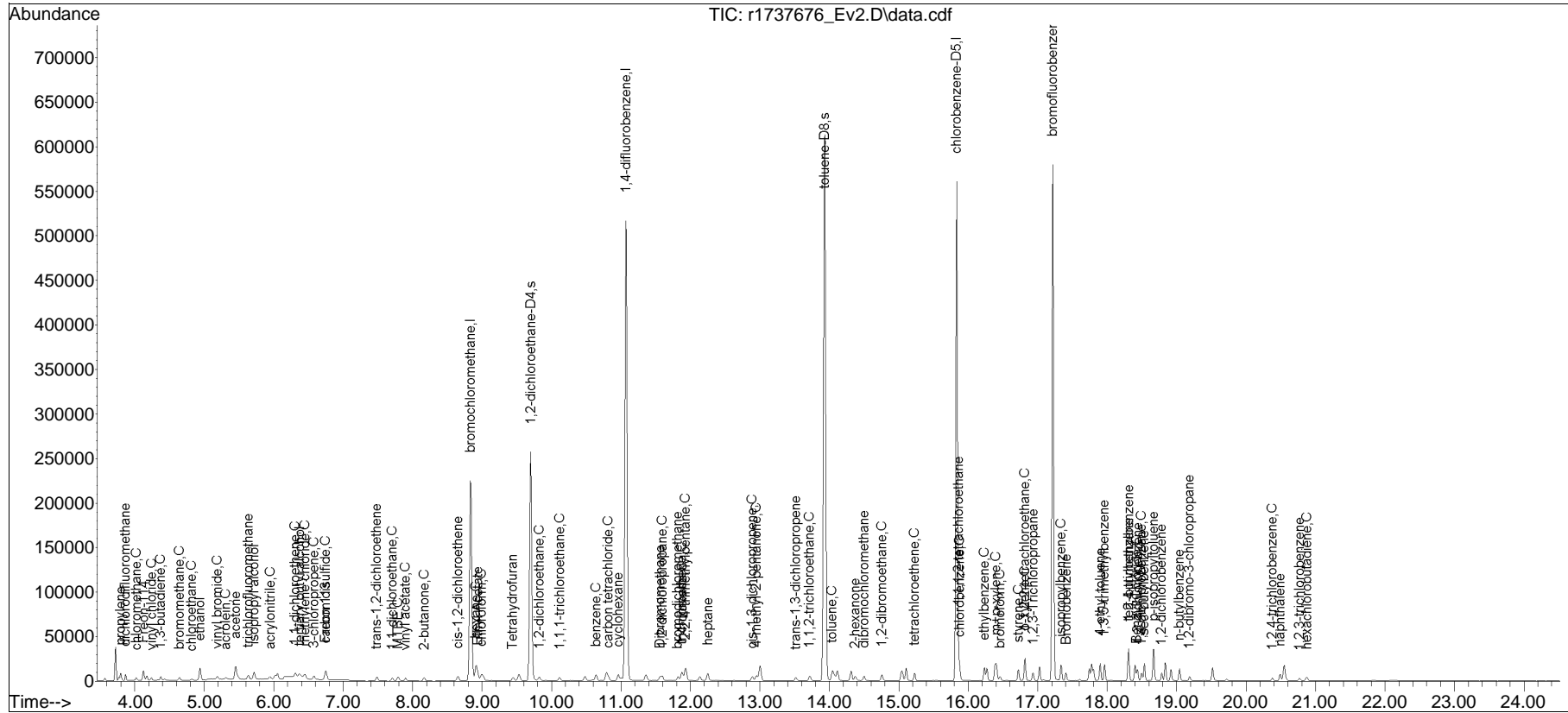
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
70) 4-ethyl toluene	17.900	105	15847	0.216	ppbV	99
71) 1,3,5-trimethylbenzene	17.958	105	13658	0.214	ppbV	99
72) tert-butylbenzene	18.308	119	13991	0.231	ppbV	99
73) 1,2,4-trimethylbenzene	18.308	105	13510	0.210	ppbV	91
74) Benzyl Chloride	18.425	91	5409	0.162	ppbV	98
75) 1,3-dichlorobenzene	18.442	146	7670	0.202	ppbV	98
76) 1,4-dichlorobenzene	18.492	146	7439	0.201	ppbV	99
77) sec-butylbenzene	18.533	105	20092	0.234	ppbV	96
78) p-isopropyltoluene	18.667	119	16572	0.230	ppbV	98
79) 1,2-dichlorobenzene	18.783	146	7431	0.210	ppbV	98
80) n-butylbenzene	19.042	91	13736	0.221	ppbV	97
81) 1,2-dibromo-3-chloropr...	19.183	75	2597	0.193	ppbV	94
82) 1,2,4-trichlorobenzene	20.375	180	3748	0.162	ppbV	97
83) naphthalene	20.492	128	13005	0.218	ppbV	100
84) 1,2,3-trichlorobenzene	20.767	180	3539	0.204	ppbV	97
85) hexachlorobutadiene	20.875	225	4432	0.196	ppbV	99

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

Sub List : Default - All compounds listed4\01\0107SIM_I\r1737679_Ev2.D

Data Path : O:\Forensics\Data\Airlab17\2024\01\0107SIM_I\
Data File : r1737676_Ev2.D
Acq On : 7 Jan 2024 10:14 PM
Operator : AIRLAB17:RAY
Sample : ITO15-SIMSTD0.2
Misc : WG1872081
ALS Vial : 0 Sample Multiplier: 1

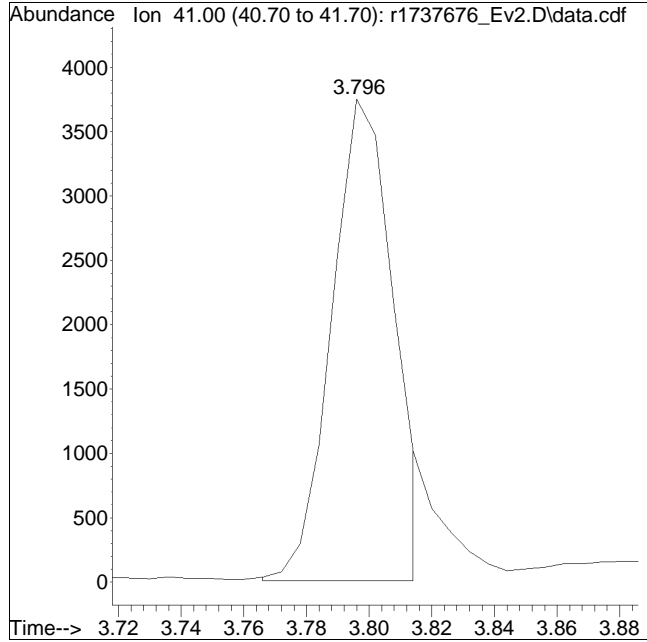
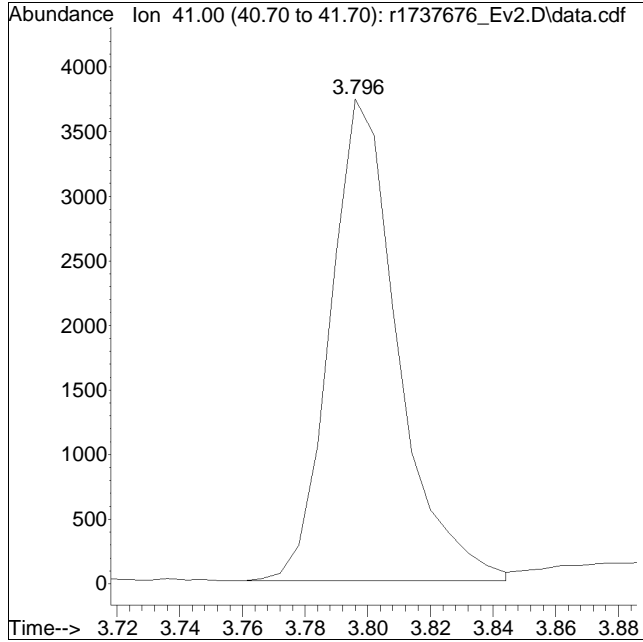
Quant Time: Jan 08 15:20:28 2024
Quant Method : O:\Forensics\Data\Airlab17\2024\01\0107SIM_I\TSIM17_240107.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Mon Jan 08 15:19:42 2024
Response via : Initial Calibration



Manual Integration Report

Data Path : O:\Forensics\Data\Airlab17QMethod : TSIM17_240107.M
Data File : r1737676_Ev2.D Operator : AIRLAB17:RAY
Date Inj'd : 1/7/2020 0:0: 4 Instrument :
Sample : ITO15-SIMSTD0.2 Quant Date : 1/8/2024 3:20 pm

Compound #2: propylene



Original Peak Response = 5599

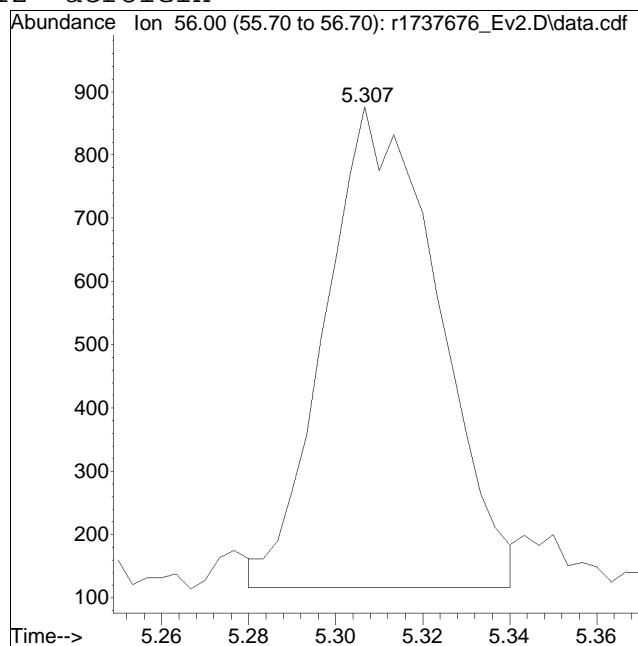
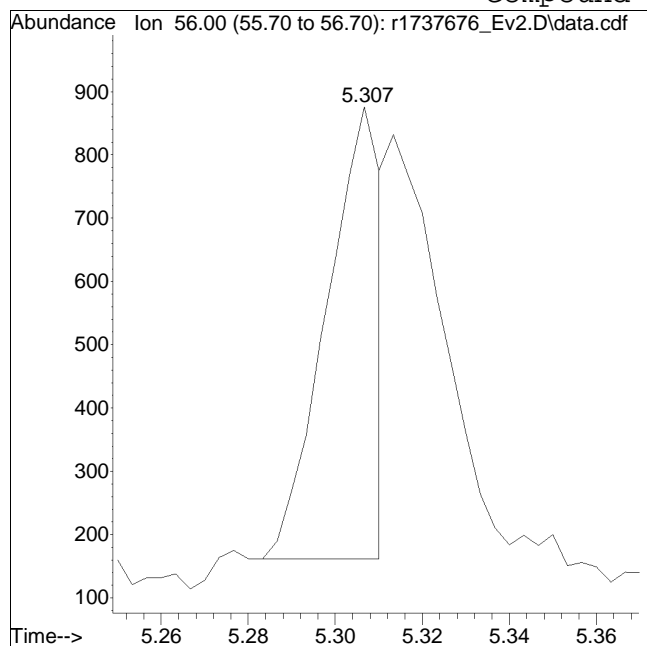
Manual Peak Response = 5154 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

Data Path : O:\Forensics\Data\Airlab17QMethod : TSIM17_240107.M
Data File : r1737676_Ev2.D Operator : AIRLAB17:RAY
Date Inj'd : 1/7/2020 0:0: 4 Instrument :
Sample : ITO15-SIMSTD0.2 Quant Date : 1/8/2024 3:20 pm

Compound #12: acrolein



Original Peak Response = 618

Manual Peak Response = 1367 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab17\2024\01\0107SIM_I\
 Data File : r1737677_Ev2.D
 Acq On : 7 Jan 2024 10:54 PM
 Operator : AIRLAB17:RAY
 Sample : ITO15-SIMSTD0.5
 Misc : WG1872081
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jan 08 15:20:38 2024
 Quant Method : O:\Forensics\Data\Airlab17\2024\01\0107SIM_I\TSIM17_240107.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Mon Jan 08 15:19:42 2024
 Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab17\2024\01\0107SIM_I\r1737679_Ev2.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	8.833	49	251097	10.000	ppbV	0.00
Standard Area = 254708			Recovery =		98.58%	
33) 1,4-difluorobenzene	11.070	114	731752	10.000	ppbV	0.00
Standard Area = 737324			Recovery =		99.24%	
51) chlorobenzene-D5	15.825	54	90462	10.000	ppbV	0.00
Standard Area = 91988			Recovery =		98.34%	
System Monitoring Compounds						
35) 1,2-dichloroethane-D4	9.700	65	208425	9.796	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =		97.96%	
53) toluene-D8	13.925	98	722818	9.851	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =		98.51%	
67) bromofluorobenzene	17.217	95	436733	9.647	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =		96.47%	
Target Compounds						
						Qvalue
2) propylene	3.796	41	8085M6	0.707	ppbV	
3) dichlorodifluoromethane	3.868	85	13343	0.505	ppbV	98
4) chloromethane	4.018	50	6529	0.498	ppbV	98
5) Freon-114	4.126	85	16395	0.507	ppbV	98
6) vinyl chloride	4.240	62	7012	0.512	ppbV	98
7) 1,3-butadiene	4.372	54	5759	0.507	ppbV	92
8) bromomethane	4.642	94	6037	0.510	ppbV	99
9) chloroethane	4.822	64	3202	0.517	ppbV	100
10) ethanol	4.936	31	33860	3.078	ppbV	99
11) vinyl bromide	5.187	106	6139	0.519	ppbV	97
12) acrolein	5.307	56	3248	0.559	ppbV	97
13) acetone	5.443	43	44303	2.928	ppbV #	99
14) trichlorofluoromethane	5.633	101	10862	0.506	ppbV	98
15) isopropyl alcohol	5.710	45	26229	1.253	ppbV	100
16) acrylonitrile	5.943	53	5765	0.524	ppbV	98
17) 1,1-dichloroethene	6.312	61	8914	0.508	ppbV	99
18) tertiary butyl alcohol	6.360	59	12464	0.542	ppbV	99
19) methylene chloride	6.450	49	8706	0.533	ppbV	99
20) 3-chloropropene	6.576	41	9264	0.495	ppbV	98
21) carbon disulfide	6.744	76	22215	0.492	ppbV #	65
22) Freon 113	6.750	101	13706	0.503	ppbV	99
23) trans-1,2-dichloroethene	7.483	61	9206	0.504	ppbV	99
24) 1,1-dichloroethane	7.708	63	11654	0.501	ppbV	98

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab17\2024\01\0107SIM_I\
 Data File : r1737677_Ev2.D
 Acq On : 7 Jan 2024 10:54 PM
 Operator : AIRLAB17:RAY
 Sample : ITO15-SIMSTD0.5
 Misc : WG1872081
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jan 08 15:20:38 2024
 Quant Method : O:\Forensics\Data\Airlab17\2024\01\0107SIM_I\TSIM17_240107.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Mon Jan 08 15:19:42 2024
 Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab17\2024\01\0107SIM_I\r1737679_Ev2.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
25) MTBE	7.783	73	17477	0.511	ppbV	#	90
26) vinyl acetate	7.892	43	15773	0.509	ppbV		100
27) 2-butanone	8.158	43	15821	0.505	ppbV		98
28) cis-1,2-dichloroethene	8.650	61	8804	0.507	ppbV		99
29) Ethyl Acetate	8.933	61	2235	0.504	ppbV	#	45
30) chloroform	8.992	83	12853	0.510	ppbV		98
31) Tetrahydrofuran	9.433	42	8755	0.494	ppbV		97
32) 1,2-dichloroethane	9.817	62	7281	0.534	ppbV		97
34) hexane	8.908	57	11224	0.514	ppbV	#	61
36) 1,1,1-trichloroethane	10.117	97	10198	0.497	ppbV		98
37) benzene	10.643	78	26678	0.506	ppbV		99
38) carbon tetrachloride	10.817	117	9906	0.488	ppbV		96
39) cyclohexane	10.963	56	12423	0.527	ppbV		98
40) Dibromomethane	11.557	93	7545	0.540	ppbV	#	100
41) 1,2-dichloropropane	11.597	63	8161	0.507	ppbV		100
42) bromodichloromethane	11.817	83	11950	0.485	ppbV		99
43) 1,4-dioxane	11.870	88	5084	0.504	ppbV		98
44) trichloroethene	11.870	130	10779	0.497	ppbV		99
45) 2,2,4-trimethylpentane	11.923	57	40918	0.584	ppbV		99
46) heptane	12.243	43	15996	0.504	ppbV		98
47) cis-1,3-dichloropropene	12.883	75	12710	0.480	ppbV		99
48) 4-methyl-2-pentanone	12.933	43	18971	0.498	ppbV		99
49) trans-1,3-dichloropropene	13.517	75	9728	0.466	ppbV		99
50) 1,1,2-trichloroethane	13.717	97	9346	0.502	ppbV		97
52) toluene	14.042	91	27829	0.510	ppbV		100
54) 2-hexanone	14.350	43	15183	0.443	ppbV		97
55) dibromochloromethane	14.500	129	10995	0.456	ppbV		99
56) 1,2-dibromoethane	14.750	107	14434	0.495	ppbV		99
57) tetrachloroethene	15.225	166	10694	0.508	ppbV		99
58) 1,1,1,2-tetrachloroethane	15.858	131	9681	0.512	ppbV		99
59) chlorobenzene	15.875	112	24485	0.505	ppbV		96
60) ethylbenzene	16.225	91	34407	0.495	ppbV		98
61) m+p-xylene	16.392	91	54559	1.003	ppbV		100
62) bromoform	16.458	173	7223	0.420	ppbV		98
63) styrene	16.717	104	22819	0.481	ppbV		98
64) 1,1,2,2-tetrachloroethane	16.808	83	20740	0.507	ppbV		99
65) o-xylene	16.808	91	27836	0.505	ppbV		99
66) 1,2,3-Trichloropropane	16.925	75	16351	0.540	ppbV		99
68) isopropylbenzene	17.333	105	38220	0.541	ppbV		100
69) Bromobenzene	17.400	77	21082	0.543	ppbV		100

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab17\2024\01\0107SIM_I\
 Data File : r1737677_Ev2.D
 Acq On : 7 Jan 2024 10:54 PM
 Operator : AIRLAB17:RAY
 Sample : ITO15-SIMSTD0.5
 Misc : WG1872081
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jan 08 15:20:38 2024
 Quant Method : O:\Forensics\Data\Airlab17\2024\01\0107SIM_I\TSIM17_240107.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Mon Jan 08 15:19:42 2024
 Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab17\2024\01\0107SIM_I\r1737679_Ev2.D
 Sub List : Default - All compounds listed

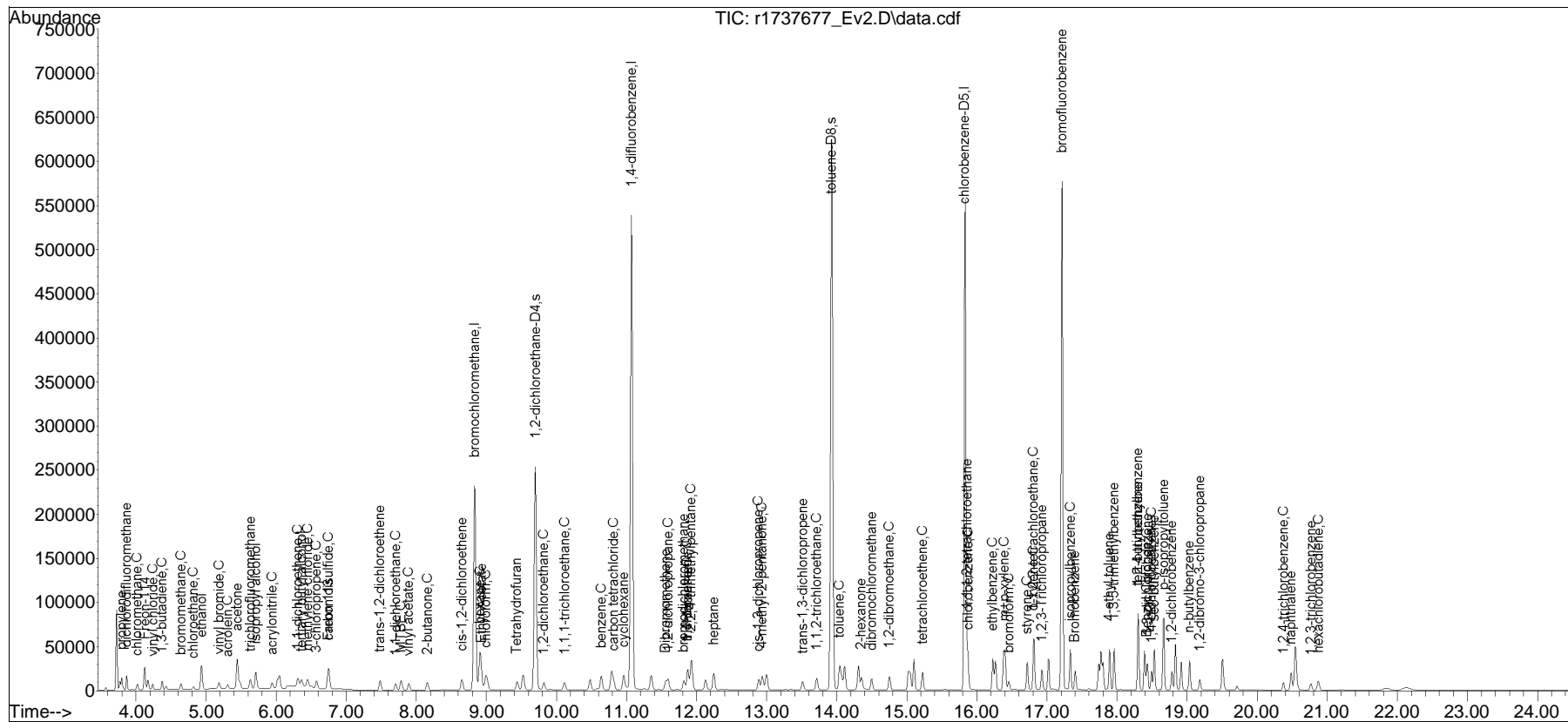
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
70) 4-ethyl toluene	17.892	105	38379	0.509	ppbV	98
71) 1,3,5-trimethylbenzene	17.958	105	33747	0.514	ppbV	99
72) tert-butylbenzene	18.300	119	33824	0.543	ppbV	98
73) 1,2,4-trimethylbenzene	18.300	105	33338	0.504	ppbV	91
74) Benzyl Chloride	18.425	91	14396	0.420	ppbV	99
75) 1,3-dichlorobenzene	18.433	146	18594	0.475	ppbV	93
76) 1,4-dichlorobenzene	18.492	146	17716	0.466	ppbV	96
77) sec-butylbenzene	18.533	105	48481	0.549	ppbV	100
78) p-isopropyltoluene	18.667	119	40566	0.548	ppbV	100
79) 1,2-dichlorobenzene	18.783	146	18173	0.500	ppbV	97
80) n-butylbenzene	19.033	91	34332	0.538	ppbV	99
81) 1,2-dibromo-3-chloropr...	19.183	75	6929	0.500	ppbV	97
82) 1,2,4-trichlorobenzene	20.375	180	10461	0.438	ppbV	99
83) naphthalene	20.483	128	33159	0.539	ppbV	100
84) 1,2,3-trichlorobenzene	20.767	180	10066	0.565	ppbV	98
85) hexachlorobutadiene	20.875	225	11654	0.500	ppbV	98

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

Sub List : Default - All compounds listed4\01\0107SIM_I\r1737679_Ev2.D

Data Path : O:\Forensics\Data\Airlab17\2024\01\0107SIM_I\
Data File : r1737677_Ev2.D
Acq On : 7 Jan 2024 10:54 PM
Operator : AIRLAB17:RAY
Sample : ITO15-SIMSTD0.5
Misc : WG1872081
ALS Vial : 0 Sample Multiplier: 1

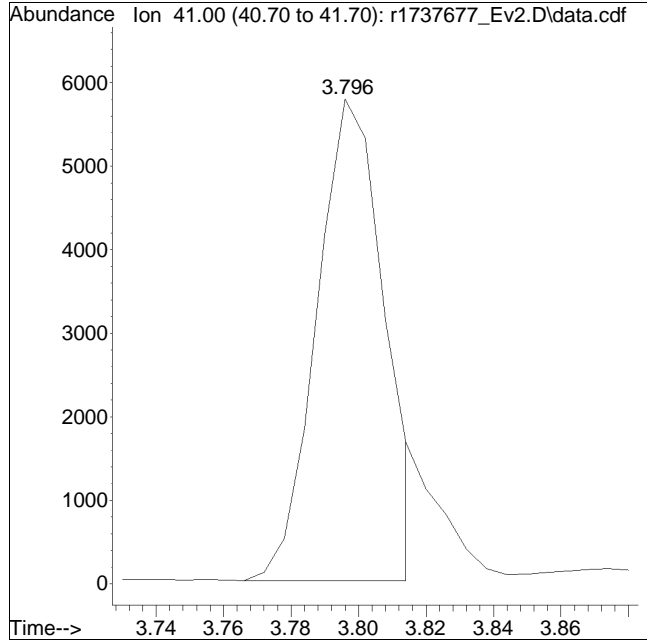
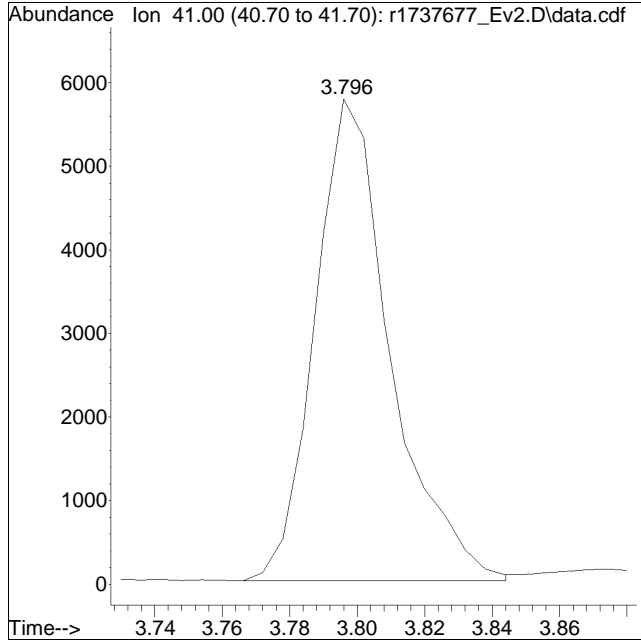
Quant Time: Jan 08 15:20:38 2024
Quant Method : O:\Forensics\Data\Airlab17\2024\01\0107SIM_I\TSIM17_240107.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Mon Jan 08 15:19:42 2024
Response via : Initial Calibration



Manual Integration Report

Data Path : O:\Forensics\Data\Airlab17QMethod : TSIM17_240107.M
Data File : r1737677_Ev2.D Operator : AIRLAB17:RAY
Date Inj'd : 1/7/2020 0:0: 4 Instrument :
Sample : ITO15-SIMSTD0.5 Quant Date : 1/8/2024 3:20 pm

Compound #2: propylene



Original Peak Response = 8968

Manual Peak Response = 8085 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab17\2024\01\0107SIM_I\
 Data File : r1737678_Ev2.D
 Acq On : 7 Jan 2024 11:36 PM
 Operator : AIRLAB17:RAY
 Sample : ITO15-SIMSTD1.0
 Misc : WG1872081
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jan 08 15:20:56 2024
 Quant Method : O:\Forensics\Data\Airlab17\2024\01\0107SIM_I\TSIM17_240107.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Mon Jan 08 15:19:42 2024
 Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab17\2024\01\0107SIM_I\r1737679_Ev2.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	8.833	49	244534	10.000	ppbV	0.00
Standard Area = 254708			Recovery =		96.01%	
33) 1,4-difluorobenzene	11.070	114	709519	10.000	ppbV	0.00
Standard Area = 737324			Recovery =		96.23%	
51) chlorobenzene-D5	15.833	54	87349	10.000	ppbV	0.00
Standard Area = 91988			Recovery =		94.96%	
System Monitoring Compounds						
35) 1,2-dichloroethane-D4	9.700	65	209491	10.155	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =		101.55%	
53) toluene-D8	13.933	98	722698	10.200	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =		102.00%	
67) bromofluorobenzene	17.217	95	444094	10.160	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =		101.60%	
Target Compounds						
2) propylene	3.796	41	13765M6	1.235	ppbV	
3) dichlorodifluoromethane	3.868	85	25778	1.002	ppbV	98
4) chloromethane	4.018	50	12856	1.006	ppbV	99
5) Freon-114	4.120	85	31721	1.008	ppbV	98
6) vinyl chloride	4.234	62	13418	1.007	ppbV	99
7) 1,3-butadiene	4.372	54	11281	1.020	ppbV	95
8) bromomethane	4.642	94	11614	1.007	ppbV	100
9) chloroethane	4.822	64	6159	1.022	ppbV	97
10) ethanol	4.930	31	62903	5.872	ppbV	98
11) vinyl bromide	5.187	106	11751	1.020	ppbV	100
12) acrolein	5.307	56	5941	1.049	ppbV	96
13) acetone	5.443	43	85387	5.795	ppbV	99
14) trichlorofluoromethane	5.637	101	20880	0.999	ppbV	99
15) isopropyl alcohol	5.707	45	51451	2.523	ppbV	99
16) acrylonitrile	5.943	53	11476	1.070	ppbV	99
17) 1,1-dichloroethene	6.312	61	17324	1.013	ppbV	99
18) tertiary butyl alcohol	6.354	59	23898	1.068	ppbV	99
19) methylene chloride	6.450	49	16415	1.033	ppbV	99
20) 3-chloropropene	6.582	41	18202	0.998	ppbV	99
21) carbon disulfide	6.744	76	43218	0.983	ppbV #	83
22) Freon 113	6.750	101	26685	1.006	ppbV	99
23) trans-1,2-dichloroethene	7.483	61	18010	1.012	ppbV	97
24) 1,1-dichloroethane	7.708	63	22663	1.000	ppbV	99

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab17\2024\01\0107SIM_I\
 Data File : r1737678_Ev2.D
 Acq On : 7 Jan 2024 11:36 PM
 Operator : AIRLAB17:RAY
 Sample : ITO15-SIMSTD1.0
 Misc : WG1872081
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jan 08 15:20:56 2024
 Quant Method : O:\Forensics\Data\Airlab17\2024\01\0107SIM_I\TSIM17_240107.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Mon Jan 08 15:19:42 2024
 Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab17\2024\01\0107SIM_I\r1737679_Ev2.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) MTBE	7.783	73	33797	1.014	ppbV #	91
26) vinyl acetate	7.892	43	30969	1.026	ppbV	99
27) 2-butanone	8.150	43	30635	1.004	ppbV	99
28) cis-1,2-dichloroethene	8.650	61	16775	0.991	ppbV	98
29) Ethyl Acetate	8.933	61	4221	0.978	ppbV #	52
30) chloroform	8.992	83	24734	1.008	ppbV	100
31) Tetrahydrofuran	9.433	42	16940	0.982	ppbV	100
32) 1,2-dichloroethane	9.825	62	13652	1.029	ppbV	99
34) hexane	8.908	57	21690	1.024	ppbV #	68
36) 1,1,1-trichloroethane	10.117	97	19870	0.999	ppbV	99
37) benzene	10.643	78	51729	1.012	ppbV	99
38) carbon tetrachloride	10.817	117	18927	0.962	ppbV	98
39) cyclohexane	10.963	56	23432	1.026	ppbV	97
40) Dibromomethane	11.563	93	14418	1.063	ppbV #	99
41) 1,2-dichloropropane	11.597	63	15677	1.004	ppbV	98
42) bromodichloromethane	11.823	83	23214	0.972	ppbV	100
43) 1,4-dioxane	11.870	88	9634	0.985	ppbV	98
44) trichloroethene	11.877	130	20997	0.999	ppbV	97
45) 2,2,4-trimethylpentane	11.930	57	78378	1.153	ppbV	100
46) heptane	12.250	43	31631	1.027	ppbV	99
47) cis-1,3-dichloropropene	12.892	75	24774	0.965	ppbV	99
48) 4-methyl-2-pentanone	12.942	43	36317	0.984	ppbV	99
49) trans-1,3-dichloropropene	13.517	75	18970	0.937	ppbV	99
50) 1,1,2-trichloroethane	13.717	97	18026	0.999	ppbV	99
52) toluene	14.042	91	53316	1.012	ppbV	100
54) 2-hexanone	14.350	43	31164	0.941	ppbV	99
55) dibromochloromethane	14.500	129	21744	0.933	ppbV	99
56) 1,2-dibromoethane	14.758	107	27871	0.989	ppbV	99
57) tetrachloroethene	15.225	166	20591	1.014	ppbV	99
58) 1,1,1,2-tetrachloroethane	15.858	131	19049	1.043	ppbV	98
59) chlorobenzene	15.875	112	47164	1.007	ppbV	97
60) ethylbenzene	16.233	91	66586	0.992	ppbV	98
61) m+p-xylene	16.392	91	106034	2.019	ppbV	99
62) bromoform	16.458	173	14563	0.876	ppbV	99
63) styrene	16.717	104	44783	0.978	ppbV	99
64) 1,1,2,2-tetrachloroethane	16.808	83	39823	1.008	ppbV	99
65) o-xylene	16.817	91	53551	1.005	ppbV	97
66) 1,2,3-Trichloropropane	16.925	75	31725	1.084	ppbV	100
68) isopropylbenzene	17.333	105	73318	1.076	ppbV	100
69) Bromobenzene	17.408	77	40298	1.074	ppbV	100

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab17\2024\01\0107SIM_I\
 Data File : r1737678_Ev2.D
 Acq On : 7 Jan 2024 11:36 PM
 Operator : AIRLAB17:RAY
 Sample : ITO15-SIMSTD1.0
 Misc : WG1872081
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jan 08 15:20:56 2024
 Quant Method : O:\Forensics\Data\Airlab17\2024\01\0107SIM_I\TSIM17_240107.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Mon Jan 08 15:19:42 2024
 Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab17\2024\01\0107SIM_I\r1737679_Ev2.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
70) 4-ethyl toluene	17.892	105	74721	1.025	ppbV	97
71) 1,3,5-trimethylbenzene	17.958	105	64349	1.014	ppbV	98
72) tert-butylbenzene	18.300	119	65072	1.082	ppbV	99
73) 1,2,4-trimethylbenzene	18.300	105	64201	1.005	ppbV	92
74) Benzyl Chloride	18.425	91	29853	0.901	ppbV	100
75) 1,3-dichlorobenzene	18.433	146	37366	0.990	ppbV	94
76) 1,4-dichlorobenzene	18.492	146	35256	0.960	ppbV	97
77) sec-butylbenzene	18.525	105	94080	1.104	ppbV	94
78) p-isopropyltoluene	18.667	119	78560	1.098	ppbV	100
79) 1,2-dichlorobenzene	18.783	146	35554	1.014	ppbV	97
80) n-butylbenzene	19.033	91	67724	1.098	ppbV	97
81) 1,2-dibromo-3-chloropr...	19.175	75	14401	1.076	ppbV	98
82) 1,2,4-trichlorobenzene	20.375	180	21653	0.940	ppbV	100
83) naphthalene	20.483	128	69205	1.166	ppbV	100
84) 1,2,3-trichlorobenzene	20.767	180	20457	1.189	ppbV	99
85) hexachlorobutadiene	20.867	225	22287	0.991	ppbV	99

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

Sub List : Default - All compounds listed4\01\0107SIM_I\r1737679_Ev2.D

Data Path : O:\Forensics\Data\Airlab17\2024\01\0107SIM_I\

Data File : r1737678_Ev2.D

Acq On : 7 Jan 2024 11:36 PM

Operator : AIRLAB17:RAY

Sample : ITO15-SIMSTD1.0

Misc : WG1872081

ALS Vial : 0 Sample Multiplier: 1

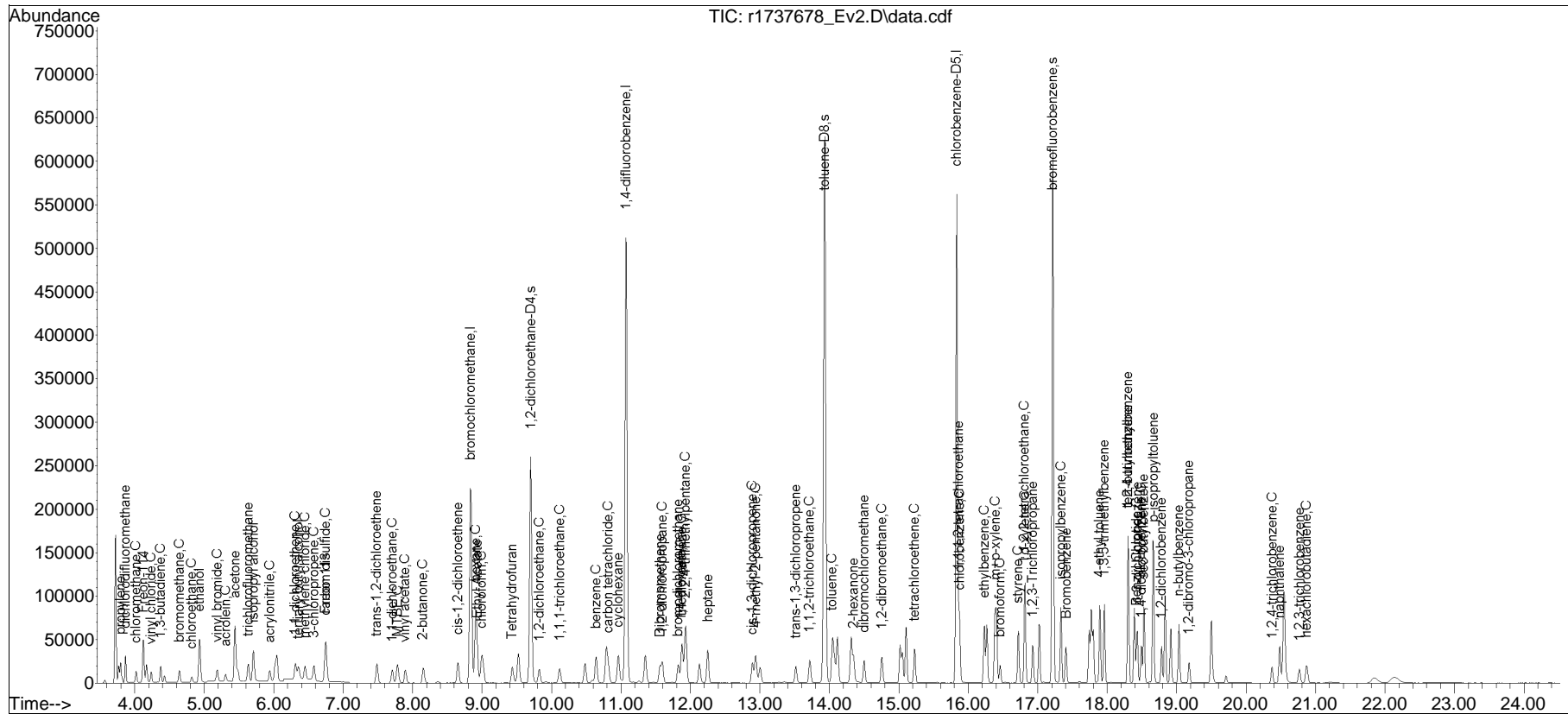
Quant Time: Jan 08 15:20:56 2024

Quant Method : O:\Forensics\Data\Airlab17\2024\01\0107SIM_I\TSIM17_240107.M

Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis

QLast Update : Mon Jan 08 15:19:42 2024

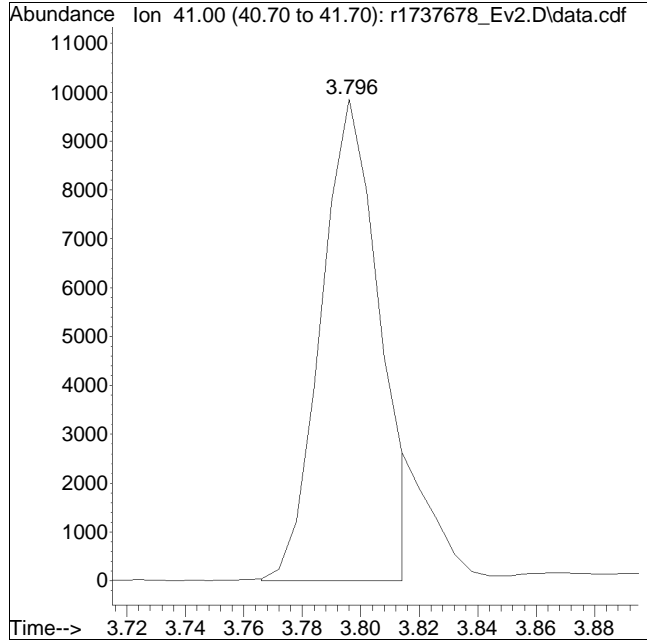
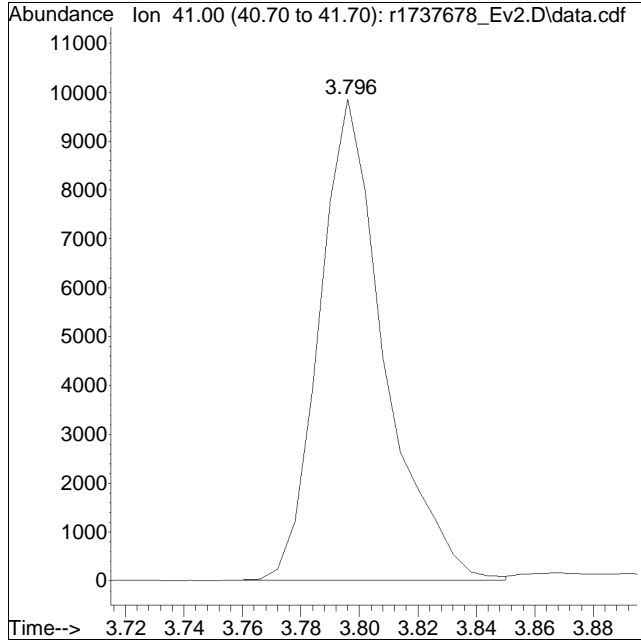
Response via : Initial Calibration



Manual Integration Report

Data Path : O:\Forensics\Data\Airlab17QMethod : TSIM17_240107.M
Data File : r1737678_Ev2.D Operator : AIRLAB17:RAY
Date Inj'd : 1/7/2020 0:1: 6 Instrument :
Sample : ITO15-SIMSTD1.0 Quant Date : 1/8/2024 3:20 pm

