LANGAN

Memorandum

Langan Engineering, Environmental, Surveying and Landscape Architecture, D.P.C.
368 Ninth Avenue, 8th Floor New York, NY 10001 T: 212.479.5400 F: 212.479.5444

To: R. Strang (NYSDEC)

From: Jason J. Hayes, PE, LEED AP (Langan)

Info: D. Dimond, A. Mechanic (Monroe College)
A. Keegan (NYSDOH)
M. Burke, G. Wyka, and K. Wexler (Langan)

Date: March 10, 2026
(Revised May 14, 2026)

Re: Annual Site Inspection and Periodic Review Report – 2025
2409 Jerome Avenue
Bronx, New York
NYSDEC BCP Site No. C203087
Langan Project No. 170390601

INTRODUCTION

This Periodic Review Report (PRR) memorandum summarizes annual site inspection results, including inspection of the composite cover system, completion of an annual vapor intrusion monitoring event (December 2025), and annual review and certification of engineering controls (ECs) and institutional controls (ICs) for the period of January 1, 2025 to March 5, 2026.

Langan Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C. (Langan) was retained by 2409 Jerome, Inc. (the Participant) to observe and document implementation of interim remedial measures at 2409 Jerome Avenue (Block 3199, Lots 106 and 113) in the Bronx, New York (the site). The site is currently enrolled in the New York State (NYS) Brownfield Cleanup Program (BCP) (BCP Site No. C203087), which is administered by the New York State Department of Environmental Conservation (NYSDEC). The Participant signed a Brownfield Cleanup Agreement (BCA) with the NYSDEC on April 3, 2017 to investigate and remediate the site. An interim Site Management Plan (iSMP), submitted to NYSDEC in April 2021 and approved by the NYSDEC on June 10, 2021, is a required element of the remedial program to control exposure to existing contamination so the site can be safely used prior to implementation of the site remedy. The iSMP requires this annual site inspection and periodic review of pre-existing ECs and ICs for the site.

SITE DESCRIPTION AND SITE HISTORY

The site is located at 2409 Jerome Avenue in the Fordham Heights neighborhood of the Bronx, New York and is identified as Block 3199, Lots 106 and 113 on the Bronx Borough Tax Map. The property encompasses an area of about 25,200 square feet (0.58 acres) and is occupied by an

asphalt-paved parking lot (Lot 113) and two 1-story structures used for automotive repair (Lot 106). A site location map is provided as Figure 1.

The site is bound by a 2-story commercial building (2415 Jerome Ave) followed by West Fordham Road to the north, Jerome Avenue to the east, a 2-story academic facility (Ustin Hall) followed by West 184th Street to the south, and three 5-story multifamily residential buildings (2390-2410 Davidson Avenue) followed by Davidson Avenue to the west. A site plan is presented as Figure 2.

The site was historically used as a fuel dispensing station from 1927 to 1989 and for auto repair from 1927 to present day. Several petroleum bulk storage (PBS) tanks are associated with the site including: (1) one decommissioned and closed-in-place 550-gallon waste oil underground storage tank (UST); (2) one in-service 50-gallon transmission fluid aboveground storage tank (AST); (3) 13 closed 550-gallon gasoline USTs; and (4) one closed 4,000-gallon gasoline UST. The 13 closed 550-gallon USTs and one closed 4,000-gallon gasoline UST were decommissioned and removed from the site between 1988 and 1991. The out-of-service 550-gallon waste oil UST was abandoned-in-place between July 29, 2024 and August 1, 2024 in accordance with NYSDEC-approved Interim Remedial Measures Work Plan (IRMWP) and PBS Regulations Title 6 of the New York Codes, Rules, and Regulations (6 NYCRR) Parts 612-614, and applicable federal regulations.

During the 2024 annual inspection, several localized areas of asphalt pavement on-site were observed to be in a condition needing repair. On April 4, 2025, City & County Paving, Corp. (CCPC) of Bronx, New York completed localized removal of damaged asphalt pavement from areas measuring:

- about 60-foot-long by 15-foot-wide in the eastern-central part of the site,
- about 50-foot-long by 15-foot-wide in the southwestern part of the site,
- about 4-foot-long by 3-foot-wide in the central part of the site,
- about 15-foot-long by 3-foot-wide in the southern part of the site, and
- about 20-foot-long by 15-foot-wide in the northwestern part of the site.

Removal extended to a maximum depth of about 3 inches below grade surface (bgs). No underlying soil or subbase aggregate was excavated or removed. A total of 9 tons of broken asphalt pavement was transported to Green Asphalt, an asphalt manufacturing facility, located at 3798 Railroad Ave, Long Island City, New York. Following removal activities, CCPC placed new 2 to 3-inch-thick asphalt pavement and compacted it with a roller in the formerly damaged areas and then applied asphalt sealer at the edges of the new pavement.

SUMMARY OF INSTITUTIONAL CONTROLS

ICs are required by the NYSDEC under the iSMP to maintain and monitor the ECs, prevent exposure to subsurface contamination, and limit the use of the site to commercial or industrial

uses only. Adherence to these ICs will be maintained by completing and submitting a periodic certification of ICs and ECs, limiting use of the site to commercial and industrial uses, and restricting the use of groundwater as a source of potable or process water without necessary water quality treatment as determined by the New York State Department of Health (NYSDOH) or New York City Department of Health and Mental Hygiene (NYCDOHMH).

SUMMARY OF ENGINEERING CONTROLS

The composite cover system serves as a protective barrier that minimizes the risk of exposure to subsurface contamination on both Lots 106 and 113. The system is comprised of an approximately 11-inch-thick concrete slab in the auto repair building (Lot 106) and an approximately 2-inch to 6-inch-thick asphalt pavement system that covers the remainder of the site (Lots 106 and 113). As discussed below, two areas of concrete slab within the auto repair building were observed in need of repair; these repairs to the concrete slab were completed on February 10, 2026.

SUMMARY OF ENGINEERING CONTROLS MONITORING AND INSPECTIONS

Annual Composite Cover System Inspection - Lot 106

Langan completed an annual composite cover site inspection on Lot 106 on December 19, 2025 to document the condition of the composite cover system and to identify potential deficiencies or breaches in the cover system. No breaches to the asphalt pavement on the site that could present a potential exposure pathway between the occupants of the brownfield site and remaining contamination in soil and groundwater were observed at the time of Langan's site inspection.

Two areas (one about 15-foot-long by 2-inch-wide area and one about 2-foot-long by 2-inch-wide area) of the concrete slab cover system inside the auto repair shop were observed in a condition of needing repair. On February 10, 2026, the Archstone Restoration Corp. completed repair of these two areas. These areas were cleaned of debris using hand tools and a shop vacuum, followed by insertion of a foam backer rod into each area. Once filled, the surface was primed and a polyurethane concrete sealant was placed on top of each area. Areas of concrete slab repair are shown on Figure 3.

The site inspection form is provided in Attachment A. Site photographs are included in Attachment B.

Annual Composite Cover System Inspection - Lot 113

Langan completed an annual composite cover site inspection on Lot 113 on December 19, 2025 to document the condition and identify potential deficiencies or breaches in the cover system.

No breaches to the asphalt pavement on the site that could present a potential exposure pathway between the occupants of the brownfield site and remaining contamination in soil and groundwater were observed at the time of Langan's site inspection. The areas of asphalt pavement repaired in April 2025 were observed to be in an acceptable condition. The site inspection form is provided in Attachment A. Site photographs are included in Attachment B.

Annual Soil Vapor Intrusion Monitoring - Lot 106

Previous Installation of Permanent Sub-Slab Vapor Point

One permanent sub-slab vapor point (SSV01) was installed on December 31, 2021 during the first sampling event in accordance with the NYSDOH's *Final Guidance for Evaluating Soil Vapor Intrusion in the State of New York* (October 2006). The sub-slab vapor point was installed below the existing auto repair building slab using a hammer drill to about 2 inches beneath the base of the slab (about 1 foot below grade surface). The vapor collection point consists of a 2-inch-long stainless steel probe and inert sample tubing (i.e., polyethylene). The annulus around the probe was filled with a clean, course sand pack followed by a hydrated bentonite seal to the top of the floor slab.

Sub-Slab Vapor and Indoor Air Sampling

One sub-slab vapor sample (SSV01), co-located indoor air sample (IA01), and one ambient air sample (AA01) were collected concurrently over an 8-hour sampling period on December 19, 2025. The co-located indoor air sample was collected concurrently at a height of about 3 to 5 feet above the ground surface to simulate the breathing zone. An ambient air sample was collected on the eastern side of the auto repair building at a height of about 3 to 5 feet above ground surface to evaluate potential outdoor air interferences. Outdoor air infiltration was minimized by closing the garage doors (as practical) to the auto repair shop during the sub-slab vapor and indoor air sampling. The sub-slab, indoor air, and ambient air samples were collected into laboratory-supplied, batch-certified, 6-L Summa® canisters calibrated for 8 hours of sampling and analyzed for TO-15 VOCs.

A product inventory was completed before sampling to document petroleum-based products, solvents, chemicals, and other materials/products and volatile chemicals that may influence the sample results. Several products, including antifreeze, brake and parts cleaners, brake fluid, isopropyl alcohol, degreasers, and lubricating and motor oils, were identified in the vicinity of the indoor air sample and were catalogued. The products were not removed during sampling at the request of the tenant. The product inventory was performed to the extent practicable, but all products stored in the garage were not accessible and may not have been identified during the inspection. While no products containing chlorinated VOCs (CVOCs) were identified during the inventory, products containing tetrachloroethene (PCE) have been found in the auto repair

building during previous site inspections. A copy of the NYSDOH indoor air quality (IAQ) questionnaire and product inventory are included as Attachment F.

Samples were analyzed for volatile organic compounds (VOC) via United States Environmental Protection Agency (USEPA) Method TO-15 by York Analytical Laboratories Inc. (York), a NYSDOH Environmental Laboratory Approval Program (ELAP)-certified laboratory (ELAP ID # 10854) located in Stratford, Connecticut. Samples were collected in accordance with NYSDOH guidance and the procedures set forth in Langan's April 2021 iSMP.

The analytical data was validated and submitted to the NYSDEC as an electronic data deliverable (EDD). Sub-slab, indoor air, and ambient air sample locations are shown on Figure 3. Sampling logs are included as Attachment C. The data usability summary report is included as Attachment D. The laboratory analytical data package is included as Attachment E.

Sub-Slab Vapor and Indoor Air Sampling Results

The analytical results from the 2025 heating season sampling event were evaluated using the NYSDOH Decision Matrices and compared to the NYSDOH Air Guideline Values (AGV) as set forth in the NYSDOH October 2006 Guidance for Evaluating Soil Vapor Intrusion in the State of New York and subsequent updates (2013, 2015, 2017, and February 2024). The recommended actions derived from the matrices are summarized in the following table. Tabulated analytical results from the sampling event are presented in Table 2.

Sample Location (C203087)	Compound	Sub-Slab Vapor Concentration (µg/m^3)	Indoor Air Concentration (µg/m^3)	Ambient Air Concentration (µg/m^3)	NYSDOH AGVs (µg/m^3)	NYSDOH Matrix Recommended Action
SSV01/ IA01/AA01	1,1,1-trichloroethane	ND	ND	ND	NS	No Further Action
	1,1-dichloroethene	ND	ND	ND	NS	No Further Action
	1,2,4-trimethylbenzene	8.4	5.2	1.2	NS	No Further Action
	1,3,5-trimethylbenzene	2.6	1.3	ND	NS	No Further Action
	2,2,4-trimethylpentane	ND	12	2.4	NS	Identify Source(s) or Resample or Mitigate
	Benzene	0.53	4.9	2.1	NS	No Further Action
	Carbon tetrachloride	ND	0.51	0.53	NS	No Further Action
	cis-1,2-dichloroethene	ND	ND	ND	NS	No Further Action
	Cyclohexane	0.57	5.7	0.87	NS	No Further Action
	Ethylbenzene	1.6	4.4	1.2	NS	No Further Action
	Heptane	ND	35	ND	NS	Identify Source(s) or Resample or Mitigate
	Hexane	ND	8.4	2.4	NS	No Further Action
	Methylene chloride	ND	ND	0.5	60	No Further Action
	M,P-Xylene	8	14	3.4	NS	No Further Action
	Naphthalene	ND	0.89	ND	NS	No Further Action
	O-Xylene	4.3	5.4	1.3	NS	No Further Action
	PCE	98	ND	ND	30	No Further Action
	Toluene	10	170	13	NS	Identify Source(s) or Resample or Mitigate
	Trichloroethylene (TCE)	0.89	ND	ND	2	No Further Action
	Vinyl Chloride	ND	ND	ND	NS	No Further Action

µg/m^3 = micrograms per cubic meter; NS = No Standard; ND = Not Detected

Of the 20 VOCs included in the NYSDOH Decision Matrices, 10 were detected in sub-slab vapor, 13 were detected in indoor air, and 11 were detected in ambient air. The sub-slab vapor and indoor air concentrations of three VOCs (2,2,4-trimethylpentane, heptane, and toluene) result in a recommendation of "identify the source(s) or resample or mitigate" when evaluated using the NYSDOH Decision Matrices D, E, and F. The sub-slab and indoor air concentrations for the remainder of the VOCs detected result in a recommendation of "no further action' when evaluated using the NYSDOH Decision Matrices. None of the three VOCs with NYSDOH AGVs were detected in indoor air.

IC/EC COMPLIANCE REPORT

Institutional Controls

The ICs for the site are documented in the iSMP and include maintaining and monitoring the ECs, preventing exposure to subsurface contamination, restricting site uses to commercial or industrial uses, and restricting groundwater use.

On January 14, 2026, Langan submitted a Freedom of Information Law (FOIL) request to the NYSDEC, NYSDOH, and NYCDOHMH to verify that no well or water withdrawal permits were issued for the site in 2025. No responses from the NYSDEC, NYSDOH or NYCDOHMH have been received as of the date of this PRR. Copies of the FOIL requests and any acknowledgement letters or correspondence are included in Appendix G.

Using the New York City Department of Finance (DOF) online Automated City Register Information System (ACRIS), Langan determined no real and/or personal property transfers or modifications to the deeds were made in 2025.

Using the New York City Department of Buildings (DOB) online Building Information System (BIS), Langan determined no work permits were filed for the site in 2025.

The ICs remain in place and are effective and no changes are recommended.

Engineering Controls

The ECs for the site include a pre-existing composite cover system monitored through annual inspections and completion of an annual soil vapor intrusion monitoring event. The composite cover system serves as a protective barrier minimizing the risk of exposure to subsurface contamination on both Lots 106 and 113. The system is comprised of an approximately 11-inch-thick concrete slab in the auto repair building (Lot 106) and an approximately 2-inch to 6-inch-thick asphalt pavement system that covers the remainder of the site (Lots 106 and 113). The areas of asphalt pavement repaired in April 2025 were observed to be in an acceptable condition. No breaches to the cover system that could present a potential exposure pathway between the occupants of the brownfield site and remaining contamination in soil and groundwater were observed at the time of Langan's site inspection; however, two localized areas of the building concrete slab cover system were observed in a condition of needing repair. These two areas were repaired on February 10, 2026.

Sub-slab vapor and indoor air concentrations of toluene result in a recommendation of "identify the source(s) or resample or mitigate" according to the NYSDOH decision matrices. There is no NYSDOH AGV for toluene. For reference, the concentration of toluene in indoor air was below the OSHA 8-hour time-weighted average permissible exposure limit (753,000 µg/m^3) when used in the workplace.

Based on the annual monitoring results, soil vapor intrusion risk appears low. The indoor air sample was collected in general accordance with the NYSDOH guidance, which includes collection of indoor air samples from indoor spaces with closed windows and doors. The site building is not operated with closed windows and doors; rather, it is operated as an automotive repair facility and when occupied the roll-up doors are open. Therefore, the indoor air data do not reflect conditions when the doors and windows of the building are closed. Further, indoor air quality is affected by the automotive repair operations and the use of products containing hydrocarbons (including toluene).

The ECs remain in place and are effective and no changes are recommended.

CONCLUSIONS AND RECOMMENDATIONS

The findings and conclusions of the annual site inspection and annual review of ICs and ECs are as follows:

- Two localized areas of the concrete slab were observed to be in condition of needing repair. The concrete slab repairs, including the cleaning, filling, and sealing of the two areas, were completed on February 10, 2026.
- Detected sub-slab vapor and indoor air concentrations of three VOCs (2,2,4-trimethylpentane, heptane, and toluene) result in recommended action to identify source(s) or resample or mitigate according to the NYSDOH Decision Matrices. The concentrations of these VOCs were higher in the indoor air sample than the sub-slab vapor sample, indicating an indoor source(s). The presence of these VOCs in indoor air is attributed to the automotive repair operations.
- Annual site and composite cover system inspections and soil vapor intrusion monitoring, and indoor air sampling should continue in accordance with the iSMP.
- The IC and ECs remain in place and are effective and no changes are recommended apart from the scheduled repairs to the concrete slab cover system.

CERTIFICATION

I certify that the following statements are true:

- *I am a Professional Engineer.*
- *The annual site inspection was completed on December 19, 2025.*
- *The inspection of the site to confirm the effectiveness of the institutional and engineering controls required by the remedial program was performed under my direction.*
- *The institutional controls and engineering controls employed at this site are unchanged from the date the control was put in place, or last approved by the Department, apart from the condition of the concrete slab as noted in this report.*
- *Nothing has occurred that would impair the ability of the controls to protect the public health and environment.*
- *Nothing has occurred that would constitute a violation or failure to comply with the interim site management plan for these controls.*
- *Access to the site will continue to be provided to the Department to evaluate the continued maintenance of these controls.*
- *Use of the site is compliant with the iSMP and NYSDEC requirements.*
- *The engineering control systems are performing as designed and are effective. Repairs to the concrete slab cover system were completed on February 10, 2026.*
- *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.*
- *The information presented in this report is accurate and complete.*

I certify that information and statements in this certification form 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, Jason J. Hayes (P.E. No. 089491), of Langan, have been authorized and designated by the site owner to sign this certification for the site."

Jason J. Hayes, PE, LEED AP
Name

Signature

STATE OF NEW YORK · JASON JAMES HAYES · 089491 · LICENSED PROFESSIONAL ENGINEER

3-10-2026
Date

LANGAN

LIST OF FIGURES

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Figure 2	Site Plan
Figure 3	Composite Cover and Sample Location Map

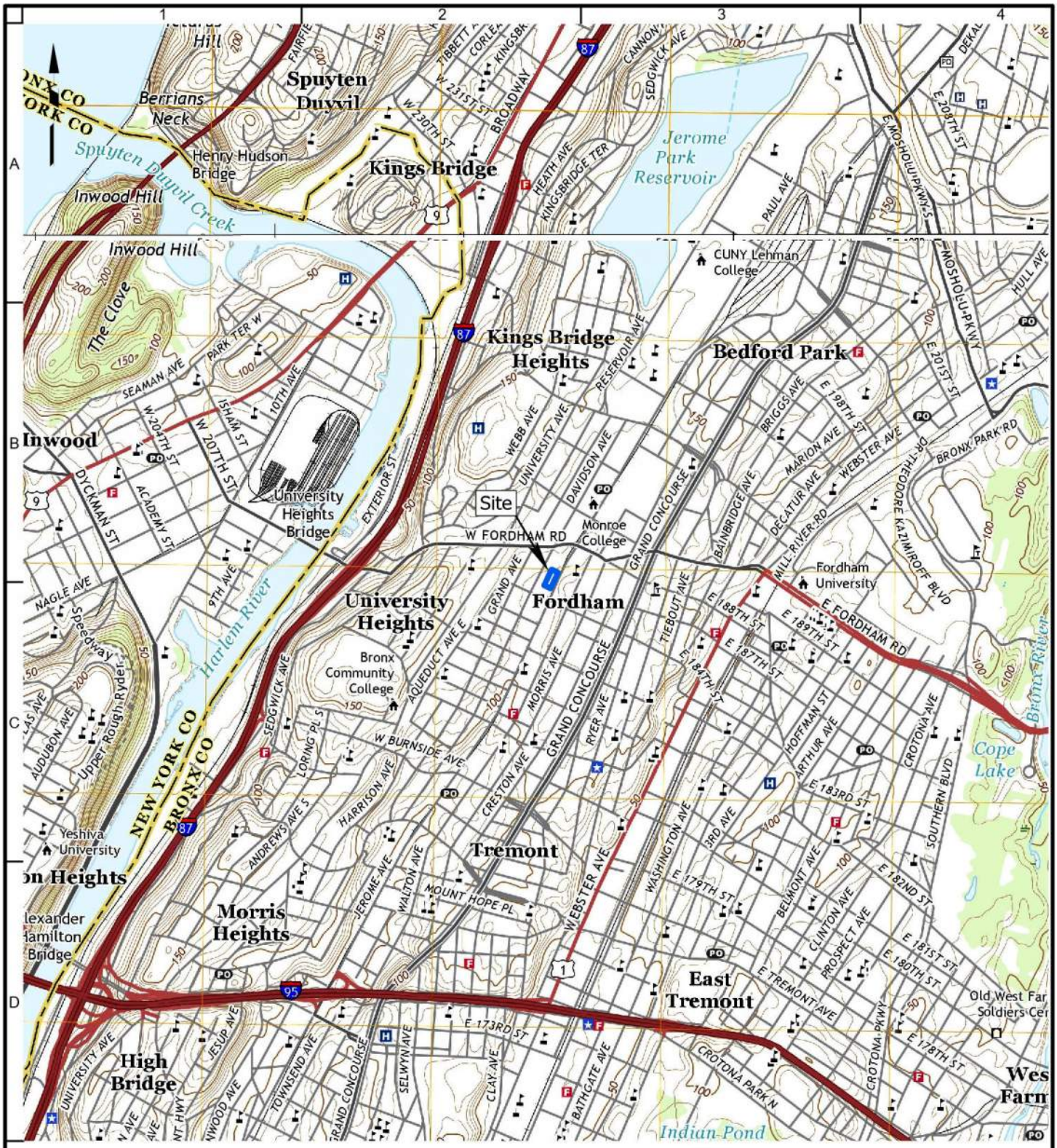
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Table 2	Sub-Slab and Air Sample Analytical Results

LIST OF ATTACHMENTS

Attachment A	Site Inspection Form
Attachment B	Photographic Log
Attachment C	Sub-Slab Vapor and Indoor Air Sampling Logs
Attachment D	Data Usability Summary Report
Attachment E	Laboratory Analytical Report
Attachment F	NYSDOH IAQ Questionnaire and Product Inventory
Attachment G	FOIL Requests and Acknowledgement Letters

FIGURES



WARNING: It is a violation of the NYS Education Law Article 145 for any person, unless acting under the direction of a licensed professional engineer, land surveyor or geologist, to alter this item in any way.

NOTES:
1. BASEMAP ADAPTED FROM UNITED STATES GEOLOGICAL SURVEY (USGS) 7.5-MINUTE SERIES TOPOGRAPHICAL MAPS, CENTRAL PARK, YONKERS, NEW YORK, QUADRANGLE, DATED 2016.

LANGAN
368 Ninth Avenue, 8th Floor
New York, NY 10001
T: 212.479.5400 F: 212.479.5444 www.langan.com

Langan Engineering & Environmental Services, Inc.
Langan Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C.
Langan International LLC
Collectively known as Langan

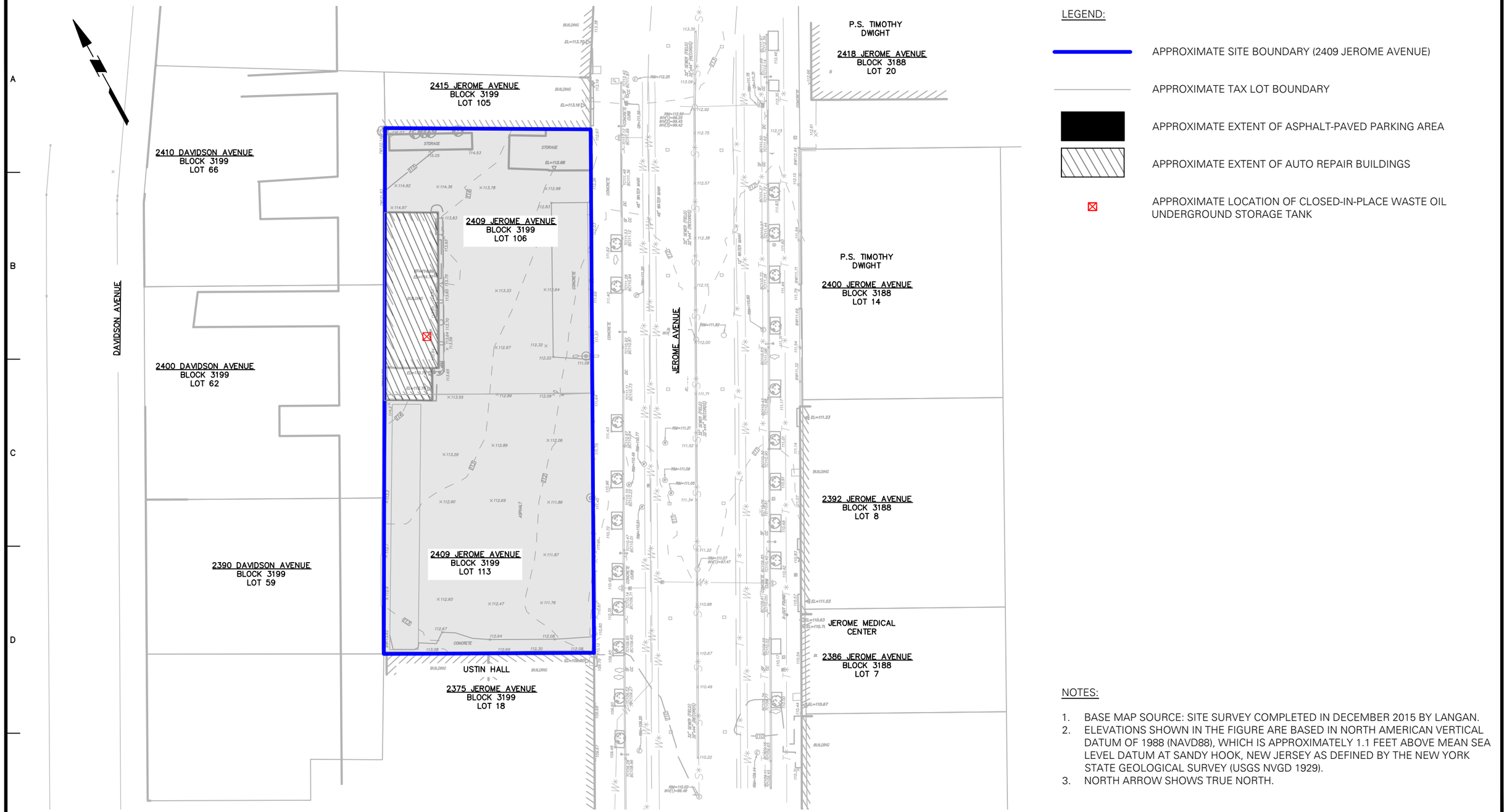
Project
2409 JEROME AVENUE
BLOCK No. 3199, LOT No. 106 & 1113
NEW YORK
BRONX NEW YORK

Figure Title
SITE LOCATION MAP

Project No. 170390601	Figure No. 1
Date 1/31/2022	
Scale 1"=2,000'	
Drawn By TZ	
Submission Date	Sheet 1 of 3

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LEGEND:

- APPROXIMATE SITE BOUNDARY (2409 JEROME AVENUE)
- APPROXIMATE TAX LOT BOUNDARY
- APPROXIMATE EXTENT OF ASPHALT-PAVED PARKING AREA
- APPROXIMATE EXTENT OF AUTO REPAIR BUILDINGS
- APPROXIMATE LOCATION OF CLOSED-IN-PLACE WASTE OIL UNDERGROUND STORAGE TANK

NOTES:

1. BASE MAP SOURCE: SITE SURVEY COMPLETED IN DECEMBER 2015 BY LANGAN.
2. ELEVATIONS SHOWN IN THE FIGURE ARE BASED IN NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88), WHICH IS APPROXIMATELY 1.1 FEET ABOVE MEAN SEA LEVEL DATUM AT SANDY HOOK, NEW JERSEY AS DEFINED BY THE NEW YORK STATE GEOLOGICAL SURVEY (USGS NVGD 1929).
3. NORTH ARROW SHOWS TRUE NORTH.

WARNING: IT IS A VIOLATION OF THE NYS EDUCATION LAW ARTICLE 145 FOR ANY PERSON, UNLESS HE IS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS ITEM IN ANY WAY.

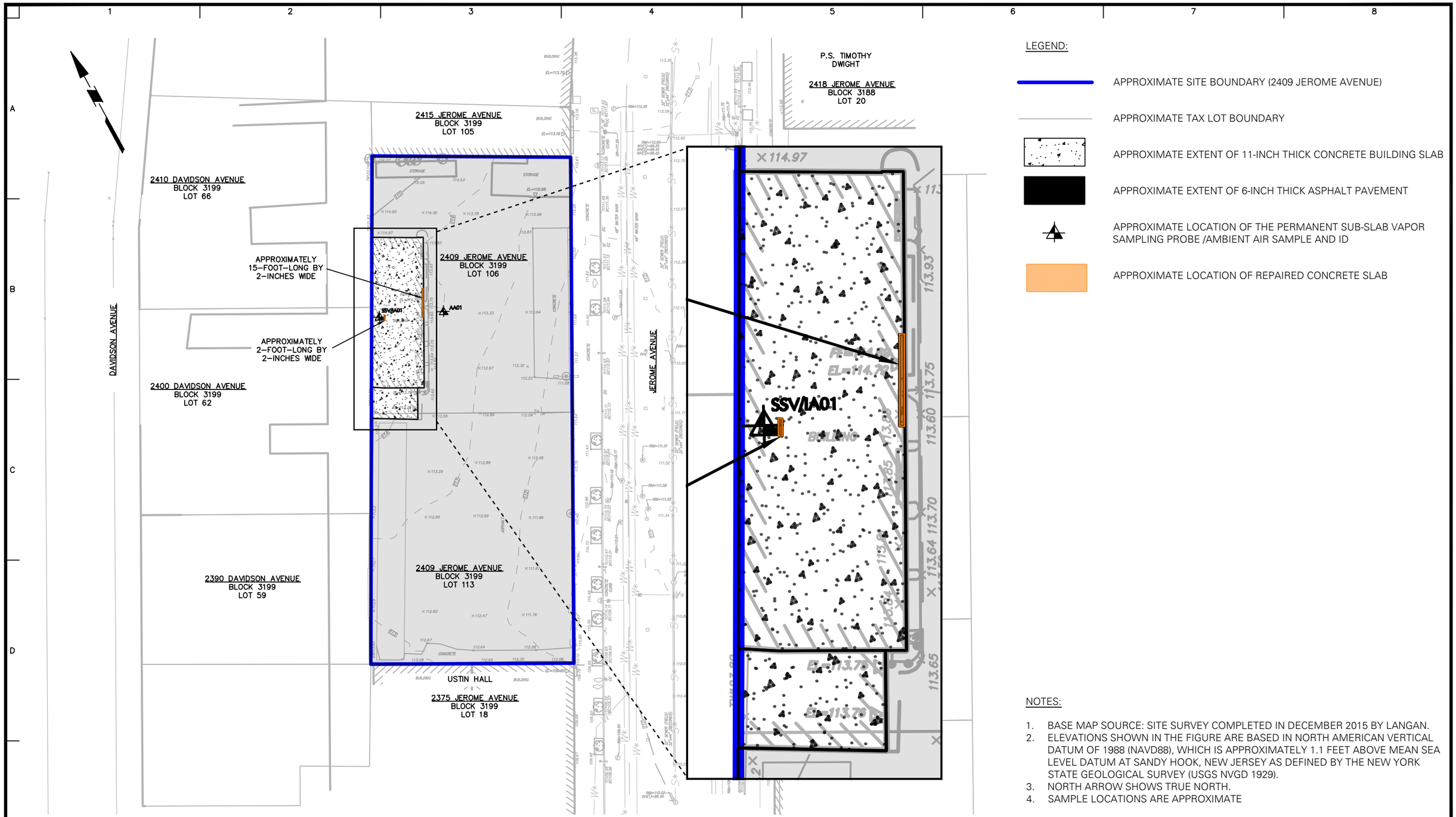
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LANGAN
Langan Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C.
21 Penn Plaza, 360 West 31st Street, 8th Floor
New York, NY 10001
T: 212.479.5400 F: 212.479.5444 www.langan.com

Project	Figure Title	Project No.	Figure No.
2409 JEROME AVENUE BLOCK No. 3199, LOT Nos. 106 & 113 BRONX NEW YORK	SITE PLAN	170390601 Date 1/26/2021 Drawn By LH Checked By WK	2

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Filename: \\langan.com\data\NY\data6\170390601\Cadd Data - 170390601\SheetFiles\Environmental\iSMP\Figure 2 - Site Plan.dwg Date: 1/28/2026 Time: 16:21 User: vkanagaratnam Style Table: Langan.stb Layout: ANSIB-BL



NOTES:

1. BASE MAP SOURCE: SITE SURVEY COMPLETED IN DECEMBER 2015 BY LANGAN.
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3. NORTH ARROW SHOWS TRUE NORTH.
4. SAMPLE LOCATIONS ARE APPROXIMATE

WARNING: IT IS A VIOLATION OF THE NYS EDUCATION LAW ARTICLE 145 FOR ANY PERSON, UNLESS HE IS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS ITEM IN ANY WAY.

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Langan Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C.
21 Penn Plaza, 360 West 31st Street, 8th Floor
New York, NY 10001
T: 212.479.5400 F: 212.479.5444 www.langan.com

Project	2409 JEROME AVENUE BLOCK No. 3199, LOT Nos. 106 & 113 BRONX NEW YORK
Figure Title	COMPOSITE COVER AND SAMPLE LOCATION MAP
Project No.	170390601
Date	2/3/2025
Drawn By	VK
Checked By	GW
Figure No.	3

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Filename: \\langan.com\data\NY\data6\170390601\Cadd Data - 170390601\SheetFiles\Environmental\2026 PRR\Figure 3 - Composite Cover and Sample Location Map.dwg Date: 1/28/2026 Time: 16:31 User: vkanagaratnam Style Table: Langan.stb Layout: ANSIB-BL

TABLES

Table 1
Periodic Review Report
Sample Summary

2409 Jerome Avenue
Bronx, New York
Langan Project No.: 170390601

Location/Type	Type	Sample ID	Target Material	Sample Interval	Sample Date/Time	Analysis
Soil Vapor						
Sub-Slab Soil Vapor	8-hour	SSV01_121925	Below Slab	1 foot bgs	12/19/2025, 9:07 - 16:27	VOCs via USEPA Method TO-15
Indoor Air	8-hour	IA01_121925	Indoor Air	5 feet ags	12/19/2025, 9:07 - 16:15	
Ambient Air	8-hour	AA01_121925	Ambient Air	3 feet ags	12/19/2025, 9:10 - 16:33	

1. TO-15 = United States Environmental Protection Agency Method TO-15
2. VOC = Volatile Organic Compound
3. USEPA = United States Environmental Protection Agency
4. bgs = below grade surface
5. ags = above grade surface

Table 2
Periodic Review Report
Soil Vapor Sample Analytical Results

2409 Jerome Avenue
Bronx, New York
NYSDEC BCP Site No.: C203087
Langan Project No.: 170390601

Analyte	CAS Number	NYSDOH AGVs	Location	AA01	IA01_SSV01	
			Sample Name	AA01_121925	IA01_121925	SSV01_121925
			Sample Date	12/19/2025	12/19/2025	12/19/2025
			Sample Type	AA	IA	SSV
			Unit	Result	Result	Result
Volatile Organic Compounds						
1,1,1,2-Tetrachloroethane	630-20-6	NS	ug/m3	<0.58 U	<0.61 U	<1.1 U
1,1,1-Trichloroethane	71-55-6	NS	ug/m3	<0.46 U	<0.49 U	<0.91 U
1,1,2,2-Tetrachloroethane	79-34-5	NS	ug/m3	<0.58 U	<0.61 U	<1.1 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	NS	ug/m3	<0.64 U	<0.69 U	<1.3 U
1,1,2-Trichloroethane	79-00-5	NS	ug/m3	<0.46 U	<0.49 U	<0.91 U
1,1-Dichloroethane	75-34-3	NS	ug/m3	<0.34 U	<0.36 U	<0.67 U
1,1-Dichloroethene	75-35-4	NS	ug/m3	<0.17 U	<0.18 U	<0.33 U
1,2,4-Trichlorobenzene	120-82-1	NS	ug/m3	<31 U	<33 U	<62 U
1,2,4-Trimethylbenzene	95-63-6	NS	ug/m3	1.2 D	5.2 D	8.4 D
1,2-Dibromoethane (Ethylene Dibromide)	106-93-4	NS	ug/m3	<0.65 U	<0.69 U	<1.3 U
1,2-Dichlorobenzene	95-50-1	NS	ug/m3	<0.51 U	<0.54 U	<1 U
1,2-Dichloroethane	107-06-2	NS	ug/m3	<0.34 U	<0.36 U	<0.67 U
1,2-Dichloropropane	78-87-5	NS	ug/m3	<0.39 U	<0.41 U	<0.77 U
1,2-Dichlorotetrafluoroethane	76-14-2	NS	ug/m3	<0.59 U	<0.63 U	<1.2 U
1,3,5-Trimethylbenzene (Mesitylene)	108-67-8	NS	ug/m3	<0.41 U	1.3 D	2.6 D
1,3-Butadiene	106-99-0	NS	ug/m3	<0.56 U	0.61 D	<1.1 U
1,3-Dichlorobenzene	541-73-1	NS	ug/m3	<0.51 U	<0.54 U	<1 U
1,3-Dichloropropane	142-28-9	NS	ug/m3	<0.39 U	<0.41 U	<0.77 U
1,4-Dichlorobenzene	106-46-7	NS	ug/m3	<0.51 U	<0.54 U	<1 U
1,4-Dioxane (P-Dioxane)	123-91-1	NS	ug/m3	<1.5 U	<1.6 U	<3 U
2,2,4-Trimethylpentane	540-84-1	NS	ug/m3	2.4 D	12 D	<0.39 U
2-Hexanone (MBK)	591-78-6	NS	ug/m3	<0.69 U	<0.73 U	<1.4 U
4-Ethyltoluene	622-96-8	NS	ug/m3	<0.41 U	<0.44 U	<0.82 U
Acetone	67-64-1	NS	ug/m3	38 D	680 D	10 JD
Acrolein	107-02-8	NS	ug/m3	<0.19 U	<0.21 U	1.6 D
Acrylonitrile	107-13-1	NS	ug/m3	<9.1 U	<9.7 U	<18 U
Allyl Chloride (3-Chloropropene)	107-05-1	NS	ug/m3	<1.3 U	<1.4 U	<2.6 U
Benzene	71-43-2	NS	ug/m3	2.1 D	4.9 D	0.53 D
Benzyl Chloride	100-44-7	NS	ug/m3	<11 U	<12 U	<21 U
Bromodichloromethane	75-27-4	NS	ug/m3	<0.56 U	<0.6 U	<1.1 U
Bromoethene	593-60-2	NS	ug/m3	<0.37 U	<0.39 U	<0.73 U
Bromoform	75-25-2	NS	ug/m3	<0.87 U	<0.93 U	<1.7 U
Bromomethane	74-83-9	NS	ug/m3	<0.33 U	<0.35 U	<0.64 U
Carbon Disulfide	75-15-0	NS	ug/m3	<0.26 U	<0.28 U	<0.52 U
Carbon Tetrachloride	56-23-5	NS	ug/m3	0.53 D	0.51 D	<0.31 U
Chlorobenzene	108-90-7	NS	ug/m3	<0.39 U	<0.41 U	<0.76 U
Chloroethane	75-00-3	NS	ug/m3	<0.22 U	<0.24 U	<0.44 U
Chloroform	67-66-3	NS	ug/m3	<0.41 U	<0.44 U	0.81 D
Chloromethane	74-87-3	NS	ug/m3	1.2 D	1.2 D	0.34 D
Cis-1,2-Dichloroethene	156-59-2	NS	ug/m3	<0.17 U	<0.18 U	<0.33 U
Cis-1,3-Dichloropropene	10061-01-5	NS	ug/m3	<0.38 U	<0.41 U	<0.75 U
Cyclohexane	110-82-7	NS	ug/m3	0.87 D	5.7 D	0.57 D
Cymene	99-87-6	NS	ug/m3	<0.46 U	<0.49 U	<0.91 U
Dibromochloromethane	124-48-1	NS	ug/m3	<0.72 U	<0.76 U	<1.4 U
Dichlorodifluoromethane	75-71-8	NS	ug/m3	2.3 D	2.3 D	2.1 D
Ethyl Acetate	141-78-6	NS	ug/m3	21 D	7.5 JD	5.8 JD
Ethylbenzene	100-41-4	NS	ug/m3	1.2 D	4.4 D	1.6 D
Hexachlorobutadiene	87-68-3	NS	ug/m3	<0.9 U	<0.95 U	<1.8 U
Isopropanol	67-63-0	NS	ug/m3	3.8 D	5.1 D	1.7 JD
Isopropylbenzene (Cumene)	98-82-8	NS	ug/m3	<0.41 U	0.97 D	<0.82 U
M,P-Xylene	179601-23-1	NS	ug/m3	3.4 D	14 D	8.0 D
Methyl Ethyl Ketone (2-Butanone)	78-93-3	NS	ug/m3	1.5 JD	2.3 JD	1.0 JD
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	108-10-1	NS	ug/m3	<0.34 U	1.5 D	<0.68 U
Methyl Methacrylate	80-62-6	NS	ug/m3	<0.34 U	<0.37 U	<0.68 U
Methylene Chloride	75-09-2	60	ug/m3	0.50 JD	<1.9 U	<3.5 U
Naphthalene	91-20-3	NS	ug/m3	<4.4 U	0.89 JD	<8.7 U
n-Butylbenzene	104-51-8	NS	ug/m3	<0.46 U	<0.49 U	<0.91 U
n-Heptane	142-82-5	NS	ug/m3	<0.34 U	35 D	<0.68 U
n-Hexane	110-54-3	NS	ug/m3	2.4 D	8.4 D	<0.59 U
n-Propylbenzene	103-65-1	NS	ug/m3	<0.41 U	0.84 D	<0.82 U
o-Xylene (1,2-Dimethylbenzene)	95-47-6	NS	ug/m3	1.3 D	5.4 D	4.3 D
Propylene	115-07-1	NS	ug/m3	2.0 D	7.8 D	<0.29 U
Sec-Butylbenzene	135-98-8	NS	ug/m3	<0.46 U	<0.49 U	<0.91 U
Styrene	100-42-5	NS	ug/m3	<0.36 U	0.57 D	<0.71 U
T-Butylbenzene	98-06-6	NS	ug/m3	<0.46 U	<0.49 U	<0.91 U
Tert-Butyl Methyl Ether (MTBE)	1634-04-4	NS	ug/m3	<0.3 U	<0.32 U	<0.6 U
Tetrachloroethene (PCE)	127-18-4	30	ug/m3	<0.57 U	<0.61 U	98 D
Tetrahydrofuran	109-99-9	NS	ug/m3	<0.5 U	24 D	<0.98 U
Toluene	108-88-3	NS	ug/m3	13 D	170 D	10 D
Total Xylenes	1330-20-7	NS	ug/m3	4.7 D	19 D	12 D
Trans-1,2-Dichloroethene	156-60-5	NS	ug/m3	<0.33 U	<0.35 U	<0.66 U
Trans-1,3-Dichloropropene	10061-02-6	NS	ug/m3	<0.38 U	<0.41 U	<0.75 U
Trichloroethene (TCE)	79-01-6	2	ug/m3	<0.14 U	<0.14 U	0.89 D
Trichlorofluoromethane	75-69-4	NS	ug/m3	1.4 D	1.4 D	1.1 D
Vinyl Acetate	108-05-4	NS	ug/m3	<0.3 U	<0.32 U	<0.58 U
Vinyl Chloride	75-01-4	NS	ug/m3	<0.11 U	<0.11 U	<0.21 U
Total BTEX	BTEX	NS	ug/m3	21	198.3	24.13
Total VOCs	TOTALVOCS	NS	ug/m3	100.1	1003.79	159.34

Table 2
Periodic Review Report
Soil Vapor Sample Analytical Results

2409 Jerome Avenue
Bronx, New York
NYSDEC BCP Site No.: C203087
Langan Project No.: 170390601

Notes:

AA - Ambient Air
IA - Indoor Air
SSV - Sub-slab Soil Vapor
CAS - Chemical Abstract Service
NS - No standard
ug/m3 - microgram per cubic meter
NA - Not analyzed
RL - Reporting limit
<RL - Not detected
Indoor air sample analytical results are compared to the New York State Department of Health (NYSDOH) Air Guideline Values (AGVs) as set forth in the NYSDOH October 2006 Guidance for Evaluating Soil Vapor Intrusion in the State of New York and subsequent updates (through to 2024).
Ambient air sample analytical results are shown for reference only.

Qualifiers:

D - The concentration reported is a result of a diluted sample.
J - The analyte was detected above the method detection limit (MDL), but below the RL; therefore, the result is an estimated concentration.
U - The analyte was analyzed for, but was not detected at a level greater than or equal to the RL; the value shown in the table is the RL.

Exceedance Summary:

10 - Result exceeds NYSDOH AGVs

Table 2
Periodic Review Report Soil Vapor Analytical Results
Soil Vapor Sample Analytical Results

2409 Jerome Avenue
Bronx, New York
NYSDEC BCP Site No.: C203087
Langan Project No.: 170390601

Analyte	CAS Number	NYSDOH Decision Matrix (IA)		NYSDOH Decision Matrix (SSV)		Location	AA01	IA01_SSV01	IA01_SSV01
						Sample Name	AA01_121925	IA01_121925	SSV01_121925
						Sample Date	12/19/2025	12/19/2025	12/19/2025
						Sample Type	AA	IA	SSV
						Unit	Result	Result	Result
Volatile Organic Compounds									
1,1,1-Trichloroethane	71-55-6	3	10	100	1000	ug/m3	<0.46	<0.49	<0.91
1,1-Dichloroethene	75-35-4	0.2	1	6	60	ug/m3	<0.17	<0.18	<0.33
1,2,4-Trimethylbenzene	95-63-6	2	10	60	600	ug/m3	1.2	5.2	8.4
1,3,5-Trimethylbenzene (Mesitylene)	108-67-8	2	10	60	600	ug/m3	<0.41	1.3	2.6
2,2,4-Trimethylpentane	540-84-1	2	10	60	600	ug/m3	2.4	12	<0.39
Benzene	71-43-2	2	10	60	600	ug/m3	2.1	4.9	0.53
Carbon Tetrachloride	56-23-5	0.2	1	6	60	ug/m3	0.53	0.51	<0.31
Cis-1,2-Dichloroethene	156-59-2	0.2	1	6	60	ug/m3	<0.17	<0.18	<0.33
Cyclohexane	110-82-7	2	10	60	600	ug/m3	0.87	5.7	0.57
Ethylbenzene	100-41-4	2	10	60	600	ug/m3	1.2	4.4	1.6
M,P-Xylene	179601-23-1	6	20	200	2000	ug/m3	3.4	14	8
Methylene Chloride	75-09-2	3	10	100	1000	ug/m3	0.5	<1.9	<3.5
Naphthalene	91-20-3	2	10	60	600	ug/m3	<4.4	0.89	<8.7
n-Heptane	142-82-5	6	20	200	2000	ug/m3	<0.34	35	<0.68
n-Hexane	110-54-3	6	20	200	2000	ug/m3	2.4	8.4	<0.59
o-Xylene (1,2-Dimethylbenzene)	95-47-6	2	10	60	600	ug/m3	1.3	5.4	4.3
Tetrachloroethene (PCE)	127-18-4	3	10	100	1000	ug/m3	<0.57	<0.61	98
Toluene	108-88-3	10	50	300	3000	ug/m3	13	170	10
Trichloroethene (TCE)	79-01-6	0.2	1	6	60	ug/m3	<0.14	<0.14	0.89
Vinyl Chloride	75-01-4	0	0.2	6	60	ug/m3	<0.11	<0.11	<0.21

Notes:
AA - Ambient Air
IA - Indoor Air
SSV - Sub-slab Soil Vapor
CAS - Chemical Abstract Service
NS - No standard
ug/m3 - microgram per cubic meter
NA - Not analyzed
RL - Reporting limit
<RL - Not detected

Co-located sub-slab vapor and indoor air sample analytical results are evaluated using the New York State Department of Health (NYSDOH) October 2006 Guidance for Evaluating Soil Vapor Intrusion in the State of New York Decision Matrices for Sub-Slab Vapor and Indoor Air and subsequent updates (through to 2024).

Ambient air sample analytical results are shown for reference only.

Exceedance Summary:

10 - Result exceeds the minimum threshold for which monitoring is recommended
10 - Result exceeds the minimum threshold for which mitigation is recommended
10 - Result exceeds the minimum threshold for which identification of source(s) and resampling or mitigation is recommended

ATTACHMENT A

SITE INSPECTION FORM

Attachment A - Site Inspection Form

Site Name: 2409 Jerome Avenue Location: Bronx, NY Project Number: 170390601

Inspector Name: Lilah Willis Date: 12/19/2025 Weather Conditions: Rain, 26-35°F, wind W 2-10 mph, 30.25 inHg

Reason for Inspection (i.e., routine, maintenance, severe condition, etc.): Routine/annual inspection

Check one of the following: **Y:** Yes **N:** No **NA**: Not Applicable

		Y	N	NA	Normal Situation	Remarks
	General					
1	What are the current site conditions?	--	--	--	--	Site occupied by asphalt-paved area and two 1-story structures.
2	Are all applicable site records (e.g., documentation of construction activity, composite cover system maintenance and repair, etc.) complete and up to date?		N		Y	Site records are not present on-site. Corrective measure: Langan will mail copies of iSMP and HASP to the site.
3	Has site use remained the same?	Y			Y	
4	Are there any petroleum bulk storage tanks present at the site?	Y			Y	One closed-in-place 550-gallon waste oil UST.
5	For petroleum bulk storage tanks that are visible, are they in good condition and not leaking?			NA		
	Composite Cover System					
6	Are there any indications of any breaches in the concrete or asphalt systems at the time of this inspection?	Y			Y	No breaches that could present a potential exposure pathway were observed in the asphalt pavement; however, two areas were noted in the concrete slab in condition of needing repair.
7	Are there any cracks, gaps, or other obvious preferential migration pathways in the building slabs?	Y			N	Two areas were noted in the concrete slab in condition of needing repair.
8	If yes to number 6, is there any evidence of chemical or petroleum spill at or in the vicinity of one or more of these features?		N		N	
9	Are there any cracks or sinkholes in the asphalt pavement cover?	Y			Y	Surficial cracks and depressions in asphalt.
10	If yes to number 8, is there any evidence of chemical or petroleum spills or releases at or in the vicinity of one or more of these features?			NA		
11	Is there any construction activity, or indication of any construction activity within the past certification year (including any tenant improvements), that included the breaching of the cover system, on-site at the time of this inspection?	Y			N	On April 4, 2025, localized removal of damaged asphalt pavement identified during the December 2024 annual composite cover system inspection was completed. No underlying soil or subbase aggregate was excavated or removed. The areas were repaired with new 2 to 3-inch-thick asphalt pavement.
12	If YES to number 10, is there documentation that the iSMP, HASP, and CAMP for the site was/is being followed?	Y			Y	The asphalt pavement repair activitites were performed in accordance with the iSMP, HASP, and CAMP.

*** If the answer to any of the above questions indicate non-compliance with any IC/ECs for the site, additional remarks must be provided and, where applicable, documentation attached to this checklist detailing additional inspection and repair activities.**

Additional remarks 1) Maximum PID reading for ambient outdoor air = 3.1 ppm and 6.8 ppm for ambient indoor air inside the automobile garage.
2) Four 55-gallon drums were present inside garage 2. One was windshield wiper fluid, and 3 were labeled as antifreeze. Maximum PID readings for the four drums = 0.0 ppm
3) No staining or odors were observed next to the drums
4) Surficial cracks at two locations in the concrete slab cover system exceeding 6-inches deep

Minimum Inspection Schedule: Site-wide inspections will be conducted annually, per certification year, at a minimum. Additional inspections will also be conducted at times of severe condition events. All inspection events will utilize this checklist.

ATTACHMENT B

PHOTOGRAPHIC LOG

LANGAN

Photographic Log

Attachment B Periodic Review Report	Subject Property Location: 2409 Jerome Avenue (BCP Site No. C203087)	Project No. 170390601

Date	Photo No.
12/19/2025	1

Direction Photo Taken:

South

Description:

Asphalt pavement (cover system) conditions at the central entrance to the site.



Date	Photo No.
12/19/2024	2

Direction Photo Taken:

West

Description:

Asphalt pavement (cover system) conditions in the northern part of Lot 106.



LANGAN

Photographic Log

Attachment B Periodic Review Report	Subject Property Location: 2409 Jerome Avenue (BCP Site No. C203087)	Project No. 170390601

Date	Photo No.
12/19/2025	3

Direction Photo Taken:

East

Description:

Asphalt pavement (cover system) conditions at the northern entrance to the site.



Date	Photo No.
12/19/2025	4

Direction Photo Taken:

Southwest

Description:

Asphalt pavement (cover system) conditions at the entrance to the building.



LANGAN		Photographic Log
Attachment B **Periodic Review Report**	**Subject Property Location:** 2409 Jerome Avenue (BCP Site No. C203087)	**Project No.** 170390601

Date	**Photo No.**
12/19/2025	5

Direction Photo Taken:

North

Description:

Asphalt pavement (cover system) conditions in the southern part of Lot 113.



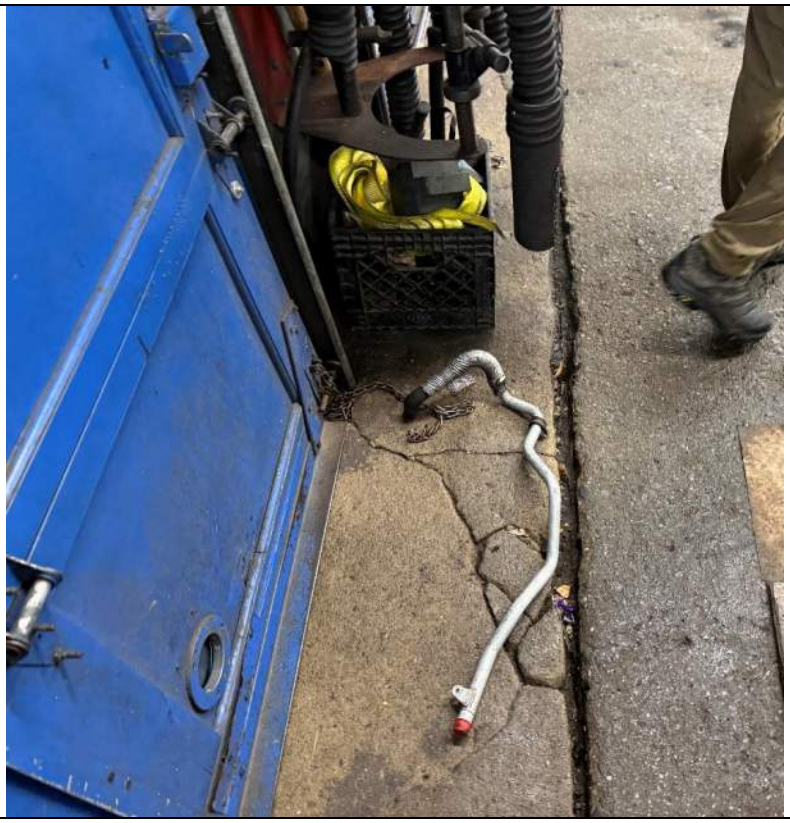
Date	**Photo No.**
12/19/2025	6

Direction Photo Taken:

Northwest

Description:

Concrete pavement (cover system) in the eastern part of the automotive repair building.



LANGAN

Photographic Log

Attachment B Periodic Review Report	Subject Property Location: 2409 Jerome Avenue (BCP Site No. C203087)	Project No. 170390601

Date	Photo No.
12/19/2025	7

Direction Photo Taken:

Northwest

Description:

Concrete pavement (cover system) inside the automotive repair building.



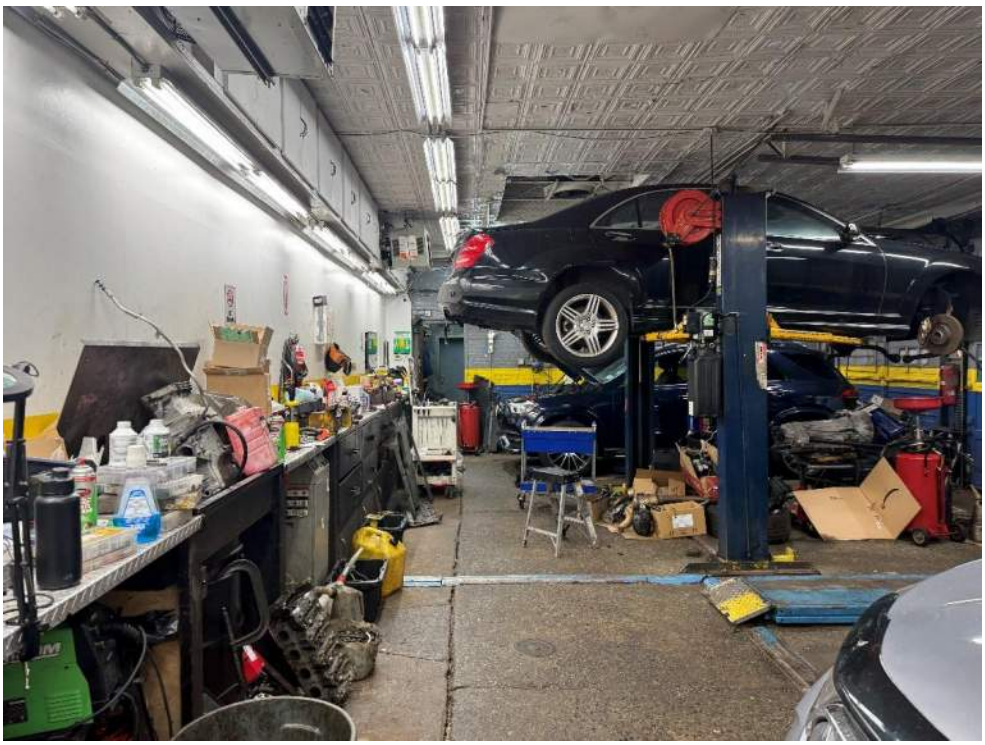
Date	Photo No.
12/19/2025	8

Direction Photo Taken:

North

Description:

Product storage located in the automotive repair garage.



Date	Photo No.
12/19/2025	9

Direction Photo Taken:

Southeast

Description:

Drum storage inside of the automotive repair building.



Date	Photo No.
12/19/2024	10

Direction Photo Taken:

West

Description:

Indoor air sample in the western part of the building.



Date	Photo No.
12/19/2025	11

Direction Photo Taken:

Overhead

Description:

Sub-slab soil vapor sampling point cover in the automotive repair building.



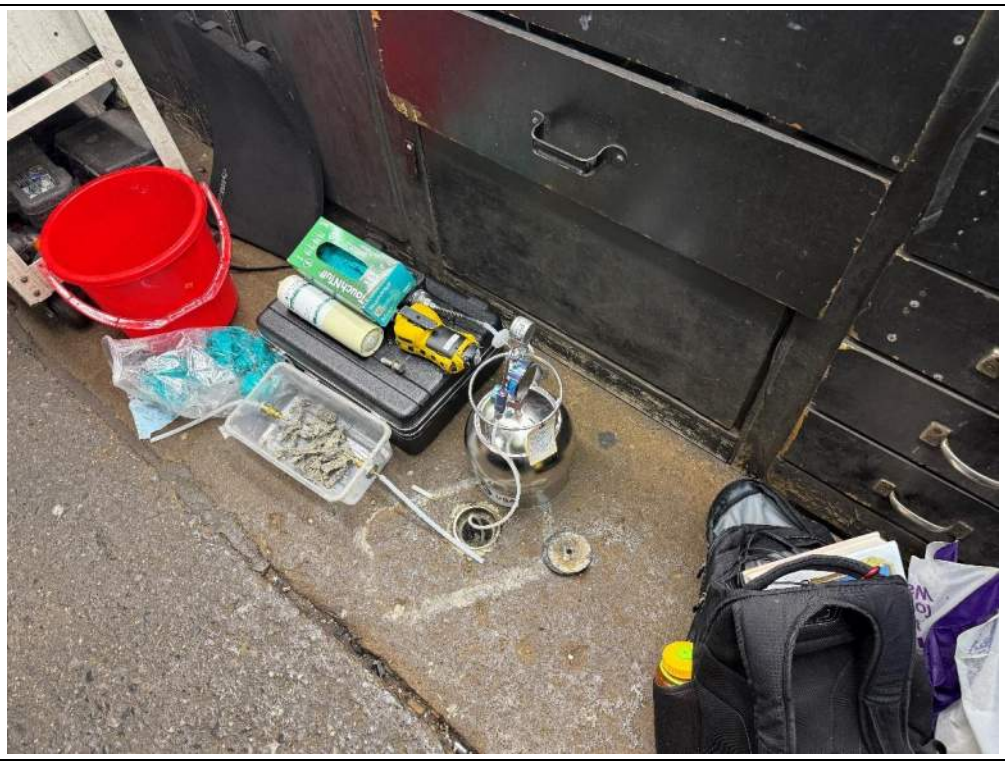
Date	Photo No.
12/19/2025	12

Direction Photo Taken:

West

Description:

Sub-slab soil vapor sample in the western part of the building.



LANGAN	Photographic Log	
Attachment B **Periodic Review Report**	**Subject Property Location:** 2409 Jerome Avenue (BCP Site No. C203087)	**Project No.** 170390601

Date	**Photo No.**
12/19/2025	13

Direction Photo Taken:

North

Description:

Ambient outdoor air sample located to the east of the building.



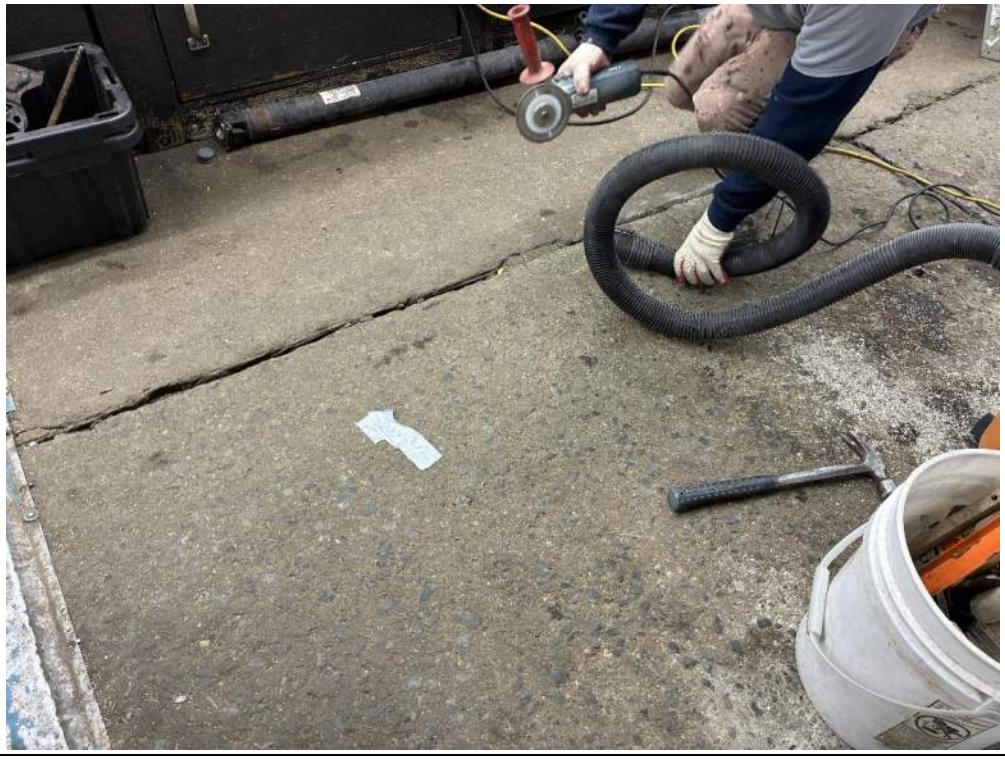
Date	**Photo No.**
2/10/2026	14

Direction Photo Taken:

Northwest

Description:

View of contractor cleaning the concrete slab area in need of repair.



Date	Photo No.
2/10/2026	15

Direction Photo Taken:

Southwest

Description:

View of contractor placing a polyurethane sealant on top of the filled crack in the concrete slab.



Date	Photo No.
2/10/2026	16

Direction Photo Taken:

South

Description:

View of contractor placing a polyurethane sealant on top of the filled crack in the concrete slab.



ATTACHMENT C

SUB-SLAB VAPOR AND INDOOR AIR SAMPLING LOGS

SUB-SLAB SOIL VAPOR SAMPLING LOG SHEET

Sample Number: SSV01_121925

PROJECT: 2409 Jerome Ave		**PROJECT NO.:** 170390601	
LOCATION: Bronx, NY		**SURFACE ELEVATION AND DATUM:** N/A	
DRILLING FIRM OR LANGAN INSTALLER: AARCO Environmental Services Corp.		**INSTALLATION DATE STARTED:** 12/30/2021	**DATE FINISHED:** 12/30/2021
INSTALLATION FOREMAN: Jose Garcia		**SAMPLE DATE STARTED:** 12/19/2025	**DATE FINISHED:** 12/19/2025
INSTALLATION EQUIPMENT: Jackhammer with Macrocore Attachment		**TYPE OF SAMPLING DEVICE:** 6-Liter Summa Canister	
INSPECTOR: Lilah Willis		**SAMPLER:** Lilah Willis	
POTENTIAL SAMPLE INTERFERENCES: N/A		**WEATHER CONDITIONS (PRECIP., TEMP., PRESS., WIND SPEED AND DIR.):**	
		Temp:	58-33 degrees F
		Wind:	2-12 mph W
		Precipitation:	Rain
		Pressure:	30.25 inHg

METHOD OF INSTALLATION AND PURGING:

On December 30, 2021 AARCO advanced a jackhammer with macrocore attachment to about 2-inches below the bottom of the 11-inch-thick concrete slab. AARCO installed a soil vapor probe at about 1 foot below grade surface (bgs) and backfilled with No. 2 Sand to about 2 inches bgs. AARCO used bentonite to backfill from about 2 inches bgs to surface grade and sealed the vapor point with bentonite.

TUBING TYPE/DIAMETER: 3/16-inch ID, 1/4-inch OD Teflon-Lined Polyethylene Tubing		**TYPE OF MATERIAL ABOVE SEAL:** Bentonite	
IMPLANT SCREEN TYPE/LENGTH/DIAMETER: None		**SEAL MATERIAL (Bentonite, Beeswax, Modeling Clay, etc.):** Bentonite	
BOREHOLE DIAMETER: 4-inches		**FILTER PACK MATERIAL (Sand or Glass Beads):** No. 2 Sand	
PURGE VOLUME (L):	2.0		
PURGE FLOW RATE (ML/MIN):	200		
PID AFTER PURGE (PPM):	0		
HELIUM TESTS	Pre-sampling / Post-sampling		
HELIUM TEST IN BUCKET(%):	12.1% / 15.6%		
HELIUM TEST IN TUBE (PPM):	0 / 0		
SAMPLE START TIME:	9:07		
SAMPLE STOP TIME:	16:27		
TOTAL SAMPLE TIME (MIN):	440		
REGULATOR FLOW RATE (L/MIN):	13.64		
VOLUME OF SAMPLE (LITERS):	6		
PID AFTER SAMPLE (PPM):	0		
SAMPLE MOISTURE CONTENT:	N/A		
CAN SERIAL NUMBER:	24163		
REGULATOR SERIAL NUMBER:	20947		
CAN START VACUUM PRESS. (" HG):	-30		
CAN STOP VACUUM PRESS. (" HG):	-6		

IMPLANT/PROBE DETAILS (SEAL, FILTER, ETC.)	**DEPTH (INCHES FROM SURFACE)**	**NOTES**
SURFACE / SURFACE		
Top of Seal	Surface	
Top of Pack	2	
Tube Depth	13	

SAMPLE LOCATION SKETCH

See Sample Location Plan

NOTES

Langan Engineering, Environmental, Surveying, Landscape Architecture, and Geology D.P.C.
368 Ninth Avenue, 8th Floor, New York, New York 10001-2727

AIR SAMPLING LOG SHEET

Sample Number: IA01_121925

PROJECT: 2409 Jerome Ave	**PROJECT NO.:** 170390601		
LOCATION: Bronx, NY	**SURFACE ELEVATION AND DATUM:** N/A		
SAMPLER: Lilah Willis	**SAMPLE DATE STARTED:** 12/19/2025	**DATE FINISHED:** 12/19/2025	
INSPECTOR: Lilah Willis	**TYPE OF SAMPLING DEVICE:** 6-Liter Summa Canister		
POTENTIAL SAMPLE INTERFERENCES: N/A	**WEATHER CONDITIONS (PRECIP., TEMP., PRESS., WIND SPEED AND DIR.):**		
	Temp:	33-58 degrees F	
	Wind:	2-12 mph W	
	Precipitation:	NA	
	Pressure:	30.25 in Hg	

METHOD OF INSTALLATION AND SAMPLING:

Langan field screened the sample location with a MultiRAE photoionization detector prior to sampling. Sample consisted of 6L Summa canister fitted with an 8-hour flow control valve. The flow controller was zeroed and valve opened to initiate the 8-hour sample collection. The sample and flow controller were checked each hour during sampling to ensure proper operation.

SAMPLE DETAILS

HEIGHT ABOVE GROUND (FT):	4
PID BEFORE SAMPLE (PPM):	0.0
SAMPLE START TIME:	9:07
SAMPLE STOP TIME:	16:15
TOTAL SAMPLE TIME (MIN):	408
REGULATOR FLOW RATE (L/MIN):	14.71
VOLUME OF SAMPLE (LITERS):	6
PID AFTER SAMPLE (PPM):	0.0
SAMPLE MOISTURE CONTENT:	N/A
CAN SERIAL NUMBER:	34503
REGULATOR SERIAL NUMBER:	20452
CAN START VACUUM PRESS. (" HG):	-28
CAN STOP VACUUM PRESS. (" HG):	-6

SAMPLE LOCATION SKETCH

See Sample Location Plan

NOTES

Langan Engineering, Environmental, Surveying, Landscape Architecture, and Geology D.P.C.
368 Ninth Avenue, 8th Floor, New York, New York 10001-2727

AIR SAMPLING LOG SHEET

Sample Number: AA01_121925

PROJECT: 2409 Jerome Ave		**PROJECT NO.:** 170390601	
LOCATION: Bronx, NY		**SURFACE ELEVATION AND DATUM:** N/A	
SAMPLER: Lilah Willis		**SAMPLE DATE STARTED:** 12/19/2025	**DATE FINISHED:** 12/19/2025
INSPECTOR: Lilah Willis		**TYPE OF SAMPLING DEVICE:** 6-Liter Summa Canister	
POTENTIAL SAMPLE INTERFERENCES: N/A		**WEATHER CONDITIONS (PRECIP., TEMP., PRESS., WIND SPEED AND DIR.):**	
		Temp:	33-58 degrees F
		Wind:	2-12 mph W
		Precipitation	NA
		Pressure:	30.25 in Hg

METHOD OF INSTALLATION AND SAMPLING:

Langan field screened the sample location with a MultiRAE photoionization detector prior to sampling. Sample consisted of 6L Summa canister fitted with an 8-hour flow control valve. The flow controller was zeroed and valve opened to initiate the 8-hour sample collection. The sample and flow controller were checked each hour during sampling to ensure proper operation.

SAMPLE DETAILS

HEIGHT ABOVE GROUND (FT):	3
PID BEFORE SAMPLE (PPM):	0.0
SAMPLE START TIME:	9:10
SAMPLE STOP TIME:	16:33
TOTAL SAMPLE TIME (MIN):	423
REGULATOR FLOW RATE (CC/MIN):	14.18
VOLUME OF SAMPLE (LITERS):	6
PID AFTER SAMPLE (PPM):	0.0
SAMPLE MOISTURE CONTENT:	N/A
CAN SERIAL NUMBER:	41840
REGULATOR SERIAL NUMBER:	16423
CAN START VACUUM PRESS. (" HG):	-30
CAN STOP VACUUM PRESS. (" HG):	-6

SAMPLE LOCATION SKETCH

See Sample Location Plan

NOTES

Langan Engineering, Environmental, Surveying, Landscape Architecture, and Geology D.P.C.
368 Ninth Avenue, 8th Floor, New York, New York 10001-2727

ATTACHMENT D

DATA USABILITY SUMMARY REPORT

Data Usability Summary Report
For 2409 Jerome Avenue
December 2025 Soil Vapor, Indoor, and Ambient Air Samples
Table 1: Sample Summary

SDG	Lab Sample ID	Client Sample ID	Sample Date	Validation Level	Analytical Parameters
25L1231	25L1231-01	SSV01_121925	12/19/2025	Tier 1	VOCs by USEPA TO-15
25L1231	25L1231-02	IA01_121925	12/19/2025	Tier 1	VOCs by USEPA TO-15
25L1231	25L1231-03	AA01_121925	12/19/2025	Tier 1	VOCs by USEPA TO-15

LANGAN
ENGINEERING & ENVIRONMENTAL SERVICES

Technical Memorandum

368 Ninth Avenue, 8th Floor New York, NY 10001 T: 609.282.8000
Mailing Address: 368 Ninth Avenue, 8th Floor New York, NY 10001-2727

To: Greg Wyka, Langan Associate

From: Krzysztof Trafalski, Langan Senior Staff Chemist

Date: January 14, 2026

Re: Data Usability Summary Report
For 2409 Jerome Avenue
December 2025 Soil Vapor, Indoor, and Ambient Air Samples
Langan Project No.: 170390601

This memorandum presents the findings of an analytical data validation of the data generated from the analysis of air samples collected in December 2025 by Langan Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C personnel at the 2409 Jerome Avenue site. The samples were analyzed by Pace Analytical Services – Mansfield, MA (NYSDOH NELAP registration # 11627) for volatile organic compounds (VOCs) by the method specified below.

- VOCs by USEPA Method TO-15

Table 1, attached, summarizes the laboratory and client sample identification numbers, sample collection dates, and analytical parameters subject to review.

Validation Overview

This data validation was performed in accordance with the following guidelines, where applicable:

- USEPA Region II Standard Operating Procedure (SOP) #HW-31, "Analysis of Volatile Organic Compounds in Air Contained in Canisters by Method TO-15" (September 2016, Revision 6),
- USEPA Contract Laboratory Program "National Functional Guidelines for Organic Superfund Methods Data Review" (EPA 540- R-20-005, November 2020), and
- published analytical methodologies.

Validation includes review of the analytical data to verify that data are easily traceable and sufficiently complete to permit logical reconstruction by a qualified individual other than the originator.

The following acronyms may be used in the discussion of data-quality issues:

%D	Percent Difference	MB	Method Blank
CCV	Continuing Calibration Verification	MDL	Method Detection Limit
FB	Field Blank	MS	Matrix Spike
FD	Field Duplicate	MSD	Matrix Spike Duplicate
ICAL	Initial Calibration	RF	Response Factor
ICV	Initial Calibration Verification	RL	Reporting Limit
ISTD	Internal Standard	RPD	Relative Percent Difference
LCL	Lower Control Limit	RSD	Relative Standard Deviation
LCS	Laboratory Control Sample	TB	Trip Blank
LCSD	Laboratory Control Sample Duplicate	UCL	Upper Control Limit

Tier 1 data validation is based on completeness and compliance checks of sample-related QC results including: sample receipt documentation; analytical holding times; sample preservation; blank results (method, field, and trip); surrogate recoveries; MS/MSD recoveries and RPDs values; field duplicate RPDs, laboratory duplicate RPDs, and LCS/LCSD recoveries and RPDs. One (1) Sample Delivery Group (SDG) underwent Tier 1 validation review.

As a result of the review process, the following qualifiers may be assigned to the data in accordance with the USEPA guidelines and our best professional judgment:

- **R –** The sample results are unusable. The results are rejected because of serious deficiencies in meeting quality control criteria in accordance with the applicable validation guidelines. The analyte may or may not be present in the sample.
- **J –** The analyte was positively identified but the associated numerical value is approximate.
- **UJ –** The analyte was not detected at or above the method detection limit. The method detection limit may be imprecise because of potential low or indeterminate bias.
- **U –** The analyte was not detected above the method detection limit, or the analyte detection is impacted by blank contamination and qualified as non-detect in accordance with the applicable validation guidelines.

If any validation qualifiers are assigned, these qualifiers should supersede any laboratory-applied qualifiers. Data that is not qualified because of this data validation is considered acceptable based on the items specified for review. Data that is qualified as "R" are considered invalid and are not technically usable for data interpretation. Data that is otherwise qualified because of minor data-quality anomalies are usable, as qualified in Table 2 (attached).

MAJOR DEFICIENCIES:

Major deficiencies include those that grossly impact data quality and necessitate the rejection of results. No major deficiencies were identified.

MINOR DEFICIENCIES:

Minor deficiencies include anomalies that directly impact data quality and necessitate qualification, but do not result in unusable data. No minor deficiencies were identified.

OTHER DEFICIENCIES:

Other deficiencies include anomalies that do not directly impact data quality and do not necessitate qualification. No other deficiencies were identified.

FIELD DUPLICATE:

A field duplicate and parent sample pair was not collected as part of this sampling event.

CONCLUSION:

Based on this evaluation, the laboratory appears to have followed the specified analytical methods except for errors discussed above. If a given fraction is not mentioned above, that means that all specified criteria were met for that parameter. All the data packages met ASP Category B requirements.

All data are considered usable, as qualified. In addition, completeness, defined as the percentage of analytical results that are judged to be valid, is 100%.

Signed:



Krzysztof Trafalski
Senior Staff Chemist

ATTACHMENT E

LABORATORY ANALYTICAL REPORTS

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Technical Report

prepared for:

Langan Engineering & Environmental Services (NYC)
21 Penn Plaza, 360 West 31st Street
New York NY, 10001
Attention: Kristen Wexler

Report Date: 01/15/2026
Client Project ID: 170390601
Project (SDG) No.: 25L1231

Report Date: 01/15/2026
Client Project ID: 170390601
Project (SDG) No.: 25L1231

Langan Engineering & Environmental Services (NYC)
21 Penn Plaza, 360 West 31st Street
New York NY, 10001
Attention: Kristen Wexler

General Notes

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on December 22, 2025 and listed below. The project was identified as your project: **170390601**.

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the customary acceptance requirements for environmental samples except those indicated under the ***Sample and Analysis Qualifiers*** section of this report.

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the ***Sample and Data Qualifiers Relating to This Work Order*** section of this report and case narrative if applicable.

All Standard method references are based on the 24th Edition of Standard Methods unless otherwise noted.

The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.

Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.

ALS's liability for the above data is limited to the dollar value paid to ALS for the referenced project.

This report shall not be reproduced without the written approval of ALS.

All analyses conducted met method or Laboratory SOP requirements. See the Sample and Data Qualifiers Section for further information

It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.

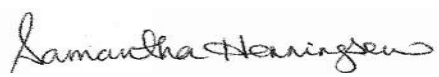
This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by ALS.

Analyses conducted at ALS Environmental - Richmond Hill - Stratford, CT are indicated by NYDOH-NY10854, NJDEP-CT005, PADEP-68-04440, CTDPH-PH0840; those conducted at ALS Environmental - Richmond Hill, NY are indicated by NYDOH-NY12058, NJDEP-NY037, CTDPH-PH0837, NHDES-NH2097, MDDEP-375, PADEP-68-06231.

The results of the analyses, which are all reported on dry weight basis (soils) unless otherwise noted, are detailed in the following pages.

Please contact Client Services at 203.325.1371 with any questions regarding this report.

Approved By:



Samantha Henningsen
Laboratory Director - Queens

Client:	Langan Engineering & Environmental Services (NYC)	**Sample ID:**	**25L1231-01**
Client Project:	170390601	**Date Received:**	12/22/2025
Client Sample ID:	SSV01_121925	**Collection Date/Time:**	12/19/25 16:27

Lab ID:	**25L1231-01**	**Laboratory:**	ALS Environmental - Stratford
Analysis:	**Volatile Organic Compounds in Air by GC/MS**	**Matrix:**	Soil Vapor
Prep Method:	Sample Prepared by Method: EPA TO15 PREP		

Parameter	Result	Flag	MDL	RL	Dilution	Units	Reference Method	Extracted	Analyzed	Analyst
* 1,1,1,2-Tetrachloroethane	ND		0.35	1.1	1.661	ug/m³	EPA TO-15	12/23/25 8:00	12/30/25 03:19	YR
1,1,1-Trichloroethane	ND		0.32	0.91	1.661	ug/m³	EPA TO-15	12/23/25 8:00	12/30/25 03:19	YR
1,1,2,2-Tetrachloroethane	ND		0.32	1.1	1.661	ug/m³	EPA TO-15	12/23/25 8:00	12/30/25 03:19	YR
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		0.46	1.3	1.661	ug/m³	EPA TO-15	12/23/25 8:00	12/30/25 03:19	YR
1,1,2-Trichloroethane	ND		0.32	0.91	1.661	ug/m³	EPA TO-15	12/23/25 8:00	12/30/25 03:19	YR
1,1-Dichloroethane	ND		0.27	0.67	1.661	ug/m³	EPA TO-15	12/23/25 8:00	12/30/25 03:19	YR
1,1-Dichloroethylene	ND		0.29	0.33	1.661	ug/m³	EPA TO-15	12/23/25 8:00	12/30/25 03:19	YR
1,2,4-Trichlorobenzene	ND		0.47	62	1.661	ug/m³	EPA TO-15	12/23/25 8:00	12/30/25 03:19	YR
1,2,4-Trimethylbenzene	**8.4**		0.27	0.82	1.661	ug/m³	EPA TO-15	12/23/25 8:00	12/30/25 03:19	YR
1,2-Dibromoethane	ND		0.40	1.3	1.661	ug/m³	EPA TO-15	12/23/25 8:00	12/30/25 03:19	YR
1,2-Dichlorobenzene	ND		0.31	1.0	1.661	ug/m³	EPA TO-15	12/23/25 8:00	12/30/25 03:19	YR
1,2-Dichloroethane	ND		0.31	0.67	1.661	ug/m³	EPA TO-15	12/23/25 8:00	12/30/25 03:19	YR
1,2-Dichloropropane	ND		0.26	0.77	1.661	ug/m³	EPA TO-15	12/23/25 8:00	12/30/25 03:19	YR
1,2-Dichlorotetrafluoroethane	ND		0.59	1.2	1.661	ug/m³	EPA TO-15	12/23/25 8:00	12/30/25 03:19	YR
1,3,5-Trimethylbenzene	**2.6**		0.12	0.82	1.661	ug/m³	EPA TO-15	12/23/25 8:00	12/30/25 03:19	YR
1,3-Butadiene	ND		0.11	1.1	1.661	ug/m³	EPA TO-15	12/23/25 8:00	12/30/25 03:19	YR
1,3-Dichlorobenzene	ND		0.28	1.0	1.661	ug/m³	EPA TO-15	12/23/25 8:00	12/30/25 03:19	YR
* 1,3-Dichloropropane	ND		0.24	0.77	1.661	ug/m³	EPA TO-15	12/23/25 8:00	12/30/25 03:19	YR
1,4-Dichlorobenzene	ND		0.24	1.0	1.661	ug/m³	EPA TO-15	12/23/25 8:00	12/30/25 03:19	YR
1,4-Dioxane	ND		0.63	3.0	1.661	ug/m³	EPA TO-15	12/23/25 8:00	12/30/25 03:19	YR
* ^2,2,4-Trimethylpentane	ND		0.39	0.39	1.661	ug/m³	EPA TO-15	12/23/25 8:00	12/30/25 03:19	YR
2-Butanone	**1.0**		0.83	24	1.661	ug/m³	EPA TO-15	12/23/25 8:00	12/30/25 03:19	YR
* 2-Hexanone	ND		0.37	1.4	1.661	ug/m³	EPA TO-15	12/23/25 8:00	12/30/25 03:19	YR
3-Chloropropene	ND		0.22	2.6	1.661	ug/m³	EPA TO-15	12/23/25 8:00	12/30/25 03:19	YR
4-Methyl-2-pentanone	ND		0.30	0.68	1.661	ug/m³	EPA TO-15	12/23/25 8:00	12/30/25 03:19	YR
Acetone	**10**		2.0	20	1.661	ug/m³	EPA TO-15	12/23/25 8:00	12/30/25 03:19	YR
* ^Acrolein	**1.6**		0.24	0.38	1.661	ug/m³	EPA TO-15	12/23/25 8:00	12/30/25 03:19	YR
Acrylonitrile	ND		3.4	18	1.661	ug/m³	EPA TO-15	12/23/25 8:00	12/30/25 03:19	YR
Benzene	**0.53**		0.19	0.53	1.661	ug/m³	EPA TO-15	12/23/25 8:00	12/30/25 03:19	YR
Benzyl chloride	ND		0.27	21	1.661	ug/m³	EPA TO-15	12/23/25 8:00	12/30/25 03:19	YR
Bromodichloromethane	ND		0.33	1.1	1.661	ug/m³	EPA TO-15	12/23/25 8:00	12/30/25 03:19	YR
Bromoform	ND		0.73	1.7	1.661	ug/m³	EPA TO-15	12/23/25 8:00	12/30/25 03:19	YR
Bromomethane	ND		0.28	0.64	1.661	ug/m³	EPA TO-15	12/23/25 8:00	12/30/25 03:19	YR
Carbon disulfide	ND		0.13	0.52	1.661	ug/m³	EPA TO-15	12/23/25 8:00	12/30/25 03:19	YR
Carbon tetrachloride	ND		0.31	0.31	1.661	ug/m³	EPA TO-15	12/23/25 8:00	12/30/25 03:19	YR
Chlorobenzene	ND		0.29	0.76	1.661	ug/m³	EPA TO-15	12/23/25 8:00	12/30/25 03:19	YR
Chloroethane	ND		0.25	0.44	1.661	ug/m³	EPA TO-15	12/23/25 8:00	12/30/25 03:19	YR
Chloroform	**0.81**		0.23	0.81	1.661	ug/m³	EPA TO-15	12/23/25 8:00	12/30/25 03:19	YR
Chloromethane	**0.34**		0.24	0.34	1.661	ug/m³	EPA TO-15	12/23/25 8:00	12/30/25 03:19	YR
cis-1,2-Dichloroethylene	ND		0.17	0.33	1.661	ug/m³	EPA TO-15	12/23/25 8:00	12/30/25 03:19	YR
cis-1,3-Dichloropropylene	ND		0.30	0.75	1.661	ug/m³	EPA TO-15	12/23/25 8:00	12/30/25 03:19	YR
Cyclohexane	**0.57**		0.40	0.57	1.661	ug/m³	EPA TO-15	12/23/25 8:00	12/30/25 03:19	YR

* Analyte is not certified or the state of the samples origination does not offer certification for the Analyte.

Client:	Langan Engineering & Environmental Services (NYC)	**Sample ID:**	**25L1231-01**
Client Project:	170390601	**Date Received:**	12/22/2025
Client Sample ID:	SSV01_121925	**Collection Date/Time:**	12/19/25 16:27

Lab ID:	**25L1231-01**	**Laboratory:**	ALS Environmental - Stratford
Analysis:	**Volatile Organic Compounds in Air by GC/MS**	**Matrix:**	Soil Vapor
Prep Method:	Sample Prepared by Method: EPA TO15 PREP		

Parameter	Result	Flag	MDL	RL	Dilution	Units	Reference Method	Extracted	Analyzed	Analyst
Dibromochloromethane	ND		0.57	1.4	1.661	ug/m³	EPA TO-15	12/23/25 8:00	12/30/25 03:19	YR
Dichlorodifluoromethane	**2.1**		0.46	0.82	1.661	ug/m³	EPA TO-15	12/23/25 8:00	12/30/25 03:19	YR
* Ethyl acetate	**5.8**		0.36	30	1.661	ug/m³	EPA TO-15	12/23/25 8:00	12/30/25 03:19	YR
Ethyl Benzene	**1.6**		0.24	0.72	1.661	ug/m³	EPA TO-15	12/23/25 8:00	12/30/25 03:19	YR
Hexachlorobutadiene	ND		0.68	1.8	1.661	ug/m³	EPA TO-15	12/23/25 8:00	12/30/25 03:19	YR
Isopropanol	**1.7**		0.098	2.4	1.661	ug/m³	EPA TO-15	12/23/25 8:00	12/30/25 03:19	YR
Isopropylbenzene	ND		0.15	0.82	1.661	ug/m³	EPA TO-15	12/23/25 8:00	12/30/25 03:19	YR
Methyl Methacrylate	ND		0.42	0.68	1.661	ug/m³	EPA TO-15	12/23/25 8:00	12/30/25 03:19	YR
Methyl tert-butyl ether (MTBE)	ND		0.18	0.60	1.661	ug/m³	EPA TO-15	12/23/25 8:00	12/30/25 03:19	YR
Methylene chloride	ND		0.19	3.5	1.661	ug/m³	EPA TO-15	12/23/25 8:00	12/30/25 03:19	YR
* ^Naphthalene	ND		0.60	8.7	1.661	ug/m³	EPA TO-15	12/23/25 8:00	12/30/25 03:19	YR
* n-Butylbenzene	ND		0.27	0.91	1.661	ug/m³	EPA TO-15	12/23/25 8:00	12/30/25 03:19	YR
n-Heptane	ND		0.26	0.68	1.661	ug/m³	EPA TO-15	12/23/25 8:00	12/30/25 03:19	YR
n-Hexane	ND		0.18	0.59	1.661	ug/m³	EPA TO-15	12/23/25 8:00	12/30/25 03:19	YR
* n-Propylbenzene	ND		0.21	0.82	1.661	ug/m³	EPA TO-15	12/23/25 8:00	12/30/25 03:19	YR
o-Xylene	**4.3**		0.25	0.72	1.661	ug/m³	EPA TO-15	12/23/25 8:00	12/30/25 03:19	YR
p- & m- Xylenes	**8.0**		0.37	1.4	1.661	ug/m³	EPA TO-15	12/23/25 8:00	12/30/25 03:19	YR
* p-Ethyltoluene	ND		0.29	0.82	1.661	ug/m³	EPA TO-15	12/23/25 8:00	12/30/25 03:19	YR
* p-Isopropyltoluene	ND		0.17	0.91	1.661	ug/m³	EPA TO-15	12/23/25 8:00	12/30/25 03:19	YR
* Propylene	ND		0.16	0.29	1.661	ug/m³	EPA TO-15	12/23/25 8:00	12/30/25 03:19	YR
* sec-Butylbenzene	ND		0.23	0.91	1.661	ug/m³	EPA TO-15	12/23/25 8:00	12/30/25 03:19	YR
Styrene	ND		0.22	0.71	1.661	ug/m³	EPA TO-15	12/23/25 8:00	12/30/25 03:19	YR
* tert-Butylbenzene	ND		0.35	0.91	1.661	ug/m³	EPA TO-15	12/23/25 8:00	12/30/25 03:19	YR
Tetrachloroethylene	**98**		0.27	1.1	1.661	ug/m³	EPA TO-15	12/23/25 8:00	12/30/25 03:19	YR
* Tetrahydrofuran	ND		0.16	0.98	1.661	ug/m³	EPA TO-15	12/23/25 8:00	12/30/25 03:19	YR
Toluene	**10**		0.25	0.63	1.661	ug/m³	EPA TO-15	12/23/25 8:00	12/30/25 03:19	YR
trans-1,2-Dichloroethylene	ND		0.16	0.66	1.661	ug/m³	EPA TO-15	12/23/25 8:00	12/30/25 03:19	YR
trans-1,3-Dichloropropylene	ND		0.30	0.75	1.661	ug/m³	EPA TO-15	12/23/25 8:00	12/30/25 03:19	YR
Trichloroethylene	**0.89**		0.27	0.27	1.661	ug/m³	EPA TO-15	12/23/25 8:00	12/30/25 03:19	YR
Trichlorofluoromethane (Freon 11)	**1.1**		0.34	0.93	1.661	ug/m³	EPA TO-15	12/23/25 8:00	12/30/25 03:19	YR
Vinyl acetate	ND		0.29	0.58	1.661	ug/m³	EPA TO-15	12/23/25 8:00	12/30/25 03:19	YR
Vinyl bromide	ND		0.25	0.73	1.661	ug/m³	EPA TO-15	12/23/25 8:00	12/30/25 03:19	YR
Vinyl Chloride	ND		0.17	0.21	1.661	ug/m³	EPA TO-15	12/23/25 8:00	12/30/25 03:19	YR
Xylenes, Total	**12**		0.60	2.2	1.661	ug/m³	EPA TO-15	12/23/25 8:00	12/30/25 03:19	YR

Client:	Langan Engineering & Environmental Services (NYC)	**Sample ID:**	**25L1231-02**
Client Project:	170390601	**Date Received:**	12/22/2025
Client Sample ID:	IA01_121925	**Collection Date/Time:**	12/19/25 16:15

Lab ID:	**25L1231-02**	**Laboratory:**	ALS Environmental - Stratford
Analysis:	**Volatile Organic Compounds in Air by GC/MS**	**Matrix:**	Indoor Ambient Air
Prep Method:	Sample Prepared by Method: EPA TO15 PREP		

* Analyte is not certified or the state of the samples origination does not offer certification for the Analyte.

Client:	Langan Engineering & Environmental Services (NYC)	**Sample ID:**	**25L1231-02**
Client Project:	170390601	**Date Received:**	12/22/2025
Client Sample ID:	IA01_121925	**Collection Date/Time:**	12/19/25 16:15

Lab ID:	**25L1231-02**	**Laboratory:**	ALS Environmental - Stratford
Analysis:	**Volatile Organic Compounds in Air by GC/MS**	**Matrix:**	Indoor Ambient Air
Prep Method:	Sample Prepared by Method: EPA TO15 PREP		

Parameter	Result	Flag	MDL	RL	Dilution	Units	Reference Method	Extracted	Analyzed	Analyst
* 1,1,1,2-Tetrachloroethane	ND		0.19	0.61	0.895	ug/m³	EPA TO-15	12/23/25 8:00	12/30/25 04:05	YR
1,1,1-Trichloroethane	ND		0.17	0.49	0.895	ug/m³	EPA TO-15	12/23/25 8:00	12/30/25 04:05	YR
1,1,2,2-Tetrachloroethane	ND		0.17	0.61	0.895	ug/m³	EPA TO-15	12/23/25 8:00	12/30/25 04:05	YR
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		0.25	0.69	0.895	ug/m³	EPA TO-15	12/23/25 8:00	12/30/25 04:05	YR
1,1,2-Trichloroethane	ND		0.17	0.49	0.895	ug/m³	EPA TO-15	12/23/25 8:00	12/30/25 04:05	YR
1,1-Dichloroethane	ND		0.15	0.36	0.895	ug/m³	EPA TO-15	12/23/25 8:00	12/30/25 04:05	YR
1,1-Dichloroethylene	ND		0.15	0.18	0.895	ug/m³	EPA TO-15	12/23/25 8:00	12/30/25 04:05	YR
1,2,4-Trichlorobenzene	ND		0.25	33	0.895	ug/m³	EPA TO-15	12/23/25 8:00	12/30/25 04:05	YR
1,2,4-Trimethylbenzene	**5.2**		0.15	0.44	0.895	ug/m³	EPA TO-15	12/23/25 8:00	12/30/25 04:05	YR
1,2-Dibromoethane	ND		0.22	0.69	0.895	ug/m³	EPA TO-15	12/23/25 8:00	12/30/25 04:05	YR
1,2-Dichlorobenzene	ND		0.17	0.54	0.895	ug/m³	EPA TO-15	12/23/25 8:00	12/30/25 04:05	YR
1,2-Dichloroethane	ND		0.17	0.36	0.895	ug/m³	EPA TO-15	12/23/25 8:00	12/30/25 04:05	YR
1,2-Dichloropropane	ND		0.14	0.41	0.895	ug/m³	EPA TO-15	12/23/25 8:00	12/30/25 04:05	YR
1,2-Dichlorotetrafluoroethane	ND		0.32	0.63	0.895	ug/m³	EPA TO-15	12/23/25 8:00	12/30/25 04:05	YR
1,3,5-Trimethylbenzene	**1.3**		0.067	0.44	0.895	ug/m³	EPA TO-15	12/23/25 8:00	12/30/25 04:05	YR
1,3-Butadiene	**0.61**		0.061	0.59	0.895	ug/m³	EPA TO-15	12/23/25 8:00	12/30/25 04:05	YR
1,3-Dichlorobenzene	ND		0.15	0.54	0.895	ug/m³	EPA TO-15	12/23/25 8:00	12/30/25 04:05	YR
* 1,3-Dichloropropane	ND		0.13	0.41	0.895	ug/m³	EPA TO-15	12/23/25 8:00	12/30/25 04:05	YR
1,4-Dichlorobenzene	ND		0.13	0.54	0.895	ug/m³	EPA TO-15	12/23/25 8:00	12/30/25 04:05	YR
1,4-Dioxane	ND		0.34	1.6	0.895	ug/m³	EPA TO-15	12/23/25 8:00	12/30/25 04:05	YR
* ^2,2,4-Trimethylpentane	**12**		0.21	0.21	0.895	ug/m³	EPA TO-15	12/23/25 8:00	12/30/25 04:05	YR
2-Butanone	**2.3**		0.45	13	0.895	ug/m³	EPA TO-15	12/23/25 8:00	12/30/25 04:05	YR
* 2-Hexanone	ND		0.20	0.73	0.895	ug/m³	EPA TO-15	12/23/25 8:00	12/30/25 04:05	YR
3-Chloropropene	ND		0.12	1.4	0.895	ug/m³	EPA TO-15	12/23/25 8:00	12/30/25 04:05	YR
4-Methyl-2-pentanone	**1.5**		0.16	0.37	0.895	ug/m³	EPA TO-15	12/23/25 8:00	12/30/25 04:05	YR
Acetone	**680**		20	200	16.61	ug/m³	EPA TO-15	12/30/25 8:00	12/30/25 20:38	YR
* ^Acrolein	ND		0.13	0.21	0.895	ug/m³	EPA TO-15	12/23/25 8:00	12/30/25 04:05	YR
Acrylonitrile	ND		1.9	9.7	0.895	ug/m³	EPA TO-15	12/23/25 8:00	12/30/25 04:05	YR
Benzene	**4.9**		0.10	0.29	0.895	ug/m³	EPA TO-15	12/23/25 8:00	12/30/25 04:05	YR
Benzyl chloride	ND		0.14	12	0.895	ug/m³	EPA TO-15	12/23/25 8:00	12/30/25 04:05	YR
Bromodichloromethane	ND		0.18	0.60	0.895	ug/m³	EPA TO-15	12/23/25 8:00	12/30/25 04:05	YR
Bromoform	ND		0.39	0.93	0.895	ug/m³	EPA TO-15	12/23/25 8:00	12/30/25 04:05	YR
Bromomethane	ND		0.15	0.35	0.895	ug/m³	EPA TO-15	12/23/25 8:00	12/30/25 04:05	YR
Carbon disulfide	ND		0.072	0.28	0.895	ug/m³	EPA TO-15	12/23/25 8:00	12/30/25 04:05	YR
Carbon tetrachloride	**0.51**		0.17	0.17	0.895	ug/m³	EPA TO-15	12/23/25 8:00	12/30/25 04:05	YR
Chlorobenzene	ND		0.16	0.41	0.895	ug/m³	EPA TO-15	12/23/25 8:00	12/30/25 04:05	YR
Chloroethane	ND		0.13	0.24	0.895	ug/m³	EPA TO-15	12/23/25 8:00	12/30/25 04:05	YR
Chloroform	ND		0.12	0.44	0.895	ug/m³	EPA TO-15	12/23/25 8:00	12/30/25 04:05	YR
Chloromethane	**1.2**		0.13	0.18	0.895	ug/m³	EPA TO-15	12/23/25 8:00	12/30/25 04:05	YR
cis-1,2-Dichloroethylene	ND		0.091	0.18	0.895	ug/m³	EPA TO-15	12/23/25 8:00	12/30/25 04:05	YR
cis-1,3-Dichloropropylene	ND		0.16	0.41	0.895	ug/m³	EPA TO-15	12/23/25 8:00	12/30/25 04:05	YR
Cyclohexane	**5.7**		0.22	0.31	0.895	ug/m³	EPA TO-15	12/23/25 8:00	12/30/25 04:05	YR
Dibromochloromethane	ND		0.31	0.76	0.895	ug/m³	EPA TO-15	12/23/25 8:00	12/30/25 04:05	YR

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Client:	Langan Engineering & Environmental Services (NYC)	**Sample ID:**	**25L1231-02**
Client Project:	170390601	**Date Received:**	12/22/2025
Client Sample ID:	IA01_121925	**Collection Date/Time:**	12/19/25 16:15

Lab ID: **25L1231-02** **Laboratory:** ALS Environmental - Stratford

Analysis: **Volatile Organic Compounds in Air by GC/MS** **Matrix:** Indoor Ambient Air

Prep Method: Sample Prepared by Method: EPA TO15 PREP

Parameter	Result	Flag	MDL	RL	Dilution	Units	Reference Method	Extracted	Analyzed	Analyst
Dichlorodifluoromethane	**2.3**		0.25	0.44	0.895	ug/m³	EPA TO-15	12/23/25 8:00	12/30/25 04:05	YR
* Ethyl acetate	**7.5**		0.19	16	0.895	ug/m³	EPA TO-15	12/23/25 8:00	12/30/25 04:05	YR
Ethyl Benzene	**4.4**		0.13	0.39	0.895	ug/m³	EPA TO-15	12/23/25 8:00	12/30/25 04:05	YR
Hexachlorobutadiene	ND		0.36	0.95	0.895	ug/m³	EPA TO-15	12/23/25 8:00	12/30/25 04:05	YR
Isopropanol	**5.1**		0.053	1.3	0.895	ug/m³	EPA TO-15	12/23/25 8:00	12/30/25 04:05	YR
Isopropylbenzene	**0.97**		0.079	0.44	0.895	ug/m³	EPA TO-15	12/23/25 8:00	12/30/25 04:05	YR
Methyl Methacrylate	ND		0.23	0.37	0.895	ug/m³	EPA TO-15	12/23/25 8:00	12/30/25 04:05	YR
Methyl tert-butyl ether (MTBE)	ND		0.099	0.32	0.895	ug/m³	EPA TO-15	12/23/25 8:00	12/30/25 04:05	YR
Methylene chloride	ND		0.10	1.9	0.895	ug/m³	EPA TO-15	12/23/25 8:00	12/30/25 04:05	YR
* ^Naphthalene	**0.89**		0.32	4.7	0.895	ug/m³	EPA TO-15	12/23/25 8:00	12/30/25 04:05	YR
* n-Butylbenzene	ND		0.15	0.49	0.895	ug/m³	EPA TO-15	12/23/25 8:00	12/30/25 04:05	YR
n-Heptane	**35**		0.14	0.37	0.895	ug/m³	EPA TO-15	12/23/25 8:00	12/30/25 04:05	YR
n-Hexane	**8.4**		0.099	0.32	0.895	ug/m³	EPA TO-15	12/23/25 8:00	12/30/25 04:05	YR
* n-Propylbenzene	**0.84**		0.11	0.44	0.895	ug/m³	EPA TO-15	12/23/25 8:00	12/30/25 04:05	YR
o-Xylene	**5.4**		0.14	0.39	0.895	ug/m³	EPA TO-15	12/23/25 8:00	12/30/25 04:05	YR
p- & m- Xylenes	**14**		0.20	0.78	0.895	ug/m³	EPA TO-15	12/23/25 8:00	12/30/25 04:05	YR
* p-Ethyltoluene	ND		0.15	0.44	0.895	ug/m³	EPA TO-15	12/23/25 8:00	12/30/25 04:05	YR
* p-Isopropyltoluene	ND		0.089	0.49	0.895	ug/m³	EPA TO-15	12/23/25 8:00	12/30/25 04:05	YR
* Propylene	**7.8**		0.088	0.15	0.895	ug/m³	EPA TO-15	12/23/25 8:00	12/30/25 04:05	YR
* sec-Butylbenzene	ND		0.13	0.49	0.895	ug/m³	EPA TO-15	12/23/25 8:00	12/30/25 04:05	YR
Styrene	**0.57**		0.12	0.38	0.895	ug/m³	EPA TO-15	12/23/25 8:00	12/30/25 04:05	YR
* tert-Butylbenzene	ND		0.19	0.49	0.895	ug/m³	EPA TO-15	12/23/25 8:00	12/30/25 04:05	YR
Tetrachloroethylene	ND		0.14	0.61	0.895	ug/m³	EPA TO-15	12/23/25 8:00	12/30/25 04:05	YR
* Tetrahydrofuran	**24**		0.089	0.53	0.895	ug/m³	EPA TO-15	12/23/25 8:00	12/30/25 04:05	YR
Toluene	**170**		2.5	6.3	16.61	ug/m³	EPA TO-15	12/30/25 8:00	12/30/25 20:38	YR
trans-1,2-Dichloroethylene	ND		0.085	0.35	0.895	ug/m³	EPA TO-15	12/23/25 8:00	12/30/25 04:05	YR
trans-1,3-Dichloropropylene	ND		0.16	0.41	0.895	ug/m³	EPA TO-15	12/23/25 8:00	12/30/25 04:05	YR
Trichloroethylene	ND		0.14	0.14	0.895	ug/m³	EPA TO-15	12/23/25 8:00	12/30/25 04:05	YR
Trichlorofluoromethane (Freon 11)	**1.4**		0.18	0.50	0.895	ug/m³	EPA TO-15	12/23/25 8:00	12/30/25 04:05	YR
Vinyl acetate	ND		0.16	0.32	0.895	ug/m³	EPA TO-15	12/23/25 8:00	12/30/25 04:05	YR
Vinyl bromide	ND		0.14	0.39	0.895	ug/m³	EPA TO-15	12/23/25 8:00	12/30/25 04:05	YR
Vinyl Chloride	ND		0.092	0.11	0.895	ug/m³	EPA TO-15	12/23/25 8:00	12/30/25 04:05	YR
Xylenes, Total	**19**		0.32	1.2	0.895	ug/m³	EPA TO-15	12/23/25 8:00	12/30/25 04:05	YR

Client:	Langan Engineering & Environmental Services (NYC)	**Sample ID:**	**25L1231-03**
Client Project:	170390601	**Date Received:**	12/22/2025
Client Sample ID:	AA01_121925	**Collection Date/Time:**	12/19/25 16:33

Lab ID: **25L1231-03** **Laboratory:** ALS Environmental - Stratford

Analysis: **Volatile Organic Compounds in Air by GC/MS** **Matrix:** Outdoor Ambient Air

Prep Method: Sample Prepared by Method: EPA TO15 PREP

Parameter	Result	Flag	MDL	RL	Dilution	Units	Reference Method	Extracted	Analyzed	Analyst

* Analyte is not certified or the state of the samples origination does not offer certification for the Analyte.

Client:	Langan Engineering & Environmental Services (NYC)	**Sample ID:**	**25L1231-03**
Client Project:	170390601	**Date Received:**	12/22/2025
Client Sample ID:	AA01_121925	**Collection Date/Time:**	12/19/25 16:33

Lab ID:	**25L1231-03**	**Laboratory:**	ALS Environmental - Stratford
Analysis:	**Volatile Organic Compounds in Air by GC/MS**	**Matrix:**	Outdoor Ambient Air
Prep Method:	Sample Prepared by Method: EPA TO15 PREP		

Parameter	Result	Flag	MDL	RL	Dilution	Units	Reference Method	Extracted	Analyzed	Analyst
* 1,1,1,2-Tetrachloroethane	ND		0.18	0.58	0.841	ug/m³	EPA TO-15	12/23/25 8:00	12/30/25 04:51	YR
1,1,1-Trichloroethane	ND		0.16	0.46	0.841	ug/m³	EPA TO-15	12/23/25 8:00	12/30/25 04:51	YR
1,1,2,2-Tetrachloroethane	ND		0.16	0.58	0.841	ug/m³	EPA TO-15	12/23/25 8:00	12/30/25 04:51	YR
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		0.23	0.64	0.841	ug/m³	EPA TO-15	12/23/25 8:00	12/30/25 04:51	YR
1,1,2-Trichloroethane	ND		0.16	0.46	0.841	ug/m³	EPA TO-15	12/23/25 8:00	12/30/25 04:51	YR
1,1-Dichloroethane	ND		0.14	0.34	0.841	ug/m³	EPA TO-15	12/23/25 8:00	12/30/25 04:51	YR
1,1-Dichloroethylene	ND		0.14	0.17	0.841	ug/m³	EPA TO-15	12/23/25 8:00	12/30/25 04:51	YR
1,2,4-Trichlorobenzene	ND		0.24	31	0.841	ug/m³	EPA TO-15	12/23/25 8:00	12/30/25 04:51	YR
1,2,4-Trimethylbenzene	**1.2**		0.14	0.41	0.841	ug/m³	EPA TO-15	12/23/25 8:00	12/30/25 04:51	YR
1,2-Dibromoethane	ND		0.20	0.65	0.841	ug/m³	EPA TO-15	12/23/25 8:00	12/30/25 04:51	YR
1,2-Dichlorobenzene	ND		0.16	0.51	0.841	ug/m³	EPA TO-15	12/23/25 8:00	12/30/25 04:51	YR
1,2-Dichloroethane	ND		0.16	0.34	0.841	ug/m³	EPA TO-15	12/23/25 8:00	12/30/25 04:51	YR
1,2-Dichloropropane	ND		0.13	0.39	0.841	ug/m³	EPA TO-15	12/23/25 8:00	12/30/25 04:51	YR
1,2-Dichlorotetrafluoroethane	ND		0.30	0.59	0.841	ug/m³	EPA TO-15	12/23/25 8:00	12/30/25 04:51	YR
1,3,5-Trimethylbenzene	ND		0.063	0.41	0.841	ug/m³	EPA TO-15	12/23/25 8:00	12/30/25 04:51	YR
1,3-Butadiene	ND		0.058	0.56	0.841	ug/m³	EPA TO-15	12/23/25 8:00	12/30/25 04:51	YR
1,3-Dichlorobenzene	ND		0.14	0.51	0.841	ug/m³	EPA TO-15	12/23/25 8:00	12/30/25 04:51	YR
* 1,3-Dichloropropane	ND		0.12	0.39	0.841	ug/m³	EPA TO-15	12/23/25 8:00	12/30/25 04:51	YR
1,4-Dichlorobenzene	ND		0.12	0.51	0.841	ug/m³	EPA TO-15	12/23/25 8:00	12/30/25 04:51	YR
1,4-Dioxane	ND		0.32	1.5	0.841	ug/m³	EPA TO-15	12/23/25 8:00	12/30/25 04:51	YR
* ^2,2,4-Trimethylpentane	**2.4**		0.20	0.20	0.841	ug/m³	EPA TO-15	12/23/25 8:00	12/30/25 04:51	YR
2-Butanone	**1.5**		0.42	12	0.841	ug/m³	EPA TO-15	12/23/25 8:00	12/30/25 04:51	YR
* 2-Hexanone	ND		0.19	0.69	0.841	ug/m³	EPA TO-15	12/23/25 8:00	12/30/25 04:51	YR
3-Chloropropene	ND		0.11	1.3	0.841	ug/m³	EPA TO-15	12/23/25 8:00	12/30/25 04:51	YR
4-Methyl-2-pentanone	ND		0.15	0.34	0.841	ug/m³	EPA TO-15	12/23/25 8:00	12/30/25 04:51	YR
Acetone	**38**		1.0	10	0.841	ug/m³	EPA TO-15	12/23/25 8:00	12/30/25 04:51	YR
* ^Acrolein	ND		0.12	0.19	0.841	ug/m³	EPA TO-15	12/23/25 8:00	12/30/25 04:51	YR
Acrylonitrile	ND		1.7	9.1	0.841	ug/m³	EPA TO-15	12/23/25 8:00	12/30/25 04:51	YR
Benzene	**2.1**		0.097	0.27	0.841	ug/m³	EPA TO-15	12/23/25 8:00	12/30/25 04:51	YR
Benzyl chloride	ND		0.13	11	0.841	ug/m³	EPA TO-15	12/23/25 8:00	12/30/25 04:51	YR
Bromodichloromethane	ND		0.17	0.56	0.841	ug/m³	EPA TO-15	12/23/25 8:00	12/30/25 04:51	YR
Bromoform	ND		0.37	0.87	0.841	ug/m³	EPA TO-15	12/23/25 8:00	12/30/25 04:51	YR
Bromomethane	ND		0.14	0.33	0.841	ug/m³	EPA TO-15	12/23/25 8:00	12/30/25 04:51	YR
Carbon disulfide	ND		0.067	0.26	0.841	ug/m³	EPA TO-15	12/23/25 8:00	12/30/25 04:51	YR
Carbon tetrachloride	**0.53**		0.16	0.16	0.841	ug/m³	EPA TO-15	12/23/25 8:00	12/30/25 04:51	YR
Chlorobenzene	ND		0.15	0.39	0.841	ug/m³	EPA TO-15	12/23/25 8:00	12/30/25 04:51	YR
Chloroethane	ND		0.13	0.22	0.841	ug/m³	EPA TO-15	12/23/25 8:00	12/30/25 04:51	YR
Chloroform	ND		0.11	0.41	0.841	ug/m³	EPA TO-15	12/23/25 8:00	12/30/25 04:51	YR
Chloromethane	**1.2**		0.12	0.17	0.841	ug/m³	EPA TO-15	12/23/25 8:00	12/30/25 04:51	YR
cis-1,2-Dichloroethylene	ND		0.086	0.17	0.841	ug/m³	EPA TO-15	12/23/25 8:00	12/30/25 04:51	YR
cis-1,3-Dichloropropylene	ND		0.15	0.38	0.841	ug/m³	EPA TO-15	12/23/25 8:00	12/30/25 04:51	YR
Cyclohexane	**0.87**		0.20	0.29	0.841	ug/m³	EPA TO-15	12/23/25 8:00	12/30/25 04:51	YR
Dibromochloromethane	ND		0.29	0.72	0.841	ug/m³	EPA TO-15	12/23/25 8:00	12/30/25 04:51	YR

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Client:	Langan Engineering & Environmental Services (NYC)	**Sample ID:**	**25L1231-03**
Client Project:	170390601	**Date Received:**	12/22/2025
Client Sample ID:	AA01_121925	**Collection Date/Time:**	12/19/25 16:33

Lab ID:	**25L1231-03**	**Laboratory:**	ALS Environmental - Stratford
Analysis:	**Volatile Organic Compounds in Air by GC/MS**	**Matrix:**	Outdoor Ambient Air
Prep Method:	Sample Prepared by Method: EPA TO15 PREP		

Parameter	Result	Flag	MDL	RL	Dilution	Units	Reference Method	Extracted	Analyzed	Analyst
Dichlorodifluoromethane	**2.3**		0.23	0.42	0.841	ug/m³	EPA TO-15	12/23/25 8:00	12/30/25 04:51	YR
* Ethyl acetate	**21**		0.18	15	0.841	ug/m³	EPA TO-15	12/23/25 8:00	12/30/25 04:51	YR
Ethyl Benzene	**1.2**		0.12	0.37	0.841	ug/m³	EPA TO-15	12/23/25 8:00	12/30/25 04:51	YR
Hexachlorobutadiene	ND		0.34	0.90	0.841	ug/m³	EPA TO-15	12/23/25 8:00	12/30/25 04:51	YR
Isopropanol	**3.8**		0.050	1.2	0.841	ug/m³	EPA TO-15	12/23/25 8:00	12/30/25 04:51	YR
Isopropylbenzene	ND		0.074	0.41	0.841	ug/m³	EPA TO-15	12/23/25 8:00	12/30/25 04:51	YR
Methyl Methacrylate	ND		0.21	0.34	0.841	ug/m³	EPA TO-15	12/23/25 8:00	12/30/25 04:51	YR
Methyl tert-butyl ether (MTBE)	ND		0.093	0.30	0.841	ug/m³	EPA TO-15	12/23/25 8:00	12/30/25 04:51	YR
Methylene chloride	**0.50**		0.098	1.8	0.841	ug/m³	EPA TO-15	12/23/25 8:00	12/30/25 04:51	YR
* ^Naphthalene	ND		0.30	4.4	0.841	ug/m³	EPA TO-15	12/23/25 8:00	12/30/25 04:51	YR
* n-Butylbenzene	ND		0.14	0.46	0.841	ug/m³	EPA TO-15	12/23/25 8:00	12/30/25 04:51	YR
n-Heptane	ND		0.13	0.34	0.841	ug/m³	EPA TO-15	12/23/25 8:00	12/30/25 04:51	YR
n-Hexane	**2.4**		0.093	0.30	0.841	ug/m³	EPA TO-15	12/23/25 8:00	12/30/25 04:51	YR
* n-Propylbenzene	ND		0.11	0.41	0.841	ug/m³	EPA TO-15	12/23/25 8:00	12/30/25 04:51	YR
o-Xylene	**1.3**		0.13	0.37	0.841	ug/m³	EPA TO-15	12/23/25 8:00	12/30/25 04:51	YR
p- & m- Xylenes	**3.4**		0.19	0.73	0.841	ug/m³	EPA TO-15	12/23/25 8:00	12/30/25 04:51	YR
* p-Ethyltoluene	ND		0.14	0.41	0.841	ug/m³	EPA TO-15	12/23/25 8:00	12/30/25 04:51	YR
* p-Isopropyltoluene	ND		0.084	0.46	0.841	ug/m³	EPA TO-15	12/23/25 8:00	12/30/25 04:51	YR
* Propylene	**2.0**		0.083	0.14	0.841	ug/m³	EPA TO-15	12/23/25 8:00	12/30/25 04:51	YR
* sec-Butylbenzene	ND		0.12	0.46	0.841	ug/m³	EPA TO-15	12/23/25 8:00	12/30/25 04:51	YR
Styrene	ND		0.11	0.36	0.841	ug/m³	EPA TO-15	12/23/25 8:00	12/30/25 04:51	YR
* tert-Butylbenzene	ND		0.18	0.46	0.841	ug/m³	EPA TO-15	12/23/25 8:00	12/30/25 04:51	YR
Tetrachloroethylene	ND		0.14	0.57	0.841	ug/m³	EPA TO-15	12/23/25 8:00	12/30/25 04:51	YR
* Tetrahydrofuran	ND		0.083	0.50	0.841	ug/m³	EPA TO-15	12/23/25 8:00	12/30/25 04:51	YR
Toluene	**13**		0.13	0.32	0.841	ug/m³	EPA TO-15	12/23/25 8:00	12/30/25 04:51	YR
trans-1,2-Dichloroethylene	ND		0.080	0.33	0.841	ug/m³	EPA TO-15	12/23/25 8:00	12/30/25 04:51	YR
trans-1,3-Dichloropropylene	ND		0.15	0.38	0.841	ug/m³	EPA TO-15	12/23/25 8:00	12/30/25 04:51	YR
Trichloroethylene	ND		0.14	0.14	0.841	ug/m³	EPA TO-15	12/23/25 8:00	12/30/25 04:51	YR
Trichlorofluoromethane (Freon 11)	**1.4**		0.17	0.47	0.841	ug/m³	EPA TO-15	12/23/25 8:00	12/30/25 04:51	YR
Vinyl acetate	ND		0.15	0.30	0.841	ug/m³	EPA TO-15	12/23/25 8:00	12/30/25 04:51	YR
Vinyl bromide	ND		0.13	0.37	0.841	ug/m³	EPA TO-15	12/23/25 8:00	12/30/25 04:51	YR
Vinyl Chloride	ND		0.086	0.11	0.841	ug/m³	EPA TO-15	12/23/25 8:00	12/30/25 04:51	YR
Xylenes, Total	**4.7**		0.30	1.1	0.841	ug/m³	EPA TO-15	12/23/25 8:00	12/30/25 04:51	YR

* Analyte is not certified or the state of the samples origination does not offer certification for the Analyte.

