HydroTech Environmental
ENGINEERING AND GEOLOGY, DPC
231 West 29th Street, Suite 1104
New York, New York 10001 USA
Tel: (631) 462-5866
Email: Info@hydrotechenvironmental.com
WWW.HYDROTECHENVIRONMENTAL.COM
USA – Middle East – North Africa

August 10, 2026

New York State Department of Environmental Conservation
Division of Environmental Remediation
47-40 21st Street
Long Island City, NY 11101
Attn.: Ms. Wendi Zheng, Project Manager

Re: Post SVE System Startup Indoor Air Assessment – July 2026
Top Hat Cleaners Site
NYSDEC BCP Site #C224208
152 Graham Avenue, Brooklyn New York (the "Site")

Dear Ms. Zheng:

This report is intended to document the indoor air assessment performed at above-referenced New York State Department of Environmental Conservation (NYSDEC) Brownfield Cleanup Program (BCP) Site #C224208 (the Site) following the installation and operation of a soil vapor extraction (SVE) system. The scope of work presented in this document was based upon an NYSDEC-approved Remedial Action Work Plan (RAWP) dated August 2023 and a modified RAWP implementation schedule, which was approved by NYSDEC on March 6, 2025. The purpose of this assessment is to evaluate the efficacy of the SVE system by verifying that no potential soil vapor intrusion is impacting indoor air quality at the Site.

Site Description and Background

The Site is located at 152 Graham Avenue in the East Williamsburg section of Brooklyn, New York. The Site occupies an area of approximately 2,500 square feet and is currently developed with a three-story mixed-use commercial and residential building with a partial basement in the western portion and an open rear yard capped with concrete in the eastern portion. The ground floor of the building extends toward the rear yard with a 1-story structure over a slab on-grade. The building is constructed of concrete, brick, and mortar. The Site is currently occupied on the ground floor and the partial basement by Bushwick Green Cleaners, an eco-friendly and non-toxic dry cleaner, and on the upper second and third floors by four residential tenants.

Chlorinated volatile organic compounds (CVOCs) associated with historic use of the Site as a drycleaners were detected in soil and groundwater beneath the Site and a CVOCs soil vapor intrusion impact was identified on-Site and off-Site. These CVOCs consisted of tetrachloroethylene (PCE), trichloroethylene (TCE), and cis-1,2-dichloroethylene. Interim remedial activities for the CVOCs soil vapor mitigation were implemented at the Site accordance with NYSDEC-approved Interim Remedial Measures Work Plan (IRM WP)

dated November 2020. These IRM activities consisted of the installation of an active Sub-slab depressurization system (SSDS), which consisted of three suction trenches designated SSDS-1 to SSDS-3 that are each 4 foot long, 1 foot wide and 1 foot deep. The three trenches were merged into one riser and connected to a Radonaway Model GP501 fan with effluent terminating with a gooseneck approximately 7 feet above the rear parapet of the first-floor building extension. The SSDS radius of influence has been monitored via three vacuum monitoring points designated VP-1 to VP-3 and installed in the partial basement slab, and one point designated VP-4 and installed in the ground floor slab-on-grade. The SSDS was started on January 20, 2021. Subsequently, green remediation measures were implemented at the Site during 2023 in accordance with NYSDEC recommendations to enhance the efficacy of the SSDS by installing carbon air filtration units inside the residential apartments and also by plastering with cement all penetrations in the foundations stone walls and addressing the cracks in slab in partial basement by the installing a 2-inch slab atop of a 20-mil vapor barrier membrane. Despite the IRM SSDS and green remediation measures, PCE concentrations detected in indoor air at the Site continued to exceed the "Mitigate" values of its respective applicable Matrix B in the NYSDOH Guidance and the TCE indoor NYSDOH Guidance values. The SSDS was recently upgraded in December 2025 during the implementation of August 2023 NYSDEC-approved RAWP into an SVE system to further enhance the mitigation of CVOCs vapors intrusion at the Site and also to prevent their migration off-site.

SVE System Installation

The SVE system consists of two SVE wells designated as SVE-1 and SVE-2. Specifically, SVE-1 was installed beneath the western portion of the partial basement utilizing a Geoprobe Rig model 7822DT. SVE-2 was installed in the northern portion of the partial basement utilizing Kodiac rig. SVE-1 was installed to the depth of 12 feet below the basement slab (bbs) and SVE-2 was installed to 5 feet bbs due to drilling refusal. A third SVE well designated SVE-3 was proposed beneath the slab on-grade on the first floor of the building. Due to drilling refusal encountered at 5 feet below grade surface (bgs), this SVE well installation was waived in consultation with NYSDEC and based on satisfactory SVE vacuum communication from SVE-1 and SVE-2 as verified during system start-up.

Each SVE well was constructed using 2-inch diameter Schedule-80 PVC screen with 0.01-inch slot size that was placed at the bottom 5 feet in SVE-1 and 3 feet in SVE-2. The SVE system also incorporated the existing on-Site SSDS suction trenches SSDS-1, SSDS-2 and SSDS-3 and were connected to the SVE wells via 2-inch diameter CPVC riser pipe and then to a 1 Horsepower (HP) AMETEK ROTRON regenerative blower Model DR404. The effluent piping from the SVE blower is then connected to a 55-gallon vapor phase granulated activated carbon drum to treat air prior to discharging it through 3-inch diameter CPVC pipe at the top of the rear parapet of the first-floor building extension and at least 10 feet from air intakes of HVACs or from operable windows. The SVE blower is located in the rear open space at the Site inside a soundproof enclosure that is 63-inch high, 48-inch long, 40-inch wide. The blower is equipped with a 35-gallon knockout drum to

allow condensation liquid phase removal prior to airflow reaching the blower and is also wired to the existing telemetry system of the former SSDS.

For the purpose of monitoring of the SVE zone of influence, the four SSDS sub-slab vacuum monitoring points VP-1 to VP-4 were maintained and five additional vacuum monitoring points designated VEP-1 to VEP-5 were installed utilizing Geoprobe Rig model 7822DT and Geoprobe Rig model 420. Specifically, VEP-1 was installed in the rear open space at the Site, VEP-2 and VEP-3 were installed inside basement and ground floor of the building, and EP-4 and VEP-5 were installed in the south-and west-adjacent sidewalks to the Site. A sixth point VEP-6 was proposed in the northwest-adjacent sidewalk to the Site and could not be installed due to a conflict with a dense network of utilities markouts in that area. Each of VEP-1 to VEP-5 consisted of a stainless-steel installed to a depth of 5 feet bbs at VEP-3 and at depth of 8 feet bgs at VEP-1, VEP-2 to VEP-5. The SVE system was started on December 17, 2025, and it has been in full operation with 100% applied vacuum since this date.

Figure 1 to **Figure 5** provide the as-build plans of the SVE system.

SVE System Monitoring

The SVE system monitoring was initiated in accordance with the revised implementation schedule of the August 2023 RAWP, which was approved by NYSDEC in a correspondence dated March 6, 2025. The SVE system monitoring was initially performed at startup in December 2025 and then semi-annually on July 8, 2026 by HydroTech Qualified Environmental Professional under the oversight of the Remedial Engineer.

System monitoring consisted of verifying system parameters including airflow, vacuum and organic vapor concentrations at the effluent. Vacuum measurement was performed via vacuum pressure diaphragm gauge (Noshok Low Pressure Gauge, zero to 100 Inch H_2O (WC)) mounted on the SVE riser before entering the 35-gallon knockout drum of the blower. Organic vapors concentrations were measured with a Photoionization Detector (PID) at the two effluents. Airflow measurements of the system were recorded from the Dwyer Magnehelic gauge for air flow that is connected to Dwyer Series DS-30 flow sensor inserted in the SVE riser pipe entering the suction blower. The SVE zone of influence of the SVE system was also monitored utilizing a digital Extech HD755 differential micro-manometer via nine vacuum monitoring points VP-1 to VP-4 and VEP-1 to VEP-5 that are clustered on-Site and off-Site within the area of influence of the system. The inspection of the telemetry system indicated the VaporTrac unit was active with green light turned on. **Attachment 1** provides photographs of the fieldwork.

Table 1 provides the SVE system monitoring data collected at system start-up in December 2025 and semi-annually in July 2026. As **Table 1** indicates, no discernable organic vapors were detected with the PID at the SVE effluent. Organic vapors

concentration was measured at 2 parts per million (ppm) at the SVE influent in July 2026. The negative pressure at the SVE riser was measured at - 17 WC in December 2025 and then at -20 WC in July 2026, and the corresponding air flow was recorded at the Dwyer Magnehelic gauge for air flow at 10 cubic feet per minute (CFM) and 50 CFM. The negative pressure measurements at the nine vacuum monitoring points indicated a minimum of -0.01 WC was recorded during both monitoring events on-Site at VEP-1 and VEP-2, and off-Site at VEP-4.

Overall assessment of the SVE system monitoring data indicates the system is functioning properly by yielding a satisfactory radius of influence on-Site and its vicinity.

Indoor Air Samples Analytical Results

An indoor air assessment was performed on July 8, 2026 in accordance with the NYSDEC-approved August 2023 RAWP and pursuant to the NYSDEC-approved modified RAWP implementation schedule. The purpose of this sampling was to evaluate the performance of the SVE system mitigation post startup and verify that no potential soil vapor intrusion of TCE or PCE is impacting indoor air quality at the Site. Consistent with the sampling protocol presented in the RAWP, four indoor air samples designated IA-7 through IA-10 were collected inside each floor of the building including the basement along with one (1) outdoor air sample designated OA-2. **Figure 6** provides the post SVE system startup indoor air sampling map.

The ambient air sampling was conducted in accordance with the NYSDOH Guidance for Evaluating Soil Vapor Intrusion in the State of New York (October 2006). The indoor and outdoor air samples were obtained from typical breathing zone height during normal operation hours at the dry cleaners. All samples were collected utilizing 6-liter Summa Canisters fitted with a 6-hour laboratory flow regulator and the sampling occurred for six hours. Immediately after opening the Summa Canister, the initial vacuum (inches of mercury) and start time were recorded. After 6 hours of sampling, the Summa Canister was closed and the final vacuum and stop time were noted. The Summa Canisters were labeled and sent to a laboratory certified to perform air analysis in New York State. A supporting chain of custody was prepared following the completion of all sampling activities. The laboratory did not report any irregularities with respect to their internal Quality Assurance/Quality Control

Prior to the indoor air sampling, a pre-sampling inspection was conducted across each sampling location in accordance with the NYSDOH Indoor Air Sampling and Analysis Guidance dated February 2005. The inspection also included a product inventory of chemicals currently stored inside the buildings and a preliminary screening of indoor organic vapor concentrations utilizing PID. The carbon air filtration units inside the residential apartments were confirmed to be inactive. No evidence of odor and no organic vapors (<0.1 ppm) were detected with the PID inside the basement, the ground floor or the first second odor. Odor of essential oil scent and of smoking was noted on the third floor and organic vapors concentration of 1.1 ppm was detected with the PID. The

inspection identified numerous factory-sealed and used containers labelled as detergent and eco-friendly and non-toxic dry cleaner agents inside the drycleaners on the ground floor. The average indoor air temperature was approximately 80 degrees Fahrenheit. Due to excessive heat inside the drycleaners from the water heating boiler in the basement and the use of steam ironing on the ground floor, the sidewalk bilco door to the basement and the front and rear doors of this facility were kept open during sampling by the facility operator for ventilation. As, sampling area on the ground floor and the basement at the Site was not considered tight. All apartments had their windows and doors closed and were considered airtight.

Table 2 provides the VOCs detected in the indoor air post SVE system startup at the Site. As **Table 2** indicates, CVOCs were commonly detected in the ambient indoor and outdoor air samples at minimal concentrations. CVOCs in indoor ambient air included PCE (max. 4.3 µg/m^3 in IA-8), TCE (max. 1.6 µg/m^3 in IA-9), methylene chloride (max. 0.52 µg/m^3 in IA-9) and chloroform (max. 9.7 µg/m^3 in IA-7). CVOCs in background outdoor ambient air sample OA-2 included PCE (at 2 µg/m^3) and methylene chloride (at 0.38 µg/m^3). None of the detected indoor PCE, TCE or methylene chloride concentrations exceeded their respective NYSDOH indoor Air Guidance Values (AGV) of 30 µg/m^3, 2 µg/m^3, and 60 µg/m^3.

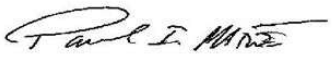
No TCE was detected in any indoor samples collected at the Site as evidenced by the results of IA-7 to IA-10. This represents a significant improvement in the indoor air quality at the Site compared to previous indoor air sampling in April 2021 and in February 2022, which commonly showed TCE concentrations in IA-7 to IA-10 exceeding its respective AGV of 2 µg.

Findings of this investigation indicate that the indoor air quality at the Site continues to be improved following the SVE system operation along with the green remediation measures that were implemented previously and without the need for carbon air filtration units inside the residential apartments. This is evidenced by the minimal concentrations of CVOCs in indoor air that were detected most recently at comparable levels as the previous 2025 heating season sampling under the former SSDS, the green remediation measures and carbon air filtration inside the residential apartments.

Table 3 provides Indoor/Outdoor Air Samples CVOCs Results Post SSDS and SVE System. **Figure 7** provides a map of CVOCs detected in indoor samples over time. **Attachment 2** provides NYSDOH questionnaire. **Attachment 3** provides the laboratory report. **Attachment 4** provides the DUSR report.

Should you have any questions, please feel free to contact our office at your convenience.

Very Truly Yours,
Hydro Tech Environmental Engineering and Geology, DPC



Paul I. Matli, PhD, PG
Senior Project Manager

cc: Jane H. O'Connell, PG (NYSDEC) (by email), w/ Enc.
Cris-Sandra Maycock (NYSDOH) (by email) , w/ Enc.
Reina Diaz, Top Hat Cleaners, w/ Enc.
Tarek Z. Khouri, PE - HydroTech
HydroTech file 200052, 240050 w/ Enc.

LIST OF ATTACHMENTS TO THIS ANNUAL PRR

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1. SVE System Monitoring Following Startup
2. Indoor/Outdoor Air Samples Analytical Results Post SVE System Startup - July 2026
3. Indoor/Outdoor Air Samples CVOCs Results Post SSDS and SVE System

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2. As-Build Plan of SVE System – Layout View
3. As-Build Plan of SVE System - Section View
4. As-Build Plan of SVE System - Blower Details
5. As-Build Plan of SVE System - SVE Wells Construction Details
6. As-Build Plan of SVE System - Vacuum Monitoring Points Construction Details
7. Map of COVCs In Indoor Air overtime

Attachments

1. Photographs
2. NYSDOH Questionnaire
3. Laboratory Report
4. DUSR Report

Tables

Table 1
SVE System Monitoring Following Startup
152 Graham Avenue, Brooklyn NY

Date	Blower		GAC Drum		Vacuum Communication Measurments (WC)								
					Sub-Slab Vacuum Monitoring Points (SSDS)				Vacuum Monitoring Points (SVE System)				
	Vacuum (WC)	Flow (CFM)	PID (ppm)		VP-1	VP-2	VP-3	VP-4	VEP-1 (8' bgs)	VEP-2 (8' bgs)	VEP-3 (5' bbs)	VEP-4 (8' bgs)	VEP-5 (8' bgs)
			Influent	Effluent									
12/17/2025 (Startup)	-17	10	4.0	0.0	-0.02	-0.08	-0.12	-0.01	-0.01*	-0.01	-0.04	-0.01	-0.03
7/8/2026	-20	50	2.0	0.0	-0.04	-0.07	-0.15	-0.1	-0.01	-0.01	-0.08	-0.01	-0.35

WC=inch water

CFM=cubic feet per minute
ppm=part per million
bgs=below grade surface
bbs=below basement slab
GAC=granulated activated carbon drum
*=measurement taken on 2/27/2026 after capping of open rear yard area

Table 2
Indoor/Outdoor Air Samples Analytical Results Post SVE System Startup - July 2026
152 Graham Avenue, Brooklyn, NY

Sample ID	IA-7		IA-8		IA-9		IA-10		OA-1	
Sampling Date	7/8/2026		7/8/2026		7/8/2026		7/8/2026		7/8/2026	
Client Matrix	Indoor Air		Indoor Air		Indoor Air		Indoor Air		Outdoor Air	
Compound	Result		Result		Result		Result		Result	
Units	ug/m^3	Q	ug/m^3	Q	ug/m^3	Q	ug/m^3	Q	ug/m^3	Q
1,1,1,2-Tetrachloroethane	0.200	U	0.200	U	0.200	U	0.200	U	0.210	U
1,1,1-Trichloroethane	0.180	U	0.180	U	0.180	U	0.180	U	0.190	U
1,1,2,2-Tetrachloroethane	0.190	U	0.180	U	0.180	U	0.180	U	0.200	U
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.270	U	0.260	U	0.260	U	0.260	U	0.280	U
1,1,2-Trichloroethane	0.190	U	0.180	U	0.180	U	0.180	U	0.200	U
1,1-Dichloroethane	0.160	U	0.150	U	0.150	U	0.160	U	0.170	U
1,1-Dichloroethylene	0.160	U	0.160	U	0.160	U	0.160	U	0.170	U
1,2,4-Trichlorobenzene	0.270	U	0.270	U	0.270	U	0.270	U	0.290	U
1,2,4-Trimethylbenzene	**2.60**	D	**3.30**	D	**6.30**	D	**6.30**	D	**0.59**	D
1,2-Dibromoethane	0.230	U	0.230	U	0.230	U	0.230	U	0.240	U
1,2-Dichlorobenzene	0.180	U	0.170	U	0.170	U	0.170	U	0.190	U
1,2-Dichloroethane	0.180	U	0.170	U	0.170	U	0.180	U	0.190	U
1,2-Dichloropropane	0.150	U	0.150	U	0.150	U	0.150	U	0.160	U
1,2-Dichlorotetrafluoroethane	0.340	U	0.330	U	0.330	U	0.340	U	0.360	U
1,3,5-Trimethylbenzene	**0.80**	D	**0.97**	D	**2**	D	**2.20**	D	0.0760	U
1,3-Butadiene	0.0660	U	**0.25**	JD	**0.85**	D	**4.80**	D	0.0690	U
1,3-Dichlorobenzene	0.160	U	0.160	U	0.160	U	0.160	U	0.170	U
1,3-Dichloropropane	0.140	U	0.130	U	0.130	U	0.140	U	0.140	U
1,4-Dichlorobenzene	0.140	U	0.130	U	0.130	U	0.140	U	0.140	U
1,4-Dioxane	0.360	U	0.350	U	0.350	U	0.360	U	0.380	U
2-Butanone	**1.50**	JD	**1.20**	JD	**4.20**	JD	**4.90**	JD	**2.40**	JD
2-Hexanone	0.210	U	0.210	U	0.210	U	**0.43**	JD	**0.45**	JD
3-Chloropropene	0.130	U	0.120	U	0.120	U	0.120	U	0.130	U
4-Methyl-2-pentanone	0.170	U	0.170	U	**0.42**	D	0.170	U	**1.50**	D
Acetone	**18**	D	**25**	D	**120**	D	**56**	D	**21**	D
Acrylonitrile	2	U	1.900	U	1.900	U	2	U	2.100	U
Benzene	**3.60**	D	**0.90**	D	**0.93**	D	**0.66**	D	**0.39**	D
Benzyl chloride	0.150	U	0.150	U	0.150	U	0.150	U	0.160	U
Bromodichloromethane	**0.70**	D	0.190	U	0.190	U	0.190	U	0.200	U
Bromoform	0.420	U	0.410	U	0.410	U	0.410	U	0.440	U
Bromomethane	0.160	U	0.160	U	0.160	U	0.160	U	0.170	U
Carbon disulfide	0.0770	U	0.0750	U	**0.50**	D	0.0760	U	0.0810	U
Carbon tetrachloride	0.180	U	0.180	U	0.180	U	0.180	U	0.190	U
Chlorobenzene	0.170	U	0.160	U	0.170	U	0.170	U	0.180	U
Chloroethane	0.140	U	0.140	U	0.140	U	0.140	U	0.150	U
Chloroform	**9.70**	D	**2.20**	D	**4.40**	D	**6.50**	D	0.140	U
Chloromethane	**1.20**	D	**0.97**	D	**1.30**	D	**1.10**	D	**0.96**	D
cis-1,2-Dichloroethylene	0.0970	U	0.0960	U	0.0960	U	0.0960	U	0.100	U
cis-1,3-Dichloropropylene	0.170	U	0.170	U	0.170	U	0.170	U	0.180	U
Cyclohexane	**1.10**	D	**0.65**	D	**3.50**	D	**2.70**	D	**0.62**	D
Dibromochloromethane	0.330	U	0.320	U	0.320	U	0.330	U	0.350	U
Dichlorodifluoromethane	**1.60**	D	**1.60**	D	**1.70**	D	**1.60**	D	1.600	D
Ethyl acetate	**1.40**	JD	**1.20**	JD	**2.70**	JD	**2.60**	JD	**1.30**	JD
Ethyl Benzene	**0.95**	D	**0.94**	D	**5.50**	D	**9.20**	D	0.150	U
Hexachlorobutadiene	0.390	U	0.380	U	0.380	U	0.380	U	0.410	U
Isopropanol	**16**	D	**15**	D	**48**	D	**20**	D	**5.70**	D
Methyl Methacrylate	**0.39**	D	**0.58**	D	0.240	U	**0.46**	D	0.260	U
Methyl tert-butyl ether (MTBE)	0.110	U	0.100	U	0.100	U	0.100	U	0.110	U
Methylene chloride	**0.40**	JD	**0.33**	JD	**0.52**	JD	0.110	U	**0.38**	JD
n-Heptane	0.150	U	0.150	U	**1.20**	D	**0.74**	D	0.160	U
n-Hexane	0.110	U	**0.40**	D	**0.63**	D	**0.57**	D	**0.35**	D
o-Xylene	**1.20**	D	**1.20**	D	**5.40**	D	**9**	D	0.150	U
p- & m- Xylenes	**4.60**	D	**4.90**	D	**31**	D	**71**	D	**1.40**	D
p-Ethyltoluene	**1.40**	D	**1.90**	D	**3.60**	D	**3.40**	D	**0.69**	D
Propylene	0.0940	U	0.0920	U	0.0920	U	0.0930	U	**0.76**	D
Styrene	0.130	U	0.120	U	**0.92**	D	0.120	U	0.130	U
Tetrachloroethylene	**3.20**	D	**2.80**	D	**4.30**	D	**2.70**	D	**2**	D
Tetrahydrofuran	**0.42**	JD	0.0930	U	0.0930	U	0.0940	U	0.100	U
Toluene	**1.90**	D	**1.70**	D	**4.10**	D	**2.80**	D	**1.30**	D
trans-1,2-Dichloroethylene	0.0910	U	0.0890	U	0.0890	U	0.0900	U	0.0960	U
trans-1,3-Dichloropropylene	0.170	U	0.170	U	0.170	U	0.170	U	0.180	U
Trichloroethylene	0.150	U	0.150	U	**1.60**	D	**1.30**	D	0.160	U
Trichlorofluoromethane (Freon 11)	1.100	D	1.100	D	1.100	D	1.100	D	1.200	D
Vinyl acetate	0.170	U	0.170	U	0.170	U	0.170	U	0.180	U
Vinyl bromide	0.150	U	0.140	U	0.140	U	0.140	U	0.150	U
Vinyl Chloride	0.0980	U	0.0960	U	0.0960	U	0.0970	U	0.100	U

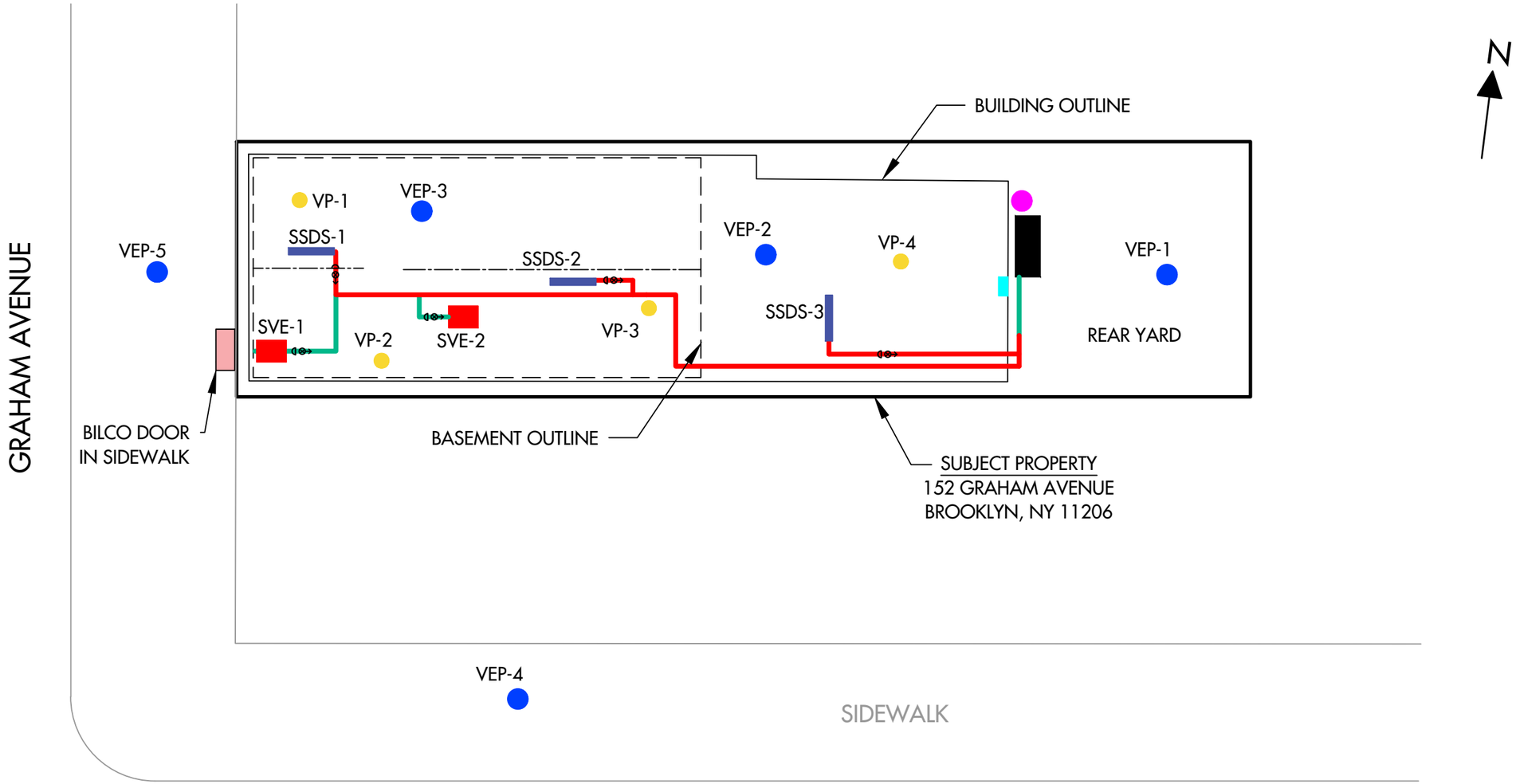
NOTES:
Q is the Qualifier Column with definitions as follows:
D=result is from an analysis that required a dilution
J=analyte detected at or above the MDL (method detection limit) but below the RL (Reporting Limit) - data is estimated
U=analyte not detected at or above the level indicated
B=analyte found in the analysis batch blank
Bolded indicates concentration is greater than MDL

Table 3
Indoor/Outdoor Air Samples CVOCs Results Post SSDS and SVE System
152 Graham Avenue, Brooklyn, NY

Sample ID	IA-7								IA-8								IA-9								IA-10								OA-2							
Sampling Date	4/2/2021		2/11/2022		2/14/2025		7/8/2026		4/2/2021		2/11/2022		2/14/2025		7/8/2026		4/2/2021		2/11/2022		2/14/2025		7/8/2026		4/2/2021		2/11/2022		2/14/2025		7/8/2026		4/2/2021		2/11/2022		2/14/2025		7/8/2026	
Client Matrix	Indoor Air								Indoor Air								Indoor Air								Indoor Air								Outdoor Air							
Compound	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
Units	ug/m^3	Q	ug/m^3	Q	ug/m^3	Q	ug/m^3	Q	ug/m^3	Q	ug/m^3	Q	ug/m^3	Q	ug/m^3	Q	ug/m^3	Q	ug/m^3	Q	ug/m^3	Q	ug/m^3	Q	ug/m^3	Q	ug/m^3	Q	ug/m^3	Q	ug/m^3	Q	ug/m^3	Q	ug/m^3	Q	ug/m^3	Q	ug/m^3	Q
Carbon tetrachloride	**0.36**	D	**0.40**	D	**0.38**	D	0.18	U	**0.32**	D	**0.40**	D	**0.37**	D	0.18	U	**0.43**	D	**0.35**	D	**0.36**	D	0.18	U	**0.47**	D	**0.39**	D	**0.46**	D	0.18	U	**0.38**	D	**0.62**	D	**0.33**	D	0.19	U
Chloroform	**3.40**	D	**5.50**	D	**5.90**	D	**9.70**	D	**1.30**	D	**0.94**	D	**1.80**	D	**2.20**	D	**0.61**	D	**1.20**	D	**0.80**	D	**4.40**	D	**0.57**	D	**1.40**	D	**1.90**	D	**6.50**	D	0.50	U	0.97	U	0.43	U	0.14	U
cis-1,2-Dichloroethylene	**0.45**	D	**0.76**	D	0.10	U	0.10	U	0.13	U	0.11	U	0.10	U	0.10	U	0.11	U	0.11	U	0.10	U	0.10	U	0.10	U	0.12	U	0.10	U	0.10	U	0.10	U	0.20	U	0.09	U	0.10	U
Methylene chloride	**16**	D	**2.10**	D	2.10	U	**0.40**	JD	**9.30**	D	**1.20**	D	2.10	U	**0.33**	JD	**4.90**	D	**3.40**	D	2.00	U	**0.52**	JD	**15**	D	**2.0**	D	2.20	U	0.11	U	**7.30**	D	**2.60**	D	1.80	U	**0.38**	JD
Tetrachloroethylene	**16**	D	**21**	D	**2.90**	D	**3.20**	D	**1.70**	D	**10**	D	**4.50**	D	**2.80**	D	**3.10**	D	**4.40**	D	**1.70**	D	**4.30**	D	**1.50**	D	**2.70**	D	**1.90**	D	**2.70**	D	**0.69**	J	**12**	D	**2.20**	D	**2**	D
Trichloroethylene	**4.50**	D	**6.70**	D	0.14	U	0.150	U	**6.80**	D	**14**	D	0.13	U	0.15	U	**4.50**	D	**9.60**	D	0.13	U	**1.60**	D	**4.60**	D	**3.10**	D	0.14	U	**1.30**	D	0.14	U	**0.53**	D	0.12	U	0.16	U

NOTES:
All Concentrations are reported in ug/m^3
Q is the Qualifier Column with definitions as follows:
D=result is from an analysis that required a dilution
J=analyte detected at or above the MDL (method detection limit) but below the RL (Reporting Limit) - data is estimated
U=analyte not detected at or above the level indicated
B=analyte found in the analysis batch blank
Bolded indicates concentration is greater than MDL
Shaded concentration exceeded NYSDOH air guidline value
4/2/2021 - 2/11/2022 - 2/14/2025 = Sampling results of SSDS efficacy
7/8/2026 = Sampling results of SVE system efficacy

Figures



LEGEND

- SVE WELL LOCATION (SVE-)
- SSDS VACUUM MONITORING POINT (VP-)
- SUB-SLAB SSDS SUCTION TRENCHES
- SSDS 4" Ø CPVC RISER PIPES
- SVE VACUUM MONITORING POINTS (VEP-)
- VAPORTRACK TELEMETRY SYSTEM AND RADON ALARM
- *55*-GAL GAC DRUM
- SVE BLOWER INSIDE A HAZMAT ENCLOSURE WITH SURROUNDING METAL SHED

- SITE BOUNDARIES
- BASEMENT LAYOUT
- BUILDING LAYOUT
- PARTITION WALL IN PARTIAL BASEMENT
- 2" Ø CPVC SVE WELL RISER PIPES
- BUTTERFLY VALVE AND VACUUM GAUGE

SVE = SOIL VAPOR EXTRACTION SYSTEM

SSDS = SUB-SLAB DEPRESSURIZATION SYSTEM

0 — 25

APPROXIMATE SCALE IN FEET

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BASE DRAWING PREPARED BY

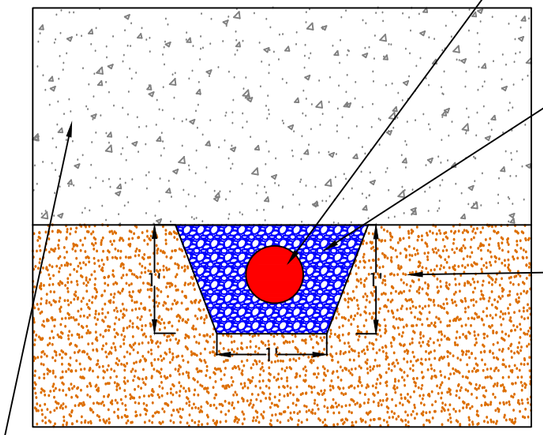
PROJECT NAME AND ADDRESS

152 GRAHAM AVENUE, BROOKLYN, NY 11206

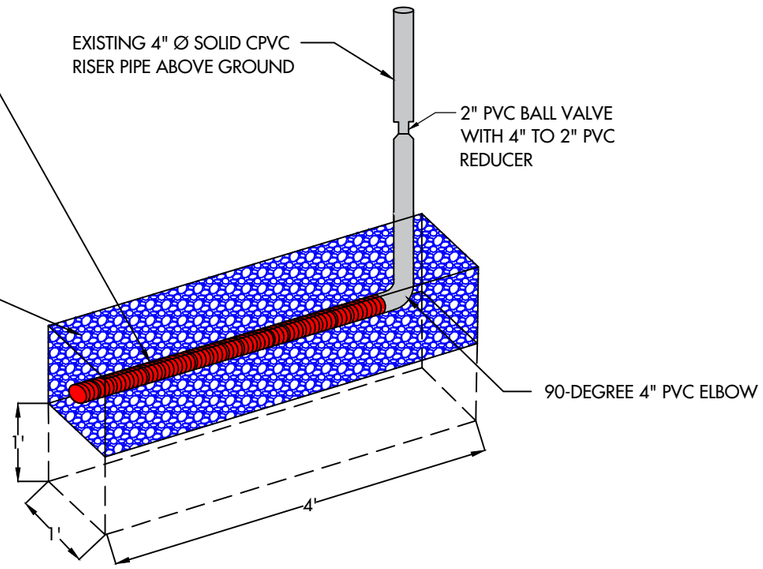
PROJECT FIGURE

FIGURE 1: AS-BUILD PLAN OF SVE SYSTEM-LAYOUT VIEW

PROJECT NO.	DATE
240052	07/23/2026
DRAWN BY A.S.	REVIEWED BY P.M.
SCALE (11X17) AS SHOWN	APPROVED BY P.M.

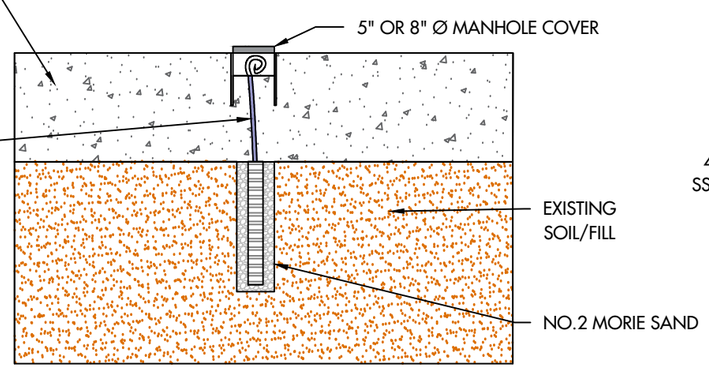


SSDS TRENCH CROSS SECTION VIEW

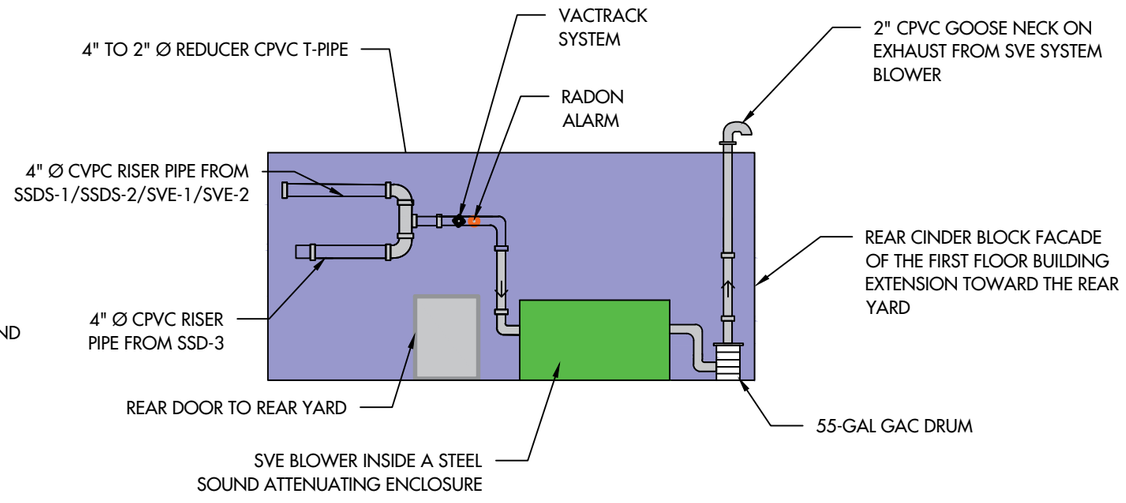


SSDS TRENCH LATERAL SECTION VIEW

EXISTING 3"OR 8"
CONCRETE SLAB. (2" SLAB
PLACED ON TOP 3" SLAB IN
PARTIAL BASEMENT.)