Compound #2: propylene



Original Peak Response = 15111

Manual Peak Response = 13765 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab17\2024\01\0107SIM_I\
 Data File : r1737679_Ev2.D
 Acq On : 8 Jan 2024 12:15 AM
 Operator : AIRLAB17:RAY
 Sample : ITO15-SIMSTD5.0
 Misc : WG1872081
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jan 08 15:17:00 2024
 Quant Method : O:\Forensics\Data\Airlab17\2024\01\0107SIM_I\TSIM17_240107.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Mon Nov 06 10:47:13 2023
 Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab17\2024\01\0107SIM_I\r1737679_Ev2.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	8.833	49	254708	10.000	ppbV	0.02
Standard Area =	254708		Recovery =	100.00%		
33) 1,4-difluorobenzene	11.070	114	737324	10.000	ppbV	0.02
Standard Area =	737324		Recovery =	100.00%		
51) chlorobenzene-D5	15.825	54	91988	10.000	ppbV	0.00
Standard Area =	91988		Recovery =	100.00%		
System Monitoring Compounds						
35) 1,2-dichloroethane-D4	9.692	65	214380	8.720	ppbV	0.02
Spiked Amount	10.000	Range 70 - 130	Recovery =	87.20%		
53) toluene-D8	13.925	98	746158	8.959	ppbV	0.02
Spiked Amount	10.000	Range 70 - 130	Recovery =	89.59%		
67) bromofluorobenzene	17.208	95	460327	8.661	ppbV	0.00
Spiked Amount	10.000	Range 70 - 130	Recovery =	86.61%		
Target Compounds						
						Qvalue
2) propylene	3.796	41	58040M6	4.459	ppbV	
3) dichlorodifluoromethane	3.862	85	133995	4.755	ppbV	99
4) chloromethane	4.018	50	66536	4.565	ppbV	99
5) Freon-114	4.120	85	163908	4.491	ppbV	97
6) vinyl chloride	4.234	62	69420	4.298	ppbV	100
7) 1,3-butadiene	4.372	54	57615	4.345	ppbV	99
8) bromomethane	4.642	94	60079	4.264	ppbV	100
9) chloroethane	4.816	64	31389	4.412	ppbV	98
10) ethanol	4.930	31	278965	23.471	ppbV	97
11) vinyl bromide	5.187	106	60028	4.377	ppbV	99
12) acrolein	5.303	56	29491	3.803	ppbV	97
13) acetone	5.433	43	383677	24.420	ppbV	93
14) trichlorofluoromethane	5.630	101	108807	4.665	ppbV	99
15) isopropyl alcohol	5.700	45	265480	11.262	ppbV	100
16) acrylonitrile	5.940	53	55849	4.135	ppbV	99
17) 1,1-dichloroethene	6.312	61	89045	4.424	ppbV	99
18) tertiary butyl alcohol	6.348	59	116553	4.610	ppbV	92
19) methylene chloride	6.450	49	82779	4.098	ppbV	93
20) 3-chloropropene	6.576	41	95004	4.560	ppbV	97
21) carbon disulfide	6.744	76	228970	5.082	ppbV	99
22) Freon 113	6.750	101	138169	4.499	ppbV	99
23) trans-1,2-dichloroethene	7.483	61	92676	4.214	ppbV	98
24) 1,1-dichloroethane	7.700	63	117979	4.225	ppbV	99

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab17\2024\01\0107SIM_I\
 Data File : r1737679_Ev2.D
 Acq On : 8 Jan 2024 12:15 AM
 Operator : AIRLAB17:RAY
 Sample : ITO15-SIMSTD5.0
 Misc : WG1872081
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jan 08 15:17:00 2024
 Quant Method : O:\Forensics\Data\Airlab17\2024\01\0107SIM_I\TSIM17_240107.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Mon Nov 06 10:47:13 2023
 Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab17\2024\01\0107SIM_I\r1737679_Ev2.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) MTBE	7.775	73	173576	4.478	ppbV	98
26) vinyl acetate	7.892	43	157189	4.720	ppbV	98
27) 2-butanone	8.142	43	158897	4.634	ppbV	99
28) cis-1,2-dichloroethene	8.650	61	88145	4.239	ppbV	95
29) Ethyl Acetate	8.917	61	22473	4.538	ppbV	81
30) chloroform	8.992	83	127771	4.243	ppbV	98
31) Tetrahydrofuran	9.417	42	89823	4.527	ppbV	98
32) 1,2-dichloroethane	9.817	62	69122	4.035	ppbV	98
34) hexane	8.908	57	110077	4.409	ppbV	88
36) 1,1,1-trichloroethane	10.108	97	103302	4.327	ppbV	100
37) benzene	10.637	78	265680	4.407	ppbV	100
38) carbon tetrachloride	10.817	117	102217	4.645	ppbV	99
39) cyclohexane	10.957	56	118654	4.407	ppbV	97
40) Dibromomethane	11.557	93	70450	3.943	ppbV #	99
41) 1,2-dichloropropane	11.590	63	81122	4.181	ppbV	99
42) bromodichloromethane	11.817	83	124076	4.650	ppbV	100
43) 1,4-dioxane	11.857	88	50838	4.290	ppbV	100
44) trichloroethene	11.870	130	109245	4.221	ppbV	97
45) 2,2,4-trimethylpentane	11.923	57	353232	4.428	ppbV	97
46) heptane	12.243	43	159996	4.517	ppbV	99
47) cis-1,3-dichloropropene	12.883	75	133433	4.863	ppbV	97
48) 4-methyl-2-pentanone	12.925	43	191846	4.601	ppbV	100
49) trans-1,3-dichloropropene	13.508	75	105147	4.782	ppbV	96
50) 1,1,2-trichloroethane	13.708	97	93723	4.307	ppbV	95
52) toluene	14.042	91	277491	4.551	ppbV	100
54) 2-hexanone	14.333	43	174370	4.734	ppbV	98
55) dibromochloromethane	14.500	129	122673	5.139	ppbV	99
56) 1,2-dibromoethane	14.750	107	148334	4.592	ppbV	97
57) tetrachloroethene	15.225	166	106940	4.216	ppbV	98
58) 1,1,1,2-tetrachloroethane	15.858	131	96149	4.452	ppbV	99
59) chlorobenzene	15.867	112	246709	4.330	ppbV	96
60) ethylbenzene	16.225	91	353297	4.489	ppbV	97
61) m+p-xylene	16.392	91	553082	8.820	ppbV	99
62) bromoform	16.450	173	87487	5.549	ppbV	100
63) styrene	16.717	104	241169	4.546	ppbV	99
64) 1,1,2,2-tetrachloroethane	16.808	83	208128	4.385	ppbV	99
65) o-xylene	16.808	91	280509	4.427	ppbV	96
66) 1,2,3-Trichloropropane	16.925	75	154035	4.208	ppbV	98
68) isopropylbenzene	17.325	105	358866	4.196	ppbV	99
69) Bromobenzene	17.400	77	197578	4.165	ppbV	96

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab17\2024\01\0107SIM_I\
 Data File : r1737679_Ev2.D
 Acq On : 8 Jan 2024 12:15 AM
 Operator : AIRLAB17:RAY
 Sample : ITO15-SIMSTD5.0
 Misc : WG1872081
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jan 08 15:17:00 2024
 Quant Method : O:\Forensics\Data\Airlab17\2024\01\0107SIM_I\TSIM17_240107.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Mon Nov 06 10:47:13 2023
 Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab17\2024\01\0107SIM_I\r1737679_Ev2.D
 Sub List : Default - All compounds listed

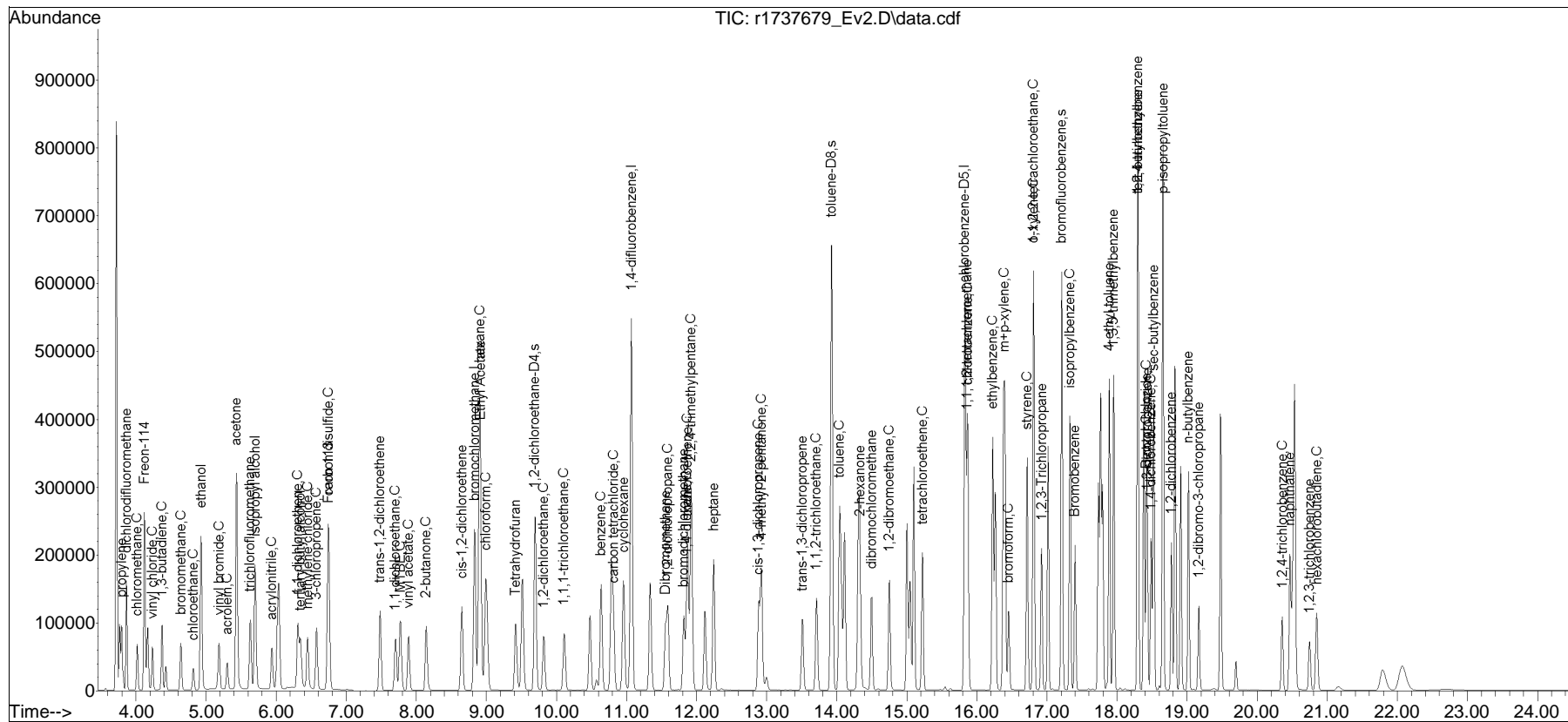
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
70) 4-ethyl toluene	17.892	105	383698	4.288	ppbV	99
71) 1,3,5-trimethylbenzene	17.950	105	334016	4.299	ppbV	99
72) tert-butylbenzene	18.300	119	316663	4.144	ppbV	98
73) 1,2,4-trimethylbenzene	18.300	105	336356	4.417	ppbV	99
74) Benzyl Chloride	18.417	91	174394	5.454	ppbV	99
75) 1,3-dichlorobenzene	18.433	146	198824	4.276	ppbV	99
76) 1,4-dichlorobenzene	18.483	146	193419	4.294	ppbV	98
77) sec-butylbenzene	18.525	105	448647	4.138	ppbV	99
78) p-isopropyltoluene	18.658	119	376661	4.111	ppbV	99
79) 1,2-dichlorobenzene	18.775	146	184662	4.174	ppbV	98
80) n-butylbenzene	19.017	91	324633	4.183	ppbV	98
81) 1,2-dibromo-3-chloropr...	19.167	75	70487	5.143	ppbV	94
82) 1,2,4-trichlorobenzene	20.358	180	121308	4.310	ppbV	99
83) naphthalene	20.467	128	312588	3.346	ppbV	100
84) 1,2,3-trichlorobenzene	20.750	180	90608	3.648	ppbV	98
85) hexachlorobutadiene	20.850	225	118460	4.487	ppbV	97

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

Sub List : Default - All compounds listed4\01\0107SIM_I\r1737679_Ev2.D

Data Path : O:\Forensics\Data\Airlab17\2024\01\0107SIM_I\
Data File : r1737679_Ev2.D
Acq On : 8 Jan 2024 12:15 AM
Operator : AIRLAB17:RAY
Sample : ITO15-SIMSTD5.0
Misc : WG1872081
ALS Vial : 0 Sample Multiplier: 1

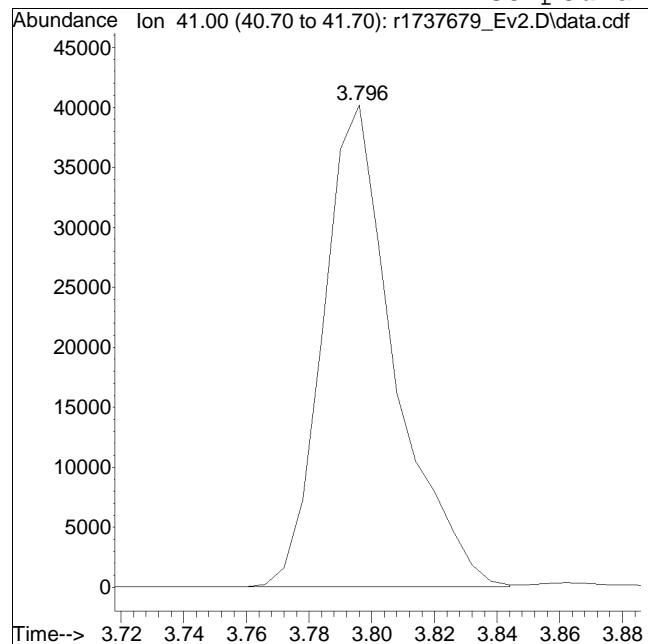
Quant Time: Jan 08 15:17:00 2024
Quant Method : O:\Forensics\Data\Airlab17\2024\01\0107SIM_I\TSIM17_240107.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Mon Nov 06 10:47:13 2023
Response via : Initial Calibration



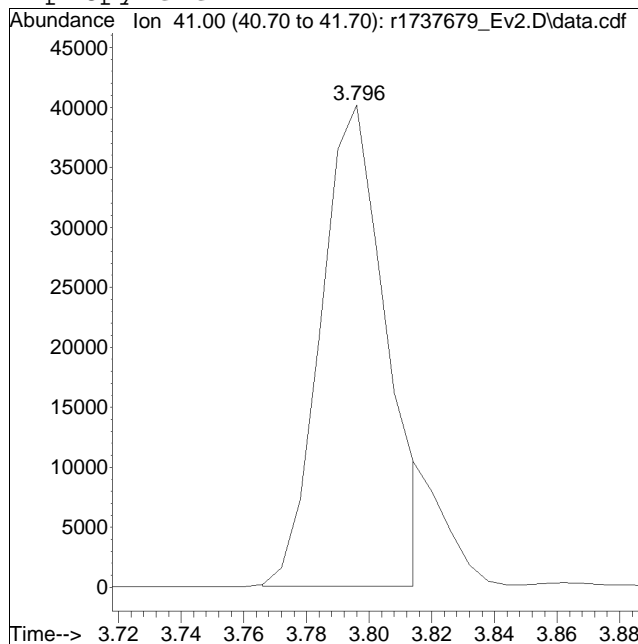
Manual Integration Report

Data Path : O:\Forensics\Data\Airlab17QMethod : TSIM17_240107.M
Data File : r1737679_Ev2.D Operator : AIRLAB17:RAY
Date Inj'd : 1/8/2020 0:2: 5 Instrument :
Sample : ITO15-SIMSTD5.0 Quant Date : 1/8/2024 3:17 pm

Compound #2: propylene



Original Peak Response = 63615



Manual Peak Response = 58040 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab17\2024\01\0107SIM_I\
 Data File : r1737680_Ev2.D
 Acq On : 8 Jan 2024 12:56 AM
 Operator : AIRLAB17:RAY
 Sample : ITO15-SIMSTD10.0
 Misc : WG1872081
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jan 08 15:21:10 2024
 Quant Method : O:\Forensics\Data\Airlab17\2024\01\0107SIM_I\TSIM17_240107.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Mon Jan 08 15:19:42 2024
 Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab17\2024\01\0107SIM_I\r1737679_Ev2.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	8.833	49	251858	10.000	ppbV	0.00
Standard Area =	254708		Recovery =		98.88%	
33) 1,4-difluorobenzene	11.070	114	723971	10.000	ppbV	0.00
Standard Area =	737324		Recovery =		98.19%	
51) chlorobenzene-D5	15.825	54	90794	10.000	ppbV	0.00
Standard Area =	91988		Recovery =		98.70%	
System Monitoring Compounds						
35) 1,2-dichloroethane-D4	9.692	65	207163	9.842	ppbV	0.00
Spiked Amount	10.000	Range 70 - 130	Recovery =		98.42%	
53) toluene-D8	13.925	98	724326	9.835	ppbV	0.00
Spiked Amount	10.000	Range 70 - 130	Recovery =		98.35%	
67) bromofluorobenzene	17.208	95	452390	9.957	ppbV	0.00
Spiked Amount	10.000	Range 70 - 130	Recovery =		99.57%	
Target Compounds						
						Qvalue
2) propylene	3.790	41	106206M6	9.253	ppbV	
3) dichlorodifluoromethane	3.862	85	258063	9.739	ppbV	99
4) chloromethane	4.018	50	130987	9.955	ppbV	100
5) Freon-114	4.120	85	320900	9.900	ppbV	98
6) vinyl chloride	4.234	62	136845	9.968	ppbV	100
7) 1,3-butadiene	4.372	54	114020	10.007	ppbV	97
8) bromomethane	4.636	94	118803	9.999	ppbV	99
9) chloroethane	4.816	64	62283	10.033	ppbV	100
10) ethanol	4.924	31	497338	45.074	ppbV	99
11) vinyl bromide	5.183	106	118372	9.971	ppbV	99
12) acrolein	5.300	56	58697	10.064	ppbV	99
13) acetone	5.430	43	755551	49.788	ppbV	99
14) trichlorofluoromethane	5.630	101	214187	9.954	ppbV	100
15) isopropyl alcohol	5.697	45	526204	25.056	ppbV	100
16) acrylonitrile	5.937	53	113074	10.238	ppbV	99
17) 1,1-dichloroethene	6.306	61	175896	9.989	ppbV	98
18) tertiary butyl alcohol	6.342	59	229405	9.953	ppbV	100
19) methylene chloride	6.444	49	163179	9.968	ppbV	98
20) 3-chloropropene	6.576	41	188734	10.045	ppbV	99
21) carbon disulfide	6.744	76	456500	10.081	ppbV	98
22) Freon 113	6.744	101	272127	9.959	ppbV	100
23) trans-1,2-dichloroethene	7.483	61	183645	10.020	ppbV	98
24) 1,1-dichloroethane	7.700	63	233194	9.995	ppbV	99

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab17\2024\01\0107SIM_I\
 Data File : r1737680_Ev2.D
 Acq On : 8 Jan 2024 12:56 AM
 Operator : AIRLAB17:RAY
 Sample : ITO15-SIMSTD10.0
 Misc : WG1872081
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jan 08 15:21:10 2024
 Quant Method : O:\Forensics\Data\Airlab17\2024\01\0107SIM_I\TSIM17_240107.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Mon Jan 08 15:19:42 2024
 Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab17\2024\01\0107SIM_I\r1737679_Ev2.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) MTBE	7.767	73	343871	10.018	ppbV	98
26) vinyl acetate	7.892	43	317356	10.209	ppbV	99
27) 2-butanone	8.142	43	318596	10.139	ppbV	99
28) cis-1,2-dichloroethene	8.650	61	174555	10.014	ppbV	99
29) Ethyl Acetate	8.917	61	44955	10.115	ppbV	88
30) chloroform	8.992	83	252065	9.976	ppbV	99
31) Tetrahydrofuran	9.408	42	178938	10.073	ppbV	98
32) 1,2-dichloroethane	9.817	62	136682	9.999	ppbV	100
34) hexane	8.900	57	217131	10.045	ppbV	87
36) 1,1,1-trichloroethane	10.108	97	205288	10.120	ppbV	99
37) benzene	10.637	78	526879	10.099	ppbV	100
38) carbon tetrachloride	10.810	117	206588	10.292	ppbV	98
39) cyclohexane	10.957	56	234085	10.046	ppbV	100
40) Dibromomethane	11.557	93	140248	10.137	ppbV #	99
41) 1,2-dichloropropane	11.590	63	161670	10.148	ppbV	100
42) bromodichloromethane	11.817	83	251136	10.307	ppbV	99
43) 1,4-dioxane	11.850	88	101491	10.166	ppbV	98
44) trichloroethene	11.870	130	217089	10.119	ppbV	99
45) 2,2,4-trimethylpentane	11.923	57	695795	10.031	ppbV	100
46) heptane	12.243	43	319240	10.161	ppbV	99
47) cis-1,3-dichloropropene	12.883	75	268484	10.246	ppbV	99
48) 4-methyl-2-pentanone	12.917	43	383790	10.187	ppbV	99
49) trans-1,3-dichloropropene	13.508	75	213863	10.357	ppbV	99
50) 1,1,2-trichloroethane	13.708	97	186370	10.126	ppbV	99
52) toluene	14.042	91	547605	9.997	ppbV	100
54) 2-hexanone	14.325	43	354568	10.301	ppbV	100
55) dibromochloromethane	14.492	129	253814	10.481	ppbV	99
56) 1,2-dibromoethane	14.750	107	295418	10.089	ppbV	99
57) tetrachloroethene	15.225	166	211241	10.006	ppbV	99
58) 1,1,1,2-tetrachloroethane	15.858	131	194706	10.258	ppbV	99
59) chlorobenzene	15.867	112	487885	10.018	ppbV	100
60) ethylbenzene	16.225	91	708459	10.158	ppbV	100
61) m+p-xylene	16.392	91	1121307	20.540	ppbV	99
62) bromoform	16.450	173	184428	10.679	ppbV	99
63) styrene	16.717	104	486587	10.221	ppbV	100
64) 1,1,2,2-tetrachloroethane	16.808	83	414340	10.085	ppbV	100
65) o-xylene	16.808	91	560840	10.128	ppbV	98
66) 1,2,3-Trichloropropane	16.917	75	305725	10.054	ppbV	100
68) isopropylbenzene	17.325	105	704801	9.949	ppbV	99
69) Bromobenzene	17.400	77	391388	10.035	ppbV	100

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab17\2024\01\0107SIM_I\
 Data File : r1737680_Ev2.D
 Acq On : 8 Jan 2024 12:56 AM
 Operator : AIRLAB17:RAY
 Sample : ITO15-SIMSTD10.0
 Misc : WG1872081
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jan 08 15:21:10 2024
 Quant Method : O:\Forensics\Data\Airlab17\2024\01\0107SIM_I\TSIM17_240107.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Mon Jan 08 15:19:42 2024
 Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab17\2024\01\0107SIM_I\r1737679_Ev2.D
 Sub List : Default - All compounds listed

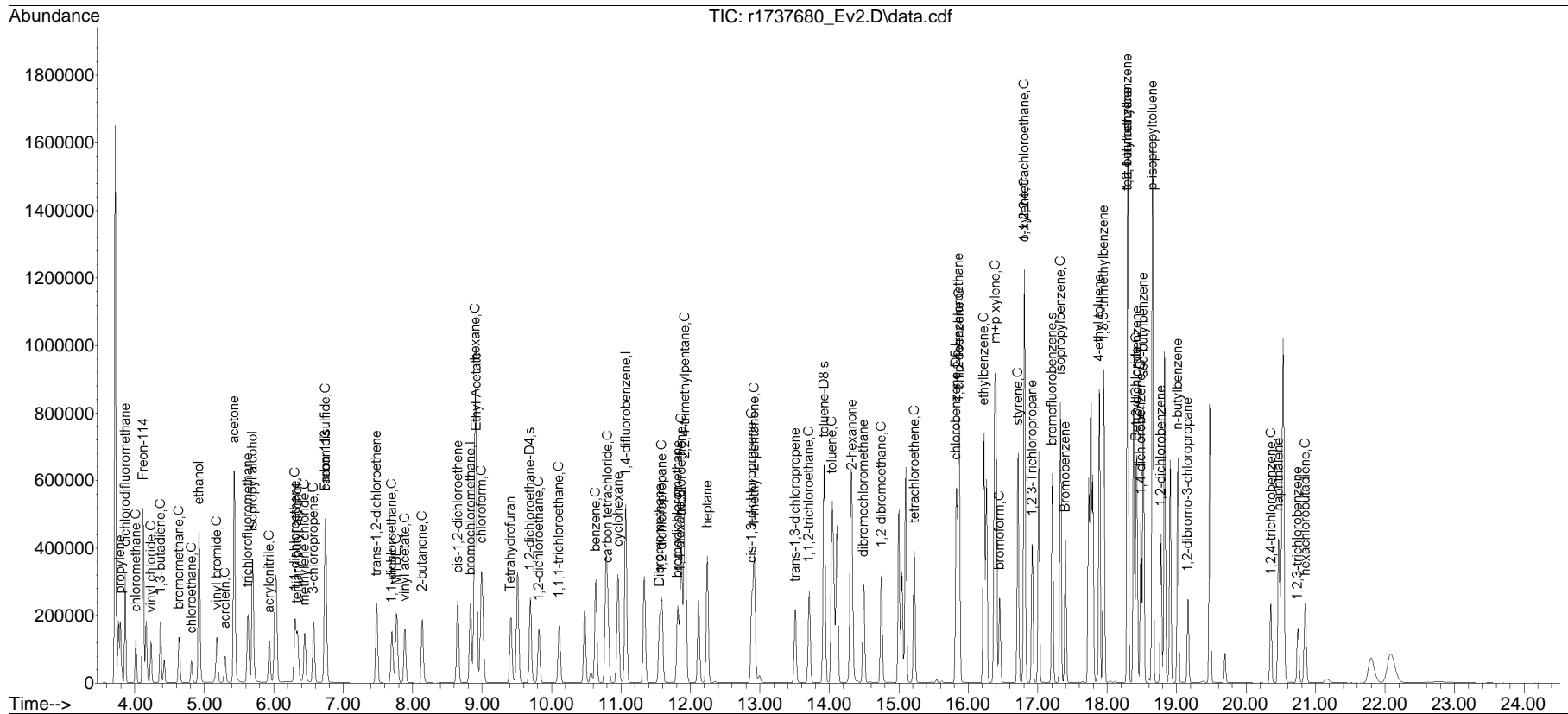
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
70) 4-ethyl toluene	17.883	105	758198	10.010	ppbV	98
71) 1,3,5-trimethylbenzene	17.950	105	655493	9.941	ppbV	99
72) tert-butylbenzene	18.292	119	618648	9.897	ppbV	99
73) 1,2,4-trimethylbenzene	18.292	105	657267	9.899	ppbV	93
74) Benzyl Chloride	18.417	91	378446	10.993	ppbV	98
75) 1,3-dichlorobenzene	18.425	146	400988	10.217	ppbV	90
76) 1,4-dichlorobenzene	18.483	146	392758	10.287	ppbV	98
77) sec-butylbenzene	18.517	105	880524	9.942	ppbV	95
78) p-isopropyltoluene	18.650	119	744422	10.012	ppbV	97
79) 1,2-dichlorobenzene	18.775	146	374858	10.283	ppbV	98
80) n-butylbenzene	19.017	91	645779	10.077	ppbV	96
81) 1,2-dibromo-3-chloropr...	19.158	75	148832	10.696	ppbV	99
82) 1,2,4-trichlorobenzene	20.358	180	266905	11.146	ppbV	100
83) naphthalene	20.467	128	674472	10.930	ppbV	100
84) 1,2,3-trichlorobenzene	20.742	180	201954	11.291	ppbV	98
85) hexachlorobutadiene	20.850	225	242282	10.361	ppbV	99

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

Sub List : Default - All compounds listed4\01\0107SIM_I\r1737679_Ev2.D

Data Path : O:\Forensics\Data\Airlab17\2024\01\0107SIM_I\
Data File : r1737680_Ev2.D
Acq On : 8 Jan 2024 12:56 AM
Operator : AIRLAB17:RAY
Sample : ITO15-SIMSTD10.0
Misc : WG1872081
ALS Vial : 0 Sample Multiplier: 1

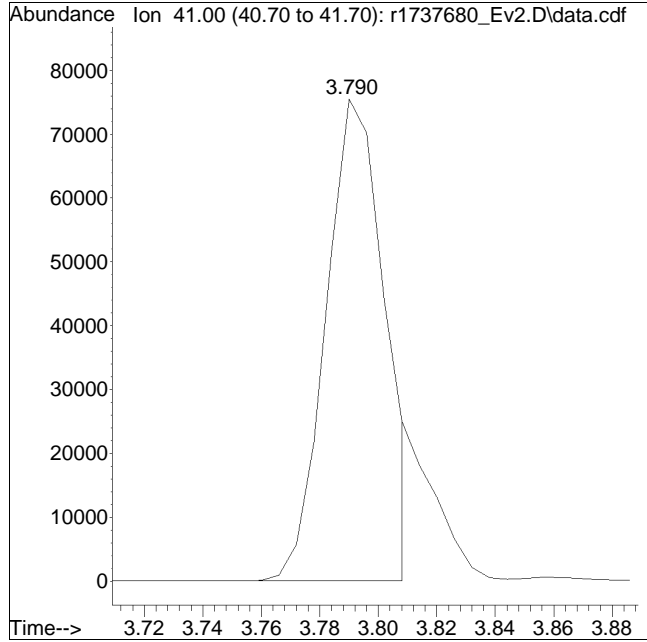
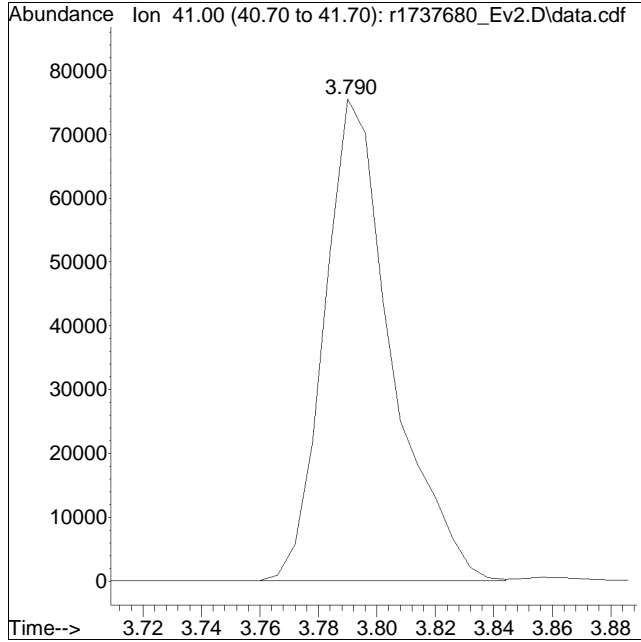
Quant Time: Jan 08 15:21:10 2024
Quant Method : O:\Forensics\Data\Airlab17\2024\01\0107SIM_I\TSIM17_240107.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Mon Jan 08 15:19:42 2024
Response via : Initial Calibration



Manual Integration Report

Data Path : O:\Forensics\Data\Airlab17QMethod : TSIM17_240107.M
Data File : r1737680_Ev2.D Operator : AIRLAB17:RAY
Date Inj'd : 1/8/2020 0:2: 6 Instrument :
Sample : ITO15-SIMSTD10.0 Quant Date : 1/8/2024 3:21 pm

Compound #2: propylene



Original Peak Response = 120824

Manual Peak Response = 106206 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab17\2024\01\0107SIM_I\
 Data File : r1737681_Ev2.D
 Acq On : 8 Jan 2024 1:35 AM
 Operator : AIRLAB17:RAY
 Sample : ITO15-SIMSTD20
 Misc : WG1872081
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jan 08 15:21:36 2024
 Quant Method : O:\Forensics\Data\Airlab17\2024\01\0107SIM_I\TSIM17_240107.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Mon Jan 08 15:19:42 2024
 Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab17\2024\01\0107SIM_I\r1737679_Ev2.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	8.825	49	256563	10.000	ppbV	0.00
Standard Area = 254708			Recovery = 100.73%			
33) 1,4-difluorobenzene	11.063	114	730351	10.000	ppbV	0.00
Standard Area = 737324			Recovery = 99.05%			
51) chlorobenzene-D5	15.825	54	92121	10.000	ppbV	0.00
Standard Area = 91988			Recovery = 100.14%			
System Monitoring Compounds						
35) 1,2-dichloroethane-D4	9.683	65	208665	9.826	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 98.26%			
53) toluene-D8	13.917	98	733580	9.817	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 98.17%			
67) bromofluorobenzene	17.208	95	457252	9.919	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 99.19%			
Target Compounds						
						Qvalue
2) propylene	3.790	41	213730M6	18.279	ppbV	
3) dichlorodifluoromethane	3.862	85	506523	18.764	ppbV	98
4) chloromethane	4.012	50	256150	19.110	ppbV	99
5) Freon-114	4.120	85	619181	18.752	ppbV	97
6) vinyl chloride	4.234	62	271056	19.382	ppbV	100
7) 1,3-butadiene	4.366	54	227370	19.589	ppbV	98
8) bromomethane	4.636	94	237449	19.619	ppbV	100
9) chloroethane	4.816	64	124412	19.674	ppbV	98
10) ethanol	4.924	31	1033061	91.910	ppbV	100
11) vinyl bromide	5.180	106	241611	19.979	ppbV	99
12) acrolein	5.297	56	128526	21.633	ppbV	99
13) acetone	5.427	43	1546474	100.038	ppbV	98
14) trichlorofluoromethane	5.627	101	427490	19.502	ppbV	99
15) isopropyl alcohol	5.693	45	1081139	50.537	ppbV	100
16) acrylonitrile	5.930	53	242345	21.540	ppbV	100
17) 1,1-dichloroethene	6.300	61	358408	19.980	ppbV	98
18) tertiary butyl alcohol	6.336	59	492120	20.959	ppbV	93
19) methylene chloride	6.444	49	379549	22.760	ppbV	96
20) 3-chloropropene	6.570	41	384315	20.080	ppbV	99
21) carbon disulfide	6.738	76	928952	20.139	ppbV	97
22) Freon 113	6.738	101	539972	19.399	ppbV	99
23) trans-1,2-dichloroethene	7.475	61	372182	19.935	ppbV	99
24) 1,1-dichloroethane	7.700	63	466824	19.641	ppbV	99

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab17\2024\01\0107SIM_I\
 Data File : r1737681_Ev2.D
 Acq On : 8 Jan 2024 1:35 AM
 Operator : AIRLAB17:RAY
 Sample : ITO15-SIMSTD20
 Misc : WG1872081
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jan 08 15:21:36 2024
 Quant Method : O:\Forensics\Data\Airlab17\2024\01\0107SIM_I\TSIM17_240107.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Mon Jan 08 15:19:42 2024
 Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab17\2024\01\0107SIM_I\r1737679_Ev2.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) MTBE	7.758	73	698054	19.963	ppbV	98
26) vinyl acetate	7.883	43	662324	20.915	ppbV	99
27) 2-butanone	8.125	43	645856	20.176	ppbV	99
28) cis-1,2-dichloroethene	8.642	61	349922	19.706	ppbV	100
29) Ethyl Acetate	8.908	61	91964	20.313	ppbV	86
30) chloroform	8.983	83	503645	19.566	ppbV	99
31) Tetrahydrofuran	9.400	42	364599	20.149	ppbV	99
32) 1,2-dichloroethane	9.808	62	270448	19.422	ppbV	99
34) hexane	8.900	57	440960	20.221	ppbV	94
36) 1,1,1-trichloroethane	10.100	97	448001	21.891	ppbV	100
37) benzene	10.630	78	1046612	19.885	ppbV	100
38) carbon tetrachloride	10.803	117	420318	20.756	ppbV	98
39) cyclohexane	10.950	56	477064	20.295	ppbV	100
40) Dibromomethane	11.550	93	298090	21.358	ppbV #	99
41) 1,2-dichloropropane	11.583	63	320974	19.972	ppbV	99
42) bromodichloromethane	11.810	83	518663	21.101	ppbV	100
43) 1,4-dioxane	11.843	88	208970	20.749	ppbV	99
44) trichloroethene	11.870	130	434828	20.092	ppbV	99
45) 2,2,4-trimethylpentane	11.917	57	1414621	20.215	ppbV	100
46) heptane	12.237	43	641850	20.250	ppbV	99
47) cis-1,3-dichloropropene	12.875	75	541081	20.469	ppbV	99
48) 4-methyl-2-pentanone	12.908	43	783691	20.620	ppbV	99
49) trans-1,3-dichloropropene	13.500	75	431778	20.728	ppbV	100
50) 1,1,2-trichloroethane	13.700	97	372247	20.048	ppbV	100
52) toluene	14.033	91	1095422	19.709	ppbV	100
54) 2-hexanone	14.317	43	728382	20.856	ppbV	99
55) dibromochloromethane	14.492	129	528900	21.526	ppbV	99
56) 1,2-dibromoethane	14.742	107	587484	19.774	ppbV	99
57) tetrachloroethene	15.217	166	419115	19.568	ppbV	100
58) 1,1,1,2-tetrachloroethane	15.850	131	419589	21.788	ppbV	99
59) chlorobenzene	15.867	112	962502	19.479	ppbV	97
60) ethylbenzene	16.217	91	1392348	19.677	ppbV	99
61) m+p-xylene	16.392	91	2192146	39.578	ppbV	100
62) bromoform	16.450	173	397114	22.663	ppbV	98
63) styrene	16.708	104	956485	19.802	ppbV	98
64) 1,1,2,2-tetrachloroethane	16.800	83	822655	19.735	ppbV	99
65) o-xylene	16.808	91	1099013	19.561	ppbV	97
66) 1,2,3-Trichloropropane	16.917	75	655447	21.245	ppbV	99
68) isopropylbenzene	17.325	105	1481627	20.613	ppbV	95
69) Bromobenzene	17.392	77	841968	21.276	ppbV	100

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab17\2024\01\0107SIM_I\
 Data File : r1737681_Ev2.D
 Acq On : 8 Jan 2024 1:35 AM
 Operator : AIRLAB17:RAY
 Sample : ITO15-SIMSTD20
 Misc : WG1872081
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jan 08 15:21:36 2024
 Quant Method : O:\Forensics\Data\Airlab17\2024\01\0107SIM_I\TSIM17_240107.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Mon Jan 08 15:19:42 2024
 Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab17\2024\01\0107SIM_I\r1737679_Ev2.D
 Sub List : Default - All compounds listed

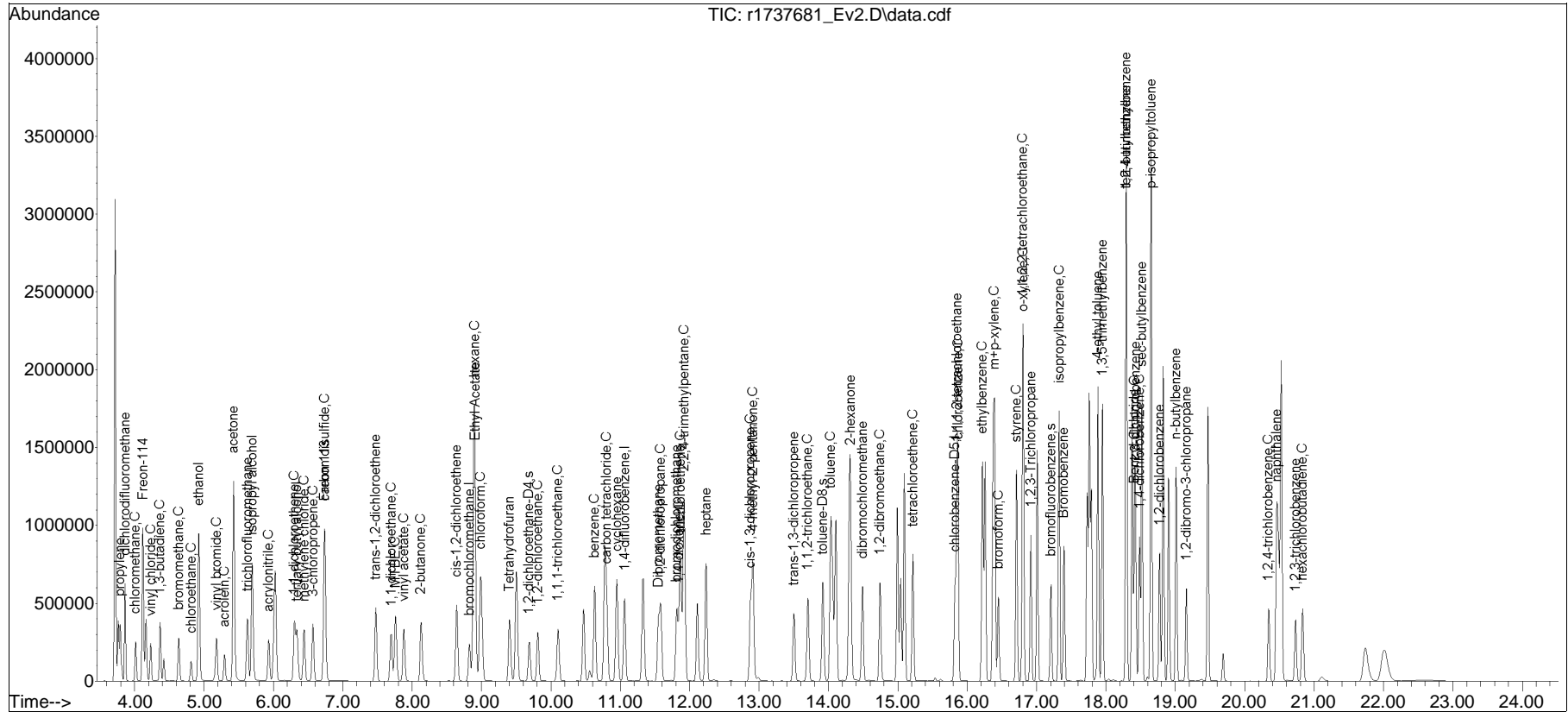
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
70) 4-ethyl toluene	17.883	105	1519525	19.772	ppbV	99
71) 1,3,5-trimethylbenzene	17.950	105	1280311	19.138	ppbV	96
72) tert-butylbenzene	18.292	119	1308065	20.624	ppbV	100
73) 1,2,4-trimethylbenzene	18.292	105	1287395	19.110	ppbV	92
74) Benzyl Chloride	18.408	91	841399	24.089	ppbV	99
75) 1,3-dichlorobenzene	18.425	146	785959	19.737	ppbV	94
76) 1,4-dichlorobenzene	18.483	146	780543	20.148	ppbV	95
77) sec-butylbenzene	18.517	105	1839453	20.470	ppbV	99
78) p-isopropyltoluene	18.650	119	1563788	20.729	ppbV	100
79) 1,2-dichlorobenzene	18.775	146	741680	20.053	ppbV	95
80) n-butylbenzene	19.008	91	1382477	21.262	ppbV	99
81) 1,2-dibromo-3-chloropr...	19.158	75	334825	23.717	ppbV	97
82) 1,2,4-trichlorobenzene	20.342	180	521827	21.477	ppbV	98
83) naphthalene	20.458	128	1507240	24.074	ppbV	100
84) 1,2,3-trichlorobenzene	20.733	180	451958	24.904	ppbV	100
85) hexachlorobutadiene	20.833	225	450937	19.006	ppbV	100

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

Sub List : Default - All compounds listed4\01\0107SIM_I\r1737679_Ev2.D

Data Path : O:\Forensics\Data\Airlab17\2024\01\0107SIM_I\
Data File : r1737681_Ev2.D
Acq On : 8 Jan 2024 1:35 AM
Operator : AIRLAB17:RAY
Sample : ITO15-SIMSTD20
Misc : WG1872081
ALS Vial : 0 Sample Multiplier: 1