CERTIFICATE OF ANALYSIS

Laboratory:	ALS Environmental - Stratford	SDG:	25L1231
Client:	Langan Engineering & Environmental Services (NYC)	Project:	170390601

Volatile Organic Compounds in Air by GC/MS

Client Sample Id:	Lab Sample Id:	Matrix:
SSV01_121925	25L1231-01	Soil Vapor
IA01_121925	25L1231-02	Indoor Ambient Air
IA01_121925	25L1231-02RE1	Indoor Ambient Air
AA01_121925	25L1231-03	Outdoor Ambient Air

Certified Analyses included in this Report

Analyte	CAS #	Certifications
EPA TO-15 in Air		
1,1,1-Trichloroethane	71-55-6	NJDEP-NY037,NYSDOH-NY12058
1,1,2,2-Tetrachloroethane	79-34-5	NJDEP-NY037,NYSDOH-NY12058
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	76-13-1	NJDEP-NY037,NYSDOH-NY12058
1,1,2-Trichloroethane	79-00-5	NJDEP-NY037,NYSDOH-NY12058
1,1-Dichloroethane	75-34-3	NJDEP-NY037,NYSDOH-NY12058
1,1-Dichloroethylene	75-35-4	NJDEP-NY037,NYSDOH-NY12058
1,2,4-Trichlorobenzene	120-82-1	NJDEP-NY037,NYSDOH-NY12058
1,2,4-Trimethylbenzene	95-63-6	NJDEP-NY037,NYSDOH-NY12058
1,2-Dibromoethane	106-93-4	NJDEP-NY037,NYSDOH-NY12058
1,2-Dichlorobenzene	95-50-1	NJDEP-NY037,NYSDOH-NY12058
1,2-Dichloroethane	107-06-2	NJDEP-NY037,NYSDOH-NY12058
1,2-Dichloropropane	78-87-5	NJDEP-NY037,NYSDOH-NY12058
1,2-Dichlorotetrafluoroethane	76-14-2	NJDEP-NY037,NYSDOH-NY12058
1,3,5-Trimethylbenzene	108-67-8	NJDEP-NY037,NYSDOH-NY12058
1,3-Butadiene	106-99-0	NJDEP-NY037,NYSDOH-NY12058
1,3-Dichlorobenzene	541-73-1	NJDEP-NY037,NYSDOH-NY12058
1,4-Dichlorobenzene	106-46-7	NJDEP-NY037,NYSDOH-NY12058
1,4-Dioxane	123-91-1	NJDEP-NY037,NYSDOH-NY12058
2-Butanone	78-93-3	NJDEP-NY037,NYSDOH-NY12058
3-Chloropropene	107-05-1	NJDEP-NY037,NYSDOH-NY12058
4-Methyl-2-pentanone	108-10-1	NJDEP-NY037,NYSDOH-NY12058
Acetone	67-64-1	NJDEP-NY037,NYSDOH-NY12058
Acrylonitrile	107-13-1	NJDEP-NY037,NYSDOH-NY12058
Benzene	71-43-2	NJDEP-NY037,NYSDOH-NY12058
Benzyl chloride	100-44-7	NJDEP-NY037,NYSDOH-NY12058
Bromodichloromethane	75-27-4	NJDEP-NY037,NYSDOH-NY12058
Bromoform	75-25-2	NJDEP-NY037,NYSDOH-NY12058
Bromomethane	74-83-9	NJDEP-NY037,NYSDOH-NY12058
Carbon disulfide	75-15-0	NJDEP-NY037,NYSDOH-NY12058
Carbon tetrachloride	56-23-5	NJDEP-NY037,NYSDOH-NY12058
Chlorobenzene	108-90-7	NJDEP-NY037,NYSDOH-NY12058
Chloroethane	75-00-3	NJDEP-NY037,NYSDOH-NY12058
Chloroform	67-66-3	NJDEP-NY037,NYSDOH-NY12058
Chloromethane	74-87-3	NJDEP-NY037,NYSDOH-NY12058
cis-1,2-Dichloroethylene	156-59-2	NJDEP-NY037,NYSDOH-NY12058
cis-1,3-Dichloropropylene	10061-01-5	NJDEP-NY037,NYSDOH-NY12058
Cyclohexane	110-82-7	NJDEP-NY037,NYSDOH-NY12058
Dibromochloromethane	124-48-1	NJDEP-NY037,NYSDOH-NY12058
Dichlorodifluoromethane	75-71-8	NJDEP-NY037,NYSDOH-NY12058
Ethyl Benzene	100-41-4	NJDEP-NY037,NYSDOH-NY12058
Hexachlorobutadiene	87-68-3	NJDEP-NY037,NYSDOH-NY12058
Isopropanol	67-63-0	NJDEP-NY037,NYSDOH-NY12058
Isopropylbenzene	98-82-8	NJDEP-NY037,NYSDOH-NY12058
Methyl Methacrylate	80-62-6	NJDEP-NY037,NYSDOH-NY12058
Methyl tert-butyl ether (MTBE)	1634-04-4	NJDEP-NY037,NYSDOH-NY12058
Methylene chloride	75-09-2	NJDEP-NY037,NYSDOH-NY12058
n-Heptane	142-82-5	NJDEP-NY037,NYSDOH-NY12058
n-Hexane	110-54-3	NJDEP-NY037,NYSDOH-NY12058
o-Xylene	95-47-6	NJDEP-NY037,NYSDOH-NY12058
p- & m- Xylenes	179601-23-1	NJDEP-NY037,NYSDOH-NY12058
Styrene	100-42-5	NJDEP-NY037,NYSDOH-NY12058
Tetrachloroethylene	127-18-4	NJDEP-NY037,NYSDOH-NY12058
Toluene	108-88-3	NJDEP-NY037,NYSDOH-NY12058
trans-1,2-Dichloroethylene	156-60-5	NJDEP-NY037,NYSDOH-NY12058
trans-1,3-Dichloropropylene	10061-02-6	NJDEP-NY037,NYSDOH-NY12058
Trichloroethylene	79-01-6	NJDEP-NY037,NYSDOH-NY12058
Trichlorofluoromethane (Freon 11)	75-69-4	NJDEP-NY037,NYSDOH-NY12058
Vinyl acetate	108-05-4	NJDEP-NY037,NYSDOH-NY12058
Vinyl bromide	593-60-2	NJDEP-NY037,NYSDOH-NY12058
Vinyl Chloride	75-01-4	NJDEP-NY037,NYSDOH-NY12058
Xylenes, Total	1330-20-7	NJDEP-NY037,NYSDOH-NY12058

List of Certifications

Code	Description	Number	Expires
NJDEP-NY037	NJDEP Certification - Queens	NY037	06/30/2026
NYSDOH-NY12058	NYSDOH NELAC/ELAP Program - Queens	NY ELAP-12058	04/01/2026

Narrative Contents Summary

This Work Order Narrative includes the following items for full review of any quality issues encountered with samples and their analyses for the parameters requested:

1. Sample Receipt Information, including a Sample Summary which cross references your sample ID with Analytical sample ID, identifying the matrix and Date/Time collected and received.
2. Analysis Methodologies employed for the work order
3. Any Sample Issues encountered such as Holding time exceedances, improper containers/preservation, or any related issue with sample integrity
4. Specific Analysis Findings in order: Volatiles, Semi-Volatiles, Pesticides/PCBs, Herbicides, other GC parameters, Metals, Mercury, Wet Chemistry.
5. Analysis Findings Include:

    - Analyte qualifier summary
    - Samples and associated Calibration Curve(s)
    - Calibration Outliers Discussion/Tabular presentation and affected samples
    - Initial Calibration Verification (ICV) information
    - Batch QC Sample Performance (Blanks, Blank Spikes (BS), MS/MSD)
    - Internal Standard Performance
    - Surrogate Performance
    - Example Calculations

Work Order Narrative

Analytical Work Order No.: 25L1231

Client : Langan Engineering & Environmental Services (NYC)

Client Project ID : 170390601

Prepared for : Kristen Wexler

1.0) Introduction

This work order Narrative applies to the following samples submitted to our laboratory on: 12/22/2025 10:42 AM

3 Air sample(s) were received intact unless otherwise noted.

Sample Summary

SampleName	Lab Number	Matrix	Date Collected	Date Received
SSV01_121925	25L1231-01	Air	12/19/2025 4:27 PM	12/22/2025 10:42 AM
IA01_121925	25L1231-02	Air	12/19/2025 4:15 PM	12/22/2025 10:42 AM
AA01_121925	25L1231-03	Air	12/19/2025 4:33 PM	12/22/2025 10:42 AM

WorkOrder Comments

Analytical Work Order Narrative

2.0 Methodology

Analysis Class	*Preparation Method*	*Analysis Methodology*
AIR	EPA TO15 PREP	EPA TO-15

3.0 Sample Issues

No issues were encountered with the samples submitted other than those detailed below.

4.0 Analysis Issues

EPA TO-15

Q_A_Volatile Organics, EPA TO15 Full List

No problems were encountered with analysis of the samples, other than detailed below.

Initial Calibration : SL50019

Samples and QC analyzed using this calibration / sequence.

Calibration	Batch	Sequence	SampleName	LabNumber	Instrument	File ID
SL50019	S5L0903	S5L0903	Secondary Cal Check	S5L0903-SCV1	TO15_AIR3	TV034051.D
SL50019	S5L2929	S5L2929	Calibration Check	S5L2929-CCV1	TO15_AIR3	TV034380.D
SL50019	BL51829	S5L2929	LCS	BL51829-BS1	TO15_AIR3	TV034381.D
SL50019	BL51829	S5L2929	Blank	BL51829-BLK1	TO15_AIR3	TV034383.D
SL50019	BL51829	S5L2929	SSV01_121925	25L1231-01	TO15_AIR3	TV034402.D
SL50019	BL51829	S5L2929	IA01_121925	25L1231-02	TO15_AIR3	TV034403.D
SL50019	BL51829	S5L2929	AA01_121925	25L1231-03	TO15_AIR3	TV034404.D
SL50019	S5L3118	S5L3118	Calibration Check	S5L3118-CCV1	TO15_AIR3	TV034412.D
SL50019	BL51984	S5L3118	LCS	BL51984-BS1	TO15_AIR3	TV034413.D
SL50019	BL51984	S5L3118	Blank	BL51984-BLK1	TO15_AIR3	TV034415.D
SL50019	S5L3118	S5L3118	Low Cal Check	S5L3118-LCV1	TO15_AIR3	TV034416.D
SL50019	S5L3118	S5L3118	Low Cal Check	S5L3118-LCV2	TO15_AIR3	TV034417.D
SL50019	BL51984	S5L3118	IA01_121925	25L1231-02RE1	TO15_AIR3	TV034424.D

4.0 Analysis Issues

Initial calibration for ***EPA TO-15*** ***exceeded method guidelines.***

Calibration	Intrument	Calibration Date	File ID
SL50019	TO15_AIR3	12/5/2025 4:22:23 PM	TV034037.D
SL50019	TO15_AIR3	12/5/2025 4:22:23 PM	TV034037.D

Analyte	RSD%	RSDLim	<MinRRF	RRFLim	CorrCoeff	CCOut	SIM	CAL curve
1,2,4-Trichlorobenzene	**33.32**	30						Avg
Benzyl chloride	**37.57**	30						Avg
ISTD: 1,4-Difluorobenzene	**0.00**	30	**0.0000**	0.05				Avg
ISTD: Bromochloromethane	**0.00**	30	**0.0000**	0.05				Avg
ISTD: d5-Chlorobenzene	**0.00**	30	**0.0000**	0.05				Avg

The following QC and or client samples were affected:

SampleName	LabNumber	SourceSample	File ID
Secondary Cal Check	S5L0903-SCV1		TV034051.D
Calibration Check	S5L2929-CCV1		TV034380.D
LCS	BL51829-BS1		TV034381.D
Blank	BL51829-BLK1		TV034383.D
SSV01_121925	25L1231-01		TV034402.D
IA01_121925	25L1231-02		TV034403.D
AA01_121925	25L1231-03		TV034404.D
Calibration Check	S5L3118-CCV1		TV034412.D
LCS	BL51984-BS1		TV034413.D
Blank	BL51984-BLK1		TV034415.D
Low Cal Check	S5L3118-LCV1		TV034416.D
Low Cal Check	S5L3118-LCV2		TV034417.D

EPA TO-15

Initial Calibration Verification-

The initial calibration verification for analytical method EPA TO-15

All target analytes recovered within method limits

Continuing Calibration Verification-

Calibration	Sequence	LabNumber	File ID	Date / Time
SL50019	S5L2929	S5L2929-CCV1	TV034380.D	12/29/25 10:14
SL50019	S5L3118	S5L3118-CCV1	TV034412.D	12/30/25 11:00

The continuing calibration verification recovered within method limits.

Analytical Work Order Narrative

EPA TO-15

Batch QC

Method Blank-

	Batch	Sequence	Instrument	Blank	FileID
AIR	BL51829	S5L2929	TO15_AIR3	BL51829-BLK1	TV034383.D
AIR	BL51984	S5L3118	TO15_AIR3	BL51984-BLK1	TV034415.D

Sequence	SampleName	LabNumber	Matrix	Analyte	Result	MRL	RptUnits
S5L3118	Blank	BL51984-BLK1	Air	Isopropanol	0.37	1.5	ug/m³

The following QC and or client samples had positive(s) in associated blanks:

Batch	LabNumber	SampleName	File ID
BL51984	BL51984-BS1	LCS	TV034413.D

Laboratory Control Sample (LCS) or Standard Reference Material (SRM)-

Were run as batch QC for this project. Please refer to the Quality Control Data attached to this report for bias information.

Calibration	Sequence	LabNumber	SampleName	File ID
SL50019	5L2929	BL51829-BS1	LCS	TV034381.D
SL50019	5L3118	BL51984-BS1	LCS	TV034413.D

EPA TO-15

Dilutions:

	SpecificMethod	Batch	SampleName	LabNumber	Dilution
	EPA TO-15	BL51829	SSV01_121925	25L1231-01	1.661
	EPA TO-15	BL51984	IA01_121925	25L1231-02RE1	16.61

Analytical Work Order Narrative

EPA TO-15

Internal Standards / Surrogates

Internal Standards Issues:

Batch	Instrument	Calibration	SampleName	LabNumber	Analyte	ISArea%	ISCVRTDiff
S5L0903	TO15_AIR3	**SL50019**	Secondary Cal Chec	S5L0903-SCV1	ISTD: Bromochloromethane	0	-0.0030
BL51829	TO15_AIR3	**SL50019**	AA01_121925	25L1231-03	ISTD: Bromochloromethane	0	-0.0030
BL51984	TO15_AIR3	**SL50019**	Blank	BL51984-BLK1	ISTD: Bromochloromethane	0	-0.0030
BL51829	TO15_AIR3	**SL50019**	IA01_121925	25L1231-02	ISTD: Bromochloromethane	0	0.0040
BL51984	TO15_AIR3	**SL50019**	IA01_121925	25L1231-02RE1	ISTD: Bromochloromethane	0	-0.0030
BL51829	TO15_AIR3	**SL50019**	SSV01_121925	25L1231-01	ISTD: Bromochloromethane	0	0.0000
BL51984	TO15_AIR3	**SL50019**	LCS	BL51984-BS1	ISTD: Bromochloromethane	0	0.0000
BL51829	TO15_AIR3	**SL50019**	Blank	BL51829-BLK1	ISTD: Bromochloromethane	0	0.0000
S5L3118	TO15_AIR3	**SL50019**	Low Cal Check	S5L3118-LCV1	ISTD: Bromochloromethane	0	-0.0030
BL51829	TO15_AIR3	**SL50019**	LCS	BL51829-BS1	ISTD: Bromochloromethane	0	0.0030
S5L3118	TO15_AIR3	**SL50019**	Low Cal Check	S5L3118-LCV2	ISTD: Bromochloromethane	0	0.0000
BL51829	TO15_AIR3	**SL50019**	SSV01_121925	25L1231-01	ISTD: 1,4-Difluorobenzene	0	0.0000
BL51829	TO15_AIR3	**SL50019**	LCS	BL51829-BS1	ISTD: 1,4-Difluorobenzene	0	0.0000
BL51829	TO15_AIR3	**SL50019**	Blank	BL51829-BLK1	ISTD: 1,4-Difluorobenzene	0	-0.0030
BL51829	TO15_AIR3	**SL50019**	AA01_121925	25L1231-03	ISTD: 1,4-Difluorobenzene	0	0.0000
BL51829	TO15_AIR3	**SL50019**	IA01_121925	25L1231-02	ISTD: 1,4-Difluorobenzene	0	0.0000
S5L0903	TO15_AIR3	**SL50019**	Secondary Cal Chec	S5L0903-SCV1	ISTD: 1,4-Difluorobenzene	0	-0.0030
S5L3118	TO15_AIR3	**SL50019**	Low Cal Check	S5L3118-LCV2	ISTD: 1,4-Difluorobenzene	0	-0.0030
BL51984	TO15_AIR3	**SL50019**	Blank	BL51984-BLK1	ISTD: 1,4-Difluorobenzene	0	-0.0030
S5L3118	TO15_AIR3	**SL50019**	Low Cal Check	S5L3118-LCV1	ISTD: 1,4-Difluorobenzene	0	-0.0030
BL51984	TO15_AIR3	**SL50019**	IA01_121925	25L1231-02RE1	ISTD: 1,4-Difluorobenzene	0	-0.0070
BL51984	TO15_AIR3	**SL50019**	LCS	BL51984-BS1	ISTD: 1,4-Difluorobenzene	0	0.0000
BL51829	TO15_AIR3	**SL50019**	LCS	BL51829-BS1	ISTD: d5-Chlorobenzene	0	0.0000
S5L3118	TO15_AIR3	**SL50019**	Low Cal Check	S5L3118-LCV1	ISTD: d5-Chlorobenzene	0	0.0000
BL51829	TO15_AIR3	**SL50019**	Blank	BL51829-BLK1	ISTD: d5-Chlorobenzene	0	-0.0030
S5L0903	TO15_AIR3	**SL50019**	Secondary Cal Chec	S5L0903-SCV1	ISTD: d5-Chlorobenzene	0	-0.0030
BL51984	TO15_AIR3	**SL50019**	LCS	BL51984-BS1	ISTD: d5-Chlorobenzene	0	0.0000
BL51984	TO15_AIR3	**SL50019**	IA01_121925	25L1231-02RE1	ISTD: d5-Chlorobenzene	0	0.0000
BL51829	TO15_AIR3	**SL50019**	IA01_121925	25L1231-02	ISTD: d5-Chlorobenzene	0	-0.0030
BL51984	TO15_AIR3	**SL50019**	Blank	BL51984-BLK1	ISTD: d5-Chlorobenzene	0	0.0000
BL51829	TO15_AIR3	**SL50019**	AA01_121925	25L1231-03	ISTD: d5-Chlorobenzene	0	-0.0030
S5L3118	TO15_AIR3	**SL50019**	Low Cal Check	S5L3118-LCV2	ISTD: d5-Chlorobenzene	0	0.0000
BL51829	TO15_AIR3	**SL50019**	SSV01_121925	25L1231-01	ISTD: d5-Chlorobenzene	0	-0.0030

Analytical Laboratories, Inc.
Formulae Used for Sample Calculations

1. Volatiles in Air-ppbv

Cx (ppbv) = Compound concentration, ppbv (parts per billion by volume)

$$Cx = \frac{(Ax)(Cis)(DF)}{(Ais)(RRF)}$$

2. Volatiles in Air-ug/m³

Cx (ug/m³)= Compound concentration in ug/m³

$$Cx\ (ug/m^3) = \frac{(ppbv \times Molecular\ wt.)}{(24.45)}$$

3. Volatile Organics (water and soil), ug/L or ug/kg

Soils/Waters

$$Cx = \frac{(Ax)(IS)(DF)}{(Ais)(RRF)(V)(\%\ solids)}$$

Medium Level Soils

$$Cx = \frac{(Ax)(IS)(VT)(1000)(DF)}{(Ais)(RRF)(VA)(V)(\%\ solids)}$$

4. Semi-Volatiles (waters and soils)

$$Cx = \frac{(Ax)(IS)(VE)(DF)}{(Ais)(RRF)(Volume\ injected,\ uL)(V)(\%\ solids)}$$

5. Pesticides/PCB (waters and soils), DRO, CTETPH

$$Cx = \frac{(Ax)(VE)(DF)}{(CF)(Volume\ injected,\ uL)(V)(\%\ solids)}$$

WHERE:
Cx = concentration of analyte as ug/L or ug/kg
Ax = Area of the characteristic ion for the compound to be measured, counts.
Ais = Area of the characteristic ion for the specific internal standard, counts.
IS = Concentration of the internal standard spiking mixture, ng
RRF = Mean relative response factor from the initial calibration.
DF = Dilution factor calculated as described in section 2. If no dilution is performed, DF= 1
V = Volume for liquids in mL, weight for soils/solids in grams.
VA = volume of MeOH aliquot for medium level soils
VE = final volume of concentrated extract
VT = volume of MeOH for volatiles medium level soils
CF = calibration factor for external calibration used in GC pest/pcb
Cis = Concentration of the internal standard spiking mixture, ppbv

Analytical Batch Summary

Batch ID: BL51829	**Preparation Method:** EPA TO15 PREP	**Prepared By:** YR
Sample ID	**Client Sample ID**	**Preparation Date**
25L1231-01	SSV01_121925	12/23/25
25L1231-02	IA01_121925	12/23/25
25L1231-03	AA01_121925	12/23/25
BL51829-BLK1	Blank	12/28/25
BL51829-BS1	LCS	12/28/25

Batch ID: BL51984	**Preparation Method:** EPA TO15 PREP	**Prepared By:** YR
Sample ID	**Client Sample ID**	**Preparation Date**
25L1231-02RE1	IA01_121925	12/30/25
BL51984-BLK1	Blank	12/30/25
BL51984-BS1	LCS	12/30/25

HOLDING TIME SUMMARY

EPA TO-15

Laboratory: ALS Environmental - Stratford **SDG:** 25L1231

Client: Langan Engineering & Environmental Services (NYC) **Project:** 170390601

Sample Name	Date Sampled	Date Received	Preparation Holding Time (Days)	Preparation Date	Preparation Expiration Date	Analysis Holding Time (Days)	Analysis Date	Analysis Expiration Date	Q
SSV01_121925	12/19/25 16:27	12/22/25 10:42	30.00	12/23/25 08:00	01/18/26 16:27	30.00	12/30/25 03:19	01/18/26 16:27	
IA01_121925	12/19/25 16:15	12/22/25 10:42	30.00	12/23/25 08:00	01/18/26 16:15	30.00	12/30/25 04:05	01/18/26 16:15	
IA01_121925	12/19/25 16:15	12/22/25 10:42	30.00	12/30/25 08:00	01/18/26 16:15	30.00	12/30/25 20:38	01/18/26 16:15	
AA01_121925	12/19/25 16:33	12/22/25 10:42	30.00	12/23/25 08:00	01/18/26 16:33	30.00	12/30/25 04:51	01/18/26 16:33	

Definitions and Other Explanations

Summary of Non-Conformance and Data Qualifiers Related

this Work Order: 25L1231

/\	Analyte is not certified but the state of sample origination offer certification for the Analyte
*	Analyte is not certified or the state of the samples origination does not offer certification for the Analyte.
ND	NOT DETECTED - the analyte is not detected at the Reported to level (LOQ/RL or LOD/MDL)
RL	REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.
LOQ	LIMIT OF QUANTITATION - the minimum concentration of a target analyte that can be reported within a specified degree of confidence. This is the lowest point in an analyte calibration curve that has been subjected to all steps of the processing/analysis and verified to meet defined criteria. This is based upon NELAC 2009 Standards and applies to all analyses.
LOD	LIMIT OF DETECTION - a verified estimate of the minimum concentration of a substance in a given matrix that an analytical process can reliably detect. This is based upon NELAC 2009 Standards and applies to all analyses conducted under the auspices of EPA SW-846.
MDL	METHOD DETECTION LIMIT - a statistically derived estimate of the minimum amount of a substance an analytical system can reliably detect with a 99% confidence that the concentration of the substance is greater than zero. This is based upon 40 CFR Part 136 Appendix B and applies only to EPA 600 and 200 series methods.
MCL	MAXIMUM CONTAMINANT LEVEL for drinking water, which is the highest level of a contaminant allowed in public water systems. These are legally enforceable health-based standards set by the U.S. Environmental Protection Agency (EPA) to protect public health from contaminants in drinking water.
Secondary MCL	SECONDARY MCL (Maximum Contaminant Level) is a non-enforceable guideline for contaminants in drinking water that affect aesthetic qualities like taste, odor, and color, or that cause cosmetic effects like staining. These are intended to protect public welfare and are not based on direct health effects, though states can choose to make them mandatory.
Reported to	This indicates that the data for a particular analysis is reported to either the LOD/MDL, or the LOQ/RL. In cases where the "Reported to" is located above the LOD/MDL, any value between this and the LOQ represents an estimated value which is "J" flagged accordingly. This applies to volatile and semi-volatile target compounds only.
NR	Not reported
RPD	Relative Percent Difference
Wet	The data has been reported on an as-received (wet weight) basis
Low Bias	Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit. The data user should take note that this analyte may be biased low but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
High Bias	High Bias flag indicates that the recovery of the flagged analyte is above the laboratory or regulatory upper control limit. The data user should take note that this analyte may be biased high but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
Non-Dir.	Non-dir. flag (Non-Directional Bias) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is outside the laboratory or regulatory control limit. This alerts the data user where the MS and MSD are from site-specific samples that the RPD is high due to either non-homogeneous distribution of target analyte between the MS/MSD or indicates poor reproducibility for other reasons.

If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two. For this reason, ALS reports the combined result for n-nitrosodiphenylamine and diphenylamine for either of these compounds as a combined concentration as Diphenylamine.

If Total PCBs are detected and the target aroclors reported are "Not detected", the Total PCB value is reported due to the presence of either or both Aroclors 1262 and 1268 which are non-target aroclors for some regulatory lists.

2-chloroethylvinyl ether readily breaks down under acidic conditions. Samples that are acid preserved, including standards will exhibit breakdown. The data user should take note.

Certification for pH is no longer offered by NYDOH ELAP.

Semi-Volatile and Volatile analyses are reported down to the LOD/MDL, with values between the LOD/MDL and the LOQ being "J" flagged as estimated results.

For analyses by EPA SW-846-8270D, the Limit of Quantitation (LOQ) reported for benzidine is based upon the lowest standard used for calibration and is not a verified LOQ due to this compound's propensity for oxidative losses during extraction/concentration procedures and non-reproducible chromatographic performance.

DATA PACKAGE

SDG: 25L1231

Client: Langan Engineering & Environmental Services (NY Project: 170390601

METHOD DETECTION AND REPORTING LIMITS

EPA TO-15

Laboratory: ALS Environmental - Stratford **SDG:** 25L1231

Client: Langan Engineering & Environmental Services (NYC) **Project:** 170390601

Matrix: Air **Instrument:** TO15_AIR3

Analyte	LOD	LOQ	Units
1,1,1,2-Tetrachloroethane	0.22	0.7	ug/m³
1,1,1-Trichloroethane	0.19	0.55	ug/m³
1,1,2,2-Tetrachloroethane	0.2	0.7	ug/m³
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.28	0.78	ug/m³
1,1,2-Trichloroethane	0.2	0.55	ug/m³
1,1-Dichloroethane	0.17	0.41	ug/m³
1,1-Dichloroethylene	0.18	0.2	ug/m³
1,2,4-Trichlorobenzene	0.29	38	ug/m³
1,2,4-Trimethylbenzene	0.17	0.5	ug/m³
1,2-Dibromoethane	0.25	0.78	ug/m³
1,2-Dichlorobenzene	0.19	0.61	ug/m³
1,2-Dichloroethane	0.19	0.41	ug/m³
1,2-Dichloropropane	0.16	0.47	ug/m³
1,2-Dichlorotetrafluoroethane	0.36	0.71	ug/m³
1,3,5-Trimethylbenzene	0.077	0.5	ug/m³
1,3-Butadiene	0.07	0.68	ug/m³
1,3-Dichlorobenzene	0.17	0.61	ug/m³
1,3-Dichloropropane	0.15	0.47	ug/m³
1,4-Dichlorobenzene	0.15	0.61	ug/m³
1,4-Dioxane	0.38	1.8	ug/m³
2,2,4-Trimethylpentane	0.24	0.24	ug/m³
2-Butanone	0.51	15	ug/m³
2-Hexanone	0.22	0.83	ug/m³
3-Chloropropene	0.13	1.6	ug/m³
4-Methyl-2-pentanone	0.18	0.42	ug/m³
Acetone	1.3	12	ug/m³
Acrolein	0.14	0.23	ug/m³
Acrylonitrile	2.1	11	ug/m³
Benzene	0.12	0.32	ug/m³
Benzyl chloride	0.16	13	ug/m³
Bromodichloromethane	0.2	0.68	ug/m³
Bromoform	0.44	1.1	ug/m³
Bromomethane	0.17	0.39	ug/m³

METHOD DETECTION AND REPORTING LIMITS

EPA TO-15

Laboratory: ALS Environmental - Stratford **SDG:** 25L1231

Client: Langan Engineering & Environmental Services (NYC) **Project:** 170390601

Matrix: Air **Instrument:** TO15_AIR3

Analyte	LOD	LOQ	Units
Carbon disulfide	0.081	0.32	ug/m³
Carbon tetrachloride	0.19	0.19	ug/m³
Chlorobenzene	0.18	0.47	ug/m³
Chloroethane	0.15	0.27	ug/m³
Chloroform	0.14	0.5	ug/m³
Chloromethane	0.15	0.21	ug/m³
cis-1,2-Dichloroethylene	0.1	0.2	ug/m³
cis-1,3-Dichloropropylene	0.18	0.46	ug/m³
Cyclohexane	0.25	0.35	ug/m³
Dibromochloromethane	0.35	0.87	ug/m³
Dichlorodifluoromethane	0.28	0.5	ug/m³
Ethyl acetate	0.22	18	ug/m³
Ethyl Benzene	0.15	0.44	ug/m³
Hexachlorobutadiene	0.41	1.1	ug/m³
Isopropanol	0.06	1.5	ug/m³
Isopropylbenzene	0.09	0.5	ug/m³
Methyl Methacrylate	0.26	0.42	ug/m³
Methyl tert-butyl ether (MTBE)	0.11	0.37	ug/m³
Methylene chloride	0.12	2.1	ug/m³
Naphthalene	0.37	5.3	ug/m³
n-Butylbenzene	0.17	0.56	ug/m³
n-Heptane	0.16	0.42	ug/m³
n-Hexane	0.11	0.36	ug/m³
n-Propylbenzene	0.13	0.5	ug/m³
o-Xylene	0.15	0.44	ug/m³
p- & m- Xylenes	0.23	0.88	ug/m³
p-Ethyltoluene	0.18	0.5	ug/m³
p-Isopropyltoluene	0.1	0.56	ug/m³
Propylene	0.1	0.18	ug/m³
sec-Butylbenzene	0.14	0.56	ug/m³
Styrene	0.13	0.43	ug/m³
tert-Butylbenzene	0.21	0.56	ug/m³
Tetrachloroethylene	0.16	0.69	ug/m³
Tetrahydrofuran	0.1	0.6	ug/m³

METHOD DETECTION AND REPORTING LIMITS

EPA TO-15

Laboratory: ALS Environmental - Stratford **SDG:** 25L1231

Client: Langan Engineering & Environmental Services (NYC) **Project:** 170390601

Matrix: Air **Instrument:** TO15_AIR3

Analyte	LOD	LOQ	Units
Toluene	0.15	0.38	ug/m³
trans-1,2-Dichloroethylene	0.097	0.4	ug/m³
trans-1,3-Dichloropropylene	0.18	0.46	ug/m³
Trichloroethylene	0.16	0.16	ug/m³
Trichlorofluoromethane (Freon 11)	0.21	0.57	ug/m³
Vinyl acetate	0.18	0.36	ug/m³
Vinyl bromide	0.16	0.44	ug/m³
Vinyl Chloride	0.1	0.13	ug/m³
Xylenes, Total	0.36	1.3	ug/m³

Sample Information

Client Sample ID: SSV01_121925 **Sample ID: 25L1231-01**

Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25L1231	170390601	Soil Vapor	December 19, 2025 4:27 pm	12/22/2025

Volatile Organic Compounds in Air by GC/MS

Sample Prepared by Method: EPA TO15 PREP

Results Reported to MDL

CAS No.	Parameter	Result	Flag	Units	RL	MDL	Dilution	Reference Method	Prepared	Analyzed	Analyst
540-84-1	* ^2,2,4-Trimethylpentane	ND		ug/m³	0.39	0.39	1.661	EPA TO-15	12/23/2025 08:00	12/30/2025 03:19	YR
107-02-8	*** ^Acrolein**	1.6		ug/m³	0.38	0.24	1.661	EPA TO-15	12/23/2025 08:00	12/30/2025 03:19	YR
91-20-3	* ^Naphthalene	ND		ug/m³	8.7	0.60	1.661	EPA TO-15	12/23/2025 08:00	12/30/2025 03:19	YR
630-20-6	* 1,1,1,2-Tetrachloroethane	ND		ug/m³	1.1	0.35	1.661	EPA TO-15	12/23/2025 08:00	12/30/2025 03:19	YR
71-55-6	1,1,1-Trichloroethane	ND		ug/m³	0.91	0.32	1.661	EPA TO-15	12/23/2025 08:00	12/30/2025 03:19	YR
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/m³	1.1	0.32	1.661	EPA TO-15	12/23/2025 08:00	12/30/2025 03:19	YR
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/m³	1.3	0.46	1.661	EPA TO-15	12/23/2025 08:00	12/30/2025 03:19	YR
79-00-5	1,1,2-Trichloroethane	ND		ug/m³	0.91	0.32	1.661	EPA TO-15	12/23/2025 08:00	12/30/2025 03:19	YR
75-34-3	1,1-Dichloroethane	ND		ug/m³	0.67	0.27	1.661	EPA TO-15	12/23/2025 08:00	12/30/2025 03:19	YR
75-35-4	1,1-Dichloroethylene	ND		ug/m³	0.33	0.29	1.661	EPA TO-15	12/23/2025 08:00	12/30/2025 03:19	YR
120-82-1	1,2,4-Trichlorobenzene	ND		ug/m³	62	0.47	1.661	EPA TO-15	12/23/2025 08:00	12/30/2025 03:19	YR
95-63-6	**1,2,4-Trimethylbenzene**	8.4		ug/m³	0.82	0.27	1.661	EPA TO-15	12/23/2025 08:00	12/30/2025 03:19	YR
106-93-4	1,2-Dibromoethane	ND		ug/m³	1.3	0.40	1.661	EPA TO-15	12/23/2025 08:00	12/30/2025 03:19	YR
95-50-1	1,2-Dichlorobenzene	ND		ug/m³	1.0	0.31	1.661	EPA TO-15	12/23/2025 08:00	12/30/2025 03:19	YR
107-06-2	1,2-Dichloroethane	ND		ug/m³	0.67	0.31	1.661	EPA TO-15	12/23/2025 08:00	12/30/2025 03:19	YR
78-87-5	1,2-Dichloropropane	ND		ug/m³	0.77	0.26	1.661	EPA TO-15	12/23/2025 08:00	12/30/2025 03:19	YR
76-14-2	1,2-Dichlorotetrafluoroethane	ND		ug/m³	1.2	0.59	1.661	EPA TO-15	12/23/2025 08:00	12/30/2025 03:19	YR
108-67-8	**1,3,5-Trimethylbenzene**	2.6		ug/m³	0.82	0.12	1.661	EPA TO-15	12/23/2025 08:00	12/30/2025 03:19	YR
106-99-0	1,3-Butadiene	ND		ug/m³	1.1	0.11	1.661	EPA TO-15	12/23/2025 08:00	12/30/2025 03:19	YR
541-73-1	1,3-Dichlorobenzene	ND		ug/m³	1.0	0.28	1.661	EPA TO-15	12/23/2025 08:00	12/30/2025 03:19	YR
142-28-9	* 1,3-Dichloropropane	ND		ug/m³	0.77	0.24	1.661	EPA TO-15	12/23/2025 08:00	12/30/2025 03:19	YR
106-46-7	1,4-Dichlorobenzene	ND		ug/m³	1.0	0.24	1.661	EPA TO-15	12/23/2025 08:00	12/30/2025 03:19	YR
123-91-1	1,4-Dioxane	ND		ug/m³	3.0	0.63	1.661	EPA TO-15	12/23/2025 08:00	12/30/2025 03:19	YR
78-93-3	**2-Butanone**	1.0		ug/m³	24	0.83	1.661	EPA TO-15	12/23/2025 08:00	12/30/2025 03:19	YR
591-78-6	* 2-Hexanone	ND		ug/m³	1.4	0.37	1.661	EPA TO-15	12/23/2025 08:00	12/30/2025 03:19	YR
107-05-1	3-Chloropropene	ND		ug/m³	2.6	0.22	1.661	EPA TO-15	12/23/2025 08:00	12/30/2025 03:19	YR
108-10-1	4-Methyl-2-pentanone	ND		ug/m³	0.68	0.30	1.661	EPA TO-15	12/23/2025 08:00	12/30/2025 03:19	YR
67-64-1	**Acetone**	10		ug/m³	20	2.0	1.661	EPA TO-15	12/23/2025 08:00	12/30/2025 03:19	YR
107-13-1	Acrylonitrile	ND		ug/m³	18	3.4	1.661	EPA TO-15	12/23/2025 08:00	12/30/2025 03:19	YR
71-43-2	**Benzene**	0.53		ug/m³	0.53	0.19	1.661	EPA TO-15	12/23/2025 08:00	12/30/2025 03:19	YR
100-44-7	Benzyl chloride	ND		ug/m³	21	0.27	1.661	EPA TO-15	12/23/2025 08:00	12/30/2025 03:19	YR
75-27-4	Bromodichloromethane	ND		ug/m³	1.1	0.33	1.661	EPA TO-15	12/23/2025 08:00	12/30/2025 03:19	YR
75-25-2	Bromoform	ND		ug/m³	1.7	0.73	1.661	EPA TO-15	12/23/2025 08:00	12/30/2025 03:19	YR
74-83-9	Bromomethane	ND		ug/m³	0.64	0.28	1.661	EPA TO-15	12/23/2025 08:00	12/30/2025 03:19	YR
75-15-0	Carbon disulfide	ND		ug/m³	0.52	0.13	1.661	EPA TO-15	12/23/2025 08:00	12/30/2025 03:19	YR
56-23-5	Carbon tetrachloride	ND		ug/m³	0.31	0.31	1.661	EPA TO-15	12/23/2025 08:00	12/30/2025 03:19	YR

Sample Information

Client Sample ID: SSV01_121925 **Sample ID: 25L1231-01**

Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25L1231	170390601	Soil Vapor	December 19, 2025 4:27 pm	12/22/2025

Volatile Organic Compounds in Air by GC/MS

Sample Prepared by Method: EPA TO15 PREP

Results Reported to MDL

CAS No.	Parameter	Result	Flag	Units	RL	MDL	Dilution	Reference Method	Prepared	Analyzed	Analyst
108-90-7	Chlorobenzene	ND		ug/m³	0.76	0.29	1.661	EPA TO-15	12/23/2025 08:00	12/30/2025 03:19	YR
75-00-3	Chloroethane	ND		ug/m³	0.44	0.25	1.661	EPA TO-15	12/23/2025 08:00	12/30/2025 03:19	YR
67-66-3	**Chloroform**	0.81		ug/m³	0.81	0.23	1.661	EPA TO-15	12/23/2025 08:00	12/30/2025 03:19	YR
74-87-3	**Chloromethane**	0.34		ug/m³	0.34	0.24	1.661	EPA TO-15	12/23/2025 08:00	12/30/2025 03:19	YR
156-59-2	cis-1,2-Dichloroethylene	ND		ug/m³	0.33	0.17	1.661	EPA TO-15	12/23/2025 08:00	12/30/2025 03:19	YR
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/m³	0.75	0.30	1.661	EPA TO-15	12/23/2025 08:00	12/30/2025 03:19	YR
110-82-7	**Cyclohexane**	0.57		ug/m³	0.57	0.40	1.661	EPA TO-15	12/23/2025 08:00	12/30/2025 03:19	YR
124-48-1	Dibromochloromethane	ND		ug/m³	1.4	0.57	1.661	EPA TO-15	12/23/2025 08:00	12/30/2025 03:19	YR
75-71-8	**Dichlorodifluoromethane**	2.1		ug/m³	0.82	0.46	1.661	EPA TO-15	12/23/2025 08:00	12/30/2025 03:19	YR
141-78-6	*** Ethyl acetate**	5.8		ug/m³	30	0.36	1.661	EPA TO-15	12/23/2025 08:00	12/30/2025 03:19	YR
100-41-4	**Ethyl Benzene**	1.6		ug/m³	0.72	0.24	1.661	EPA TO-15	12/23/2025 08:00	12/30/2025 03:19	YR
87-68-3	Hexachlorobutadiene	ND		ug/m³	1.8	0.68	1.661	EPA TO-15	12/23/2025 08:00	12/30/2025 03:19	YR
67-63-0	**Isopropanol**	1.7		ug/m³	2.4	0.098	1.661	EPA TO-15	12/23/2025 08:00	12/30/2025 03:19	YR
98-82-8	Isopropylbenzene	ND		ug/m³	0.82	0.15	1.661	EPA TO-15	12/23/2025 08:00	12/30/2025 03:19	YR
80-62-6	Methyl Methacrylate	ND		ug/m³	0.68	0.42	1.661	EPA TO-15	12/23/2025 08:00	12/30/2025 03:19	YR
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/m³	0.60	0.18	1.661	EPA TO-15	12/23/2025 08:00	12/30/2025 03:19	YR
75-09-2	Methylene chloride	ND		ug/m³	3.5	0.19	1.661	EPA TO-15	12/23/2025 08:00	12/30/2025 03:19	YR
104-51-8	* n-Butylbenzene	ND		ug/m³	0.91	0.27	1.661	EPA TO-15	12/23/2025 08:00	12/30/2025 03:19	YR
142-82-5	n-Heptane	ND		ug/m³	0.68	0.26	1.661	EPA TO-15	12/23/2025 08:00	12/30/2025 03:19	YR
110-54-3	n-Hexane	ND		ug/m³	0.59	0.18	1.661	EPA TO-15	12/23/2025 08:00	12/30/2025 03:19	YR
103-65-1	* n-Propylbenzene	ND		ug/m³	0.82	0.21	1.661	EPA TO-15	12/23/2025 08:00	12/30/2025 03:19	YR
95-47-6	**o-Xylene**	4.3		ug/m³	0.72	0.25	1.661	EPA TO-15	12/23/2025 08:00	12/30/2025 03:19	YR
179601-23-1	**p- & m- Xylenes**	8.0		ug/m³	1.4	0.37	1.661	EPA TO-15	12/23/2025 08:00	12/30/2025 03:19	YR
622-96-8	* p-Ethyltoluene	ND		ug/m³	0.82	0.29	1.661	EPA TO-15	12/23/2025 08:00	12/30/2025 03:19	YR
99-87-6	* p-Isopropyltoluene	ND		ug/m³	0.91	0.17	1.661	EPA TO-15	12/23/2025 08:00	12/30/2025 03:19	YR
115-07-1	* Propylene	ND		ug/m³	0.29	0.16	1.661	EPA TO-15	12/23/2025 08:00	12/30/2025 03:19	YR
135-98-8	* sec-Butylbenzene	ND		ug/m³	0.91	0.23	1.661	EPA TO-15	12/23/2025 08:00	12/30/2025 03:19	YR
100-42-5	Styrene	ND		ug/m³	0.71	0.22	1.661	EPA TO-15	12/23/2025 08:00	12/30/2025 03:19	YR
98-06-6	* tert-Butylbenzene	ND		ug/m³	0.91	0.35	1.661	EPA TO-15	12/23/2025 08:00	12/30/2025 03:19	YR
127-18-4	**Tetrachloroethylene**	98		ug/m³	1.1	0.27	1.661	EPA TO-15	12/23/2025 08:00	12/30/2025 03:19	YR
109-99-9	* Tetrahydrofuran	ND		ug/m³	0.98	0.16	1.661	EPA TO-15	12/23/2025 08:00	12/30/2025 03:19	YR
108-88-3	**Toluene**	10		ug/m³	0.63	0.25	1.661	EPA TO-15	12/23/2025 08:00	12/30/2025 03:19	YR
156-60-5	trans-1,2-Dichloroethylene	ND		ug/m³	0.66	0.16	1.661	EPA TO-15	12/23/2025 08:00	12/30/2025 03:19	YR
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/m³	0.75	0.30	1.661	EPA TO-15	12/23/2025 08:00	12/30/2025 03:19	YR
79-01-6	**Trichloroethylene**	0.89		ug/m³	0.27	0.27	1.661	EPA TO-15	12/23/2025 08:00	12/30/2025 03:19	YR
75-69-4	**Trichlorofluoromethane (Freon 11)**	1.1		ug/m³	0.93	0.34	1.661	EPA TO-15	12/23/2025 08:00	12/30/2025 03:19	YR

Sample Information

Client Sample ID: SSV01_121925 **Sample ID: 25L1231-01**

Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25L1231	170390601	Soil Vapor	December 19, 2025 4:27 pm	12/22/2025

Volatile Organic Compounds in Air by GC/MS

Sample Prepared by Method: EPA TO15 PREP

Results Reported to MDL

CAS No.	Parameter	Result	Flag	Units	RL	MDL	Dilution	Reference Method	Prepared	Analyzed	Analyst
108-05-4	Vinyl acetate	ND		ug/m³	0.58	0.29	1.661	EPA TO-15	12/23/2025 08:00	12/30/2025 03:19	YR
593-60-2	Vinyl bromide	ND		ug/m³	0.73	0.25	1.661	EPA TO-15	12/23/2025 08:00	12/30/2025 03:19	YR
75-01-4	Vinyl Chloride	ND		ug/m³	0.21	0.17	1.661	EPA TO-15	12/23/2025 08:00	12/30/2025 03:19	YR
1330-20-7	**Xylenes, Total**	12		ug/m³	2.2	0.60	1.661	EPA TO-15	12/23/2025 08:00	12/30/2025 03:19	YR

Quantitation Report (QT Reviewed)

Data Path : C:\MassHunter\GCMS\1\data\2025\12-DEC\122925\
Data File : TV034402.D
Acq On : 30 Dec 2025 03:19 am
Operator : YR
Sample : 25L1231-01
Misc : QBTO3091525A 1X
ALS Vial : 12 Sample Multiplier: 1.661
InstName : TO15_AIR3

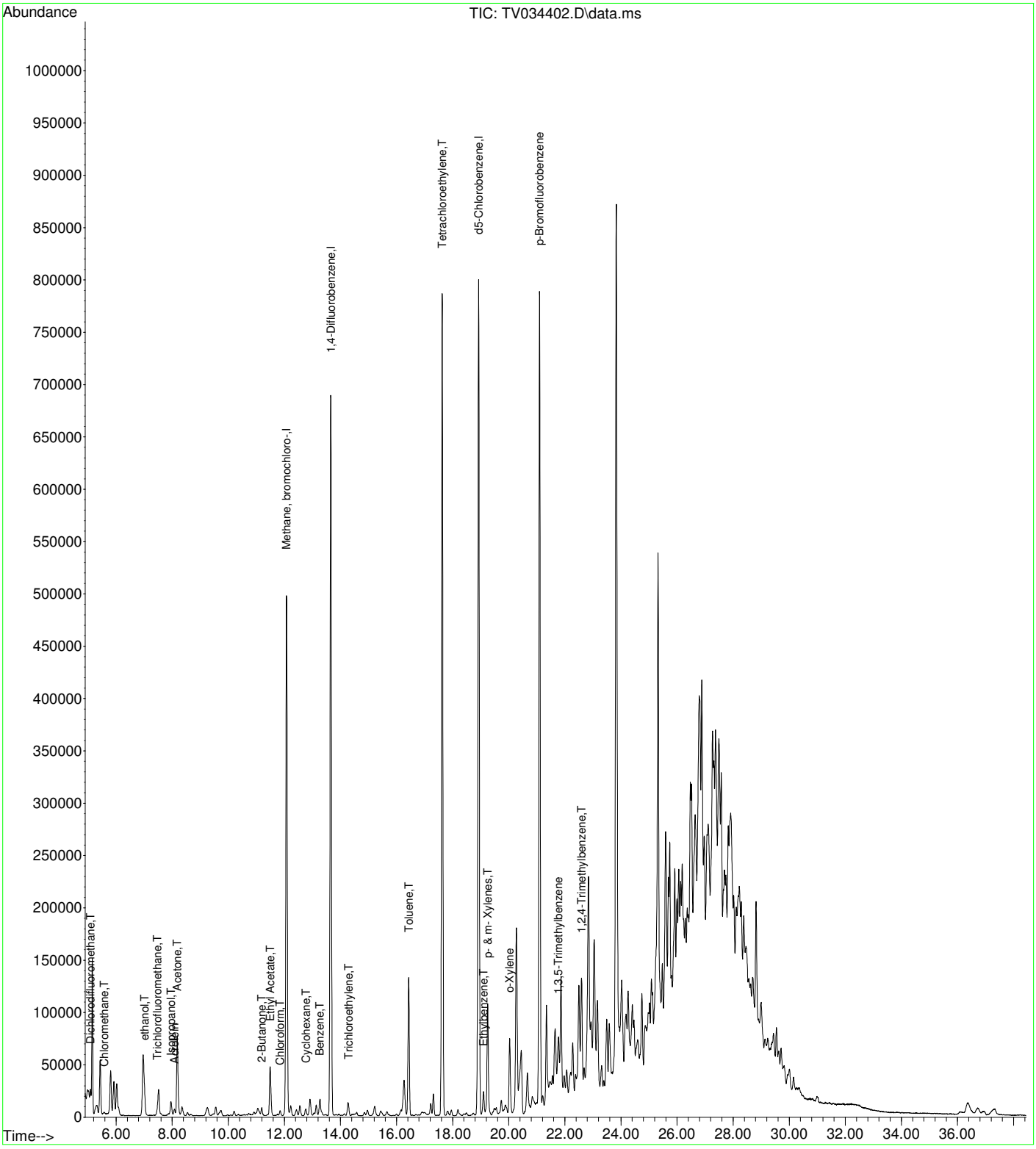
Quant Time: Dec 30 08:20:17 2025
Quant Method : C:\MassHunter\GCMS\1\methods\AIR-3-DEC052025.M
Quant Title : TO15 VOC Analysis
QLast Update : Mon Dec 08 14:43:00 2025
Response via : Initial Calibration

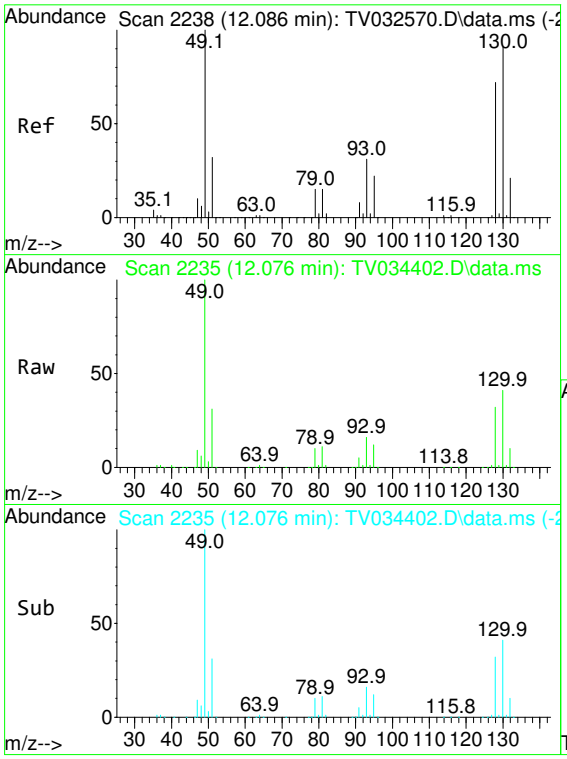
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Methane, bromochloro-	12.076	49	562931	10.00	ppbv		#-0.03
39) 1,4-Difluorobenzene	13.655	114	836797	10.00	ppbv		-0.03
55) d5-Chlorobenzene	18.925	117	721384	10.00	ppbv		#-0.04
Target Compounds							Qvalue
3) Dichlorodifluoromethane	5.090	85	18821	0.26	ppbv	#	91
5) Chloromethane	5.572	50	3677	0.10	ppbv		98
10) ethanol	7.012	45	39519	2.03	ppbv		89
12) Trichlorofluoromethane	7.472	101	8826	0.12	ppbv		98
13) Isopropanol	7.958	45	31787	0.41	ppbv		100
14) Acrolein	8.073	56	6731	0.41	ppbv	#	100
15) Acetone	8.176	43	160825	2.62	ppbv		96
27) 2-Butanone	11.192	43	17849	0.21	ppbv	#	84
28) Ethyl Acetate	11.488	43	95165	0.97	ppbv	#	93
30) Chloroform	11.842	83	5801	0.10	ppbv	#	94
33) Cyclohexane	12.764	56	6524	0.10	ppbv	#	74
37) Benzene	13.253	78	7615	0.10	ppbv	#	100
40) Trichloroethylene	14.292	95	3297	0.10	ppbv		96
47) Toluene	16.433	91	153260	1.66	ppbv		99
52) Tetrachloroethylene	17.626	166	398082	8.69	ppbv		99
58) Ethylbenzene	19.102	91	26219	0.22	ppbv		97
59) p- & m- Xylenes	19.246	91	102967	1.11	ppbv		99
60) o-Xylene	20.031	91	58013	0.60	ppbv		99
66) p-Bromofluorobenzene	21.095	95	472278	8.91	ppbv		94
68) 1,3,5-Trimethylbenzene	21.761	105	35132	0.32	ppbv		94
70) 1,2,4-Trimethylbenzene	22.590	105	113267	1.03	ppbv	#	98

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

Data Path : C:\MassHunter\GCMS\1\data\2025\12-DEC\122925\
Data File : TV034402.D
Acq On : 30 Dec 2025 03:19 am
Operator : YR
Sample : 25L1231-01
Misc : QBTO3091525A 1X
ALS Vial : 12 Sample Multiplier: 1.661
InstName : TO15_AIR3

Quant Time: Dec 30 08:20:17 2025
Quant Method : C:\MassHunter\GCMS\1\methods\AIR-3-DEC052025.M
Quant Title : TO15 VOC Analysis
QLast Update : Mon Dec 08 14:43:00 2025
Response via : Initial Calibration

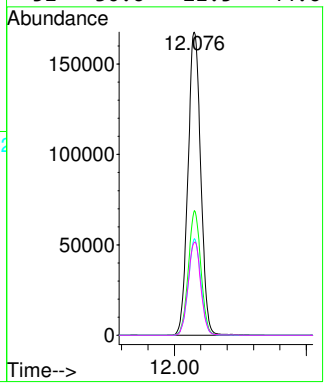


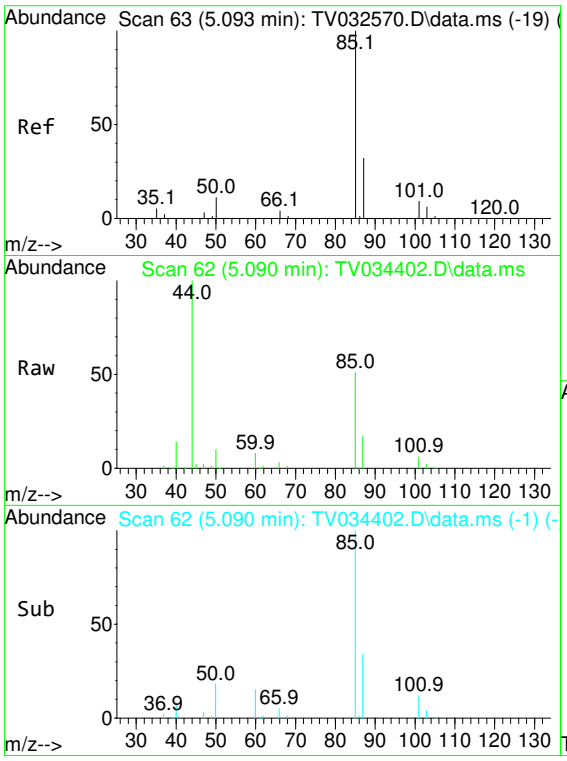


#1
Methane, bromochloro-
Concen: 10.00 ppbv
RT: 12.076 min Scan# 2235
Delta R.T. -0.035 min
Lab File: TV034402.D
Acq: 30 Dec 2025 03:19 am

Tgt Ion: 49 Resp: 562931

Ion	Ratio	Lower	Upper
49	100		
130	40.4	44.5	92.3#
128	31.2	34.7	72.1#
51	30.6	21.5	44.6

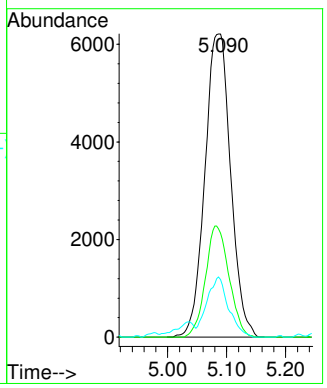


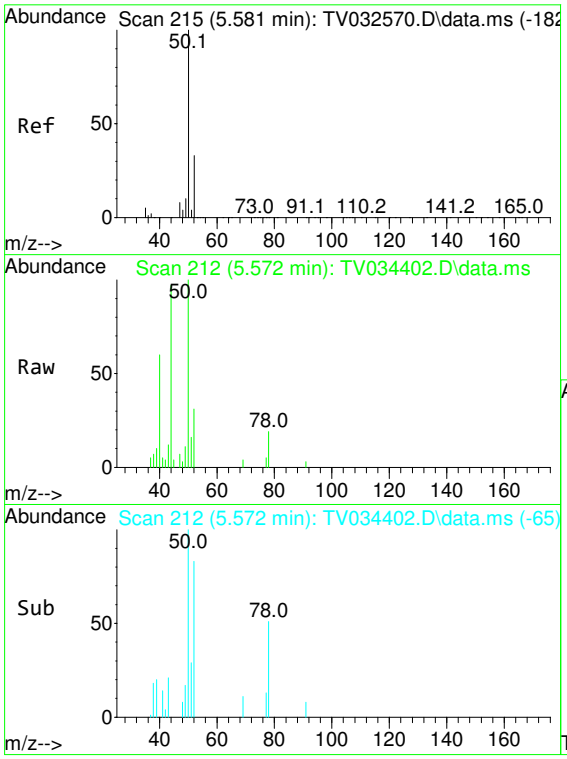


#3
Dichlorodifluoromethane
Concen: 0.26 ppbv
RT: 5.090 min Scan# 62
Delta R.T. -0.022 min
Lab File: TV034402.D
Acq: 30 Dec 2025 03:19 am

Tgt Ion: 85 Resp: 18821

Ion	Ratio	Lower	Upper
85	100		
87	33.5	21.0	43.6
50	21.1	6.8	14.2#

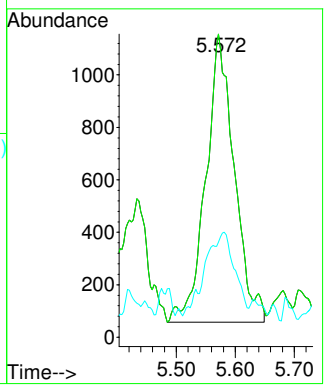


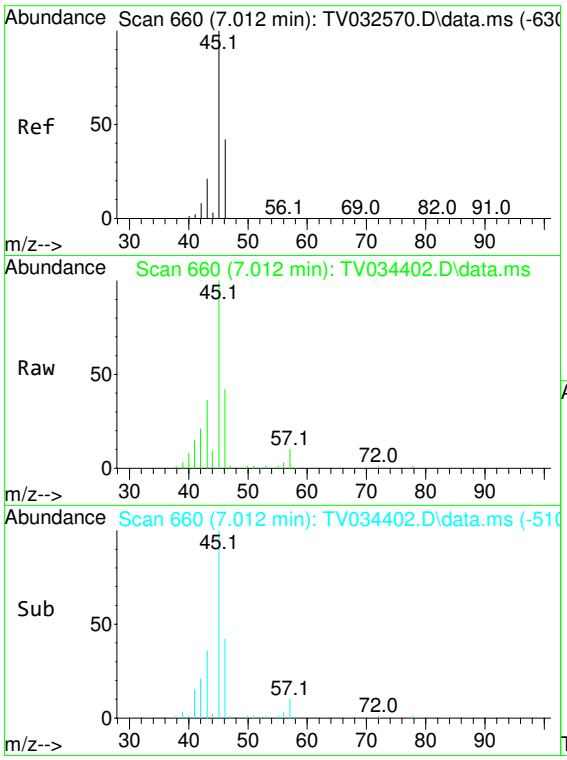


#5
Chloromethane
Concen: 0.10 ppbv
RT: 5.572 min Scan# 212
Delta R.T. -0.027 min
Lab File: TV034402.D
Acq: 30 Dec 2025 03:19 am

Tgt Ion: 50 Resp: 3677

Ion	Ratio	Lower	Upper
50	100		
50	100.0	65.0	135.0
52	37.6	16.5	49.5

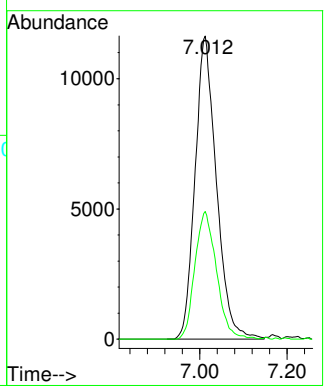


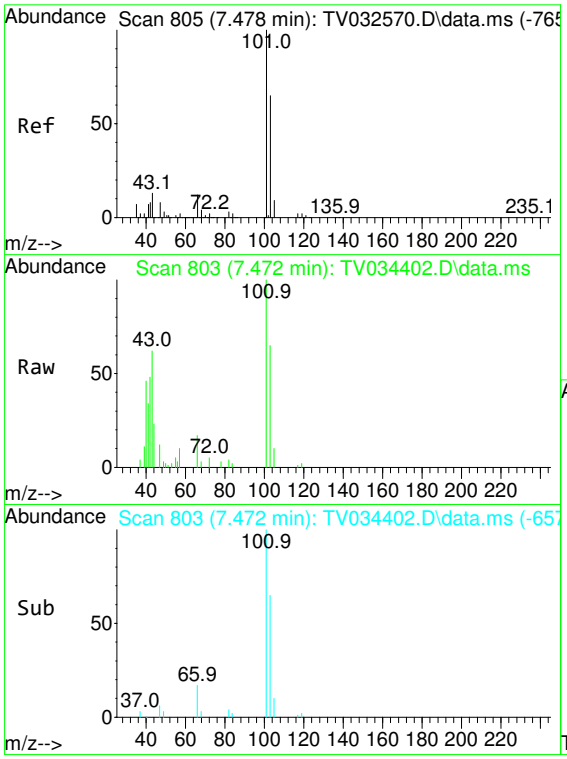


#10
ethanol
Concen: 2.03 ppbv
RT: 7.012 min Scan# 660
Delta R.T. -0.019 min
Lab File: TV034402.D
Acq: 30 Dec 2025 03:19 am

Tgt Ion: 45 Resp: 39519

Ion	Ratio	Lower	Upper
45	100		
46	42.7	40.0	60.0

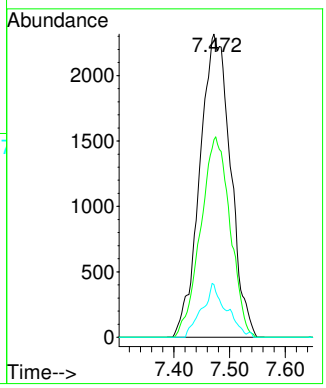


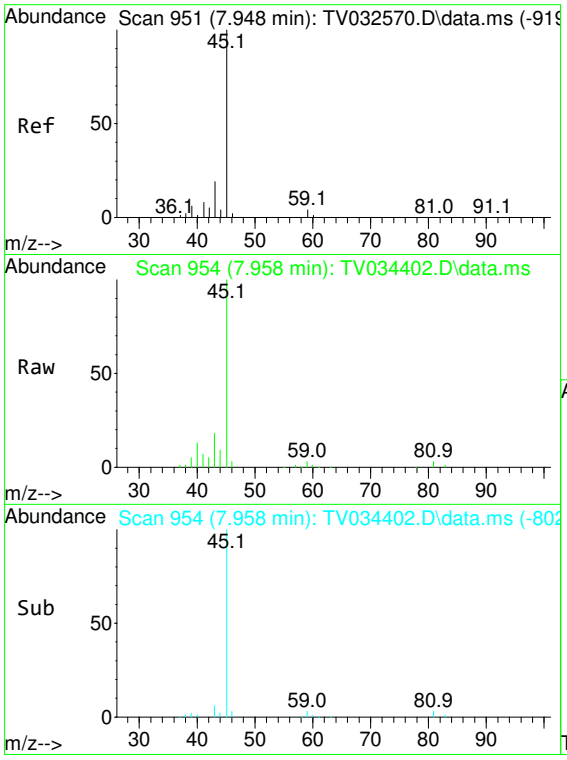


#12
Trichlorofluoromethane
Concen: 0.12 ppbv
RT: 7.472 min Scan# 803
Delta R.T. -0.030 min
Lab File: TV034402.D
Acq: 30 Dec 2025 03:19 am

Tgt Ion:101 Resp: 8826

Ion	Ratio	Lower	Upper
101	100		
103	63.8	42.4	88.0
66	14.2	7.9	16.5

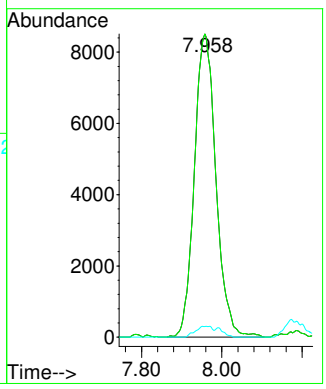


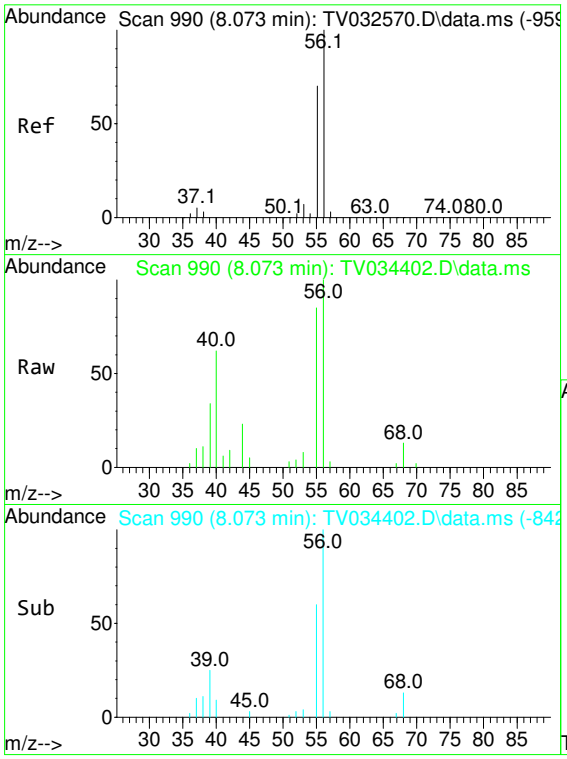


#13
Isopropanol
Concen: 0.41 ppbv
RT: 7.958 min Scan# 954
Delta R.T. -0.011 min
Lab File: TV034402.D
Acq: 30 Dec 2025 03:19 am

Tgt Ion: 45 Resp: 31787

Ion	Ratio	Lower	Upper
45	100		
45	100.0	65.0	135.0
59	4.0	0.0	8.4

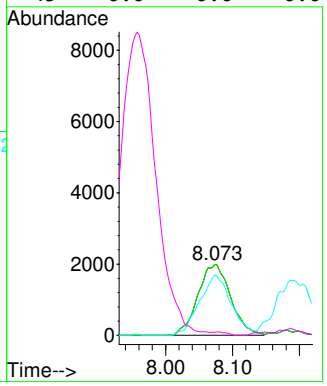


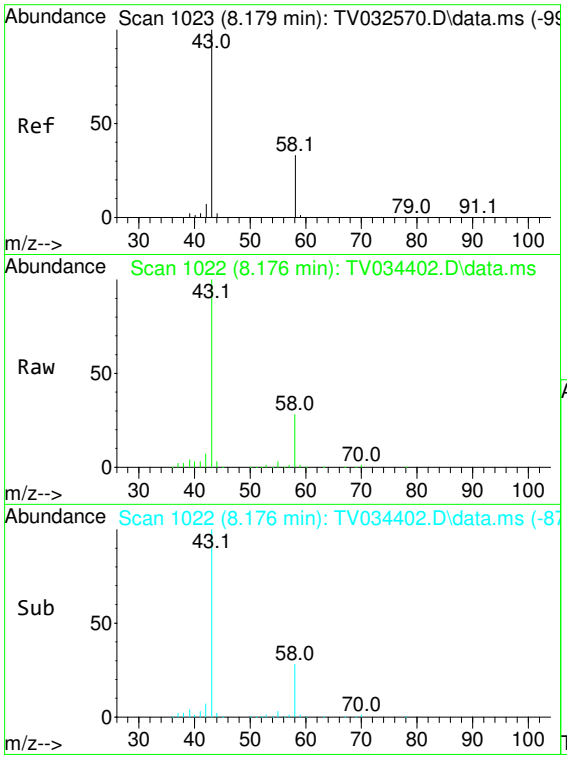


#14
Acrolein
Concen: 0.41 ppbv
RT: 8.073 min Scan# 990
Delta R.T. -0.024 min
Lab File: TV034402.D
Acq: 30 Dec 2025 03:19 am

Tgt Ion: 56 Resp: 6731

Ion	Ratio	Lower	Upper
56	100		
56	100.0	80.0	120.0
55	0.0	0.0	0.0
45	0.0	0.0	0.0

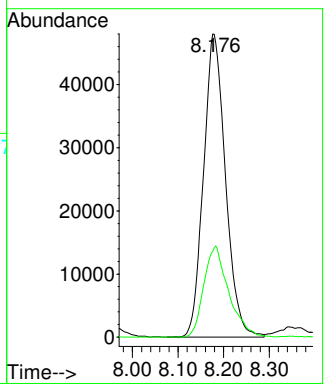


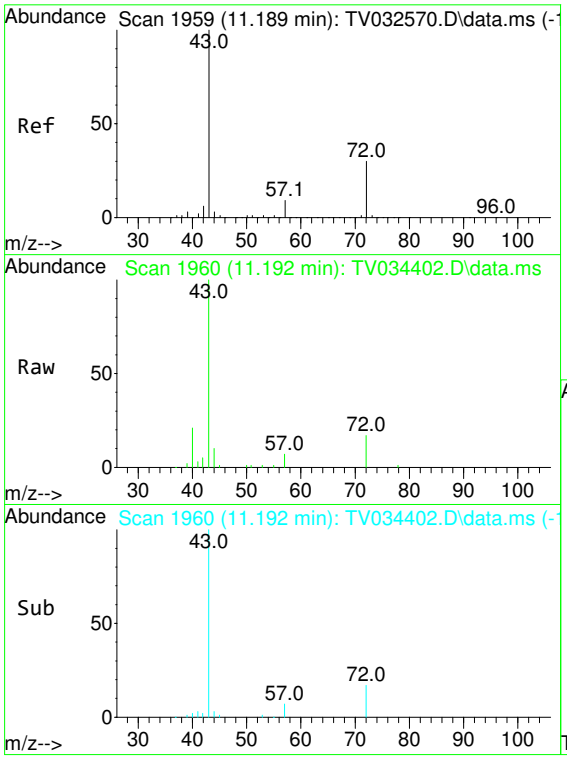


#15
Acetone
Concen: 2.62 ppbv
RT: 8.176 min Scan# 1022
Delta R.T. -0.025 min
Lab File: TV034402.D
Acq: 30 Dec 2025 03:19 am

Tgt Ion: 43 Resp: 160825

Ion	Ratio	Lower	Upper
43	100		
58	34.1	20.7	42.9

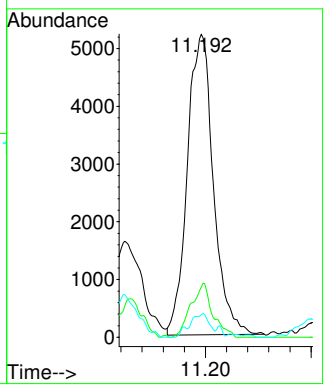


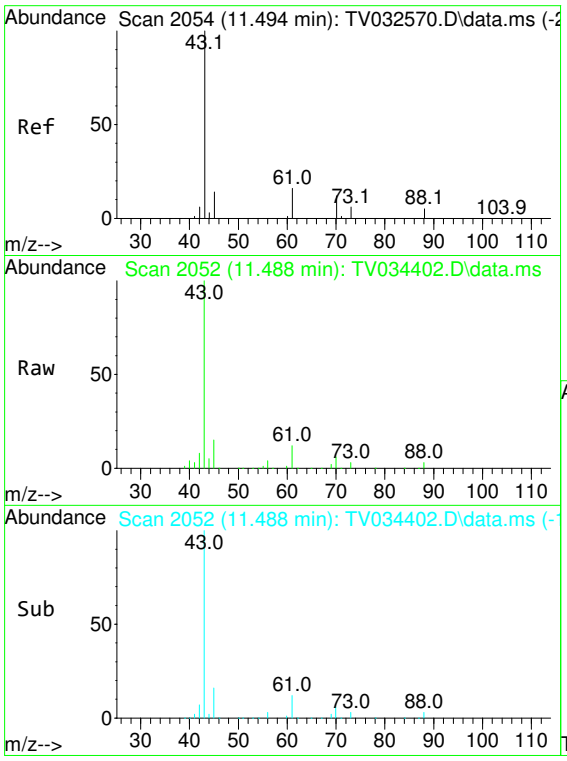


#27
2-Butanone
Concen: 0.21 ppbv
RT: 11.192 min Scan# 1960
Delta R.T. -0.020 min
Lab File: TV034402.D
Acq: 30 Dec 2025 03:19 am

Tgt Ion: 43 Resp: 17849

Ion	Ratio	Lower	Upper
43	100		
72	15.0	16.4	34.2#
57	7.5	5.0	10.4

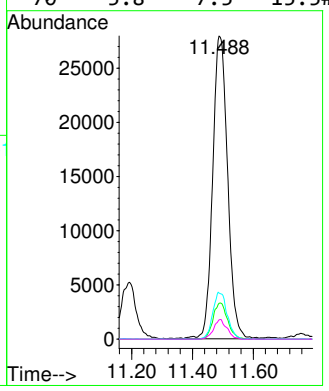


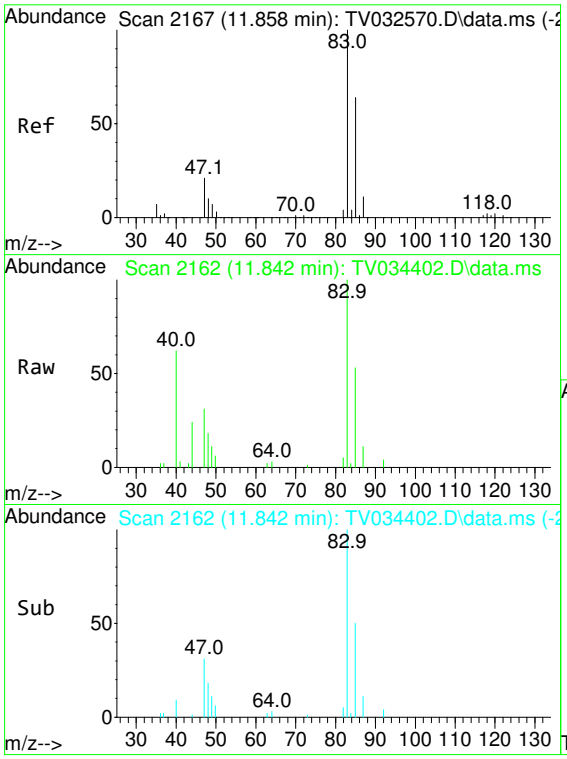


#28
Ethyl Acetate
Concen: 0.97 ppbv
RT: 11.488 min Scan# 2052
Delta R.T. -0.031 min
Lab File: TV034402.D
Acq: 30 Dec 2025 03:19 am

Tgt Ion: 43 Resp: 95165

Ion	Ratio	Lower	Upper
43	100		
61	11.8	9.2	19.2
45	15.0	9.4	19.6
70	5.8	7.5	15.5#

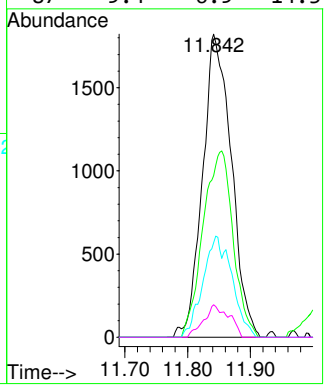


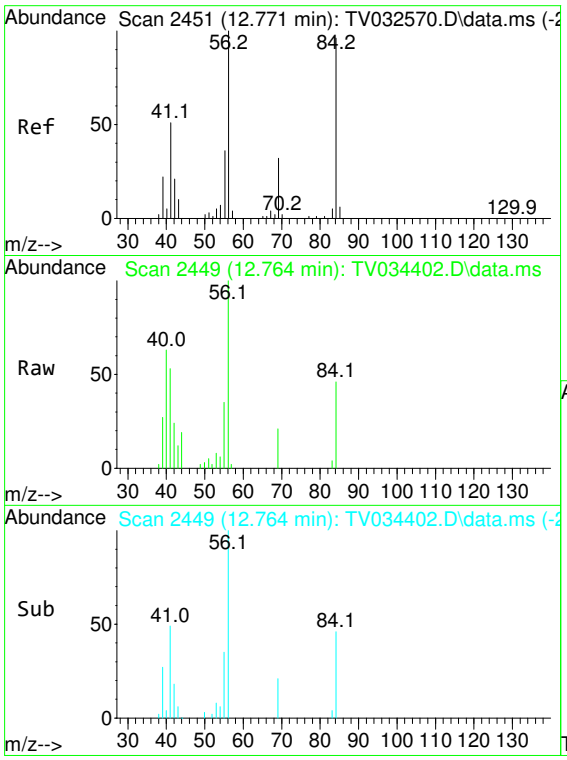


#30
Chloroform
Concen: 0.10 ppbv
RT: 11.842 min Scan# 2162
Delta R.T. -0.040 min
Lab File: TV034402.D
Acq: 30 Dec 2025 03:19 am

Tgt Ion: 83 Resp: 5801

Ion	Ratio	Lower	Upper
83	100		
85	64.1	42.2	87.6
47	33.8	14.8	30.8#
87	9.4	6.9	14.3

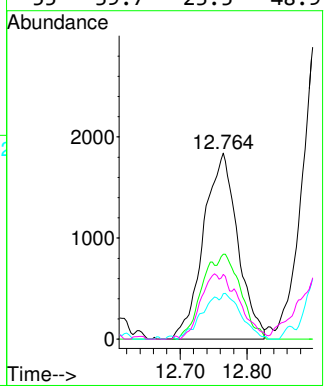


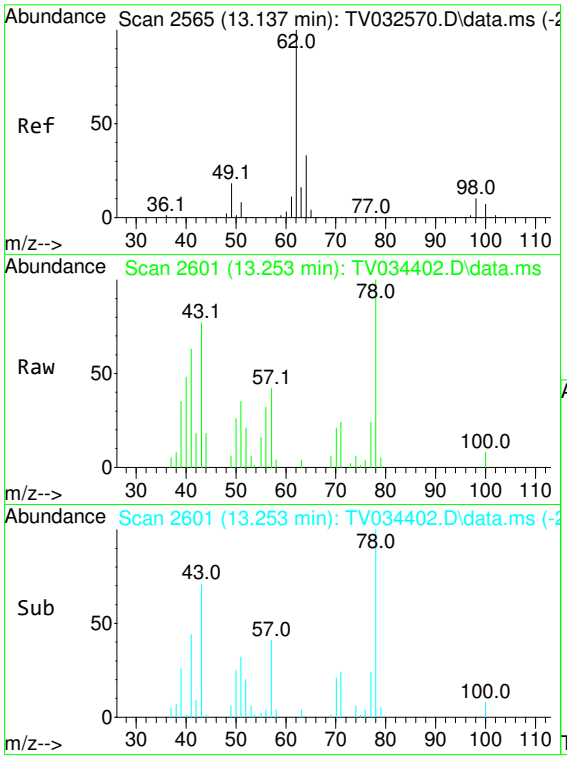


#33
Cyclohexane
Concen: 0.10 ppbv
RT: 12.764 min Scan# 2449
Delta R.T. -0.030 min
Lab File: TV034402.D
Acq: 30 Dec 2025 03:19 am

Tgt Ion: 56 Resp: 6524

Ion	Ratio	Lower	Upper
56	100		
84	51.0	56.4	117.0#
42	27.8	15.3	31.7
55	39.7	23.5	48.9

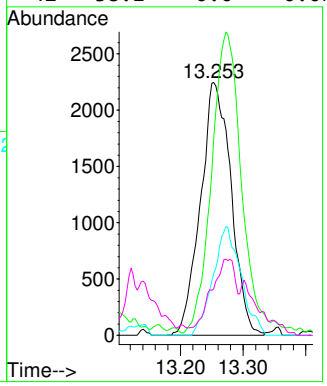


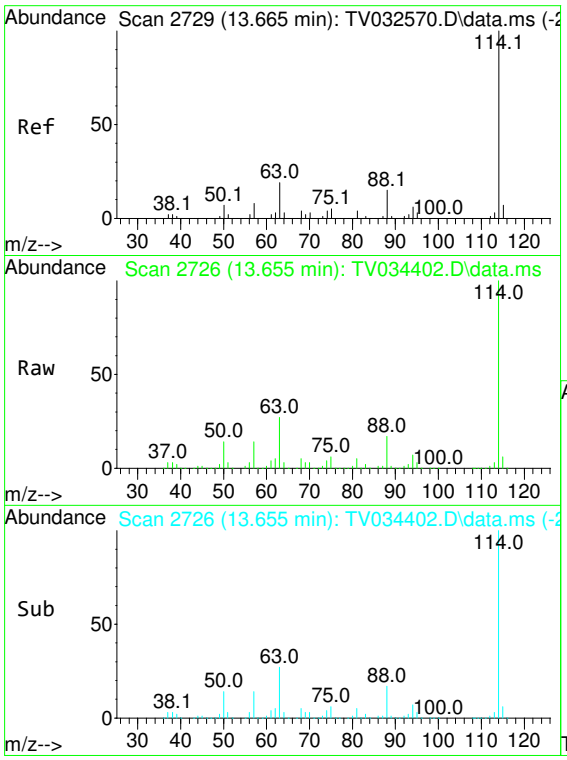


#37
Benzene
Concen: 0.10 ppbv
RT: 13.253 min Scan# 2601
Delta R.T. -0.041 min
Lab File: TV034402.D
Acq: 30 Dec 2025 03:19 am

Tgt Ion: 78 Resp: 7615

Ion	Ratio	Lower	Upper
78	100		
43	115.1	0.0	0.0#
71	39.2	0.0	0.0#
42	38.1	0.0	0.0#

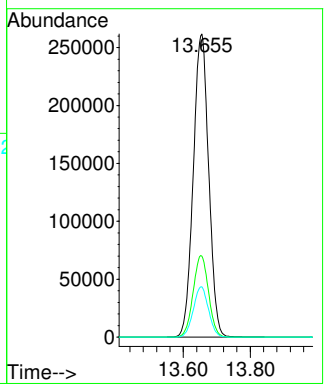


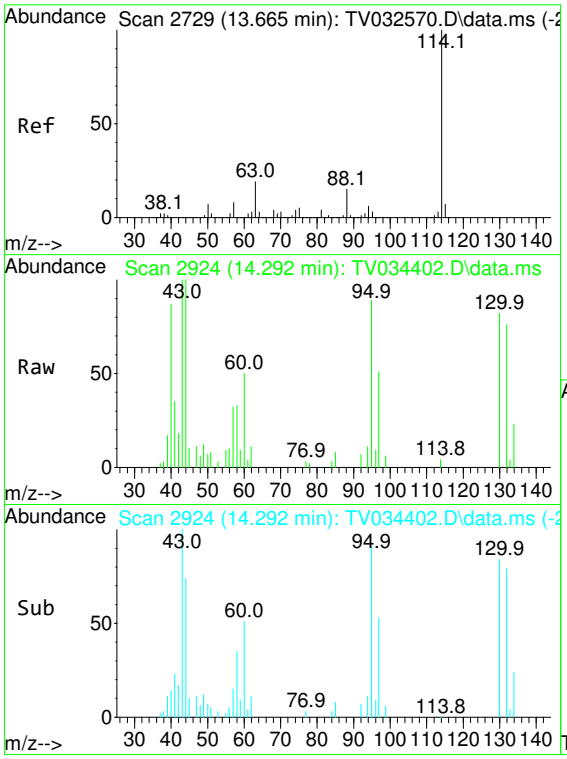


#39
1,4-Difluorobenzene
Concen: 10.00 ppbv
RT: 13.655 min Scan# 2726
Delta R.T. -0.034 min
Lab File: TV034402.D
Acq: 30 Dec 2025 03:19 am

Tgt Ion:114 Resp: 836797

Ion	Ratio	Lower	Upper
114	100		
63	26.9	14.0	29.2
88	16.4	11.2	23.2

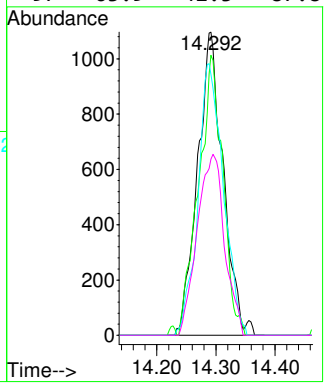


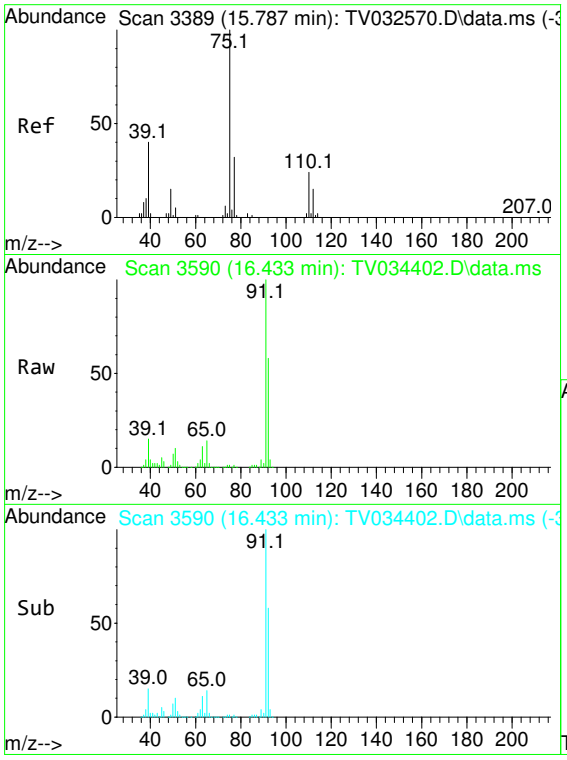


#40
Trichloroethylene
Concen: 0.10 ppbv
RT: 14.292 min Scan# 2924
Delta R.T. -0.031 min
Lab File: TV034402.D
Acq: 30 Dec 2025 03:19 am

Tgt Ion: 95 Resp: 3297

Ion	Ratio	Lower	Upper
95	100		
130	88.8	60.4	125.4
132	88.8	60.5	125.7
97	63.9	42.3	87.8

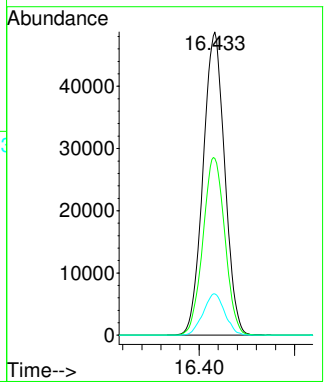


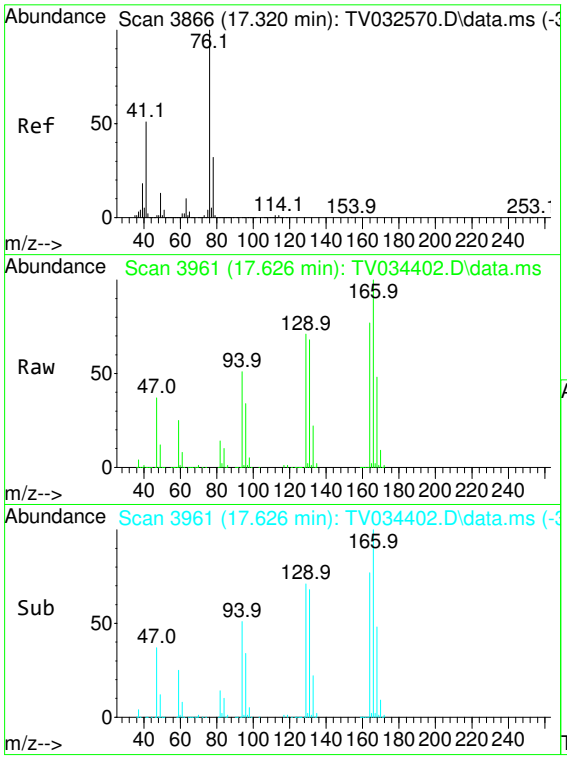


#47
Toluene
Concen: 1.66 ppbv
RT: 16.433 min Scan# 3590
Delta R.T. -0.035 min
Lab File: TV034402.D
Acq: 30 Dec 2025 03:19 am

Tgt Ion: 91 Resp: 153260

Ion	Ratio	Lower	Upper
91	100		
92	59.4	39.0	81.0
65	13.7	7.7	16.1

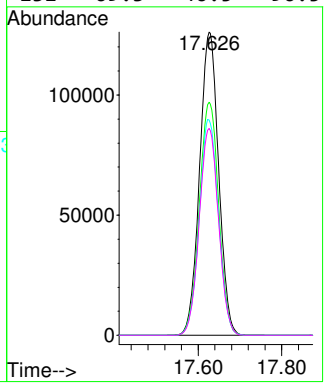


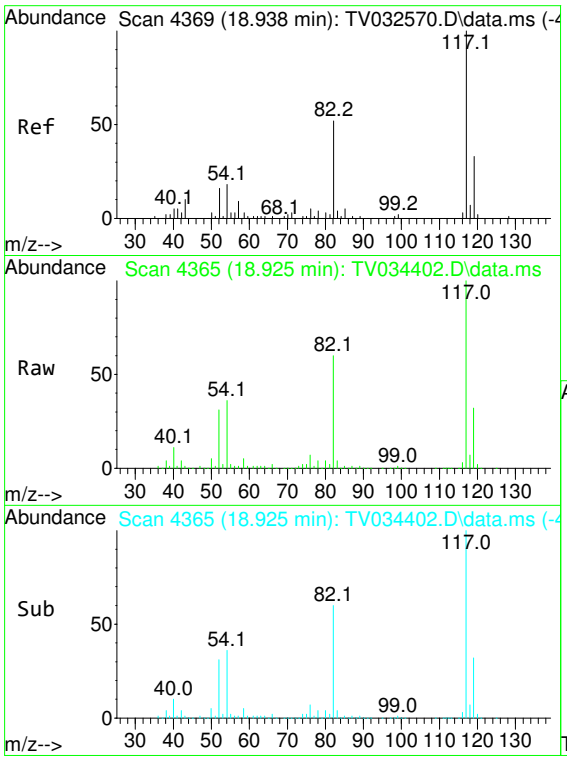


#52
Tetrachloroethylene
Concen: 8.69 ppbv
RT: 17.626 min Scan# 3961
Delta R.T. -0.035 min
Lab File: TV034402.D
Acq: 30 Dec 2025 03:19 am

Tgt Ion:166 Resp: 398082

Ion	Ratio	Lower	Upper
166	100		
164	78.5	51.4	106.8
129	71.8	47.0	97.6
131	69.3	46.5	96.5

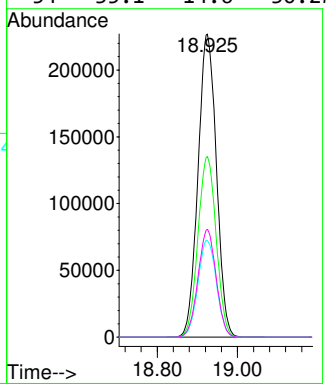


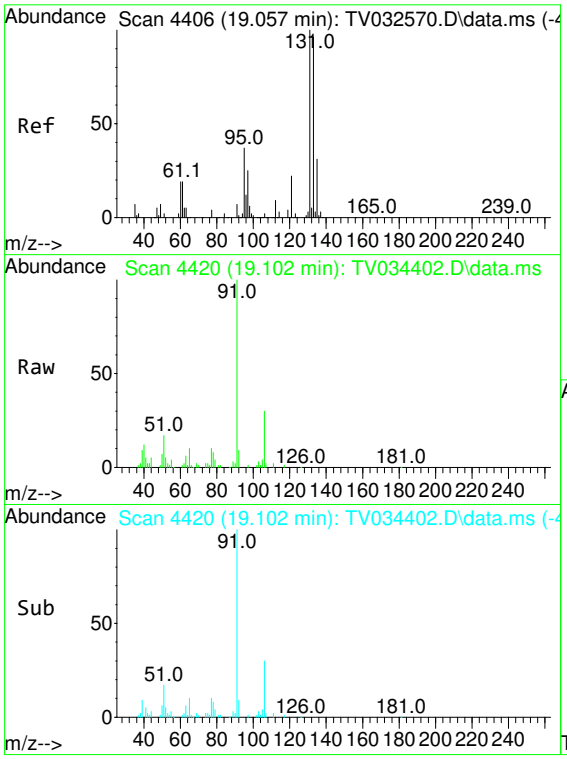


#55
d5-Chlorobenzene
Concen: 10.00 ppbv
RT: 18.925 min Scan# 4365
Delta R.T. -0.037 min
Lab File: TV034402.D
Acq: 30 Dec 2025 03:19 am

Tgt Ion:117 Resp: 721384

Ion	Ratio	Lower	Upper
117	100		
82	59.2	38.7	80.5
119	32.2	20.3	42.3
54	35.1	14.6	30.2#

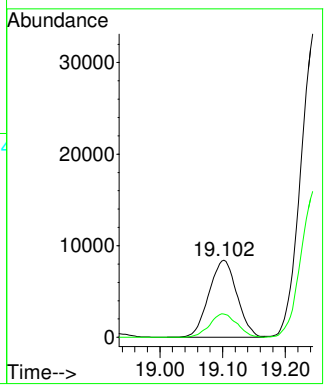


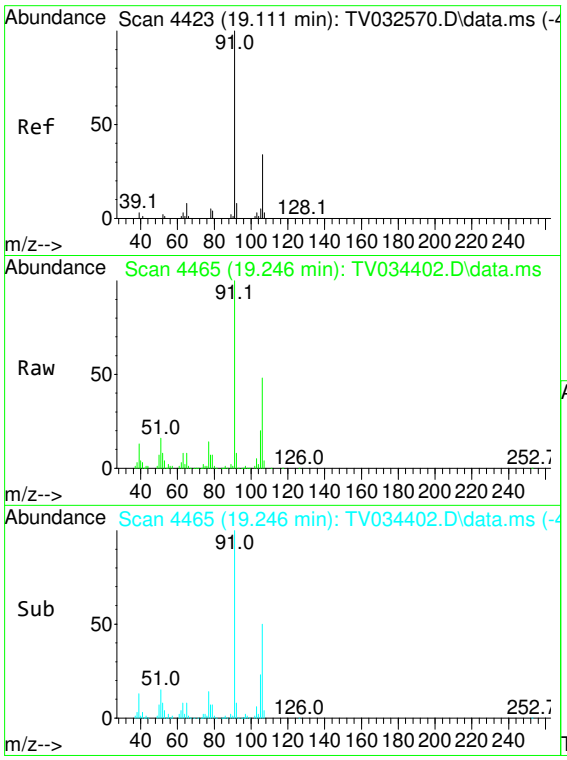


#58
Ethylbenzene
Concen: 0.22 ppbv
RT: 19.102 min Scan# 4420
Delta R.T. -0.033 min
Lab File: TV034402.D
Acq: 30 Dec 2025 03:19 am

Tgt Ion: 91 Resp: 26219

Ion	Ratio	Lower	Upper
91	100		
106	29.7	20.3	42.3

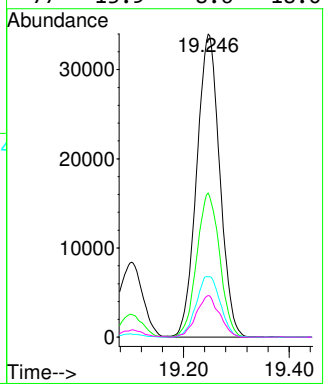


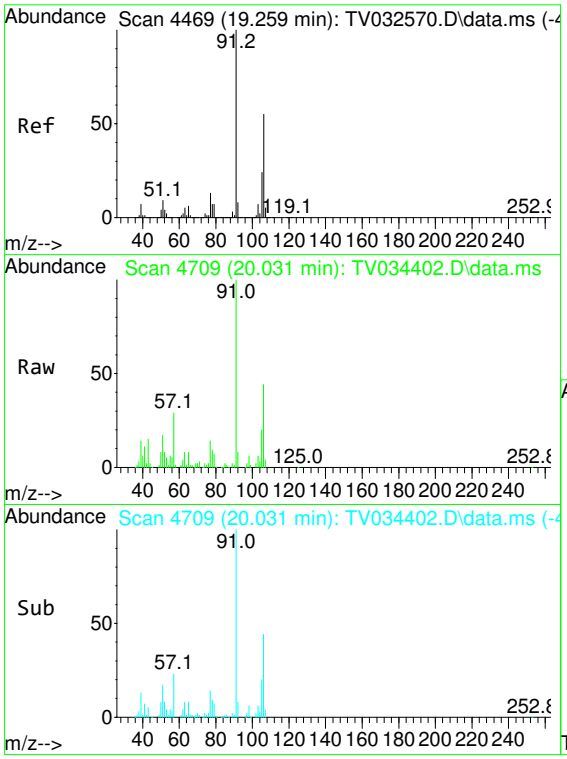


#59
p- & m- Xylenes
Concen: 1.11 ppbv
RT: 19.246 min Scan# 4465
Delta R.T. -0.036 min
Lab File: TV034402.D
Acq: 30 Dec 2025 03:19 am

Tgt Ion: 91 Resp: 102967

Ion	Ratio	Lower	Upper
91	100		
106	47.4	31.0	64.4
105	20.9	13.4	27.8
77	13.9	8.6	18.0

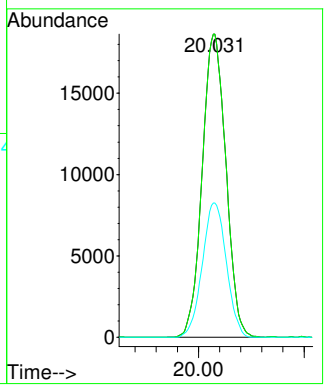


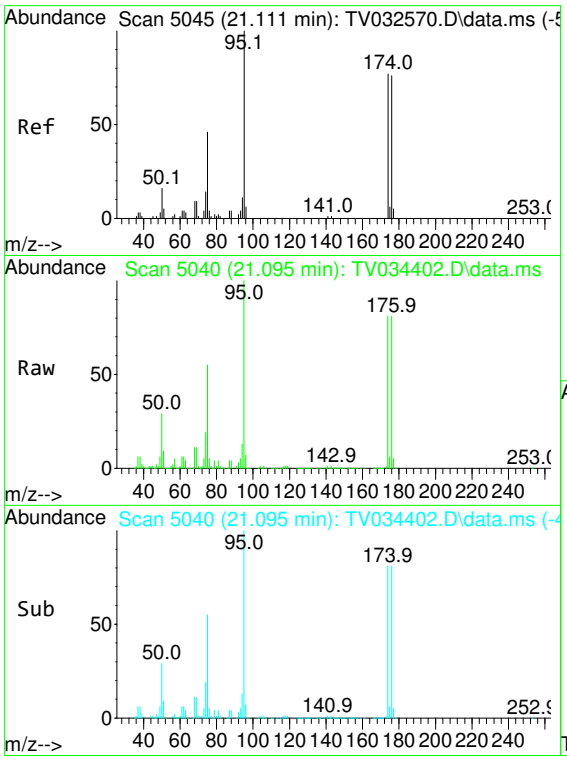


#60
o-Xylene
Concen: 0.60 ppbv
RT: 20.031 min Scan# 4709
Delta R.T. -0.035 min
Lab File: TV034402.D
Acq: 30 Dec 2025 03:19 am

Tgt Ion: 91 Resp: 58013

Ion	Ratio	Lower	Upper
91	100		
91	100.0	80.0	120.0
106	45.0	36.9	55.3

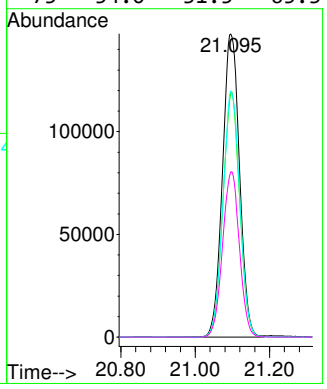


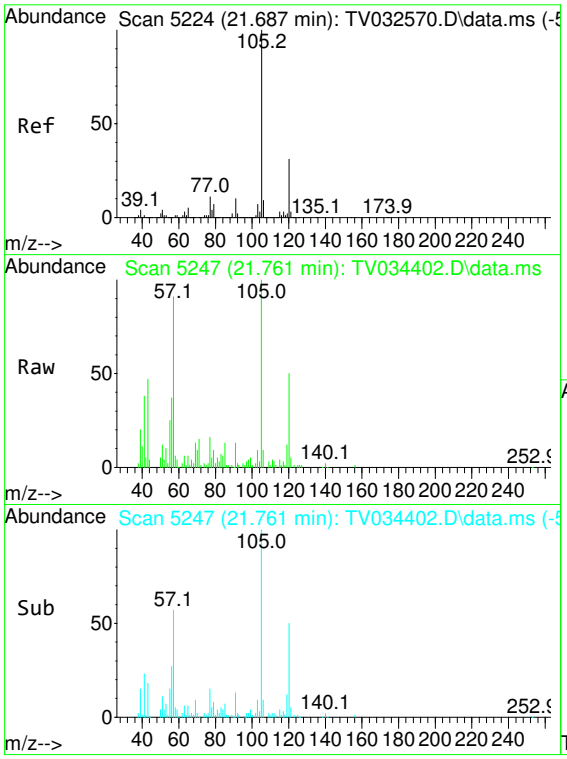


#66
p-Bromofluorobenzene
Concen: 8.91 ppbv
RT: 21.095 min Scan# 5040
Delta R.T. -0.040 min
Lab File: TV034402.D
Acq: 30 Dec 2025 03:19 am

Tgt Ion: 95 Resp: 472278

Ion	Ratio	Lower	Upper
95	100		
174	79.3	50.0	103.8
176	80.5	48.2	100.2
75	54.0	31.5	65.3

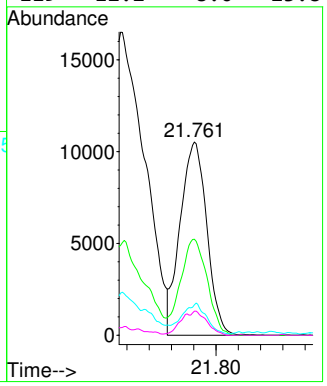


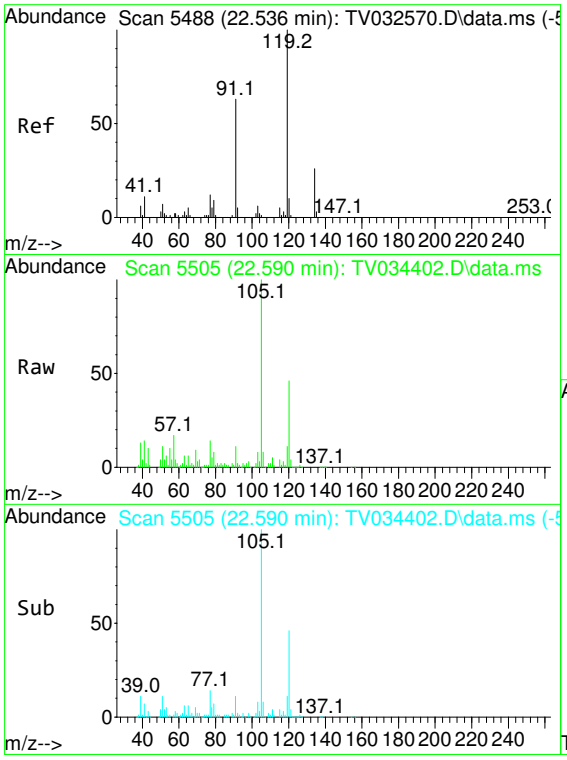


#68
1,3,5-Trimethylbenzene
Concen: 0.32 ppbv
RT: 21.761 min Scan# 5247
Delta R.T. -0.038 min
Lab File: TV034402.D
Acq: 30 Dec 2025 03:19 am

Tgt Ion:105 Resp: 35132

Ion	Ratio	Lower	Upper
105	100		
120	49.5	43.4	65.2
77	14.5	10.8	16.2
119	12.2	8.0	23.8

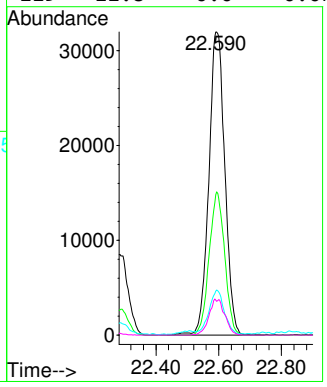




#70
1,2,4-Trimethylbenzene
Concen: 1.03 ppbv
RT: 22.590 min Scan# 5505
Delta R.T. -0.046 min
Lab File: TV034402.D
Acq: 30 Dec 2025 03:19 am

Tgt Ion:105 Resp: 113267

Ion	Ratio	Lower	Upper
105	100		
120	45.9	29.0	60.2
77	13.7	8.2	17.0
119	11.8	0.0	0.0#



Sample Information

Client Sample ID: IA01_121925 **Sample ID: 25L1231-02**

Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25L1231	170390601	Indoor Ambient Air	December 19, 2025 4:15 pm	12/22/2025

Volatile Organic Compounds in Air by GC/MS

Sample Prepared by Method: EPA TO15 PREP

Results Reported to MDL

CAS No.	Parameter	Result	Flag	Units	RL	MDL	Dilution	Reference Method	Prepared	Analyzed	Analyst
540-84-1	* ^**2,2,4-Trimethylpentane**	12		ug/m³	0.21	0.21	0.895	EPA TO-15	12/23/2025 08:00	12/30/2025 04:05	YR
107-02-8	* ^Acrolein	ND		ug/m³	0.21	0.13	0.895	EPA TO-15	12/23/2025 08:00	12/30/2025 04:05	YR
91-20-3	* ^**Naphthalene**	0.89		ug/m³	4.7	0.32	0.895	EPA TO-15	12/23/2025 08:00	12/30/2025 04:05	YR
630-20-6	* 1,1,1,2-Tetrachloroethane	ND		ug/m³	0.61	0.19	0.895	EPA TO-15	12/23/2025 08:00	12/30/2025 04:05	YR
71-55-6	1,1,1-Trichloroethane	ND		ug/m³	0.49	0.17	0.895	EPA TO-15	12/23/2025 08:00	12/30/2025 04:05	YR
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/m³	0.61	0.17	0.895	EPA TO-15	12/23/2025 08:00	12/30/2025 04:05	YR
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/m³	0.69	0.25	0.895	EPA TO-15	12/23/2025 08:00	12/30/2025 04:05	YR
79-00-5	1,1,2-Trichloroethane	ND		ug/m³	0.49	0.17	0.895	EPA TO-15	12/23/2025 08:00	12/30/2025 04:05	YR
75-34-3	1,1-Dichloroethane	ND		ug/m³	0.36	0.15	0.895	EPA TO-15	12/23/2025 08:00	12/30/2025 04:05	YR
75-35-4	1,1-Dichloroethylene	ND		ug/m³	0.18	0.15	0.895	EPA TO-15	12/23/2025 08:00	12/30/2025 04:05	YR
120-82-1	1,2,4-Trichlorobenzene	ND		ug/m³	33	0.25	0.895	EPA TO-15	12/23/2025 08:00	12/30/2025 04:05	YR
95-63-6	**1,2,4-Trimethylbenzene**	5.2		ug/m³	0.44	0.15	0.895	EPA TO-15	12/23/2025 08:00	12/30/2025 04:05	YR
106-93-4	1,2-Dibromoethane	ND		ug/m³	0.69	0.22	0.895	EPA TO-15	12/23/2025 08:00	12/30/2025 04:05	YR
95-50-1	1,2-Dichlorobenzene	ND		ug/m³	0.54	0.17	0.895	EPA TO-15	12/23/2025 08:00	12/30/2025 04:05	YR
107-06-2	1,2-Dichloroethane	ND		ug/m³	0.36	0.17	0.895	EPA TO-15	12/23/2025 08:00	12/30/2025 04:05	YR
78-87-5	1,2-Dichloropropane	ND		ug/m³	0.41	0.14	0.895	EPA TO-15	12/23/2025 08:00	12/30/2025 04:05	YR
76-14-2	1,2-Dichlorotetrafluoroethane	ND		ug/m³	0.63	0.32	0.895	EPA TO-15	12/23/2025 08:00	12/30/2025 04:05	YR
108-67-8	**1,3,5-Trimethylbenzene**	1.3		ug/m³	0.44	0.067	0.895	EPA TO-15	12/23/2025 08:00	12/30/2025 04:05	YR
106-99-0	**1,3-Butadiene**	0.61		ug/m³	0.59	0.061	0.895	EPA TO-15	12/23/2025 08:00	12/30/2025 04:05	YR
541-73-1	1,3-Dichlorobenzene	ND		ug/m³	0.54	0.15	0.895	EPA TO-15	12/23/2025 08:00	12/30/2025 04:05	YR
142-28-9	* 1,3-Dichloropropane	ND		ug/m³	0.41	0.13	0.895	EPA TO-15	12/23/2025 08:00	12/30/2025 04:05	YR
106-46-7	1,4-Dichlorobenzene	ND		ug/m³	0.54	0.13	0.895	EPA TO-15	12/23/2025 08:00	12/30/2025 04:05	YR
123-91-1	1,4-Dioxane	ND		ug/m³	1.6	0.34	0.895	EPA TO-15	12/23/2025 08:00	12/30/2025 04:05	YR
78-93-3	**2-Butanone**	2.3		ug/m³	13	0.45	0.895	EPA TO-15	12/23/2025 08:00	12/30/2025 04:05	YR
591-78-6	* 2-Hexanone	ND		ug/m³	0.73	0.20	0.895	EPA TO-15	12/23/2025 08:00	12/30/2025 04:05	YR
107-05-1	3-Chloropropene	ND		ug/m³	1.4	0.12	0.895	EPA TO-15	12/23/2025 08:00	12/30/2025 04:05	YR
108-10-1	**4-Methyl-2-pentanone**	1.5		ug/m³	0.37	0.16	0.895	EPA TO-15	12/23/2025 08:00	12/30/2025 04:05	YR
107-13-1	Acrylonitrile	ND		ug/m³	9.7	1.9	0.895	EPA TO-15	12/23/2025 08:00	12/30/2025 04:05	YR
71-43-2	**Benzene**	4.9		ug/m³	0.29	0.10	0.895	EPA TO-15	12/23/2025 08:00	12/30/2025 04:05	YR
100-44-7	Benzyl chloride	ND		ug/m³	12	0.14	0.895	EPA TO-15	12/23/2025 08:00	12/30/2025 04:05	YR
75-27-4	Bromodichloromethane	ND		ug/m³	0.60	0.18	0.895	EPA TO-15	12/23/2025 08:00	12/30/2025 04:05	YR
75-25-2	Bromoform	ND		ug/m³	0.93	0.39	0.895	EPA TO-15	12/23/2025 08:00	12/30/2025 04:05	YR
74-83-9	Bromomethane	ND		ug/m³	0.35	0.15	0.895	EPA TO-15	12/23/2025 08:00	12/30/2025 04:05	YR
75-15-0	Carbon disulfide	ND		ug/m³	0.28	0.072	0.895	EPA TO-15	12/23/2025 08:00	12/30/2025 04:05	YR
56-23-5	**Carbon tetrachloride**	0.51		ug/m³	0.17	0.17	0.895	EPA TO-15	12/23/2025 08:00	12/30/2025 04:05	YR
108-90-7	Chlorobenzene	ND		ug/m³	0.41	0.16	0.895	EPA TO-15	12/23/2025 08:00	12/30/2025 04:05	YR