SUB-SLAB VACUUM MONITORING
POINT SECTION DETAIL



SVE BLOWER RISER SYSTEM

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PROJECT NAME AND ADDRESS

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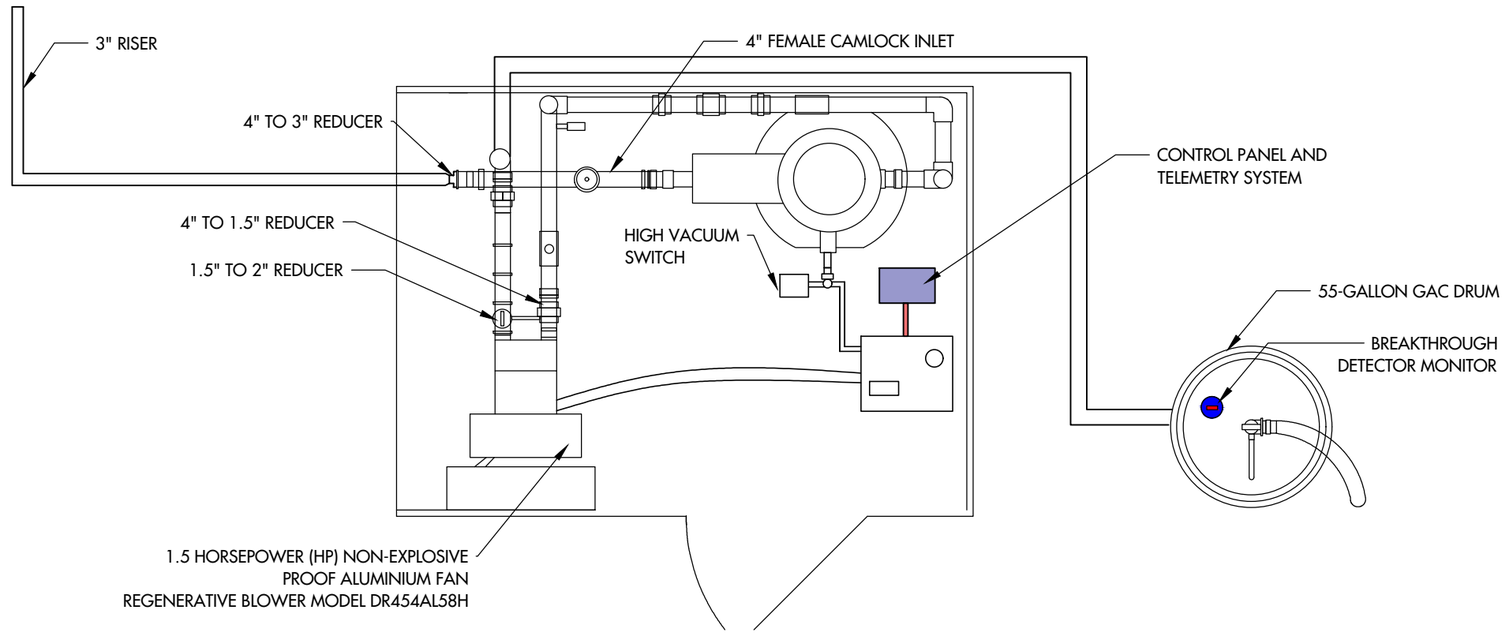
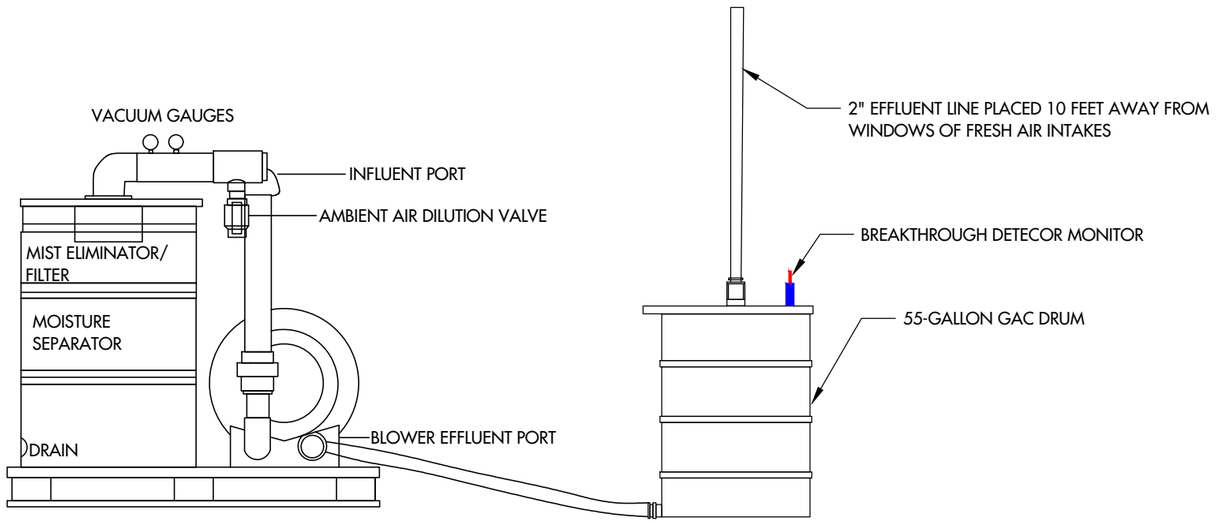
PROJECT FIGURE

FIGURE 2: AS-BUILD PLAN OF SVE SYSTEM-SECTION DETAILS

PROJECT NO.	DATE
240052	07/23/2026
DRAWN BY A.S.	REVIEWED BY P.M.
SCALE (11X17) NOT TO SCALE	APPROVED BY P.M.



SVE SYSTEM EQUIPMENT PLAN VIEW



SVE SYSTEM EQUIPMENT CROSS SECTION VIEW

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PROJECT NAME AND ADDRESS

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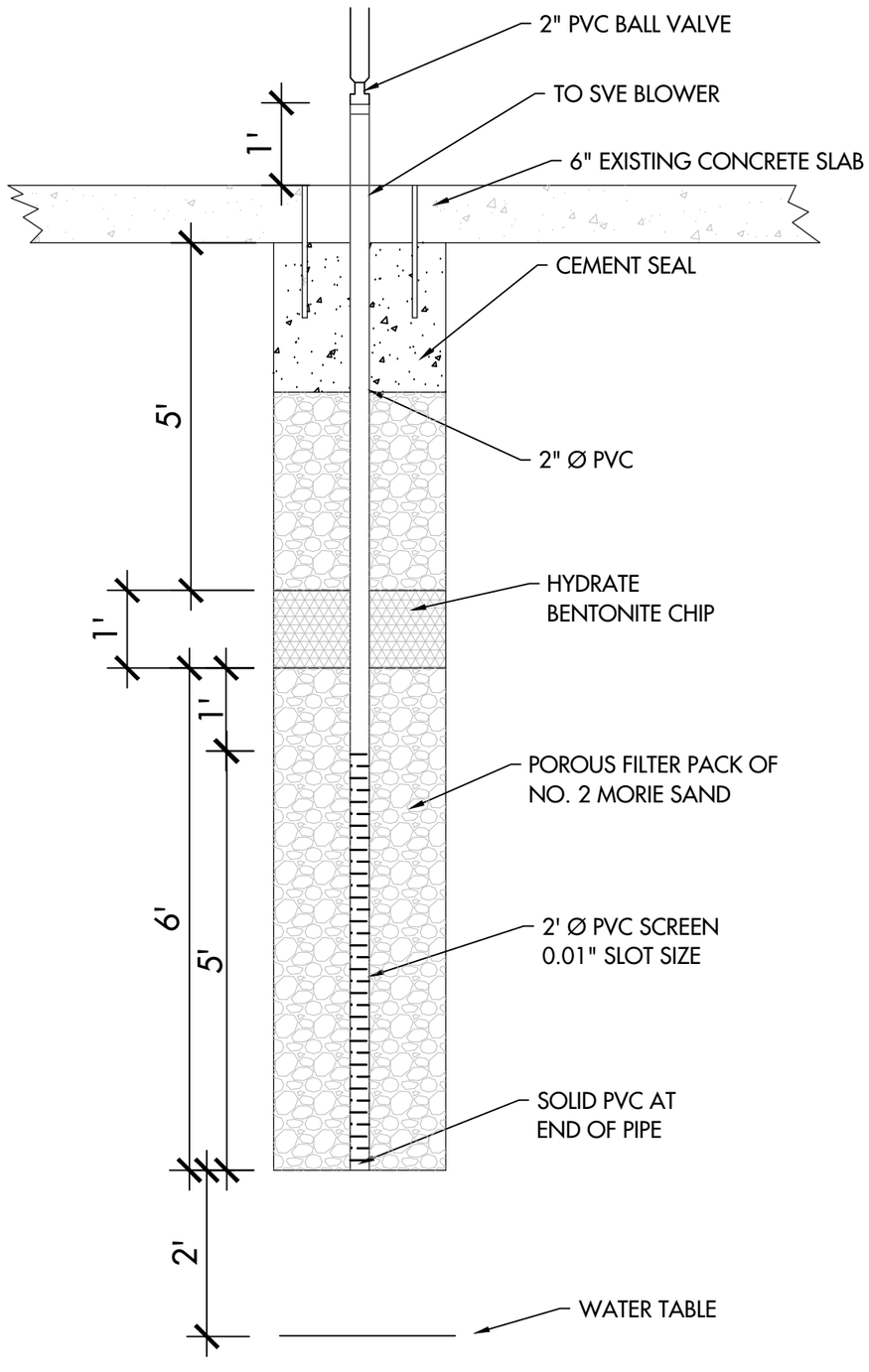
PROJECT FIGURE

FIGURE 3: AS-BUILD PLAN OF SVE SYSTEM-BLOWER DETAILS

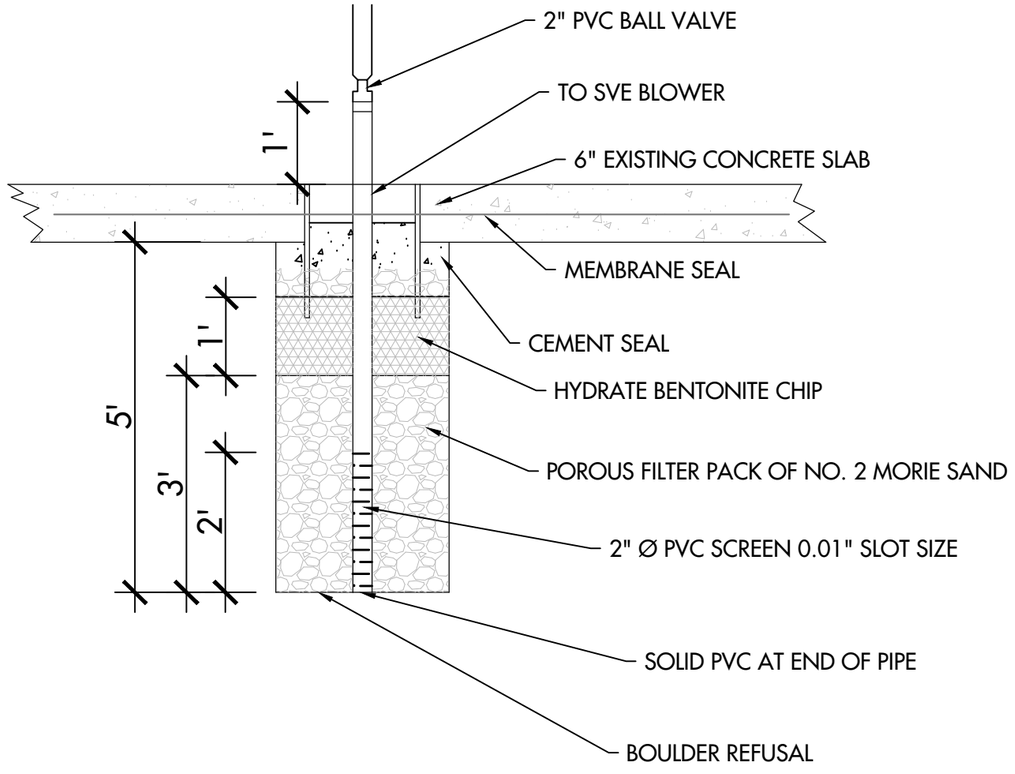
PROJECT NO.	DATE
240052	07/23/2026
DRAWN BY A.S.	REVIEWED BY P.M.
SCALE (11X17) NOT TO SCALE	APPROVED BY P.M.

SVE-1



5" Ø BOREHOLE

SVE-2



3" Ø BOREHOLE

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PROJECT NAME AND ADDRESS

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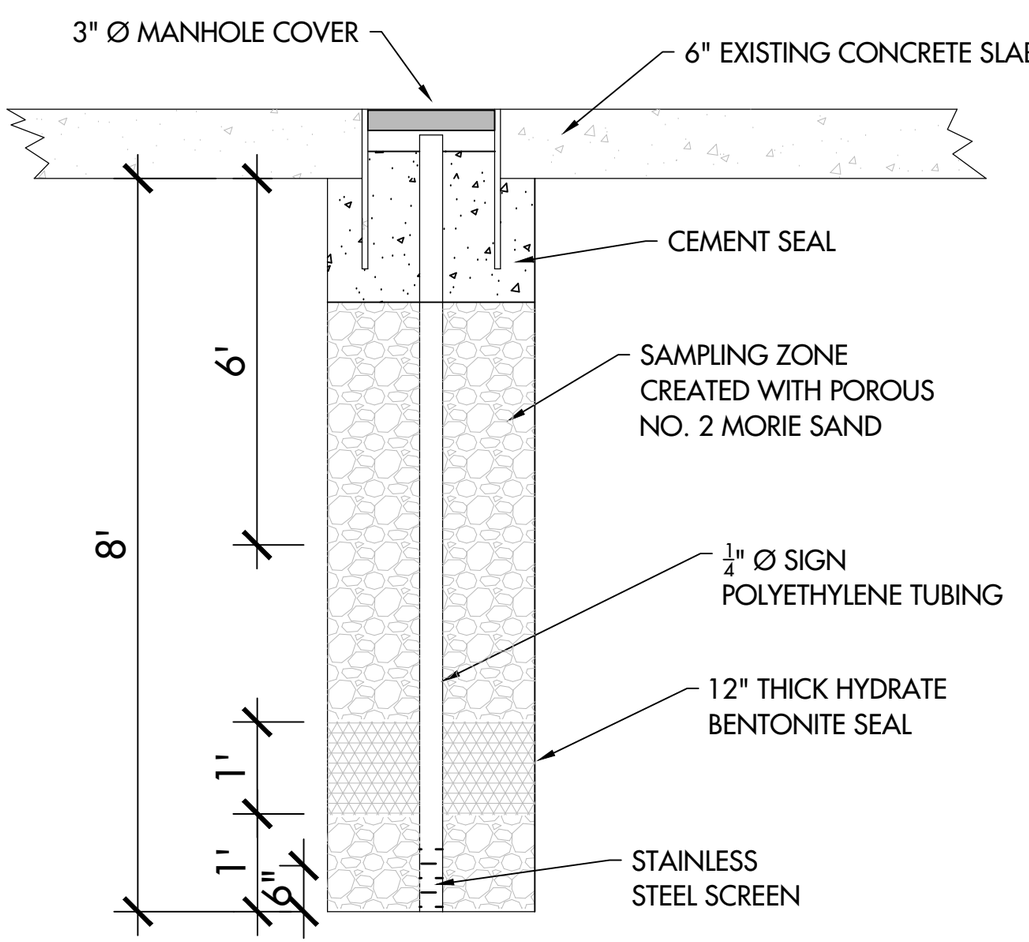
PROJECT FIGURE

FIGURE 4: AS-BUILD PLAN OF SVE WELLS CONSTRUCTION DETAILS

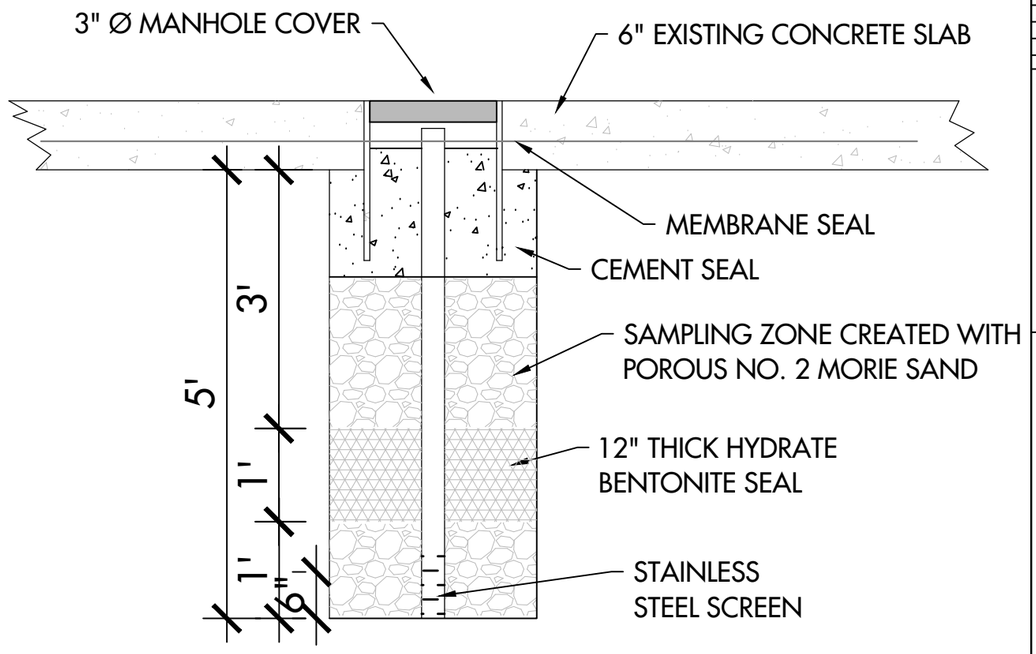
PROJECT NO.	DATE
240052	07/23/2026
DRAWN BY: A.S.	REVIEWED BY: P.M.
SCALE (11X17): NOT TO SCALE	APPROVED BY: P.M.

VEP-1,2,4,5



2.5" Ø BOREHOLE

VEP-3



2.5" Ø BOREHOLE

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PROJECT NAME AND ADDRESS

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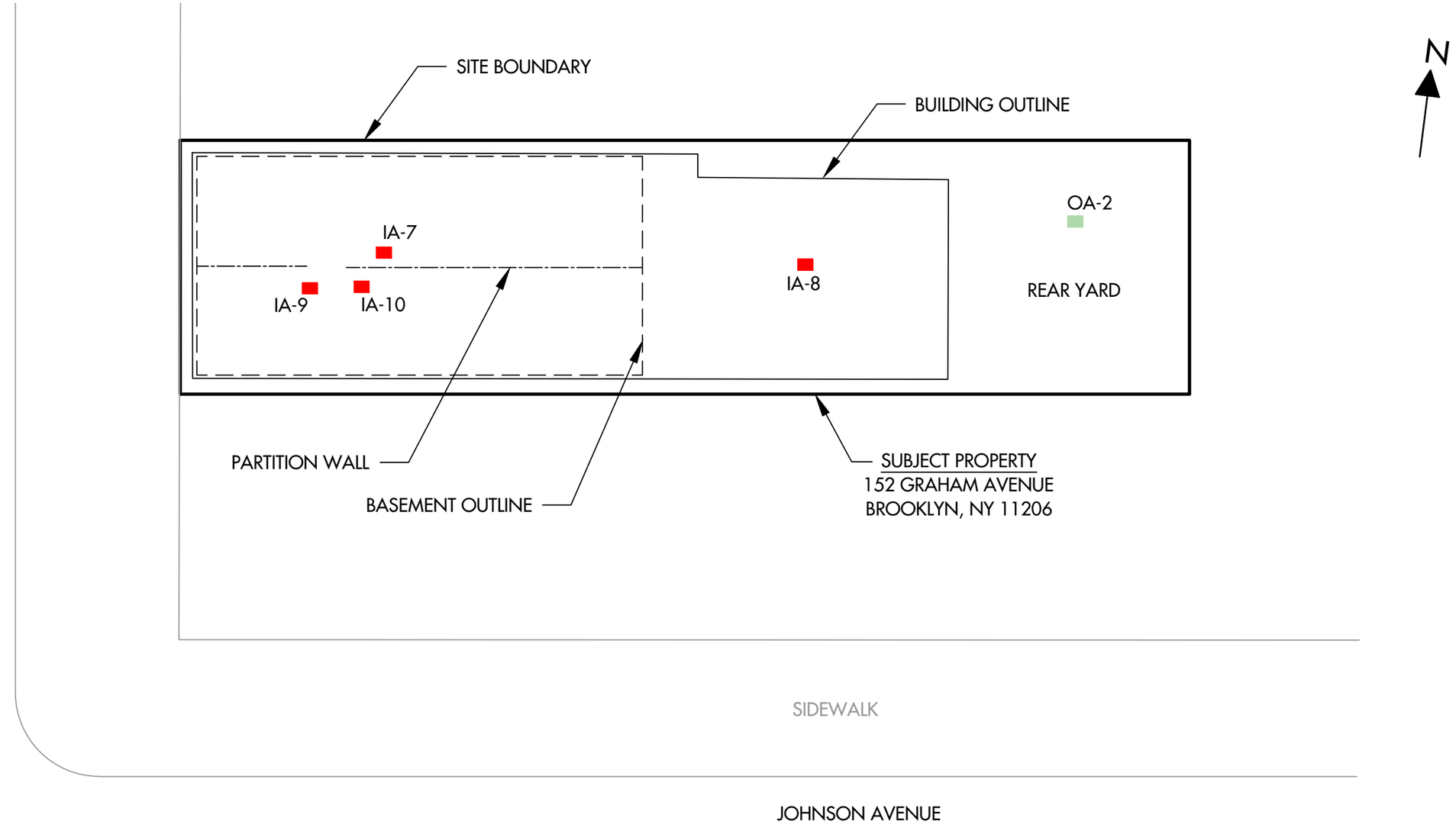
PROJECT FIGURE

FIGURE 5: AS-BUILD PLAN OF SVE SYSTEM-VACUUM MONITORING POINTS CONSTRUCTION DETAILS

PROJECT NO.	DATE
240052	07/23/2026
DRAWN BY A.S.	REVIEWED BY P.M.
SCALE (11X17) NOT TO SCALE	APPROVED BY P.M.



LEGEND:

- OUTDOOR AIR SAMPLE (OA-)
- INDOOR AIR SAMPLES (IA-)
  - IA -7 CENTRAL PORTION OF THE PARTIAL BASEMENT
  - IA-8 CENTRAL PORTION OF THE SLAB-ON-GRADE AREA
  - IA-9 INSIDE THE TENANT SPACE ON 2ND FLOOR
  - IA-10 INSIDE THE TENANT SPACE ON 3RD FLOOR

0 — 25

APPROXIMATE SCALE IN FEET

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PROJECT NAME AND ADDRESS

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PROJECT FIGURE

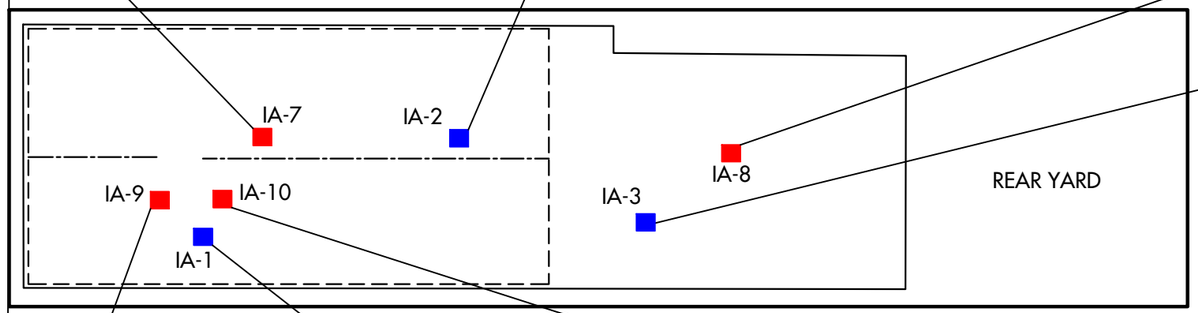
FIGURE 6: POST SVE SYSTEM STARTUP INDOOR AIR SAMPLING MAP

PROJECT NO.	DATE
240052	07/23/2026
DRAWN BY A.S.	REVIEWED BY P.M.
SCALE (11X17) NOT TO SCALE	APPROVED BY P.M.

SAMPLE ID	IA-7			
SAMPLING DATE	4/2/2021	2/11/2022	2/14/2025	7/8/2026
UNITS	ug/m3	ug/m3	ug/m3	ug/m3
CARBON TETRACHLORIDE	0.36 D	0.40 D	0.38 D	0.18 U
CIS-1,2-DICHLOROETHYLENE	0.45 D	0.76 D	0.10 U	0.10 U
METHYLENE CHLORIDE	16 D	2.10 D	2.10 U	0.40 JD
TETRACHLOROETHYLENE	16 D	21 D	2.9 D	3.2 D
TRICHLOROETHYLENE	4.5 D	6.7 D	0.14 U	0.15 U

SAMPLE ID	IA-2
SAMPLING DATE	11/20/2018
UNITS	ug/m3
CARBON TETRACHLORIDE	0.7
CHLOROFORM	1.66
TETRACHLOROETHYLENE	20.4
TRICHLOROETHYLENE	6.87

SAMPLE ID	IA-8			
SAMPLING DATE	4/2/2021	2/11/2022	2/14/2025	7/8/2026
UNITS	ug/m3	ug/m3	ug/m3	ug/m3
CARBON TETRACHLORIDE	0.32 D	0.40 D	0.37 D	0.18 U
CHLOROFORM	1.3 D	0.94 D	1.8 D	2.2 D
TETRACHLOROETHYLENE	1.70 D	10 D	4.5 D	2.8 D
TRICHLOROETHYLENE	6.8 D	14 D	0.13 U	0.15 U



GRAHAM AVENUE

SAMPLE ID	IA-3
SAMPLING DATE	4/5/2021
UNITS	ug/m3
CARBON TETRACHLORIDE	0.43 D
METHYLENE CHLORIDE	0.92 D
TETRACHLOROETHYLENE	1.40 D
TRICHLOROETHYLENE	18 D

SAMPLE ID	IA-10			
SAMPLING DATE	4/2/2021	2/11/2022	2/14/2025	7/8/2026
UNITS	ug/m3	ug/m3	ug/m3	ug/m3
CARBON TETRACHLORIDE	0.47 D	0.39 D	0.46 D	0.18 U
METHYLENE CHLORIDE	15 D	2 D	2.2 U	0.11 U
TETRACHLOROETHYLENE	1.50 D	2.70 D	1.9 D	2.7 D
TRICHLOROETHYLENE	4.6 D	3.1 D	0.14 U	1.3 D

SAMPLE ID	IA-9			
SAMPLING DATE	4/2/2021	2/11/2022	2/14/2025	7/8/2026
UNITS	ug/m3	ug/m3	ug/m3	ug/m3
CARBON TETRACHLORIDE	0.43 D	0.35 D	0.36 D	0.18 U
METHYLENE CHLORIDE	4.90 D	3.40 D	2 U	0.52 JD
TETRACHLOROETHYLENE	3.10 D	4.40 D	1.7 D	4.3 D
TRICHLOROETHYLENE	4.5 D	9.6 D	0.13 U	1.6 D

SAMPLE ID	IA-1
SAMPLING DATE	11/20/2018
UNITS	ug/m3
CARBON TETRACHLORIDE	0.64
CIS-1,2-DICHLOROETHYLENE	1.24
METHYLENE CHLORIDE	ND
TETRACHLOROETHYLENE	396
TRICHLOROETHYLENE	3.75

LEGEND:
- PROPERTY BOUNDARY
- BUILDING OUTLINE
- BASEMENT OUTLINE
- PARTITION WALL
- INDOOR AIR SAMPLES (IA-) COLLECTED PER IRM WP AND RAWP
  - -IA-7 PARTIAL BASEMENT
  - -IA-8 GROUND FLOOR
  - -IA-9 TENANT SPACE ON 2ND FLOOR
  - -IA-10 TENANT SPACE ON 3RD FLOOR
- INDOOR AIR SAMPLES (IA-) COLLECTED PER RIWP
  - -IA-1 PARTIAL BASEMENT
  - -IA-2 GROUND FLOOR

ND =	NOT DETECTED
NYSDOH =	NEW YORK STATE DEPARTMENT OF HEALTH
ug/m3	MICROGRAMS PER CUBIC METER
D =	RESULT IS FROM AN ANALYSIS THAT REQUIRED A DILUTION
J =	ANALYTE DETECTED AT OR ABOVE THE MDL (METHOD DETECTION LIMIT) BUT BELOW THE RL (REPORTING LIMIT) - DATA IS ESTIMATED
U =	ANALYTE NOT DETECTED AT OR ABOVE THE LEVEL INDICATED
B =	ANALYTE FOUND IN THE ANALYSIS BATCH BLANK
SSDS =	SUB-SLAB DEPRESSURIZATION SYSTEM
SVE =	SOIL VAPOR EXTRACTION SYSTEM
RIWP =	REMEDIAL INVESTIGATION WORK PLAN
IRM WP =	INTERIM REMEDIAL MEASURES WORK PLAN
RAWP =	REMEDIAL ACTION WORK PLAN

- INDICATES CONCENTRATION EXCEEDED NYSDOH AIR GUIDELINE VALUE
- DATA COLLECTED DURING REMEDIAL INVESTIGATION
- DATA COLLECTED POST SSDS START-UP
- DATA COLLECTED POST SVE STARTUP

0 — 20

APPROXIMATE SCALE IN FEET

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BASE DRAWING PREPARED BY

PROJECT NAME AND ADDRESS

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PROJECT FIGURE

FIGURE 7: MAP OF CVOCs IN INDOOR AIR OVERTIME

PROJECT NO. 240052	DATE 07/24/2026
DRAWN BY A.S.	REVIEWED BY P.M.
SCALE (11X17) NOT TO SCALE	APPROVED BY P.M.

Attachments

Attachment 1

Photographs



SVE blower system



GAC drum



Telemetry system



Dwyer Magnehelic air flow gauge







Negative pressure measurements at vacuum monitoring points



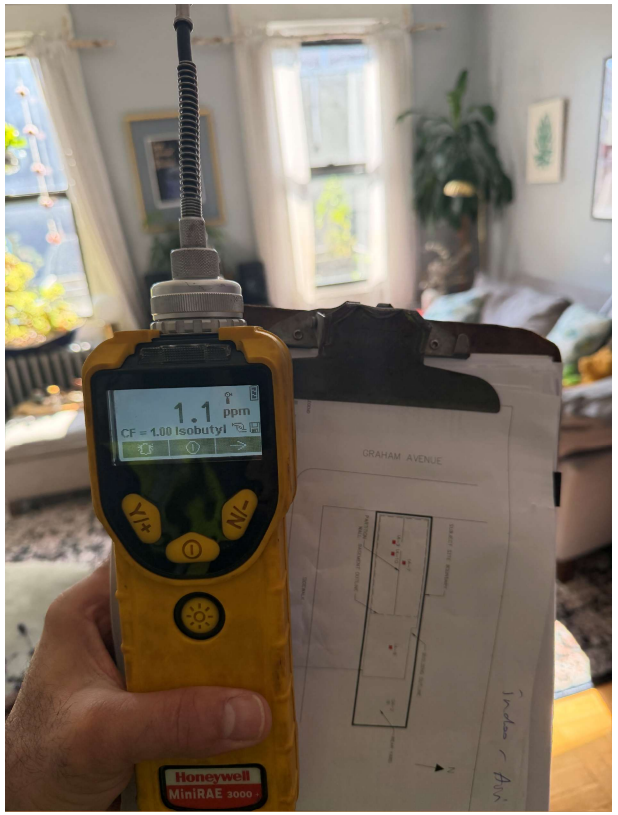
PID reading at SVE effluent



Indoor air survey for organic vapor in partial basement



Indoor air survey for organic vapor inside the 2nd floor residence



Indoor air survey for organic vapor inside the 3rd floor residence



Indoor air sampling in the drycleaners



Indoor air sampling in partial basement



Indoor air sampling in the 2nd floor



Indoor air sampling in the 3rd floor





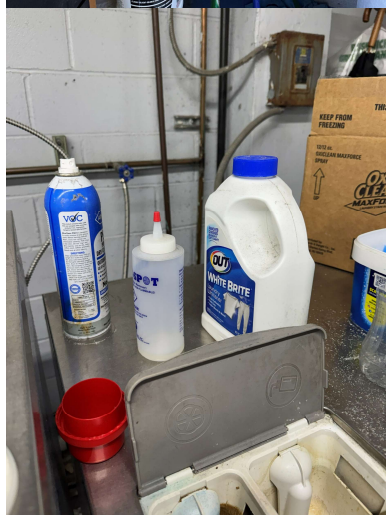












View of eco-friendly dry-cleaning products on the 1st floor

Attachment 2

NYSDOH Questionnaire

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

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

Preparer's Name Eric Gaj Date/Time Prepared 7/8/26

Preparer's Affiliation Consultant (HTE) Phone No.

Purpose of Investigation post SVE system SVI evaluation

1. OCCUPANT:

Interviewed: Y / (N)

Last Name: First Name:

Address:

County:

Home Phone: Office Phone:

Number of Occupants/persons at this location Age of Occupants

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

Interviewed: (Y) / N

Last Name: Diaz First Name: Danny

Address: 152 Graham Ave, Bushwick Green Cleaners

County:

Home Phone: Office Phone: (917) 892-8507

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: walk up apartment

If multiple units, how many? 3

If the property is commercial, type?

Business Type(s) Dry Cleaners (Bushwick Green cleaners)

Does it include residences (i.e., multi-use)? (Y) / N If yes, how many? 3

Other characteristics:

Number of floors 3 Building age 80+

Is the building insulated? Y / (N) How air tight? Tight / (Average) / (Not Tight) → Residential units.

Front and back doors of ground floor commercial and basement bldg door are open thruout the day.

4. AIRFLOW

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

Airflow between floors

Staircase

Airflow near source

Staircase

Outdoor air infiltration

Basement: Gate doors to sidewalk open entire sampling
1st floor: Front and back doors open entire sampling
2nd & 3rd floor: windows in front and rear not air tight

Infiltration into air ducts

N/A

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

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

Basement/Lowest level depth below grade: 7 (feet)

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

Fine cracks in basement slab

6. **HEATING, VENTING and AIR CONDITIONING** (Circle all that apply)

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

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

The primary type of fuel used is:

Natural Gas	Fuel Oil	Kerosene
Electric	Propane	Solar
Wood	Coal	

Domestic hot water tank fueled by: Natural Gas

Boiler/furnace located in:	Basement	Outdoors	Main Floor	Other_____
Air conditioning:	Central Air	Window units	Open Windows	None

Are there air distribution ducts present? Y / N

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

N/A

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	Partial basement (boiler room & meter room)
1st Floor	Dry cleaners, Backyard (slab on grade)
2nd Floor	2 residential units
3rd Floor	1 residential units
4th Floor	

8. FACTORS THAT MAY INFLUENCE INDOOR AIR QUALITY

a. Is there an attached garage? Y / (N)

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

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

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

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

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

g. Is there smoking in the building? (Y) / N How frequently? Daily

h. Have cleaning products been used recently? Y / N When & Type? Daily; detergents, Chlorox, all purpose

i. Have cosmetic products been used recently? Y / N When & Type? Daily; residential

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? in Residential

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

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: Cleaning products on 1st floor, Smoking and scents in 3rd floor

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? Detergent, bleach, Ammonia, Chlorox

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: Jan 2021 - SSDS
Is the system active or passive? (Active)/Passive Dec 2025 - SVE system

9. WATER AND SEWAGE

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

10. RELOCATION INFORMATION (for oil spill residential emergency)

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

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

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

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

11. FLOOR PLANS

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

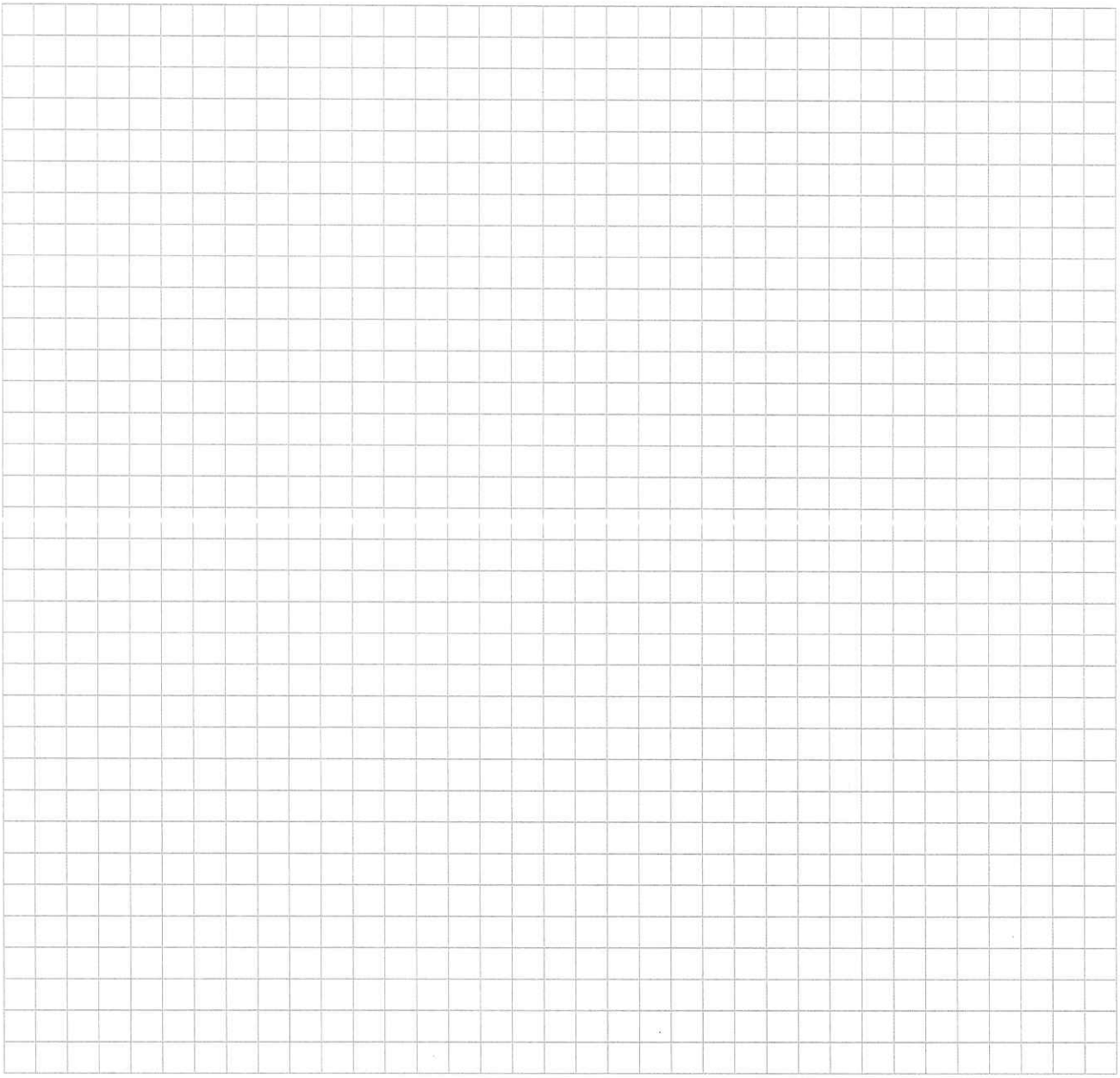
Basement:

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.