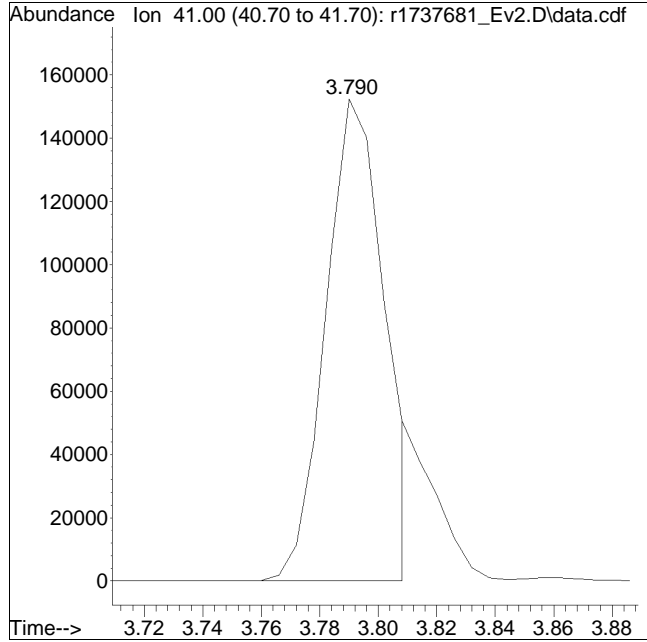
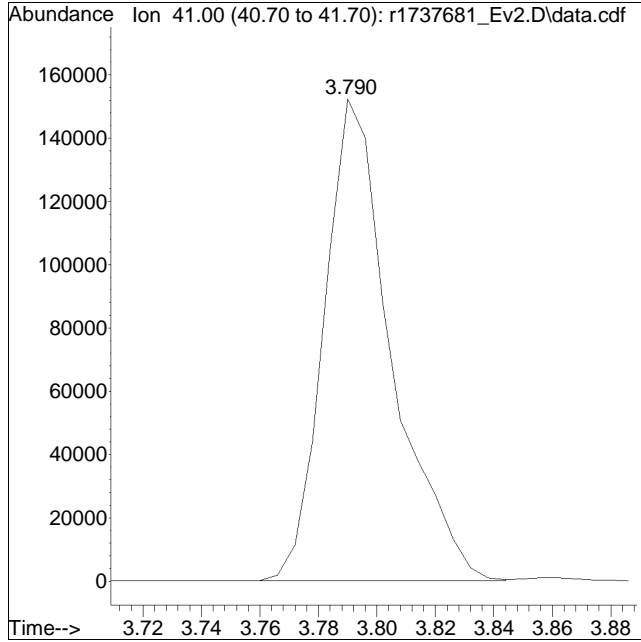
Quant Time: Jan 08 15:21:36 2024
Quant Method : O:\Forensics\Data\Airlab17\2024\01\0107SIM_I\TSIM17_240107.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Mon Jan 08 15:19:42 2024
Response via : Initial Calibration



Manual Integration Report

Data Path : O:\Forensics\Data\Airlab17QMethod : TSIM17_240107.M
Data File : r1737681_Ev2.D Operator : AIRLAB17:RAY
Date Inj'd : 1/8/2020 0:1: 5 Instrument :
Sample : ITO15-SIMSTD20 Quant Date : 1/8/2024 3:21 pm

Compound #2: propylene



Original Peak Response = 244021

Manual Peak Response = 213730 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab17\2024\01\0107SIM_I\
 Data File : r1737682_Ev2.D
 Acq On : 8 Jan 2024 2:14 AM
 Operator : AIRLAB17:RAY
 Sample : ITO15-SIMSTD50
 Misc : WG1872081
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jan 08 15:21:46 2024
 Quant Method : O:\Forensics\Data\Airlab17\2024\01\0107SIM_I\TSIM17_240107.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Mon Jan 08 15:19:42 2024
 Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab17\2024\01\0107SIM_I\r1737679_Ev2.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	8.825	49	254370	10.000	ppbV	0.00
Standard Area =	254708		Recovery =		99.87%	
33) 1,4-difluorobenzene	11.063	114	711103	10.000	ppbV	0.00
Standard Area =	737324		Recovery =		96.44%	
51) chlorobenzene-D5	15.817	54	91254	10.000	ppbV	0.00
Standard Area =	91988		Recovery =		99.20%	
System Monitoring Compounds						
35) 1,2-dichloroethane-D4	9.692	65	199157	9.632	ppbV	0.00
Spiked Amount	10.000	Range 70 - 130	Recovery =		96.32%	
53) toluene-D8	13.917	98	708610	9.573	ppbV	0.00
Spiked Amount	10.000	Range 70 - 130	Recovery =		95.73%	
67) bromofluorobenzene	17.200	95	430123	9.419	ppbV	0.00
Spiked Amount	10.000	Range 70 - 130	Recovery =		94.19%	
Target Compounds						
2) propylene	3.790	41	501649M6	43.273	ppbV	
3) dichlorodifluoromethane	3.856	85	1149156	42.938	ppbV	99
4) chloromethane	4.012	50	590986	44.470	ppbV	100
5) Freon-114	4.114	85	1366797	41.749	ppbV	97
6) vinyl chloride	4.228	62	628941	45.360	ppbV	100
7) 1,3-butadiene	4.366	54	516932	44.920	ppbV	98
8) bromomethane	4.636	94	547474	45.623	ppbV	100
9) chloroethane	4.810	64	290279	46.300	ppbV	100
10) ethanol	4.930	31	2249763	201.885	ppbV	100
11) vinyl bromide	5.180	106	556937	46.451	ppbV	98
12) acrolein	5.293	56	301367	51.163	ppbV	99
13) acetone	5.427	43	3469986	226.401	ppbV	95
14) trichlorofluoromethane	5.623	101	976076	44.913	ppbV	100
15) isopropyl alcohol	5.697	45	2443293	115.194	ppbV	99
16) acrylonitrile	5.933	53	572015	51.279	ppbV	100
17) 1,1-dichloroethene	6.300	61	818754	46.035	ppbV	100
18) tertiary butyl alcohol	6.342	59	1153911	49.567	ppbV	100
19) methylene chloride	6.438	49	864690	52.298	ppbV	94
20) 3-chloropropene	6.570	41	875526	46.140	ppbV	98
21) carbon disulfide	6.738	76	2085710	45.606	ppbV	97
22) Freon 113	6.738	101	1218015	44.136	ppbV	98
23) trans-1,2-dichloroethene	7.475	61	854818	46.180	ppbV	100
24) 1,1-dichloroethane	7.692	63	1063588	45.135	ppbV	100

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab17\2024\01\0107SIM_I\
 Data File : r1737682_Ev2.D
 Acq On : 8 Jan 2024 2:14 AM
 Operator : AIRLAB17:RAY
 Sample : ITO15-SIMSTD50
 Misc : WG1872081
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jan 08 15:21:46 2024
 Quant Method : O:\Forensics\Data\Airlab17\2024\01\0107SIM_I\TSIM17_240107.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Mon Jan 08 15:19:42 2024
 Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab17\2024\01\0107SIM_I\r1737679_Ev2.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) MTBE	7.758	73	1607763	46.374	ppbV	98
26) vinyl acetate	7.883	43	1518025	48.351	ppbV	99
27) 2-butanone	8.125	43	1487165	46.859	ppbV	99
28) cis-1,2-dichloroethene	8.642	61	801014	45.498	ppbV	99
29) Ethyl Acetate	8.908	61	216699	48.277	ppbV	76
30) chloroform	8.983	83	1149245	45.033	ppbV	99
31) Tetrahydrofuran	9.400	42	842776	46.975	ppbV	99
32) 1,2-dichloroethane	9.808	62	616425	44.649	ppbV	99
34) hexane	8.900	57	1014247	47.769	ppbV	93
36) 1,1,1-trichloroethane	10.100	97	1000449	50.209	ppbV	100
37) benzene	10.630	78	2362839	46.107	ppbV	98
38) carbon tetrachloride	10.803	117	973271	49.364	ppbV	98
39) cyclohexane	10.950	56	1103657	48.222	ppbV	99
40) Dibromomethane	11.550	93	681181	50.128	ppbV #	98
41) 1,2-dichloropropane	11.583	63	736169	47.047	ppbV	99
42) bromodichloromethane	11.810	83	1204305	50.320	ppbV	99
43) 1,4-dioxane	11.843	88	489091	49.877	ppbV	98
44) trichloroethene	11.863	130	1002064	47.554	ppbV	100
45) 2,2,4-trimethylpentane	11.917	57	3207851	47.081	ppbV	100
46) heptane	12.237	43	1438214	46.603	ppbV	97
47) cis-1,3-dichloropropene	12.875	75	1240603	48.202	ppbV	99
48) 4-methyl-2-pentanone	12.908	43	1769304	47.813	ppbV	98
49) trans-1,3-dichloropropene	13.500	75	1004544	49.530	ppbV	99
50) 1,1,2-trichloroethane	13.700	97	843219	46.643	ppbV	98
52) toluene	14.033	91	2476745	44.986	ppbV	100
54) 2-hexanone	14.317	43	1648458	47.649	ppbV	96
55) dibromochloromethane	14.492	129	1231833	50.612	ppbV	98
56) 1,2-dibromoethane	14.742	107	1325405	45.036	ppbV	99
57) tetrachloroethene	15.217	166	962575	45.367	ppbV	99
58) 1,1,1,2-tetrachloroethane	15.850	131	964380	50.554	ppbV	99
59) chlorobenzene	15.867	112	2180646	44.550	ppbV	97
60) ethylbenzene	16.217	91	3135702	44.735	ppbV	100
61) m+p-xylene	16.392	91	4929798	89.850	ppbV	99
62) bromoform	16.450	173	947362	54.579	ppbV	98
63) styrene	16.708	104	2155277	45.043	ppbV	97
64) 1,1,2,2-tetrachloroethane	16.800	83	1881601	45.567	ppbV	100
65) o-xylene	16.808	91	2467675	44.339	ppbV	97
66) 1,2,3-Trichloropropane	16.917	75	1511046	49.443	ppbV	99
68) isopropylbenzene	17.325	105	3294245	46.267	ppbV	92
69) Bromobenzene	17.392	77	1918532	48.942	ppbV	98

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab17\2024\01\0107SIM_I\
 Data File : r1737682_Ev2.D
 Acq On : 8 Jan 2024 2:14 AM
 Operator : AIRLAB17:RAY
 Sample : ITO15-SIMSTD50
 Misc : WG1872081
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jan 08 15:21:46 2024
 Quant Method : O:\Forensics\Data\Airlab17\2024\01\0107SIM_I\TSIM17_240107.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Mon Jan 08 15:19:42 2024
 Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab17\2024\01\0107SIM_I\r1737679_Ev2.D
 Sub List : Default - All compounds listed

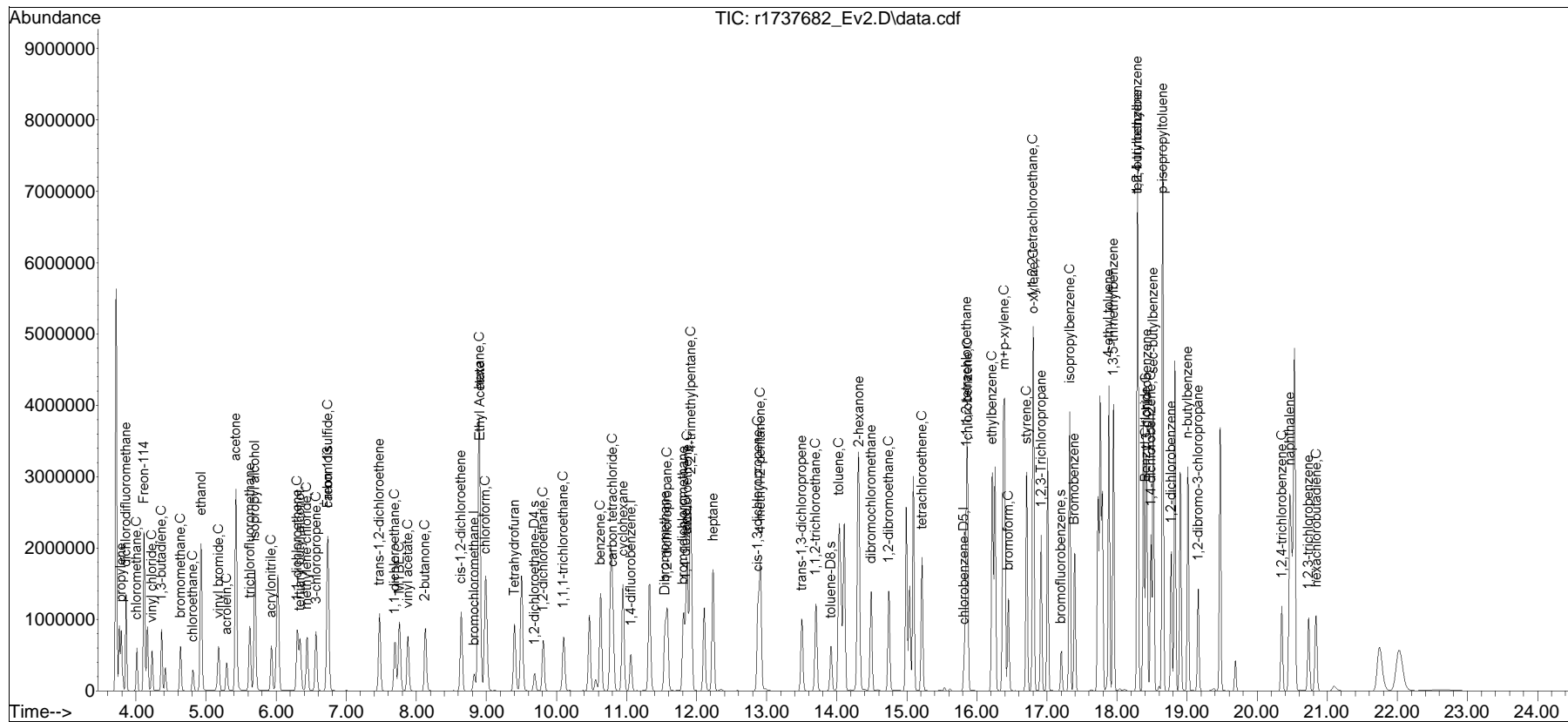
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
70) 4-ethyl toluene	17.883	105	3391958	44.556	ppbV	96
71) 1,3,5-trimethylbenzene	17.950	105	2859144	43.144	ppbV	92
72) tert-butylbenzene	18.292	119	2960374	47.119	ppbV	97
73) 1,2,4-trimethylbenzene	18.292	105	2825882	42.345	ppbV #	89
74) Benzyl Chloride	18.408	91	2073621	59.930	ppbV	100
75) 1,3-dichlorobenzene	18.425	146	1853721	46.992	ppbV	92
76) 1,4-dichlorobenzene	18.483	146	1796004	46.801	ppbV	97
77) sec-butylbenzene	18.517	105	4117411	46.256	ppbV	98
78) p-isopropyltoluene	18.650	119	3548088	47.478	ppbV	97
79) 1,2-dichlorobenzene	18.775	146	1734836	47.351	ppbV	96
80) n-butylbenzene	19.008	91	3166880	49.169	ppbV	97
81) 1,2-dibromo-3-chloropr...	19.158	75	810746	57.973	ppbV	96
82) 1,2,4-trichlorobenzene	20.350	180	1326965	55.134	ppbV	99
83) naphthalene	20.467	128	3833589	61.813	ppbV	100
84) 1,2,3-trichlorobenzene	20.733	180	1179880	65.633	ppbV	99
85) hexachlorobutadiene	20.842	225	1089961	46.375	ppbV	98

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

Sub List : Default - All compounds listed4\01\0107SIM_I\r1737679_Ev2.D

Data Path : O:\Forensics\Data\Airlab17\2024\01\0107SIM_I\
Data File : r1737682_Ev2.D
Acq On : 8 Jan 2024 2:14 AM
Operator : AIRLAB17:RAY
Sample : ITO15-SIMSTD50
Misc : WG1872081
ALS Vial : 0 Sample Multiplier: 1

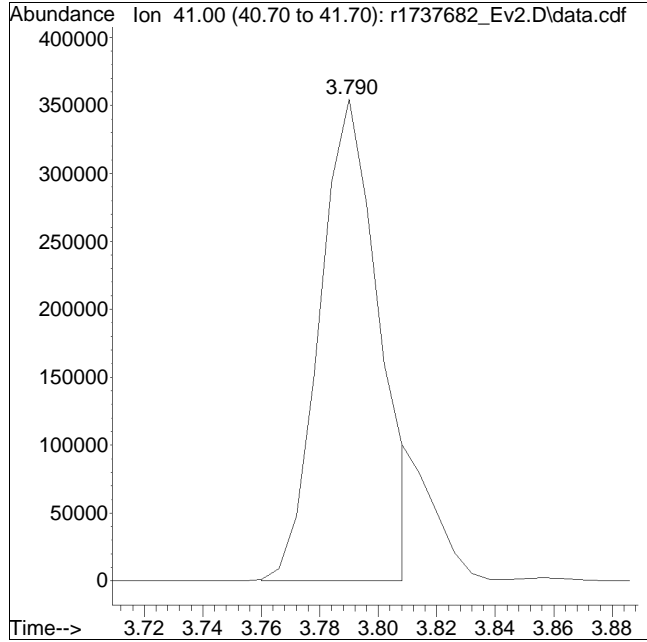
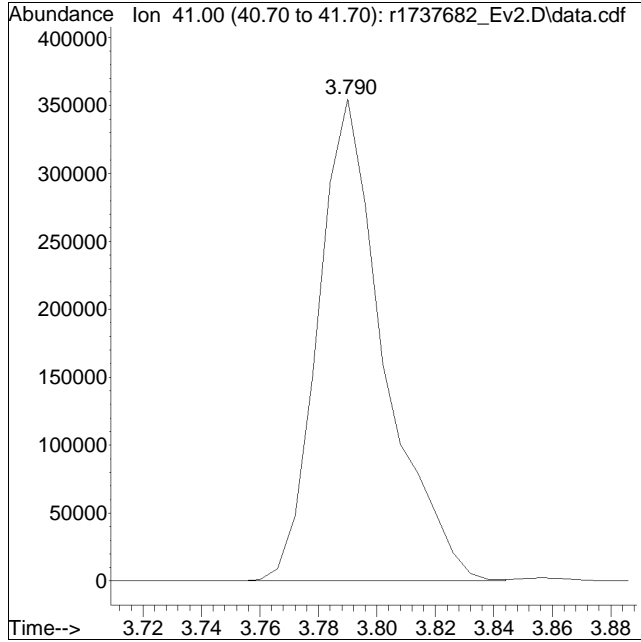
Quant Time: Jan 08 15:21:46 2024
Quant Method : O:\Forensics\Data\Airlab17\2024\01\0107SIM_I\TSIM17_240107.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Mon Jan 08 15:19:42 2024
Response via : Initial Calibration



Manual Integration Report

Data Path : O:\Forensics\Data\Airlab17QMethod : TSIM17_240107.M
Data File : r1737682_Ev2.D Operator : AIRLAB17:RAY
Date Inj'd : 1/8/2020 0:2: 4 Instrument :
Sample : ITO15-SIMSTD50 Quant Date : 1/8/2024 3:21 pm

Compound #2: propylene



Original Peak Response = 558561

Manual Peak Response = 501649 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Evaluate Continuing Calibration Report

Data Path : O:\Forensics\Data\Airlab17\2024\01\0107SIM_I\
 Data File : r1737687_Ev2.D
 Acq On : 8 Jan 2024 1:39 PM
 Operator : AIRLAB17:RAY
 Sample : CTO15-SIMSTD5.0
 Misc : WG1872081
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jan 08 15:37:03 2024
 Quant Method : O:\Forensics\Data\Airlab17\2024\01\0107SIM_I\TSIM17_240107.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Mon Jan 08 15:36:14 2024
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
 Max. RRF Dev : 30% Max. Rel. Area : 140%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	bromochloromethane	1.000	1.000	0.0	93	-0.04
2	propylene	0.483	0.476	1.4	97	-0.03
3	dichlorodifluoromethane	1.032	0.985	4.6	87	-0.02
4 C	chloromethane	0.517	0.466	9.9	83	-0.03
5	Freon-114	1.270	1.319	-3.9	96	-0.03
6 C	vinyl chloride	0.546	0.537	1.6	92	-0.03
7 C	1,3-butadiene	0.447	0.492	-10.1	101	-0.03
8 C	bromomethane	0.476	0.483	-1.5	95	-0.03
9 C	chloroethane	0.250	0.249	0.4	94	-0.03
10	ethanol	0.421	0.481	-14.3	102	-0.04
11 C	vinyl bromide	0.476	0.485	-1.9	96	-0.04
12 C	acrolein	0.274	0.241	12.0	97	-0.04
13	acetone	0.649	0.621	4.3	96	-0.03
14	trichlorofluoromethane	0.879	0.844	4.0	92	-0.03
15	isopropyl alcohol	0.837	0.804	3.9	90	-0.04
16 C	acrylonitrile	0.469	0.467	0.4	99	-0.04
17 C	1,1-dichloroethene	0.698	0.720	-3.2	96	-0.04
18	tertiary butyl alcohol	0.944	0.986	-4.4	100	-0.04
19 C	methylene chloride	0.680	0.637	6.3	91	-0.04
20 C	3-chloropropene	0.741	0.809	-9.2	101	-0.04
21 C	carbon disulfide	1.791	1.791	0.0	93	-0.04
22	Freon 113	1.088	1.056	2.9	91	-0.04
23	trans-1,2-dichloroethene	0.716	0.747	-4.3	96	-0.04
24 C	1,1-dichloroethane	0.909	0.888	2.3	89	-0.03
25 C	MTBE	1.323	1.420	-7.3	97	-0.04
26 C	vinyl acetate	1.250	1.158	7.4	87	-0.04
27 C	2-butanone	1.242	1.277	-2.8	95	-0.04
28	cis-1,2-dichloroethene	0.688	0.681	1.0	92	-0.04
29	Ethyl Acetate	0.176	0.191	-8.5	101	-0.03
30 C	chloroform	1.001	0.992	0.9	92	-0.04
31	Tetrahydrofuran	0.697	0.702	-0.7	93	-0.04
32 C	1,2-dichloroethane	0.563	0.516	8.3	89	-0.04
33 I	1,4-difluorobenzene	1.000	1.000	0.0	94	-0.04
34 C	hexane	0.305	0.321	-5.2	100	-0.04
35 s	1,2-dichloroethane-D4	0.288	0.282	2.1	91	-0.03
36 C	1,1,1-trichloroethane	0.281	0.267	5.0	89	-0.03
37 C	benzene	0.747	0.676	9.5	88	-0.04
38 C	carbon tetrachloride	0.277	0.274	1.1	93	-0.05

Evaluate Continuing Calibration Report

Data Path : O:\Forensics\Data\Airlab17\2024\01\0107SIM_I\
 Data File : r1737687_Ev2.D
 Acq On : 8 Jan 2024 1:39 PM
 Operator : AIRLAB17:RAY
 Sample : CT015-SIMSTD5.0
 Misc : WG1872081
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jan 08 15:37:03 2024
 Quant Method : O:\Forensics\Data\Airlab17\2024\01\0107SIM_I\TSIM17_240107.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Mon Jan 08 15:36:14 2024
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
 Max. RRF Dev : 30% Max. Rel. Area : 140%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
39	cyclohexane	0.332	0.351	-5.7	102	-0.04
40	Dibromomethane	0.210	0.196	6.7	96	-0.04
41 C	1,2-dichloropropane	0.232	0.211	9.1	90	-0.04
42	bromodichloromethane	0.332	0.374	-12.7	104	-0.03
43 C	1,4-dioxane	0.141	0.150	-6.4	102	-0.04
44 C	trichloroethene	0.291	0.285	2.1	90	-0.03
45 C	2,2,4-trimethylpentane	1.031	1.038	-0.7	101	-0.04
46	heptane	0.437	0.449	-2.7	97	-0.04
47 C	cis-1,3-dichloropropene	0.345	0.355	-2.9	92	-0.03
48 C	4-methyl-2-pentanone	0.519	0.534	-2.9	96	-0.04
49	trans-1,3-dichloropropene	0.267	0.277	-3.7	91	-0.03
50 C	1,1,2-trichloroethane	0.251	0.245	2.4	90	-0.03
51 I	chlorobenzene-D5	1.000	1.000	0.0	93	-0.04
52 C	toluene	6.081	5.866	3.5	90	-0.04
53 s	toluene-D8	8.027	8.053	-0.3	92	-0.03
54	2-hexanone	3.630	3.853	-6.1	94	-0.04
55	dibromochloromethane	2.536	3.121	-23.1	108	-0.04
56 C	1,2-dibromoethane	3.064	3.143	-2.6	90	-0.03
57 C	tetrachloroethene	2.349	2.244	4.5	89	-0.03
58	1,1,1,2-tetrachloroethane	2.100	2.192	-4.4	97	-0.04
59 C	chlorobenzene	5.210	5.198	0.2	90	-0.04
60 C	ethylbenzene	7.444	7.233	2.8	87	-0.06
61 C	m+p-xylene	5.903	5.731	2.9	88	-0.06
62 C	bromoform	1.751	2.246	-28.3	109	-0.06
63 C	styrene	4.879	4.973	-1.9	88	-0.07
64 C	1,1,2,2-tetrachloroethane	4.368	4.612	-5.6	94	-0.08
65 C	o-xylene	5.957	5.834	2.1	89	-0.07
66	1,2,3-Trichloropropane	3.458	3.464	-0.2	96	-0.08
67 s	bromofluorobenzene	4.917	4.805	2.3	89	-0.09
68 C	isopropylbenzene	8.086	8.152	-0.8	97	-0.09
69	Bromobenzene	4.347	4.580	-5.4	99	-0.10
70	4-ethyl toluene	7.995	8.774	-9.7	98	-0.13
71	1,3,5-trimethylbenzene	6.935	7.077	-2.0	90	-0.12
72	tert-butylbenzene	7.167	7.103	0.9	96	-0.13
73	1,2,4-trimethylbenzene	6.891	7.099	-3.0	90	-0.13
74 C	Benzyl Chloride	3.668	4.191	-14.3	102	-0.13
75	1,3-dichlorobenzene	4.020	4.305	-7.1	92	-0.14
76 C	1,4-dichlorobenzene	3.872	4.177	-7.9	92	-0.13

Evaluate Continuing Calibration Report

Data Path : O:\Forensics\Data\Airlab17\2024\01\0107SIM_I\
 Data File : r1737687_Ev2.D
 Acq On : 8 Jan 2024 1:39 PM
 Operator : AIRLAB17:RAY
 Sample : CT015-SIMSTD5.0
 Misc : WG1872081
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jan 08 15:37:03 2024
 Quant Method : O:\Forensics\Data\Airlab17\2024\01\0107SIM_I\TSIM17_240107.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Mon Jan 08 15:36:14 2024
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
 Max. RRF Dev : 30% Max. Rel. Area : 140%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
77	sec-butylbenzene	10.196	10.097	1.0	96	-0.14
78	p-isopropyltoluene	8.577	7.958	7.2	90	-0.15
79	1,2-dichlorobenzene	3.895	3.948	-1.4	91	-0.15
80	n-butylbenzene	7.396	7.621	-3.0	100	-0.16
81	1,2-dibromo-3-chloropropane	1.484	1.724	-16.2	104	-0.17
82 C	1,2,4-trichlorobenzene	2.462	2.556	-3.8	90	-0.17
83	naphthalene	7.485	7.794	-4.1	106	-0.16
84	1,2,3-trichlorobenzene	2.182	2.409	-10.4	113	-0.16
85 C	hexachlorobutadiene	2.524	2.460	2.5	89	-0.15

* Evaluation of CC level amount vs concentration.
 (#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab17\2024\01\0107SIM_I\
 Data File : r1737687_Ev2.D
 Acq On : 8 Jan 2024 1:39 PM
 Operator : AIRLAB17:RAY
 Sample : CTO15-SIMSTD5.0
 Misc : WG1872081
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jan 08 15:37:03 2024
 Quant Method : O:\Forensics\Data\Airlab17\2024\01\0107SIM_I\TSIM17_240107.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Mon Jan 08 15:36:14 2024
 Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab17\2024\01\0107SIM_I\r1737679_Ev2.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
Internal Standards							
1) bromochloromethane	8.792	49	237541	10.000	ppbV	-0.04	
Standard Area =	254708		Recovery =		93.26%		
33) 1,4-difluorobenzene	11.030	114	689778	10.000	ppbV	-0.04	
Standard Area =	737324		Recovery =		93.55%		
51) chlorobenzene-D5	15.783	54	85291	10.000	ppbV	-0.04	
Standard Area =	91988		Recovery =		92.72%		
System Monitoring Compounds							
35) 1,2-dichloroethane-D4	9.658	65	194469	9.796	ppbV	-0.03	
Spiked Amount	10.000	Range 70 - 130	Recovery =		97.96%		
53) toluene-D8	13.892	98	686852	10.033	ppbV	-0.03	
Spiked Amount	10.000	Range 70 - 130	Recovery =		100.33%		
67) bromofluorobenzene	17.117	95	409819	9.773	ppbV	-0.09	
Spiked Amount	10.000	Range 70 - 130	Recovery =		97.73%		
Target Compounds							
							Qvalue
2) propylene	3.766	41	56532M6	4.932	ppbV		
3) dichlorodifluoromethane	3.838	85	117041	4.775	ppbV		98
4) chloromethane	3.988	50	55395	4.510	ppbV		100
5) Freon-114	4.090	85	156702	5.195	ppbV		98
6) vinyl chloride	4.204	62	63761	4.919	ppbV		99
7) 1,3-butadiene	4.342	54	58425	5.500	ppbV		100
8) bromomethane	4.612	94	57363	5.079	ppbV		100
9) chloroethane	4.786	64	29596	4.984	ppbV		98
10) ethanol	4.894	31	285901	28.603	ppbV		95
11) vinyl bromide	5.150	106	57569	5.091	ppbV		99
12) acrolein	5.267	56	28656	4.409	ppbV		98
13) acetone	5.400	43	369046	23.942	ppbV		97
14) trichlorofluoromethane	5.597	101	100218	4.802	ppbV		100
15) isopropyl alcohol	5.663	45	238851	12.013	ppbV		99
16) acrylonitrile	5.903	53	55433	4.976	ppbV		99
17) 1,1-dichloroethene	6.270	61	85473	5.153	ppbV		98
18) tertiary butyl alcohol	6.306	59	117076	5.222	ppbV		98
19) methylene chloride	6.408	49	75656	4.681	ppbV		99
20) 3-chloropropene	6.540	41	96058	5.459	ppbV		98
21) carbon disulfide	6.702	76	212705	5.000	ppbV		99
22) Freon 113	6.708	101	125443	4.852	ppbV		99
23) trans-1,2-dichloroethene	7.442	61	88713	5.214	ppbV		97
24) 1,1-dichloroethane	7.667	63	105442	4.886	ppbV		100

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab17\2024\01\0107SIM_I\
 Data File : r1737687_Ev2.D
 Acq On : 8 Jan 2024 1:39 PM
 Operator : AIRLAB17:RAY
 Sample : CTO15-SIMSTD5.0
 Misc : WG1872081
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jan 08 15:37:03 2024
 Quant Method : O:\Forensics\Data\Airlab17\2024\01\0107SIM_I\TSIM17_240107.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Mon Jan 08 15:36:14 2024
 Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab17\2024\01\0107SIM_I\r1737679_Ev2.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) MTBE	7.733	73	168597	5.367	ppbV	98
26) vinyl acetate	7.850	43	137508	4.630	ppbV	99
27) 2-butanone	8.100	43	151657	5.139	ppbV	100
28) cis-1,2-dichloroethene	8.608	61	80881	4.952	ppbV	96
29) Ethyl Acetate	8.883	61	22634	5.418	ppbV #	55
30) chloroform	8.950	83	117785	4.952	ppbV	99
31) Tetrahydrofuran	9.375	42	83426	5.042	ppbV	100
32) 1,2-dichloroethane	9.775	62	61265	4.581	ppbV	98
34) hexane	8.867	57	110594	5.265	ppbV	85
36) 1,1,1-trichloroethane	10.075	97	92168	4.752	ppbV	98
37) benzene	10.597	78	233290	4.530	ppbV	99
38) carbon tetrachloride	10.770	117	94647	4.945	ppbV	100
39) cyclohexane	10.917	56	121216	5.298	ppbV	98
40) Dibromomethane	11.517	93	67573	4.660	ppbV #	98
41) 1,2-dichloropropane	11.550	63	72794	4.557	ppbV	99
42) bromodichloromethane	11.783	83	129032	5.633	ppbV	99
43) 1,4-dioxane	11.817	88	51753	5.323	ppbV	98
44) trichloroethene	11.837	130	98408	4.895	ppbV	100
45) 2,2,4-trimethylpentane	11.883	57	358002	5.032	ppbV	97
46) heptane	12.203	43	154806	5.131	ppbV	98
47) cis-1,3-dichloropropene	12.850	75	122494	5.142	ppbV	97
48) 4-methyl-2-pentanone	12.883	43	184208	5.144	ppbV	97
49) trans-1,3-dichloropropene	13.475	75	95470	5.189	ppbV	97
50) 1,1,2-trichloroethane	13.675	97	84653	4.896	ppbV	98
52) toluene	14.000	91	250148	4.823	ppbV	99
54) 2-hexanone	14.292	43	164330	5.308	ppbV	98
55) dibromochloromethane	14.458	129	133089	6.152	ppbV	99
56) 1,2-dibromoethane	14.717	107	134049	5.129	ppbV	99
57) tetrachloroethene	15.192	166	95704	4.778	ppbV	99
58) 1,1,1,2-tetrachloroethane	15.817	131	93469	5.217	ppbV	99
59) chlorobenzene	15.825	112	221689	4.989	ppbV	100
60) ethylbenzene	16.167	91	308447	4.858	ppbV	97
61) m+p-xylene	16.333	91	488831	9.709	ppbV	99
62) bromoform	16.392	173	95775	6.415	ppbV	100
63) styrene	16.642	104	212091	5.097	ppbV	99
64) 1,1,2,2-tetrachloroethane	16.725	83	196673M3	5.280	ppbV	
65) o-xylene	16.733	91	248794	4.897	ppbV	99
66) 1,2,3-Trichloropropane	16.842	75	147708	5.008	ppbV	99
68) isopropylbenzene	17.233	105	347648	5.041	ppbV	97
69) Bromobenzene	17.300	77	195312	5.268	ppbV	100

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab17\2024\01\0107SIM_I\
 Data File : r1737687_Ev2.D
 Acq On : 8 Jan 2024 1:39 PM
 Operator : AIRLAB17:RAY
 Sample : CTO15-SIMSTD5.0
 Misc : WG1872081
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jan 08 15:37:03 2024
 Quant Method : O:\Forensics\Data\Airlab17\2024\01\0107SIM_I\TSIM17_240107.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Mon Jan 08 15:36:14 2024
 Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab17\2024\01\0107SIM_I\r1737679_Ev2.D
 Sub List : Default - All compounds listed

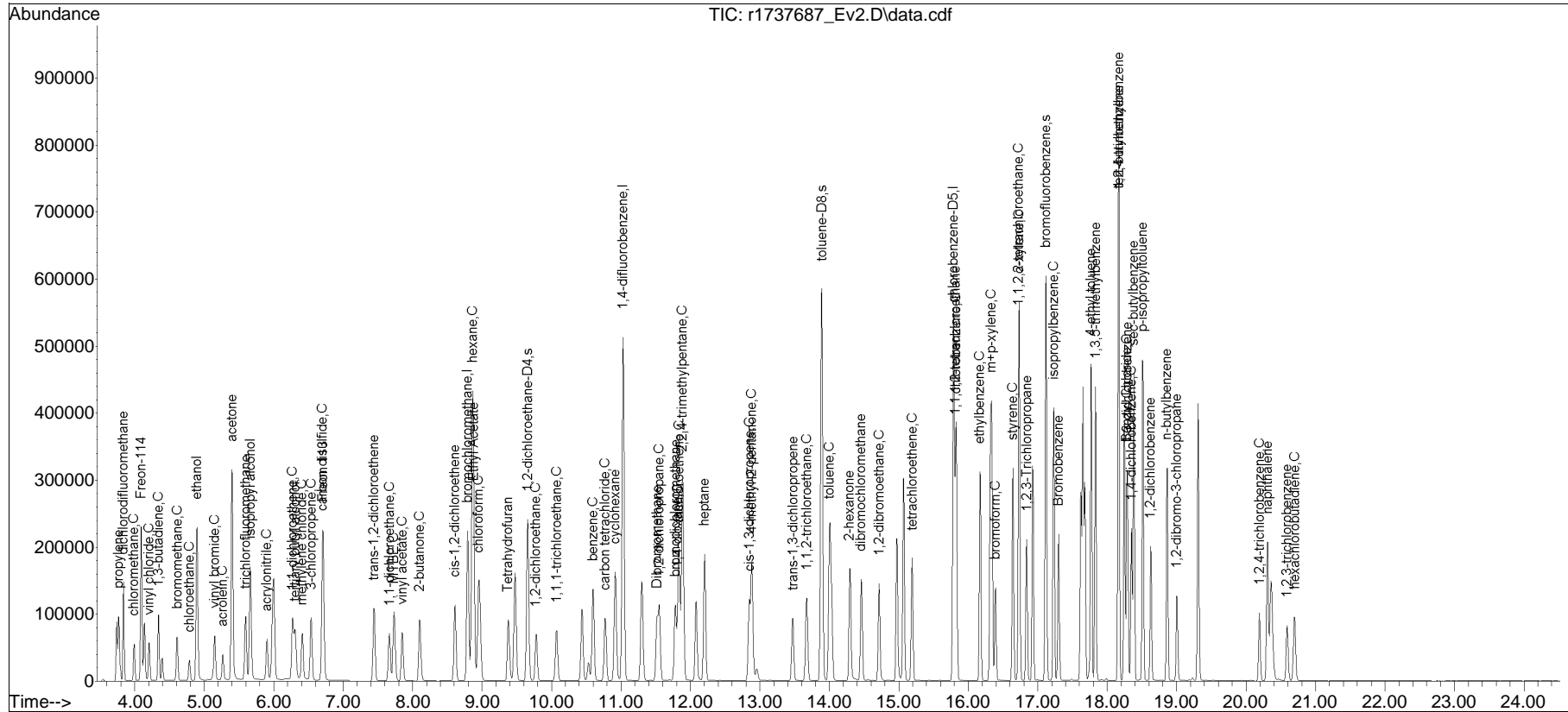
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
70) 4-ethyl toluene	17.767	105	374166	5.487	ppbV	99
71) 1,3,5-trimethylbenzene	17.833	105	301800	5.102	ppbV	97
72) tert-butylbenzene	18.167	119	302892	4.955	ppbV	98
73) 1,2,4-trimethylbenzene	18.167	105	302759	5.152	ppbV	97
74) Benzyl Chloride	18.283	91	178727	5.712	ppbV	99
75) 1,3-dichlorobenzene	18.292	146	183609M3	5.355	ppbV	
76) 1,4-dichlorobenzene	18.350	146	178133	5.394	ppbV	95
77) sec-butylbenzene	18.383	105	430604	4.951	ppbV	97
78) p-isopropyltoluene	18.508	119	339361	4.639	ppbV	98
79) 1,2-dichlorobenzene	18.625	146	168345	5.068	ppbV	96
80) n-butylbenzene	18.858	91	325020M3	5.153	ppbV	
81) 1,2-dibromo-3-chloropr...	19.000	75	73542	5.812	ppbV	96
82) 1,2,4-trichlorobenzene	20.192	180	109002M2	5.191	ppbV	
83) naphthalene	20.308	128	332367	5.206	ppbV	99
84) 1,2,3-trichlorobenzene	20.592	180	102744	5.522	ppbV	100
85) hexachlorobutadiene	20.700	225	104902	4.873	ppbV	99

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

Sub List : Default - All compounds listed4\01\0107SIM_I\r1737679_Ev2.D

Data Path : O:\Forensics\Data\Airlab17\2024\01\0107SIM_I\
Data File : r1737687_Ev2.D
Acq On : 8 Jan 2024 1:39 PM
Operator : AIRLAB17:RAY
Sample : CTO15-SIMSTD5.0
Misc : WG1872081
ALS Vial : 0 Sample Multiplier: 1

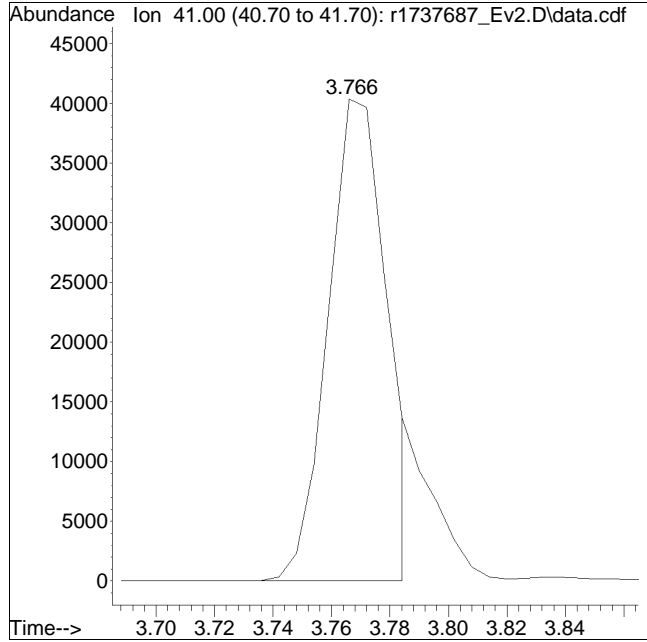
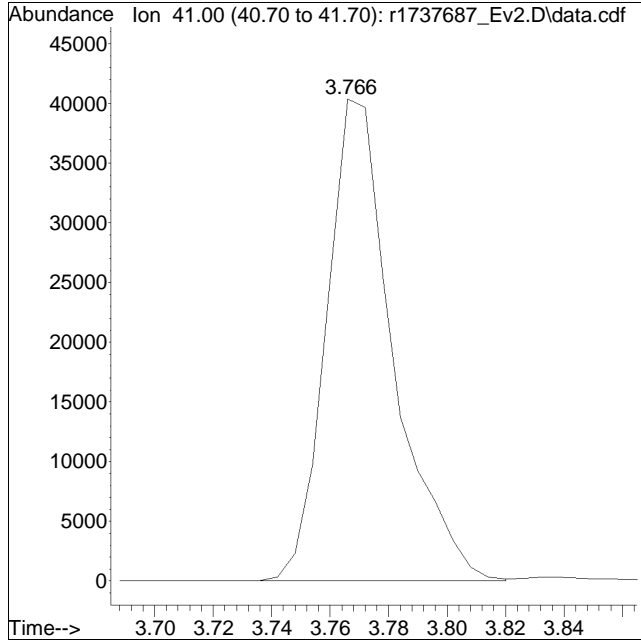
Quant Time: Jan 08 15:37:03 2024
Quant Method : O:\Forensics\Data\Airlab17\2024\01\0107SIM_I\TSIM17_240107.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Mon Jan 08 15:36:14 2024
Response via : Initial Calibration



Manual Integration Report

Data Path : O:\Forensics\Data\Airlab17QMethod : TSIM17_240107.M
Data File : r1737687_Ev2.D Operator : AIRLAB17:RAY
Date Inj'd : 1/8/2020 0:1: 9 Instrument :
Sample : CTO15-SIMSTD5.0 Quant Date : 1/8/2024 3:37 pm