Sample Information

Client Sample ID: IA01_121925 **Sample ID: 25L1231-02**

Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25L1231	170390601	Indoor Ambient Air	December 19, 2025 4:15 pm	12/22/2025

Volatile Organic Compounds in Air by GC/MS

Sample Prepared by Method: EPA TO15 PREP

Results Reported to MDL

CAS No.	Parameter	Result	Flag	Units	RL	MDL	Dilution	Reference Method	Prepared	Analyzed	Analyst
75-00-3	Chloroethane	ND		ug/m³	0.24	0.13	0.895	EPA TO-15	12/23/2025 08:00	12/30/2025 04:05	YR
67-66-3	Chloroform	ND		ug/m³	0.44	0.12	0.895	EPA TO-15	12/23/2025 08:00	12/30/2025 04:05	YR
74-87-3	**Chloromethane**	1.2		ug/m³	0.18	0.13	0.895	EPA TO-15	12/23/2025 08:00	12/30/2025 04:05	YR
156-59-2	cis-1,2-Dichloroethylene	ND		ug/m³	0.18	0.091	0.895	EPA TO-15	12/23/2025 08:00	12/30/2025 04:05	YR
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/m³	0.41	0.16	0.895	EPA TO-15	12/23/2025 08:00	12/30/2025 04:05	YR
110-82-7	**Cyclohexane**	5.7		ug/m³	0.31	0.22	0.895	EPA TO-15	12/23/2025 08:00	12/30/2025 04:05	YR
124-48-1	Dibromochloromethane	ND		ug/m³	0.76	0.31	0.895	EPA TO-15	12/23/2025 08:00	12/30/2025 04:05	YR
75-71-8	**Dichlorodifluoromethane**	2.3		ug/m³	0.44	0.25	0.895	EPA TO-15	12/23/2025 08:00	12/30/2025 04:05	YR
141-78-6	*** Ethyl acetate**	7.5		ug/m³	16	0.19	0.895	EPA TO-15	12/23/2025 08:00	12/30/2025 04:05	YR
100-41-4	**Ethyl Benzene**	4.4		ug/m³	0.39	0.13	0.895	EPA TO-15	12/23/2025 08:00	12/30/2025 04:05	YR
87-68-3	Hexachlorobutadiene	ND		ug/m³	0.95	0.36	0.895	EPA TO-15	12/23/2025 08:00	12/30/2025 04:05	YR
67-63-0	**Isopropanol**	5.1		ug/m³	1.3	0.053	0.895	EPA TO-15	12/23/2025 08:00	12/30/2025 04:05	YR
98-82-8	**Isopropylbenzene**	0.97		ug/m³	0.44	0.079	0.895	EPA TO-15	12/23/2025 08:00	12/30/2025 04:05	YR
80-62-6	Methyl Methacrylate	ND		ug/m³	0.37	0.23	0.895	EPA TO-15	12/23/2025 08:00	12/30/2025 04:05	YR
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/m³	0.32	0.099	0.895	EPA TO-15	12/23/2025 08:00	12/30/2025 04:05	YR
75-09-2	Methylene chloride	ND		ug/m³	1.9	0.10	0.895	EPA TO-15	12/23/2025 08:00	12/30/2025 04:05	YR
104-51-8	* n-Butylbenzene	ND		ug/m³	0.49	0.15	0.895	EPA TO-15	12/23/2025 08:00	12/30/2025 04:05	YR
142-82-5	**n-Heptane**	35		ug/m³	0.37	0.14	0.895	EPA TO-15	12/23/2025 08:00	12/30/2025 04:05	YR
110-54-3	**n-Hexane**	8.4		ug/m³	0.32	0.099	0.895	EPA TO-15	12/23/2025 08:00	12/30/2025 04:05	YR
103-65-1	*** n-Propylbenzene**	0.84		ug/m³	0.44	0.11	0.895	EPA TO-15	12/23/2025 08:00	12/30/2025 04:05	YR
95-47-6	**o-Xylene**	5.4		ug/m³	0.39	0.14	0.895	EPA TO-15	12/23/2025 08:00	12/30/2025 04:05	YR
179601-23-1	**p- & m- Xylenes**	14		ug/m³	0.78	0.20	0.895	EPA TO-15	12/23/2025 08:00	12/30/2025 04:05	YR
622-96-8	* p-Ethyltoluene	ND		ug/m³	0.44	0.15	0.895	EPA TO-15	12/23/2025 08:00	12/30/2025 04:05	YR
99-87-6	* p-Isopropyltoluene	ND		ug/m³	0.49	0.089	0.895	EPA TO-15	12/23/2025 08:00	12/30/2025 04:05	YR
115-07-1	*** Propylene**	7.8		ug/m³	0.15	0.088	0.895	EPA TO-15	12/23/2025 08:00	12/30/2025 04:05	YR
135-98-8	* sec-Butylbenzene	ND		ug/m³	0.49	0.13	0.895	EPA TO-15	12/23/2025 08:00	12/30/2025 04:05	YR
100-42-5	**Styrene**	0.57		ug/m³	0.38	0.12	0.895	EPA TO-15	12/23/2025 08:00	12/30/2025 04:05	YR
98-06-6	* tert-Butylbenzene	ND		ug/m³	0.49	0.19	0.895	EPA TO-15	12/23/2025 08:00	12/30/2025 04:05	YR
127-18-4	Tetrachloroethylene	ND		ug/m³	0.61	0.14	0.895	EPA TO-15	12/23/2025 08:00	12/30/2025 04:05	YR
109-99-9	*** Tetrahydrofuran**	24		ug/m³	0.53	0.089	0.895	EPA TO-15	12/23/2025 08:00	12/30/2025 04:05	YR
156-60-5	trans-1,2-Dichloroethylene	ND		ug/m³	0.35	0.085	0.895	EPA TO-15	12/23/2025 08:00	12/30/2025 04:05	YR
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/m³	0.41	0.16	0.895	EPA TO-15	12/23/2025 08:00	12/30/2025 04:05	YR
79-01-6	Trichloroethylene	ND		ug/m³	0.14	0.14	0.895	EPA TO-15	12/23/2025 08:00	12/30/2025 04:05	YR
75-69-4	**Trichlorofluoromethane (Freon 11)**	1.4		ug/m³	0.50	0.18	0.895	EPA TO-15	12/23/2025 08:00	12/30/2025 04:05	YR
108-05-4	Vinyl acetate	ND		ug/m³	0.32	0.16	0.895	EPA TO-15	12/23/2025 08:00	12/30/2025 04:05	YR
593-60-2	Vinyl bromide	ND		ug/m³	0.39	0.14	0.895	EPA TO-15	12/23/2025 08:00	12/30/2025 04:05	YR

Sample Information

Client Sample ID: IA01_121925 **Sample ID: 25L1231-02**

Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25L1231	170390601	Indoor Ambient Air	December 19, 2025 4:15 pm	12/22/2025

Volatile Organic Compounds in Air by GC/MS

Sample Prepared by Method: EPA TO15 PREP

Results Reported to MDL

CAS No.	Parameter	Result	Flag	Units	RL	MDL	Dilution	Reference Method	Prepared	Analyzed	Analyst
75-01-4	Vinyl Chloride	ND		ug/m³	0.11	0.092	0.895	EPA TO-15	12/23/2025 08:00	12/30/2025 04:05	YR
1330-20-7	**Xylenes, Total**	19		ug/m³	1.2	0.32	0.895	EPA TO-15	12/23/2025 08:00	12/30/2025 04:05	YR

Data Path : C:\MassHunter\GCMS\1\data\2025\12-DEC\122925\
Data File : TV034403.D
Acq On : 30 Dec 2025 04:05 am
Operator : YR
Sample : 25L1231-02
Misc : QBTO3091525A .533X
ALS Vial : 12 Sample Multiplier: 0.895
InstName : TO15_AIR3

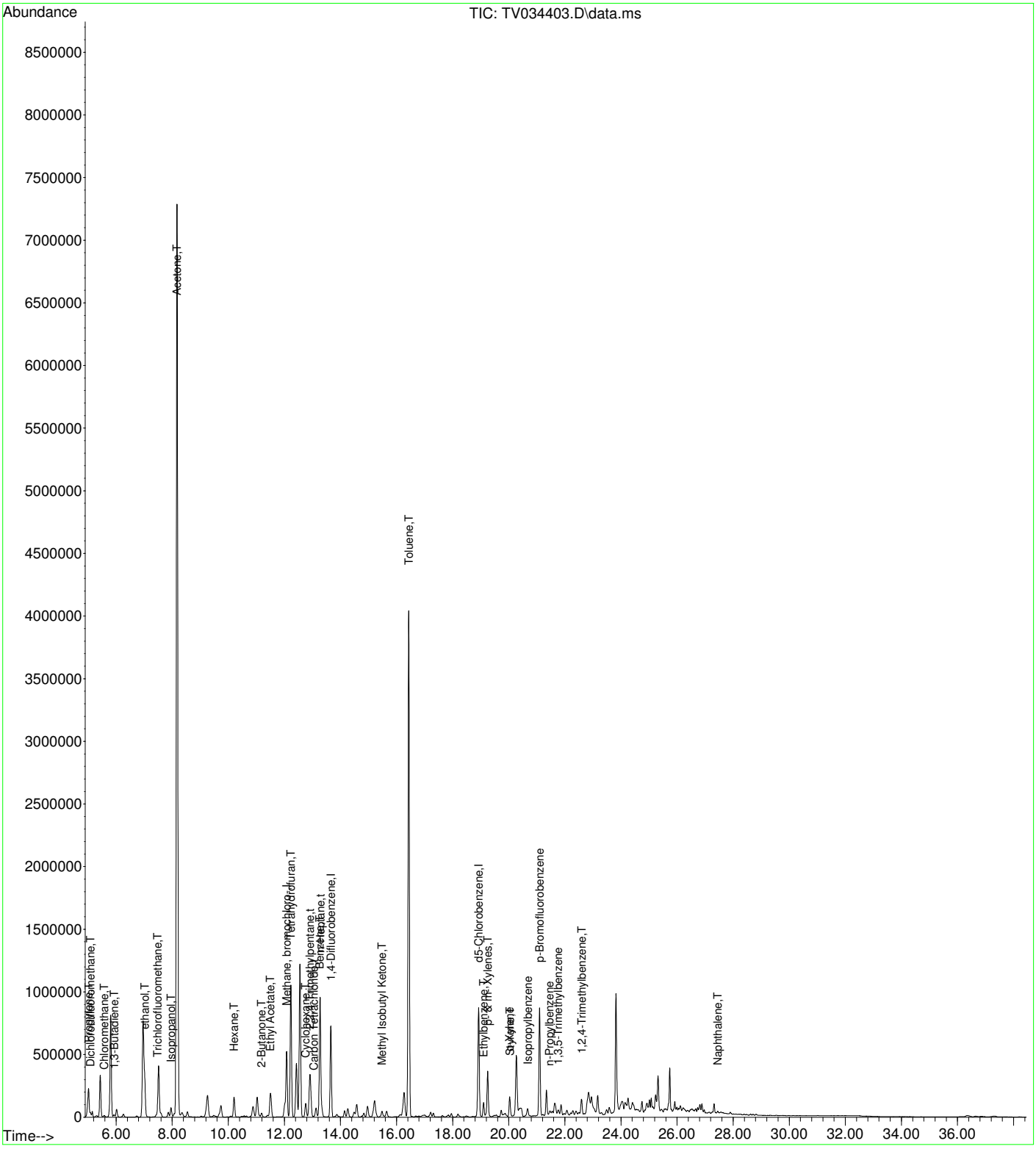
Quant Time: Dec 30 08:20:24 2025
Quant Method : C:\MassHunter\GCMS\1\methods\AIR-3-DEC052025.M
Quant Title : TO15 VOC Analysis
QLast Update : Mon Dec 08 14:43:00 2025
Response via : Initial Calibration

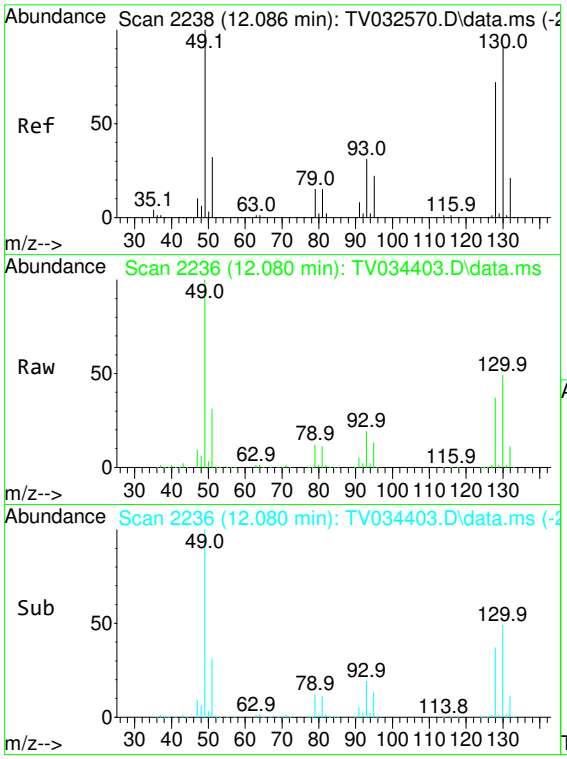
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Methane, bromochloro-	12.080	49	530825	10.00	ppbv		-0.03
39) 1,4-Difluorobenzene	13.655	114	907224	10.00	ppbv		-0.03
55) d5-Chlorobenzene	18.925	117	799512	10.00	ppbv		#-0.04
Target Compounds							Qvalue
2) Propylene	5.016	42	110593	5.09	ppbv		90
3) Dichlorodifluoromethane	5.086	85	35137	0.51	ppbv	#	96
5) Chloromethane	5.575	50	21199	0.64	ppbv		100
7) 1,3-Butadiene	5.932	54	8813	0.31	ppbv		93
10) ethanol	7.019	45	567603	30.98	ppbv		89
12) Trichlorofluoromethane	7.475	101	18893	0.27	ppbv		98
13) Isopropanol	7.958	45	171874	2.34	ppbv		100
15) Acetone	8.170	43	16366130	282.40	ppbv		96
24) Hexane	10.205	57	146491	2.67	ppbv		98
27) 2-Butanone	11.186	43	70818	0.88	ppbv		87
28) Ethyl Acetate	11.488	43	215901	2.34	ppbv		95
31) Tetrahydrofuran	12.231	42	418724	8.94	ppbv	#	31
33) Cyclohexane	12.755	56	109812	1.84	ppbv		82
34) 2,2,4-Trimethylpentane	12.909	57	519049	2.98	ppbv		89
35) Carbon Tetrachloride	13.054	117	5560	0.09	ppbv	#	58
37) Benzene	13.260	78	124936	1.70	ppbv	#	100
38) n-Heptane	13.276	43	706661	9.63	ppbv	#	95
45) Methyl Isobutyl Ketone	15.481	43	42077	0.42	ppbv	#	40
47) Toluene	16.433	91	4889016	48.91	ppbv		99
58) Ethylbenzene	19.102	91	147494	1.12	ppbv		98
59) p- & m- Xylenes	19.247	91	363176	3.53	ppbv		99
60) o-Xylene	20.028	91	147684	1.39	ppbv		99
61) Styrene	20.047	104	10775	0.15	ppbv	#	74
63) n-Propylbenzene	21.452	91	33404	0.19	ppbv		100
64) Isopropylbenzene	20.687	105	31944	0.22	ppbv		100
66) p-Bromofluorobenzene	21.099	95	534899	9.11	ppbv		92
68) 1,3,5-Trimethylbenzene	21.758	105	34426	0.29	ppbv		94
70) 1,2,4-Trimethylbenzene	22.597	105	143596	1.18	ppbv	#	99
80) Naphthalene	27.449	128	17871	0.19	ppbv		95

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

Data Path : C:\MassHunter\GCMS\1\data\2025\12-DEC\122925\
Data File : TV034403.D
Acq On : 30 Dec 2025 04:05 am
Operator : YR
Sample : 25L1231-02
Misc : QBTO3091525A .533X
ALS Vial : 12 Sample Multiplier: 0.895
InstName : TO15_AIR3

Quant Time: Dec 30 08:20:24 2025
Quant Method : C:\MassHunter\GCMS\1\methods\AIR-3-DEC052025.M
Quant Title : TO15 VOC Analysis
QLast Update : Mon Dec 08 14:43:00 2025
Response via : Initial Calibration

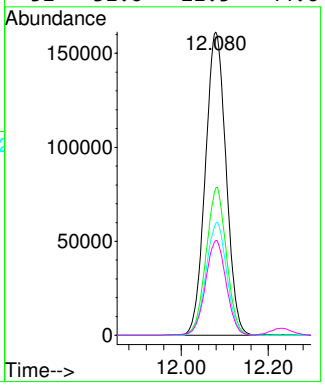


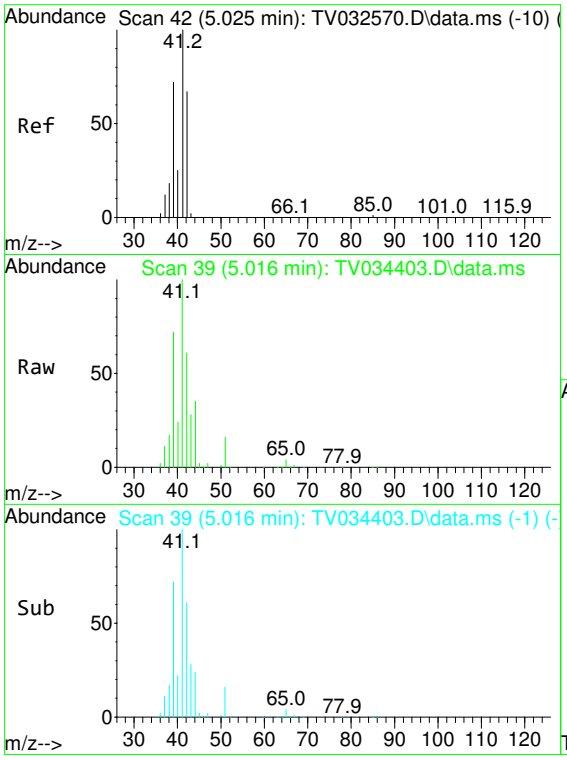


#1
Methane, bromochloro-
Concen: 10.00 ppbv
RT: 12.080 min Scan# 2236
Delta R.T. -0.031 min
Lab File: TV034403.D
Acq: 30 Dec 2025 04:05 am

Tgt Ion: 49 Resp: 530825

Ion	Ratio	Lower	Upper
49	100		
130	48.0	44.5	92.3
128	37.3	34.7	72.1
51	31.6	21.5	44.6

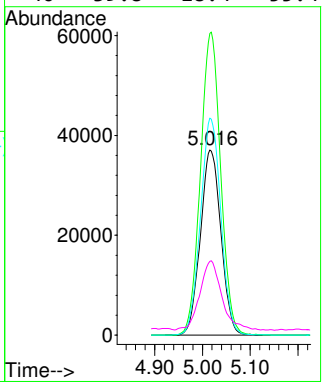


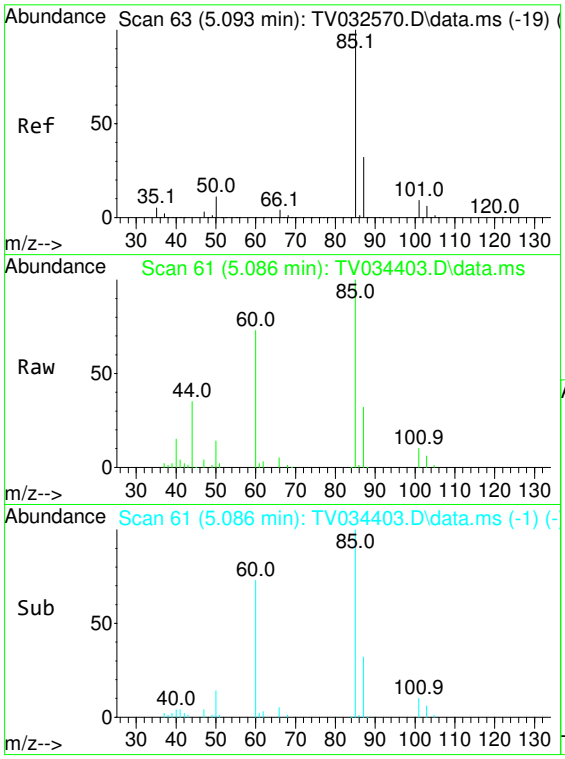


#2
Propylene
Concen: 5.09 ppbv
RT: 5.016 min Scan# 39
Delta R.T. -0.025 min
Lab File: TV034403.D
Acq: 30 Dec 2025 04:05 am

Tgt Ion: 42 Resp: 110593

Ion	Ratio	Lower	Upper
42	100		
41	161.2	88.9	207.5
39	117.0	52.2	156.6
40	39.8	18.4	55.4

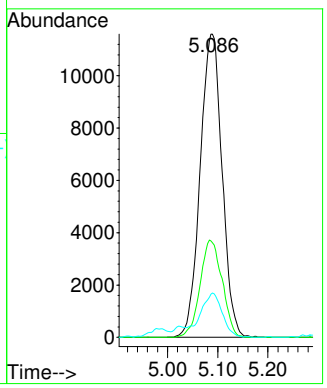


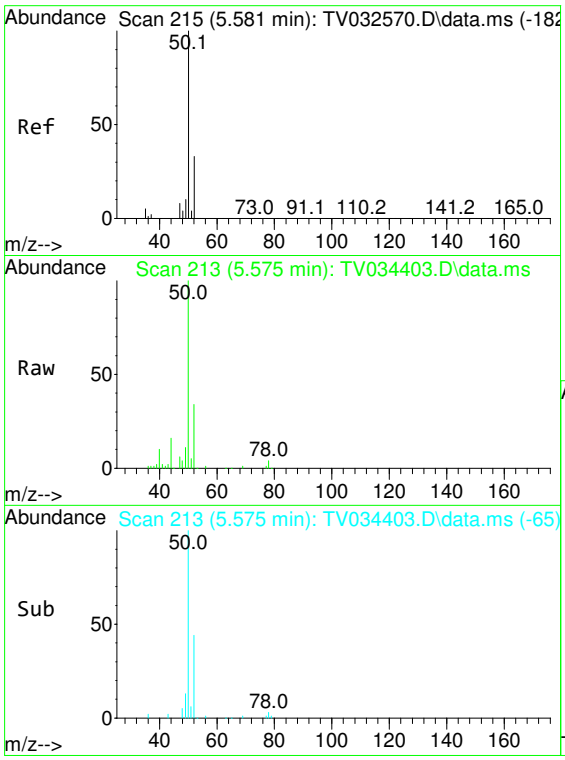


#3
Dichlorodifluoromethane
Concen: 0.51 ppbv
RT: 5.086 min Scan# 61
Delta R.T. -0.026 min
Lab File: TV034403.D
Acq: 30 Dec 2025 04:05 am

Tgt Ion: 85 Resp: 35137

Ion	Ratio	Lower	Upper
85	100		
87	32.3	21.0	43.6
50	16.5	6.8	14.2#

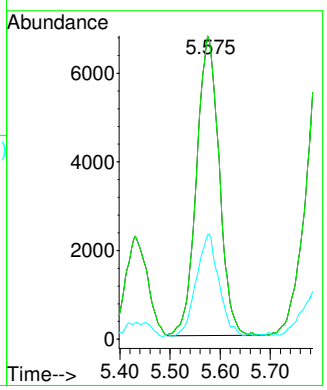


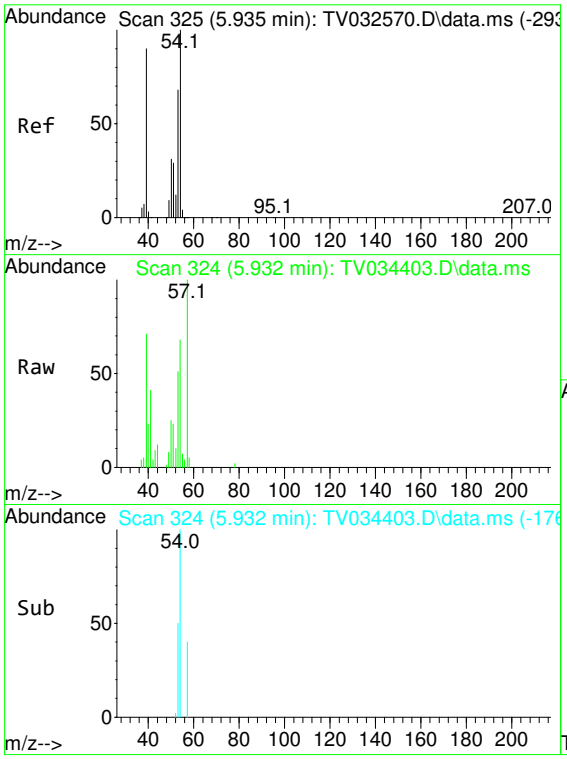


#5
Chloromethane
Concen: 0.64 ppbv
RT: 5.575 min Scan# 213
Delta R.T. -0.024 min
Lab File: TV034403.D
Acq: 30 Dec 2025 04:05 am

Tgt Ion: 50 Resp: 21199

Ion	Ratio	Lower	Upper
50	100		
50	100.0	65.0	135.0
52	33.9	16.5	49.5

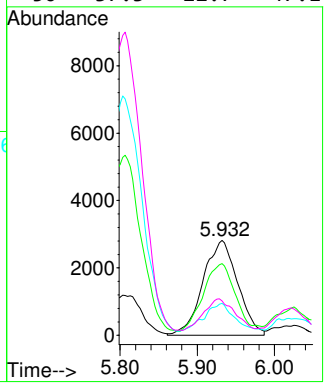


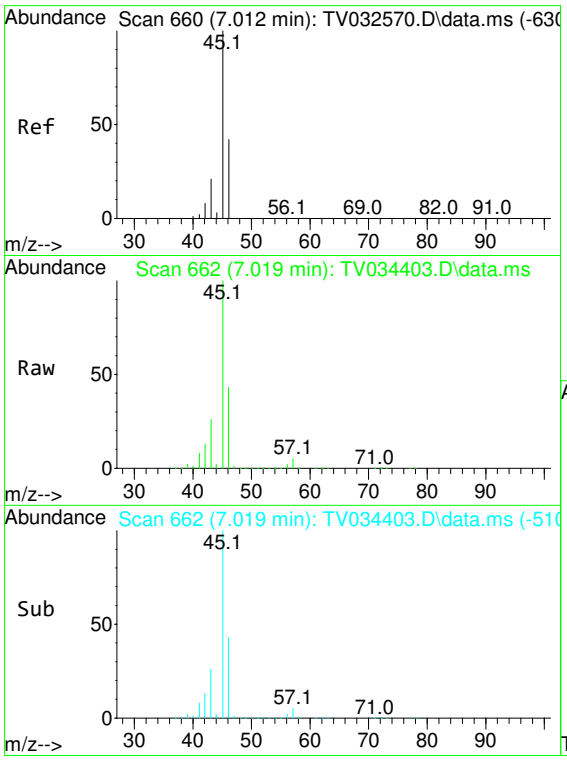


#7
1,3-Butadiene
Concen: 0.31 ppbv
RT: 5.932 min Scan# 324
Delta R.T. -0.024 min
Lab File: TV034403.D
Acq: 30 Dec 2025 04:05 am

Tgt Ion: 54 Resp: 8813

Ion	Ratio	Lower	Upper
54	100		
53	75.3	43.4	90.2
51	29.8	19.9	41.3
50	37.3	22.7	47.1

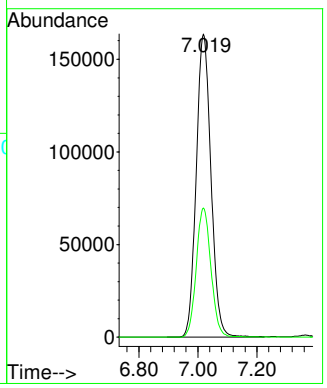


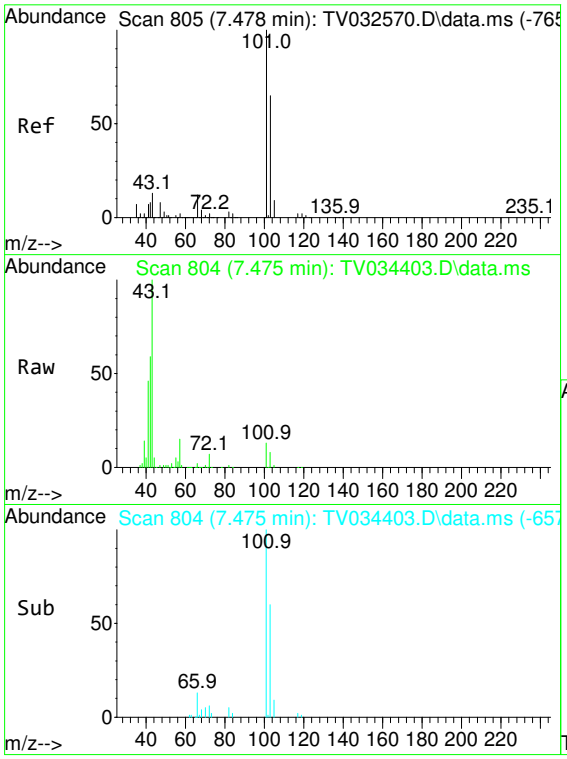


#10
ethanol
Concen: 30.98 ppbv
RT: 7.019 min Scan# 662
Delta R.T. -0.012 min
Lab File: TV034403.D
Acq: 30 Dec 2025 04:05 am

Tgt Ion: 45 Resp: 567603

Ion	Ratio	Lower	Upper
45	100		
46	42.6	40.0	60.0

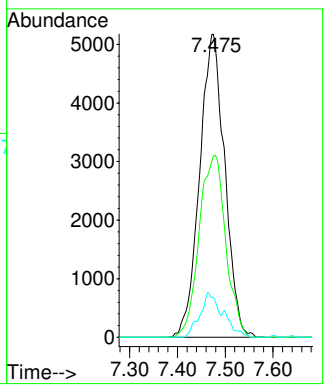


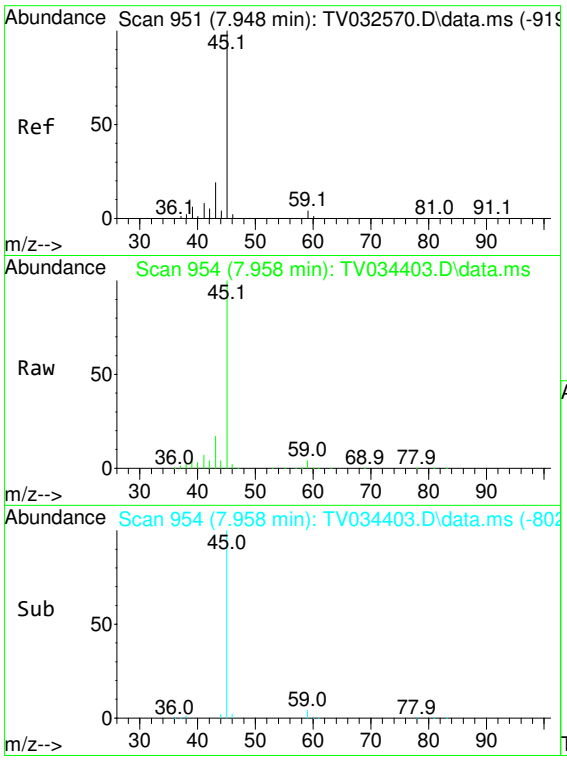


#12
Trichlorofluoromethane
Concen: 0.27 ppbv
RT: 7.475 min Scan# 804
Delta R.T. -0.027 min
Lab File: TV034403.D
Acq: 30 Dec 2025 04:05 am

Tgt Ion:101 Resp: 18893

Ion	Ratio	Lower	Upper
101	100		
103	63.4	42.4	88.0
66	13.6	7.9	16.5

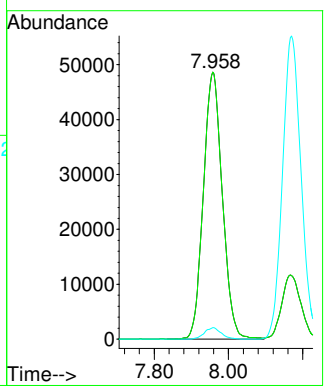


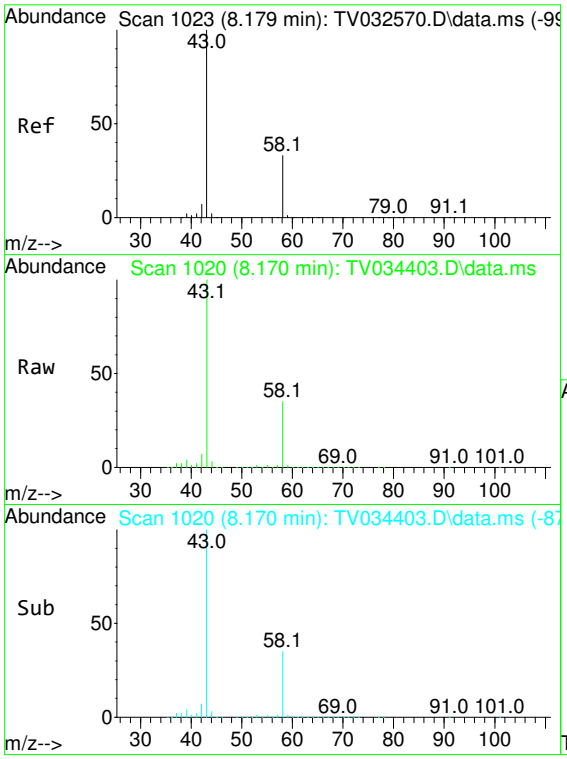


#13
Isopropanol
Concen: 2.34 ppbv
RT: 7.958 min Scan# 954
Delta R.T. -0.011 min
Lab File: TV034403.D
Acq: 30 Dec 2025 04:05 am

Tgt Ion: 45 Resp: 171874

Ion	Ratio	Lower	Upper
45	100		
45	100.0	65.0	135.0
59	3.9	0.0	8.4

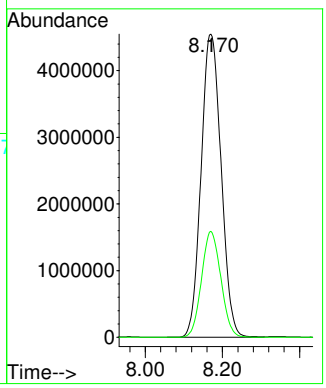


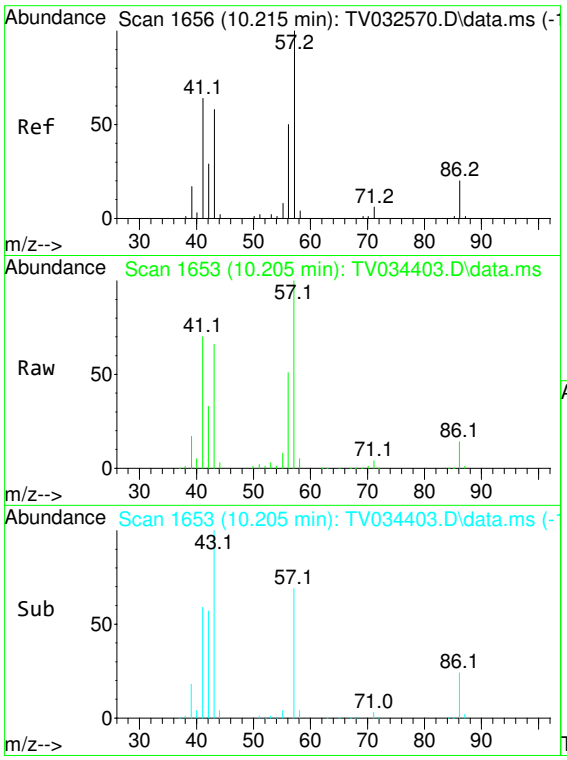


#15
Acetone
Concen: 282.40 ppbv
RT: 8.170 min Scan# 1020
Delta R.T. -0.031 min
Lab File: TV034403.D
Acq: 30 Dec 2025 04:05 am

Tgt Ion: 43 Resp:16366130

Ion	Ratio	Lower	Upper
43	100		
58	33.9	20.7	42.9

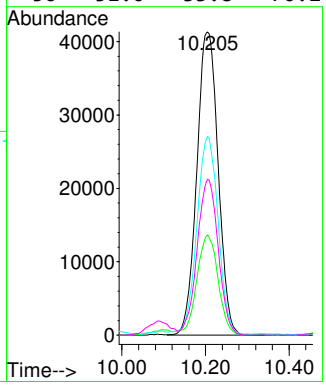


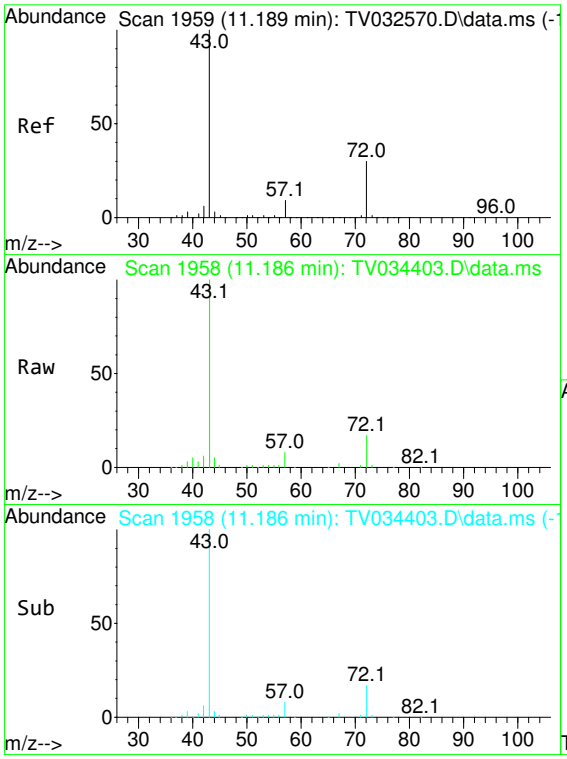


#24
Hexane
Concen: 2.67 ppbv
RT: 10.205 min Scan# 1653
Delta R.T. -0.029 min
Lab File: TV034403.D
Acq: 30 Dec 2025 04:05 am

Tgt Ion: 57 Resp: 146491

Ion	Ratio	Lower	Upper
57	100		
42	32.8	22.2	46.0
43	65.0	42.9	89.1
56	51.0	33.8	70.2

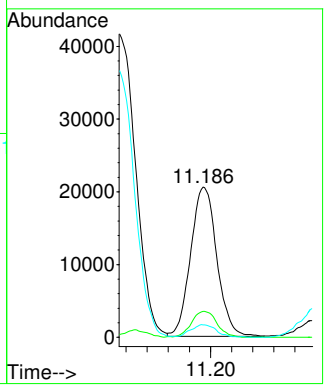


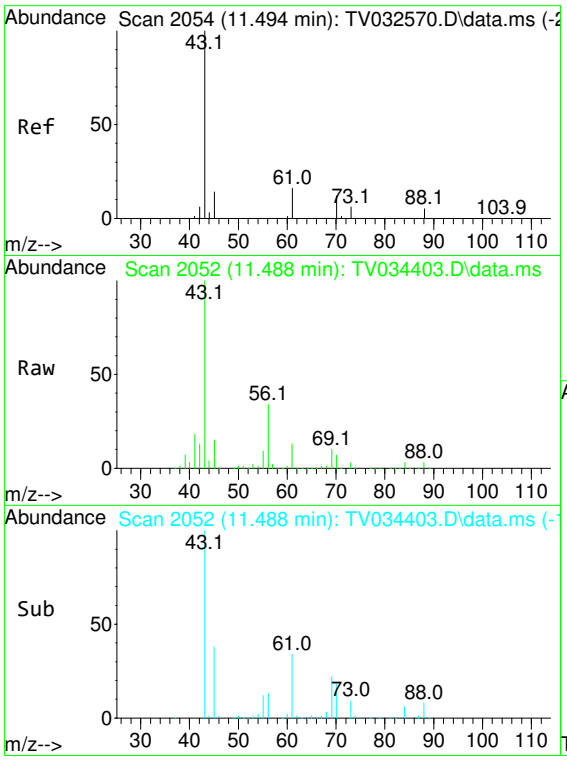


#27
2-Butanone
Concen: 0.88 ppbv
RT: 11.186 min Scan# 1958
Delta R.T. -0.026 min
Lab File: TV034403.D
Acq: 30 Dec 2025 04:05 am

Tgt Ion: 43 Resp: 70818

Ion	Ratio	Lower	Upper
43	100		
72	17.0	16.4	34.2
57	8.5	5.0	10.4

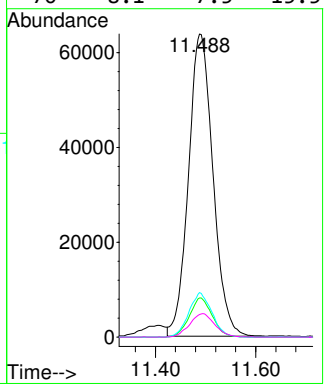


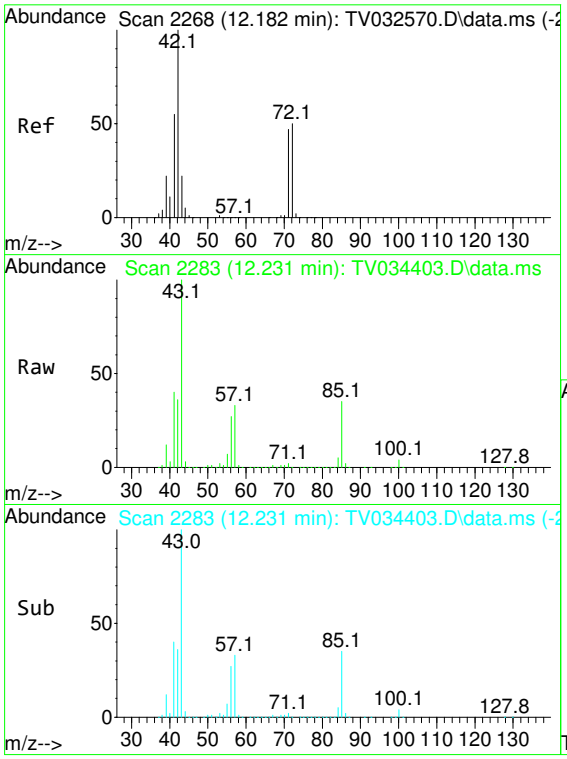


#28
Ethyl Acetate
Concen: 2.34 ppbv
RT: 11.488 min Scan# 2052
Delta R.T. -0.031 min
Lab File: TV034403.D
Acq: 30 Dec 2025 04:05 am

Tgt Ion: 43 Resp: 215901

Ion	Ratio	Lower	Upper
43	100		
61	12.2	9.2	19.2
45	14.0	9.4	19.6
70	8.1	7.5	15.5

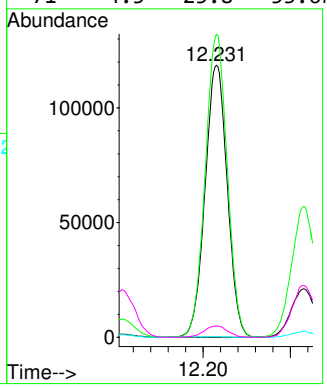


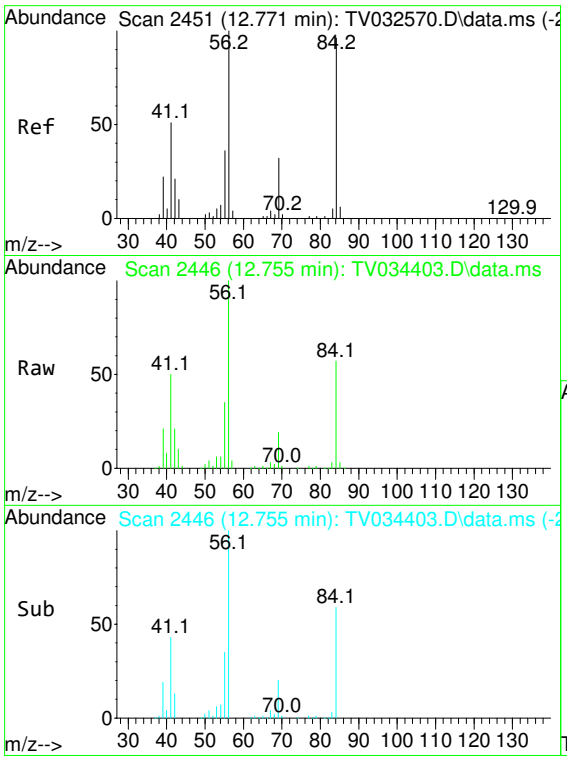


#31
Tetrahydrofuran
Concen: 8.94 ppbv
RT: 12.231 min Scan# 2283
Delta R.T. 0.029 min
Lab File: TV034403.D
Acq: 30 Dec 2025 04:05 am

Tgt Ion: 42 Resp: 418724

Ion	Ratio	Lower	Upper
42	100		
41	110.4	34.5	71.7#
72	0.4	27.4	56.8#
71	4.5	25.8	53.6#

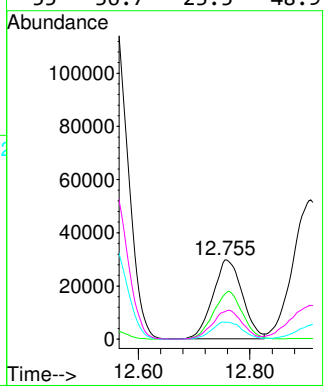


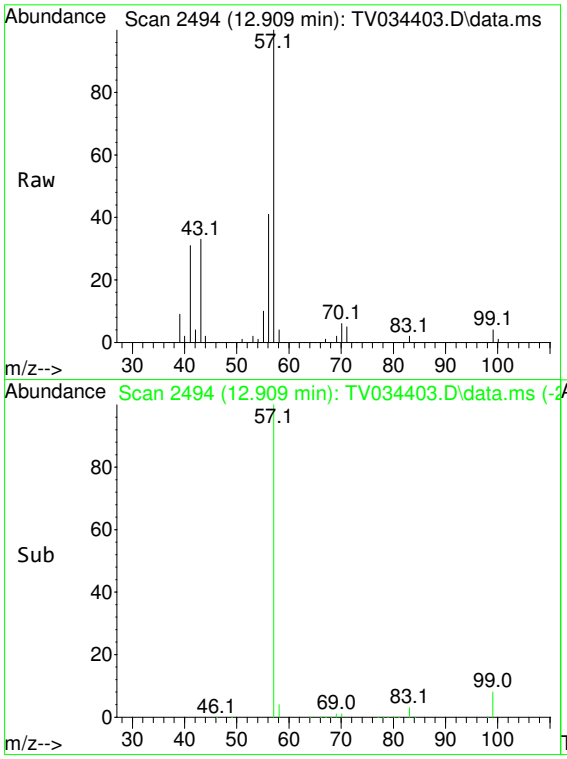


#33
Cyclohexane
Concen: 1.84 ppbv
RT: 12.755 min Scan# 2446
Delta R.T. -0.039 min
Lab File: TV034403.D
Acq: 30 Dec 2025 04:05 am

Tgt Ion: 56 Resp: 109812

Ion	Ratio	Lower	Upper
56	100		
84	59.1	56.4	117.0
42	22.6	15.3	31.7
55	36.7	23.5	48.9

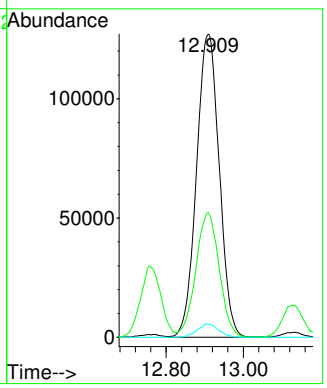


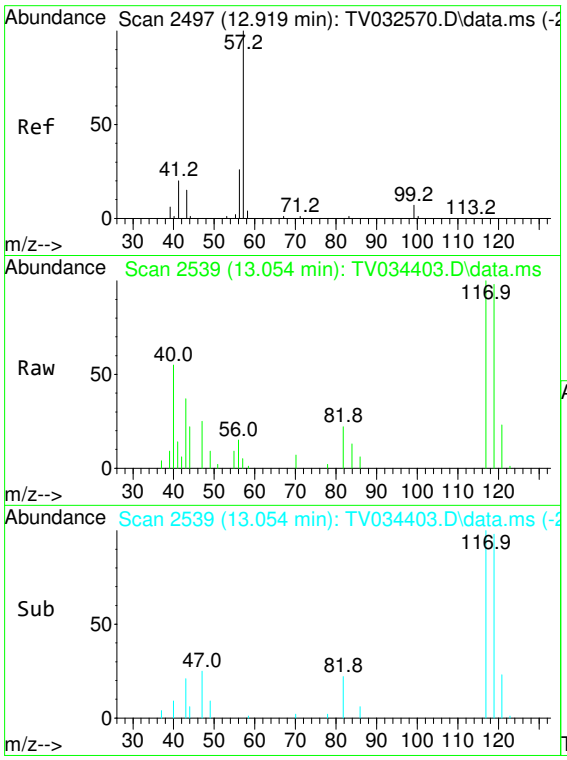


#34
2,2,4-Trimethylpentane
Concen: 2.98 ppbv
RT: 12.909 min Scan# 2494
Delta R.T. -0.029 min
Lab File: TV034403.D
Acq: 30 Dec 2025 04:05 am

Tgt Ion: 57 Resp: 519049

Ion	Ratio	Lower	Upper
57	100		
56	42.3	24.5	45.5
99	4.2	3.5	6.5

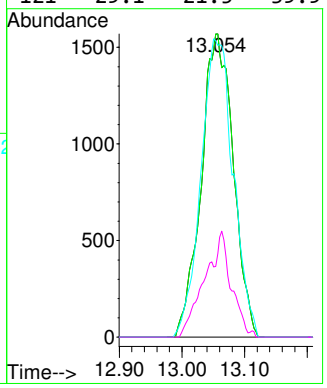


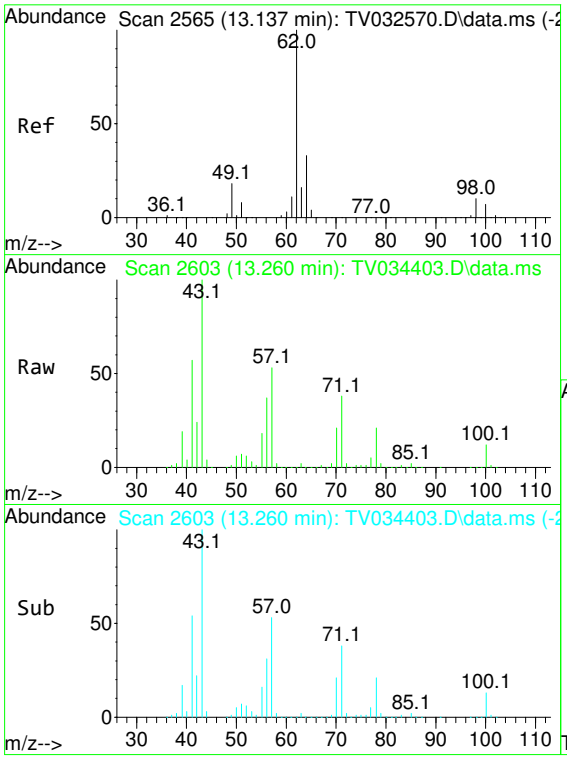


#35
Carbon Tetrachloride
Concen: 0.09 ppbv
RT: 13.054 min Scan# 2539
Delta R.T. -0.034 min
Lab File: TV034403.D
Acq: 30 Dec 2025 04:05 am

Tgt Ion:117 Resp: 5560

Ion	Ratio	Lower	Upper
117	100		
117	100.0	80.0	120.0
119	0.0	76.5	114.7#
121	29.1	21.5	39.9

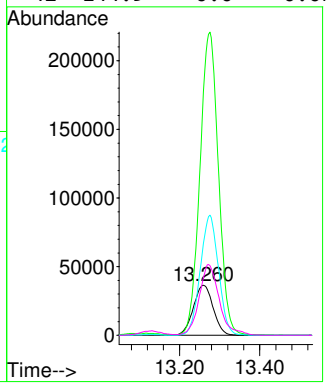


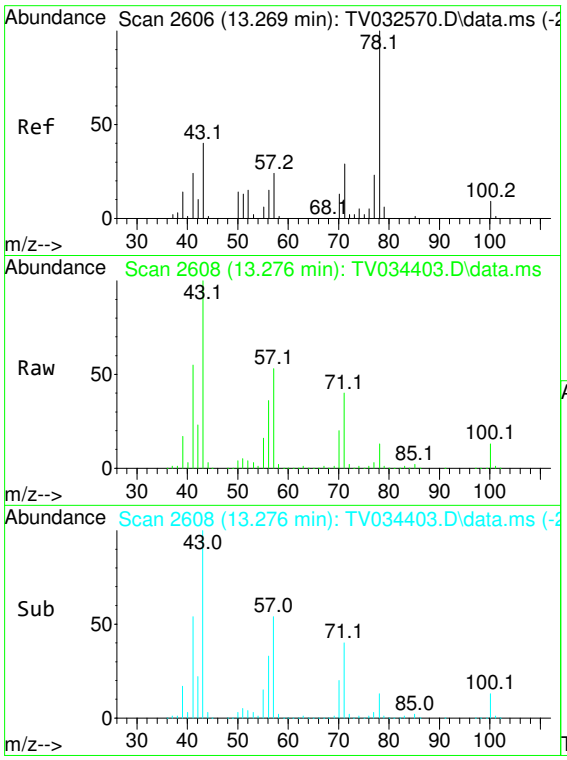


#37
Benzene
Concen: 1.70 ppbv
RT: 13.260 min Scan# 2603
Delta R.T. -0.034 min
Lab File: TV034403.D
Acq: 30 Dec 2025 04:05 am

Tgt Ion: 78 Resp: 124936

Ion	Ratio	Lower	Upper
78	100		
43	565.6	0.0	0.0#
71	221.3	0.0	0.0#
42	144.9	0.0	0.0#

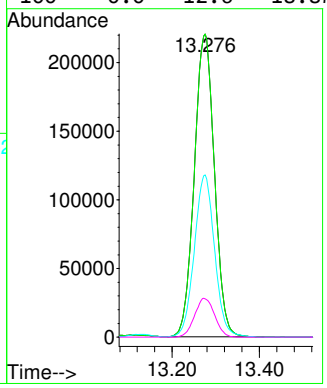


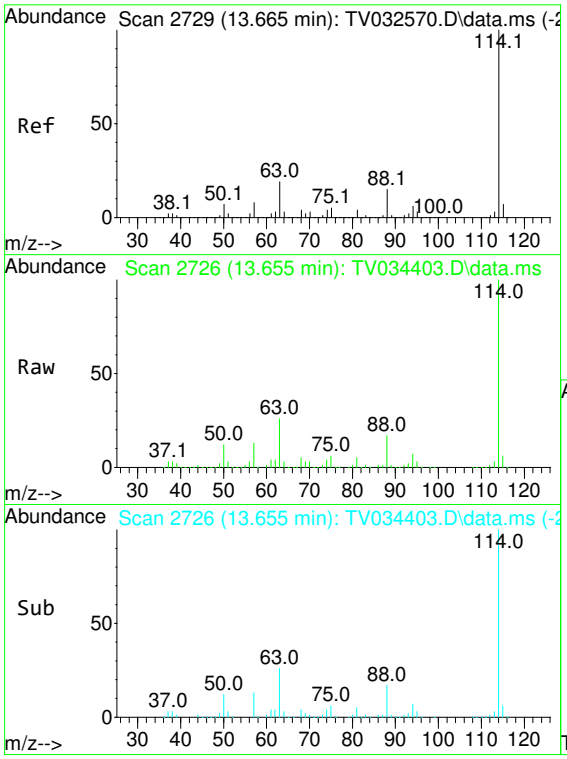


#38
n-Heptane
Concen: 9.63 ppbv
RT: 13.276 min Scan# 2608
Delta R.T. -0.028 min
Lab File: TV034403.D
Acq: 30 Dec 2025 04:05 am

Tgt Ion: 43 Resp: 706661

Ion	Ratio	Lower	Upper
43	100		
43	100.0	80.0	120.0
57	54.2	39.8	59.8
100	0.0	12.6	18.8#

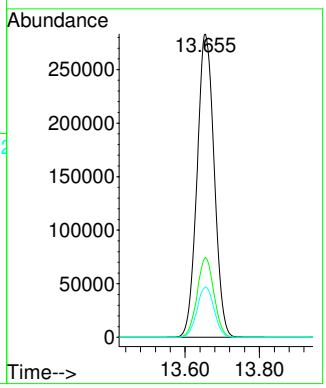


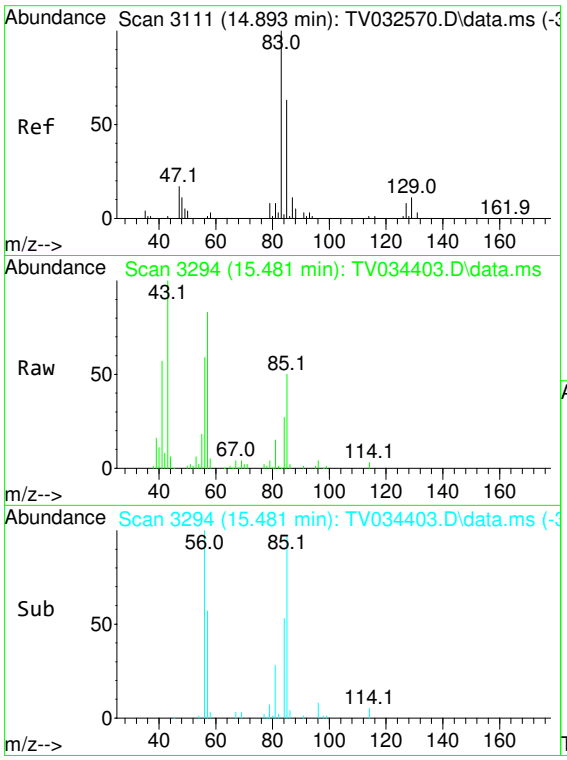


#39
1,4-Difluorobenzene
Concen: 10.00 ppbv
RT: 13.655 min Scan# 2726
Delta R.T. -0.034 min
Lab File: TV034403.D
Acq: 30 Dec 2025 04:05 am

Tgt Ion:114 Resp: 907224

Ion	Ratio	Lower	Upper
114	100		
63	26.0	14.0	29.2
88	16.6	11.2	23.2

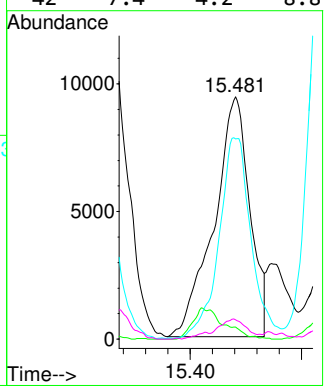


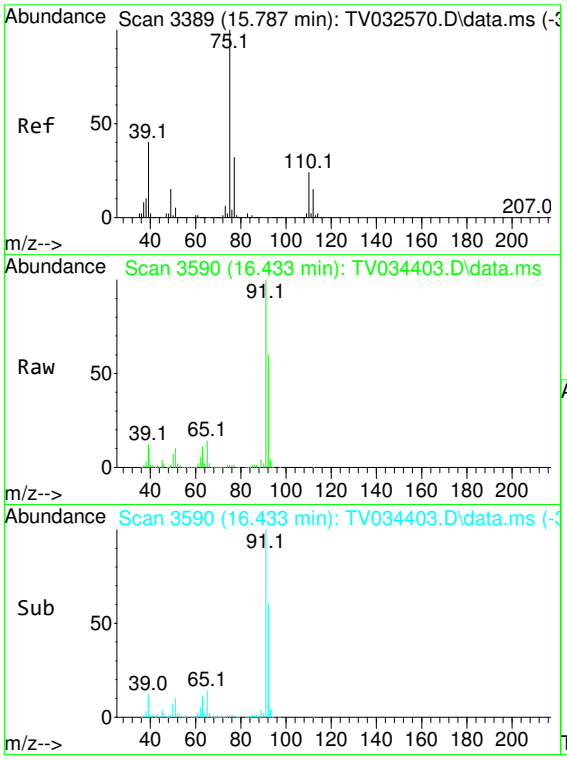


#45
Methyl Isobutyl Ketone
Concen: 0.42 ppbv
RT: 15.481 min Scan# 3294
Delta R.T. 0.027 min
Lab File: TV034403.D
Acq: 30 Dec 2025 04:05 am

Tgt Ion: 43 Resp: 42077

Ion	Ratio	Lower	Upper
43	100		
58	11.6	25.3	52.5#
57	74.8	16.1	33.5#
42	7.4	4.2	8.8

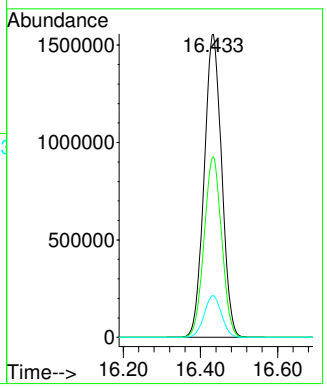


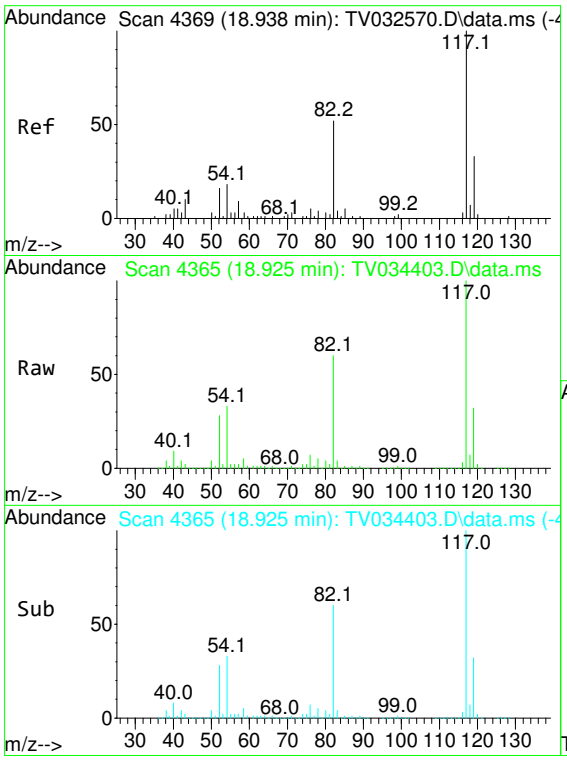


#47
Toluene
Concen: 48.91 ppbv
RT: 16.433 min Scan# 3590
Delta R.T. -0.035 min
Lab File: TV034403.D
Acq: 30 Dec 2025 04:05 am

Tgt Ion: 91 Resp: 4889016

Ion	Ratio	Lower	Upper
91	100		
92	59.7	39.0	81.0
65	13.7	7.7	16.1

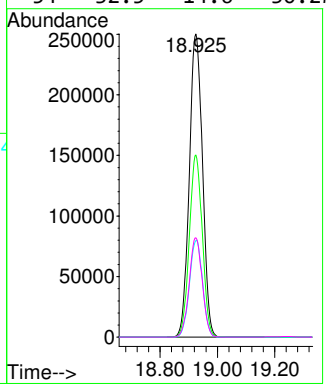


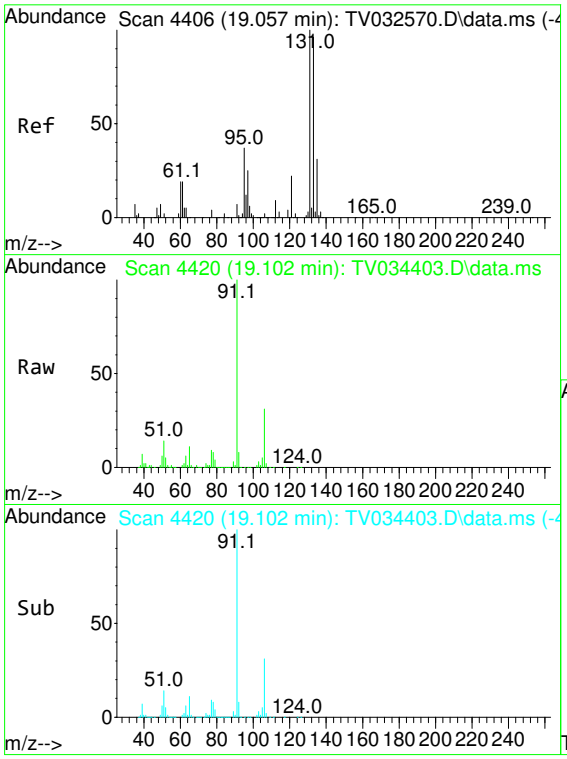


#55
d5-Chlorobenzene
Concen: 10.00 ppbv
RT: 18.925 min Scan# 4365
Delta R.T. -0.037 min
Lab File: TV034403.D
Acq: 30 Dec 2025 04:05 am

Tgt Ion:117 Resp: 799512

Ion	Ratio	Lower	Upper
117	100		
82	59.4	38.7	80.5
119	31.9	20.3	42.3
54	32.5	14.6	30.2#

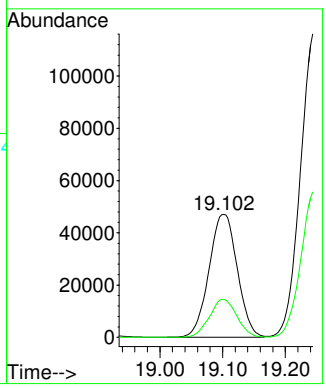


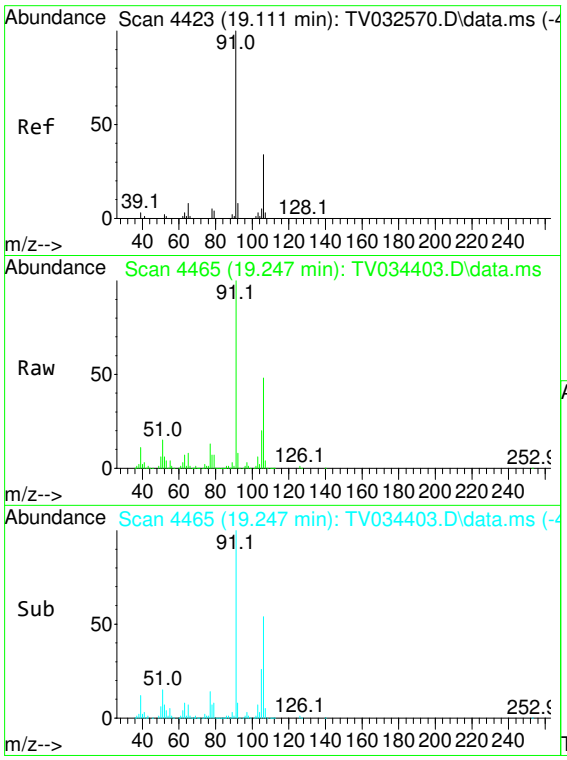


#58
Ethylbenzene
Concen: 1.12 ppbv
RT: 19.102 min Scan# 4420
Delta R.T. -0.033 min
Lab File: TV034403.D
Acq: 30 Dec 2025 04:05 am

Tgt Ion: 91 Resp: 147494

Ion	Ratio	Lower	Upper
91	100		
106	30.0	20.3	42.3

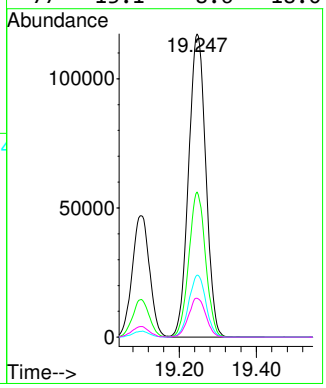


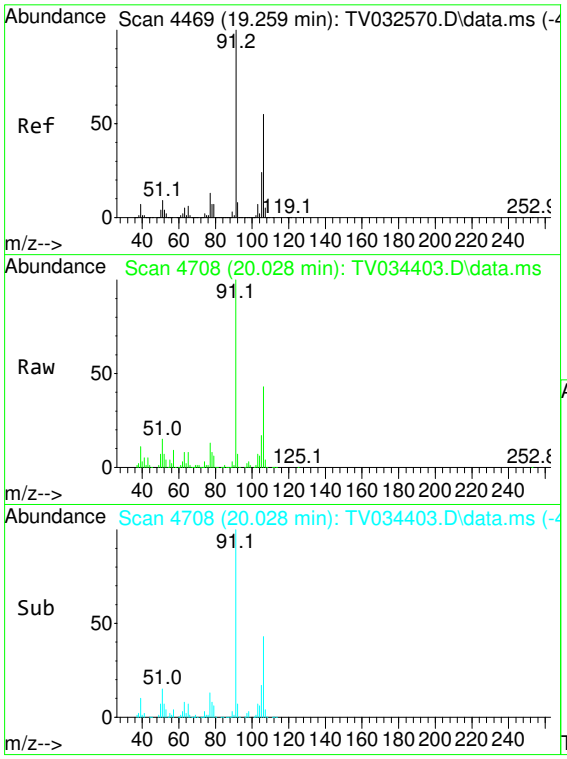


#59
p- & m- Xylenes
Concen: 3.53 ppbv
RT: 19.247 min Scan# 4465
Delta R.T. -0.035 min
Lab File: TV034403.D
Acq: 30 Dec 2025 04:05 am

Tgt Ion: 91 Resp: 363176

Ion	Ratio	Lower	Upper
91	100		
106	46.6	31.0	64.4
105	20.3	13.4	27.8
77	13.1	8.6	18.0

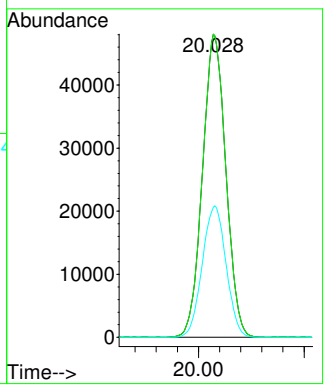


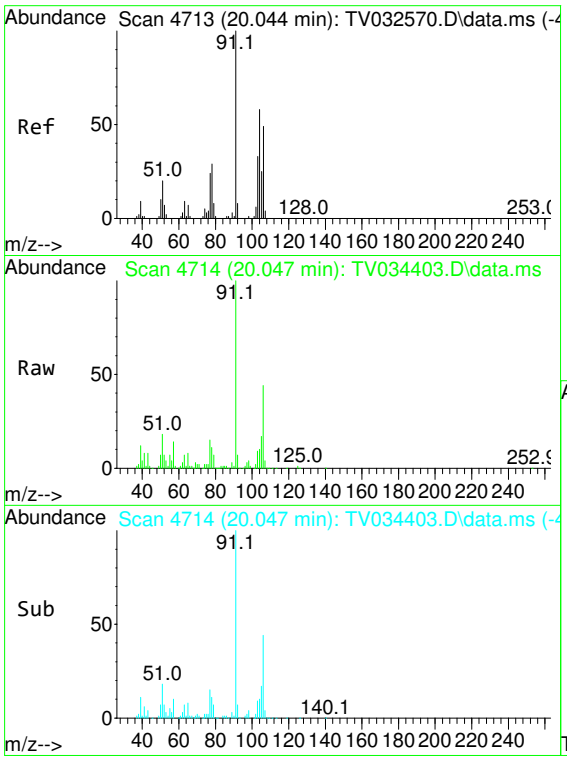


#60
o-Xylene
Concen: 1.39 ppbv
RT: 20.028 min Scan# 4708
Delta R.T. -0.038 min
Lab File: TV034403.D
Acq: 30 Dec 2025 04:05 am

Tgt Ion: 91 Resp: 147684

Ion	Ratio	Lower	Upper
91	100		
91	100.0	80.0	120.0
106	44.2	36.9	55.3

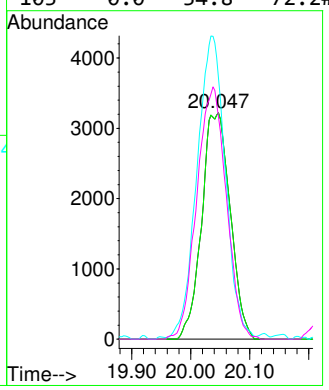


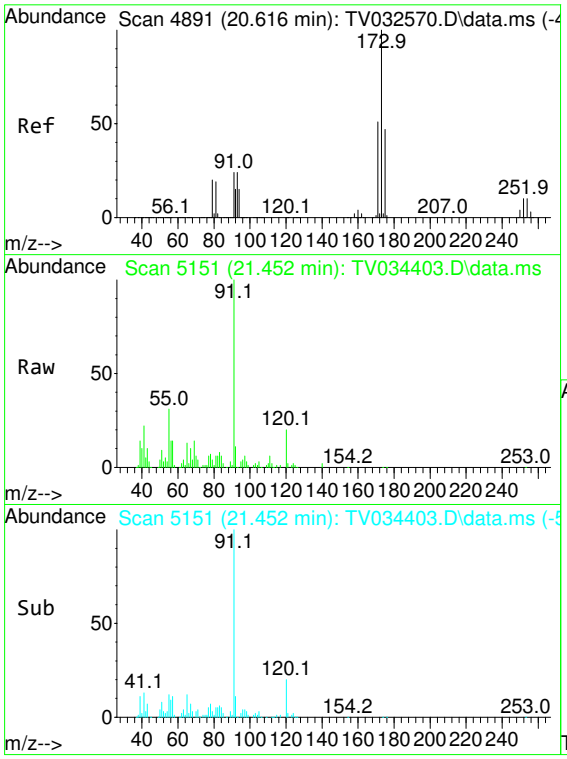


#61
Styrene
Concen: 0.15 ppbv
RT: 20.047 min Scan# 4714
Delta R.T. -0.036 min
Lab File: TV034403.D
Acq: 30 Dec 2025 04:05 am

Tgt Ion:104 Resp: 10775

Ion	Ratio	Lower	Upper
104	100		
104	100.0	65.0	135.0
78	0.0	0.0	0.0
103	0.0	34.8	72.2#

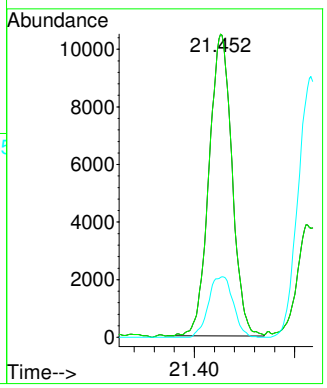


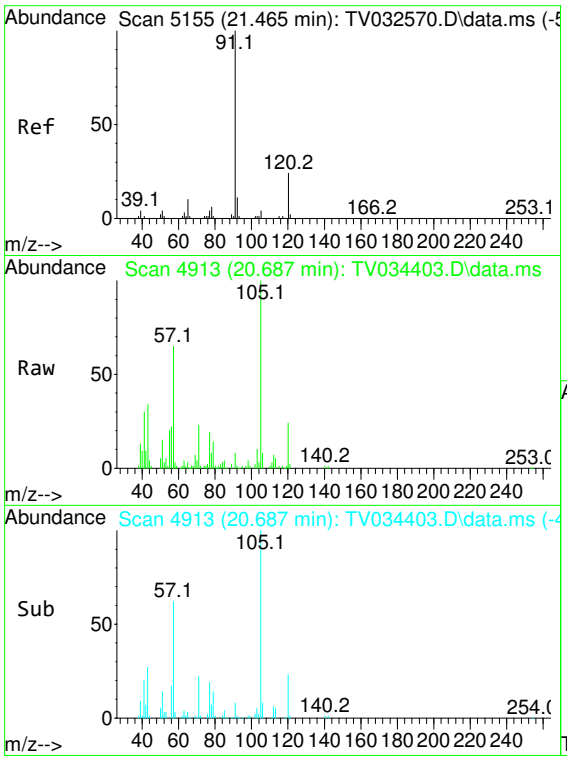


#63
n-Propylbenzene
Concen: 0.19 ppbv
RT: 21.452 min Scan# 5151
Delta R.T. -0.036 min
Lab File: TV034403.D
Acq: 30 Dec 2025 04:05 am

Tgt Ion: 91 Resp: 33404

Ion	Ratio	Lower	Upper
91	100		
91	100.0	80.0	120.0
120	21.6	11.0	33.0

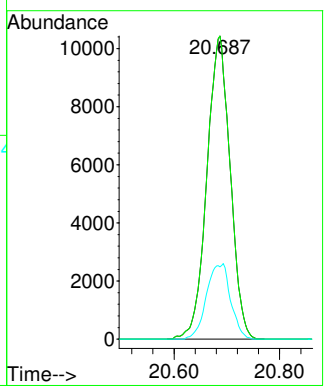


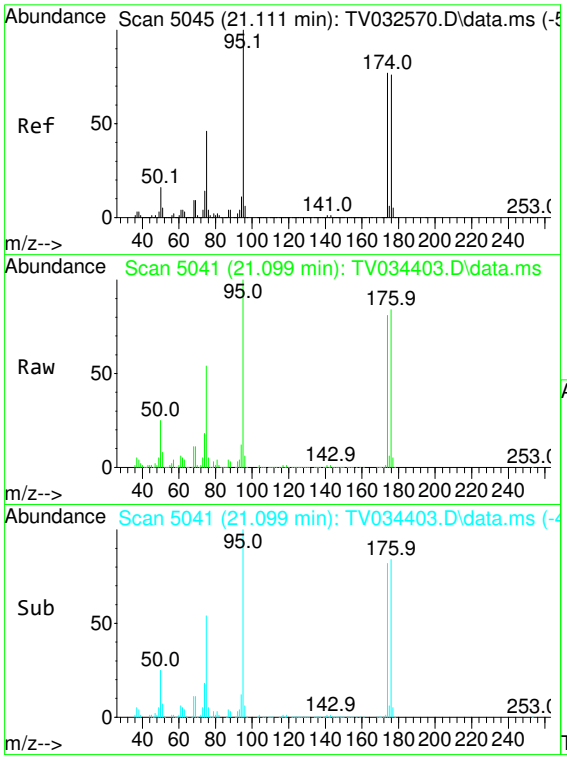


#64
Isopropylbenzene
Concen: 0.22 ppbv
RT: 20.687 min Scan# 4913
Delta R.T. -0.033 min
Lab File: TV034403.D
Acq: 30 Dec 2025 04:05 am

Tgt Ion:105 Resp: 31944

Ion	Ratio	Lower	Upper
105	100		
105	100.0	80.0	120.0
120	25.7	13.1	39.1

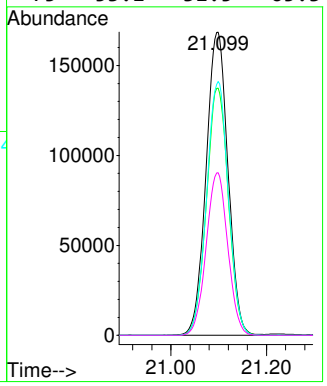


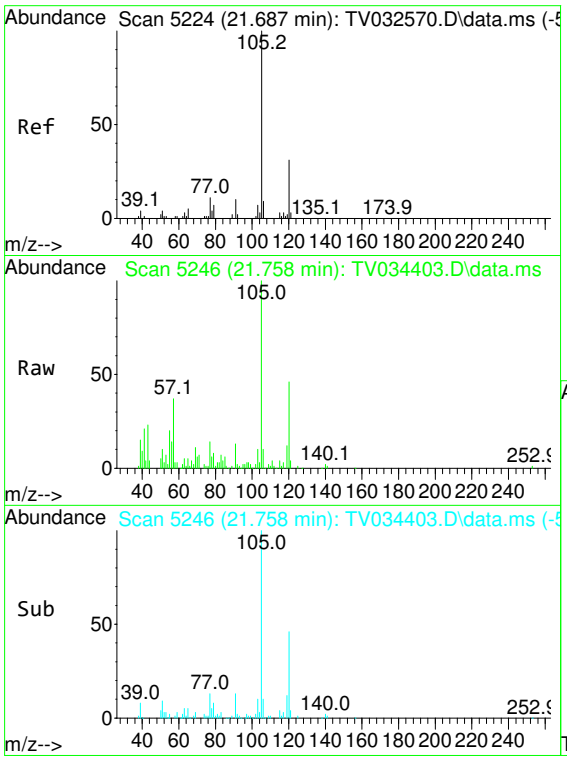


#66
p-Bromofluorobenzene
Concen: 9.11 ppbv
RT: 21.099 min Scan# 5041
Delta R.T. -0.036 min
Lab File: TV034403.D
Acq: 30 Dec 2025 04:05 am

Tgt Ion: 95 Resp: 534899

Ion	Ratio	Lower	Upper
95	100		
174	81.8	50.0	103.8
176	83.6	48.2	100.2
75	53.1	31.5	65.3

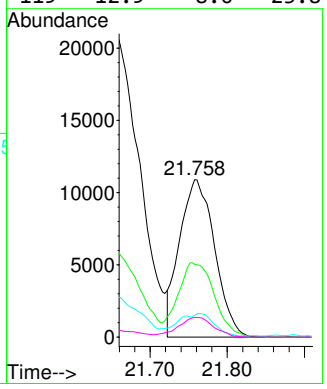


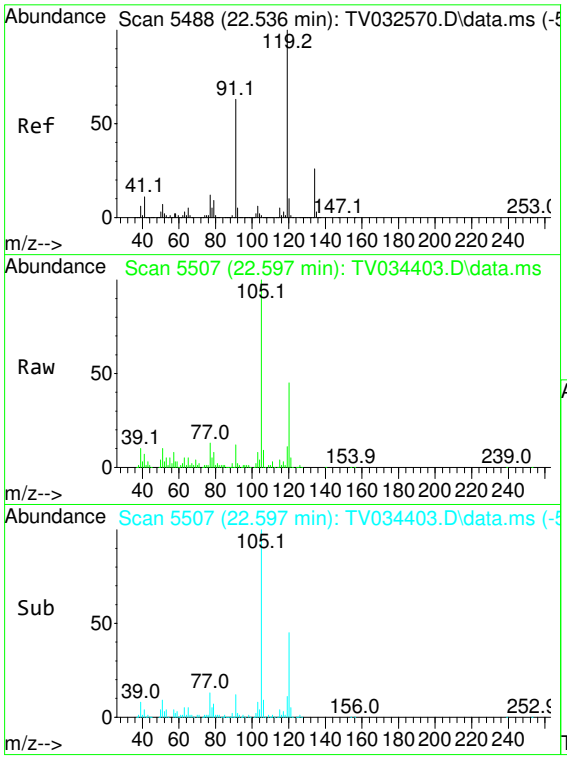


#68
1,3,5-Trimethylbenzene
Concen: 0.29 ppbv
RT: 21.758 min Scan# 5246
Delta R.T. -0.041 min
Lab File: TV034403.D
Acq: 30 Dec 2025 04:05 am

Tgt Ion:105 Resp: 34426

Ion	Ratio	Lower	Upper
105	100		
120	49.6	43.4	65.2
77	14.8	10.8	16.2
119	12.9	8.0	23.8

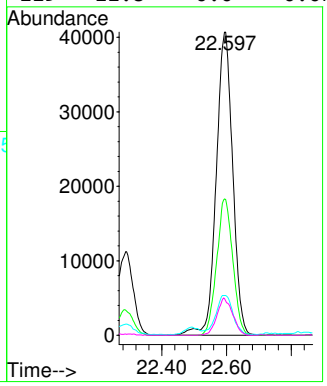


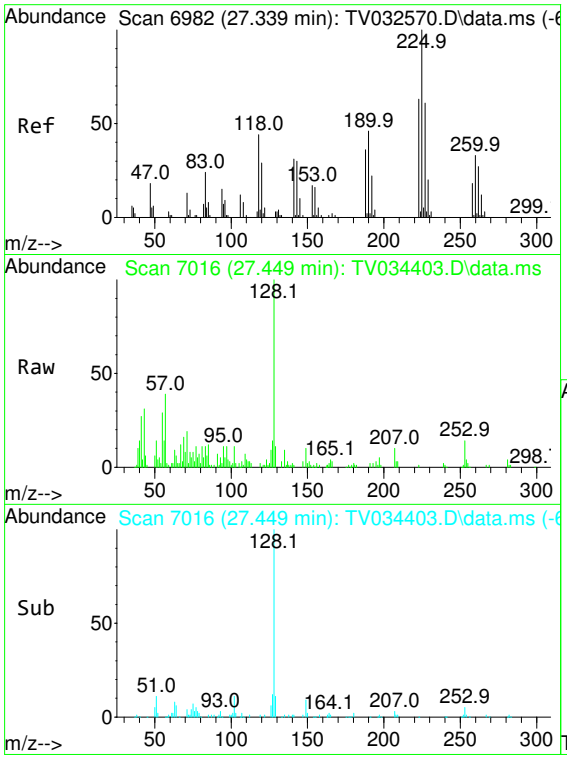


#70
1,2,4-Trimethylbenzene
Concen: 1.18 ppbv
RT: 22.597 min Scan# 5507
Delta R.T. -0.039 min
Lab File: TV034403.D
Acq: 30 Dec 2025 04:05 am

Tgt Ion:105 Resp: 143596

Ion	Ratio	Lower	Upper
105	100		
120	44.0	29.0	60.2
77	13.3	8.2	17.0
119	11.8	0.0	0.0#

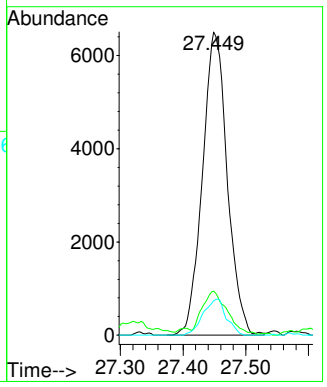




#80
Naphthalene
Concen: 0.19 ppbv
RT: 27.449 min Scan# 7016
Delta R.T. -0.041 min
Lab File: TV034403.D
Acq: 30 Dec 2025 04:05 am

Tgt Ion:128 Resp: 17871

Ion	Ratio	Lower	Upper
128	100		
127	16.4	8.1	16.9
129	11.1	7.3	15.1



Sample Information

Client Sample ID: IA01_121925 **Sample ID: 25L1231-02RE1**

Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25L1231	170390601	Indoor Ambient Air	December 19, 2025 4:15 pm	12/22/2025

Volatile Organic Compounds in Air by GC/MS

Sample Prepared by Method: EPA TO15 PREP

Results Reported to MDL

CAS No.	Parameter	Result	Flag	Units	RL	MDL	Dilution	Reference Method	Prepared	Analyzed	Analyst
67-64-1	**Acetone**	680		ug/m³	200	20	16.61	EPA TO-15	12/30/2025 08:00	12/30/2025 20:38	YR
108-88-3	**Toluene**	170		ug/m³	6.3	2.5	16.61	EPA TO-15	12/30/2025 08:00	12/30/2025 20:38	YR

Quantitation Report (QT Reviewed)

Data Path : C:\MassHunter\GCMS\1\data\2025\12-DEC\123025\
Data File : TV034424.D
Acq On : 30 Dec 2025 08:38 pm
Operator : YR
Sample : 25L1231-02RE1
Misc : QBTO3091525A 10X
ALS Vial : 12 Sample Multiplier: 16.61
InstName : TO15_AIR3

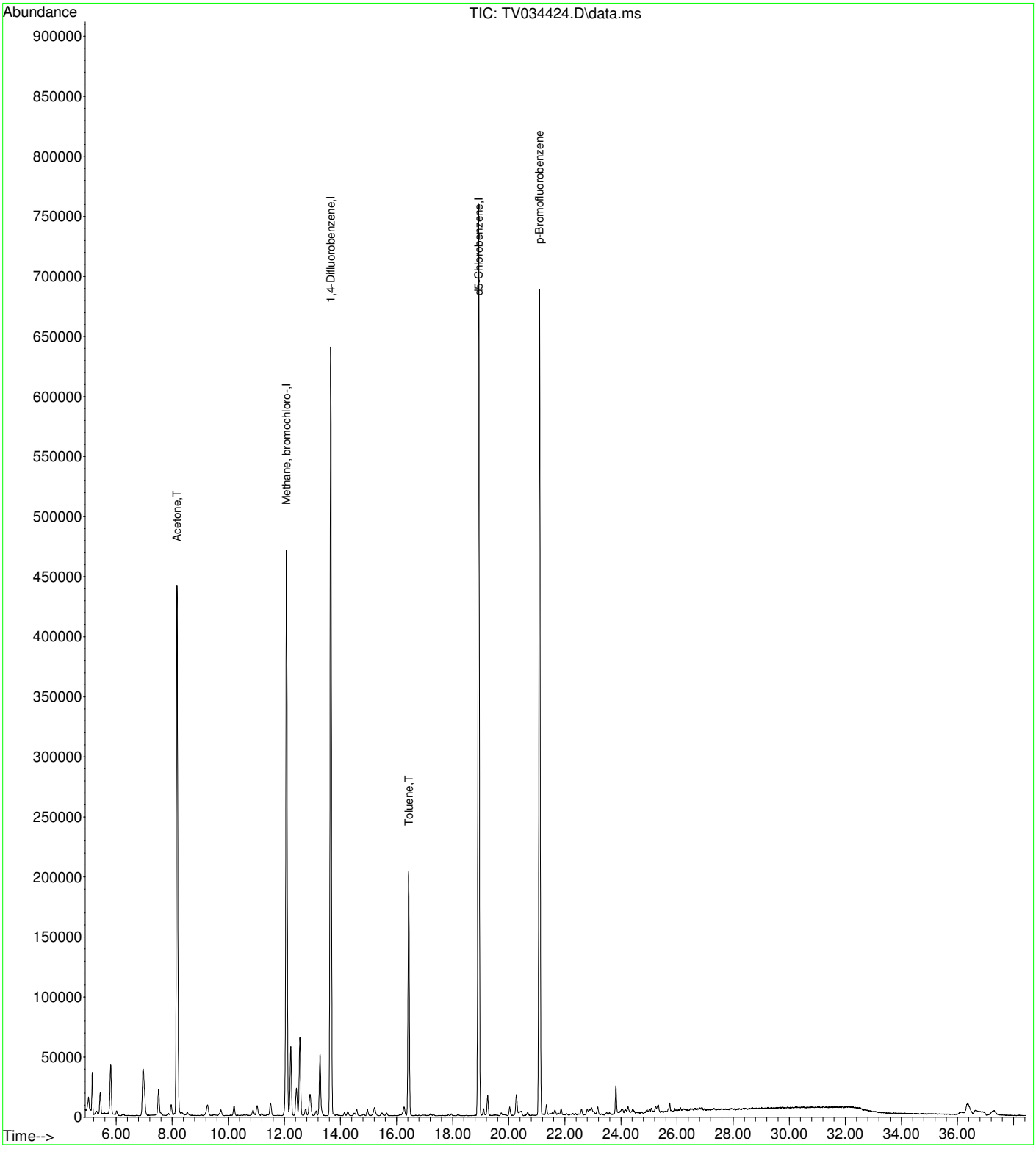
Quant Time: Dec 31 08:21:55 2025
Quant Method : C:\MassHunter\GCMS\1\methods\AIR-3-DEC052025.M
Quant Title : TO15 VOC Analysis
QLast Update : Mon Dec 08 14:43:00 2025
Response via : Initial Calibration

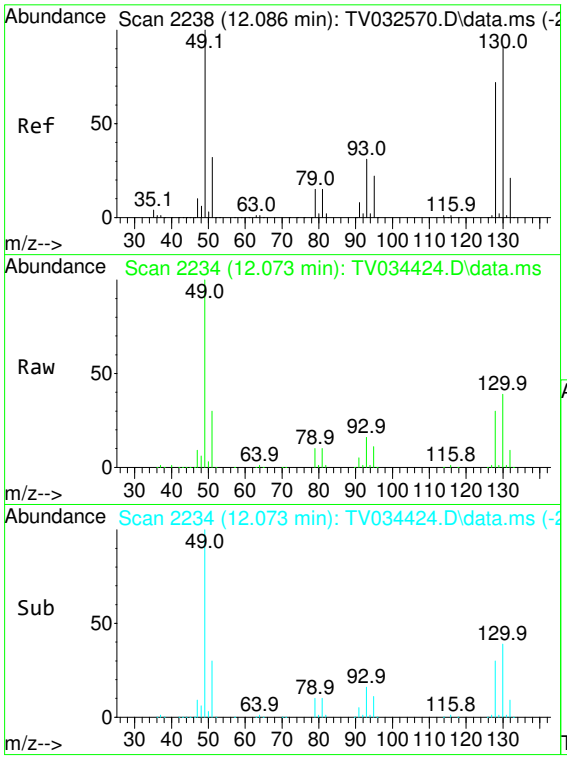
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Methane, bromochloro-	12.073	49	537582	10.00	ppbv	#-0.04
39) 1,4-Difluorobenzene	13.648	114	779456	10.00	ppbv	-0.04
55) d5-Chlorobenzene	18.925	117	678045	10.00	ppbv	#-0.04
Target Compounds						Qvalue
15) Acetone	8.173	43	1014686	17.29	ppbv	94
47) Toluene	16.430	91	238995	2.78	ppbv	98
66) p-Bromofluorobenzene	21.095	95	412770	8.29	ppbv	94

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

Data Path : C:\MassHunter\GCMS\1\data\2025\12-DEC\123025\
Data File : TV034424.D
Acq On : 30 Dec 2025 08:38 pm
Operator : YR
Sample : 25L1231-02RE1
Misc : QBTO3091525A 10X
ALS Vial : 12 Sample Multiplier: 16.61
InstName : TO15_AIR3

Quant Time: Dec 31 08:21:55 2025
Quant Method : C:\MassHunter\GCMS\1\methods\AIR-3-DEC052025.M
Quant Title : TO15 VOC Analysis
QLast Update : Mon Dec 08 14:43:00 2025
Response via : Initial Calibration

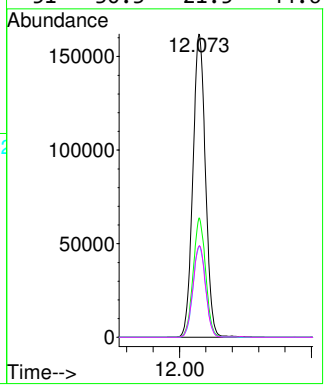


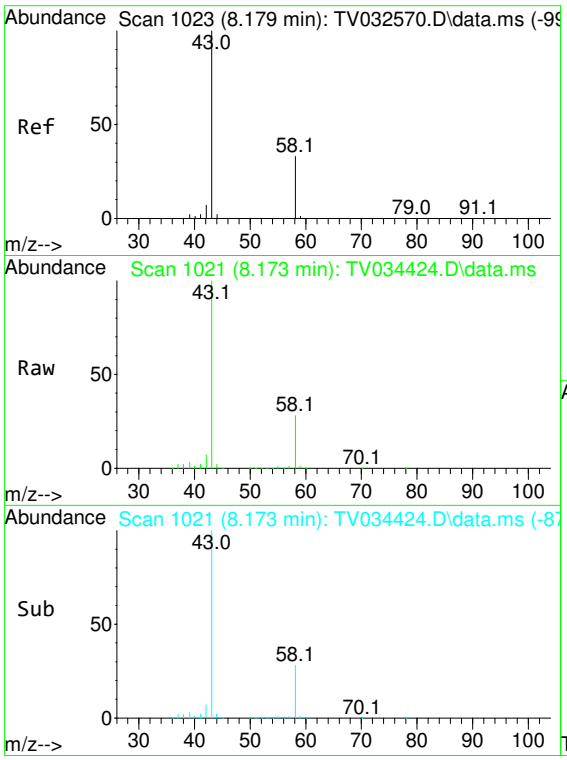


#1
Methane, bromochloro-
Concen: 10.00 ppbv
RT: 12.073 min Scan# 2234
Delta R.T. -0.038 min
Lab File: TV034424.D
Acq: 30 Dec 2025 08:38 pm

Tgt Ion: 49 Resp: 537582

Ion	Ratio	Lower	Upper
49	100		
130	39.0	44.5	92.3#
128	30.4	34.7	72.1#
51	30.3	21.5	44.6

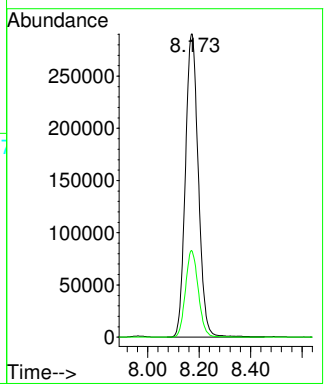


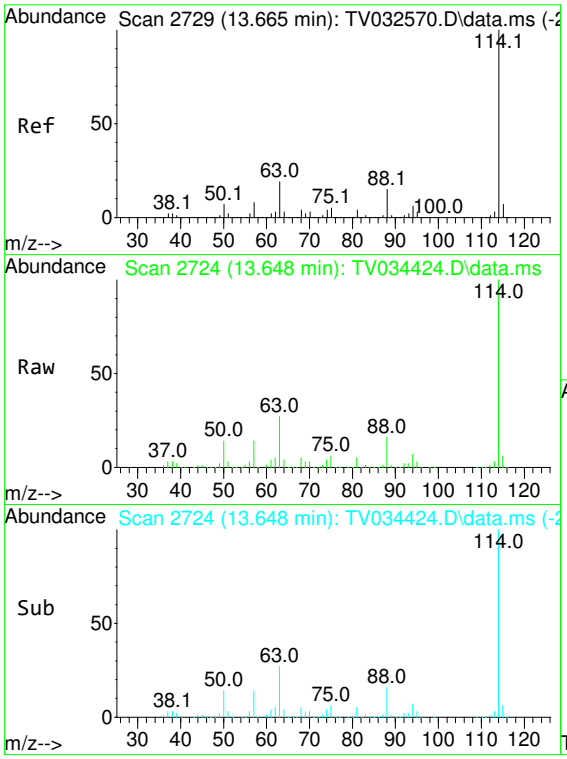


#15
Acetone
Concen: 17.29 ppbv
RT: 8.173 min Scan# 1021
Delta R.T. -0.028 min
Lab File: TV034424.D
Acq: 30 Dec 2025 08:38 pm

Tgt Ion: 43 Resp: 1014686

Ion	Ratio	Lower	Upper
43	100		
58	28.4	20.7	42.9

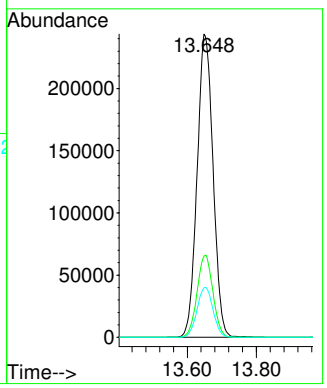


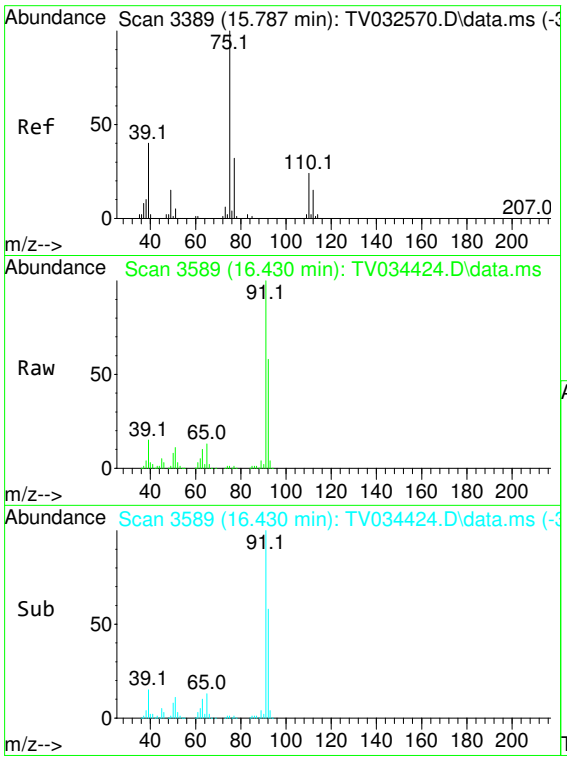


#39
1,4-Difluorobenzene
Concen: 10.00 ppbv
RT: 13.648 min Scan# 2724
Delta R.T. -0.041 min
Lab File: TV034424.D
Acq: 30 Dec 2025 08:38 pm

Tgt Ion:114 Resp: 779456

Ion	Ratio	Lower	Upper
114	100		
63	26.9	14.0	29.2
88	16.5	11.2	23.2

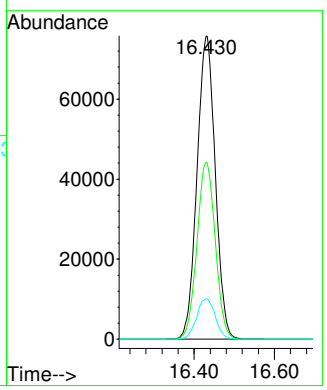


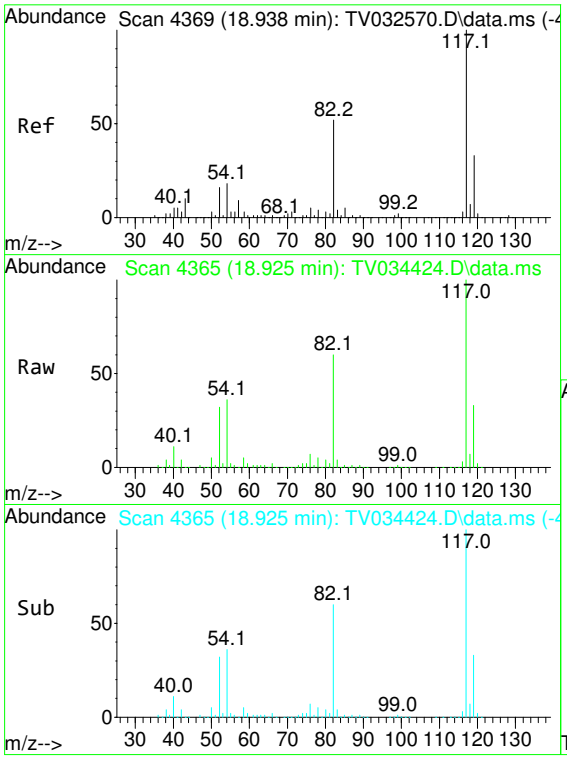


#47
Toluene
Concen: 2.78 ppbv
RT: 16.430 min Scan# 3589
Delta R.T. -0.038 min
Lab File: TV034424.D
Acq: 30 Dec 2025 08:38 pm

Tgt Ion: 91 Resp: 238995

Ion	Ratio	Lower	Upper
91	100		
92	58.7	39.0	81.0
65	13.7	7.7	16.1

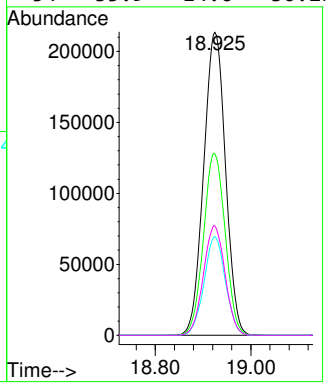


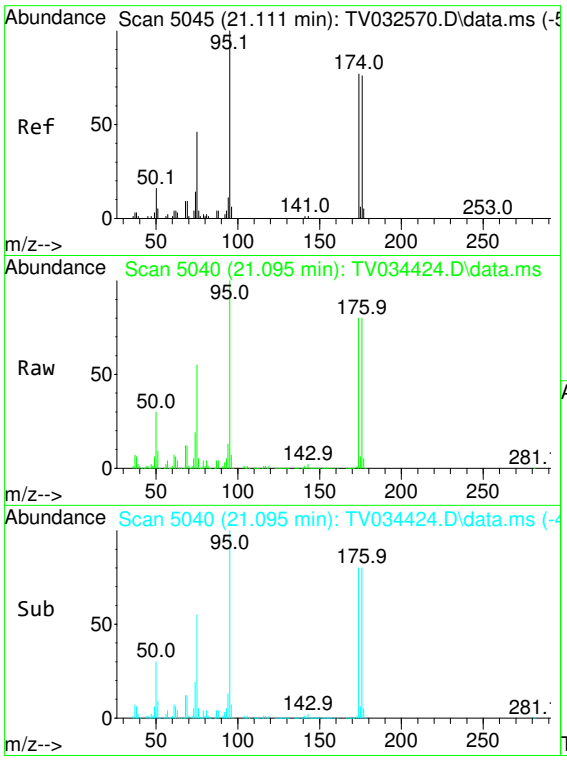


#55
d5-Chlorobenzene
Concen: 10.00 ppbv
RT: 18.925 min Scan# 4365
Delta R.T. -0.037 min
Lab File: TV034424.D
Acq: 30 Dec 2025 08:38 pm

Tgt Ion:117 Resp: 678045

Ion	Ratio	Lower	Upper
117	100		
82	59.7	38.7	80.5
119	32.0	20.3	42.3
54	35.9	14.6	30.2#

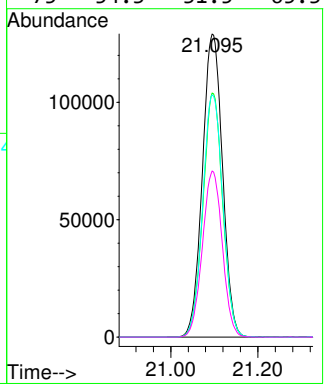




#66
p-Bromofluorobenzene
Concen: 8.29 ppbv
RT: 21.095 min Scan# 5040
Delta R.T. -0.040 min
Lab File: TV034424.D
Acq: 30 Dec 2025 08:38 pm

Tgt Ion: 95 Resp: 412770

Ion	Ratio	Lower	Upper
95	100		
174	79.4	50.0	103.8
176	80.4	48.2	100.2
75	54.3	31.5	65.3



Sample Information

Client Sample ID: AA01_121925 **Sample ID: 25L1231-03**

Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25L1231	170390601	Outdoor Ambient Air	December 19, 2025 4:33 pm	12/22/2025

Volatile Organic Compounds in Air by GC/MS

Sample Prepared by Method: EPA TO15 PREP

Results Reported to MDL

CAS No.	Parameter	Result	Flag	Units	RL	MDL	Dilution	Reference Method	Prepared	Analyzed	Analyst
540-84-1	* ^**2,2,4-Trimethylpentane**	2.4		ug/m³	0.20	0.20	0.841	EPA TO-15	12/23/2025 08:00	12/30/2025 04:51	YR
107-02-8	* ^Acrolein	ND		ug/m³	0.19	0.12	0.841	EPA TO-15	12/23/2025 08:00	12/30/2025 04:51	YR
91-20-3	* ^Naphthalene	ND		ug/m³	4.4	0.30	0.841	EPA TO-15	12/23/2025 08:00	12/30/2025 04:51	YR
630-20-6	* 1,1,1,2-Tetrachloroethane	ND		ug/m³	0.58	0.18	0.841	EPA TO-15	12/23/2025 08:00	12/30/2025 04:51	YR
71-55-6	1,1,1-Trichloroethane	ND		ug/m³	0.46	0.16	0.841	EPA TO-15	12/23/2025 08:00	12/30/2025 04:51	YR
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/m³	0.58	0.16	0.841	EPA TO-15	12/23/2025 08:00	12/30/2025 04:51	YR
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/m³	0.64	0.23	0.841	EPA TO-15	12/23/2025 08:00	12/30/2025 04:51	YR
79-00-5	1,1,2-Trichloroethane	ND		ug/m³	0.46	0.16	0.841	EPA TO-15	12/23/2025 08:00	12/30/2025 04:51	YR
75-34-3	1,1-Dichloroethane	ND		ug/m³	0.34	0.14	0.841	EPA TO-15	12/23/2025 08:00	12/30/2025 04:51	YR
75-35-4	1,1-Dichloroethylene	ND		ug/m³	0.17	0.14	0.841	EPA TO-15	12/23/2025 08:00	12/30/2025 04:51	YR
120-82-1	1,2,4-Trichlorobenzene	ND		ug/m³	31	0.24	0.841	EPA TO-15	12/23/2025 08:00	12/30/2025 04:51	YR
95-63-6	**1,2,4-Trimethylbenzene**	1.2		ug/m³	0.41	0.14	0.841	EPA TO-15	12/23/2025 08:00	12/30/2025 04:51	YR
106-93-4	1,2-Dibromoethane	ND		ug/m³	0.65	0.20	0.841	EPA TO-15	12/23/2025 08:00	12/30/2025 04:51	YR
95-50-1	1,2-Dichlorobenzene	ND		ug/m³	0.51	0.16	0.841	EPA TO-15	12/23/2025 08:00	12/30/2025 04:51	YR
107-06-2	1,2-Dichloroethane	ND		ug/m³	0.34	0.16	0.841	EPA TO-15	12/23/2025 08:00	12/30/2025 04:51	YR
78-87-5	1,2-Dichloropropane	ND		ug/m³	0.39	0.13	0.841	EPA TO-15	12/23/2025 08:00	12/30/2025 04:51	YR
76-14-2	1,2-Dichlorotetrafluoroethane	ND		ug/m³	0.59	0.30	0.841	EPA TO-15	12/23/2025 08:00	12/30/2025 04:51	YR
108-67-8	1,3,5-Trimethylbenzene	ND		ug/m³	0.41	0.063	0.841	EPA TO-15	12/23/2025 08:00	12/30/2025 04:51	YR
106-99-0	1,3-Butadiene	ND		ug/m³	0.56	0.058	0.841	EPA TO-15	12/23/2025 08:00	12/30/2025 04:51	YR
541-73-1	1,3-Dichlorobenzene	ND		ug/m³	0.51	0.14	0.841	EPA TO-15	12/23/2025 08:00	12/30/2025 04:51	YR
142-28-9	* 1,3-Dichloropropane	ND		ug/m³	0.39	0.12	0.841	EPA TO-15	12/23/2025 08:00	12/30/2025 04:51	YR
106-46-7	1,4-Dichlorobenzene	ND		ug/m³	0.51	0.12	0.841	EPA TO-15	12/23/2025 08:00	12/30/2025 04:51	YR
123-91-1	1,4-Dioxane	ND		ug/m³	1.5	0.32	0.841	EPA TO-15	12/23/2025 08:00	12/30/2025 04:51	YR
78-93-3	**2-Butanone**	1.5		ug/m³	12	0.42	0.841	EPA TO-15	12/23/2025 08:00	12/30/2025 04:51	YR
591-78-6	* 2-Hexanone	ND		ug/m³	0.69	0.19	0.841	EPA TO-15	12/23/2025 08:00	12/30/2025 04:51	YR
107-05-1	3-Chloropropene	ND		ug/m³	1.3	0.11	0.841	EPA TO-15	12/23/2025 08:00	12/30/2025 04:51	YR
108-10-1	4-Methyl-2-pentanone	ND		ug/m³	0.34	0.15	0.841	EPA TO-15	12/23/2025 08:00	12/30/2025 04:51	YR
67-64-1	**Acetone**	38		ug/m³	10	1.0	0.841	EPA TO-15	12/23/2025 08:00	12/30/2025 04:51	YR
107-13-1	Acrylonitrile	ND		ug/m³	9.1	1.7	0.841	EPA TO-15	12/23/2025 08:00	12/30/2025 04:51	YR
71-43-2	**Benzene**	2.1		ug/m³	0.27	0.097	0.841	EPA TO-15	12/23/2025 08:00	12/30/2025 04:51	YR
100-44-7	Benzyl chloride	ND		ug/m³	11	0.13	0.841	EPA TO-15	12/23/2025 08:00	12/30/2025 04:51	YR
75-27-4	Bromodichloromethane	ND		ug/m³	0.56	0.17	0.841	EPA TO-15	12/23/2025 08:00	12/30/2025 04:51	YR
75-25-2	Bromoform	ND		ug/m³	0.87	0.37	0.841	EPA TO-15	12/23/2025 08:00	12/30/2025 04:51	YR
74-83-9	Bromomethane	ND		ug/m³	0.33	0.14	0.841	EPA TO-15	12/23/2025 08:00	12/30/2025 04:51	YR
75-15-0	Carbon disulfide	ND		ug/m³	0.26	0.067	0.841	EPA TO-15	12/23/2025 08:00	12/30/2025 04:51	YR
56-23-5	**Carbon tetrachloride**	0.53		ug/m³	0.16	0.16	0.841	EPA TO-15	12/23/2025 08:00	12/30/2025 04:51	YR