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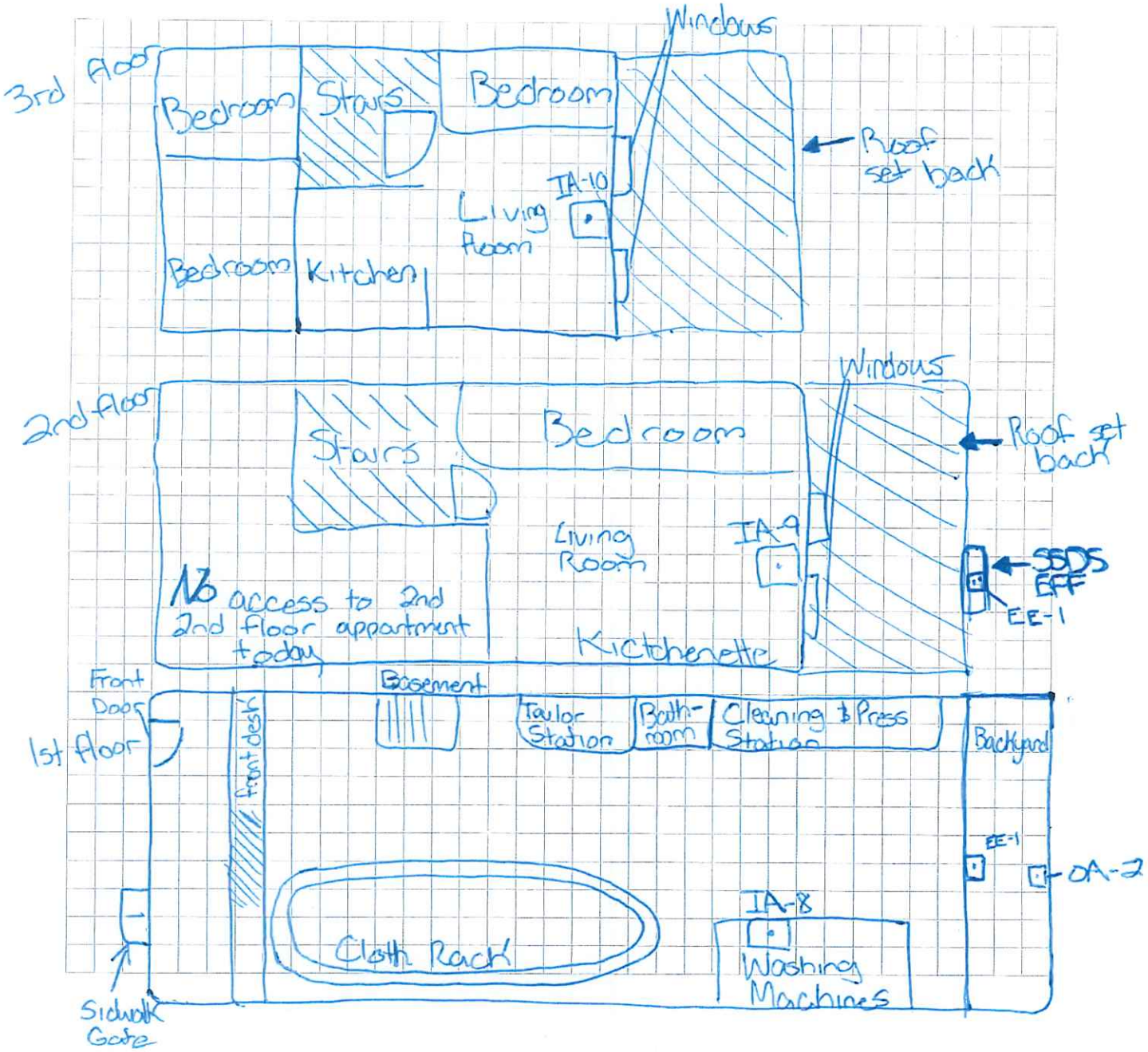

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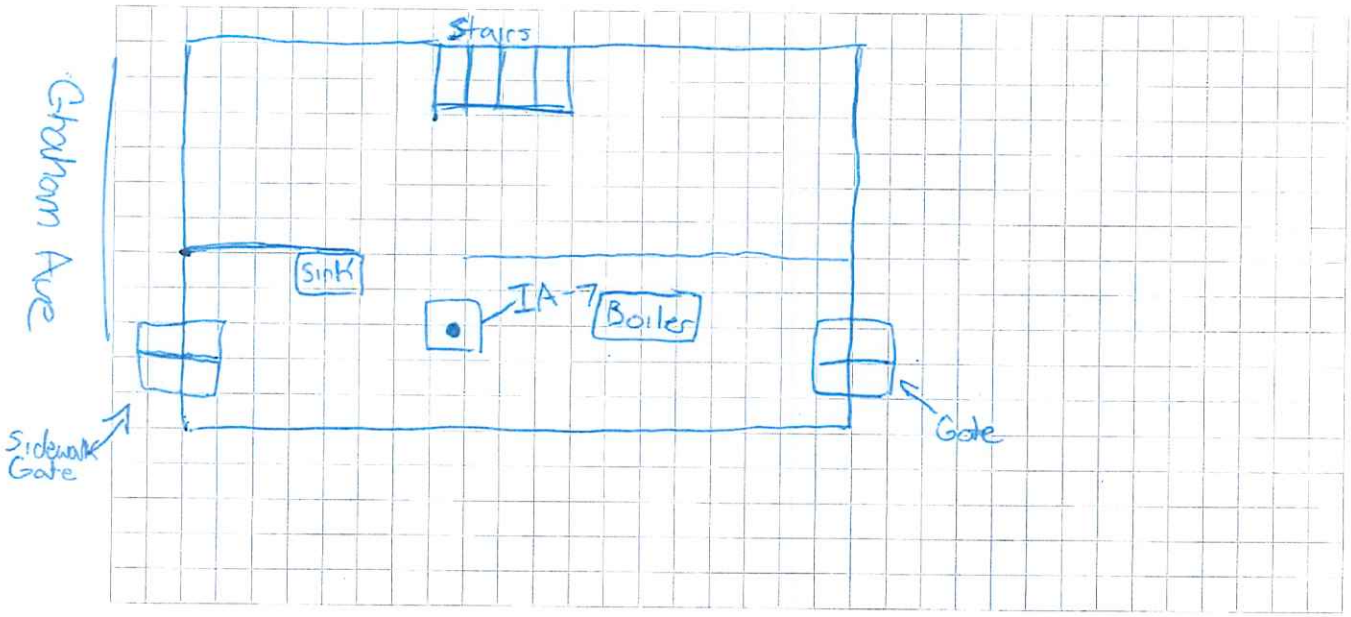
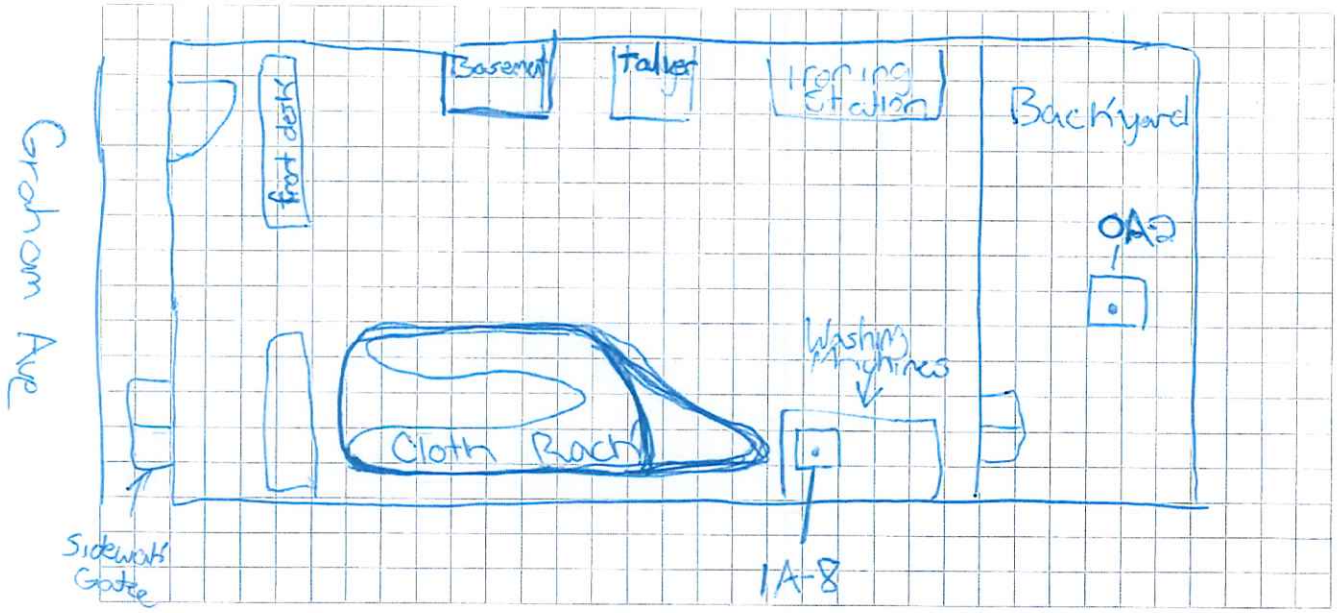
Basement:



First Floor:



13. PRODUCT INVENTORY FORM

Make & Model of field instrument used: Minirae lite

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

Location	Product Description	Size (units)	Condition*	Chemical Ingredients	Field Instrument Reading (units)	Photo ** Y / N
1st floor	Laundry detergent	1 gal (2D)	UO/U	ultra Aura, Tide, Aura Bleach alley, Wes Encore	0.0	Y
	Stain removers	1 gal (18)	UO/U	Clorox, Oxi clean, Shotspot, Hydrogen peroxide, Clenzyme, Pinn	0.0	Y
	Multipurpose cleaners	1 gal (10)	UO/U	La's totally Awesome, Lestoil	0.0	Y
	Ironing spray	12 oz (2)	U	Faultless Niagra	0.0	Y
	cloth degreasers	1 gal (2)	UO/U	Pyratex Lv	0.0	Y
2nd floor	Perfumes / household cleaners	12 oz (4)	U	[illegible]	0.0	Y
3rd floor	Smoking tray	N/A	U	smoking odor & essential oils odor	1.0	Y
Basement	None	N/A	N/A	N/A	N/A	N/A

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

Attachment 3

Laboratory Report

Technical Report

prepared for:

Hydro Tech Environmental
231 West 29th Street, Suite 1104
New York NY, 10001
Attention: Paul Matli

Report Date: 07/14/2026
Client Project ID: 152 Graham Avenue Brooklyn, NY 240052
Project (SDG) No.: 26G0459

120 RESEARCH DRIVE STRATFORD, CT 06615 ■ 132-02 89th AVENUE RICHMOND HILL, NY 11418
www.alsglobal.com/usaenviro (203) 325-1371 FAX (203) 357-0166 nastr.clientservices@alsglobal.com

Report Date: 07/14/2026
Client Project ID: 152 Graham Avenue Brooklyn, NY 240052
Project (SDG) No.: 26G0459

Hydro Tech Environmental
231 West 29th Street, Suite 1104
New York NY, 10001
Attention: Paul Matli

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on July 08, 2026 and listed below. The project was identified as your project: **152 Graham Avenue Brooklyn, NY 240052**.

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.

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

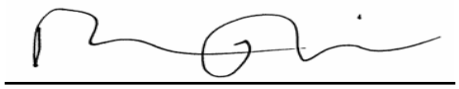
Please contact Client Services at 203.325.1371 with any questions regarding this report.

Sample ID	Client Sample ID	Matrix	Date Collected	Date Received
26G0459-01	IA-7 20260708	Indoor Ambient Air	07/08/2026	07/08/2026
26G0459-02	IA-8 20260708	Indoor Ambient Air	07/08/2026	07/08/2026
26G0459-03	IA-9 20260708	Indoor Ambient Air	07/08/2026	07/08/2026
26G0459-04	IA-10 20260708	Indoor Ambient Air	07/08/2026	07/08/2026
26G0459-05	OA-2 20260708	Outdoor Ambient Air	07/08/2026	07/08/2026

General Notes for Project (SDG) No.: 26G0459

1. 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.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. ALS' liability for the above data is limited to the dollar value paid to ALS for the referenced project.
4. This report shall not be reproduced without the written approval of ALS, Inc.
5. All analyses conducted met method or Laboratory SOP requirements. See the Sample and Data Qualifiers Section for further information.
6. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
7. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by ALS.
8. Analyses conducted at ALS, Inc. Stratford, CT are indicated by NYDOH-NY10854, NJDEP-CT005, PADEP-68-04440, CTDPH-PH0840; those conducted at ALS, Inc., Richmond Hill, NY are indicated by NYDOH-NY12058, NJDEP-NY037, CTDPH-PH0837, NHDES-NH2097, MDDEP-375, PADEP-68-06231.

Approved By:



Dr. Pejman Ghaemi
Lead Technical Director - Queens

Date: 07/14/2026

Positive Hits Included in This Report

Excludes Subcontracted Analysis

Parameter	Result	Lab Qualifier	CLP Flag	MDL	RL	Units	Specific Method	Analyzed
26G0459-01 - IA-7 20260708								
1,2,4-Trimethylbenzene	2.6		D	0.16	0.47	ug/m³	EPA TO-15	07/10/26 20:33
1,3,5-Trimethylbenzene	0.80		D	0.072	0.47	ug/m³	EPA TO-15	07/10/26 20:33
^2,2,4-Trimethylpentane	0.67		D	0.22	0.22	ug/m³	EPA TO-15	07/10/26 20:33
2-Butanone	1.5		D	0.48	14	ug/m³	EPA TO-15	07/10/26 20:33
Acetone	18		D	1.2	11	ug/m³	EPA TO-15	07/10/26 20:33
Benzene	3.6		D	0.11	0.31	ug/m³	EPA TO-15	07/10/26 20:33
Bromodichloromethane	0.70		D	0.19	0.64	ug/m³	EPA TO-15	07/10/26 20:33
Chloroform	9.7		D	0.13	0.47	ug/m³	EPA TO-15	07/10/26 20:33
Chloromethane	1.2		D	0.14	0.20	ug/m³	EPA TO-15	07/10/26 20:33
Cyclohexane	1.1		D	0.23	0.33	ug/m³	EPA TO-15	07/10/26 20:33
Dichlorodifluoromethane	1.6		D	0.26	0.47	ug/m³	EPA TO-15	07/10/26 20:33
Ethyl acetate	1.4	TO-CCV	D	0.21	17	ug/m³	EPA TO-15	07/10/26 20:33
Ethyl Benzene	0.95		D	0.14	0.42	ug/m³	EPA TO-15	07/10/26 20:33
Isopropanol	16		D	0.056	1.4	ug/m³	EPA TO-15	07/10/26 20:33
Methyl Methacrylate	0.39		D	0.24	0.39	ug/m³	EPA TO-15	07/10/26 20:33
Methylene chloride	0.40		D	0.11	2.0	ug/m³	EPA TO-15	07/10/26 20:33
^Naphthalene	1.2		D	0.35	5.0	ug/m³	EPA TO-15	07/10/26 20:33
o-Xylene	1.2		D	0.15	0.42	ug/m³	EPA TO-15	07/10/26 20:33
p- & m- Xylenes	4.6	TO-MPX	D	0.21	0.83	ug/m³	EPA TO-15	07/10/26 20:33
p-Ethyltoluene	1.4		D	0.16	0.47	ug/m³	EPA TO-15	07/10/26 20:33
Tetrachloroethylene	3.2		D	0.15	0.65	ug/m³	EPA TO-15	07/10/26 20:33
Tetrahydrofuran	0.42		D	0.095	0.56	ug/m³	EPA TO-15	07/10/26 20:33
Toluene	1.9		D	0.14	0.36	ug/m³	EPA TO-15	07/10/26 20:33
Trichlorofluoromethane (Freon 11)	1.1		D	0.19	0.54	ug/m³	EPA TO-15	07/10/26 20:33
26G0459-02 - IA-8 20260708								
1,2,4-Trimethylbenzene	3.3		D	0.15	0.46	ug/m³	EPA TO-15	07/10/26 21:20
1,3,5-Trimethylbenzene	0.97		D	0.071	0.46	ug/m³	EPA TO-15	07/10/26 21:20
1,3-Butadiene	0.25		D	0.064	0.62	ug/m³	EPA TO-15	07/10/26 21:20
2-Butanone	1.2		D	0.47	14	ug/m³	EPA TO-15	07/10/26 21:20
Acetone	25		D	1.2	11	ug/m³	EPA TO-15	07/10/26 21:20
Benzene	0.90		D	0.11	0.30	ug/m³	EPA TO-15	07/10/26 21:20
Chloroform	2.2		D	0.13	0.46	ug/m³	EPA TO-15	07/10/26 21:20
Chloromethane	0.97		D	0.14	0.19	ug/m³	EPA TO-15	07/10/26 21:20
Cyclohexane	0.65		D	0.23	0.32	ug/m³	EPA TO-15	07/10/26 21:20
Dichlorodifluoromethane	1.6		D	0.26	0.46	ug/m³	EPA TO-15	07/10/26 21:20
Ethyl acetate	1.2	TO-CCV	D	0.20	17	ug/m³	EPA TO-15	07/10/26 21:20
Ethyl Benzene	0.94		D	0.14	0.41	ug/m³	EPA TO-15	07/10/26 21:20
Isopropanol	15		D	0.055	1.4	ug/m³	EPA TO-15	07/10/26 21:20
Methyl Methacrylate	0.58		D	0.24	0.38	ug/m³	EPA TO-15	07/10/26 21:20
Methylene chloride	0.33		D	0.11	2.0	ug/m³	EPA TO-15	07/10/26 21:20
^Naphthalene	0.93		D	0.34	4.9	ug/m³	EPA TO-15	07/10/26 21:20
n-Hexane	0.40		D	0.10	0.33	ug/m³	EPA TO-15	07/10/26 21:20
o-Xylene	1.2		D	0.14	0.41	ug/m³	EPA TO-15	07/10/26 21:20
p- & m- Xylenes	4.9	TO-MPX	D	0.21	0.81	ug/m³	EPA TO-15	07/10/26 21:20
p-Ethyltoluene	1.9		D	0.16	0.46	ug/m³	EPA TO-15	07/10/26 21:20

Positive Hits Included in This Report

Excludes Subcontracted Analysis

(Continued)

Parameter	Result	Lab Qualifier	CLP Flag	MDL	RL	Units	Specific Method	Analyzed
26G0459-02 - IA-8 20260708								
Tetrachloroethylene	2.8		D	0.15	0.64	ug/m³	EPA TO-15	07/10/26 21:20
Toluene	1.7		D	0.14	0.35	ug/m³	EPA TO-15	07/10/26 21:20
Trichlorofluoromethane (Freon 11)	1.1		D	0.19	0.53	ug/m³	EPA TO-15	07/10/26 21:20
26G0459-03 - IA-9 20260708								
1,2,4-Trimethylbenzene	6.3		D	0.16	0.46	ug/m³	EPA TO-15	07/10/26 22:07
1,3,5-Trimethylbenzene	2.0		D	0.071	0.46	ug/m³	EPA TO-15	07/10/26 22:07
1,3-Butadiene	0.85		D	0.064	0.62	ug/m³	EPA TO-15	07/10/26 22:07
^2,2,4-Trimethylpentane	0.44		D	0.22	0.22	ug/m³	EPA TO-15	07/10/26 22:07
2-Butanone	4.2		D	0.47	14	ug/m³	EPA TO-15	07/10/26 22:07
4-Methyl-2-pentanone	0.42		D	0.17	0.38	ug/m³	EPA TO-15	07/10/26 22:07
Acetone	120		D	2.2	21	ug/m³	EPA TO-15	07/13/26 16:43
Benzene	0.93		D	0.11	0.30	ug/m³	EPA TO-15	07/10/26 22:07
Carbon disulfide	0.50		D	0.075	0.29	ug/m³	EPA TO-15	07/10/26 22:07
Chloroform	4.4		D	0.13	0.46	ug/m³	EPA TO-15	07/10/26 22:07
Chloromethane	1.3		D	0.14	0.19	ug/m³	EPA TO-15	07/10/26 22:07
Cyclohexane	3.5		D	0.23	0.32	ug/m³	EPA TO-15	07/10/26 22:07
Dichlorodifluoromethane	1.7		D	0.26	0.46	ug/m³	EPA TO-15	07/10/26 22:07
Ethyl acetate	2.7	TO-CCV	D	0.20	17	ug/m³	EPA TO-15	07/10/26 22:07
Ethyl Benzene	5.5		D	0.14	0.41	ug/m³	EPA TO-15	07/10/26 22:07
Isopropanol	48		D	0.055	1.4	ug/m³	EPA TO-15	07/10/26 22:07
Methylene chloride	0.52		D	0.11	2.0	ug/m³	EPA TO-15	07/10/26 22:07
^Naphthalene	0.89		D	0.34	4.9	ug/m³	EPA TO-15	07/10/26 22:07
n-Heptane	1.2		D	0.15	0.38	ug/m³	EPA TO-15	07/10/26 22:07
n-Hexane	0.63		D	0.10	0.33	ug/m³	EPA TO-15	07/10/26 22:07
o-Xylene	5.4		D	0.14	0.41	ug/m³	EPA TO-15	07/10/26 22:07
p- & m- Xylenes	31	TO-MPX	D	0.21	0.82	ug/m³	EPA TO-15	07/10/26 22:07
p-Ethyltoluene	3.6		D	0.16	0.46	ug/m³	EPA TO-15	07/10/26 22:07
Styrene	0.92		D	0.12	0.40	ug/m³	EPA TO-15	07/10/26 22:07
Tetrachloroethylene	4.3		D	0.15	0.64	ug/m³	EPA TO-15	07/10/26 22:07
Toluene	4.1		D	0.14	0.35	ug/m³	EPA TO-15	07/10/26 22:07
Trichloroethylene	1.6		D	0.15	0.15	ug/m³	EPA TO-15	07/10/26 22:07
Trichlorofluoromethane (Freon 11)	1.1		D	0.19	0.53	ug/m³	EPA TO-15	07/10/26 22:07
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1,2,4-Trimethylbenzene	6.3		D	0.16	0.46	ug/m³	EPA TO-15	07/10/26 22:54
1,3,5-Trimethylbenzene	2.2		D	0.071	0.46	ug/m³	EPA TO-15	07/10/26 22:54
1,3-Butadiene	4.8		D	0.065	0.63	ug/m³	EPA TO-15	07/10/26 22:54
^2,2,4-Trimethylpentane	0.75		D	0.22	0.22	ug/m³	EPA TO-15	07/10/26 22:54
2-Butanone	4.9		D	0.47	14	ug/m³	EPA TO-15	07/10/26 22:54
2-Hexanone	0.43		D	0.21	0.77	ug/m³	EPA TO-15	07/10/26 22:54
Acetone	56		D	1.2	11	ug/m³	EPA TO-15	07/10/26 22:54
Benzene	0.66		D	0.11	0.30	ug/m³	EPA TO-15	07/10/26 22:54
Chloroform	6.5		D	0.13	0.46	ug/m³	EPA TO-15	07/10/26 22:54
Chloromethane	1.1		D	0.14	0.19	ug/m³	EPA TO-15	07/10/26 22:54
Cyclohexane	2.7		D	0.23	0.32	ug/m³	EPA TO-15	07/10/26 22:54

Positive Hits Included in This Report

Excludes Subcontracted Analysis

(Continued)

Parameter	Result	Lab Qualifier	CLP Flag	MDL	RL	Units	Specific Method	Analyzed
26G0459-04 - IA-10 20260708								
Dichlorodifluoromethane	1.6		D	0.26	0.47	ug/m³	EPA TO-15	07/10/26 22:54
Ethyl acetate	2.6	TO-CCV	D	0.20	17	ug/m³	EPA TO-15	07/10/26 22:54
Ethyl Benzene	9.2		D	0.14	0.41	ug/m³	EPA TO-15	07/10/26 22:54
Isopropanol	20		D	0.056	1.4	ug/m³	EPA TO-15	07/10/26 22:54
Methyl Methacrylate	0.46		D	0.24	0.39	ug/m³	EPA TO-15	07/10/26 22:54
^Naphthalene	1.4		D	0.34	4.9	ug/m³	EPA TO-15	07/10/26 22:54
n-Heptane	0.74		D	0.15	0.39	ug/m³	EPA TO-15	07/10/26 22:54
n-Hexane	0.57		D	0.10	0.33	ug/m³	EPA TO-15	07/10/26 22:54
o-Xylene	9.0		D	0.14	0.41	ug/m³	EPA TO-15	07/10/26 22:54
p- & m- Xylenes	71	TO-MPX	D	0.21	0.82	ug/m³	EPA TO-15	07/10/26 22:54
p-Ethyltoluene	3.4		D	0.16	0.46	ug/m³	EPA TO-15	07/10/26 22:54
Tetrachloroethylene	2.7		D	0.15	0.64	ug/m³	EPA TO-15	07/10/26 22:54
Toluene	2.8		D	0.14	0.36	ug/m³	EPA TO-15	07/10/26 22:54
Trichloroethylene	1.3		D	0.15	0.15	ug/m³	EPA TO-15	07/10/26 22:54
Trichlorofluoromethane (Freon 11)	1.1		D	0.19	0.53	ug/m³	EPA TO-15	07/10/26 22:54
26G0459-05 - OA-2 20260708								
1,2,4-Trimethylbenzene	0.59		D	0.17	0.50	ug/m³	EPA TO-15	07/10/26 23:41
^2,2,4-Trimethylpentane	0.47		D	0.24	0.24	ug/m³	EPA TO-15	07/10/26 23:41
2-Butanone	2.4		D	0.50	15	ug/m³	EPA TO-15	07/10/26 23:41
2-Hexanone	0.45		D	0.22	0.83	ug/m³	EPA TO-15	07/10/26 23:41
4-Methyl-2-pentanone	1.5		D	0.18	0.41	ug/m³	EPA TO-15	07/10/26 23:41
Acetone	21		D	1.2	12	ug/m³	EPA TO-15	07/10/26 23:41
Benzene	0.39		D	0.12	0.32	ug/m³	EPA TO-15	07/10/26 23:41
Chloromethane	0.96		D	0.15	0.21	ug/m³	EPA TO-15	07/10/26 23:41
Cyclohexane	0.62		D	0.24	0.35	ug/m³	EPA TO-15	07/10/26 23:41
Dichlorodifluoromethane	1.6		D	0.28	0.50	ug/m³	EPA TO-15	07/10/26 23:41
Ethyl acetate	1.3	TO-CCV	D	0.22	18	ug/m³	EPA TO-15	07/10/26 23:41
Isopropanol	5.7		D	0.059	1.5	ug/m³	EPA TO-15	07/10/26 23:41
Methylene chloride	0.38		D	0.12	2.1	ug/m³	EPA TO-15	07/10/26 23:41
^Naphthalene	1.9		D	0.36	5.3	ug/m³	EPA TO-15	07/10/26 23:41
n-Hexane	0.35		D	0.11	0.35	ug/m³	EPA TO-15	07/10/26 23:41
p- & m- Xylenes	1.4	TO-MPX	D	0.22	0.87	ug/m³	EPA TO-15	07/10/26 23:41
p-Ethyltoluene	0.69		D	0.17	0.50	ug/m³	EPA TO-15	07/10/26 23:41
Propylene	0.76	TO-CCV, TO-LCS-L	D	0.099	0.17	ug/m³	EPA TO-15	07/10/26 23:41
Tetrachloroethylene	2.0		D	0.16	0.68	ug/m³	EPA TO-15	07/10/26 23:41
Toluene	1.3		D	0.15	0.38	ug/m³	EPA TO-15	07/10/26 23:41
Trichlorofluoromethane (Freon 11)	1.2		D	0.20	0.57	ug/m³	EPA TO-15	07/10/26 23:41

Client:	Hydro Tech Environmental	**Sample ID:**	**26G0459-01**
Client Project:	152 Graham Avenue Brooklyn, NY 240052	**Date Received:**	07/08/2026
Client Sample ID:	IA-7 20260708	**Collection Date/Time:**	7/8/26 14:02

Lab ID:	**26G0459-01**	**Laboratory:**	ALS Environmental - Queens
Analysis:	**Volatile Organic Compounds in Air by GC/MS**	**Matrix:**	Indoor Ambient Air
Prep Method:	Sample Prepared by Method: EPA TO15 PREP		

Parameter	Result	Lab Qualifier	CLP Flag	MDL	RL	Dilution	Units	Reference Method	Extracted	Analyzed Date	By
1,1,1,2-Tetrachloroethane	ND		U	0.20	0.66	0.956	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 20:33	YR
1,1,1-Trichloroethane	ND		U	0.18	0.52	0.956	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 20:33	YR
1,1,2,2-Tetrachloroethane	ND		U	0.19	0.66	0.956	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 20:33	YR
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		U	0.27	0.73	0.956	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 20:33	YR
1,1,2-Trichloroethane	ND		U	0.19	0.52	0.956	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 20:33	YR
1,1-Dichloroethane	ND		U	0.16	0.39	0.956	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 20:33	YR
1,1-Dichloroethylene	ND		U	0.16	0.19	0.956	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 20:33	YR
1,2,4-Trichlorobenzene	ND		U	0.27	35	0.956	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 20:33	YR
1,2,4-Trimethylbenzene	**2.6**		D	0.16	0.47	0.956	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 20:33	YR
1,2-Dibromoethane	ND		U	0.23	0.73	0.956	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 20:33	YR
1,2-Dichlorobenzene	ND		U	0.18	0.57	0.956	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 20:33	YR
1,2-Dichloroethane	ND		U	0.18	0.39	0.956	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 20:33	YR
1,2-Dichloropropane	ND		U	0.15	0.44	0.956	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 20:33	YR
1,2-Dichlorotetrafluoroethane	ND		U	0.34	0.67	0.956	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 20:33	YR
1,3,5-Trimethylbenzene	**0.80**		D	0.072	0.47	0.956	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 20:33	YR
1,3-Butadiene	ND		U	0.066	0.63	0.956	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 20:33	YR
1,3-Dichlorobenzene	ND		U	0.16	0.57	0.956	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 20:33	YR
1,3-Dichloropropane	ND		U	0.14	0.44	0.956	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 20:33	YR
1,4-Dichlorobenzene	ND		U	0.14	0.57	0.956	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 20:33	YR
1,4-Dioxane	ND		U	0.36	1.7	0.956	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 20:33	YR
^2,2,4-Trimethylpentane	**0.67**		D	0.22	0.22	0.956	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 20:33	YR
2-Butanone	**1.5**		D	0.48	14	0.956	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 20:33	YR
2-Hexanone	ND		U	0.21	0.78	0.956	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 20:33	YR
3-Chloropropene	ND		U	0.13	1.5	0.956	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 20:33	YR
4-Methyl-2-pentanone	ND		U	0.17	0.39	0.956	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 20:33	YR
Acetone	**18**		D	1.2	11	0.956	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 20:33	YR
Acrylonitrile	ND		U	2.0	10	0.956	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 20:33	YR
Benzene	**3.6**		D	0.11	0.31	0.956	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 20:33	YR
Benzyl chloride	ND		U	0.15	12	0.956	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 20:33	YR
Bromodichloromethane	**0.70**		D	0.19	0.64	0.956	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 20:33	YR
Bromoform	ND		U	0.42	0.99	0.956	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 20:33	YR
Bromomethane	ND		U	0.16	0.37	0.956	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 20:33	YR
Carbon disulfide	ND		U	0.077	0.30	0.956	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 20:33	YR
Carbon tetrachloride	ND		U	0.18	0.18	0.956	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 20:33	YR
Chlorobenzene	ND		U	0.17	0.44	0.956	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 20:33	YR
Chloroethane	ND		U	0.14	0.25	0.956	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 20:33	YR
Chloroform	**9.7**		D	0.13	0.47	0.956	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 20:33	YR
Chloromethane	**1.2**		D	0.14	0.20	0.956	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 20:33	YR
cis-1,2-Dichloroethylene	ND		U	0.097	0.19	0.956	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 20:33	YR
cis-1,3-Dichloropropylene	ND		U	0.17	0.43	0.956	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 20:33	YR
Cyclohexane	**1.1**		D	0.23	0.33	0.956	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 20:33	YR
Dibromochloromethane	ND		U	0.33	0.81	0.956	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 20:33	YR
Dichlorodifluoromethane	**1.6**		D	0.26	0.47	0.956	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 20:33	YR
Ethyl acetate	**1.4**	TO-CCV	D	0.21	17	0.956	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 20:33	YR

Client:	Hydro Tech Environmental	**Sample ID:**	**26G0459-01**
Client Project:	152 Graham Avenue Brooklyn, NY 240052	**Date Received:**	07/08/2026
Client Sample ID:	IA-7 20260708	**Collection Date/Time:**	7/8/26 14:02

Lab ID:	**26G0459-01**	**Laboratory:**	ALS Environmental - Queens
Analysis:	**Volatile Organic Compounds in Air by GC/MS**	**Matrix:**	Indoor Ambient Air
Prep Method:	Sample Prepared by Method: EPA TO15 PREP		

Parameter	Result	Lab Qualifier	CLP Flag	MDL	RL	Dilution	Units	Reference Method	Extracted	Analyzed Date	By
Ethyl Benzene	**0.95**		D	0.14	0.42	0.956	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 20:33	YR
Hexachlorobutadiene	ND		U	0.39	1.0	0.956	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 20:33	YR
Isopropanol	**16**		D	0.056	1.4	0.956	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 20:33	YR
Methyl Methacrylate	**0.39**		D	0.24	0.39	0.956	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 20:33	YR
Methyl tert-butyl ether (MTBE)	ND		U	0.11	0.34	0.956	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 20:33	YR
Methylene chloride	**0.40**		D	0.11	2.0	0.956	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 20:33	YR
^Naphthalene	**1.2**		D	0.35	5.0	0.956	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 20:33	YR
n-Heptane	ND		U	0.15	0.39	0.956	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 20:33	YR
n-Hexane	ND		U	0.11	0.34	0.956	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 20:33	YR
o-Xylene	**1.2**		D	0.15	0.42	0.956	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 20:33	YR
p- & m- Xylenes	**4.6**	TO-MPX	D	0.21	0.83	0.956	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 20:33	YR
p-Ethyltoluene	**1.4**		D	0.16	0.47	0.956	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 20:33	YR
Propylene	ND	TO-CCV, TO-LCS-L	U	0.094	0.16	0.956	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 20:33	YR
Styrene	ND		U	0.13	0.41	0.956	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 20:33	YR
Tetrachloroethylene	**3.2**		D	0.15	0.65	0.956	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 20:33	YR
Tetrahydrofuran	**0.42**		D	0.095	0.56	0.956	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 20:33	YR
Toluene	**1.9**		D	0.14	0.36	0.956	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 20:33	YR
trans-1,2-Dichloroethylene	ND		U	0.091	0.38	0.956	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 20:33	YR
trans-1,3-Dichloropropylene	ND		U	0.17	0.43	0.956	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 20:33	YR
Trichloroethylene	ND		U	0.15	0.15	0.956	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 20:33	YR
Trichlorofluoromethane (Freon 11)	**1.1**		D	0.19	0.54	0.956	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 20:33	YR
Vinyl acetate	ND	TO-LCS-L	U	0.17	0.34	0.956	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 20:33	YR
Vinyl bromide	ND		U	0.15	0.42	0.956	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 20:33	YR
Vinyl Chloride	ND		U	0.098	0.12	0.956	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 20:33	YR

Client:	Hydro Tech Environmental	**Sample ID:**	**26G0459-02**
Client Project:	152 Graham Avenue Brooklyn, NY 240052	**Date Received:**	07/08/2026
Client Sample ID:	IA-8 20260708	**Collection Date/Time:**	7/8/26 12:27

Lab ID:	**26G0459-02**	**Laboratory:**	ALS Environmental - Queens
Analysis:	**Volatile Organic Compounds in Air by GC/MS**	**Matrix:**	Indoor Ambient Air
Prep Method:	Sample Prepared by Method: EPA TO15 PREP		

Parameter	Result	Lab Qualifier	CLP Flag	MDL	RL	Dilution	Units	Reference Method	Extracted	Analyzed Date	By
1,1,1,2-Tetrachloroethane	ND		U	0.20	0.64	0.938	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 21:20	YR
1,1,1-Trichloroethane	ND		U	0.18	0.51	0.938	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 21:20	YR
1,1,2,2-Tetrachloroethane	ND		U	0.18	0.64	0.938	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 21:20	YR
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		U	0.26	0.72	0.938	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 21:20	YR
1,1,2-Trichloroethane	ND		U	0.18	0.51	0.938	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 21:20	YR

Client:	Hydro Tech Environmental	**Sample ID:**	**26G0459-02**
Client Project:	152 Graham Avenue Brooklyn, NY 240052	**Date Received:**	07/08/2026
Client Sample ID:	IA-8 20260708	**Collection Date/Time:**	7/8/26 12:27

Lab ID:	**26G0459-02**	**Laboratory:**	ALS Environmental - Queens
Analysis:	**Volatile Organic Compounds in Air by GC/MS**	**Matrix:**	Indoor Ambient Air
Prep Method:	Sample Prepared by Method: EPA TO15 PREP		

Parameter	Result	Lab Qualifier	CLP Flag	MDL	RL	Dilution	Units	Reference Method	Extracted	Analyzed Date	By
1,1-Dichloroethane	ND		U	0.15	0.38	0.938	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 21:20	YR
1,1-Dichloroethylene	ND		U	0.16	0.19	0.938	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 21:20	YR
1,2,4-Trichlorobenzene	ND		U	0.27	35	0.938	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 21:20	YR
1,2,4-Trimethylbenzene	**3.3**		D	0.15	0.46	0.938	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 21:20	YR
1,2-Dibromoethane	ND		U	0.23	0.72	0.938	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 21:20	YR
1,2-Dichlorobenzene	ND		U	0.17	0.56	0.938	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 21:20	YR
1,2-Dichloroethane	ND		U	0.17	0.38	0.938	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 21:20	YR
1,2-Dichloropropane	ND		U	0.15	0.43	0.938	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 21:20	YR
1,2-Dichlorotetrafluoroethane	ND		U	0.33	0.66	0.938	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 21:20	YR
1,3,5-Trimethylbenzene	**0.97**		D	0.071	0.46	0.938	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 21:20	YR
1,3-Butadiene	**0.25**		D	0.064	0.62	0.938	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 21:20	YR
1,3-Dichlorobenzene	ND		U	0.16	0.56	0.938	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 21:20	YR
1,3-Dichloropropane	ND		U	0.13	0.43	0.938	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 21:20	YR
1,4-Dichlorobenzene	ND		U	0.13	0.56	0.938	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 21:20	YR
1,4-Dioxane	ND		U	0.35	1.7	0.938	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 21:20	YR
^2,2,4-Trimethylpentane	ND		U	0.22	0.22	0.938	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 21:20	YR
2-Butanone	**1.2**		D	0.47	14	0.938	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 21:20	YR
2-Hexanone	ND		U	0.21	0.77	0.938	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 21:20	YR
3-Chloropropene	ND		U	0.12	1.5	0.938	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 21:20	YR
4-Methyl-2-pentanone	ND		U	0.17	0.38	0.938	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 21:20	YR
Acetone	**25**		D	1.2	11	0.938	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 21:20	YR
Acrylonitrile	ND		U	1.9	10	0.938	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 21:20	YR
Benzene	**0.90**		D	0.11	0.30	0.938	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 21:20	YR
Benzyl chloride	ND		U	0.15	12	0.938	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 21:20	YR
Bromodichloromethane	ND		U	0.19	0.63	0.938	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 21:20	YR
Bromoform	ND		U	0.41	0.97	0.938	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 21:20	YR
Bromomethane	ND		U	0.16	0.36	0.938	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 21:20	YR
Carbon disulfide	ND		U	0.075	0.29	0.938	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 21:20	YR
Carbon tetrachloride	ND		U	0.18	0.18	0.938	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 21:20	YR
Chlorobenzene	ND		U	0.16	0.43	0.938	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 21:20	YR
Chloroethane	ND		U	0.14	0.25	0.938	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 21:20	YR
Chloroform	**2.2**		D	0.13	0.46	0.938	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 21:20	YR
Chloromethane	**0.97**		D	0.14	0.19	0.938	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 21:20	YR
cis-1,2-Dichloroethylene	ND		U	0.096	0.19	0.938	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 21:20	YR
cis-1,3-Dichloropropylene	ND		U	0.17	0.43	0.938	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 21:20	YR
Cyclohexane	**0.65**		D	0.23	0.32	0.938	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 21:20	YR
Dibromochloromethane	ND		U	0.32	0.80	0.938	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 21:20	YR
Dichlorodifluoromethane	**1.6**		D	0.26	0.46	0.938	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 21:20	YR
Ethyl acetate	**1.2**	TO-CCV	D	0.20	17	0.938	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 21:20	YR
Ethyl Benzene	**0.94**		D	0.14	0.41	0.938	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 21:20	YR
Hexachlorobutadiene	ND		U	0.38	1.0	0.938	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 21:20	YR
Isopropanol	**15**		D	0.055	1.4	0.938	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 21:20	YR
Methyl Methacrylate	**0.58**		D	0.24	0.38	0.938	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 21:20	YR
Methyl tert-butyl ether (MTBE)	ND		U	0.10	0.34	0.938	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 21:20	YR
Methylene chloride	**0.33**		D	0.11	2.0	0.938	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 21:20	YR
^Naphthalene	**0.93**		D	0.34	4.9	0.938	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 21:20	YR

Client:	Hydro Tech Environmental	**Sample ID:**	**26G0459-02**
Client Project:	152 Graham Avenue Brooklyn, NY 240052	**Date Received:**	07/08/2026
Client Sample ID:	IA-8 20260708	**Collection Date/Time:**	7/8/26 12:27

Lab ID:	**26G0459-02**	**Laboratory:**	ALS Environmental - Queens
Analysis:	**Volatile Organic Compounds in Air by GC/MS**	**Matrix:**	Indoor Ambient Air
Prep Method:	Sample Prepared by Method: EPA TO15 PREP		

Parameter	Result	Lab Qualifier	CLP Flag	MDL	RL	Dilution	Units	Reference Method	Extracted	Analyzed Date	By
n-Heptane	ND		U	0.15	0.38	0.938	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 21:20	YR
n-Hexane	**0.40**		D	0.10	0.33	0.938	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 21:20	YR
o-Xylene	**1.2**		D	0.14	0.41	0.938	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 21:20	YR
p- & m- Xylenes	**4.9**	TO-MPX	D	0.21	0.81	0.938	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 21:20	YR
p-Ethyltoluene	**1.9**		D	0.16	0.46	0.938	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 21:20	YR
Propylene	ND	TO-CCV, TO-LCS-L	U	0.092	0.16	0.938	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 21:20	YR
Styrene	ND		U	0.12	0.40	0.938	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 21:20	YR
Tetrachloroethylene	**2.8**		D	0.15	0.64	0.938	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 21:20	YR
Tetrahydrofuran	ND		U	0.093	0.55	0.938	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 21:20	YR
Toluene	**1.7**		D	0.14	0.35	0.938	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 21:20	YR
trans-1,2-Dichloroethylene	ND		U	0.089	0.37	0.938	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 21:20	YR
trans-1,3-Dichloropropylene	ND		U	0.17	0.43	0.938	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 21:20	YR
Trichloroethylene	ND		U	0.15	0.15	0.938	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 21:20	YR
Trichlorofluoromethane (Freon 11)	**1.1**		D	0.19	0.53	0.938	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 21:20	YR
Vinyl acetate	ND	TO-LCS-L	U	0.17	0.33	0.938	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 21:20	YR
Vinyl bromide	ND		U	0.14	0.41	0.938	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 21:20	YR
Vinyl Chloride	ND		U	0.096	0.12	0.938	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 21:20	YR

Client:	Hydro Tech Environmental	**Sample ID:**	**26G0459-03**
Client Project:	152 Graham Avenue Brooklyn, NY 240052	**Date Received:**	07/08/2026
Client Sample ID:	IA-9 20260708	**Collection Date/Time:**	7/8/26 14:27

Lab ID:	**26G0459-03**	**Laboratory:**	ALS Environmental - Queens
Analysis:	**Volatile Organic Compounds in Air by GC/MS**	**Matrix:**	Indoor Ambient Air
Prep Method:	Sample Prepared by Method: EPA TO15 PREP		