Compound #2: propylene



Original Peak Response = 63964

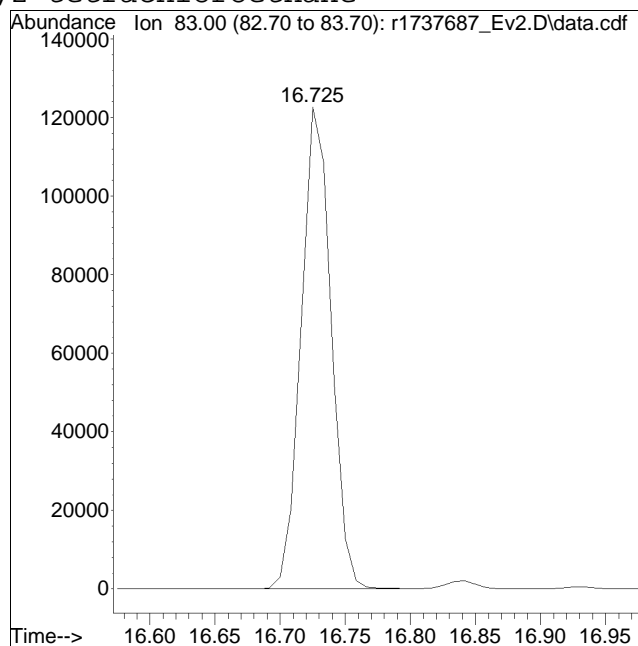
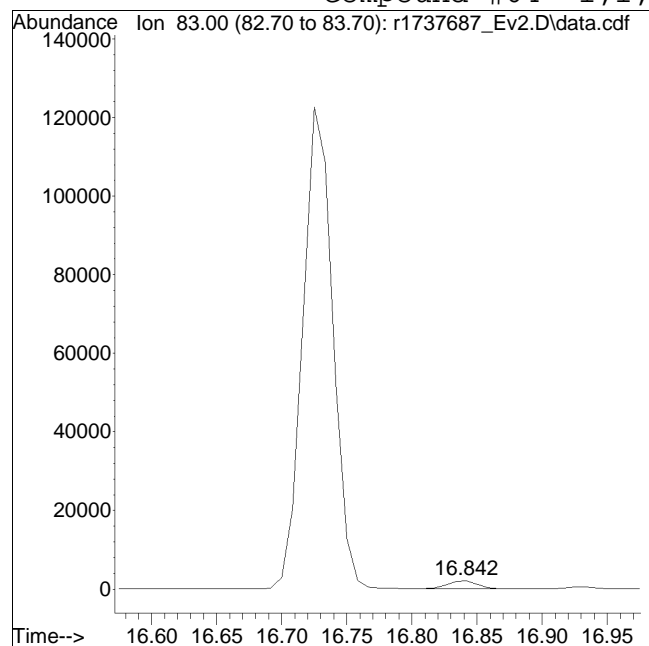
Manual Peak Response = 56532 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

Data Path : O:\Forensics\Data\Airlab17QMethod : TSIM17_240107.M
Data File : r1737687_Ev2.D Operator : AIRLAB17:RAY
Date Inj'd : 1/8/2020 0:1: 9 Instrument :
Sample : CT015-SIMSTD5.0 Quant Date : 1/8/2024 3:37 pm

Compound #64: 1,1,2,2-tetrachloroethane



Original Peak Response = 3342

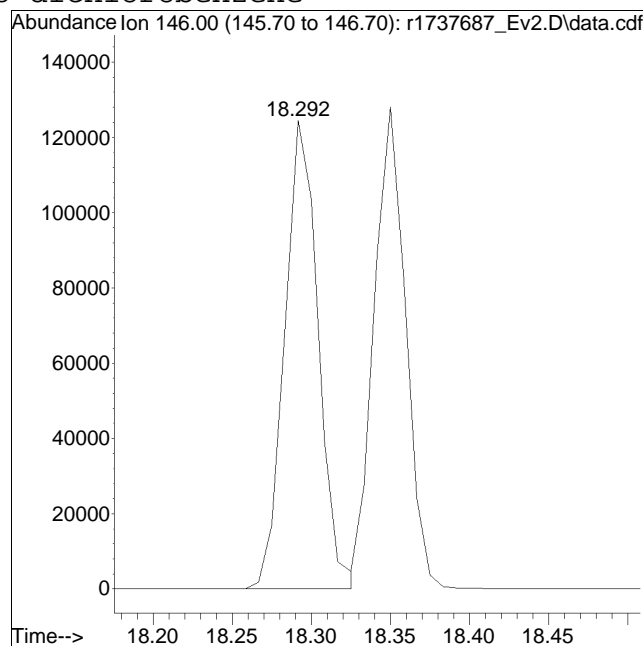
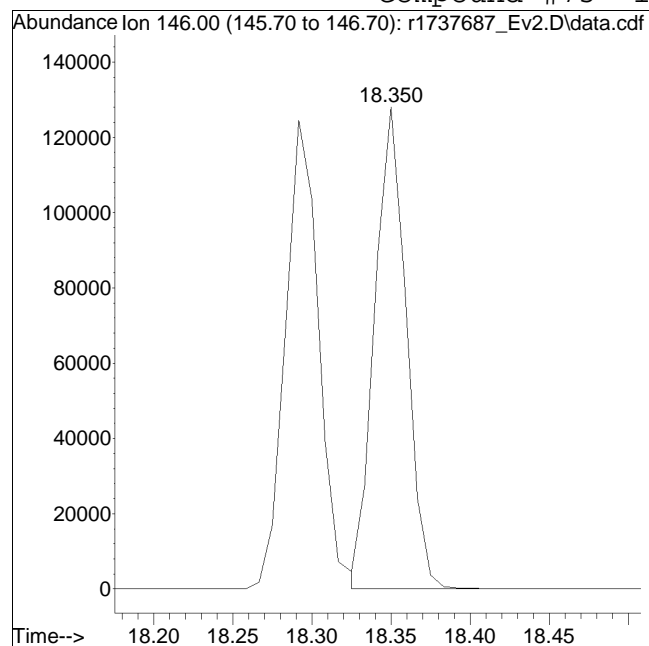
Manual Peak Response = 196673 M3

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : O:\Forensics\Data\Airlab17QMethod : TSIM17_240107.M
Data File : r1737687_Ev2.D Operator : AIRLAB17:RAY
Date Inj'd : 1/8/2020 0:1: 9 Instrument :
Sample : CT015-SIMSTD5.0 Quant Date : 1/8/2024 3:37 pm

Compound #75: 1,3-dichlorobenzene



Original Peak Response = 178133

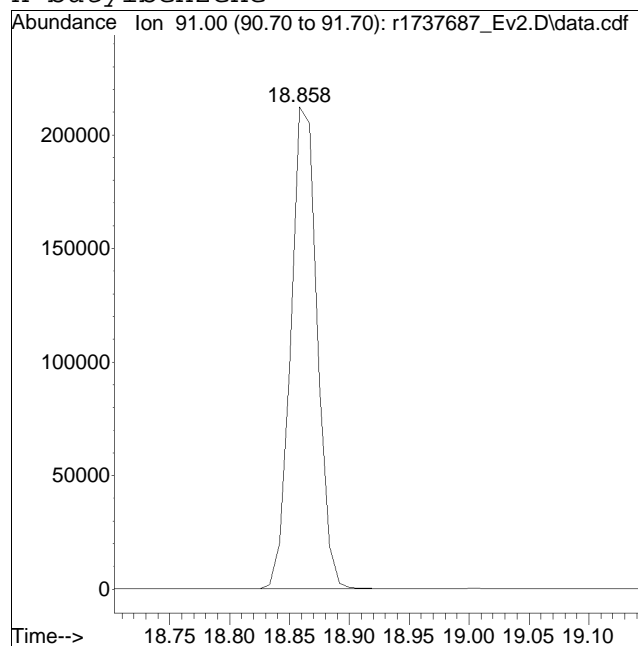
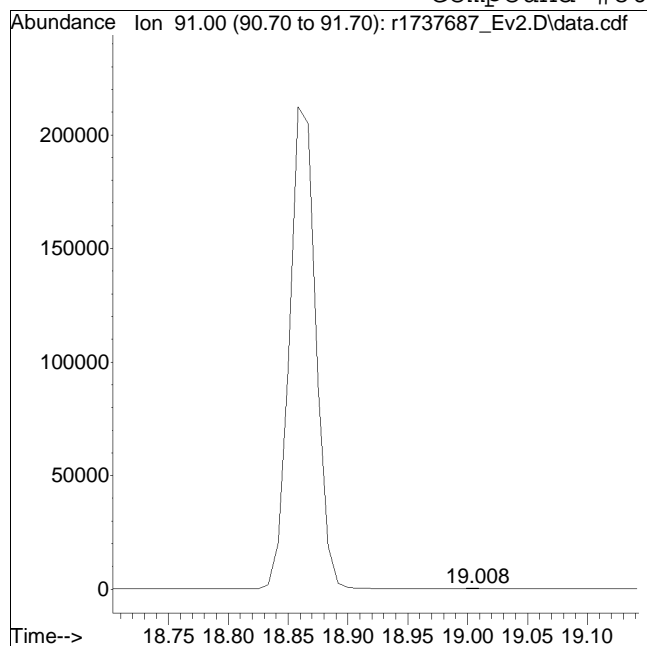
Manual Peak Response = 183609 M3

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : O:\Forensics\Data\Airlab17QMethod : TSIM17_240107.M
Data File : r1737687_Ev2.D Operator : AIRLAB17:RAY
Date Inj'd : 1/8/2020 0:1: 9 Instrument :
Sample : CT015-SIMSTD5.0 Quant Date : 1/8/2024 3:37 pm

Compound #80: n-butylbenzene



Original Peak Response = 396

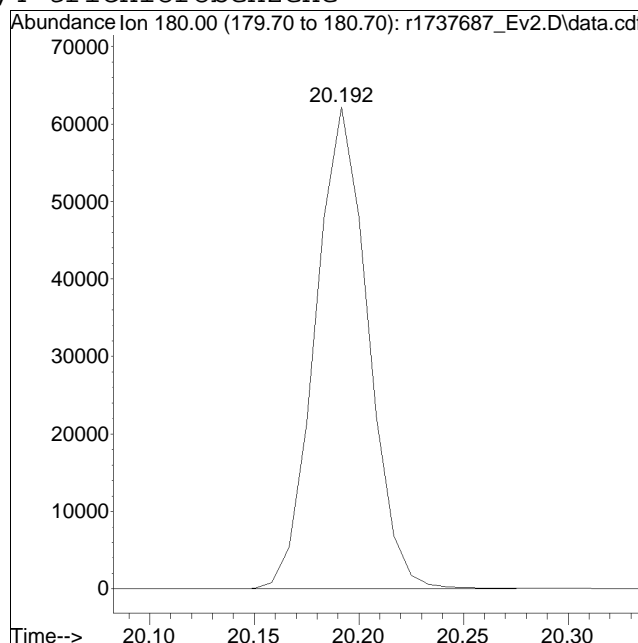
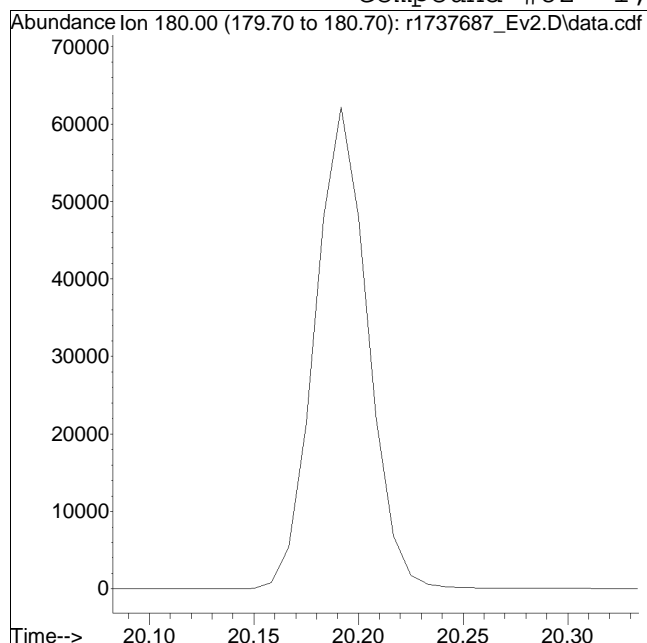
Manual Peak Response = 325020 M3

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : O:\Forensics\Data\Airlab17QMethod : TSIM17_240107.M
Data File : r1737687_Ev2.D Operator : AIRLAB17:RAY
Date Inj'd : 1/8/2020 0:1:9 Instrument :
Sample : CT015-SIMSTD5.0 Quant Date : 1/8/2024 3:37 pm

Compound #82: 1,2,4-trichlorobenzene



Original Peak Response = 0

Manual Peak Response = 109002 M2

M2 = Peak not found by automatic integration algorithm.

Continuing Calibration

Calibration Verification Summary

Form 7

Air Volatiles

Client : TRC Environmental Corp
 Project Name : K710 IAQ
 Instrument ID : AIRLAB17
 Lab File ID : R1738650_EV2
 Sample No : WG1885733-2
 Channel :

Lab Number : L2407645
 Project Number : 457205
 Calibration Date : 02/15/24 16:05
 Init. Calib. Date(s) : 01/07/24 01/08/24
 Init. Calib. Times : 20:20 02:14

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
bromochloromethane	1	1	-	0	30	84	0
propylene	0.483	0.352	-	27.1	30	65	0
dichlorodifluoromethane	1.032	1.109	-	-7.5	30	89	0
chloromethane	0.517	0.461	-	10.8	30	74	0
Freon-114	1.27	1.347	-	-6.1	30	88	0
vinyl chloride	0.546	0.551	-	-0.9	30	85	0
1,3-butadiene	0.447	0.454	-	-1.6	30	84	0
bromomethane	0.476	0.499	-	-4.8	30	89	0
chloroethane	0.25	0.259	-	-3.6	30	88	0
ethanol	0.421	0.447	-	-6.2	30	86	0
vinyl bromide	0.476	0.479	-	-0.6	30	85	0
acrolein	0.274	0.22	-	19.7	30	80	0
acetone	0.649	0.598	-	7.9	30	84	0
trichlorofluoromethane	0.879	0.995	-	-13.2	30	98	0
isopropyl alcohol	0.837	0.656	-	21.6	30	66	0
acrylonitrile	0.469	0.438	-	6.6	30	84	0
1,1-dichloroethene	0.698	0.793	-	-13.6	30	96	0
tertiary butyl alcohol	0.944	0.838	-	11.2	30	77	0
methylene chloride	0.68	0.776	-	-14.1	30	100	0
3-chloropropene	0.741	0.768	-	-3.6	30	87	0
carbon disulfide	1.791	1.674	-	6.5	30	78	0
Freon 113	1.088	1.153	-	-6	30	89	0
trans-1,2-dichloroethene	0.716	0.75	-	-4.7	30	87	0
1,1-dichloroethane	0.909	0.972	-	-6.9	30	88	0
MTBE	1.323	1.251	-	5.4	30	77	0
vinyl acetate	1.25	1.074	-	14.1	30	73	0
2-butanone	1.242	1.218	-	1.9	30	82	0
cis-1,2-dichloroethene	0.688	0.705	-	-2.5	30	86	0
Ethyl Acetate	0.176	0.188	-	-6.8	30	90	0
chloroform	1.001	1.109	-	-10.8	30	93	0
Tetrahydrofuran	0.697	0.674	-	3.3	30	80	0
1,2-dichloroethane	0.563	0.629	-	-11.7	30	98	0
1,4-difluorobenzene	1	1	-	0	30	84	0
hexane	0.305	0.32	-	-4.9	30	90	0
1,1,1-trichloroethane	0.281	0.31	-	-10.3	30	93	0
benzene	0.747	0.683	-	8.6	30	80	0
carbon tetrachloride	0.277	0.331	-	-19.5	30	100	0
cyclohexane	0.332	0.336	-	-1.2	30	88	0
Dibromomethane	0.21	0.219	-	-4.3	30	96	0
1,2-dichloropropane	0.232	0.229	-	1.3	30	87	0
bromodichloromethane	0.332	0.403	-	-21.4	30	101	0
1,4-dioxane	0.141	0.143	-	-1.4	30	87	0
trichloroethene	0.291	0.313	-	-7.6	30	89	0

* Value outside of QC limits.



Calibration Verification Summary

Form 7

Air Volatiles

Client : TRC Environmental Corp
 Project Name : K710 IAQ
 Instrument ID : AIRLAB17
 Lab File ID : R1738650_EV2
 Sample No : WG1885733-2
 Channel :

Lab Number : L2407645
 Project Number : 457205
 Calibration Date : 02/15/24 16:05
 Init. Calib. Date(s) : 01/07/24 01/08/24
 Init. Calib. Times : 20:20 02:14

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
2,2,4-trimethylpentane	1.031	1.046	-	-1.5	30	92	0
heptane	0.437	0.442	-	-1.1	30	85	0
cis-1,3-dichloropropene	0.345	0.319	-	7.5	30	74	0
4-methyl-2-pentanone	0.519	0.509	-	1.9	30	82	0
trans-1,3-dichloropropene	0.267	0.25	-	6.4	30	74	0
1,1,2-trichloroethane	0.251	0.271	-	-8	30	90	0
chlorobenzene-D5	1	1	-	0	30	90	0
toluene	6.081	5.748	-	5.5	30	85	0
2-hexanone	3.63	3.295	-	9.2	30	78	0
dibromochloromethane	2.536	3.245	-	-28	30	109	0
1,2-dibromoethane	3.064	3.137	-	-2.4	30	87	0
tetrachloroethene	2.349	2.275	-	3.2	30	88	0
1,1,1,2-tetrachloroethane	2.1	2.267	-	-8	30	97	0
chlorobenzene	5.21	5.13	-	1.5	30	86	0
ethylbenzene	7.444	7.303	-	1.9	30	85	0
m+p-xylene	5.903	6.066	-	-2.8	30	90	0
bromoform	1.751	2.345	-	-33.9*	30	110	0
styrene	4.879	4.747	-	2.7	30	81	0
1,1,2,2-tetrachloroethane	4.368	4.63	-	-6	30	92	0
o-xylene	5.957	6.179	-	-3.7	30	91	0
1,2,3-Trichloropropane	3.458	3.241	-	6.3	30	87	0
isopropylbenzene	8.086	7.822	-	3.3	30	90	0
Bromobenzene	4.347	4.337	-	0.2	30	90	0
4-ethyl toluene	7.995	8.283	-	-3.6	30	89	0
1,3,5-trimethylbenzene	6.935	7.035	-	-1.4	30	87	0
tert-butylbenzene	7.167	7.05	-	1.6	30	92	0
1,2,4-trimethylbenzene	6.891	6.958	-	-1	30	85	0
Benzyl Chloride	3.668	3.409	-	7.1	30	81	0
1,3-dichlorobenzene	4.02	4.54	-	-12.9	30	94	0
1,4-dichlorobenzene	3.872	4.436	-	-14.6	30	94	0
sec-butylbenzene	10.196	9.543	-	6.4	30	88	0
p-isopropyltoluene	8.577	7.702	-	10.2	30	84	0
1,2-dichlorobenzene	3.895	4.148	-	-6.5	30	93	0
n-butylbenzene	7.396	7.143	-	3.4	30	91	0
1,2-dibromo-3-chloropropan	1.484	1.532	-	-3.2	30	90	0
1,2,4-trichlorobenzene	2.462	2.123	-	13.8	30	72	0
naphthalene	7.485	6.059	-	19.1	30	80	.02
1,2,3-trichlorobenzene	2.182	1.978	-	9.3	30	90	.02
hexachlorobutadiene	2.524	2.513	-	0.4	30	87	.02

* Value outside of QC limits.



Evaluate Continuing Calibration Report

Data Path : O:\Forensics\Data\Airlab17\2024\02\0215SIM\
 Data File : r1738650_Ev2.D
 Acq On : 15 Feb 2024 4:05 PM
 Operator : AIRLAB17:JMB
 Sample : WG1885733-2,3,250,250
 Misc : WG1885733,ICAL20745
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 15 16:09:08 2024
 Quant Method : O:\Forensics\Data\Airlab17\2024\02\0215SIM\TSIM17_240107.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Mon Jan 08 15:36:14 2024
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
 Max. RRF Dev : 30% Max. Rel. Area : 140%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	bromochloromethane	1.000	1.000	0.0	84	0.00
2	propylene	0.483	0.352	27.1	65	0.00
3	dichlorodifluoromethane	1.032	1.109	-7.5	89	0.00
4 C	chloromethane	0.517	0.461	10.8	74	0.00
5	Freon-114	1.270	1.347	-6.1	88	0.00
6 C	vinyl chloride	0.546	0.551	-0.9	85	0.00
7 C	1,3-butadiene	0.447	0.454	-1.6	84	0.00
8 C	bromomethane	0.476	0.499	-4.8	89	0.00
9 C	chloroethane	0.250	0.259	-3.6	88	0.00
10	ethanol	0.421	0.447	-6.2	86	0.00
11 C	vinyl bromide	0.476	0.479	-0.6	85	0.00
12 C	acrolein	0.274	0.220	19.7	80	0.00
13	acetone	0.649	0.598	7.9	84	0.00
14	trichlorofluoromethane	0.879	0.995	-13.2	98	0.00
15	isopropyl alcohol	0.837	0.656	21.6	66	0.00
16 C	acrylonitrile	0.469	0.438	6.6	84	0.00
17 C	1,1-dichloroethene	0.698	0.793	-13.6	96	0.00
18	tertiary butyl alcohol	0.944	0.838	11.2	77	0.00
19 C	methylene chloride	0.680	0.776	-14.1	100	0.00
20 C	3-chloropropene	0.741	0.768	-3.6	87	0.00
21 C	carbon disulfide	1.791	1.674	6.5	78	0.00
22	Freon 113	1.088	1.153	-6.0	89	0.00
23	trans-1,2-dichloroethene	0.716	0.750	-4.7	87	0.00
24 C	1,1-dichloroethane	0.909	0.972	-6.9	88	0.00
25 C	MTBE	1.323	1.251	5.4	77	0.00
26 C	vinyl acetate	1.250	1.074	14.1	73	0.00
27 C	2-butanone	1.242	1.218	1.9	82	0.00
28	cis-1,2-dichloroethene	0.688	0.705	-2.5	86	0.00
29	Ethyl Acetate	0.176	0.188	-6.8	90	0.00
30 C	chloroform	1.001	1.109	-10.8	93	0.00
31	Tetrahydrofuran	0.697	0.674	3.3	80	0.00
32 C	1,2-dichloroethane	0.563	0.629	-11.7	98	0.00
33 I	1,4-difluorobenzene	1.000	1.000	0.0	84	0.00
34 C	hexane	0.305	0.320	-4.9	90	0.00
36 C	1,1,1-trichloroethane	0.281	0.310	-10.3	93	0.00
37 C	benzene	0.747	0.683	8.6	80	0.00
38 C	carbon tetrachloride	0.277	0.331	-19.5	100	0.00
39	cyclohexane	0.332	0.336	-1.2	88	0.00

Evaluate Continuing Calibration Report

Data Path : O:\Forensics\Data\Airlab17\2024\02\0215SIM\
 Data File : r1738650_Ev2.D
 Acq On : 15 Feb 2024 4:05 PM
 Operator : AIRLAB17:JMB
 Sample : WG1885733-2,3,250,250
 Misc : WG1885733,ICAL20745
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 15 16:09:08 2024
 Quant Method : O:\Forensics\Data\Airlab17\2024\02\0215SIM\TSIM17_240107.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Mon Jan 08 15:36:14 2024
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
 Max. RRF Dev : 30% Max. Rel. Area : 140%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
40	Dibromomethane	0.210	0.219	-4.3	96	0.00
41 C	1,2-dichloropropane	0.232	0.229	1.3	87	0.00
42	bromodichloromethane	0.332	0.403	-21.4	101	0.00
43 C	1,4-dioxane	0.141	0.143	-1.4	87	0.00
44 C	trichloroethene	0.291	0.313	-7.6	89	0.00
45 C	2,2,4-trimethylpentane	1.031	1.046	-1.5	92	0.00
46	heptane	0.437	0.442	-1.1	85	0.00
47 C	cis-1,3-dichloropropene	0.345	0.319	7.5	74	0.00
48 C	4-methyl-2-pentanone	0.519	0.509	1.9	82	0.00
49	trans-1,3-dichloropropene	0.267	0.250	6.4	74	0.00
50 C	1,1,2-trichloroethane	0.251	0.271	-8.0	90	0.00
51 I	chlorobenzene-D5	1.000	1.000	0.0	90	0.00
52 C	toluene	6.081	5.748	5.5	85	0.00
54	2-hexanone	3.630	3.295	9.2	78	0.00
55	dibromochloromethane	2.536	3.245	-28.0	109	0.00
56 C	1,2-dibromoethane	3.064	3.137	-2.4	87	0.00
57 C	tetrachloroethene	2.349	2.275	3.2	88	0.00
58	1,1,1,2-tetrachloroethane	2.100	2.267	-8.0	97	0.00
59 C	chlorobenzene	5.210	5.130	1.5	86	0.00
60 C	ethylbenzene	7.444	7.303	1.9	85	0.00
61 C	m+p-xylene	5.903	6.066	-2.8	90	0.00
62 C	bromoform	1.751	2.345	-33.9#	110	0.00
63 C	styrene	4.879	4.747	2.7	81	0.00
64 C	1,1,2,2-tetrachloroethane	4.368	4.630	-6.0	92	0.00
65 C	o-xylene	5.957	6.179	-3.7	91	0.00
66	1,2,3-Trichloropropane	3.458	3.241	6.3	87	0.00
68 C	isopropylbenzene	8.086	7.822	3.3	90	0.00
69	Bromobenzene	4.347	4.337	0.2	90	0.00
70	4-ethyl toluene	7.995	8.283	-3.6	89	0.00
71	1,3,5-trimethylbenzene	6.935	7.035	-1.4	87	0.00
72	tert-butylbenzene	7.167	7.050	1.6	92	0.00
73	1,2,4-trimethylbenzene	6.891	6.958	-1.0	85	0.00
74 C	Benzyl Chloride	3.668	3.409	7.1	81	0.00
75	1,3-dichlorobenzene	4.020	4.540	-12.9	94	0.00
76 C	1,4-dichlorobenzene	3.872	4.436	-14.6	94	0.00
77	sec-butylbenzene	10.196	9.543	6.4	88	0.00
78	p-isopropyltoluene	8.577	7.702	10.2	84	0.00
79	1,2-dichlorobenzene	3.895	4.148	-6.5	93	0.00

Evaluate Continuing Calibration Report

Data Path : O:\Forensics\Data\Airlab17\2024\02\0215SIM\
 Data File : r1738650_Ev2.D
 Acq On : 15 Feb 2024 4:05 PM
 Operator : AIRLAB17:JMB
 Sample : WG1885733-2,3,250,250
 Misc : WG1885733,ICAL20745
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 15 16:09:08 2024
 Quant Method : O:\Forensics\Data\Airlab17\2024\02\0215SIM\TSIM17_240107.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Mon Jan 08 15:36:14 2024
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
 Max. RRF Dev : 30% Max. Rel. Area : 140%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
80	n-butylbenzene	7.396	7.143	3.4	91	0.00
81	1,2-dibromo-3-chloropropane	1.484	1.532	-3.2	90	0.00
82 C	1,2,4-trichlorobenzene	2.462	2.123	13.8	72	0.00
83	naphthalene	7.485	6.059	19.1	80	0.02
84	1,2,3-trichlorobenzene	2.182	1.978	9.3	90	0.02
85 C	hexachlorobutadiene	2.524	2.513	0.4	87	0.02

* Evaluation of CC level amount vs concentration.
 (#) = Out of Range SPCC's out = 0 CCC's out = 1

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab17\2024\02\0215SIM\
 Data File : r1738650_Ev2.D
 Acq On : 15 Feb 2024 4:05 PM
 Operator : AIRLAB17:JMB
 Sample : WG1885733-2,3,250,250
 Misc : WG1885733,ICAL20745
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 15 16:09:08 2024
 Quant Method : O:\Forensics\Data\Airlab17\2024\02\0215SIM\TSIM17_240107.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Mon Jan 08 15:36:14 2024
 Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab17\2024\02\0215SIM\r1738650_Ev2.D
 Sub List : Default-LCS-AP2 - All compounds listed

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

Internal Standards						
1) bromochloromethane	8.833	49	214398	10.000	ppbV	0.00
Standard Area =	214398		Recovery =	100.00%		
33) 1,4-difluorobenzene	11.070	114	619357	10.000	ppbV	0.00
Standard Area =	619357		Recovery =	100.00%		
51) chlorobenzene-D5	15.825	54	82380	10.000	ppbV	0.00
Standard Area =	82380		Recovery =	100.00%		

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) propylene	3.790	41	37754M6	3.649	ppbV	
3) dichlorodifluoromethane	3.862	85	118845	5.372	ppbV	98
4) chloromethane	4.012	50	49436	4.459	ppbV	100
5) Freon-114	4.120	85	144388	5.304	ppbV	96
6) vinyl chloride	4.234	62	59113	5.053	ppbV	100
7) 1,3-butadiene	4.366	54	48655	5.075	ppbV	86
8) bromomethane	4.636	94	53447	5.243	ppbV	99
9) chloroethane	4.816	64	27741	5.176	ppbV	97
10) ethanol	4.924	31	239708	26.571	ppbV	93
11) vinyl bromide	5.183	106	51318	5.028	ppbV	98
12) acrolein	5.300	56	23615	4.026	ppbV	99
13) acetone	5.433	43	320748	23.055	ppbV	99
14) trichlorofluoromethane	5.630	101	106611	5.660	ppbV	99
15) isopropyl alcohol	5.700	45	175930	9.803	ppbV	100
16) acrylonitrile	5.937	53	46925	4.667	ppbV	100
17) 1,1-dichloroethene	6.306	61	85059	5.682	ppbV	97
18) tertiary butyl alcohol	6.342	59	89823	4.439	ppbV #	77
19) methylene chloride	6.450	49	83175	5.702	ppbV	97
20) 3-chloropropene	6.576	41	82364	5.186	ppbV	96
21) carbon disulfide	6.744	76	179400	4.672	ppbV	100
22) Freon 113	6.750	101	123614	5.298	ppbV	97
23) trans-1,2-dichloroethene	7.483	61	80357	5.233	ppbV	99
24) 1,1-dichloroethane	7.700	63	104144	5.346	ppbV	99
25) MTBE	7.775	73	134136	4.731	ppbV	99
26) vinyl acetate	7.892	43	115099	4.294	ppbV	99
27) 2-butanone	8.142	43	130584	4.903	ppbV	99
28) cis-1,2-dichloroethene	8.650	61	75621	5.130	ppbV	99
29) Ethyl Acetate	8.917	61	20128	5.338	ppbV	88
30) chloroform	8.992	83	118905	5.538	ppbV	99

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab17\2024\02\0215SIM\
 Data File : r1738650_Ev2.D
 Acq On : 15 Feb 2024 4:05 PM
 Operator : AIRLAB17:JMB
 Sample : WG1885733-2,3,250,250
 Misc : WG1885733,ICAL20745
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 15 16:09:08 2024
 Quant Method : O:\Forensics\Data\Airlab17\2024\02\0215SIM\TSIM17_240107.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Mon Jan 08 15:36:14 2024
 Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab17\2024\02\0215SIM\r1738650_Ev2.D
 Sub List : Default-LCS-AP2 - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
31) Tetrahydrofuran	9.417	42	72281	4.840	ppbV	99
32) 1,2-dichloroethane	9.817	62	67474	5.590	ppbV	96
34) hexane	8.908	57	99014	5.250	ppbV	91
36) 1,1,1-trichloroethane	10.117	97	95914	5.508	ppbV	99
37) benzene	10.637	78	211584	4.575	ppbV	98
38) carbon tetrachloride	10.817	117	102396	5.958	ppbV	96
39) cyclohexane	10.957	56	104066	5.066	ppbV	97
40) Dibromomethane	11.557	93	67915	5.216	ppbV #	95
41) 1,2-dichloropropane	11.590	63	70963	4.947	ppbV	98
42) bromodichloromethane	11.817	83	124936	6.074	ppbV	100
43) 1,4-dioxane	11.857	88	44215	5.065	ppbV	95
44) trichloroethene	11.877	130	96812	5.363	ppbV	95
45) 2,2,4-trimethylpentane	11.923	57	323939	5.071	ppbV	98
46) heptane	12.243	43	136764	5.048	ppbV	97
47) cis-1,3-dichloropropene	12.892	75	98936	4.625	ppbV	96
48) 4-methyl-2-pentanone	12.925	43	157603	4.901	ppbV	97
49) trans-1,3-dichloropropene	13.517	75	77538	4.693	ppbV	97
50) 1,1,2-trichloroethane	13.717	97	83934	5.406	ppbV	98
52) toluene	14.042	91	236773	4.726	ppbV	99
54) 2-hexanone	14.333	43	135707	4.538	ppbV	97
55) dibromochloromethane	14.500	129	133682	6.398	ppbV	100
56) 1,2-dibromoethane	14.750	107	129221	5.119	ppbV	100
57) tetrachloroethene	15.225	166	93705	4.843	ppbV	96
58) 1,1,1,2-tetrachloroethane	15.858	131	93397	5.397	ppbV	96
59) chlorobenzene	15.875	112	211314	4.924	ppbV	95
60) ethylbenzene	16.225	91	300795	4.905	ppbV	99
61) m+p-xylene	16.392	91	499716	10.276	ppbV	98
62) bromoform	16.458	173	96577	6.697	ppbV	100
63) styrene	16.717	104	195538	4.865	ppbV	98
64) 1,1,2,2-tetrachloroethane	16.808	83	190721	5.301	ppbV	99
65) o-xylene	16.808	91	254525	5.187	ppbV	99
66) 1,2,3-Trichloropropane	16.925	75	133510	4.687	ppbV	96
68) isopropylbenzene	17.333	105	322169	4.836	ppbV	96
69) Bromobenzene	17.400	77	178657	4.989	ppbV	96
70) 4-ethyl toluene	17.892	105	341180	5.180	ppbV	99
71) 1,3,5-trimethylbenzene	17.950	105	289777	5.072	ppbV	99
72) tert-butylbenzene	18.300	119	290395	4.918	ppbV	100
73) 1,2,4-trimethylbenzene	18.300	105	286597	5.049	ppbV	95
74) Benzyl Chloride	18.417	91	140414	4.646	ppbV	96
75) 1,3-dichlorobenzene	18.433	146	186993	5.647	ppbV	99

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab17\2024\02\0215SIM\
 Data File : r1738650_Ev2.D
 Acq On : 15 Feb 2024 4:05 PM
 Operator : AIRLAB17:JMB
 Sample : WG1885733-2,3,250,250
 Misc : WG1885733,ICAL20745
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 15 16:09:08 2024
 Quant Method : O:\Forensics\Data\Airlab17\2024\02\0215SIM\TSIM17_240107.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Mon Jan 08 15:36:14 2024
 Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab17\2024\02\0215SIM\r1738650_Ev2.D
 Sub List : Default-LCS-AP2 - All compounds listed

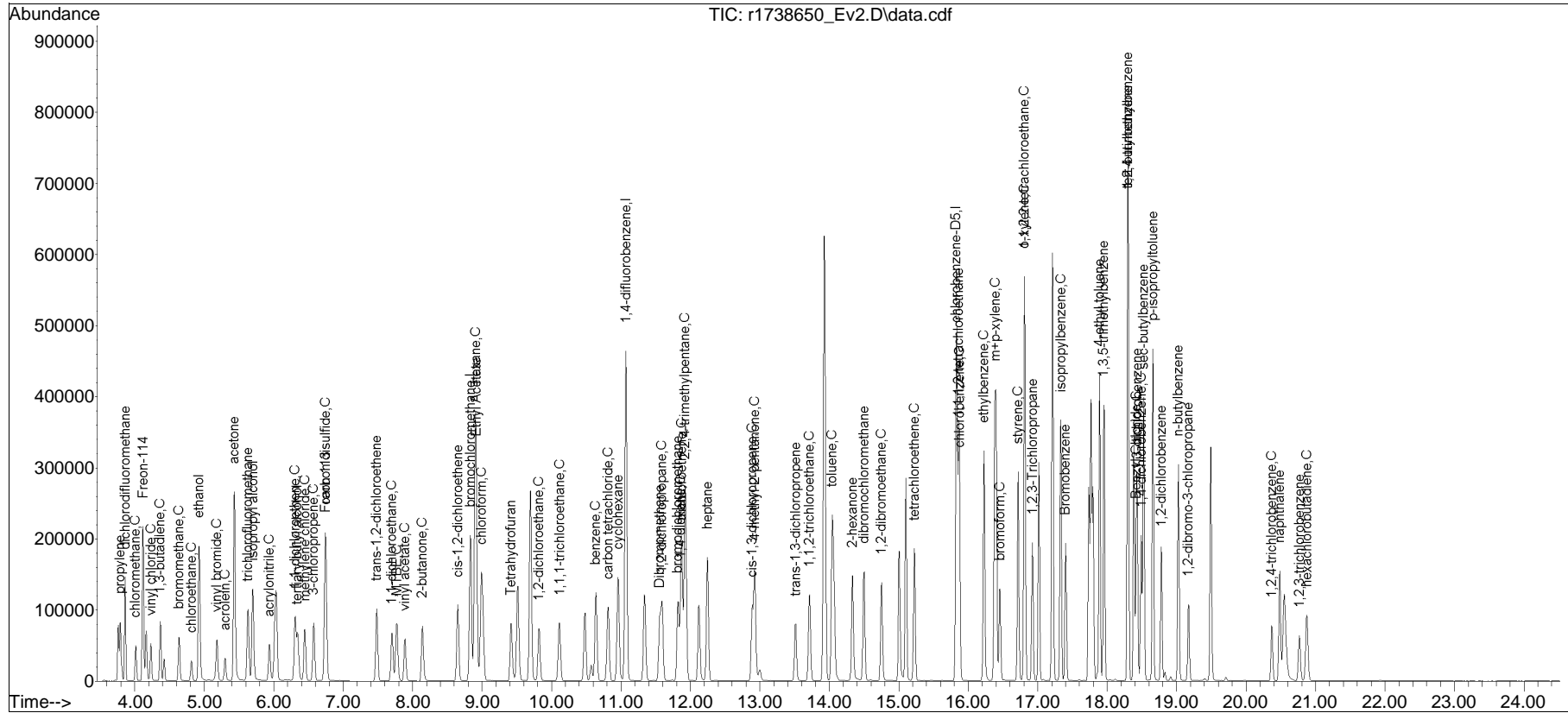
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
76) 1,4-dichlorobenzene	18.492	146	182714M3	5.729	ppbV	
77) sec-butylbenzene	18.525	105	393061	4.679	ppbV	100
78) p-isopropyltoluene	18.658	119	317245	4.490	ppbV	98
79) 1,2-dichlorobenzene	18.783	146	170873	5.326	ppbV	90
80) n-butylbenzene	19.025	91	294234	4.829	ppbV	95
81) 1,2-dibromo-3-chloropr...	19.167	75	63087	5.162	ppbV	96
82) 1,2,4-trichlorobenzene	20.367	180	87462	4.312	ppbV	95
83) naphthalene	20.483	128	249586	4.048	ppbV	100
84) 1,2,3-trichlorobenzene	20.767	180	81482	4.534	ppbV	96
85) hexachlorobutadiene	20.875	225	103529	4.979	ppbV	97

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

Sub List : Default-LCS-AP2 - All compounds listed5SIM\r1738650_Ev2.D

Data Path : O:\Forensics\Data\Airlab17\2024\02\0215SIM\
Data File : r1738650_Ev2.D
Acq On : 15 Feb 2024 4:05 PM
Operator : AIRLAB17:JMB
Sample : WG1885733-2,3,250,250
Misc : WG1885733,ICAL20745
ALS Vial : 0 Sample Multiplier: 1

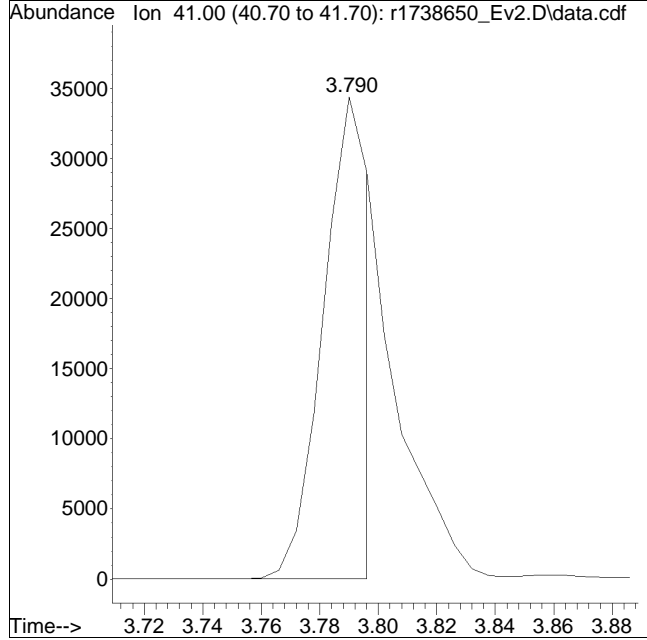
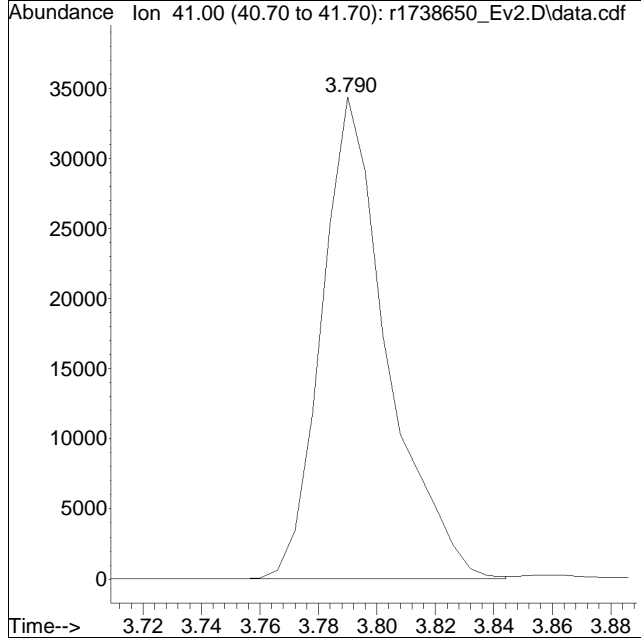
Quant Time: Feb 15 16:09:08 2024
Quant Method : O:\Forensics\Data\Airlab17\2024\02\0215SIM\TSM17_240107.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Mon Jan 08 15:36:14 2024
Response via : Initial Calibration



Manual Integration Report

Data Path : O:\Forensics\Data\Airlab17QMethod : TSIM17_240107.M
Data File : r1738650_Ev2.D Operator : AIRLAB17:JMB
Date Inj'd : 2/15/2020 0:4: 5 Instrument :
Sample : WG1885733-2,3,250,250 Quant Date : 2/15/2024 4:09 pm