Sample Information

Client Sample ID: AA01_121925 **Sample ID: 25L1231-03**

Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25L1231	170390601	Outdoor Ambient Air	December 19, 2025 4:33 pm	12/22/2025

Volatile Organic Compounds in Air by GC/MS

Sample Prepared by Method: EPA TO15 PREP

Results Reported to MDL

CAS No.	Parameter	Result	Flag	Units	RL	MDL	Dilution	Reference Method	Prepared	Analyzed	Analyst
108-90-7	Chlorobenzene	ND		ug/m³	0.39	0.15	0.841	EPA TO-15	12/23/2025 08:00	12/30/2025 04:51	YR
75-00-3	Chloroethane	ND		ug/m³	0.22	0.13	0.841	EPA TO-15	12/23/2025 08:00	12/30/2025 04:51	YR
67-66-3	Chloroform	ND		ug/m³	0.41	0.11	0.841	EPA TO-15	12/23/2025 08:00	12/30/2025 04:51	YR
74-87-3	**Chloromethane**	1.2		ug/m³	0.17	0.12	0.841	EPA TO-15	12/23/2025 08:00	12/30/2025 04:51	YR
156-59-2	cis-1,2-Dichloroethylene	ND		ug/m³	0.17	0.086	0.841	EPA TO-15	12/23/2025 08:00	12/30/2025 04:51	YR
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/m³	0.38	0.15	0.841	EPA TO-15	12/23/2025 08:00	12/30/2025 04:51	YR
110-82-7	**Cyclohexane**	0.87		ug/m³	0.29	0.20	0.841	EPA TO-15	12/23/2025 08:00	12/30/2025 04:51	YR
124-48-1	Dibromochloromethane	ND		ug/m³	0.72	0.29	0.841	EPA TO-15	12/23/2025 08:00	12/30/2025 04:51	YR
75-71-8	**Dichlorodifluoromethane**	2.3		ug/m³	0.42	0.23	0.841	EPA TO-15	12/23/2025 08:00	12/30/2025 04:51	YR
141-78-6	*** Ethyl acetate**	21		ug/m³	15	0.18	0.841	EPA TO-15	12/23/2025 08:00	12/30/2025 04:51	YR
100-41-4	**Ethyl Benzene**	1.2		ug/m³	0.37	0.12	0.841	EPA TO-15	12/23/2025 08:00	12/30/2025 04:51	YR
87-68-3	Hexachlorobutadiene	ND		ug/m³	0.90	0.34	0.841	EPA TO-15	12/23/2025 08:00	12/30/2025 04:51	YR
67-63-0	**Isopropanol**	3.8		ug/m³	1.2	0.050	0.841	EPA TO-15	12/23/2025 08:00	12/30/2025 04:51	YR
98-82-8	Isopropylbenzene	ND		ug/m³	0.41	0.074	0.841	EPA TO-15	12/23/2025 08:00	12/30/2025 04:51	YR
80-62-6	Methyl Methacrylate	ND		ug/m³	0.34	0.21	0.841	EPA TO-15	12/23/2025 08:00	12/30/2025 04:51	YR
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/m³	0.30	0.093	0.841	EPA TO-15	12/23/2025 08:00	12/30/2025 04:51	YR
75-09-2	**Methylene chloride**	0.50		ug/m³	1.8	0.098	0.841	EPA TO-15	12/23/2025 08:00	12/30/2025 04:51	YR
104-51-8	* n-Butylbenzene	ND		ug/m³	0.46	0.14	0.841	EPA TO-15	12/23/2025 08:00	12/30/2025 04:51	YR
142-82-5	n-Heptane	ND		ug/m³	0.34	0.13	0.841	EPA TO-15	12/23/2025 08:00	12/30/2025 04:51	YR
110-54-3	**n-Hexane**	2.4		ug/m³	0.30	0.093	0.841	EPA TO-15	12/23/2025 08:00	12/30/2025 04:51	YR
103-65-1	* n-Propylbenzene	ND		ug/m³	0.41	0.11	0.841	EPA TO-15	12/23/2025 08:00	12/30/2025 04:51	YR
95-47-6	**o-Xylene**	1.3		ug/m³	0.37	0.13	0.841	EPA TO-15	12/23/2025 08:00	12/30/2025 04:51	YR
179601-23-1	**p- & m- Xylenes**	3.4		ug/m³	0.73	0.19	0.841	EPA TO-15	12/23/2025 08:00	12/30/2025 04:51	YR
622-96-8	* p-Ethyltoluene	ND		ug/m³	0.41	0.14	0.841	EPA TO-15	12/23/2025 08:00	12/30/2025 04:51	YR
99-87-6	* p-Isopropyltoluene	ND		ug/m³	0.46	0.084	0.841	EPA TO-15	12/23/2025 08:00	12/30/2025 04:51	YR
115-07-1	*** Propylene**	2.0		ug/m³	0.14	0.083	0.841	EPA TO-15	12/23/2025 08:00	12/30/2025 04:51	YR
135-98-8	* sec-Butylbenzene	ND		ug/m³	0.46	0.12	0.841	EPA TO-15	12/23/2025 08:00	12/30/2025 04:51	YR
100-42-5	Styrene	ND		ug/m³	0.36	0.11	0.841	EPA TO-15	12/23/2025 08:00	12/30/2025 04:51	YR
98-06-6	* tert-Butylbenzene	ND		ug/m³	0.46	0.18	0.841	EPA TO-15	12/23/2025 08:00	12/30/2025 04:51	YR
127-18-4	Tetrachloroethylene	ND		ug/m³	0.57	0.14	0.841	EPA TO-15	12/23/2025 08:00	12/30/2025 04:51	YR
109-99-9	* Tetrahydrofuran	ND		ug/m³	0.50	0.083	0.841	EPA TO-15	12/23/2025 08:00	12/30/2025 04:51	YR
108-88-3	**Toluene**	13		ug/m³	0.32	0.13	0.841	EPA TO-15	12/23/2025 08:00	12/30/2025 04:51	YR
156-60-5	trans-1,2-Dichloroethylene	ND		ug/m³	0.33	0.080	0.841	EPA TO-15	12/23/2025 08:00	12/30/2025 04:51	YR
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/m³	0.38	0.15	0.841	EPA TO-15	12/23/2025 08:00	12/30/2025 04:51	YR
79-01-6	Trichloroethylene	ND		ug/m³	0.14	0.14	0.841	EPA TO-15	12/23/2025 08:00	12/30/2025 04:51	YR
75-69-4	**Trichlorofluoromethane (Freon 11)**	1.4		ug/m³	0.47	0.17	0.841	EPA TO-15	12/23/2025 08:00	12/30/2025 04:51	YR

Sample Information

Client Sample ID: AA01_121925 **Sample ID: 25L1231-03**

Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25L1231	170390601	Outdoor Ambient Air	December 19, 2025 4:33 pm	12/22/2025

Volatile Organic Compounds in Air by GC/MS

Sample Prepared by Method: EPA TO15 PREP

Results Reported to MDL

CAS No.	Parameter	Result	Flag	Units	RL	MDL	Dilution	Reference Method	Prepared	Analyzed	Analyst
108-05-4	Vinyl acetate	ND		ug/m³	0.30	0.15	0.841	EPA TO-15	12/23/2025 08:00	12/30/2025 04:51	YR
593-60-2	Vinyl bromide	ND		ug/m³	0.37	0.13	0.841	EPA TO-15	12/23/2025 08:00	12/30/2025 04:51	YR
75-01-4	Vinyl Chloride	ND		ug/m³	0.11	0.086	0.841	EPA TO-15	12/23/2025 08:00	12/30/2025 04:51	YR
1330-20-7	**Xylenes, Total**	4.7		ug/m³	1.1	0.30	0.841	EPA TO-15	12/23/2025 08:00	12/30/2025 04:51	YR

Quantitation Report (QT Reviewed)

Data Path : C:\MassHunter\GCMS\1\data\2025\12-DEC\122925\
Data File : TV034404.D
Acq On : 30 Dec 2025 04:51 am
Operator : YR
Sample : 25L1231-03
Misc : QBTO3091525A .533X
ALS Vial : 12 Sample Multiplier: 0.841
InstName : TO15_AIR3

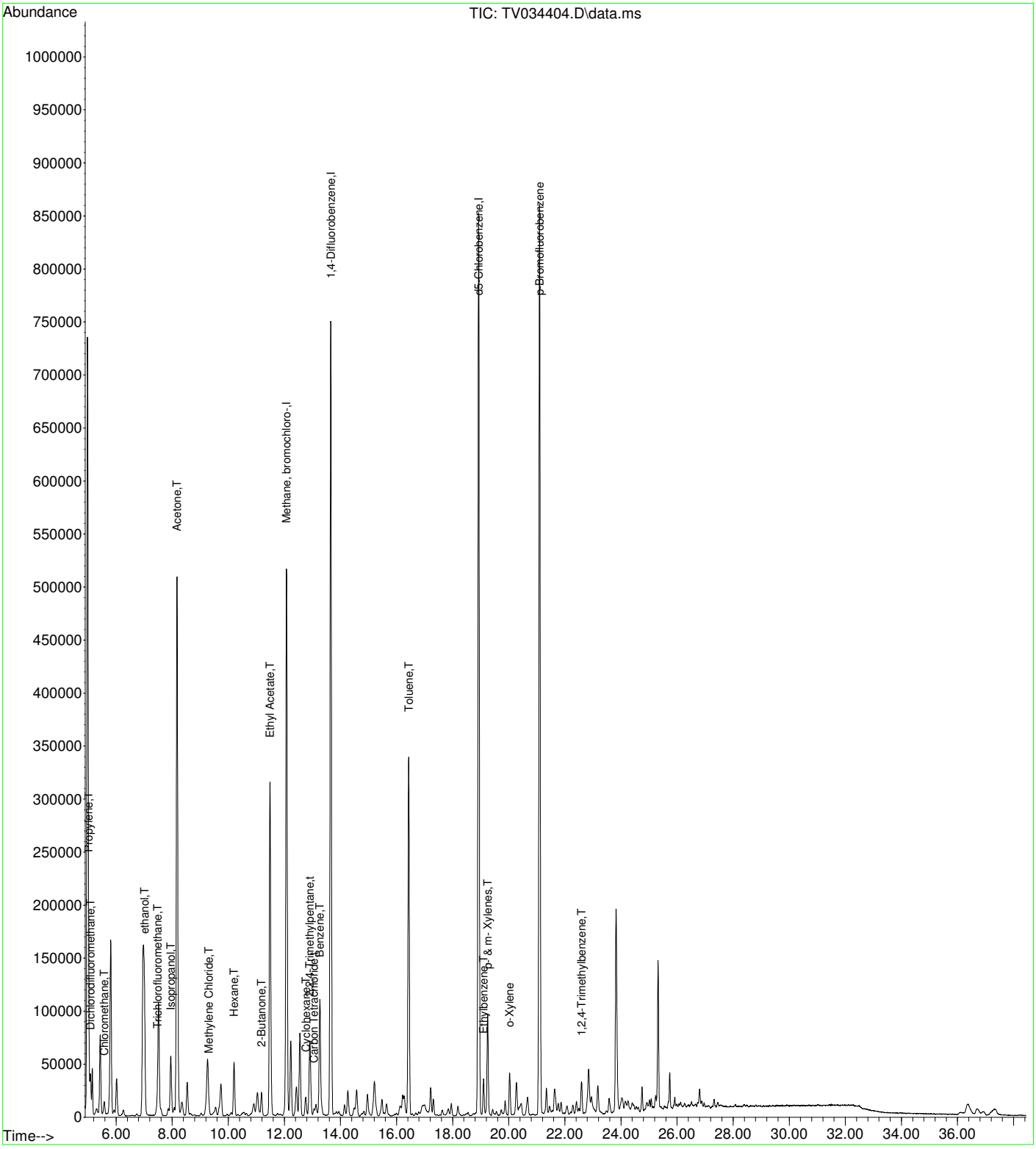
Quant Time: Dec 30 08:20:39 2025
Quant Method : C:\MassHunter\GCMS\1\methods\AIR-3-DEC052025.M
Quant Title : TO15 VOC Analysis
QLast Update : Mon Dec 08 14:43:00 2025
Response via : Initial Calibration

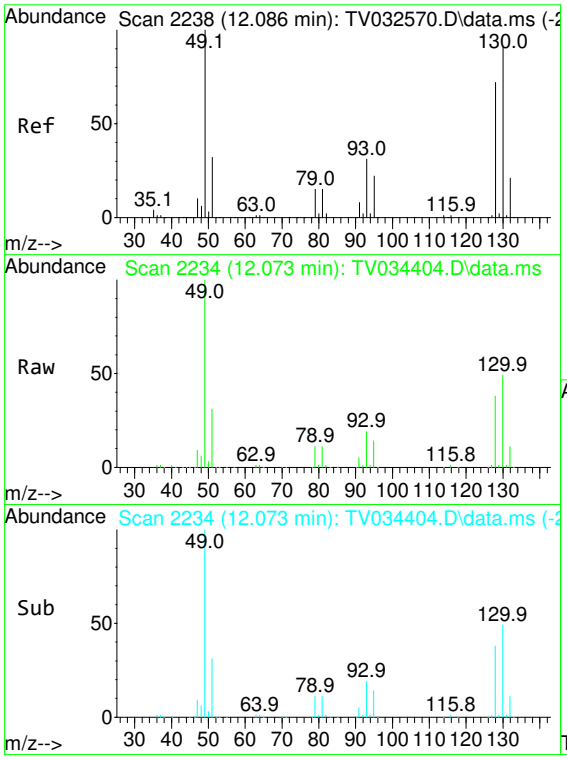
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Methane, bromochloro-	12.073	49	537027	10.00	ppbv	-0.04
39) 1,4-Difluorobenzene	13.655	114	939050	10.00	ppbv	-0.03
55) d5-Chlorobenzene	18.925	117	802538	10.00	ppbv	#-0.04
Target Compounds						Qvalue
2) Propylene	5.019	42	30776	1.40	ppbv	76
3) Dichlorodifluoromethane	5.089	85	38187	0.55	ppbv #	97
5) Chloromethane	5.575	50	23585	0.70	ppbv	99
10) ethanol	7.009	45	217378	11.73	ppbv	89
12) Trichlorofluoromethane	7.475	101	20671	0.30	ppbv	99
13) Isopropanol	7.948	45	135496	1.83	ppbv	100
15) Acetone	8.170	43	1113155	18.99	ppbv	97
19) Methylene Chloride	9.308	49	7948	0.17	ppbv #	74
24) Hexane	10.205	57	45340	0.82	ppbv	98
27) 2-Butanone	11.182	43	49451	0.61	ppbv	86
28) Ethyl Acetate	11.485	43	643610	6.91	ppbv #	95
33) Cyclohexane	12.768	56	18314	0.30	ppbv	81
34) 2,2,4-Trimethylpentane	12.903	57	109818	0.62	ppbv #	83
35) Carbon Tetrachloride	13.054	117	6289	0.10	ppbv #	58
37) Benzene	13.259	78	58806	0.79	ppbv #	100
47) Toluene	16.430	91	411588	3.98	ppbv	99
58) Ethylbenzene	19.099	91	43946	0.33	ppbv	96
59) p- & m- Xylenes	19.246	91	94991	0.92	ppbv	99
60) o-Xylene	20.028	91	38507	0.36	ppbv	100
66) p-Bromofluorobenzene	21.098	95	531386	9.01	ppbv	92
70) 1,2,4-Trimethylbenzene	22.594	105	35768	0.29	ppbv #	99

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

Data Path : C:\MassHunter\GCMS\1\data\2025\12-DEC\122925\
Data File : TV034404.D
Acq On : 30 Dec 2025 04:51 am
Operator : YR
Sample : 25L1231-03
Misc : QBTO3091525A .533X
ALS Vial : 12 Sample Multiplier: 0.841
InstName : TO15_AIR3

Quant Time: Dec 30 08:20:39 2025
Quant Method : C:\MassHunter\GCMS\1\methods\AIR-3-DEC052025.M
Quant Title : TO15 VOC Analysis
QLast Update : Mon Dec 08 14:43:00 2025
Response via : Initial Calibration

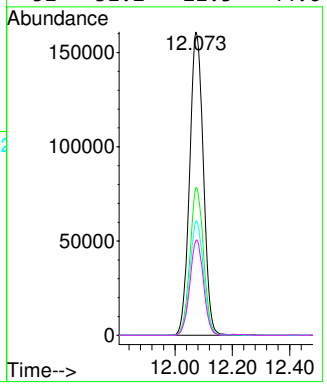


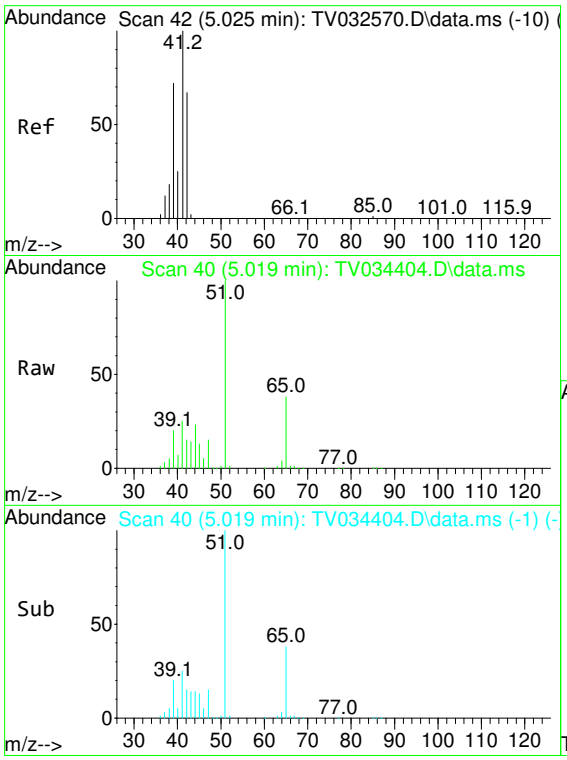


#1
Methane, bromochloro-
Concen: 10.00 ppbv
RT: 12.073 min Scan# 2234
Delta R.T. -0.038 min
Lab File: TV034404.D
Acq: 30 Dec 2025 04:51 am

Tgt Ion: 49 Resp: 537027

Ion	Ratio	Lower	Upper
49	100		
130	48.2	44.5	92.3
128	37.3	34.7	72.1
51	31.2	21.5	44.6

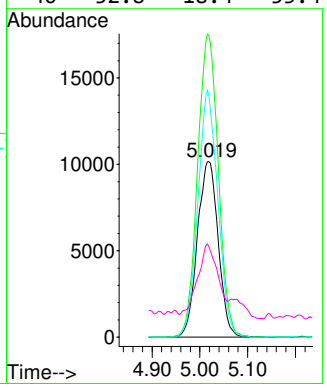


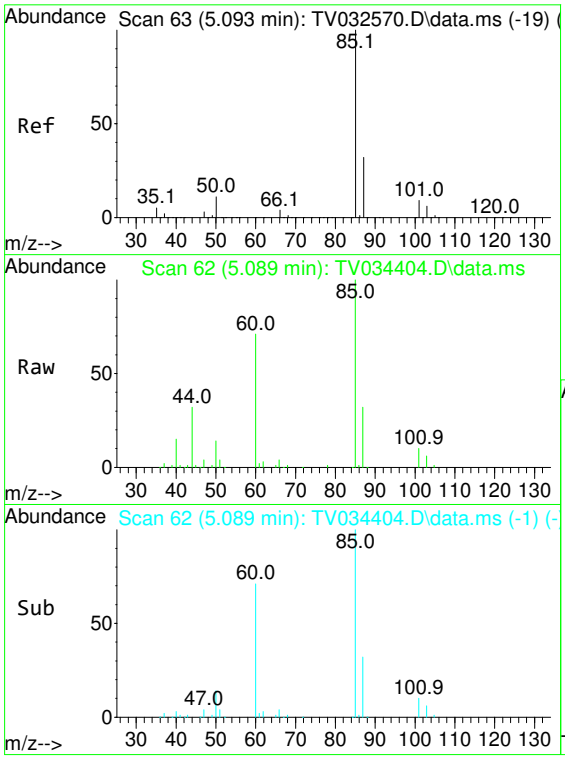


#2
Propylene
Concen: 1.40 ppbv
RT: 5.019 min Scan# 40
Delta R.T. -0.022 min
Lab File: TV034404.D
Acq: 30 Dec 2025 04:51 am

Tgt Ion: 42 Resp: 30776

Ion	Ratio	Lower	Upper
42	100		
41	171.5	88.9	207.5
39	135.1	52.2	156.6
40	52.8	18.4	55.4

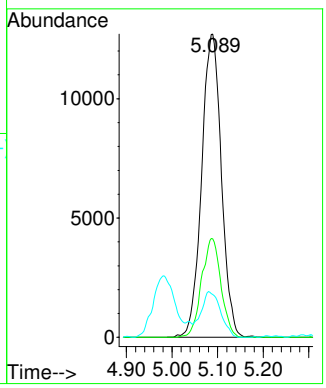


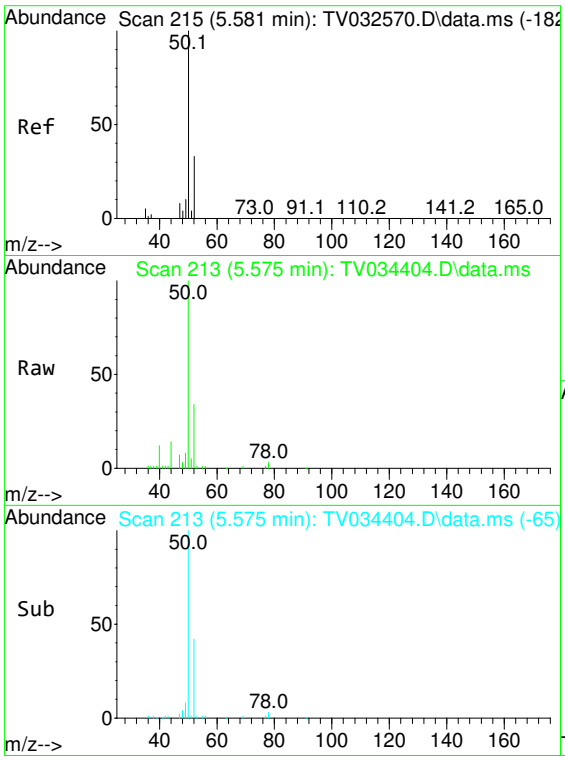


#3
Dichlorodifluoromethane
Concen: 0.55 ppbv
RT: 5.089 min Scan# 62
Delta R.T. -0.023 min
Lab File: TV034404.D
Acq: 30 Dec 2025 04:51 am

Tgt Ion: 85 Resp: 38187

Ion	Ratio	Lower	Upper
85	100		
87	32.0	21.0	43.6
50	14.9	6.8	14.2#

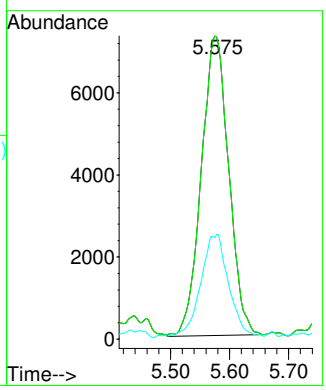


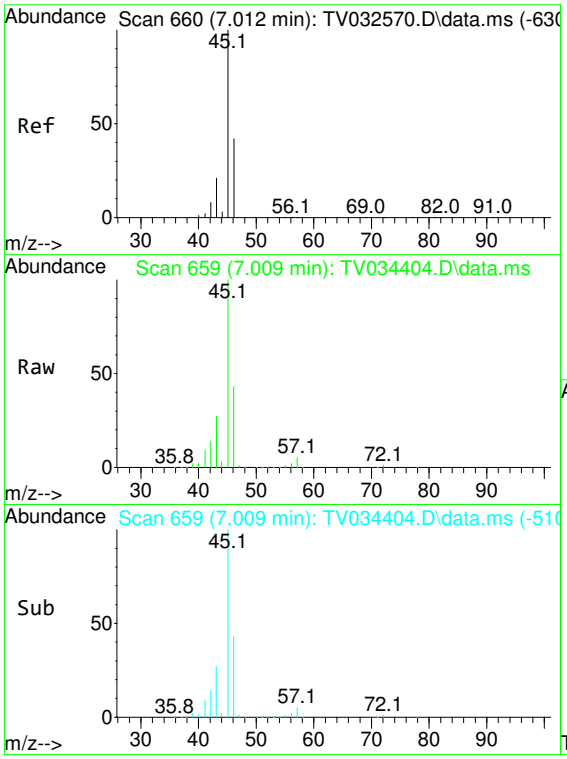


#5
Chloromethane
Concen: 0.70 ppbv
RT: 5.575 min Scan# 213
Delta R.T. -0.024 min
Lab File: TV034404.D
Acq: 30 Dec 2025 04:51 am

Tgt Ion: 50 Resp: 23585

Ion	Ratio	Lower	Upper
50	100		
50	100.0	65.0	135.0
52	34.3	16.5	49.5

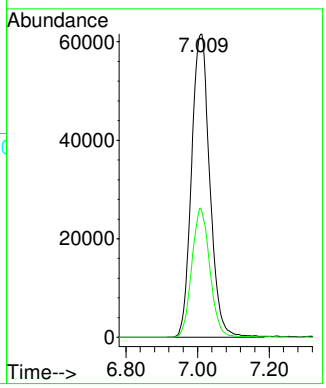


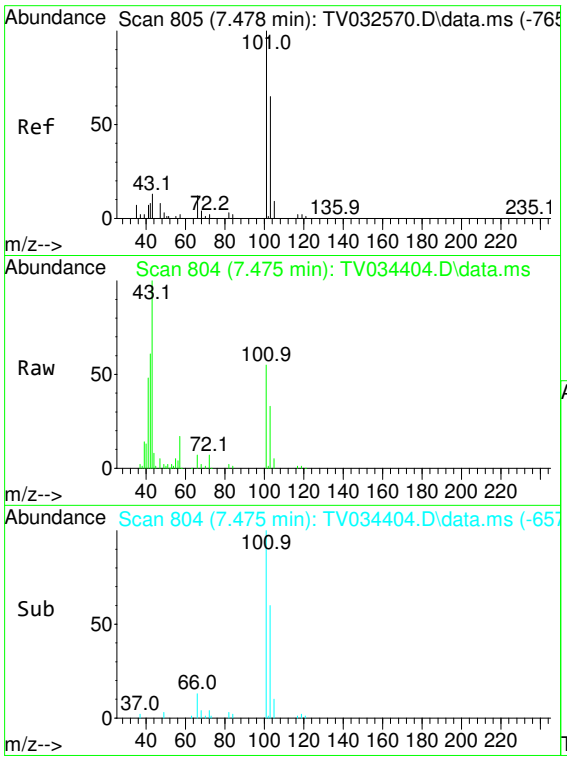


#10
ethanol
Concen: 11.73 ppbv
RT: 7.009 min Scan# 659
Delta R.T. -0.022 min
Lab File: TV034404.D
Acq: 30 Dec 2025 04:51 am

Tgt Ion: 45 Resp: 217378

Ion	Ratio	Lower	Upper
45	100		
46	42.2	40.0	60.0

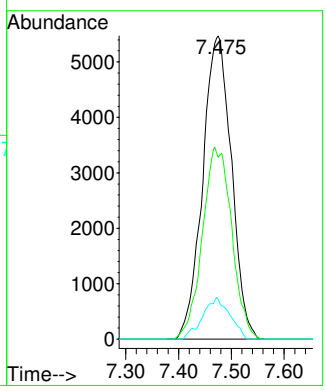


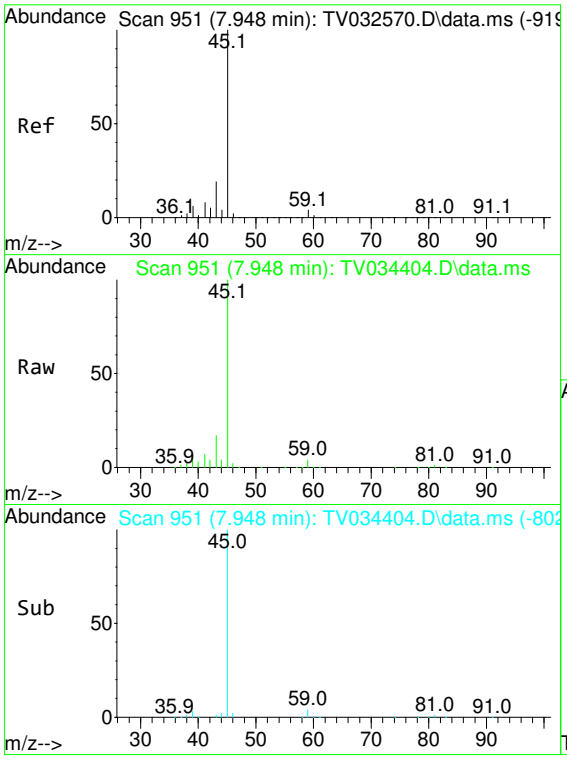


#12
Trichlorofluoromethane
Concen: 0.30 ppbv
RT: 7.475 min Scan# 804
Delta R.T. -0.027 min
Lab File: TV034404.D
Acq: 30 Dec 2025 04:51 am

Tgt Ion:101 Resp: 20671

Ion	Ratio	Lower	Upper
101	100		
103	64.5	42.4	88.0
66	13.0	7.9	16.5

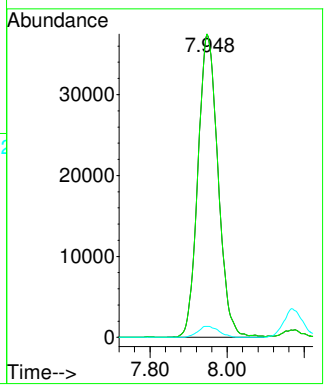


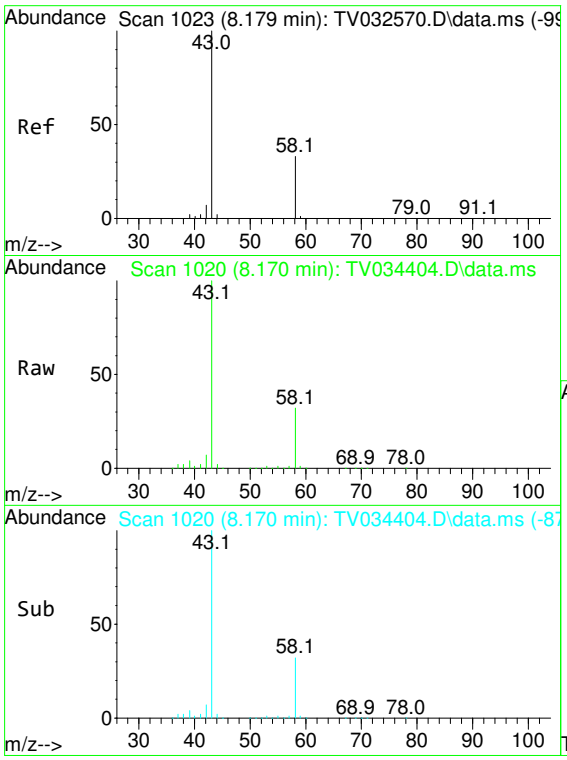


#13
Isopropanol
Concen: 1.83 ppbv
RT: 7.948 min Scan# 951
Delta R.T. -0.021 min
Lab File: TV034404.D
Acq: 30 Dec 2025 04:51 am

Tgt Ion: 45 Resp: 135496

Ion	Ratio	Lower	Upper
45	100		
45	100.0	65.0	135.0
59	3.8	0.0	8.4

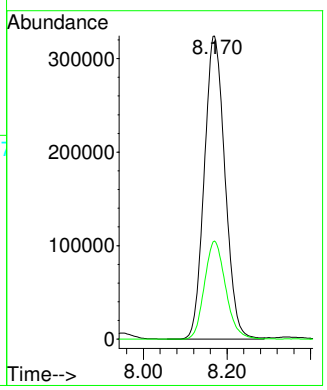


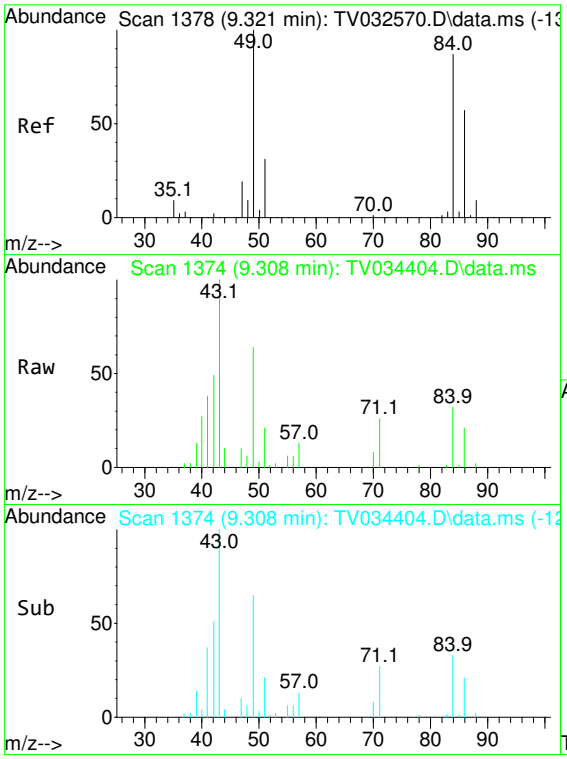


#15
Acetone
Concen: 18.99 ppbv
RT: 8.170 min Scan# 1020
Delta R.T. -0.031 min
Lab File: TV034404.D
Acq: 30 Dec 2025 04:51 am

Tgt Ion: 43 Resp: 1113155

Ion	Ratio	Lower	Upper
43	100		
58	33.3	20.7	42.9

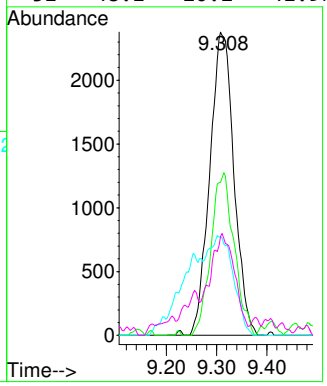


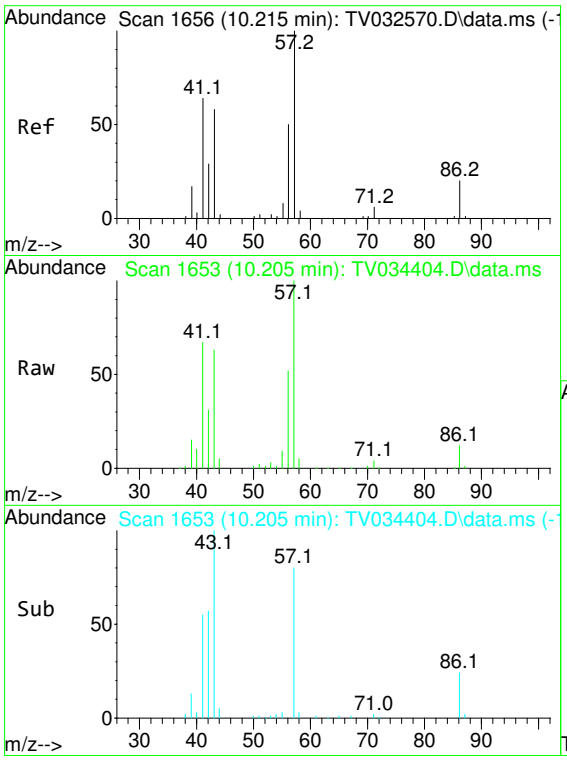


#19
Methylene Chloride
Concen: 0.17 ppbv
RT: 9.308 min Scan# 1374
Delta R.T. -0.037 min
Lab File: TV034404.D
Acq: 30 Dec 2025 04:51 am

Tgt Ion: 49 Resp: 7948

Ion	Ratio	Lower	Upper
49	100		
84	51.7	50.1	104.0
86	62.5	32.2	66.8
51	48.1	20.2	41.9#

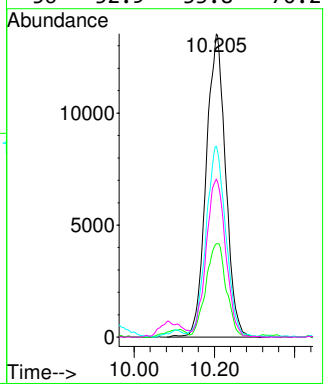


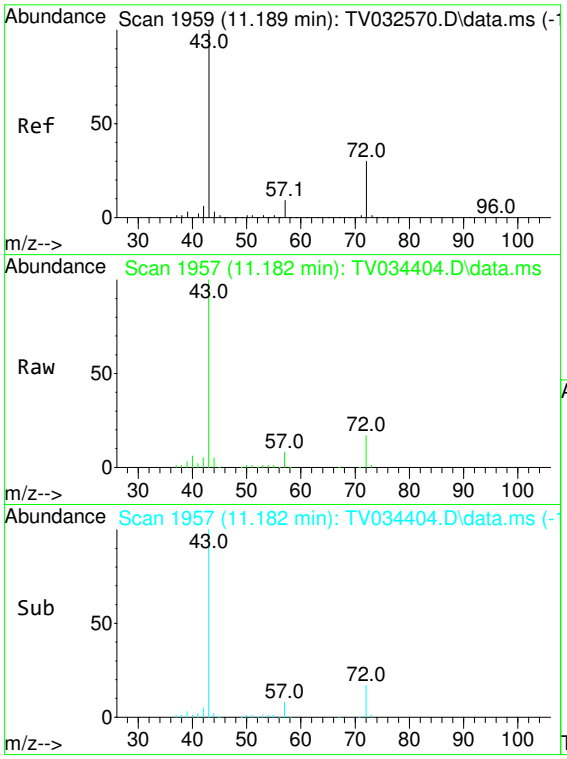


#24
Hexane
Concen: 0.82 ppbv
RT: 10.205 min Scan# 1653
Delta R.T. -0.029 min
Lab File: TV034404.D
Acq: 30 Dec 2025 04:51 am

Tgt Ion: 57 Resp: 45340

Ion	Ratio	Lower	Upper
57	100		
42	32.3	22.2	46.0
43	64.7	42.9	89.1
56	52.9	33.8	70.2

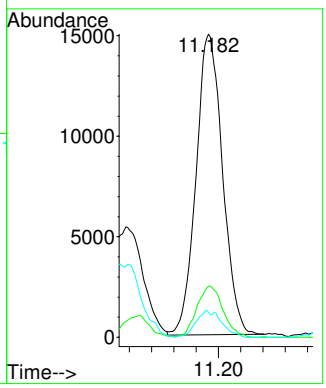


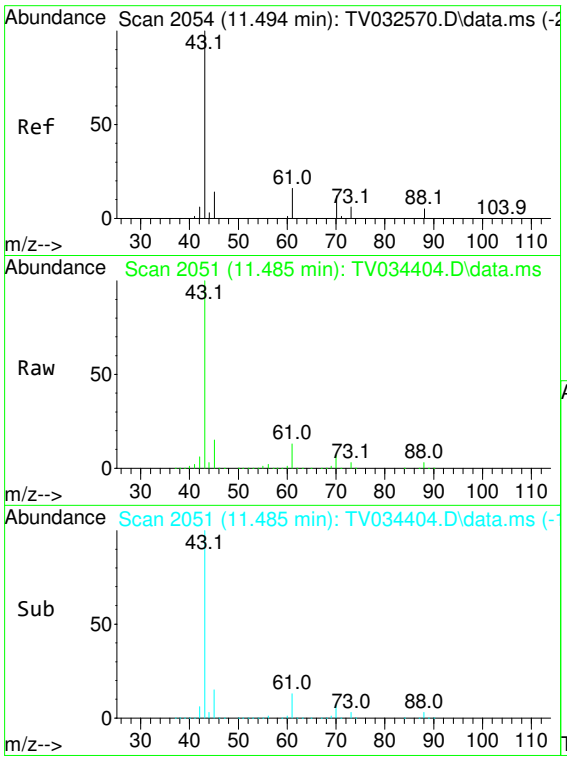


#27
2-Butanone
Concen: 0.61 ppbv
RT: 11.182 min Scan# 1957
Delta R.T. -0.030 min
Lab File: TV034404.D
Acq: 30 Dec 2025 04:51 am

Tgt Ion: 43 Resp: 49451

Ion	Ratio	Lower	Upper
43	100		
72	16.8	16.4	34.2
57	8.7	5.0	10.4

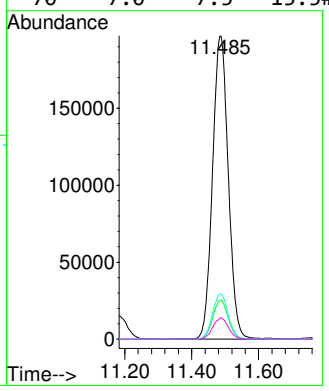


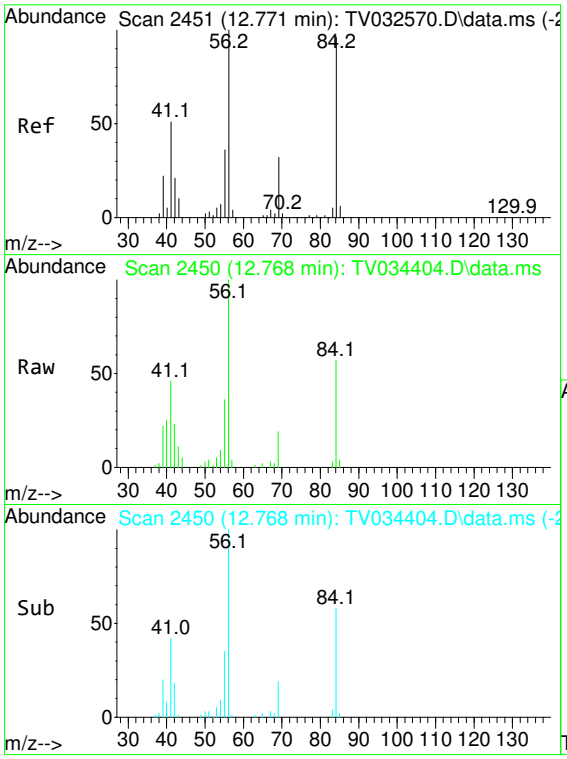


#28
Ethyl Acetate
Concen: 6.91 ppbv
RT: 11.485 min Scan# 2051
Delta R.T. -0.034 min
Lab File: TV034404.D
Acq: 30 Dec 2025 04:51 am

Tgt Ion: 43 Resp: 643610

Ion	Ratio	Lower	Upper
43	100		
61	12.8	9.2	19.2
45	14.9	9.4	19.6
70	7.0	7.5	15.5#

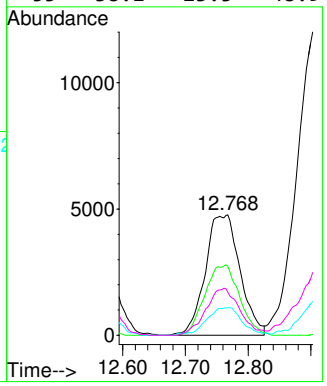


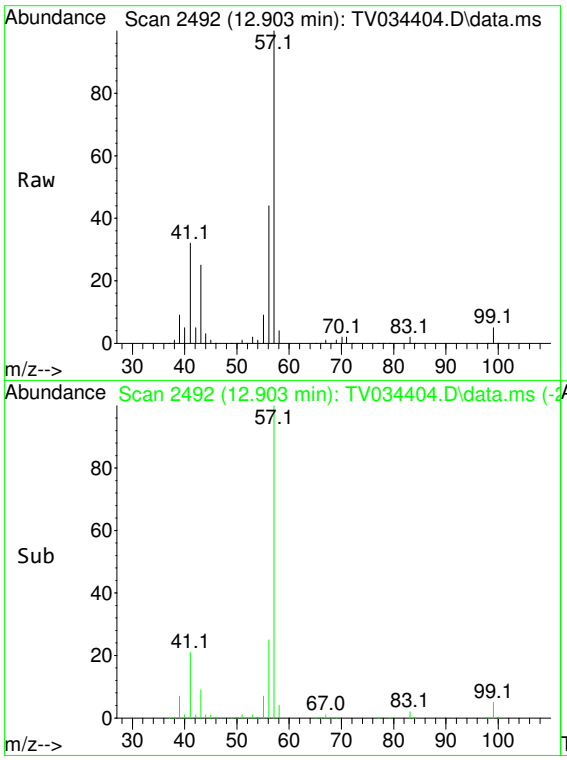


#33
Cyclohexane
Concen: 0.30 ppbv
RT: 12.768 min Scan# 2450
Delta R.T. -0.026 min
Lab File: TV034404.D
Acq: 30 Dec 2025 04:51 am

Tgt Ion: 56 Resp: 18314

Ion	Ratio	Lower	Upper
56	100		
84	58.2	56.4	117.0
42	23.5	15.3	31.7
55	38.1	23.5	48.9

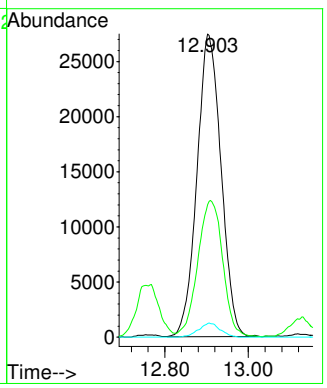


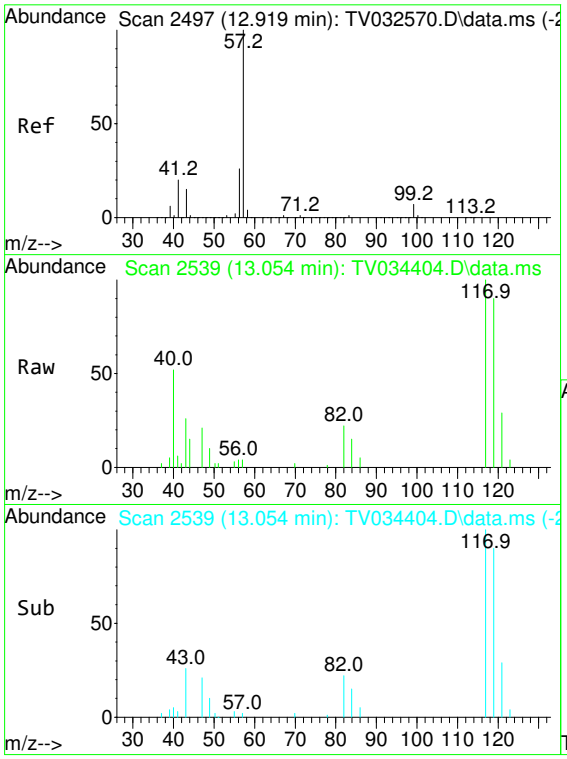


#34
2,2,4-Trimethylpentane
Concen: 0.62 ppbv
RT: 12.903 min Scan# 2492
Delta R.T. -0.035 min
Lab File: TV034404.D
Acq: 30 Dec 2025 04:51 am

Tgt Ion: 57 Resp: 109818

Ion	Ratio	Lower	Upper
57	100		
56	46.4	24.5	45.5#
99	4.2	3.5	6.5

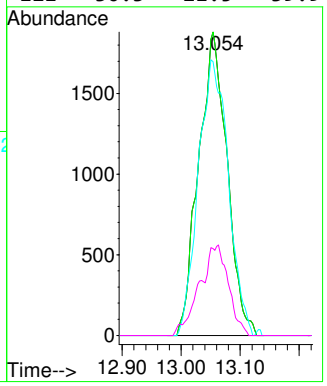


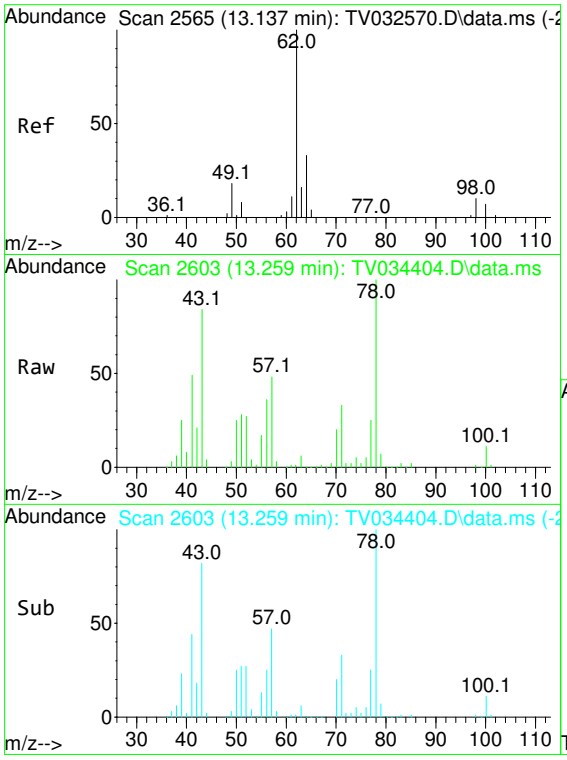


#35
Carbon Tetrachloride
Concen: 0.10 ppbv
RT: 13.054 min Scan# 2539
Delta R.T. -0.034 min
Lab File: TV034404.D
Acq: 30 Dec 2025 04:51 am

Tgt Ion:117 Resp: 6289

Ion	Ratio	Lower	Upper
117	100		
117	100.0	80.0	120.0
119	0.0	76.5	114.7#
121	30.3	21.5	39.9

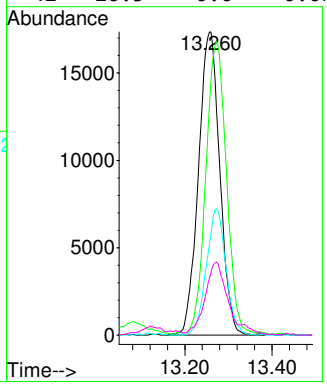


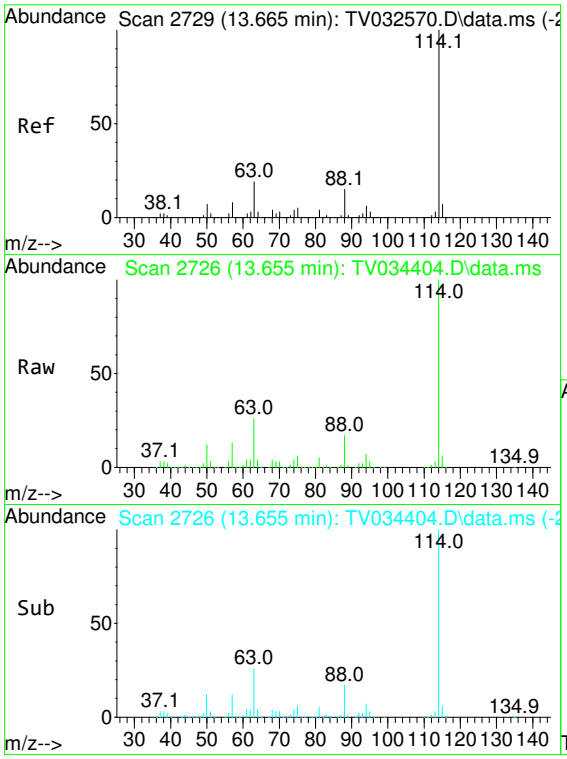


#37
Benzene
Concen: 0.79 ppbv
RT: 13.259 min Scan# 2603
Delta R.T. -0.035 min
Lab File: TV034404.D
Acq: 30 Dec 2025 04:51 am

Tgt Ion: 78 Resp: 58806

Ion	Ratio	Lower	Upper
78	100		
43	93.3	0.0	0.0#
71	38.6	0.0	0.0#
42	26.5	0.0	0.0#

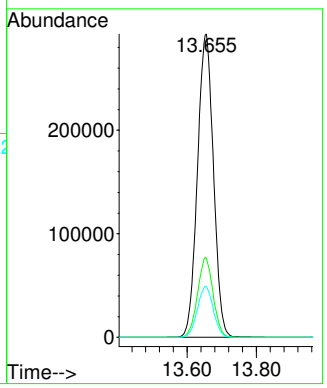


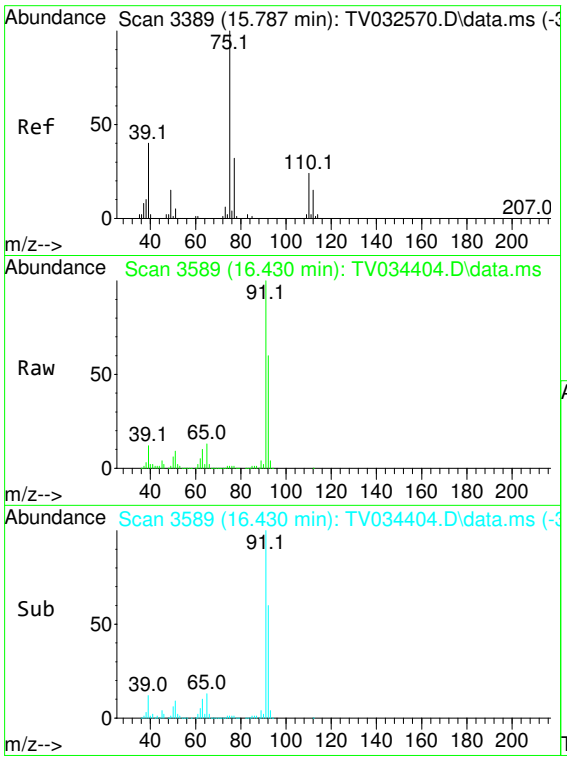


#39
1,4-Difluorobenzene
Concen: 10.00 ppbv
RT: 13.655 min Scan# 2726
Delta R.T. -0.034 min
Lab File: TV034404.D
Acq: 30 Dec 2025 04:51 am

Tgt Ion:114 Resp: 939050

Ion	Ratio	Lower	Upper
114	100		
63	25.6	14.0	29.2
88	16.7	11.2	23.2

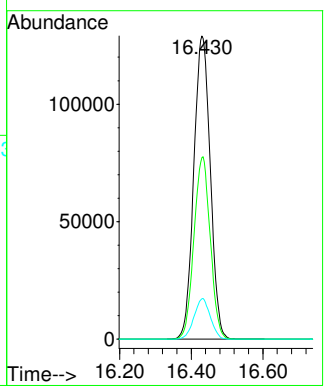


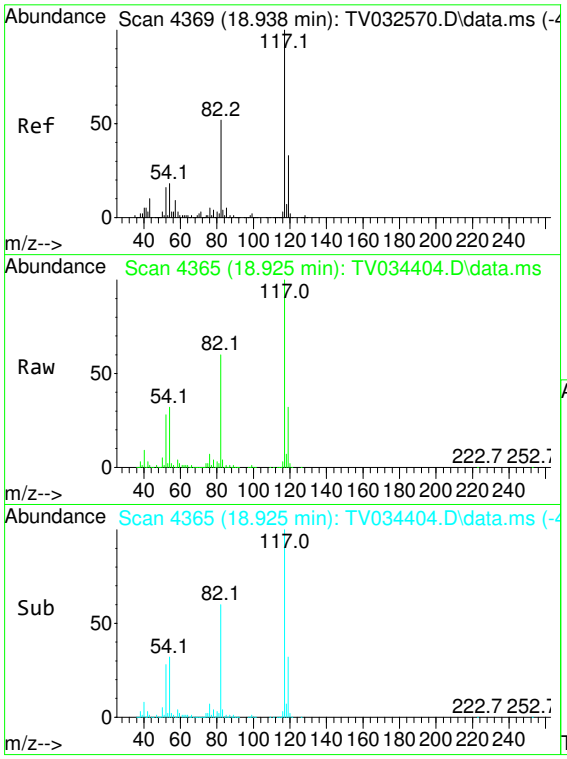


#47
Toluene
Concen: 3.98 ppbv
RT: 16.430 min Scan# 3589
Delta R.T. -0.038 min
Lab File: TV034404.D
Acq: 30 Dec 2025 04:51 am

Tgt Ion: 91 Resp: 411588

Ion	Ratio	Lower	Upper
91	100		
92	59.5	39.0	81.0
65	13.3	7.7	16.1

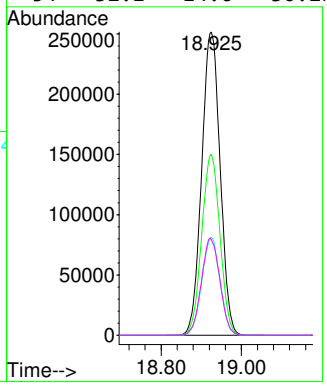


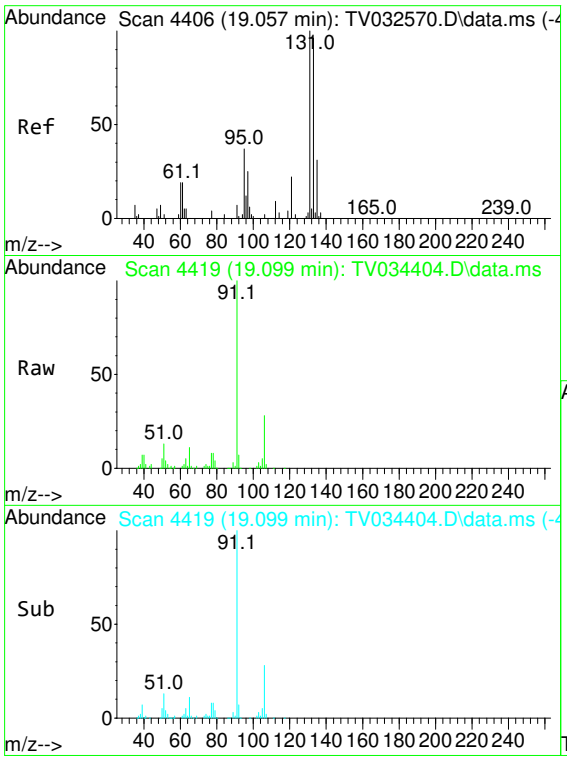


#55
d5-Chlorobenzene
Concen: 10.00 ppbv
RT: 18.925 min Scan# 4365
Delta R.T. -0.037 min
Lab File: TV034404.D
Acq: 30 Dec 2025 04:51 am

Tgt Ion:117 Resp: 802538

Ion	Ratio	Lower	Upper
117	100		
82	59.0	38.7	80.5
119	31.9	20.3	42.3
54	32.1	14.6	30.2#

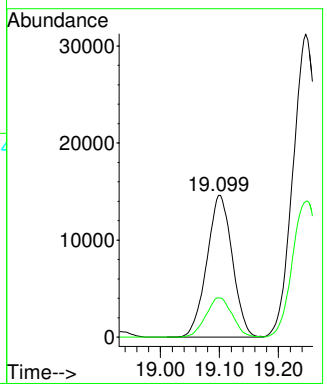


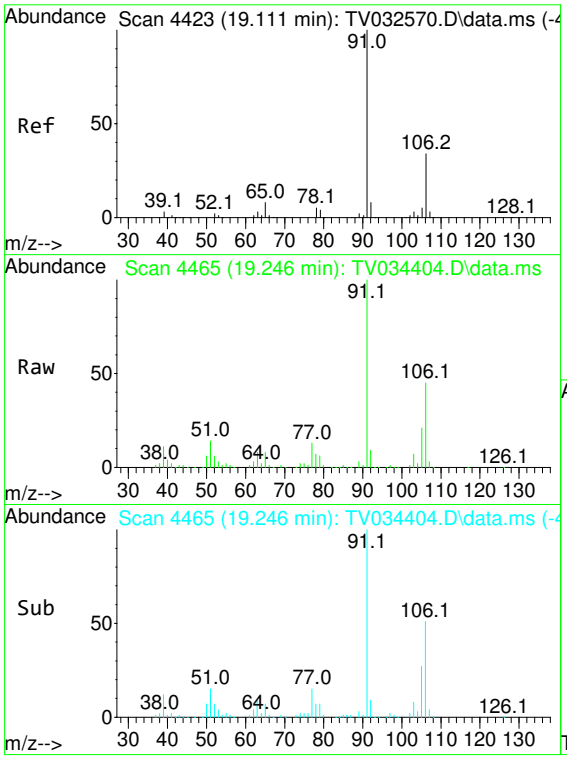


#58
Ethylbenzene
Concen: 0.33 ppbv
RT: 19.099 min Scan# 4419
Delta R.T. -0.037 min
Lab File: TV034404.D
Acq: 30 Dec 2025 04:51 am

Tgt Ion: 91 Resp: 43946

Ion	Ratio	Lower	Upper
91	100		
106	28.8	20.3	42.3

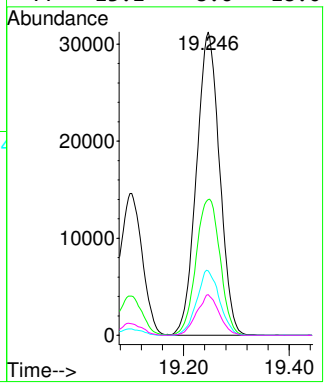


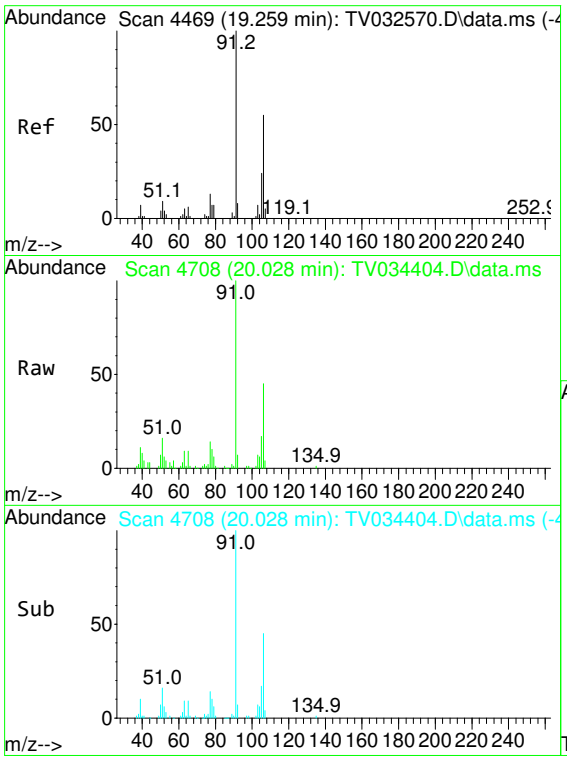


#59
p- & m- Xylenes
Concen: 0.92 ppbv
RT: 19.246 min Scan# 4465
Delta R.T. -0.036 min
Lab File: TV034404.D
Acq: 30 Dec 2025 04:51 am

Tgt Ion: 91 Resp: 94991

Ion	Ratio	Lower	Upper
91	100		
106	46.8	31.0	64.4
105	21.1	13.4	27.8
77	13.1	8.6	18.0

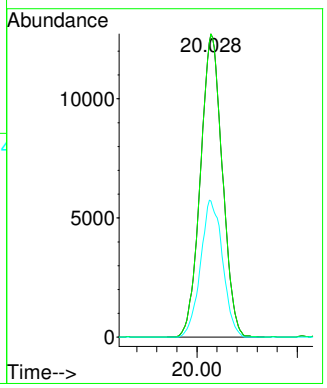


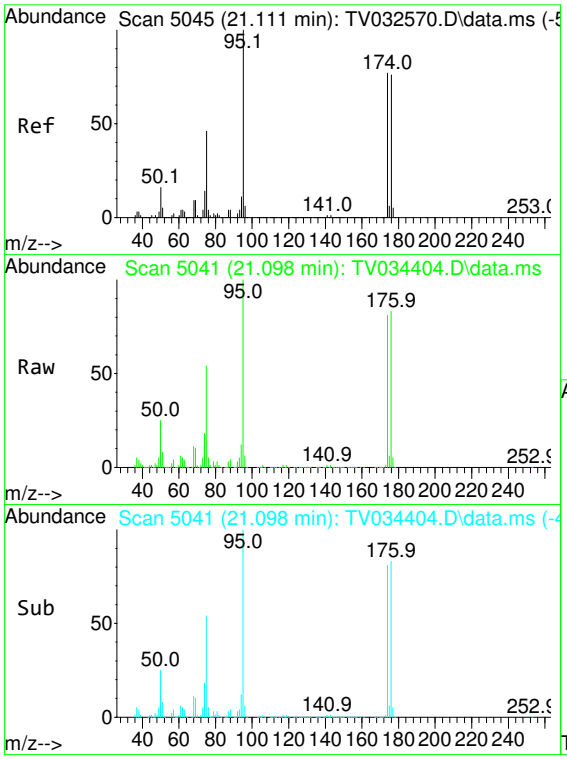


#60
o-Xylene
Concen: 0.36 ppbv
RT: 20.028 min Scan# 4708
Delta R.T. -0.038 min
Lab File: TV034404.D
Acq: 30 Dec 2025 04:51 am

Tgt Ion: 91 Resp: 38507

Ion	Ratio	Lower	Upper
91	100		
91	100.0	80.0	120.0
106	45.6	36.9	55.3

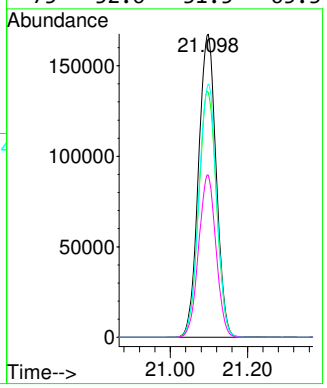


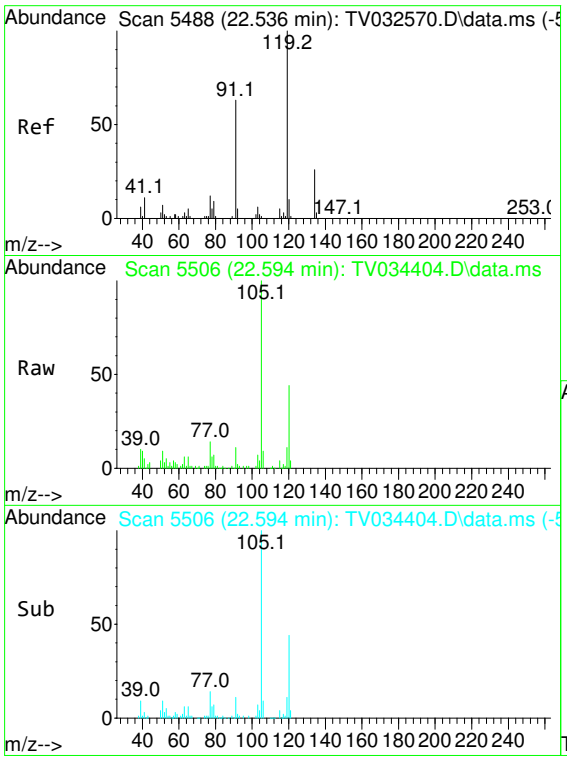


#66
p-Bromofluorobenzene
Concen: 9.01 ppbv
RT: 21.098 min Scan# 5041
Delta R.T. -0.037 min
Lab File: TV034404.D
Acq: 30 Dec 2025 04:51 am

Tgt Ion: 95 Resp: 531386

Ion	Ratio	Lower	Upper
95	100		
174	81.8	50.0	103.8
176	83.9	48.2	100.2
75	52.6	31.5	65.3

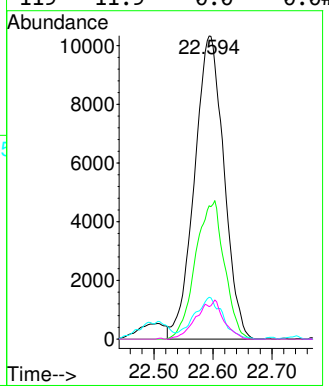




#70
1,2,4-Trimethylbenzene
Concen: 0.29 ppbv
RT: 22.594 min Scan# 5506
Delta R.T. -0.042 min
Lab File: TV034404.D
Acq: 30 Dec 2025 04:51 am

Tgt Ion:105 Resp: 35768

Ion	Ratio	Lower	Upper
105	100		
120	44.8	29.0	60.2
77	13.6	8.2	17.0
119	11.9	0.0	0.0#



FORM III

LCS / LCS DUPLICATE RECOVERY

EPA TO-15

Laboratory:	ALS Environmental - Stratford	SDG:	25L1231
Client:	Langan Engineering & Environmental Services (NYC)	Project:	170390601
Matrix:	Air		
Batch:	BL51829	Laboratory ID:	BL51829-BS1
Preparation:	EPA TO15 PREP	Initial/Final:	400 mL / 400 mL

COMPOUND	SPIKE ADDED (ppbv)	LCS CONCENTRATION (ppbv)	LCS % REC. #	QC LIMITS REC.	Q
1,1,1,2-Tetrachloroethane	10.0	9.36	93.6	70 - 130	
1,1,1-Trichloroethane	10.0	9.01	90.1	70 - 130	
1,1,2,2-Tetrachloroethane	10.0	9.77	97.7	70 - 130	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.0	9.35	93.5	70 - 130	
1,1,2-Trichloroethane	10.0	10.2	102	70 - 130	
1,1-Dichloroethane	10.0	9.15	91.5	70 - 130	
1,1-Dichloroethylene	10.0	9.30	93.0	70 - 130	
1,2,4-Trichlorobenzene	10.0	9.02	90.2	70 - 130	
1,2,4-Trimethylbenzene	10.0	9.67	96.7	70 - 130	
1,2-Dibromoethane	10.0	9.98	99.8	70 - 130	
1,2-Dichlorobenzene	10.0	10.1	101	70 - 130	
1,2-Dichloroethane	10.0	9.10	91.0	70 - 130	
1,2-Dichloropropane	10.0	10.3	103	70 - 130	
1,2-Dichlorotetrafluoroethane	10.0	8.28	82.8	70 - 130	
1,3,5-Trimethylbenzene	10.0	9.40	94.0	70 - 130	
1,3-Butadiene	10.0	9.69	96.9	70 - 130	
1,3-Dichlorobenzene	10.0	10.4	104	70 - 130	
1,3-Dichloropropane	10.0	9.99	99.9	70 - 130	
1,4-Dichlorobenzene	10.0	10.4	104	70 - 130	
1,4-Dioxane	10.0	10.0	100	70 - 130	
2,2,4-Trimethylpentane	10.0	10.1	101	70 - 130	
2-Butanone	10.0	9.30	93.0	70 - 130	
2-Hexanone	10.0	11.0	110	70 - 130	
3-Chloropropene	10.0	9.82	98.2	70 - 130	
4-Methyl-2-pentanone	10.0	10.4	104	70 - 130	
Acetone	10.0	9.05	90.5	70 - 130	
Acrolein	10.0	9.16	91.6	70 - 130	

FORM III

LCS / LCS DUPLICATE RECOVERY

EPA TO-15

Laboratory:	ALS Environmental - Stratford	SDG:	25L1231
Client:	Langan Engineering & Environmental Services (NYC)	Project:	170390601
Matrix:	Air		
Batch:	BL51829	Laboratory ID:	BL51829-BS1
Preparation:	EPA TO15 PREP	Initial/Final:	400 mL / 400 mL

COMPOUND	SPIKE ADDED (ppbv)	LCS CONCENTRATION (ppbv)	LCS % REC. #	QC LIMITS REC.	Q
Acrylonitrile	10.0	9.18	91.8	70 - 130	
Benzene	10.0	9.15	91.5	70 - 130	
Benzyl chloride	10.0	11.0	110	70 - 130	
Bromodichloromethane	10.0	10.0	100	70 - 130	
Bromoform	10.0	9.91	99.1	70 - 130	
Bromomethane	10.0	9.35	93.5	70 - 130	
Carbon disulfide	10.0	9.18	91.8	70 - 130	
Carbon tetrachloride	10.0	9.20	92.0	70 - 130	
Chlorobenzene	10.0	9.46	94.6	70 - 130	
Chloroethane	10.0	9.41	94.1	70 - 130	
Chloroform	10.0	9.14	91.4	70 - 130	
Chloromethane	10.0	8.48	84.8	70 - 130	
cis-1,2-Dichloroethylene	10.0	9.11	91.1	70 - 130	
cis-1,3-Dichloropropylene	10.0	10.2	102	70 - 130	
Cyclohexane	10.0	9.55	95.5	70 - 130	
Dibromochloromethane	10.0	9.98	99.8	70 - 130	
Dichlorodifluoromethane	10.0	9.46	94.6	70 - 130	
Ethyl acetate	10.0	9.35	93.5	70 - 130	
Ethyl Benzene	10.0	9.56	95.6	70 - 130	
Hexachlorobutadiene	10.0	10.8	108	70 - 130	
Isopropanol	10.0	9.71	97.1	70 - 130	
Isopropylbenzene	10.0	9.47	94.7	70 - 130	
Methyl Methacrylate	10.0	9.58	95.8	70 - 130	
Methyl tert-butyl ether (MTBE)	10.0	9.12	91.2	70 - 130	
Methylene chloride	10.0	9.72	97.2	70 - 130	
Naphthalene	10.0	9.64	96.4	70 - 130	
n-Butylbenzene	10.0	10.7	107	70 - 130	

FORM III

LCS / LCS DUPLICATE RECOVERY

EPA TO-15

Laboratory:	ALS Environmental - Stratford	SDG:	25L1231
Client:	Langan Engineering & Environmental Services (NYC)	Project:	170390601
Matrix:	Air		
Batch:	BL51829	Laboratory ID:	BL51829-BS1
Preparation:	EPA TO15 PREP	Initial/Final:	400 mL / 400 mL

COMPOUND	SPIKE ADDED (ppbv)	LCS CONCENTRATION (ppbv)	LCS % REC. #	QC LIMITS REC.	Q
n-Heptane	10.0	9.79	97.9	70 - 130	
n-Hexane	10.0	9.60	96.0	70 - 130	
n-Propylbenzene	10.0	9.76	97.6	70 - 130	
o-Xylene	10.0	9.31	93.1	70 - 130	
p- & m- Xylenes	20.0	18.8	93.8	70 - 130	
p-Ethyltoluene	10.0	9.85	98.5	70 - 130	
p-Isopropyltoluene	10.0	9.92	99.2	70 - 130	
Propylene	10.0	9.45	94.5	70 - 130	
sec-Butylbenzene	10.0	9.66	96.6	70 - 130	
Styrene	10.0	9.59	95.9	70 - 130	
tert-Butylbenzene	10.0	9.56	95.6	70 - 130	
Tetrachloroethylene	10.0	9.54	95.4	70 - 130	
Tetrahydrofuran	10.0	9.49	94.9	70 - 130	
Toluene	10.0	9.66	96.6	70 - 130	
trans-1,2-Dichloroethylene	10.0	9.45	94.5	70 - 130	
trans-1,3-Dichloropropylene	10.0	10.1	101	70 - 130	
Trichloroethylene	10.0	9.87	98.7	70 - 130	
Trichlorofluoromethane (Freon 11)	10.0	9.10	91.0	70 - 130	
Vinyl acetate	10.0	9.59	95.9	70 - 130	
Vinyl bromide	10.0	9.58	95.8	70 - 130	
Vinyl Chloride	10.0	8.84	88.4	70 - 130	

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

FORM III

LCS / LCS DUPLICATE RECOVERY

EPA TO-15

Laboratory:	ALS Environmental - Stratford	SDG:	25L1231
Client:	Langan Engineering & Environmental Services (NYC)	Project:	170390601
Matrix:	Air		
Batch:	BL51984	Laboratory ID:	BL51984-BS1
Preparation:	EPA TO15 PREP	Initial/Final:	400 mL / 400 mL

COMPOUND	SPIKE ADDED (ppbv)	LCS CONCENTRATION (ppbv)	LCS % REC. #	QC LIMITS REC.	Q
1,1,1,2-Tetrachloroethane	10.0	9.46	94.6	70 - 130	
1,1,1-Trichloroethane	10.0	8.86	88.6	70 - 130	
1,1,2,2-Tetrachloroethane	10.0	10.2	102	70 - 130	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.0	9.55	95.5	70 - 130	
1,1,2-Trichloroethane	10.0	10.2	102	70 - 130	
1,1-Dichloroethane	10.0	9.16	91.6	70 - 130	
1,1-Dichloroethylene	10.0	9.27	92.7	70 - 130	
1,2,4-Trichlorobenzene	10.0	9.58	95.8	70 - 130	
1,2,4-Trimethylbenzene	10.0	9.62	96.2	70 - 130	
1,2-Dibromoethane	10.0	10.0	100	70 - 130	
1,2-Dichlorobenzene	10.0	10.0	100	70 - 130	
1,2-Dichloroethane	10.0	8.82	88.2	70 - 130	
1,2-Dichloropropane	10.0	10.4	104	70 - 130	
1,2-Dichlorotetrafluoroethane	10.0	8.42	84.2	70 - 130	
1,3,5-Trimethylbenzene	10.0	9.30	93.0	70 - 130	
1,3-Butadiene	10.0	9.75	97.5	70 - 130	
1,3-Dichlorobenzene	10.0	10.2	102	70 - 130	
1,3-Dichloropropane	10.0	10.2	102	70 - 130	
1,4-Dichlorobenzene	10.0	10.2	102	70 - 130	
1,4-Dioxane	10.0	10.1	101	70 - 130	
2,2,4-Trimethylpentane	10.0	10.1	101	70 - 130	
2-Butanone	10.0	9.23	92.3	70 - 130	
2-Hexanone	10.0	10.8	108	70 - 130	
3-Chloropropene	10.0	9.84	98.4	70 - 130	
4-Methyl-2-pentanone	10.0	10.4	104	70 - 130	
Acetone	10.0	8.99	89.9	70 - 130	
Acrolein	10.0	9.24	92.4	70 - 130	

FORM III

LCS / LCS DUPLICATE RECOVERY

EPA TO-15

Laboratory:	ALS Environmental - Stratford	SDG:	25L1231
Client:	Langan Engineering & Environmental Services (NYC)	Project:	170390601
Matrix:	Air		
Batch:	BL51984	Laboratory ID:	BL51984-BS1
Preparation:	EPA TO15 PREP	Initial/Final:	400 mL / 400 mL

COMPOUND	SPIKE ADDED (ppbv)	LCS CONCENTRATION (ppbv)	LCS % REC. #	QC LIMITS REC.	Q
Acrylonitrile	10.0	9.21	92.1	70 - 130	
Benzene	10.0	9.29	92.9	70 - 130	
Benzyl chloride	10.0	10.8	108	70 - 130	
Bromodichloromethane	10.0	9.99	99.9	70 - 130	
Bromoform	10.0	9.97	99.7	70 - 130	
Bromomethane	10.0	9.55	95.5	70 - 130	
Carbon disulfide	10.0	9.39	93.9	70 - 130	
Carbon tetrachloride	10.0	9.04	90.4	70 - 130	
Chlorobenzene	10.0	9.56	95.6	70 - 130	
Chloroethane	10.0	9.70	97.0	70 - 130	
Chloroform	10.0	9.10	91.0	70 - 130	
Chloromethane	10.0	8.72	87.2	70 - 130	
cis-1,2-Dichloroethylene	10.0	9.10	91.0	70 - 130	
cis-1,3-Dichloropropylene	10.0	10.3	103	70 - 130	
Cyclohexane	10.0	9.54	95.4	70 - 130	
Dibromochloromethane	10.0	9.91	99.1	70 - 130	
Dichlorodifluoromethane	10.0	9.48	94.8	70 - 130	
Ethyl acetate	10.0	9.23	92.3	70 - 130	
Ethyl Benzene	10.0	9.61	96.1	70 - 130	
Hexachlorobutadiene	10.0	10.9	109	70 - 130	
Isopropanol	10.0	9.62	96.2	70 - 130	
Isopropylbenzene	10.0	9.59	95.9	70 - 130	
Methyl Methacrylate	10.0	9.98	99.8	70 - 130	
Methyl tert-butyl ether (MTBE)	10.0	9.20	92.0	70 - 130	
Methylene chloride	10.0	9.68	96.8	70 - 130	
Naphthalene	10.0	10.2	102	70 - 130	
n-Butylbenzene	10.0	10.7	107	70 - 130	

FORM III

LCS / LCS DUPLICATE RECOVERY

EPA TO-15

Laboratory:	ALS Environmental - Stratford	SDG:	25L1231
Client:	Langan Engineering & Environmental Services (NYC)	Project:	170390601
Matrix:	Air		
Batch:	BL51984	Laboratory ID:	BL51984-BS1
Preparation:	EPA TO15 PREP	Initial/Final:	400 mL / 400 mL

COMPOUND	SPIKE ADDED (ppbv)	LCS CONCENTRATION (ppbv)	LCS % REC. #	QC LIMITS REC.	Q
n-Heptane	10.0	9.69	96.9	70 - 130	
n-Hexane	10.0	9.64	96.4	70 - 130	
n-Propylbenzene	10.0	9.84	98.4	70 - 130	
o-Xylene	10.0	9.36	93.6	70 - 130	
p- & m- Xylenes	20.0	18.8	94.2	70 - 130	
p-Ethyltoluene	10.0	10.0	100	70 - 130	
p-Isopropyltoluene	10.0	9.82	98.2	70 - 130	
Propylene	10.0	9.39	93.9	70 - 130	
sec-Butylbenzene	10.0	9.60	96.0	70 - 130	
Styrene	10.0	9.61	96.1	70 - 130	
tert-Butylbenzene	10.0	9.51	95.1	70 - 130	
Tetrachloroethylene	10.0	9.52	95.2	70 - 130	
Tetrahydrofuran	10.0	9.49	94.9	70 - 130	
Toluene	10.0	9.79	97.9	70 - 130	
trans-1,2-Dichloroethylene	10.0	9.50	95.0	70 - 130	
trans-1,3-Dichloropropylene	10.0	10.2	102	70 - 130	
Trichloroethylene	10.0	9.94	99.4	70 - 130	
Trichlorofluoromethane (Freon 11)	10.0	8.99	89.9	70 - 130	
Vinyl acetate	10.0	10.2	102	70 - 130	
Vinyl bromide	10.0	9.80	98.0	70 - 130	
Vinyl Chloride	10.0	9.12	91.2	70 - 130	

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

LCS RAW DATA

SDG: 25L1231
CLASS: AIR
METHOD: EPA TO-15

Data Path : C:\MassHunter\GCMS\1\data\2025\12-DEC\122925\
Data File : TV034381.D
Acq On : 29 Dec 2025 10:59 am
Operator : YR
Sample : BL51829-BS1
Misc : QBTO3091525A
ALS Vial : 12 Sample Multiplier: 1
InstName : TO15_AIR3

Quant Time: Dec 29 12:15:47 2025
Quant Method : C:\MassHunter\GCMS\1\methods\AIR-3-DEC052025.M
Quant Title : TO15 VOC Analysis
QLast Update : Mon Dec 08 14:43:00 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Methane, bromochloro-	12.079	49	569099	10.00	ppbv		#-0.03
39) 1,4-Difluorobenzene	13.655	114	860049	10.00	ppbv		-0.03
55) d5-Chlorobenzene	18.928	117	778778	10.00	ppbv		#-0.03
Target Compounds							Qvalue
2) Propylene	5.019	42	220220	9.45	ppbv		97
3) Dichlorodifluoromethane	5.089	85	691888	9.46	ppbv	#	96
4) 1,2-Dichlorotetrafluor...	5.350	85	530317	8.28	ppbv		95
5) Chloromethane	5.578	50	301857	8.48	ppbv		99
6) Vinyl Chloride	5.851	62	262631	8.84	ppbv		95
7) 1,3-Butadiene	5.929	54	291777	9.69	ppbv		96
8) Bromomethane	6.726	94	214053	9.35	ppbv		99
9) Chloroethane	6.896	64	150683	9.41	ppbv	#	90
10) ethanol	7.006	45	185178	9.43	ppbv		89
11) Vinyl Bromide	7.353	106	212792	9.58	ppbv		100
12) Trichlorofluoromethane	7.472	101	675144	9.10	ppbv		98
13) Isopropanol	7.945	45	763673	9.71	ppbv		100
14) Acrolein	8.064	56	153544	9.16	ppbv	#	100
15) Acetone	8.173	43	562031	9.05	ppbv		97
16) Freon-113	8.343	101	463691	9.35	ppbv		98
17) 1,1-Dichloroethylene	8.568	61	510261	9.30	ppbv		84
18) 3-Chloropropene	9.160	41	507973	9.82	ppbv		89
19) Methylene Chloride	9.311	49	474745	9.72	ppbv	#	71
20) Acrylonitrile	9.392	53	323830	9.18	ppbv	#	100
21) Carbon disulfide	9.446	76	661247	9.18	ppbv	#	83
22) Methyl-tert-Butyl Ethe...	9.710	73	724196	9.12	ppbv	#	79
23) trans-1,2-Dichloroethy...	9.916	61	470577	9.45	ppbv		85
24) Hexane	10.205	57	565263	9.60	ppbv		96
25) Vinyl Acetate	10.523	43	817128	9.59	ppbv	#	99
26) 1,1-Dichloroethane	10.578	63	530041	9.15	ppbv	#	96
27) 2-Butanone	11.182	43	798716	9.30	ppbv	#	84
28) Ethyl Acetate	11.488	43	923067	9.35	ppbv	#	93
29) cis-1,2-Dichloroethylene	11.575	61	452128	9.11	ppbv		83
30) Chloroform	11.851	83	553970	9.14	ppbv	#	94
31) Tetrahydrofuran	12.176	42	476790	9.49	ppbv	#	82
32) 1,1,1-Trichlorethane	12.591	97	611291	9.01	ppbv		94
33) Cyclohexane	12.761	56	609869	9.55	ppbv	#	79
34) 2,2,4-Trimethylpentane	12.909	57	1885059	10.08	ppbv		99
35) Carbon Tetrachloride	13.057	117	632782	9.20	ppbv		100
36) 1,2-Dichloroethane	13.128	62	450241	9.10	ppbv	#	98
37) Benzene	13.260	78	721460	9.15	ppbv	#	100
38) n-Heptane	13.276	43	770135	9.79	ppbv	#	98
40) Trichloroethylene	14.292	95	351134	9.87	ppbv		99
41) 1,2-Dichloropropane	14.523	63	352998	10.34	ppbv	#	95
42) Methyl Methacrylate	14.536	69	273192	9.58	ppbv	#	79
43) 1,4-Dioxane	14.841	88	169988	10.03	ppbv	#	100
44) Bromodichloromethane	14.883	83	615369	10.01	ppbv	#	94
45) Methyl Isobutyl Ketone	15.423	43	993447	10.39	ppbv		96
46) cis-1,3-Dichloropropene	15.777	75	460690	10.24	ppbv	#	93
47) Toluene	16.433	91	915266	9.66	ppbv		99
48) trans-1,3-Dichloropropene	16.591	75	432252	10.13	ppbv	#	93
49) 1,1,2-Trichlorethane	16.886	97	312026	10.15	ppbv	#	89
50) 2-Hexanone	16.893	43	886919	10.97	ppbv	#	97
51) 1,3-Dichloropropane	17.311	76	465269	9.99	ppbv	#	100
52) Tetrachloroethylene	17.629	166	449187	9.54	ppbv		98

Quantitation Report (QT Reviewed)

Data Path : C:\MassHunter\GCMS\1\data\2025\12-DEC\122925\
Data File : TV034381.D
Acq On : 29 Dec 2025 10:59 am
Operator : YR
Sample : BL51829-BS1
Misc : QBTO3091525A
ALS Vial : 12 Sample Multiplier: 1
InstName : TO15_AIR3

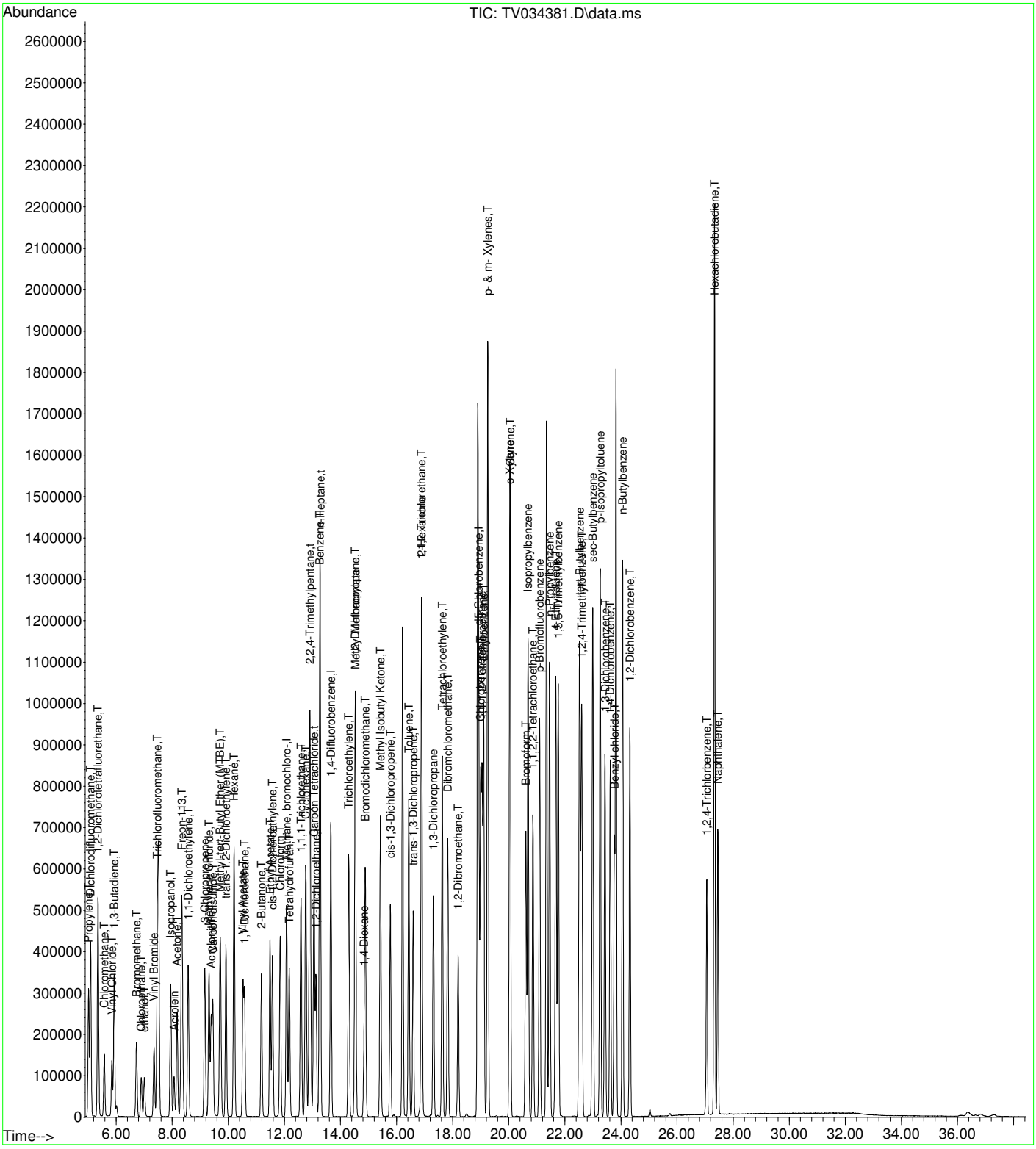
Quant Time: Dec 29 12:15:47 2025
Quant Method : C:\MassHunter\GCMS\1\methods\AIR-3-DEC052025.M
Quant Title : TO15 VOC Analysis
QLast Update : Mon Dec 08 14:43:00 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
53) Dibromchloromethane	17.822	129	610299	9.98	ppbv		98
54) 1,2-Dibromoethane	18.195	107	465540	9.98	ppbv		99
56) Chlorobenzene	18.999	112	692322	9.46	ppbv	#	86
57) 1,1,1,2-Tetrachloroethane	19.047	131	412205	9.36	ppbv		99
58) Ethylbenzene	19.105	91	1230344	9.56	ppbv		97
59) p- & m- Xylenes	19.250	91	1878489	18.75	ppbv		99
60) o-Xylene	20.031	91	966327	9.31	ppbv		99
61) Styrene	20.050	104	691150	9.59	ppbv	#	74
62) Bromoform	20.610	173	580352	9.91	ppbv		97
63) n-Propylbenzene	21.455	91	1664948	9.76	ppbv		100
64) Isopropylbenzene	20.687	105	1357545	9.47	ppbv		100
65) 1,1,2,2-Tetrachloroeth...	20.860	83	673343	9.77	ppbv	#	98
66) p-Bromofluorobenzene	21.098	95	580504	10.15	ppbv		93
67) 4-Ethyltoluene	21.677	105	1340443	9.85	ppbv		96
68) 1,3,5-Trimethylbenzene	21.764	105	1103918	9.40	ppbv		93
69) tert-Butylbenzene	22.526	119	1261192	9.56	ppbv	#	62
70) 1,2,4-Trimethylbenzene	22.597	105	1148196	9.67	ppbv	#	88
71) sec-Butylbenzene	22.995	105	1701020	9.66	ppbv	#	93
72) p-Isopropyltoluene	23.259	119	1441501	9.92	ppbv	#	99
73) 1,3-Dichlorobenzene	23.433	146	668465	10.39	ppbv		99
74) 1,4-Dichlorobenzene	23.619	146	637790	10.42	ppbv		99
75) Benzyl chloride	23.767	126	177478	10.96	ppbv	#	1
76) n-Butylbenzene	24.060	91	1339421	10.72	ppbv	#	90
77) 1,2-Dichlorobenzene	24.317	146	658640	10.12	ppbv		99
78) 1,2,4-Trichlorbenzene	27.056	180	288641	9.02	ppbv		96
79) Hexachlorobutadiene	27.333	225	719856	10.77	ppbv		98
80) Naphthalene	27.452	128	889350	9.64	ppbv		99

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

Data Path : C:\MassHunter\GCMS\1\data\2025\12-DEC\122925\
Data File : TV034381.D
Acq On : 29 Dec 2025 10:59 am
Operator : YR
Sample : BL51829-BS1
Misc : QBTO3091525A
ALS Vial : 12 Sample Multiplier: 1
InstName : TO15_AIR3

Quant Time: Dec 29 12:15:47 2025
Quant Method : C:\MassHunter\GCMS\1\methods\AIR-3-DEC052025.M
Quant Title : TO15 VOC Analysis
QLast Update : Mon Dec 08 14:43:00 2025
Response via : Initial Calibration



LCS RAW DATA

SDG: 25L1231
CLASS: AIR
METHOD: EPA TO-15

Data Path : C:\MassHunter\GCMS\1\data\2025\12-DEC\123025\
Data File : TV034413.D
Acq On : 30 Dec 2025 11:46 am
Operator : YR
Sample : BL51984-BS1
Misc : QBTO3091525A
ALS Vial : 12 Sample Multiplier: 1
InstName : TO15_AIR3

Quant Time: Dec 30 12:28:37 2025
Quant Method : C:\MassHunter\GCMS\1\methods\AIR-3-DEC052025.M
Quant Title : TO15 VOC Analysis
QLast Update : Mon Dec 08 14:43:00 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Methane, bromochloro-	12.076	49	593527	10.00	ppbv		#-0.03
39) 1,4-Difluorobenzene	13.655	114	894614	10.00	ppbv		-0.03
55) d5-Chlorobenzene	18.925	117	806733	10.00	ppbv		#-0.04
Target Compounds							Qvalue
2) Propylene	5.019	42	228076	9.39	ppbv		98
3) Dichlorodifluoromethane	5.089	85	723169	9.48	ppbv	#	96
4) 1,2-Dichlorotetrafluor...	5.353	85	562644	8.42	ppbv		94
5) Chloromethane	5.578	50	323498	8.72	ppbv		99
6) Vinyl Chloride	5.848	62	282460	9.12	ppbv		95
7) 1,3-Butadiene	5.932	54	305965	9.75	ppbv		97
8) Bromomethane	6.726	94	228107	9.55	ppbv		99
9) Chloroethane	6.893	64	162101	9.70	ppbv		91
10) ethanol	7.006	45	192544	9.40	ppbv		89
11) Vinyl Bromide	7.353	106	227172	9.80	ppbv		100
12) Trichlorofluoromethane	7.472	101	696269	8.99	ppbv		99
13) Isopropanol	7.944	45	788516	9.62	ppbv		100
14) Acrolein	8.063	56	161459	9.24	ppbv	#	100
15) Acetone	8.173	43	582688	8.99	ppbv		98
16) Freon-113	8.343	101	494026	9.55	ppbv		98
17) 1,1-Dichloroethylene	8.565	61	530706	9.27	ppbv		85
18) 3-Chloropropene	9.160	41	530923	9.84	ppbv		89
19) Methylene Chloride	9.311	49	492992	9.68	ppbv	#	72
20) Acrylonitrile	9.388	53	338584	9.21	ppbv	#	100
21) Carbon disulfide	9.446	76	705159	9.39	ppbv	#	85
22) Methyl-tert-Butyl Ethe...	9.710	73	762019	9.20	ppbv	#	81
23) trans-1,2-Dichloroethy...	9.915	61	493243	9.50	ppbv		86
24) Hexane	10.205	57	592328	9.64	ppbv		96
25) Vinyl Acetate	10.523	43	905689	10.19	ppbv	#	99
26) 1,1-Dichloroethane	10.575	63	552956	9.16	ppbv	#	97
27) 2-Butanone	11.179	43	826793	9.23	ppbv	#	85
28) Ethyl Acetate	11.488	43	950400	9.23	ppbv	#	93
29) cis-1,2-Dichloroethylene	11.575	61	471059	9.10	ppbv		83
30) Chloroform	11.848	83	574897	9.10	ppbv	#	94
31) Tetrahydrofuran	12.173	42	497241	9.49	ppbv	#	82
32) 1,1,1-Trichlorethane	12.591	97	626484	8.86	ppbv		93
33) Cyclohexane	12.761	56	635077	9.54	ppbv	#	79
34) 2,2,4-Trimethylpentane	12.909	57	1977486	10.14	ppbv		98
35) Carbon Tetrachloride	13.057	117	648021	9.04	ppbv	#	58
36) 1,2-Dichloroethane	13.128	62	455051	8.82	ppbv	#	98
37) Benzene	13.259	78	763638	9.29	ppbv	#	100
38) n-Heptane	13.275	43	794987	9.69	ppbv	#	96
40) Trichloroethylene	14.292	95	367827	9.94	ppbv		98
41) 1,2-Dichloropropane	14.520	63	369917	10.42	ppbv	#	95
42) Methyl Methacrylate	14.533	69	296049	9.98	ppbv	#	79
43) 1,4-Dioxane	14.841	88	178270	10.11	ppbv	#	100
44) Bromodichloromethane	14.883	83	639035	9.99	ppbv	#	94
45) Methyl Isobutyl Ketone	15.423	43	1029761	10.36	ppbv		96
46) cis-1,3-Dichloropropene	15.774	75	481236	10.28	ppbv	#	93
47) Toluene	16.433	91	964546	9.79	ppbv		99
48) trans-1,3-Dichloropropene	16.590	75	452590	10.19	ppbv	#	93
49) 1,1,2-Trichlorethane	16.883	97	327649	10.25	ppbv	#	90
50) 2-Hexanone	16.889	43	905144	10.76	ppbv		98
51) 1,3-Dichloropropane	17.311	76	493207	10.18	ppbv	#	100
52) Tetrachloroethylene	17.626	166	466420	9.52	ppbv		99

Quantitation Report (QT Reviewed)

Data Path : C:\MassHunter\GCMS\1\data\2025\12-DEC\123025\
Data File : TV034413.D
Acq On : 30 Dec 2025 11:46 am
Operator : YR
Sample : BL51984-BS1
Misc : QBTO3091525A
ALS Vial : 12 Sample Multiplier: 1
InstName : TO15_AIR3

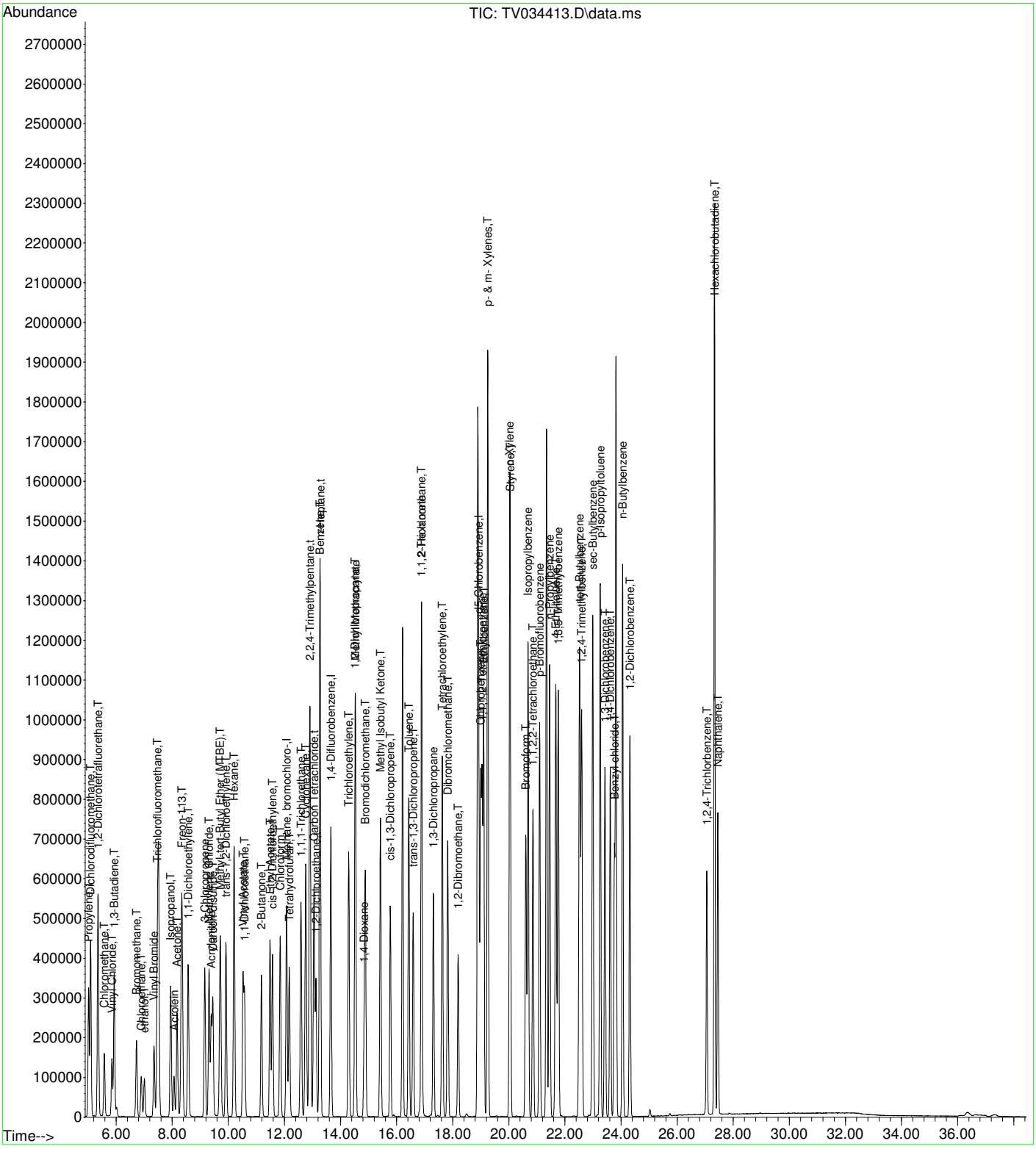
Quant Time: Dec 30 12:28:37 2025
Quant Method : C:\MassHunter\GCMS\1\methods\AIR-3-DEC052025.M
Quant Title : TO15 VOC Analysis
QLast Update : Mon Dec 08 14:43:00 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
53) Dibromchloromethane	17.822	129	630254	9.91	ppbv		98
54) 1,2-Dibromoethane	18.192	107	487279	10.04	ppbv		100
56) Chlorobenzene	18.996	112	724709	9.56	ppbv	#	100
57) 1,1,1,2-Tetrachloroethane	19.047	131	431442	9.46	ppbv		99
58) Ethylbenzene	19.102	91	1280928	9.61	ppbv		97
59) p- & m- Xylenes	19.250	91	1955086	18.84	ppbv		99
60) o-Xylene	20.031	91	1006872	9.36	ppbv		99
61) Styrene	20.050	104	717280	9.61	ppbv	#	74
62) Bromoform	20.603	173	604568	9.97	ppbv		98
63) n-Propylbenzene	21.452	91	1738882	9.84	ppbv		100
64) Isopropylbenzene	20.684	105	1425177	9.59	ppbv		100
65) 1,1,2,2-Tetrachloroeth...	20.857	83	726871	10.19	ppbv		98
66) p-Bromofluorobenzene	21.098	95	603082	10.18	ppbv		93
67) 4-Ethyltoluene	21.674	105	1409645	10.00	ppbv		98
68) 1,3,5-Trimethylbenzene	21.761	105	1131577	9.30	ppbv		95
69) tert-Butylbenzene	22.523	119	1299404	9.51	ppbv	#	62
70) 1,2,4-Trimethylbenzene	22.593	105	1182592	9.62	ppbv	#	88
71) sec-Butylbenzene	22.992	105	1749848	9.60	ppbv	#	100
72) p-Isopropyltoluene	23.259	119	1478253	9.82	ppbv	#	99
73) 1,3-Dichlorobenzene	23.429	146	677444	10.17	ppbv		99
74) 1,4-Dichlorobenzene	23.616	146	646168	10.19	ppbv		99
75) Benzyl chloride	23.764	126	180904	10.79	ppbv	#	1
76) n-Butylbenzene	24.056	91	1387077	10.72	ppbv	#	90
77) 1,2-Dichlorobenzene	24.317	146	676601	10.04	ppbv		99
78) 1,2,4-Trichlorbenzene	27.059	180	317708	9.58	ppbv		95
79) Hexachlorobutadiene	27.333	225	756849	10.93	ppbv		97
80) Naphthalene	27.452	128	974599	10.19	ppbv		99

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

Data Path : C:\MassHunter\GCMS\1\data\2025\12-DEC\123025\
Data File : TV034413.D
Acq On : 30 Dec 2025 11:46 am
Operator : YR
Sample : BL51984-BS1
Misc : QBTO3091525A
ALS Vial : 12 Sample Multiplier: 1
InstName : TO15_AIR3

Quant Time: Dec 30 12:28:37 2025
Quant Method : C:\MassHunter\GCMS\1\methods\AIR-3-DEC052025.M
Quant Title : TO15 VOC Analysis
QLast Update : Mon Dec 08 14:43:00 2025
Response via : Initial Calibration



FORM IV **PREPARATION BATCH SUMMARY**

EPA TO-15

Laboratory: ALS Environmental - Stratford SDG: 25L1231

Client: Langan Engineering & Environmental Services (NYC) Project: 170390601

Batch: BL51829 Batch Matrix: Air Preparation: EPA TO15 PREP

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
SSV01_121925	25L1231-01	TV034402.D	12/23/25 08:00	
IA01_121925	25L1231-02	TV034403.D	12/23/25 08:00	
AA01_121925	25L1231-03	TV034404.D	12/23/25 08:00	
Blank	BL51829-BLK1	TV034383.D	12/28/25 08:00	
LCS	BL51829-BS1	TV034381.D	12/28/25 08:00	

FORM IV **PREPARATION BATCH SUMMARY**

EPA TO-15

Laboratory: ALS Environmental - Stratford SDG: 25L1231

Client: Langan Engineering & Environmental Services (NYC) Project: 170390601

Batch: BL51984 Batch Matrix: Air Preparation: EPA TO15 PREP

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
IA01_121925	25L1231-02RE1	TV034424.D	12/30/25 08:00	From BL51829 by YR on 12/31/2025
Blank	BL51984-BLK1	TV034415.D	12/30/25 08:00	
LCS	BL51984-BS1	TV034413.D	12/30/25 08:00	

FORM I

METHOD BLANK DATA SHEET
EPA TO-15

Laboratory:	ALS Environmental - Stratford			SDG:	25L1231
Client:	Langan Engineering & Environmental Services (NYC)			Laboratory ID:	BL51829-BLK1
Project:	170390601			Calibration:	SL50019
Preparation:	EPA TO15 PREP	Prepared:	12/28/25 08:00	File ID:	TV034383.D
Instrument:	TO15_AIR3	Analyzed:	12/29/25 12:31	Initial/Final:	400 mL / 400 mL
Batch:	BL51829	Sequence:	S5L2929	Matrix:	Air

Analyzed by: ALS Environmental - Stratford

Volatile Organic Compounds in Air by GC/MS
Sample Prepared by Method: EPA TO15 PREP

Results Reported to MDL

CAS No.	Parameter	Result	Flag	Units	RL	MDL	Dilution	Reference Method	Prepared	Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/m³	0.69	0.21	1	EPA TO-15	12/28/25 08:00	12/29/25 12:31	
71-55-6	1,1,1-Trichloroethane	ND		ug/m³	0.55	0.19	1	EPA TO-15	12/28/25 08:00	12/29/25 12:31	
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/m³	0.69	0.19	1	EPA TO-15	12/28/25 08:00	12/29/25 12:31	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/m³	0.77	0.28	1	EPA TO-15	12/28/25 08:00	12/29/25 12:31	
79-00-5	1,1,2-Trichloroethane	ND		ug/m³	0.55	0.19	1	EPA TO-15	12/28/25 08:00	12/29/25 12:31	
75-34-3	1,1-Dichloroethane	ND		ug/m³	0.40	0.16	1	EPA TO-15	12/28/25 08:00	12/29/25 12:31	
75-35-4	1,1-Dichloroethylene	ND		ug/m³	0.20	0.17	1	EPA TO-15	12/28/25 08:00	12/29/25 12:31	
120-82-1	1,2,4-Trichlorobenzene	ND		ug/m³	37	0.28	1	EPA TO-15	12/28/25 08:00	12/29/25 12:31	
95-63-6	1,2,4-Trimethylbenzene	ND		ug/m³	0.49	0.17	1	EPA TO-15	12/28/25 08:00	12/29/25 12:31	
106-93-4	1,2-Dibromoethane	ND		ug/m³	0.77	0.24	1	EPA TO-15	12/28/25 08:00	12/29/25 12:31	
95-50-1	1,2-Dichlorobenzene	ND		ug/m³	0.60	0.18	1	EPA TO-15	12/28/25 08:00	12/29/25 12:31	
107-06-2	1,2-Dichloroethane	ND		ug/m³	0.40	0.19	1	EPA TO-15	12/28/25 08:00	12/29/25 12:31	
78-87-5	1,2-Dichloropropane	ND		ug/m³	0.46	0.16	1	EPA TO-15	12/28/25 08:00	12/29/25 12:31	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		ug/m³	0.70	0.36	1	EPA TO-15	12/28/25 08:00	12/29/25 12:31	
108-67-8	1,3,5-Trimethylbenzene	ND		ug/m³	0.49	0.075	1	EPA TO-15	12/28/25 08:00	12/29/25 12:31	
106-99-0	1,3-Butadiene	ND		ug/m³	0.66	0.069	1	EPA TO-15	12/28/25 08:00	12/29/25 12:31	
541-73-1	1,3-Dichlorobenzene	ND		ug/m³	0.60	0.17	1	EPA TO-15	12/28/25 08:00	12/29/25 12:31	
142-28-9	1,3-Dichloropropane	ND		ug/m³	0.46	0.14	1	EPA TO-15	12/28/25 08:00	12/29/25 12:31	
106-46-7	1,4-Dichlorobenzene	ND		ug/m³	0.60	0.14	1	EPA TO-15	12/28/25 08:00	12/29/25 12:31	
123-91-1	1,4-Dioxane	ND		ug/m³	1.8	0.38	1	EPA TO-15	12/28/25 08:00	12/29/25 12:31	
540-84-1	2,2,4-Trimethylpentane	ND		ug/m³	0.23	0.23	1	EPA TO-15	12/28/25 08:00	12/29/25 12:31	
78-93-3	2-Butanone	ND		ug/m³	15	0.50	1	EPA TO-15	12/28/25 08:00	12/29/25 12:31	
591-78-6	2-Hexanone	ND		ug/m³	0.82	0.22	1	EPA TO-15	12/28/25 08:00	12/29/25 12:31	
107-05-1	3-Chloropropene	ND		ug/m³	1.6	0.13	1	EPA TO-15	12/28/25 08:00	12/29/25 12:31	
108-10-1	4-Methyl-2-pentanone	ND		ug/m³	0.41	0.18	1	EPA TO-15	12/28/25 08:00	12/29/25 12:31	
67-64-1	Acetone	ND		ug/m³	12	1.2	1	EPA TO-15	12/28/25 08:00	12/29/25 12:31	
107-02-8	Acrolein	ND		ug/m³	0.23	0.14	1	EPA TO-15	12/28/25 08:00	12/29/25 12:31	
107-13-1	Acrylonitrile	ND		ug/m³	11	2.1	1	EPA TO-15	12/28/25 08:00	12/29/25 12:31	
71-43-2	Benzene	ND		ug/m³	0.32	0.12	1	EPA TO-15	12/28/25 08:00	12/29/25 12:31	
100-44-7	Benzyl chloride	ND		ug/m³	13	0.16	1	EPA TO-15	12/28/25 08:00	12/29/25 12:31	
75-27-4	Bromodichloromethane	ND		ug/m³	0.67	0.20	1	EPA TO-15	12/28/25 08:00	12/29/25 12:31	
75-25-2	Bromoform	ND		ug/m³	1.0	0.44	1	EPA TO-15	12/28/25 08:00	12/29/25 12:31	
74-83-9	Bromomethane	ND		ug/m³	0.39	0.17	1	EPA TO-15	12/28/25 08:00	12/29/25 12:31	
75-15-0	Carbon disulfide	ND		ug/m³	0.31	0.080	1	EPA TO-15	12/28/25 08:00	12/29/25 12:31	
56-23-5	Carbon tetrachloride	ND		ug/m³	0.19	0.19	1	EPA TO-15	12/28/25 08:00	12/29/25 12:31	
108-90-7	Chlorobenzene	ND		ug/m³	0.46	0.18	1	EPA TO-15	12/28/25 08:00	12/29/25 12:31	
75-00-3	Chloroethane	ND		ug/m³	0.26	0.15	1	EPA TO-15	12/28/25 08:00	12/29/25 12:31	
67-66-3	Chloroform	ND		ug/m³	0.49	0.14	1	EPA TO-15	12/28/25 08:00	12/29/25 12:31	
74-87-3	Chloromethane	ND		ug/m³	0.21	0.15	1	EPA TO-15	12/28/25 08:00	12/29/25 12:31	
156-59-2	cis-1,2-Dichloroethylene	ND		ug/m³	0.20	0.10	1	EPA TO-15	12/28/25 08:00	12/29/25 12:31	
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/m³	0.45	0.18	1	EPA TO-15	12/28/25 08:00	12/29/25 12:31	
110-82-7	Cyclohexane	ND		ug/m³	0.34	0.24	1	EPA TO-15	12/28/25 08:00	12/29/25 12:31	
124-48-1	Dibromochloromethane	ND		ug/m³	0.85	0.35	1	EPA TO-15	12/28/25 08:00	12/29/25 12:31	