Parameter	Result	Lab Qualifier	CLP Flag	MDL	RL	Dilution	Units	Reference Method	Extracted	Analyzed Date	By
1,1,1,2-Tetrachloroethane	ND		U	0.20	0.64	0.939	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 22:07	YR
1,1,1-Trichloroethane	ND		U	0.18	0.51	0.939	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 22:07	YR
1,1,2,2-Tetrachloroethane	ND		U	0.18	0.64	0.939	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 22:07	YR
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		U	0.26	0.72	0.939	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 22:07	YR
1,1,2-Trichloroethane	ND		U	0.18	0.51	0.939	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 22:07	YR
1,1-Dichloroethane	ND		U	0.15	0.38	0.939	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 22:07	YR
1,1-Dichloroethylene	ND		U	0.16	0.19	0.939	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 22:07	YR
1,2,4-Trichlorobenzene	ND		U	0.27	35	0.939	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 22:07	YR
1,2,4-Trimethylbenzene	**6.3**		D	0.16	0.46	0.939	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 22:07	YR
1,2-Dibromoethane	ND		U	0.23	0.72	0.939	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 22:07	YR
1,2-Dichlorobenzene	ND		U	0.17	0.56	0.939	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 22:07	YR
1,2-Dichloroethane	ND		U	0.17	0.38	0.939	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 22:07	YR

Client:	Hydro Tech Environmental	**Sample ID:**	**26G0459-03**
Client Project:	152 Graham Avenue Brooklyn, NY 240052	**Date Received:**	07/08/2026
Client Sample ID:	IA-9 20260708	**Collection Date/Time:**	7/8/26 14:27

Lab ID:	**26G0459-03**	**Laboratory:**	ALS Environmental - Queens
Analysis:	**Volatile Organic Compounds in Air by GC/MS**	**Matrix:**	Indoor Ambient Air
Prep Method:	Sample Prepared by Method: EPA TO15 PREP		

Parameter	Result	Lab Qualifier	CLP Flag	MDL	RL	Dilution	Units	Reference Method	Extracted	Analyzed Date	By
1,2-Dichloropropane	ND		U	0.15	0.43	0.939	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 22:07	YR
1,2-Dichlorotetrafluoroethane	ND		U	0.33	0.66	0.939	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 22:07	YR
1,3,5-Trimethylbenzene	**2.0**		D	0.071	0.46	0.939	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 22:07	YR
1,3-Butadiene	**0.85**		D	0.064	0.62	0.939	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 22:07	YR
1,3-Dichlorobenzene	ND		U	0.16	0.56	0.939	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 22:07	YR
1,3-Dichloropropane	ND		U	0.13	0.43	0.939	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 22:07	YR
1,4-Dichlorobenzene	ND		U	0.13	0.56	0.939	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 22:07	YR
1,4-Dioxane	ND		U	0.35	1.7	0.939	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 22:07	YR
^2,2,4-Trimethylpentane	**0.44**		D	0.22	0.22	0.939	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 22:07	YR
2-Butanone	**4.2**		D	0.47	14	0.939	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 22:07	YR
2-Hexanone	ND		U	0.21	0.77	0.939	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 22:07	YR
3-Chloropropene	ND		U	0.12	1.5	0.939	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 22:07	YR
4-Methyl-2-pentanone	**0.42**		D	0.17	0.38	0.939	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 22:07	YR
Acetone	**120**		D	2.2	21	1.763	ug/m³	EPA TO-15	7/13/26 8:00	7/13/26 16:43	YR
Acrylonitrile	ND		U	1.9	10	0.939	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 22:07	YR
Benzene	**0.93**		D	0.11	0.30	0.939	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 22:07	YR
Benzyl chloride	ND		U	0.15	12	0.939	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 22:07	YR
Bromodichloromethane	ND		U	0.19	0.63	0.939	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 22:07	YR
Bromoform	ND		U	0.41	0.97	0.939	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 22:07	YR
Bromomethane	ND		U	0.16	0.36	0.939	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 22:07	YR
Carbon disulfide	**0.50**		D	0.075	0.29	0.939	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 22:07	YR
Carbon tetrachloride	ND		U	0.18	0.18	0.939	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 22:07	YR
Chlorobenzene	ND		U	0.17	0.43	0.939	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 22:07	YR
Chloroethane	ND		U	0.14	0.25	0.939	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 22:07	YR
Chloroform	**4.4**		D	0.13	0.46	0.939	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 22:07	YR
Chloromethane	**1.3**		D	0.14	0.19	0.939	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 22:07	YR
cis-1,2-Dichloroethylene	ND		U	0.096	0.19	0.939	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 22:07	YR
cis-1,3-Dichloropropylene	ND		U	0.17	0.43	0.939	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 22:07	YR
Cyclohexane	**3.5**		D	0.23	0.32	0.939	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 22:07	YR
Dibromochloromethane	ND		U	0.32	0.80	0.939	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 22:07	YR
Dichlorodifluoromethane	**1.7**		D	0.26	0.46	0.939	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 22:07	YR
Ethyl acetate	**2.7**	TO-CCV	D	0.20	17	0.939	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 22:07	YR
Ethyl Benzene	**5.5**		D	0.14	0.41	0.939	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 22:07	YR
Hexachlorobutadiene	ND		U	0.38	1.0	0.939	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 22:07	YR
Isopropanol	**48**		D	0.055	1.4	0.939	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 22:07	YR
Methyl Methacrylate	ND		U	0.24	0.38	0.939	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 22:07	YR
Methyl tert-butyl ether (MTBE)	ND		U	0.10	0.34	0.939	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 22:07	YR
Methylene chloride	**0.52**		D	0.11	2.0	0.939	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 22:07	YR
^Naphthalene	**0.89**		D	0.34	4.9	0.939	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 22:07	YR
n-Heptane	**1.2**		D	0.15	0.38	0.939	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 22:07	YR
n-Hexane	**0.63**		D	0.10	0.33	0.939	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 22:07	YR
o-Xylene	**5.4**		D	0.14	0.41	0.939	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 22:07	YR
p- & m- Xylenes	**31**	TO-MPX	D	0.21	0.82	0.939	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 22:07	YR
p-Ethyltoluene	**3.6**		D	0.16	0.46	0.939	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 22:07	YR
Propylene	ND	TO-CCV, TO-LCS-L	U	0.092	0.16	0.939	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 22:07	YR

Client:	Hydro Tech Environmental	**Sample ID:**	**26G0459-03**
Client Project:	152 Graham Avenue Brooklyn, NY 240052	**Date Received:**	07/08/2026
Client Sample ID:	IA-9 20260708	**Collection Date/Time:**	7/8/26 14:27

Lab ID:	**26G0459-03**	**Laboratory:**	ALS Environmental - Queens
Analysis:	**Volatile Organic Compounds in Air by GC/MS**	**Matrix:**	Indoor Ambient Air
Prep Method:	Sample Prepared by Method: EPA TO15 PREP		

Parameter	Result	Lab Qualifier	CLP Flag	MDL	RL	Dilution	Units	Reference Method	Extracted	Analyzed Date	By
Styrene	**0.92**		D	0.12	0.40	0.939	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 22:07	YR
Tetrachloroethylene	**4.3**		D	0.15	0.64	0.939	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 22:07	YR
Tetrahydrofuran	ND		U	0.093	0.55	0.939	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 22:07	YR
Toluene	**4.1**		D	0.14	0.35	0.939	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 22:07	YR
trans-1,2-Dichloroethylene	ND		U	0.089	0.37	0.939	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 22:07	YR
trans-1,3-Dichloropropylene	ND		U	0.17	0.43	0.939	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 22:07	YR
Trichloroethylene	**1.6**		D	0.15	0.15	0.939	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 22:07	YR
Trichlorofluoromethane (Freon 11)	**1.1**		D	0.19	0.53	0.939	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 22:07	YR
Vinyl acetate	ND	TO-LCS-L	U	0.17	0.33	0.939	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 22:07	YR
Vinyl bromide	ND		U	0.14	0.41	0.939	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 22:07	YR
Vinyl Chloride	ND		U	0.096	0.12	0.939	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 22:07	YR

Client:	Hydro Tech Environmental	**Sample ID:**	**26G0459-04**
Client Project:	152 Graham Avenue Brooklyn, NY 240052	**Date Received:**	07/08/2026
Client Sample ID:	IA-10 20260708	**Collection Date/Time:**	7/8/26 14:23

Lab ID:	**26G0459-04**	**Laboratory:**	ALS Environmental - Queens
Analysis:	**Volatile Organic Compounds in Air by GC/MS**	**Matrix:**	Indoor Ambient Air
Prep Method:	Sample Prepared by Method: EPA TO15 PREP		

Parameter	Result	Lab Qualifier	CLP Flag	MDL	RL	Dilution	Units	Reference Method	Extracted	Analyzed Date	By
1,1,1,2-Tetrachloroethane	ND		U	0.20	0.65	0.944	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 22:54	YR
1,1,1-Trichloroethane	ND		U	0.18	0.52	0.944	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 22:54	YR
1,1,2,2-Tetrachloroethane	ND		U	0.18	0.65	0.944	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 22:54	YR
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		U	0.26	0.72	0.944	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 22:54	YR
1,1,2-Trichloroethane	ND		U	0.18	0.52	0.944	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 22:54	YR
1,1-Dichloroethane	ND		U	0.16	0.38	0.944	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 22:54	YR
1,1-Dichloroethylene	ND		U	0.16	0.19	0.944	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 22:54	YR
1,2,4-Trichlorobenzene	ND		U	0.27	35	0.944	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 22:54	YR
1,2,4-Trimethylbenzene	**6.3**		D	0.16	0.46	0.944	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 22:54	YR
1,2-Dibromoethane	ND		U	0.23	0.73	0.944	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 22:54	YR
1,2-Dichlorobenzene	ND		U	0.17	0.57	0.944	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 22:54	YR
1,2-Dichloroethane	ND		U	0.18	0.38	0.944	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 22:54	YR
1,2-Dichloropropane	ND		U	0.15	0.44	0.944	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 22:54	YR
1,2-Dichlorotetrafluoroethane	ND		U	0.34	0.66	0.944	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 22:54	YR
1,3,5-Trimethylbenzene	**2.2**		D	0.071	0.46	0.944	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 22:54	YR
1,3-Butadiene	**4.8**		D	0.065	0.63	0.944	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 22:54	YR
1,3-Dichlorobenzene	ND		U	0.16	0.57	0.944	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 22:54	YR
1,3-Dichloropropane	ND		U	0.14	0.44	0.944	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 22:54	YR
1,4-Dichlorobenzene	ND		U	0.14	0.57	0.944	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 22:54	YR

Client:	Hydro Tech Environmental	**Sample ID:**	**26G0459-04**
Client Project:	152 Graham Avenue Brooklyn, NY 240052	**Date Received:**	07/08/2026
Client Sample ID:	IA-10 20260708	**Collection Date/Time:**	7/8/26 14:23

Lab ID:	**26G0459-04**	**Laboratory:**	ALS Environmental - Queens
Analysis:	**Volatile Organic Compounds in Air by GC/MS**	**Matrix:**	Indoor Ambient Air
Prep Method:	Sample Prepared by Method: EPA TO15 PREP		

Parameter	Result	Lab Qualifier	CLP Flag	MDL	RL	Dilution	Units	Reference Method	Extracted	Analyzed Date	By
1,4-Dioxane	ND		U	0.36	1.7	0.944	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 22:54	YR
^2,2,4-Trimethylpentane	**0.75**		D	0.22	0.22	0.944	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 22:54	YR
2-Butanone	**4.9**		D	0.47	14	0.944	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 22:54	YR
2-Hexanone	**0.43**		D	0.21	0.77	0.944	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 22:54	YR
3-Chloropropene	ND		U	0.12	1.5	0.944	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 22:54	YR
4-Methyl-2-pentanone	ND		U	0.17	0.39	0.944	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 22:54	YR
Acetone	**56**		D	1.2	11	0.944	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 22:54	YR
Acrylonitrile	ND		U	2.0	10	0.944	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 22:54	YR
Benzene	**0.66**		D	0.11	0.30	0.944	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 22:54	YR
Benzyl chloride	ND		U	0.15	12	0.944	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 22:54	YR
Bromodichloromethane	ND		U	0.19	0.63	0.944	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 22:54	YR
Bromoform	ND		U	0.41	0.98	0.944	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 22:54	YR
Bromomethane	ND		U	0.16	0.37	0.944	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 22:54	YR
Carbon disulfide	ND		U	0.076	0.29	0.944	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 22:54	YR
Carbon tetrachloride	ND		U	0.18	0.18	0.944	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 22:54	YR
Chlorobenzene	ND		U	0.17	0.43	0.944	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 22:54	YR
Chloroethane	ND		U	0.14	0.25	0.944	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 22:54	YR
Chloroform	**6.5**		D	0.13	0.46	0.944	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 22:54	YR
Chloromethane	**1.1**		D	0.14	0.19	0.944	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 22:54	YR
cis-1,2-Dichloroethylene	ND		U	0.096	0.19	0.944	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 22:54	YR
cis-1,3-Dichloropropylene	ND		U	0.17	0.43	0.944	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 22:54	YR
Cyclohexane	**2.7**		D	0.23	0.32	0.944	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 22:54	YR
Dibromochloromethane	ND		U	0.33	0.80	0.944	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 22:54	YR
Dichlorodifluoromethane	**1.6**		D	0.26	0.47	0.944	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 22:54	YR
Ethyl acetate	**2.6**	TO-CCV	D	0.20	17	0.944	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 22:54	YR
Ethyl Benzene	**9.2**		D	0.14	0.41	0.944	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 22:54	YR
Hexachlorobutadiene	ND		U	0.38	1.0	0.944	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 22:54	YR
Isopropanol	**20**		D	0.056	1.4	0.944	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 22:54	YR
Methyl Methacrylate	**0.46**		D	0.24	0.39	0.944	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 22:54	YR
Methyl tert-butyl ether (MTBE)	ND		U	0.10	0.34	0.944	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 22:54	YR
Methylene chloride	ND		U	0.11	2.0	0.944	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 22:54	YR
^Naphthalene	**1.4**		D	0.34	4.9	0.944	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 22:54	YR
n-Heptane	**0.74**		D	0.15	0.39	0.944	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 22:54	YR
n-Hexane	**0.57**		D	0.10	0.33	0.944	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 22:54	YR
o-Xylene	**9.0**		D	0.14	0.41	0.944	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 22:54	YR
p- & m- Xylenes	**71**	TO-MPX	D	0.21	0.82	0.944	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 22:54	YR
p-Ethyltoluene	**3.4**		D	0.16	0.46	0.944	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 22:54	YR
Propylene	ND	TO-CCV, TO-LCS-L	U	0.093	0.16	0.944	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 22:54	YR
Styrene	ND		U	0.12	0.40	0.944	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 22:54	YR
Tetrachloroethylene	**2.7**		D	0.15	0.64	0.944	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 22:54	YR
Tetrahydrofuran	ND		U	0.094	0.56	0.944	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 22:54	YR
Toluene	**2.8**		D	0.14	0.36	0.944	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 22:54	YR
trans-1,2-Dichloroethylene	ND		U	0.090	0.37	0.944	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 22:54	YR
trans-1,3-Dichloropropylene	ND		U	0.17	0.43	0.944	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 22:54	YR
Trichloroethylene	**1.3**		D	0.15	0.15	0.944	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 22:54	YR

Client:	Hydro Tech Environmental	**Sample ID:**	**26G0459-04**
Client Project:	152 Graham Avenue Brooklyn, NY 240052	**Date Received:**	07/08/2026
Client Sample ID:	IA-10 20260708	**Collection Date/Time:**	7/8/26 14:23

Lab ID:	**26G0459-04**	**Laboratory:**	ALS Environmental - Queens
Analysis:	**Volatile Organic Compounds in Air by GC/MS**	**Matrix:**	Indoor Ambient Air
Prep Method:	Sample Prepared by Method: EPA TO15 PREP		

Parameter	Result	Lab Qualifier	CLP Flag	MDL	RL	Dilution	Units	Reference Method	Extracted	Analyzed Date	By
Trichlorofluoromethane (Freon 11)	**1.1**		D	0.19	0.53	0.944	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 22:54	YR
Vinyl acetate	ND	TO-LCS-L	U	0.17	0.33	0.944	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 22:54	YR
Vinyl bromide	ND		U	0.14	0.41	0.944	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 22:54	YR
Vinyl Chloride	ND		U	0.097	0.12	0.944	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 22:54	YR

Client:	Hydro Tech Environmental	**Sample ID:**	**26G0459-05**
Client Project:	152 Graham Avenue Brooklyn, NY 240052	**Date Received:**	07/08/2026
Client Sample ID:	OA-2 20260708	**Collection Date/Time:**	7/8/26 14:14

Lab ID:	**26G0459-05**	**Laboratory:**	ALS Environmental - Queens
Analysis:	**Volatile Organic Compounds in Air by GC/MS**	**Matrix:**	Outdoor Ambient Air
Prep Method:	Sample Prepared by Method: EPA TO15 PREP		

Parameter	Result	Lab Qualifier	CLP Flag	MDL	RL	Dilution	Units	Reference Method	Extracted	Analyzed Date	By
1,1,1,2-Tetrachloroethane	ND		U	0.21	0.69	1.007	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 23:41	YR
1,1,1-Trichloroethane	ND		U	0.19	0.55	1.007	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 23:41	YR
1,1,2,2-Tetrachloroethane	ND		U	0.20	0.69	1.007	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 23:41	YR
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		U	0.28	0.77	1.007	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 23:41	YR
1,1,2-Trichloroethane	ND		U	0.20	0.55	1.007	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 23:41	YR
1,1-Dichloroethane	ND		U	0.17	0.41	1.007	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 23:41	YR
1,1-Dichloroethylene	ND		U	0.17	0.20	1.007	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 23:41	YR
1,2,4-Trichlorobenzene	ND		U	0.29	37	1.007	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 23:41	YR
1,2,4-Trimethylbenzene	**0.59**		D	0.17	0.50	1.007	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 23:41	YR
1,2-Dibromoethane	ND		U	0.24	0.77	1.007	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 23:41	YR
1,2-Dichlorobenzene	ND		U	0.19	0.61	1.007	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 23:41	YR
1,2-Dichloroethane	ND		U	0.19	0.41	1.007	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 23:41	YR
1,2-Dichloropropane	ND		U	0.16	0.47	1.007	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 23:41	YR
1,2-Dichlorotetrafluoroethane	ND		U	0.36	0.70	1.007	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 23:41	YR
1,3,5-Trimethylbenzene	ND		U	0.076	0.50	1.007	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 23:41	YR
1,3-Butadiene	ND		U	0.069	0.67	1.007	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 23:41	YR
1,3-Dichlorobenzene	ND		U	0.17	0.61	1.007	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 23:41	YR
1,3-Dichloropropane	ND		U	0.14	0.47	1.007	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 23:41	YR
1,4-Dichlorobenzene	ND		U	0.14	0.61	1.007	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 23:41	YR
1,4-Dioxane	ND		U	0.38	1.8	1.007	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 23:41	YR
^2,2,4-Trimethylpentane	**0.47**		D	0.24	0.24	1.007	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 23:41	YR
2-Butanone	**2.4**		D	0.50	15	1.007	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 23:41	YR
2-Hexanone	**0.45**		D	0.22	0.83	1.007	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 23:41	YR
3-Chloropropene	ND		U	0.13	1.6	1.007	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 23:41	YR
4-Methyl-2-pentanone	**1.5**		D	0.18	0.41	1.007	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 23:41	YR
Acetone	**21**		D	1.2	12	1.007	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 23:41	YR

Client:	Hydro Tech Environmental	**Sample ID:**	**26G0459-05**
Client Project:	152 Graham Avenue Brooklyn, NY 240052	**Date Received:**	07/08/2026
Client Sample ID:	OA-2 20260708	**Collection Date/Time:**	7/8/26 14:14

Lab ID:	**26G0459-05**	**Laboratory:**	ALS Environmental - Queens
Analysis:	**Volatile Organic Compounds in Air by GC/MS**	**Matrix:**	Outdoor Ambient Air
Prep Method:	Sample Prepared by Method: EPA TO15 PREP		

Parameter	Result	Lab Qualifier	CLP Flag	MDL	RL	Dilution	Units	Reference Method	Extracted	Analyzed Date	By
Acrylonitrile	ND		U	2.1	11	1.007	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 23:41	YR
Benzene	**0.39**		D	0.12	0.32	1.007	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 23:41	YR
Benzyl chloride	ND		U	0.16	13	1.007	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 23:41	YR
Bromodichloromethane	ND		U	0.20	0.67	1.007	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 23:41	YR
Bromoform	ND		U	0.44	1.0	1.007	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 23:41	YR
Bromomethane	ND		U	0.17	0.39	1.007	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 23:41	YR
Carbon disulfide	ND		U	0.081	0.31	1.007	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 23:41	YR
Carbon tetrachloride	ND		U	0.19	0.19	1.007	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 23:41	YR
Chlorobenzene	ND		U	0.18	0.46	1.007	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 23:41	YR
Chloroethane	ND		U	0.15	0.27	1.007	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 23:41	YR
Chloroform	ND		U	0.14	0.49	1.007	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 23:41	YR
Chloromethane	**0.96**		D	0.15	0.21	1.007	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 23:41	YR
cis-1,2-Dichloroethylene	ND		U	0.10	0.20	1.007	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 23:41	YR
cis-1,3-Dichloropropylene	ND		U	0.18	0.46	1.007	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 23:41	YR
Cyclohexane	**0.62**		D	0.24	0.35	1.007	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 23:41	YR
Dibromochloromethane	ND		U	0.35	0.86	1.007	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 23:41	YR
Dichlorodifluoromethane	**1.6**		D	0.28	0.50	1.007	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 23:41	YR
Ethyl acetate	**1.3**	TO-CCV	D	0.22	18	1.007	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 23:41	YR
Ethyl Benzene	ND		U	0.15	0.44	1.007	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 23:41	YR
Hexachlorobutadiene	ND		U	0.41	1.1	1.007	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 23:41	YR
Isopropanol	**5.7**		D	0.059	1.5	1.007	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 23:41	YR
Methyl Methacrylate	ND		U	0.26	0.41	1.007	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 23:41	YR
Methyl tert-butyl ether (MTBE)	ND		U	0.11	0.36	1.007	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 23:41	YR
Methylene chloride	**0.38**		D	0.12	2.1	1.007	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 23:41	YR
^Naphthalene	**1.9**		D	0.36	5.3	1.007	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 23:41	YR
n-Heptane	ND		U	0.16	0.41	1.007	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 23:41	YR
n-Hexane	**0.35**		D	0.11	0.35	1.007	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 23:41	YR
o-Xylene	ND		U	0.15	0.44	1.007	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 23:41	YR
p- & m- Xylenes	**1.4**	TO-MPX	D	0.22	0.87	1.007	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 23:41	YR
p-Ethyltoluene	**0.69**		D	0.17	0.50	1.007	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 23:41	YR
Propylene	**0.76**	TO-CCV, TO-LCS-L	D	0.099	0.17	1.007	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 23:41	YR
Styrene	ND		U	0.13	0.43	1.007	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 23:41	YR
Tetrachloroethylene	**2.0**		D	0.16	0.68	1.007	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 23:41	YR
Tetrahydrofuran	ND		U	0.10	0.59	1.007	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 23:41	YR
Toluene	**1.3**		D	0.15	0.38	1.007	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 23:41	YR
trans-1,2-Dichloroethylene	ND		U	0.096	0.40	1.007	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 23:41	YR
trans-1,3-Dichloropropylene	ND		U	0.18	0.46	1.007	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 23:41	YR
Trichloroethylene	ND		U	0.16	0.16	1.007	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 23:41	YR
Trichlorofluoromethane (Freon 11)	**1.2**		D	0.20	0.57	1.007	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 23:41	YR
Vinyl acetate	ND	TO-LCS-L	U	0.18	0.35	1.007	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 23:41	YR
Vinyl bromide	ND		U	0.15	0.44	1.007	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 23:41	YR
Vinyl Chloride	ND		U	0.10	0.13	1.007	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 23:41	YR

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
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

Certified Analyses included in this Report

(Continued)

Analyte	CAS #	Certifications
EPA TO-15 in Air (Continued)		
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

List of Certifications

Code	Description	Number	Expires
NJDEP-NY037	NJDEP Certification - Queens	NY037	06/30/2027
NYSDOH-NY12058	NYSDOH NELAC/ELAP Program - Queens	NY ELAP-12058	04/01/2027

Analytical Batch Summary

Batch ID: BG60574	**Preparation Method:** EPA TO15 PREP	**Prepared By:** YR
Sample ID	**Client Sample ID**	**Preparation Date**
26G0459-01	IA-7 20260708	07/09/26
26G0459-02	IA-8 20260708	07/09/26
26G0459-03	IA-9 20260708	07/09/26
26G0459-04	IA-10 20260708	07/09/26
26G0459-05	OA-2 20260708	07/09/26
BG60574-BLK1	Blank	07/09/26
BG60574-BS1	LCS	07/09/26

Batch ID: BG60588	**Preparation Method:** EPA TO15 PREP	**Prepared By:** YR
Sample ID	**Client Sample ID**	**Preparation Date**
26G0459-03RE1	IA-9 20260708	07/13/26
BG60588-BLK1	Blank	07/13/26
BG60588-BS1	LCS	07/13/26

Volatile Organic Compounds in Air by GC/MS - Quality Control Data

ALS Environmental - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BG60574 - EPA TO15 PREP											
Blank (BG60574-BLK1)									Prepared: 07/09/2026 Analyzed: 07/10/2026		
1,1,1,2-Tetrachloroethane	ND	0.69	ug/m³								
1,1,1-Trichloroethane	ND	0.55	ug/m³								
1,1,2,2-Tetrachloroethane	ND	0.69	ug/m³								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.77	ug/m³								
1,1,2-Trichloroethane	ND	0.55	ug/m³								
1,1-Dichloroethane	ND	0.40	ug/m³								
1,1-Dichloroethylene	ND	0.20	ug/m³								
1,2,4-Trichlorobenzene	ND	37	ug/m³								
1,2,4-Trimethylbenzene	ND	0.49	ug/m³								
1,2-Dibromoethane	ND	0.77	ug/m³								
1,2-Dichlorobenzene	ND	0.60	ug/m³								
1,2-Dichloroethane	ND	0.40	ug/m³								
1,2-Dichloropropane	ND	0.46	ug/m³								
1,2-Dichlorotetrafluoroethane	ND	0.70	ug/m³								
1,3,5-Trimethylbenzene	ND	0.49	ug/m³								
1,3-Butadiene	ND	0.66	ug/m³								
1,3-Dichlorobenzene	ND	0.60	ug/m³								
1,3-Dichloropropane	ND	0.46	ug/m³								
1,4-Dichlorobenzene	ND	0.60	ug/m³								
1,4-Dioxane	ND	1.8	ug/m³								
2,2,4-Trimethylpentane	ND	0.23	ug/m³								
2-Butanone	ND	15	ug/m³								
2-Hexanone	ND	0.82	ug/m³								
3-Chloropropene	ND	1.6	ug/m³								
4-Methyl-2-pentanone	ND	0.41	ug/m³								
Acetone	ND	12	ug/m³								
Acrylonitrile	ND	11	ug/m³								
Benzene	ND	0.32	ug/m³								
Benzyl chloride	ND	13	ug/m³								
Bromodichloromethane	ND	0.67	ug/m³								
Bromoform	ND	1.0	ug/m³								
Bromomethane	ND	0.39	ug/m³								
Carbon disulfide	ND	0.31	ug/m³								
Carbon tetrachloride	ND	0.19	ug/m³								
Chlorobenzene	ND	0.46	ug/m³								
Chloroethane	ND	0.26	ug/m³								
Chloroform	ND	0.49	ug/m³								
Chloromethane	ND	0.21	ug/m³								
cis-1,2-Dichloroethylene	ND	0.20	ug/m³								
cis-1,3-Dichloropropylene	ND	0.45	ug/m³								
Cyclohexane	ND	0.34	ug/m³								
Dibromochloromethane	ND	0.85	ug/m³								
Dichlorodifluoromethane	ND	0.49	ug/m³								
Ethyl acetate	ND	18	ug/m³								
Ethyl Benzene	ND	0.43	ug/m³								
Hexachlorobutadiene	ND	1.1	ug/m³								
Isopropanol	0.37	1.5	ug/m³								
Methyl Methacrylate	ND	0.41	ug/m³								
Methyl tert-butyl ether (MTBE)	ND	0.36	ug/m³								

Volatile Organic Compounds in Air by GC/MS - Quality Control Data

ALS Environmental - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BG60574 - EPA TO15 PREP											
Blank (BG60574-BLK1)							Prepared: 07/09/2026 Analyzed: 07/10/2026				
Methylene chloride	ND	2.1	ug/m³								
Naphthalene	ND	5.2	ug/m³								
n-Heptane	ND	0.41	ug/m³								
n-Hexane	ND	0.35	ug/m³								
o-Xylene	ND	0.43	ug/m³								
p- & m- Xylenes	ND	0.87	ug/m³								
p-Ethyltoluene	ND	0.49	ug/m³								
Propylene	ND	0.17	ug/m³								
Styrene	ND	0.43	ug/m³								
Tetrachloroethylene	ND	0.68	ug/m³								
Tetrahydrofuran	ND	0.59	ug/m³								
Toluene	ND	0.38	ug/m³								
trans-1,2-Dichloroethylene	ND	0.40	ug/m³								
trans-1,3-Dichloropropylene	ND	0.45	ug/m³								
Trichloroethylene	ND	0.16	ug/m³								
Trichlorofluoromethane (Freon 11)	ND	0.56	ug/m³								
Vinyl acetate	ND	0.35	ug/m³								
Vinyl bromide	ND	0.44	ug/m³								
Vinyl Chloride	ND	0.13	ug/m³								
LCS (BG60574-BS1)							Prepared: 07/09/2026 Analyzed: 07/10/2026				
1,1,1,2-Tetrachloroethane	9.69		ppbv	10.0		96.9	70-130				
1,1,1-Trichloroethane	8.53		ppbv	10.0		85.3	70-130				
1,1,2,2-Tetrachloroethane	10.1		ppbv	10.0		101	70-130				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.0		ppbv	10.0		100	70-130				
1,1,2-Trichloroethane	10.2		ppbv	10.0		102	70-130				
1,1-Dichloroethane	8.39		ppbv	10.0		83.9	70-130				
1,1-Dichloroethylene	8.72		ppbv	10.0		87.2	70-130				
1,2,4-Trichlorobenzene	10.0		ppbv	10.0		100	70-130				
1,2,4-Trimethylbenzene	10.1		ppbv	10.0		101	70-130				
1,2-Dibromoethane	10.0		ppbv	10.0		100	70-130				
1,2-Dichlorobenzene	9.89		ppbv	10.0		98.9	70-130				
1,2-Dichloroethane	8.40		ppbv	10.0		84.0	70-130				
1,2-Dichloropropane	9.73		ppbv	10.0		97.3	70-130				
1,2-Dichlorotetrafluoroethane	12.3		ppbv	10.0		123	70-130				
1,3,5-Trimethylbenzene	10.0		ppbv	10.0		100	70-130				
1,3-Butadiene	9.89		ppbv	10.0		98.9	70-130				
1,3-Dichlorobenzene	10.6		ppbv	10.0		106	70-130				
1,3-Dichloropropane	10.1		ppbv	10.0		101	70-130				
1,4-Dichlorobenzene	10.2		ppbv	10.0		102	70-130				
1,4-Dioxane	9.75		ppbv	10.0		97.5	70-130				
2,2,4-Trimethylpentane	8.49		ppbv	10.0		84.9	70-130				
2-Butanone	8.35		ppbv	10.0		83.5	70-130				
2-Hexanone	9.29		ppbv	10.0		92.9	70-130				
3-Chloropropene	7.49		ppbv	10.0		74.9	70-130				
4-Methyl-2-pentanone	9.62		ppbv	10.0		96.2	70-130				
Acetone	8.82		ppbv	10.0		88.2	70-130				
Acrylonitrile	8.15		ppbv	10.0		81.5	70-130				
Benzene	8.30		ppbv	10.0		83.0	70-130				
Benzyl chloride	7.78		ppbv	10.0		77.8	70-130				
Bromodichloromethane	10.2		ppbv	10.0		102	70-130				

Volatile Organic Compounds in Air by GC/MS - Quality Control Data

ALS Environmental - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BG60574 - EPA TO15 PREP											
LCS (BG60574-BS1)								Prepared: 07/09/2026 Analyzed: 07/10/2026			
Bromoform	10.4		ppbv	10.0		104	70-130				
Bromomethane	11.0		ppbv	10.0		110	70-130				
Carbon disulfide	9.74		ppbv	10.0		97.4	70-130				
Carbon tetrachloride	9.19		ppbv	10.0		91.9	70-130				
Chlorobenzene	9.75		ppbv	10.0		97.5	70-130				
Chloroethane	9.93		ppbv	10.0		99.3	70-130				
Chloroform	11.6		ppbv	10.0		116	70-130				
Chloromethane	10.6		ppbv	10.0		106	70-130				
cis-1,2-Dichloroethylene	11.0		ppbv	10.0		110	70-130				
cis-1,3-Dichloropropylene	9.75		ppbv	10.0		97.5	70-130				
Cyclohexane	7.80		ppbv	10.0		78.0	70-130				
Dibromochloromethane	10.6		ppbv	10.0		106	70-130				
Dichlorodifluoromethane	8.53		ppbv	10.0		85.3	70-130				
Ethyl acetate	7.84		ppbv	10.0		78.4	70-130				
Ethyl Benzene	9.53		ppbv	10.0		95.3	70-130				
Hexachlorobutadiene	10.8		ppbv	10.0		108	70-130				
Isopropanol	8.00		ppbv	10.0		80.0	70-130				
Methyl Methacrylate	8.58		ppbv	10.0		85.8	70-130				
Methyl tert-butyl ether (MTBE)	11.0		ppbv	10.0		110	70-130				
Methylene chloride	8.73		ppbv	10.0		87.3	70-130				
Naphthalene	9.92		ppbv	10.0		99.2	70-130				
n-Heptane	8.81		ppbv	10.0		88.1	70-130				
n-Hexane	8.18		ppbv	10.0		81.8	70-130				
o-Xylene	9.94		ppbv	10.0		99.4	70-130				
p- & m- Xylenes	18.5		ppbv	20.0		92.4	70-130				
p-Ethyltoluene	9.86		ppbv	10.0		98.6	70-130				
Propylene	6.24		ppbv	10.0		62.4	70-130				
Styrene	9.93		ppbv	10.0		99.3	70-130				
Tetrachloroethylene	10.2		ppbv	10.0		102	70-130				
Tetrahydrofuran	7.51		ppbv	10.0		75.1	70-130				
Toluene	9.99		ppbv	10.0		99.9	70-130				
trans-1,2-Dichloroethylene	9.21		ppbv	10.0		92.1	70-130				
trans-1,3-Dichloropropylene	9.75		ppbv	10.0		97.5	70-130				
Trichloroethylene	10.3		ppbv	10.0		103	70-130				
Trichlorofluoromethane (Freon 11)	10.4		ppbv	10.0		104	70-130				
Vinyl acetate	5.70		ppbv	10.0		57.0	70-130				
Vinyl bromide	10.7		ppbv	10.0		107	70-130				
Vinyl Chloride	10.9		ppbv	10.0		109	70-130				

Volatile Organic Compounds in Air by GC/MS - Quality Control Data

ALS Environmental - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BG60588 - EPA TO15 PREP											
Blank (BG60588-BLK1)								Prepared & Analyzed: 07/13/2026			
1,1,1,2-Tetrachloroethane	ND	0.69	ug/m³								
1,1,1-Trichloroethane	ND	0.55	ug/m³								
1,1,2,2-Tetrachloroethane	ND	0.69	ug/m³								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.77	ug/m³								
1,1,2-Trichloroethane	ND	0.55	ug/m³								
1,1-Dichloroethane	ND	0.40	ug/m³								
1,1-Dichloroethylene	ND	0.20	ug/m³								
1,2,4-Trichlorobenzene	ND	37	ug/m³								
1,2,4-Trimethylbenzene	ND	0.49	ug/m³								
1,2-Dibromoethane	ND	0.77	ug/m³								
1,2-Dichlorobenzene	ND	0.60	ug/m³								
1,2-Dichloroethane	ND	0.40	ug/m³								
1,2-Dichloropropane	ND	0.46	ug/m³								
1,2-Dichlorotetrafluoroethane	ND	0.70	ug/m³								
1,3,5-Trimethylbenzene	ND	0.49	ug/m³								
1,3-Butadiene	ND	0.66	ug/m³								
1,3-Dichlorobenzene	ND	0.60	ug/m³								
1,3-Dichloropropane	ND	0.46	ug/m³								
1,4-Dichlorobenzene	ND	0.60	ug/m³								
1,4-Dioxane	ND	1.8	ug/m³								
2,2,4-Trimethylpentane	ND	0.23	ug/m³								
2-Butanone	ND	15	ug/m³								
2-Hexanone	ND	0.82	ug/m³								
3-Chloropropene	ND	1.6	ug/m³								
4-Methyl-2-pentanone	ND	0.41	ug/m³								
Acetone	ND	12	ug/m³								
Acrylonitrile	ND	11	ug/m³								
Benzene	ND	0.32	ug/m³								
Benzyl chloride	ND	13	ug/m³								
Bromodichloromethane	ND	0.67	ug/m³								
Bromoform	ND	1.0	ug/m³								
Bromomethane	ND	0.39	ug/m³								
Carbon disulfide	ND	0.31	ug/m³								
Carbon tetrachloride	ND	0.19	ug/m³								
Chlorobenzene	ND	0.46	ug/m³								
Chloroethane	ND	0.26	ug/m³								
Chloroform	ND	0.49	ug/m³								
Chloromethane	ND	0.21	ug/m³								
cis-1,2-Dichloroethylene	ND	0.20	ug/m³								
cis-1,3-Dichloropropylene	ND	0.45	ug/m³								
Cyclohexane	ND	0.34	ug/m³								
Dibromochloromethane	ND	0.85	ug/m³								
Dichlorodifluoromethane	ND	0.49	ug/m³								
Ethyl acetate	ND	18	ug/m³								
Ethyl Benzene	ND	0.43	ug/m³								
Hexachlorobutadiene	ND	1.1	ug/m³								
Isopropanol	0.61	1.5	ug/m³								
Methyl Methacrylate	ND	0.41	ug/m³								
Methyl tert-butyl ether (MTBE)	ND	0.36	ug/m³								
Methylene chloride	ND	2.1	ug/m³								

Volatile Organic Compounds in Air by GC/MS - Quality Control Data

ALS Environmental - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BG60588 - EPA TO15 PREP											
Blank (BG60588-BLK1)							Prepared & Analyzed: 07/13/2026				
Naphthalene	ND	5.2	ug/m³								
n-Heptane	ND	0.41	ug/m³								
n-Hexane	ND	0.35	ug/m³								
o-Xylene	ND	0.43	ug/m³								
p- & m- Xylenes	ND	0.87	ug/m³								
p-Ethyltoluene	ND	0.49	ug/m³								
Propylene	ND	0.17	ug/m³								
Styrene	ND	0.43	ug/m³								
Tetrachloroethylene	ND	0.68	ug/m³								
Tetrahydrofuran	ND	0.59	ug/m³								
Toluene	ND	0.38	ug/m³								
trans-1,2-Dichloroethylene	ND	0.40	ug/m³								
trans-1,3-Dichloropropylene	ND	0.45	ug/m³								
Trichloroethylene	ND	0.16	ug/m³								
Trichlorofluoromethane (Freon 11)	ND	0.56	ug/m³								
Vinyl acetate	ND	0.35	ug/m³								
Vinyl bromide	ND	0.44	ug/m³								
Vinyl Chloride	ND	0.13	ug/m³								
LCS (BG60588-BS1)							Prepared & Analyzed: 07/13/2026				
1,1,1,2-Tetrachloroethane	9.18		ppbv	10.0		91.8	70-130				
1,1,1-Trichloroethane	8.25		ppbv	10.0		82.5	70-130				
1,1,2,2-Tetrachloroethane	9.56		ppbv	10.0		95.6	70-130				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	9.74		ppbv	10.0		97.4	70-130				
1,1,2-Trichloroethane	9.77		ppbv	10.0		97.7	70-130				
1,1-Dichloroethane	8.04		ppbv	10.0		80.4	70-130				
1,1-Dichloroethylene	8.43		ppbv	10.0		84.3	70-130				
1,2,4-Trichlorobenzene	9.01		ppbv	10.0		90.1	70-130				
1,2,4-Trimethylbenzene	9.62		ppbv	10.0		96.2	70-130				
1,2-Dibromoethane	9.71		ppbv	10.0		97.1	70-130				
1,2-Dichlorobenzene	9.46		ppbv	10.0		94.6	70-130				
1,2-Dichloroethane	8.05		ppbv	10.0		80.5	70-130				
1,2-Dichloropropane	9.38		ppbv	10.0		93.8	70-130				
1,2-Dichlorotetrafluoroethane	12.7		ppbv	10.0		127	70-130				
1,3,5-Trimethylbenzene	9.57		ppbv	10.0		95.7	70-130				
1,3-Butadiene	10.4		ppbv	10.0		104	70-130				
1,3-Dichlorobenzene	10.2		ppbv	10.0		102	70-130				
1,3-Dichloropropane	9.72		ppbv	10.0		97.2	70-130				
1,4-Dichlorobenzene	9.62		ppbv	10.0		96.2	70-130				
1,4-Dioxane	8.69		ppbv	10.0		86.9	70-130				
2,2,4-Trimethylpentane	8.19		ppbv	10.0		81.9	70-130				
2-Butanone	7.60		ppbv	10.0		76.0	70-130				
2-Hexanone	8.00		ppbv	10.0		80.0	70-130				
3-Chloropropene	7.29		ppbv	10.0		72.9	70-130				
4-Methyl-2-pentanone	8.98		ppbv	10.0		89.8	70-130				
Acetone	8.24		ppbv	10.0		82.4	70-130				
Acrylonitrile	7.32		ppbv	10.0		73.2	70-130				
Benzene	7.93		ppbv	10.0		79.3	70-130				
Benzyl chloride	7.37		ppbv	10.0		73.7	70-130				
Bromodichloromethane	9.79		ppbv	10.0		97.9	70-130				
Bromoform	9.84		ppbv	10.0		98.4	70-130				