Compound #2: propylene



Original Peak Response = 53555

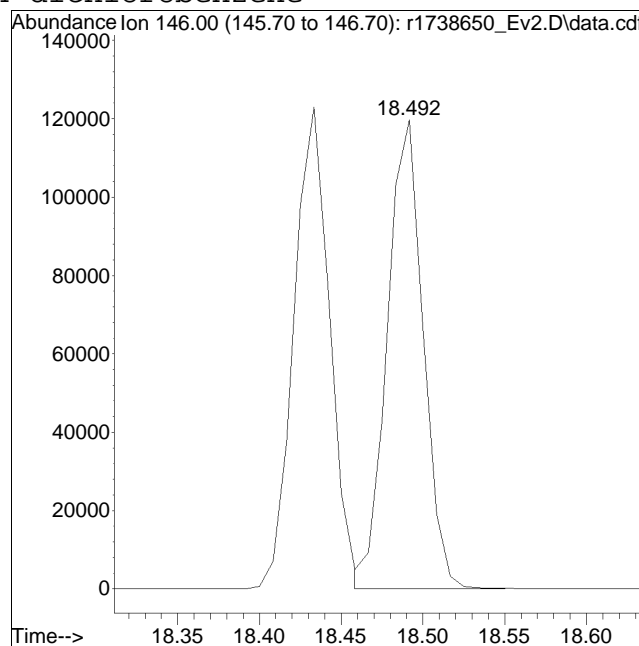
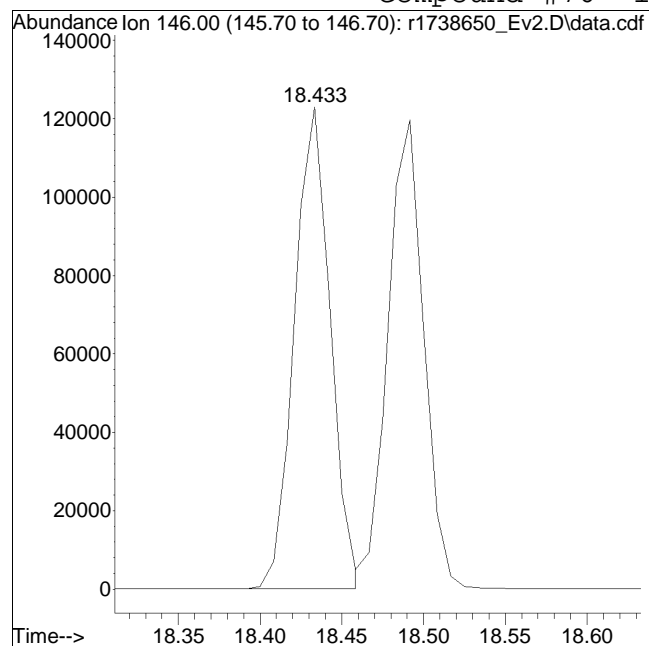
Manual Peak Response = 37754 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

Data Path : O:\Forensics\Data\Airlab17QMethod : TSIM17_240107.M
Data File : r1738650_Ev2.D Operator : AIRLAB17:JMB
Date Inj'd : 2/15/2020 0:4: 5 Instrument :
Sample : WG1885733-2,3,250,250 Quant Date : 2/15/2024 4:09 pm

Compound #76: 1,4-dichlorobenzene



Original Peak Response = 186993

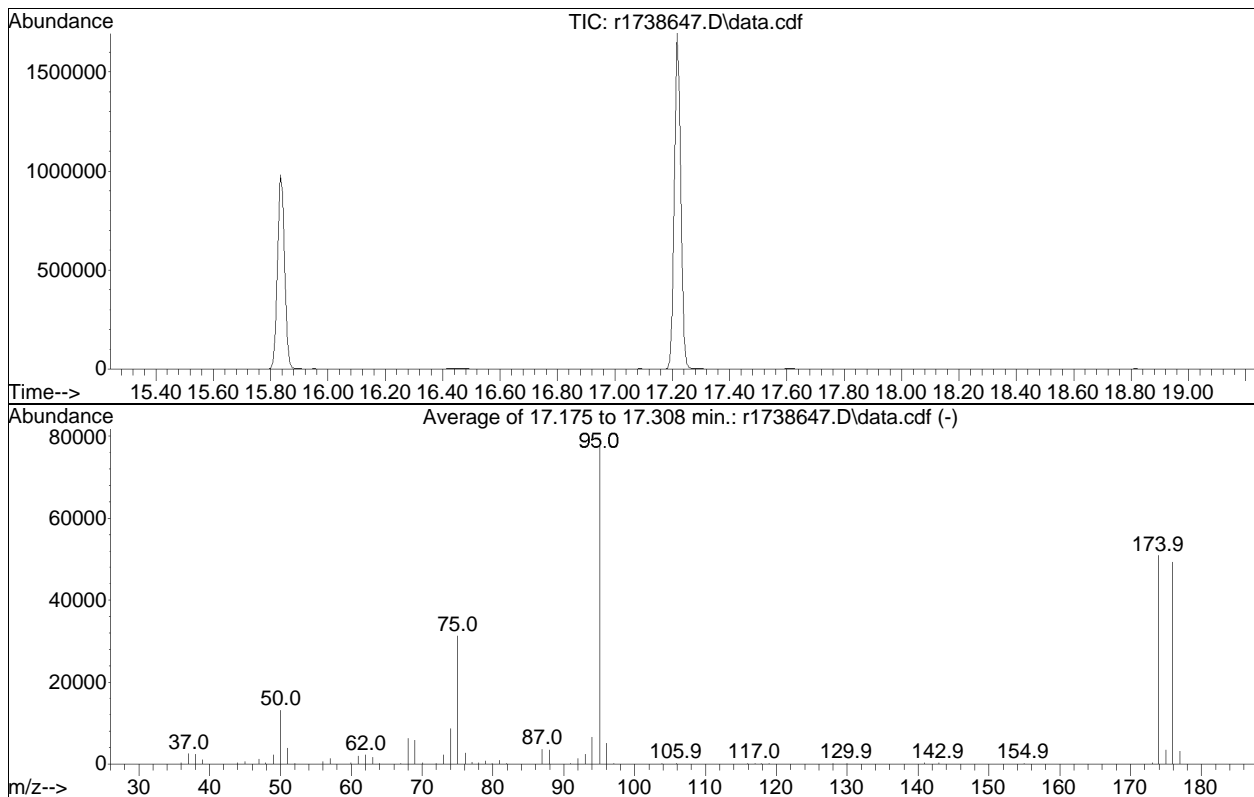
Manual Peak Response = 182714 M3

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Data Path : O:\Forensics\Data\Airlab17\2024\02\0215SIM\
 Data File : r1738647.D
 Acq On : 15 Feb 2024 2:00 PM
 Operator : AIRLAB17:JMB
 Sample : WG1885733-1,3,250,250
 Misc : WG1885733,ICAL20745
 ALS Vial : 0 Sample Multiplier: 1

Integration File: rteint.p

Method : O:\Forensics\Data\Airlab17\2024\02\0215SIM\TSIM17_240107.M
 Title : TO-14A/TO-15 SIM/Full Scan Analysis
 Last Update : Mon Jan 08 15:36:12 2024



Spectrum Information: Average of 17.175 to 17.308 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	17.0	13227	PASS
75	95	30	66	40.1	31253	PASS
95	95	100	100	100.0	77965	PASS
96	95	5	9	6.5	5091	PASS
173	174	0.00	2	0.7	358	PASS
174	95	50	120	65.3	50901	PASS
175	174	4	9	7.0	3549	PASS
176	174	93	101	96.8	49251	PASS
177	176	5	9	6.5	3203	PASS

Volatiles Raw QC Data

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab17\2024\02\0215SIM\
 Data File : r1738652_Ev2.D
 Acq On : 15 Feb 2024 7:40 PM
 Operator : AIRLAB17:JMB
 Sample : WG1885733-4,3,250,250
 Misc : WG1885733,ICAL20745
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 16 08:13:00 2024
 Quant Method : O:\Forensics\Data\Airlab17\2024\02\0215SIM\TSIM17_240107.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Mon Jan 08 15:36:14 2024
 Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab17\2024\02\0215SIM\r1738650_Ev2.D
 Sub List : Default-LCS-AP2 - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	8.842	49	215714	10.000	ppbV	0.00
Standard Area =	214398		Recovery =	100.61%		
33) 1,4-difluorobenzene	11.083	114	605534	10.000	ppbV	0.01
Standard Area =	619357		Recovery =	97.77%		
51) chlorobenzene-D5	15.842	54	78066	10.000	ppbV	0.02
Standard Area =	82380		Recovery =	94.76%		

System Monitoring Compounds

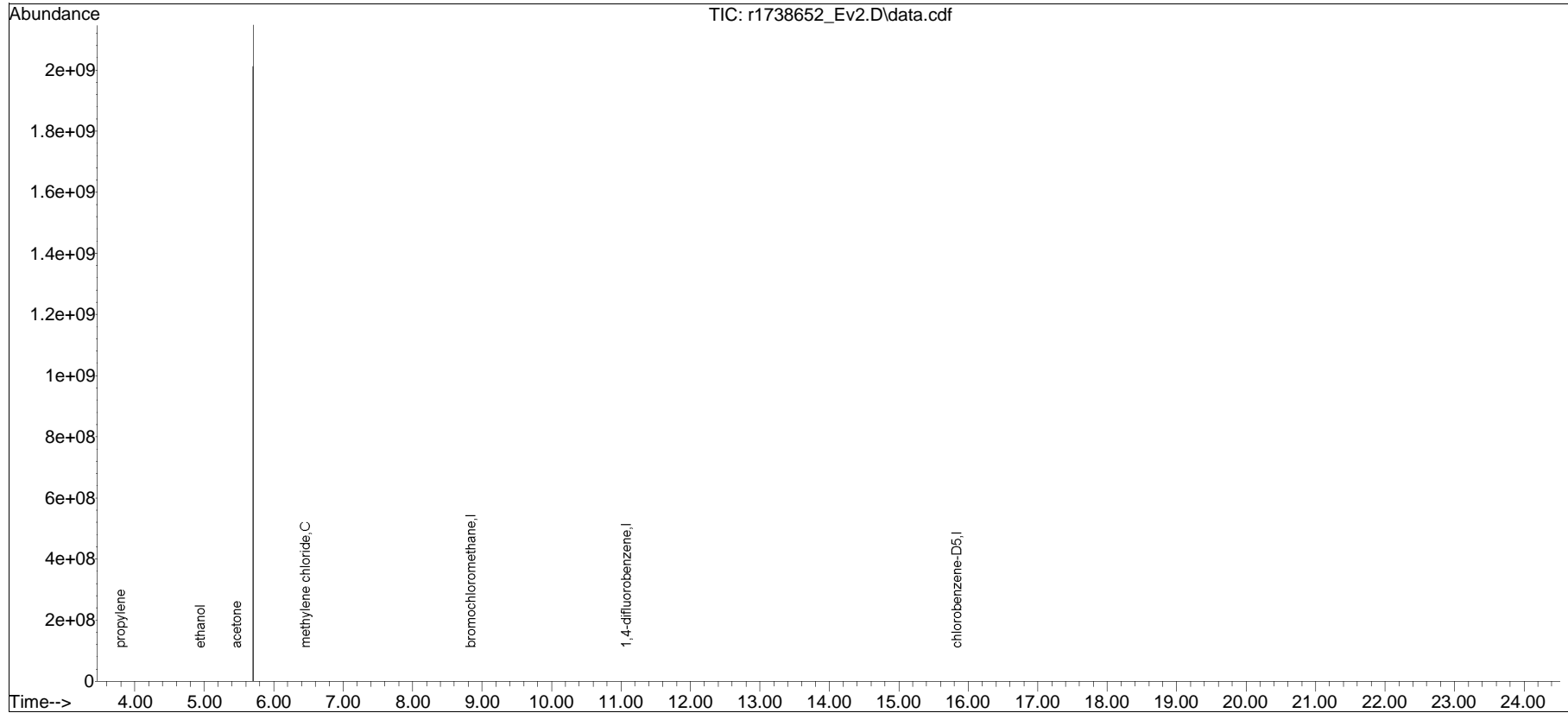
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
6) vinyl chloride	0.000		0		N.D.	
17) 1,1-dichloroethene	0.000		0		N.D.	
28) cis-1,2-dichloroethene	8.642		0		N.D.	
36) 1,1,1-trichloroethane	0.000		0		N.D.	
38) carbon tetrachloride	0.000		0		N.D.	
44) trichloroethene	0.000		0		N.D.	
57) tetrachloroethene	0.000		0		N.D.	

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

Sub List : Default-LCS-AP2 - All compounds listed5SIM\r1738650_Ev2.D

Data Path : O:\Forensics\Data\Airlab17\2024\02\0215SIM\
Data File : r1738652_Ev2.D
Acq On : 15 Feb 2024 7:40 PM
Operator : AIRLAB17:JMB
Sample : WG1885733-4,3,250,250
Misc : WG1885733,ICAL20745
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 16 08:13:00 2024
Quant Method : O:\Forensics\Data\Airlab17\2024\02\0215SIM\TSIM17_240107.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Mon Jan 08 15:36:14 2024
Response via : Initial Calibration



Manual Integration Report

Data Path : O:\Forensics\Data\Airlab17QMethod : TSIM17_240107.M
Data File : r1738652_Ev2.D Operator : AIRLAB17:JMB
Date Inj'd : 2/15/2020 0:7: 0 Instrument :
Sample : WG1885733-4,3,250,250 Quant Date : 2/16/2024 8:13 am

There are no manual integrations or false positives in this file.

Evaluate Continuing Calibration Report

Data Path : O:\Forensics\Data\Airlab17\2024\02\0215SIM\
 Data File : r1738650_Ev2.D
 Acq On : 15 Feb 2024 4:05 PM
 Operator : AIRLAB17:JMB
 Sample : WG1885733-3,3,250,250
 Misc : WG1885733,ICAL20745
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 15 16:09:08 2024
 Quant Method : O:\Forensics\Data\Airlab17\2024\02\0215SIM\TSIM17_240107.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Mon Jan 08 15:36:14 2024
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
 Max. RRF Dev : 30% Max. Rel. Area : 140%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	bromochloromethane	10.000	10.000	0.0	84	0.00
2	propylene	5.000	3.649	27.0	65	0.00
3	dichlorodifluoromethane	5.000	5.372	-7.4	89	0.00
4 C	chloromethane	5.000	4.459	10.8	74	0.00
5	Freon-114	5.000	5.304	-6.1	88	0.00
6 C	vinyl chloride	5.000	5.053	-1.1	85	0.00
7 C	1,3-butadiene	5.000	5.075	-1.5	84	0.00
8 C	bromomethane	5.000	5.243	-4.9	89	0.00
9 C	chloroethane	5.000	5.176	-3.5	88	0.00
10	ethanol	25.000	26.571	-6.3	86	0.00
11 C	vinyl bromide	5.000	5.028	-0.6	85	0.00
12 C	acrolein	5.000	4.026	19.5	80	0.00
13	acetone	25.000	23.055	7.8	84	0.00
14	trichlorofluoromethane	5.000	5.660	-13.2	98	0.00
15	isopropyl alcohol	12.500	9.803	21.6	66	0.00
16 C	acrylonitrile	5.000	4.667	6.7	84	0.00
17 C	1,1-dichloroethene	5.000	5.682	-13.6	96	0.00
18	tertiary butyl alcohol	5.000	4.439	11.2	77	0.00
19 C	methylene chloride	5.000	5.702	-14.0	100	0.00
20 C	3-chloropropene	5.000	5.186	-3.7	87	0.00
21 C	carbon disulfide	5.000	4.672	6.6	78	0.00
22	Freon 113	5.000	5.298	-6.0	89	0.00
23	trans-1,2-dichloroethene	5.000	5.233	-4.7	87	0.00
24 C	1,1-dichloroethane	5.000	5.346	-6.9	88	0.00
25 C	MTBE	5.000	4.731	5.4	77	0.00
26 C	vinyl acetate	5.000	4.294	14.1	73	0.00
27 C	2-butanone	5.000	4.903	1.9	82	0.00
28	cis-1,2-dichloroethene	5.000	5.130	-2.6	86	0.00
29	Ethyl Acetate	5.000	5.338	-6.8	90	0.00
30 C	chloroform	5.000	5.538	-10.8	93	0.00
31	Tetrahydrofuran	5.000	4.840	3.2	80	0.00
32 C	1,2-dichloroethane	5.000	5.590	-11.8	98	0.00
33 I	1,4-difluorobenzene	10.000	10.000	0.0	84	0.00
34 C	hexane	5.000	5.250	-5.0	90	0.00
36 C	1,1,1-trichloroethane	5.000	5.508	-10.2	93	0.00
37 C	benzene	5.000	4.575	8.5	80	0.00
38 C	carbon tetrachloride	5.000	5.958	-19.2	100	0.00
39	cyclohexane	5.000	5.066	-1.3	88	0.00

Evaluate Continuing Calibration Report

Data Path : O:\Forensics\Data\Airlab17\2024\02\0215SIM\
 Data File : r1738650_Ev2.D
 Acq On : 15 Feb 2024 4:05 PM
 Operator : AIRLAB17:JMB
 Sample : WG1885733-3,3,250,250
 Misc : WG1885733,ICAL20745
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 15 16:09:08 2024
 Quant Method : O:\Forensics\Data\Airlab17\2024\02\0215SIM\TSIM17_240107.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Mon Jan 08 15:36:14 2024
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
 Max. RRF Dev : 30% Max. Rel. Area : 140%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
40	Dibromomethane	5.000	5.216	-4.3	96	0.00
41 C	1,2-dichloropropane	5.000	4.947	1.1	87	0.00
42	bromodichloromethane	5.000	6.074	-21.5	101	0.00
43 C	1,4-dioxane	5.000	5.065	-1.3	87	0.00
44 C	trichloroethene	5.000	5.363	-7.3	89	0.00
45 C	2,2,4-trimethylpentane	5.000	5.071	-1.4	92	0.00
46	heptane	5.000	5.048	-1.0	85	0.00
47 C	cis-1,3-dichloropropene	5.000	4.625	7.5	74	0.00
48 C	4-methyl-2-pentanone	5.000	4.901	2.0	82	0.00
49	trans-1,3-dichloropropene	5.000	4.693	6.1	74	0.00
50 C	1,1,2-trichloroethane	5.000	5.406	-8.1	90	0.00
51 I	chlorobenzene-D5	10.000	10.000	0.0	90	0.00
52 C	toluene	5.000	4.726	5.5	85	0.00
54	2-hexanone	5.000	4.538	9.2	78	0.00
55	dibromochloromethane	5.000	6.398	-28.0	109	0.00
56 C	1,2-dibromoethane	5.000	5.119	-2.4	87	0.00
57 C	tetrachloroethene	5.000	4.843	3.1	88	0.00
58	1,1,1,2-tetrachloroethane	5.000	5.397	-7.9	97	0.00
59 C	chlorobenzene	5.000	4.924	1.5	86	0.00
60 C	ethylbenzene	5.000	4.905	1.9	85	0.00
61 C	m+p-xylene	10.000	10.276	-2.8	90	0.00
62 C	bromoform	5.000	6.697	-33.9#	110	0.00
63 C	styrene	5.000	4.865	2.7	81	0.00
64 C	1,1,2,2-tetrachloroethane	5.000	5.301	-6.0	92	0.00
65 C	o-xylene	5.000	5.187	-3.7	91	0.00
66	1,2,3-Trichloropropane	5.000	4.687	6.3	87	0.00
68 C	isopropylbenzene	5.000	4.836	3.3	90	0.00
69	Bromobenzene	5.000	4.989	0.2	90	0.00
70	4-ethyl toluene	5.000	5.180	-3.6	89	0.00
71	1,3,5-trimethylbenzene	5.000	5.072	-1.4	87	0.00
72	tert-butylbenzene	5.000	4.918	1.6	92	0.00
73	1,2,4-trimethylbenzene	5.000	5.049	-1.0	85	0.00
74 C	Benzyl Chloride	5.000	4.646	7.1	81	0.00
75	1,3-dichlorobenzene	5.000	5.647	-12.9	94	0.00
76 C	1,4-dichlorobenzene	5.000	5.729	-14.6	94	0.00
77	sec-butylbenzene	5.000	4.679	6.4	88	0.00
78	p-isopropyltoluene	5.000	4.490	10.2	84	0.00
79	1,2-dichlorobenzene	5.000	5.326	-6.5	93	0.00

Evaluate Continuing Calibration Report

Data Path : O:\Forensics\Data\Airlab17\2024\02\0215SIM\
 Data File : r1738650_Ev2.D
 Acq On : 15 Feb 2024 4:05 PM
 Operator : AIRLAB17:JMB
 Sample : WG1885733-3,3,250,250
 Misc : WG1885733,ICAL20745
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 15 16:09:08 2024
 Quant Method : O:\Forensics\Data\Airlab17\2024\02\0215SIM\TSIM17_240107.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Mon Jan 08 15:36:14 2024
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
 Max. RRF Dev : 30% Max. Rel. Area : 140%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
80	n-butylbenzene	5.000	4.829	3.4	91	0.00
81	1,2-dibromo-3-chloropropane	5.000	5.162	-3.2	90	0.00
82 C	1,2,4-trichlorobenzene	5.000	4.312	13.8	72	0.00
83	naphthalene	5.000	4.048	19.0	80	0.02
84	1,2,3-trichlorobenzene	5.000	4.534	9.3	90	0.02
85 C	hexachlorobutadiene	5.000	4.979	0.4	87	0.02

* Evaluation of CC level amount vs concentration.
 (#) = Out of Range SPCC's out = 0 CCC's out = 1

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab17\2024\02\0215SIM\
 Data File : r1738650_Ev2.D
 Acq On : 15 Feb 2024 4:05 PM
 Operator : AIRLAB17:JMB
 Sample : WG1885733-3,3,250,250
 Misc : WG1885733,ICAL20745
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 15 16:09:08 2024
 Quant Method : O:\Forensics\Data\Airlab17\2024\02\0215SIM\TSIM17_240107.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Mon Jan 08 15:36:14 2024
 Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab17\2024\02\0215SIM\r1738650_Ev2.D
 Sub List : Default-LCS-AP2 - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	8.833	49	214398	10.000	ppbV	0.00
Standard Area =	214398		Recovery =	100.00%		
33) 1,4-difluorobenzene	11.070	114	619357	10.000	ppbV	0.00
Standard Area =	619357		Recovery =	100.00%		
51) chlorobenzene-D5	15.825	54	82380	10.000	ppbV	0.00
Standard Area =	82380		Recovery =	100.00%		

System Monitoring Compounds

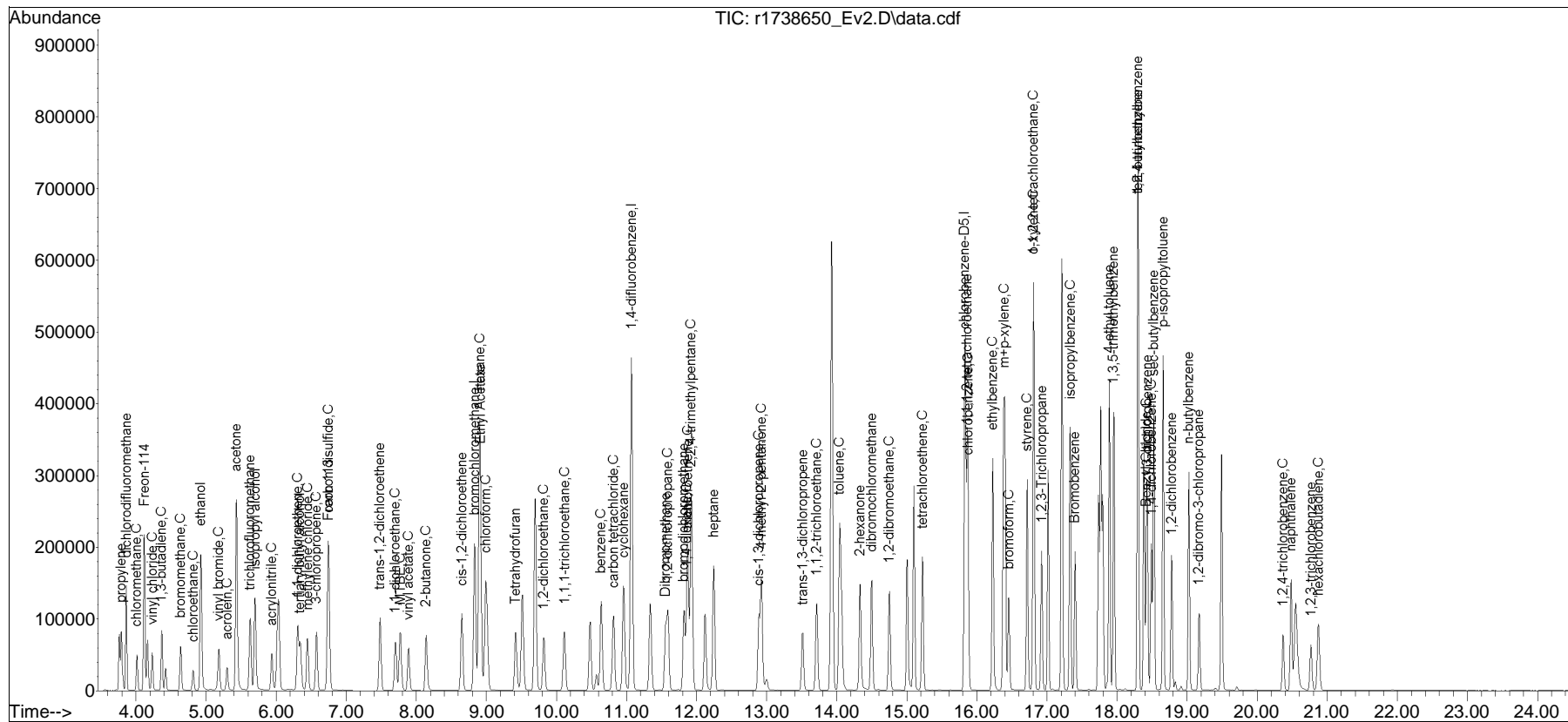
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
6) vinyl chloride	4.234	62	59113	5.053	ppbV	100
17) 1,1-dichloroethene	6.306	61	85059	5.682	ppbV	97
28) cis-1,2-dichloroethene	8.650	61	75621	5.130	ppbV	99
36) 1,1,1-trichloroethane	10.117	97	95914	5.508	ppbV	99
38) carbon tetrachloride	10.817	117	102396	5.958	ppbV	96
44) trichloroethene	11.877	130	96812	5.363	ppbV	95
57) tetrachloroethene	15.225	166	93705	4.843	ppbV	96

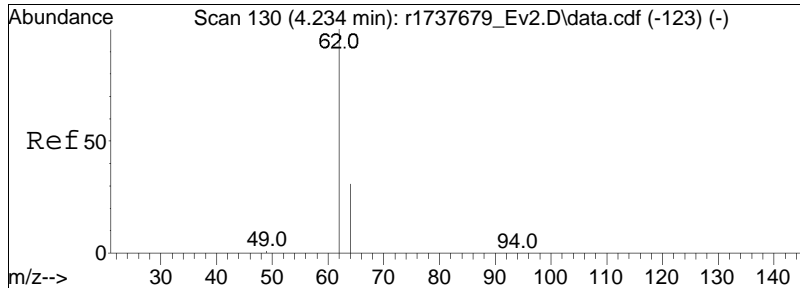
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sub List : Default-LCS-AP2 - All compounds listed5SIM\r1738650_Ev2.D

Data Path : O:\Forensics\Data\Airlab17\2024\02\0215SIM\
Data File : r1738650_Ev2.D
Acq On : 15 Feb 2024 4:05 PM
Operator : AIRLAB17:JMB
Sample : WG1885733-3,3,250,250
Misc : WG1885733,ICAL20745
ALS Vial : 0 Sample Multiplier: 1

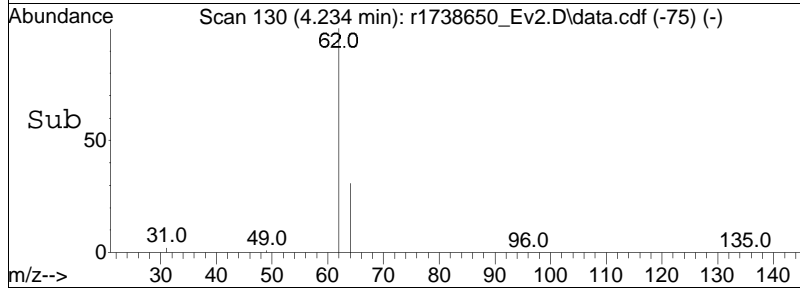
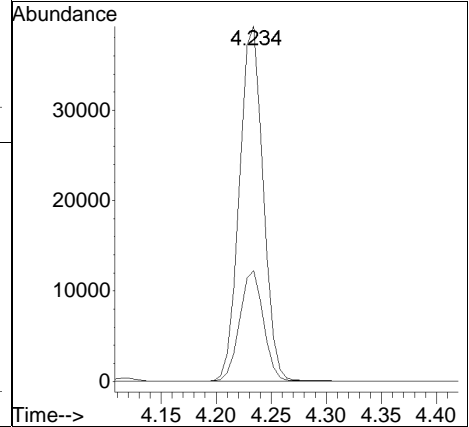
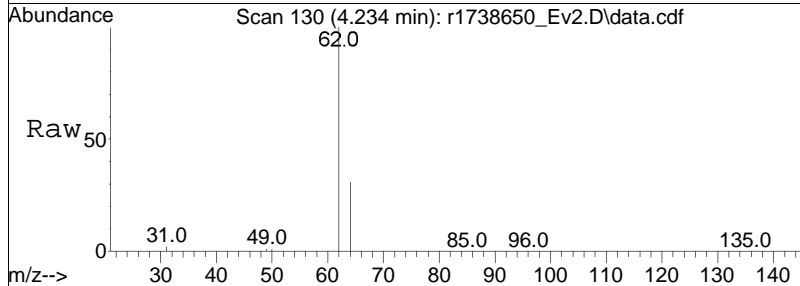
Quant Time: Feb 15 16:09:08 2024
Quant Method : O:\Forensics\Data\Airlab17\2024\02\0215SIM\TSM17_240107.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Mon Jan 08 15:36:14 2024
Response via : Initial Calibration

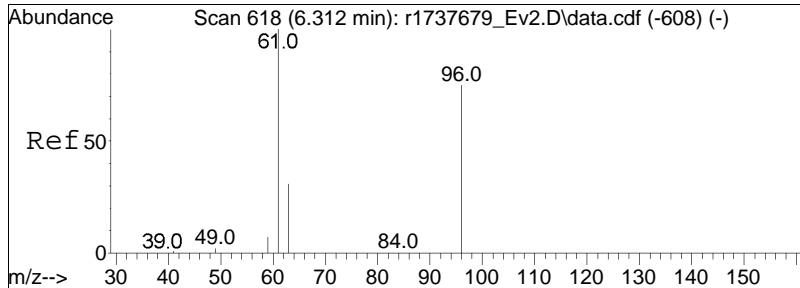




#6
 vinyl chloride
 Concen: 5.05 ppbV
 RT: 4.234 min Scan# 130
 Delta R.T. 0.000 min
 Lab File: r1738650_Ev2.D
 Acq: 15 Feb 2024 4:05 PM

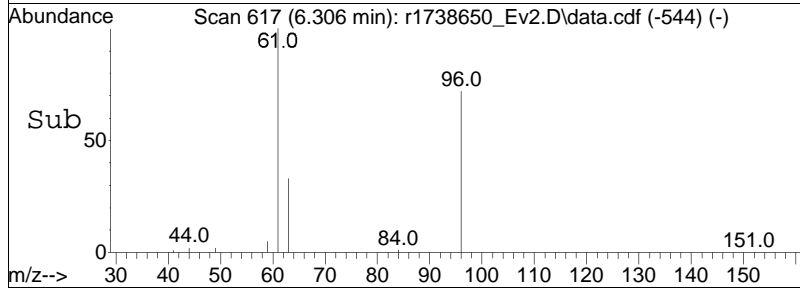
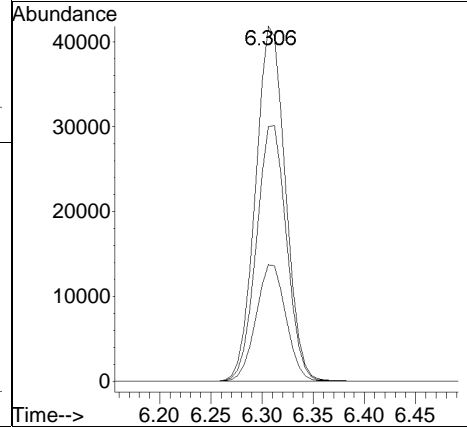
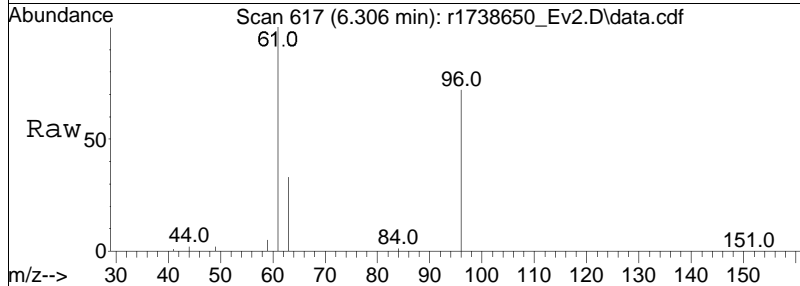
Tgt Ion	Resp	Lower	Upper
62	100		
64	31.2	24.8	37.2

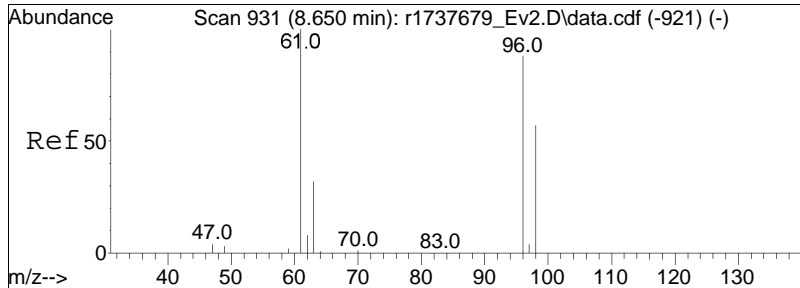




#17
 1,1-dichloroethene
 Concen: 5.68 ppbV
 RT: 6.306 min Scan# 617
 Delta R.T. -0.006 min
 Lab File: r1738650_Ev2.D
 Acq: 15 Feb 2024 4:05 PM

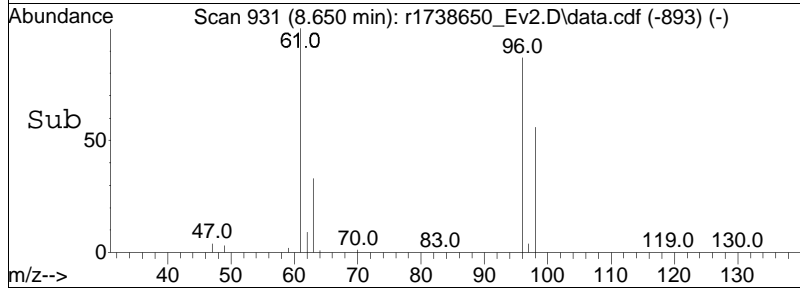
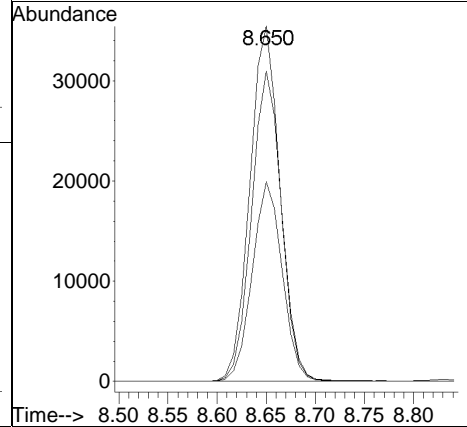
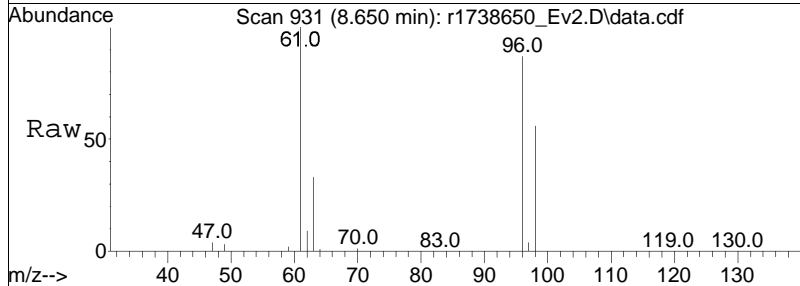
Tgt Ion:	Resp:		
Ion Ratio	Lower	Upper	
61	100		
96	71.7	59.8	89.6
63	32.8	25.1	37.7

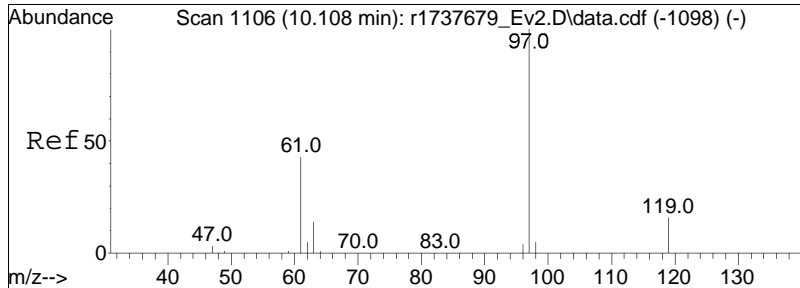




#28
 cis-1,2-dichloroethene
 Concen: 5.13 ppbV
 RT: 8.650 min Scan# 931
 Delta R.T. 0.000 min
 Lab File: r1738650_Ev2.D
 Acq: 15 Feb 2024 4:05 PM

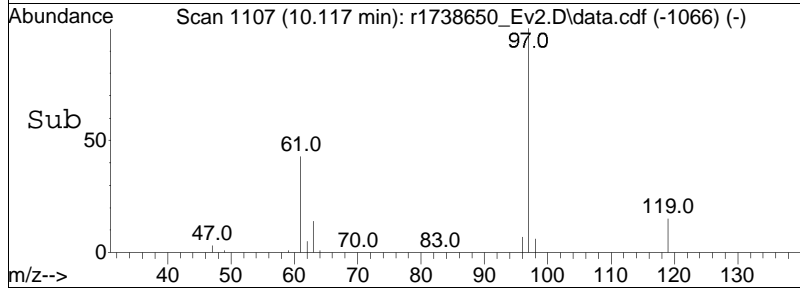
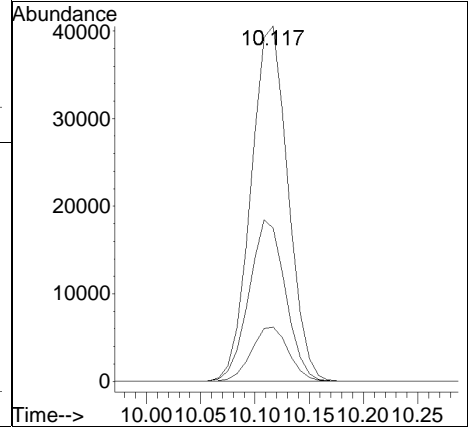
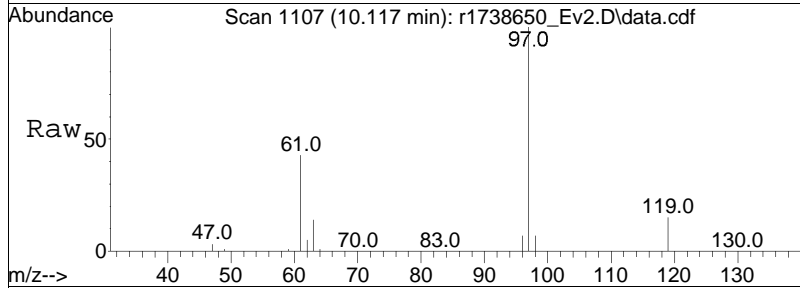
Tgt Ion	Resp	Lower	Upper
61	100		
96	87.3	70.8	106.2
98	56.2	45.8	68.8

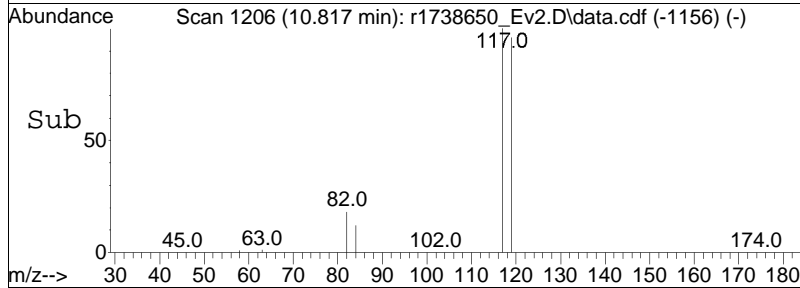
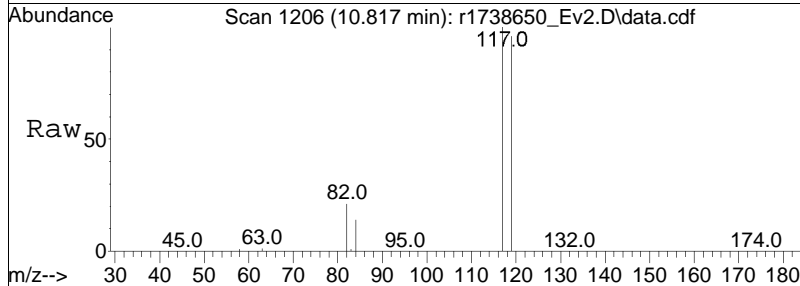
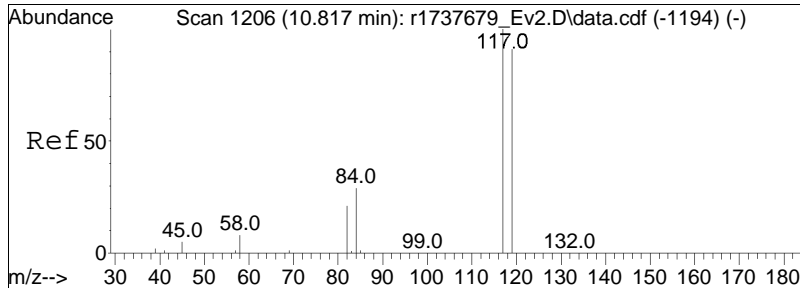




#36
 1,1,1-trichloroethane
 Concen: 5.51 ppbV
 RT: 10.117 min Scan# 1107
 Delta R.T. 0.008 min
 Lab File: r1738650_Ev2.D
 Acq: 15 Feb 2024 4:05 PM

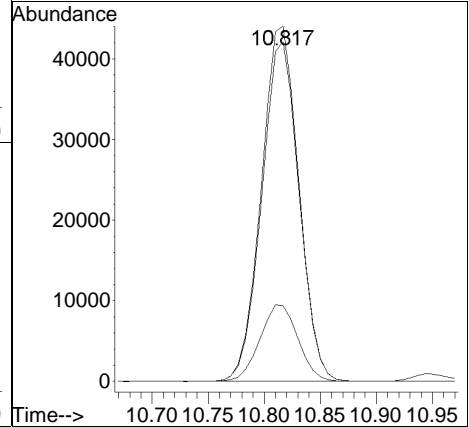
Tgt Ion	Resp	Lower	Upper
97	100		
61	43.1	34.2	51.2
119	15.3	12.9	19.3