FORM I

METHOD BLANK DATA SHEET
EPA TO-15

Laboratory:	ALS Environmental - Stratford			SDG:	25L1231
Client:	Langan Engineering & Environmental Services (NYC)			Laboratory ID:	BL51829-BLK1
Project:	170390601			Calibration:	SL50019
Preparation:	EPA TO15 PREP	Prepared:	12/28/25 08:00	File ID:	TV034383.D
Instrument:	TO15_AIR3	Analyzed:	12/29/25 12:31	Initial/Final:	400 mL / 400 mL
Batch:	BL51829	Sequence:	S5L2929	Matrix:	Air

Volatile Organic Compounds in Air by GC/MS
Sample Prepared by Method: EPA TO15 PREP

Results Reported to MDL

CAS No.	Parameter	Result	Flag	Units	RL	MDL	Dilution	Reference Method	Prepared	Analyzed	Analyst
75-71-8	Dichlorodifluoromethane	ND		ug/m³	0.49	0.28	1	EPA TO-15	12/28/25 08:00	12/29/25 12:31	
141-78-6	Ethyl acetate	ND		ug/m³	18	0.22	1	EPA TO-15	12/28/25 08:00	12/29/25 12:31	
100-41-4	Ethyl Benzene	ND		ug/m³	0.43	0.15	1	EPA TO-15	12/28/25 08:00	12/29/25 12:31	
87-68-3	Hexachlorobutadiene	ND		ug/m³	1.1	0.41	1	EPA TO-15	12/28/25 08:00	12/29/25 12:31	
67-63-0	Isopropanol	ND		ug/m³	1.5	0.059	1	EPA TO-15	12/28/25 08:00	12/29/25 12:31	
98-82-8	Isopropylbenzene	ND		ug/m³	0.49	0.088	1	EPA TO-15	12/28/25 08:00	12/29/25 12:31	
80-62-6	Methyl Methacrylate	ND		ug/m³	0.41	0.25	1	EPA TO-15	12/28/25 08:00	12/29/25 12:31	
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/m³	0.36	0.11	1	EPA TO-15	12/28/25 08:00	12/29/25 12:31	
75-09-2	Methylene chloride	ND		ug/m³	2.1	0.12	1	EPA TO-15	12/28/25 08:00	12/29/25 12:31	
91-20-3	Naphthalene	ND		ug/m³	5.2	0.36	1	EPA TO-15	12/28/25 08:00	12/29/25 12:31	
104-51-8	n-Butylbenzene	ND		ug/m³	0.55	0.16	1	EPA TO-15	12/28/25 08:00	12/29/25 12:31	
142-82-5	n-Heptane	ND		ug/m³	0.41	0.16	1	EPA TO-15	12/28/25 08:00	12/29/25 12:31	
110-54-3	n-Hexane	ND		ug/m³	0.35	0.11	1	EPA TO-15	12/28/25 08:00	12/29/25 12:31	
103-65-1	n-Propylbenzene	ND		ug/m³	0.49	0.13	1	EPA TO-15	12/28/25 08:00	12/29/25 12:31	
95-47-6	o-Xylene	ND		ug/m³	0.43	0.15	1	EPA TO-15	12/28/25 08:00	12/29/25 12:31	
179601-23-1	p- & m- Xylenes	ND		ug/m³	0.87	0.22	1	EPA TO-15	12/28/25 08:00	12/29/25 12:31	
622-96-8	p-Ethyltoluene	ND		ug/m³	0.49	0.17	1	EPA TO-15	12/28/25 08:00	12/29/25 12:31	
99-87-6	p-Isopropyltoluene	ND		ug/m³	0.55	0.099	1	EPA TO-15	12/28/25 08:00	12/29/25 12:31	
115-07-1	Propylene	ND		ug/m³	0.17	0.098	1	EPA TO-15	12/28/25 08:00	12/29/25 12:31	
135-98-8	sec-Butylbenzene	ND		ug/m³	0.55	0.14	1	EPA TO-15	12/28/25 08:00	12/29/25 12:31	
100-42-5	Styrene	ND		ug/m³	0.43	0.13	1	EPA TO-15	12/28/25 08:00	12/29/25 12:31	
98-06-6	tert-Butylbenzene	ND		ug/m³	0.55	0.21	1	EPA TO-15	12/28/25 08:00	12/29/25 12:31	
127-18-4	Tetrachloroethylene	ND		ug/m³	0.68	0.16	1	EPA TO-15	12/28/25 08:00	12/29/25 12:31	
109-99-9	Tetrahydrofuran	ND		ug/m³	0.59	0.099	1	EPA TO-15	12/28/25 08:00	12/29/25 12:31	
108-88-3	Toluene	ND		ug/m³	0.38	0.15	1	EPA TO-15	12/28/25 08:00	12/29/25 12:31	
156-60-5	trans-1,2-Dichloroethylene	ND		ug/m³	0.40	0.095	1	EPA TO-15	12/28/25 08:00	12/29/25 12:31	
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/m³	0.45	0.18	1	EPA TO-15	12/28/25 08:00	12/29/25 12:31	
79-01-6	Trichloroethylene	ND		ug/m³	0.16	0.16	1	EPA TO-15	12/28/25 08:00	12/29/25 12:31	
75-69-4	Trichlorofluoromethane (Freon 11)	ND		ug/m³	0.56	0.20	1	EPA TO-15	12/28/25 08:00	12/29/25 12:31	
108-05-4	Vinyl acetate	ND		ug/m³	0.35	0.18	1	EPA TO-15	12/28/25 08:00	12/29/25 12:31	
593-60-2	Vinyl bromide	ND		ug/m³	0.44	0.15	1	EPA TO-15	12/28/25 08:00	12/29/25 12:31	
75-01-4	Vinyl Chloride	ND		ug/m³	0.13	0.10	1	EPA TO-15	12/28/25 08:00	12/29/25 12:31	
1330-20-7	Xylenes, Total	ND		ug/m³	1.3	0.36	1	EPA TO-15	12/28/25 08:00	12/29/25 12:31	

Data Path : C:\MassHunter\GCMS\1\data\2025\12-DEC\122925\
Data File : TV034383.D
Acq On : 29 Dec 2025 12:31 pm
Operator : YR
Sample : BL51829-BLK1
Misc : QBTO3091525A
ALS Vial : 12 Sample Multiplier: 1
InstName : TO15_AIR3

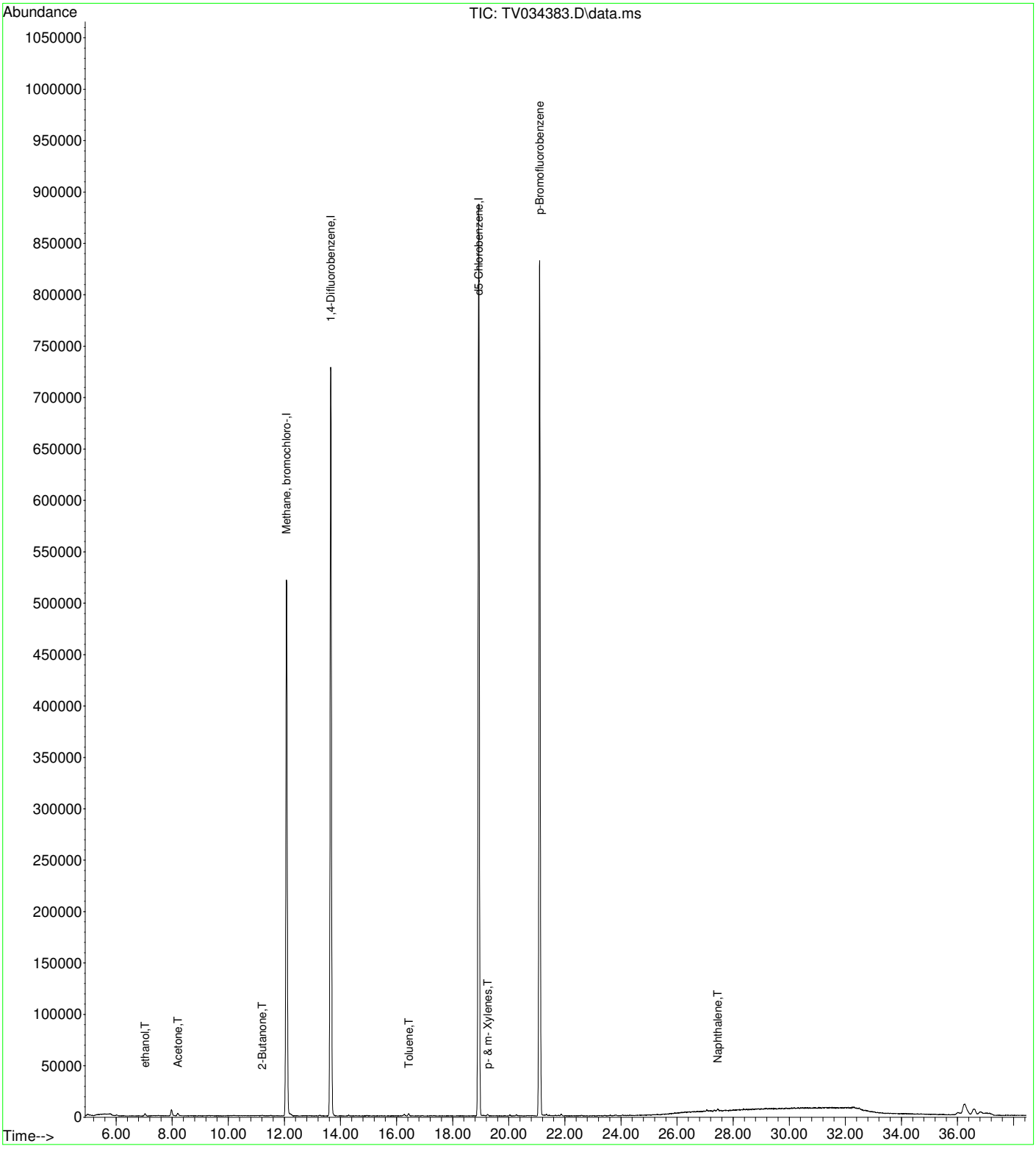
Quant Time: Dec 29 13:10:28 2025
Quant Method : C:\MassHunter\GCMS\1\methods\AIR-3-DEC052025.M
Quant Title : TO15 VOC Analysis
QLast Update : Mon Dec 08 14:43:00 2025
Response via : Initial Calibration

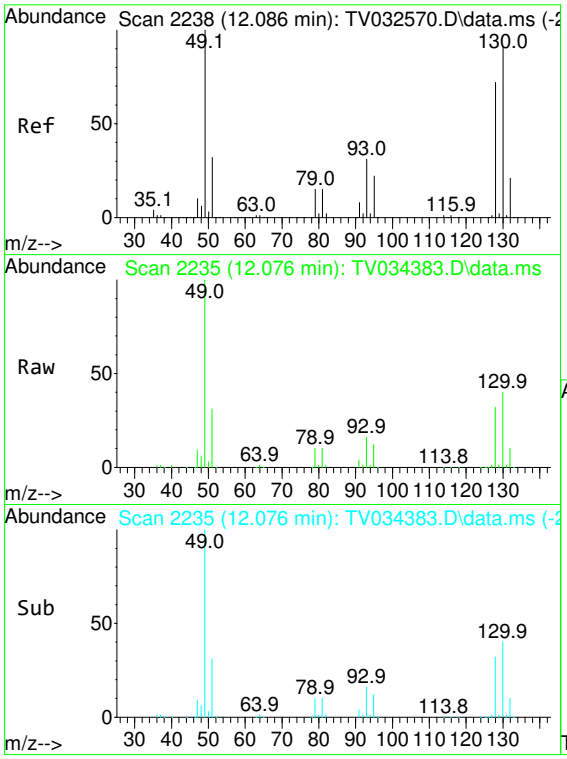
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Methane, bromochloro-	12.076	49	590451	10.00	ppbv	#-0.03
39) 1,4-Difluorobenzene	13.652	114	903144	10.00	ppbv	-0.04
55) d5-Chlorobenzene	18.925	117	796266	10.00	ppbv	#-0.04
Target Compounds						Qvalue
10) ethanol	7.031	45	4398	0.22	ppbv	89
15) Acetone	8.202	43	6269	0.10	ppbv	96
27) 2-Butanone	11.208	43	1285	0.01	ppbv #	56
47) Toluene	16.433	91	2771	0.03	ppbv #	93
59) p- & m- Xylenes	19.250	91	1653	0.02	ppbv #	77
66) p-Bromofluorobenzene	21.098	95	507284	8.67	ppbv	94
80) Naphthalene	27.452	128	2840	0.03	ppbv #	69

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

Data Path : C:\MassHunter\GCMS\1\data\2025\12-DEC\122925\
Data File : TV034383.D
Acq On : 29 Dec 2025 12:31 pm
Operator : YR
Sample : BL51829-BLK1
Misc : QBTO3091525A
ALS Vial : 12 Sample Multiplier: 1
InstName : TO15_AIR3

Quant Time: Dec 29 13:10:28 2025
Quant Method : C:\MassHunter\GCMS\1\methods\AIR-3-DEC052025.M
Quant Title : TO15 VOC Analysis
QLast Update : Mon Dec 08 14:43:00 2025
Response via : Initial Calibration

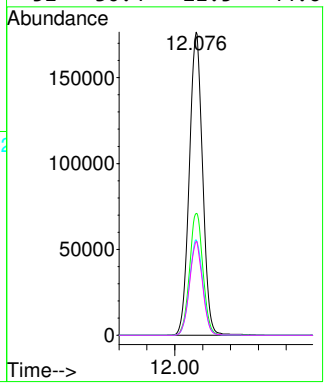


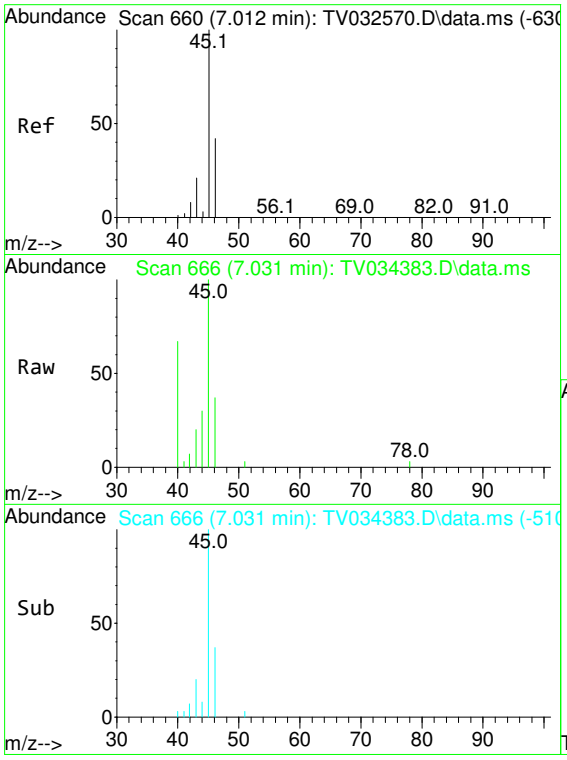


#1
Methane, bromochloro-
Concen: 10.00 ppbv
RT: 12.076 min Scan# 2235
Delta R.T. -0.035 min
Lab File: TV034383.D
Acq: 29 Dec 2025 12:31 pm

Tgt Ion: 49 Resp: 590451

Ion	Ratio	Lower	Upper
49	100		
130	40.6	44.5	92.3#
128	31.8	34.7	72.1#
51	30.4	21.5	44.6

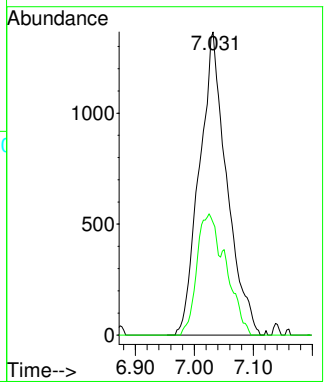


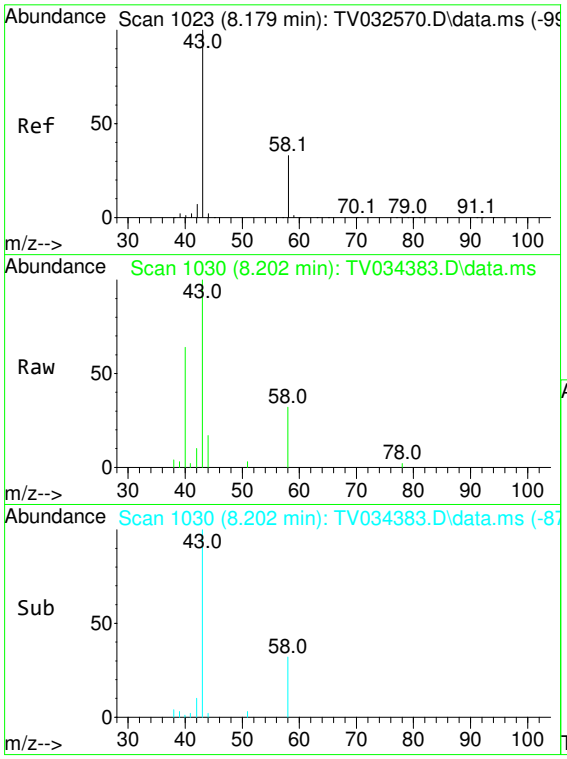


#10
ethanol
Concen: 0.22 ppbv
RT: 7.031 min Scan# 666
Delta R.T. 0.000 min
Lab File: TV034383.D
Acq: 29 Dec 2025 12:31 pm

Tgt Ion: 45 Resp: 4398

Ion	Ratio	Lower	Upper
45	100		
46	42.4	40.0	60.0

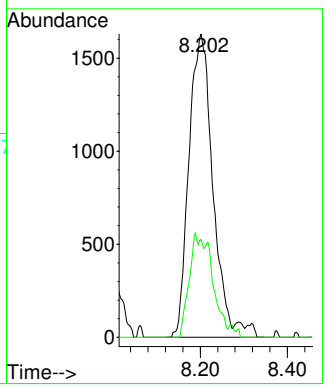


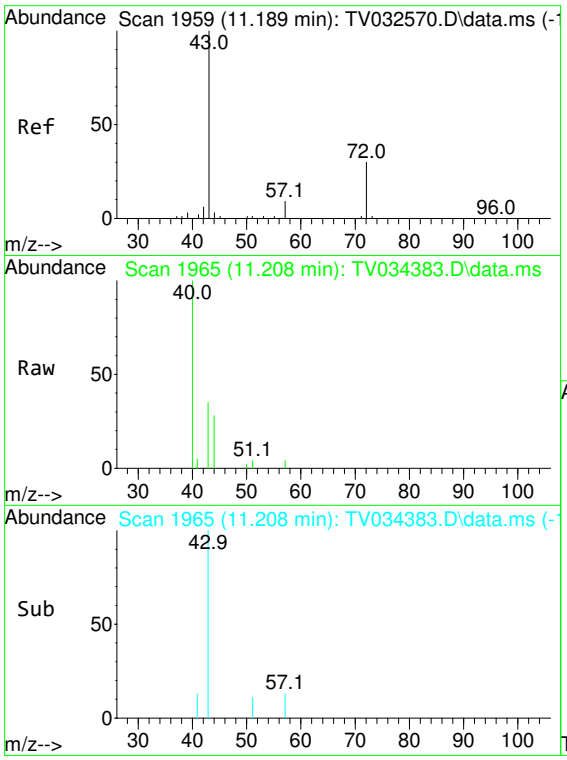


#15
Acetone
Concen: 0.10 ppbv
RT: 8.202 min Scan# 1030
Delta R.T. 0.001 min
Lab File: TV034383.D
Acq: 29 Dec 2025 12:31 pm

Tgt Ion: 43 Resp: 6269

Ion	Ratio	Lower	Upper
43	100		
58	33.8	20.7	42.9

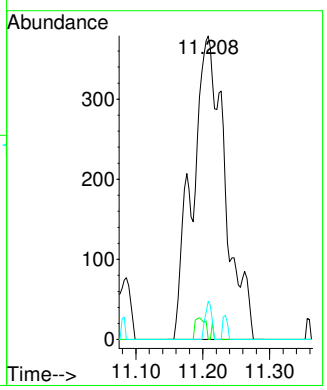


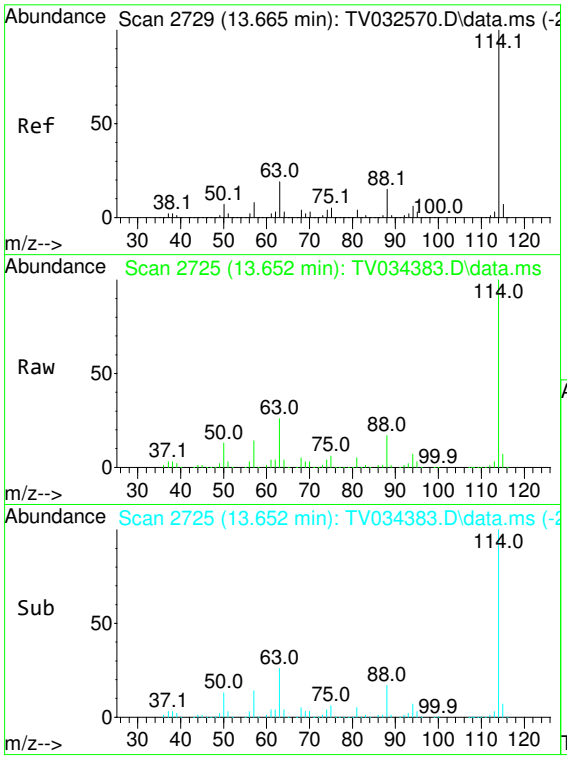


#27
2-Butanone
Concen: 0.01 ppbv
RT: 11.208 min Scan# 1965
Delta R.T. -0.004 min
Lab File: TV034383.D
Acq: 29 Dec 2025 12:31 pm

Tgt Ion: 43 Resp: 1285

Ion	Ratio	Lower	Upper
43	100		
72	0.0	16.4	34.2#
57	0.0	5.0	10.4#

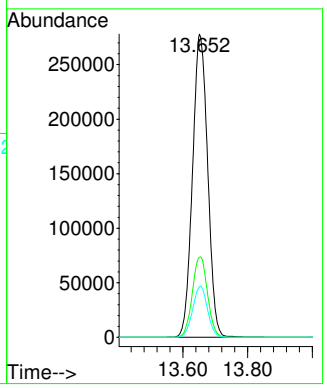


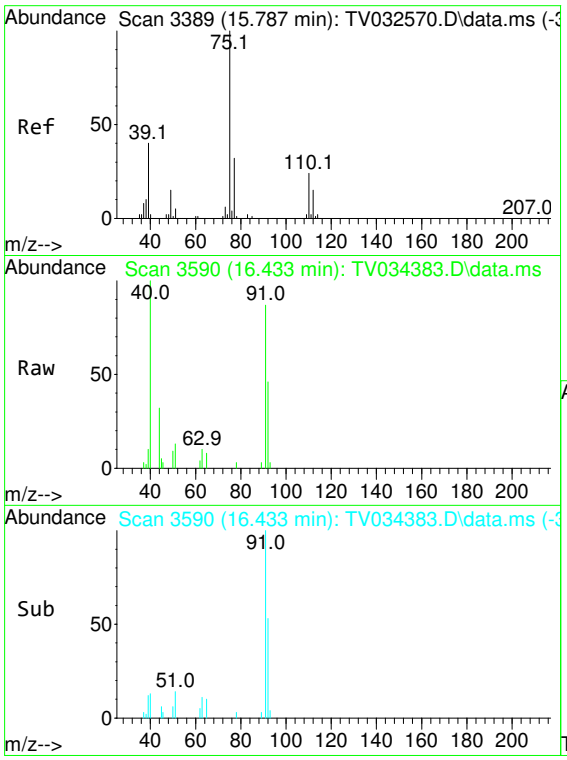


#39
1,4-Difluorobenzene
Concen: 10.00 ppbv
RT: 13.652 min Scan# 2725
Delta R.T. -0.037 min
Lab File: TV034383.D
Acq: 29 Dec 2025 12:31 pm

Tgt Ion:114 Resp: 903144

Ion	Ratio	Lower	Upper
114	100		
63	26.6	14.0	29.2
88	16.5	11.2	23.2

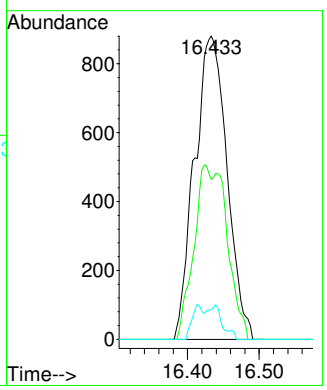


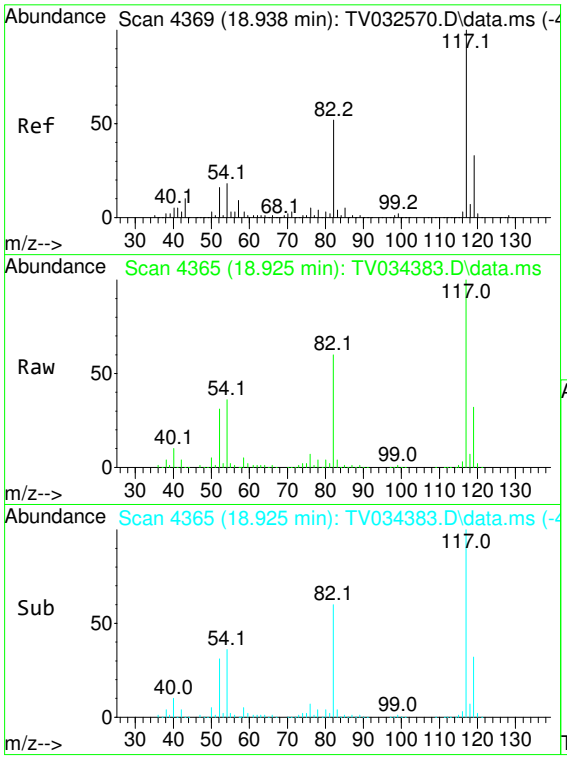


#47
Toluene
Concen: 0.03 ppbv
RT: 16.433 min Scan# 3590
Delta R.T. -0.035 min
Lab File: TV034383.D
Acq: 29 Dec 2025 12:31 pm

Tgt Ion: 91 Resp: 2771

Ion	Ratio	Lower	Upper
91	100		
92	58.4	39.0	81.0
65	0.0	7.7	16.1#

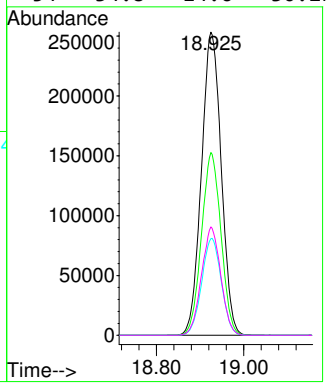


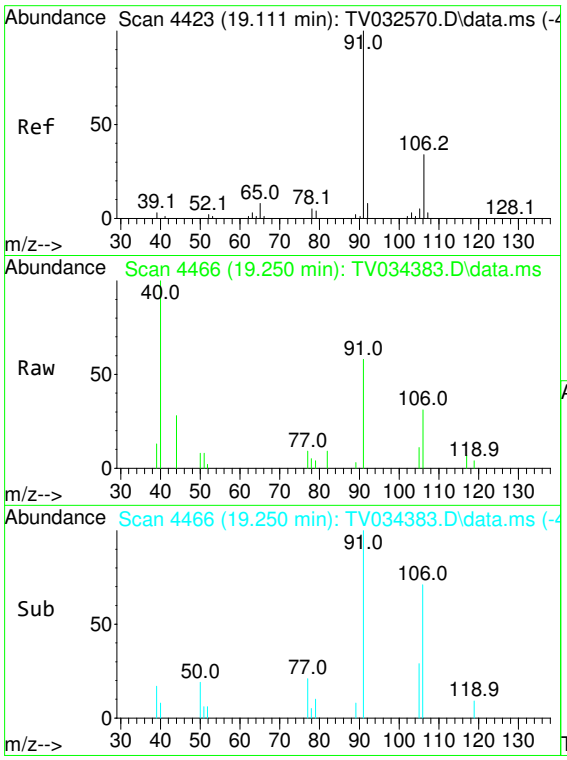


#55
d5-Chlorobenzene
Concen: 10.00 ppbv
RT: 18.925 min Scan# 4365
Delta R.T. -0.037 min
Lab File: TV034383.D
Acq: 29 Dec 2025 12:31 pm

Tgt Ion:117 Resp: 796266

Ion	Ratio	Lower	Upper
117	100		
82	59.3	38.7	80.5
119	31.8	20.3	42.3
54	34.8	14.6	30.2#

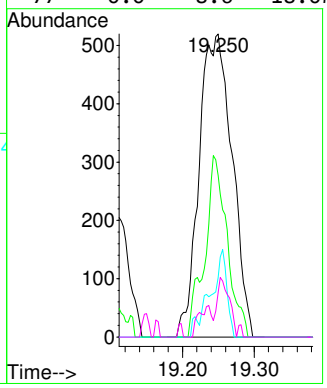


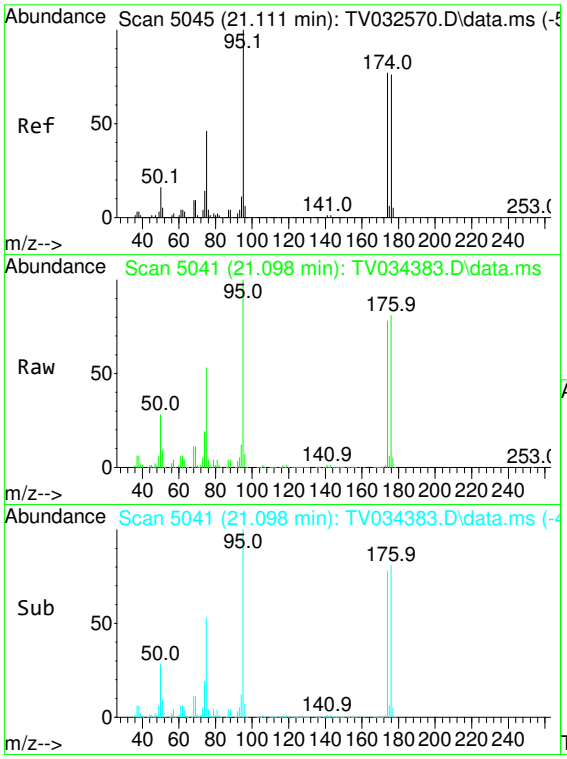


#59
p- & m- Xylenes
Concen: 0.02 ppbv
RT: 19.250 min Scan# 4466
Delta R.T. -0.032 min
Lab File: TV034383.D
Acq: 29 Dec 2025 12:31 pm

Tgt Ion: 91 Resp: 1653

Ion	Ratio	Lower	Upper
91	100		
106	40.5	31.0	64.4
105	0.0	13.4	27.8#
77	0.0	8.6	18.0#

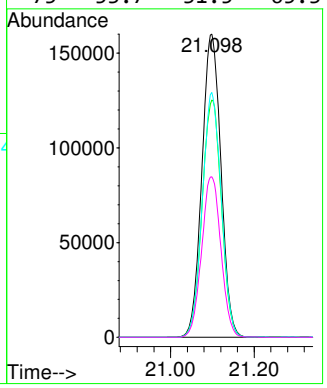


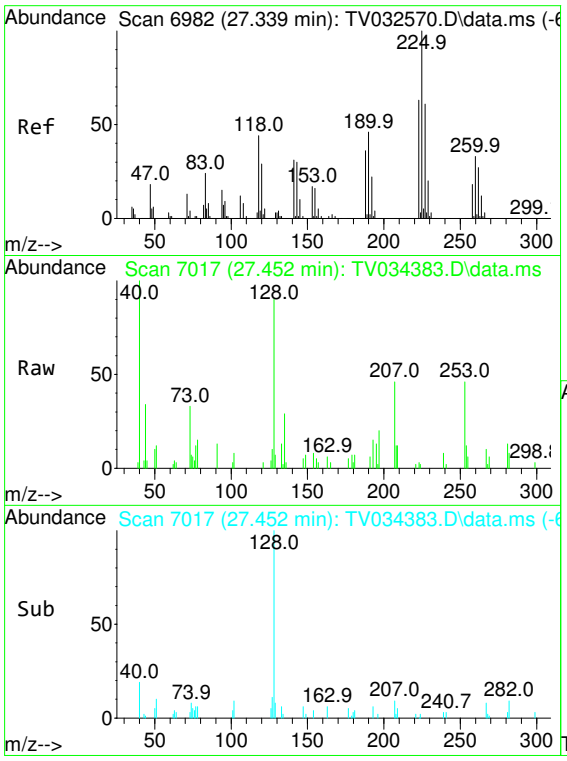


#66
p-Bromofluorobenzene
Concen: 8.67 ppbv
RT: 21.098 min Scan# 5041
Delta R.T. -0.037 min
Lab File: TV034383.D
Acq: 29 Dec 2025 12:31 pm

Tgt Ion: 95 Resp: 507284

Ion	Ratio	Lower	Upper
95	100		
174	79.1	50.0	103.8
176	80.5	48.2	100.2
75	53.7	31.5	65.3

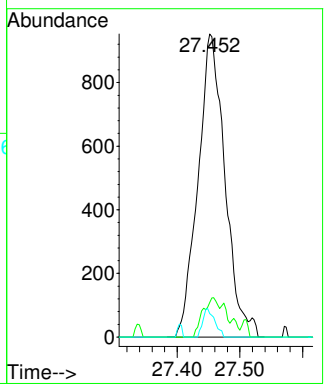




#80
Naphthalene
Concen: 0.03 ppbv
RT: 27.452 min Scan# 7017
Delta R.T. -0.038 min
Lab File: TV034383.D
Acq: 29 Dec 2025 12:31 pm

Tgt Ion:128 Resp: 2840

Ion	Ratio	Lower	Upper
128	100		
127	0.0	8.1	16.9#
129	0.0	7.3	15.1#



FORM I

METHOD BLANK DATA SHEET
EPA TO-15

Laboratory:	ALS Environmental - Stratford			SDG:	25L1231
Client:	Langan Engineering & Environmental Services (NYC)			Laboratory ID:	BL51984-BLK1
Project:	170390601			Calibration:	SL50019
Preparation:	EPA TO15 PREP	Prepared:	12/30/25 08:00	File ID:	TV034415.D
Instrument:	TO15_AIR3	Analyzed:	12/30/25 13:45	Initial/Final:	400 mL / 400 mL
Batch:	BL51984	Sequence:	S5L3118	Matrix:	Air

Analyzed by: ALS Environmental - Stratford

Volatile Organic Compounds in Air by GC/MS
Sample Prepared by Method: EPA TO15 PREP

Results Reported to MDL

CAS No.	Parameter	Result	Flag	Units	RL	MDL	Dilution	Reference Method	Prepared	Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/m³	0.69	0.21	1	EPA TO-15	12/30/25 08:00	12/30/25 13:45	
71-55-6	1,1,1-Trichloroethane	ND		ug/m³	0.55	0.19	1	EPA TO-15	12/30/25 08:00	12/30/25 13:45	
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/m³	0.69	0.19	1	EPA TO-15	12/30/25 08:00	12/30/25 13:45	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/m³	0.77	0.28	1	EPA TO-15	12/30/25 08:00	12/30/25 13:45	
79-00-5	1,1,2-Trichloroethane	ND		ug/m³	0.55	0.19	1	EPA TO-15	12/30/25 08:00	12/30/25 13:45	
75-34-3	1,1-Dichloroethane	ND		ug/m³	0.40	0.16	1	EPA TO-15	12/30/25 08:00	12/30/25 13:45	
75-35-4	1,1-Dichloroethylene	ND		ug/m³	0.20	0.17	1	EPA TO-15	12/30/25 08:00	12/30/25 13:45	
120-82-1	1,2,4-Trichlorobenzene	ND		ug/m³	37	0.28	1	EPA TO-15	12/30/25 08:00	12/30/25 13:45	
95-63-6	1,2,4-Trimethylbenzene	ND		ug/m³	0.49	0.17	1	EPA TO-15	12/30/25 08:00	12/30/25 13:45	
106-93-4	1,2-Dibromoethane	ND		ug/m³	0.77	0.24	1	EPA TO-15	12/30/25 08:00	12/30/25 13:45	
95-50-1	1,2-Dichlorobenzene	ND		ug/m³	0.60	0.18	1	EPA TO-15	12/30/25 08:00	12/30/25 13:45	
107-06-2	1,2-Dichloroethane	ND		ug/m³	0.40	0.19	1	EPA TO-15	12/30/25 08:00	12/30/25 13:45	
78-87-5	1,2-Dichloropropane	ND		ug/m³	0.46	0.16	1	EPA TO-15	12/30/25 08:00	12/30/25 13:45	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		ug/m³	0.70	0.36	1	EPA TO-15	12/30/25 08:00	12/30/25 13:45	
108-67-8	1,3,5-Trimethylbenzene	ND		ug/m³	0.49	0.075	1	EPA TO-15	12/30/25 08:00	12/30/25 13:45	
106-99-0	1,3-Butadiene	ND		ug/m³	0.66	0.069	1	EPA TO-15	12/30/25 08:00	12/30/25 13:45	
541-73-1	1,3-Dichlorobenzene	ND		ug/m³	0.60	0.17	1	EPA TO-15	12/30/25 08:00	12/30/25 13:45	
142-28-9	1,3-Dichloropropane	ND		ug/m³	0.46	0.14	1	EPA TO-15	12/30/25 08:00	12/30/25 13:45	
106-46-7	1,4-Dichlorobenzene	ND		ug/m³	0.60	0.14	1	EPA TO-15	12/30/25 08:00	12/30/25 13:45	
123-91-1	1,4-Dioxane	ND		ug/m³	1.8	0.38	1	EPA TO-15	12/30/25 08:00	12/30/25 13:45	
540-84-1	2,2,4-Trimethylpentane	ND		ug/m³	0.23	0.23	1	EPA TO-15	12/30/25 08:00	12/30/25 13:45	
78-93-3	2-Butanone	ND		ug/m³	15	0.50	1	EPA TO-15	12/30/25 08:00	12/30/25 13:45	
591-78-6	2-Hexanone	ND		ug/m³	0.82	0.22	1	EPA TO-15	12/30/25 08:00	12/30/25 13:45	
107-05-1	3-Chloropropene	ND		ug/m³	1.6	0.13	1	EPA TO-15	12/30/25 08:00	12/30/25 13:45	
108-10-1	4-Methyl-2-pentanone	ND		ug/m³	0.41	0.18	1	EPA TO-15	12/30/25 08:00	12/30/25 13:45	
67-64-1	Acetone	ND		ug/m³	12	1.2	1	EPA TO-15	12/30/25 08:00	12/30/25 13:45	
107-02-8	Acrolein	ND		ug/m³	0.23	0.14	1	EPA TO-15	12/30/25 08:00	12/30/25 13:45	
107-13-1	Acrylonitrile	ND		ug/m³	11	2.1	1	EPA TO-15	12/30/25 08:00	12/30/25 13:45	
71-43-2	Benzene	ND		ug/m³	0.32	0.12	1	EPA TO-15	12/30/25 08:00	12/30/25 13:45	
100-44-7	Benzyl chloride	ND		ug/m³	13	0.16	1	EPA TO-15	12/30/25 08:00	12/30/25 13:45	
75-27-4	Bromodichloromethane	ND		ug/m³	0.67	0.20	1	EPA TO-15	12/30/25 08:00	12/30/25 13:45	
75-25-2	Bromoform	ND		ug/m³	1.0	0.44	1	EPA TO-15	12/30/25 08:00	12/30/25 13:45	
74-83-9	Bromomethane	ND		ug/m³	0.39	0.17	1	EPA TO-15	12/30/25 08:00	12/30/25 13:45	
75-15-0	Carbon disulfide	ND		ug/m³	0.31	0.080	1	EPA TO-15	12/30/25 08:00	12/30/25 13:45	
56-23-5	Carbon tetrachloride	ND		ug/m³	0.19	0.19	1	EPA TO-15	12/30/25 08:00	12/30/25 13:45	
108-90-7	Chlorobenzene	ND		ug/m³	0.46	0.18	1	EPA TO-15	12/30/25 08:00	12/30/25 13:45	
75-00-3	Chloroethane	ND		ug/m³	0.26	0.15	1	EPA TO-15	12/30/25 08:00	12/30/25 13:45	
67-66-3	Chloroform	ND		ug/m³	0.49	0.14	1	EPA TO-15	12/30/25 08:00	12/30/25 13:45	
74-87-3	Chloromethane	ND		ug/m³	0.21	0.15	1	EPA TO-15	12/30/25 08:00	12/30/25 13:45	
156-59-2	cis-1,2-Dichloroethylene	ND		ug/m³	0.20	0.10	1	EPA TO-15	12/30/25 08:00	12/30/25 13:45	
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/m³	0.45	0.18	1	EPA TO-15	12/30/25 08:00	12/30/25 13:45	
110-82-7	Cyclohexane	ND		ug/m³	0.34	0.24	1	EPA TO-15	12/30/25 08:00	12/30/25 13:45	
124-48-1	Dibromochloromethane	ND		ug/m³	0.85	0.35	1	EPA TO-15	12/30/25 08:00	12/30/25 13:45	

FORM I

METHOD BLANK DATA SHEET
EPA TO-15

Laboratory:	ALS Environmental - Stratford			SDG:	25L1231
Client:	Langan Engineering & Environmental Services (NYC)			Laboratory ID:	BL51984-BLK1
Project:	170390601			Calibration:	SL50019
Preparation:	EPA TO15 PREP	Prepared:	12/30/25 08:00	File ID:	TV034415.D
Instrument:	TO15_AIR3	Analyzed:	12/30/25 13:45	Initial/Final:	400 mL / 400 mL
Batch:	BL51984	Sequence:	S5L3118	Matrix:	Air

Volatile Organic Compounds in Air by GC/MS
Sample Prepared by Method: EPA TO15 PREP

Results Reported to MDL

CAS No.	Parameter	Result	Flag	Units	RL	MDL	Dilution	Reference Method	Prepared	Analyzed	Analyst
75-71-8	Dichlorodifluoromethane	ND		ug/m³	0.49	0.28	1	EPA TO-15	12/30/25 08:00	12/30/25 13:45	
141-78-6	Ethyl acetate	ND		ug/m³	18	0.22	1	EPA TO-15	12/30/25 08:00	12/30/25 13:45	
100-41-4	Ethyl Benzene	ND		ug/m³	0.43	0.15	1	EPA TO-15	12/30/25 08:00	12/30/25 13:45	
87-68-3	Hexachlorobutadiene	ND		ug/m³	1.1	0.41	1	EPA TO-15	12/30/25 08:00	12/30/25 13:45	
67-63-0	Isopropanol	0.37		ug/m³	1.5	0.059	1	EPA TO-15	12/30/25 08:00	12/30/25 13:45	
98-82-8	Isopropylbenzene	ND		ug/m³	0.49	0.088	1	EPA TO-15	12/30/25 08:00	12/30/25 13:45	
80-62-6	Methyl Methacrylate	ND		ug/m³	0.41	0.25	1	EPA TO-15	12/30/25 08:00	12/30/25 13:45	
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/m³	0.36	0.11	1	EPA TO-15	12/30/25 08:00	12/30/25 13:45	
75-09-2	Methylene chloride	ND		ug/m³	2.1	0.12	1	EPA TO-15	12/30/25 08:00	12/30/25 13:45	
91-20-3	Naphthalene	ND		ug/m³	5.2	0.36	1	EPA TO-15	12/30/25 08:00	12/30/25 13:45	
104-51-8	n-Butylbenzene	ND		ug/m³	0.55	0.16	1	EPA TO-15	12/30/25 08:00	12/30/25 13:45	
142-82-5	n-Heptane	ND		ug/m³	0.41	0.16	1	EPA TO-15	12/30/25 08:00	12/30/25 13:45	
110-54-3	n-Hexane	ND		ug/m³	0.35	0.11	1	EPA TO-15	12/30/25 08:00	12/30/25 13:45	
103-65-1	n-Propylbenzene	ND		ug/m³	0.49	0.13	1	EPA TO-15	12/30/25 08:00	12/30/25 13:45	
95-47-6	o-Xylene	ND		ug/m³	0.43	0.15	1	EPA TO-15	12/30/25 08:00	12/30/25 13:45	
179601-23-1	p- & m- Xylenes	ND		ug/m³	0.87	0.22	1	EPA TO-15	12/30/25 08:00	12/30/25 13:45	
622-96-8	p-Ethyltoluene	ND		ug/m³	0.49	0.17	1	EPA TO-15	12/30/25 08:00	12/30/25 13:45	
99-87-6	p-Isopropyltoluene	ND		ug/m³	0.55	0.099	1	EPA TO-15	12/30/25 08:00	12/30/25 13:45	
115-07-1	Propylene	ND		ug/m³	0.17	0.098	1	EPA TO-15	12/30/25 08:00	12/30/25 13:45	
135-98-8	sec-Butylbenzene	ND		ug/m³	0.55	0.14	1	EPA TO-15	12/30/25 08:00	12/30/25 13:45	
100-42-5	Styrene	ND		ug/m³	0.43	0.13	1	EPA TO-15	12/30/25 08:00	12/30/25 13:45	
98-06-6	tert-Butylbenzene	ND		ug/m³	0.55	0.21	1	EPA TO-15	12/30/25 08:00	12/30/25 13:45	
127-18-4	Tetrachloroethylene	ND		ug/m³	0.68	0.16	1	EPA TO-15	12/30/25 08:00	12/30/25 13:45	
109-99-9	Tetrahydrofuran	ND		ug/m³	0.59	0.099	1	EPA TO-15	12/30/25 08:00	12/30/25 13:45	
108-88-3	Toluene	ND		ug/m³	0.38	0.15	1	EPA TO-15	12/30/25 08:00	12/30/25 13:45	
156-60-5	trans-1,2-Dichloroethylene	ND		ug/m³	0.40	0.095	1	EPA TO-15	12/30/25 08:00	12/30/25 13:45	
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/m³	0.45	0.18	1	EPA TO-15	12/30/25 08:00	12/30/25 13:45	
79-01-6	Trichloroethylene	ND		ug/m³	0.16	0.16	1	EPA TO-15	12/30/25 08:00	12/30/25 13:45	
75-69-4	Trichlorofluoromethane (Freon 11)	ND		ug/m³	0.56	0.20	1	EPA TO-15	12/30/25 08:00	12/30/25 13:45	
108-05-4	Vinyl acetate	ND		ug/m³	0.35	0.18	1	EPA TO-15	12/30/25 08:00	12/30/25 13:45	
593-60-2	Vinyl bromide	ND		ug/m³	0.44	0.15	1	EPA TO-15	12/30/25 08:00	12/30/25 13:45	
75-01-4	Vinyl Chloride	ND		ug/m³	0.13	0.10	1	EPA TO-15	12/30/25 08:00	12/30/25 13:45	
1330-20-7	Xylenes, Total	ND		ug/m³	1.3	0.36	1	EPA TO-15	12/30/25 08:00	12/30/25 13:45	

Quantitation Report (QT Reviewed)

Data Path : C:\MassHunter\GCMS\1\data\2025\12-DEC\123025\
Data File : TV034415.D
Acq On : 30 Dec 2025 01:45 pm
Operator : YR
Sample : BL51984-BLK1
Misc : QBTO3091525A
ALS Vial : 12 Sample Multiplier: 1
InstName : TO15_AIR3

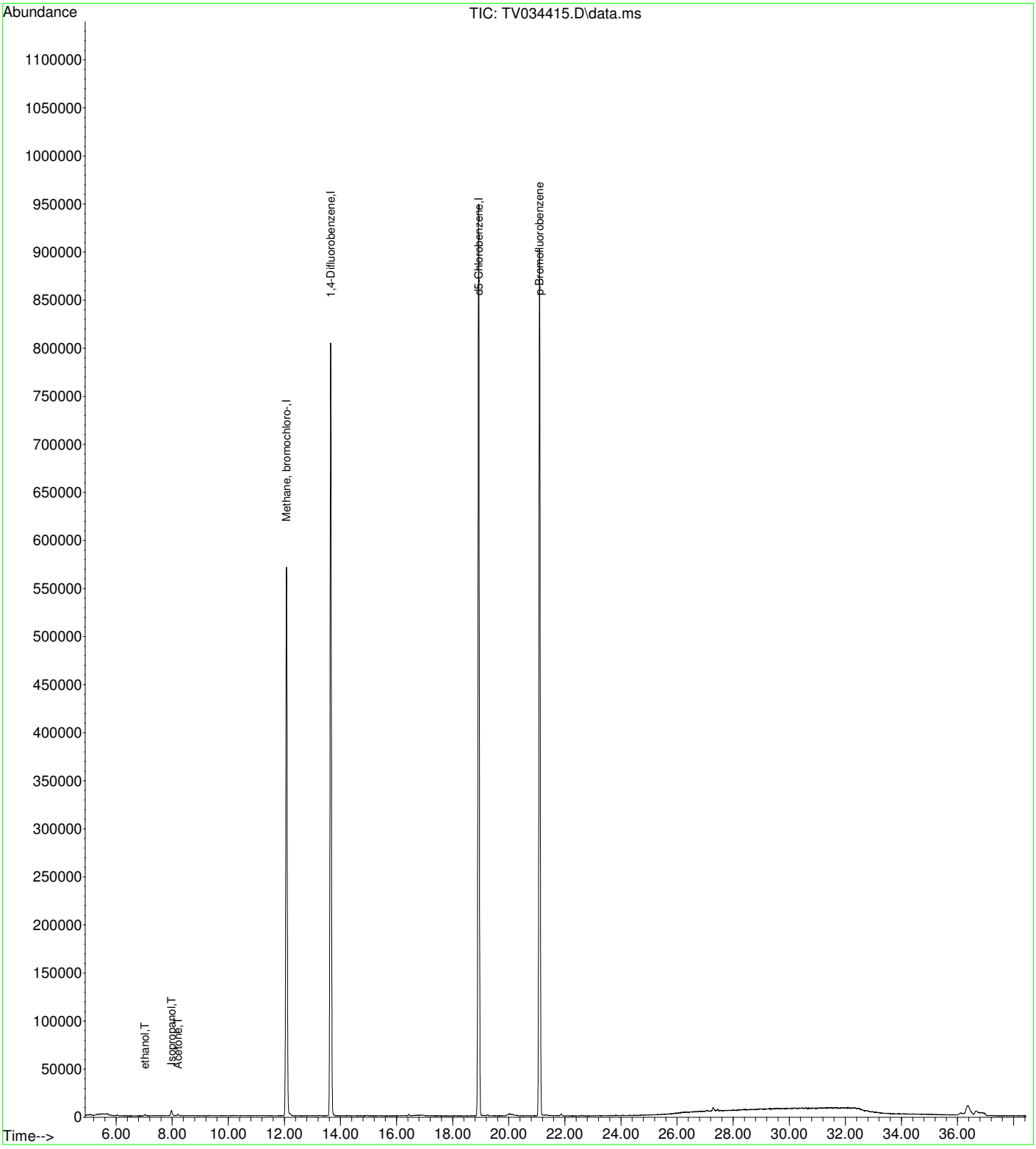
Quant Time: Dec 30 15:20:25 2025
Quant Method : C:\MassHunter\GCMS\1\methods\AIR-3-DEC052025.M
Quant Title : TO15 VOC Analysis
QLast Update : Mon Dec 08 14:43:00 2025
Response via : Initial Calibration

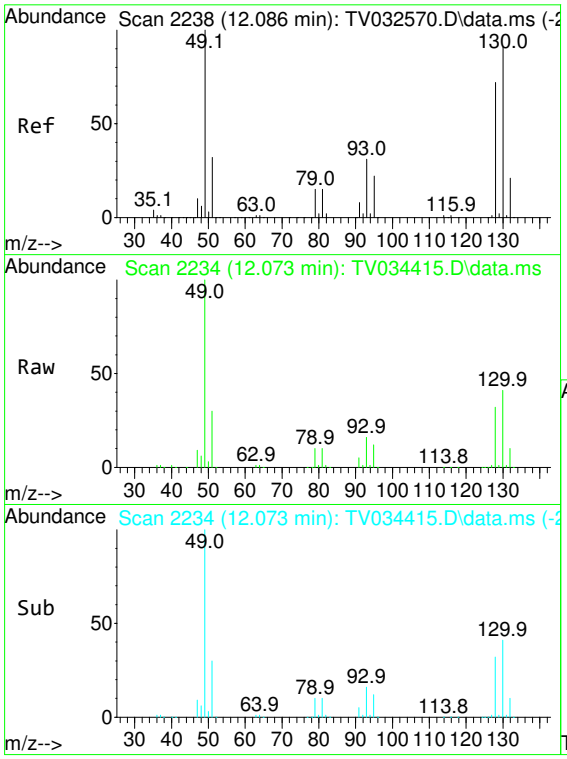
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Methane, bromochloro-	12.073	49	642997	10.00	ppbv	#-0.04
39) 1,4-Difluorobenzene	13.652	114	995979	10.00	ppbv	-0.04
55) d5-Chlorobenzene	18.925	117	866855	10.00	ppbv	#-0.04
Target Compounds						Qvalue
10) ethanol	7.028	45	2750	0.12	ppbv	# 81
13) Isopropanol	7.973	45	13119	0.15	ppbv	# 99
15) Acetone	8.202	43	3673	0.05	ppbv	100
66) p-Bromofluorobenzene	21.095	95	547961	8.61	ppbv	94

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

Data Path : C:\MassHunter\GCMS\1\data\2025\12-DEC\123025\
Data File : TV034415.D
Acq On : 30 Dec 2025 01:45 pm
Operator : YR
Sample : BL51984-BLK1
Misc : QBTO3091525A
ALS Vial : 12 Sample Multiplier: 1
InstName : TO15_AIR3

Quant Time: Dec 30 15:20:25 2025
Quant Method : C:\MassHunter\GCMS\1\methods\AIR-3-DEC052025.M
Quant Title : TO15 VOC Analysis
QLast Update : Mon Dec 08 14:43:00 2025
Response via : Initial Calibration

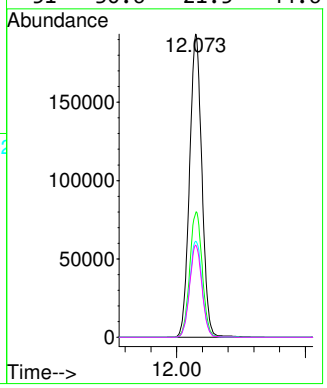


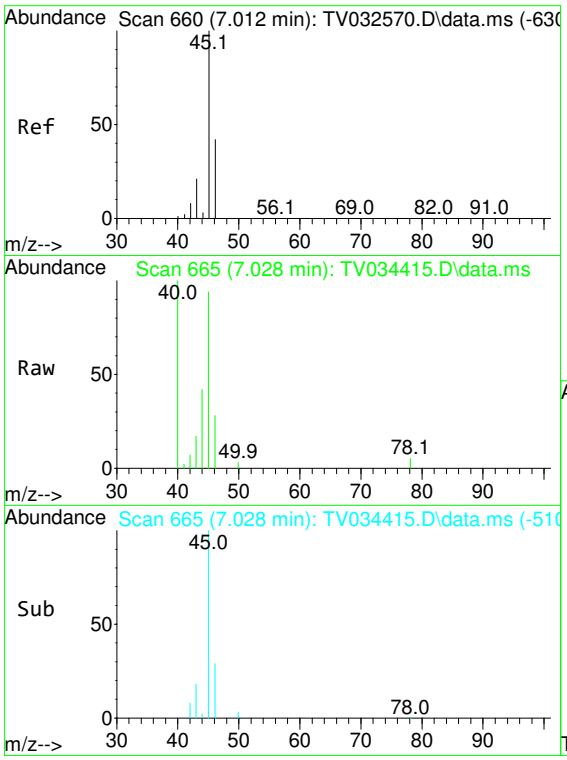


#1
Methane, bromochloro-
Concen: 10.00 ppbv
RT: 12.073 min Scan# 2234
Delta R.T. -0.038 min
Lab File: TV034415.D
Acq: 30 Dec 2025 01:45 pm

Tgt Ion: 49 Resp: 642997

Ion	Ratio	Lower	Upper
49	100		
130	42.0	44.5	92.3#
128	32.4	34.7	72.1#
51	30.6	21.5	44.6

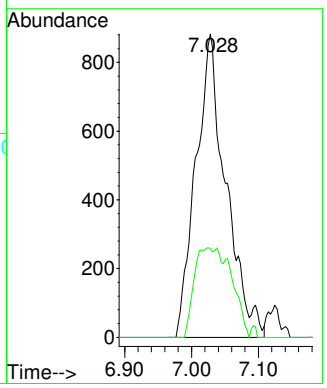


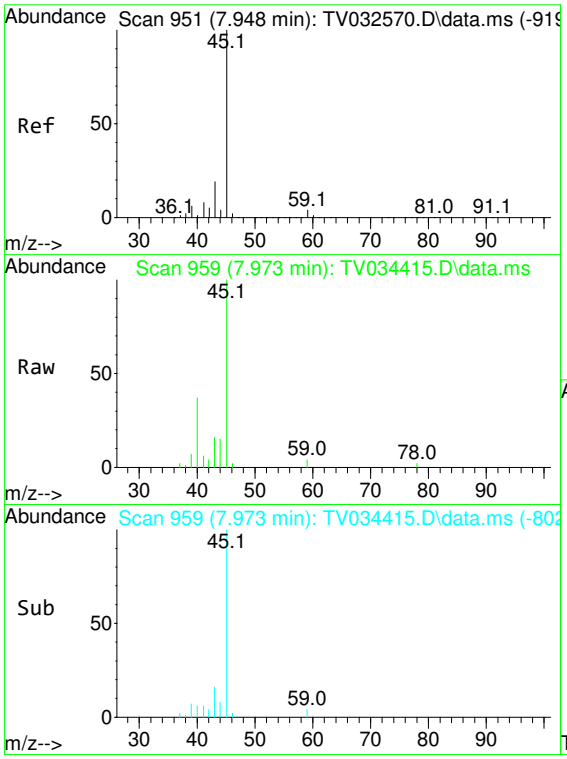


#10
ethanol
Concen: 0.12 ppbv
RT: 7.028 min Scan# 665
Delta R.T. -0.003 min
Lab File: TV034415.D
Acq: 30 Dec 2025 01:45 pm

Tgt Ion: 45 Resp: 2750

Ion	Ratio	Lower	Upper
45	100		
46	37.2	40.0	60.0#

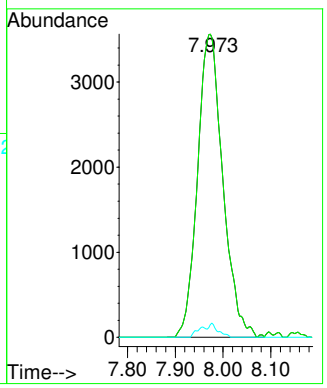


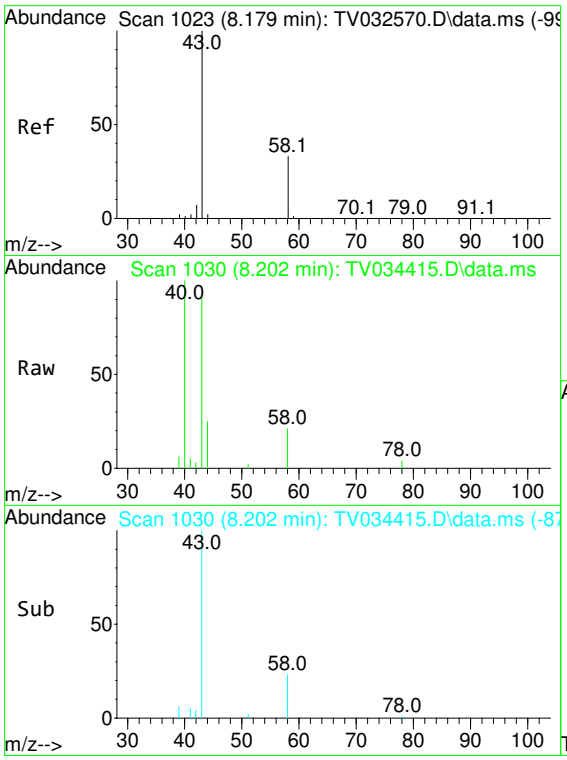


#13
Isopropanol
Concen: 0.15 ppbv
RT: 7.973 min Scan# 959
Delta R.T. 0.004 min
Lab File: TV034415.D
Acq: 30 Dec 2025 01:45 pm

Tgt Ion: 45 Resp: 13119

Ion	Ratio	Lower	Upper
45	100		
45	100.0	65.0	135.0
59	0.0	0.0	8.4

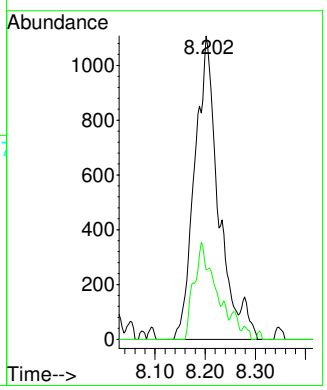


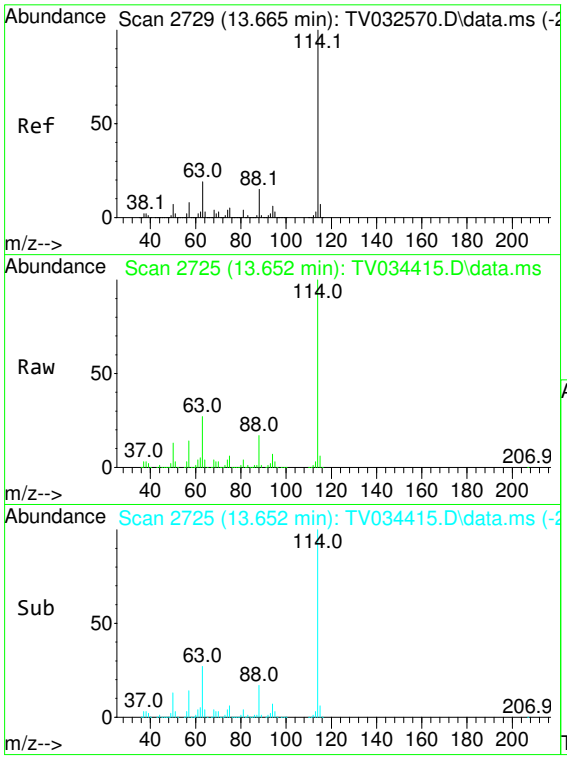


#15
Acetone
Concen: 0.05 ppbv
RT: 8.202 min Scan# 1030
Delta R.T. 0.001 min
Lab File: TV034415.D
Acq: 30 Dec 2025 01:45 pm

Tgt Ion: 43 Resp: 3673

Ion	Ratio	Lower	Upper
43	100		
58	32.1	20.7	42.9

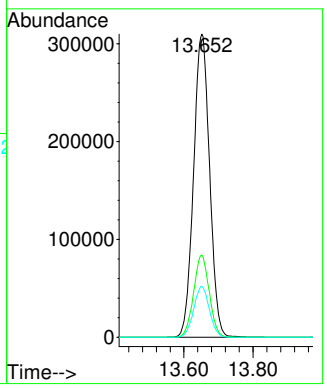


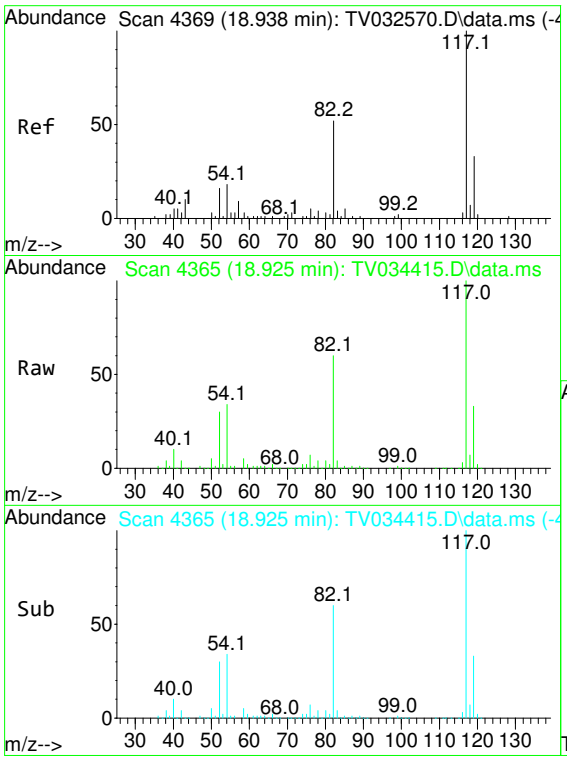


#39
1,4-Difluorobenzene
Concen: 10.00 ppbv
RT: 13.652 min Scan# 2725
Delta R.T. -0.037 min
Lab File: TV034415.D
Acq: 30 Dec 2025 01:45 pm

Tgt Ion:114 Resp: 995979

Ion	Ratio	Lower	Upper
114	100		
63	26.5	14.0	29.2
88	16.5	11.2	23.2

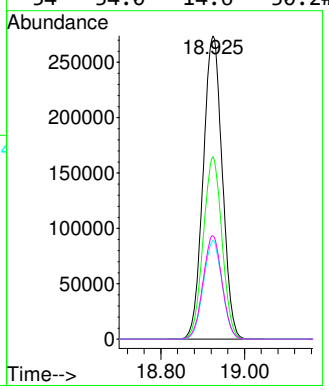


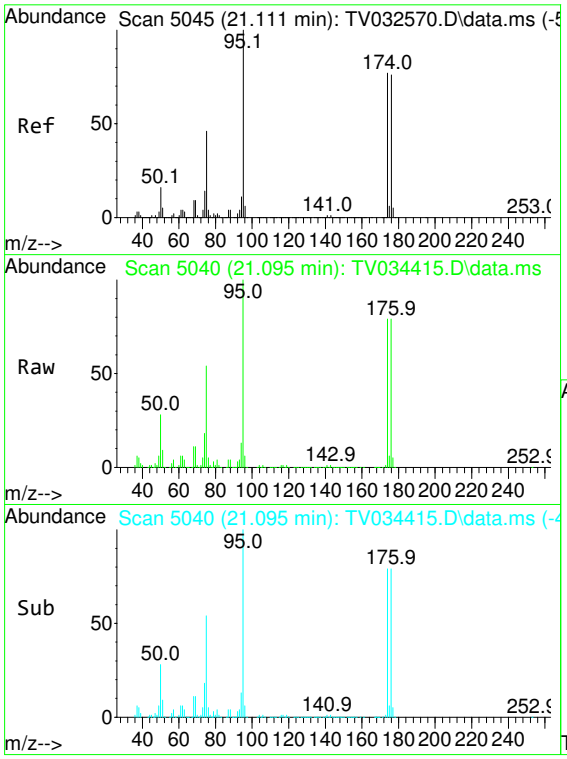


#55
d5-Chlorobenzene
Concen: 10.00 ppbv
RT: 18.925 min Scan# 4365
Delta R.T. -0.037 min
Lab File: TV034415.D
Acq: 30 Dec 2025 01:45 pm

Tgt Ion:117 Resp: 866855

Ion	Ratio	Lower	Upper
117	100		
82	59.3	38.7	80.5
119	32.1	20.3	42.3
54	34.0	14.6	30.2#

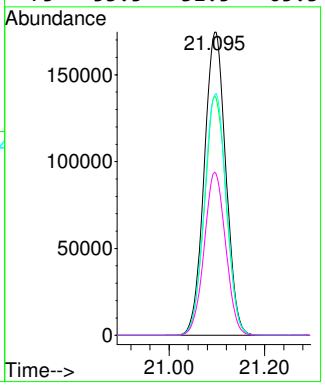




#66
p-Bromofluorobenzene
Concen: 8.61 ppbv
RT: 21.095 min Scan# 5040
Delta R.T. -0.040 min
Lab File: TV034415.D
Acq: 30 Dec 2025 01:45 pm

Tgt Ion: 95 Resp: 547961

Ion	Ratio	Lower	Upper
95	100		
174	79.7	50.0	103.8
176	81.1	48.2	100.2
75	53.5	31.5	65.3



Data Path : C:\MassHunter\GCMS\1\data\2025\12-DEC\123025\
Data File : TV034415.D
Acq On : 30 Dec 2025 01:45 pm
Operator : YR
Sample : BL51984-BLK1
Misc : QBTO3091525A
ALS Vial : 12 Sample Multiplier: 1

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : OFF Filtering: 7
Sampling : 3 Min Area: 500 Area counts
Start Thrs: 0.1 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : C:\MassHunter\GCMS\1\methods\AIR-3-DEC052025.M
Title : TO15 VOC Analysis

Signal : TIC: TV034415.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.999	16	34	40	rBV7	784	2496	0.08%	0.023%
2	5.080	46	59	73	rVB	1418	2995	0.10%	0.028%
3	5.138	73	77	94	rVB2	715	1379	0.05%	0.013%
4	5.359	103	146	154	rBV2	1496	7781	0.26%	0.073%
5	5.414	154	163	169	rBV10	576	1206	0.04%	0.011%
6	5.887	307	310	334	rVB9	473	912	0.03%	0.009%
7	6.031	334	355	379	rVB3	1151	4613	0.15%	0.043%
8	6.147	379	391	406	rBV7	424	1226	0.04%	0.011%
9	6.250	415	423	433	rVB6	583	1148	0.04%	0.011%
10	7.025	646	664	694	rBV5	1495	5466	0.18%	0.051%
11	7.240	709	731	742	rBV4	443	1570	0.05%	0.015%
12	7.973	934	959	988	rBV2	5410	19525	0.65%	0.182%
13	8.202	1003	1030	1048	rBV3	1667	6122	0.20%	0.057%
14	9.301	1366	1372	1387	rBV7	490	1169	0.04%	0.011%
15	10.002	1579	1590	1609	rVB7	375	915	0.03%	0.009%
16	10.462	1729	1733	1753	rBV3	371	944	0.03%	0.009%
17	11.202	1948	1963	1987	rVB5	511	2080	0.07%	0.019%
18	11.485	2038	2051	2068	rVB7	436	1424	0.05%	0.013%
19	12.073	2197	2234	2308	rVV2	571073	1919049	63.96%	17.913%
20	13.195	2569	2583	2596	rBV6	426	1342	0.04%	0.013%
21	13.256	2596	2602	2620	rVV9	636	1731	0.06%	0.016%
22	13.443	2656	2660	2683	rBV3	503	1096	0.04%	0.010%
23	13.652	2692	2725	2773	rVB	804320	2578566	85.94%	24.070%
24	14.439	2962	2970	2989	rVB5	322	1042	0.03%	0.010%
25	14.960	3109	3132	3154	rVB5	627	2197	0.07%	0.021%
26	16.272	3523	3540	3565	rVB7	611	2953	0.10%	0.028%
27	16.426	3565	3588	3610	rBV5	1646	5824	0.19%	0.054%
28	16.619	3637	3648	3655	rBV8	685	1404	0.05%	0.013%
29	16.854	3706	3721	3730	rBV6	441	1404	0.05%	0.013%
30	16.941	3730	3748	3781	rVB6	920	5359	0.18%	0.050%
31	17.555	3922	3939	3943	rVB5	419	1150	0.04%	0.011%
32	17.873	4021	4038	4045	rBV3	372	939	0.03%	0.009%
33	18.703	4276	4296	4303	rBV6	396	1170	0.04%	0.011%
34	18.925	4333	4365	4396	rBV	948345	3000461	100.00%	28.008%
35	19.105	4411	4421	4432	rVB10	643	1732	0.06%	0.016%
36	19.233	4447	4461	4480	rVB7	1349	4619	0.15%	0.043%
37	20.044	4660	4713	4720	rBV7	2663	15755	0.53%	0.147%
38	20.275	4774	4785	4801	rVB9	956	2889	0.10%	0.027%
39	20.442	4828	4837	4855	rBV7	487	1140	0.04%	0.011%
40	20.857	4954	4966	4984	rVB9	493	1284	0.04%	0.012%

Data Path : C:\MassHunter\GCMS\1\data\2025\12-DEC\123025\
Data File : TV034415.D
Acq On : 30 Dec 2025 01:45 pm
Operator : YR
Sample : BL51984-BLK1
Misc : QBTO3091525A
ALS Vial : 12 Sample Multiplier: 1

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : OFF Filtering: 7
Sampling : 3 Min Area: 500 Area counts
Start Thrs: 0.1 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : C:\MassHunter\GCMS\1\methods\AIR-3-DEC052025.M
Title : TO15 VOC Analysis

41	21.095	5005	5040	5071	rBV2	902044	2845909	94.85%	26.565%
42	21.349	5101	5119	5137	rVB2	1033	3897	0.13%	0.036%
43	21.677	5200	5221	5236	rVB2	522	1907	0.06%	0.018%
44	21.738	5236	5240	5257	rVB10	575	1426	0.05%	0.013%
45	21.867	5257	5280	5305	rBV10	2056	8364	0.28%	0.078%
46	22.590	5485	5505	5524	rBV8	824	2529	0.08%	0.024%
47	22.764	5542	5559	5587	rVB7	514	2358	0.08%	0.022%
48	22.937	5599	5613	5620	rVV6	411	902	0.03%	0.008%
49	23.002	5620	5633	5641	rVV7	415	1124	0.04%	0.010%
50	23.191	5665	5692	5698	rVV7	464	1637	0.05%	0.015%
51	23.613	5815	5823	5851	rVB10	679	1968	0.07%	0.018%
52	23.728	5851	5859	5872	rBV9	330	1005	0.03%	0.009%
53	23.818	5872	5887	5908	rVB9	966	2712	0.09%	0.025%
54	24.056	5947	5961	5974	rBV9	783	2257	0.08%	0.021%
55	24.314	6028	6041	6049	rBV9	516	1053	0.04%	0.010%
56	24.471	6073	6090	6100	rBV9	558	1334	0.04%	0.012%
57	24.613	6121	6134	6142	rBV9	368	899	0.03%	0.008%
58	25.130	6280	6295	6307	rBV9	454	1546	0.05%	0.014%
59	25.285	6334	6343	6361	rBV9	647	1354	0.05%	0.013%
60	25.420	6376	6385	6391	rBV10	623	953	0.03%	0.009%
61	25.484	6391	6405	6412	rVV10	626	1497	0.05%	0.014%
62	25.526	6412	6418	6430	rVB10	692	1225	0.04%	0.011%
63	25.616	6430	6446	6454	rBV10	801	1827	0.06%	0.017%
64	25.780	6469	6497	6505	rVB10	576	1836	0.06%	0.017%
65	25.828	6505	6512	6523	rBV10	756	1624	0.05%	0.015%
66	25.998	6553	6565	6571	rBV10	988	2205	0.07%	0.021%
67	26.140	6604	6609	6625	rBV10	1237	3456	0.12%	0.032%
68	26.211	6628	6631	6640	rBV9	805	1294	0.04%	0.012%
69	26.519	6706	6727	6736	rBV9	572	2031	0.07%	0.019%
70	26.960	6859	6864	6877	rVB9	820	1452	0.05%	0.014%
71	27.059	6880	6895	6925	rBV9	1484	5639	0.19%	0.053%
72	27.291	6949	6967	6988	rBV9	3859	13884	0.46%	0.130%
73	27.458	7006	7019	7030	rVB9	1856	4231	0.14%	0.039%
74	27.558	7045	7050	7057	rBV10	666	927	0.03%	0.009%
75	28.182	7237	7244	7249	rBV10	1199	1393	0.05%	0.013%
76	28.439	7321	7324	7333	rVB10	1231	1925	0.06%	0.018%
77	30.117	7843	7846	7861	rBV10	771	1708	0.06%	0.016%
78	30.288	7894	7899	7906	rBV9	932	1300	0.04%	0.012%
79	31.580	8296	8301	8311	rBV9	1127	2057	0.07%	0.019%
80	32.722	8647	8656	8677	rBV9	1403	4960	0.17%	0.046%
81	33.185	8794	8800	8812	rVB9	684	969	0.03%	0.009%
82	33.355	8848	8853	8872	rVB9	627	1335	0.04%	0.012%
83	33.863	9004	9011	9022	rBV9	693	1201	0.04%	0.011%

Data Path : C:\MassHunter\GCMS\1\data\2025\12-DEC\123025\
Data File : TV034415.D
Acq On : 30 Dec 2025 01:45 pm
Operator : YR
Sample : BL51984-BLK1
Misc : QBTO3091525A
ALS Vial : 12 Sample Multiplier: 1

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : OFF Filtering: 7
Sampling : 3 Min Area: 500 Area counts
Start Thrs: 0.1 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : C:\MassHunter\GCMS\1\methods\AIR-3-DEC052025.M
Title : TO15 VOC Analysis

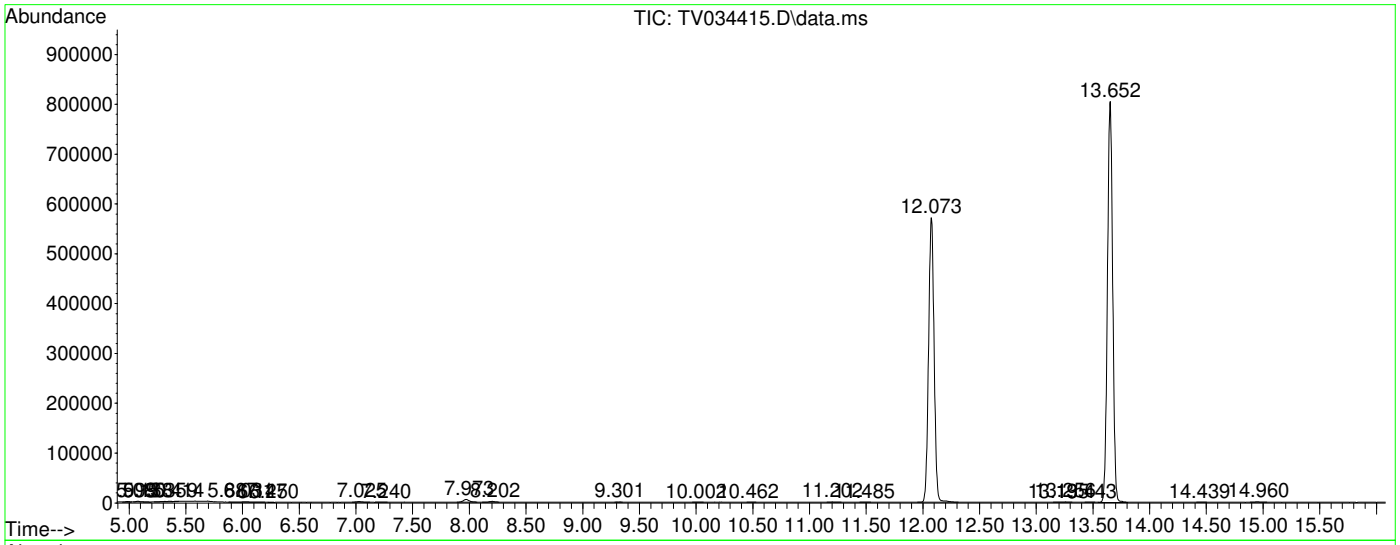
84	34.072	9070	9076	9088	rVB9	557	1058	0.04%	0.010%
85	34.149	9097	9100	9109	rBV9	553	905	0.03%	0.008%
86	34.201	9109	9116	9127	rBV9	559	1211	0.04%	0.011%
87	34.413	9172	9182	9193	rVB9	668	1767	0.06%	0.016%
88	34.461	9193	9197	9205	rVB8	623	895	0.03%	0.008%
89	34.696	9259	9270	9277	rVB8	580	1160	0.04%	0.011%
90	34.760	9277	9290	9298	rBV8	545	1057	0.04%	0.010%
91	34.844	9307	9316	9325	rVB8	536	1147	0.04%	0.011%
92	35.024	9361	9372	9385	rVB8	880	2248	0.07%	0.021%
93	35.098	9385	9395	9400	rBV8	611	1111	0.04%	0.010%
94	35.992	9667	9673	9679	rBV8	608	942	0.03%	0.009%
95	36.114	9679	9711	9730	rBV	1978	11672	0.39%	0.109%
96	36.377	9751	9793	9850	rVB2	9539	92205	3.07%	0.861%
97	36.660	9850	9881	9916	rBV2	3839	30309	1.01%	0.283%
98	37.191	10033	10046	10063	rVB2	670	1916	0.06%	0.018%
99	37.410	10108	10114	10135	rBV10	429	918	0.03%	0.009%
100	37.728	10195	10213	10225	rVB10	461	1272	0.04%	0.012%

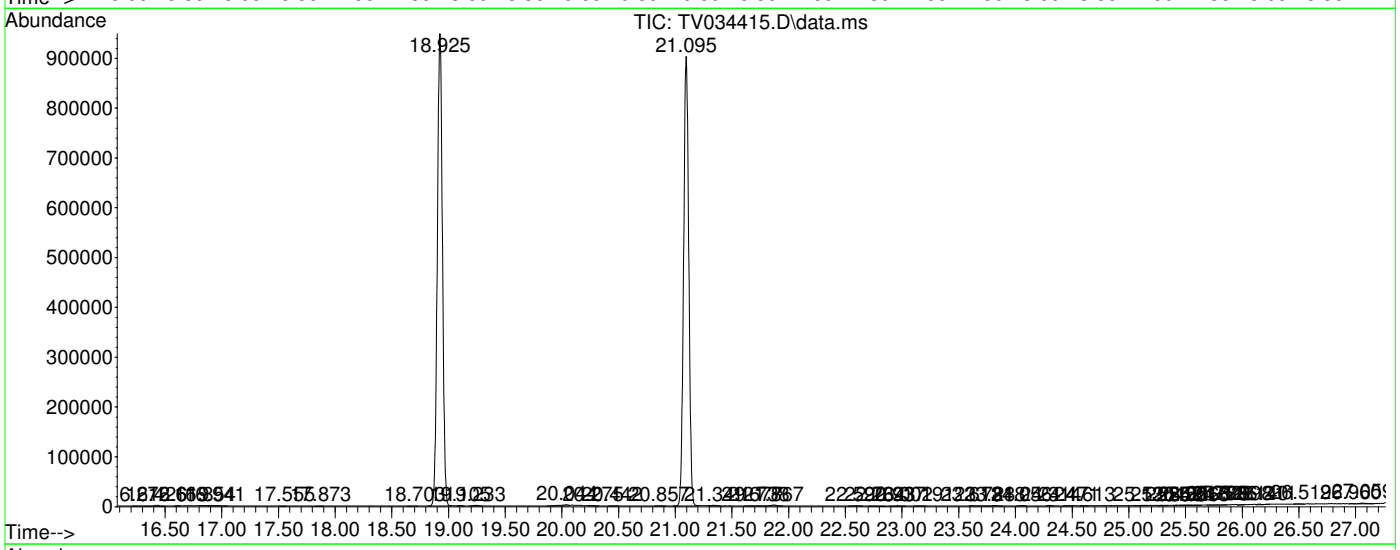
Sum of corrected areas: 10712980

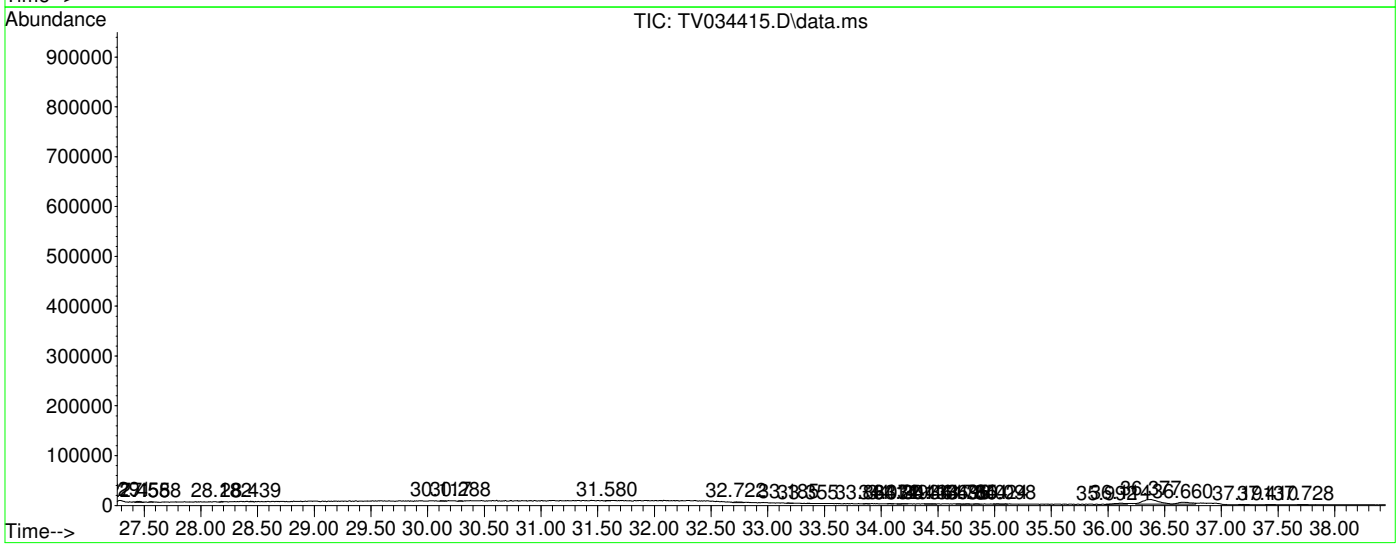
Data Path : C:\MassHunter\GCMS\1\data\2025\12-DEC\123025\
Data File : TV034415.D
Acq On : 30 Dec 2025 01:45 pm
Operator : YR
Sample : BL51984-BLK1
Misc : QBTO3091525A
ALS Vial : 12 Sample Multiplier: 1

Quant Method : C:\MassHunter\GCMS\1\methods\AIR-3-DEC052025.M
Quant Title : TO15 VOC Analysis

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: rteint.p







Data Path : C:\MassHunter\GCMS\1\data\2025\12-DEC\123025\
Data File : TV034415.D
Acq On : 30 Dec 2025 01:45 pm
Operator : YR
Sample : BL51984-BLK1
Misc : QBTO3091525A
ALS Vial : 12 Sample Multiplier: 1

Quant Method : C:\MassHunter\GCMS\1\methods\AIR-3-DEC052025.M
Quant Title : TO15 VOC Analysis

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: rteint.p

No Library Search Compounds Detected
****

Data Path : C:\MassHunter\GCMS\1\data\2025\12-DEC\123025\
Data File : TV034415.D
Acq On : 30 Dec 2025 01:45 pm
Operator : YR
Sample : BL51984-BLK1
Misc : QBTO3091525A
ALS Vial : 12 Sample Multiplier: 1

Quant Method : C:\MassHunter\GCMS\1\methods\AIR-3-DEC052025.M
Quant Title : TO15 VOC Analysis

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: rteint.p

					|--Internal Standard---|		
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc

FORM V **MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK**

EPA TO-15

Laboratory:	ALS Environmental - Stratford	SDG:	25L1231
Client:	Langan Engineering & Environmental Services (NYC)	Project:	170390601
Lab File ID:	TV034037.D	Injection Date:	12/05/25
Instrument ID:	TO15_AIR3	Injection Time:	16:22
Sequence:	S5L0903	Lab Sample ID:	S5L0903-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	8 - 40% of 95	27.2	PASS
75	30 - 66% of 95	53.5	PASS
95	Base peak, 100% relative abundance	100	PASS
96	5 - 9% of 95	6.52	PASS
173	Less than 2% of 174	1.17	PASS
174	50 - 120% of 95	79.1	PASS
175	4 - 9% of 174	7.84	PASS
176	93 - 101% of 174	101	PASS
177	5 - 9% of 176	6.77	PASS

FORM V **MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK**

EPA TO-15

Laboratory:	ALS Environmental - Stratford	SDG:	25L1231
Client:	Langan Engineering & Environmental Services (NYC)	Project:	170390601
Lab File ID:	TV034379.D	Injection Date:	12/29/25
Instrument ID:	TO15_AIR3	Injection Time:	09:28
Sequence:	S5L2929	Lab Sample ID:	S5L2929-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	8 - 40% of 95	29.8	PASS
75	30 - 66% of 95	54.8	PASS
95	Base peak, 100% relative abundance	100	PASS
96	5 - 9% of 95	6.57	PASS
173	Less than 2% of 174	1.11	PASS
174	50 - 120% of 95	75	PASS
175	4 - 9% of 174	7.96	PASS
176	93 - 101% of 174	98.3	PASS
177	5 - 9% of 176	7.33	PASS

FORM V **MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK**

EPA TO-15

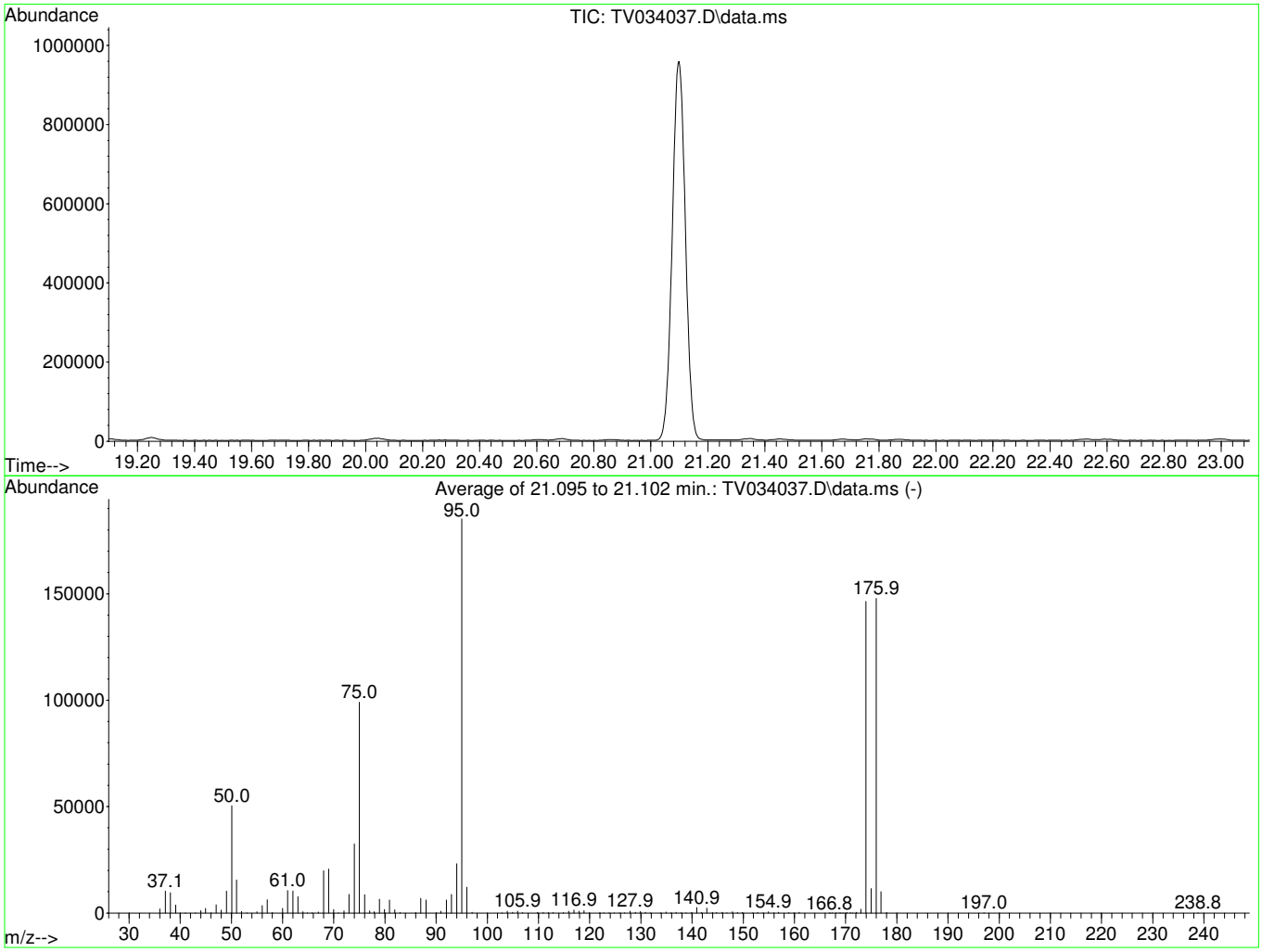
Laboratory:	ALS Environmental - Stratford	SDG:	25L1231
Client:	Langan Engineering & Environmental Services (NYC)	Project:	170390601
Lab File ID:	TV034411.D	Injection Date:	12/30/25
Instrument ID:	TO15_AIR3	Injection Time:	10:14
Sequence:	S5L3118	Lab Sample ID:	S5L3118-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	8 - 40% of 95	28.1	PASS
75	30 - 66% of 95	53.4	PASS
95	Base peak, 100% relative abundance	100	PASS
96	5 - 9% of 95	6.62	PASS
173	Less than 2% of 174	1.06	PASS
174	50 - 120% of 95	79.6	PASS
175	4 - 9% of 174	7.63	PASS
176	93 - 101% of 174	101	PASS
177	5 - 9% of 176	6.4	PASS

Data Path : C:\MassHunter\GCMS\1\data\2025\12-DEC\120525\
Data File : TV034037.D
Acq On : 05 Dec 2025 04:22 pm
Operator : YR
Sample : SEQ-TUN1
Misc : QBTO3091525A
ALS Vial : 12 Sample Multiplier: 1
InstName : TO15_AIR3

Integration File: rteint.p

Method : C:\MassHunter\GCMS\1\methods\AIR-3-DEC052025.M
Title : TO15 VOC Analysis
Last Update : Mon Dec 08 14:43:00 2025



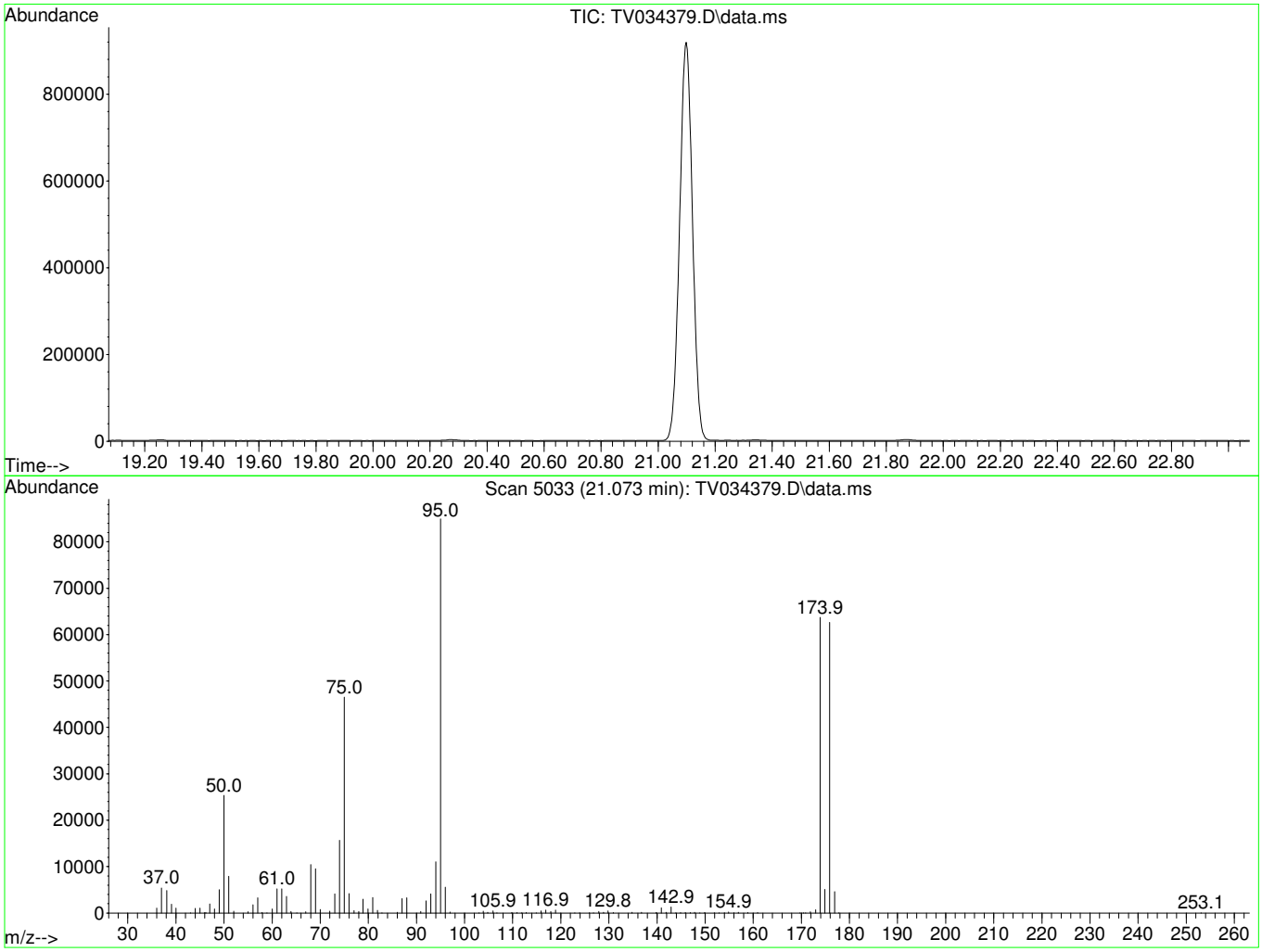
Spectrum Information: Average of 21.095 to 21.102 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	27.2	50440	PASS
75	95	30	66	53.5	99104	PASS
95	95	100	100	100.0	185195	PASS
96	95	5	9	6.5	12082	PASS
173	174	0.00	2	1.2	1720	PASS
174	95	50	120	79.1	146453	PASS
175	174	4	9	7.8	11486	PASS
176	174	93	101	100.9	147776	PASS
177	176	5	9	6.8	10004	PASS

Data Path : C:\MassHunter\GCMS\1\data\2025\12-DEC\122925\
Data File : TV034379.D
Acq On : 29 Dec 2025 09:28 am
Operator : YR
Sample : SEQ-TUN1
Misc : QBTO3091525A
ALS Vial : 12 Sample Multiplier: 1
InstName : TO15_AIR3

Integration File: rteint.p

Method : C:\MassHunter\GCMS\1\methods\AIR-3-DEC052025.M
Title : TO15 VOC Analysis
Last Update : Mon Dec 08 14:43:00 2025



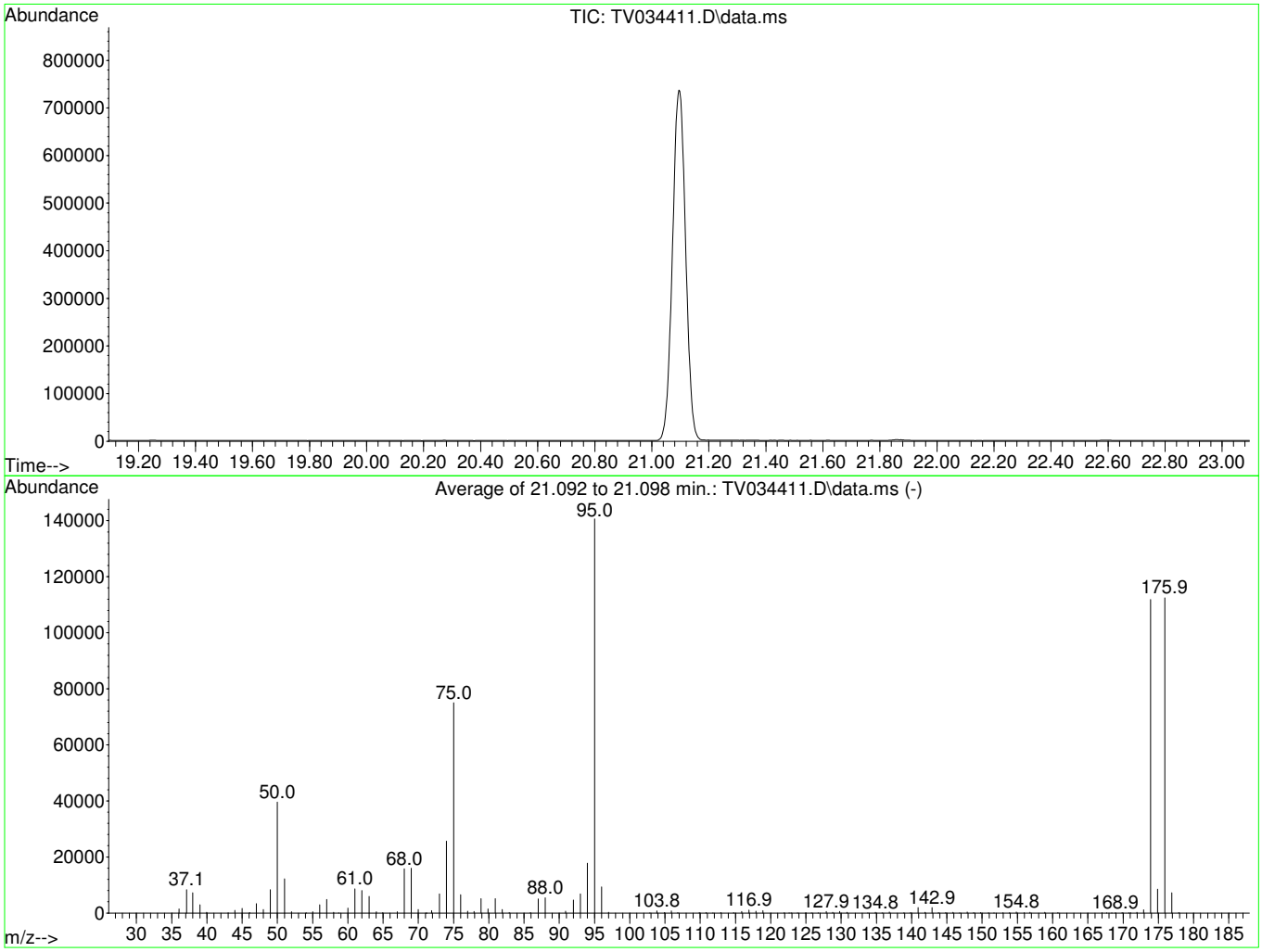
Spectrum Information: Scan 5033

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	29.8	25328	PASS
75	95	30	66	54.8	46512	PASS
95	95	100	100	100.0	84944	PASS
96	95	5	9	6.6	5583	PASS
173	174	0.00	2	1.1	709	PASS
174	95	50	120	75.0	63712	PASS
175	174	4	9	8.0	5070	PASS
176	174	93	101	98.3	62656	PASS
177	176	5	9	7.3	4595	PASS

Data Path : C:\MassHunter\GCMS\1\data\2025\12-DEC\123025\
Data File : TV034411.D
Acq On : 30 Dec 2025 10:14 am
Operator : YR
Sample : SEQ-TUN1
Misc : QBTO3091525A
ALS Vial : 12 Sample Multiplier: 1
InstName : TO15_AIR3

Integration File: rteint.p

Method : C:\MassHunter\GCMS\1\methods\AIR-3-DEC052025.M
Title : TO15 VOC Analysis
Last Update : Mon Dec 08 14:43:00 2025



Spectrum Information: Average of 21.092 to 21.098 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	28.1	39536	PASS
75	95	30	66	53.4	75067	PASS
95	95	100	100	100.0	140629	PASS
96	95	5	9	6.6	9312	PASS
173	174	0.00	2	1.1	1188	PASS
174	95	50	120	79.6	111877	PASS
175	174	4	9	7.6	8533	PASS
176	174	93	101	100.5	112456	PASS
177	176	5	9	6.4	7201	PASS

FORM V

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA TO-15

Laboratory:	ALS Environmental - Stratford	SDG:	25L1231
Client:	Langan Engineering & Environmental Services (NYC)	Project:	170390601
Sequence:	S5L0903	Instrument:	TO15_AIR3
		Calibration:	SL50019

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	S5L0903-TUN1	TV034037.D	12/05/25 16:22
Cal Standard	S5L0903-CAL1	TV034038.D	12/05/25 17:08
Cal Standard	S5L0903-CAL2	TV034039.D	12/05/25 17:54
Cal Standard	S5L0903-CAL3	TV034040.D	12/05/25 18:40
Cal Standard	S5L0903-CAL4	TV034041.D	12/05/25 19:26
Cal Standard	S5L0903-CAL5	TV034042.D	12/05/25 20:12
Cal Standard	S5L0903-CAL6	TV034043.D	12/05/25 20:58
Cal Standard	S5L0903-CAL7	TV034044.D	12/05/25 21:44
Cal Standard	S5L0903-CAL8	TV034045.D	12/05/25 22:30
Cal Standard	S5L0903-CAL9	TV034046.D	12/05/25 23:16
Cal Standard	S5L0903-CALA	TV034047.D	12/06/25 00:02
Secondary Cal Check	S5L0903-SCV1	TV034051.D	12/06/25 03:07

FORM V

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA TO-15

Laboratory:	ALS Environmental - Stratford	SDG:	25L1231
Client:	Langan Engineering & Environmental Services (NYC)	Project:	170390601
Sequence:	S5L2929	Instrument:	TO15_AIR3
		Calibration:	SL50019

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	S5L2929-TUN1	TV034379.D	12/29/25 09:28
Calibration Check	S5L2929-CCV1	TV034380.D	12/29/25 10:14
LCS	BL51829-BS1	TV034381.D	12/29/25 10:59
Blank	BL51829-BLK1	TV034383.D	12/29/25 12:31
SSV01_121925	25L1231-01	TV034402.D	12/30/25 03:19
IA01_121925	25L1231-02	TV034403.D	12/30/25 04:05
AA01_121925	25L1231-03	TV034404.D	12/30/25 04:51

FORM V

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA TO-15

Laboratory:	ALS Environmental - Stratford	SDG:	25L1231
Client:	Langan Engineering & Environmental Services (NYC)	Project:	170390601
Sequence:	S5L3118	Instrument:	TO15_AIR3
		Calibration:	SL50019

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	S5L3118-TUN1	TV034411.D	12/30/25 10:14
Calibration Check	S5L3118-CCV1	TV034412.D	12/30/25 11:00
LCS	BL51984-BS1	TV034413.D	12/30/25 11:46
Blank	BL51984-BLK1	TV034415.D	12/30/25 13:45
Low Cal Check	S5L3118-LCV1	TV034416.D	12/30/25 14:30
Low Cal Check	S5L3118-LCV2	TV034417.D	12/30/25 15:16
IA01_121925	25L1231-02RE1	TV034424.D	12/30/25 20:38

FORM VIII **INTERNAL STANDARD AREA AND RT SUMMARY**

EPA TO-15

Laboratory:	ALS Environmental - Stratford	SDG:	25L1231
Client:	Langan Engineering & Environmental Services (NYC)	Project:	170390601
Sequence:	S5L2929	Instrument:	TO15_AIR3
		Calibration:	SL50019

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
SSV01_121925 (25L1231-01)			Lab File ID: TV034402.D			Analyzed: 12/30/25 03:19			
ISTD: Bromochloromethane	562931	12.076	590948	12.076	95	60 - 140	0.0000	+/-0.33	
ISTD: 1,4-Difluorobenzene	836797	13.655	868844	13.655	96	60 - 140	0.0000	+/-0.33	
ISTD: d5-Chlorobenzene	721384	18.925	793092	18.928	91	60 - 140	-0.0030	+/-0.33	
IA01_121925 (25L1231-02)			Lab File ID: TV034403.D			Analyzed: 12/30/25 04:05			
ISTD: Bromochloromethane	530825	12.08	590948	12.076	90	60 - 140	0.0040	+/-0.33	
ISTD: 1,4-Difluorobenzene	907224	13.655	868844	13.655	104	60 - 140	0.0000	+/-0.33	
ISTD: d5-Chlorobenzene	799512	18.925	793092	18.928	101	60 - 140	-0.0030	+/-0.33	
AA01_121925 (25L1231-03)			Lab File ID: TV034404.D			Analyzed: 12/30/25 04:51			
ISTD: Bromochloromethane	537027	12.073	590948	12.076	91	60 - 140	-0.0030	+/-0.33	
ISTD: 1,4-Difluorobenzene	939050	13.655	868844	13.655	108	60 - 140	0.0000	+/-0.33	
ISTD: d5-Chlorobenzene	802538	18.925	793092	18.928	101	60 - 140	-0.0030	+/-0.33	

FORM VIII **INTERNAL STANDARD AREA AND RT SUMMARY**

EPA TO-15

Laboratory:	ALS Environmental - Stratford	SDG:	25L1231
Client:	Langan Engineering & Environmental Services (NYC)	Project:	170390601
Sequence:	S5L3118	Instrument:	TO15_AIR3
		Calibration:	SL50019

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
IA01_121925 (25L1231-02RE1)			Lab File ID: TV034424.D			Analyzed: 12/30/25 20:38			
ISTD: Bromochloromethane	537582	12.073	593069	12.076	91	60 - 140	-0.0030	+/-0.33	
ISTD: 1,4-Difluorobenzene	779456	13.648	889429	13.655	88	60 - 140	-0.0070	+/-0.33	
ISTD: d5-Chlorobenzene	678045	18.925	807685	18.925	84	60 - 140	0.0000	+/-0.33	

FORM VIII **INTERNAL STANDARD AREA AND RT SUMMARY**

EPA TO-15

Laboratory: ALS Environmental - Stratford
SDG: 25L1231
Client: Langan Engineering & Environmental Services (NYC)
Project: 170390601
Sequence: S5L0903
Instrument: TO15_AIR3
Calibration: SL50019

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Cal Standard (S5L0903-CAL1)			Lab File ID: TV034038.D			Analyzed: 12/05/25 17:08			
ISTD: Bromochloromethane	692891	12.08	642992	12.086	108	60 - 140	-0.0060	+/-0.33	
ISTD: 1,4-Difluorobenzene	1119081	13.658	1035578	13.661	108	60 - 140	-0.0030	+/-0.33	
ISTD: d5-Chlorobenzene	948898	18.928	926247	18.931	102	60 - 140	-0.0030	+/-0.33	
Cal Standard (S5L0903-CAL2)			Lab File ID: TV034039.D			Analyzed: 12/05/25 17:54			
ISTD: Bromochloromethane	674997	12.08	642992	12.086	105	60 - 140	-0.0060	+/-0.33	
ISTD: 1,4-Difluorobenzene	1071981	13.658	1035578	13.661	104	60 - 140	-0.0030	+/-0.33	
ISTD: d5-Chlorobenzene	917175	18.925	926247	18.931	99	60 - 140	-0.0060	+/-0.33	
Cal Standard (S5L0903-CAL3)			Lab File ID: TV034040.D			Analyzed: 12/05/25 18:40			
ISTD: Bromochloromethane	668960	12.076	642992	12.086	104	60 - 140	-0.0100	+/-0.33	
ISTD: 1,4-Difluorobenzene	1062594	13.658	1035578	13.661	103	60 - 140	-0.0030	+/-0.33	
ISTD: d5-Chlorobenzene	909783	18.928	926247	18.931	98	60 - 140	-0.0030	+/-0.33	
Cal Standard (S5L0903-CAL4)			Lab File ID: TV034041.D			Analyzed: 12/05/25 19:26			
ISTD: Bromochloromethane	673054	12.076	642992	12.086	105	60 - 140	-0.0100	+/-0.33	
ISTD: 1,4-Difluorobenzene	1062632	13.658	1035578	13.661	103	60 - 140	-0.0030	+/-0.33	
ISTD: d5-Chlorobenzene	922248	18.928	926247	18.931	100	60 - 140	-0.0030	+/-0.33	
Cal Standard (S5L0903-CAL5)			Lab File ID: TV034042.D			Analyzed: 12/05/25 20:12			
ISTD: Bromochloromethane	662976	12.079	642992	12.086	103	60 - 140	-0.0070	+/-0.33	
ISTD: 1,4-Difluorobenzene	1034095	13.658	1035578	13.661	100	60 - 140	-0.0030	+/-0.33	
ISTD: d5-Chlorobenzene	902871	18.928	926247	18.931	97	60 - 140	-0.0030	+/-0.33	
Cal Standard (S5L0903-CAL6)			Lab File ID: TV034043.D			Analyzed: 12/05/25 20:58			
ISTD: Bromochloromethane	649460	12.083	642992	12.086	101	60 - 140	-0.0030	+/-0.33	
ISTD: 1,4-Difluorobenzene	1019575	13.661	1035578	13.661	98	60 - 140	0.0000	+/-0.33	
ISTD: d5-Chlorobenzene	907096	18.928	926247	18.931	98	60 - 140	-0.0030	+/-0.33	
Cal Standard (S5L0903-CAL7)			Lab File ID: TV034044.D			Analyzed: 12/05/25 21:44			
ISTD: Bromochloromethane	642992	12.086				60 - 140	12.0860	+/-0.33	*
ISTD: 1,4-Difluorobenzene	1035578	13.661				60 - 140	13.6610	+/-0.33	*
ISTD: d5-Chlorobenzene	926247	18.931				60 - 140	18.9310	+/-0.33	*
Cal Standard (S5L0903-CAL8)			Lab File ID: TV034045.D			Analyzed: 12/05/25 22:30			
ISTD: Bromochloromethane	651842	12.086	642992	12.086	101	60 - 140	0.0000	+/-0.33	
ISTD: 1,4-Difluorobenzene	1066242	13.661	1035578	13.661	103	60 - 140	0.0000	+/-0.33	
ISTD: d5-Chlorobenzene	960257	18.931	926247	18.931	104	60 - 140	0.0000	+/-0.33	

FORM VIII **INTERNAL STANDARD AREA AND RT SUMMARY**

EPA TO-15

Laboratory:	ALS Environmental - Stratford	SDG:	25L1231
Client:	Langan Engineering & Environmental Services (NYC)	Project:	170390601
Sequence:	S5L0903	Instrument:	TO15_AIR3
		Calibration:	SL50019

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Cal Standard (S5L0903-CAL9)			Lab File ID: TV034046.D			Analyzed: 12/05/25 23:16			
ISTD: Bromochloromethane	640043	12.086	642992	12.086	100	60 - 140	0.0000	+/-0.33	
ISTD: 1,4-Difluorobenzene	1074646	13.665	1035578	13.661	104	60 - 140	0.0040	+/-0.33	
ISTD: d5-Chlorobenzene	954845	18.931	926247	18.931	103	60 - 140	0.0000	+/-0.33	
Cal Standard (S5L0903-CALA)			Lab File ID: TV034047.D			Analyzed: 12/06/25 00:02			
ISTD: Bromochloromethane	629985	12.086	642992	12.086	98	60 - 140	0.0000	+/-0.33	
ISTD: 1,4-Difluorobenzene	1092924	13.665	1035578	13.661	106	60 - 140	0.0040	+/-0.33	
ISTD: d5-Chlorobenzene	963817	18.931	926247	18.931	104	60 - 140	0.0000	+/-0.33	
Secondary Cal Check (S5L0903-SCV1)			Lab File ID: TV034051.D			Analyzed: 12/06/25 03:07			
ISTD: Bromochloromethane	622082	12.083	642992	12.086	97	60 - 140	-0.0030	+/-0.33	
ISTD: 1,4-Difluorobenzene	1022754	13.658	1035578	13.661	99	60 - 140	-0.0030	+/-0.33	
ISTD: d5-Chlorobenzene	915755	18.928	926247	18.931	99	60 - 140	-0.0030	+/-0.33	