Volatile Organic Compounds in Air by GC/MS - Quality Control Data

ALS Environmental - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BG60588 - EPA TO15 PREP											
LCS (BG60588-BS1)							Prepared & Analyzed: 07/13/2026				
Bromomethane	11.2		ppbv	10.0		112	70-130				
Carbon disulfide	9.18		ppbv	10.0		91.8	70-130				
Carbon tetrachloride	8.76		ppbv	10.0		87.6	70-130				
Chlorobenzene	9.31		ppbv	10.0		93.1	70-130				
Chloroethane	10.2		ppbv	10.0		102	70-130				
Chloroform	11.1		ppbv	10.0		111	70-130				
Chloromethane	11.3		ppbv	10.0		113	70-130				
cis-1,2-Dichloroethylene	8.60		ppbv	10.0		86.0	70-130				
cis-1,3-Dichloropropylene	9.33		ppbv	10.0		93.3	70-130				
Cyclohexane	7.54		ppbv	10.0		75.4	70-130				
Dibromochloromethane	9.93		ppbv	10.0		99.3	70-130				
Dichlorodifluoromethane	9.12		ppbv	10.0		91.2	70-130				
Ethyl acetate	7.37		ppbv	10.0		73.7	70-130				
Ethyl Benzene	9.33		ppbv	10.0		93.3	70-130				
Hexachlorobutadiene	10.5		ppbv	10.0		105	70-130				
Isopropanol	7.50		ppbv	10.0		75.0	70-130				
Methyl Methacrylate	8.10		ppbv	10.0		81.0	70-130				
Methyl tert-butyl ether (MTBE)	8.69		ppbv	10.0		86.9	70-130				
Methylene chloride	8.55		ppbv	10.0		85.5	70-130				
Naphthalene	8.47		ppbv	10.0		84.7	70-130				
n-Heptane	8.58		ppbv	10.0		85.8	70-130				
n-Hexane	7.90		ppbv	10.0		79.0	70-130				
o-Xylene	9.64		ppbv	10.0		96.4	70-130				
p- & m- Xylenes	19.1		ppbv	20.0		95.7	70-130				
p-Ethyltoluene	9.53		ppbv	10.0		95.3	70-130				
Propylene	6.06		ppbv	10.0		60.6	70-130				
Styrene	9.65		ppbv	10.0		96.5	70-130				
Tetrachloroethylene	9.70		ppbv	10.0		97.0	70-130				
Tetrahydrofuran	7.07		ppbv	10.0		70.7	70-130				
Toluene	9.49		ppbv	10.0		94.9	70-130				
trans-1,2-Dichloroethylene	9.07		ppbv	10.0		90.7	70-130				
trans-1,3-Dichloropropylene	9.33		ppbv	10.0		93.3	70-130				
Trichloroethylene	9.94		ppbv	10.0		99.4	70-130				
Trichlorofluoromethane (Freon 11)	10.2		ppbv	10.0		102	70-130				
Vinyl acetate	4.70		ppbv	10.0		47.0	70-130				
Vinyl bromide	10.8		ppbv	10.0		108	70-130				
Vinyl Chloride	11.6		ppbv	10.0		116	70-130				

Volatile Organic Compounds in Air by GC/MS - Quality Control Data

ALS Environmental - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch S6F0126 - BE60627											
QBTO3091525A (S6F0126-CAL1)								Prepared & Analyzed: 05/29/2026			
1,1,1,2-Tetrachloroethane	0.00		ppbv	0.0250							
1,1,1-Trichloroethane	0.00		ppbv	0.0250							
1,1,2,2-Tetrachloroethane	0.00		ppbv	0.0250							
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.00		ppbv	0.0250							
1,1,2-Trichloroethane	0.00		ppbv	0.0250							
1,1-Dichloroethane	0.00		ppbv	0.0250							
1,1-Dichloroethylene	0.0300		ppbv	0.0250		120					
1,2,4-Trichlorobenzene	0.00		ppbv	0.0250							
1,2,4-Trimethylbenzene	0.00		ppbv	0.0250							
1,2-Dibromoethane	0.00		ppbv	0.0250							
1,2-Dichlorobenzene	0.00		ppbv	0.0250							
1,2-Dichloroethane	0.00		ppbv	0.0250							
1,2-Dichloropropane	0.00		ppbv	0.0250							
1,2-Dichlorotetrafluoroethane	0.00		ppbv	0.0250							
1,3,5-Trimethylbenzene	0.00		ppbv	0.0250							
1,3-Butadiene	0.00		ppbv	0.0250							
1,3-Dichlorobenzene	0.00		ppbv	0.0250							
1,3-Dichloropropane	0.00		ppbv	0.0250							
1,4-Dichlorobenzene	0.00		ppbv	0.0250							
1,4-Dioxane	0.00		ppbv	0.0250							
2,2,4-Trimethylpentane	0.0200		ppbv	0.0250		80.0					
2-Butanone	0.00		ppbv	0.0250							
2-Hexanone	0.00		ppbv	0.0250							
3-Chloropropene	0.00		ppbv	0.0250							
4-Methyl-2-pentanone	0.00		ppbv	0.0250							
Acetone	0.00		ppbv	0.0250							
Acrylonitrile	0.00		ppbv	0.0250							
Benzene	0.00		ppbv	0.0250							
Benzyl chloride	0.00		ppbv	0.0250							
Bromodichloromethane	0.00		ppbv	0.0250							
Bromoform	0.00		ppbv	0.0250							
Bromomethane	0.00		ppbv	0.0250							
Carbon disulfide	0.00		ppbv	0.0250							
Carbon tetrachloride	0.0300		ppbv	0.0250		120					
Chlorobenzene	0.00		ppbv	0.0250							
Chloroethane	0.00		ppbv	0.0250							
Chloroform	0.00		ppbv	0.0250							
Chloromethane	0.00		ppbv	0.0250							
cis-1,2-Dichloroethylene	0.0300		ppbv	0.0250		120					
cis-1,3-Dichloropropylene	0.00		ppbv	0.0250							
Cyclohexane	0.00		ppbv	0.0250							
Dibromochloromethane	0.00		ppbv	0.0250							
Dichlorodifluoromethane	0.00		ppbv	0.0250							
Ethyl acetate	0.00		ppbv	0.0250							
Ethyl Benzene	0.00		ppbv	0.0250							
Hexachlorobutadiene	0.00		ppbv	0.0250							
Isopropanol	0.00		ppbv	0.0250							
Methyl Methacrylate	0.00		ppbv	0.0250							
Methyl tert-butyl ether (MTBE)	0.00		ppbv	0.0250							
Methylene chloride	0.00		ppbv	0.0250							

Volatile Organic Compounds in Air by GC/MS - Quality Control Data

ALS Environmental - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch S6F0126 - BE60627											
QBTO3091525A (S6F0126-CAL1)						Prepared & Analyzed: 05/29/2026					
Naphthalene	0.00		ppbv	0.0250							
n-Heptane	0.00		ppbv	0.0250							
n-Hexane	0.00		ppbv	0.0250							
o-Xylene	0.00		ppbv	0.0250							
p- & m- Xylenes	0.00		ppbv	0.0500							
p-Ethyltoluene	0.00		ppbv	0.0250							
Propylene	0.00		ppbv	0.0250							
Styrene	0.00		ppbv	0.0250							
Tetrachloroethylene	0.00		ppbv	0.0250							
Tetrahydrofuran	0.00		ppbv	0.0250							
Toluene	0.00		ppbv	0.0250							
trans-1,2-Dichloroethylene	0.00		ppbv	0.0250							
trans-1,3-Dichloropropylene	0.00		ppbv	0.0250							
Trichloroethylene	0.0300		ppbv	0.0250		120					
Trichlorofluoromethane (Freon 11)	0.00		ppbv	0.0250							
Vinyl acetate	0.00		ppbv	0.0250							
Vinyl bromide	0.00		ppbv	0.0250							
Vinyl Chloride	0.0300		ppbv	0.0250		120					
QBTO3091525A (S6F0126-CAL2)						Prepared: 05/29/2026 Analyzed: 05/30/2026					
1,1,1,2-Tetrachloroethane	0.00		ppbv	0.0500							
1,1,1-Trichloroethane	0.00		ppbv	0.0500							
1,1,2,2-Tetrachloroethane	0.00		ppbv	0.0500							
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.00		ppbv	0.0500							
1,1,2-Trichloroethane	0.00		ppbv	0.0500							
1,1-Dichloroethane	0.00		ppbv	0.0500							
1,1-Dichloroethylene	0.0500		ppbv	0.0500		100					
1,2,4-Trichlorobenzene	0.00		ppbv	0.0500							
1,2,4-Trimethylbenzene	0.00		ppbv	0.0500							
1,2-Dibromoethane	0.00		ppbv	0.0500							
1,2-Dichlorobenzene	0.00		ppbv	0.0500							
1,2-Dichloroethane	0.00		ppbv	0.0500							
1,2-Dichloropropane	0.00		ppbv	0.0500							
1,2-Dichlorotetrafluoroethane	0.00		ppbv	0.0500							
1,3,5-Trimethylbenzene	0.00		ppbv	0.0500							
1,3-Butadiene	0.00		ppbv	0.0500							
1,3-Dichlorobenzene	0.00		ppbv	0.0500							
1,3-Dichloropropane	0.00		ppbv	0.0500							
1,4-Dichlorobenzene	0.00		ppbv	0.0500							
1,4-Dioxane	0.00		ppbv	0.0500							
2,2,4-Trimethylpentane	0.0500		ppbv	0.0500		100					
2-Butanone	0.00		ppbv	0.0500							
2-Hexanone	0.00		ppbv	0.0500							
3-Chloropropene	0.00		ppbv	0.0500							
4-Methyl-2-pentanone	0.00		ppbv	0.0500							
Acetone	0.00		ppbv	0.0500							
Acrylonitrile	0.00		ppbv	0.0500							
Benzene	0.00		ppbv	0.0500							
Benzyl chloride	0.00		ppbv	0.0500							
Bromodichloromethane	0.00		ppbv	0.0500							
Bromoform	0.00		ppbv	0.0500							

Volatile Organic Compounds in Air by GC/MS - Quality Control Data

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Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch S6F0126 - BE60627											
QBTO3091525A (S6F0126-CAL2)											
Prepared: 05/29/2026 Analyzed: 05/30/2026											
Bromomethane	0.00		ppbv	0.0500							
Carbon disulfide	0.00		ppbv	0.0500							
Carbon tetrachloride	0.0500		ppbv	0.0500		100					
Chlorobenzene	0.00		ppbv	0.0500							
Chloroethane	0.00		ppbv	0.0500							
Chloroform	0.00		ppbv	0.0500							
Chloromethane	0.00		ppbv	0.0500							
cis-1,2-Dichloroethylene	0.0400		ppbv	0.0500		80.0					
cis-1,3-Dichloropropylene	0.00		ppbv	0.0500							
Cyclohexane	0.00		ppbv	0.0500							
Dibromochloromethane	0.00		ppbv	0.0500							
Dichlorodifluoromethane	0.00		ppbv	0.0500							
Ethyl acetate	0.00		ppbv	0.0500							
Ethyl Benzene	0.00		ppbv	0.0500							
Hexachlorobutadiene	0.00		ppbv	0.0500							
Isopropanol	0.00		ppbv	0.0500							
Methyl Methacrylate	0.00		ppbv	0.0500							
Methyl tert-butyl ether (MTBE)	0.00		ppbv	0.0500							
Methylene chloride	0.00		ppbv	0.0500							
Naphthalene	0.00		ppbv	0.0500							
n-Heptane	0.00		ppbv	0.0500							
n-Hexane	0.00		ppbv	0.0500							
o-Xylene	0.00		ppbv	0.0500							
p- & m- Xylenes	0.00		ppbv	0.100							
p-Ethyltoluene	0.00		ppbv	0.0500							
Propylene	0.00		ppbv	0.0500							
Styrene	0.00		ppbv	0.0500							
Tetrachloroethylene	0.00		ppbv	0.0500							
Tetrahydrofuran	0.00		ppbv	0.0500							
Toluene	0.00		ppbv	0.0500							
trans-1,2-Dichloroethylene	0.00		ppbv	0.0500							
trans-1,3-Dichloropropylene	0.00		ppbv	0.0500							
Trichloroethylene	0.0500		ppbv	0.0500		100					
Trichlorofluoromethane (Freon 11)	0.00		ppbv	0.0500							
Vinyl acetate	0.00		ppbv	0.0500							
Vinyl bromide	0.00		ppbv	0.0500							
Vinyl Chloride	0.0400		ppbv	0.0500		80.0					

Volatile Organic Compounds in Air by GC/MS - Quality Control Data

ALS Environmental - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch S6F0126 - BE60627											
QBTO3091525A (S6F0126-CAL3)						Prepared: 05/29/2026 Analyzed: 05/30/2026					
1,1,1,2-Tetrachloroethane	0.110		ppbv	0.101		109					
1,1,1-Trichloroethane	0.110		ppbv	0.101		109					
1,1,2,2-Tetrachloroethane	0.120		ppbv	0.101		119					
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.110		ppbv	0.101		109					
1,1,2-Trichloroethane	0.110		ppbv	0.101		109					
1,1-Dichloroethane	0.110		ppbv	0.101		109					
1,1-Dichloroethylene	0.0800		ppbv	0.101		79.2					
1,2,4-Trichlorobenzene	0.120		ppbv	0.101		119					
1,2,4-Trimethylbenzene	0.120		ppbv	0.101		119					
1,2-Dibromoethane	0.110		ppbv	0.101		109					
1,2-Dichlorobenzene	0.120		ppbv	0.101		119					
1,2-Dichloroethane	0.110		ppbv	0.101		109					
1,2-Dichloropropane	0.120		ppbv	0.101		119					
1,2-Dichlorotetrafluoroethane	0.110		ppbv	0.101		109					
1,3,5-Trimethylbenzene	0.110		ppbv	0.101		109					
1,3-Butadiene	0.120		ppbv	0.101		119					
1,3-Dichlorobenzene	0.120		ppbv	0.101		119					
1,3-Dichloropropane	0.110		ppbv	0.101		109					
1,4-Dichlorobenzene	0.110		ppbv	0.101		109					
1,4-Dioxane	0.0900		ppbv	0.101		89.1					
2,2,4-Trimethylpentane	0.110		ppbv	0.101		109					
2-Butanone	0.120		ppbv	0.101		119					
2-Hexanone	0.200		ppbv	0.101		198					
3-Chloropropene	0.120		ppbv	0.101		119					
4-Methyl-2-pentanone	0.150		ppbv	0.101		149					
Acetone	0.800		ppbv	0.101		792					
Acrylonitrile	0.130		ppbv	0.101		129					
Benzene	0.150		ppbv	0.101		149					
Benzyl chloride	0.110		ppbv	0.101		109					
Bromodichloromethane	0.110		ppbv	0.101		109					
Bromoform	0.110		ppbv	0.101		109					
Bromomethane	0.120		ppbv	0.101		119					
Carbon disulfide	0.120		ppbv	0.101		119					
Carbon tetrachloride	0.0600		ppbv	0.101		59.4					
Chlorobenzene	0.110		ppbv	0.101		109					
Chloroethane	0.120		ppbv	0.101		119					
Chloroform	0.0600		ppbv	0.101		59.4					
Chloromethane	0.130		ppbv	0.101		129					
cis-1,2-Dichloroethylene	0.110		ppbv	0.101		109					
cis-1,3-Dichloropropylene	0.110		ppbv	0.101		109					
Cyclohexane	0.140		ppbv	0.101		139					
Dibromochloromethane	0.110		ppbv	0.101		109					
Dichlorodifluoromethane	0.110		ppbv	0.101		109					
Ethyl acetate	0.130		ppbv	0.101		129					
Ethyl Benzene	0.120		ppbv	0.101		119					
Hexachlorobutadiene	0.110		ppbv	0.101		109					
Isopropanol	0.220		ppbv	0.101		218					
Methyl Methacrylate	0.120		ppbv	0.101		119					
Methyl tert-butyl ether (MTBE)	0.120		ppbv	0.101		119					
Methylene chloride	0.120		ppbv	0.101		119					

Volatile Organic Compounds in Air by GC/MS - Quality Control Data

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Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch S6F0126 - BE60627											
QBTO3091525A (S6F0126-CAL3)						Prepared: 05/29/2026 Analyzed: 05/30/2026					
Naphthalene	0.120		ppbv	0.101		119					
n-Heptane	0.110		ppbv	0.101		109					
n-Hexane	0.120		ppbv	0.101		119					
o-Xylene	0.130		ppbv	0.101		129					
p- & m- Xylenes	0.260		ppbv	0.202		129					
p-Ethyltoluene	0.120		ppbv	0.101		119					
Propylene	0.130		ppbv	0.101		129					
Styrene	0.110		ppbv	0.101		109					
Tetrachloroethylene	0.110		ppbv	0.101		109					
Tetrahydrofuran	0.130		ppbv	0.101		129					
Toluene	0.130		ppbv	0.101		129					
trans-1,2-Dichloroethylene	0.110		ppbv	0.101		109					
trans-1,3-Dichloropropylene	0.110		ppbv	0.101		109					
Trichloroethylene	0.110		ppbv	0.101		109					
Trichlorofluoromethane (Freon 11)	0.110		ppbv	0.101		109					
Vinyl acetate	0.110		ppbv	0.101		109					
Vinyl bromide	0.110		ppbv	0.101		109					
Vinyl Chloride	0.110		ppbv	0.101		109					
QBTO3091525A (S6F0126-CAL4)						Prepared: 05/29/2026 Analyzed: 05/30/2026					
1,1,1,2-Tetrachloroethane	0.470		ppbv	0.505		93.1					
1,1,1-Trichloroethane	0.470		ppbv	0.505		93.1					
1,1,2,2-Tetrachloroethane	0.490		ppbv	0.505		97.0					
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.470		ppbv	0.505		93.1					
1,1,2-Trichloroethane	0.470		ppbv	0.505		93.1					
1,1-Dichloroethane	0.480		ppbv	0.505		95.0					
1,1-Dichloroethylene	0.490		ppbv	0.505		97.0					
1,2,4-Trichlorobenzene	0.420		ppbv	0.505		83.2					
1,2,4-Trimethylbenzene	0.470		ppbv	0.505		93.1					
1,2-Dibromoethane	0.460		ppbv	0.505		91.1					
1,2-Dichlorobenzene	0.470		ppbv	0.505		93.1					
1,2-Dichloroethane	0.480		ppbv	0.505		95.0					
1,2-Dichloropropane	0.470		ppbv	0.505		93.1					
1,2-Dichlorotetrafluoroethane	0.480		ppbv	0.505		95.0					
1,3,5-Trimethylbenzene	0.480		ppbv	0.505		95.0					
1,3-Butadiene	0.470		ppbv	0.505		93.1					
1,3-Dichlorobenzene	0.470		ppbv	0.505		93.1					
1,3-Dichloropropane	0.470		ppbv	0.505		93.1					
1,4-Dichlorobenzene	0.470		ppbv	0.505		93.1					
1,4-Dioxane	0.610		ppbv	0.505		121					
2,2,4-Trimethylpentane	0.460		ppbv	0.505		91.1					
2-Butanone	0.480		ppbv	0.505		95.0					
2-Hexanone	0.500		ppbv	0.505		99.0					
3-Chloropropene	0.500		ppbv	0.505		99.0					
4-Methyl-2-pentanone	0.510		ppbv	0.505		101					
Acetone	1.11		ppbv	0.505		220					
Acrylonitrile	0.540		ppbv	0.505		107					
Benzene	0.490		ppbv	0.505		97.0					
Benzyl chloride	0.440		ppbv	0.505		87.1					
Bromodichloromethane	0.470		ppbv	0.505		93.1					
Bromoform	0.470		ppbv	0.505		93.1					

Volatile Organic Compounds in Air by GC/MS - Quality Control Data

ALS Environmental - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch S6F0126 - BE60627											
QBTO3091525A (S6F0126-CAL4)											
Prepared: 05/29/2026 Analyzed: 05/30/2026											
Bromomethane	0.470		ppbv	0.505		93.1					
Carbon disulfide	0.480		ppbv	0.505		95.0					
Carbon tetrachloride	0.480		ppbv	0.505		95.0					
Chlorobenzene	0.470		ppbv	0.505		93.1					
Chloroethane	0.470		ppbv	0.505		93.1					
Chloroform	0.510		ppbv	0.505		101					
Chloromethane	0.480		ppbv	0.505		95.0					
cis-1,2-Dichloroethylene	0.470		ppbv	0.505		93.1					
cis-1,3-Dichloropropylene	0.460		ppbv	0.505		91.1					
Cyclohexane	0.480		ppbv	0.505		95.0					
Dibromochloromethane	0.460		ppbv	0.505		91.1					
Dichlorodifluoromethane	0.470		ppbv	0.505		93.1					
Ethyl acetate	0.480		ppbv	0.505		95.0					
Ethyl Benzene	0.470		ppbv	0.505		93.1					
Hexachlorobutadiene	0.450		ppbv	0.505		89.1					
Isopropanol	0.600		ppbv	0.505		119					
Methyl Methacrylate	0.470		ppbv	0.505		93.1					
Methyl tert-butyl ether (MTBE)	0.470		ppbv	0.505		93.1					
Methylene chloride	0.480		ppbv	0.505		95.0					
Naphthalene	0.440		ppbv	0.505		87.1					
n-Heptane	0.480		ppbv	0.505		95.0					
n-Hexane	0.460		ppbv	0.505		91.1					
o-Xylene	0.490		ppbv	0.505		97.0					
p- & m- Xylenes	0.990		ppbv	1.01		98.0					
p-Ethyltoluene	0.480		ppbv	0.505		95.0					
Propylene	0.470		ppbv	0.505		93.1					
Styrene	0.470		ppbv	0.505		93.1					
Tetrachloroethylene	0.470		ppbv	0.505		93.1					
Tetrahydrofuran	0.480		ppbv	0.505		95.0					
Toluene	0.480		ppbv	0.505		95.0					
trans-1,2-Dichloroethylene	0.480		ppbv	0.505		95.0					
trans-1,3-Dichloropropylene	0.460		ppbv	0.505		91.1					
Trichloroethylene	0.460		ppbv	0.505		91.1					
Trichlorofluoromethane (Freon 11)	0.470		ppbv	0.505		93.1					
Vinyl acetate	0.500		ppbv	0.505		99.0					
Vinyl bromide	0.470		ppbv	0.505		93.1					
Vinyl Chloride	0.460		ppbv	0.505		91.1					

Volatile Organic Compounds in Air by GC/MS - Quality Control Data

ALS Environmental - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch S6F0126 - BE60627											
QBTO3091525A (S6F0126-CAL5)						Prepared: 05/29/2026 Analyzed: 05/30/2026					
1,1,1,2-Tetrachloroethane	2.30		ppbv	2.52		91.3					
1,1,1-Trichloroethane	2.31		ppbv	2.52		91.7					
1,1,2,2-Tetrachloroethane	2.37		ppbv	2.52		94.0					
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	2.33		ppbv	2.52		92.5					
1,1,2-Trichloroethane	2.36		ppbv	2.52		93.7					
1,1-Dichloroethane	2.33		ppbv	2.52		92.5					
1,1-Dichloroethylene	2.44		ppbv	2.52		96.8					
1,2,4-Trichlorobenzene	2.16		ppbv	2.52		85.7					
1,2,4-Trimethylbenzene	2.36		ppbv	2.52		93.7					
1,2-Dibromoethane	2.36		ppbv	2.52		93.7					
1,2-Dichlorobenzene	2.35		ppbv	2.52		93.3					
1,2-Dichloroethane	2.31		ppbv	2.52		91.7					
1,2-Dichloropropane	2.34		ppbv	2.52		92.9					
1,2-Dichlorotetrafluoroethane	2.33		ppbv	2.52		92.5					
1,3,5-Trimethylbenzene	2.35		ppbv	2.52		93.3					
1,3-Butadiene	2.29		ppbv	2.52		90.9					
1,3-Dichlorobenzene	2.40		ppbv	2.52		95.2					
1,3-Dichloropropane	2.35		ppbv	2.52		93.3					
1,4-Dichlorobenzene	2.38		ppbv	2.52		94.4					
1,4-Dioxane	2.50		ppbv	2.52		99.2					
2,2,4-Trimethylpentane	2.26		ppbv	2.52		89.7					
2-Butanone	2.28		ppbv	2.52		90.5					
2-Hexanone	2.11		ppbv	2.52		83.7					
3-Chloropropene	2.30		ppbv	2.52		91.3					
4-Methyl-2-pentanone	2.29		ppbv	2.52		90.9					
Acetone	2.91		ppbv	2.52		115					
Acrylonitrile	2.57		ppbv	2.52		102					
Benzene	2.24		ppbv	2.52		88.9					
Benzyl chloride	2.28		ppbv	2.52		90.5					
Bromodichloromethane	2.34		ppbv	2.52		92.9					
Bromoform	2.36		ppbv	2.52		93.7					
Bromomethane	2.30		ppbv	2.52		91.3					
Carbon disulfide	2.31		ppbv	2.52		91.7					
Carbon tetrachloride	2.44		ppbv	2.52		96.8					
Chlorobenzene	2.33		ppbv	2.52		92.5					
Chloroethane	2.28		ppbv	2.52		90.5					
Chloroform	1.35		ppbv	2.52		53.6					
Chloromethane	2.29		ppbv	2.52		90.9					
cis-1,2-Dichloroethylene	2.28		ppbv	2.52		90.5					
cis-1,3-Dichloropropylene	2.30		ppbv	2.52		91.3					
Cyclohexane	2.28		ppbv	2.52		90.5					
Dibromochloromethane	2.35		ppbv	2.52		93.3					
Dichlorodifluoromethane	2.31		ppbv	2.52		91.7					
Ethyl acetate	2.29		ppbv	2.52		90.9					
Ethyl Benzene	2.32		ppbv	2.52		92.1					
Hexachlorobutadiene	2.26		ppbv	2.52		89.7					
Isopropanol	2.49		ppbv	2.52		98.8					
Methyl Methacrylate	2.31		ppbv	2.52		91.7					
Methyl tert-butyl ether (MTBE)	2.32		ppbv	2.52		92.1					
Methylene chloride	2.32		ppbv	2.52		92.1					

Volatile Organic Compounds in Air by GC/MS - Quality Control Data

ALS Environmental - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch S6F0126 - BE60627											
QBTO3091525A (S6F0126-CAL5)						Prepared: 05/29/2026 Analyzed: 05/30/2026					
Naphthalene	2.21		ppbv	2.52		87.7					
n-Heptane	2.37		ppbv	2.52		94.0					
n-Hexane	2.34		ppbv	2.52		92.9					
o-Xylene	2.36		ppbv	2.52		93.7					
p- & m- Xylenes	4.41		ppbv	5.04		87.5					
p-Ethyltoluene	2.32		ppbv	2.52		92.1					
Propylene	2.36		ppbv	2.52		93.7					
Styrene	2.33		ppbv	2.52		92.5					
Tetrachloroethylene	2.36		ppbv	2.52		93.7					
Tetrahydrofuran	2.35		ppbv	2.52		93.3					
Toluene	2.32		ppbv	2.52		92.1					
trans-1,2-Dichloroethylene	2.34		ppbv	2.52		92.9					
trans-1,3-Dichloropropylene	2.30		ppbv	2.52		91.3					
Trichloroethylene	2.39		ppbv	2.52		94.8					
Trichlorofluoromethane (Freon 11)	2.31		ppbv	2.52		91.7					
Vinyl acetate	2.34		ppbv	2.52		92.9					
Vinyl bromide	2.31		ppbv	2.52		91.7					
Vinyl Chloride	2.30		ppbv	2.52		91.3					
QBTO3091525A (S6F0126-CAL6)						Prepared: 05/29/2026 Analyzed: 05/30/2026					
1,1,1,2-Tetrachloroethane	4.82		ppbv	5.00		96.4					
1,1,1-Trichloroethane	4.77		ppbv	5.00		95.4					
1,1,2,2-Tetrachloroethane	4.74		ppbv	5.00		94.8					
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	4.83		ppbv	5.00		96.6					
1,1,2-Trichloroethane	4.80		ppbv	5.00		96.0					
1,1-Dichloroethane	4.79		ppbv	5.00		95.8					
1,1-Dichloroethylene	4.96		ppbv	5.00		99.2					
1,2,4-Trichlorobenzene	4.61		ppbv	5.00		92.2					
1,2,4-Trimethylbenzene	4.88		ppbv	5.00		97.6					
1,2-Dibromoethane	4.81		ppbv	5.00		96.2					
1,2-Dichlorobenzene	4.68		ppbv	5.00		93.6					
1,2-Dichloroethane	4.76		ppbv	5.00		95.2					
1,2-Dichloropropane	4.78		ppbv	5.00		95.6					
1,2-Dichlorotetrafluoroethane	4.83		ppbv	5.00		96.6					
1,3,5-Trimethylbenzene	4.81		ppbv	5.00		96.2					
1,3-Butadiene	4.70		ppbv	5.00		94.0					
1,3-Dichlorobenzene	4.81		ppbv	5.00		96.2					
1,3-Dichloropropane	4.86		ppbv	5.00		97.2					
1,4-Dichlorobenzene	4.82		ppbv	5.00		96.4					
1,4-Dioxane	4.75		ppbv	5.00		95.0					
2,2,4-Trimethylpentane	4.60		ppbv	5.00		92.0					
2-Butanone	4.66		ppbv	5.00		93.2					
2-Hexanone	4.09		ppbv	5.00		81.8					
3-Chloropropene	4.69		ppbv	5.00		93.8					
4-Methyl-2-pentanone	4.64		ppbv	5.00		92.8					
Acetone	5.00		ppbv	5.00		100					
Acrylonitrile	4.44		ppbv	5.00		88.8					
Benzene	4.52		ppbv	5.00		90.4					
Benzyl chloride	4.79		ppbv	5.00		95.8					
Bromodichloromethane	4.85		ppbv	5.00		97.0					
Bromoform	4.94		ppbv	5.00		98.8					

Volatile Organic Compounds in Air by GC/MS - Quality Control Data

ALS Environmental - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch S6F0126 - BE60627											
QBTO3091525A (S6F0126-CAL6)								Prepared: 05/29/2026 Analyzed: 05/30/2026			
Bromomethane	4.76		ppbv	5.00		95.2					
Carbon disulfide	4.77		ppbv	5.00		95.4					
Carbon tetrachloride	5.00		ppbv	5.00		100					
Chlorobenzene	4.83		ppbv	5.00		96.6					
Chloroethane	4.73		ppbv	5.00		94.6					
Chloroform	5.07		ppbv	5.00		101					
Chloromethane	4.67		ppbv	5.00		93.4					
cis-1,2-Dichloroethylene	4.68		ppbv	5.00		93.6					
cis-1,3-Dichloropropylene	5.04		ppbv	5.00		101					
Cyclohexane	4.59		ppbv	5.00		91.8					
Dibromochloromethane	4.84		ppbv	5.00		96.8					
Dichlorodifluoromethane	4.82		ppbv	5.00		96.4					
Ethyl acetate	4.60		ppbv	5.00		92.0					
Ethyl Benzene	4.73		ppbv	5.00		94.6					
Hexachlorobutadiene	4.85		ppbv	5.00		97.0					
Isopropanol	4.69		ppbv	5.00		93.8					
Methyl Methacrylate	4.76		ppbv	5.00		95.2					
Methyl tert-butyl ether (MTBE)	4.74		ppbv	5.00		94.8					
Methylene chloride	4.76		ppbv	5.00		95.2					
Naphthalene	4.62		ppbv	5.00		92.4					
n-Heptane	4.84		ppbv	5.00		96.8					
n-Hexane	4.75		ppbv	5.00		95.0					
o-Xylene	4.78		ppbv	5.00		95.6					
p- & m- Xylenes	9.16		ppbv	10.0		91.6					
p-Ethyltoluene	4.78		ppbv	5.00		95.6					
Propylene	4.65		ppbv	5.00		93.0					
Styrene	4.84		ppbv	5.00		96.8					
Tetrachloroethylene	4.87		ppbv	5.00		97.4					
Tetrahydrofuran	4.78		ppbv	5.00		95.6					
Toluene	4.71		ppbv	5.00		94.2					
trans-1,2-Dichloroethylene	4.78		ppbv	5.00		95.6					
trans-1,3-Dichloropropylene	5.04		ppbv	5.00		101					
Trichloroethylene	4.91		ppbv	5.00		98.2					
Trichlorofluoromethane (Freon 11)	4.83		ppbv	5.00		96.6					
Vinyl acetate	4.31		ppbv	5.00		86.2					
Vinyl bromide	4.79		ppbv	5.00		95.8					
Vinyl Chloride	4.72		ppbv	5.00		94.4					

Volatile Organic Compounds in Air by GC/MS - Quality Control Data

ALS Environmental - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch S6F0126 - BE60627											
QBTO3091525A (S6F0126-CAL7)						Prepared: 05/29/2026 Analyzed: 05/30/2026					
1,1,1,2-Tetrachloroethane	9.57		ppbv	10.0		95.7					
1,1,1-Trichloroethane	9.50		ppbv	10.0		95.0					
1,1,2,2-Tetrachloroethane	9.25		ppbv	10.0		92.5					
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	9.49		ppbv	10.0		94.9					
1,1,2-Trichloroethane	9.41		ppbv	10.0		94.1					
1,1-Dichloroethane	9.52		ppbv	10.0		95.2					
1,1-Dichloroethylene	9.85		ppbv	10.0		98.5					
1,2,4-Trichlorobenzene	9.55		ppbv	10.0		95.5					
1,2,4-Trimethylbenzene	9.52		ppbv	10.0		95.2					
1,2-Dibromoethane	9.53		ppbv	10.0		95.3					
1,2-Dichlorobenzene	9.39		ppbv	10.0		93.9					
1,2-Dichloroethane	9.47		ppbv	10.0		94.7					
1,2-Dichloropropane	9.37		ppbv	10.0		93.7					
1,2-Dichlorotetrafluoroethane	9.59		ppbv	10.0		95.9					
1,3,5-Trimethylbenzene	9.56		ppbv	10.0		95.6					
1,3-Butadiene	9.34		ppbv	10.0		93.4					
1,3-Dichlorobenzene	9.52		ppbv	10.0		95.2					
1,3-Dichloropropane	9.50		ppbv	10.0		95.0					
1,4-Dichlorobenzene	9.61		ppbv	10.0		96.1					
1,4-Dioxane	9.32		ppbv	10.0		93.2					
2,2,4-Trimethylpentane	9.11		ppbv	10.0		91.1					
2-Butanone	9.16		ppbv	10.0		91.6					
2-Hexanone	8.02		ppbv	10.0		80.2					
3-Chloropropene	9.26		ppbv	10.0		92.6					
4-Methyl-2-pentanone	9.00		ppbv	10.0		90.0					
Acetone	9.19		ppbv	10.0		91.9					
Acrylonitrile	8.81		ppbv	10.0		88.1					
Benzene	8.87		ppbv	10.0		88.7					
Benzyl chloride	9.77		ppbv	10.0		97.7					
Bromodichloromethane	9.55		ppbv	10.0		95.5					
Bromoform	9.72		ppbv	10.0		97.2					
Bromomethane	9.52		ppbv	10.0		95.2					
Carbon disulfide	9.44		ppbv	10.0		94.4					
Carbon tetrachloride	10.0		ppbv	10.0		100					
Chlorobenzene	9.50		ppbv	10.0		95.0					
Chloroethane	9.41		ppbv	10.0		94.1					
Chloroform	10.1		ppbv	10.0		101					
Chloromethane	9.19		ppbv	10.0		91.9					
cis-1,2-Dichloroethylene	9.32		ppbv	10.0		93.2					
cis-1,3-Dichloropropylene	9.85		ppbv	10.0		98.5					
Cyclohexane	8.99		ppbv	10.0		89.9					
Dibromochloromethane	9.61		ppbv	10.0		96.1					
Dichlorodifluoromethane	9.59		ppbv	10.0		95.9					
Ethyl acetate	9.08		ppbv	10.0		90.8					
Ethyl Benzene	9.32		ppbv	10.0		93.2					
Hexachlorobutadiene	9.69		ppbv	10.0		96.9					
Isopropanol	9.14		ppbv	10.0		91.4					
Methyl Methacrylate	9.30		ppbv	10.0		93.0					
Methyl tert-butyl ether (MTBE)	9.37		ppbv	10.0		93.7					
Methylene chloride	9.37		ppbv	10.0		93.7					

Volatile Organic Compounds in Air by GC/MS - Quality Control Data

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Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch S6F0126 - BE60627											
QBTO3091525A (S6F0126-CAL7)						Prepared: 05/29/2026 Analyzed: 05/30/2026					
Naphthalene	9.39		ppbv	10.0		93.9					
n-Heptane	9.44		ppbv	10.0		94.4					
n-Hexane	9.32		ppbv	10.0		93.2					
o-Xylene	9.39		ppbv	10.0		93.9					
p- & m- Xylenes	18.1		ppbv	20.0		90.4					
p-Ethyltoluene	9.44		ppbv	10.0		94.4					
Propylene	9.18		ppbv	10.0		91.8					
Styrene	9.64		ppbv	10.0		96.4					
Tetrachloroethylene	9.54		ppbv	10.0		95.4					
Tetrahydrofuran	9.49		ppbv	10.0		94.9					
Toluene	9.21		ppbv	10.0		92.1					
trans-1,2-Dichloroethylene	9.54		ppbv	10.0		95.4					
trans-1,3-Dichloropropylene	9.85		ppbv	10.0		98.5					
Trichloroethylene	9.60		ppbv	10.0		96.0					
Trichlorofluoromethane (Freon 11)	9.47		ppbv	10.0		94.7					
Vinyl acetate	8.65		ppbv	10.0		86.5					
Vinyl bromide	9.51		ppbv	10.0		95.1					
Vinyl Chloride	9.41		ppbv	10.0		94.1					
QBTO3091525A (S6F0126-CAL8)						Prepared: 05/29/2026 Analyzed: 05/30/2026					
1,1,1,2-Tetrachloroethane	14.1		ppbv	15.0		93.9					
1,1,1-Trichloroethane	14.2		ppbv	15.0		94.4					
1,1,2,2-Tetrachloroethane	13.8		ppbv	15.0		92.1					
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	14.3		ppbv	15.0		95.1					
1,1,2-Trichloroethane	14.4		ppbv	15.0		95.9					
1,1-Dichloroethane	14.2		ppbv	15.0		94.5					
1,1-Dichloroethylene	14.7		ppbv	15.0		98.3					
1,2,4-Trichlorobenzene	14.8		ppbv	15.0		98.5					
1,2,4-Trimethylbenzene	14.2		ppbv	15.0		94.3					
1,2-Dibromoethane	14.3		ppbv	15.0		95.5					
1,2-Dichlorobenzene	14.0		ppbv	15.0		93.1					
1,2-Dichloroethane	14.2		ppbv	15.0		94.7					
1,2-Dichloropropane	14.1		ppbv	15.0		94.2					
1,2-Dichlorotetrafluoroethane	14.1		ppbv	15.0		94.1					
1,3,5-Trimethylbenzene	14.3		ppbv	15.0		95.5					
1,3-Butadiene	14.0		ppbv	15.0		93.5					
1,3-Dichlorobenzene	14.2		ppbv	15.0		94.9					
1,3-Dichloropropane	14.2		ppbv	15.0		94.5					
1,4-Dichlorobenzene	14.4		ppbv	15.0		95.9					
1,4-Dioxane	13.9		ppbv	15.0		92.5					
2,2,4-Trimethylpentane	13.6		ppbv	15.0		90.4					
2-Butanone	13.9		ppbv	15.0		92.7					
2-Hexanone	11.8		ppbv	15.0		79.0					
3-Chloropropene	13.9		ppbv	15.0		92.7					
4-Methyl-2-pentanone	13.9		ppbv	15.0		92.9					
Acetone	13.2		ppbv	15.0		87.7					
Acrylonitrile	13.1		ppbv	15.0		87.5					
Benzene	13.2		ppbv	15.0		88.3					
Benzyl chloride	14.6		ppbv	15.0		97.4					
Bromodichloromethane	14.3		ppbv	15.0		95.5					
Bromoform	14.1		ppbv	15.0		94.3					