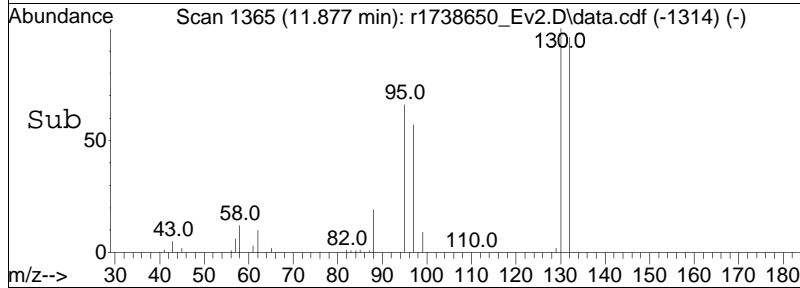
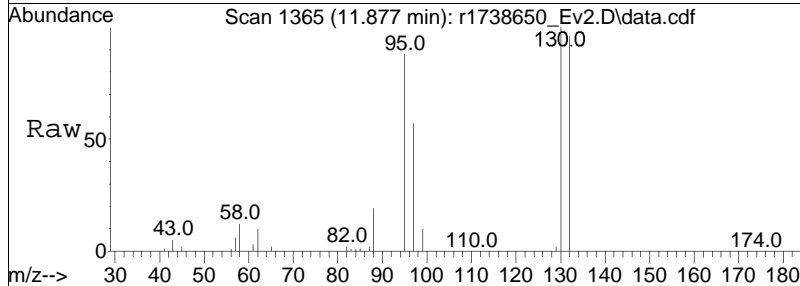
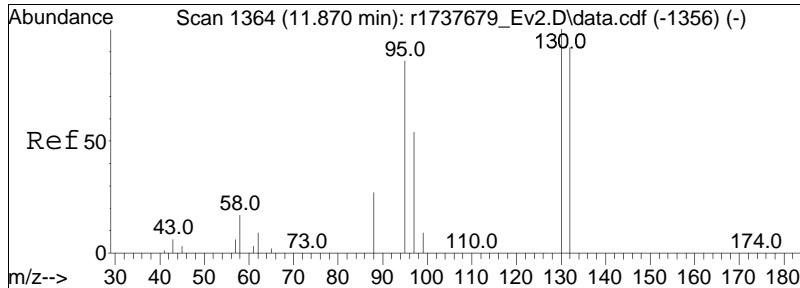




#38
 carbon tetrachloride
 Concen: 5.96 ppbV
 RT: 10.817 min Scan# 1206
 Delta R.T. 0.000 min
 Lab File: r1738650_Ev2.D
 Acq: 15 Feb 2024 4:05 PM

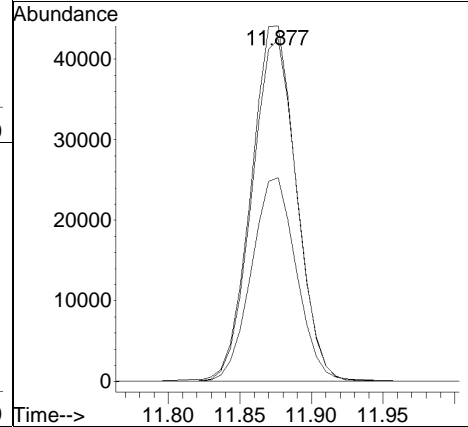
Tgt Ion	Ratio	Lower	Upper
117	100		
119	95.6	73.0	109.4
82	21.3	16.8	25.2

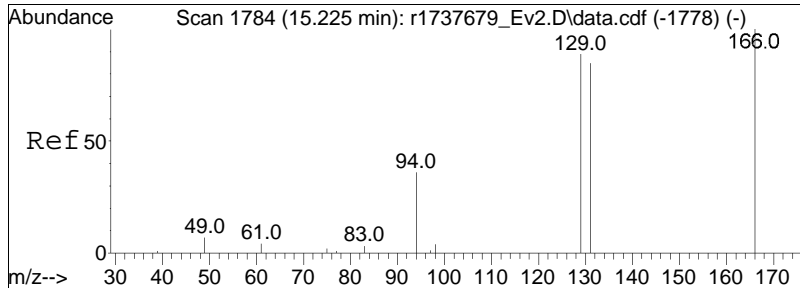




#44
 trichloroethene
 Concen: 5.36 ppbV
 RT: 11.877 min Scan# 1365
 Delta R.T. 0.007 min
 Lab File: r1738650_Ev2.D
 Acq: 15 Feb 2024 4:05 PM

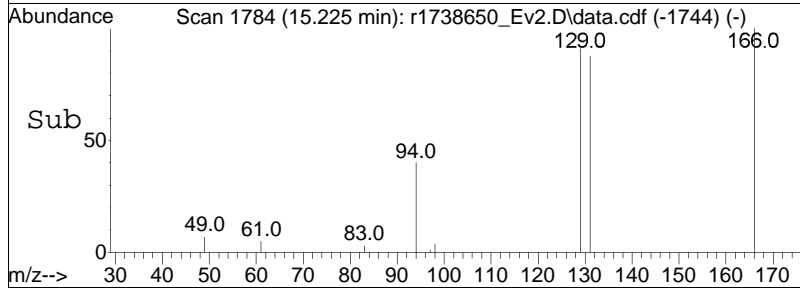
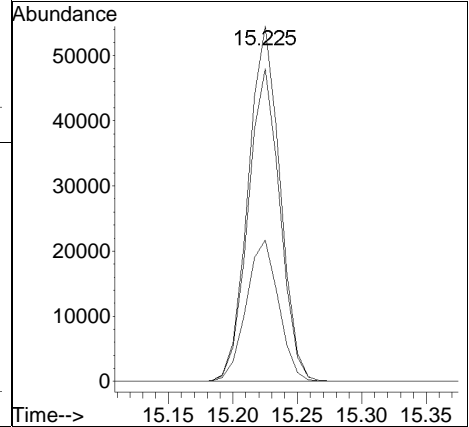
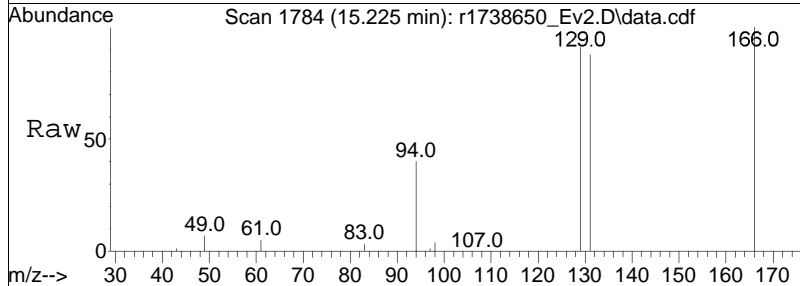
Tgt Ion	Resp	Lower	Upper
130	100		
132	96.3	73.5	110.3
97	57.3	43.4	65.0





#57
 tetrachloroethene
 Concen: 4.84 ppbV
 RT: 15.225 min Scan# 1784
 Delta R.T. 0.000 min
 Lab File: r1738650_Ev2.D
 Acq: 15 Feb 2024 4:05 PM

Tgt Ion	Ratio	Lower	Upper
166	100		
131	88.1	68.3	102.5
94	39.8	28.9	43.3



Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab17\2024\02\0215SIM\
 Data File : r1738658_Ev2.D
 Acq On : 15 Feb 2024 11:36 PM
 Operator : AIRLAB17:JMB
 Sample : WG1885733-5,3,250,250
 Misc : WG1885733,ICAL20745
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 16 08:14:20 2024
 Quant Method : O:\Forensics\Data\Airlab17\2024\02\0215SIM\TSIM17_240107.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Mon Jan 08 15:36:14 2024
 Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab17\2024\02\0215SIM\r1738650_Ev2.D
 Sub List : 7-NY-SIM - .

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	8.850	49	211441	10.000	ppbV	0.02
Standard Area =	214398		Recovery =		98.62%	
33) 1,4-difluorobenzene	11.090	114	590590	10.000	ppbV	0.02
Standard Area =	619357		Recovery =		95.36%	
51) chlorobenzene-D5	15.850	54	79575	10.000	ppbV	0.03
Standard Area =	82380		Recovery =		96.60%	

System Monitoring Compounds

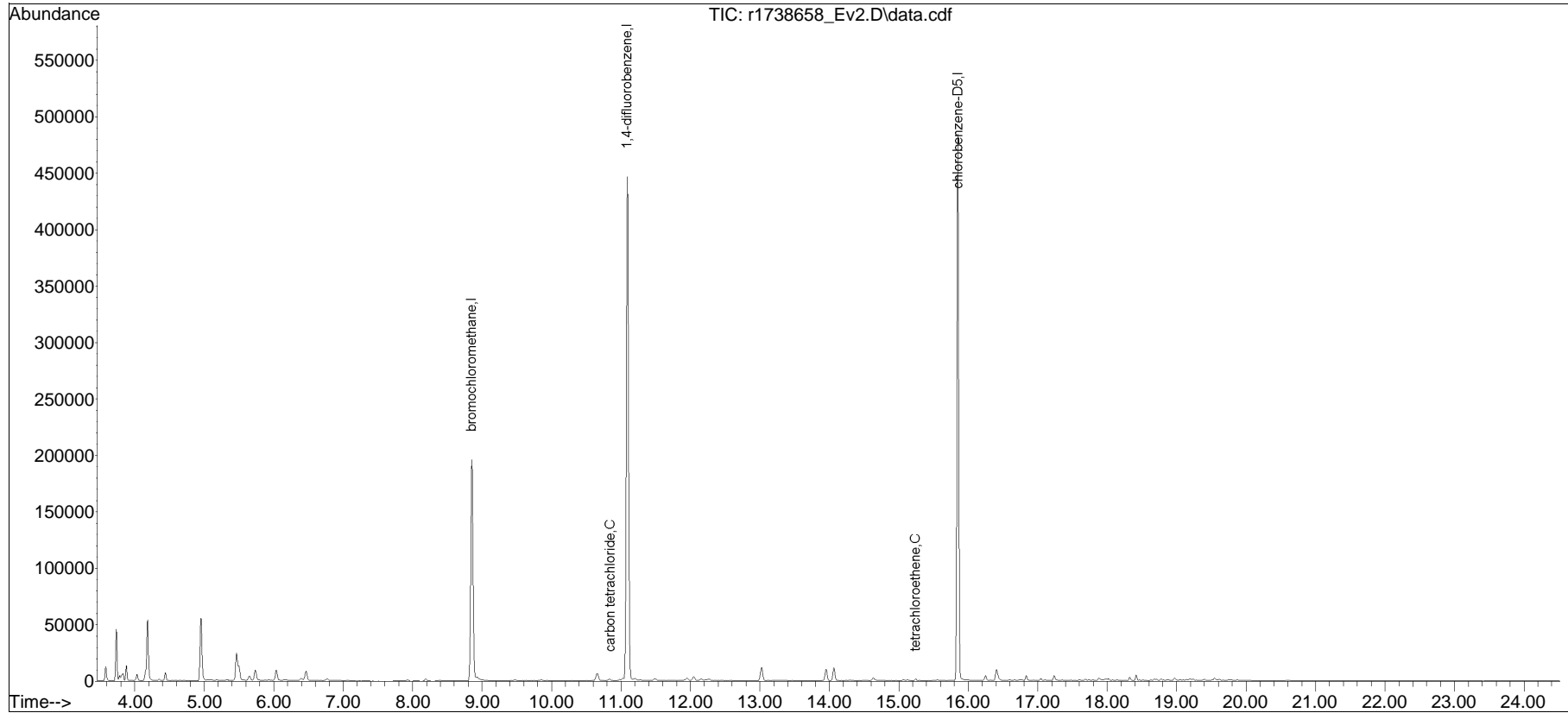
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
6) vinyl chloride	0.000		0		N.D.	
17) 1,1-dichloroethene	0.000		0		N.D.	
28) cis-1,2-dichloroethene	0.000		0		N.D.	
36) 1,1,1-trichloroethane	0.000		0		N.D.	
38) carbon tetrachloride	10.843	117	1365	0.083	ppbV	98
44) trichloroethene	11.883		0		N.D.	
57) tetrachloroethene	15.242	166	790	0.042	ppbV #	87

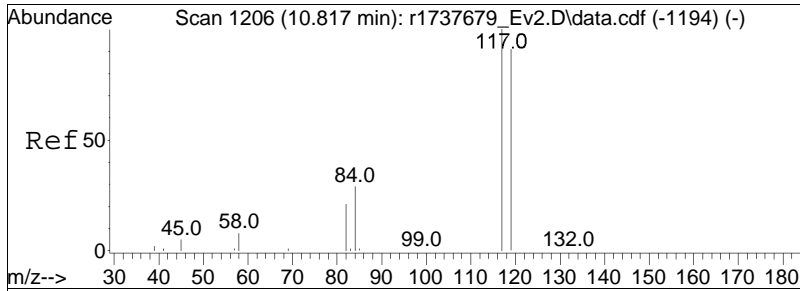
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sub List : 7-NY-SIM - .\Data\Airlab17\2024\02\0215SIM\r1738650_Ev2.D

Data Path : O:\Forensics\Data\Airlab17\2024\02\0215SIM\
Data File : r1738658_Ev2.D
Acq On : 15 Feb 2024 11:36 PM
Operator : AIRLAB17:JMB
Sample : WG1885733-5,3,250,250
Misc : WG1885733,ICAL20745
ALS Vial : 0 Sample Multiplier: 1

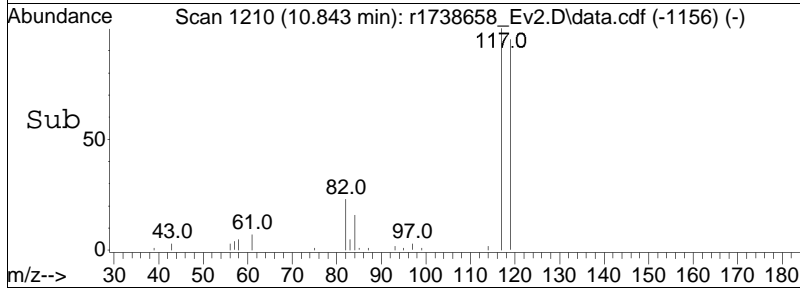
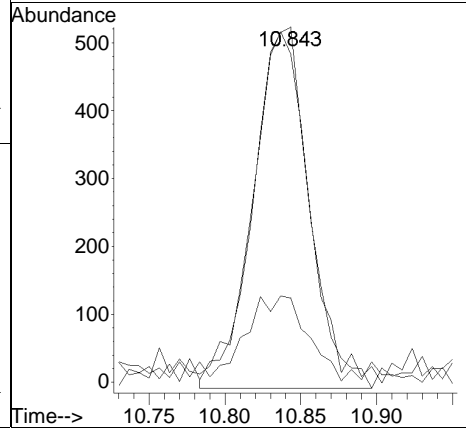
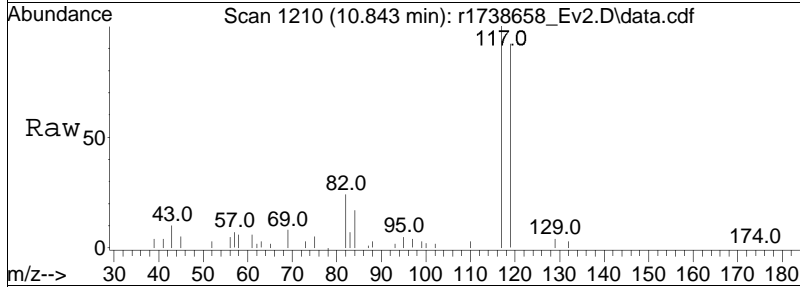
Quant Time: Feb 16 08:14:20 2024
Quant Method : O:\Forensics\Data\Airlab17\2024\02\0215SIM\TSIM17_240107.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Mon Jan 08 15:36:14 2024
Response via : Initial Calibration

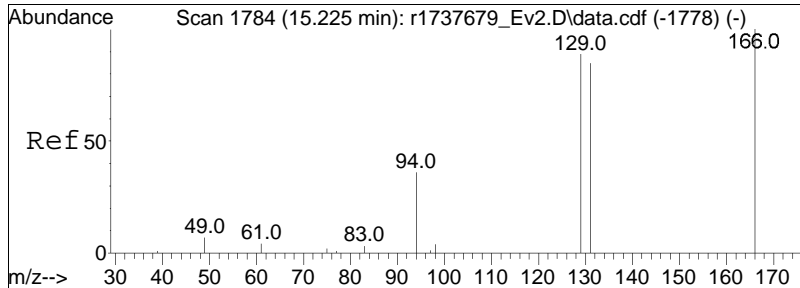




#38
 carbon tetrachloride
 Concen: 0.08 ppbV
 RT: 10.843 min Scan# 1210
 Delta R.T. 0.027 min
 Lab File: r1738658_Ev2.D
 Acq: 15 Feb 2024 11:36 PM

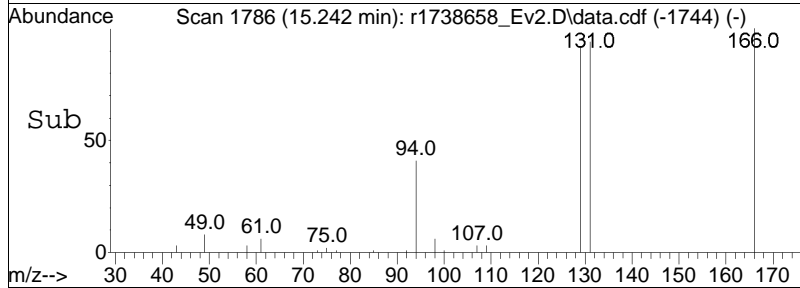
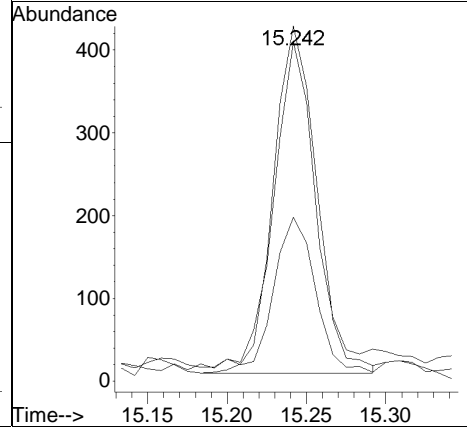
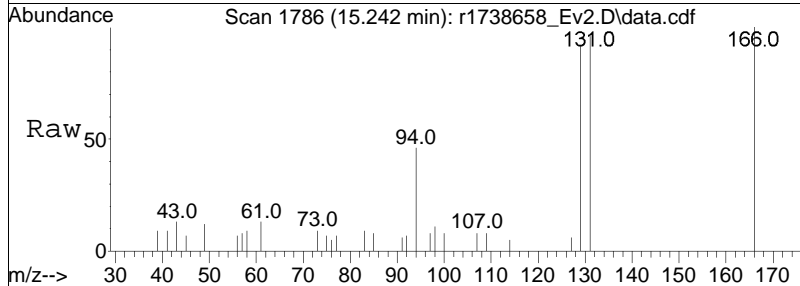
Tgt Ion	Resp	Lower	Upper
117	100		
119	92.4	73.0	109.4
82	23.7	16.8	25.2





#57
 tetrachloroethene
 Concen: 0.04 ppbV
 RT: 15.242 min Scan# 1786
 Delta R.T. 0.017 min
 Lab File: r1738658_Ev2.D
 Acq: 15 Feb 2024 11:36 PM

Tgt Ion	Ratio	Lower	Upper
166	100		
131	95.6	68.3	102.5
94	46.2	28.9	43.3#



Manual Integration Report

Data Path : O:\Forensics\Data\Airlab17QMethod : TSIM17_240107.M
Data File : r1738658_Ev2.D Operator : AIRLAB17:JMB
Date Inj'd : 2/15/2020 0:1: 6 Instrument :
Sample : WG1885733-5,3,250,250 Quant Date : 2/16/2024 8:14 am

There are no manual integrations or false positives in this file.

Calculation of Volatile Organic Compounds in Air

The instrument will calculate the concentration (ppbv). If the sample is diluted (DF), the result is multiplied by the DF to generate the final result.

$$\text{Result, ppbv} = C_s \times \text{DF}$$

Where:

C_s = Concentration of sample (ppbv)

DF = Dilution Factor

Calculation of Instrument Dilution Factor

For dilutions, smaller sample volumes (< 250mL) are analyzed. The smallest volume that can be analyzed with accuracy is 10 mL.

Samples that arrive at the laboratory with pressures below -15 inches Hg must be pressurized with zero air to greater than -15 inches Hg. This pressurization results in a dilution factor.

Calculation of Dilution Factor

$$\text{DF} = V_{cf} / V_{ci}$$

Where:

V_{ci} = volume of air in canister prior to pressurization, L

P =

Conversion of ppbv to $\mu\text{g}/\text{m}^3$

$$\mu\text{g}/\text{m}^3 = (\text{ppbv}) * \text{MW} / 24.47$$

Where:

24.47 = molar gas constant (g/g-mole)

MW = molecular weight of the compound of interest

Dilution Factor for Pressurization of Subatmospheric Samples: Three Steps

Step 1: Calculate the volume in the canister prior to pressurization (Assume a 2.7 liter canister is used).

Dilution Factor for Pressurization of Subatmospheric Samples: Three Steps

Step 1: Calculate the volume in the canister prior to pressurization (Assume a 2.7 liter canister is used).

$$V_{ci} = 2.7 * PI/14.696$$

Step 2: Calculate the volume in the canister after pressurization.

$$V_{cf} = 2.7 * PF/14.696$$

Step 3: Calculate the dilution factor.

$$DF = V_{cf} / V_{ci}$$

Where:

V_{ci} = volume of air in canister prior to pressurization, L

PI = pressure reading of canister prior to pressurization (psia)

V_{cf} = volume of air in canister after pressurization, L

PF = pressure reading of canister after pressurization (psia)

DF = dilution factor

14.696 = atmospheric pressure (psia)

ALPHA ANALYTICAL LABORATORIES, INC.

Alpha WORK GROUP REPORT (wk02)

Feb 16 2024, 02:15 pm

Work Group: WG1885733 for Department: 3 GC/MS

Created: 15-FEB-24 Due: Operator: JMB

Sample	Client ID	C Product	Matrix	Stat	UA	HOLD	DUE	PR	Location
L2405687-01	PIN AIR-009	S TO15-SIM	AIR	DONE	U	0223	0215	S0	Can-6
L2405687-02	PIN AIR-010	S TO15-SIM	AIR	DONE	U	0229	0215	S0	Can-6
L2407495-05	SG-1	S TO15-SIM	SOIL_VAPOR	DONE	U	0310	0216	S0	Can-2.7
L2407504-11	DUP-02082024	S TO15-SIM	AIR	DONE	U	0309	0216	S0	Can-2.7
L2407504-13	MP-8R-IA	S TO15-SIM	AIR	DONE	U	0309	0216	S0	Can-2.7
L2407531-02	SVP-02	S TO15-SIM	SOIL_VAPOR	DONE	U	0309	0216	3E	Can-2.7
L2407594-01	SV-1	S TO15-SIM	SOIL_VAPOR	DONE	U	0310	0216	3E	Can-2.7
L2407594-02	SV-2	S TO15-SIM	SOIL_VAPOR	DONE	U	0310	0216	3E	Can-2.7
L2407594-03	SV-3	S TO15-SIM	SOIL_VAPOR	DONE	U	0310	0216	3E	Can-2.7
L2407594-04	SV-4	S TO15-SIM	SOIL_VAPOR	DONE	U	0310	0216	3E	Can-2.7
L2407645-01	TRC-IA-01	S TO15-SIM	AIR	DONE	U	0310	0216	S0	Can-6
L2407645-02	TRC-IA-02	S TO15-SIM	AIR	DONE	U	0310	0216	S0	Can-6
L2407645-03	TRC-IA-03	S TO15-SIM	AIR	DONE	U	0310	0216	S0	Can-6
L2407645-04	TRC-AA-01	S TO15-SIM	AIR	DONE	U	0310	0216	S0	Can-6
WG1885733-1	MS BFB Tune Standard	S TO15-SIM	AIR	DONE	U				
WG1885733-1	MS BFB Tune Standard	S TO15-SIM	SOIL_VAPOR	DONE	U				
WG1885733-2	Continuing Calibrati	S TO15-SIM	AIR	DONE	U				
WG1885733-2	Continuing Calibrati	S TO15-SIM	SOIL_VAPOR	DONE	U				
WG1885733-3	Laboratory Control S	S TO15-SIM	AIR	DONE	U				
WG1885733-3	Laboratory Control S	S TO15-SIM	SOIL_VAPOR	DONE	U				
WG1885733-4	Laboratory Method Bl	S TO15-SIM	AIR	DONE	U				
WG1885733-4	Laboratory Method Bl	S TO15-SIM	SOIL_VAPOR	DONE	U				
WG1885733-5	Duplicate Sample	S TO15-SIM	AIR	DONE	U				
WG1885733-5	Duplicate Sample	S TO15-SIM	SOIL_VAPOR	DONE	U				
Comments:									
WG1885733-5	L2407645-03								

Alpha Analytical Air Lab Instrument Run Log

Instrument ID: Airlab 17

Internal Standard/Surrogate IDs: SS22-(

Date: 01/07/24

Internal Standard/Surrogate Volume: _____

Analyst Initials: BJB

Sequence File Name: _____

AS Position #	Sample ID	Acquisition Method	Data File ID	Standard ID or Batch ID #, ICAL Ref #	Comment (s)
1	BA17110401	C:\GCMSsolution\Methods\TO15_SFS.qgm	R1737670.qgd	250 mL	BLANK
1	BA17110401	C:\GCMSsolution\Methods\TO15_SFS.qgm	R1737671.qgd	250 mL	BLANK
1	TA17110401	C:\GCMSsolution\Methods\TO15_SFS.qgm	R1737672.qgd	250 mL	TUNE
9	ITO15-SIMSTD0.02	C:\GCMSsolution\Methods\TO15_SFS.qgm	R1737673.qgd	50 mL SS23-019D	SIM ONLY
9	ITO15-SIMSTD0.05	C:\GCMSsolution\Methods\TO15_SFS.qgm	R1737674.qgd	125 mL SS23-019D	SIM ONLY
9	ITO15-SIMSTD0.1	C:\GCMSsolution\Methods\TO15_SFS.qgm	R1737675.qgd	250 mL SS23-019D	SIM ONLY
10	ITO15-SIMSTD0.2	C:\GCMSsolution\Methods\TO15_SFS.qgm	R1737676.qgd	50 mL SS23-019C	
10	ITO15-SIMSTD0.5	C:\GCMSsolution\Methods\TO15_SFS.qgm	R1737677.qgd	125 mL SS23-019C	
10	ITO15-SIMSTD1.0	C:\GCMSsolution\Methods\TO15_SFS.qgm	R1737678.qgd	250 mL SS23-019C	
11	ITO15-SIMSTD5.0	C:\GCMSsolution\Methods\TO15_SFS.qgm	R1737679.qgd	125 mL SS23-019B	
11	ITO15-SIMSTD10.0	C:\GCMSsolution\Methods\TO15_SFS.qgm	R1737680.qgd	250 mL SS23-019B	
12	ITO15-SIMSTD20	C:\GCMSsolution\Methods\TO15_SFS.qgm	R1737681.qgd	50 mL SS23-019A	
12	ITO15-SIMSTD50	C:\GCMSsolution\Methods\TO15_SFS.qgm	R1737682.qgd	125 mL SS23-019A	
12	ITO15-LLSTD100	C:\GCMSsolution\Methods\TO15_SFS.qgm	R1737683.qgd	250 mL SS23-019A	LL ONLY
1	BA17110401	C:\GCMSsolution\Methods\TO15_SFS.qgm	R1737684.qgd	250 mL	
1	BA17110402	C:\GCMSsolution\Methods\TO15_SFS.qgm	R1737685.qgd	250 mL	

Alpha Analytical Air Lab Instrument Run Log

028/ SS21-026

100 ml

240107.S

Product/ Sublist	Check Pass ?
	NA
	NA
DEFAULT	NA
DEFAULT	NA
DEFAULT	NA
DEFAULT	NA
DEFAULT	NA
DEFAULT	NA
DEFAULT	NA
DEFAULT	NA
DEFAULT	NA
DEFAULT	NA
DEFAULT	NA
DEFAULT	NA
DEFAULT	NA
	NA
USE AS TUNE FOR 1/8 SEQ	NA

Alpha Analytical Air Lab Instrument Run Log

Instrument ID: AirLab 17
 Date: 02/15/24
 Analyst Initials: JMB

Internal Standard/Surrogate IDs: SS22-028/ SS21-026
 Internal Standard/Surrogate Volume: 100 ml
 Sequence File Name: 240215.S

AS Position #	Sample ID	Acquisition Method	Data File ID	Standard ID or Batch ID #, ICAL Ref #	Comment (s)	Product/ Sublist
1	TA17021501	TO15_SFS.qgm	R1738647.qgd	250 mL	TUNE	
2	CA17021501	TO15_SFS.qgm	R1738648.qgd	250 mL	LL CC	
3	CTO15-LLSTD10.0	TO15_SFS.qgm	R1738649.qgd	250 mL SS23-017D	LL LCS	REPORT HITS OF CT,BDCM,BDCE BY SIM
3	CTO15-SIMSTD5.0	TO15_SFS.qgm	R1738650.qgd	125 mL SS23-017D	SIM LCS	BF HIGH
1	BA17021501	TO15_SFS.qgm	R1738651.qgd	250 mL	LL BLANK	
1	BA17021502	TO15_SFS.qgm	R1738652.qgd	250 mL	SIM BLANK	
2	L2407645-04,3,250,250	TO15_SFS.qgm	R1738653.qgd	WG1885731,ICAL20743		NY-7SIM
3	L2407645-01,3,250,250	TO15_SFS.qgm	R1738654.qgd	WG1885731,ICAL20743		NY-7SIM
4	L2407645-02,3,250,250	TO15_SFS.qgm	R1738655.qgd	WG1885731,ICAL20743		NY-7SIM
5	L2407504-13,3,250,250	TO15_SFS.qgm	R1738656.qgd	WG1885731,ICAL20743		NY-7SIM
6	L2407645-03,3,250,250	TO15_SFS.qgm	R1738657.qgd	WG1885731,ICAL20743		NY-7SIM
6	L2407645-03DUP,3,250,250	TO15_SFS.qgm	R1738658.qgd	WG1885731,ICAL20743	LL/SIM DUP	NY-7SIM
7	L2405687-02,3,250,250	TO15_SFS.qgm	R1738659.qgd	WG1885733,ICAL20745		STD+NAPH BY SIM
8	L2405687-01,3,250,250	TO15_SFS.qgm	R1738660.qgd	WG1885733,ICAL20745		STD+NAPH BY SIM
9	L2407504-11,3,250,250	TO15_SFS.qgm	R1738661.qgd	WG1885731,ICAL20743		NY-7SIM
10	L2407531-02,3,250,250	TO15_SFS.qgm	R1738662.qgd	WG1885731,ICAL20743	bdcM hit report by sim	PA
11	L2407504-12,3,250,250	TO15_SFS.qgm	R1738663.qgd	WG1885731,ICAL20743		NY
12	L2407594-01,3,250,250	TO15_SFS.qgm	R1738664.qgd	WG1885733,ICAL20745		PA BY SIM

Alpha Analytical Air Lab Instrument Run Log

Check Pass ?
NA
NA
NA
NA
NA
NA
NA
Y
Y
Y
Y
Y
Y
Y
Y
Y
Y
Y
Y
Y
Y
Y

Alpha Analytical Air Lab Instrument Run Log

13	L2407594-02,3,250,250	TO15_SFS.qgm	R1738665.qgd	WG1885733,ICAL20745		PA BY SIM
14	L2407594-03,3,250,250	TO15_SFS.qgm	R1738666.qgd	WG1885733,ICAL20745		PA BY SIM
15	L2407594-04,3,250,250	TO15_SFS.qgm	R1738667.qgd	WG1885733,ICAL20745		PA BY SIM
16	L2407495-05,3,250,250	TO15_SFS.qgm	R1738668.qgd	WG1885731,ICAL20743	bdcn hit report by sim	NY
1	L2407495-06,3,250,250	TO15_SFS.qgm	R1738669.qgd	WG1885731,ICAL20743		NY
2	L2407495-07D,3,6.03,250	TO15_SFS.qgm	R1738670.qgd	WG1885731,ICAL20743	Acetone 2 but THF overcal	NY
3	L2407495-08,3,250,250	TO15_SFS.qgm	R1738671.qgd	WG1885731,ICAL20743		NY
4	L2407531-01D,3,112.68,250	TO15_SFS.qgm	R1738672.qgd	WG1885731,ICAL20743		PA
5	L2405586-01D,3,2.67,250	TO15_SFS.qgm	R1738673.qgd	WG1885731,ICAL20743	T	PA_UST
2	L2407495-07D,3,0.36,250	TO15_SFS.qgm	R1738674.qgd	WG1885731,ICAL20743		Acetone 2 but THF

Column ID: Rtx-1 0.25 mm ID

Date(s) of Initial Calibration: Refer to Initial Calibration Summary Form 6

Date Acquired: see Instrument Performance Check Summary and/or quantitation report.

Sample ID information: L1301234-01,3,250,250 { Lab sample ID, dept #, actual volume analyzed (mL), nominal volume analyzed

Dilution Factor: See Form 1 report, or divide nominal volume by actual volume analyzed

Alpha Analytical Air Lab Instrument Run Log

Y
Y
Y
Y
Y
Y
Y
Y
Y
Y

Appendix C – Environmental Laboratory Approval Program Certification

NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER



Expires 12:01 AM April 01, 2024
Issued April 01, 2023

CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE

Issued in accordance with and pursuant to section 502 Public Health Law of New York State

MR. JOHN TRIMBLE
ALPHA ANALYTICAL
320 FORBES BOULEVARD
MANSFIELD, MA 02048

NY Lab Id No: 11627

*is hereby APPROVED as an Environmental Laboratory in conformance with the
National Environmental Laboratory Accreditation Conference Standards (2016) for the category
ENVIRONMENTAL ANALYSES AIR AND EMISSIONS
All approved analytes are listed below:*

Acrylates

Acetonitrile	EPA TO-15
Acrylonitrile	EPA TO-15
Methyl methacrylate	EPA TO-15

Chlorinated Hydrocarbons

1,2,4-Trichlorobenzene	EPA TO-15
Hexachlorobutadiene	EPA TO-15

Polychlorinated Biphenyls

PCBs and Aroclors	EPA TO-10A EPA TO-4A
-------------------	-------------------------

Polynuclear Aromatics

Acenaphthene	EPA TO-13A
Acenaphthylene	EPA TO-13A
Anthracene	EPA TO-13A
Benzo(a)anthracene	EPA TO-13A
Benzo(a)pyrene	EPA TO-13A
Benzo(b)fluoranthene	EPA TO-13A
Benzo(g,h,i)perylene	EPA TO-13A
Benzo(k)fluoranthene	EPA TO-13A
Chrysene	EPA TO-13A
Dibenzo(a,h)anthracene	EPA TO-13A
Fluoranthene	EPA TO-13A
Fluorene	EPA TO-13A
Indeno(1,2,3-cd)pyrene	EPA TO-13A
Naphthalene	EPA TO-13A EPA TO-15
Phenanthrene	EPA TO-13A

Serial No.: 67090

Property of the New York State Department of Health. Certificates are valid only at the address shown and must be conspicuously posted by the laboratory. Continued accreditation depends on the laboratory's successful ongoing participation in the Program. Consumers may verify a laboratory's accreditation status online at <https://apps.health.ny.gov/pubdoh/applinks/wc/elappublicweb/>, by phone (518) 485-5570 or by email to elap@health.ny.gov.



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Polynuclear Aromatics

Pyrene EPA TO-13A

Purgeable Aromatics

1,2,4-Trimethylbenzene EPA TO-15

1,2-Dichlorobenzene EPA TO-15

1,3,5-Trimethylbenzene EPA TO-15

1,3-Dichlorobenzene EPA TO-15

1,4-Dichlorobenzene EPA TO-15

2-Chlorotoluene EPA TO-15

Benzene EPA TO-15

Chlorobenzene EPA TO-15

Ethyl benzene EPA TO-15

Isopropylbenzene EPA TO-15

m/p-Xylenes EPA TO-15

o-Xylene EPA TO-15

Styrene EPA TO-15

Toluene EPA TO-15

Total Xylenes EPA TO-15

Purgeable Halocarbons

1,1,1-Trichloroethane EPA TO-15

1,1,2,2-Tetrachloroethane EPA TO-15

1,1,2-Trichloro-1,2,2-Trifluoroethane EPA TO-15

1,1,2-Trichloroethane EPA TO-15

1,1-Dichloroethane EPA TO-15

1,1-Dichloroethene EPA TO-15

1,2-Dibromo-3-chloropropane EPA TO-15

1,2-Dibromoethane EPA TO-15

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Purgeable Halocarbons

1,2-Dichloroethane	EPA TO-15
1,2-Dichloropropane	EPA TO-15
3-Chloropropene (Allyl chloride)	EPA TO-15
Bromodichloromethane	EPA TO-15
Bromoform	EPA TO-15
Bromomethane	EPA TO-15
Carbon tetrachloride	EPA TO-15
Chloroethane	EPA TO-15
Chloroform	EPA TO-15
Chloromethane	EPA TO-15
cis-1,2-Dichloroethene	EPA TO-15
cis-1,3-Dichloropropene	EPA TO-15
Dibromochloromethane	EPA TO-15
Dichlorodifluoromethane	EPA TO-15
Methylene chloride	EPA TO-15
Tetrachloroethene	EPA TO-15
trans-1,2-Dichloroethene	EPA TO-15
trans-1,3-Dichloropropene	EPA TO-15
Trichloroethene	EPA TO-15
Trichlorofluoromethane	EPA TO-15
Vinyl bromide	EPA TO-15
Vinyl chloride	EPA TO-15

Volatile Chlorinated Organics

Benzyl chloride	EPA TO-15
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Volatile Organics

1,2-Dichlorotetrafluoroethane	EPA TO-15
-------------------------------	-----------

Serial No.: 67090

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NY Lab Id No: 11627

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ENVIRONMENTAL ANALYSES AIR AND EMISSIONS
All approved analytes are listed below:*

Volatile Organics

1,3-Butadiene	EPA TO-15
1,4-Dioxane	EPA TO-15
2,2,4-Trimethylpentane	EPA TO-15
2-Butanone (Methylethyl ketone)	EPA TO-15
4-Methyl-2-Pentanone	EPA TO-15
Acetaldehyde	EPA TO-15
Acetone	EPA TO-15
Acrolein (Propenal)	EPA TO-15
Carbon Disulfide	EPA TO-15
Cyclohexane	EPA TO-15
Hexane	EPA TO-15
Isopropanol	EPA TO-15
Methanol	EPA TO-15
Methyl tert-butyl ether	EPA TO-15
n-Heptane	EPA TO-15
tert-butyl alcohol	EPA TO-15
Vinyl acetate	EPA TO-15



Serial No.: 67090

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NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER



Expires 12:01 AM April 01, 2024
Issued April 01, 2023

CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE

Issued in accordance with and pursuant to section 502 Public Health Law of New York State

MR. JOHN TRIMBLE
ALPHA ANALYTICAL
320 FORBES BOULEVARD
MANSFIELD, MA 02048

NY Lab Id No: 11627

*is hereby APPROVED as an Environmental Laboratory in conformance with the
National Environmental Laboratory Accreditation Conference Standards (2016) for the category
ENVIRONMENTAL ANALYSES POTABLE WATER
All approved analytes are listed below:*

Metals I

Arsenic, Total	EPA 200.8 Rev. 5.4
Barium, Total	EPA 200.7 Rev. 4.4
	EPA 200.8 Rev. 5.4
Cadmium, Total	EPA 200.7 Rev. 4.4
	EPA 200.8 Rev. 5.4
Chromium, Total	EPA 200.7 Rev. 4.4
	EPA 200.8 Rev. 5.4
Copper, Total	EPA 200.7 Rev. 4.4
	EPA 200.8 Rev. 5.4
Iron, Total	EPA 200.7 Rev. 4.4
Lead, Total	EPA 200.8 Rev. 5.4
Manganese, Total	EPA 200.7 Rev. 4.4
	EPA 200.8 Rev. 5.4
Mercury, Total	EPA 245.1 Rev. 3.0
Selenium, Total	EPA 200.8 Rev. 5.4
Silver, Total	EPA 200.7 Rev. 4.4
	EPA 200.8 Rev. 5.4
Zinc, Total	EPA 200.7 Rev. 4.4
	EPA 200.8 Rev. 5.4

Metals II

Aluminum, Total	EPA 200.7 Rev. 4.4
	EPA 200.8 Rev. 5.4
Antimony, Total	EPA 200.8 Rev. 5.4
Beryllium, Total	EPA 200.8 Rev. 5.4
Nickel, Total	EPA 200.7 Rev. 4.4
	EPA 200.8 Rev. 5.4
Thallium, Total	EPA 200.8 Rev. 5.4

Serial No.: 67087

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Perfluorinated Alkyl Acids

NMEFOSAA	EPA 537.1
Nonafluoro-3,6-Dioxaheptanoic Acid	EPA 533
Perflourotridecanoic Acid (PFTRDA)	EPA 537.1
Perfluorodecanoic Acid (PFDA)	EPA 533
	EPA 537.1
Perfluoro-3-Methoxypropanoic Acid	EPA 533
Perfluoro-4-Methoxybutanoic Acid	EPA 533
Perfluorobutanesulfonic Acid (PFBS)	EPA 533
	EPA 537.1
Perfluorobutanoic Acid (PFBA)	EPA 533
Perfluorododecanoic Acid (PFDOA)	EPA 533
	EPA 537.1
Perfluoroheptanesulfonic Acid (PFHPS)	EPA 533
Perfluoroheptanoic Acid (PFHPA)	EPA 533
	EPA 537.1
Perfluorohexanesulfonic Acid (PFHXS)	EPA 533
	EPA 537.1
Perfluorohexanoic Acid (PFHXA)	EPA 533
	EPA 537.1
Perfluorononanoic Acid (PFNA)	EPA 533
	EPA 537.1
Perfluorooctanesulfonic Acid (PFOS)	EPA 533
	EPA 537.1
Perfluorooctanoic Acid (PFOA)	EPA 533
	EPA 537.1
Perfluoropentanesulfonic Acid (PFPEPES)	EPA 533
Perfluoropentanoic Acid (PFPEA)	EPA 533



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Perfluorinated Alkyl Acids

Perfluorotetradecanoic Acid (PFTA)	EPA 537.1
Perfluoroundecanoic Acid (PFUNA)	EPA 533
	EPA 537.1
PFEESA	EPA 533



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Amines

1,2-Diphenylhydrazine	EPA 8270D EPA 8270E
2-Nitroaniline	EPA 8270D EPA 8270E
3-Nitroaniline	EPA 8270D EPA 8270E
4-Chloroaniline	EPA 8270D EPA 8270E
4-Nitroaniline	EPA 8270D EPA 8270E
Aniline	EPA 8270D EPA 8270E
Carbazole	EPA 8270D EPA 8270E
Pyridine	EPA 8270D EPA 8270E

Benzidines

3,3'-Dichlorobenzidine	EPA 8270E
Benzidine	EPA 8270E

Chlorinated Hydrocarbon Pesticides

4,4'-DDD	EPA 8081B
4,4'-DDE	EPA 8081B
4,4'-DDT	EPA 8081B
Aldrin	EPA 8081B
alpha-BHC	EPA 8081B
alpha-Chlordane	EPA 8081B

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Chlorinated Hydrocarbon Pesticides

beta-BHC	EPA 8081B
Chlordane Total	EPA 8081B
delta-BHC	EPA 8081B
Dieldrin	EPA 8081B
Endosulfan I	EPA 8081B
Endosulfan II	EPA 8081B
Endosulfan sulfate	EPA 8081B
Endrin	EPA 8081B
Endrin aldehyde	EPA 8081B
Endrin Ketone	EPA 8081B
gamma-Chlordane	EPA 8081B
Heptachlor	EPA 8081B
Heptachlor epoxide	EPA 8081B
Isodrin	EPA 8081B
Lindane	EPA 8081B
Methoxychlor	EPA 8081B
Mirex	EPA 8081B
PCNB	EPA 8270E
Toxaphene	EPA 8081B

Chlorinated Hydrocarbons

1,2,4,5-Tetrachlorobenzene	EPA 8270E
1,2,4-Trichlorobenzene	EPA 8270D
2-Chloronaphthalene	EPA 8270E
Hexachlorobenzene	EPA 8081B
	EPA 8270E
Hexachlorobutadiene	EPA 8270E
Hexachlorocyclopentadiene	EPA 8270E