FORM VIII **INTERNAL STANDARD AREA AND RT SUMMARY**

EPA TO-15

Laboratory: ALS Environmental - Stratford
SDG: 25L1231
Client: Langan Engineering & Environmental Services (NYC)
Project: 170390601
Sequence: S5L2929
Instrument: TO15_AIR3
Calibration: SL50019

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (S5L2929-CCV1)			Lab File ID: TV034380.D			Analyzed: 12/29/25 10:14			
ISTD: Bromochloromethane	590948	12.076				60 - 140	12.0760	+/-0.33	
ISTD: 1,4-Difluorobenzene	868844	13.655				60 - 140	13.6550	+/-0.33	
ISTD: d5-Chlorobenzene	793092	18.928				60 - 140	18.9280	+/-0.33	
LCS (BL51829-BS1)			Lab File ID: TV034381.D			Analyzed: 12/29/25 10:59			
ISTD: Bromochloromethane	569099	12.079	590948	12.076	96	60 - 140	0.0030	+/-0.33	
ISTD: 1,4-Difluorobenzene	860049	13.655	868844	13.655	99	60 - 140	0.0000	+/-0.33	
ISTD: d5-Chlorobenzene	778778	18.928	793092	18.928	98	60 - 140	0.0000	+/-0.33	
Blank (BL51829-BLK1)			Lab File ID: TV034383.D			Analyzed: 12/29/25 12:31			
ISTD: Bromochloromethane	590451	12.076	590948	12.076	100	60 - 140	0.0000	+/-0.33	
ISTD: 1,4-Difluorobenzene	903144	13.652	868844	13.655	104	60 - 140	-0.0030	+/-0.33	
ISTD: d5-Chlorobenzene	796266	18.925	793092	18.928	100	60 - 140	-0.0030	+/-0.33	

FORM VIII **INTERNAL STANDARD AREA AND RT SUMMARY**

EPA TO-15

Laboratory: ALS Environmental - Stratford
Client: Langan Engineering & Environmental Services (NYC)
Sequence: S5L3118

SDG: 25L1231
Project: 170390601
Instrument: TO15_AIR3
Calibration: SL50019

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (S5L3118-CCV1)			Lab File ID: TV034412.D			Analyzed: 12/30/25 11:00			
ISTD: Bromochloromethane	593069	12.076				60 - 140	12.0760	+/-0.33	
ISTD: 1,4-Difluorobenzene	889429	13.655				60 - 140	13.6550	+/-0.33	
ISTD: d5-Chlorobenzene	807685	18.925				60 - 140	18.9250	+/-0.33	
LCS (BL51984-BS1)			Lab File ID: TV034413.D			Analyzed: 12/30/25 11:46			
ISTD: Bromochloromethane	593527	12.076	593069	12.076	100	60 - 140	0.0000	+/-0.33	
ISTD: 1,4-Difluorobenzene	894614	13.655	889429	13.655	101	60 - 140	0.0000	+/-0.33	
ISTD: d5-Chlorobenzene	806733	18.925	807685	18.925	100	60 - 140	0.0000	+/-0.33	
Blank (BL51984-BLK1)			Lab File ID: TV034415.D			Analyzed: 12/30/25 13:45			
ISTD: Bromochloromethane	642997	12.073	593069	12.076	108	60 - 140	-0.0030	+/-0.33	
ISTD: 1,4-Difluorobenzene	995979	13.652	889429	13.655	112	60 - 140	-0.0030	+/-0.33	
ISTD: d5-Chlorobenzene	866855	18.925	807685	18.925	107	60 - 140	0.0000	+/-0.33	
Low Cal Check (S5L3118-LCV1)			Lab File ID: TV034416.D			Analyzed: 12/30/25 14:30			
ISTD: Bromochloromethane	617940	12.073	593069	12.076	104	60 - 140	-0.0030	+/-0.33	
ISTD: 1,4-Difluorobenzene	948376	13.652	889429	13.655	107	60 - 140	-0.0030	+/-0.33	
ISTD: d5-Chlorobenzene	800954	18.925	807685	18.925	99	60 - 140	0.0000	+/-0.33	
Low Cal Check (S5L3118-LCV2)			Lab File ID: TV034417.D			Analyzed: 12/30/25 15:16			
ISTD: Bromochloromethane	586452	12.076	593069	12.076	99	60 - 140	0.0000	+/-0.33	
ISTD: 1,4-Difluorobenzene	878519	13.652	889429	13.655	99	60 - 140	-0.0030	+/-0.33	
ISTD: d5-Chlorobenzene	749497	18.925	807685	18.925	93	60 - 140	0.0000	+/-0.33	

FORM VI INITIAL CALIBRATION DATA

EPA TO-15

Laboratory: ALS Environmental - Stratford
SDG: 25L1231
Client: Langan Engineering & Environmental Services (NYC)
Project: 170390601
Calibration: SL50019
Instrument: TO15_AIR3
Calibration Date: 12/05/25 16:22

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ppbv	RF	ppbv	RF	ppbv	RF	ppbv	RF	ppbv	RF	ppbv	RF
1,1,1,2-Tetrachloroethane	0.025		0.05		0.1	0.5883821	0.5	0.5761791	2.5	0.5647584	5	0.5608271
1,1,1-Trichloroethane	0.025		0.05		0.1	1.205603	0.5	1.139463	2.5	1.132759	5	1.158827
1,1,2,2-Tetrachloroethane	0.025		0.05		0.1	0.8621836	0.5	0.8491208	2.5	0.9023615	5	0.9139231
1,1,2-Trichloro-1,2,2-triflu oroethane (Freon 113)	0.025		0.05		0.1	0.8208264	0.5	0.8270362	2.5	0.8364224	5	0.8596588
1,1,2-Trichloroethane	0.025		0.05		0.1	0.3560156	0.5	0.3447666	2.5	0.3597967	5	0.3625314
1,1-Dichloroethane	0.025		0.05		0.1	1.026369	0.5	0.9949276	2.5	0.9912878	5	1.00473
1,1-Dichloroethylene	0.025	0.9467579	0.05	1.012153	0.1	0.9640337	0.5	0.9085749	2.5	0.932444	5	0.9550827
1,2,4-Trichlorobenzene	0.025		0.05		0.1		0.5	~~7.600992E-02~~	2.5	0.2581321	5	0.2744164
1,2,4-Trimethylbenzene	0.025		0.05		0.1	1.35307	0.5	1.42144	2.5	1.551278	5	1.569754
1,2-Dibromoethane	0.025		0.05		0.1	0.4670646	0.5	0.5112212	2.5	0.5359817	5	0.5506392
1,2-Dichlorobenzene	0.025		0.05		0.1	0.5219926	0.5	0.6359244	2.5	0.8296423	5	0.876701
1,2-Dichloroethane	0.025		0.05		0.1	0.8978115	0.5	0.8437659	2.5	0.839958	5	0.8553598
1,2-Dichloropropane	0.025		0.05		0.1	0.4119165	0.5	0.3977106	2.5	0.4021178	5	0.40368
1,2-Dichlorotetrafluoroetha ne	0.025		0.05		0.1	1.042663	0.5	1.011954	2.5	1.060551	5	1.088766
1,3,5-Trimethylbenzene	0.025		0.05		0.1	1.464195	0.5	1.424281	2.5	1.530814	5	1.532859
1,3-Butadiene	0.025		0.05		0.1	0.5317209	0.5	0.5090231	2.5	0.5039217	5	0.5171373
1,3-Dichlorobenzene	0.025		0.05		0.1	0.4915458	0.5	0.5861764	2.5	0.8059756	5	0.8566568
1,3-Dichloropropane	0.025		0.05		0.1	0.487204	0.5	0.5320186	2.5	0.5455205	5	0.5539367
1,4-Dichlorobenzene	0.025		0.05		0.1	0.382289	0.5	0.5159133	2.5	0.7376469	5	0.8017233
1,4-Dioxane	0.025		0.05		0.1	0.1978178	0.5	0.199674	2.5	0.1941949	5	0.1976863
2,2,4-Trimethylpentane	0.025	3.445852	0.05	3.376904	0.1	3.279867	0.5	3.16979	2.5	3.234452	5	3.244539
2-Butanone	0.025		0.05		0.1	1.68904	0.5	1.481159	2.5	1.509135	5	1.478866
2-Hexanone	0.025		0.05		0.1	0.8370083	0.5	0.8383523	2.5	0.9793994	5	0.9972744
3-Chloropropene	0.025		0.05		0.1	0.8830124	0.5	0.8911023	2.5	0.9086241	5	0.9134265
4-Methyl-2-pentanone	0.025		0.05		0.1	1.167991	0.5	1.114271	2.5	1.150981	5	1.155091
Acetone	0.025		0.05		0.1	~~1.87201~~	0.5	1.314724	2.5	1.200502	5	1.021969
Acrolein	0.025		0.05		0.1	0.3405286	0.5	0.2799181	2.5	0.2772167	5	0.2810673
Acrylonitrile	0.025		0.05		0.1	~~1.05537~~	0.5	0.7302832	2.5	0.6865769	5	0.5724171

FORM VI INITIAL CALIBRATION DATA

EPA TO-15

Laboratory: ALS Environmental - Stratford
SDG: 25L1231
Client: Langan Engineering & Environmental Services (NYC)
Project: 170390601
Calibration: SL50019
Instrument: TO15_AIR3
Calibration Date: 12/05/25 16:22

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ppbv	RF	ppbv	RF	ppbv	RF	ppbv	RF	ppbv	RF	ppbv	RF
Benzene	0.025		0.05		0.1	1.457636	0.5	1.374214	2.5	1.356942	5	1.342494
Benzyl chloride	0.025		0.05		0.1	6.320188E-02	0.5	0.121746	2.5	0.1982387	5	0.2121914
Bromodichloromethane	0.025		0.05		0.1	0.7180541	0.5	0.693975	2.5	0.7197056	5	0.725518
Bromoform	0.025		0.05		0.1	0.6797225	0.5	0.7082694	2.5	0.762625	5	0.7458461
Bromomethane	0.025		0.05		0.1	0.3862712	0.5	0.3731944	2.5	0.3804059	5	0.390004
Carbon disulfide	0.025		0.05		0.1	1.216515	0.5	1.208491	2.5	1.234162	5	1.240926
Carbon tetrachloride	0.025	1.171324	0.05	1.113783	0.1	1.173015	0.5	1.155836	2.5	1.194107	5	1.210295
Chlorobenzene	0.025		0.05		0.1	0.957591	0.5	0.9353883	2.5	0.9389957	5	0.9296855
Chloroethane	0.025		0.05		0.1	0.2844714	0.5	0.2715384	2.5	0.2662781	5	0.2686878
Chloroform	0.025		0.05		0.1	1.068225	0.5	1.001822	2.5	1.024037	5	1.048767
Chloromethane	0.025		0.05		0.1	0.6870366	0.5	0.6093122	2.5	0.5952915	5	0.6028578
cis-1,2-Dichloroethylene	0.025	0.8965335	0.05	0.8672631	0.1	1.039225	0.5	0.817973	2.5	0.8297495	5	0.8390725
cis-1,3-Dichloropropylene	0.025		0.05		0.1	0.4799575	0.5	0.5001355	2.5	0.5257699	5	0.5341853
Cyclohexane	0.025		0.05		0.1	1.140277	0.5	1.10214	2.5	1.100933	5	1.102359
Dibromochloromethane	0.025		0.05		0.1	0.6397552	0.5	0.6792944	2.5	0.7132497	5	0.7226619
Dichlorodifluoromethane	0.025		0.05		0.1	1.222644	0.5	1.217733	2.5	1.126635	5	1.27517
Ethanol	0.025		0.05		0.1	1.31114	0.5	0.5919287	2.5	0.4408425	5	0.2786284
Ethyl acetate	0.025		0.05		0.1	1.692627	0.5	1.690771	2.5	1.758573	5	1.749743
Ethyl Benzene	0.025		0.05		0.1	1.665562	0.5	1.632771	2.5	1.678016	5	1.660656
Hexachlorobutadiene	0.025		0.05		0.1	0.6798324	0.5	0.7499067	2.5	0.8756467	5	0.9303712
Isopropanol	0.025		0.05		0.1	~~1.545085~~	0.5	1.364913	2.5	1.34902	5	1.370933
Isopropylbenzene	0.025		0.05		0.1	1.791086	0.5	1.813655	2.5	1.885013	5	1.870056
Methyl Methacrylate	0.025		0.05		0.1	0.3338058	0.5	0.3333609	2.5	0.3324066	5	0.3335449
Methyl tert-butyl ether (MTBE)	0.025		0.05		0.1	1.370037	0.5	1.339239	2.5	1.342046	5	1.372343
Methylene chloride	0.025		0.05		0.1	0.9432552	0.5	0.844063	2.5	0.8388298	5	0.8423121
Naphthalene	0.025		0.05		0.1	~~0.2025758~~	0.5	~~0.2937821~~	2.5	0.8181235	5	0.9234039
n-Butylbenzene	0.025		0.05		0.1	0.939125	0.5	1.218414	2.5	1.702728	5	1.710132
n-Heptane	0.025		0.05		0.1	1.385733	0.5	1.435071	2.5	1.412365	5	1.401333
n-Hexane	0.025		0.05		0.1	1.055519	0.5	0.9735623	2.5	1.013171	5	1.024497

FORM VI INITIAL CALIBRATION DATA

EPA TO-15

Laboratory: ALS Environmental - Stratford
SDG: 25L1231
Client: Langan Engineering & Environmental Services (NYC)
Project: 170390601
Calibration: SL50019
Instrument: TO15_AIR3
Calibration Date: 12/05/25 16:22

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ppbv	RF	ppbv	RF	ppbv	RF	ppbv	RF	ppbv	RF	ppbv	RF
n-Propylbenzene	0.025		0.05		0.1	2.010479	0.5	2.021669	2.5	2.2626	5	2.260034
o-Xylene	0.025		0.05		0.1	1.376042	0.5	1.306004	2.5	1.344383	5	1.321505
p- & m- Xylenes	0.05		0.1		0.2	1.312126	1	1.266633	5	1.29479	10	1.288424
p-Ethyltoluene	0.025		0.05		0.1	1.47178	0.5	1.622947	2.5	1.812977	5	1.821203
p-Isopropyltoluene	0.025		0.05		0.1	1.556085	0.5	1.699608	2.5	1.926534	5	1.940498
Propylene	0.025		0.05		0.1	0.4631069	0.5	0.4062676	2.5	0.3873745	5	0.3952484
sec-Butylbenzene	0.025		0.05		0.1	2.072912	0.5	2.158335	2.5	2.3205	5	2.33456
Styrene	0.025		0.05		0.1	0.8281096	0.5	0.8559086	2.5	0.9172517	5	0.9434724
tert-Butylbenzene	0.025		0.05		0.1	1.614231	0.5	1.629063	2.5	1.716772	5	1.727079
Tetrachloroethylene	0.025		0.05		0.1	0.5289885	0.5	0.5285932	2.5	0.5439191	5	0.5484834
Tetrahydrofuran	0.025		0.05		0.1	0.9419098	0.5	0.890508	2.5	0.8777392	5	0.8782342
Toluene	0.025		0.05		0.1	1.118583	0.5	1.101567	2.5	1.104707	5	1.107408
trans-1,2-Dichloroethylene	0.025		0.05		0.1	0.8291976	0.5	0.8390709	2.5	0.8470292	5	0.8655006
trans-1,3-Dichloropropylene	0.025		0.05		0.1	0.440714	0.5	0.4703227	2.5	0.49233	5	0.510448
Trichloroethylene	0.025	0.3842439	0.05	0.4466497	0.1	0.4148339	0.5	0.4148567	2.5	0.4080437	5	0.4115028
Trichlorofluoromethane (Freon 11)	0.025		0.05		0.1	1.286773	0.5	1.208997	2.5	1.250869	5	1.270708
Vinyl acetate	0.025		0.05		0.1	1.660936	0.5	1.516936	2.5	1.401113	5	1.28075
Vinyl bromide	0.025		0.05		0.1	0.3873176	0.5	0.3560784	2.5	0.3706801	5	0.3789025
Vinyl Chloride	0.025	0.47742	0.05	0.5288912	0.1	0.5007773	0.5	0.50412	2.5	0.4918247	5	0.5123333

FORM VI **INITIAL CALIBRATION DATA (Continued)**

EPA TO-15

Laboratory: ALS Environmental - Stratford SDG: 25L1231

Client: Langan Engineering & Environmental Services (NYC) Project: 170390601

Calibration: SL50019 Instrument: TO15_AIR3

Calibration Date: 12/05/25 16:22

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ppbv	RF	ppbv	RF	ppbv	RF	ppbv	RF	ppbv	RF	ppbv	RF
1,1,1,2-Tetrachloroethane	10	0.5632569	15	0.5491391	20	0.5569469	30	0.5629751				
1,1,1-Trichloroethane	10	1.196808	15	1.198245	20	1.223935	30	1.278358				
1,1,2,2-Tetrachloroethane	10	0.8980617	15	0.8665854	20	0.8900937	30	0.8944571				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10	0.8856051	15	0.8873224	20	0.9106591	30	0.9440849				
1,1,2-Trichloroethane	10	0.3650338	15	0.3571097	20	0.3560182	30	0.357496				
1,1-Dichloroethane	10	1.02252	15	1.008942	20	1.027725	30	1.063081				
1,1-Dichloroethylene	10	0.9738675	15	0.9662157	20	0.9785655	30	1.005142				
1,2,4-Trichlorobenzene	10	0.4515621	15	0.5229475	20	0.5483497	30	~~0.2703317~~				
1,2,4-Trimethylbenzene	10	1.589864	15	1.553079	20	1.583381	30	1.572862				
1,2-Dibromoethane	10	0.5643167	15	0.5634906	20	0.5676525	30	0.5796524				
1,2-Dichlorobenzene	10	0.948477	15	0.9459954	20	0.9631893	30	0.9607128				
1,2-Dichloroethane	10	0.8721275	15	0.8656576	20	0.8760224	30	0.902122				
1,2-Dichloropropane	10	0.3985098	15	0.3868153	20	0.3868227	30	0.3872886				
1,2-Dichlorotetrafluoroethane	10	1.138182	15	1.156493	20	1.210563	30	1.297995				
1,3,5-Trimethylbenzene	10	1.540846	15	1.506263	20	1.524532	30	1.545206				
1,3-Butadiene	10	0.5407455	15	0.5318457	20	0.5384334	30	0.558072				
1,3-Dichlorobenzene	10	0.940233	15	0.9517952	20	0.9757458	30	0.9989642				
1,3-Dichloropropane	10	0.5596923	15	0.552263	20	0.548201	30	0.5553781				
1,4-Dichlorobenzene	10	0.9198194	15	0.9504872	20	0.9749054	30	1.006981				
1,4-Dioxane	10	0.1971672	15	0.1973473	20	0.192555	30	0.1998785				
2,2,4-Trimethylpentane	10	3.276515	15	3.222725	20	3.269259	30	3.329473				
2-Butanone	10	1.493045	15	1.472829	20	1.467169	30	1.486668				
2-Hexanone	10	1.008584	15	0.9844794	20	0.9609723	30	0.9169729				
3-Chloropropene	10	0.9344424	15	0.9108843	20	0.9106576	30	0.9177827				
4-Methyl-2-pentanone	10	1.133654	15	1.090278	20	1.055524	30	1.024466				
Acetone	10	1.04515	15	1.020265	20	1.01634	30	1.02353				
Acrolein	10	0.2883069	15	0.2896724	20	0.2937146	30	0.3052115				
Acrylonitrile	10	0.5825516	15	0.5774907	20	0.5880136	30	0.5998349				

FORM VI INITIAL CALIBRATION DATA (Continued)

EPA TO-15

Laboratory: ALS Environmental - Stratford
SDG: 25L1231
Client: Langan Engineering & Environmental Services (NYC)
Project: 170390601
Calibration: SL50019
Instrument: TO15_AIR3
Calibration Date: 12/05/25 16:22

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ppbv	RF	ppbv	RF	ppbv	RF	ppbv	RF	ppbv	RF	ppbv	RF
Benzene	10	1.365555	15	1.352313	20	1.387543	30	1.441362				
Benzyl chloride	10	0.2561056	15	0.261916	20	0.2720421	30	0.2778626				
Bromodichloromethane	10	0.7253408	15	0.7093505	20	0.7089674	30	0.7172289				
Bromoform	10	0.7678524	15	0.7576736	20	0.7856275	30	0.807314				
Bromomethane	10	0.4045758	15	0.4092341	20	0.4238559	30	0.451642				
Carbon disulfide	10	1.278975	15	1.277714	20	1.308179	30	1.357988				
Carbon tetrachloride	10	1.24042	15	1.2368	20	1.269123	30	1.316267				
Chlorobenzene	10	0.9408354	15	0.919465	20	0.9389524	30	0.9542361				
Chloroethane	10	0.2809708	15	0.2822136	20	0.2911179	30	0.3068507				
Chloroform	10	1.071696	15	1.069267	20	1.095283	30	1.140393				
Chloromethane	10	0.6196376	15	0.6151757	20	0.6246119	30	0.6474154				
cis-1,2-Dichloroethylene	10	0.835886	15	0.8406045	20	0.8613062	30	0.8898217				
cis-1,3-Dichloropropylene	10	0.5381285	15	0.533016	20	0.5308543	30	0.5425272				
Cyclohexane	10	1.125689	15	1.112881	20	1.131897	30	1.160888				
Dibromochloromethane	10	0.7332205	15	0.7296324	20	0.7266277	30	0.7426253				
Dichlorodifluoromethane	10	1.336855	15	1.343376	20	1.390776	30	1.371399				
Ethanol	10	0.2783674	15	0.2730161	20	0.2725161	30	0.2804368				
Ethyl acetate	10	1.762569	15	1.745613	20	1.739441	30	1.742949				
Ethyl Benzene	10	1.659735	15	1.62089	20	1.641174	30	1.66234				
Hexachlorobutadiene	10	0.9780577	15	0.9556226	20	0.8362095	30	~~0.3103369~~				
Isopropanol	10	1.406209	15	1.386345	20	1.383684	30	1.408687				
Isopropylbenzene	10	1.851388	15	1.811541	20	1.845491	30	1.861818				
Methyl Methacrylate	10	0.3303208	15	0.3291479	20	0.3270905	30	0.333889				
Methyl tert-butyl ether (MTBE)	10	1.409882	15	1.401636	20	1.434117	30	1.496607				
Methylene chloride	10	0.8587479	15	0.8407313	20	0.8470087	30	0.8501462				
Naphthalene	10	1.299655	15	1.446593	20	1.437327	30	~~0.688444~~				
n-Butylbenzene	10	1.830702	15	1.80617	20	1.834134	30	1.788899				
n-Heptane	10	1.394174	15	1.361848	20	1.341724	30	1.326193				

FORM VI **INITIAL CALIBRATION DATA (Continued)**

EPA TO-15

Laboratory: ALS Environmental - Stratford SDG: 25L1231

Client: Langan Engineering & Environmental Services (NYC) Project: 170390601

Calibration: SL50019 Instrument: TO15_AIR3

Calibration Date: 12/05/25 16:22

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ppbv	RF	ppbv	RF	ppbv	RF	ppbv	RF	ppbv	RF	ppbv	RF
n-Hexane	10	1.042067	15	1.038314	20	1.052004	30	1.079127				
n-Propylbenzene	10	2.274076	15	2.204463	20	2.237239	30	2.254102				
o-Xylene	10	1.330983	15	1.303422	20	1.330502	30	1.354208				
p- & m- Xylenes	20	1.291903	30	1.26182	40	1.279481	60	1.296486				
p-Ethyltoluene	10	1.838429	15	1.779156	20	1.809634	30	1.820117				
p-Isopropyltoluene	10	1.976145	15	1.938158	20	1.960375	30	1.926095				
Propylene	10	0.4017406	15	0.3980412	20	0.4034206	30	0.4201751				
sec-Butylbenzene	10	2.336343	15	2.282152	20	2.304277	30	2.271835				
Styrene	10	0.9586816	15	0.9458725	20	0.9629825	30	0.9892919				
tert-Butylbenzene	10	1.731895	15	1.690185	20	1.725845	30	1.718566				
Tetrachloroethylene	10	0.559221	15	0.5500202	20	0.5536242	30	0.566298				
Tetrahydrofuran	10	0.8814247	15	0.8673032	20	0.8604102	30	0.8633867				
Toluene	10	1.111796	15	1.084832	20	1.090094	30	1.09491				
trans-1,2-Dichloroethylene	10	0.8927763	15	0.8866607	20	0.9018293	30	0.9352942				
trans-1,3-Dichloropropylene	10	0.5128373	15	0.5147699	20	0.5086359	30	0.5209121				
Trichloroethylene	10	0.4174036	15	0.4109667	20	0.4084284	30	0.4180425				
Trichlorofluoromethane (Freon 11)	10	1.32269	15	1.320468	20	1.361468	30	1.411492				
Vinyl acetate	10	1.417895	15	1.500882	20	1.539222	30	1.658327				
Vinyl bromide	10	0.3908742	15	0.3967475	20	0.4102763	30	0.4328759				
Vinyl Chloride	10	0.5351668	15	0.5391818	20	0.5509005	30	0.5798561				

FORM VI **INITIAL CALIBRATION DATA (Continued)**

EPA TO-15

Laboratory:	ALS Environmental - Stratford	SDG:	25L1231
Client:	Langan Engineering & Environmental Services (NYC)	Project:	170390601
Calibration:	SL50019	Instrument:	TO15_AIR3
		Calibration Date:	12/05/25 16:22

Compound	Level 13		Level 14		Level 15		Level 16		Level 17		Level 18	
	ppbv	RF	ppbv	RF	ppbv	RF	ppbv	RF	ppbv	RF	ppbv	RF

FORM VI

INITIAL CALIBRATION DATA (Continued)

EPA TO-15

Laboratory: ALS Environmental - Stratford
SDG: 25L1231
Client: Langan Engineering & Environmental Services (NYC)
Project: 170390601
Calibration: SL50019
Instrument: TO15_AIR3
Calibration Date: 12/05/25 16:22

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
1,1,1,2-Tetrachloroethane	0.5653081	2.126896	19.04663	0.0159776			30	
1,1,1-Trichloroethane	1.19175	4.023496	12.59512	0.0233556			30	
1,1,2,2-Tetrachloroethane	0.8845984	2.552809	20.86363	1.660989E-02			30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.8714519	4.976758	8.345625	4.613669E-02			30	
1,1,2-Trichloroethane	0.357346	1.685277	16.89037	2.730312E-02			30	
1,1-Dichloroethane	1.017448	2.265423	10.58187	4.326943E-02			30	
1,1-Dichloroethylene	0.9642837	3.237149	8.574	3.951201E-02			30	
1,2,4-Trichlorobenzene	0.4110816	33.32452	27.0598	1.344498E-02			30	*
1,2,4-Trimethylbenzene	1.524341	5.744225	22.59963	7.884087E-03			30	
1,2-Dibromoethane	0.5425024	6.864267	18.1995	1.943408E-02			30	
1,2-Dichlorobenzene	0.8353294	20.07294	24.32	1.822379E-02			30	
1,2-Dichloroethane	0.8691031	2.632296	13.13175	3.108548E-02			30	
1,2-Dichloropropane	0.3968577	2.328126	14.52625	2.091861E-02			30	
1,2-Dichlorotetrafluoroethane	1.125896	8.454917	5.356375	1.765482E-02			30	
1,3,5-Trimethylbenzene	1.508624	2.834782	21.76362	1.901877E-02			30	
1,3-Butadiene	0.5288624	3.394644	5.936125	0.0235883			30	
1,3-Dichlorobenzene	0.8258866	22.97049	23.43025	1.848271E-02			30	
1,3-Dichloropropane	0.5417768	4.352547	17.316	1.974091E-02			30	
1,4-Dichlorobenzene	0.7862207	29.16271	23.6195	0.0136509			30	
1,4-Dioxane	0.1970401	1.277254	14.85437	7.334393E-02			30	
2,2,4-Trimethylpentane	3.284938	2.443562	12.9145	0.032317			30	
2-Butanone	1.509739	4.874108	11.19363	4.337442E-02			30	
2-Hexanone	0.9403804	7.348045	16.90038	1.880019E-02			30	
3-Chloropropene	0.9087415	1.737773	9.165625	2.497269E-02			30	
4-Methyl-2-pentanone	1.111532	4.60085	15.432	3.192194E-02			30	
Acetone	1.091783	10.83979	8.183286	3.286786E-02			30	
Acrolein	0.2944545	7.015853	8.0765	6.524995E-02			30	
Acrylonitrile	0.6195954	10.10004	9.398429	2.702686E-02			30	
Benzene	1.384757	3.065704	13.26362	3.127231E-02			30	

FORM VI

INITIAL CALIBRATION DATA (Continued)

EPA TO-15

Laboratory: ALS Environmental - Stratford
SDG: 25L1231
Client: Langan Engineering & Environmental Services (NYC)
Project: 170390601
Calibration: SL50019
Instrument: TO15_AIR3
Calibration Date: 12/05/25 16:22

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Benzyl chloride	0.207913	37.5748	23.76663	2.428023E-02			30	*
Bromodichloromethane	0.7147675	1.461536	14.88737	3.948386E-02			30	
Bromoform	0.7518663	5.451702	20.61038	1.258885E-02			30	
Bromomethane	0.4023979	6.43052	6.729875	7.584656E-02			30	
Carbon disulfide	1.265369	4.000967	9.4495	0.0118642			30	
Carbon tetrachloride	1.208097	4.912816	13.0603	2.738877E-02			30	
Chlorobenzene	0.9393937	1.310782	18.99975	2.261195E-02			30	
Chloroethane	0.2815161	4.727539	6.8995	8.657383E-02			30	
Chloroform	1.064936	3.985133	11.85525	5.183374E-02			30	
Chloromethane	0.6251673	4.720067	5.581625	4.250905E-02			30	
cis-1,2-Dichloroethylene	0.8717435	7.364874	11.5811	2.920745E-02			30	
cis-1,3-Dichloropropylene	0.5230718	4.138579	15.78137	1.522407E-02			30	
Cyclohexane	1.122133	1.924672	12.7685	2.504219E-02			30	
Dibromochloromethane	0.7108834	4.845996	17.8255	9.760433E-03			30	
Dichlorodifluoromethane	1.285574	7.101078	5.08975	2.403145E-02			30	
Ethanol	0.4658595	77.40329	7.026875	7.652034E-02			30	*
Ethyl acetate	1.735286	1.612324	11.499	4.105815E-02			30	
Ethyl Benzene	1.652643	1.155766	19.10612	1.543241E-02			30	
Hexachlorobutadiene	0.8579495	12.89134	27.33429	4.00782E-03			30	
Isopropanol	1.381399	1.569308	7.967143	6.246568E-02			30	
Isopropylbenzene	1.841256	1.771721	20.68813	0.0143322			30	
Methyl Methacrylate	0.3316958	0.7690256	14.54087	1.287164E-02			30	
Methyl tert-butyl ether (MTBE)	1.395738	3.748891	9.726	0.113604			30	
Methylene chloride	0.8581368	4.074407	9.317625	2.431136E-02			30	
Naphthalene	1.18502	24.9004	27.4532	1.854527E-02			30	
n-Butylbenzene	1.603788	20.96219	24.06037	2.218581E-02			30	
n-Heptane	1.382305	2.653316	13.28037	3.106002E-02			30	
n-Hexane	1.034783	3.073243	10.21125	0.0324522			30	
n-Propylbenzene	2.190583	5.011264	21.45525	1.695467E-02			30	
o-Xylene	1.333381	1.831956	20.03363	1.094558E-02			30	

FORM VI

INITIAL CALIBRATION DATA (Continued)

EPA TO-15

Laboratory:	ALS Environmental - Stratford	SDG:	25L1231
Client:	Langan Engineering & Environmental Services (NYC)	Project:	170390601
Calibration:	SL50019	Instrument:	TO15_AIR3
		Calibration Date:	12/05/25 16:22

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
p- & m- Xylenes	1.286458	1.284386	19.2515	5.790823E-03			30	
p-Ethyltoluene	1.74703	7.483748	21.67775	3.836186E-03			30	
p-Isopropyltoluene	1.865437	8.175249	23.26063	1.648947E-02			30	
Propylene	0.4094219	5.779334	5.019375	1.468273E-02			30	
sec-Butylbenzene	2.260114	4.196754	22.99538	0.017918			30	
Styrene	0.9251963	6.019113	20.0535	1.856762E-02			30	
tert-Butylbenzene	1.694204	2.755932	22.526	6.472485E-03			30	
Tetrachloroethylene	0.5473934	2.439722	17.6305	1.505921E-02			30	
Tetrahydrofuran	0.8826145	2.941977	12.185	7.242844E-02			30	
Toluene	1.101737	1.025759	16.43588	2.524429E-02			30	
trans-1,2-Dichloroethylene	0.8746699	4.114861	9.92	3.807101E-02			30	
trans-1,3-Dichloropropylene	0.4963712	5.571163	16.59512	1.983346E-02			30	
Trichloroethylene	0.4134972	3.658995	14.2956	3.330919E-02			30	
Trichlorofluoromethane (Freon 11)	1.304183	4.912339	7.47725	0.0159262			30	
Vinyl acetate	1.497008	8.647675	10.53187	2.694243E-02			30	
Vinyl bromide	0.3904691	6.082313	7.35425	4.301549E-02			30	
Vinyl Chloride	0.5220472	5.872945	5.8561	6.559938E-02			30	

Data Path : C:\MassHunter\GCMS\1\data\2025\12-DEC\120525\
Data File : TV034038.D
Acq On : 05 Dec 2025 05:08 pm
Operator : YR
Sample : SEQ-CAL1
Misc : QBTO3091525A
ALS Vial : 12 Sample Multiplier: 1
InstName : TO15_AIR3

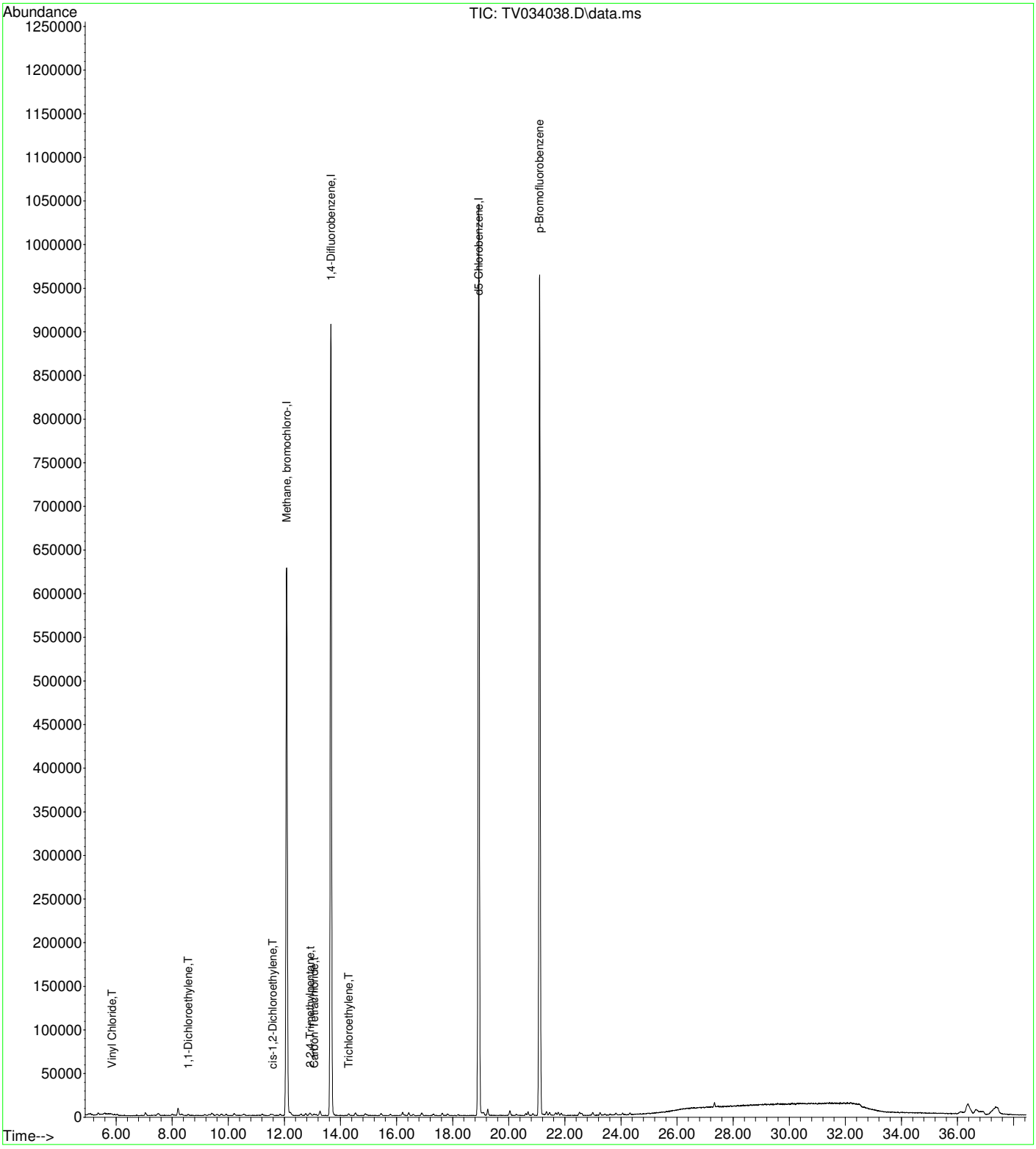
Quant Time: Dec 08 17:01:51 2025
Quant Method : C:\MassHunter\GCMS\1\methods\AIR-3-DEC052025.M
Quant Title : TO15 VOC Analysis
QLast Update : Mon Dec 08 14:43:00 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Methane, bromochloro-	12.080	49	692891	10.00	ppbv	#-0.03
39) 1,4-Difluorobenzene	13.658	114	1119081	10.00	ppbv	-0.03
55) d5-Chlorobenzene	18.928	117	948898	10.00	ppbv	#-0.03
Target Compounds						Qvalue
6) Vinyl Chloride	5.852	62	827	0.02	ppbv	# 42
17) 1,1-Dichloroethylene	8.575	61	1640	0.02	ppbv	# 54
29) cis-1,2-Dichloroethylene	11.588	61	1553	0.03	ppbv	# 68
34) 2,2,4-Trimethylpentane	12.919	57	5969	0.03	ppbv	# 91
35) Carbon Tetrachloride	13.060	117	2029	0.02	ppbv	100
40) Trichloroethylene	14.289	95	1075	0.02	ppbv	89
66) p-Bromofluorobenzene	21.095	95	597215	8.57	ppbv	94

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

Data Path : C:\MassHunter\GCMS\1\data\2025\12-DEC\120525\
Data File : TV034038.D
Acq On : 05 Dec 2025 05:08 pm
Operator : YR
Sample : SEQ-CAL1
Misc : QBTO3091525A
ALS Vial : 12 Sample Multiplier: 1
InstName : TO15_AIR3

Quant Time: Dec 08 17:01:51 2025
Quant Method : C:\MassHunter\GCMS\1\methods\AIR-3-DEC052025.M
Quant Title : TO15 VOC Analysis
QLast Update : Mon Dec 08 14:43:00 2025
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MassHunter\GCMS\1\data\2025\12-DEC\120525\
Data File : TV034039.D
Acq On : 05 Dec 2025 05:54 pm
Operator : YR
Sample : SEQ-CAL2
Misc : QBTO3091525A
ALS Vial : 12 Sample Multiplier: 1
InstName : TO15_AIR3

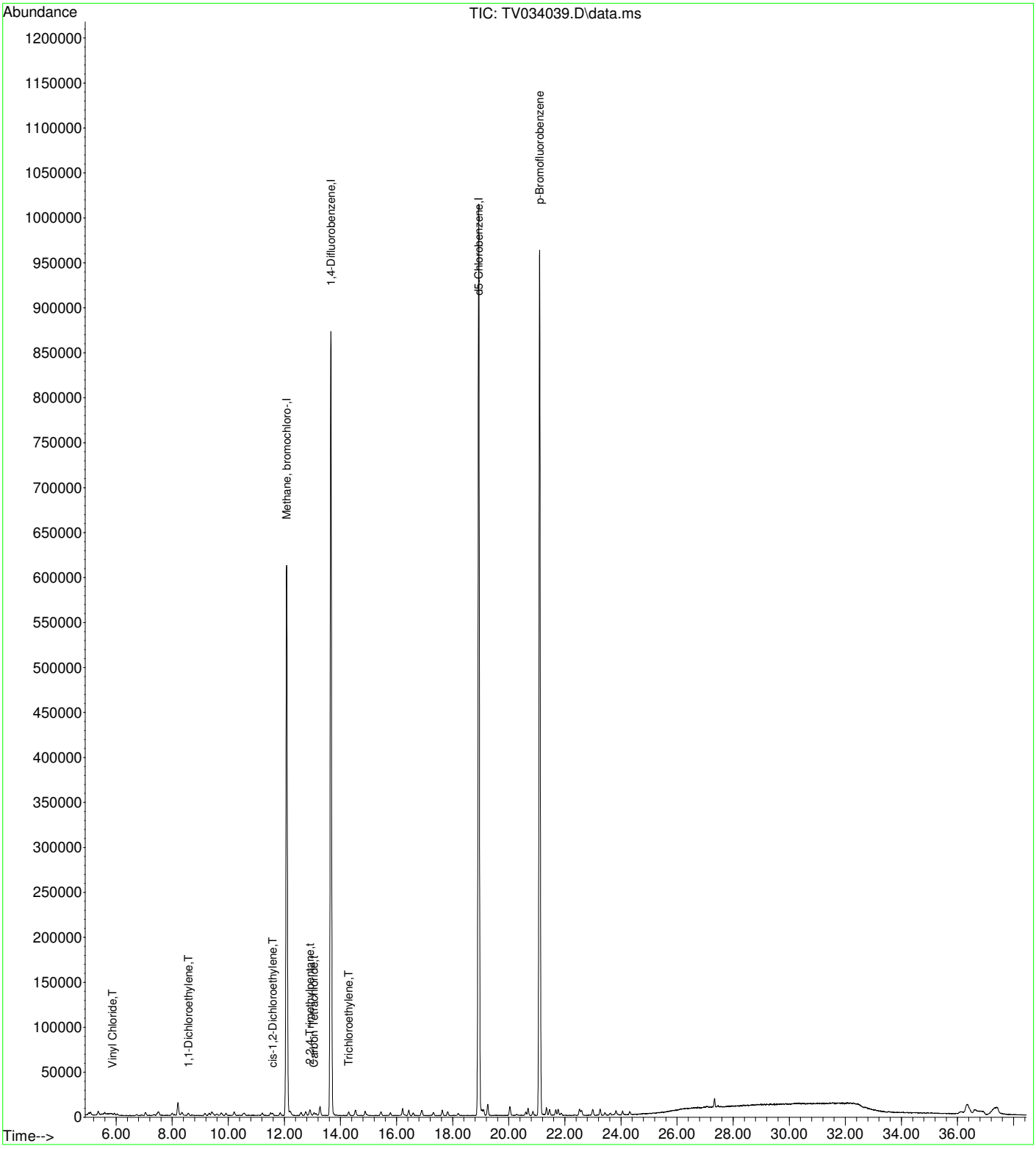
Quant Time: Dec 08 17:01:55 2025
Quant Method : C:\MassHunter\GCMS\1\methods\AIR-3-DEC052025.M
Quant Title : TO15 VOC Analysis
QLast Update : Mon Dec 08 14:43:00 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Methane, bromochloro-	12.080	49	674997	10.00	ppbv	#-0.03
39) 1,4-Difluorobenzene	13.658	114	1071981	10.00	ppbv	-0.03
55) d5-Chlorobenzene	18.925	117	917175	10.00	ppbv	#-0.04
Target Compounds						Qvalue
6) Vinyl Chloride	5.864	62	1785	0.05	ppbv	98
17) 1,1-Dichloroethylene	8.578	61	3416	0.05	ppbv #	81
29) cis-1,2-Dichloroethylene	11.581	61	2927	0.05	ppbv	83
34) 2,2,4-Trimethylpentane	12.909	57	11397	0.05	ppbv #	94
35) Carbon Tetrachloride	13.054	117	3759	0.05	ppbv #	92
40) Trichloroethylene	14.292	95	2394	0.05	ppbv	95
66) p-Bromofluorobenzene	21.098	95	593325	8.81	ppbv	94

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

Data Path : C:\MassHunter\GCMS\1\data\2025\12-DEC\120525\
Data File : TV034039.D
Acq On : 05 Dec 2025 05:54 pm
Operator : YR
Sample : SEQ-CAL2
Misc : QBTO3091525A
ALS Vial : 12 Sample Multiplier: 1
InstName : TO15_AIR3

Quant Time: Dec 08 17:01:55 2025
Quant Method : C:\MassHunter\GCMS\1\methods\AIR-3-DEC052025.M
Quant Title : TO15 VOC Analysis
QLast Update : Mon Dec 08 14:43:00 2025
Response via : Initial Calibration



Data Path : C:\MassHunter\GCMS\1\data\2025\12-DEC\120525\
Data File : TV034040.D
Acq On : 05 Dec 2025 06:40 pm
Operator : YR
Sample : SEQ-CAL3
Misc : QBTO3091525A
ALS Vial : 12 Sample Multiplier: 1
InstName : TO15_AIR3

Quant Time: Dec 08 17:01:59 2025
Quant Method : C:\MassHunter\GCMS\1\methods\AIR-3-DEC052025.M
Quant Title : TO15 VOC Analysis
QLast Update : Mon Dec 08 14:43:00 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Methane, bromochloro-	12.076	49	668960	10.00	ppbv		#-0.03
39) 1,4-Difluorobenzene	13.658	114	1062594	10.00	ppbv		-0.03
55) d5-Chlorobenzene	18.928	117	909783	10.00	ppbv		#-0.03
Target Compounds							Qvalue
2) Propylene	5.019	42	3098	0.11	ppbv		96
3) Dichlorodifluoromethane	5.093	85	8179	0.10	ppbv	#	94
4) 1,2-Dichlorotetrafluor...	5.356	85	6975	0.09	ppbv		98
5) Chloromethane	5.578	50	4596	0.11	ppbv		96
6) Vinyl Chloride	5.858	62	3350	0.10	ppbv		90
7) 1,3-Butadiene	5.938	54	3557	0.10	ppbv		96
8) Bromomethane	6.742	94	2584	0.10	ppbv	#	86
9) Chloroethane	6.913	64	1903	0.10	ppbv	#	92
10) ethanol	7.032	45	8771	0.38	ppbv		92
11) Vinyl Bromide	7.360	106	2591	0.10	ppbv		98
12) Trichlorofluoromethane	7.478	101	8608	0.10	ppbv		96
13) Isopropanol	7.990	45	10336	0.11	ppbv	#	99
14) Acrolein	8.086	56	2278	0.12	ppbv	#	100
15) Acetone	8.205	43	12523	0.17	ppbv		99
16) Freon-113	8.353	101	5491	0.09	ppbv		91
17) 1,1-Dichloroethylene	8.578	61	6449	0.10	ppbv		85
18) 3-Chloropropene	9.170	41	5907	0.10	ppbv		89
19) Methylene Chloride	9.321	49	6310	0.11	ppbv	#	69
20) Acrylonitrile	9.408	53	7060	0.17	ppbv	#	100
21) Carbon disulfide	9.453	76	8138	0.10	ppbv	#	77
22) Methyl-tert-Butyl Ethe...	9.752	73	9165	0.10	ppbv	#	72
23) trans-1,2-Dichloroethy...	9.912	61	5547	0.09	ppbv		86
24) Hexane	10.211	57	7061	0.10	ppbv		91
25) Vinyl Acetate	10.533	43	11111	0.11	ppbv	#	98
26) 1,1-Dichloroethane	10.572	63	6866	0.10	ppbv	#	97
27) 2-Butanone	11.205	43	11299	0.11	ppbv	#	83
28) Ethyl Acetate	11.510	43	11323	0.10	ppbv	#	55
29) cis-1,2-Dichloroethylene	11.575	61	6952	0.12	ppbv	#	70
30) Chloroform	11.842	83	7146	0.10	ppbv	#	95
31) Tetrahydrofuran	12.205	42	6301	0.11	ppbv	#	82
32) 1,1,1-Trichlorethane	12.591	97	8065	0.10	ppbv		93
33) Cyclohexane	12.774	56	7628	0.10	ppbv	#	74
34) 2,2,4-Trimethylpentane	12.912	57	21941	0.10	ppbv	#	97
35) Carbon Tetrachloride	13.057	117	7847	0.10	ppbv	#	58
36) 1,2-Dichloroethane	13.128	62	6006	0.10	ppbv	#	98
37) Benzene	13.256	78	9751	0.11	ppbv	#	100
38) n-Heptane	13.279	43	9270	0.10	ppbv	#	77
40) Trichloroethylene	14.289	95	4408	0.10	ppbv		97
41) 1,2-Dichloropropane	14.523	63	4377	0.10	ppbv	#	90
42) Methyl Methacrylate	14.543	69	3547	0.10	ppbv	#	69
43) 1,4-Dioxane	14.880	88	2102	0.10	ppbv	#	100
44) Bromodichloromethane	14.877	83	7630	0.10	ppbv	#	93
45) Methyl Isobutyl Ketone	15.443	43	12411	0.11	ppbv		92
46) cis-1,3-Dichloropropene	15.780	75	5100	0.09	ppbv	#	93
47) Toluene	16.430	91	11886	0.10	ppbv		96
48) trans-1,3-Dichloropropene	16.597	75	4683	0.09	ppbv	#	92
49) 1,1,2-Trichlorethane	16.896	97	3783	0.10	ppbv	#	87
50) 2-Hexanone	16.906	43	8894	0.09	ppbv	#	96
51) 1,3-Dichloropropane	17.317	76	5177	0.09	ppbv	#	98
52) Tetrachloroethylene	17.629	166	5621	0.10	ppbv		97

Data Path : C:\MassHunter\GCMS\1\data\2025\12-DEC\120525\
Data File : TV034040.D
Acq On : 05 Dec 2025 06:40 pm
Operator : YR
Sample : SEQ-CAL3
Misc : QBTO3091525A
ALS Vial : 12 Sample Multiplier: 1
InstName : TO15_AIR3

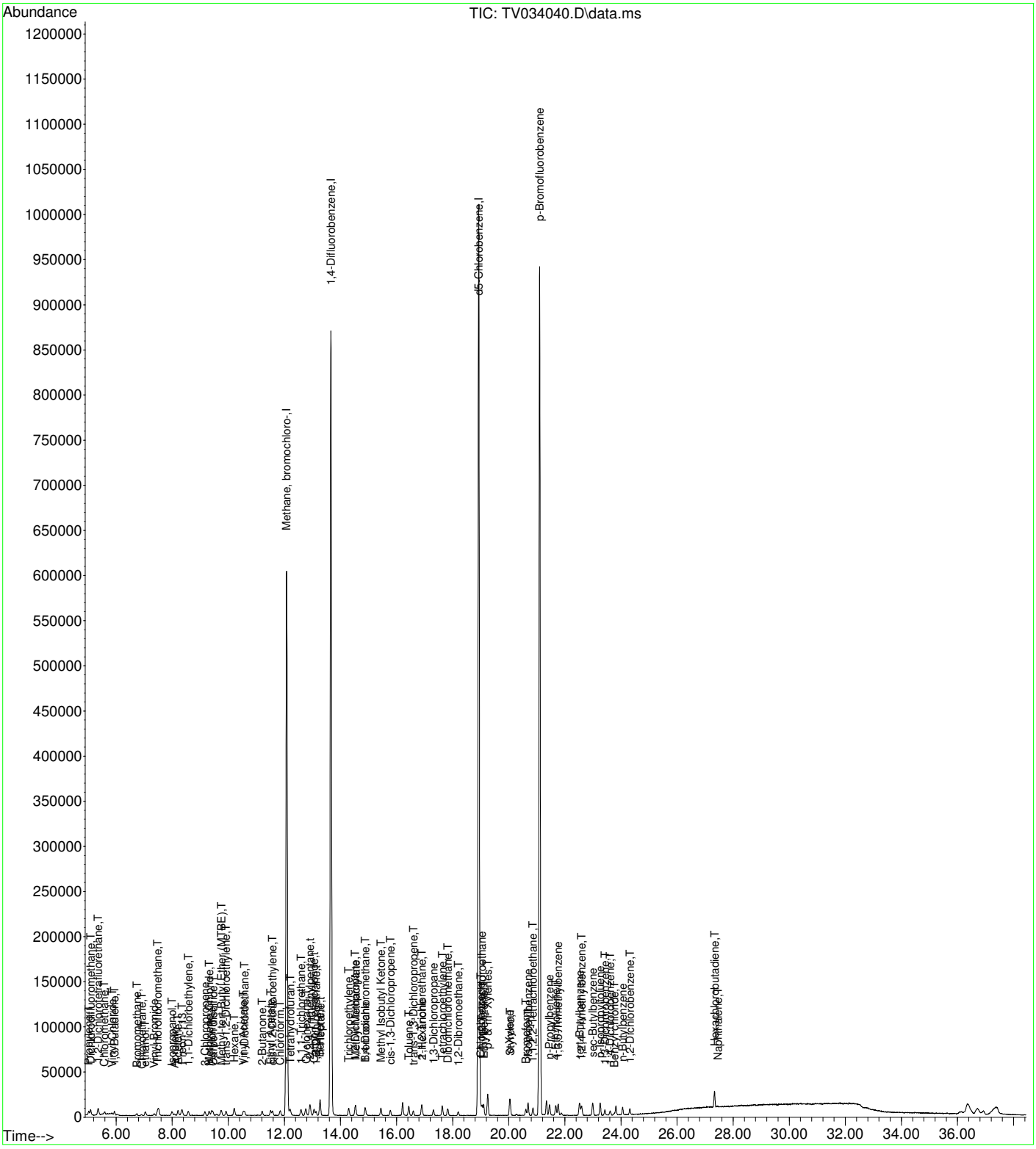
Quant Time: Dec 08 17:01:59 2025
Quant Method : C:\MassHunter\GCMS\1\methods\AIR-3-DEC052025.M
Quant Title : TO15 VOC Analysis
QLast Update : Mon Dec 08 14:43:00 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
53) Dibromchloromethane	17.825	129	6798	0.09	ppbv	97
54) 1,2-Dibromoethane	18.202	107	4963	0.09	ppbv	98
56) Chlorobenzene	19.002	112	8712	0.10	ppbv #	86
57) 1,1,1,2-Tetrachloroethane	19.038	131	5353	0.10	ppbv	96
58) Ethylbenzene	19.105	91	15153	0.10	ppbv	96
59) p- & m- Xylenes	19.250	91	23875	0.20	ppbv	99
60) o-Xylene	20.031	91	12519	0.10	ppbv	100
61) Styrene	20.054	104	7534	0.09	ppbv #	74
62) Bromoform	20.610	173	6184	0.09	ppbv	97
63) n-Propylbenzene	21.449	91	18291	0.09	ppbv	100
64) Isopropylbenzene	20.690	105	16295	0.10	ppbv	100
65) 1,1,2,2-Tetrachloroeth...	20.861	83	7844	0.10	ppbv	95
66) p-Bromofluorobenzene	21.099	95	576743	8.63	ppbv	94
67) 4-Ethyltoluene	21.677	105	13390	0.08	ppbv	95
68) 1,3,5-Trimethylbenzene	21.758	105	13321	0.10	ppbv	91
69) tert-Butylbenzene	22.526	119	14686	0.10	ppbv #	62
70) 1,2,4-Trimethylbenzene	22.594	105	12310	0.09	ppbv #	99
71) sec-Butylbenzene	22.992	105	18859	0.09	ppbv #	100
72) p-Isopropyltoluene	23.256	119	14157	0.08	ppbv #	100
73) 1,3-Dichlorobenzene	23.426	146	4472	0.06	ppbv	93
74) 1,4-Dichlorobenzene	23.616	146	3478	0.05	ppbv	96
75) Benzyl chloride	23.758	126	575	0.03	ppbv #	1
76) n-Butylbenzene	24.060	91	8544	0.06	ppbv #	84
77) 1,2-Dichlorobenzene	24.320	146	4749	0.06	ppbv	98
79) Hexachlorobutadiene	27.339	225	6185	0.08	ppbv	97
80) Naphthalene	27.455	128	1843	0.02	ppbv #	69

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

Data Path : C:\MassHunter\GCMS\1\data\2025\12-DEC\120525\
Data File : TV034040.D
Acq On : 05 Dec 2025 06:40 pm
Operator : YR
Sample : SEQ-CAL3
Misc : QBTO3091525A
ALS Vial : 12 Sample Multiplier: 1
InstName : TO15_AIR3

Quant Time: Dec 08 17:01:59 2025
Quant Method : C:\MassHunter\GCMS\1\methods\AIR-3-DEC052025.M
Quant Title : TO15 VOC Analysis
QLast Update : Mon Dec 08 14:43:00 2025
Response via : Initial Calibration



Data Path : C:\MassHunter\GCMS\1\data\2025\12-DEC\120525\
Data File : TV034041.D
Acq On : 05 Dec 2025 07:26 pm
Operator : YR
Sample : SEQ-CAL4
Misc : QBTO3091525A
ALS Vial : 12 Sample Multiplier: 1
InstName : TO15_AIR3

Quant Time: Dec 08 17:02:03 2025
Quant Method : C:\MassHunter\GCMS\1\methods\AIR-3-DEC052025.M
Quant Title : TO15 VOC Analysis
QLast Update : Mon Dec 08 14:43:00 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Methane, bromochloro-	12.076	49	673054	10.00	ppbv	#-0.03
39) 1,4-Difluorobenzene	13.658	114	1062632	10.00	ppbv	-0.03
55) d5-Chlorobenzene	18.928	117	922248	10.00	ppbv	#-0.03
Target Compounds						Qvalue
2) Propylene	5.022	42	13672	0.50	ppbv	# 92
3) Dichlorodifluoromethane	5.089	85	40980	0.47	ppbv	# 95
4) 1,2-Dichlorotetrafluor...	5.356	85	34055	0.45	ppbv	98
5) Chloromethane	5.585	50	20505	0.49	ppbv	100
6) Vinyl Chloride	5.861	62	16965	0.48	ppbv	97
7) 1,3-Butadiene	5.935	54	17130	0.48	ppbv	97
8) Bromomethane	6.729	94	12559	0.46	ppbv	96
9) Chloroethane	6.896	64	9138	0.48	ppbv	# 89
10) ethanol	7.035	45	19920	0.86	ppbv	88
11) Vinyl Bromide	7.350	106	11983	0.46	ppbv	98
12) Trichlorofluoromethane	7.475	101	40686	0.46	ppbv	98
13) Isopropanol	7.977	45	45933	0.49	ppbv	100
14) Acrolein	8.083	56	9420	0.48	ppbv	# 100
15) Acetone	8.189	43	44244	0.60	ppbv	97
16) Freon-113	8.340	101	27832	0.47	ppbv	95
17) 1,1-Dichloroethylene	8.568	61	30576	0.47	ppbv	86
18) 3-Chloropropene	9.163	41	29988	0.49	ppbv	90
19) Methylene Chloride	9.318	49	28405	0.49	ppbv	# 72
20) Acrylonitrile	9.395	53	24576	0.59	ppbv	# 100
21) Carbon disulfide	9.449	76	40669	0.48	ppbv	# 78
22) Methyl-tert-Butyl Ethe...	9.729	73	45069	0.48	ppbv	# 80
23) trans-1,2-Dichloroethy...	9.919	61	28237	0.48	ppbv	88
24) Hexane	10.205	57	32763	0.47	ppbv	92
25) Vinyl Acetate	10.530	43	51049	0.51	ppbv	# 99
26) 1,1-Dichloroethane	10.581	63	33482	0.49	ppbv	# 98
27) 2-Butanone	11.192	43	49845	0.49	ppbv	# 84
28) Ethyl Acetate	11.498	43	56899	0.49	ppbv	# 93
29) cis-1,2-Dichloroethylene	11.578	61	27527	0.47	ppbv	84
30) Chloroform	11.851	83	33714	0.47	ppbv	# 94
31) Tetrahydrofuran	12.192	42	29968	0.50	ppbv	# 81
32) 1,1,1-Trichlorethane	12.591	97	38346	0.48	ppbv	94
33) Cyclohexane	12.768	56	37090	0.49	ppbv	# 79
34) 2,2,4-Trimethylpentane	12.909	57	106672	0.48	ppbv	100
35) Carbon Tetrachloride	13.060	117	38897	0.48	ppbv	# 92
36) 1,2-Dichloroethane	13.125	62	28395	0.49	ppbv	# 98
37) Benzene	13.260	78	46246	0.50	ppbv	# 100
38) n-Heptane	13.272	43	48294	0.52	ppbv	# 98
40) Trichloroethylene	14.292	95	22042	0.50	ppbv	98
41) 1,2-Dichloropropane	14.523	63	21131	0.50	ppbv	# 95
42) Methyl Methacrylate	14.539	69	17712	0.50	ppbv	# 69
43) 1,4-Dioxane	14.858	88	10609	0.51	ppbv	# 100
44) Bromodichloromethane	14.880	83	36872	0.49	ppbv	# 92
45) Methyl Isobutyl Ketone	15.433	43	59203	0.50	ppbv	95
46) cis-1,3-Dichloropropene	15.780	75	26573	0.48	ppbv	# 91
47) Toluene	16.430	91	58528	0.50	ppbv	97
48) trans-1,3-Dichloropropene	16.591	75	24989	0.47	ppbv	# 92
49) 1,1,2-Trichlorethane	16.886	97	18318	0.48	ppbv	# 90
50) 2-Hexanone	16.906	43	44543	0.45	ppbv	# 96
51) 1,3-Dichloropropane	17.311	76	28267	0.49	ppbv	# 100
52) Tetrachloroethylene	17.629	166	28085	0.48	ppbv	98

Data Path : C:\MassHunter\GCMS\1\data\2025\12-DEC\120525\
Data File : TV034041.D
Acq On : 05 Dec 2025 07:26 pm
Operator : YR
Sample : SEQ-CAL4
Misc : QBTO3091525A
ALS Vial : 12 Sample Multiplier: 1
InstName : TO15_AIR3

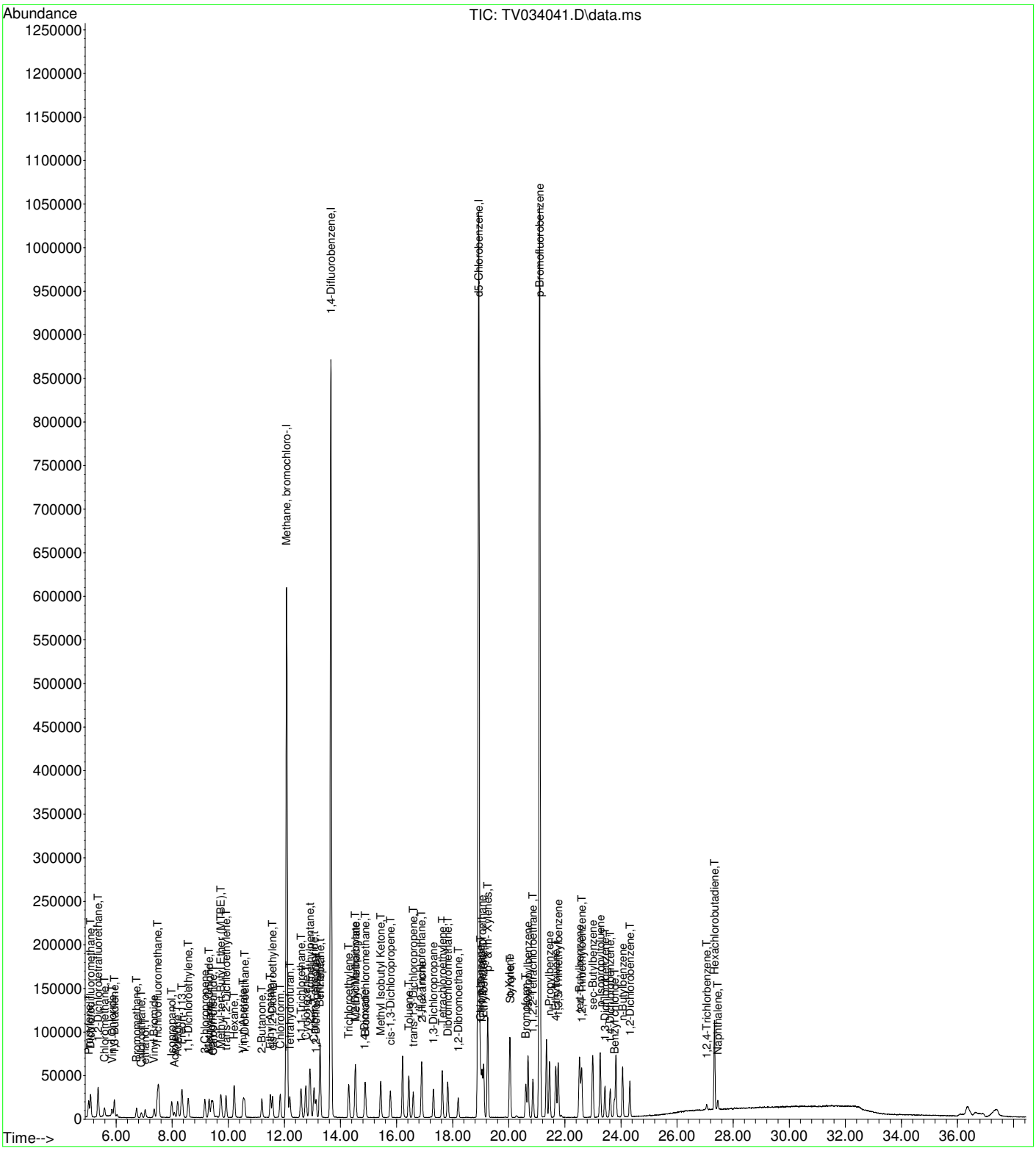
Quant Time: Dec 08 17:02:03 2025
Quant Method : C:\MassHunter\GCMS\1\methods\AIR-3-DEC052025.M
Quant Title : TO15 VOC Analysis
QLast Update : Mon Dec 08 14:43:00 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
53) Dibromchloromethane	17.822	129	36092	0.48	ppbv		99
54) 1,2-Dibromoethane	18.198	107	27162	0.47	ppbv		99
56) Chlorobenzene	18.996	112	43133	0.50	ppbv	#	100
57) 1,1,1,2-Tetrachloroethane	19.044	131	26569	0.51	ppbv		97
58) Ethylbenzene	19.102	91	75291	0.49	ppbv		98
59) p- & m- Xylenes	19.250	91	116815	0.98	ppbv		99
60) o-Xylene	20.031	91	60223	0.49	ppbv		99
61) Styrene	20.054	104	39468	0.46	ppbv	#	74
62) Bromoform	20.607	173	32660	0.47	ppbv		97
63) n-Propylbenzene	21.452	91	93224	0.46	ppbv		100
64) Isopropylbenzene	20.684	105	83632	0.49	ppbv		100
65) 1,1,2,2-Tetrachloroeth...	20.861	83	39155	0.48	ppbv		96
66) p-Bromofluorobenzene	21.098	95	642036	9.48	ppbv		95
67) 4-Ethyltoluene	21.677	105	74838	0.46	ppbv		96
68) 1,3,5-Trimethylbenzene	21.761	105	65677	0.47	ppbv		93
69) tert-Butylbenzene	22.520	119	75120	0.48	ppbv	#	100
70) 1,2,4-Trimethylbenzene	22.600	105	65546	0.47	ppbv	#	88
71) sec-Butylbenzene	22.996	105	99526	0.48	ppbv	#	93
72) p-Isopropyltoluene	23.259	119	78373	0.46	ppbv	#	100
73) 1,3-Dichlorobenzene	23.430	146	27030	0.35	ppbv		98
74) 1,4-Dichlorobenzene	23.619	146	23790	0.33	ppbv		99
75) Benzyl chloride	23.764	126	5614	0.29	ppbv	#	1
76) n-Butylbenzene	24.060	91	56184	0.38	ppbv	#	83
77) 1,2-Dichlorobenzene	24.317	146	29324	0.38	ppbv		99
78) 1,2,4-Trichlorbenzene	27.053	180	3505	0.09	ppbv		89
79) Hexachlorobutadiene	27.333	225	34580	0.44	ppbv		96
80) Naphthalene	27.452	128	13547	0.12	ppbv		99

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

Data Path : C:\MassHunter\GCMS\1\data\2025\12-DEC\120525\
Data File : TV034041.D
Acq On : 05 Dec 2025 07:26 pm
Operator : YR
Sample : SEQ-CAL4
Misc : QBTO3091525A
ALS Vial : 12 Sample Multiplier: 1
InstName : TO15_AIR3

Quant Time: Dec 08 17:02:03 2025
Quant Method : C:\MassHunter\GCMS\1\methods\AIR-3-DEC052025.M
Quant Title : TO15 VOC Analysis
QLast Update : Mon Dec 08 14:43:00 2025
Response via : Initial Calibration



Data Path : C:\MassHunter\GCMS\1\data\2025\12-DEC\120525\
Data File : TV034042.D
Acq On : 05 Dec 2025 08:12 pm
Operator : YR
Sample : SEQ-CAL5
Misc : QBTO3091525A
ALS Vial : 12 Sample Multiplier: 1
InstName : TO15_AIR3

Quant Time: Dec 08 17:02:07 2025
Quant Method : C:\MassHunter\GCMS\1\methods\AIR-3-DEC052025.M
Quant Title : TO15 VOC Analysis
QLast Update : Mon Dec 08 14:43:00 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Methane, bromochloro-	12.079	49	662976	10.00	ppbv		#-0.03
39) 1,4-Difluorobenzene	13.658	114	1034095	10.00	ppbv		-0.03
55) d5-Chlorobenzene	18.928	117	902871	10.00	ppbv		#-0.03
Target Compounds							Qvalue
2) Propylene	5.019	42	64205	2.37	ppbv		98
3) Dichlorodifluoromethane	5.089	85	186733	2.19	ppbv	#	96
4) 1,2-Dichlorotetrafluor...	5.356	85	175780	2.35	ppbv		96
5) Chloromethane	5.585	50	98666	2.38	ppbv	#	86
6) Vinyl Chloride	5.855	62	81517	2.36	ppbv		98
7) 1,3-Butadiene	5.938	54	83522	2.38	ppbv		97
8) Bromomethane	6.729	94	63050	2.36	ppbv		98
9) Chloroethane	6.896	64	44134	2.36	ppbv	#	91
10) ethanol	7.022	45	73067	3.19	ppbv		88
11) Vinyl Bromide	7.353	106	61438	2.37	ppbv		100
12) Trichlorofluoromethane	7.478	101	207324	2.40	ppbv		98
13) Isopropanol	7.964	45	223592	2.44	ppbv		100
14) Acrolein	8.070	56	45947	2.35	ppbv	#	100
15) Acetone	8.182	43	198976	2.75	ppbv		96
16) Freon-113	8.343	101	138632	2.40	ppbv		95
17) 1,1-Dichloroethylene	8.572	61	154547	2.42	ppbv		84
18) 3-Chloropropene	9.163	41	150599	2.50	ppbv		90
19) Methylene Chloride	9.314	49	139031	2.44	ppbv	#	72
20) Acrylonitrile	9.398	53	113796	2.77	ppbv	#	100
21) Carbon disulfide	9.449	76	204555	2.44	ppbv	#	81
22) Methyl-tert-Butyl Ethe...	9.723	73	222436	2.40	ppbv	#	80
23) trans-1,2-Dichloroethy...	9.919	61	140390	2.42	ppbv		86
24) Hexane	10.211	57	167927	2.45	ppbv		95
25) Vinyl Acetate	10.530	43	232226	2.34	ppbv	#	99
26) 1,1-Dichloroethane	10.581	63	164300	2.44	ppbv	#	97
27) 2-Butanone	11.192	43	250130	2.50	ppbv	#	84
28) Ethyl Acetate	11.494	43	291473	2.53	ppbv	#	93
29) cis-1,2-Dichloroethylene	11.578	61	137526	2.38	ppbv		82
30) Chloroform	11.854	83	169728	2.40	ppbv	#	94
31) Tetrahydrofuran	12.182	42	145480	2.49	ppbv	#	82
32) 1,1,1-Trichlorethane	12.594	97	187748	2.38	ppbv		95
33) Cyclohexane	12.768	56	182473	2.45	ppbv	#	79
34) 2,2,4-Trimethylpentane	12.912	57	536091	2.46	ppbv		98
35) Carbon Tetrachloride	13.060	117	197916	2.47	ppbv	#	58
36) 1,2-Dichloroethane	13.131	62	139218	2.42	ppbv		100
37) Benzene	13.263	78	224905	2.45	ppbv	#	100
38) n-Heptane	13.279	43	234091	2.55	ppbv	#	77
40) Trichloroethylene	14.295	95	105489	2.47	ppbv		97
41) 1,2-Dichloropropane	14.523	63	103957	2.53	ppbv	#	95
42) Methyl Methacrylate	14.539	69	85935	2.51	ppbv	#	78
43) 1,4-Dioxane	14.851	88	50204	2.46	ppbv	#	100
44) Bromodichloromethane	14.886	83	186061	2.52	ppbv	#	93
45) Methyl Isobutyl Ketone	15.430	43	297556	2.59	ppbv		95
46) cis-1,3-Dichloropropene	15.780	75	135924	2.51	ppbv	#	92
47) Toluene	16.436	91	285593	2.51	ppbv		99
48) trans-1,3-Dichloropropene	16.594	75	127279	2.48	ppbv	#	92
49) 1,1,2-Trichlorethane	16.886	97	93016	2.52	ppbv	#	90
50) 2-Hexanone	16.896	43	253198	2.60	ppbv		98
51) 1,3-Dichloropropane	17.314	76	141030	2.52	ppbv	#	100
52) Tetrachloroethylene	17.629	166	140616	2.48	ppbv		97

Data Path : C:\MassHunter\GCMS\1\data\2025\12-DEC\120525\
Data File : TV034042.D
Acq On : 05 Dec 2025 08:12 pm
Operator : YR
Sample : SEQ-CAL5
Misc : QBTO3091525A
ALS Vial : 12 Sample Multiplier: 1
InstName : TO15_AIR3

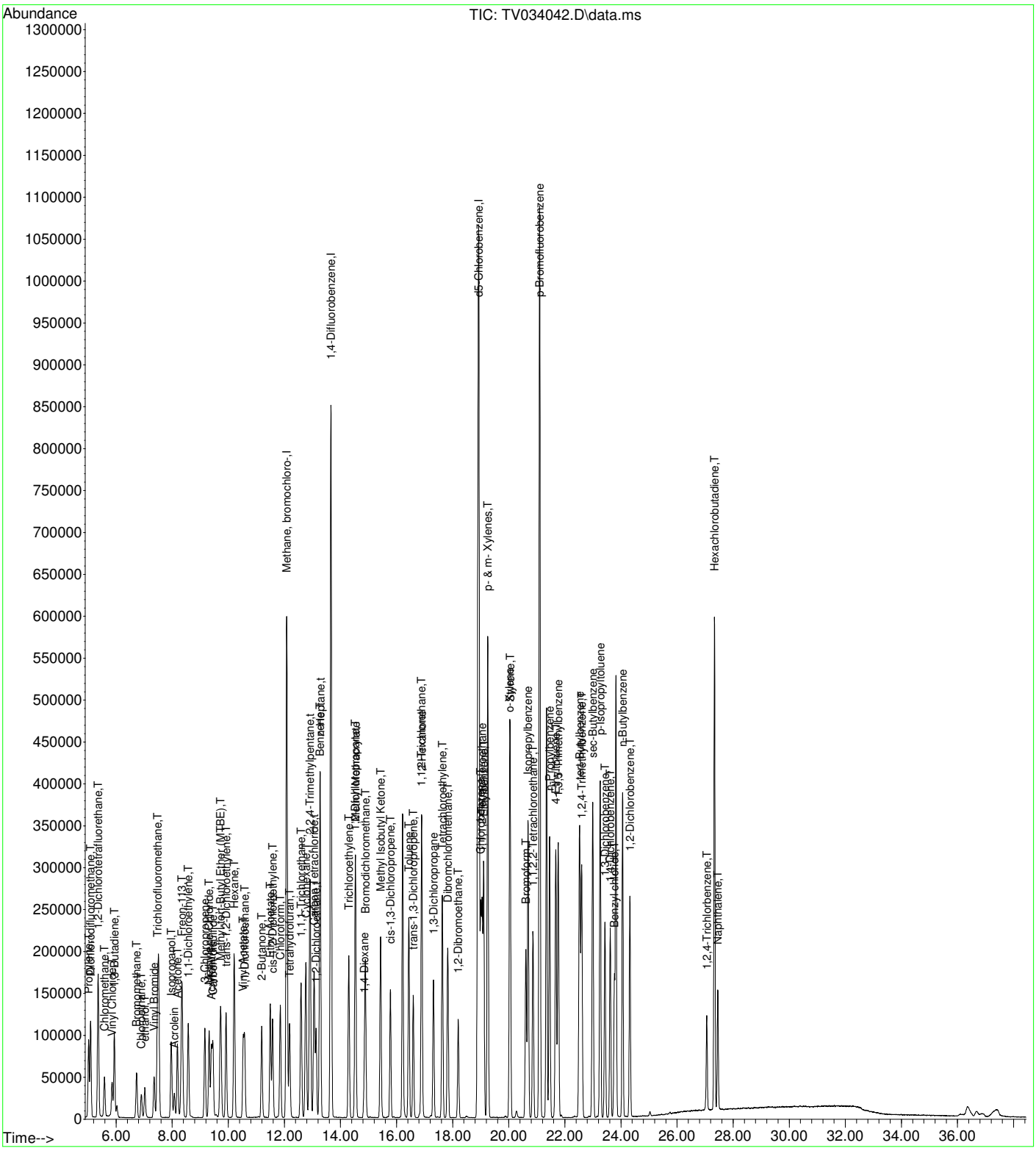
Quant Time: Dec 08 17:02:07 2025
Quant Method : C:\MassHunter\GCMS\1\methods\AIR-3-DEC052025.M
Quant Title : TO15 VOC Analysis
QLast Update : Mon Dec 08 14:43:00 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
53) Dibromchloromethane	17.825	129	184392	2.51	ppbv		99
54) 1,2-Dibromoethane	18.195	107	138564	2.47	ppbv		99
56) Chlorobenzene	18.999	112	211948	2.50	ppbv	#	100
57) 1,1,1,2-Tetrachloroethane	19.047	131	127476	2.50	ppbv		99
58) Ethylbenzene	19.105	91	378758	2.54	ppbv		97
59) p- & m- Xylenes	19.250	91	584514	5.03	ppbv		99
60) o-Xylene	20.031	91	303451	2.52	ppbv		99
61) Styrene	20.050	104	207040	2.48	ppbv	#	74
62) Bromoform	20.610	173	172138	2.54	ppbv		98
63) n-Propylbenzene	21.455	91	510709	2.58	ppbv		100
64) Isopropylbenzene	20.687	105	425481	2.56	ppbv		100
65) 1,1,2,2-Tetrachloroeth...	20.864	83	203679	2.55	ppbv	#	97
66) p-Bromofluorobenzene	21.098	95	667614	10.07	ppbv		94
67) 4-Ethyltoluene	21.677	105	409221	2.59	ppbv		98
68) 1,3,5-Trimethylbenzene	21.761	105	345532	2.54	ppbv		94
69) tert-Butylbenzene	22.526	119	387506	2.53	ppbv	#	62
70) 1,2,4-Trimethylbenzene	22.597	105	350151	2.54	ppbv	#	89
71) sec-Butylbenzene	22.992	105	523778	2.57	ppbv	#	100
72) p-Isopropyltoluene	23.259	119	434853	2.58	ppbv	#	100
73) 1,3-Dichlorobenzene	23.429	146	181923	2.44	ppbv		99
74) 1,4-Dichlorobenzene	23.619	146	166500	2.35	ppbv		99
75) Benzyl chloride	23.767	126	44746	2.38	ppbv	#	1
76) n-Butylbenzene	24.060	91	384336	2.65	ppbv	#	83
77) 1,2-Dichlorobenzene	24.320	146	187265	2.48	ppbv		99
78) 1,2,4-Trichlorbenzene	27.060	180	58265	1.57	ppbv		96
79) Hexachlorobutadiene	27.333	225	197649	2.55	ppbv		97
80) Naphthalene	27.452	128	184665	1.73	ppbv		99

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

Data Path : C:\MassHunter\GCMS\1\data\2025\12-DEC\120525\
Data File : TV034042.D
Acq On : 05 Dec 2025 08:12 pm
Operator : YR
Sample : SEQ-CAL5
Misc : QBTO3091525A
ALS Vial : 12 Sample Multiplier: 1
InstName : TO15_AIR3

Quant Time: Dec 08 17:02:07 2025
Quant Method : C:\MassHunter\GCMS\1\methods\AIR-3-DEC052025.M
Quant Title : TO15 VOC Analysis
QLast Update : Mon Dec 08 14:43:00 2025
Response via : Initial Calibration



Data Path : C:\MassHunter\GCMS\1\data\2025\12-DEC\120525\
Data File : TV034043.D
Acq On : 05 Dec 2025 08:58 pm
Operator : YR
Sample : SEQ-CAL6
Misc : QBTO3091525A
ALS Vial : 12 Sample Multiplier: 1
InstName : TO15_AIR3

Quant Time: Dec 08 17:02:11 2025
Quant Method : C:\MassHunter\GCMS\1\methods\AIR-3-DEC052025.M
Quant Title : TO15 VOC Analysis
QLast Update : Mon Dec 08 14:43:00 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Methane, bromochloro-	12.083	49	649460	10.00	ppbv		#-0.03
39) 1,4-Difluorobenzene	13.661	114	1019575	10.00	ppbv		-0.03
55) d5-Chlorobenzene	18.928	117	907096	10.00	ppbv		#-0.03
Target Compounds							Qvalue
2) Propylene	5.019	42	128349	4.83	ppbv		97
3) Dichlorodifluoromethane	5.089	85	414086	4.96	ppbv	#	96
4) 1,2-Dichlorotetrafluor...	5.359	85	353555	4.84	ppbv		96
5) Chloromethane	5.581	50	195766	4.82	ppbv		100
6) Vinyl Chloride	5.855	62	166370	4.91	ppbv		96
7) 1,3-Butadiene	5.935	54	167930	4.89	ppbv		98
8) Bromomethane	6.729	94	126646	4.85	ppbv		99
9) Chloroethane	6.896	64	87251	4.77	ppbv	#	90
10) ethanol	7.022	45	90479	4.04	ppbv		88
11) Vinyl Bromide	7.353	106	123041	4.85	ppbv		100
12) Trichlorofluoromethane	7.478	101	412637	4.87	ppbv		99
13) Isopropanol	7.964	45	445183	4.96	ppbv		100
14) Acrolein	8.073	56	91271	4.77	ppbv	#	100
15) Acetone	8.182	43	331864	4.68	ppbv		96
16) Freon-113	8.343	101	279157	4.93	ppbv		96
17) 1,1-Dichloroethylene	8.572	61	310144	4.95	ppbv		84
18) 3-Chloropropene	9.163	41	296617	5.03	ppbv		89
19) Methylene Chloride	9.314	49	273524	4.91	ppbv	#	72
20) Acrylonitrile	9.398	53	185881	4.62	ppbv	#	100
21) Carbon disulfide	9.449	76	402966	4.90	ppbv	#	83
22) Methyl-tert-Butyl Ethe...	9.723	73	445641	4.92	ppbv	#	81
23) trans-1,2-Dichloroethy...	9.919	61	281054	4.95	ppbv		86
24) Hexane	10.208	57	332685	4.95	ppbv		95
25) Vinyl Acetate	10.530	43	415898	4.28	ppbv	#	99
26) 1,1-Dichloroethane	10.581	63	326266	4.94	ppbv	#	97
27) 2-Butanone	11.189	43	480232	4.90	ppbv	#	84
28) Ethyl Acetate	11.497	43	568194	5.04	ppbv	#	93
29) cis-1,2-Dichloroethylene	11.578	61	272472	4.81	ppbv		83
30) Chloroform	11.858	83	340566	4.92	ppbv	#	94
31) Tetrahydrofuran	12.182	42	285189	4.98	ppbv	#	83
32) 1,1,1-Trichlorethane	12.594	97	376306	4.86	ppbv		95
33) Cyclohexane	12.764	56	357969	4.91	ppbv	#	79
34) 2,2,4-Trimethylpentane	12.915	57	1053599	4.94	ppbv		98
35) Carbon Tetrachloride	13.060	117	393019	5.01	ppbv		100
36) 1,2-Dichloroethane	13.131	62	277761	4.92	ppbv	#	86
37) Benzene	13.263	78	435948	4.85	ppbv	#	100
38) n-Heptane	13.282	43	455055	5.07	ppbv	#	95
40) Trichloroethylene	14.298	95	209779	4.98	ppbv		97
41) 1,2-Dichloropropane	14.526	63	205791	5.09	ppbv	#	95
42) Methyl Methacrylate	14.539	69	170037	5.03	ppbv	#	78
43) 1,4-Dioxane	14.848	88	100778	5.02	ppbv	#	100
44) Bromodichloromethane	14.890	83	369860	5.08	ppbv	#	94
45) Methyl Isobutyl Ketone	15.427	43	588851	5.20	ppbv		96
46) cis-1,3-Dichloropropene	15.780	75	272321	5.11	ppbv	#	93
47) Toluene	16.436	91	564543	5.03	ppbv		99
48) trans-1,3-Dichloropropene	16.594	75	260220	5.14	ppbv	#	93
49) 1,1,2-Trichlorethane	16.886	97	184814	5.07	ppbv	#	90
50) 2-Hexanone	16.899	43	508398	5.30	ppbv	#	75
51) 1,3-Dichloropropane	17.314	76	282390	5.11	ppbv	#	100
52) Tetrachloroethylene	17.629	166	279610	5.01	ppbv		98

Quantitation Report (QT Reviewed)

Data Path : C:\MassHunter\GCMS\1\data\2025\12-DEC\120525\
Data File : TV034043.D
Acq On : 05 Dec 2025 08:58 pm
Operator : YR
Sample : SEQ-CAL6
Misc : QBTO3091525A
ALS Vial : 12 Sample Multiplier: 1
InstName : TO15_AIR3

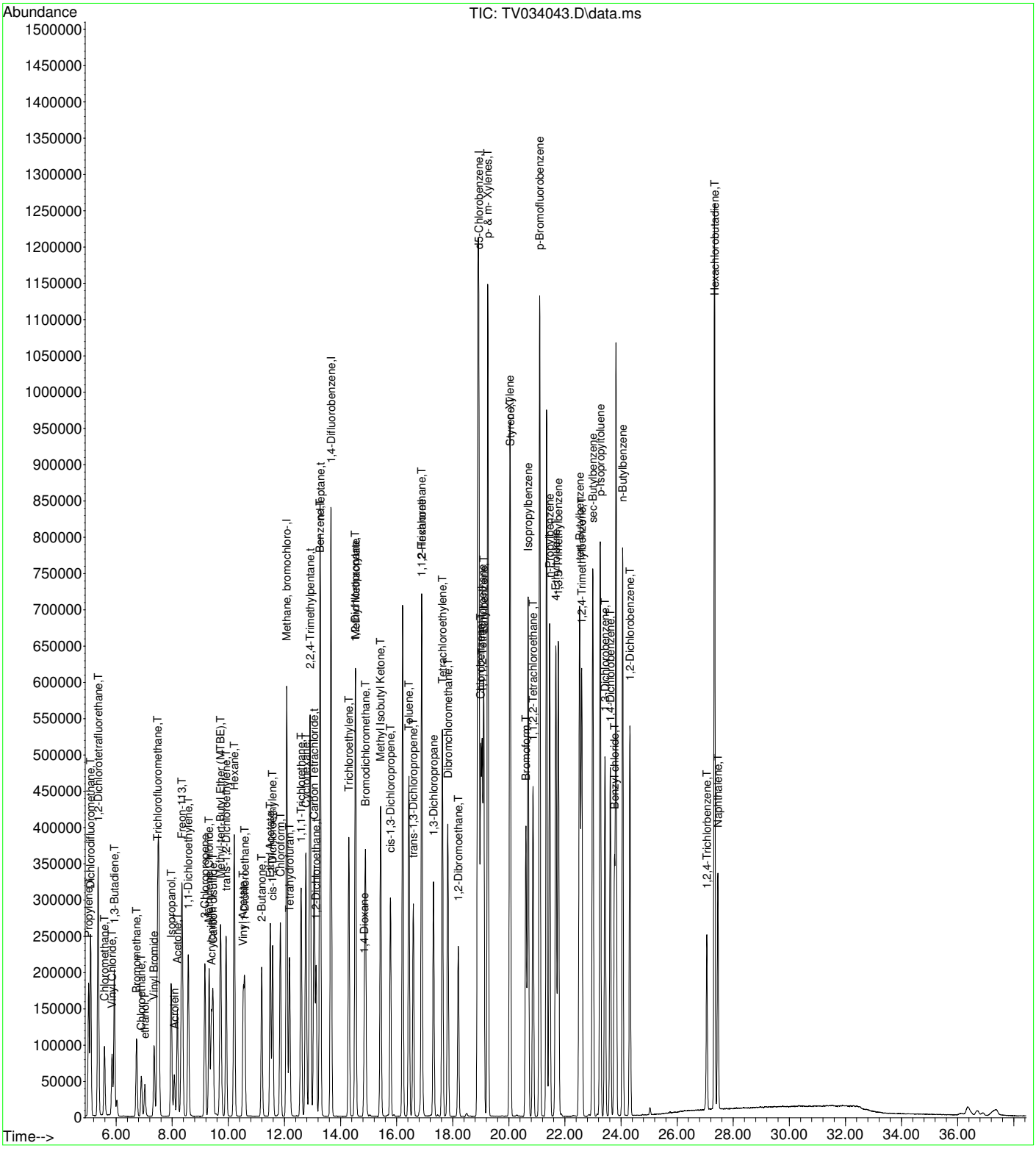
Quant Time: Dec 08 17:02:11 2025
Quant Method : C:\MassHunter\GCMS\1\methods\AIR-3-DEC052025.M
Quant Title : TO15 VOC Analysis
QLast Update : Mon Dec 08 14:43:00 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
53) Dibromchloromethane	17.825	129	368404	5.08	ppbv		99
54) 1,2-Dibromoethane	18.198	107	280709	5.07	ppbv		99
56) Chlorobenzene	18.999	112	421657	4.95	ppbv	#	100
57) 1,1,1,2-Tetrachloroethane	19.047	131	254362	4.96	ppbv		99
58) Ethylbenzene	19.105	91	753187	5.02	ppbv		97
59) p- & m- Xylenes	19.250	91	1168724	10.02	ppbv		99
60) o-Xylene	20.034	91	599366	4.96	ppbv		99
61) Styrene	20.053	104	427910	5.10	ppbv	#	74
62) Bromoform	20.610	173	338277	4.96	ppbv		98
63) n-Propylbenzene	21.455	91	1025034	5.16	ppbv		100
64) Isopropylbenzene	20.687	105	848160	5.08	ppbv		100
65) 1,1,2,2-Tetrachloroeth...	20.864	83	414508	5.17	ppbv		98
66) p-Bromofluorobenzene	21.098	95	698580	10.48	ppbv		94
67) 4-Ethyltoluene	21.677	105	826003	5.21	ppbv		98
68) 1,3,5-Trimethylbenzene	21.764	105	695225	5.08	ppbv		94
69) tert-Butylbenzene	22.526	119	783313	5.10	ppbv	#	62
70) 1,2,4-Trimethylbenzene	22.600	105	711959	5.15	ppbv	#	88
71) sec-Butylbenzene	22.995	105	1058835	5.16	ppbv	#	100
72) p-Isopropyltoluene	23.259	119	880109	5.20	ppbv	#	99
73) 1,3-Dichlorobenzene	23.429	146	388535	5.19	ppbv		99
74) 1,4-Dichlorobenzene	23.619	146	363620	5.10	ppbv		99
75) Benzyl chloride	23.767	126	96239	5.10	ppbv	#	1
76) n-Butylbenzene	24.060	91	775627	5.33	ppbv	#	84
77) 1,2-Dichlorobenzene	24.320	146	397626	5.25	ppbv		98
78) 1,2,4-Trichlorbenzene	27.060	180	124461	3.34	ppbv		96
79) Hexachlorobutadiene	27.333	225	421968	5.42	ppbv		98
80) Naphthalene	27.452	128	418808	3.90	ppbv		100

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

Data Path : C:\MassHunter\GCMS\1\data\2025\12-DEC\120525\
Data File : TV034043.D
Acq On : 05 Dec 2025 08:58 pm
Operator : YR
Sample : SEQ-CAL6
Misc : QBTO3091525A
ALS Vial : 12 Sample Multiplier: 1
InstName : TO15_AIR3

Quant Time: Dec 08 17:02:11 2025
Quant Method : C:\MassHunter\GCMS\1\methods\AIR-3-DEC052025.M
Quant Title : TO15 VOC Analysis
QLast Update : Mon Dec 08 14:43:00 2025
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MassHunter\GCMS\1\data\2025\12-DEC\120525\
Data File : TV034044.D
Acq On : 05 Dec 2025 09:44 pm
Operator : YR
Sample : SEQ-CAL7
Misc : QBTO3091525A
ALS Vial : 12 Sample Multiplier: 1
InstName : TO15_AIR3

Quant Time: Dec 08 17:02:15 2025
Quant Method : C:\MassHunter\GCMS\1\methods\AIR-3-DEC052025.M
Quant Title : TO15 VOC Analysis
QLast Update : Mon Dec 08 14:43:00 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Methane, bromochloro-	12.086	49	642992	10.00	ppbv		#-0.03
39) 1,4-Difluorobenzene	13.661	114	1035578	10.00	ppbv		-0.03
55) d5-Chlorobenzene	18.931	117	926247	10.00	ppbv		#-0.03
Target Compounds							Qvalue
2) Propylene	5.019	42	258316	9.81	ppbv		98
3) Dichlorodifluoromethane	5.089	85	859587	10.40	ppbv	#	97
4) 1,2-Dichlorotetrafluor...	5.356	85	731842	10.11	ppbv		96
5) Chloromethane	5.581	50	398422	9.91	ppbv		99
6) Vinyl Chloride	5.855	62	344108	10.25	ppbv		96
7) 1,3-Butadiene	5.935	54	347695	10.22	ppbv		97
8) Bromomethane	6.729	94	260139	10.05	ppbv		99
9) Chloroethane	6.896	64	180662	9.98	ppbv		91
10) ethanol	7.022	45	178988	8.07	ppbv		88
11) Vinyl Bromide	7.356	106	251329	10.01	ppbv		99
12) Trichlorofluoromethane	7.478	101	850479	10.14	ppbv		99
13) Isopropanol	7.964	45	904181	10.18	ppbv		100
14) Acrolein	8.073	56	185379	9.79	ppbv	#	100
15) Acetone	8.182	43	672023	9.57	ppbv		95
16) Freon-113	8.346	101	569437	10.16	ppbv		96
17) 1,1-Dichloroethylene	8.572	61	626189	10.10	ppbv		85
18) 3-Chloropropene	9.166	41	600839	10.28	ppbv		89
19) Methylene Chloride	9.318	49	552168	10.01	ppbv	#	72
20) Acrylonitrile	9.398	53	374576	9.40	ppbv	#	100
21) Carbon disulfide	9.449	76	822371	10.11	ppbv	#	84
22) Methyl-tert-Butyl Ethe...	9.719	73	906543	10.10	ppbv	#	81
23) trans-1,2-Dichloroethy...	9.922	61	574048	10.21	ppbv		86
24) Hexane	10.211	57	670041	10.07	ppbv		96
25) Vinyl Acetate	10.530	43	911695	9.47	ppbv	#	99
26) 1,1-Dichloroethane	10.584	63	657472	10.05	ppbv	#	97
27) 2-Butanone	11.192	43	960016	9.89	ppbv	#	84
28) Ethyl Acetate	11.497	43	1133318	10.16	ppbv	#	93
29) cis-1,2-Dichloroethylene	11.581	61	537468	9.59	ppbv		84
30) Chloroform	11.858	83	689092	10.06	ppbv	#	95
31) Tetrahydrofuran	12.179	42	566749	9.99	ppbv	#	83
32) 1,1,1-Trichlorethane	12.597	97	769538	10.04	ppbv		95
33) Cyclohexane	12.768	56	723809	10.03	ppbv	#	80
34) 2,2,4-Trimethylpentane	12.915	57	2106773	9.97	ppbv		98
35) Carbon Tetrachloride	13.063	117	797580	10.27	ppbv	#	59
36) 1,2-Dichloroethane	13.134	62	560771	10.03	ppbv		99
37) Benzene	13.266	78	878041	9.86	ppbv	#	100
38) n-Heptane	13.282	43	896443	10.09	ppbv	#	96
40) Trichloroethylene	14.298	95	432254	10.09	ppbv		98
41) 1,2-Dichloropropane	14.526	63	412688	10.04	ppbv	#	95
42) Methyl Methacrylate	14.542	69	342073	9.96	ppbv	#	69
43) 1,4-Dioxane	14.851	88	204182	10.01	ppbv	#	100
44) Bromodichloromethane	14.890	83	751147	10.15	ppbv	#	94
45) Methyl Isobutyl Ketone	15.430	43	1173987	10.20	ppbv		97
46) cis-1,3-Dichloropropene	15.780	75	557274	10.29	ppbv	#	93
47) Toluene	16.436	91	1151351	10.09	ppbv		98
48) trans-1,3-Dichloropropene	16.594	75	531083	10.33	ppbv	#	94
49) 1,1,2-Trichlorethane	16.890	97	378021	10.22	ppbv	#	89
50) 2-Hexanone	16.899	43	1044467	10.73	ppbv		98
51) 1,3-Dichloropropane	17.317	76	579605	10.33	ppbv	#	100
52) Tetrachloroethylene	17.632	166	579117	10.22	ppbv		98

Quantitation Report (QT Reviewed)

Data Path : C:\MassHunter\GCMS\1\data\2025\12-DEC\120525\
Data File : TV034044.D
Acq On : 05 Dec 2025 09:44 pm
Operator : YR
Sample : SEQ-CAL7
Misc : QBTO3091525A
ALS Vial : 12 Sample Multiplier: 1
InstName : TO15_AIR3

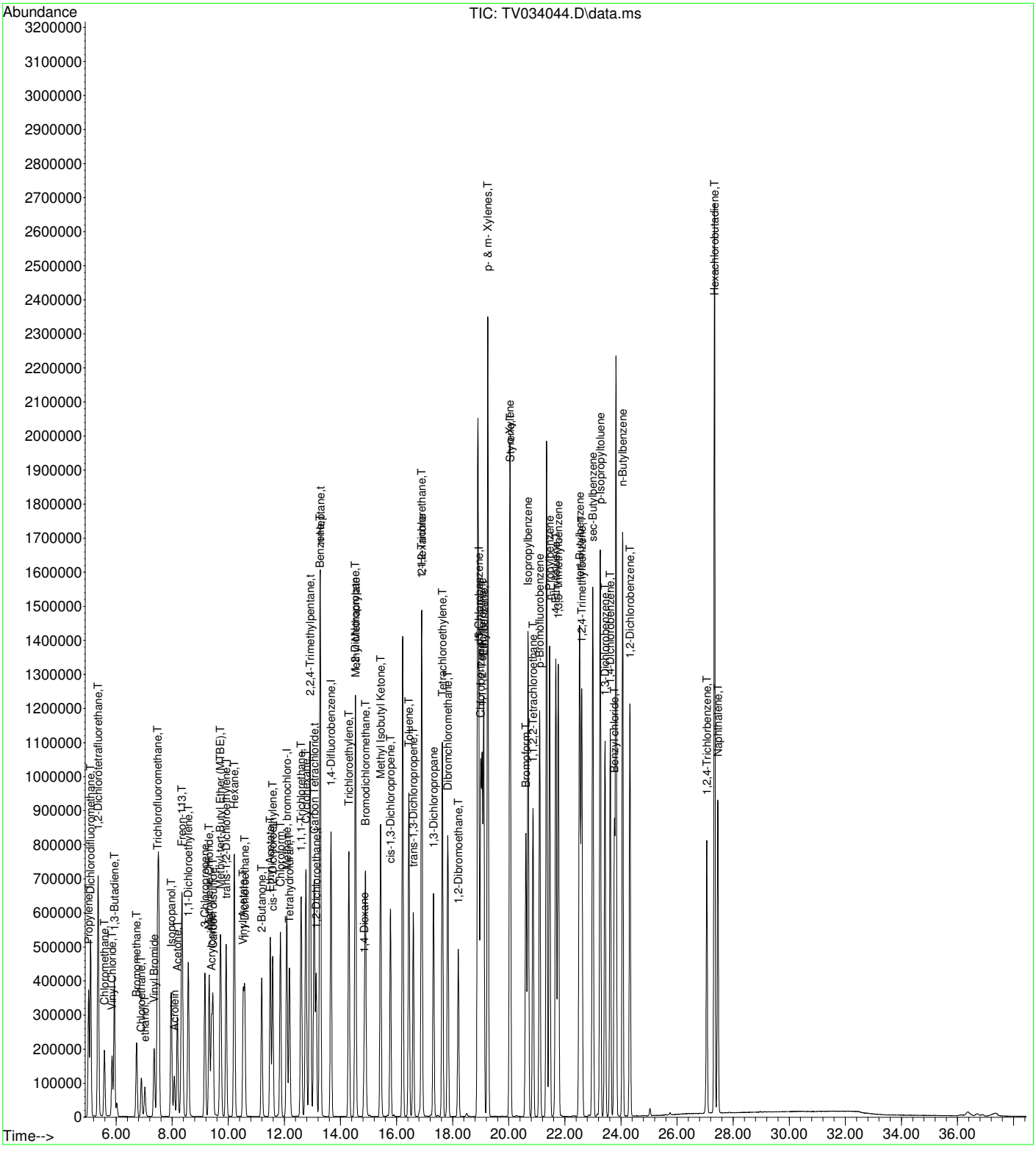
Quant Time: Dec 08 17:02:15 2025
Quant Method : C:\MassHunter\GCMS\1\methods\AIR-3-DEC052025.M
Quant Title : TO15 VOC Analysis
QLast Update : Mon Dec 08 14:43:00 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
53) Dibromchloromethane	17.825	129	759307	10.31	ppbv		99
54) 1,2-Dibromoethane	18.198	107	584394	10.40	ppbv		100
56) Chlorobenzene	18.999	112	871446	10.02	ppbv	#	100
57) 1,1,1,2-Tetrachloroethane	19.047	131	521715	9.96	ppbv		99
58) Ethylbenzene	19.108	91	1537325	10.04	ppbv		97
59) p- & m- Xylenes	19.250	91	2393242	20.08	ppbv		99
60) o-Xylene	20.034	91	1232819	9.98	ppbv		99
61) Styrene	20.053	104	887976	10.36	ppbv	#	74
62) Bromoform	20.610	173	711221	10.21	ppbv		98
63) n-Propylbenzene	21.455	91	2106356	10.38	ppbv		100
64) Isopropylbenzene	20.687	105	1714843	10.06	ppbv		100
65) 1,1,2,2-Tetrachloroeth...	20.864	83	831827	10.15	ppbv		98
66) p-Bromofluorobenzene	21.098	95	732349	10.76	ppbv		93
67) 4-Ethyltoluene	21.677	105	1702839	10.52	ppbv		96
68) 1,3,5-Trimethylbenzene	21.764	105	1427204	10.21	ppbv		92
69) tert-Butylbenzene	22.526	119	1604163	10.22	ppbv	#	62
70) 1,2,4-Trimethylbenzene	22.600	105	1472607	10.43	ppbv	#	88
71) sec-Butylbenzene	22.995	105	2164031	10.34	ppbv	#	100
72) p-Isopropyltoluene	23.262	119	1830398	10.59	ppbv	#	99
73) 1,3-Dichlorobenzene	23.429	146	870888	11.38	ppbv		99
74) 1,4-Dichlorobenzene	23.619	146	851980	11.70	ppbv		99
75) Benzyl chloride	23.767	126	237217	12.32	ppbv	#	1
76) n-Butylbenzene	24.060	91	1695682	11.41	ppbv	#	89
77) 1,2-Dichlorobenzene	24.320	146	878524	11.35	ppbv		99
78) 1,2,4-Trichlorbenzene	27.060	180	418258	10.98	ppbv		95
79) Hexachlorobutadiene	27.333	225	905923	11.40	ppbv		98
80) Naphthalene	27.455	128	1203802	10.97	ppbv		99

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

Data Path : C:\MassHunter\GCMS\1\data\2025\12-DEC\120525\
Data File : TV034044.D
Acq On : 05 Dec 2025 09:44 pm
Operator : YR
Sample : SEQ-CAL7
Misc : QBTO3091525A
ALS Vial : 12 Sample Multiplier: 1
InstName : TO15_AIR3

Quant Time: Dec 08 17:02:15 2025
Quant Method : C:\MassHunter\GCMS\1\methods\AIR-3-DEC052025.M
Quant Title : TO15 VOC Analysis
QLast Update : Mon Dec 08 14:43:00 2025
Response via : Initial Calibration



Data Path : C:\MassHunter\GCMS\1\data\2025\12-DEC\120525\
Data File : TV034045.D
Acq On : 05 Dec 2025 10:30 pm
Operator : YR
Sample : SEQ-CAL8
Misc : QBTO3091525A
ALS Vial : 12 Sample Multiplier: 1
InstName : TO15_AIR3

Quant Time: Dec 08 17:02:19 2025
Quant Method : C:\MassHunter\GCMS\1\methods\AIR-3-DEC052025.M
Quant Title : TO15 VOC Analysis
QLast Update : Mon Dec 08 14:43:00 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Methane, bromochloro-	12.086	49	651842	10.00	ppbv		-0.03
39) 1,4-Difluorobenzene	13.661	114	1066242	10.00	ppbv		-0.03
55) d5-Chlorobenzene	18.931	117	960257	10.00	ppbv	#	-0.03
Target Compounds							Qvalue
2) Propylene	5.019	42	389190	14.58	ppbv		99
3) Dichlorodifluoromethane	5.089	85	1313503	15.67	ppbv	#	97
4) 1,2-Dichlorotetrafluor...	5.356	85	1130776	15.41	ppbv		96
5) Chloromethane	5.581	50	601496	14.76	ppbv		100
6) Vinyl Chloride	5.854	62	527192	15.49	ppbv		96
7) 1,3-Butadiene	5.938	54	520019	15.08	ppbv		97
8) Bromomethane	6.729	94	400134	15.25	ppbv		99
9) Chloroethane	6.896	64	275938	15.04	ppbv		92
10) ethanol	7.025	45	266945	11.87	ppbv		88
11) Vinyl Bromide	7.356	106	387925	15.24	ppbv		100
12) Trichlorofluoromethane	7.475	101	1291105	15.19	ppbv		99
13) Isopropanol	7.964	45	1355517	15.05	ppbv		100
14) Acrolein	8.073	56	283231	14.76	ppbv	#	100
15) Acetone	8.182	43	997577	14.02	ppbv		96
16) Freon-113	8.346	101	867591	15.27	ppbv		96
17) 1,1-Dichloroethylene	8.575	61	944730	15.03	ppbv		85
18) 3-Chloropropene	9.166	41	890629	15.04	ppbv		90
19) Methylene Chloride	9.317	49	822036	14.70	ppbv	#	74
20) Acrylonitrile	9.398	53	564649	13.98	ppbv	#	100
21) Carbon disulfide	9.449	76	1249301	15.15	ppbv	#	85
22) Methyl-tert-Butyl Ethe...	9.719	73	1370468	15.06	ppbv	#	82
23) trans-1,2-Dichloroethy...	9.922	61	866944	15.21	ppbv		86
24) Hexane	10.214	57	1015225	15.05	ppbv		98
25) Vinyl Acetate	10.533	43	1467507	15.04	ppbv	#	99
26) 1,1-Dichloroethane	10.584	63	986506	14.87	ppbv	#	97
27) 2-Butanone	11.192	43	1440078	14.63	ppbv	#	85
28) Ethyl Acetate	11.497	43	1706796	15.09	ppbv	#	94
29) cis-1,2-Dichloroethylene	11.584	61	821912	14.46	ppbv		84
30) Chloroform	11.857	83	1045490	15.06	ppbv	#	95
31) Tetrahydrofuran	12.179	42	848017	14.74	ppbv	#	84
32) 1,1,1-Trichlorethane	12.597	97	1171600	15.08	ppbv		95
33) Cyclohexane	12.767	56	1088134	14.88	ppbv		80
34) 2,2,4-Trimethylpentane	12.919	57	3151061	14.72	ppbv		98
35) Carbon Tetrachloride	13.063	117	1209297	15.36	ppbv	#	59
36) 1,2-Dichloroethane	13.134	62	846408	14.94	ppbv	#	98
37) Benzene	13.266	78	1322242	14.65	ppbv	#	100
38) n-Heptane	13.282	43	1331565	14.78	ppbv	#	99
40) Trichloroethylene	14.301	95	657285	14.91	ppbv		98
41) 1,2-Dichloropropane	14.529	63	618658	14.62	ppbv	#	95
42) Methyl Methacrylate	14.539	69	526427	14.88	ppbv	#	78
43) 1,4-Dioxane	14.848	88	315630	15.02	ppbv	#	100
44) Bromodichloromethane	14.893	83	1134509	14.89	ppbv	#	95
45) Methyl Isobutyl Ketone	15.430	43	1743751	14.71	ppbv		98
46) cis-1,3-Dichloropropene	15.783	75	852486	15.29	ppbv	#	94
47) Toluene	16.439	91	1735040	14.77	ppbv		99
48) trans-1,3-Dichloropropene	16.597	75	823304	15.56	ppbv	#	94
49) 1,1,2-Trichlorethane	16.893	97	571148	14.99	ppbv	#	89
50) 2-Hexanone	16.899	43	1574540	15.70	ppbv		99
51) 1,3-Dichloropropane	17.317	76	883269	15.29	ppbv	#	100
52) Tetrachloroethylene	17.632	166	879682	15.07	ppbv		98

Data Path : C:\MassHunter\GCMS\1\data\2025\12-DEC\120525\
Data File : TV034045.D
Acq On : 05 Dec 2025 10:30 pm
Operator : YR
Sample : SEQ-CAL8
Misc : QBTO3091525A
ALS Vial : 12 Sample Multiplier: 1
InstName : TO15_AIR3

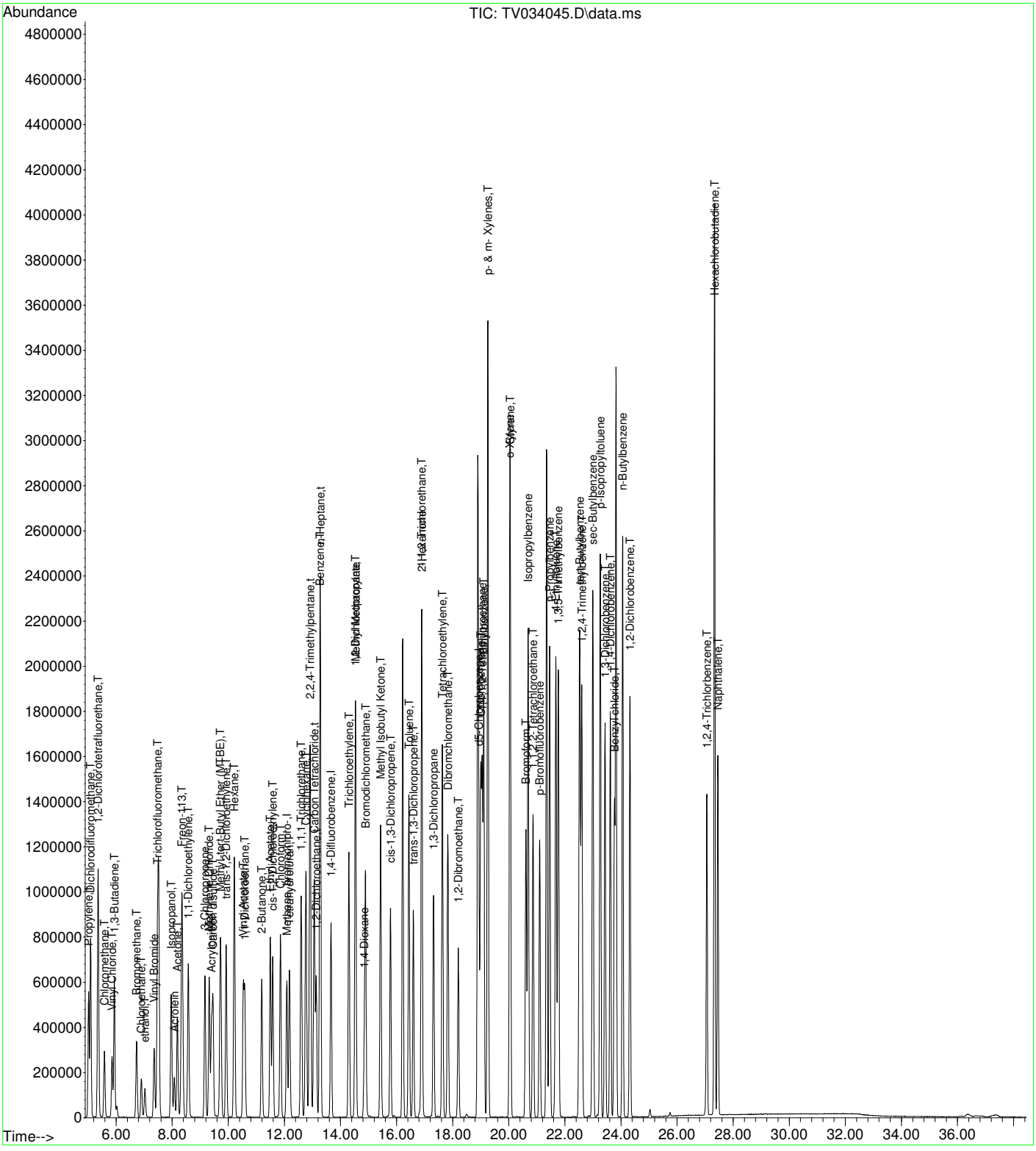
Quant Time: Dec 08 17:02:19 2025
Quant Method : C:\MassHunter\GCMS\1\methods\AIR-3-DEC052025.M
Quant Title : TO15 VOC Analysis
QLast Update : Mon Dec 08 14:43:00 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
53) Dibromchloromethane	17.828	129	1166947	15.40	ppbv	98
54) 1,2-Dibromoethane	18.201	107	901226	15.58	ppbv	100
56) Chlorobenzene	19.002	112	1324384	14.68	ppbv #	100
57) 1,1,1,2-Tetrachloroethane	19.050	131	790972	14.57	ppbv	99
58) Ethylbenzene	19.108	91	2334706	14.71	ppbv	97
59) p- & m- Xylenes	19.253	91	3635015	29.43	ppbv	99
60) o-Xylene	20.034	91	1877430	14.66	ppbv	99
61) Styrene	20.053	104	1362421	15.34	ppbv #	74
62) Bromoform	20.610	173	1091342	15.12	ppbv	98
63) n-Propylbenzene	21.458	91	3175277	15.10	ppbv	100
64) Isopropylbenzene	20.690	105	2609318	14.76	ppbv	100
65) 1,1,2,2-Tetrachloroeth...	20.864	83	1248217	14.69	ppbv	98
66) p-Bromofluorobenzene	21.098	95	767689	10.88	ppbv	93
67) 4-Ethyltoluene	21.677	105	2562670	15.28	ppbv	96
68) 1,3,5-Trimethylbenzene	21.767	105	2169599	14.98	ppbv	92
69) tert-Butylbenzene	22.526	119	2434518	14.96	ppbv #	62
70) 1,2,4-Trimethylbenzene	22.603	105	2237032	15.28	ppbv #	89
71) sec-Butylbenzene	22.995	105	3287178	15.15	ppbv #	100
72) p-Isopropyltoluene	23.262	119	2791695	15.58	ppbv #	99
73) 1,3-Dichlorobenzene	23.433	146	1370952	17.29	ppbv	99
74) 1,4-Dichlorobenzene	23.622	146	1369068	18.13	ppbv	99
75) Benzyl chloride	23.770	126	377260	18.90	ppbv #	1
76) n-Butylbenzene	24.060	91	2601581	16.89	ppbv #	89
77) 1,2-Dichlorobenzene	24.320	146	1362598	16.99	ppbv	99
78) 1,2,4-Trichlorbenzene	27.059	180	753246	19.08	ppbv	95
79) Hexachlorobutadiene	27.336	225	1376465	16.71	ppbv	98
80) Naphthalene	27.455	128	2083651	18.31	ppbv	99