Volatile Organic Compounds in Air by GC/MS - Quality Control Data

ALS Environmental - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch S6F0126 - BE60627											
QBTO3091525A (S6F0126-CAL8)								Prepared: 05/29/2026 Analyzed: 05/30/2026			
Bromomethane	14.2		ppbv	15.0		94.3					
Carbon disulfide	14.0		ppbv	15.0		93.6					
Carbon tetrachloride	15.1		ppbv	15.0		101					
Chlorobenzene	14.3		ppbv	15.0		95.1					
Chloroethane	14.0		ppbv	15.0		93.4					
Chloroform	15.1		ppbv	15.0		101					
Chloromethane	13.8		ppbv	15.0		91.7					
cis-1,2-Dichloroethylene	13.9		ppbv	15.0		92.9					
cis-1,3-Dichloropropylene	14.2		ppbv	15.0		94.7					
Cyclohexane	13.5		ppbv	15.0		90.1					
Dibromochloromethane	14.3		ppbv	15.0		95.6					
Dichlorodifluoromethane	14.0		ppbv	15.0		93.5					
Ethyl acetate	13.7		ppbv	15.0		91.1					
Ethyl Benzene	14.0		ppbv	15.0		93.3					
Hexachlorobutadiene	14.8		ppbv	15.0		98.5					
Isopropanol	13.5		ppbv	15.0		90.2					
Methyl Methacrylate	14.2		ppbv	15.0		94.3					
Methyl tert-butyl ether (MTBE)	14.1		ppbv	15.0		94.0					
Methylene chloride	14.0		ppbv	15.0		93.2					
Naphthalene	14.4		ppbv	15.0		95.9					
n-Heptane	14.1		ppbv	15.0		94.0					
n-Hexane	14.0		ppbv	15.0		93.7					
o-Xylene	13.9		ppbv	15.0		92.6					
p- & m- Xylenes	30.0		ppbv	30.0		100					
p-Ethyltoluene	13.9		ppbv	15.0		92.7					
Propylene	13.7		ppbv	15.0		91.4					
Styrene	14.3		ppbv	15.0		95.3					
Tetrachloroethylene	14.4		ppbv	15.0		96.3					
Tetrahydrofuran	14.2		ppbv	15.0		94.7					
Toluene	13.8		ppbv	15.0		91.7					
trans-1,2-Dichloroethylene	14.3		ppbv	15.0		95.1					
trans-1,3-Dichloropropylene	14.2		ppbv	15.0		94.7					
Trichloroethylene	14.5		ppbv	15.0		96.6					
Trichlorofluoromethane (Freon 11)	14.3		ppbv	15.0		95.1					
Vinyl acetate	13.8		ppbv	15.0		92.2					
Vinyl bromide	14.3		ppbv	15.0		95.3					
Vinyl Chloride	14.1		ppbv	15.0		94.0					

Volatile Organic Compounds in Air by GC/MS - Quality Control Data

ALS Environmental - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch S6F0126 - BE60627											
QBTO3091525A (S6F0126-CAL9)						Prepared: 05/29/2026 Analyzed: 05/30/2026					
1,1,1,2-Tetrachloroethane	18.8		ppbv	20.0		94.2					
1,1,1-Trichloroethane	35.0		ppbv	20.0		175					
1,1,2,2-Tetrachloroethane	18.2		ppbv	20.0		90.9					
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	35.0		ppbv	20.0		175					
1,1,2-Trichloroethane	18.5		ppbv	20.0		92.4					
1,1-Dichloroethane	35.0		ppbv	20.0		175					
1,1-Dichloroethylene	36.4		ppbv	20.0		182					
1,2,4-Trichlorobenzene	19.5		ppbv	20.0		97.7					
1,2,4-Trimethylbenzene	18.3		ppbv	20.0		91.6					
1,2-Dibromoethane	18.8		ppbv	20.0		93.8					
1,2-Dichlorobenzene	18.4		ppbv	20.0		92.2					
1,2-Dichloroethane	35.1		ppbv	20.0		176					
1,2-Dichloropropane	18.6		ppbv	20.0		92.8					
1,2-Dichlorotetrafluoroethane	34.7		ppbv	20.0		173					
1,3,5-Trimethylbenzene	18.8		ppbv	20.0		94.0					
1,3-Butadiene	34.5		ppbv	20.0		173					
1,3-Dichlorobenzene	18.4		ppbv	20.0		92.0					
1,3-Dichloropropane	18.4		ppbv	20.0		92.2					
1,4-Dichlorobenzene	18.9		ppbv	20.0		94.4					
1,4-Dioxane	18.1		ppbv	20.0		90.6					
2,2,4-Trimethylpentane	33.4		ppbv	20.0		167					
2-Butanone	34.6		ppbv	20.0		173					
2-Hexanone	15.5		ppbv	20.0		77.6					
3-Chloropropene	34.2		ppbv	20.0		171					
4-Methyl-2-pentanone	16.4		ppbv	20.0		81.8					
Acetone	33.1		ppbv	20.0		166					
Acrylonitrile	32.3		ppbv	20.0		161					
Benzene	32.5		ppbv	20.0		162					
Benzyl chloride	19.2		ppbv	20.0		95.8					
Bromodichloromethane	18.6		ppbv	20.0		92.9					
Bromoform	18.8		ppbv	20.0		94.2					
Bromomethane	35.0		ppbv	20.0		175					
Carbon disulfide	34.8		ppbv	20.0		174					
Carbon tetrachloride	37.0		ppbv	20.0		185					
Chlorobenzene	18.6		ppbv	20.0		93.2					
Chloroethane	34.7		ppbv	20.0		173					
Chloroform	37.6		ppbv	20.0		188					
Chloromethane	33.8		ppbv	20.0		169					
cis-1,2-Dichloroethylene	34.3		ppbv	20.0		172					
cis-1,3-Dichloropropylene	18.6		ppbv	20.0		93.1					
Cyclohexane	33.4		ppbv	20.0		167					
Dibromochloromethane	18.9		ppbv	20.0		94.4					
Dichlorodifluoromethane	34.8		ppbv	20.0		174					
Ethyl acetate	33.6		ppbv	20.0		168					
Ethyl Benzene	18.2		ppbv	20.0		91.2					
Hexachlorobutadiene	19.4		ppbv	20.0		97.0					
Isopropanol	33.7		ppbv	20.0		169					
Methyl Methacrylate	18.4		ppbv	20.0		91.8					
Methyl tert-butyl ether (MTBE)	34.8		ppbv	20.0		174					
Methylene chloride	34.6		ppbv	20.0		173					

Volatile Organic Compounds in Air by GC/MS - Quality Control Data

ALS Environmental - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch S6F0126 - BE60627											
QBTO3091525A (S6F0126-CAL9)						Prepared: 05/29/2026 Analyzed: 05/30/2026					
Naphthalene	19.2		ppbv	20.0		96.1					
n-Heptane	18.4		ppbv	20.0		91.8					
n-Hexane	34.5		ppbv	20.0		173					
o-Xylene	17.8		ppbv	20.0		89.1					
p- & m- Xylenes	36.6		ppbv	40.0		91.4					
p-Ethyltoluene	18.3		ppbv	20.0		91.6					
Propylene	34.2		ppbv	20.0		171					
Styrene	18.7		ppbv	20.0		93.7					
Tetrachloroethylene	18.7		ppbv	20.0		93.4					
Tetrahydrofuran	35.0		ppbv	20.0		175					
Toluene	18.1		ppbv	20.0		90.4					
trans-1,2-Dichloroethylene	35.1		ppbv	20.0		175					
trans-1,3-Dichloropropylene	18.6		ppbv	20.0		93.1					
Trichloroethylene	18.6		ppbv	20.0		93.0					
Trichlorofluoromethane (Freon 11)	35.6		ppbv	20.0		178					
Vinyl acetate	35.7		ppbv	20.0		178					
Vinyl bromide	35.4		ppbv	20.0		177					
Vinyl Chloride	34.9		ppbv	20.0		174					
QBTO3091525A (S6F0126-CALA)						Prepared: 05/29/2026 Analyzed: 05/30/2026					
1,1,1,2-Tetrachloroethane	27.3		ppbv	30.0		91.0					
1,1,1-Trichloroethane	27.4		ppbv	30.0		91.2					
1,1,2,2-Tetrachloroethane	26.3		ppbv	30.0		87.7					
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	27.1		ppbv	30.0		90.4					
1,1,2-Trichloroethane	27.4		ppbv	30.0		91.2					
1,1-Dichloroethane	27.2		ppbv	30.0		90.8					
1,1-Dichloroethylene	28.3		ppbv	30.0		94.2					
1,2,4-Trichlorobenzene	29.7		ppbv	30.0		98.9					
1,2,4-Trimethylbenzene	26.7		ppbv	30.0		88.9					
1,2-Dibromoethane	27.1		ppbv	30.0		90.4					
1,2-Dichlorobenzene	26.8		ppbv	30.0		89.2					
1,2-Dichloroethane	27.3		ppbv	30.0		90.9					
1,2-Dichloropropane	26.9		ppbv	30.0		89.8					
1,2-Dichlorotetrafluoroethane	26.8		ppbv	30.0		89.5					
1,3,5-Trimethylbenzene	27.1		ppbv	30.0		90.3					
1,3-Butadiene	27.1		ppbv	30.0		90.2					
1,3-Dichlorobenzene	26.0		ppbv	30.0		86.5					
1,3-Dichloropropane	26.9		ppbv	30.0		89.7					
1,4-Dichlorobenzene	26.9		ppbv	30.0		89.8					
1,4-Dioxane	26.5		ppbv	30.0		88.4					
2,2,4-Trimethylpentane	25.8		ppbv	30.0		86.0					
2-Butanone	27.1		ppbv	30.0		90.2					
2-Hexanone	22.4		ppbv	30.0		74.7					
3-Chloropropene	26.6		ppbv	30.0		88.8					
4-Methyl-2-pentanone	23.6		ppbv	30.0		78.8					
Acetone	25.8		ppbv	30.0		86.0					
Acrylonitrile	25.2		ppbv	30.0		84.1					
Benzene	25.3		ppbv	30.0		84.2					
Benzyl chloride	28.0		ppbv	30.0		93.4					
Bromodichloromethane	27.2		ppbv	30.0		90.7					
Bromoform	26.4		ppbv	30.0		88.1					

Volatile Organic Compounds in Air by GC/MS - Quality Control Data

ALS Environmental - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch S6F0126 - BE60627											
QBTO3091525A (S6F0126-CALA)											
								Prepared: 05/29/2026 Analyzed: 05/30/2026			
Bromomethane	27.2		ppbv	30.0		90.8					
Carbon disulfide	26.9		ppbv	30.0		89.6					
Carbon tetrachloride	28.8		ppbv	30.0		96.1					
Chlorobenzene	26.9		ppbv	30.0		89.8					
Chloroethane	27.2		ppbv	30.0		90.7					
Chloroform	29.0		ppbv	30.0		96.5					
Chloromethane	26.0		ppbv	30.0		86.7					
cis-1,2-Dichloroethylene	26.6		ppbv	30.0		88.7					
cis-1,3-Dichloropropylene	27.3		ppbv	30.0		91.0					
Cyclohexane	26.0		ppbv	30.0		86.5					
Dibromochloromethane	27.2		ppbv	30.0		90.6					
Dichlorodifluoromethane	27.0		ppbv	30.0		89.9					
Ethyl acetate	26.2		ppbv	30.0		87.4					
Ethyl Benzene	26.2		ppbv	30.0		87.4					
Hexachlorobutadiene	26.7		ppbv	30.0		88.9					
Isopropanol	26.0		ppbv	30.0		86.8					
Methyl Methacrylate	27.0		ppbv	30.0		89.9					
Methyl tert-butyl ether (MTBE)	27.0		ppbv	30.0		90.1					
Methylene chloride	26.6		ppbv	30.0		88.8					
Naphthalene	28.6		ppbv	30.0		95.2					
n-Heptane	26.9		ppbv	30.0		89.7					
n-Hexane	26.9		ppbv	30.0		89.6					
o-Xylene	25.5		ppbv	30.0		84.9					
p- & m- Xylenes	53.6		ppbv	60.0		89.4					
p-Ethyltoluene	26.3		ppbv	30.0		87.5					
Propylene	26.6		ppbv	30.0		88.8					
Styrene	27.1		ppbv	30.0		90.2					
Tetrachloroethylene	27.1		ppbv	30.0		90.4					
Tetrahydrofuran	27.2		ppbv	30.0		90.6					
Toluene	25.8		ppbv	30.0		86.1					
trans-1,2-Dichloroethylene	27.3		ppbv	30.0		91.0					
trans-1,3-Dichloropropylene	27.3		ppbv	30.0		91.0					
Trichloroethylene	27.1		ppbv	30.0		90.3					
Trichlorofluoromethane (Freon 11)	27.4		ppbv	30.0		91.3					
Vinyl acetate	29.4		ppbv	30.0		97.9					
Vinyl bromide	27.5		ppbv	30.0		91.8					
Vinyl Chloride	27.4		ppbv	30.0		91.5					

Volatile Organic Compounds in Air by GC/MS - Quality Control Data

ALS Environmental - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch S6F0126 - BE60627											
QBTO3091525A (S6F0126-SCV1)						Prepared: 05/29/2026 Analyzed: 06/01/2026					
1,1,1,2-Tetrachloroethane	8.85		ppbv	10.0		88.5	70-130				
1,1,1-Trichloroethane	9.08		ppbv	10.0		90.8	70-130				
1,1,2,2-Tetrachloroethane	8.68		ppbv	10.0		86.8	70-130				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	8.97		ppbv	10.0		89.7	70-130				
1,1,2-Trichloroethane	8.94		ppbv	10.0		89.4	70-130				
1,1-Dichloroethane	8.99		ppbv	10.0		89.9	70-130				
1,1-Dichloroethylene	9.21		ppbv	10.0		92.1	70-130				
1,2,4-Trichlorobenzene	9.33		ppbv	10.0		93.3	70-130				
1,2,4-Trimethylbenzene	8.88		ppbv	10.0		88.8	70-130				
1,2-Dibromoethane	9.30		ppbv	10.0		93.0	70-130				
1,2-Dichlorobenzene	8.94		ppbv	10.0		89.4	70-130				
1,2-Dichloroethane	8.98		ppbv	10.0		89.8	70-130				
1,2-Dichloropropane	8.94		ppbv	10.0		89.4	70-130				
1,2-Dichlorotetrafluoroethane	8.50		ppbv	10.0		85.0	70-130				
1,3,5-Trimethylbenzene	8.93		ppbv	10.0		89.3	70-130				
1,3-Butadiene	8.36		ppbv	10.0		83.6	70-130				
1,3-Dichlorobenzene	9.00		ppbv	10.0		90.0	70-130				
1,3-Dichloropropane	8.99		ppbv	10.0		89.9	70-130				
1,4-Dichlorobenzene	9.16		ppbv	10.0		91.6	70-130				
1,4-Dioxane	8.65		ppbv	10.0		86.5	70-130				
2,2,4-Trimethylpentane	8.24		ppbv	10.0		82.4	70-130				
2-Butanone	8.51		ppbv	10.0		85.1	70-130				
2-Hexanone	7.31		ppbv	10.0		73.1	70-130				
3-Chloropropene	8.77		ppbv	10.0		87.7	70-130				
4-Methyl-2-pentanone	8.30		ppbv	10.0		83.0	70-130				
Acetone	8.47		ppbv	10.0		84.7	70-130				
Acrylonitrile	7.89		ppbv	10.0		78.9	70-130				
Benzene	8.32		ppbv	10.0		83.2	70-130				
Benzyl chloride	9.57		ppbv	10.0		95.7	70-130				
Bromodichloromethane	8.91		ppbv	10.0		89.1	70-130				
Bromoform	9.07		ppbv	10.0		90.7	70-130				
Bromomethane	8.84		ppbv	10.0		88.4	70-130				
Carbon disulfide	9.40		ppbv	10.0		94.0	70-130				
Carbon tetrachloride	9.59		ppbv	10.0		95.9	70-130				
Chlorobenzene	9.00		ppbv	10.0		90.0	70-130				
Chloroethane	8.38		ppbv	10.0		83.8	70-130				
Chloroform	9.73		ppbv	10.0		97.3	70-130				
Chloromethane	7.95		ppbv	10.0		79.5	70-130				
cis-1,2-Dichloroethylene	8.72		ppbv	10.0		87.2	70-130				
cis-1,3-Dichloropropylene	8.29		ppbv	10.0		82.9	70-130				
Cyclohexane	8.09		ppbv	10.0		80.9	70-130				
Dibromochloromethane	8.96		ppbv	10.0		89.6	70-130				
Dichlorodifluoromethane	8.65		ppbv	10.0		86.5	70-130				
Ethyl acetate	6.39		ppbv	10.0		63.9	70-130				
Ethyl Benzene	8.78		ppbv	10.0		87.8	70-130				
Hexachlorobutadiene	9.85		ppbv	10.0		98.5	70-130				
Isopropanol	9.69		ppbv	10.0		96.9	70-130				
Methyl Methacrylate	8.99		ppbv	10.0		89.9	70-130				
Methyl tert-butyl ether (MTBE)	8.56		ppbv	10.0		85.6	70-130				
Methylene chloride	8.72		ppbv	10.0		87.2	70-130				

Volatile Organic Compounds in Air by GC/MS - Quality Control Data

ALS Environmental - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch S6F0126 - BE60627											
QBTO3091525A (S6F0126-SCV1)								Prepared: 05/29/2026 Analyzed: 06/01/2026			
Naphthalene	9.06		ppbv	10.0		90.6	70-130				
n-Heptane	8.52		ppbv	10.0		85.2	70-130				
n-Hexane	8.44		ppbv	10.0		84.4	70-130				
o-Xylene	8.70		ppbv	10.0		87.0	70-130				
p- & m- Xylenes	16.6		ppbv	20.0		83.2	70-130				
p-Ethyltoluene	8.73		ppbv	10.0		87.3	70-130				
Propylene	8.17		ppbv	10.0		81.7	70-130				
Styrene	9.00		ppbv	10.0		90.0	70-130				
Tetrachloroethylene	9.31		ppbv	10.0		93.1	70-130				
Tetrahydrofuran	8.62		ppbv	10.0		86.2	70-130				
Toluene	8.87		ppbv	10.0		88.7	70-130				
trans-1,2-Dichloroethylene	8.89		ppbv	10.0		88.9	70-130				
trans-1,3-Dichloropropylene	8.29		ppbv	10.0		82.9	70-130				
Trichloroethylene	9.45		ppbv	10.0		94.5	70-130				
Trichlorofluoromethane (Freon 11)	8.61		ppbv	10.0		86.1	70-130				
Vinyl acetate	18.2		ppbv	10.0		182	70-130				
Vinyl bromide	8.38		ppbv	10.0		83.8	70-130				
Vinyl Chloride	8.40		ppbv	10.0		84.0	70-130				
Batch S6G1321 - BG60574											
QBTO3091525A (S6G1321-CCV1)								Prepared & Analyzed: 07/10/2026			
1,1,1,2-Tetrachloroethane	8.92		ppbv	10.0		89.2	70-130				
1,1,1-Trichloroethane	8.56		ppbv	10.0		85.6	70-130				
1,1,2,2-Tetrachloroethane	9.56		ppbv	10.0		95.6	70-130				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	9.85		ppbv	10.0		98.5	70-130				
1,1,2-Trichloroethane	9.88		ppbv	10.0		98.8	70-130				
1,1-Dichloroethane	8.41		ppbv	10.0		84.1	70-130				
1,1-Dichloroethylene	8.62		ppbv	10.0		86.2	70-130				
1,2,4-Trichlorobenzene	10.1		ppbv	10.0		101	70-130				
1,2,4-Trimethylbenzene	9.51		ppbv	10.0		95.1	70-130				
1,2-Dibromoethane	10.2		ppbv	10.0		102	70-130				
1,2-Dichlorobenzene	9.47		ppbv	10.0		94.7	70-130				
1,2-Dichloroethane	8.40		ppbv	10.0		84.0	70-130				
1,2-Dichloropropane	9.54		ppbv	10.0		95.4	70-130				
1,2-Dichlorotetrafluoroethane	11.7		ppbv	10.0		117	70-130				
1,3,5-Trimethylbenzene	9.49		ppbv	10.0		94.9	70-130				
1,3-Butadiene	9.51		ppbv	10.0		95.1	70-130				
1,3-Dichlorobenzene	9.90		ppbv	10.0		99.0	70-130				
1,3-Dichloropropane	9.97		ppbv	10.0		99.7	70-130				
1,4-Dichlorobenzene	9.69		ppbv	10.0		96.9	70-130				
1,4-Dioxane	9.08		ppbv	10.0		90.8	70-130				
2,2,4-Trimethylpentane	8.16		ppbv	10.0		81.6	70-130				
2-Butanone	8.16		ppbv	10.0		81.6	70-130				
2-Hexanone	8.81		ppbv	10.0		88.1	70-130				
3-Chloropropene	7.46		ppbv	10.0		74.6	70-130				
4-Methyl-2-pentanone	9.24		ppbv	10.0		92.4	70-130				
Acetone	8.22		ppbv	10.0		82.2	70-130				
Acrylonitrile	7.62		ppbv	10.0		76.2	70-130				
Benzene	8.11		ppbv	10.0		81.1	70-130				
Benzyl chloride	8.11		ppbv	10.0		81.1	70-130				

Volatile Organic Compounds in Air by GC/MS - Quality Control Data

ALS Environmental - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch S6G1321 - BG60574											
QBTO3091525A (S6G1321-CCV1)							Prepared & Analyzed: 07/10/2026				
Bromodichloromethane	9.76		ppbv	10.0		97.6	70-130				
Bromoform	9.52		ppbv	10.0		95.2	70-130				
Bromomethane	10.8		ppbv	10.0		108	70-130				
Carbon disulfide	9.94		ppbv	10.0		99.4	70-130				
Carbon tetrachloride	9.03		ppbv	10.0		90.3	70-130				
Chlorobenzene	9.37		ppbv	10.0		93.7	70-130				
Chloroethane	9.39		ppbv	10.0		93.9	70-130				
Chloroform	11.4		ppbv	10.0		114	70-130				
Chloromethane	9.88		ppbv	10.0		98.8	70-130				
cis-1,2-Dichloroethylene	10.8		ppbv	10.0		108	70-130				
cis-1,3-Dichloropropylene	8.81		ppbv	10.0		88.1	70-130				
Cyclohexane	7.37		ppbv	10.0		73.7	70-130				
Dibromochloromethane	9.97		ppbv	10.0		99.7	70-130				
Dichlorodifluoromethane	8.11		ppbv	10.0		81.1	70-130				
Ethyl acetate	5.80		ppbv	10.0		58.0	70-130				
Ethyl Benzene	9.29		ppbv	10.0		92.9	70-130				
Hexachlorobutadiene	11.0		ppbv	10.0		110	70-130				
Isopropanol	9.06		ppbv	10.0		90.6	70-130				
Methyl Methacrylate	8.79		ppbv	10.0		87.9	70-130				
Methyl tert-butyl ether (MTBE)	10.6		ppbv	10.0		106	70-130				
Methylene chloride	8.68		ppbv	10.0		86.8	70-130				
Naphthalene	9.81		ppbv	10.0		98.1	70-130				
n-Heptane	8.35		ppbv	10.0		83.5	70-130				
n-Hexane	7.73		ppbv	10.0		77.3	70-130				
o-Xylene	9.43		ppbv	10.0		94.3	70-130				
p- & m- Xylenes	17.8		ppbv	20.0		88.8	70-130				
p-Ethyltoluene	9.37		ppbv	10.0		93.7	70-130				
Propylene	5.87		ppbv	10.0		58.7	70-130				
Styrene	9.47		ppbv	10.0		94.7	70-130				
Tetrachloroethylene	9.86		ppbv	10.0		98.6	70-130				
Tetrahydrofuran	7.28		ppbv	10.0		72.8	70-130				
Toluene	9.75		ppbv	10.0		97.5	70-130				
trans-1,2-Dichloroethylene	9.09		ppbv	10.0		90.9	70-130				
trans-1,3-Dichloropropylene	8.81		ppbv	10.0		88.1	70-130				
Trichloroethylene	10.2		ppbv	10.0		102	70-130				
Trichlorofluoromethane (Freon 11)	9.65		ppbv	10.0		96.5	70-130				
Vinyl acetate	15.1		ppbv	10.0		151	70-130				
Vinyl bromide	9.71		ppbv	10.0		97.1	70-130				
Vinyl Chloride	10.3		ppbv	10.0		103	70-130				

Volatile Organic Compounds in Air by GC/MS - Quality Control Data

ALS Environmental - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch S6G1401 - BG60574											
QBTO3091525A (S6G1401-CCV1)							Prepared & Analyzed: 07/13/2026				
1,1,1,2-Tetrachloroethane	9.57		ppbv	10.0		95.7	70-130				
1,1,1-Trichloroethane	8.48		ppbv	10.0		84.8	70-130				
1,1,2,2-Tetrachloroethane	9.80		ppbv	10.0		98.0	70-130				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.4		ppbv	10.0		104	70-130				
1,1,2-Trichloroethane	9.98		ppbv	10.0		99.8	70-130				
1,1-Dichloroethane	8.50		ppbv	10.0		85.0	70-130				
1,1-Dichloroethylene	8.87		ppbv	10.0		88.7	70-130				
1,2,4-Trichlorobenzene	9.15		ppbv	10.0		91.5	70-130				
1,2,4-Trimethylbenzene	9.84		ppbv	10.0		98.4	70-130				
1,2-Dibromoethane	9.81		ppbv	10.0		98.1	70-130				
1,2-Dichlorobenzene	9.66		ppbv	10.0		96.6	70-130				
1,2-Dichloroethane	8.33		ppbv	10.0		83.3	70-130				
1,2-Dichloropropane	9.65		ppbv	10.0		96.5	70-130				
1,2-Dichlorotetrafluoroethane	13.4		ppbv	10.0		134	70-130				
1,3,5-Trimethylbenzene	9.80		ppbv	10.0		98.0	70-130				
1,3-Butadiene	11.0		ppbv	10.0		110	70-130				
1,3-Dichlorobenzene	10.4		ppbv	10.0		104	70-130				
1,3-Dichloropropane	9.93		ppbv	10.0		99.3	70-130				
1,4-Dichlorobenzene	9.90		ppbv	10.0		99.0	70-130				
1,4-Dioxane	9.15		ppbv	10.0		91.5	70-130				
2,2,4-Trimethylpentane	8.48		ppbv	10.0		84.8	70-130				
2-Butanone	7.79		ppbv	10.0		77.9	70-130				
2-Hexanone	8.12		ppbv	10.0		81.2	70-130				
3-Chloropropene	8.00		ppbv	10.0		80.0	70-130				
4-Methyl-2-pentanone	9.34		ppbv	10.0		93.4	70-130				
Acetone	8.76		ppbv	10.0		87.6	70-130				
Acrylonitrile	7.79		ppbv	10.0		77.9	70-130				
Benzene	8.20		ppbv	10.0		82.0	70-130				
Benzyl chloride	7.34		ppbv	10.0		73.4	70-130				
Bromodichloromethane	10.0		ppbv	10.0		100	70-130				
Bromoform	10.2		ppbv	10.0		102	70-130				
Bromomethane	11.8		ppbv	10.0		118	70-130				
Carbon disulfide	10.3		ppbv	10.0		103	70-130				
Carbon tetrachloride	9.07		ppbv	10.0		90.7	70-130				
Chlorobenzene	9.64		ppbv	10.0		96.4	70-130				
Chloroethane	10.8		ppbv	10.0		108	70-130				
Chloroform	11.6		ppbv	10.0		116	70-130				
Chloromethane	11.9		ppbv	10.0		119	70-130				
cis-1,2-Dichloroethylene	11.6		ppbv	10.0		116	70-130				
cis-1,3-Dichloropropylene	9.50		ppbv	10.0		95.0	70-130				
Cyclohexane	7.81		ppbv	10.0		78.1	70-130				
Dibromochloromethane	10.2		ppbv	10.0		102	70-130				
Dichlorodifluoromethane	9.65		ppbv	10.0		96.5	70-130				
Ethyl acetate	7.59		ppbv	10.0		75.9	70-130				
Ethyl Benzene	9.67		ppbv	10.0		96.7	70-130				
Hexachlorobutadiene	10.4		ppbv	10.0		104	70-130				
Isopropanol	8.00		ppbv	10.0		80.0	70-130				
Methyl Methacrylate	8.35		ppbv	10.0		83.5	70-130				
Methyl tert-butyl ether (MTBE)	11.3		ppbv	10.0		113	70-130				
Methylene chloride	9.30		ppbv	10.0		93.0	70-130				

Volatile Organic Compounds in Air by GC/MS - Quality Control Data

ALS Environmental - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch S6G1401 - BG60574											
QBTO3091525A (S6G1401-CCV1)							Prepared & Analyzed: 07/13/2026				
Naphthalene	8.43		ppbv	10.0		84.3	70-130				
n-Heptane	8.94		ppbv	10.0		89.4	70-130				
n-Hexane	8.31		ppbv	10.0		83.1	70-130				
o-Xylene	9.85		ppbv	10.0		98.5	70-130				
p- & m- Xylenes	18.7		ppbv	20.0		93.6	70-130				
p-Ethyltoluene	9.57		ppbv	10.0		95.7	70-130				
Propylene	6.44		ppbv	10.0		64.4	70-130				
Styrene	9.82		ppbv	10.0		98.2	70-130				
Tetrachloroethylene	9.83		ppbv	10.0		98.3	70-130				
Tetrahydrofuran	7.41		ppbv	10.0		74.1	70-130				
Toluene	9.68		ppbv	10.0		96.8	70-130				
trans-1,2-Dichloroethylene	9.65		ppbv	10.0		96.5	70-130				
trans-1,3-Dichloropropylene	9.50		ppbv	10.0		95.0	70-130				
Trichloroethylene	10.2		ppbv	10.0		102	70-130				
Trichlorofluoromethane (Freon 11)	10.8		ppbv	10.0		108	70-130				
Vinyl acetate	4.94		ppbv	10.0		49.4	70-130				
Vinyl bromide	11.1		ppbv	10.0		111	70-130				
Vinyl Chloride	12.1		ppbv	10.0		121	70-130				

Sample and Data Qualifiers Relating to This Work Order

/\	Analyte is not certified but the state of sample origination offer certification for the Analyte
TO-CCV	The value reported is ESTIMATED for this compound due to its behavior during continuing calibration verification (>30% Difference from initial calibration).
TO-LCS-L	The result reported for this compound may be biased low due to its behavior in the analysis batch LCS where it recovered less 70% of the expected value.
TO-MPX	P & M Xylene is a mixture of two xylene isomers. Since the exact proportions are unknown, treat the mixture as a single chemical and use a molecular weight of 106.16 for all calculations.

CLP Flags

B	Blank Contamination. The analyte was also detected in the method blank.
D	Diluted sample result. The sample was diluted before analysis.
E	Exceeds Calibration range. Result is above the instruments' linear calibration range.
H	Holding time exceeded. The sample was anlayzed after the recommended/required holding time.
J	Estimated Value. Result is above the Method Detection Limit (MDL) but below the Reporting Limit (RL).
N	Tentatively Identified Compound (TIC). The compound is presumptively identified but not confirmed with a standard.
P	Poor Precision / duplicate variance. Indicates poor agreement between duplicates (e.g. matrix spike duplicates or lab duplicates).
U	Not Detected. Analyte not detected above laboratory's established reporting limit.

Definitions and Other Explanations

*	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.
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

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.

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. 26G0459

YOUR Information	Report To:	Invoice To:	YOUR Project Number	Turn-Around Time
Company: Hydrotech Env. Eng. Geol	Company: SAME	Company: SAME	240052	RUSH - Next Day
Address: 291 W 29 St New York NY	Address:	Address:	YOUR Project Name: 152 Graham Avenue Brooklyn NY	RUSH - Two Day
Phone: 6312417165	Phone:	Phone:		RUSH - Three Day
Contact: Paul Math	Contact:	Contact:		RUSH - Four Day
E-mail:	E-mail:	E-mail:	YOUR PO#: 53269	RUSH - Five Day
				Standard (6-9 Day) ✓

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.

Eric Gaj

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
New Jersey
Connecticut
Pennsylvania
Other:

Report / EDD Type (circle selections)
Summary Report; QA Report; NY ASP A Package; NY ASP B Package
CT RCP; CT RCP DQA/DUE; NJDEP Reduced Deliverables; NJDKQP
Standard Excel EDD; EQuIS (Standard); NYSDEC EQuIS; 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/m³ ___ 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
IA-7 20260708	7/8/26 8:35	2:02	AI	-30	-8	24115	13564	6	EPA TO-15
IA-8	8:45	12:27		-30	-7	50358	20445		
IA-9	8:45	2:27		-30	-8	10013	07419		
IA-10	8:50	2:28		-30	-8	24114	7360		
OA-2	8:57	2:14	AO	-30	-9	37402	6870		

Comments: Min RL ≤ 0.2 ug/m³ Matrix A & C ≤ 0.1 ug/m³ Matrix B

Container Ship Date:

Detection Limits Required
≤ 1 ug/m3 _____ NYSDEC V1 Limits _____
Routine Survey ___ Other See Comments

1. Samples Relinquished by / Company	Date/Time	2. Samples Received by / Company	Date/Time
Eric Gaj / Eric Gaj	7/8/26	/ ALS	7/8/26 1545
2. Samples Received by / Company	Date/Time	2. Samples Relinquished by / Company	Date/Time
/ ALS	7/8/26 17:49		
3. Samples Relinquished by / Company	Date/Time	4. Samples Received by / Company	Date/Time
			7/8/26 17:49

Attachment 4

DUSR Report

DATA USABILITY SUMMARY REPORT (DUSR)

Prepared for HydroTech Environmental Engineering and Geologys D.P.C.

231 West 29th Street, Suite 1104, New York, NY, 10001

Laboratory: ALS Environmental / Queens, New York

EPA TO-15 – Volatile Organic Compounds (VOCs) in Air by GC/MS

Matrix: Indoor Ambient Air / Outdoor Ambient Air

Project Number: 152 Graham Avenue, Brooklyn, NY 240052

Sample Delivery Group (SDG): 26G0459

Report Date: July 21, 2026

Prepared by:

Dr. Mohammed Al-Qinna / QAQC

DUSR Report Date: August 10, 2026

Sincerely Yours



Certification Statement

I hereby certify that this Data Usability Summary Report (DUSR) represents an independent technical review of the Analytical Services Package (ASP) prepared by ALS Environmental for Sample Delivery Group (SDG) 26G0459.

The validation was performed using the documentation contained within the Analytical Services Package and in accordance with the validation methodology described in this report. The review included evaluation of laboratory documentation, analytical procedures, calibration records, quality assurance and quality control (QA/QC) documentation, instrument performance, laboratory quality control samples, analytical sequences, chain-of-custody documentation, and supporting analytical records.

The conclusions and data qualifications presented in this report are based solely on the documentation reviewed and represent my independent professional judgment regarding the analytical quality and technical usability of the laboratory data.

No interpretation of environmental conditions, contaminant sources, regulatory compliance, human health risk, ecological risk, or site conditions has been performed as part of this validation.

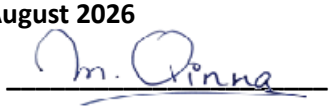
The opinions expressed herein apply only to the analytical quality of the laboratory data contained within Sample Delivery Group SDG 26G0459.

Prepared by

Dr. Mohammed I. Al-Qinna

Independent Environmental Data Validator

Date: 10 August 2026

Signature: 

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Executive Summary

This **Data Usability Summary Report (DUSR)** presents the results of an independent technical validation of the **Analytical Services Package (ASP)** prepared by **ALS Environmental – Queens** for **Hydro Tech Environmental** under the project **152 Graham Avenue, Brooklyn, New York 240052**. The validation applies to **Sample Delivery Group (SDG) 26G0459**, which includes volatile organic compound (VOC) analyses of indoor and outdoor ambient air samples performed using **EPA Compendium Method TO-15** (Gas Chromatography/Mass Spectrometry). The purpose of this review was to determine the completeness, technical quality, and overall usability of the laboratory-generated analytical data. The validation was limited to the analytical documentation contained within the ASP and did not include interpretation of environmental conditions, contaminant sources, regulatory compliance, human health risk, or site-specific decision-making.

The independent review included evaluation of the complete analytical package, including project documentation, sample inventory, chain-of-custody records, sample receipt documentation, laboratory case narrative, instrument performance records, calibration documentation, calibration verification records, internal standard performance, laboratory quality control samples, analytical sequence documentation, environmental analytical results, and supporting laboratory records. Each quality assurance and quality control (QA/QC) element was independently evaluated using a structured, weight-of-evidence approach before determining the overall technical usability of the analytical data.

The Analytical Services Package contained analytical results for **five environmental air samples**, consisting of **four indoor ambient air samples (IA-7 through IA-10)** and **one outdoor ambient air sample (OA-2)**, together with one laboratory reanalysis (**26G0459-03RE1**). All samples were analyzed by **EPA Method TO-15** using GC/MS instrumentation following the laboratory's documented analytical procedures.

The independent validation confirmed that the Analytical Services Package was **administratively complete** and contained sufficient documentation to support an independent technical review. Sample identification and chain-of-custody documentation demonstrated complete analytical traceability from sample receipt through reporting. Laboratory holding-time requirements were met for all samples, and no administrative deficiencies were identified that would affect the technical usability of the analytical data.

Review of the instrument performance documentation confirmed that the required mass spectrometer tuning, initial calibration, calibration verification, and continuing calibration verification were performed in accordance with the laboratory quality assurance procedures. Internal standard performance, analytical sequence documentation, and method blank results demonstrated acceptable analytical system performance throughout the analytical process. No significant laboratory contamination requiring qualification, instrument instability, or analytical sequence deficiencies was identified that would adversely affect the overall usability of the analytical dataset.

The independent review identified several **compound-specific quality control observations** that required further evaluation. The **Initial Calibration Verification (ICV/SCV)** identified acceptance criterion exceedances for **Ethyl Acetate** and **Vinyl Acetate**. Continuing Calibration Verification (CCV) identified calibration deviations for **Ethyl Acetate**, **Propylene**, and **1,2-Dichlorotetrafluoroethane**, while Laboratory Control Sample (Blank Spike) recoveries indicated low analytical recovery for **Propylene** and **Vinyl Acetate**. These observations were evaluated collectively using a weight-of-evidence approach and were considered together with the reported environmental sample results before assigning independent validator qualifiers.

Based on the integrated evaluation of all analytical and quality control information, independent validator qualifiers were assigned only where supported by the analytical evidence. In addition to compound-specific QA/QC observations, the environmental result review identified **23 detected concentrations reported between the applicable Method Detection Limits (MDLs) and Reporting Limits (RLs)**. These detections remain analytically valid but are considered quantitatively estimated and were assigned **J** qualifiers.

The five Ethyl Acetate detections are included within these 23 MDL–RL detections and are additionally supported for J qualification by compound-specific calibration verification uncertainty. They are counted only once in the final qualification totals. Propylene nondetects in IA-7, IA-8, IA-9, and IA-10 were qualified **UJ** because combined low Laboratory Control Sample recovery and low-bias Continuing Calibration Verification performance reduce confidence in analytical sensitivity. The detected Propylene concentration of **0.76 µg/m³ in OA-2** was qualified **J** because the same QA/QC conditions introduce quantitative uncertainty. All five Vinyl Acetate nondetects were qualified **UJ** because of recurring low Laboratory Control Sample recovery and associated calibration variability. The laboratory reporting flag TO-MPX associated with combined p- and m-Xylene reporting was determined to represent a reporting convention and does not independently affect data usability.