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Chlorinated Hydrocarbons

Hexachloroethane EPA 8270E

Dioxins and Furans

1,2,3,4,6,7,8,9-Octachlorodibenzofura EPA 8290A
EPA 1613B
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-d EPA 8290A
EPA 1613B
1,2,3,4,6,7,8-Heptachlorodibenzofurar EPA 8290A
EPA 1613B
1,2,3,4,6,7,8-Heptachlorodibenzo-p-di EPA 8290A
EPA 1613B
1,2,3,4,7,8,9-Heptachlorodibenzofurar EPA 8290A
EPA 1613B
1,2,3,4,7,8-Hexachlorodibenzofuran EPA 8290A
EPA 1613B
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxi EPA 8290A
EPA 1613B
1,2,3,6,7,8-Hexachlorodibenzofuran EPA 8290A
EPA 1613B
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxi EPA 8290A
EPA 1613B
1,2,3,7,8,9-Hexachlorodibenzofuran EPA 8290A
EPA 1613B
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxi EPA 8290A
EPA 1613B
1,2,3,7,8-Pentachlorodibenzofuran EPA 8290A
EPA 1613B
1,2,3,7,8-Pentachlorodibenzo-p-dioxin EPA 8290A



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Dioxins and Furans

1,2,3,7,8-Pentachlorodibenzo-p-dioxin	EPA 1613B
2,3,4,6,7,8-Hexachlorodibenzofuran	EPA 8290A EPA 1613B
2,3,4,7,8-Pentachlorodibenzofuran	EPA 8290A EPA 1613B
2,3,7,8-Tetrachlorodibenzofuran	EPA 8290A EPA 1613B
2,3,7,8-Tetrachlorodibenzo-p-dioxin	EPA 8290A EPA 1613B

Dissolved Gases

Ethane	RSK-175
Ethene (Ethylene)	RSK-175
Methane	RSK-175
Propane	RSK-175

Fuel Oxygenates

Ethanol	EPA 8015D
tert-amyl alcohol	EPA 8015D
tert-butyl alcohol	EPA 8015D

Haloethers

2,2'-Oxybis(1-chloropropane)	EPA 8270E
4-Bromophenylphenyl ether	EPA 8270E
4-Chlorophenylphenyl ether	EPA 8270E
Bis(2-chloroethoxy)methane	EPA 8270E
Bis(2-chloroethyl)ether	EPA 8270E

Low Level Polynuclear Aromatics

Acenaphthene Low Level	EPA 8270E SIM
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Low Level Polynuclear Aromatics

Acenaphthylene Low Level	EPA 8270E SIM
Anthracene Low Level	EPA 8270E SIM
Benzo(a)anthracene Low Level	EPA 8270E SIM
Benzo(a)pyrene Low Level	EPA 8270E SIM
Benzo(b)fluoranthene Low Level	EPA 8270E SIM
Benzo(g,h,i)perylene Low Level	EPA 8270E SIM
Benzo(k)fluoranthene Low Level	EPA 8270E SIM
Chrysene Low Level	EPA 8270E SIM
Dibenzo(a,h)anthracene Low Level	EPA 8270E SIM
Fluoranthene Low Level	EPA 8270E SIM
Fluorene Low Level	EPA 8270E SIM
Indeno(1,2,3-cd)pyrene Low Level	EPA 8270E SIM
Naphthalene Low Level	EPA 8270E SIM
Phenanthrene Low Level	EPA 8270E SIM
Pyrene Low Level	EPA 8270E SIM

Metals I

Barium, Total	EPA 200.7, Rev. 4.4 (1994)
	EPA 6010D
	EPA 6020B
	EPA 200.8, Rev. 5.4 (1994)
Cadmium, Total	EPA 200.7, Rev. 4.4 (1994)
	EPA 6010D
	EPA 6020B
	EPA 200.8, Rev. 5.4 (1994)
Calcium, Total	EPA 200.7, Rev. 4.4 (1994)
	EPA 6010D
	EPA 6020B



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Metals I

Chromium, Total	EPA 200.7, Rev. 4.4 (1994) EPA 6010D EPA 6020B EPA 200.8, Rev. 5.4 (1994)
Copper, Total	EPA 200.7, Rev. 4.4 (1994) EPA 6010D EPA 6020B EPA 200.8, Rev. 5.4 (1994)
Iron, Total	EPA 200.7, Rev. 4.4 (1994) EPA 6010D EPA 6020B EPA 200.8, Rev. 5.4 (1994)
Lead, Total	EPA 200.7, Rev. 4.4 (1994) EPA 6010D EPA 6020B EPA 200.8, Rev. 5.4 (1994)
Magnesium, Total	EPA 200.7, Rev. 4.4 (1994) EPA 6010D EPA 6020B
Manganese, Total	EPA 200.7, Rev. 4.4 (1994) EPA 6010D EPA 6020B EPA 200.8, Rev. 5.4 (1994)
Nickel, Total	EPA 200.7, Rev. 4.4 (1994) EPA 6010D EPA 6020B EPA 200.8, Rev. 5.4 (1994)

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Metals I

Potassium, Total	EPA 200.7, Rev. 4.4 (1994) EPA 6010D EPA 6020B
Silver, Total	EPA 200.8, Rev. 5.4 (1994) EPA 200.7, Rev. 4.4 (1994) EPA 6010D EPA 6020B
Sodium, Total	EPA 200.8, Rev. 5.4 (1994) EPA 200.7, Rev. 4.4 (1994) EPA 6010D EPA 6020B
Strontium, Total	EPA 200.8, Rev. 5.4 (1994) EPA 200.7, Rev. 4.4 (1994) EPA 6010D EPA 6020B

Metals II

Aluminum, Total	EPA 200.7, Rev. 4.4 (1994) EPA 6010D EPA 6020B
Antimony, Total	EPA 200.8, Rev. 5.4 (1994) EPA 200.7, Rev. 4.4 (1994) EPA 6010D EPA 6020B
Arsenic, Total	EPA 200.8, Rev. 5.4 (1994) EPA 200.7, Rev. 4.4 (1994) EPA 6010D EPA 6020B

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Metals II

Arsenic, Total	EPA 200.8, Rev. 5.4 (1994)
Beryllium, Total	EPA 200.7, Rev. 4.4 (1994) EPA 6010D EPA 6020B EPA 200.8, Rev. 5.4 (1994)
Mercury, Low Level	EPA 1631E
Mercury, Total	EPA 245.1, Rev. 3.0 (1994) EPA 7470A
Selenium, Total	EPA 200.7, Rev. 4.4 (1994) EPA 6010D EPA 6020B EPA 200.8, Rev. 5.4 (1994)
Vanadium, Total	EPA 200.7, Rev. 4.4 (1994) EPA 6010D EPA 6020B EPA 200.8, Rev. 5.4 (1994)
Zinc, Total	EPA 200.7, Rev. 4.4 (1994) EPA 6010D EPA 6020B EPA 200.8, Rev. 5.4 (1994)

Metals III

Cobalt, Total	EPA 200.7, Rev. 4.4 (1994) EPA 6010D EPA 6020B EPA 200.8, Rev. 5.4 (1994)
Molybdenum, Total	EPA 200.7, Rev. 4.4 (1994) EPA 6010D

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Metals III

Molybdenum, Total	EPA 6020B EPA 200.8, Rev. 5.4 (1994)
Thallium, Total	EPA 200.7, Rev. 4.4 (1994) EPA 6010D EPA 6020B EPA 200.8, Rev. 5.4 (1994)
Tin, Total	EPA 200.7, Rev. 4.4 (1994) EPA 6010D EPA 6020B
Titanium, Total	EPA 200.7, Rev. 4.4 (1994) EPA 6010D

Mineral

Hardness, Total	SM 2340B-2011
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Miscellaneous

Boron, Total	EPA 200.7, Rev. 4.4 (1994) EPA 6010D EPA 6020B
Silica, Dissolved	EPA 200.7, Rev. 4.4 (1994) EPA 6010D

Nitroaromatics and Isophorone

2,4-Dinitrotoluene	EPA 8270D EPA 8270E
2,6-Dinitrotoluene	EPA 8270D EPA 8270E
Isophorone	EPA 8270D EPA 8270E

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Nitroaromatics and Isophorone

Nitrobenzene	EPA 8270D
	EPA 8270E

Nitrosoamines

N-Nitrosodimethylamine	EPA 8270E
N-Nitrosodi-n-propylamine	EPA 8270E
N-Nitrosodiphenylamine	EPA 8270E

Organophosphate Pesticides

Atrazine	EPA 8270E
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Perfluorinated Alkyl Acids

11CL-PF3OUDS	EPA 1633 (Draft)
4:2FTS	EPA 1633 (Draft)
6:2FTS	EPA 1633 (Draft)
8:2FTS	EPA 1633 (Draft)
9CL-PF3ONS	EPA 1633 (Draft)
ADONA	EPA 1633 (Draft)
Hexafluoropropylene Oxide Dimer Acid	EPA 1633 (Draft)
NETFOSAA	EPA 1633 (Draft)
NMEFOSAA	EPA 1633 (Draft)
Nonafluoro-3,6-Dioxaheptanoic Acid	EPA 1633 (Draft)
Perfluorotridecanoic Acid (PFTRDA)	EPA 1633 (Draft)
Perfluorodecanoic Acid (PFDA)	EPA 1633 (Draft)
Perfluoro-3-Methoxypropanoic Acid	EPA 1633 (Draft)
Perfluoro-4-Methoxybutanoic Acid	EPA 1633 (Draft)
Perfluorobutanesulfonic Acid (PFBS)	EPA 1633 (Draft)
Perfluorobutanoic Acid (PFBA)	EPA 1633 (Draft)
Perfluorododecanoic Acid (PFDOA)	EPA 1633 (Draft)



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NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER



Expires 12:01 AM April 01, 2024
Issued April 01, 2023

CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE

Issued in accordance with and pursuant to section 502 Public Health Law of New York State

MR. JOHN TRIMBLE
ALPHA ANALYTICAL
320 FORBES BOULEVARD
MANSFIELD, MA 02048

NY Lab Id No: 11627

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National Environmental Laboratory Accreditation Conference Standards (2016) for the category
ENVIRONMENTAL ANALYSES NON POTABLE WATER
All approved analytes are listed below:*

Perfluorinated Alkyl Acids

Perfluoroheptanesulfonic Acid (PFHPS)	EPA 1633 (Draft)
Perfluoroheptanoic Acid (PFHPA)	EPA 1633 (Draft)
Perfluorohexanesulfonic Acid (PFHXS)	EPA 1633 (Draft)
Perfluorohexanoic Acid (PFHXA)	EPA 1633 (Draft)
Perfluorononanoic Acid (PFNA)	EPA 1633 (Draft)
Perfluorooctanesulfonic Acid (PFOS)	EPA 1633 (Draft)
Perfluorooctanoic Acid (PFOA)	EPA 1633 (Draft)
Perfluoropentanesulfonic Acid (PFPEs)	EPA 1633 (Draft)
Perfluoropentanoic Acid (PFPEA)	EPA 1633 (Draft)
Perfluorotetradecanoic Acid (PFTA)	EPA 1633 (Draft)
Perfluoroundecanoic Acid (PFUNA)	EPA 1633 (Draft)
PFEESA	EPA 1633 (Draft)

Petroleum Hydrocarbons

Diesel Range Organics	EPA 8015D
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Phthalate Esters

Benzyl butyl phthalate	EPA 8270E
Bis(2-ethylhexyl) phthalate	EPA 8270E
Diethyl phthalate	EPA 8270E
Dimethyl phthalate	EPA 8270E
Di-n-butyl phthalate	EPA 8270E
Di-n-octyl phthalate	EPA 8270E

Polychlorinated Biphenyls

Aroclor 1016 (PCB-1016)	EPA 8082A
Aroclor 1221 (PCB-1221)	EPA 8082A
Aroclor 1232 (PCB-1232)	EPA 8082A
Aroclor 1242 (PCB-1242)	EPA 8082A



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Polychlorinated Biphenyls

Aroclor 1248 (PCB-1248)	EPA 8082A
Aroclor 1254 (PCB-1254)	EPA 8082A
Aroclor 1260 (PCB-1260)	EPA 8082A
Aroclor 1262 (PCB-1262)	EPA 8082A
Aroclor 1268 (PCB-1268)	EPA 8082A
PCB 1	EPA 1668A EPA 1668C
PCB 10	EPA 1668A EPA 1668C
PCB 100	EPA 1668A EPA 1668C
PCB 101	EPA 1668A EPA 1668C
PCB 102	EPA 1668A EPA 1668C
PCB 103	EPA 1668A EPA 1668C
PCB 104	EPA 1668A EPA 1668C
PCB 105	EPA 1668A EPA 1668C
PCB 106	EPA 1668A EPA 1668C
PCB 107	EPA 1668A EPA 1668C
PCB 108	EPA 1668A EPA 1668C



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Polychlorinated Biphenyls

PCB 109	EPA 1668A
	EPA 1668C
PCB 11	EPA 1668A
	EPA 1668C
PCB 110	EPA 1668A
	EPA 1668C
PCB 111	EPA 1668A
	EPA 1668C
PCB 112	EPA 1668A
	EPA 1668C
PCB 113	EPA 1668A
	EPA 1668C
PCB 114	EPA 1668A
	EPA 1668C
PCB 115	EPA 1668A
	EPA 1668C
PCB 116	EPA 1668A
	EPA 1668C
PCB 117	EPA 1668A
	EPA 1668C
PCB 118	EPA 1668A
	EPA 1668C
PCB 119	EPA 1668A
	EPA 1668C
PCB 12	EPA 1668A
	EPA 1668C
PCB 120	EPA 1668A



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Polychlorinated Biphenyls

PCB 120	EPA 1668C
PCB 121	EPA 1668A EPA 1668C
PCB 122	EPA 1668A EPA 1668C
PCB 123	EPA 1668A EPA 1668C
PCB 124	EPA 1668A EPA 1668C
PCB 125	EPA 1668A EPA 1668C
PCB 126	EPA 1668A EPA 1668C
PCB 127	EPA 1668A EPA 1668C
PCB 128	EPA 1668A EPA 1668C
PCB 129	EPA 1668A EPA 1668C
PCB 13	EPA 1668A EPA 1668C
PCB 130	EPA 1668A EPA 1668C
PCB 131	EPA 1668A EPA 1668C
PCB 132	EPA 1668A EPA 1668C



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Polychlorinated Biphenyls

PCB 133	EPA 1668A
	EPA 1668C
PCB 134	EPA 1668A
	EPA 1668C
PCB 135	EPA 1668A
	EPA 1668C
PCB 136	EPA 1668A
	EPA 1668C
PCB 137	EPA 1668A
	EPA 1668C
PCB 138	EPA 1668A
	EPA 1668C
PCB 139	EPA 1668A
	EPA 1668C
PCB 14	EPA 1668A
	EPA 1668C
PCB 140	EPA 1668A
	EPA 1668C
PCB 141	EPA 1668A
	EPA 1668C
PCB 142	EPA 1668A
	EPA 1668C
PCB 143	EPA 1668A
	EPA 1668C
PCB 144	EPA 1668A
	EPA 1668C
PCB 145	EPA 1668A



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Polychlorinated Biphenyls

PCB 145	EPA 1668C
PCB 146	EPA 1668A EPA 1668C
PCB 147	EPA 1668A EPA 1668C
PCB 148	EPA 1668A EPA 1668C
PCB 149	EPA 1668A EPA 1668C
PCB 15	EPA 1668A EPA 1668C
PCB 150	EPA 1668A EPA 1668C
PCB 151	EPA 1668A EPA 1668C
PCB 152	EPA 1668A EPA 1668C
PCB 153	EPA 1668A EPA 1668C
PCB 154	EPA 1668A EPA 1668C
PCB 155	EPA 1668A EPA 1668C
PCB 156	EPA 1668A EPA 1668C
PCB 157	EPA 1668A EPA 1668C



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Polychlorinated Biphenyls

PCB 158	EPA 1668A
	EPA 1668C
PCB 159	EPA 1668A
	EPA 1668C
PCB 16	EPA 1668A
	EPA 1668C
PCB 160	EPA 1668A
	EPA 1668C
PCB 161	EPA 1668A
	EPA 1668C
PCB 162	EPA 1668A
	EPA 1668C
PCB 163	EPA 1668A
	EPA 1668C
PCB 164	EPA 1668A
	EPA 1668C
PCB 165	EPA 1668A
	EPA 1668C
PCB 166	EPA 1668A
	EPA 1668C
PCB 167	EPA 1668A
	EPA 1668C
PCB 168	EPA 1668A
	EPA 1668C
PCB 169	EPA 1668A
	EPA 1668C
PCB 17	EPA 1668A



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Polychlorinated Biphenyls

PCB 17	EPA 1668C
PCB 170	EPA 1668A EPA 1668C
PCB 171	EPA 1668A EPA 1668C
PCB 172	EPA 1668A EPA 1668C
PCB 173	EPA 1668A EPA 1668C
PCB 174	EPA 1668A EPA 1668C
PCB 175	EPA 1668A EPA 1668C
PCB 176	EPA 1668A EPA 1668C
PCB 177	EPA 1668A EPA 1668C
PCB 178	EPA 1668A EPA 1668C
PCB 179	EPA 1668A EPA 1668C
PCB 18	EPA 1668A EPA 1668C
PCB 180	EPA 1668A EPA 1668C
PCB 181	EPA 1668A EPA 1668C



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Polychlorinated Biphenyls

PCB 182	EPA 1668A
	EPA 1668C
PCB 183	EPA 1668A
	EPA 1668C
PCB 184	EPA 1668A
	EPA 1668C
PCB 185	EPA 1668A
	EPA 1668C
PCB 186	EPA 1668A
	EPA 1668C
PCB 187	EPA 1668A
	EPA 1668C
PCB 188	EPA 1668A
	EPA 1668C
PCB 189	EPA 1668A
	EPA 1668C
PCB 19	EPA 1668A
	EPA 1668C
PCB 190	EPA 1668A
	EPA 1668C
PCB 191	EPA 1668A
	EPA 1668C
PCB 192	EPA 1668A
	EPA 1668C
PCB 193	EPA 1668A
	EPA 1668C
PCB 194	EPA 1668A



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Polychlorinated Biphenyls

PCB 194	EPA 1668C
PCB 195	EPA 1668A EPA 1668C
PCB 196	EPA 1668A EPA 1668C
PCB 197	EPA 1668A EPA 1668C
PCB 198	EPA 1668A EPA 1668C
PCB 199	EPA 1668A EPA 1668C
PCB 2	EPA 1668A EPA 1668C
PCB 20	EPA 1668A EPA 1668C
PCB 200	EPA 1668A EPA 1668C
PCB 201	EPA 1668A EPA 1668C
PCB 202	EPA 1668A EPA 1668C
PCB 203	EPA 1668A EPA 1668C
PCB 204	EPA 1668A EPA 1668C
PCB 205	EPA 1668A EPA 1668C



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Polychlorinated Biphenyls

PCB 206	EPA 1668A
	EPA 1668C
PCB 207	EPA 1668A
	EPA 1668C
PCB 208	EPA 1668A
	EPA 1668C
PCB 209	EPA 1668A
	EPA 1668C
PCB 21	EPA 1668A
	EPA 1668C
PCB 22	EPA 1668A
	EPA 1668C
PCB 23	EPA 1668A
	EPA 1668C
PCB 24	EPA 1668A
	EPA 1668C
PCB 25	EPA 1668A
	EPA 1668C
PCB 26	EPA 1668A
	EPA 1668C
PCB 27	EPA 1668A
	EPA 1668C
PCB 28	EPA 1668A
	EPA 1668C
PCB 29	EPA 1668A
	EPA 1668C
PCB 3	EPA 1668A



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PCB 3	EPA 1668C
PCB 30	EPA 1668A
	EPA 1668C
PCB 31	EPA 1668A
	EPA 1668C
PCB 32	EPA 1668A
	EPA 1668C
PCB 33	EPA 1668A
	EPA 1668C
PCB 34	EPA 1668A
	EPA 1668C
PCB 35	EPA 1668A
	EPA 1668C
PCB 36	EPA 1668A
	EPA 1668C
PCB 37	EPA 1668A
	EPA 1668C
PCB 38	EPA 1668A
	EPA 1668C
PCB 39	EPA 1668A
	EPA 1668C
PCB 4	EPA 1668A
	EPA 1668C
PCB 40	EPA 1668A
	EPA 1668C
PCB 41	EPA 1668A
	EPA 1668C



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PCB 42	EPA 1668A
	EPA 1668C
PCB 43	EPA 1668A
	EPA 1668C
PCB 44	EPA 1668A
	EPA 1668C
PCB 45	EPA 1668A
	EPA 1668C
PCB 46	EPA 1668A
	EPA 1668C
PCB 47	EPA 1668A
	EPA 1668C
PCB 48	EPA 1668A
	EPA 1668C
PCB 49	EPA 1668A
	EPA 1668C
PCB 5	EPA 1668A
	EPA 1668C
PCB 50	EPA 1668A
	EPA 1668C
PCB 51	EPA 1668A
	EPA 1668C
PCB 52	EPA 1668A
	EPA 1668C
PCB 53	EPA 1668A
	EPA 1668C
PCB 54	EPA 1668A



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PCB 54	EPA 1668C
PCB 55	EPA 1668A EPA 1668C
PCB 56	EPA 1668A EPA 1668C
PCB 57	EPA 1668A EPA 1668C
PCB 58	EPA 1668A EPA 1668C
PCB 59	EPA 1668A EPA 1668C
PCB 6	EPA 1668A EPA 1668C
PCB 60	EPA 1668A EPA 1668C
PCB 61	EPA 1668A EPA 1668C
PCB 62	EPA 1668A EPA 1668C
PCB 63	EPA 1668A EPA 1668C
PCB 64	EPA 1668A EPA 1668C
PCB 65	EPA 1668A EPA 1668C
PCB 66	EPA 1668A EPA 1668C



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NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER



Expires 12:01 AM April 01, 2024
Issued April 01, 2023

CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE

Issued in accordance with and pursuant to section 502 Public Health Law of New York State

MR. JOHN TRIMBLE
ALPHA ANALYTICAL
320 FORBES BOULEVARD
MANSFIELD, MA 02048

NY Lab Id No: 11627

*is hereby APPROVED as an Environmental Laboratory in conformance with the
National Environmental Laboratory Accreditation Conference Standards (2016) for the category
ENVIRONMENTAL ANALYSES NON POTABLE WATER
All approved analytes are listed below:*

Polychlorinated Biphenyls

PCB 67	EPA 1668A
	EPA 1668C
PCB 68	EPA 1668A
	EPA 1668C
PCB 69	EPA 1668A
	EPA 1668C
PCB 7	EPA 1668A
	EPA 1668C
PCB 70	EPA 1668A
	EPA 1668C
PCB 71	EPA 1668A
	EPA 1668C
PCB 72	EPA 1668A
	EPA 1668C
PCB 73	EPA 1668A
	EPA 1668C
PCB 74	EPA 1668A
	EPA 1668C
PCB 75	EPA 1668A
	EPA 1668C
PCB 76	EPA 1668A
	EPA 1668C
PCB 77	EPA 1668A
	EPA 1668C
PCB 78	EPA 1668A
	EPA 1668C
PCB 79	EPA 1668A



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Polychlorinated Biphenyls

PCB 79	EPA 1668C
PCB 8	EPA 1668A
	EPA 1668C
PCB 80	EPA 1668A
	EPA 1668C
PCB 81	EPA 1668A
	EPA 1668C
PCB 82	EPA 1668A
	EPA 1668C
PCB 83	EPA 1668A
	EPA 1668C
PCB 84	EPA 1668A
	EPA 1668C
PCB 85	EPA 1668A
	EPA 1668C
PCB 86	EPA 1668A
	EPA 1668C
PCB 87	EPA 1668A
	EPA 1668C
PCB 88	EPA 1668A
	EPA 1668C
PCB 89	EPA 1668A
	EPA 1668C
PCB 9	EPA 1668A
	EPA 1668C
PCB 90	EPA 1668A
	EPA 1668C



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Polychlorinated Biphenyls

PCB 91	EPA 1668A
	EPA 1668C
PCB 92	EPA 1668A
	EPA 1668C
PCB 93	EPA 1668A
	EPA 1668C
PCB 94	EPA 1668A
	EPA 1668C
PCB 95	EPA 1668A
	EPA 1668C
PCB 96	EPA 1668A
	EPA 1668C
PCB 97	EPA 1668A
	EPA 1668C
PCB 98	EPA 1668A
	EPA 1668C
PCB 99	EPA 1668A
	EPA 1668C

Polynuclear Aromatics

Acenaphthene	EPA 8270E
Acenaphthylene	EPA 8270E
Anthracene	EPA 8270E
Benzo(a)anthracene	EPA 8270E
Benzo(a)pyrene	EPA 8270E
Benzo(b)fluoranthene	EPA 8270E
Benzo(g,h,i)perylene	EPA 8270E
Benzo(k)fluoranthene	EPA 8270E

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Polynuclear Aromatics

Chrysene	EPA 8270E
Dibenzo(a,h)anthracene	EPA 8270E
Fluoranthene	EPA 8270E
Fluorene	EPA 8270E
Indeno(1,2,3-cd)pyrene	EPA 8270E
Naphthalene	EPA 8270E
Phenanthrene	EPA 8270E
Pyrene	EPA 8270E

Priority Pollutant Phenols

2,3,4,6 Tetrachlorophenol	EPA 8270E
2,4,5-Trichlorophenol	EPA 8270E
2,4,6-Trichlorophenol	EPA 8270E
2,4-Dichlorophenol	EPA 8270E
2,4-Dimethylphenol	EPA 8270E
2,4-Dinitrophenol	EPA 8270E
2-Chlorophenol	EPA 8270E
2-Methyl-4,6-dinitrophenol	EPA 8270E
2-Methylphenol	EPA 8270E
2-Nitrophenol	EPA 8270E
3-Methylphenol	EPA 8270E
4-Chloro-3-methylphenol	EPA 8270E
4-Methylphenol	EPA 8270E
4-Nitrophenol	EPA 8270E
Pentachlorophenol	EPA 8270E
Phenol	EPA 8270E



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Semi-Volatile Organics

1,1'-Biphenyl	EPA 8270D EPA 8270E
1,2-Dichlorobenzene, Semi-volatile	EPA 8270D EPA 8270E
1,3-Dichlorobenzene, Semi-volatile	EPA 8270D EPA 8270E
1,4-Dichlorobenzene, Semi-volatile	EPA 8270D EPA 8270E
2-Methylnaphthalene	EPA 8270D EPA 8270E
Acetophenone	EPA 8270D EPA 8270E
Benzaldehyde	EPA 8270D EPA 8270E
Benzoic Acid	EPA 8270D EPA 8270E
Benzyl alcohol	EPA 8270D EPA 8270E
Caprolactam	EPA 8270D EPA 8270E
Dibenzofuran	EPA 8270D EPA 8270E

Volatiles Organics

1,4-Dioxane	EPA 8270D SIM EPA 8270E SIM
Ethylene Glycol	EPA 8015D
Isobutyl alcohol	EPA 8015D

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Volatiles Organics

Methanol	EPA 8015D
Propylene Glycol	EPA 8015D

Sample Preparation Methods

EPA 3015A
EPA 3005A
EPA 3510C



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Amines

1,2-Diphenylhydrazine	EPA 8270E
2-Nitroaniline	EPA 8270E
3-Nitroaniline	EPA 8270E
4-Chloroaniline	EPA 8270E
4-Nitroaniline	EPA 8270E
Aniline	EPA 8270E
Carbazole	EPA 8270E

Benzidines

3,3'-Dichlorobenzidine	EPA 8270E
Benzidine	EPA 8270E

Chlorinated Hydrocarbon Pesticides

4,4'-DDD	EPA 8081B
4,4'-DDE	EPA 8081B
4,4'-DDT	EPA 8081B
Aldrin	EPA 8081B
alpha-BHC	EPA 8081B
alpha-Chlordane	EPA 8081B
beta-BHC	EPA 8081B
Chlordane Total	EPA 8081B
delta-BHC	EPA 8081B
Dieldrin	EPA 8081B
Endosulfan I	EPA 8081B
Endosulfan II	EPA 8081B
Endosulfan sulfate	EPA 8081B
Endrin	EPA 8081B
Endrin aldehyde	EPA 8081B



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Chlorinated Hydrocarbon Pesticides

Endrin Ketone	EPA 8081B
gamma-Chlordane	EPA 8081B
Heptachlor	EPA 8081B
Heptachlor epoxide	EPA 8081B
Lindane	EPA 8081B
Methoxychlor	EPA 8081B
Mirex	EPA 8081B
Pentachloronitrobenzene	EPA 8270D
	EPA 8270E
Toxaphene	EPA 8081B

Chlorinated Hydrocarbons

1,2,4,5-Tetrachlorobenzene	EPA 8270E
1,2,4-Trichlorobenzene	EPA 8270E
2-Chloronaphthalene	EPA 8270E
Hexachlorobenzene	EPA 8270E
Hexachlorobutadiene	EPA 8270E
Hexachlorocyclopentadiene	EPA 8270E
Hexachloroethane	EPA 8270E

Dioxins and Furans

1,2,3,4,6,7,8,9-Octachlorodibenzofura	EPA 8290A
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-d	EPA 8290A
1,2,3,4,6,7,8-Heptachlorodibenzofurar	EPA 8290A
1,2,3,4,6,7,8-Heptachlorodibenzo-p-di	EPA 8290A
1,2,3,4,7,8,9-Heptachlorodibenzofurar	EPA 8290A
1,2,3,4,7,8-Hexachlorodibenzofuran	EPA 8290A
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxi	EPA 8290A

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Dioxins and Furans

1,2,3,6,7,8-Hexachlorodibenzofuran	EPA 8290A
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxi	EPA 8290A
1,2,3,7,8,9-Hexachlorodibenzofuran	EPA 8290A
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxi	EPA 8290A
1,2,3,7,8-Pentachlorodibenzofuran	EPA 8290A
1,2,3,7,8-Pentachlorodibenzo-p-dioxin	EPA 8290A
2,3,4,6,7,8-Hexachlorodibenzofuran	EPA 8290A
2,3,4,7,8-Pentachlorodibenzofuran	EPA 8290A
2,3,7,8-Tetrachlorodibenzofuran	EPA 8290A
2,3,7,8-Tetrachlorodibenzo-p-dioxin	EPA 8290A

Haloethers

2,2'-Oxybis(1-chloropropane)	EPA 8270E
4-Bromophenylphenyl ether	EPA 8270E
4-Chlorophenylphenyl ether	EPA 8270E
Bis(2-chloroethoxy)methane	EPA 8270E
Bis(2-chloroethyl)ether	EPA 8270E

Low Level Polynuclear Aromatic Hydrocarbons

Acenaphthene Low Level	EPA 8270E SIM
Acenaphthylene Low Level	EPA 8270E SIM
Anthracene Low Level	EPA 8270E SIM
Benzo(a)anthracene Low Level	EPA 8270E SIM
Benzo(a)pyrene Low Level	EPA 8270E SIM
Benzo(b)fluoranthene Low Level	EPA 8270E SIM
Benzo(g,h,i)perylene Low Level	EPA 8270E SIM
Benzo(k)fluoranthene Low Level	EPA 8270E SIM
Chrysene Low Level	EPA 8270E SIM

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Low Level Polynuclear Aromatic Hydrocarbons

Dibenzo(a,h)anthracene Low Level	EPA 8270E SIM
Fluoranthene Low Level	EPA 8270E SIM
Fluorene Low Level	EPA 8270E SIM
Indeno(1,2,3-cd)pyrene Low Level	EPA 8270E SIM
Naphthalene Low Level	EPA 8270E SIM
Phenanthrene Low Level	EPA 8270E SIM
Pyrene Low Level	EPA 8270E SIM

Metals I

Barium, Total	EPA 6010D EPA 6020B
Cadmium, Total	EPA 6010D EPA 6020B
Calcium, Total	EPA 6010D EPA 6020B
Chromium, Total	EPA 6010D EPA 6020B
Copper, Total	EPA 6010D EPA 6020B
Iron, Total	EPA 6010D EPA 6020B
Lead, Total	EPA 6010D EPA 6020B
Magnesium, Total	EPA 6010D EPA 6020B
Manganese, Total	EPA 6010D EPA 6020B
Nickel, Total	EPA 6010D

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Metals I

Nickel, Total	EPA 6020B
Potassium, Total	EPA 6010D EPA 6020B
Silver, Total	EPA 6010D EPA 6020B
Sodium, Total	EPA 6010D EPA 6020B
Strontium, Total	EPA 6010D EPA 6020B

Metals II

Aluminum, Total	EPA 6010D EPA 6020B
Antimony, Total	EPA 6010D EPA 6020B
Arsenic, Total	EPA 6010D EPA 6020B
Beryllium, Total	EPA 6010D EPA 6020B
Mercury, Total	EPA 7471B EPA 7474
Selenium, Total	EPA 6010D EPA 6020B
Vanadium, Total	EPA 6010D EPA 6020B
Zinc, Total	EPA 6010D EPA 6020B



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Metals III

Cobalt, Total	EPA 6010D
	EPA 6020B
Molybdenum, Total	EPA 6010D
	EPA 6020B
Thallium, Total	EPA 6010D
	EPA 6020B
Tin, Total	EPA 6010D
	EPA 6020B
Titanium, Total	EPA 6010D

Miscellaneous

Boron, Total	EPA 6010D
Organic Carbon, Total	Lloyd Kahn Method
	EPA 9060A

Nitroaromatics and Isophorone

2,4-Dinitrotoluene	EPA 8270E
2,6-Dinitrotoluene	EPA 8270E
Isophorone	EPA 8270E
Nitrobenzene	EPA 8270E
Pyridine	EPA 8270E

Nitrosoamines

N-Nitrosodimethylamine	EPA 8270E
N-Nitrosodi-n-propylamine	EPA 8270E
N-Nitrosodiphenylamine	EPA 8270E

Perfluorinated Alkyl Acids

8:2FTS	EPA 1633 (Draft)
NETFOSAA	EPA 1633 (Draft)

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Perfluorinated Alkyl Acids

NMEFOSAA	EPA 1633 (Draft)
Perfluorotridecanoic Acid (PFTRDA)	EPA 1633 (Draft)
Perfluorodecanoic Acid (PFDA)	EPA 1633 (Draft)
Perfluorobutanoic Acid (PFBA)	EPA 1633 (Draft)
Perfluorododecanoic Acid (PFDOA)	EPA 1633 (Draft)
Perfluoroheptanoic Acid (PFHPA)	EPA 1633 (Draft)
Perfluorohexanoic Acid (PFHXA)	EPA 1633 (Draft)
Perfluorononanoic Acid (PFNA)	EPA 1633 (Draft)
Perfluorooctanesulfonic Acid (PFOS)	EPA 1633 (Draft)
Perfluorooctanoic Acid (PFOA)	EPA 1633 (Draft)
Perfluoropentanoic Acid (PFPEA)	EPA 1633 (Draft)
Perfluorotetradecanoic Acid (PFTA)	EPA 1633 (Draft)
Perfluoroundecanoic Acid (PFUNA)	EPA 1633 (Draft)

Petroleum Hydrocarbons

Diesel Range Organics	EPA 8015D
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Phthalate Esters

Benzyl butyl phthalate	EPA 8270E
Bis(2-ethylhexyl) phthalate	EPA 8270E
Diethyl phthalate	EPA 8270E
Dimethyl phthalate	EPA 8270E
Di-n-butyl phthalate	EPA 8270E
Di-n-octyl phthalate	EPA 8270E

Polychlorinated Biphenyls

Aroclor 1016 (PCB-1016)	EPA 8082A
Aroclor 1221 (PCB-1221)	EPA 8082A
Aroclor 1232 (PCB-1232)	EPA 8082A



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NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER



Expires 12:01 AM April 01, 2024
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CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE

Issued in accordance with and pursuant to section 502 Public Health Law of New York State

MR. JOHN TRIMBLE
ALPHA ANALYTICAL
320 FORBES BOULEVARD
MANSFIELD, MA 02048

NY Lab Id No: 11627

*is hereby APPROVED as an Environmental Laboratory in conformance with the
National Environmental Laboratory Accreditation Conference Standards (2016) for the category
ENVIRONMENTAL ANALYSES SOLID AND HAZARDOUS WASTE
All approved analytes are listed below:*

Polychlorinated Biphenyls

Aroclor 1242 (PCB-1242)	EPA 8082A
Aroclor 1248 (PCB-1248)	EPA 8082A
Aroclor 1254 (PCB-1254)	EPA 8082A
Aroclor 1260 (PCB-1260)	EPA 8082A
Aroclor 1262 (PCB-1262)	EPA 8082A
Aroclor 1268 (PCB-1268)	EPA 8082A
PCB 1	EPA 1668A EPA 1668C
PCB 10	EPA 1668A EPA 1668C
PCB 100	EPA 1668A EPA 1668C
PCB 101	EPA 1668A EPA 1668C
PCB 102	EPA 1668A EPA 1668C
PCB 103	EPA 1668A EPA 1668C
PCB 104	EPA 1668A EPA 1668C
PCB 105	EPA 1668A EPA 1668C
PCB 106	EPA 1668A EPA 1668C
PCB 107	EPA 1668A EPA 1668C
PCB 108	EPA 1668A



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Polychlorinated Biphenyls

PCB 108	EPA 1668C
PCB 109	EPA 1668A
	EPA 1668C
PCB 11	EPA 1668A
	EPA 1668C
PCB 110	EPA 1668A
	EPA 1668C
PCB 111	EPA 1668A
	EPA 1668C
PCB 112	EPA 1668A
	EPA 1668C
PCB 113	EPA 1668A
	EPA 1668C
PCB 114	EPA 1668A
	EPA 1668C
PCB 115	EPA 1668A
	EPA 1668C
PCB 116	EPA 1668A
	EPA 1668C
PCB 117	EPA 1668A
	EPA 1668C
PCB 118	EPA 1668A
	EPA 1668C
PCB 119	EPA 1668A
	EPA 1668C
PCB 12	EPA 1668A
	EPA 1668C



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Polychlorinated Biphenyls

PCB 120	EPA 1668A
	EPA 1668C
PCB 121	EPA 1668A
	EPA 1668C
PCB 122	EPA 1668A
	EPA 1668C
PCB 123	EPA 1668A
	EPA 1668C
PCB 124	EPA 1668A
	EPA 1668C
PCB 125	EPA 1668A
	EPA 1668C
PCB 126	EPA 1668A
	EPA 1668C
PCB 127	EPA 1668A
	EPA 1668C
PCB 128	EPA 1668A
	EPA 1668C
PCB 129	EPA 1668A
	EPA 1668C
PCB 13	EPA 1668A
	EPA 1668C
PCB 130	EPA 1668A
	EPA 1668C
PCB 131	EPA 1668A
	EPA 1668C
PCB 132	EPA 1668A



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Polychlorinated Biphenyls

PCB 132	EPA 1668C
PCB 133	EPA 1668A EPA 1668C
PCB 134	EPA 1668A EPA 1668C
PCB 135	EPA 1668A EPA 1668C
PCB 136	EPA 1668A EPA 1668C
PCB 137	EPA 1668A EPA 1668C
PCB 138	EPA 1668A EPA 1668C
PCB 139	EPA 1668A EPA 1668C
PCB 14	EPA 1668A EPA 1668C
PCB 140	EPA 1668A EPA 1668C
PCB 141	EPA 1668A EPA 1668C
PCB 142	EPA 1668A EPA 1668C
PCB 143	EPA 1668A EPA 1668C
PCB 144	EPA 1668A EPA 1668C



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Polychlorinated Biphenyls

PCB 145	EPA 1668A
	EPA 1668C
PCB 146	EPA 1668A
	EPA 1668C
PCB 147	EPA 1668A
	EPA 1668C
PCB 148	EPA 1668A
	EPA 1668C
PCB 149	EPA 1668A
	EPA 1668C
PCB 15	EPA 1668A
	EPA 1668C
PCB 150	EPA 1668A
	EPA 1668C
PCB 151	EPA 1668A
	EPA 1668C
PCB 152	EPA 1668A
	EPA 1668C
PCB 153	EPA 1668A
	EPA 1668C
PCB 154	EPA 1668A
	EPA 1668C
PCB 155	EPA 1668A
	EPA 1668C
PCB 156	EPA 1668A
	EPA 1668C
PCB 157	EPA 1668A



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Polychlorinated Biphenyls

PCB 157	EPA 1668C
PCB 158	EPA 1668A
	EPA 1668C
PCB 159	EPA 1668A
	EPA 1668C
PCB 16	EPA 1668A
	EPA 1668C
PCB 160	EPA 1668A
	EPA 1668C
PCB 161	EPA 1668A
	EPA 1668C
PCB 162	EPA 1668A
	EPA 1668C
PCB 163	EPA 1668A
	EPA 1668C
PCB 164	EPA 1668A
	EPA 1668C
PCB 165	EPA 1668A
	EPA 1668C
PCB 166	EPA 1668A
	EPA 1668C
PCB 167	EPA 1668A
	EPA 1668C
PCB 168	EPA 1668A
	EPA 1668C
PCB 169	EPA 1668A
	EPA 1668C



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Polychlorinated Biphenyls

PCB 17	EPA 1668A EPA 1668C
PCB 170	EPA 1668A EPA 1668C
PCB 171	EPA 1668A EPA 1668C
PCB 172	EPA 1668A EPA 1668C
PCB 173	EPA 1668A EPA 1668C
PCB 174	EPA 1668A EPA 1668C
PCB 175	EPA 1668A EPA 1668C
PCB 176	EPA 1668A EPA 1668C
PCB 177	EPA 1668A EPA 1668C
PCB 178	EPA 1668A EPA 1668C
PCB 179	EPA 1668A EPA 1668C
PCB 18	EPA 1668A EPA 1668C
PCB 180	EPA 1668A EPA 1668C
PCB 181	EPA 1668A



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Polychlorinated Biphenyls

PCB 181	EPA 1668C
PCB 182	EPA 1668A
	EPA 1668C
PCB 183	EPA 1668A
	EPA 1668C
PCB 184	EPA 1668A
	EPA 1668C
PCB 185	EPA 1668A
	EPA 1668C
PCB 186	EPA 1668A
	EPA 1668C
PCB 187	EPA 1668A
	EPA 1668C
PCB 188	EPA 1668A
	EPA 1668C
PCB 189	EPA 1668A
	EPA 1668C
PCB 19	EPA 1668A
	EPA 1668C
PCB 190	EPA 1668A
	EPA 1668C
PCB 191	EPA 1668A
	EPA 1668C
PCB 192	EPA 1668A
	EPA 1668C
PCB 193	EPA 1668A
	EPA 1668C



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Polychlorinated Biphenyls

PCB 194	EPA 1668A
	EPA 1668C
PCB 195	EPA 1668A
	EPA 1668C
PCB 196	EPA 1668A
	EPA 1668C
PCB 197	EPA 1668A
	EPA 1668C
PCB 198	EPA 1668A
	EPA 1668C
PCB 199	EPA 1668A
	EPA 1668C
PCB 2	EPA 1668A
	EPA 1668C
PCB 20	EPA 1668A
	EPA 1668C
PCB 200	EPA 1668A
	EPA 1668C
PCB 201	EPA 1668A
	EPA 1668C
PCB 202	EPA 1668A
	EPA 1668C
PCB 203	EPA 1668A
	EPA 1668C
PCB 204	EPA 1668A
	EPA 1668C
PCB 205	EPA 1668A