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

Data Path : C:\MassHunter\GCMS\1\data\2025\12-DEC\120525\
Data File : TV034045.D
Acq On : 05 Dec 2025 10:30 pm
Operator : YR
Sample : SEQ-CAL8
Misc : QBTO3091525A
ALS Vial : 12 Sample Multiplier: 1
InstName : TO15_AIR3

Quant Time: Dec 08 17:02:19 2025
Quant Method : C:\MassHunter\GCMS\1\methods\AIR-3-DEC052025.M
Quant Title : TO15 VOC Analysis
QLast Update : Mon Dec 08 14:43:00 2025
Response via : Initial Calibration



Data Path : C:\MassHunter\GCMS\1\data\2025\12-DEC\120525\
Data File : TV034046.D
Acq On : 05 Dec 2025 11:16 pm
Operator : YR
Sample : SEQ-CAL9
Misc : QBTO3091525A
ALS Vial : 12 Sample Multiplier: 1
InstName : TO15_AIR3

Quant Time: Dec 08 17:02:23 2025
Quant Method : C:\MassHunter\GCMS\1\methods\AIR-3-DEC052025.M
Quant Title : TO15 VOC Analysis
QLast Update : Mon Dec 08 14:43:00 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Methane, bromochloro-	12.086	49	640043	10.00	ppbv		-0.02
39) 1,4-Difluorobenzene	13.665	114	1074646	10.00	ppbv		-0.02
55) d5-Chlorobenzene	18.931	117	954845	10.00	ppbv		#-0.03
Target Compounds							Qvalue
2) Propylene	5.019	42	516413	19.71	ppbv		98
3) Dichlorodifluoromethane	5.090	85	1780313	21.64	ppbv	#	98
4) 1,2-Dichlorotetrafluor...	5.356	85	1549625	21.50	ppbv		97
5) Chloromethane	5.581	50	799557	19.98	ppbv		100
6) Vinyl Chloride	5.852	62	705200	21.11	ppbv		96
7) 1,3-Butadiene	5.935	54	689241	20.36	ppbv		96
8) Bromomethane	6.726	94	542572	21.07	ppbv		99
9) Chloroethane	6.900	64	372656	20.68	ppbv		92
10) ethanol	7.025	45	348844	15.79	ppbv		88
11) Vinyl Bromide	7.353	106	525189	21.01	ppbv		100
12) Trichlorofluoromethane	7.478	101	1742796	20.88	ppbv		99
13) Isopropanol	7.967	45	1771234	20.03	ppbv		100
14) Acrolein	8.077	56	375980	19.95	ppbv	#	100
15) Acetone	8.183	43	1301002	18.62	ppbv		97
16) Freon-113	8.347	101	1165722	20.90	ppbv		96
17) 1,1-Dichloroethylene	8.575	61	1252648	20.30	ppbv		86
18) 3-Chloropropene	9.167	41	1165720	20.04	ppbv		90
19) Methylene Chloride	9.318	49	1084244	19.74	ppbv	#	74
20) Acrylonitrile	9.401	53	752708	18.98	ppbv	#	100
21) Carbon disulfide	9.449	76	1674581	20.68	ppbv	#	86
22) Methyl-tert-Butyl Ethe...	9.720	73	1835793	20.55	ppbv	#	83
23) trans-1,2-Dichloroethy...	9.922	61	1154419	20.62	ppbv		87
24) Hexane	10.215	57	1346655	20.33	ppbv		98
25) Vinyl Acetate	10.533	43	1970337	20.56	ppbv	#	99
26) 1,1-Dichloroethane	10.584	63	1315576	20.20	ppbv	#	97
27) 2-Butanone	11.192	43	1878102	19.44	ppbv	#	86
28) Ethyl Acetate	11.498	43	2226634	20.05	ppbv	#	94
29) cis-1,2-Dichloroethylene	11.584	61	1102546	19.76	ppbv		84
30) Chloroform	11.861	83	1402056	20.57	ppbv	#	95
31) Tetrahydrofuran	12.182	42	1101399	19.50	ppbv	#	84
32) 1,1,1-Trichlorethane	12.600	97	1566742	20.54	ppbv		95
33) Cyclohexane	12.771	56	1448926	20.17	ppbv		81
34) 2,2,4-Trimethylpentane	12.916	57	4184933	19.90	ppbv		98
35) Carbon Tetrachloride	13.063	117	1624586	21.01	ppbv		100
36) 1,2-Dichloroethane	13.134	62	1121384	20.16	ppbv	#	98
37) Benzene	13.266	78	1776174	20.04	ppbv	#	100
38) n-Heptane	13.282	43	1717522	19.41	ppbv	#	99
40) Trichloroethylene	14.301	95	877832	19.75	ppbv		97
41) 1,2-Dichloropropane	14.530	63	831395	19.49	ppbv	#	95
42) Methyl Methacrylate	14.543	69	703013	19.72	ppbv	#	78
43) 1,4-Dioxane	14.848	88	413857	19.54	ppbv	#	100
44) Bromodichloromethane	14.890	83	1523778	19.84	ppbv	#	95
45) Methyl Isobutyl Ketone	15.430	43	2268629	18.99	ppbv		99
46) cis-1,3-Dichloropropene	15.784	75	1140961	20.30	ppbv	#	94
47) Toluene	16.440	91	2342930	19.79	ppbv		99
48) trans-1,3-Dichloropropene	16.597	75	1093207	20.49	ppbv	#	94
49) 1,1,2-Trichlorethane	16.893	97	765187	19.93	ppbv		89
50) 2-Hexanone	16.899	43	2065410	20.44	ppbv		100
51) 1,3-Dichloropropane	17.317	76	1178244	20.24	ppbv	#	100
52) Tetrachloroethylene	17.632	166	1189900	20.23	ppbv		97

Data Path : C:\MassHunter\GCMS\1\data\2025\12-DEC\120525\
Data File : TV034046.D
Acq On : 05 Dec 2025 11:16 pm
Operator : YR
Sample : SEQ-CAL9
Misc : QBTO3091525A
ALS Vial : 12 Sample Multiplier: 1
InstName : TO15_AIR3

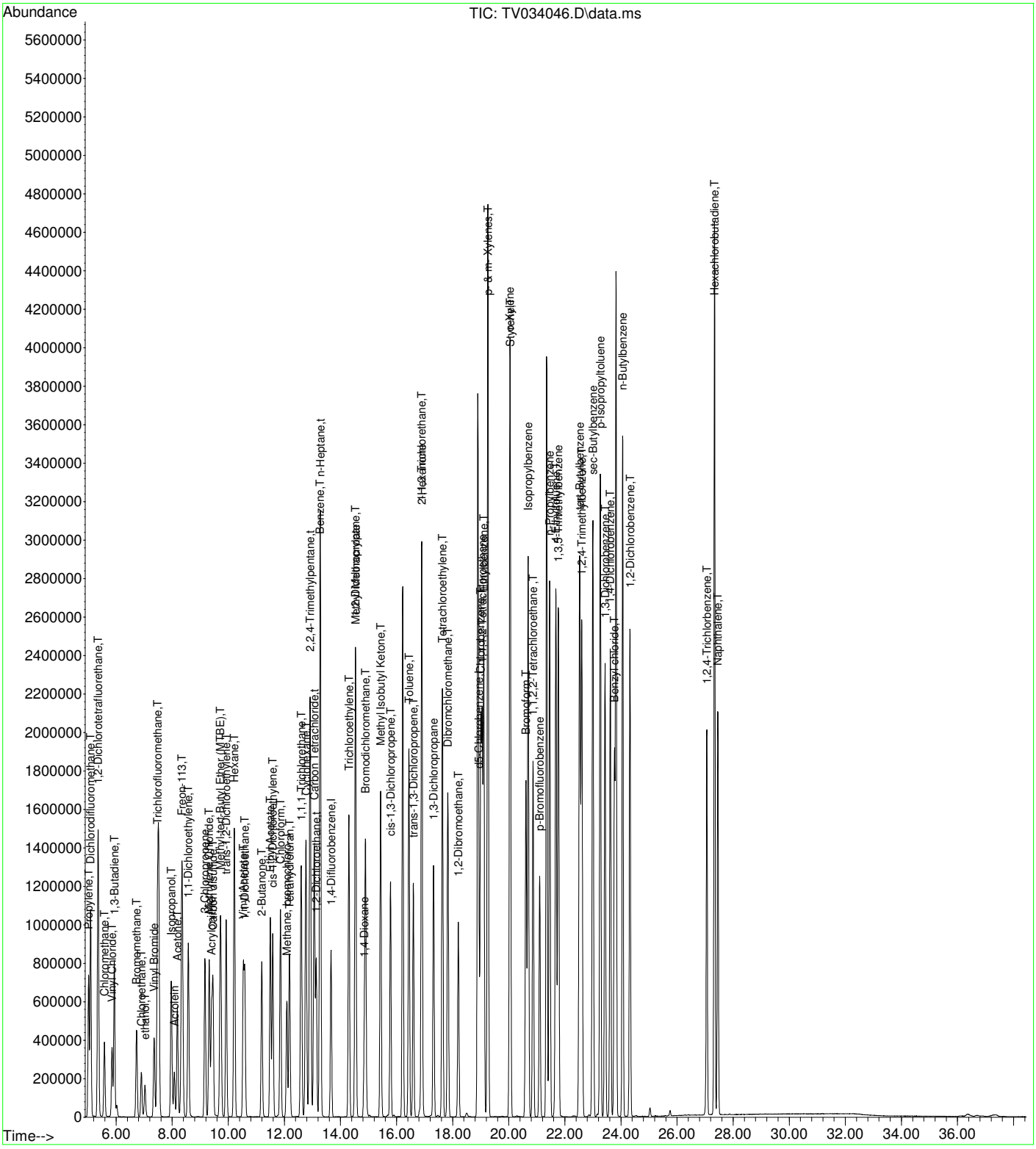
Quant Time: Dec 08 17:02:23 2025
Quant Method : C:\MassHunter\GCMS\1\methods\AIR-3-DEC052025.M
Quant Title : TO15 VOC Analysis
QLast Update : Mon Dec 08 14:43:00 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
53) Dibromchloromethane	17.825	129	1561735	20.44	ppbv		99
54) 1,2-Dibromoethane	18.202	107	1220051	20.93	ppbv		99
56) Chlorobenzene	18.999	112	1793108	19.99	ppbv	#	100
57) 1,1,1,2-Tetrachloroethane	19.050	131	1063596	19.70	ppbv		99
58) Ethylbenzene	19.108	91	3134134	19.86	ppbv		97
59) p- & m- Xylenes	19.253	91	4886826	39.78	ppbv		98
60) o-Xylene	20.037	91	2540846	19.96	ppbv		99
61) Styrene	20.054	104	1838998	20.82	ppbv	#	74
62) Bromoform	20.613	173	1500305	20.90	ppbv		98
63) n-Propylbenzene	21.459	91	4272432	20.43	ppbv		100
64) Isopropylbenzene	20.690	105	3524315	20.05	ppbv		100
65) 1,1,2,2-Tetrachloroeth...	20.864	83	1699803	20.12	ppbv		98
66) p-Bromofluorobenzene	21.102	95	780364	11.13	ppbv		93
67) 4-Ethyltoluene	21.680	105	3455839	20.72	ppbv		96
68) 1,3,5-Trimethylbenzene	21.767	105	2911384	20.21	ppbv		92
69) tert-Butylbenzene	22.529	119	3295828	20.37	ppbv	#	62
70) 1,2,4-Trimethylbenzene	22.600	105	3023766	20.77	ppbv	#	89
71) sec-Butylbenzene	22.999	105	4400454	20.39	ppbv	#	100
72) p-Isopropyltoluene	23.262	119	3743708	21.02	ppbv	#	99
73) 1,3-Dichlorobenzene	23.433	146	1863372	23.63	ppbv		99
74) 1,4-Dichlorobenzene	23.619	146	1861767	24.80	ppbv		99
75) Benzyl chloride	23.770	126	519516	26.17	ppbv	#	1
76) n-Butylbenzene	24.060	91	3502628	22.87	ppbv	#	89
77) 1,2-Dichlorobenzene	24.323	146	1839393	23.06	ppbv		99
78) 1,2,4-Trichlorbenzene	27.060	180	1047178	26.68	ppbv		96
79) Hexachlorobutadiene	27.333	225	1596901	19.49	ppbv		97
80) Naphthalene	27.452	128	2744849	24.26	ppbv		99

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

Data Path : C:\MassHunter\GCMS\1\data\2025\12-DEC\120525\
Data File : TV034046.D
Acq On : 05 Dec 2025 11:16 pm
Operator : YR
Sample : SEQ-CAL9
Misc : QBTO3091525A
ALS Vial : 12 Sample Multiplier: 1
InstName : TO15_AIR3

Quant Time: Dec 08 17:02:23 2025
Quant Method : C:\MassHunter\GCMS\1\methods\AIR-3-DEC052025.M
Quant Title : TO15 VOC Analysis
QLast Update : Mon Dec 08 14:43:00 2025
Response via : Initial Calibration



Data Path : C:\MassHunter\GCMS\1\data\2025\12-DEC\120525\
Data File : TV034047.D
Acq On : 06 Dec 2025 12:02 am
Operator : YR
Sample : SEQ-CALA
Misc : QBTO3091525A
ALS Vial : 12 Sample Multiplier: 1
InstName : TO15_AIR3

Quant Time: Dec 08 17:02:27 2025
Quant Method : C:\MassHunter\GCMS\1\methods\AIR-3-DEC052025.M
Quant Title : TO15 VOC Analysis
QLast Update : Mon Dec 08 14:43:00 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Methane, bromochloro-	12.086	49	629985	10.00	ppbv		-0.02
39) 1,4-Difluorobenzene	13.665	114	1092924	10.00	ppbv		-0.02
55) d5-Chlorobenzene	18.931	117	963817	10.00	ppbv		#-0.03
Target Compounds							Qvalue
2) Propylene	5.019	42	794112	30.79	ppbv		98
3) Dichlorodifluoromethane	5.090	85	2591882	32.00	ppbv		98
4) 1,2-Dichlorotetrafluor...	5.356	85	2453153	34.59	ppbv		97
5) Chloromethane	5.581	50	1223586	31.07	ppbv		100
6) Vinyl Chloride	5.855	62	1095902	33.32	ppbv		96
7) 1,3-Butadiene	5.935	54	1054731	31.66	ppbv		96
8) Bromomethane	6.726	94	853583	33.67	ppbv		99
9) Chloroethane	6.903	64	579934	32.70	ppbv		93
10) ethanol	7.032	45	530013	24.38	ppbv		89
11) Vinyl Bromide	7.353	106	818116	33.26	ppbv		100
12) Trichlorofluoromethane	7.478	101	2667657	32.47	ppbv		99
13) Isopropanol	7.970	45	2662355	30.59	ppbv		100
14) Acrolein	8.077	56	576836	31.10	ppbv	#	100
15) Acetone	8.183	43	1934425	28.12	ppbv		99
16) Freon-113	8.347	101	1784278	32.50	ppbv		95
17) 1,1-Dichloroethylene	8.575	61	1899673	31.27	ppbv		87
18) 3-Chloropropene	9.167	41	1734568	30.30	ppbv		90
19) Methylene Chloride	9.321	49	1606738	29.72	ppbv	#	76
20) Acrylonitrile	9.401	53	1133661	29.04	ppbv	#	100
21) Carbon disulfide	9.449	76	2566536	32.20	ppbv	#	88
22) Methyl-tert-Butyl Ethe...	9.723	73	2828519	32.17	ppbv	#	84
23) trans-1,2-Dichloroethy...	9.925	61	1767664	32.08	ppbv		88
24) Hexane	10.215	57	2039501	31.29	ppbv		99
25) Vinyl Acetate	10.536	43	3134164	33.23	ppbv	#	99
26) 1,1-Dichloroethane	10.588	63	2009176	31.35	ppbv	#	97
27) 2-Butanone	11.195	43	2809735	29.54	ppbv		87
28) Ethyl Acetate	11.501	43	3294096	30.13	ppbv		94
29) cis-1,2-Dichloroethylene	11.584	61	1681723	30.62	ppbv		85
30) Chloroform	11.861	83	2155291	32.13	ppbv		96
31) Tetrahydrofuran	12.179	42	1631762	29.35	ppbv		85
32) 1,1,1-Trichlorethane	12.597	97	2416039	32.18	ppbv		96
33) Cyclohexane	12.768	56	2194026	31.04	ppbv		81
34) 2,2,4-Trimethylpentane	12.919	57	6292554	30.41	ppbv		98
35) Carbon Tetrachloride	13.063	117	2487685	32.69	ppbv		100
36) 1,2-Dichloroethane	13.137	62	1704970	31.14	ppbv	#	98
37) Benzene	13.269	78	2724110	31.23	ppbv	#	100
38) n-Heptane	13.285	43	2506446	28.78	ppbv		98
40) Trichloroethylene	14.301	95	1370666	30.33	ppbv		98
41) 1,2-Dichloropropane	14.530	63	1269831	29.28	ppbv	#	96
42) Methyl Methacrylate	14.543	69	1094746	30.20	ppbv	#	78
43) 1,4-Dioxane	14.851	88	655356	30.43	ppbv	#	100
44) Bromodichloromethane	14.893	83	2351630	30.10	ppbv		96
45) Methyl Isobutyl Ketone	15.433	43	3358991	27.65	ppbv		100
46) cis-1,3-Dichloropropene	15.784	75	1778823	31.12	ppbv	#	94
47) Toluene	16.440	91	3589961	29.81	ppbv		99
48) trans-1,3-Dichloropropene	16.597	75	1707952	31.48	ppbv	#	95
49) 1,1,2-Trichlorethane	16.893	97	1172148	30.01	ppbv		90
50) 2-Hexanone	16.899	43	3006545	29.25	ppbv		99
51) 1,3-Dichloropropane	17.321	76	1820958	30.75	ppbv	#	86
52) Tetrachloroethylene	17.632	166	1856762	31.04	ppbv		97

Data Path : C:\MassHunter\GCMS\1\data\2025\12-DEC\120525\
Data File : TV034047.D
Acq On : 06 Dec 2025 12:02 am
Operator : YR
Sample : SEQ-CALA
Misc : QBTO3091525A
ALS Vial : 12 Sample Multiplier: 1
InstName : TO15_AIR3

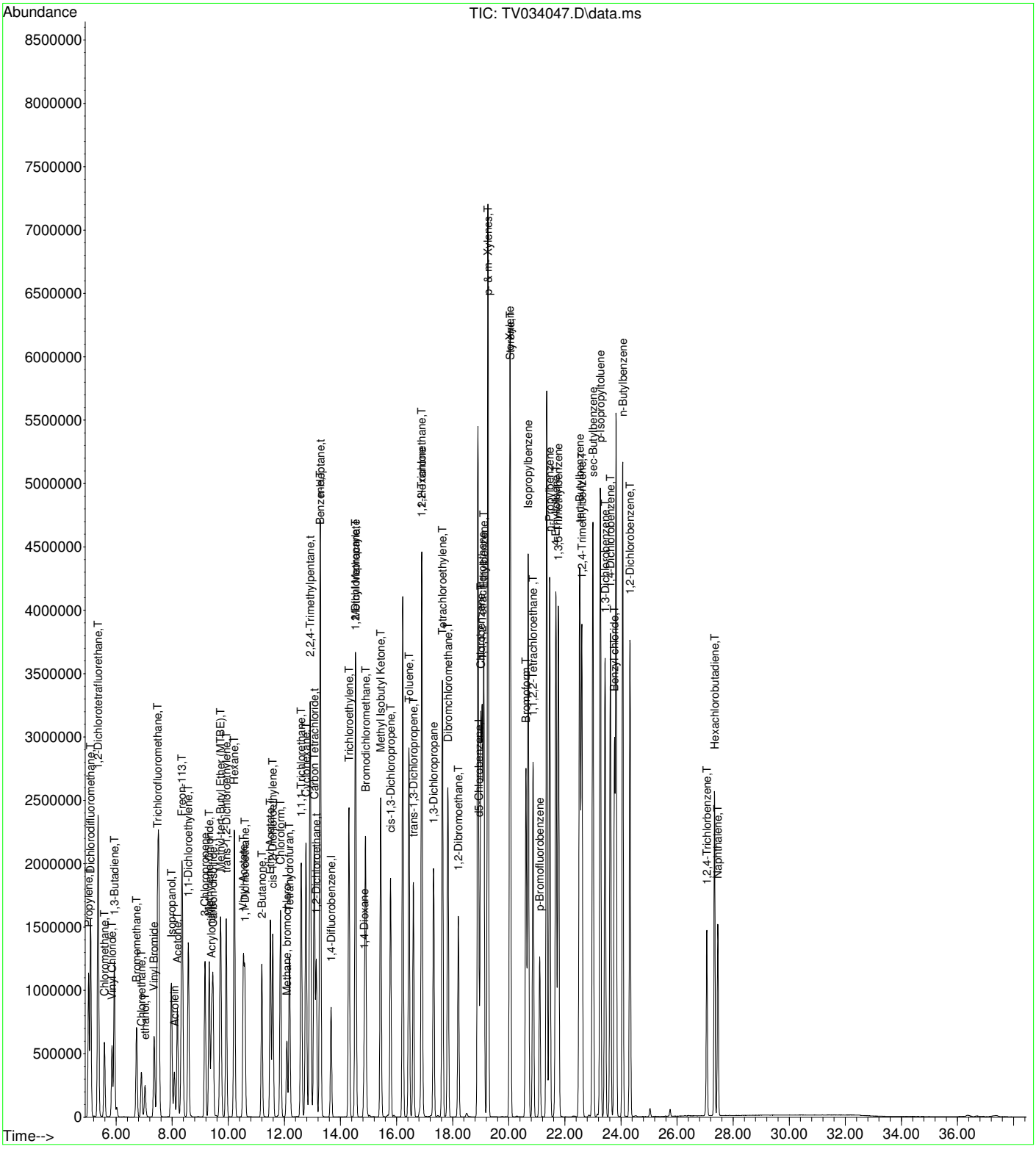
Quant Time: Dec 08 17:02:27 2025
Quant Method : C:\MassHunter\GCMS\1\methods\AIR-3-DEC052025.M
Quant Title : TO15 VOC Analysis
QLast Update : Mon Dec 08 14:43:00 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
53) Dibromchloromethane	17.829	129	2434899	31.34	ppbv		99
54) 1,2-Dibromoethane	18.202	107	1900548	32.05	ppbv		99
56) Chlorobenzene	19.002	112	2759127	30.47	ppbv	#	86
57) 1,1,1,2-Tetrachloroethane	19.050	131	1627815	29.88	ppbv		99
58) Ethylbenzene	19.108	91	4806576	30.18	ppbv		97
59) p- & m- Xylenes	19.256	91	7497450	60.47	ppbv		98
60) o-Xylene	20.037	91	3915625	30.47	ppbv		99
61) Styrene	20.057	104	2860489	32.08	ppbv	#	74
62) Bromoform	20.613	173	2334309	32.21	ppbv		98
63) n-Propylbenzene	21.459	91	6517625	30.87	ppbv		100
64) Isopropylbenzene	20.690	105	5383356	30.34	ppbv		100
65) 1,1,2,2-Tetrachloroeth...	20.867	83	2586279	30.33	ppbv		98
66) p-Bromofluorobenzene	21.102	95	792896	11.20	ppbv		93
67) 4-Ethyltoluene	21.680	105	5262779	31.26	ppbv		96
68) 1,3,5-Trimethylbenzene	21.767	105	4467887	30.73	ppbv		92
69) tert-Butylbenzene	22.529	119	4969149	30.43	ppbv	#	62
70) 1,2,4-Trimethylbenzene	22.603	105	4547854	30.95	ppbv	#	88
71) sec-Butylbenzene	22.999	105	6568901	30.16	ppbv	#	100
72) p-Isopropyltoluene	23.266	119	5569208	30.98	ppbv	#	99
73) 1,3-Dichlorobenzene	23.433	146	2888456	36.29	ppbv		99
74) 1,4-Dichlorobenzene	23.623	146	2911636	38.42	ppbv		99
75) Benzyl chloride	23.770	126	803426	40.09	ppbv	#	1
76) n-Butylbenzene	24.063	91	5172515	33.46	ppbv	#	89
77) 1,2-Dichlorobenzene	24.320	146	2777854	34.50	ppbv		99
78) 1,2,4-Trichlorbenzene	27.060	180	781651	19.73	ppbv		95
79) Hexachlorobutadiene	27.336	225	897324	10.85	ppbv		97
80) Naphthalene	27.452	128	1990602	17.43	ppbv		99

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

Data Path : C:\MassHunter\GCMS\1\data\2025\12-DEC\120525\
Data File : TV034047.D
Acq On : 06 Dec 2025 12:02 am
Operator : YR
Sample : SEQ-CALA
Misc : QBTO3091525A
ALS Vial : 12 Sample Multiplier: 1
InstName : TO15_AIR3

Quant Time: Dec 08 17:02:27 2025
Quant Method : C:\MassHunter\GCMS\1\methods\AIR-3-DEC052025.M
Quant Title : TO15 VOC Analysis
QLast Update : Mon Dec 08 14:43:00 2025
Response via : Initial Calibration



SECOND-SOURCE CALIBRATION VERIFICATION

EPA TO-15

Laboratory: ALS Environmental - Stratford
SDG: 25L1231
Client: Langan Engineering & Environmental Services (NYC)
Project: 170390601
Calibration: SL50019
Laboratory ID: S5L0903-SCV1
Sequence: S5L0903
Standard ID: S25L225

ANALYTE	EXPECTED (ppbv)	FOUND (ppbv)	% DIFF	QC LIMIT
1,1,1,2-Tetrachloroethane	10.0	10.4	4.2	30.00
1,1,1-Trichloroethane	10.0	10.9	8.7	30.00
1,1,2,2-Tetrachloroethane	10.0	10.5	5.0	30.00
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.0	10.9	9.1	30.00
1,1,2-Trichloroethane	10.0	10.8	8.5	30.00
1,1-Dichloroethane	10.0	10.3	2.7	30.00
1,1-Dichloroethylene	10.0	10.5	4.9	30.00
1,2,4-Trichlorobenzene	10.0	11.3	13.0	30.00
1,2,4-Trimethylbenzene	10.0	10.8	8.2	30.00
1,2-Dibromoethane	10.0	10.8	8.4	30.00
1,2-Dichlorobenzene	10.0	11.6	16.2	30.00
1,2-Dichloroethane	10.0	10.5	4.6	30.00
1,2-Dichloropropane	10.0	10.5	5.4	30.00
1,2-Dichlorotetrafluoroethane	10.0	10.8	8.4	30.00
1,3,5-Trimethylbenzene	10.0	10.6	5.7	30.00
1,3-Butadiene	10.0	10.7	6.7	30.00
1,3-Dichlorobenzene	10.0	11.8	18.5	30.00
1,3-Dichloropropane	10.0	10.6	6.1	30.00
1,4-Dichlorobenzene	10.0	12.1	21.0	30.00
1,4-Dioxane	10.0	10.7	6.7	30.00
2,2,4-Trimethylpentane	10.0	11.1	11.0	30.00
2-Butanone	10.0	10.1	0.8	30.00
2-Hexanone	10.0	11.0	9.8	30.00
3-Chloropropene	10.0	10.8	8.5	30.00
4-Methyl-2-pentanone	10.0	10.3	2.9	30.00

SECOND-SOURCE CALIBRATION VERIFICATION

EPA TO-15

Laboratory: ALS Environmental - Stratford
SDG: 25L1231
Client: Langan Engineering & Environmental Services (NYC)
Project: 170390601
Calibration: SL50019
Laboratory ID: S5L0903-SCV1
Sequence: S5L0903
Standard ID: S25L225

ANALYTE	EXPECTED (ppbv)	FOUND (ppbv)	% DIFF	QC LIMIT
Acetone	10.0	9.75	-2.5	30.00
Acrolein	10.0	10.2	2.1	30.00
Acrylonitrile	10.0	10.0	0.3	30.00
Benzene	10.0	10.5	4.7	30.00
Benzyl chloride	10.0	12.7	27.2	30.00
Bromodichloromethane	10.0	10.8	8.0	30.00
Bromoform	10.0	11.2	12.5	30.00
Bromomethane	10.0	10.8	7.7	30.00
Carbon disulfide	10.0	10.3	3.3	30.00
Carbon tetrachloride	10.0	11.1	11.4	30.00
Chlorobenzene	10.0	10.5	4.6	30.00
Chloroethane	10.0	10.7	6.9	30.00
Chloroform	10.0	10.7	7.3	30.00
Chloromethane	10.0	10.3	3.3	30.00
cis-1,2-Dichloroethylene	10.0	10.4	3.8	30.00
cis-1,3-Dichloropropylene	10.0	10.8	8.4	30.00
Cyclohexane	10.0	10.5	5.2	30.00
Dibromochloromethane	10.0	11.0	9.6	30.00
Dichlorodifluoromethane	10.0	11.2	12.0	30.00
Ethyl acetate	10.0	10.0	0.3	30.00
Ethyl Benzene	10.0	10.5	4.7	30.00
Hexachlorobutadiene	10.0	12.2	21.7	30.00
Isopropanol	10.0	10.5	5.3	30.00
Isopropylbenzene	10.0	10.5	5.0	30.00
Methyl Methacrylate	10.0	10.2	1.6	30.00

SECOND-SOURCE CALIBRATION VERIFICATION

EPA TO-15

Laboratory: ALS Environmental - Stratford
SDG: 25L1231
Client: Langan Engineering & Environmental Services (NYC)
Project: 170390601
Calibration: SL50019
Laboratory ID: S5L0903-SCV1
Sequence: S5L0903
Standard ID: S25L225

ANALYTE	EXPECTED (ppbv)	FOUND (ppbv)	% DIFF	QC LIMIT
Methyl tert-butyl ether (MTBE)	10.0	10.8	7.7	30.00
Methylene chloride	10.0	10.4	3.8	30.00
Naphthalene	10.0	11.7	16.7	30.00
n-Butylbenzene	10.0	11.8	17.8	30.00
n-Heptane	10.0	10.5	4.7	30.00
n-Hexane	10.0	10.6	6.0	30.00
n-Propylbenzene	10.0	10.6	6.5	30.00
o-Xylene	10.0	10.4	4.1	30.00
p- & m- Xylenes	20.0	20.9	4.4	30.00
p-Ethyltoluene	10.0	10.9	9.3	30.00
p-Isopropyltoluene	10.0	11.1	10.8	30.00
Propylene	10.0	10.3	3.3	30.00
sec-Butylbenzene	10.0	10.6	6.4	30.00
Styrene	10.0	10.8	7.5	30.00
tert-Butylbenzene	10.0	10.7	6.8	30.00
Tetrachloroethylene	10.0	10.8	7.5	30.00
Tetrahydrofuran	10.0	10.2	2.3	30.00
Toluene	10.0	10.3	3.3	30.00
trans-1,2-Dichloroethylene	10.0	10.7	6.6	30.00
trans-1,3-Dichloropropylene	10.0	11.1	10.8	30.00
Trichloroethylene	10.0	10.6	5.8	30.00
Trichlorofluoromethane (Freon 11)	10.0	10.9	8.6	30.00
Vinyl acetate	10.0	10.6	6.0	30.00
Vinyl bromide	10.0	11.1	10.9	30.00
Vinyl Chloride	10.0	10.8	7.8	30.00

SECOND-SOURCE CALIBRATION VERIFICATION

EPA TO-15

Laboratory: ALS Environmental - Stratford

SDG: 25L1231

Client: Langan Engineering & Environmental Services (NYC)

Project: 170390601

Calibration: SL50019

Laboratory ID: S5L0903-SCV1

Sequence: S5L0903

Standard ID: S25L225

* Values outside of QC limits

Quantitation Report (QT Reviewed)

Data Path : C:\MassHunter\GCMS\1\data\2025\12-DEC\120525\
Data File : TV034051.D
Acq On : 06 Dec 2025 03:07 am
Operator : YR
Sample : SEQ-SCV1
Misc : QBTO3091525A
ALS Vial : 12 Sample Multiplier: 1
InstName : TO15_AIR3

Quant Time: Dec 08 14:43:30 2025
Quant Method : C:\MassHunter\GCMS\1\methods\AIR-3-DEC052025.M
Quant Title : TO15 VOC Analysis
QLast Update : Mon Dec 08 14:43:00 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Methane, bromochloro-	12.083	49	622082	10.00	ppbv		-0.03
39) 1,4-Difluorobenzene	13.658	114	1022754	10.00	ppbv		-0.03
55) d5-Chlorobenzene	18.928	117	915755	10.00	ppbv		#-0.03
Target Compounds							Qvalue
2) Propylene	5.019	42	263166	10.33	ppbv		98
3) Dichlorodifluoromethane	5.089	85	895405	11.20	ppbv	#	97
4) 1,2-Dichlorotetrafluor...	5.356	85	758886	10.84	ppbv		97
5) Chloromethane	5.581	50	401715	10.33	ppbv		100
6) Vinyl Chloride	5.852	62	350191	10.78	ppbv		95
7) 1,3-Butadiene	5.935	54	350919	10.67	ppbv		97
8) Bromomethane	6.729	94	269698	10.77	ppbv		99
9) Chloroethane	6.900	64	187289	10.69	ppbv		92
10) ethanol	7.019	45	201158	9.37	ppbv		87
11) Vinyl Bromide	7.353	106	269305	11.09	ppbv		100
12) Trichlorofluoromethane	7.475	101	880782	10.86	ppbv		99
13) Isopropanol	7.958	45	904916	10.53	ppbv		100
14) Acrolein	8.070	56	187024	10.21	ppbv	#	100
15) Acetone	8.179	43	662508	9.75	ppbv		97
16) Freon-113	8.343	101	591514	10.91	ppbv		96
17) 1,1-Dichloroethylene	8.572	61	629168	10.49	ppbv		86
18) 3-Chloropropene	9.163	41	613343	10.85	ppbv		90
19) Methylene Chloride	9.314	49	554282	10.38	ppbv	#	74
20) Acrylonitrile	9.392	53	386780	10.03	ppbv	#	100
21) Carbon disulfide	9.449	76	812923	10.33	ppbv	#	85
22) Methyl-tert-Butyl Ethe...	9.720	73	934872	10.77	ppbv	#	82
23) trans-1,2-Dichloroethy...	9.919	61	579984	10.66	ppbv		87
24) Hexane	10.211	57	682476	10.60	ppbv		98
25) Vinyl Acetate	10.530	43	987271	10.60	ppbv	#	99
26) 1,1-Dichloroethane	10.581	63	649896	10.27	ppbv	#	97
27) 2-Butanone	11.186	43	947087	10.08	ppbv	#	85
28) Ethyl Acetate	11.494	43	1082297	10.03	ppbv	#	94
29) cis-1,2-Dichloroethylene	11.581	61	563101	10.38	ppbv		84
30) Chloroform	11.854	83	710998	10.73	ppbv	#	95
31) Tetrahydrofuran	12.179	42	561925	10.23	ppbv	#	83
32) 1,1,1-Trichlorethane	12.594	97	805583	10.87	ppbv		95
33) Cyclohexane	12.764	56	734593	10.52	ppbv		80
34) 2,2,4-Trimethylpentane	12.912	57	2268954	11.10	ppbv		98
35) Carbon Tetrachloride	13.060	117	837375	11.14	ppbv	#	92
36) 1,2-Dichloroethane	13.131	62	565308	10.46	ppbv	#	98
37) Benzene	13.263	78	902254	10.47	ppbv	#	100
38) n-Heptane	13.279	43	900714	10.47	ppbv	#	99
40) Trichloroethylene	14.298	95	447430	10.58	ppbv		98
41) 1,2-Dichloropropane	14.523	63	427819	10.54	ppbv	#	96
42) Methyl Methacrylate	14.539	69	344736	10.16	ppbv	#	78
43) 1,4-Dioxane	14.845	88	215021	10.67	ppbv	#	100
44) Bromodichloromethane	14.890	83	789509	10.80	ppbv	#	95
45) Methyl Isobutyl Ketone	15.427	43	1169673	10.29	ppbv		98
46) cis-1,3-Dichloropropene	15.780	75	579879	10.84	ppbv	#	93
47) Toluene	16.436	91	1163755	10.33	ppbv		99
48) trans-1,3-Dichloropropene	16.594	75	562313	11.08	ppbv	#	94
49) 1,1,2-Trichlorethane	16.890	97	396366	10.85	ppbv		90
50) 2-Hexanone	16.896	43	1056446	10.98	ppbv	#	97
51) 1,3-Dichloropropane	17.317	76	587919	10.61	ppbv	#	100
52) Tetrachloroethylene	17.632	166	601760	10.75	ppbv		97

Data Path : C:\MassHunter\GCMS\1\data\2025\12-DEC\120525\
Data File : TV034051.D
Acq On : 06 Dec 2025 03:07 am
Operator : YR
Sample : SEQ-SCV1
Misc : QBTO3091525A
ALS Vial : 12 Sample Multiplier: 1
InstName : TO15_AIR3

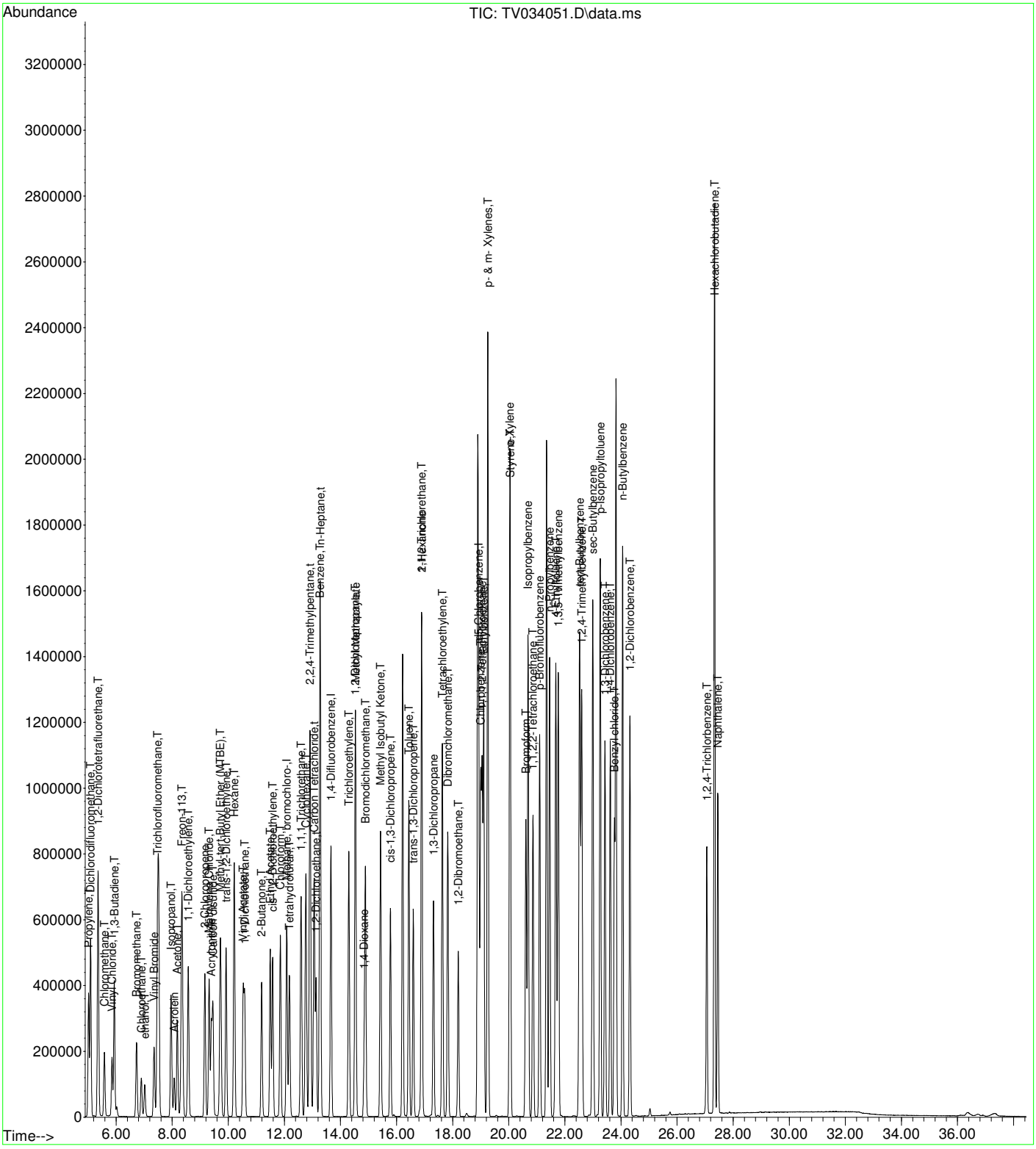
Quant Time: Dec 08 14:43:30 2025
Quant Method : C:\MassHunter\GCMS\1\methods\AIR-3-DEC052025.M
Quant Title : TO15 VOC Analysis
QLast Update : Mon Dec 08 14:43:00 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
53) Dibromchloromethane	17.825	129	797101	10.96	ppbv		99
54) 1,2-Dibromoethane	18.198	107	601515	10.84	ppbv		99
56) Chlorobenzene	18.999	112	899666	10.46	ppbv	#	100
57) 1,1,1,2-Tetrachloroethane	19.047	131	539472	10.42	ppbv		99
58) Ethylbenzene	19.105	91	1584049	10.47	ppbv		97
59) p- & m- Xylenes	19.253	91	2458901	20.87	ppbv		99
60) o-Xylene	20.034	91	1270687	10.41	ppbv		99
61) Styrene	20.054	104	910724	10.75	ppbv	#	74
62) Bromoform	20.610	173	774888	11.25	ppbv		98
63) n-Propylbenzene	21.455	91	2135721	10.65	ppbv		100
64) Isopropylbenzene	20.687	105	1771105	10.50	ppbv		100
65) 1,1,2,2-Tetrachloroeth...	20.861	83	850734	10.50	ppbv		98
66) p-Bromofluorobenzene	21.098	95	718306	10.68	ppbv		92
67) 4-Ethyltoluene	21.677	105	1748192	10.93	ppbv		96
68) 1,3,5-Trimethylbenzene	21.764	105	1460652	10.57	ppbv		92
69) tert-Butylbenzene	22.526	119	1657263	10.68	ppbv	#	62
70) 1,2,4-Trimethylbenzene	22.597	105	1510399	10.82	ppbv	#	89
71) sec-Butylbenzene	22.996	105	2201330	10.64	ppbv	#	100
72) p-Isopropyltoluene	23.262	119	1892203	11.08	ppbv	#	99
73) 1,3-Dichlorobenzene	23.430	146	896260	11.85	ppbv		99
74) 1,4-Dichlorobenzene	23.619	146	870992	12.10	ppbv		99
75) Benzyl chloride	23.767	126	242093	12.72	ppbv	#	1
76) n-Butylbenzene	24.060	91	1730372	11.78	ppbv	#	90
77) 1,2-Dichlorobenzene	24.320	146	888893	11.62	ppbv		99
78) 1,2,4-Trichlorbenzene	27.060	180	425370	11.30	ppbv		96
79) Hexachlorobutadiene	27.336	225	955975	12.17	ppbv		98
80) Naphthalene	27.452	128	1266373	11.67	ppbv		99

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

Data Path : C:\MassHunter\GCMS\1\data\2025\12-DEC\120525\
Data File : TV034051.D
Acq On : 06 Dec 2025 03:07 am
Operator : YR
Sample : SEQ-SCV1
Misc : QBTO3091525A
ALS Vial : 12 Sample Multiplier: 1
InstName : TO15_AIR3

Quant Time: Dec 08 14:43:30 2025
Quant Method : C:\MassHunter\GCMS\1\methods\AIR-3-DEC052025.M
Quant Title : TO15 VOC Analysis
QLast Update : Mon Dec 08 14:43:00 2025
Response via : Initial Calibration



FORM VII

CONTINUING CALIBRATION CHECK

EPA TO-15

Laboratory:	ALS Environmental - Stratford	SDG:	25L1231
Client:	Langan Engineering & Environmental Services (NYC	Project:	170390601
Instrument ID:	TO15_AIR3	Calibration:	SL50019
Lab File ID:	TV034380.D	Calibration Date:	12/05/25 16:22
Sequence:	S5L2929	Injection Date:	12/29/25
Lab Sample ID:	S5L2929-CCV1	Injection Time:	10:14

		CONC. (ppbv)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	Q
1,1,1,2-Tetrachloroethane	A	10.0	9.05	0.5653081	0.5113871		-9.5	30	
1,1,1-Trichloroethane	A	10.0	8.50	1.19175	1.012986		-15.0	30	
1,1,2,2-Tetrachloroethane	A	10.0	9.72	0.8845984	0.8594161		-2.8	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	A	10.0	9.09	0.8714519	0.7917211		-9.1	30	
1,1,2-Trichloroethane	A	10.0	9.76	0.357346	0.3487841		-2.4	30	
1,1-Dichloroethane	A	10.0	9.15	1.017448	0.9313154		-8.5	30	
1,1-Dichloroethylene	A	10.0	9.24	0.9642837	0.8906757		-7.6	30	
1,2,4-Trichlorobenzene	A	10.0	8.60	0.4110816	0.35365		-14.0	30	
1,2,4-Trimethylbenzene	A	10.0	9.47	1.524341	1.44286		-5.3	30	
1,2-Dibromoethane	A	10.0	9.90	0.5425024	0.5369687		-1.0	30	
1,2-Dichlorobenzene	A	10.0	10.0	0.8353294	0.838508		0.4	30	
1,2-Dichloroethane	A	10.0	8.83	0.8691031	0.7671013		-11.7	30	
1,2-Dichloropropane	A	10.0	10.0	0.3968577	0.3983557		0.4	30	
1,2-Dichlorotetrafluoroethane	A	10.0	8.01	1.125896	0.9015582		-19.9	30	
1,3,5-Trimethylbenzene	A	10.0	9.22	1.508624	1.391262		-7.8	30	
1,3-Butadiene	A	10.0	9.42	0.5288624	0.498252		-5.8	30	
1,3-Dichlorobenzene	A	10.0	10.1	0.8258866	0.8353066		1.1	30	
1,3-Dichloropropane	A	10.0	10.0	0.5417768	0.5435797		0.3	30	
1,4-Dichlorobenzene	A	10.0	10.2	0.7862207	0.8046191		2.3	30	
1,4-Dioxane	A	10.0	9.64	0.1970401	0.1900088		-3.6	30	
2,2,4-Trimethylpentane	A	10.0	9.21	3.284938	3.026094		-7.9	30	
2-Butanone	A	10.0	9.28	1.509739	1.401514		-7.2	30	
2-Hexanone	A	10.0	11.0	0.9403804	1.032108		9.8	30	
3-Chloropropene	A	10.0	9.51	0.9087415	0.8642182		-4.9	30	
4-Methyl-2-pentanone	A	10.0	10.5	1.111532	1.164575		4.8	30	
Acetone	A	10.0	8.90	1.091783	0.9714374		-11.0	30	
Acrolein	A	10.0	9.18	0.2944545	0.2704536		-8.2	30	
Acrylonitrile	A	10.0	8.83	0.6195954	0.5468891		-11.7	30	
Benzene	A	10.0	8.91	1.384757	1.234115		-10.9	30	

FORM VII

CONTINUING CALIBRATION CHECK

EPA TO-15

Laboratory:	ALS Environmental - Stratford	SDG:	25L1231
Client:	Langan Engineering & Environmental Services (NYC	Project:	170390601
Instrument ID:	TO15_AIR3	Calibration:	SL50019
Lab File ID:	TV034380.D	Calibration Date:	12/05/25 16:22
Sequence:	S5L2929	Injection Date:	12/29/25
Lab Sample ID:	S5L2929-CCV1	Injection Time:	10:14

		CONC. (ppbv)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	Q
Benzyl chloride	A	10.0	10.6	0.207913	0.2206238		6.1	30	
Bromodichloromethane	A	10.0	9.71	0.7147675	0.6943467		-2.9	30	
Bromoform	A	10.0	8.85	0.7518663	0.6655558		-11.5	30	
Bromomethane	A	10.0	9.10	0.4023979	0.366176		-9.0	30	
Carbon disulfide	A	10.0	9.27	1.265369	1.173134		-7.3	30	
Carbon tetrachloride	A	10.0	8.74	1.208097	1.055309		-12.6	30	
Chlorobenzene	A	10.0	9.35	0.9393937	0.8780154		-6.5	30	
Chloroethane	A	10.0	9.12	0.2815161	0.2566029		-8.8	30	
Chloroform	A	10.0	8.83	1.064936	0.940834		-11.7	30	
Chloromethane	A	10.0	8.25	0.6251673	0.5154667		-17.5	30	
cis-1,2-Dichloroethylene	A	10.0	8.85	0.8717435	0.7713978		-11.5	30	
cis-1,3-Dichloropropylene	A	10.0	9.94	0.5230718	0.5198102		-0.6	30	
Cyclohexane	A	10.0	9.25	1.122133	1.038103		-7.5	30	
Dibromochloromethane	A	10.0	9.63	0.7108834	0.6845487		-3.7	30	
Dichlorodifluoromethane	A	10.0	9.19	1.285574	1.180874		-8.1	30	
Ethyl acetate	A	10.0	9.62	1.735286	1.669343		-3.8	30	
Ethyl Benzene	A	10.0	9.40	1.652643	1.553116		-6.0	30	
Hexachlorobutadiene	A	10.0	10.3	0.8579495	0.8831031		2.9	30	
Isopropanol	A	10.0	9.64	1.381399	1.332109		-3.6	30	
Isopropylbenzene	A	10.0	9.32	1.841256	1.715841		-6.8	30	
Methyl Methacrylate	A	10.0	9.71	0.3316958	0.3222074		-2.9	30	
Methyl tert-butyl ether (MTBE)	A	10.0	8.86	1.395738	1.235989		-11.4	30	
Methylene chloride	A	10.0	9.50	0.8581368	0.8153814		-5.0	30	
Naphthalene	A	10.0	9.17	1.18502	1.0866		-8.3	30	
n-Butylbenzene	A	10.0	10.5	1.603788	1.688193		5.3	30	
n-Heptane	A	10.0	9.53	1.382305	1.317854		-4.7	30	
n-Hexane	A	10.0	9.35	1.034783	0.9674286		-6.5	30	
n-Propylbenzene	A	10.0	9.65	2.190583	2.114371		-3.5	30	
o-Xylene	A	10.0	9.15	1.333381	1.219988		-8.5	30	

FORM VII

CONTINUING CALIBRATION CHECK

EPA TO-15

Laboratory:	ALS Environmental - Stratford	SDG:	25L1231
Client:	Langan Engineering & Environmental Services (NYC	Project:	170390601
Instrument ID:	TO15_AIR3	Calibration:	SL50019
Lab File ID:	TV034380.D	Calibration Date:	12/05/25 16:22
Sequence:	S5L2929	Injection Date:	12/29/25
Lab Sample ID:	S5L2929-CCV1	Injection Time:	10:14

		CONC. (ppbv)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	Q
p- & m- Xylenes	A	20.0	18.5	1.286458	1.187806		-7.7	30	
p-Ethyltoluene	A	10.0	9.68	1.74703	1.691061		-3.2	30	
p-Isopropyltoluene	A	10.0	9.60	1.865437	1.790994		-4.0	30	
Propylene	A	10.0	9.31	0.4094219	0.3812637		-6.9	30	
sec-Butylbenzene	A	10.0	9.50	2.260114	2.148188		-5.0	30	
Styrene	A	10.0	9.47	0.9251963	0.8762691		-5.3	30	
tert-Butylbenzene	A	10.0	9.23	1.694204	1.562952		-7.7	30	
Tetrachloroethylene	A	10.0	9.33	0.5473934	0.5109755		-6.7	30	
Tetrahydrofuran	A	10.0	9.43	0.8826145	0.8319852		-5.7	30	
Toluene	A	10.0	9.73	1.101737	1.071498		-2.7	30	
trans-1,2-Dichloroethylene	A	10.0	9.26	0.8746699	0.809765		-7.4	30	
trans-1,3-Dichloropropylene	A	10.0	9.93	0.4963712	0.4929251		-0.7	30	
Trichloroethylene	A	10.0	9.71	0.4134972	0.4013643		-2.9	30	
Trichlorofluoromethane (Freon 11)	A	10.0	8.73	1.304183	1.138667		-12.7	30	
Vinyl acetate	A	10.0	8.94	1.497008	1.338121		-10.6	30	
Vinyl bromide	A	10.0	9.09	0.3904691	0.3547859		-9.1	30	
Vinyl Chloride	A	10.0	8.55	0.5220472	0.4461272		-14.5	30	

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

FORM VII

CONTINUING CALIBRATION CHECK

EPA TO-15

Laboratory:	ALS Environmental - Stratford	SDG:	25L1231
Client:	Langan Engineering & Environmental Services (NYC	Project:	170390601
Instrument ID:	TO15_AIR3	Calibration:	SL50019
Lab File ID:	TV034412.D	Calibration Date:	12/05/25 16:22
Sequence:	S5L3118	Injection Date:	12/30/25
Lab Sample ID:	S5L3118-CCV1	Injection Time:	11:00

		CONC. (ppbv)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	Q
1,1,1,2-Tetrachloroethane	A	10.0	9.20	0.5653081	0.5202622		-8.0	30	
1,1,1-Trichloroethane	A	10.0	8.57	1.19175	1.020949		-14.3	30	
1,1,2,2-Tetrachloroethane	A	10.0	9.89	0.8845984	0.8744857		-1.1	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	A	10.0	9.50	0.8714519	0.8281532		-5.0	30	
1,1,2-Trichloroethane	A	10.0	9.81	0.357346	0.3504777		-1.9	30	
1,1-Dichloroethane	A	10.0	9.49	1.017448	0.9660427		-5.1	30	
1,1-Dichloroethylene	A	10.0	9.35	0.9642837	0.9020232		-6.5	30	
1,2,4-Trichlorobenzene	A	10.0	8.92	0.4110816	0.3667804		-10.8	30	
1,2,4-Trimethylbenzene	A	10.0	9.43	1.524341	1.436778		-5.7	30	
1,2-Dibromoethane	A	10.0	10.1	0.5425024	0.5468306		0.8	30	
1,2-Dichlorobenzene	A	10.0	9.85	0.8353294	0.8225249		-1.5	30	
1,2-Dichloroethane	A	10.0	8.83	0.8691031	0.7677016		-11.7	30	
1,2-Dichloropropane	A	10.0	10.3	0.3968577	0.4070915		2.6	30	
1,2-Dichlorotetrafluoroethane	A	10.0	8.52	1.125896	0.959659		-14.8	30	
1,3,5-Trimethylbenzene	A	10.0	9.08	1.508624	1.370325		-9.2	30	
1,3-Butadiene	A	10.0	9.61	0.5288624	0.5082259		-3.9	30	
1,3-Dichlorobenzene	A	10.0	10.0	0.8258866	0.8281508		0.3	30	
1,3-Dichloropropane	A	10.0	10.2	0.5417768	0.5512548		1.7	30	
1,4-Dichlorobenzene	A	10.0	10.1	0.7862207	0.7911636		0.6	30	
1,4-Dioxane	A	10.0	10.1	0.1970401	0.1986679		0.8	30	
2,2,4-Trimethylpentane	A	10.0	9.44	3.284938	3.102145		-5.6	30	
2-Butanone	A	10.0	9.43	1.509739	1.423064		-5.7	30	
2-Hexanone	A	10.0	10.8	0.9403804	1.019737		8.4	30	
3-Chloropropene	A	10.0	9.61	0.9087415	0.8734886		-3.9	30	
4-Methyl-2-pentanone	A	10.0	10.4	1.111532	1.153948		3.8	30	
Acetone	A	10.0	8.93	1.091783	0.9744364		-10.7	30	
Acrolein	A	10.0	9.46	0.2944545	0.2785612		-5.4	30	
Acrylonitrile	A	10.0	9.03	0.6195954	0.5596027		-9.7	30	
Benzene	A	10.0	9.20	1.384757	1.274627		-8.0	30	

FORM VII

CONTINUING CALIBRATION CHECK

EPA TO-15

Laboratory:	ALS Environmental - Stratford	SDG:	25L1231
Client:	Langan Engineering & Environmental Services (NYC	Project:	170390601
Instrument ID:	TO15_AIR3	Calibration:	SL50019
Lab File ID:	TV034412.D	Calibration Date:	12/05/25 16:22
Sequence:	S5L3118	Injection Date:	12/30/25
Lab Sample ID:	S5L3118-CCV1	Injection Time:	11:00

		CONC. (ppbv)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	Q
Benzyl chloride	A	10.0	10.4	0.207913	0.2156831		3.7	30	
Bromodichloromethane	A	10.0	9.69	0.7147675	0.6924072		-3.1	30	
Bromoform	A	10.0	8.90	0.7518663	0.6693847		-11.0	30	
Bromomethane	A	10.0	9.57	0.4023979	0.3851171		-4.3	30	
Carbon disulfide	A	10.0	9.68	1.265369	1.225405		-3.2	30	
Carbon tetrachloride	A	10.0	8.79	1.208097	1.062381		-12.1	30	
Chlorobenzene	A	10.0	9.45	0.9393937	0.8873261		-5.5	30	
Chloroethane	A	10.0	9.53	0.2815161	0.2683381		-4.7	30	
Chloroform	A	10.0	9.08	1.064936	0.9665469		-9.2	30	
Chloromethane	A	10.0	8.64	0.6251673	0.5403199		-13.6	30	
cis-1,2-Dichloroethylene	A	10.0	9.00	0.8717435	0.7847299		-10.0	30	
cis-1,3-Dichloropropylene	A	10.0	10.2	0.5230718	0.5314623		1.6	30	
Cyclohexane	A	10.0	9.48	1.122133	1.063568		-5.2	30	
Dibromochloromethane	A	10.0	9.64	0.7108834	0.6851992		-3.6	30	
Dichlorodifluoromethane	A	10.0	9.44	1.285574	1.213284		-5.6	30	
Ethyl acetate	A	10.0	9.73	1.735286	1.688311		-2.7	30	
Ethyl Benzene	A	10.0	9.43	1.652643	1.557902		-5.7	30	
Hexachlorobutadiene	A	10.0	10.3	0.8579495	0.8853427		3.2	30	
Isopropanol	A	10.0	9.76	1.381399	1.34756		-2.4	30	
Isopropylbenzene	A	10.0	9.40	1.841256	1.730503		-6.0	30	
Methyl Methacrylate	A	10.0	10.1	0.3316958	0.3343212		0.8	30	
Methyl tert-butyl ether (MTBE)	A	10.0	9.07	1.395738	1.266212		-9.3	30	
Methylene chloride	A	10.0	9.58	0.8581368	0.8224321		-4.2	30	
Naphthalene	A	10.0	9.43	1.18502	1.117213		-5.7	30	
n-Butylbenzene	A	10.0	10.4	1.603788	1.66118		3.6	30	
n-Heptane	A	10.0	9.65	1.382305	1.333742		-3.5	30	
n-Hexane	A	10.0	9.65	1.034783	0.9981334		-3.5	30	
n-Propylbenzene	A	10.0	9.75	2.190583	2.136788		-2.5	30	
o-Xylene	A	10.0	9.19	1.333381	1.225377		-8.1	30	

FORM VII

CONTINUING CALIBRATION CHECK

EPA TO-15

Laboratory:	ALS Environmental - Stratford	SDG:	25L1231
Client:	Langan Engineering & Environmental Services (NYC	Project:	170390601
Instrument ID:	TO15_AIR3	Calibration:	SL50019
Lab File ID:	TV034412.D	Calibration Date:	12/05/25 16:22
Sequence:	S5L3118	Injection Date:	12/30/25
Lab Sample ID:	S5L3118-CCV1	Injection Time:	11:00

		CONC. (ppbv)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	Q
p- & m- Xylenes	A	20.0	18.5	1.286458	1.191364		-7.4	30	
p-Ethyltoluene	A	10.0	9.82	1.74703	1.715023		-1.8	30	
p-Isopropyltoluene	A	10.0	9.57	1.865437	1.785917		-4.3	30	
Propylene	A	10.0	9.39	0.4094219	0.3845792		-6.1	30	
sec-Butylbenzene	A	10.0	9.50	2.260114	2.148049		-5.0	30	
Styrene	A	10.0	9.54	0.9251963	0.8823366		-4.6	30	
tert-Butylbenzene	A	10.0	9.25	1.694204	1.566763		-7.5	30	
Tetrachloroethylene	A	10.0	9.45	0.5473934	0.5170531		-5.5	30	
Tetrahydrofuran	A	10.0	9.55	0.8826145	0.8427316		-4.5	30	
Toluene	A	10.0	9.79	1.101737	1.078839		-2.1	30	
trans-1,2-Dichloroethylene	A	10.0	9.44	0.8746699	0.8253879		-5.6	30	
trans-1,3-Dichloropropylene	A	10.0	9.94	0.4963712	0.4934368		-0.6	30	
Trichloroethylene	A	10.0	9.90	0.4134972	0.4092693		-1.0	30	
Trichlorofluoromethane (Freon 11)	A	10.0	8.87	1.304183	1.156614		-11.3	30	
Vinyl acetate	A	10.0	9.34	1.497008	1.398567		-6.6	30	
Vinyl bromide	A	10.0	9.61	0.3904691	0.375243		-3.9	30	
Vinyl Chloride	A	10.0	9.16	0.5220472	0.4782024		-8.4	30	

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

Data Path : C:\MassHunter\GCMS\1\data\2025\12-DEC\122925\
Data File : TV034380.D
Acq On : 29 Dec 2025 10:14 am
Operator : YR
Sample : SEQ-CCV1
Misc : QBTO3091525A
ALS Vial : 12 Sample Multiplier: 1
InstName : TO15_AIR3

Quant Time: Dec 29 11:09:55 2025
Quant Method : C:\MassHunter\GCMS\1\methods\AIR-3-DEC052025.M
Quant Title : TO15 VOC Analysis
QLast Update : Mon Dec 08 14:43:00 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Methane, bromochloro-	12.076	49	590948	10.00	ppbv		#-0.03
39) 1,4-Difluorobenzene	13.655	114	868844	10.00	ppbv		-0.03
55) d5-Chlorobenzene	18.928	117	793092	10.00	ppbv		#-0.03
Target Compounds							Qvalue
2) Propylene	5.022	42	225307	9.31	ppbv		97
3) Dichlorodifluoromethane	5.089	85	697835	9.19	ppbv	#	96
4) 1,2-Dichlorotetrafluor...	5.353	85	532774	8.01	ppbv		94
5) Chloromethane	5.578	50	304614	8.25	ppbv		99
6) Vinyl Chloride	5.851	62	263638	8.55	ppbv		95
7) 1,3-Butadiene	5.929	54	294441	9.42	ppbv		96
8) Bromomethane	6.726	94	216391	9.10	ppbv		99
9) Chloroethane	6.896	64	151639	9.12	ppbv	#	91
10) ethanol	7.009	45	151073	7.41	ppbv		89
11) Vinyl Bromide	7.350	106	209660	9.09	ppbv		99
12) Trichlorofluoromethane	7.472	101	672893	8.73	ppbv		98
13) Isopropanol	7.945	45	787207	9.64	ppbv		100
14) Acrolein	8.067	56	159824	9.18	ppbv	#	100
15) Acetone	8.173	43	574069	8.90	ppbv		96
16) Freon-113	8.340	101	467866	9.09	ppbv		98
17) 1,1-Dichloroethylene	8.568	61	526343	9.24	ppbv		84
18) 3-Chloropropene	9.160	41	510708	9.51	ppbv		88
19) Methylene Chloride	9.314	49	481848	9.50	ppbv	#	71
20) Acrylonitrile	9.392	53	323183	8.83	ppbv	#	100
21) Carbon disulfide	9.446	76	693261	9.27	ppbv	#	82
22) Methyl-tert-Butyl Ethe...	9.710	73	730405	8.86	ppbv	#	79
23) trans-1,2-Dichloroethy...	9.916	61	478529	9.26	ppbv		85
24) Hexane	10.208	57	571700	9.35	ppbv		95
25) Vinyl Acetate	10.523	43	790760	8.94	ppbv	#	99
26) 1,1-Dichloroethane	10.578	63	550359	9.15	ppbv	#	96
27) 2-Butanone	11.182	43	828222	9.28	ppbv	#	83
28) Ethyl Acetate	11.488	43	986495	9.62	ppbv	#	93
29) cis-1,2-Dichloroethylene	11.575	61	455856	8.85	ppbv		83
30) Chloroform	11.851	83	555984	8.83	ppbv	#	94
31) Tetrahydrofuran	12.173	42	491660	9.43	ppbv	#	81
32) 1,1,1-Trichlorethane	12.591	97	598622	8.50	ppbv		93
33) Cyclohexane	12.761	56	613465	9.25	ppbv	#	78
34) 2,2,4-Trimethylpentane	12.909	57	1788264	9.21	ppbv		99
35) Carbon Tetrachloride	13.054	117	623633	8.74	ppbv		100
36) 1,2-Dichloroethane	13.128	62	453317	8.83	ppbv		99
37) Benzene	13.260	78	729298	8.91	ppbv	#	100
38) n-Heptane	13.276	43	778783	9.53	ppbv	#	98
40) Trichloroethylene	14.295	95	348723	9.71	ppbv		98
41) 1,2-Dichloropropane	14.523	63	346109	10.04	ppbv	#	95
42) Methyl Methacrylate	14.533	69	279948	9.71	ppbv	#	79
43) 1,4-Dioxane	14.841	88	165088	9.64	ppbv	#	100
44) Bromodichloromethane	14.887	83	603279	9.71	ppbv	#	93
45) Methyl Isobutyl Ketone	15.423	43	1011834	10.48	ppbv		95
46) cis-1,3-Dichloropropene	15.777	75	451634	9.94	ppbv	#	93
47) Toluene	16.433	91	930965	9.73	ppbv		98
48) trans-1,3-Dichloropropene	16.591	75	428275	9.93	ppbv	#	93
49) 1,1,2-Trichlorethane	16.886	97	303039	9.76	ppbv	#	89
50) 2-Hexanone	16.893	43	896741	10.98	ppbv	#	96
51) 1,3-Dichloropropane	17.311	76	472286	10.03	ppbv	#	100
52) Tetrachloroethylene	17.629	166	443958	9.33	ppbv		99

Data Path : C:\MassHunter\GCMS\1\data\2025\12-DEC\122925\
Data File : TV034380.D
Acq On : 29 Dec 2025 10:14 am
Operator : YR
Sample : SEQ-CCV1
Misc : QBTO3091525A
ALS Vial : 12 Sample Multiplier: 1
InstName : TO15_AIR3

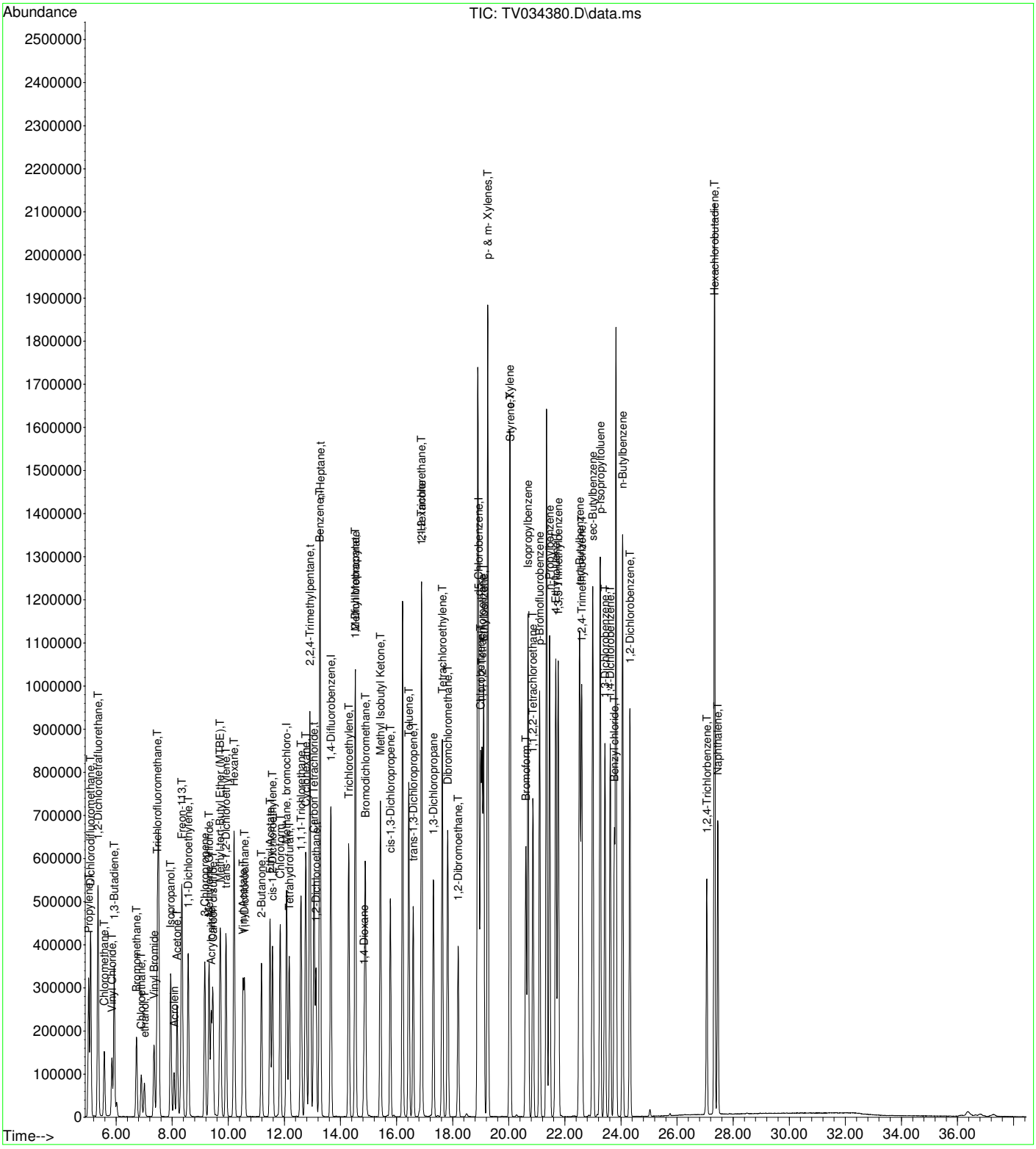
Quant Time: Dec 29 11:09:55 2025
Quant Method : C:\MassHunter\GCMS\1\methods\AIR-3-DEC052025.M
Quant Title : TO15 VOC Analysis
QLast Update : Mon Dec 08 14:43:00 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
53) Dibromchloromethane	17.822	129	594766	9.63	ppbv		98
54) 1,2-Dibromoethane	18.195	107	466542	9.90	ppbv		99
56) Chlorobenzene	18.996	112	696347	9.35	ppbv	#	100
57) 1,1,1,2-Tetrachloroethane	19.047	131	405577	9.05	ppbv		99
58) Ethylbenzene	19.105	91	1231764	9.40	ppbv		97
59) p- & m- Xylenes	19.250	91	1884079	18.47	ppbv		99
60) o-Xylene	20.034	91	967563	9.15	ppbv		99
61) Styrene	20.050	104	694962	9.47	ppbv	#	74
62) Bromoform	20.610	173	527847	8.85	ppbv		98
63) n-Propylbenzene	21.455	91	1676891	9.65	ppbv		100
64) Isopropylbenzene	20.687	105	1360820	9.32	ppbv		100
65) 1,1,2,2-Tetrachloroeth...	20.861	83	681596	9.72	ppbv	#	97
66) p-Bromofluorobenzene	21.098	95	594020	10.20	ppbv		93
67) 4-Ethyltoluene	21.677	105	1341167	9.68	ppbv		96
68) 1,3,5-Trimethylbenzene	21.761	105	1103399	9.22	ppbv		92
69) tert-Butylbenzene	22.526	119	1239565	9.23	ppbv	#	62
70) 1,2,4-Trimethylbenzene	22.600	105	1144321	9.47	ppbv	#	88
71) sec-Butylbenzene	22.996	105	1703711	9.50	ppbv	#	100
72) p-Isopropyltoluene	23.262	119	1420423	9.60	ppbv	#	89
73) 1,3-Dichlorobenzene	23.430	146	662475	10.11	ppbv		99
74) 1,4-Dichlorobenzene	23.619	146	638137	10.23	ppbv		99
75) Benzyl chloride	23.767	126	174975	10.61	ppbv	#	1
76) n-Butylbenzene	24.060	91	1338892	10.53	ppbv	#	83
77) 1,2-Dichlorobenzene	24.317	146	665014	10.04	ppbv		99
78) 1,2,4-Trichlorbenzene	27.060	180	280477	8.60	ppbv		95
79) Hexachlorobutadiene	27.333	225	700382	10.29	ppbv		97
80) Naphthalene	27.452	128	861774	9.17	ppbv		99

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

Data Path : C:\MassHunter\GCMS\1\data\2025\12-DEC\122925\
Data File : TV034380.D
Acq On : 29 Dec 2025 10:14 am
Operator : YR
Sample : SEQ-CCV1
Misc : QBTO3091525A
ALS Vial : 12 Sample Multiplier: 1
InstName : TO15_AIR3

Quant Time: Dec 29 11:09:55 2025
Quant Method : C:\MassHunter\GCMS\1\methods\AIR-3-DEC052025.M
Quant Title : TO15 VOC Analysis
QLast Update : Mon Dec 08 14:43:00 2025
Response via : Initial Calibration



Data Path : C:\MassHunter\GCMS\1\data\2025\12-DEC\122925\
Data File : TV034380.D
Acq On : 29 Dec 2025 10:14 am
Operator : YR
Sample : SEQ-CCV1
Misc : QBTO3091525A
ALS Vial : 12 Sample Multiplier: 1
InstName : TO15_AIR3

Quant Time: Dec 29 11:09:55 2025
Quant Method : C:\MassHunter\GCMS\1\methods\AIR-3-DEC052025.M
Quant Title : TO15 VOC Analysis
QLast Update : Mon Dec 08 14:43:00 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Methane, bromochloro-	12.076	49	590948	10.00	ppbv		#-0.03
39) 1,4-Difluorobenzene	13.655	114	868844	10.00	ppbv		-0.03
55) d5-Chlorobenzene	18.928	117	793092	10.00	ppbv		#-0.03
Target Compounds							Qvalue
2) Propylene	5.022	42	225307	9.31	ppbv		97
3) Dichlorodifluoromethane	5.089	85	697835	9.19	ppbv	#	96
4) 1,2-Dichlorotetrafluor...	5.353	85	532774	8.01	ppbv		94
5) Chloromethane	5.578	50	304614	8.25	ppbv		99
6) Vinyl Chloride	5.851	62	263638	8.55	ppbv		95
7) 1,3-Butadiene	5.929	54	294441	9.42	ppbv		96
8) Bromomethane	6.726	94	216391	9.10	ppbv		99
9) Chloroethane	6.896	64	151639	9.12	ppbv	#	91
10) ethanol	7.009	45	151073	7.41	ppbv		89
11) Vinyl Bromide	7.350	106	209660	9.09	ppbv		99
12) Trichlorofluoromethane	7.472	101	672893	8.73	ppbv		98
13) Isopropanol	7.945	45	787207	9.64	ppbv		100
14) Acrolein	8.067	56	159824	9.18	ppbv	#	100
15) Acetone	8.173	43	574069	8.90	ppbv		96
16) Freon-113	8.340	101	467866	9.09	ppbv		98
17) 1,1-Dichloroethylene	8.568	61	526343	9.24	ppbv		84
18) 3-Chloropropene	9.160	41	510708	9.51	ppbv		88
19) Methylene Chloride	9.314	49	481848	9.50	ppbv	#	71
20) Acrylonitrile	9.392	53	323183	8.83	ppbv	#	100
21) Carbon disulfide	9.446	76	693261	9.27	ppbv	#	82
22) Methyl-tert-Butyl Ethe...	9.710	73	730405	8.86	ppbv	#	79
23) trans-1,2-Dichloroethy...	9.916	61	478529	9.26	ppbv		85
24) Hexane	10.208	57	571700	9.35	ppbv		95
25) Vinyl Acetate	10.523	43	790760	8.94	ppbv	#	99
26) 1,1-Dichloroethane	10.578	63	550359	9.15	ppbv	#	96
27) 2-Butanone	11.182	43	828222	9.28	ppbv	#	83
28) Ethyl Acetate	11.488	43	986495	9.62	ppbv	#	93
29) cis-1,2-Dichloroethylene	11.575	61	455856	8.85	ppbv		83
30) Chloroform	11.851	83	555984	8.83	ppbv	#	94
31) Tetrahydrofuran	12.173	42	491660	9.43	ppbv	#	81
32) 1,1,1-Trichlorethane	12.591	97	598622	8.50	ppbv		93
33) Cyclohexane	12.761	56	613465	9.25	ppbv	#	78
34) 2,2,4-Trimethylpentane	12.909	57	1788264	9.21	ppbv		99
35) Carbon Tetrachloride	13.054	117	623633	8.74	ppbv		100
36) 1,2-Dichloroethane	13.128	62	453317	8.83	ppbv		99
37) Benzene	13.260	78	729298	8.91	ppbv	#	100
38) n-Heptane	13.276	43	778783	9.53	ppbv	#	98
40) Trichloroethylene	14.295	95	348723	9.71	ppbv		98
41) 1,2-Dichloropropane	14.523	63	346109	10.04	ppbv	#	95
42) Methyl Methacrylate	14.533	69	279948	9.71	ppbv	#	79
43) 1,4-Dioxane	14.841	88	165088	9.64	ppbv	#	100
44) Bromodichloromethane	14.887	83	603279	9.71	ppbv	#	93
45) Methyl Isobutyl Ketone	15.423	43	1011834	10.48	ppbv		95
46) cis-1,3-Dichloropropene	15.777	75	451634	9.94	ppbv	#	93
47) Toluene	16.433	91	930965	9.73	ppbv		98
48) trans-1,3-Dichloropropene	16.591	75	428275	9.93	ppbv	#	93
49) 1,1,2-Trichlorethane	16.886	97	303039	9.76	ppbv	#	89
50) 2-Hexanone	16.893	43	896741	10.98	ppbv	#	96
51) 1,3-Dichloropropane	17.311	76	472286	10.03	ppbv	#	100
52) Tetrachloroethylene	17.629	166	443958	9.33	ppbv		99

Data Path : C:\MassHunter\GCMS\1\data\2025\12-DEC\122925\
Data File : TV034380.D
Acq On : 29 Dec 2025 10:14 am
Operator : YR
Sample : SEQ-CCV1
Misc : QBTO3091525A
ALS Vial : 12 Sample Multiplier: 1
InstName : TO15_AIR3

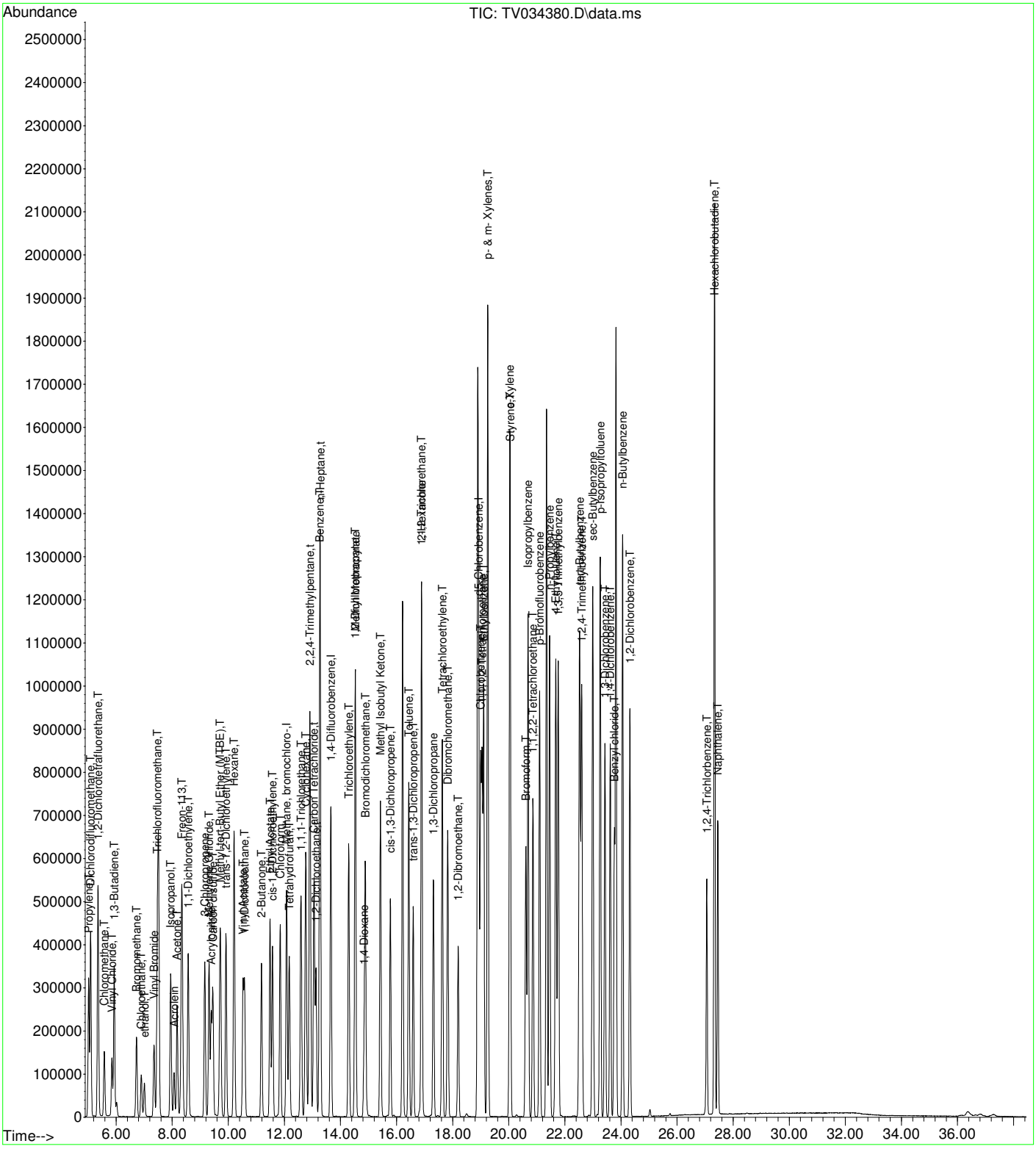
Quant Time: Dec 29 11:09:55 2025
Quant Method : C:\MassHunter\GCMS\1\methods\AIR-3-DEC052025.M
Quant Title : TO15 VOC Analysis
QLast Update : Mon Dec 08 14:43:00 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
53) Dibromchloromethane	17.822	129	594766	9.63	ppbv		98
54) 1,2-Dibromoethane	18.195	107	466542	9.90	ppbv		99
56) Chlorobenzene	18.996	112	696347	9.35	ppbv	#	100
57) 1,1,1,2-Tetrachloroethane	19.047	131	405577	9.05	ppbv		99
58) Ethylbenzene	19.105	91	1231764	9.40	ppbv		97
59) p- & m- Xylenes	19.250	91	1884079	18.47	ppbv		99
60) o-Xylene	20.034	91	967563	9.15	ppbv		99
61) Styrene	20.050	104	694962	9.47	ppbv	#	74
62) Bromoform	20.610	173	527847	8.85	ppbv		98
63) n-Propylbenzene	21.455	91	1676891	9.65	ppbv		100
64) Isopropylbenzene	20.687	105	1360820	9.32	ppbv		100
65) 1,1,2,2-Tetrachloroeth...	20.861	83	681596	9.72	ppbv	#	97
66) p-Bromofluorobenzene	21.098	95	594020	10.20	ppbv		93
67) 4-Ethyltoluene	21.677	105	1341167	9.68	ppbv		96
68) 1,3,5-Trimethylbenzene	21.761	105	1103399	9.22	ppbv		92
69) tert-Butylbenzene	22.526	119	1239565	9.23	ppbv	#	62
70) 1,2,4-Trimethylbenzene	22.600	105	1144321	9.47	ppbv	#	88
71) sec-Butylbenzene	22.996	105	1703711	9.50	ppbv	#	100
72) p-Isopropyltoluene	23.262	119	1420423	9.60	ppbv	#	89
73) 1,3-Dichlorobenzene	23.430	146	662475	10.11	ppbv		99
74) 1,4-Dichlorobenzene	23.619	146	638137	10.23	ppbv		99
75) Benzyl chloride	23.767	126	174975	10.61	ppbv	#	1
76) n-Butylbenzene	24.060	91	1338892	10.53	ppbv	#	83
77) 1,2-Dichlorobenzene	24.317	146	665014	10.04	ppbv		99
78) 1,2,4-Trichlorbenzene	27.060	180	280477	8.60	ppbv		95
79) Hexachlorobutadiene	27.333	225	700382	10.29	ppbv		97
80) Naphthalene	27.452	128	861774	9.17	ppbv		99

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

Data Path : C:\MassHunter\GCMS\1\data\2025\12-DEC\122925\
Data File : TV034380.D
Acq On : 29 Dec 2025 10:14 am
Operator : YR
Sample : SEQ-CCV1
Misc : QBTO3091525A
ALS Vial : 12 Sample Multiplier: 1
InstName : TO15_AIR3

Quant Time: Dec 29 11:09:55 2025
Quant Method : C:\MassHunter\GCMS\1\methods\AIR-3-DEC052025.M
Quant Title : TO15 VOC Analysis
QLast Update : Mon Dec 08 14:43:00 2025
Response via : Initial Calibration



Data Path : C:\MassHunter\GCMS\1\data\2025\12-DEC\123025\
Data File : TV034412.D
Acq On : 30 Dec 2025 11:00 am
Operator : YR
Sample : SEQ-CCV1
Misc : QBTO3091525A
ALS Vial : 12 Sample Multiplier: 1
InstName : TO15_AIR3

Quant Time: Dec 30 11:43:10 2025
Quant Method : C:\MassHunter\GCMS\1\methods\AIR-3-DEC052025.M
Quant Title : TO15 VOC Analysis
QLast Update : Mon Dec 08 14:43:00 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Methane, bromochloro-	12.076	49	593069	10.00	ppbv		#-0.03
39) 1,4-Difluorobenzene	13.655	114	889429	10.00	ppbv		-0.03
55) d5-Chlorobenzene	18.925	117	807685	10.00	ppbv		#-0.04
Target Compounds							Qvalue
2) Propylene	5.019	42	228082	9.39	ppbv		98
3) Dichlorodifluoromethane	5.090	85	719561	9.44	ppbv	#	97
4) 1,2-Dichlorotetrafluor...	5.353	85	569144	8.52	ppbv		94
5) Chloromethane	5.575	50	320447	8.64	ppbv		99
6) Vinyl Chloride	5.852	62	283607	9.16	ppbv		95
7) 1,3-Butadiene	5.929	54	301413	9.61	ppbv		96
8) Bromomethane	6.723	94	228401	9.57	ppbv		99
9) Chloroethane	6.897	64	159143	9.53	ppbv		91
10) ethanol	7.009	45	155648	7.60	ppbv		89
11) Vinyl Bromide	7.353	106	222545	9.61	ppbv		100
12) Trichlorofluoromethane	7.472	101	685952	8.87	ppbv		98
13) Isopropanol	7.945	45	799196	9.76	ppbv		100
14) Acrolein	8.064	56	165206	9.46	ppbv	#	100
15) Acetone	8.173	43	577908	8.93	ppbv		97
16) Freon-113	8.337	101	491152	9.50	ppbv		98
17) 1,1-Dichloroethylene	8.565	61	534962	9.35	ppbv		85
18) 3-Chloropropene	9.160	41	518039	9.61	ppbv		88
19) Methylene Chloride	9.311	49	487759	9.58	ppbv	#	72
20) Acrylonitrile	9.388	53	331883	9.03	ppbv	#	100
21) Carbon disulfide	9.446	76	726750	9.68	ppbv	#	84
22) Methyl-tert-Butyl Ethe...	9.710	73	750951	9.07	ppbv	#	80
23) trans-1,2-Dichloroethy...	9.916	61	489512	9.44	ppbv		86
24) Hexane	10.205	57	591962	9.65	ppbv		96
25) Vinyl Acetate	10.523	43	829447	9.34	ppbv	#	98
26) 1,1-Dichloroethane	10.575	63	572930	9.49	ppbv	#	96
27) 2-Butanone	11.179	43	843975	9.43	ppbv	#	84
28) Ethyl Acetate	11.488	43	1001285	9.73	ppbv	#	93
29) cis-1,2-Dichloroethylene	11.575	61	465399	9.00	ppbv		84
30) Chloroform	11.848	83	573229	9.08	ppbv	#	95
31) Tetrahydrofuran	12.173	42	499798	9.55	ppbv	#	82
32) 1,1,1-Trichlorethane	12.588	97	605493	8.57	ppbv		93
33) Cyclohexane	12.761	56	630769	9.48	ppbv	#	79
34) 2,2,4-Trimethylpentane	12.909	57	1839786	9.44	ppbv		99
35) Carbon Tetrachloride	13.057	117	630065	8.79	ppbv		100
36) 1,2-Dichloroethane	13.125	62	455300	8.83	ppbv		99
37) Benzene	13.260	78	755942	9.20	ppbv	#	100
38) n-Heptane	13.276	43	791001	9.65	ppbv	#	75
40) Trichloroethylene	14.292	95	364016	9.90	ppbv		98
41) 1,2-Dichloropropane	14.520	63	362079	10.26	ppbv	#	95
42) Methyl Methacrylate	14.533	69	297355	10.08	ppbv	#	79
43) 1,4-Dioxane	14.842	88	176701	10.08	ppbv	#	100
44) Bromodichloromethane	14.883	83	615847	9.69	ppbv	#	94
45) Methyl Isobutyl Ketone	15.424	43	1026355	10.38	ppbv		96
46) cis-1,3-Dichloropropene	15.774	75	472698	10.16	ppbv	#	94
47) Toluene	16.433	91	959551	9.79	ppbv		99
48) trans-1,3-Dichloropropene	16.587	75	438877	9.94	ppbv	#	93
49) 1,1,2-Trichlorethane	16.886	97	311725	9.81	ppbv	#	90
50) 2-Hexanone	16.890	43	906984	10.84	ppbv		98
51) 1,3-Dichloropropane	17.314	76	490302	10.17	ppbv	#	86
52) Tetrachloroethylene	17.626	166	459882	9.45	ppbv		99

Quantitation Report (QT Reviewed)

Data Path : C:\MassHunter\GCMS\1\data\2025\12-DEC\123025\
Data File : TV034412.D
Acq On : 30 Dec 2025 11:00 am
Operator : YR
Sample : SEQ-CCV1
Misc : QBTO3091525A
ALS Vial : 12 Sample Multiplier: 1
InstName : TO15_AIR3

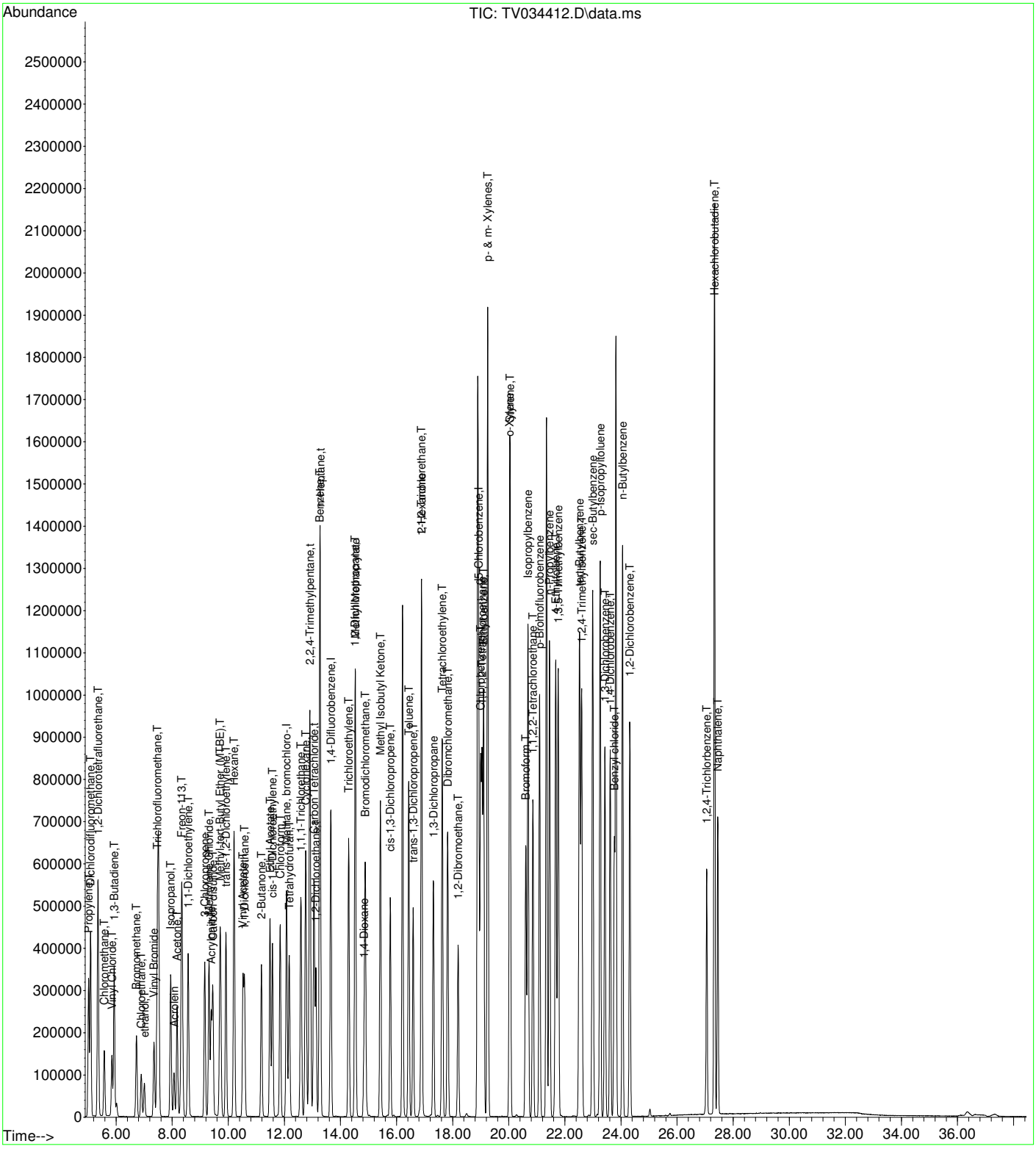
Quant Time: Dec 30 11:43:10 2025
Quant Method : C:\MassHunter\GCMS\1\methods\AIR-3-DEC052025.M
Quant Title : TO15 VOC Analysis
QLast Update : Mon Dec 08 14:43:00 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
53) Dibromchloromethane	17.819	129	609436	9.64	ppbv	98
54) 1,2-Dibromoethane	18.192	107	486367	10.08	ppbv	100
56) Chlorobenzene	18.996	112	716680	9.45	ppbv #	100
57) 1,1,1,2-Tetrachloroethane	19.047	131	420208	9.20	ppbv	98
58) Ethylbenzene	19.102	91	1258294	9.43	ppbv	97
59) p- & m- Xylenes	19.247	91	1924493	18.52	ppbv	99
60) o-Xylene	20.031	91	989719	9.19	ppbv	99
61) Styrene	20.047	104	712650	9.54	ppbv #	74
62) Bromoform	20.607	173	540652	8.90	ppbv	98
63) n-Propylbenzene	21.452	91	1725852	9.75	ppbv	100
64) Isopropylbenzene	20.684	105	1397701	9.40	ppbv	100
65) 1,1,2,2-Tetrachloroeth...	20.861	83	706309	9.89	ppbv	98
66) p-Bromofluorobenzene	21.099	95	601661	10.14	ppbv	93
67) 4-Ethyltoluene	21.674	105	1385198	9.82	ppbv	97
68) 1,3,5-Trimethylbenzene	21.761	105	1106791	9.08	ppbv	95
69) tert-Butylbenzene	22.523	119	1265451	9.25	ppbv #	62
70) 1,2,4-Trimethylbenzene	22.597	105	1160464	9.43	ppbv #	88
71) sec-Butylbenzene	22.992	105	1734947	9.50	ppbv #	100
72) p-Isopropyltoluene	23.259	119	1442458	9.57	ppbv #	100
73) 1,3-Dichlorobenzene	23.426	146	668885	10.03	ppbv	99
74) 1,4-Dichlorobenzene	23.616	146	639011	10.06	ppbv	99
75) Benzyl chloride	23.764	126	174204	10.37	ppbv #	1
76) n-Butylbenzene	24.057	91	1341710	10.36	ppbv #	90
77) 1,2-Dichlorobenzene	24.314	146	664341	9.85	ppbv	99
78) 1,2,4-Trichlorbenzene	27.056	180	296243	8.92	ppbv	95
79) Hexachlorobutadiene	27.333	225	715078	10.32	ppbv	97
80) Naphthalene	27.452	128	902356	9.43	ppbv	99

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

Data Path : C:\MassHunter\GCMS\1\data\2025\12-DEC\123025\
Data File : TV034412.D
Acq On : 30 Dec 2025 11:00 am
Operator : YR
Sample : SEQ-CCV1
Misc : QBTO3091525A
ALS Vial : 12 Sample Multiplier: 1
InstName : TO15_AIR3

Quant Time: Dec 30 11:43:10 2025
Quant Method : C:\MassHunter\GCMS\1\methods\AIR-3-DEC052025.M
Quant Title : TO15 VOC Analysis
QLast Update : Mon Dec 08 14:43:00 2025
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MassHunter\GCMS\1\data\2025\12-DEC\123025\
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QLast Update : Mon Dec 08 14:43:00 2025
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Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Methane, bromochloro-	12.076	49	593069	10.00	ppbv		#-0.03
39) 1,4-Difluorobenzene	13.655	114	889429	10.00	ppbv		-0.03
55) d5-Chlorobenzene	18.925	117	807685	10.00	ppbv		#-0.04
Target Compounds							Qvalue
2) Propylene	5.019	42	228082	9.39	ppbv		98
3) Dichlorodifluoromethane	5.090	85	719561	9.44	ppbv	#	97
4) 1,2-Dichlorotetrafluor...	5.353	85	569144	8.52	ppbv		94
5) Chloromethane	5.575	50	320447	8.64	ppbv		99
6) Vinyl Chloride	5.852	62	283607	9.16	ppbv		95
7) 1,3-Butadiene	5.929	54	301413	9.61	ppbv		96
8) Bromomethane	6.723	94	228401	9.57	ppbv		99
9) Chloroethane	6.897	64	159143	9.53	ppbv		91
10) ethanol	7.009	45	155648	7.60	ppbv		89
11) Vinyl Bromide	7.353	106	222545	9.61	ppbv		100
12) Trichlorofluoromethane	7.472	101	685952	8.87	ppbv		98
13) Isopropanol	7.945	45	799196	9.76	ppbv		100
14) Acrolein	8.064	56	165206	9.46	ppbv	#	100
15) Acetone	8.173	43	577908	8.93	ppbv		97
16) Freon-113	8.337	101	491152	9.50	ppbv		98
17) 1,1-Dichloroethylene	8.565	61	534962	9.35	ppbv		85
18) 3-Chloropropene	9.160	41	518039	9.61	ppbv		88
19) Methylene Chloride	9.311	49	487759	9.58	ppbv	#	72
20) Acrylonitrile	9.388	53	331883	9.03	ppbv	#	100
21) Carbon disulfide	9.446	76	726750	9.68	ppbv	#	84
22) Methyl-tert-Butyl Ethe...	9.710	73	750951	9.07	ppbv	#	80
23) trans-1,2-Dichloroethy...	9.916	61	489512	9.44	ppbv		86
24) Hexane	10.205	57	591962	9.65	ppbv		96
25) Vinyl Acetate	10.523	43	829447	9.34	ppbv	#	98
26) 1,1-Dichloroethane	10.575	63	572930	9.49	ppbv	#	96
27) 2-Butanone	11.179	43	843975	9.43	ppbv	#	84
28) Ethyl Acetate	11.488	43	1001285	9.73	ppbv	#	93
29) cis-1,2-Dichloroethylene	11.575	61	465399	9.00	ppbv		84
30) Chloroform	11.848	83	573229	9.08	ppbv	#	95
31) Tetrahydrofuran	12.173	42	499798	9.55	ppbv	#	82
32) 1,1,1-Trichlorethane	12.588	97	605493	8.57	ppbv		93
33) Cyclohexane	12.761	56	630769	9.48	ppbv	#	79
34) 2,2,4-Trimethylpentane	12.909	57	1839786	9.44	ppbv		99
35) Carbon Tetrachloride	13.057	117	630065	8.79	ppbv		100
36) 1,2-Dichloroethane	13.125	62	455300	8.83	ppbv		99
37) Benzene	13.260	78	755942	9.20	ppbv	#	100
38) n-Heptane	13.276	43	791001	9.65	ppbv	#	75
40) Trichloroethylene	14.292	95	364016	9.90	ppbv		98
41) 1,2-Dichloropropane	14.520	63	362079	10.26	ppbv	#	95
42) Methyl Methacrylate	14.533	69	297355	10.08	ppbv	#	79
43) 1,4-Dioxane	14.842	88	176701	10.08	ppbv	#	100
44) Bromodichloromethane	14.883	83	615847	9.69	ppbv	#	94
45) Methyl Isobutyl Ketone	15.424	43	1026355	10.38	ppbv		96
46) cis-1,3-Dichloropropene	15.774	75	472698	10.16	ppbv	#	94
47) Toluene	16.433	91	959551	9.79	ppbv		99
48) trans-1,3-Dichloropropene	16.587	75	438877	9.94	ppbv	#	93
49) 1,1,2-Trichlorethane	16.886	97	311725	9.81	ppbv	#	90
50) 2-Hexanone	16.890	43	906984	10.84	ppbv		98
51) 1,3-Dichloropropane	17.314	76	490302	10.17	ppbv	#	86
52) Tetrachloroethylene	17.626	166	459882	9.45	ppbv		99

Quantitation Report (QT Reviewed)

Data Path : C:\MassHunter\GCMS\1\data\2025\12-DEC\123025\
Data File : TV034412.D
Acq On : 30 Dec 2025 11:00 am
Operator : YR
Sample : SEQ-CCV1
Misc : QBTO3091525A
ALS Vial : 12 Sample Multiplier: 1
InstName : TO15_AIR3

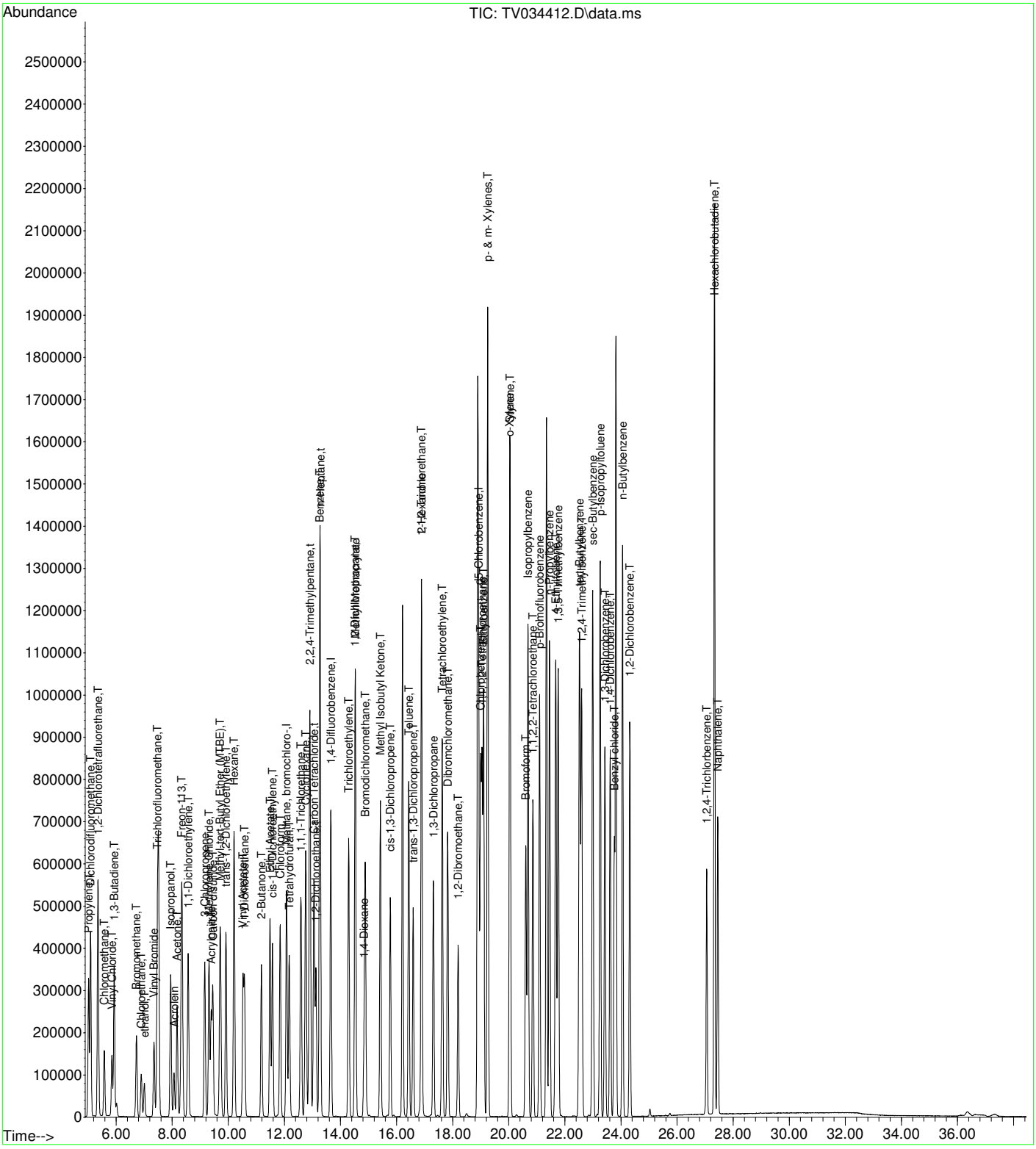
Quant Time: Dec 30 11:43:10 2025
Quant Method : C:\MassHunter\GCMS\1\methods\AIR-3-DEC052025.M
Quant Title : TO15 VOC Analysis
QLast Update : Mon Dec 08 14:43:00 2025
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59) p- & m- Xylenes	19.247	91	1924493	18.52	ppbv		99
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61) Styrene	20.047	104	712650	9.54	ppbv	#	74
62) Bromoform	20.607	173	540652	8.90	ppbv		98
63) n-Propylbenzene	21.452	91	1725852	9.75	ppbv		100
64) Isopropylbenzene	20.684	105	1397701	9.40	ppbv		100
65) 1,1,2,2-Tetrachloroeth...	20.861	83	706309	9.89	ppbv		98
66) p-Bromofluorobenzene	21.099	95	601661	10.14	ppbv		93
67) 4-Ethyltoluene	21.674	105	1385198	9.82	ppbv		97
68) 1,3,5-Trimethylbenzene	21.761	105	1106791	9.08	ppbv		95
69) tert-Butylbenzene	22.523	119	1265451	9.25	ppbv	#	62
70) 1,2,4-Trimethylbenzene	22.597	105	1160464	9.43	ppbv	#	88
71) sec-Butylbenzene	22.992	105	1734947	9.50	ppbv	#	100
72) p-Isopropyltoluene	23.259	119	1442458	9.57	ppbv	#	100
73) 1,3-Dichlorobenzene	23.426	146	668885	10.03	ppbv		99
74) 1,4-Dichlorobenzene	23.616	146	639011	10.06	ppbv		99
75) Benzyl chloride	23.764	126	174204	10.37	ppbv	#	1
76) n-Butylbenzene	24.057	91	1341710	10.36	ppbv	#	90
77) 1,2-Dichlorobenzene	24.314	146	664341	9.85	ppbv		99
78) 1,2,4-Trichlorbenzene	27.056	180	296243	8.92	ppbv		95
79) Hexachlorobutadiene	27.333	225	715078	10.32	ppbv		97
80) Naphthalene	27.452	128	902356	9.43	ppbv		99

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

Data Path : C:\MassHunter\GCMS\1\data\2025\12-DEC\123025\
Data File : TV034412.D
Acq On : 30 Dec 2025 11:00 am
Operator : YR
Sample : SEQ-CCV1
Misc : QBTO3091525A
ALS Vial : 12 Sample Multiplier: 1
InstName : TO15_AIR3

Quant Time: Dec 30 11:43:10 2025
Quant Method : C:\MassHunter\GCMS\1\methods\AIR-3-DEC052025.M
Quant Title : TO15 VOC Analysis
QLast Update : Mon Dec 08 14:43:00 2025
Response via : Initial Calibration



BENCHSHEETS

SDG: 25L1231

CLASS: AIR

METHOD: EPA TO-15

PREPARATION BENCH SHEET : BL51829

Preparation Date: 12/23/2025 08:00

ALS Environmental - Stratford

Matrix: Air

Samples And QC:

Lab Number	Analysis	Canister Vacuum (in. Hg) upon receipt	Final Canister Press. (psig) Analysis	Q	Spike	Source ID	Comments
25L1231-01 A	Q_A_Volatile Organics, EPA TO15 Full List	-6.43	+4.47				
25L1231-02 A	Q_A_Volatile Organics, EPA TO15 Full List	-6.41	+4.71				
25L1231-03 A	Q_A_Volatile Organics, EPA TO15 Full List	-4.42	+5.09				
BL51829-BLK1	Q_A_Volatile Organics, EPA TO15 Full List	NA	NA				
BL51829-BS1	Q_A_Volatile Organics, EPA TO15 Full List	NA	NA		S25L109		

Spike

Standard/Reagent ID	Description	LotNum	Volume (uL)
S25L109	TO15 AIR LCS/ICV @ 10 ppbv STATIC with ISO	071825	400

Surrogate

Standard/Reagent ID	Description	LotNum	Volume (uL)
S25E109	TO15 AIR SURR @10 PPBV STATIC	1621880_LL-104924	100

Preparations Performed by Brittany Michelle Connolly **Date:** **05/06/2025 10:43**

BENCHSHEETS

SDG: 25L1231

CLASS: AIR

METHOD: EPA TO-15

PREPARATION BENCH SHEET : BL51984

Preparation Date: 12/30/2025 08:00

ALS Environmental - Stratford

Matrix: Air

Samples And QC:

Lab Number	Analysis	Canister Vacuum (in. Hg) upon receipt	Final Canister Press. (psig) Analysis	Q	Spike	Source ID	Comments
25L1231-02RE1 A	Q_A_Volatile Organics, EPA TO15 Full List	-6.41	+4.71				From BL51829 by YR on 12/31/2025
BL51984-BLK1	Q_A_Volatile Organics, EPA TO15 Full List	NA	NA				
BL51984-BS1	Q_A_Volatile Organics, EPA TO15 Full List	NA	NA		S25L109		

Spike

Standard/Reagent ID	Description	LotNum	Volume (uL)
S25L109	TO15 AIR LCS/ICV @ 10 ppbv STATIC with ISO	071825	400

Surrogate

Standard/Reagent ID	Description	LotNum	Volume (uL)
S25E109	TO15 AIR SURR @10 PPBV STATIC	1621880_LL-104924	100

Preparations Performed by Brittany Michelle Connolly **Date:** **05/06/2025 10:43**

Field Chain-of-Custody Record - AIR

YORK
ANALYTICAL LABORATORIES INC

York Analytical Laboratories, Inc. (YORK)'s Standard Terms & Conditions are listed on the back side of this document.
This document serves as your written authorization for YORK to proceed with the analyses requested below.
Your signature binds you to YORK's Standard Terms & Conditions.

120 Research Drive Stratford, CT 06615 132-02 89th Ave Queens, NY 11418 clientservices@yorklab.com www.yorklab.com 800-306-YORK 800-306-9675

YORK Project No. 25L1231

Page 1 of 1

YOUR Information	Report To:	Invoice To:	YOUR Project Number	Turn-Around Time
Company: Langan Eng.	Company:	Company:	170390601	RUSH - Next Day
Address: 368 9th Ave 8th Fl NY NY 10001	Address: SAME	Address: SAME	YOUR Project Name: 2409 Jerome Ave	RUSH - Two Day
Phone: 212 479 5400	Phone:	Phone:		RUSH - Three Day
Contact: Kristin Wexler	Contact:	Contact:		RUSH - Four Day
E-mail: Kwexler@langan.com	E-mail:	E-mail:	YOUR PO#:	RUSH - Five Day
				Standard (6-9 Day) X

Please print clearly and legibly. All information must be complete. Samples will not be logged in and the turn-around-time clock will not begin until any questions by YORK are resolved.