In total, **24 unique detected results were qualified J, nine non-detect results were qualified UJ, and no analytical results were rejected (R = 0)**. The 24 J-qualified results comprise the 23 detections between the applicable MDL and RL, including the five Ethyl Acetate detections, plus the additional OA-2 Propylene detection.

No deficiencies were identified that warrant rejection of the analytical dataset or indicate systematic failure of the analytical process. Instrument performance, calibration documentation, Internal Standard performance, Method Blank evaluation, Laboratory Control Sample performance, analytical sequence documentation, and sample traceability collectively support the technical validity of the dataset.

Based on the independent technical validation of the Analytical Services Package for SDG 26G0459, the analytical data are classified as **“Usable With Qualification.”** The qualifications are limited to discrete analytical results and do not compromise the overall integrity, completeness, or technical usability of the analytical dataset.

1. Introduction

1.1 Purpose of the Data Usability Summary Report

This Data Usability Summary Report (DUSR) documents the results of an independent technical evaluation of the Analytical Services Package (ASP) prepared by **ALS Environmental – Queens** for **Hydro Tech Environmental** under the project **152 Graham Avenue, Brooklyn, New York 240052**. The review applies to **Sample Delivery Group (SDG) 26G0459**, which contains analytical results for volatile organic compounds (VOCs) determined in indoor and outdoor ambient air samples using **EPA Compendium Method TO-15**.

The primary purpose of this DUSR is to determine whether the laboratory-generated analytical data are technically complete, supported by the required quality assurance and quality control (QA/QC) documentation, and suitable for their intended analytical use. The review provides an independent assessment of the analytical quality of the reported data by evaluating laboratory documentation, instrument performance, calibration, quality control samples, analytical sequences, and environmental analytical results.

1.2 Project Background

Hydro Tech Environmental retained ALS Environmental to perform laboratory analyses of ambient air samples collected as part of the environmental investigation for the above-referenced project. The laboratory performed VOC analyses using **EPA Compendium Method TO-15**, with results reported in the accompanying Analytical Services Package.

The laboratory package includes project documentation, sample receipt records, chain-of-custody documentation, analytical reports, quality control records, calibration documentation, instrument performance records, analytical sequence summaries, and supporting laboratory documentation necessary to perform an independent technical validation.

1.3 Scope of Independent Validation

The independent validation included a comprehensive review of the Analytical Services Package to evaluate the completeness, traceability, analytical quality, and technical usability of the laboratory-generated data. The review encompassed all principal laboratory quality assurance and quality control elements supporting the reported analytical results, including:

- Project and sample documentation;
- Chain-of-custody and sample receipt records;
- Holding-time compliance;
- Laboratory Case Narrative;
- Instrument performance (Mass Spectrometer Tune);
- Initial Calibration;
- Initial Calibration Verification (Second-Source Verification);
- Continuing Calibration Verification;

- Internal Standard performance;
- Method Blank results;
- Laboratory Control Sample (Blank Spike) performance;
- Analytical sequence integrity;
- Environmental analytical results; and
- Independent data qualification.

Each QA/QC element was evaluated independently before integrating the findings into the overall assessment of data usability.

1.4 Report Organization

This report is organized to present the validation process in a logical sequence, beginning with the validation framework and methodology, followed by detailed evaluations of each quality assurance and quality control element, and concluding with the overall data usability assessment and independent validation conclusions.

The detailed technical evaluations supporting the conclusions presented in this report are documented in the accompanying **Validation Worksheets (Forms I–XVI)**, which provide the complete audit trail for the independent validation process.

2. Project Information and Sample Inventory

2.1 Project Information

The Analytical Services Package (ASP) reviewed in this Data Usability Summary Report (DUSR) was prepared by **ALS Environmental – Queens** for **Hydro Tech Environmental** in support of the project identified as **152 Graham Avenue, Brooklyn, New York 240052**. The package includes analytical data for **Sample Delivery Group (SDG) 26G0459**, consisting of volatile organic compound (VOC) analyses of ambient air samples performed using **EPA Compendium Method TO-15**. The project information, laboratory identification, analytical method, and SDG designation were verified for consistency throughout the laboratory documentation.

Table 1. Project Information Summary

Item	Description
Project	152 Graham Avenue, Brooklyn, New York 240052
Client	Hydro Tech Environmental
Laboratory	ALS Environmental – Queens
Sample Delivery Group (SDG)	26G0459
Analytical Method	EPA Compendium Method TO-15
Analytical Technique	Gas Chromatography/Mass Spectrometry (GC/MS)
Matrix	Ambient Air
Laboratory Report Date	July 21, 2026

2.2 Analytical Services Package Overview

The Analytical Services Package contains the laboratory documentation required to independently evaluate the quality, completeness, and technical usability of the reported analytical data. The package includes administrative records, analytical reports, calibration documentation, quality assurance and quality control records, supporting raw data, and laboratory-generated forms documenting analytical performance. The independent review confirmed that the ASP contained sufficient documentation to support a comprehensive technical validation of the analytical data.

Table 2. Analytical Services Package Documentation Reviewed

Documentation Component	Included	Independent Review
Project Information	Yes	Completed
Sample Inventory	Yes	Completed
Chain-of-Custody Documentation	Yes	Completed
Sample Receipt Documentation	Yes	Completed
Laboratory Case Narrative	Yes	Completed
Instrument Performance Documentation	Yes	Completed
Initial Calibration	Yes	Completed
Initial Calibration Verification	Yes	Completed
Continuing Calibration Verification	Yes	Completed
Internal Standard Reports	Yes	Completed
Method Blank Documentation	Yes	Completed
Laboratory Control Sample Documentation	Yes	Completed
Analytical Sequence Documentation	Yes	Completed

Environmental Analytical Results	Yes	Completed
Supporting Raw Data	Yes	Completed

2.3 Environmental Sample Inventory

The Analytical Services Package includes analytical results for **five environmental air samples** and **one laboratory reanalysis**. The environmental samples consist of four indoor ambient air samples and one outdoor ambient air sample. One additional laboratory reanalysis (**26G0459-03RE1**) was performed and reported separately to resolve the analytical result for Acetone in sample IA-9. The sample inventory was verified against the laboratory analytical reports and chain-of-custody documentation.

Table 3. Environmental Sample Inventory

Laboratory Sample ID	Field Sample ID	Matrix	Sample Type
26G0459-01	IA-7	Ambient Air	Indoor Air
26G0459-02	IA-8	Ambient Air	Indoor Air
26G0459-03	IA-9	Ambient Air	Indoor Air
26G0459-04	IA-10	Ambient Air	Indoor Air
26G0459-05	OA-2	Ambient Air	Outdoor Air
26G0459-03RE1	IA-9 (Reanalysis)	Ambient Air	Laboratory Reanalysis

2.4 Analytical Method

Volatile organic compounds were analyzed by the laboratory using **EPA Compendium Method TO-15**, employing Gas Chromatography/Mass Spectrometry (GC/MS). The method is applicable to the determination of volatile organic compounds in air samples collected using passivated canisters and provides qualitative and quantitative identification of target analytes through calibration against certified reference standards.

The laboratory analytical procedures, instrument calibration, quality control program, and supporting analytical documentation were reviewed as part of the independent validation process to determine whether the reported analytical results were supported by the required quality assurance and quality control documentation.

Table 4. Analytical Method Summary

Parameter	Description
Analytical Method	EPA Compendium Method TO-15
Analytical Technique	Gas Chromatography/Mass Spectrometry (GC/MS)
Target Analytes	Volatile Organic Compounds (VOCs)
Matrix	Ambient Air
Calibration Approach	Multi-point Initial Calibration with Continuing Calibration Verification
Quality Control Elements	Initial Calibration, ICV/SCV, CCV, Internal Standards, Method Blanks, Laboratory Control Samples, Analytical Sequence Review

3. Validation Framework

3.1 Purpose

This chapter establishes the technical framework used to independently evaluate the analytical data contained within the Analytical Services Package (ASP). It defines the terminology, reporting conventions, laboratory quality control (QC) flags, independent validator qualifiers, and qualification philosophy applied throughout the validation process.

The objective of the validation framework is to provide a consistent basis for interpreting laboratory-generated analytical data and to ensure that all quality assurance and quality control (QA/QC) observations are evaluated using a transparent and technically defensible approach.

3.2 Limitations of Review

This Data Usability Summary Report (DUSR) presents the results of an independent technical review of the Analytical Services Package (ASP) prepared by ALS Environmental for Sample Delivery Group (SDG) **26G0459**.

The validation was performed solely on the basis of the documentation contained within the Analytical Services Package. The review included evaluation of laboratory administrative documentation, sample traceability, analytical methods, instrument performance, calibration records, quality assurance and quality control documentation, analytical sequences, laboratory quality control samples, environmental analytical results, and supporting laboratory records.

The scope of this review is limited to determining the **technical completeness, analytical quality, traceability, and usability** of the laboratory-generated data. This review does **not** include:

- Interpretation of environmental conditions;
- Assessment of contaminant sources or migration;
- Regulatory compliance determinations;
- Human health or ecological risk assessment;
- Remedial decision-making;
- Site characterization; or
- Evaluation of sampling procedures performed in the field.

The conclusions presented in this report apply only to the analytical data contained within SDG **26G0459** and should not be extrapolated beyond the laboratory documentation reviewed.

3.3 Laboratory Reporting Flags and Independent Validator Qualifiers

Laboratory-generated reporting flags and independent validator qualifiers are used in this Data Usability Summary Report (DUSR) for different purposes and shall not be treated interchangeably.

The **laboratory reporting fields** document analytical conditions, reporting conventions, and quality control observations assigned by the analytical laboratory. These include laboratory qualifiers such as **TO-CCV, TO-LCS-L, and TO-MPX**, together with separate CLP/result flags such as **U** and **D** where reported on the laboratory analytical result forms.

The **independent validator qualifiers** are assigned only after integration of all applicable quality assurance and quality control (QA/QC) information. Independent qualification therefore represents the validator's final technical assessment of the analytical result and does not merely reproduce a laboratory flag.

The environmental sample analytical result sheets for SDG 26G0459 clearly distinguish the laboratory qualifier field from the separate CLP Flag field. TO-CCV, TO-LCS-L, and TO-MPX occur within the laboratory qualifier field, whereas U and D are reported separately within the CLP Flag field. This distinction is maintained throughout the DUSR.

Table 5. Laboratory Reporting Flags

Designation	Description	Assigned By
U	Analyte reported as not detected in accordance with the laboratory reporting convention.	Laboratory / CLP reporting field
D	Laboratory/CLP flag associated with a result reported following dilution or other laboratory-specific reporting condition, as presented on the analytical result form.	Laboratory / CLP reporting field
TO-CCV	Laboratory qualifier indicating that the applicable analyte exhibited a Continuing Calibration Verification difference exceeding the laboratory acceptance criterion. The reported result may therefore be subject to quantitative uncertainty.	Laboratory
TO-LCS-L	Laboratory qualifier indicating low Laboratory Control Sample / Blank Spike recovery. The result may therefore be subject to low analytical bias or reduced analytical sensitivity.	Laboratory
TO-MPX	Laboratory reporting convention used for the combined reporting of p- and m-Xylene isomers. This designation is a reporting convention and does not, by itself, represent failed analytical QC.	Laboratory

Laboratory flags identify conditions documented by the analytical laboratory but **do not automatically result in independent data qualification**. Each condition is evaluated together with the applicable calibration results, LCS performance, Internal Standard performance, Method Blank results, analytical sequence information, environmental detection status, and other relevant QA/QC evidence.

Table 6. Independent Validator Qualifiers

Independent Qualifier	Definition	Application in this DUSR
None	Result accepted without additional independent qualification.	Applied where the reviewed QA/QC information does not materially affect analytical reliability or usability.
J	Detected concentration considered estimated.	Applied where analyte identification remains valid but quantitative uncertainty is present. This includes applicable detected results affected by calibration or recovery conditions and reported detections occurring between the MDL and RL.
UJ	Non-detect considered estimated.	Applied where the analyte was not detected but analytical uncertainty reduces confidence in the reported nondetect or associated reporting capability.
R	Result rejected.	Applied only where an analytical deficiency is sufficiently severe that the result is considered technically unusable.

3.3.1 Treatment of Results Reported Between the MDL and RL

The laboratory analytical result forms report both the **Method Detection Limit (MDL)** and the **Reporting Limit (RL)** and state that analytical results were reported to the MDL. Consequently, a compound may be positively identified at a concentration above the MDL but below the RL.

For purposes of this independent validation:

- a detected concentration **at or above the RL** requires no additional qualification solely because of its reporting level;
- a detected concentration **between the MDL and RL** is retained as a valid detection but is considered quantitatively estimated and is assigned **J**;
- a reported nondetect affected by a documented low-bias or reduced-sensitivity condition may be assigned **UJ** following integrated QA/QC evaluation; and
- no analytical result is assigned **R** unless the cumulative QA/QC evidence demonstrates that the result is technically unusable.

This approach preserves the distinction between **analytical detection**, **laboratory reporting conventions**, and **independent validator qualification**.

3.3.2 Qualification Philosophy

Independent validator qualifiers are assigned using a **weight-of-evidence approach**. A laboratory flag does not automatically determine the final independent qualifier.

Where multiple analytical conditions affect the same result, the final qualifier reflects the cumulative evidence without duplicating the qualification. For example, an Ethyl Acetate result may be independently subject to estimation because it is reported between the MDL and RL and may also be associated with a TO-CCV calibration condition. Such a result remains **J-qualified once**, rather than

receiving multiple or stronger qualifiers solely because more than one condition supports estimation. The qualification process therefore distinguishes among:

1. **laboratory-reported analytical conditions;**
2. **result reporting relative to the MDL and RL;**
3. **compound-specific QA/QC deficiencies;** and
4. **the final independent validator determination.**

No environmental screening criteria, contaminant concentrations of concern, risk-based thresholds, regulatory standards, or site-condition interpretations are used in assigning these analytical qualifiers.

3.4 Reporting Definitions

The analytical reporting terminology used throughout the Analytical Services Package and this DUSR is summarized below.

Table 7. Analytical Reporting Definitions

Term	Definition
VOC	Volatile Organic Compound analyzed using EPA Compendium Method TO-15.
GC/MS	Gas Chromatography/Mass Spectrometry analytical system.
MDL	Method Detection Limit established by the laboratory.
RL	Laboratory Reporting Limit.
ND	Not detected at or above the Reporting Limit.
Positive Hit	Analyte reported as detected by the laboratory; detected concentrations may occur at or above the RL or between the MDL and RL where results are reported to the MDL.
Estimated Result	Analytical result associated with documented analytical uncertainty.
SDG	Sample Delivery Group used for laboratory analytical tracking.
ASP	Analytical Services Package prepared by the laboratory.
LIMS	Laboratory Information Management System.

3.5 Quality Control Terminology

The following quality control elements were evaluated during the independent validation.

Table 8. Quality Control Terminology

QA/QC Element	Purpose
Chain-of-Custody	Verify complete sample traceability.
Sample Receipt	Confirm laboratory receipt and sample condition.
Holding Time	Verify compliance with analytical holding-time requirements.
Case Narrative	Review laboratory observations and analytical comments.
Mass Spectrometer Tune	Confirm acceptable instrument performance before analysis.
Initial Calibration	Establish instrument response before sample analysis.
Initial Calibration Verification (ICV/SCV)	Verify calibration accuracy using an independent standard.
Continuing Calibration Verification (CCV)	Verify calibration stability during analysis.
Internal Standards	Monitor instrument stability and chromatographic performance.
Method Blank	Evaluate laboratory contamination.
Laboratory Control Sample (Blank Spike)	Evaluate analytical accuracy and recovery.
Analytical Sequence	Verify analytical order and QA/QC traceability.
Environmental Sample Results	Evaluate reported analytical results.
Validator Qualification	Assign independent data qualifiers where appropriate.

3.6 Validator Qualification Philosophy

Independent validation was performed using a **weight-of-evidence** approach. No single quality control observation was used as the sole basis for assigning an independent qualifier unless the observed deficiency alone was sufficient to invalidate the associated analytical result.

Instead, qualification decisions were based on the combined evaluation of all applicable quality assurance and quality control information, including:

- Instrument performance;
- Calibration performance;
- Initial Calibration Verification;
- Continuing Calibration Verification;
- Internal Standard performance;
- Method Blank performance;
- Laboratory Control Sample recoveries;
- Analytical sequence integrity;
- Laboratory-assigned quality control flags; and
- Reported environmental sample results.

Where multiple quality control observations affected the same analyte, the final validator qualifier reflects the cumulative analytical evidence rather than any single QA/QC observation.

3.7 Quality Control Elements Evaluated

The independent validation included review of each principal quality assurance and quality control element supporting the reported analytical results.

Table 9. Quality Control Elements Evaluated

QA/QC Element	Reviewed	Report Section
Chain-of-Custody and Sample Receipt	Yes	**5.3**
Holding Times	Yes	**5.4**
Laboratory Case Narrative	Yes	**5.5**
Mass Spectrometer Tune	Yes	**5.6**
Initial Calibration	Yes	**5.7**
Initial Calibration Verification / Second-Source Verification	Yes	**5.8**
Continuing Calibration Verification	Yes	**5.9**
Internal Standards	Yes	**5.10**
Method Blanks	Yes	**5.11**
Laboratory Control Sample (LCS / Blank Spike)	Yes	**5.12**
Analytical Sequence	Yes	**5.13**
Environmental Sample Results	Yes	**5.13**
Independent Data Qualification	Yes	**5.14**
Overall Data Usability	Yes	**6.2**

4. Validation Methodology

4.1 Purpose

This chapter describes the methodology used to independently evaluate the analytical data contained within the Analytical Services Package (ASP). The validation methodology establishes the systematic approach used to assess analytical quality, verify compliance with laboratory quality assurance and quality control (QA/QC) requirements, identify analytical deficiencies where present, assign independent data qualifiers when warranted, and determine the overall technical usability of the laboratory-generated analytical data. The validation was performed using the complete documentation contained within Sample Delivery Group (SDG) **26G0459** and was limited to the analytical information provided in the ASP.

4.2 Validation Basis

The independent validation was performed using the quality assurance principles applicable to **EPA Compendium Method TO-15** together with the laboratory-specific quality control procedures documented within the Analytical Services Package. The review also incorporated accepted professional practices for third-party analytical data validation.

The validation included evaluation of laboratory administrative records, analytical methods, instrument performance, calibration documentation, quality control records, analytical sequences, environmental analytical results, and supporting laboratory documentation. Each quality control element was independently assessed before integrating the findings into the final data usability assessment.

4.3 Validation Workflow

The validation followed a structured sequence beginning with verification of sample documentation and traceability, followed by evaluation of analytical quality control elements and concluding with independent data qualification and overall data usability assessment.

4.4 Scope of Validation

The independent review included evaluation of all principal analytical and quality control elements supporting the reported laboratory results.

Table 10. Scope of Independent Validation

Validation Element	Validation Objective
Administrative Documentation	Verify completeness and consistency of project and laboratory records.
Chain-of-Custody	Confirm sample traceability from receipt through reporting.
Sample Receipt	Verify laboratory receipt, sample condition, and documentation.
Holding Times	Confirm compliance with laboratory holding-time requirements.
Laboratory Case Narrative	Review laboratory observations and reported analytical issues.
Instrument Performance	Verify acceptable mass spectrometer performance before analysis.
Initial Calibration	Confirm acceptable calibration prior to sample analysis.
Initial Calibration Verification	Evaluate calibration accuracy using an independent standard.
Continuing Calibration Verification	Verify calibration stability throughout analytical sequences.
Internal Standards	Assess instrument stability and chromatographic performance during analysis.
Method Blanks	Evaluate laboratory contamination.
Laboratory Control Samples	Assess analytical accuracy and recovery performance.
Analytical Sequences	Verify sequence integrity and QA/QC traceability.
Environmental Sample Results	Review reported analytical results and laboratory flags.
Independent Data Qualification	Assign independent qualifiers where appropriate.
Overall Data Usability	Determine the technical usability of the analytical dataset.

4.5 Validation Decision Process

Independent data qualification was performed using a structured weight-of-evidence approach. Individual quality control observations were not used independently to qualify analytical data unless the observed deficiency alone was sufficient to invalidate the associated analytical result. Instead, qualification decisions were based on the combined evaluation of:

- Instrument performance;
- Initial Calibration;
- Initial Calibration Verification (ICV/SCV);
- Continuing Calibration Verification (CCV);
- Internal Standard performance;
- Method Blank performance;
- Laboratory Control Sample (Blank Spike) recoveries;
- Analytical sequence integrity;
- Laboratory quality control flags; and
- Environmental analytical results.

Where multiple quality control observations affected the same analyte, the independent qualifier reflects the cumulative analytical evidence.

4.6 Validation Outputs

The independent validation resulted in:

- Verification of the completeness of the Analytical Services Package;
- Evaluation of each QA/QC element supporting the reported analytical data;
- Identification of analytical deficiencies, where applicable;
- Assignment of independent validator qualifiers;
- Determination of overall data usability; and
- Preparation of the validation worksheets supporting this Data Usability Summary Report.

5. Detailed Quality Assurance / Quality Control Review

5.1 Overview

The Analytical Services Package (ASP) for Sample Delivery Group (SDG) 26G0459 was independently reviewed to evaluate the completeness, technical quality, and analytical usability of the laboratory-generated data. The review included assessment of all administrative records, laboratory quality assurance and quality control (QA/QC) documentation, instrument performance records, calibration documentation, analytical sequences, laboratory quality control samples, and reported environmental analytical results.

Each QA/QC element was evaluated independently to determine compliance with the laboratory's documented analytical procedures and quality control requirements. The findings from the individual evaluations were subsequently integrated to determine the overall technical usability of the analytical dataset.

Detailed supporting evaluations are documented in the corresponding Validation Worksheets (Forms I–XVI) presented in Appendix C.

5.2 Summary of QA/QC Review

Before presenting the detailed evaluation of each quality control element, an overview of the independent validation findings is provided in Table 10.

Table 11. Summary of Independent QA/QC Review

QA/QC Element	Independent Evaluation	Data Qualification Required
Chain-of-Custody and Sample Receipt	Acceptable	No
Holding Times	Acceptable	No
Laboratory Case Narrative	Acceptable	No
Mass Spectrometer Tune	Acceptable	No
Initial Calibration	Acceptable	No
Initial Calibration Verification (ICV/SCV)	Acceptable with observations	No
Continuing Calibration Verification (CCV)	Acceptable with compound-specific observations	Yes
Internal Standards	Acceptable	No
Method Blanks	Acceptable	No
Laboratory Control Samples (Blank Spike)	Acceptable with compound-specific observations	Yes
Analytical Sequence	Acceptable	No
Environmental Sample Results	Acceptable with qualification	Yes
Overall Data Usability	Usable with Qualification	Yes

The quality control observations identified during the review were limited to specific analytes and did not indicate a systematic deficiency affecting the overall analytical dataset.

5.3 Chain-of-Custody and Sample Receipt Review

A review of the Chain-of-Custody documentation and laboratory sample receipt records confirmed that all environmental samples were received, logged, and tracked in accordance with the laboratory's documented procedures. Sample identification remained consistent throughout the Analytical Services Package, and complete traceability was maintained from laboratory receipt through final reporting.

No discrepancies were identified in sample identification, custody documentation, or laboratory receipt records that would adversely affect the analytical validity or usability of the reported results. Supporting documentation: Validation Worksheet – Form I.

5.4 Holding Time Review

Analytical holding times were reviewed to verify compliance with the laboratory's documented analytical requirements. The review confirmed that all environmental samples were analyzed within the applicable holding-time requirements for EPA Compendium Method TO-15.

No holding-time exceedances were identified, and no analytical results require qualification on the basis of holding-time compliance. Supporting documentation: Validation Worksheet – Form II.

5.5 Laboratory Case Narrative Review

The laboratory Case Narrative was reviewed to identify analytical observations, laboratory quality control comments, and reported analytical deviations that could influence data usability.

Laboratory quality control flags identified within the Case Narrative were evaluated independently throughout this report and considered together with the supporting quality control documentation before assigning any independent validator qualifiers. No additional deficiencies requiring immediate qualification of analytical results were identified solely from the Case Narrative. Supporting documentation: Validation Worksheet – Form III.

5.6 Mass Spectrometer Tune Review

Instrument performance was evaluated through review of the Mass Spectrometer Tune documentation to verify acceptable GC/MS performance prior to environmental sample analysis.

The review confirmed that instrument tuning documentation was complete and supported the analytical sequences associated with SDG 26G0459. No instrument performance deficiencies were identified that would adversely affect analytical data quality. Supporting documentation: Validation Worksheet – Form IV.

5.7 Initial Calibration Review

The Initial Calibration documentation was reviewed to verify that instrument calibration was completed before environmental sample analysis and that the laboratory established acceptable calibration performance for the target analytes.

The review confirmed that the calibration documentation was complete and technically adequate to support quantitative analysis of the reported VOC concentrations. No deficiencies were identified requiring qualification of analytical data based on the Initial Calibration review. Supporting documentation: Validation Worksheet – Form V.

5.8 Initial Calibration Verification (Second Source)

The Initial Calibration Verification (ICV/SCV) was reviewed to evaluate calibration accuracy using an independent reference standard. The review identified compound-specific observations for Ethyl Acetate and Vinyl Acetate, which exceeded the laboratory acceptance criteria during second-source verification. These observations were not considered independently sufficient to qualify environmental sample results but were carried forward and evaluated together with subsequent quality control elements. Supporting documentation: Validation Worksheet – Form VI.

5.9 Continuing Calibration Verification

Continuing Calibration Verification (CCV) documentation was reviewed to evaluate calibration stability throughout the analytical sequences. Most target analytes satisfied the laboratory acceptance criteria. Compound-specific calibration deviations were identified for Ethyl Acetate, Propylene, and 1,2-Dichlorotetrafluoroethane. These observations were integrated with Laboratory Control Sample performance and environmental sample results before determining the final independent data qualification. Supporting documentation: Validation Worksheet – Form VII.

5.10 Internal Standard Performance

Internal Standard response areas and retention times were reviewed to evaluate analytical system stability during environmental sample analysis. The review confirmed acceptable Internal Standard performance throughout the analytical sequences. No deficiencies requiring qualification of analytical data were identified. Supporting documentation: Validation Worksheet – Form VIII.

5.11 Method Blank Review

Method Blank analyses were reviewed to evaluate whether laboratory contamination was introduced during sample preparation, analytical handling, or instrumental analysis and whether any blank detections could affect the technical usability of the associated environmental sample results.

Two Method Blanks were included in the Analytical Services Package (ASP):

- **BG60574-BLK1**, associated with Batch BG60574 and the five primary environmental samples IA-7, IA-8, IA-9, IA-10, and OA-2; and
- **BG60588-BLK1**, associated with Batch BG60588 and the IA-9 laboratory reanalysis 26G0459-03RE1.

The blank-to-batch and blank-to-sample associations were confirmed from the analytical sequence and sample reporting documentation.

Table 12. Method Blank Identification and Association

Method Blank	Batch	Analytical Sequence	Associated Environmental Data
BG60574-BLK1	BG60574	S6G1321	IA-7, IA-8, IA-9, IA-10, OA-2
BG60588-BLK1	BG60588	S6G1401	IA-9 reanalysis (26G0459-03RE1)

Review of the complete target VOC results confirmed that **no target VOC was detected at or above its laboratory Reporting Limit (RL) in either Method Blank**.

The only compound reported above the laboratory Method Detection Limit (MDL) was **Isopropanol**. It was detected in both Method Blanks but remained below the applicable RL of 1.5 µg/m³.

Table 13. Detected Compounds in Method Blanks

Method Blank	Compound	Result (µg/m³)	RL (µg/m³)	MDL (µg/m³)	Assessment
BG60574-BLK1	Isopropanol	**0.37**	1.5	0.059	Detected below RL
BG60588-BLK1	Isopropanol	**0.61**	1.5	0.059	Detected below RL

All remaining target VOC analytes were reported as non-detects in both Method Blanks.

The Method Blank results were compared with the associated environmental sample data. For Batch BG60574, the environmental Isopropanol concentrations were **16 µg/m³ in IA-7, 15 µg/m³ in IA-8, 48 µg/m³ in IA-9, 20 µg/m³ in IA-10, and 5.7 µg/m³ in OA-2**. These concentrations are substantially greater than the **0.37 µg/m³** Isopropanol concentration reported in BG60574-BLK1.

Accordingly, the environmental Isopropanol detections cannot reasonably be attributed to the low-level laboratory blank response.

BG60588-BLK1 contained Isopropanol at **0.61 µg/m³**; however, the associated reanalysis **26G0459-03RE1** reports Acetone only. Therefore, the Isopropanol detection in BG60588-BLK1 has no direct effect on the reported IA-9 reanalysis result.

The supporting laboratory documentation, including Method Blank data sheets, quantitation reports, chromatographic records, and ion-profile information, was consistent with the analytical result tables. No additional blank-related contamination condition was identified.

Table 14. Method Blank Performance Summary

Evaluation Item	BG60574-BLK1	BG60588-BLK1
Complete target VOC list evaluated	Yes	Yes
VOCs detected above RL	None	None
VOCs detected below RL	Isopropanol	Isopropanol
Isopropanol result	0.37 µg/m³	0.61 µg/m³
Isopropanol RL	1.5 µg/m³	1.5 µg/m³
Significant laboratory contamination	None identified	None identified
Independent qualification required	No	No

The Method Blank review therefore identified **no laboratory contamination requiring qualification of the associated environmental analytical results**. The low-level Isopropanol responses are retained as documented QA/QC observations but do not materially affect the technical usability of the data. **Supporting documentation: Validation Worksheet – Form IX.**

5.12 Laboratory Control Sample (LCS / Blank Spike) Review

Laboratory Control Sample (LCS), identified in the Analytical Services Package (ASP) as the **Blank Spike**, performance was evaluated to assess analytical accuracy for the target VOCs. The evaluation compared measured LCS concentrations with known spike concentrations and the laboratory-established recovery acceptance criteria.

Two LCS/Blank Spike samples were reviewed for SDG **26G0459**:

- **BG60574-BS1**, associated with Batch BG60574 and the five primary environmental samples IA-7, IA-8, IA-9, IA-10, and OA-2; and
- **BG60588-BS1**, associated with Batch BG60588 and the laboratory reanalysis of IA-9 (26G0459-03RE1).

The laboratory-established LCS recovery acceptance criterion was **70–130%**. Most target analytes were fortified at a nominal concentration of **10.0 ppbv**, while p- & m-Xylenes were fortified at **20.0 ppbv**.

Table 15. LCS / Blank Spike Identification and Batch Association

LCS / Blank Spike	Batch	Preparation	Matrix	Associated Environmental Data
BG60574-BS1	BG60574	EPA TO15 PREP	Air	IA-7, IA-8, IA-9, IA-10, OA-2
BG60588-BS1	BG60588	EPA TO15 PREP	Air	IA-9 reanalysis (26G0459-03RE1)

Review of the LCS results demonstrates acceptable analytical recovery for the majority of target VOCs in both analytical batches. However, **Propylene and Vinyl Acetate exhibited recoveries below the laboratory lower acceptance limit of 70% in both batches**.

For BG60574-BS1, Propylene recovered at **62.4%**, while Vinyl Acetate recovered at **57.0%**. For BG60588-BS1, Propylene recovered at **60.6%**, while Vinyl Acetate recovered at **47.0%**.

The recurrence of the same two low-recovery analytes in both analytical batches indicates an analyte-specific low-recovery condition rather than an isolated single-batch QC observation.

Table 16. LCS Recovery Exceptions Across Analytical Batches

Analyte	BG60574 Recovery (%)	BG60588 Recovery (%)	Acceptance Range (%)	Direction	Repeated Exception
Propylene	**62.4**	**60.6**	70–130	Low	**Yes**
Vinyl Acetate	**57.0**	**47.0**	70–130	Low	**Yes**

The remaining target VOCs satisfied the laboratory-established recovery criterion. Representative acceptable recoveries included Benzene, Chloroform, Cyclohexane, Ethyl Acetate, Isopropanol, Naphthalene, o-Xylene, p- & m-Xylenes, Tetrachloroethylene, Toluene, Trichloroethylene, and Vinyl Chloride.

Of particular importance to the integrated qualification assessment, **Ethyl Acetate demonstrated acceptable LCS recovery in both analytical batches**, with recoveries of **78.4% in BG60574** and **73.7% in BG60588**. Therefore, the LCS data do not independently indicate an analytical recovery deficiency for Ethyl Acetate. Any independent qualification applied to Ethyl Acetate must instead be supported by the applicable calibration verification and reporting-level evidence.

Table 17. Compound-Specific LCS Assessment

Analyte	BG60574	BG60588	Environmental Result Status	Validator Assessment
Propylene	62.4%	60.6%	ND in IA-7, IA-8, IA-9 and IA-10; detected at 0.76 µg/m³ in OA-2	Recurring low recovery; potential low bias/reduced sensitivity; carry forward with CCV findings
Vinyl Acetate	57.0%	47.0%	ND in all five primary samples	Recurring low recovery; reduced analytical sensitivity; carry forward to integrated qualification
Ethyl Acetate	78.4%	73.7%	Detected in primary environmental samples	LCS acceptable; no LCS-related qualification
Remaining Target VOCs	Within limits	Within limits	Detected and/or non-detected	No LCS-related qualification based on LCS performance

5.12.1 Relationship to Environmental Sample Results

Review of the environmental analytical result sheets confirms that the laboratory propagated the LCS-related QC condition to the applicable sample results.

For **Propylene**, IA-7, IA-8, IA-9, and IA-10 were reported as non-detects, while OA-2 contained a reported Propylene concentration of **0.76 µg/m³**. These results carry the laboratory **TO-LCS-L** condition. Propylene also carries **TO-CCV**, reflecting the separate Continuing Calibration Verification condition.

For **Vinyl Acetate**, all five primary environmental samples were reported as non-detects and carry the laboratory **TO-LCS-L** condition.

Neither Propylene nor Vinyl Acetate was reported in the IA-9 reanalysis result form. Consequently, although BG60588-BS1 confirms recurrence of the low-recovery condition, no Propylene or Vinyl Acetate result from the reanalysis itself requires qualification.

Table 18. Relationship Between LCS Exceptions and Environmental Results

Analyte	LCS Condition	IA-7	IA-8	IA-9	IA-10	OA-2	IA-9 RE1
Propylene	Low recovery in both batches	ND; TO-CCV + TO-LCS-L	ND; TO-CCV + TO-LCS-L	ND; TO-CCV + TO-LCS-L	ND; TO-CCV + TO-LCS-L	**0.76 µg/m³; TO-CCV + TO-LCS-L**	Not reported
Vinyl Acetate	Low recovery in both batches	ND; TO-LCS-L	ND; TO-LCS-L	ND; TO-LCS-L	ND; TO-LCS-L	ND; TO-LCS-L	Not reported

5.12.2 Independent Validator Assessment

The LCS results demonstrate acceptable analytical accuracy for the large majority of target VOCs. No evidence was identified of a systematic LCS failure affecting the complete analytical batch or target analyte list.

The exceptions are limited to **Propylene and Vinyl Acetate**, both of which exhibited low recovery in two separate LCS analyses. The repeated direction of the exceptions indicates potential **low quantitative bias and/or reduced analytical sensitivity** for these compounds.

For a detected result, low recovery may indicate that the reported concentration is quantitatively biased low. For a non-detect, low recovery may reduce confidence in the analytical sensitivity associated with the reported nondetect.

The LCS observations are therefore significant to the final compound- and result-specific qualification assessment but **do not independently warrant rejection of either analytical batch or the dataset as a whole**.

Propylene requires particular consideration because the environmental results are affected by both **TO-LCS-L and TO-CCV**. Accordingly, its final qualification must integrate the LCS and CCV evidence.

Vinyl Acetate requires evaluation of the five primary non-detects because low LCS recovery occurred in both analytical batches and indicates reduced analytical sensitivity.

In contrast, Ethyl Acetate exhibited acceptable LCS recovery. Consequently, **no LCS-related qualification is warranted for Ethyl Acetate**.

Final independent **J, UJ, or R** assignments are not made solely from the LCS observations in this section. These findings are carried forward and integrated with the applicable calibration verification results, environmental detection status, reporting level, and other QA/QC evidence in the Independent Data Qualification section.

5.12.3 Conclusion

The independent LCS/Blank Spike review confirms acceptable analytical recovery for the majority of target VOCs associated with SDG 26G0459. Two recurring analyte-specific exceptions were identified:

- **Propylene:** 62.4% recovery in BG60574 and 60.6% in BG60588; and
- **Vinyl Acetate:** 57.0% recovery in BG60574 and 47.0% in BG60588.

Both analytes exhibited recovery below the laboratory-established lower acceptance criterion of **70% in both analytical batches**. The repeated low-recovery pattern supports an analyte-specific potential for low bias and/or reduced analytical sensitivity.

The laboratory appropriately carried **TO-LCS-L** to the applicable environmental results. Propylene additionally carries **TO-CCV**, requiring integration of both QC conditions during final qualification.

Ethyl Acetate recoveries of **78.4% and 73.7%** were within laboratory limits; therefore, the LCS data provide no independent basis for qualification of Ethyl Acetate.

No analytical batch rejection or dataset-wide qualification is warranted on the basis of LCS performance. The Propylene and Vinyl Acetate findings are carried forward to the **Independent Data Qualification** assessment. **Supporting documentation: Validation Worksheet – Form X.**

5.13 Analytical Sequence and Environmental Sample Results

5.13.1 Purpose and Scope

The environmental sample analytical results and associated analytical sequence documentation were reviewed to establish the relationship between the reported VOC concentrations, laboratory reporting limits, Method Detection Limits (MDLs), laboratory qualifiers, analytical batches, and supporting QA/QC results.

The review included the five primary environmental air samples collected on **08 July 2026** and the laboratory reanalysis of IA-9. The primary samples were analyzed on **10 July 2026** under analytical sequence **S6G1321**, while the IA-9 reanalysis was performed on **13 July 2026** under analytical sequence **S6G1401**. This review provides the analytical basis for the result-specific independent qualification presented in Section 5.14 and Form XIII.

5.13.2 Environmental Samples Reviewed

Five environmental samples were included in the primary analytical dataset:

- IA-7;
- IA-8;
- IA-9;
- IA-10; and
- OA-2.

IA-7 through IA-10 represent **Indoor Ambient Air**, while OA-2 represents **Outdoor Ambient Air**. A laboratory reanalysis of IA-9, identified as **26G0459-03RE1**, was also included in the ASP.

Table 19. Environmental Samples and Analytical Sequences Reviewed

Laboratory Sample	Laboratory ID	Matrix	Collection Date	Analysis Date	Analytical Sequence
IA-7	26G0459-01	Indoor Ambient Air	08 Jul 2026	10 Jul 2026	S6G1321
IA-8	26G0459-02	Indoor Ambient Air	08 Jul 2026	10 Jul 2026	S6G1321
IA-9	26G0459-03	Indoor Ambient Air	08 Jul 2026	10 Jul 2026	S6G1321
IA-9 (Reanalysis)	26G0459-03RE1	Indoor Ambient Air	08 Jul 2026	13 Jul 2026	S6G1401
IA-10	26G0459-04	Indoor Ambient Air	08 Jul 2026	10 Jul 2026	S6G1321
OA-2	26G0459-05	Outdoor Ambient Air	08 Jul 2026	10 Jul 2026	S6G1321

The analytical sequence records confirm that the five primary environmental samples were analyzed within the same analytical sequence and supported by the applicable calibration verification, Internal Standard, Method Blank, and LCS/Blank Spike QC records. The IA-9 reanalysis was performed subsequently under a separate analytical sequence and was supported by the corresponding QC batch.

5.13.3 Analytical Method and Reporting Basis

The environmental samples were analyzed for target VOCs using **EPA Method TO-15**, with laboratory sample preparation identified as **EPA TO15 PREP**.

Table 20. Environmental Sample Analytical Summary

Evaluation Item	Result
Analytical Method	EPA TO-15
Sample Preparation	EPA TO15 PREP
Matrix	Indoor and Outdoor Ambient Air
Primary Environmental Samples	5
Laboratory Reanalysis	1
Primary Analytical Sequence	S6G1321
Reanalysis Sequence	S6G1401

The laboratory analytical result forms report concentrations in **µg/m³** together with applicable Reporting Limits (RLs), Method Detection Limits (MDLs), laboratory qualifiers, and CLP/result flags.