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Polychlorinated Biphenyls

PCB 205	EPA 1668C
PCB 206	EPA 1668A EPA 1668C
PCB 207	EPA 1668A EPA 1668C
PCB 208	EPA 1668A EPA 1668C
PCB 209	EPA 1668A EPA 1668C
PCB 21	EPA 1668A EPA 1668C
PCB 22	EPA 1668A EPA 1668C
PCB 23	EPA 1668A EPA 1668C
PCB 24	EPA 1668A EPA 1668C
PCB 25	EPA 1668A EPA 1668C
PCB 26	EPA 1668A EPA 1668C
PCB 27	EPA 1668A EPA 1668C
PCB 28	EPA 1668A EPA 1668C
PCB 29	EPA 1668A EPA 1668C



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PCB 3	EPA 1668A
	EPA 1668C
PCB 30	EPA 1668A
	EPA 1668C
PCB 31	EPA 1668A
	EPA 1668C
PCB 32	EPA 1668A
	EPA 1668C
PCB 33	EPA 1668A
	EPA 1668C
PCB 34	EPA 1668A
	EPA 1668C
PCB 35	EPA 1668A
	EPA 1668C
PCB 36	EPA 1668A
	EPA 1668C
PCB 37	EPA 1668A
	EPA 1668C
PCB 38	EPA 1668A
	EPA 1668C
PCB 39	EPA 1668A
	EPA 1668C
PCB 4	EPA 1668A
	EPA 1668C
PCB 40	EPA 1668A
	EPA 1668C
PCB 41	EPA 1668A



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PCB 41	EPA 1668C
PCB 42	EPA 1668A
	EPA 1668C
PCB 43	EPA 1668A
	EPA 1668C
PCB 44	EPA 1668A
	EPA 1668C
PCB 45	EPA 1668A
	EPA 1668C
PCB 46	EPA 1668A
	EPA 1668C
PCB 47	EPA 1668A
	EPA 1668C
PCB 48	EPA 1668A
	EPA 1668C
PCB 49	EPA 1668A
	EPA 1668C
PCB 5	EPA 1668A
	EPA 1668C
PCB 50	EPA 1668A
	EPA 1668C
PCB 51	EPA 1668A
	EPA 1668C
PCB 52	EPA 1668A
	EPA 1668C
PCB 53	EPA 1668A
	EPA 1668C



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PCB 54	EPA 1668A
	EPA 1668C
PCB 55	EPA 1668A
	EPA 1668C
PCB 56	EPA 1668A
	EPA 1668C
PCB 57	EPA 1668A
	EPA 1668C
PCB 58	EPA 1668A
	EPA 1668C
PCB 59	EPA 1668A
	EPA 1668C
PCB 6	EPA 1668A
	EPA 1668C
PCB 60	EPA 1668A
	EPA 1668C
PCB 61	EPA 1668A
	EPA 1668C
PCB 62	EPA 1668A
	EPA 1668C
PCB 63	EPA 1668A
	EPA 1668C
PCB 64	EPA 1668A
	EPA 1668C
PCB 65	EPA 1668A
	EPA 1668C
PCB 66	EPA 1668A



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Polychlorinated Biphenyls

PCB 66	EPA 1668C
PCB 67	EPA 1668A EPA 1668C
PCB 68	EPA 1668A EPA 1668C
PCB 69	EPA 1668A EPA 1668C
PCB 7	EPA 1668A EPA 1668C
PCB 70	EPA 1668A EPA 1668C
PCB 71	EPA 1668A EPA 1668C
PCB 72	EPA 1668A EPA 1668C
PCB 73	EPA 1668A EPA 1668C
PCB 74	EPA 1668A EPA 1668C
PCB 75	EPA 1668A EPA 1668C
PCB 76	EPA 1668A EPA 1668C
PCB 77	EPA 1668A EPA 1668C
PCB 78	EPA 1668A EPA 1668C



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All approved analytes are listed below:*

Polychlorinated Biphenyls

PCB 79	EPA 1668A
	EPA 1668C
PCB 8	EPA 1668A
	EPA 1668C
PCB 80	EPA 1668A
	EPA 1668C
PCB 81	EPA 1668A
	EPA 1668C
PCB 82	EPA 1668A
	EPA 1668C
PCB 83	EPA 1668A
	EPA 1668C
PCB 84	EPA 1668A
	EPA 1668C
PCB 85	EPA 1668A
	EPA 1668C
PCB 86	EPA 1668A
	EPA 1668C
PCB 87	EPA 1668A
	EPA 1668C
PCB 88	EPA 1668A
	EPA 1668C
PCB 89	EPA 1668A
	EPA 1668C
PCB 9	EPA 1668A
	EPA 1668C
PCB 90	EPA 1668A



Serial No.: 67089

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NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER



Expires 12:01 AM April 01, 2024
Issued April 01, 2023

CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE

Issued in accordance with and pursuant to section 502 Public Health Law of New York State

MR. JOHN TRIMBLE
ALPHA ANALYTICAL
320 FORBES BOULEVARD
MANSFIELD, MA 02048

NY Lab Id No: 11627

*is hereby APPROVED as an Environmental Laboratory in conformance with the
National Environmental Laboratory Accreditation Conference Standards (2016) for the category
ENVIRONMENTAL ANALYSES SOLID AND HAZARDOUS WASTE
All approved analytes are listed below:*

Polychlorinated Biphenyls

PCB 90	EPA 1668C
PCB 91	EPA 1668A
	EPA 1668C
PCB 92	EPA 1668A
	EPA 1668C
PCB 93	EPA 1668A
	EPA 1668C
PCB 94	EPA 1668A
	EPA 1668C
PCB 95	EPA 1668A
	EPA 1668C
PCB 96	EPA 1668A
	EPA 1668C
PCB 97	EPA 1668A
	EPA 1668C
PCB 98	EPA 1668A
	EPA 1668C
PCB 99	EPA 1668A
	EPA 1668C

Polynuclear Aromatic Hydrocarbons

Acenaphthene	EPA 8270E
Acenaphthylene	EPA 8270E
Anthracene	EPA 8270E
Benzo(a)anthracene	EPA 8270E
Benzo(a)pyrene	EPA 8270E
Benzo(b)fluoranthene	EPA 8270E
Benzo(g,h,i)perylene	EPA 8270E

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All approved analytes are listed below:*

Polynuclear Aromatic Hydrocarbons

Benzo(k)fluoranthene	EPA 8270E
Chrysene	EPA 8270E
Dibenzo(a,h)anthracene	EPA 8270E
Fluoranthene	EPA 8270E
Fluorene	EPA 8270E
Indeno(1,2,3-cd)pyrene	EPA 8270E
Naphthalene	EPA 8270E
Phenanthrene	EPA 8270E
Pyrene	EPA 8270E

Priority Pollutant Phenols

2,3,4,6 Tetrachlorophenol	EPA 8270E
2,4,5-Trichlorophenol	EPA 8270E
2,4,6-Trichlorophenol	EPA 8270E
2,4-Dichlorophenol	EPA 8270E
2,4-Dimethylphenol	EPA 8270E
2,4-Dinitrophenol	EPA 8270E
2-Chlorophenol	EPA 8270E
2-Methyl-4,6-dinitrophenol	EPA 8270E
2-Methylphenol	EPA 8270E
2-Nitrophenol	EPA 8270E
3-Methylphenol	EPA 8270E
4-Chloro-3-methylphenol	EPA 8270E
4-Methylphenol	EPA 8270E
4-Nitrophenol	EPA 8270E
Pentachlorophenol	EPA 8270E
Phenol	EPA 8270E



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ENVIRONMENTAL ANALYSES SOLID AND HAZARDOUS WASTE
All approved analytes are listed below:*

Semi-Volatile Organics

1,1'-Biphenyl	EPA 8270E
1,2-Dichlorobenzene, Semi-volatile	EPA 8270E
1,3-Dichlorobenzene, Semi-volatile	EPA 8270E
1,4-Dichlorobenzene, Semi-volatile	EPA 8270E
2-Methylnaphthalene	EPA 8270E
Acetophenone	EPA 8270E
Benzaldehyde	EPA 8270E
Benzoic Acid	EPA 8270E
Benzyl alcohol	EPA 8270E
Caprolactam	EPA 8270E
Dibenzofuran	EPA 8270E

Volatile Organics

1,4-Dioxane	EPA 8270E SIM
Ethylene Glycol	EPA 8015D
Isobutyl alcohol	EPA 8015D
tert-butyl alcohol	EPA 8015D

Sample Preparation Methods

EPA 3570
EPA 3580A
EPA 3050B
EPA 3051A



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Appendix D – Data Usability Summary Report

**DATA USABILITY SUMMARY REPORT
168 8th STREET, BROOKLYN, NEW YORK**

Client: TRC Engineering, Inc., New York, New York
SDG: L2407645
Laboratory: Alpha Analytical Laboratory, Mansfield, Massachusetts
Site: 168 8th Street, Brooklyn, New York
Date: February 19, 2024

EDS ID	Client Sample ID	Laboratory Sample ID	Matrix
1	TRC-IA-01	L2407645-01	Air
2	TRC-IA-02	L2407645-02	Air
3	TRC-IA-03	L2407645-03	Air
4	TRC-AA-01	L2407645-04	Air

A Data Usability Summary Review was performed on the analytical data for four air samples collected on February 9, 2024 by TRC at the 168 8th Street site in Brooklyn, New York. The samples were analyzed under “Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air, Second Edition January 1999, EPA/625/R-96/010B”, Compendium Method TO-15, “Determination of Volatile Organic Compounds (VOCs) in Air Collected in Specially-Prepared Canisters and Analyzed by Gas Chromatography/Mass Spectrometry (GC/MS)”.

Specific method references are as follows:

Analysis

VOCs
VOCs

Method References

USEPA Method TO-15
USEPA Method TO-15 SIM

The data have been validated according to the protocols and quality control (QC) requirements of the analytical method and the USEPA National Functional Guidelines for Organic Data Review as follows:

- The USEPA “Contract Laboratories Program National Functional Guidelines for Organic Superfund Methods Data Review,” January 2017;
- and the reviewer's professional judgment.

The following items/criteria were reviewed for this report:

Organics

- Data Completeness
- Chains-of-Custody and Traffic Reports
- Holding Times and sample preservation
- GC/MS Tuning

- Initial and Continuing Calibration Summaries
- Method Blank Contamination
- Laboratory Control Sample (LCS) recoveries
- Internal Standard (IS) Area Performance
- Compound Quantitation
- Field Duplicate Sample Precision

Data Usability Assessment

There were no rejections of data.

The data are acceptable for the intended purposes. There were no qualifications.

Data Completeness

- The data is a complete Category B data package as defined under the requirements for the NYS Department of Environmental Conservation Analytical Services Protocol.

Volatile Organic Compounds (VOCs)

Chains-of-Custody and Traffic Reports

- All criteria were met.

Holding Times

- All samples were analyzed within 30 days for air samples.

GC/MS Tuning

- All criteria were met.

Initial Calibration

- The initial calibrations exhibited acceptable percent relative standard deviation (%RSD) and mean RRF values.

Continuing Calibration

- The continuing calibrations exhibited acceptable percent differences (%D) and RRF values.

Method Blank

- The method blanks were free of contamination.

Laboratory Control Samples

- The following table presents LCS percent recoveries (%R) outside the QC limits. A low %R may indicate a potential low bias while a high %R may indicate a potential high bias. For a low %R, positive results are considered estimated and qualified (J) while non-detects are estimated and qualified (UJ). For a high %R, positive results are considered estimated and qualified (J). Results are valid and usable, however possibly biased.

LCS ID	Compound	%R	Qualifier	Affected Samples
WG1885731-3	Bromodichloromethane	132%	None	All Associated ND
	Dibromochloromethane	142%		
	Bromoform	144%		

Internal Standard (IS) Area Performance

- All internal standards met response and retention time (RT) criteria.

Compound Quantitation

- All criteria were met.

Field Duplicate Sample Precision

- Field duplicate samples were not collected.

Volatile Organic Compounds (VOC-SIMs)

Holding Times

- All samples were analyzed within 30 days for air samples.

GC/MS Tuning

- All criteria were met.

Initial Calibration

- The initial calibrations exhibited acceptable percent relative standard deviation (%RSD) and mean RRF values.

Continuing Calibration

- The continuing calibrations exhibited acceptable percent differences (%D) and RRF values.

Method Blank

- The method blanks were free of contamination.

Laboratory Control Samples

- The LCS exhibited acceptable percent recoveries (%R).

Internal Standard (IS) Area Performance

- All internal standards met response and retention time (RT) criteria.

Compound Quantitation

- All criteria were met.

Field Duplicate Sample Precision

- Field duplicate samples were not collected.

Please contact the undersigned at (561) 475-2000 if you have any questions or need further information.

Signed: Nancy Weaver
Nancy Weaver
Senior Chemist

Dated: 2/20/24

Data Qualifier	Definition
U	The analyte was analyzed for, but was not detected above the level of the reported sample quantitation limit.
J	The analyte is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
NJ	The analysis has been "tentatively identified" or "presumptively" as present and the associated numerical value is the estimated concentration in the samples.
UJ	The analyte was analyzed for but was not detected. The reported quantitation limits is approximate and may be inaccurate or imprecise.
R	The data are unusable. The sample results are rejected due to serious deficiencies in meeting QC criteria. The analyte may or may not be present in the samples.

Results Summary Form 1 Volatile Organics in Air

Client : TRC Environmental Corp	Lab Number : L2407645
Project Name : K710 IAQ	Project Number : 457205
Lab ID : L2407645-01	Date Collected : 02/09/24 15:44
Client ID : TRC-IA-01	Date Received : 02/09/24
Sample Location : 168 8TH STREET, BROOKLYN, NY	Date Analyzed : 02/15/24 20:59
Sample Matrix : AIR	Dilution Factor : 1
Analytical Method : 48,TO-15	Analyst : JMB
Lab File ID : R1738654	Instrument ID : AIRLAB17
Sample Amount : 250 ml	GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
75-71-8	Dichlorodifluoromethane	0.488	0.200	--	2.41	0.989	--	
74-87-3	Chloromethane	0.485	0.200	--	1.00	0.413	--	
76-14-2	Freon-114	ND	0.200	--	ND	1.40	--	U
106-99-0	1,3-Butadiene	ND	0.200	--	ND	0.442	--	U
74-83-9	Bromomethane	ND	0.200	--	ND	0.777	--	U
75-00-3	Chloroethane	ND	0.200	--	ND	0.528	--	U
64-17-5	Ethanol	7.95	5.00	--	15.0	9.42	--	
593-60-2	Vinyl bromide	ND	0.200	--	ND	0.874	--	U
67-64-1	Acetone	2.20	1.00	--	5.23	2.38	--	
75-69-4	Trichlorofluoromethane	0.221	0.200	--	1.24	1.12	--	
67-63-0	Isopropanol	0.934	0.500	--	2.30	1.23	--	
75-65-0	Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--	U
75-09-2	Methylene chloride	ND	0.500	--	ND	1.74	--	U
107-05-1	3-Chloropropene	ND	0.200	--	ND	0.626	--	U
75-15-0	Carbon disulfide	ND	0.200	--	ND	0.623	--	U
76-13-1	Freon-113	ND	0.200	--	ND	1.53	--	U
156-60-5	trans-1,2-Dichloroethane	ND	0.200	--	ND	0.793	--	U
75-34-3	1,1-Dichloroethane	ND	0.200	--	ND	0.809	--	U
1634-04-4	Methyl tert butyl ether	ND	0.200	--	ND	0.721	--	U
78-93-3	2-Butanone	ND	0.500	--	ND	1.47	--	U
141-78-6	Ethyl Acetate	ND	0.500	--	ND	1.80	--	U
67-66-3	Chloroform	ND	0.200	--	ND	0.977	--	U
109-99-9	Tetrahydrofuran	ND	0.500	--	ND	1.47	--	U
107-06-2	1,2-Dichloroethane	ND	0.200	--	ND	0.809	--	U
110-54-3	n-Hexane	ND	0.200	--	ND	0.705	--	U
71-43-2	Benzene	ND	0.200	--	ND	0.639	--	U

NW 2/19/24



Results Summary Form 1 Volatile Organics in Air

Client : TRC Environmental Corp
 Project Name : K710 IAQ
 Lab ID : L2407645-01
 Client ID : TRC-IA-01
 Sample Location : 168 8TH STREET, BROOKLYN, NY
 Sample Matrix : AIR
 Analytical Method : 48,TO-15
 Lab File ID : R1738654
 Sample Amount : 250 ml

Lab Number : L2407645
 Project Number : 457205
 Date Collected : 02/09/24 15:44
 Date Received : 02/09/24
 Date Analyzed : 02/15/24 20:59
 Dilution Factor : 1
 Analyst : JMB
 Instrument ID : AIRLAB17
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
110-82-7	Cyclohexane	ND	0.200	--	ND	0.688	--	U
78-87-5	1,2-Dichloropropane	ND	0.200	--	ND	0.924	--	U
75-27-4	Bromodichloromethane	ND	0.200	--	ND	1.34	--	U
123-91-1	1,4-Dioxane	ND	0.200	--	ND	0.721	--	U
540-84-1	2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--	U
142-82-5	Heptane	ND	0.200	--	ND	0.820	--	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
108-10-1	4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
79-00-5	1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--	U
108-88-3	Toluene	0.226	0.200	--	0.852	0.754	--	
591-78-6	2-Hexanone	ND	0.200	--	ND	0.820	--	U
124-48-1	Dibromochloromethane	ND	0.200	--	ND	1.70	--	U
106-93-4	1,2-Dibromoethane	ND	0.200	--	ND	1.54	--	U
108-90-7	Chlorobenzene	ND	0.200	--	ND	0.921	--	U
100-41-4	Ethylbenzene	ND	0.200	--	ND	0.869	--	U
179601-23-1	p/m-Xylene	ND	0.400	--	ND	1.74	--	U
75-25-2	Bromoform	ND	0.200	--	ND	2.07	--	U
100-42-5	Styrene	ND	0.200	--	ND	0.852	--	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--	U
95-47-6	o-Xylene	ND	0.200	--	ND	0.869	--	U
622-96-8	4-Ethyltoluene	ND	0.200	--	ND	0.983	--	U
108-67-8	1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--	U
95-63-6	1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--	U
100-44-7	Benzyl chloride	ND	0.200	--	ND	1.04	--	U
541-73-1	1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U

NW 2/19/24



Results Summary Form 1 Volatile Organics in Air

Client : TRC Environmental Corp	Lab Number : L2407645
Project Name : K710 IAQ	Project Number : 457205
Lab ID : L2407645-01	Date Collected : 02/09/24 15:44
Client ID : TRC-IA-01	Date Received : 02/09/24
Sample Location : 168 8TH STREET, BROOKLYN, NY	Date Analyzed : 02/15/24 20:59
Sample Matrix : AIR	Dilution Factor : 1
Analytical Method : 48,TO-15	Analyst : JMB
Lab File ID : R1738654	Instrument ID : AIRLAB17
Sample Amount : 250 ml	GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
106-46-7	1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
95-50-1	1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
120-82-1	1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--	U
87-68-3	Hexachlorobutadiene	ND	0.200	--	ND	2.13	--	U

NW 2/19/24



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Results Summary Form 1 Volatile Organics in Air

Client : TRC Environmental Corp
 Project Name : K710 IAQ
 Lab ID : L2407645-02
 Client ID : TRC-IA-02
 Sample Location : 168 8TH STREET, BROOKLYN, NY
 Sample Matrix : AIR
 Analytical Method : 48,TO-15
 Lab File ID : R1738655
 Sample Amount : 250 ml

Lab Number : L2407645
 Project Number : 457205
 Date Collected : 02/09/24 15:24
 Date Received : 02/09/24
 Date Analyzed : 02/15/24 21:39
 Dilution Factor : 1
 Analyst : JMB
 Instrument ID : AIRLAB17
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
75-71-8	Dichlorodifluoromethane	0.496	0.200	--	2.45	0.989	--	
74-87-3	Chloromethane	0.499	0.200	--	1.03	0.413	--	
76-14-2	Freon-114	ND	0.200	--	ND	1.40	--	U
106-99-0	1,3-Butadiene	ND	0.200	--	ND	0.442	--	U
74-83-9	Bromomethane	ND	0.200	--	ND	0.777	--	U
75-00-3	Chloroethane	ND	0.200	--	ND	0.528	--	U
64-17-5	Ethanol	19.1	5.00	--	36.0	9.42	--	
593-60-2	Vinyl bromide	ND	0.200	--	ND	0.874	--	U
67-64-1	Acetone	4.44	1.00	--	10.5	2.38	--	
75-69-4	Trichlorofluoromethane	0.234	0.200	--	1.31	1.12	--	
67-63-0	Isopropanol	1.40	0.500	--	3.44	1.23	--	
75-65-0	Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--	U
75-09-2	Methylene chloride	ND	0.500	--	ND	1.74	--	U
107-05-1	3-Chloropropene	ND	0.200	--	ND	0.626	--	U
75-15-0	Carbon disulfide	ND	0.200	--	ND	0.623	--	U
76-13-1	Freon-113	ND	0.200	--	ND	1.53	--	U
156-60-5	trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--	U
75-34-3	1,1-Dichloroethane	ND	0.200	--	ND	0.809	--	U
1634-04-4	Methyl tert butyl ether	ND	0.200	--	ND	0.721	--	U
78-93-3	2-Butanone	ND	0.500	--	ND	1.47	--	U
141-78-6	Ethyl Acetate	0.779	0.500	--	2.81	1.80	--	
67-66-3	Chloroform	ND	0.200	--	ND	0.977	--	U
109-99-9	Tetrahydrofuran	1.01	0.500	--	2.98	1.47	--	
107-06-2	1,2-Dichloroethane	ND	0.200	--	ND	0.809	--	U
110-54-3	n-Hexane	0.204	0.200	--	0.719	0.705	--	
71-43-2	Benzene	0.231	0.200	--	0.738	0.639	--	

mw 2/19/24



2

Results Summary Form 1 Volatile Organics in Air

Client : TRC Environmental Corp	Lab Number : L2407645
Project Name : K710 IAQ	Project Number : 457205
Lab ID : L2407645-02	Date Collected : 02/09/24 15:24
Client ID : TRC-IA-02	Date Received : 02/09/24
Sample Location : 168 8TH STREET, BROOKLYN, NY	Date Analyzed : 02/15/24 21:39
Sample Matrix : AIR	Dilution Factor : 1
Analytical Method : 48,TO-15	Analyst : JMB
Lab File ID : R1738655	Instrument ID : AIRLAB17
Sample Amount : 250 ml	GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
110-82-7	Cyclohexane	ND	0.200	--	ND	0.688	--	U
78-87-5	1,2-Dichloropropane	ND	0.200	--	ND	0.924	--	U
75-27-4	Bromodichloromethane	ND	0.200	--	ND	1.34	--	U
123-91-1	1,4-Dioxane	ND	0.200	--	ND	0.721	--	U
540-84-1	2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--	U
142-82-5	Heptane	ND	0.200	--	ND	0.820	--	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
108-10-1	4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
79-00-5	1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--	U
108-88-3	Toluene	0.470	0.200	--	1.77	0.754	--	
591-78-6	2-Hexanone	ND	0.200	--	ND	0.820	--	U
124-48-1	Dibromochloromethane	ND	0.200	--	ND	1.70	--	U
106-93-4	1,2-Dibromoethane	ND	0.200	--	ND	1.54	--	U
108-90-7	Chlorobenzene	ND	0.200	--	ND	0.921	--	U
100-41-4	Ethylbenzene	ND	0.200	--	ND	0.869	--	U
179601-23-1	p/m-Xylene	ND	0.400	--	ND	1.74	--	U
75-25-2	Bromoform	ND	0.200	--	ND	2.07	--	U
100-42-5	Styrene	ND	0.200	--	ND	0.852	--	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--	U
95-47-6	o-Xylene	ND	0.200	--	ND	0.869	--	U
622-96-8	4-Ethyltoluene	ND	0.200	--	ND	0.983	--	U
108-67-8	1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--	U
95-63-6	1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--	U
100-44-7	Benzyl chloride	ND	0.200	--	ND	1.04	--	U
541-73-1	1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U

nw 2/19/24



2

Results Summary Form 1 Volatile Organics in Air

Client : TRC Environmental Corp
 Project Name : K710 IAQ
 Lab ID : L2407645-02
 Client ID : TRC-IA-02
 Sample Location : 168 8TH STREET, BROOKLYN, NY
 Sample Matrix : AIR
 Analytical Method : 48,TO-15
 Lab File ID : R1738655
 Sample Amount : 250 ml

Lab Number : L2407645
 Project Number : 457205
 Date Collected : 02/09/24 15:24
 Date Received : 02/09/24
 Date Analyzed : 02/15/24 21:39
 Dilution Factor : 1
 Analyst : JMB
 Instrument ID : AIRLAB17
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
106-46-7	1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
95-50-1	1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
120-82-1	1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--	U
87-68-3	Hexachlorobutadiene	ND	0.200	--	ND	2.13	--	U

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3

Results Summary Form 1 Volatile Organics in Air

Client : TRC Environmental Corp	Lab Number : L2407645
Project Name : K710 IAQ	Project Number : 457205
Lab ID : L2407645-03	Date Collected : 02/09/24 14:02
Client ID : TRC-IA-03	Date Received : 02/09/24
Sample Location : 168 8TH STREET, BROOKLYN, NY	Date Analyzed : 02/15/24 22:57
Sample Matrix : AIR	Dilution Factor : 1
Analytical Method : 48,TO-15	Analyst : JMB
Lab File ID : R1738657	Instrument ID : AIRLAB17
Sample Amount : 250 ml	GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
75-71-8	Dichlorodifluoromethane	0.512	0.200	--	2.53	0.989	--	
74-87-3	Chloromethane	0.502	0.200	--	1.04	0.413	--	
76-14-2	Freon-114	ND	0.200	--	ND	1.40	--	U
106-99-0	1,3-Butadiene	ND	0.200	--	ND	0.442	--	U
74-83-9	Bromomethane	ND	0.200	--	ND	0.777	--	U
75-00-3	Chloroethane	ND	0.200	--	ND	0.528	--	U
64-17-5	Ethanol	7.54	5.00	--	14.2	9.42	--	
593-60-2	Vinyl bromide	ND	0.200	--	ND	0.874	--	U
67-64-1	Acetone	2.43	1.00	--	5.77	2.38	--	
75-69-4	Trichlorofluoromethane	0.239	0.200	--	1.34	1.12	--	
67-63-0	Isopropanol	0.775	0.500	--	1.91	1.23	--	
75-65-0	Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--	U
75-09-2	Methylene chloride	ND	0.500	--	ND	1.74	--	U
107-05-1	3-Chloropropene	ND	0.200	--	ND	0.626	--	U
75-15-0	Carbon disulfide	ND	0.200	--	ND	0.623	--	U
76-13-1	Freon-113	ND	0.200	--	ND	1.53	--	U
156-60-5	trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--	U
75-34-3	1,1-Dichloroethane	ND	0.200	--	ND	0.809	--	U
1634-04-4	Methyl tert butyl ether	ND	0.200	--	ND	0.721	--	U
78-93-3	2-Butanone	ND	0.500	--	ND	1.47	--	U
141-78-6	Ethyl Acetate	ND	0.500	--	ND	1.80	--	U
67-66-3	Chloroform	ND	0.200	--	ND	0.977	--	U
109-99-9	Tetrahydrofuran	ND	0.500	--	ND	1.47	--	U
107-06-2	1,2-Dichloroethane	ND	0.200	--	ND	0.809	--	U
110-54-3	n-Hexane	ND	0.200	--	ND	0.705	--	U
71-43-2	Benzene	ND	0.200	--	ND	0.639	--	U

M2/19/24



3

Results Summary Form 1 Volatile Organics in Air

Client : TRC Environmental Corp	Lab Number : L2407645
Project Name : K710 IAQ	Project Number : 457205
Lab ID : L2407645-03	Date Collected : 02/09/24 14:02
Client ID : TRC-IA-03	Date Received : 02/09/24
Sample Location : 168 8TH STREET, BROOKLYN, NY	Date Analyzed : 02/15/24 22:57
Sample Matrix : AIR	Dilution Factor : 1
Analytical Method : 48,TO-15	Analyst : JMB
Lab File ID : R1738657	Instrument ID : AIRLAB17
Sample Amount : 250 ml	GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
110-82-7	Cyclohexane	ND	0.200	--	ND	0.688	--	U
78-87-5	1,2-Dichloropropane	ND	0.200	--	ND	0.924	--	U
75-27-4	Bromodichloromethane	ND	0.200	--	ND	1.34	--	U
123-91-1	1,4-Dioxane	ND	0.200	--	ND	0.721	--	U
540-84-1	2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--	U
142-82-5	Heptane	ND	0.200	--	ND	0.820	--	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
108-10-1	4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
79-00-5	1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--	U
108-88-3	Toluene	0.260	0.200	--	0.980	0.754	--	
591-78-6	2-Hexanone	ND	0.200	--	ND	0.820	--	U
124-48-1	Dibromochloromethane	ND	0.200	--	ND	1.70	--	U
106-93-4	1,2-Dibromoethane	ND	0.200	--	ND	1.54	--	U
108-90-7	Chlorobenzene	ND	0.200	--	ND	0.921	--	U
100-41-4	Ethylbenzene	ND	0.200	--	ND	0.869	--	U
179601-23-1	p/m-Xylene	ND	0.400	--	ND	1.74	--	U
75-25-2	Bromoform	ND	0.200	--	ND	2.07	--	U
100-42-5	Styrene	ND	0.200	--	ND	0.852	--	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--	U
95-47-6	o-Xylene	ND	0.200	--	ND	0.869	--	U
622-96-8	4-Ethyltoluene	ND	0.200	--	ND	0.983	--	U
108-67-8	1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--	U
95-63-6	1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--	U
100-44-7	Benzyl chloride	ND	0.200	--	ND	1.04	--	U
541-73-1	1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U

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Results Summary Form 1 Volatile Organics in Air

Client	: TRC Environmental Corp	Lab Number	: L2407645
Project Name	: K710 IAQ	Project Number	: 457205
Lab ID	: L2407645-03	Date Collected	: 02/09/24 14:02
Client ID	: TRC-IA-03	Date Received	: 02/09/24
Sample Location	: 168 8TH STREET, BROOKLYN, NY	Date Analyzed	: 02/15/24 22:57
Sample Matrix	: AIR	Dilution Factor	: 1
Analytical Method	: 48,TO-15	Analyst	: JMB
Lab File ID	: R1738657	Instrument ID	: AIRLAB17
Sample Amount	: 250 ml	GC Column	: RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
106-46-7	1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
95-50-1	1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
120-82-1	1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--	U
87-68-3	Hexachlorobutadiene	ND	0.200	--	ND	2.13	--	U

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Results Summary Form 1 Volatile Organics in Air

Client : TRC Environmental Corp	Lab Number : L2407645
Project Name : K710 IAQ	Project Number : 457205
Lab ID : L2407645-04	Date Collected : 02/09/24 15:32
Client ID : TRC-AA-01	Date Received : 02/09/24
Sample Location : 168 8TH STREET, BROOKLYN, NY	Date Analyzed : 02/15/24 20:20
Sample Matrix : AIR	Dilution Factor : 1
Analytical Method : 48,TO-15	Analyst : JMB
Lab File ID : R1738653	Instrument ID : AIRLAB17
Sample Amount : 250 ml	GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
75-71-8	Dichlorodifluoromethane	0.499	0.200	--	2.47	0.989	--	
74-87-3	Chloromethane	0.491	0.200	--	1.01	0.413	--	
76-14-2	Freon-114	ND	0.200	--	ND	1.40	--	U
106-99-0	1,3-Butadiene	ND	0.200	--	ND	0.442	--	U
74-83-9	Bromomethane	ND	0.200	--	ND	0.777	--	U
75-00-3	Chloroethane	ND	0.200	--	ND	0.528	--	U
64-17-5	Ethanol	ND	5.00	--	ND	9.42	--	U
593-60-2	Vinyl bromide	ND	0.200	--	ND	0.874	--	U
67-64-1	Acetone	2.04	1.00	--	4.85	2.38	--	
75-69-4	Trichlorofluoromethane	0.228	0.200	--	1.28	1.12	--	
67-63-0	Isopropanol	0.557	0.500	--	1.37	1.23	--	
75-65-0	Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--	U
75-09-2	Methylene chloride	ND	0.500	--	ND	1.74	--	U
107-05-1	3-Chloropropene	ND	0.200	--	ND	0.626	--	U
75-15-0	Carbon disulfide	ND	0.200	--	ND	0.623	--	U
76-13-1	Freon-113	ND	0.200	--	ND	1.53	--	U
156-60-5	trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--	U
75-34-3	1,1-Dichloroethane	ND	0.200	--	ND	0.809	--	U
1634-04-4	Methyl tert butyl ether	ND	0.200	--	ND	0.721	--	U
78-93-3	2-Butanone	ND	0.500	--	ND	1.47	--	U
141-78-6	Ethyl Acetate	ND	0.500	--	ND	1.80	--	U
67-66-3	Chloroform	ND	0.200	--	ND	0.977	--	U
109-99-9	Tetrahydrofuran	ND	0.500	--	ND	1.47	--	U
107-06-2	1,2-Dichloroethane	ND	0.200	--	ND	0.809	--	U
110-54-3	n-Hexane	ND	0.200	--	ND	0.705	--	U
71-43-2	Benzene	ND	0.200	--	ND	0.639	--	U

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Results Summary Form 1 Volatile Organics in Air

Client : TRC Environmental Corp	Lab Number : L2407645
Project Name : K710 IAQ	Project Number : 457205
Lab ID : L2407645-04	Date Collected : 02/09/24 15:32
Client ID : TRC-AA-01	Date Received : 02/09/24
Sample Location : 168 8TH STREET, BROOKLYN, NY	Date Analyzed : 02/15/24 20:20
Sample Matrix : AIR	Dilution Factor : 1
Analytical Method : 48,TO-15	Analyst : JMB
Lab File ID : R1738653	Instrument ID : AIRLAB17
Sample Amount : 250 ml	GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
110-82-7	Cyclohexane	ND	0.200	--	ND	0.688	--	U
78-87-5	1,2-Dichloropropane	ND	0.200	--	ND	0.924	--	U
75-27-4	Bromodichloromethane	ND	0.200	--	ND	1.34	--	U
123-91-1	1,4-Dioxane	ND	0.200	--	ND	0.721	--	U
540-84-1	2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--	U
142-82-5	Heptane	ND	0.200	--	ND	0.820	--	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
108-10-1	4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
79-00-5	1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--	U
108-88-3	Toluene	ND	0.200	--	ND	0.754	--	U
591-78-6	2-Hexanone	ND	0.200	--	ND	0.820	--	U
124-48-1	Dibromochloromethane	ND	0.200	--	ND	1.70	--	U
106-93-4	1,2-Dibromoethane	ND	0.200	--	ND	1.54	--	U
108-90-7	Chlorobenzene	ND	0.200	--	ND	0.921	--	U
100-41-4	Ethylbenzene	ND	0.200	--	ND	0.869	--	U
179601-23-1	p/m-Xylene	ND	0.400	--	ND	1.74	--	U
75-25-2	Bromoform	ND	0.200	--	ND	2.07	--	U
100-42-5	Styrene	ND	0.200	--	ND	0.852	--	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--	U
95-47-6	o-Xylene	ND	0.200	--	ND	0.869	--	U
622-96-8	4-Ethyltoluene	ND	0.200	--	ND	0.983	--	U
108-67-8	1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--	U
95-63-6	1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--	U
100-44-7	Benzyl chloride	ND	0.200	--	ND	1.04	--	U
541-73-1	1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U

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Results Summary Form 1 Volatile Organics in Air

Client : TRC Environmental Corp
 Project Name : K710 IAQ
 Lab ID : L2407645-04
 Client ID : TRC-AA-01
 Sample Location : 168 8TH STREET, BROOKLYN, NY
 Sample Matrix : AIR
 Analytical Method : 48,TO-15
 Lab File ID : R1738653
 Sample Amount : 250 ml

Lab Number : L2407645
 Project Number : 457205
 Date Collected : 02/09/24 15:32
 Date Received : 02/09/24
 Date Analyzed : 02/15/24 20:20
 Dilution Factor : 1
 Analyst : JMB
 Instrument ID : AIRLAB17
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
106-46-7	1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
95-50-1	1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
120-82-1	1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--	U
87-68-3	Hexachlorobutadiene	ND	0.200	--	ND	2.13	--	U

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**Results Summary
Form 1
Volatile Organics in Air by SIM**

Client : TRC Environmental Corp	Lab Number : L2407645
Project Name : K710 IAQ	Project Number : 457205
Lab ID : L2407645-01	Date Collected : 02/09/24 15:44
Client ID : TRC-IA-01	Date Received : 02/09/24
Sample Location : 168 8TH STREET, BROOKLYN, NY	Date Analyzed : 02/15/24 20:59
Sample Matrix : AIR	Dilution Factor : 1
Analytical Method : 48,TO-15-SIM	Analyst : JMB
Lab File ID : R1738654_EV2	Instrument ID : AIRLAB17
Sample Amount : 250 ml	GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
75-01-4	Vinyl chloride	ND	0.020	--	ND	0.051	--	U
75-35-4	1,1-Dichloroethene	ND	0.020	--	ND	0.079	--	U
156-59-2	cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--	U
71-55-6	1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--	U
56-23-5	Carbon tetrachloride	0.075	0.020	--	0.472	0.126	--	
79-01-6	Trichloroethene	ND	0.020	--	ND	0.107	--	U
127-18-4	Tetrachloroethene	0.037	0.020	--	0.251	0.136	--	

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2

Results Summary Form 1 Volatile Organics in Air by SIM

Client	: TRC Environmental Corp	Lab Number	: L2407645
Project Name	: K710 IAQ	Project Number	: 457205
Lab ID	: L2407645-02	Date Collected	: 02/09/24 15:24
Client ID	: TRC-IA-02	Date Received	: 02/09/24
Sample Location	: 168 8TH STREET, BROOKLYN, NY	Date Analyzed	: 02/15/24 21:39
Sample Matrix	: AIR	Dilution Factor	: 1
Analytical Method	: 48,TO-15-SIM	Analyst	: JMB
Lab File ID	: R1738655_EV2	Instrument ID	: AIRLAB17
Sample Amount	: 250 ml	GC Column	: RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
75-01-4	Vinyl chloride	ND	0.020	--	ND	0.051	--	U
75-35-4	1,1-Dichloroethene	ND	0.020	--	ND	0.079	--	U
156-59-2	cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--	U
71-55-6	1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--	U
56-23-5	Carbon tetrachloride	0.079	0.020	--	0.497	0.126	--	
79-01-6	Trichloroethene	ND	0.020	--	ND	0.107	--	U
127-18-4	Tetrachloroethene	0.047	0.020	--	0.319	0.136	--	

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3

Results Summary Form 1 Volatile Organics in Air by SIM

Client	: TRC Environmental Corp	Lab Number	: L2407645
Project Name	: K710 IAQ	Project Number	: 457205
Lab ID	: L2407645-03	Date Collected	: 02/09/24 14:02
Client ID	: TRC-IA-03	Date Received	: 02/09/24
Sample Location	: 168 8TH STREET, BROOKLYN, NY	Date Analyzed	: 02/15/24 22:57
Sample Matrix	: AIR	Dilution Factor	: 1
Analytical Method	: 48,TO-15-SIM	Analyst	: JMB
Lab File ID	: R1738657_EV2	Instrument ID	: AIRLAB17
Sample Amount	: 250 ml	GC Column	: RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
75-01-4	Vinyl chloride	ND	0.020	--	ND	0.051	--	U
75-35-4	1,1-Dichloroethene	ND	0.020	--	ND	0.079	--	U
156-59-2	cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--	U
71-55-6	1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--	U
56-23-5	Carbon tetrachloride	0.081	0.020	--	0.510	0.126	--	
79-01-6	Trichloroethene	ND	0.020	--	ND	0.107	--	U
127-18-4	Tetrachloroethene	0.037	0.020	--	0.251	0.136	--	

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4

Results Summary
Form 1
Volatile Organics in Air by SIM

Client	: TRC Environmental Corp	Lab Number	: L2407645
Project Name	: K710 IAQ	Project Number	: 457205
Lab ID	: L2407645-04	Date Collected	: 02/09/24 15:32
Client ID	: TRC-AA-01	Date Received	: 02/09/24
Sample Location	: 168 8TH STREET, BROOKLYN, NY	Date Analyzed	: 02/15/24 20:20
Sample Matrix	: AIR	Dilution Factor	: 1
Analytical Method	: 48,TO-15-SIM	Analyst	: JMB
Lab File ID	: R1738653_EV2	Instrument ID	: AIRLAB17
Sample Amount	: 250 ml	GC Column	: RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
75-01-4	Vinyl chloride	ND	0.020	--	ND	0.051	--	U
75-35-4	1,1-Dichloroethene	ND	0.020	--	ND	0.079	--	U
156-59-2	cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--	U
71-55-6	1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--	U
56-23-5	Carbon tetrachloride	0.078	0.020	--	0.491	0.126	--	
79-01-6	Trichloroethene	ND	0.020	--	ND	0.107	--	U
127-18-4	Tetrachloroethene	0.031	0.020	--	0.210	0.136	--	

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Attachment 9
Work Order

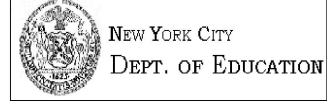
Facility: DSF DIVISION OF SCHOOL FACILITIES
 Unit : K Project :
 W/O Type: CO Priority: 71 W/O Dspln: H
 Planner : HSIDDIQ SIDDIQUI
 W/O Title : SSDS - ANNUAL INSPECTION 2024
 W/O Task Title: 77/15/K710 - SSDS ANNUAL INSPECTION
 Written To : PRE-K CENTER @ 8 TH STREET
 Task Dspln : Completed By:



Work Order Package

00952065 22

Rpt : TIPMC11
 Date: 08/29/2024



Work Order Task Written To

Facility : DSF	Unit : K	Op Sys : GEO-15
Division : ABLDG K710	Area : ISC4	Sys/Cls: K710
Equipment : ABLDG K710	Component:	
Work Item :	Eqt. List:	Ops Review Reqd: N
Equip. Tag:	Alt:	
UTC :	Tbl/Brkdwn: (Past 12 mo)	
Catalog ID:	Job Type : CO	UCR: GN25
Client/Act:		
Location : K00 00000000 000115 166 8 ST, BROOKLYN, NY 11215		
Cost Centr: G839	Activity :	User Def:
Percentage: 100.000	Acct No. : GL	

Work Order Task Instructions

K710 - SSDS ANNUAL INSPECTION - NYSDEC
 ASSIGNED TO ATC

Contract and Outside Services

Contract	Rel	Vendor	Title
00011082	00625	460399408	77/15/K710 - SSDS ANNUAL INSPECTION - N

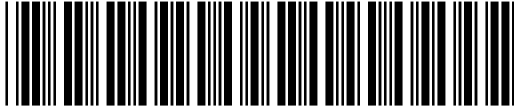
Completion Comments on Work Performed

Completion Comments Required : N

Comments:

Comments:

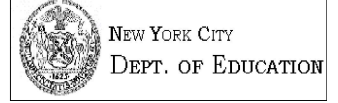
Facility: DSF DIVISION OF SCHOOL FACILITIES
Unit : K Project :
W/O Type: CO Priority: 71 W/O Dspln: H
Planner : HSIDDIQ SIDDIQUI
W/O Title : SSDS - ANNUAL INSPECTION 2024
W/O Task Title: 77/15/K710 - SSDS ANNUAL INSPECTION
Written To : PRE-K CENTER @ 8 TH STREET
Task Dspln : Completed By:



Work Order Package

00952065 22

Rpt : TIPMC11
Date: 08/29/2024



Page: 2

Comments:

Continued on Additional Sheets? : _____