Samples Collected by: (print AND sign your name)

Air Matrix Codes
AI: Indoor Ambient Air
AO: Outdoor Amb. Air
AE: Vapor Extraction Well Process Gas/Effluent
AS: Soil Vapor/Sub-Slab

Samples From
New York X
New Jersey
Connecticut
Pennsylvania
Other:

Report / EDD Type (circle selections)
Summary Report | CT RCP | Standard Excel EDD
QA Report | CT RCP DQA/DUE | EQuIS (Standard)
NY ASP A Package | NJDEP Reduced Deliverables | NYSDEC EQuIS
NY ASP B Package | NJDKQP | NJDEP SRP HazSite
Other:

YORK Reg. Comp.
Compared to the following Regulation(s): (please fill in)

Certified Canisters: Batch ___ Individual ___

Please enter the following REQUIRED Field Data

Reporting Units: ug/m^3 ___ ppbv ___ ppmv ___

Sample Identification	Date/Time Sample Start	Sample End	Matrix	Canister Vacuum (inHg) Before	Canister Vacuum (inHg) After	Canister ID #	Flow Cont. ID #	Canister Size (L)	Analysis Requested
SSV01_121925	12/19 9:07	16:27	AS	-30	-6	24163	20947	6	TO-15 VOCs
IA09_121925	12/19 9:07	16:15	AI	-28	-6	34503	20452	6	↓
AA01_121925	12/19 9:10	16:33	AO	-30	-6	41840	16423	6	↓

Comments: please cc: gwerya@langan.com datamanagement@langan.com

Container Ship Date:

Detection Limits Required
≤1 ug/m3 Routine Survey ___ NYSDEC V1 Limits ___ Other ___

1. Samples Relinquished by / Company	Date/Time	1. Samples Received by / Company	Date/Time
Langan 12/19		12/22/25 1035	1540
2. Samples Relinquished by / Company	Date/Time	2. Samples Received by / Company	Date/Time
3. Samples Relinquished by / Company	Date/Time	3. Samples Received by / Company	Date/Time
		12/22/25 1540	

Air Sampling Media Request Form

Canister Order No.: 12149

132-02 89th Avenue
Richmond Hill, NY 11418
TEL: 203-325-1371

Alt Ord No.: 1173675
Order Date: 12/10/2025
Requested By: Lea.Sherman

Client **Langan NY**
Address 21 Penn Plaza, 360 West 31st Street
New York,NY 10001
Phone (212) 479-5400

Client Contact: Kristen Wexler
Hardware Needed: 12/19/2025 am
Expected Return Date: 12/22/2025 10:42
Ship Date:

Delivery Method
York Courier

Drop of Address
2409 Jerome Avenue, Bronx, NY

Special Instructons:
D/O 7-8am

Type of Sample

Type	Size	Technique	Flow Rate	Sample Time(hr)	Quantity	IndivCert	Digital Gauge
Canister	6	RestrictedSampling		8	4	NO	NO

Hardware Details

Lab Number	Type	Serial #	Description	Cert Batch No.	Out Flow Rate (ml/min)	Return Flow Rate (ml/min)	Flow RPD
25L1231-01	**6**	**24163**	**Canister**	**13700**			
25L1231-01	**CS1200E**	**20947**	**FlowController**		**10.85**	**10.35**	**4.72**
25L1231-02	**6**	**34503**	**Canister**	**13701**			
25L1231-02	**CS1200E**	**20452**	**FlowController**		**10.86**	**10.69**	**1.58**
25L1231-03	**6**	**41840**	**Canister**	**13693**			
25L1231-03	**CS1200ES2**	**16423**	**FlowController**		**10.81**	**10.74**	**0.65**
NotUsedByClient	6	51014	Canister	13701			
NotUsedByClient	CS1200E	17894	FlowController		10.75		
	6		Canister				

Air Laboratory Bench Sheet

Batch BL51829 **Prepared** 12/17/2025 8:48

Can Order Number	Lab Number	Hardware Serial #	Field Final P	Lab Receipt P	Initial Analysis Pressure	Final Analysis Pressure	Pressure DF	Sample Volume	Analysis DF	Final DF	Cert Batch NO.
12149	25L1231-01	24163	-6.00	-6.00	-6.43 InHg	4.47	1.66	400	1.00	1.66	13700
12149	25L1231-02	34503	-6.00	-6.00	-6.41 InHg	4.71	1.68	750	0.53	0.90	13701
12149	25L1231-03	41840	-6.00	-6.00	-4.42 InHg	5.09	1.58	750	0.53	0.84	13693

Air Laboratory Batch Certfication Report
Canister Order No.(s): 12149

Cleaning Batch: 13693 — 12/11/2025 5:32:00 PM

Cert Run Analysis Date:	12/11/25 17:32	**Certification RunID:**	TO15_AIR3_BK51207	**Analyst:**	Luis
Certifiction Date:	12/12/25	**Cert Run File:**	TV034100.D	**Heating Unit:**	Oven 3
Prep Date:	12/03/25 08:08	**Method Blank SN:**	50986	**Cleaning Cycles:**	7

Can			Leak Check					
Lab#	**Serial #**	**Vol**	**InitalP**	**Date/Time**	**FinalP**	**Date/Time**	**Analyzed**	**Pass**
25L1231-03	41840	6	-30.00	12/04/25 07:25	-30.00	12/12/25 10:20	NO	YES
QBS	37285	6	-30.00	12/04/25 07:25	-30.00	12/12/25 10:20	YES	YES

Cleaning Batch: 13700 — 12/11/2025 7:49:00 PM

Cert Run Analysis Date:	12/11/25 19:49	**Certification RunID:**	TO15_AIR3_BK51207	**Analyst:**	Luis
Certifiction Date:	12/12/25	**Cert Run File:**	TV034103.D	**Heating Unit:**	OVEN 4
Prep Date:	12/04/25 08:12	**Method Blank SN:**	50986	**Cleaning Cycles:**	7

Can			Leak Check					
Lab#	**Serial #**	**Vol**	**InitalP**	**Date/Time**	**FinalP**	**Date/Time**	**Analyzed**	**Pass**
25L1231-01	24163	6	-30.00	12/04/25 14:55	-30.00	12/12/25 10:16	NO	YES
QBS	18294	6	-30.00	12/04/25 14:55	-30.00	12/12/25 10:16	YES	YES

Cleaning Batch: 13701 — 12/11/2025 8:35:00 PM

Cert Run Analysis Date:	12/11/25 20:35	**Certification RunID:**	TO15_AIR3_BK51207	**Analyst:**	Luis
Certifiction Date:	12/12/25	**Cert Run File:**	TV034104.D	**Heating Unit:**	OVEN 3
Prep Date:	12/04/25 08:26	**Method Blank SN:**	50986	**Cleaning Cycles:**	7

Can			Leak Check					
Lab#	**Serial #**	**Vol**	**InitalP**	**Date/Time**	**FinalP**	**Date/Time**	**Analyzed**	**Pass**
25L1231-02	34503	6	-30.00	12/05/25 07:14	-30.00	12/12/25 10:18	NO	YES
QBS	50277	6	-30.00	12/05/25 07:14	-30.00	12/12/25 10:18	YES	YES

Air Laboratory QBS Report

Canister Order No.(s): 12149

Cert Batch No.: 13693
Lims Batch ID: BK51207
Instrument: TO15_AIR3
File Id: BK51207-BLKK
Analysis: EPA TO-15

Can Serial No.: 37285
Analyst: YR
Analysis Date: 12/11/25 17:32
File Id: TV034100.D

Analyte	Result	Units	Result wt/Vol	wt/Vol units	MRL	Units
1,1,1,2-Tetrachloroethane	ND	ppbv	ND	ug/m3	0.10	ppbv
1,1,1-Trichloroethane	ND	ppbv	ND	ug/m3	0.10	ppbv
1,1,2,2-Tetrachloroethane	ND	ppbv	ND	ug/m3	0.10	ppbv
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	ppbv	ND	ug/m3	0.10	ppbv
1,1,2-Trichloroethane	ND	ppbv	ND	ug/m3	0.10	ppbv
1,1-Dichloroethane	ND	ppbv	ND	ug/m3	0.10	ppbv
1,1-Dichloroethylene	ND	ppbv	ND	ug/m3	0.05	ppbv
1,2,4-Trichlorobenzene	ND	ppbv	ND	ug/m3	5.00	ppbv
1,2,4-Trimethylbenzene	ND	ppbv	ND	ug/m3	0.10	ppbv
1,2-Dibromoethane	ND	ppbv	ND	ug/m3	0.10	ppbv
1,2-Dichlorobenzene	ND	ppbv	ND	ug/m3	0.10	ppbv
1,2-Dichloroethane	ND	ppbv	ND	ug/m3	0.10	ppbv
1,2-Dichloropropane	ND	ppbv	ND	ug/m3	0.10	ppbv
1,2-Dichlorotetrafluoroethane	ND	ppbv	ND	ug/m3	0.10	ppbv
1,3,5-Trimethylbenzene	ND	ppbv	ND	ug/m3	0.10	ppbv
1,3-Butadiene	ND	ppbv	ND	ug/m3	0.30	ppbv
1,3-Dichlorobenzene	ND	ppbv	ND	ug/m3	0.10	ppbv
1,3-Dichloropropane	ND	ppbv	ND	ug/m3	0.10	ppbv
1,4-Dichlorobenzene	ND	ppbv	ND	ug/m3	0.10	ppbv
1,4-Dioxane	ND	ppbv	ND	ug/m3	0.50	ppbv
2,2,4-Trimethylpentane	ND	ppbv	ND	ug/m3	0.05	ppbv
2-Butanone	ND	ppbv	ND	ug/m3	5.00	ppbv
2-Hexanone	ND	ppbv	ND	ug/m3	0.20	ppbv
3-Chloropropene	ND	ppbv	ND	ug/m3	0.50	ppbv
4-Methyl-2-pentanone	ND	ppbv	ND	ug/m3	0.10	ppbv
Acetone	ND	ppbv	ND	ug/m3	5.00	ppbv
Acrolein	ND	ppbv	ND	ug/m3	0.10	ppbv
Acrylonitrile	ND	ppbv	ND	ug/m3	5.00	ppbv
Benzene	ND	ppbv	ND	ug/m3	0.10	ppbv
Benzyl chloride	ND	ppbv	ND	ug/m3	2.50	ppbv
Bromodichloromethane	ND	ppbv	ND	ug/m3	0.10	ppbv
Bromoform	ND	ppbv	ND	ug/m3	0.10	ppbv
Bromomethane	ND	ppbv	ND	ug/m3	0.10	ppbv
Carbon disulfide	ND	ppbv	ND	ug/m3	0.10	ppbv
Carbon tetrachloride	ND	ppbv	ND	ug/m3	0.03	ppbv
Chlorobenzene	ND	ppbv	ND	ug/m3	0.10	ppbv
Chloroethane	ND	ppbv	ND	ug/m3	0.10	ppbv
Chloroform	ND	ppbv	ND	ug/m3	0.10	ppbv
Chloromethane	ND	ppbv	ND	ug/m3	0.10	ppbv
cis-1,2-Dichloroethylene	ND	ppbv	ND	ug/m3	0.05	ppbv
cis-1,3-Dichloropropylene	ND	ppbv	ND	ug/m3	0.10	ppbv
Cyclohexane	ND	ppbv	ND	ug/m3	0.10	ppbv
Dibromochloromethane	ND	ppbv	ND	ug/m3	0.10	ppbv
Dichlorodifluoromethane	ND	ppbv	ND	ug/m3	0.10	ppbv
Ethyl acetate	ND	ppbv	ND	ug/m3	5.00	ppbv
Ethyl Benzene	ND	ppbv	ND	ug/m3	0.10	ppbv
Hexachlorobutadiene	ND	ppbv	ND	ug/m3	0.10	ppbv
Isopropanol	ND	ppbv	ND	ug/m3	0.60	ppbv
Isopropylbenzene	ND	ppbv	ND	ug/m3	0.10	ppbv
Methyl Methacrylate	ND	ppbv	ND	ug/m3	0.10	ppbv
Methyl tert-butyl ether (MTBE)	ND	ppbv	ND	ug/m3	0.10	ppbv

Air Laboratory QBS Report

Canister Order No.(s): 12149

Cert Batch No.: 13693
Lims Batch ID: BK51207
Instrument: TO15_AIR3
File Id: BK51207-BLKK
Analysis: EPA TO-15

Can Serial No.: 37285
Analyst: YR
Analysis Date: 12/11/25 17:32
File Id: TV034100.D

Analyte	Result	Units	Result wt/Vol	wt/Vol units	MRL	Units
Methylene chloride	ND	ppbv	ND	ug/m3	0.60	ppbv
Naphthalene	ND	ppbv	ND	ug/m3	1.00	ppbv
n-Butylbenzene	ND	ppbv	ND	ug/m3	0.10	ppbv
n-Heptane	ND	ppbv	ND	ug/m3	0.10	ppbv
n-Hexane	ND	ppbv	ND	ug/m3	0.10	ppbv
n-Propylbenzene	ND	ppbv	ND	ug/m3	0.10	ppbv
o-Xylene	ND	ppbv	ND	ug/m3	0.10	ppbv
p- & m- Xylenes	ND	ppbv	ND	ug/m3	0.20	ppbv
p-Ethyltoluene	ND	ppbv	ND	ug/m3	0.10	ppbv
p-Isopropyltoluene	ND	ppbv	ND	ug/m3	0.10	ppbv
Propylene	ND	ppbv	ND	ug/m3	0.10	ppbv
sec-Butylbenzene	ND	ppbv	ND	ug/m3	0.10	ppbv
Styrene	ND	ppbv	ND	ug/m3	0.10	ppbv
tert-Butylbenzene	ND	ppbv	ND	ug/m3	0.10	ppbv
Tetrachloroethylene	ND	ppbv	ND	ug/m3	0.10	ppbv
Tetrahydrofuran	ND	ppbv	ND	ug/m3	0.20	ppbv
Toluene	ND	ppbv	ND	ug/m3	0.10	ppbv
trans-1,2-Dichloroethylene	ND	ppbv	ND	ug/m3	0.10	ppbv
trans-1,3-Dichloropropylene	ND	ppbv	ND	ug/m3	0.10	ppbv
Trichloroethylene	ND	ppbv	ND	ug/m3	0.03	ppbv
Trichlorofluoromethane (Freon 11)	ND	ppbv	ND	ug/m3	0.10	ppbv
Vinyl acetate	ND	ppbv	ND	ug/m3	0.10	ppbv
Vinyl bromide	ND	ppbv	ND	ug/m3	0.10	ppbv
Vinyl Chloride	ND	ppbv	ND	ug/m3	0.05	ppbv
Xylenes, Total	ND	ppbv	ND	ug/m3	0.30	ppbv

Data Path : C:\MassHunter\GCMS\1\data\2025\12-DEC\121125\
Data File : TV034100.D
Acq On : 11 Dec 2025 05:32 pm
Operator : YR
Sample : BK51207-BLKF
Misc : QBTO3091525A 1X QBS 13693
ALS Vial : 12 Sample Multiplier: 1
InstName : TO15_AIR3

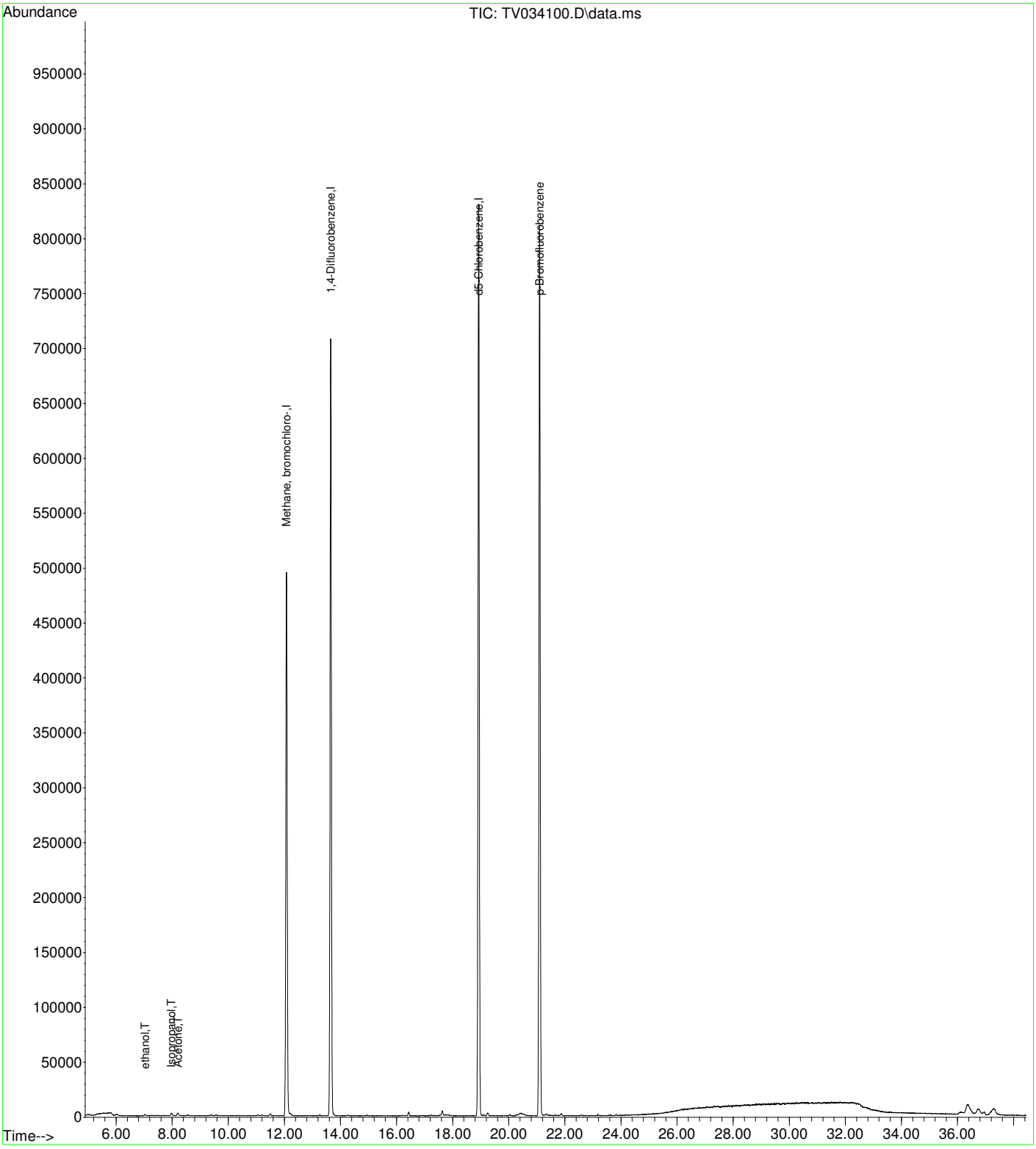
Quant Time: Dec 12 08:30:39 2025
Quant Method : C:\MassHunter\GCMS\1\methods\AIR-3-DEC052025.M
Quant Title : TO15 VOC Analysis
QLast Update : Mon Dec 08 14:43:00 2025
Response via : Initial Calibration

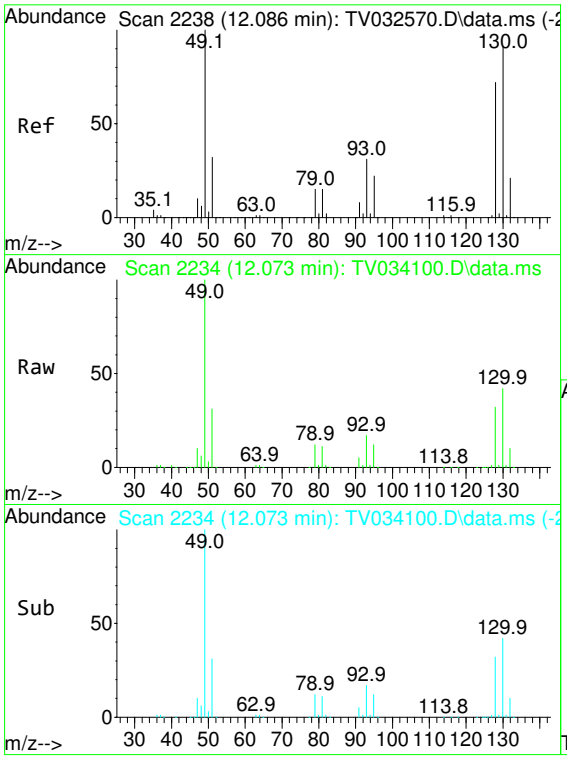
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Methane, bromochloro-	12.073	49	552733	10.00	ppbv	#-0.04
39) 1,4-Difluorobenzene	13.652	114	849323	10.00	ppbv	-0.04
55) d5-Chlorobenzene	18.925	117	736131	10.00	ppbv	#-0.04
Target Compounds						Qvalue
10) ethanol	7.035	45	2811	0.15	ppbv	# 83
13) Isopropanol	7.967	45	5284	0.07	ppbv	# 99
15) Acetone	8.202	43	6323	0.10	ppbv	94
66) p-Bromofluorobenzene	21.098	95	478258	8.84	ppbv	91

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

Data Path : C:\MassHunter\GCMS\1\data\2025\12-DEC\121125\
Data File : TV034100.D
Acq On : 11 Dec 2025 05:32 pm
Operator : YR
Sample : BK51207-BLKF
Misc : QBTO3091525A 1X QBS 13693
ALS Vial : 12 Sample Multiplier: 1
InstName : TO15_AIR3

Quant Time: Dec 12 08:30:39 2025
Quant Method : C:\MassHunter\GCMS\1\methods\AIR-3-DEC052025.M
Quant Title : TO15 VOC Analysis
QLast Update : Mon Dec 08 14:43:00 2025
Response via : Initial Calibration

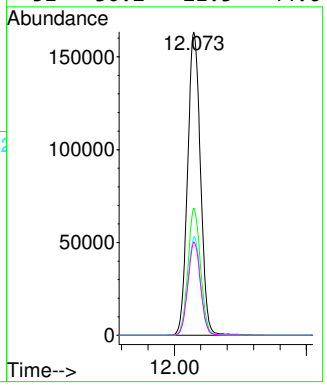


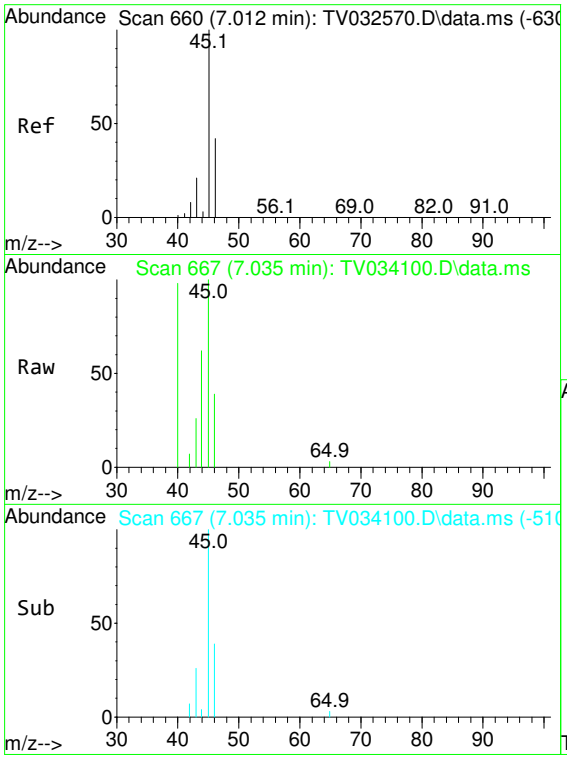


#1
Methane, bromochloro-
Concen: 10.00 ppbv
RT: 12.073 min Scan# 2234
Delta R.T. -0.038 min
Lab File: TV034100.D
Acq: 11 Dec 2025 05:32 pm

Tgt Ion: 49 Resp: 552733

Ion	Ratio	Lower	Upper
49	100		
130	41.0	44.5	92.3#
128	32.0	34.7	72.1#
51	30.2	21.5	44.6

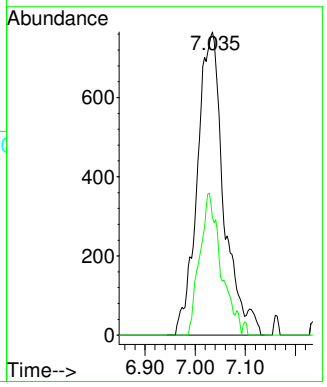


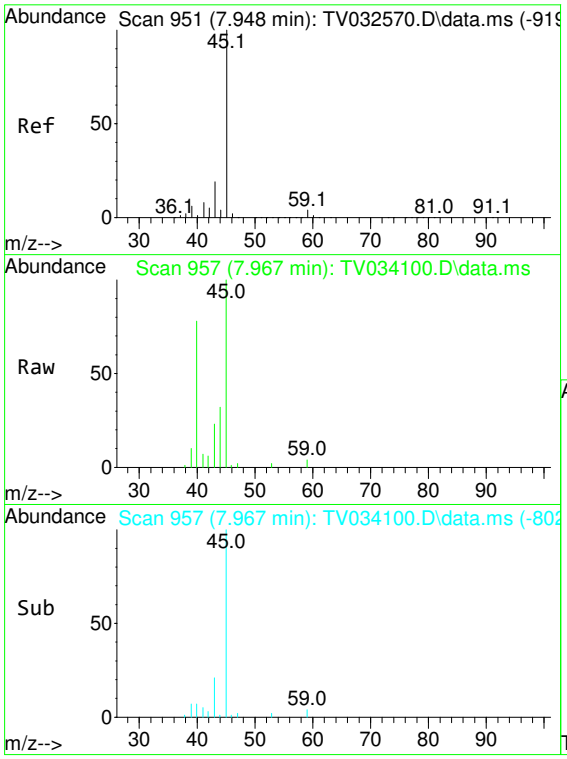


#10
ethanol
Concen: 0.15 ppbv
RT: 7.035 min Scan# 667
Delta R.T. 0.004 min
Lab File: TV034100.D
Acq: 11 Dec 2025 05:32 pm

Tgt Ion: 45 Resp: 2811

Ion	Ratio	Lower	Upper
45	100		
46	38.1	40.0	60.0#

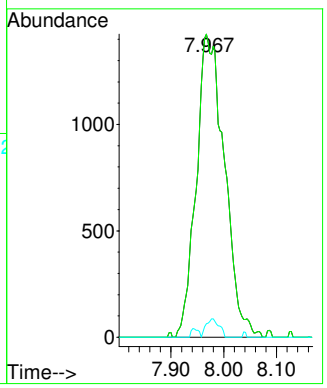


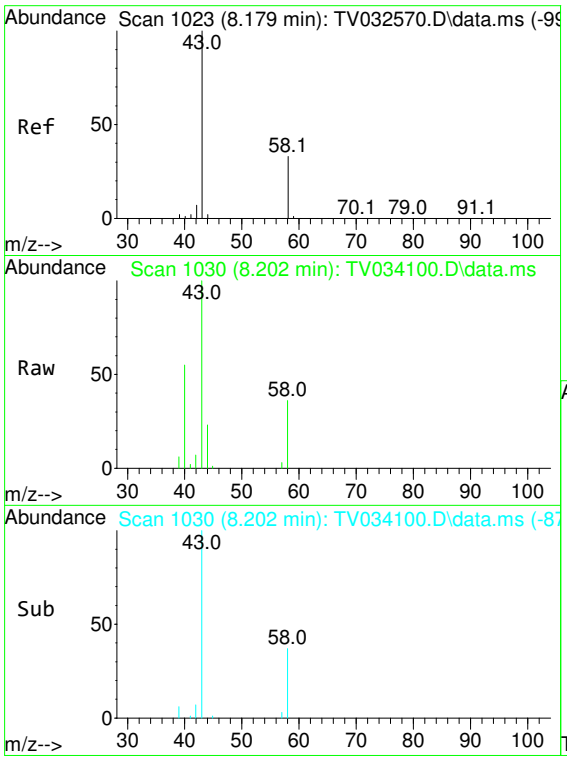


#13
Isopropanol
Concen: 0.07 ppbv
RT: 7.967 min Scan# 957
Delta R.T. -0.002 min
Lab File: TV034100.D
Acq: 11 Dec 2025 05:32 pm

Tgt Ion: 45 Resp: 5284

Ion	Ratio	Lower	Upper
45	100		
45	100.0	65.0	135.0
59	0.0	0.0	8.4

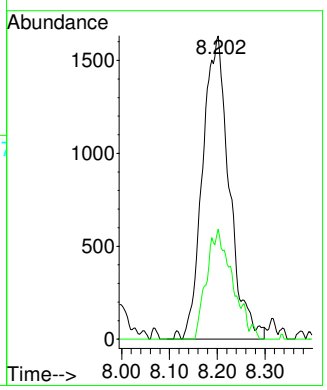


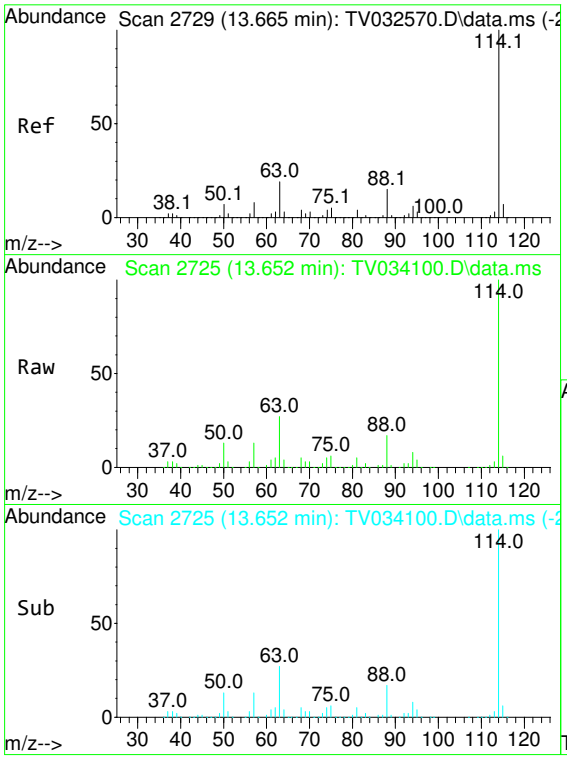


#15
Acetone
Concen: 0.10 ppbv
RT: 8.202 min Scan# 1030
Delta R.T. 0.001 min
Lab File: TV034100.D
Acq: 11 Dec 2025 05:32 pm

Tgt Ion: 43 Resp: 6323

Ion	Ratio	Lower	Upper
43	100		
58	35.2	20.7	42.9

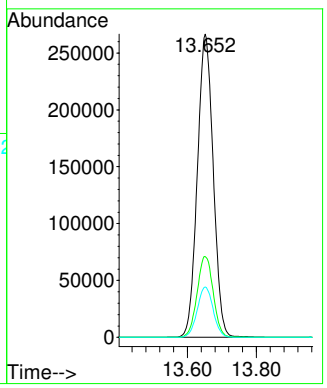


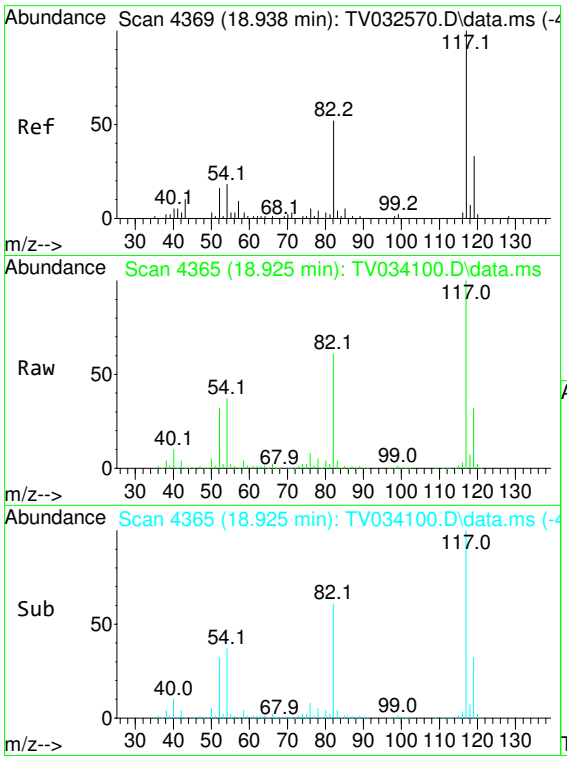


#39
1,4-Difluorobenzene
Concen: 10.00 ppbv
RT: 13.652 min Scan# 2725
Delta R.T. -0.037 min
Lab File: TV034100.D
Acq: 11 Dec 2025 05:32 pm

Tgt Ion:114 Resp: 849323

Ion	Ratio	Lower	Upper
114	100		
63	27.1	14.0	29.2
88	16.7	11.2	23.2

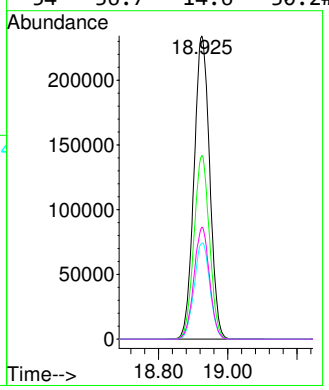


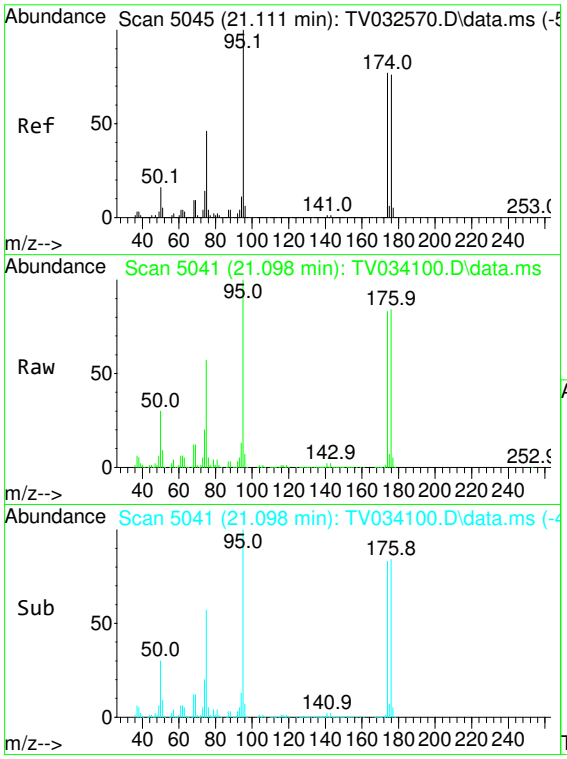


#55
d5-Chlorobenzene
Concen: 10.00 ppbv
RT: 18.925 min Scan# 4365
Delta R.T. -0.037 min
Lab File: TV034100.D
Acq: 11 Dec 2025 05:32 pm

Tgt Ion:117 Resp: 736131

Ion	Ratio	Lower	Upper
117	100		
82	60.1	38.7	80.5
119	32.0	20.3	42.3
54	36.7	14.6	30.2#

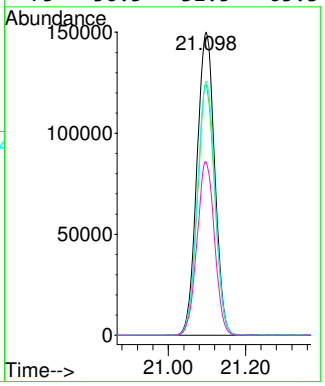




#66
p-Bromofluorobenzene
Concen: 8.84 ppbv
RT: 21.098 min Scan# 5041
Delta R.T. -0.037 min
Lab File: TV034100.D
Acq: 11 Dec 2025 05:32 pm

Tgt Ion: 95 Resp: 478258

Ion	Ratio	Lower	Upper
95	100		
174	81.1	50.0	103.8
176	83.5	48.2	100.2
75	56.5	31.5	65.3



Air Laboratory QBS Report

Canister Order No.(s): 12149

Cert Batch No.: 13700
Lims Batch ID: BK51207
Instrument: TO15_AIR3
File Id: BK51207-BLKI
Analysis: EPA TO-15

Can Serial No.: 18294
Analyst: YR
Analysis Date: 12/11/25 19:49
File Id: TV034103.D

Analyte	Result	Units	Result wt/Vol	wt/Vol units	MRL	Units
1,1,1,2-Tetrachloroethane	ND	ppbv	ND	ug/m3	0.10	ppbv
1,1,1-Trichloroethane	ND	ppbv	ND	ug/m3	0.10	ppbv
1,1,2,2-Tetrachloroethane	ND	ppbv	ND	ug/m3	0.10	ppbv
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	ppbv	ND	ug/m3	0.10	ppbv
1,1,2-Trichloroethane	ND	ppbv	ND	ug/m3	0.10	ppbv
1,1-Dichloroethane	ND	ppbv	ND	ug/m3	0.10	ppbv
1,1-Dichloroethylene	ND	ppbv	ND	ug/m3	0.05	ppbv
1,2,4-Trichlorobenzene	ND	ppbv	ND	ug/m3	5.00	ppbv
1,2,4-Trimethylbenzene	ND	ppbv	ND	ug/m3	0.10	ppbv
1,2-Dibromoethane	ND	ppbv	ND	ug/m3	0.10	ppbv
1,2-Dichlorobenzene	ND	ppbv	ND	ug/m3	0.10	ppbv
1,2-Dichloroethane	ND	ppbv	ND	ug/m3	0.10	ppbv
1,2-Dichloropropane	ND	ppbv	ND	ug/m3	0.10	ppbv
1,2-Dichlorotetrafluoroethane	ND	ppbv	ND	ug/m3	0.10	ppbv
1,3,5-Trimethylbenzene	ND	ppbv	ND	ug/m3	0.10	ppbv
1,3-Butadiene	ND	ppbv	ND	ug/m3	0.30	ppbv
1,3-Dichlorobenzene	ND	ppbv	ND	ug/m3	0.10	ppbv
1,3-Dichloropropane	ND	ppbv	ND	ug/m3	0.10	ppbv
1,4-Dichlorobenzene	ND	ppbv	ND	ug/m3	0.10	ppbv
1,4-Dioxane	ND	ppbv	ND	ug/m3	0.50	ppbv
2,2,4-Trimethylpentane	ND	ppbv	ND	ug/m3	0.05	ppbv
2-Butanone	ND	ppbv	ND	ug/m3	5.00	ppbv
2-Hexanone	ND	ppbv	ND	ug/m3	0.20	ppbv
3-Chloropropene	ND	ppbv	ND	ug/m3	0.50	ppbv
4-Methyl-2-pentanone	ND	ppbv	ND	ug/m3	0.10	ppbv
Acetone	ND	ppbv	ND	ug/m3	5.00	ppbv
Acrolein	ND	ppbv	ND	ug/m3	0.10	ppbv
Acrylonitrile	ND	ppbv	ND	ug/m3	5.00	ppbv
Benzene	ND	ppbv	ND	ug/m3	0.10	ppbv
Benzyl chloride	ND	ppbv	ND	ug/m3	2.50	ppbv
Bromodichloromethane	ND	ppbv	ND	ug/m3	0.10	ppbv
Bromoform	ND	ppbv	ND	ug/m3	0.10	ppbv
Bromomethane	ND	ppbv	ND	ug/m3	0.10	ppbv
Carbon disulfide	ND	ppbv	ND	ug/m3	0.10	ppbv
Carbon tetrachloride	ND	ppbv	ND	ug/m3	0.03	ppbv
Chlorobenzene	ND	ppbv	ND	ug/m3	0.10	ppbv
Chloroethane	ND	ppbv	ND	ug/m3	0.10	ppbv
Chloroform	ND	ppbv	ND	ug/m3	0.10	ppbv
Chloromethane	ND	ppbv	ND	ug/m3	0.10	ppbv
cis-1,2-Dichloroethylene	ND	ppbv	ND	ug/m3	0.05	ppbv
cis-1,3-Dichloropropylene	ND	ppbv	ND	ug/m3	0.10	ppbv
Cyclohexane	ND	ppbv	ND	ug/m3	0.10	ppbv
Dibromochloromethane	ND	ppbv	ND	ug/m3	0.10	ppbv
Dichlorodifluoromethane	ND	ppbv	ND	ug/m3	0.10	ppbv
Ethyl acetate	ND	ppbv	ND	ug/m3	5.00	ppbv
Ethyl Benzene	ND	ppbv	ND	ug/m3	0.10	ppbv
Hexachlorobutadiene	ND	ppbv	ND	ug/m3	0.10	ppbv
Isopropanol	ND	ppbv	ND	ug/m3	0.60	ppbv
Isopropylbenzene	ND	ppbv	ND	ug/m3	0.10	ppbv
Methyl Methacrylate	ND	ppbv	ND	ug/m3	0.10	ppbv
Methyl tert-butyl ether (MTBE)	ND	ppbv	ND	ug/m3	0.10	ppbv

Air Laboratory QBS Report

Canister Order No.(s): 12149

Cert Batch No.: 13700
Lims Batch ID: BK51207
Instrument: TO15_AIR3
File Id: BK51207-BLKI
Analysis: EPA TO-15

Can Serial No.: 18294
Analyst: YR
Analysis Date: 12/11/25 19:49
File Id: TV034103.D

Analyte	Result	Units	Result wt/Vol	wt/Vol units	MRL	Units
Methylene chloride	ND	ppbv	ND	ug/m3	0.60	ppbv
Naphthalene	ND	ppbv	ND	ug/m3	1.00	ppbv
n-Butylbenzene	ND	ppbv	ND	ug/m3	0.10	ppbv
n-Heptane	ND	ppbv	ND	ug/m3	0.10	ppbv
n-Hexane	ND	ppbv	ND	ug/m3	0.10	ppbv
n-Propylbenzene	ND	ppbv	ND	ug/m3	0.10	ppbv
o-Xylene	ND	ppbv	ND	ug/m3	0.10	ppbv
p- & m- Xylenes	ND	ppbv	ND	ug/m3	0.20	ppbv
p-Ethyltoluene	ND	ppbv	ND	ug/m3	0.10	ppbv
p-Isopropyltoluene	ND	ppbv	ND	ug/m3	0.10	ppbv
Propylene	ND	ppbv	ND	ug/m3	0.10	ppbv
sec-Butylbenzene	ND	ppbv	ND	ug/m3	0.10	ppbv
Styrene	ND	ppbv	ND	ug/m3	0.10	ppbv
tert-Butylbenzene	ND	ppbv	ND	ug/m3	0.10	ppbv
Tetrachloroethylene	ND	ppbv	ND	ug/m3	0.10	ppbv
Tetrahydrofuran	ND	ppbv	ND	ug/m3	0.20	ppbv
Toluene	ND	ppbv	ND	ug/m3	0.10	ppbv
trans-1,2-Dichloroethylene	ND	ppbv	ND	ug/m3	0.10	ppbv
trans-1,3-Dichloropropylene	ND	ppbv	ND	ug/m3	0.10	ppbv
Trichloroethylene	ND	ppbv	ND	ug/m3	0.03	ppbv
Trichlorofluoromethane (Freon 11)	ND	ppbv	ND	ug/m3	0.10	ppbv
Vinyl acetate	ND	ppbv	ND	ug/m3	0.10	ppbv
Vinyl bromide	ND	ppbv	ND	ug/m3	0.10	ppbv
Vinyl Chloride	ND	ppbv	ND	ug/m3	0.05	ppbv
Xylenes, Total	ND	ppbv	ND	ug/m3	0.30	ppbv

Data Path : C:\MassHunter\GCMS\1\data\2025\12-DEC\121125\
Data File : TV034103.D
Acq On : 11 Dec 2025 07:49 pm
Operator : YR
Sample : BK51207-BLKI
Misc : QBTO3091525A 1X QBS 13700
ALS Vial : 12 Sample Multiplier: 1
InstName : TO15_AIR3

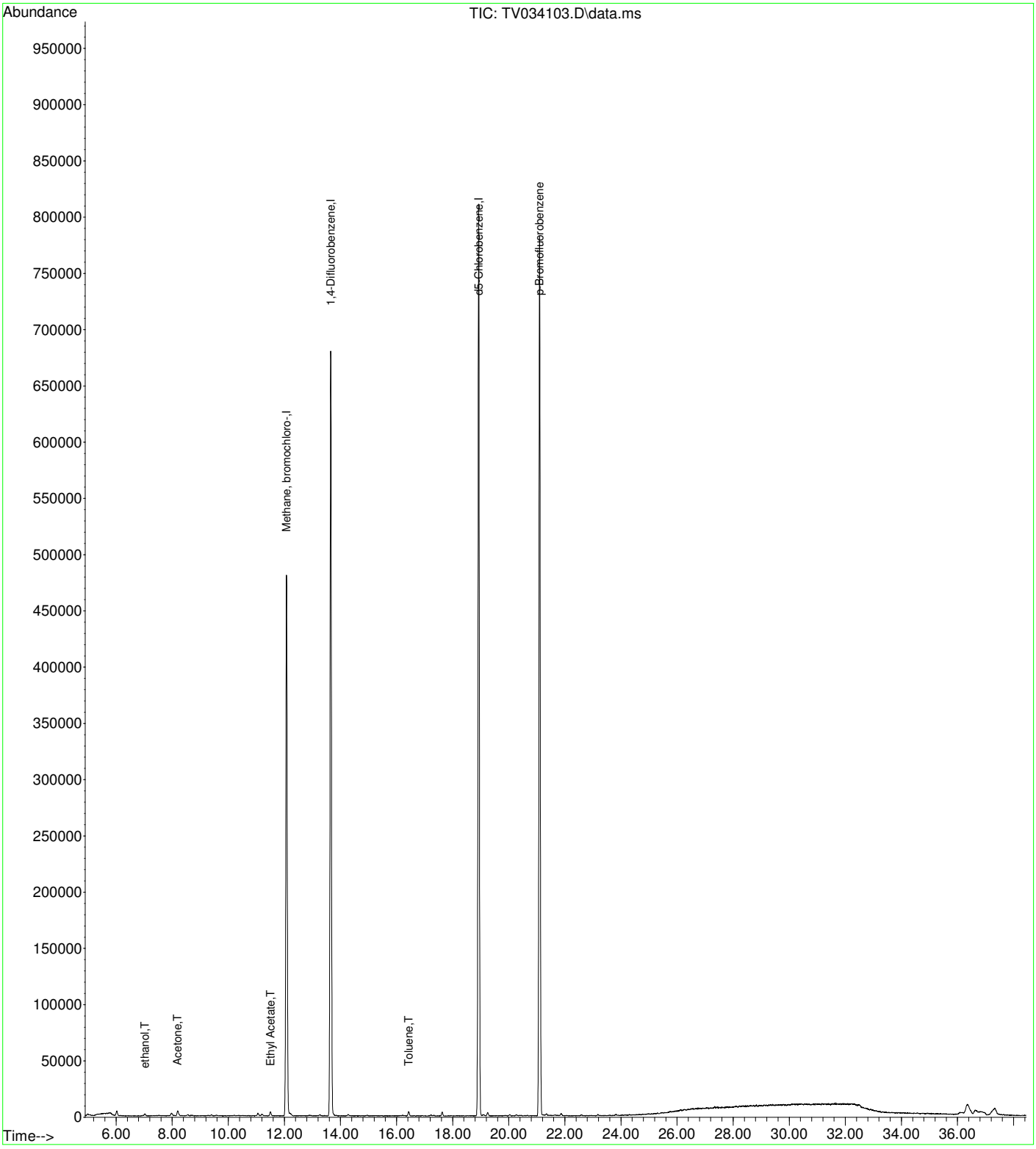
Quant Time: Dec 12 08:30:48 2025
Quant Method : C:\MassHunter\GCMS\1\methods\AIR-3-DEC052025.M
Quant Title : TO15 VOC Analysis
QLast Update : Mon Dec 08 14:43:00 2025
Response via : Initial Calibration

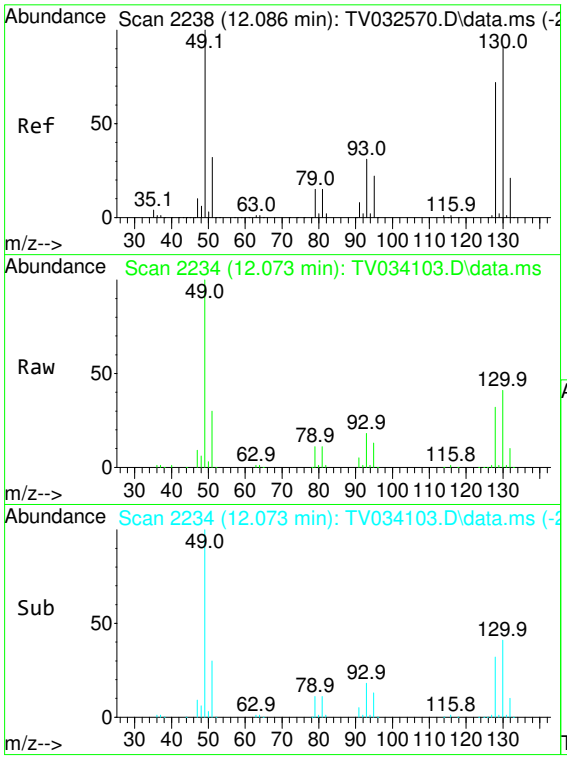
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Methane, bromochloro-	12.073	49	531275	10.00	ppbv	#-0.04
39) 1,4-Difluorobenzene	13.652	114	818021	10.00	ppbv	-0.04
55) d5-Chlorobenzene	18.925	117	715742	10.00	ppbv	#-0.04
Target Compounds						Qvalue
10) ethanol	7.025	45	3388	0.18	ppbv	# 81
15) Acetone	8.189	43	9980	0.17	ppbv	82
28) Ethyl Acetate	11.507	43	7910	0.09	ppbv	# 86
47) Toluene	16.427	91	4915	0.05	ppbv	97
66) p-Bromofluorobenzene	21.095	95	463726	8.82	ppbv	91

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

Data Path : C:\MassHunter\GCMS\1\data\2025\12-DEC\121125\
Data File : TV034103.D
Acq On : 11 Dec 2025 07:49 pm
Operator : YR
Sample : BK51207-BLKI
Misc : QBTO3091525A 1X QBS 13700
ALS Vial : 12 Sample Multiplier: 1
InstName : TO15_AIR3

Quant Time: Dec 12 08:30:48 2025
Quant Method : C:\MassHunter\GCMS\1\methods\AIR-3-DEC052025.M
Quant Title : TO15 VOC Analysis
QLast Update : Mon Dec 08 14:43:00 2025
Response via : Initial Calibration

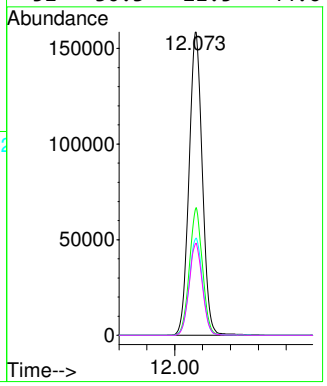


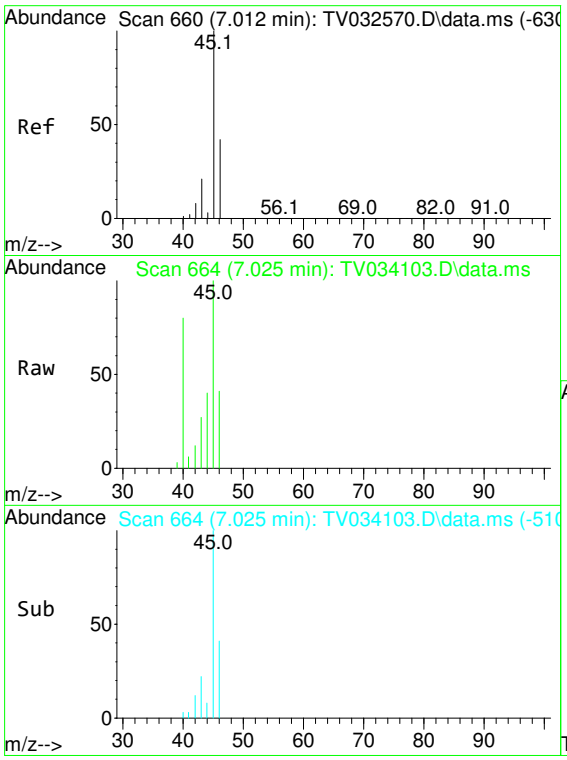


#1
Methane, bromochloro-
Concen: 10.00 ppbv
RT: 12.073 min Scan# 2234
Delta R.T. -0.038 min
Lab File: TV034103.D
Acq: 11 Dec 2025 07:49 pm

Tgt Ion: 49 Resp: 531275

Ion	Ratio	Lower	Upper
49	100		
130	41.0	44.5	92.3#
128	32.1	34.7	72.1#
51	30.3	21.5	44.6

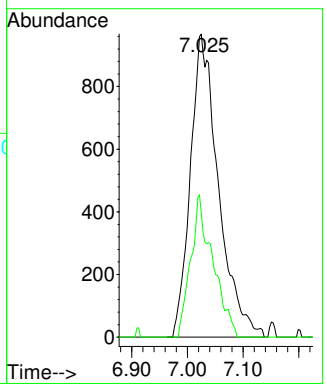


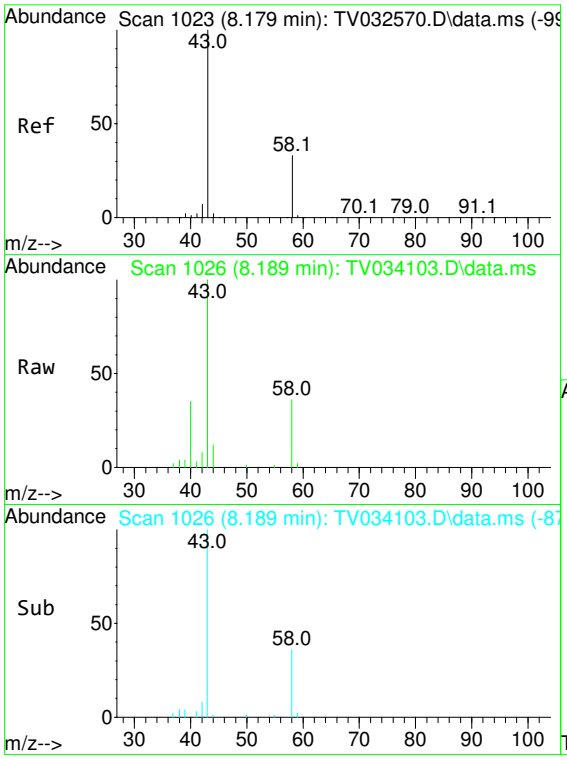


#10
ethanol
Concen: 0.18 ppbv
RT: 7.025 min Scan# 664
Delta R.T. -0.006 min
Lab File: TV034103.D
Acq: 11 Dec 2025 07:49 pm

Tgt Ion: 45 Resp: 3388

Ion	Ratio	Lower	Upper
45	100		
46	37.1	40.0	60.0#

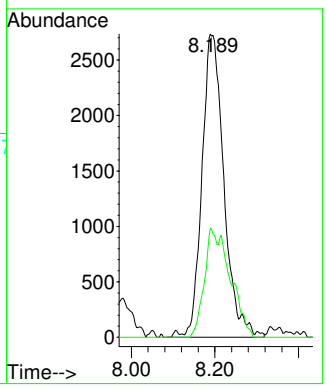


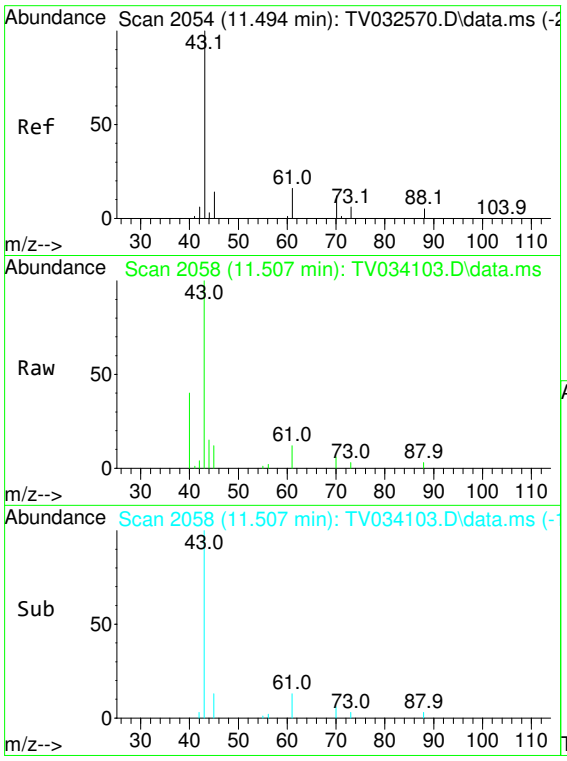


#15
Acetone
Concen: 0.17 ppbv
RT: 8.189 min Scan# 1026
Delta R.T. -0.012 min
Lab File: TV034103.D
Acq: 11 Dec 2025 07:49 pm

Tgt Ion: 43 Resp: 9980

Ion	Ratio	Lower	Upper
43	100		
58	42.0	20.7	42.9

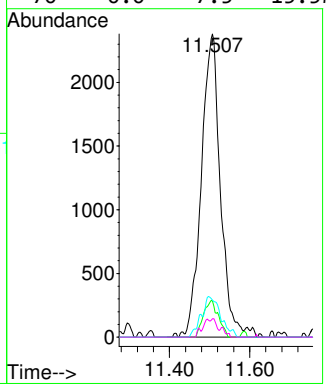


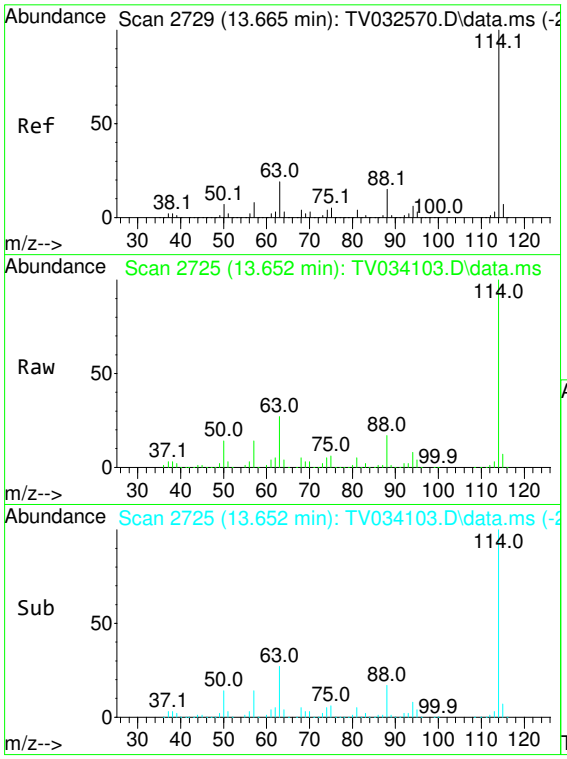


#28
Ethyl Acetate
Concen: 0.09 ppbv
RT: 11.507 min Scan# 2058
Delta R.T. -0.012 min
Lab File: TV034103.D
Acq: 11 Dec 2025 07:49 pm

Tgt Ion: 43 Resp: 7910

Ion	Ratio	Lower	Upper
43	100		
61	9.4	9.2	19.2
45	13.5	9.4	19.6
70	0.0	7.5	15.5#

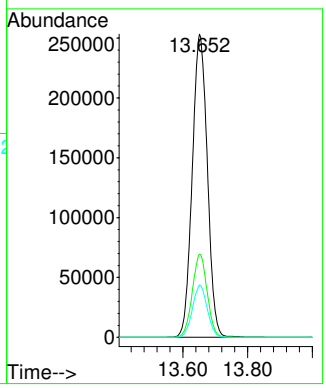


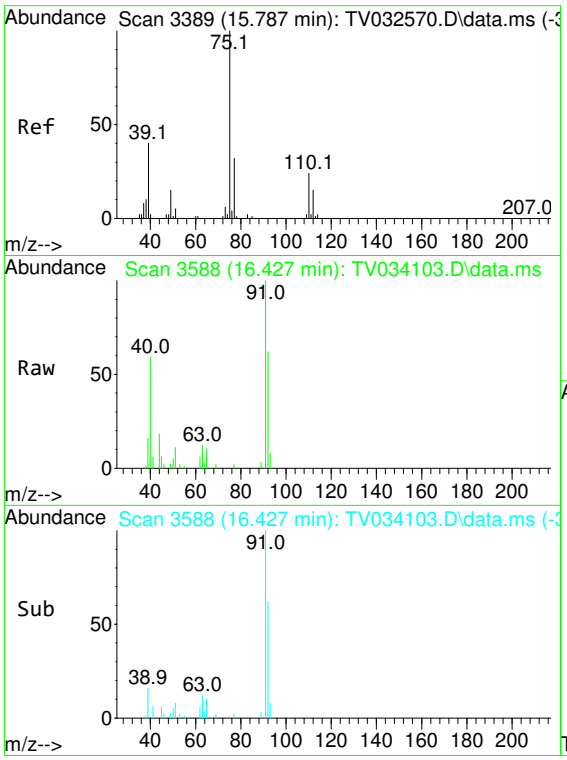


#39
1,4-Difluorobenzene
Concen: 10.00 ppbv
RT: 13.652 min Scan# 2725
Delta R.T. -0.037 min
Lab File: TV034103.D
Acq: 11 Dec 2025 07:49 pm

Tgt Ion:114 Resp: 818021

Ion	Ratio	Lower	Upper
114	100		
63	27.1	14.0	29.2
88	17.0	11.2	23.2

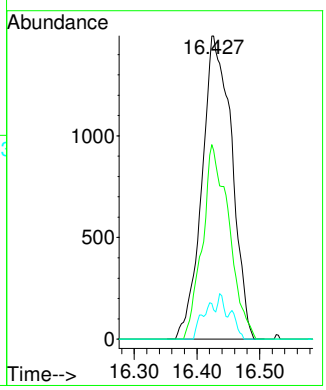


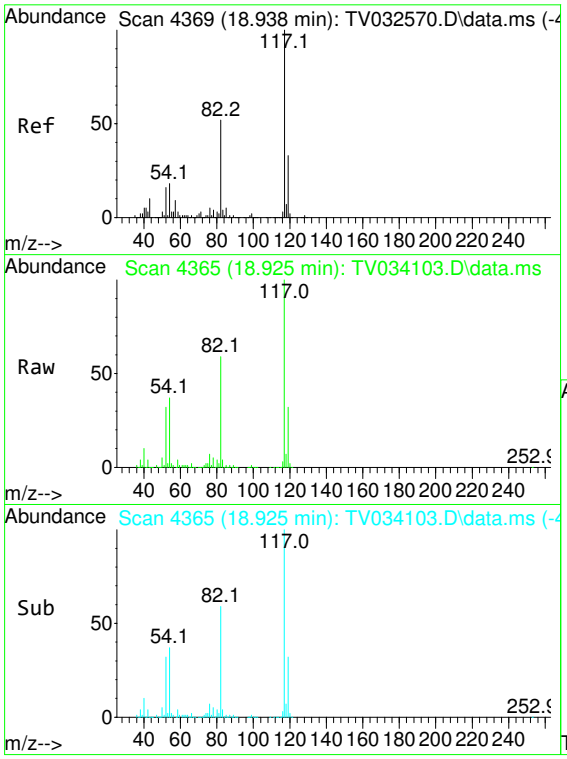


#47
Toluene
Concen: 0.05 ppbv
RT: 16.427 min Scan# 3588
Delta R.T. -0.041 min
Lab File: TV034103.D
Acq: 11 Dec 2025 07:49 pm

Tgt Ion: 91 Resp: 4915

Ion	Ratio	Lower	Upper
91	100		
92	57.4	39.0	81.0
65	11.6	7.7	16.1

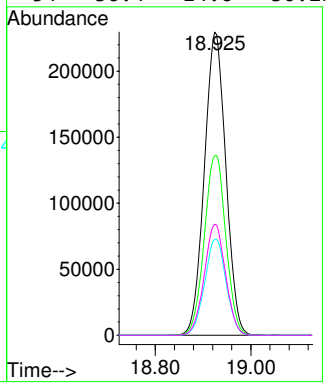


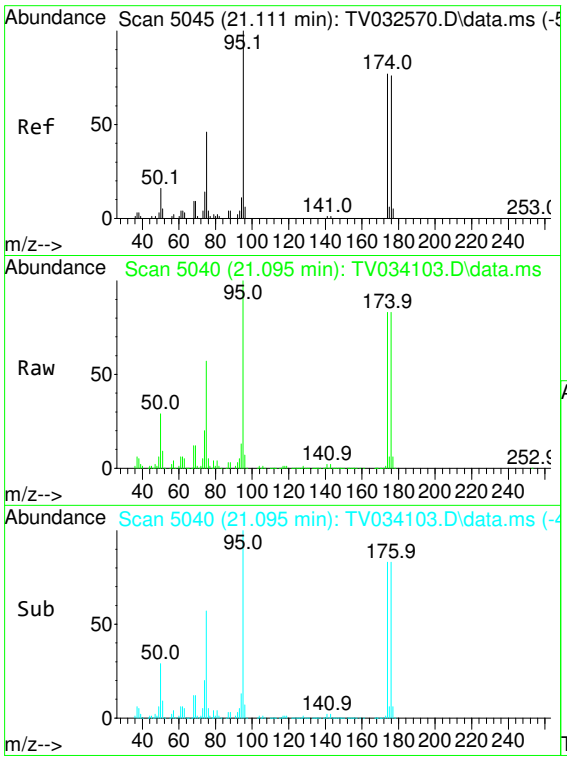


#55
d5-Chlorobenzene
Concen: 10.00 ppbv
RT: 18.925 min Scan# 4365
Delta R.T. -0.037 min
Lab File: TV034103.D
Acq: 11 Dec 2025 07:49 pm

Tgt Ion:117 Resp: 715742

Ion	Ratio	Lower	Upper
117	100		
82	59.6	38.7	80.5
119	31.9	20.3	42.3
54	36.4	14.6	30.2#

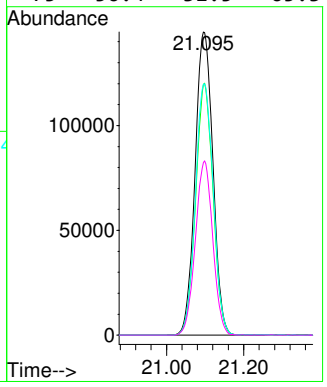




#66
p-Bromofluorobenzene
Concen: 8.82 ppbv
RT: 21.095 min Scan# 5040
Delta R.T. -0.040 min
Lab File: TV034103.D
Acq: 11 Dec 2025 07:49 pm

Tgt Ion: 95 Resp: 463726

Ion	Ratio	Lower	Upper
95	100		
174	81.1	50.0	103.8
176	83.3	48.2	100.2
75	56.4	31.5	65.3



Air Laboratory QBS Report

Canister Order No.(s): 12149

Cert Batch No.: 13701
Lims Batch ID: BK51207
Instrument: TO15_AIR3
File Id: BK51207-BLKJ
Analysis: EPA TO-15

Can Serial No.: 50277
Analyst: YR
Analysis Date: 12/11/25 20:35
File Id: TV034104.D

Analyte	Result	Units	Result wt/Vol	wt/Vol units	MRL	Units
1,1,1,2-Tetrachloroethane	ND	ppbv	ND	ug/m3	0.10	ppbv
1,1,1-Trichloroethane	ND	ppbv	ND	ug/m3	0.10	ppbv
1,1,2,2-Tetrachloroethane	ND	ppbv	ND	ug/m3	0.10	ppbv
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	ppbv	ND	ug/m3	0.10	ppbv
1,1,2-Trichloroethane	ND	ppbv	ND	ug/m3	0.10	ppbv
1,1-Dichloroethane	ND	ppbv	ND	ug/m3	0.10	ppbv
1,1-Dichloroethylene	ND	ppbv	ND	ug/m3	0.05	ppbv
1,2,4-Trichlorobenzene	ND	ppbv	ND	ug/m3	5.00	ppbv
1,2,4-Trimethylbenzene	ND	ppbv	ND	ug/m3	0.10	ppbv
1,2-Dibromoethane	ND	ppbv	ND	ug/m3	0.10	ppbv
1,2-Dichlorobenzene	ND	ppbv	ND	ug/m3	0.10	ppbv
1,2-Dichloroethane	ND	ppbv	ND	ug/m3	0.10	ppbv
1,2-Dichloropropane	ND	ppbv	ND	ug/m3	0.10	ppbv
1,2-Dichlorotetrafluoroethane	ND	ppbv	ND	ug/m3	0.10	ppbv
1,3,5-Trimethylbenzene	ND	ppbv	ND	ug/m3	0.10	ppbv
1,3-Butadiene	ND	ppbv	ND	ug/m3	0.30	ppbv
1,3-Dichlorobenzene	ND	ppbv	ND	ug/m3	0.10	ppbv
1,3-Dichloropropane	ND	ppbv	ND	ug/m3	0.10	ppbv
1,4-Dichlorobenzene	ND	ppbv	ND	ug/m3	0.10	ppbv
1,4-Dioxane	ND	ppbv	ND	ug/m3	0.50	ppbv
2,2,4-Trimethylpentane	ND	ppbv	ND	ug/m3	0.05	ppbv
2-Butanone	ND	ppbv	ND	ug/m3	5.00	ppbv
2-Hexanone	ND	ppbv	ND	ug/m3	0.20	ppbv
3-Chloropropene	ND	ppbv	ND	ug/m3	0.50	ppbv
4-Methyl-2-pentanone	ND	ppbv	ND	ug/m3	0.10	ppbv
Acetone	ND	ppbv	ND	ug/m3	5.00	ppbv
Acrolein	ND	ppbv	ND	ug/m3	0.10	ppbv
Acrylonitrile	ND	ppbv	ND	ug/m3	5.00	ppbv
Benzene	ND	ppbv	ND	ug/m3	0.10	ppbv
Benzyl chloride	ND	ppbv	ND	ug/m3	2.50	ppbv
Bromodichloromethane	ND	ppbv	ND	ug/m3	0.10	ppbv
Bromoform	ND	ppbv	ND	ug/m3	0.10	ppbv
Bromomethane	ND	ppbv	ND	ug/m3	0.10	ppbv
Carbon disulfide	ND	ppbv	ND	ug/m3	0.10	ppbv
Carbon tetrachloride	ND	ppbv	ND	ug/m3	0.03	ppbv
Chlorobenzene	ND	ppbv	ND	ug/m3	0.10	ppbv
Chloroethane	ND	ppbv	ND	ug/m3	0.10	ppbv
Chloroform	ND	ppbv	ND	ug/m3	0.10	ppbv
Chloromethane	ND	ppbv	ND	ug/m3	0.10	ppbv
cis-1,2-Dichloroethylene	ND	ppbv	ND	ug/m3	0.05	ppbv
cis-1,3-Dichloropropylene	ND	ppbv	ND	ug/m3	0.10	ppbv
Cyclohexane	ND	ppbv	ND	ug/m3	0.10	ppbv
Dibromochloromethane	ND	ppbv	ND	ug/m3	0.10	ppbv
Dichlorodifluoromethane	ND	ppbv	ND	ug/m3	0.10	ppbv
Ethyl acetate	ND	ppbv	ND	ug/m3	5.00	ppbv
Ethyl Benzene	ND	ppbv	ND	ug/m3	0.10	ppbv
Hexachlorobutadiene	ND	ppbv	ND	ug/m3	0.10	ppbv
Isopropanol	ND	ppbv	ND	ug/m3	0.60	ppbv
Isopropylbenzene	ND	ppbv	ND	ug/m3	0.10	ppbv
Methyl Methacrylate	ND	ppbv	ND	ug/m3	0.10	ppbv
Methyl tert-butyl ether (MTBE)	ND	ppbv	ND	ug/m3	0.10	ppbv

Air Laboratory QBS Report

Canister Order No.(s): 12149

Cert Batch No.: 13701
Lims Batch ID: BK51207
Instrument: TO15_AIR3
File Id: BK51207-BLKJ
Analysis: EPA TO-15

Can Serial No.: 50277
Analyst: YR
Analysis Date: 12/11/25 20:35
File Id: TV034104.D

Analyte	Result	Units	Result wt/Vol	wt/Vol units	MRL	Units
Methylene chloride	ND	ppbv	ND	ug/m3	0.60	ppbv
Naphthalene	ND	ppbv	ND	ug/m3	1.00	ppbv
n-Butylbenzene	ND	ppbv	ND	ug/m3	0.10	ppbv
n-Heptane	ND	ppbv	ND	ug/m3	0.10	ppbv
n-Hexane	ND	ppbv	ND	ug/m3	0.10	ppbv
n-Propylbenzene	ND	ppbv	ND	ug/m3	0.10	ppbv
o-Xylene	ND	ppbv	ND	ug/m3	0.10	ppbv
p- & m- Xylenes	ND	ppbv	ND	ug/m3	0.20	ppbv
p-Ethyltoluene	ND	ppbv	ND	ug/m3	0.10	ppbv
p-Isopropyltoluene	ND	ppbv	ND	ug/m3	0.10	ppbv
Propylene	ND	ppbv	ND	ug/m3	0.10	ppbv
sec-Butylbenzene	ND	ppbv	ND	ug/m3	0.10	ppbv
Styrene	ND	ppbv	ND	ug/m3	0.10	ppbv
tert-Butylbenzene	ND	ppbv	ND	ug/m3	0.10	ppbv
Tetrachloroethylene	ND	ppbv	ND	ug/m3	0.10	ppbv
Tetrahydrofuran	ND	ppbv	ND	ug/m3	0.20	ppbv
Toluene	ND	ppbv	ND	ug/m3	0.10	ppbv
trans-1,2-Dichloroethylene	ND	ppbv	ND	ug/m3	0.10	ppbv
trans-1,3-Dichloropropylene	ND	ppbv	ND	ug/m3	0.10	ppbv
Trichloroethylene	ND	ppbv	ND	ug/m3	0.03	ppbv
Trichlorofluoromethane (Freon 11)	ND	ppbv	ND	ug/m3	0.10	ppbv
Vinyl acetate	ND	ppbv	ND	ug/m3	0.10	ppbv
Vinyl bromide	ND	ppbv	ND	ug/m3	0.10	ppbv
Vinyl Chloride	ND	ppbv	ND	ug/m3	0.05	ppbv
Xylenes, Total	ND	ppbv	ND	ug/m3	0.30	ppbv

Data Path : C:\MassHunter\GCMS\1\data\2025\12-DEC\121125\
Data File : TV034104.D
Acq On : 11 Dec 2025 08:35 pm
Operator : YR
Sample : BK51207-BLKJ
Misc : QBTO3091525A 1X QBS 13701
ALS Vial : 12 Sample Multiplier: 1
InstName : TO15_AIR3

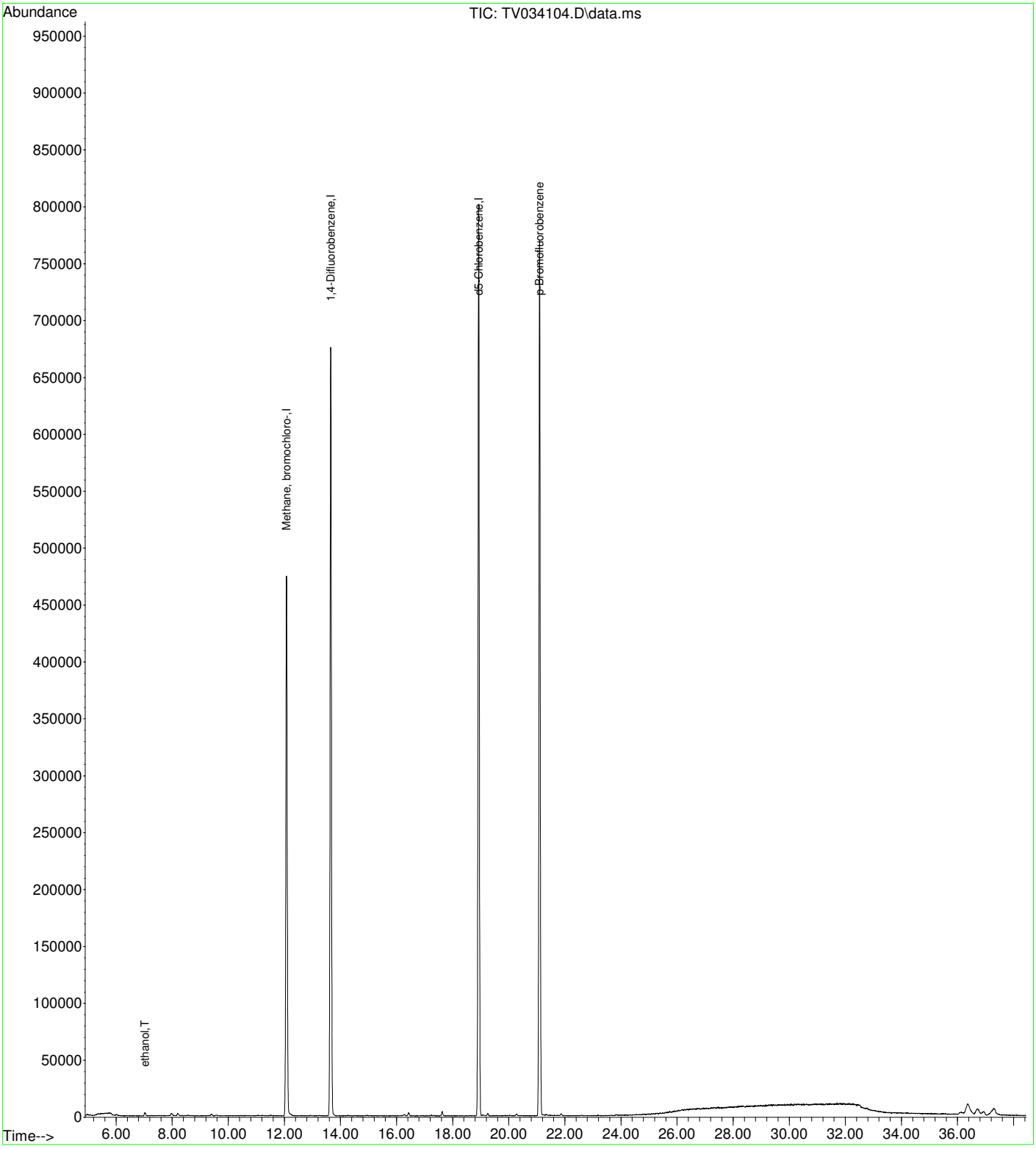
Quant Time: Dec 12 08:30:51 2025
Quant Method : C:\MassHunter\GCMS\1\methods\AIR-3-DEC052025.M
Quant Title : TO15 VOC Analysis
QLast Update : Mon Dec 08 14:43:00 2025
Response via : Initial Calibration

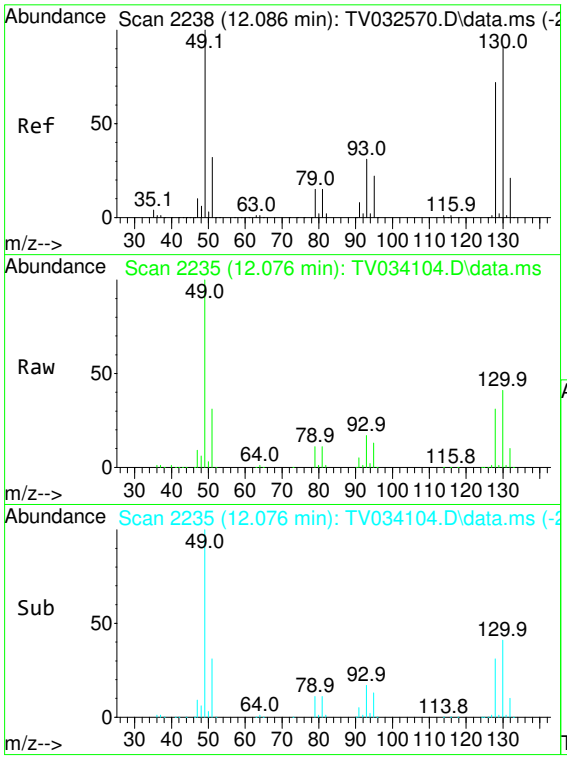
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Methane, bromochloro-	12.076	49	527373	10.00	ppbv	#-0.03
39) 1,4-Difluorobenzene	13.652	114	806036	10.00	ppbv	-0.04
55) d5-Chlorobenzene	18.925	117	703035	10.00	ppbv	#-0.04
Target Compounds						Qvalue
10) ethanol	7.028	45	5876	0.32	ppbv	88
66) p-Bromofluorobenzene	21.095	95	454394	8.80	ppbv	92

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

Data Path : C:\MassHunter\GCMS\1\data\2025\12-DEC\121125\
Data File : TV034104.D
Acq On : 11 Dec 2025 08:35 pm
Operator : YR
Sample : BK51207-BLKJ
Misc : QBTO3091525A 1X QBS 13701
ALS Vial : 12 Sample Multiplier: 1
InstName : TO15_AIR3

Quant Time: Dec 12 08:30:51 2025
Quant Method : C:\MassHunter\GCMS\1\methods\AIR-3-DEC052025.M
Quant Title : TO15 VOC Analysis
QLast Update : Mon Dec 08 14:43:00 2025
Response via : Initial Calibration

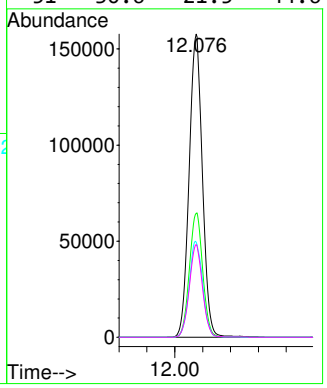


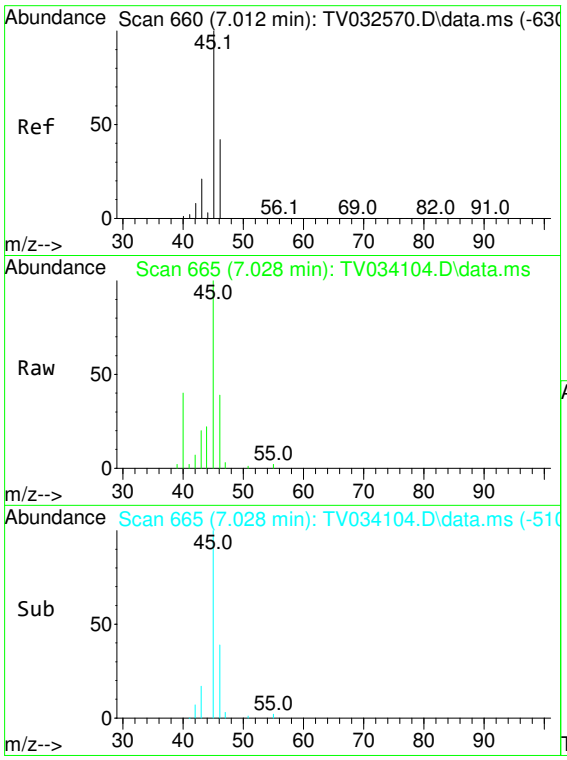


#1
Methane, bromochloro-
Concen: 10.00 ppbv
RT: 12.076 min Scan# 2235
Delta R.T. -0.035 min
Lab File: TV034104.D
Acq: 11 Dec 2025 08:35 pm

Tgt Ion: 49 Resp: 527373

Ion	Ratio	Lower	Upper
49	100		
130	41.2	44.5	92.3#
128	32.2	34.7	72.1#
51	30.6	21.5	44.6

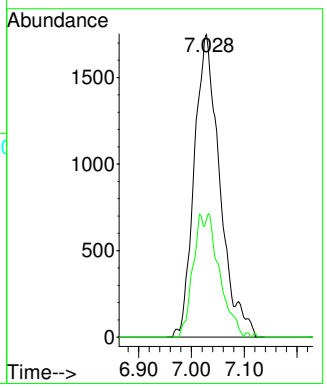


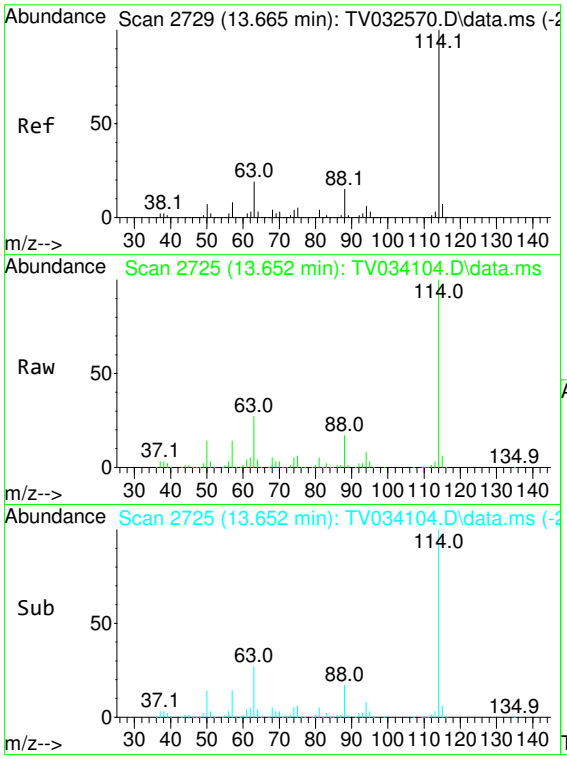


#10
ethanol
Concen: 0.32 ppbv
RT: 7.028 min Scan# 665
Delta R.T. -0.003 min
Lab File: TV034104.D
Acq: 11 Dec 2025 08:35 pm

Tgt Ion: 45 Resp: 5876

Ion	Ratio	Lower	Upper
45	100		
46	41.8	40.0	60.0

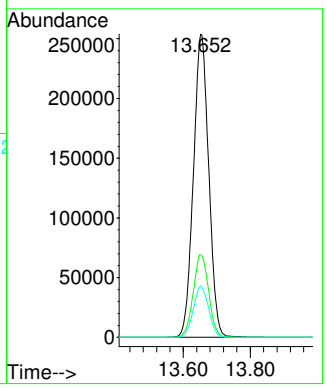


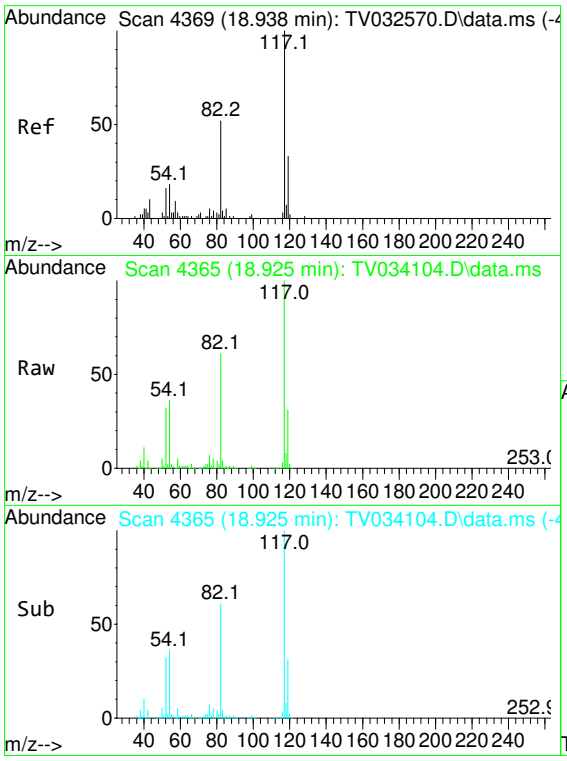


#39
1,4-Difluorobenzene
Concen: 10.00 ppbv
RT: 13.652 min Scan# 2725
Delta R.T. -0.037 min
Lab File: TV034104.D
Acq: 11 Dec 2025 08:35 pm

Tgt Ion:114 Resp: 806036

Ion	Ratio	Lower	Upper
114	100		
63	27.5	14.0	29.2
88	17.0	11.2	23.2

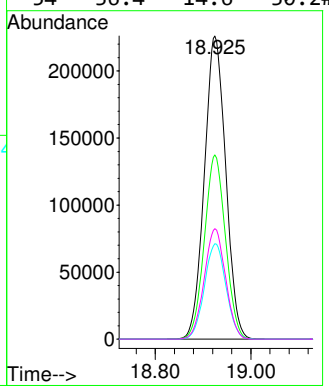


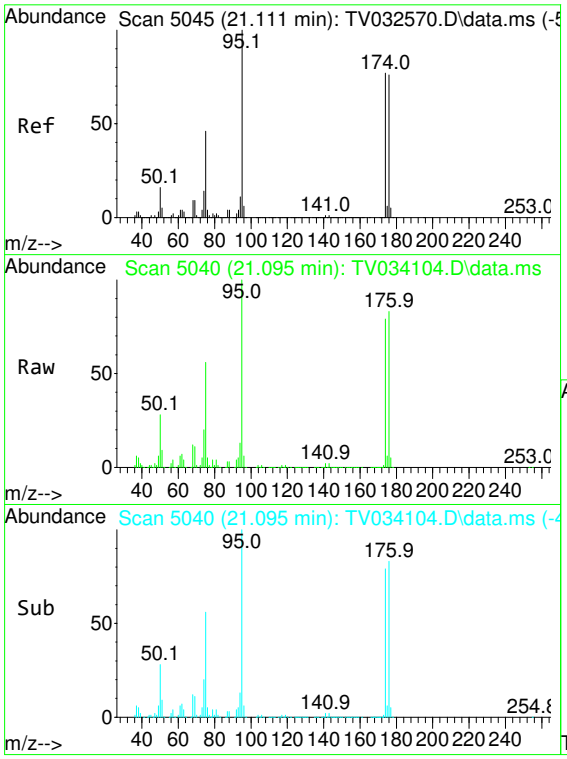


#55
d5-Chlorobenzene
Concen: 10.00 ppbv
RT: 18.925 min Scan# 4365
Delta R.T. -0.037 min
Lab File: TV034104.D
Acq: 11 Dec 2025 08:35 pm

Tgt Ion:117 Resp: 703035

Ion	Ratio	Lower	Upper
117	100		
82	60.0	38.7	80.5
119	31.9	20.3	42.3
54	36.4	14.6	30.2#

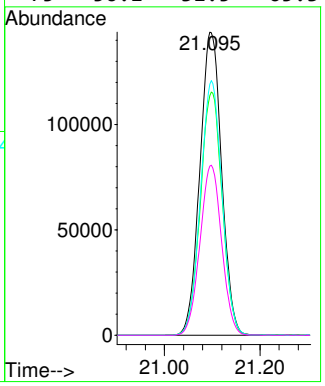




#66
p-Bromofluorobenzene
Concen: 8.80 ppbv
RT: 21.095 min Scan# 5040
Delta R.T. -0.040 min
Lab File: TV034104.D
Acq: 11 Dec 2025 08:35 pm

Tgt Ion: 95 Resp: 454394

Ion	Ratio	Lower	Upper
95	100		
174	80.7	50.0	103.8
176	83.3	48.2	100.2
75	56.1	31.5	65.3



ATTACHMENT F

NYSDOH IAQ QUESTIONNAIRE AND PRODUCT 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 Lilah Willis Date/Time Prepared 19 December 2025

Preparer's Affiliation Langan Engineering Phone No. 212-479-5400

Purpose of Investigation Annual Site Inspection & Indoor Air Monitoring

1. OCCUPANT:

Interviewed: (Y) / N

Last Name: Fordham Auto Plus First Name: _____

Address: 2409 Jerome Avenue, Bronx, NY 11101

County: Bronx

Home Phone: 718-365-2492 Office Phone: _____

Number of Occupants/persons at this location _____ Age of Occupants _____

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

Interviewed: Y / (N)

Last Name: _____ First Name: _____

Address: _____

County: _____

Home Phone: _____ Office Phone: _____

3. BUILDING CHARACTERISTICS

Type of Building: (Circle appropriate response)

Residential	School	(Commercial/Multi-use)
Industrial	Church	Other: _____

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

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

If multiple units, how many? N/A

If the property is commercial, type?

Business Type(s) Auto repair shop

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

Other characteristics:

Number of floors 1 Building age About 79

Is the building insulated? Y / (N) How air tight? Tight / Average / (Not Tight)

4. AIRFLOW

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

Airflow between floors

N/A

Airflow near source

Two garage doors were opened periodically during the sample event to relocate cars from the shop. One hinged door leading outside was used when all garage doors were shut.

Outdoor air infiltration

Non air-tight garage doors

Infiltration into air ducts

One ceiling air duct with fan (closed and fan not in operation during sample event)

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

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

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

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

Active drains/ pits/manholes in the slab tied to building operations.

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	
garage	(Space Heaters)	Stream radiation	Radiant floor	
office space	(Electric baseboard)	Wood stove	Outdoor wood boiler	Other _____

The primary type of fuel used is:

Natural Gas	Fuel Oil	Kerosene
(Electric)	Propane	Solar
Wood	Coal	

Domestic hot water tank fueled by: natural gas

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

Air conditioning: Central Air (Window units) office space Open Windows (None) garage

Are there air distribution ducts present? Y / (N)

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

_____

_____

_____

_____

7. OCCUPANCY

Is basement/lowest level occupied? Full-time Occasionally Seldom Almost Never

Level	**General Use of Each Floor (e.g., familyroom, bedroom, laundry, workshop, storage)**
Basement	N/A
1st Floor	Auto Repair Shop
2nd Floor	
3rd Floor	
4th Floor	

8. FACTORS THAT MAY INFLUENCE INDOOR AIR QUALITY

a. Is there an attached garage? (Y) / N

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

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

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? Auto Repair Shop

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

h. Have cleaning products been used recently? (Y) / N When & Type? Car/car engine cleaner/degreaser

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

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

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

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

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

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

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: Auto repair cleaners/chemicals/petroleum based products

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? See product inventory

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

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

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

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

9. WATER AND SEWAGE

Water Supply: (Public Water) Drilled Well Driven Well Dug Well Other: _____

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

10. RELOCATION INFORMATION (for oil spill residential emergency) Not Applicable

a. Provide reasons why relocation is recommended: _____

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

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

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

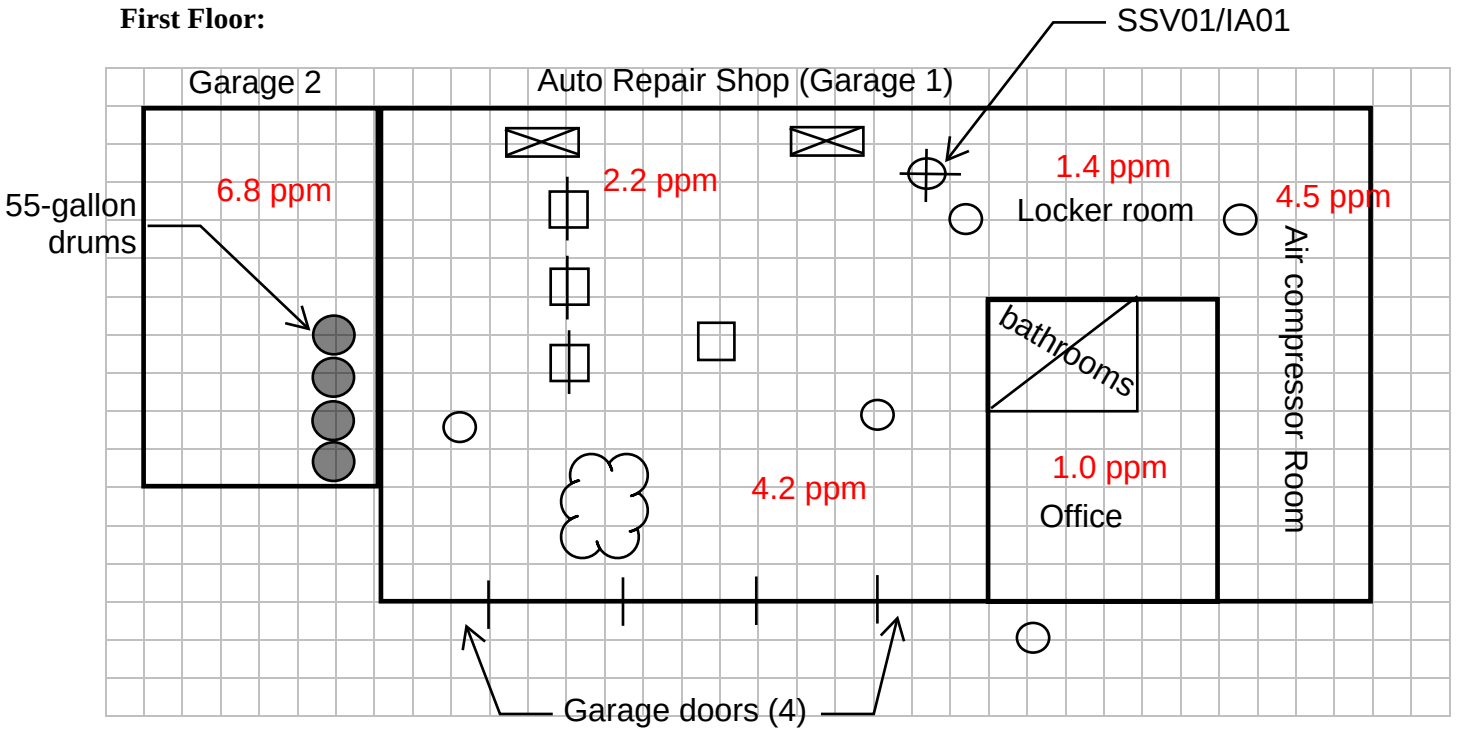
11. FLOOR PLANS

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

Basement:

NA

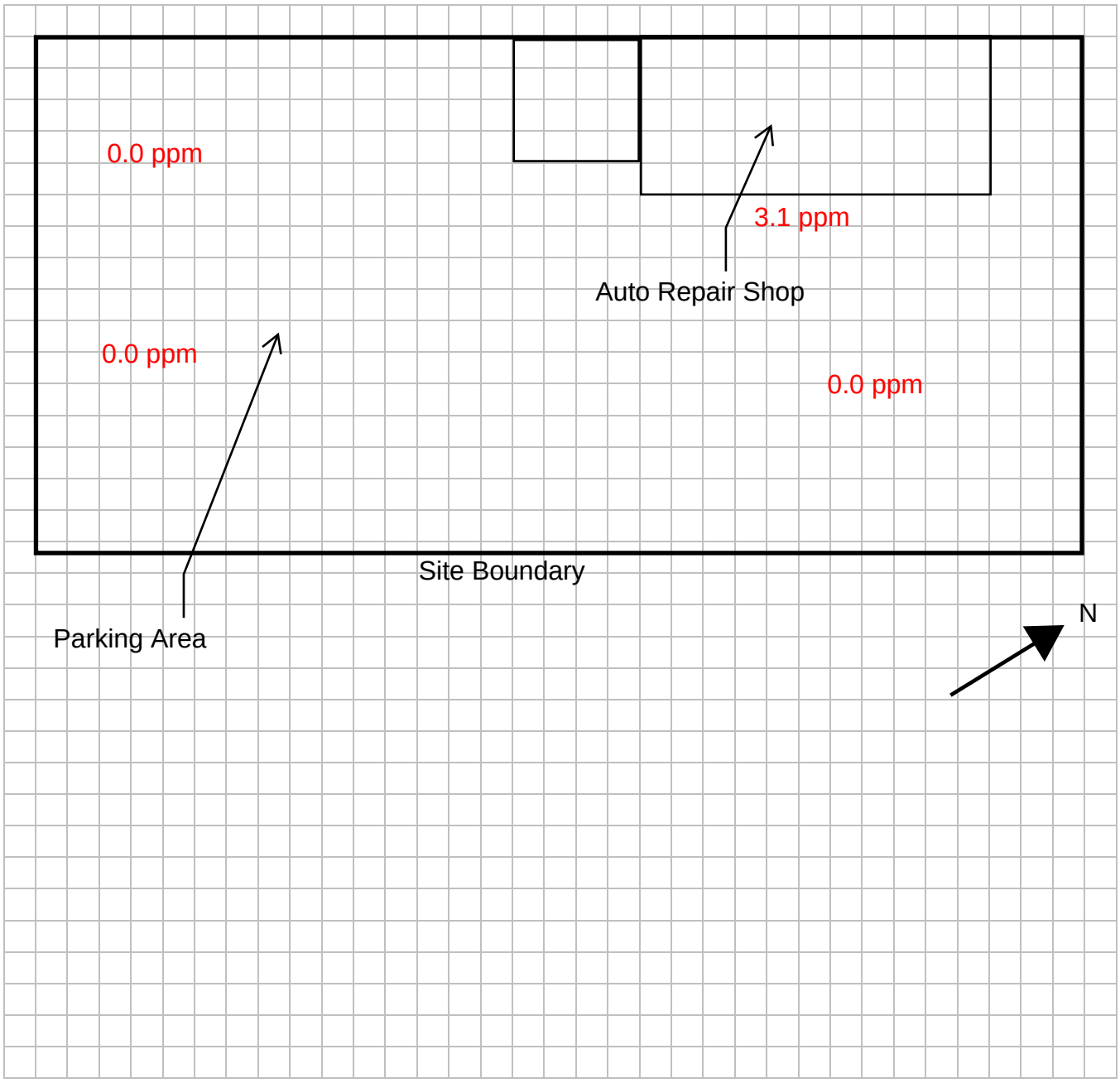
First Floor:



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.



Indoor Air Quality Investigation
Pre-Inspection Product Inventory

Site Name: 2409 Jerome Ave
Site Location: New York, NY
Field instrument used: MultiRae + MiniRAE

Langan Project No.: 170600302
Date: 12/19/2025
Background PID Reading: 0.0

Location	Product Description x Item Count	Size (units)	Condition*	Chemical Ingredients	Field Instrument Reading (ppm)
SSV01 (Auto Repair Garage)	Johnsens non chlorinated brake and parts cleaner x6	14oz	U	Acetone, methanol, toluene, carbon dioxide, heptane	0.3ppm
	SUBARU Synthetic motor oil SAE 5W-30	32 Oz	UO	Highly refined mineral oil or synthetic hydrocarbons, synthetic esters, calcium sulfonate detergent, zinc dialkyldithiophosphate (ZDDP), molybdenum friction modifier, phenolic antioxidant, aminic antioxidant, polymeric viscosity index improver.	0.2 ppm
	Genuine Chemistry Super Extended Life Antifreeze/Coolant Concentrate x4	1 gal	UO	Water, ethylene glycol, proprietary inhibitors and denatonium Benzoate	0.6 ppm
	Idemitsu PSF	12 Oz	U		20ppm
	Solvent 142-66 drum		U	Various drainage liquids from sink	10 ppm
	Red Line synthetic oil D6 ATF x5	1 Gal	UO	Polyalphaolefin synthetic base oils, ester-based synthetic oils, friction modifiers, anti-wear additives, detergents, dispersants, oxidation inhibitors, viscosity index improvers.	0.7ppm
	Fire extinguisher (Alert fire control) x6		UO	Monoammonium phosphate, ammonium sulfate (for dry chemical type), compressed carbon dioxide (for CO_2 type), water, aqueous film-forming foam (AFFF) concentrate (for foam type)	0.4 ppm
	LuquiMoly SAE 5W-30 special Tec Motor Oil x8	5L	UO	Synthetic base oils, calcium or magnesium sulfonate detergents, succinimide dispersants, zinc dialkyldithiophosphate (ZDDP) anti-wear agents, molybdenum friction modifiers, phenolic and aminic antioxidants, corrosion inhibitors, polymeric viscosity index improvers.	0.2 ppm
	Zep industrial purple degreaser x2	125 gal	UO/U	surfactants, 2-butoxyethanol, sodium hydroxide	0.2 ppm
	Ford motorcraft yellow prediluted antifreeze/coolant x4	1 gal	UO/U	Water, ethylene glycol, 2,2'-oxydiethanol, sodium 2-ethylhexanoate, sodium neodecanoate	1.3 ppm
	Universal Cooling System Cleaner PN540	12 Oz	U	Water, Citric Acid, Tetrasodium EDTA, Sodium 4/5-methyl-1H-benzotriazolide, Sodium Hydroxide preparation, Oxirane polymer.	0.1
	Universal Super Cool PN 456	12 Oz	UO	Sodium nitrite, 2-ethylhexanoic acid, potassium hydroxide, disodium metasilicate, disodium molybdate 1	0.3
	Motyl Gear Transmission Fluid	1L	U	Hydrotreated neutral base oil (lubricating oils, petroleum C20–50), hydrogenated polyalphaolefin (dec-1-ene trimers), hydrotreated heavy paraffinic distillates 23	0.4
	Sievert MAPP Gas x3	14.1 Oz	U	Propene (propylene), propane (trace) 456	0
	Toyita SAW OW-16 Synthetic Motor Oil	946 mL	UO	C18–C50 hydrocarbons (base oil), zinc dialkyldithiophosphate (ZDDP), calcium alkyl salicylate detergent 7	0.2
	Blue Monster Blue PVC Cement	0.5 pints	U	Tetrahydrofuran (THF), methyl ethyl ketone (MEK), cyclohexanone, acetone, poly(vinyl chloride) resin 89	1
	Tom Cat Rodent Repellent	1 gal	U	Sodium lauryl sulfate, peppermint oil, cinnamon oil, garlic oil <a href="https://scottsmiraclegro.com/en-us/brands/tomcat/products/mouse-and-rodent-control/0368208.html" unfurl="false" data-loop-citation-index="true" title="Tomcat® Repellents Rodent Repellent Ready-to-Use	0.7
	Prime Guard Wheel Bearing Hi-Temp Red Grease	64 Oz	U	Hydrotreated heavy naphthenic distillates, hydrotreated heavy paraffinic distillates, solvent-dewaxed residual oils, lithium 12-hydroxystearate/sebacate complexes 10	1.5
	Kendall L-427 Super Blue Lithium Complex	84 Oz	U	Solvent-dewaxed heavy paraffinic distillates, hydrotreated heavy naphthenic distillates, zinc dialkyldithiophosphate, di-tert-butyl polysulfides 1112	0.8
	Lucas Power Steering Fluid	946 mL	U	Hydrotreated heavy paraffinic distillates, tricresyl phosphate (trace), 2,6-di-tert-butylphenol (antioxidant), mineral base oils 1314	0
	Permatex Electric Contact and Parts Cleaner x2	11 Oz	U	Heptane, 1,1-difluoroethane (HFC-152a) propellant, naphtha (petroleum), hydrotreated light, methylcyclohexane 1516	2
	Dupli Color Engine Enamel with Ceramic	11 Oz	U	Methyl acetate, propane, butane, aromatic solvents (e.g., toluene/xylene) 1718	0
	WD-40 x4	8 Oz	U	Hydrocarbons (C9–C11 aliphatic), petroleum/mineral base oil, carbon dioxide propellant 1920	0.5
	Star Brite Liquid Electrical Tape	4 Oz	U	Acetone, methyl ethyl ketone, xylene, rubber/resin solids 2122	0.5
	Tite Seal Auto Body Undercoating	16 Oz	U	Calcium carbonate, asphalt, stoddard solvent (aliphatic hydrocarbon solvent), liquefied petroleum gas (propellant) 2324	0.5
	Inject R-Kleen	16 Oz	U	Xylene, polymer/amine/solvent blend (additive package) 2526	0.5
	Super Tech Belt Dressing	7 Oz	U	Hexane isomers (including n-hexane), liquefied petroleum gas (propellant), polyisobutene 2728	2.1
Locker Room/Air Compressor Room	Ford motorcraft yellow prediluted antifreeze/coolant x 21	1 gal	UO/U	Water, ethylene glycol, 2,2'-oxydiethanol, sodium 2-ethylhexanoate, sodium neodecanoate	4.1
	Heavy duty rubberized undercoating	16 oz	U	tert-Butyl acetate, Toluene , Limestone , Solvent naphtha (petroleum), heavy aliphatic, quartz	2.6

* Describes the condition of the product containers as Unopened (UO), Used (U), or Deteriorated (D).

ATTACHMENT G

FOIL REQUESTS AND ACKNOWLEDGEMENT LETTERS

LANGAN

Technical Excellence
Practical Experience
Client Responsiveness

January 14, 2024

Records Access Office
New York State Department of Health
Corning Tower, Room 2364
Albany, New York 12237-0044
foil@health.ny.gov

Re: Freedom of Information Request
2409 Jerome Avenue
Block 3199, Lots 106 and 113
Bronx, New York
Langan Project No. 170390601

Dear Sir or Madam:

Pursuant to the Federal Freedom of Information Act (5 U.S.C 552 et seq.) dealing with the examination and duplication of documents maintained by public agencies, Langan is requesting copies of any water well and water extraction-withdrawal permits for the properties located at 2409 Jerome Avenue, Bronx, NY (Block 3199, Lots 106 and 113) issued in the 2025 calendar year.

The Subject Property is located at 2409 Jerome Avenue in the Bronx, NY. The Subject Property is identified as Tax Block 3199, Lots 106 and 113 on the NYC Bronx Borough Tax Map.

Please contact me at 914 374 2335 with any questions or send your response to my attention at lwillis@langan.com or at the below address:

Langan Engineering and Environmental Services, D.P.C.
368 Ninth Avenue, 8th floor
New York, New York 10001-2727

Thank you in advance for your cooperation.

Sincerely,

Langan Engineering, Environmental, Surveying
Landscape Architecture, and Geology, D.P.C.

Lilah Willis

Lilah Willis
Staff Scientist

Kristen Wexler

From: NYS DOH FOIL Records Access Center <healthny@govqa.us>
Sent: Tuesday, February 17, 2026 11:57 AM
To: Kristen Wexler
Subject: New Message :: R000455-013026

Follow Up Flag: Follow up
Flag Status: Completed

--- Please respond above this line ---

RE: FOIL Records Request of January 30, 2026, Reference # R000455-013026

Dear Kristen Wexler,

The NYS Department of Health received a FOIL request from you on January 30, 2026. You requested:

**"Pursuant to the Federal Freedom of Information Act (5 U.S.C 552 et seq.) dealing with the examination
and duplication of documents maintained by public agencies, Langan is requesting copies of any water
well and water extraction-withdrawal permits for the properties located at 2409 Jerome Avenue, Bronx,
NY (Block 3199, Lots 106 and 113) issued in the 2025 calendar year.**

**The Subject Property is located at 2409 Jerome Avenue in the Bronx, NY. The Subject Property is identified
as Tax Block 3199, Lots 106 and 113 on the NYC Bronx Borough Tax Map."**

Please be advised that after conducting a diligent search, no records responsive to your request have been located.

Please note, this address is served by the New York City public water system (NY7003493). Any violation reports for the public water system can be found at the following website: www.health.ny.gov/environmental/water/drinking/violations/previous_compliance_reports.htm

Should you feel that you have been unlawfully denied access to records, you may submit an appeal online within 30 days.

If you require additional information, you may respond directly to this e-mail.

Sincerely,

David J. Harvey, Records Access Officer
NYS Department of Health

To monitor the progress or update this request please log into the FOIL Records Access Center.

NEW YORK CITY DEPARTMENT OF HEALTH AND MENTAL HYGIENE

For office use only
CONTROL NUMBER:

FREEDOM OF INFORMATION LAW REQUEST FORM

To: Records Access Officer
NYC Department of Health and Mental Hygiene
42-09 28th Street, 14th Floor, CN 31
Long Island City, NY 11101
Phone: (347) 396-6078/6116
Fax: (347) 396-6087
recordsaccess@health.nyc.gov

Date 01 / 14 / 26

Dear Record Access Officer:

I, Lilah Willis request copies of any inspection reports and/or records located in the Bureau of Bronx, of the New York City Department of Health and Mental Hygiene.

The records pertain to:

- ☐ Lead Poisoning
- ☐ Animal bite
- ☐ Employment/Human Resources
- ☐ Contracts/RFPs
- ☐ Pest Control
- ☒ Environmental for specific property
- ☐ Early Intervention
- ☐ Food Safety
- ☐ Mental Health
- ☐ Communicable Diseases
- ☐ School Health
- ☐ Day Care
- ☒ Other: Water Wells

Please specify/describe the records you are requesting from the above program(s):

Pursuant to the Federal Freedom of Information Act (5 U.S.C 552 et seq.) dealing with the examination and duplication of documents maintained by public agencies, Langan is requesting copies of any water well and water extraction/withdrawal permits for the property located at 2409 Jerome Avenue, Bronx, NY (Block 3199, Lots 106 & 133) issued in the 2025 Calendar year.

There is a charge of 25¢ per page or actual costs of reproduction, payable in advance.

Requester's Name: Lilah Willis (Please print)

Lilah Willis (Signature)
Digitally signed by Lilah Willis
DN: CN=Lilah Willis, OU=New York, OU=Users, OU=Offices, DC=langan, DC=com
Date: 2026.01.13 15:49:09-05'00'

Requester's Organization: Langan Engineering

Requester's Address: 368 Ninth Avenue, New York, NY 10001
Street City State Zip code

Telephone Number: (212) 479 - 5499

E-mail: lwillis@langan.com

For more information, please visit: http://www1.nyc.gov/site/doh/about/ogc-foil.page

LANGAN

Technical Excellence
Practical Experience
Client Responsiveness

January 14, 2026

New York State Department of Environmental Conservation
Region 2 Office
47-40 21st Street
Long Island City, New York 11101

Re: Freedom of Information Request
2409 Jerome Avenue
Block 3199, Lots 106 and 113
Bronx, New York
Langan Project No. 170390601

Dear Sir or Madam:

Pursuant to the Federal Freedom of Information Act (5 U.S.C 552 et seq.) dealing with the examination and duplication of documents maintained by public agencies, Langan is requesting copies of any water well and water extraction-withdrawal permits for the properties located at 2409 Jerome Avenue, Bronx, NY (Block 3199, Lots 106 and 113) issued in the 2025 calendar year.
The Subject Property is located at **2409 Jerome Avenue** in the **Bronx, NY**. The Subject Property is identified as **Tax Block 3199, Lots 106 and 113** on the NYC Bronx Borough Tax Map.

Please contact me at 914.374.2335 with any questions or send your response to my attention at lwillis@langan.com or at the below address:

Langan Engineering and Environmental Services, D.P.C.
368 Ninth Avenue, 8th floor
New York, New York 10001-2727

Thank you in advance for your cooperation.

Sincerely,

Langan Engineering, Environmental, Surveying
Landscape Architecture, and Geology D.P.C.

Lilah Willis

Lilah Willis
Staff Scientist

Kristen Wexler

From: New York DEC FOIL Center <newyorkdec@govqa.us>
Sent: Monday, February 9, 2026 4:31 PM
To: Kristen Wexler
Subject: Freedom of Information Law Request :: W159755-013026

--- Please respond above this line ---

Region 2 - Long Island City
P: (718) 482-4912 | F:
www.dec.ny.gov

RE: PUBLIC RECORDS REQUEST of 1/30/2026, Reference # W159755-013026

Date: 02/09/2026

Dear Kristen Wexler,

This is in response to your 1/30/2026 Freedom of Information Law (FOIL) request seeking:

> *Pursuant to the Federal Freedom of Information Act (5 U.S.C 552 et seq.) dealing with the examination and duplication of documents maintained by public agencies, Langan is requesting copies of any water well and water extraction-withdrawal permits for the properties located at 2409 Jerome Avenue, Bronx, NY (Block 3199, Lots 106 and 113) issued in the 2025 calendar year.*
> *The Subject Property is located at 2409 Jerome Avenue in the Bronx, NY. The Subject Property is identified as Tax Block 3199, Lots 106 and 113 on the NYC Bronx Borough Tax Map.*

The Department of Environmental Conservation (DEC) has identified records responsive to your request from our Region 2 office and has uploaded those records into DEC's online FOIL request system. Please visit the customer portal for DEC's online system by clicking here to log into your DEC FOIL account, where you can view and download the records. Please note, I am forwarding your request to our Central Office Division of Environmental Remediation to see if it has additional records responsive to your request. You can expect a final response no later than 03/03/2026.

Be advised that DEC has withheld certain responsive documents or portions thereof from disclosure in accordance with one or more of the following provisions of the Public Officers Law (POL):

- POL 87.2.b. Would constitute an unwarranted invasion of personal privacy under POL 89.2
- POL 87.2.g. Inter-agency or intra-agency materials

Please reference FOIL #W159755-013026 in all future correspondence with DEC concerning this request. Thank you.

Sincerely,

Region 2 FOIL Coordinator