The analytical results were therefore evaluated at the individual analyte-result level rather than solely by sample or analytical batch.

5.13.4 Reporting Limit and Method Detection Limit Evaluation

The laboratory result forms provide both an **MDL** and an **RL** for the target analytes.

For purposes of this independent review, the distinction between these two reporting thresholds is important:

- results reported below the MDL are not treated as positive analytical detections;
- results reported above the MDL but below the RL represent analytically detected compounds at concentrations below the routine quantitative reporting level;
- results at or above the RL represent reported detections at or above the laboratory quantitative reporting threshold; and
- non-detected results are evaluated together with the applicable QA/QC conditions affecting analytical sensitivity.

The analytical result package includes a number of positive VOC detections occurring **between the MDL and RL**. These results are retained as valid detections but require evaluation as estimated concentrations during independent qualification. The detailed result-specific treatment of these detections is presented in **Section 5.14 and Form XIII**.

5.13.5 Laboratory Qualifiers and Result Flags

The environmental sample result forms include laboratory qualifiers and separate CLP/result flags. These designations were reviewed independently rather than automatically adopted as validator qualifiers.

The principal laboratory conditions relevant to the environmental sample dataset were:

Table 21. Laboratory Qualifiers and Reporting Flags Identified in Environmental Results

Laboratory Designation	Analytical Meaning	Independent Review Treatment
TO-CCV	Continuing Calibration Verification condition associated with the analyte	Evaluated with Forms VI/VII and result detection status
TO-LCS-L	Low LCS/Blank Spike recovery	Evaluated with Form X and result detection status
TO-MPX	Combined p- & m-Xylene reporting convention	Reporting convention; not independently treated as failed QC
U	Laboratory/CLP nondetect flag	Retained as laboratory reporting information; independent qualification evaluated separately
D	Laboratory/CLP reporting flag associated with dilution or applicable laboratory reporting condition	Evaluated with dilution and result documentation

The presence of a laboratory qualifier does **not automatically determine the independent validator qualifier**. Final qualification is based on the cumulative QA/QC evidence.

5.13.6 Dilution Review

Dilution information reported on the environmental analytical result forms was reviewed to determine whether sample dilution affected reporting limits, compound quantitation, or overall analytical usability.

Where a result was reported from a diluted analysis, the associated dilution condition was retained as part of the laboratory analytical record. Dilution itself was not treated as an analytical deficiency provided that the reported concentration and corresponding reporting limits reflected the applicable dilution factor and the analytical result remained technically supported.

No sample was rejected solely because a dilution was performed. The effect of dilution on any individual result requiring additional independent qualification is incorporated into the result-specific assessment in Section 5.14.

5.13.7 Detected Target VOCs

A range of target VOCs was detected in the five primary environmental samples. The detected compounds and reported concentrations were reviewed against their corresponding MDLs, RLs, laboratory qualifiers, and applicable QC performance.

Table 22. Detected Target VOCs by Environmental Sample

Analyte	IA-7	IA-8	IA-9	IA-10	OA-2
2,2,4-Trimethylpentane	0.67	ND	0.44	0.75	0.47
Naphthalene	1.2	0.93	0.89	1.4	1.9
1,2,4-Trimethylbenzene	2.6	3.3	6.3	6.3	0.59
1,3,5-Trimethylbenzene	0.80	0.97	2.0	2.2	ND
1,3-Butadiene	ND	0.25	0.85	4.8	ND
2-Butanone	1.5	1.2	4.2	4.9	2.4
2-Hexanone	ND	ND	ND	0.43	0.45
4-Methyl-2-pentanone	ND	ND	0.42	ND	1.5
Acetone	18	25	RE1	56	21
Benzene	3.6	0.90	0.93	0.66	0.39
Bromodichloromethane	0.70	ND	ND	ND	ND
Carbon disulfide	ND	ND	0.50	ND	ND
Chloroform	9.7	2.2	4.4	6.5	ND
Chloromethane	1.2	0.97	1.3	1.1	0.96
Cyclohexane	1.1	0.65	3.5	2.7	0.62
Dichlorodifluoromethane	1.6	1.6	1.7	1.6	1.6
Ethyl Acetate	1.4	1.2	2.7	2.6	1.3
Ethylbenzene	0.95	0.94	5.5	9.2	ND
Isopropanol	16	15	48	20	5.7
Methyl Methacrylate	0.39	0.58	ND	0.46	ND
Methylene chloride	0.40	0.33	0.52	ND	0.38
n-Heptane	ND	ND	1.2	0.74	ND
n-Hexane	ND	0.40	0.63	0.57	0.35
o-Xylene	1.2	1.2	5.4	9.0	ND
p- & m-Xylenes	4.6	4.9	31	71	1.4
p-Ethyltoluene	1.4	1.9	3.6	3.4	0.69
Propylene	ND	ND	ND	ND	0.76
Styrene	ND	ND	0.92	ND	ND
Tetrachloroethylene	3.2	2.8	4.3	2.7	2.0
Tetrahydrofuran	0.42	ND	ND	ND	ND
Toluene	1.9	1.7	4.1	2.8	1.3
Trichloroethylene	ND	ND	1.6	1.3	ND
Trichlorofluoromethane (Freon 11)	1.1	1.1	1.1	1.1	1.2

Units: µg/m³. ND = reported not detected.

This table documents the reported concentrations only. **It should not be interpreted as the final qualification table.** Whether a particular detected concentration requires J qualification depends on its relationship to the applicable RL/MDL and the relevant compound-specific QA/QC findings.

5.13.8 IA-9 Reanalysis

The laboratory performed a reanalysis of IA-9, identified as **26G0459-03RE1**, on **13 July 2026** under analytical sequence **S6G1401**.

The reanalysis was performed specifically for **Acetone** and therefore should not be interpreted as a complete reanalysis of the full TO-15 target analyte list.

The original IA-9 result table identifies Acetone as **RE1**, directing the reviewer to the reanalysis result. The reanalysis reported Acetone at **120 µg/m³**.

Table 23. IA-9 Reanalysis Summary

Evaluation Item	Result
Original Sample	IA-9
Laboratory ID	26G0459-03
Reanalysis ID	26G0459-03RE1
Reanalysis Date	13 Jul 2026
Analytical Sequence	S6G1401
Compound Reanalyzed	Acetone
Original Result Presentation	RE1
Reanalysis Result	**120 µg/m³**
Full Target List Reanalyzed	No
Independent Treatment	Evaluate reanalysis as the reported Acetone result

The IA-9 reanalysis should therefore remain analytically distinct from the original full target-list analysis. It should not be used to replace or reinterpret the other VOC results reported for IA-9.

5.13.9 QA/QC Traceability to Environmental Results

Each environmental result was evaluated against the QA/QC information applicable to its analytical batch.

Table 24. Environmental Sample-to-QC Traceability Matrix

Environmental Data	Sequence	Method Blank	LCS / Blank Spike	Internal Standards	Calibration Verification
IA-7	S6G1321	BG60574-BLK1	BG60574-BS1	Acceptable	Applicable ICV/CCV reviewed
IA-8	S6G1321	BG60574-BLK1	BG60574-BS1	Acceptable	Applicable ICV/CCV reviewed
IA-9	S6G1321	BG60574-BLK1	BG60574-BS1	Acceptable	Applicable ICV/CCV reviewed
IA-10	S6G1321	BG60574-BLK1	BG60574-BS1	Acceptable	Applicable ICV/CCV reviewed
OA-2	S6G1321	BG60574-BLK1	BG60574-BS1	Acceptable	Applicable ICV/CCV reviewed
IA-9 RE1	S6G1401	BG60588-BLK1	BG60588-BS1	Acceptable	Applicable reanalysis QC reviewed

This traceability establishes the QA/QC basis necessary for result-specific qualification.

5.13.10 Independent Validator Assessment

Review of the environmental analytical result package confirms that the five primary environmental samples and the IA-9 reanalysis are traceable to their respective analytical sequences and associated laboratory QA/QC records.

The environmental dataset contains:

- positive detections at or above applicable reporting levels;
- positive detections occurring between the MDL and RL;
- non-detected target analytes;
- analytes associated with TO-CCV;
- analytes associated with TO-LCS-L;
- p- & m-Xylenes associated with TO-MPX;
- results subject to laboratory dilution/reporting conditions; and
- the separate IA-9 Acetone reanalysis.

These conditions do not have equivalent analytical significance and therefore require result-specific evaluation. In particular, the presence of positive detections **between the MDL and RL** requires explicit consideration during independent qualification. These detections remain analytically valid but carry greater quantitative uncertainty than results reported at or above the RL.

Similarly, Propylene and Vinyl Acetate require integration of the LCS findings with their environmental detection status, while Propylene additionally requires consideration of the CCV findings. Ethyl Acetate requires consideration of the applicable CCV condition even though its LCS recovery was acceptable.

No final validator qualifier is assigned in this section. Final **J, UJ, R, or no-additional-qualification** determinations are made in Section 5.14 based on the cumulative analytical evidence.

5.13.11 Conclusion

The environmental sample result review confirms that the analytical data for SDG 26G0459 are sufficiently documented and traceable to permit result-specific independent validation.

The five primary environmental samples were analyzed under sequence **S6G1321**, while the IA-9 Acetone reanalysis was performed under **S6G1401**. Applicable Method Blank, LCS/Blank Spike, Internal Standard, calibration verification, and analytical sequence documentation were available for evaluation.

The review identified several categories requiring consideration during final qualification, including:

- detections between the MDL and RL;
- Propylene results affected by **TO-CCV and TO-LCS-L**;
- Vinyl Acetate non-detects affected by **TO-LCS-L**;
- Ethyl Acetate results associated with **TO-CCV**;
- p- & m-Xylene results carrying the **TO-MPX** reporting convention; and
- the IA-9 Acetone reanalysis.

These observations are carried forward to **Section 5.14 – Independent Data Qualification Review** and **Form XIII**, where the final result-specific independent qualifiers are assigned. **Supporting documentation: Validation Worksheets – Forms XI and XII.**

5.14 Independent Data Qualification Review

5.14.1 Validation Basis

Independent data qualification was performed by integrating the environmental analytical results with the QA/QC findings documented in the preceding sections. The assessment considered:

- sample receipt and Chain-of-Custody documentation;
- analytical holding times;
- Mass Spectrometer tune performance;
- Initial Calibration;
- Initial Calibration Verification / Second-Source Verification;
- Continuing Calibration Verification (CCV);
- Internal Standard performance;
- Method Blank results;
- Laboratory Control Sample / Blank Spike performance;
- analytical sequence integrity;
- Reporting Limits (RLs) and Method Detection Limits (MDLs);
- laboratory qualifiers and CLP/result flags; and
- environmental sample detection status.

The qualification process was applied at the **individual analytical-result level**. Laboratory qualifiers were not automatically adopted as independent validator qualifiers. Instead, each result was evaluated using the cumulative QA/QC evidence and the qualification framework established in Section 3.3. No environmental screening criteria, regulatory standards, risk-based concentrations, or site-condition considerations were used in assigning analytical qualifiers.

5.14.2 Independent Qualification Decision Framework

Table 25. Independent Qualification Decision Framework

Analytical / QA/QC Condition	Detected Result	Non-Detect Result	Independent Treatment
No relevant QC exception; result ≥ RL	Accepted	—	None
Detection between MDL and RL	Quantitatively estimated	—	**J**
Low-bias CCV condition	Estimated where applicable	Estimated nondetect where sensitivity may be affected	**J or UJ**, depending on detection status
Low LCS recovery	Estimated where recovery affects detected concentration	Estimated nondetect where reduced sensitivity is indicated	**J or UJ**, depending on detection status
Multiple conditions supporting estimation	Estimated once	Estimated once	Do not duplicate qualifier
TO-MPX reporting convention only	Accepted	—	None
Analytical deficiency rendering result unusable	Rejected	Rejected	**R**

5.14.3 Results Detected Between the MDL and RL

The laboratory result forms report analytical concentrations to the MDL. Consequently, a number of positive VOC detections were reported at concentrations **above the MDL but below the applicable RL**.

Such results represent analytically identified compounds but carry greater quantitative uncertainty than results reported at or above the RL. Accordingly, these detections are retained as valid but assigned an independent **J** qualifier.

The detailed analytical review identified **23 reported detections between the MDL and RL**. These detections are therefore considered estimated for independent validation purposes. The second analytical review explicitly identifies these 23 detections as requiring J treatment.

Table 26. Qualification of Results Between MDL and RL

Evaluation Item	Independent Assessment
Reporting Basis	Results reported to MDL
Result > MDL but < RL	Valid detection with quantitative uncertainty
Independent Qualifier	**J**
Number of Reported MDL–RL Detections	**23**
Data Rejection Required	No

These results remain technically usable and should not be interpreted as rejected or invalid detections.

5.14.4 Ethyl Acetate Qualification

Ethyl Acetate was detected in all five primary environmental samples:

Sample	Result (µg/m³)	Laboratory Qualifier	Independent Qualifier
IA-7	1.4	TO-CCV	**J**
IA-8	1.2	TO-CCV	**J**
IA-9	2.7	TO-CCV	**J**
IA-10	2.6	TO-CCV	**J**
OA-2	1.3	TO-CCV	**J**

Ethyl Acetate exhibited compound-specific calibration verification uncertainty. In contrast, its LCS recoveries were acceptable at **78.4% in BG60574** and **73.7% in BG60588**.

Accordingly, the LCS does not independently indicate an Ethyl Acetate recovery deficiency. The J qualification is supported by the calibration evidence and the result-reporting relationship to the RL.

Importantly, these five Ethyl Acetate results are not counted twice because they are already included among the MDL–RL estimated detections. Each affected analytical result is assigned one final independent qualifier based on the cumulative weight of evidence.

5.14.5 Propylene Qualification

Propylene exhibited recurring low LCS recovery:

- **62.4%** in BG60574; and
- **60.6%** in BG60588,

compared with the laboratory acceptance criterion of **70–130%**.

Propylene was also affected by CCV performance observations. The combination of low LCS recovery and calibration performance indicates potential low analytical bias and reduced sensitivity.

For IA-7, IA-8, IA-9, and IA-10, Propylene was reported as non-detect and carries both **TO-CCV** and **TO-LCS-L**. OA-2 contained a detected Propylene concentration of **0.76 µg/m³** with the same laboratory qualifiers.

Table 27. Independent Qualification of Propylene Results

Sample	Laboratory Result	Laboratory Qualifiers	Independent Qualifier	Validator Basis
IA-7	ND	TO-CCV; TO-LCS-L	**UJ**	Non-detect affected by calibration condition and low recovery
IA-8	ND	TO-CCV; TO-LCS-L	**UJ**	Same
IA-9	ND	TO-CCV; TO-LCS-L	**UJ**	Same
IA-10	ND	TO-CCV; TO-LCS-L	**UJ**	Same
OA-2	0.76 µg/m³	TO-CCV; TO-LCS-L	**J**	Detected result affected by calibration uncertainty and low recovery

The four nondetects are therefore considered **estimated nondetects (UJ)**, while the OA-2 detection remains valid but quantitatively estimated (**J**).

5.14.6 Vinyl Acetate Qualification

Vinyl Acetate exhibited low LCS recovery in both analytical batches:

- **57.0%** in BG60574; and
- **47.0%** in BG60588.

Both values were below the laboratory lower acceptance criterion of **70%**.

Vinyl Acetate was reported as **ND in all five primary environmental samples**, each carrying the laboratory **TO-LCS-L** condition.

Table 28. Independent Qualification of Vinyl Acetate Results

Sample	Laboratory Result	Laboratory Qualifier	Independent Qualifier	Validator Basis
IA-7	ND	TO-LCS-L	**UJ**	Low recovery reduces confidence in nondetect sensitivity
IA-8	ND	TO-LCS-L	**UJ**	Same
IA-9	ND	TO-LCS-L	**UJ**	Same
IA-10	ND	TO-LCS-L	**UJ**	Same
OA-2	ND	TO-LCS-L	**UJ**	Same

The recurring low recovery indicates reduced analytical sensitivity for Vinyl Acetate. Accordingly, all five nondetects are retained but classified as **estimated nondetects (UJ)**.

5.14.7 1,2-Dichlorotetrafluoroethane

A compound-specific high-bias CCV observation was identified for **1,2-Dichlorotetrafluoroethane**. Because the applicable environmental results were non-detects and the calibration condition was in the **high-bias direction**, the QC observation does not indicate reduced sensitivity or a false-negative concern. Accordingly:

Evaluation Item	Decision
Environmental Status	Non-detect
CCV Bias Direction	High
Reduced-Sensitivity Concern	No
Independent Qualifier	**None**

No independent qualification is warranted for the applicable 1,2-Dichlorotetrafluoroethane nondetects.

5.14.8 p- & m-Xylenes / TO-MPX

p- & m-Xylenes were detected in all five primary environmental samples and reported with laboratory qualifier **TO-MPX**. The reported concentrations were:

Sample	p- & m-Xylenes (µg/m³)	Laboratory Qualifier	Independent Qualifier
IA-7	4.6	TO-MPX	None
IA-8	4.9	TO-MPX	None
IA-9	31	TO-MPX	None
IA-10	71	TO-MPX	None
OA-2	1.4	TO-MPX	None

TO-MPX represents the laboratory reporting convention for combined p- and m-Xylene isomers rather than failed analytical QC. Therefore, the designation does **not independently warrant J, UJ, or R qualification**.

5.14.9 IA-9 Acetone Reanalysis

The IA-9 reanalysis, laboratory ID **26G0459-03RE1**, reported Acetone at:

- Result: **120 µg/m³**
- MDL: **2.2 µg/m³**
- RL: **21 µg/m³**
- Analytical date: **13 July 2026**

The reanalysis was supported by its corresponding analytical sequence and QC records. No applicable Acetone-specific QC condition was identified that warrants an additional independent qualifier. Based on the QA/QC documentation reviewed, no J, UJ, or R qualifier is required for the reanalysis result.

Table 29. IA-9 Acetone Reanalysis Qualification

Result	MDL	RL	Relevant QC Finding	Independent Qualifier
120 µg/m³	2.2	21	No applicable Acetone QC exception identified	**None**

The reported reanalysis result is therefore accepted without additional independent qualification.

5.14.10 Rejected Data Review

No QA/QC condition identified during the independent validation supports rejection of any environmental analytical result.

Table 30. Rejected Data Assessment

Evaluation	Finding
Holding-time failure requiring rejection	None identified
Instrument tune failure requiring rejection	None identified
Internal Standard failure requiring rejection	None identified
Method Blank contamination requiring rejection	None identified
Calibration failure rendering dataset unusable	None identified
LCS failure requiring wholesale rejection	None identified
Sample identification / traceability failure	None identified
Results assigned R	**0**

Accordingly, **no R-qualified results are identified**.

5.14.11 Final Independent Qualification Summary

Table 31. Independent Data Qualification Summary

Qualification Basis	Affected Results	Independent Action
Detection between MDL and RL	**23 reported detections**	**J**
Ethyl Acetate – TO-CCV	Five primary samples	**J**; do not double-count where already among MDL–RL estimated detections
Propylene – TO-CCV + TO-LCS-L	IA-7, IA-8, IA-9, IA-10 nondetects	**UJ**
Propylene – TO-CCV + TO-LCS-L	OA-2 detection	**J**
Vinyl Acetate – TO-LCS-L	Five primary sample nondetects	**UJ**
1,2-Dichlorotetrafluoroethane high-bias CCV	Applicable nondetects	No independent qualification
p- & m-Xylenes – TO-MPX	All five primary samples	No additional independent qualification
IA-9 Acetone RE1	120 µg/m³	No additional independent qualification
Rejected results	None	No **R** qualifiers

The key point is that **qualification counts must be based on unique analytical results, not on the number of separate reasons supporting qualification**. A result affected by more than one estimation condition remains one J-qualified or UJ-qualified analytical result.

5.14.12 Independent Validator Assessment

The independent qualification review demonstrates that the principal analytical limitations in SDG 26G0459 are **result-specific rather than dataset-wide**. The primary qualification categories are:

1. positive detections reported between the MDL and RL;
2. calibration-related estimation affecting Ethyl Acetate;
3. combined CCV and low-LCS-recovery conditions affecting Propylene; and
4. recurring low LCS recovery affecting Vinyl Acetate nondetects.

These conditions reduce quantitative confidence in selected results but do not invalidate compound identification or indicate failure of the analytical package as a whole. No additional independent qualifier is assigned solely because of TO-MPX. No additional qualification is warranted for the IA-9 Acetone reanalysis. No analytical result meets the criteria for rejection.

5.14.13 Conclusion

Following integration of the laboratory analytical results with the complete QA/QC review, selected analytical results require **J or UJ qualification**.

Positive detections reported between the MDL and RL are considered valid but estimated and receive **J** qualification. Ethyl Acetate detections are also supported for J qualification by their applicable calibration condition but are **not double-counted** where they are already included among the MDL–RL estimated results.

Four Propylene nondetects are qualified **UJ**, while the OA-2 Propylene detection is qualified **J**. All five Vinyl Acetate nondetects are qualified **UJ** because of recurring low LCS recovery.

No independent qualification is warranted solely on the basis of TO-MPX, the applicable high-bias 1,2-Dichlorotetrafluoroethane CCV observation, or the IA-9 Acetone reanalysis.

No analytical results are assigned R. The qualification pattern is therefore limited, traceable, and analytically specific and does not indicate failure of the analytical dataset as a whole. **Supporting documentation: Validation Worksheets – Forms XIII and XIV.**

6. Conclusions

The Analytical Services Package (ASP) prepared by ALS Environmental – Queens for Hydro Tech Environmental under Sample Delivery Group (SDG) 26G0459 was independently reviewed to evaluate the completeness, analytical quality, and technical usability of the reported volatile organic compound (VOC) data. The review included assessment of laboratory administrative documentation, sample traceability, analytical methods, instrument performance, calibration, quality assurance and quality control (QA/QC) documentation, analytical sequences, laboratory quality control samples, and reported environmental analytical results.

The independent validation confirmed that the Analytical Services Package was administratively complete and contained sufficient documentation to support a comprehensive technical review. Sample identification and chain-of-custody documentation maintained complete traceability throughout the analytical process, and all environmental samples were analyzed within the applicable laboratory holding-time requirements.

Instrument performance, initial calibration, analytical sequence integrity, internal standard performance, and laboratory blank evaluations demonstrated acceptable analytical performance. No evidence of laboratory contamination, analytical sequence deficiencies, or instrument performance issues was identified that would adversely affect the technical usability of the analytical dataset.

Compound-specific quality control observations were identified during evaluation of the Initial Calibration Verification (ICV), Continuing Calibration Verification (CCV), and Laboratory Control Sample (Blank Spike) recoveries. These observations principally affected Ethyl Acetate, Propylene, and Vinyl Acetate. In addition, environmental result validation identified 23 detected concentrations between the applicable MDLs and RLs, requiring estimation of the reported quantitative values. All qualification decisions were evaluated using an integrated weight-of-evidence approach and applied at the individual-result level. The resulting qualifications do not indicate a systematic deficiency in the analytical process.

No analytical results required rejection, and no evidence was identified indicating widespread analytical bias or deficiencies that would compromise the overall integrity of the analytical dataset.

6.1 Summary of Independent Data Qualification

Independent validation resulted in result-specific qualifications based on the combined evaluation of laboratory QA/QC performance and the relationship between reported analytical concentrations, Method Detection Limits (MDLs), and Reporting Limits (RLs).

Table 32. Summary of Independent Data Qualification

Qualification Basis	Affected Results	Validator Qualifier	Basis for Qualification
Detections between MDL and RL	23 detected results	**J**	Valid analytical detections reported below the RL; quantitative concentrations considered estimated
Ethyl Acetate	Five primary detections	**J**	Included within the 23 MDL–RL detections; calibration verification uncertainty provides additional support for estimation
Propylene	IA-7, IA-8, IA-9, IA-10 nondetects	**UJ**	Low LCS recovery and low-bias CCV performance reduce confidence in analytical sensitivity
Propylene	OA-2 detection, 0.76 µg/m³	**J**	Combined low LCS recovery and CCV uncertainty affect quantitative reliability
Vinyl Acetate	Five primary nondetects	**UJ**	Recurring low LCS recovery and calibration variability reduce confidence in nondetect capability
1,2-Dichlorotetrafluoroethane	Applicable nondetects	None	High-bias CCV condition does not indicate false-negative concern
p- & m-Xylenes	Five primary detections	None based on TO-MPX	TO-MPX is a laboratory reporting convention
IA-9 Acetone RE1	120 µg/m³	None	No additional independent qualification warranted

The final independent qualification totals are **24 J-qualified detected results, nine UJ-qualified nondetect results, and zero R-qualified results**. The five Ethyl Acetate detections are already included among the 23 MDL–RL J-qualified results and are therefore not double-counted.

6.2 Overall Data Usability Statement

Based on the independent technical review of the Analytical Services Package, the analytical data contained within Sample Delivery Group (SDG) 26G0459 are classified as "**Usable with Qualification**". The assigned qualifications are limited to discrete analytical results affected by reporting-level uncertainty and/or documented QA/QC observations and do not compromise the overall completeness, integrity, or technical usability of the analytical dataset. No analytical results were rejected, and the validated data are considered suitable for their intended analytical purpose, subject to the independent qualifiers documented in this report.

7. References

The independent validation documented in this Data Usability Summary Report (DUSR) was performed using the laboratory documentation contained within the **Analytical Services Package (ASP)** for Sample Delivery Group (SDG) **26G0459**, the analytical method applied by the laboratory, applicable quality assurance and quality control guidance, and recognized professional data-validation references.

These references establish the technical basis used to evaluate sample traceability, analytical method performance, instrument calibration, quality control performance, laboratory documentation, analytical result reporting, independent qualification, and overall data usability.

The references listed below were used solely to support evaluation of the **technical quality, reliability, and defensibility of the laboratory-generated analytical data**. They do not constitute environmental interpretation, regulatory compliance determination, exposure assessment, human-health or ecological risk assessment, remedial evaluation, or site-characterization guidance.

Table 33. Technical References Used During Independent Validation

Ref. No.	Reference	Application within this DUSR
1	**New York State Department of Environmental Conservation (NYSDEC). Analytical Services Protocol (ASP), applicable version.**	Primary protocol framework used for independent analytical data validation, QA/QC evaluation, laboratory documentation review, analytical qualification, and data-usability assessment.
2	**U.S. Environmental Protection Agency (USEPA). Compendium Method TO-15: Determination of Volatile Organic Compounds (VOCs) in Air Collected in Specially Prepared Canisters and Analyzed by Gas Chromatography/Mass Spectrometry (GC/MS).**	Primary analytical method applicable to the VOC analyses reviewed, including canister-based air analysis, GC/MS procedures, calibration, quality control, and analytical reporting.
3	**ALS Environmental. Analytical Services Package (ASP), Sample Delivery Group (SDG) 26G0459, Queens, New York, 2026.**	Primary laboratory documentation independently reviewed, including environmental analytical results, QA/QC documentation, calibration records, analytical sequences, and supporting laboratory records.
4	**ALS Environmental. Laboratory Case Narrative, SDG 26G0459, 2026.**	Laboratory documentation describing analytical batches, laboratory observations, reanalysis activities, reported deviations, and quality control conditions relevant to the validation.
5	**ALS Environmental. Analytical Reports, Positive Hit Reports, Calibration Records, Instrument Performance Records, Internal Standard Reports, Method Blank Results, Laboratory Control Sample Reports, Analytical Sequence Records, Batch Summaries, Chain-of-Custody Records, and Supporting Raw Data contained within SDG 26G0459.**	Supporting laboratory records reviewed to verify sample traceability, analytical performance, calibration status, quality control performance, reported concentrations, laboratory qualifiers, and analytical completeness.

6	**U.S. Environmental Protection Agency (USEPA). National Functional Guidelines for Organic Data Review. EPA-540-R-17-001, 2017.**	Technical guidance supporting independent review of organic analytical data, QA/QC assessment, analytical result qualification, and data-usability evaluation.
7	**U.S. Environmental Protection Agency (USEPA). Guidance on Environmental Data Verification and Data Validation (EPA QA/G-8).**	Guidance supporting data verification, validation methodology, documentation review, analytical-quality assessment, and technical defensibility.
8	**U.S. Environmental Protection Agency (USEPA). Guidance for Quality Assurance Project Plans (EPA QA/G-5).**	Supporting reference for evaluation of QA/QC documentation, quality assurance planning, and analytical-data quality requirements.
9	**U.S. Environmental Protection Agency (USEPA). Guidance on Systematic Planning Using the Data Quality Objectives Process (EPA QA/G-4).**	Supporting guidance for systematic planning, data-quality objectives, and assessment of whether analytical information is suitable for its intended technical purpose.
10	**U.S. Environmental Protection Agency (USEPA). Test Methods for Evaluating Solid Waste, Physical/Chemical Methods (SW-846), where applicable.**	Supplemental reference for general laboratory QA/QC concepts, calibration practices, analytical data review, and quality-control terminology where relevant to the validation framework.
11	**U.S. Environmental Protection Agency (USEPA). Regional laboratory data-validation guidance, where applicable.**	Supplemental guidance supporting professional laboratory data-review and qualification practices where relevant to the analytical review.
12	**ASTM International. ASTM D4840-99(2018), Standard Guide for Sample Chain-of-Custody Procedures.**	Supporting reference for evaluation of sample custody, documentation, traceability, and integrity of sample-transfer records.
13	**ASTM International. ASTM D5283-20, Standard Practice for Generation of Environmental Data Related to Waste Management Activities: Quality Assurance and Quality Control Planning and Implementation.**	Supporting reference for environmental analytical QA/QC planning, implementation, documentation, and data-quality practices.
14	**Applicable ALS Environmental Standard Operating Procedures (SOPs) referenced within the Analytical Services Package.**	Laboratory-specific procedures supporting analytical operations, calibration, quality control, instrumentation, and reporting, where referenced in the ASP.

APPENDIX A: Analytical Methods Summary

This appendix provides a concise summary of the analytical methods, instrumentation, laboratory quality control requirements, and principal analytical criteria applicable to the laboratory analyses performed for SDG 26G0459. It serves as a technical reference for the validation worksheets and allows the reader to understand the analytical framework without repeatedly consulting the Analytical Services Package (ASP).

Table A-1. Analytical Method Summary

Parameter	Description
Analytical Method	EPA Compendium Method TO-15
Target Analytes	Volatile Organic Compounds (VOCs)
Matrix	Ambient Air
Sampling Device	Passivated Summa Canister
Analytical Technique	Gas Chromatography / Mass Spectrometry (GC/MS)
Laboratory	ALS Environmental – Queens
Sample Delivery Group	SDG 26G0459

Table A-2. Instrumentation Summary

Item	Description
Instrument	Gas Chromatograph / Mass Spectrometer
Detector	Mass Spectrometer
Calibration	Multi-point Initial Calibration
Calibration Verification	Initial Calibration Verification (Second Source) and Continuing Calibration Verification
Internal Standard	Required
Method Blank	Required
Laboratory Control Sample	Required

Table A-3. Primary Laboratory Quality Control Elements

QA/QC Element	Purpose
Chain-of-Custody	Verify sample traceability
Sample Receipt	Verify sample condition upon receipt
Holding Time	Verify analytical holding time compliance
Instrument Tune	Verify acceptable instrument performance
Initial Calibration	Establish quantitative calibration
Second-Source Verification	Confirm calibration accuracy
Continuing Calibration	Verify calibration stability
Internal Standards	Monitor instrument performance
Method Blank	Evaluate laboratory contamination
Laboratory Control Sample	Evaluate analytical accuracy
Analytical Sequence	Verify sequence integrity

Table A-4. Validation Criteria Summary

QA/QC Element	Independent Validation Objective
Sample Receipt	Verify completeness and traceability
Holding Time	Confirm analytical compliance
Instrument Performance	Confirm acceptable GC/MS performance
Calibration	Confirm quantitative reliability
Method Blank	Evaluate contamination
Laboratory Control Sample	Evaluate recovery accuracy
Environmental Results	Assess technical usability

Appendix A Conclusion

The analytical methods, instrumentation, and quality control elements summarized in this appendix provide the technical basis for the independent validation performed in this report. The validation worksheets presented in Appendix C evaluate each quality control element in detail and determine its influence on the technical usability of the reported analytical data.

APPENDIX B: Sample Inventory

This appendix summarizes the environmental samples, laboratory identifiers, analytical batches, and sample chronology reviewed during the independent validation. It provides a complete inventory of the analytical data included in Sample Delivery Group (SDG) 26G0459 and establishes the relationship between field sample identifiers, laboratory sample numbers, and analytical sequences.

Table B-1. Environmental Sample Inventory

Laboratory Sample ID	Field Sample ID	Matrix	Sample Type	Validation Status
26G0459-01	IA-7	Ambient Air	Indoor Air	Reviewed
26G0459-02	IA-8	Ambient Air	Indoor Air	Reviewed
26G0459-03	IA-9	Ambient Air	Indoor Air	Reviewed
26G0459-03RE1	IA-9 (Reanalysis)	Ambient Air	Laboratory Reanalysis	Reviewed
26G0459-04	IA-10	Ambient Air	Indoor Air	Reviewed
26G0459-05	OA-2	Ambient Air	Outdoor Air	Reviewed

Table B-2. Sample Type Summary

Sample Category	Number of Samples
Indoor Air Samples	4
Outdoor Air Samples	1
Laboratory Reanalysis	1
Total Laboratory Analyses	6

Table B-3. Analytical Batch Summary

Analytical Batch	Samples Included	Major QA/QC Elements Reviewed
BG60574	26G0459-01, 26G0459-02, 26G0459-03, 26G0459-04, 26G0459-05	Method Blank, LCS, CCV, Internal Standards
BG60588	26G0459-03RE1	Method Blank, LCS, CCV, Internal Standards

Table B-4. Sample Traceability Summary

Validation Element	Status
Sample Identification	Verified
Laboratory Login	Verified
Chain-of-Custody	Verified
Analytical Batch Assignment	Verified
QA/QC Association	Verified
Traceability	Complete

Appendix B Conclusion

The sample inventory confirms that all environmental samples, associated laboratory reanalysis, and analytical batches included within SDG 26G0459 were identified, tracked, and incorporated into the independent validation. Complete traceability was maintained between field sample identifiers, laboratory sample numbers, analytical batches, and supporting quality control records.

APPENDIX C: Validation Worksheets

C.1 Purpose

The Validation Worksheets presented in this appendix document the independent technical review performed during the preparation of this Data Usability Summary Report (DUSR). Each worksheet provides a detailed evaluation of a specific quality assurance and quality control (QA/QC) element supporting the analytical data contained within the Analytical Services Package (ASP) for **Sample Delivery Group (SDG) 26G0459**.

The worksheets establish the technical basis for the observations, validation decisions, data qualifications, and conclusions presented in the main body of this report. Together, they provide a complete audit trail demonstrating that all principal administrative, analytical, and quality control elements were independently evaluated before determining the overall usability of the analytical data.

Each worksheet has been prepared using a standardized format to ensure consistency throughout the validation process and to facilitate independent technical review. The worksheets document the laboratory records reviewed, validation criteria applied, technical findings, deficiencies or exceptions identified, and the final independent validation decision.

C.2 Validation Worksheet Structure

To maintain consistency and transparency, each validation worksheet follows the same general format.

Table C-1. Standard Validation Worksheet Structure

Section	Description
Purpose	Defines the objective of the validation worksheet.
Validation Criteria	Identifies the technical requirements and acceptance criteria used during the review.
Laboratory Documentation Reviewed	Lists the ASP records evaluated during the validation.
Independent Review	Presents the technical assessment of the laboratory documentation.
Validation Findings	Summarizes the principal observations identified during the review.
Deficiencies / Exceptions	Identifies any deficiencies or exceptions requiring consideration during validation.
Independent Validator Assessment	Documents the professional interpretation of the findings and their significance to analytical data quality.
Validation Decision	Provides the final determination regarding the acceptability of the QA/QC element and whether independent qualification is required.

C.3 Validation Worksheet Index

Table C-2. Validation Worksheet Index

Form	Validation Worksheet	Related Report Section
Form I	Sample Receipt, Preservation, and Chain-of-Custody Review	5.3
Form II	Holding Time Review	5.4
Form III	Laboratory Case Narrative Review	5.5
Form IV	Instrument Performance Review (Mass Spectrometer Tune)	5.6
Form V	Initial Calibration Review	5.7
Form VI	Initial Calibration Verification / Second-Source Verification	5.8
Form VII	Continuing Calibration Verification Review	5.9
Form VIII	Internal Standard Performance Review	5.10
Form IX	Method Blank Review	5.11
Form X	Laboratory Control Sample (LCS / Blank Spike) Review	5.12
Form XI	Analytical Sequence Review	5.13
Form XII	Environmental Sample Result Validation	5.13
Form XIII	Independent Data Qualification Summary	5.14
Form XIV	Final Data Validation Summary	5.14 / Overall usability
Form XV	Final Data Validation Certification	Certification
Form XVI	Independent Validation Checklist and Report Completion Record	Final QA/QC completion

C.4 Validation Workflow

The independent validation followed a structured and sequential evaluation of the Analytical Services Package. Each QA/QC element was reviewed individually before integrating the findings into the overall data usability assessment.

C.5 Validation Worksheet Summary

Table C-3. Summary of Validation Worksheet Outcomes

Validation Worksheet	Review Outcome	Independent Qualification Required
Form I	Acceptable	No
Form II	Acceptable	No
Form III	Acceptable	No
Form IV	Acceptable	No
Form V	Acceptable	No
Form VI	Acceptable with observations	No
Form VII	Acceptable with compound-specific observations	Yes
Form VIII	Acceptable	No
Form IX	Acceptable	No
Form X	Acceptable with compound-specific observations	Yes
Form XI	Acceptable	No
Form XII	Acceptable with qualification	Yes
Form XIII	Qualification completed	—
Form XIV	Final Data Validation Summary completed	—
Form XV	Data classified as Usable with Qualification	—
Form XVI	Validation completed	—

C.6 Validation Worksheets

The following Validation Worksheets present the detailed technical review of each quality assurance and quality control element evaluated during the independent validation of **Sample Delivery Group (SDG) 26G0459**. The worksheets constitute the primary technical record supporting the observations, conclusions, and independent data qualification decisions documented in this Data Usability Summary Report.

Each validation worksheet begins on a separate page to facilitate review and maintain a clear distinction between individual QA/QC evaluations.

FORM I: Sample Receipt, Preservation, and Chain-of-Custody Review

1. Purpose

The purpose of this Independent Validation Worksheet is to evaluate the administrative integrity of the Analytical Services Package (ASP) by reviewing sample receipt documentation, sample preservation (where applicable), and Chain-of-Custody (COC) records associated with **Sample Delivery Group (SDG) 26G0459**. The review verifies that all environmental samples were properly received, uniquely identified, continuously tracked, and documented throughout the analytical process. It also confirms that no administrative deficiencies exist that could compromise sample identity, analytical traceability, or the technical usability of the reported analytical data.

2. Validation Criteria

The following administrative and sample management elements were independently evaluated:

- Completeness of laboratory sample receipt documentation.
- Consistency of field and laboratory sample identifiers.
- Integrity of Chain-of-Custody documentation.
- Sample receipt dates and times.
- Sample condition upon laboratory receipt.
- Sample container integrity.
- Custody seal condition (where applicable).
- Sample preservation requirements.
- Sample traceability throughout the Analytical Services Package.
- Consistency between laboratory login records, analytical reports, and QA/QC documentation.

The review was performed using the Analytical Services Package, EPA Compendium Method TO-15 requirements, applicable laboratory Standard Operating Procedures (SOPs), and accepted environmental data validation practices.

3. Laboratory Documentation Reviewed

The following ASP documentation was reviewed during this validation:

Table I-1. Laboratory Documentation Reviewed

Document Reviewed	Purpose of Review	Review Status
Laboratory Sample Receipt Log	Verify laboratory receipt of submitted samples	Reviewed
Chain-of-Custody Forms	Verify continuous custody and sample traceability	Reviewed
Laboratory Login Records	Verify sample identification and accession	Reviewed
Sample Inventory	Confirm consistency of laboratory sample identifiers	Reviewed
Laboratory Case Narrative	Review comments related to sample receipt or condition	Reviewed
Analytical Reports	Verify consistency of sample identifiers	Reviewed
QA/QC Reports	Confirm traceability between environmental and QC samples	Reviewed

4. Sample Receipt Evaluation

Sample receipt documentation was reviewed to determine whether the laboratory received the environmental samples in acceptable condition and whether the documentation was complete.

Table I-2. Sample Receipt Evaluation

Evaluation Item	Laboratory Observation	Independent Assessment
Sample receipt documentation	Complete	Acceptable
Sample receipt date and time	Recorded	Verified
Laboratory sample login	Complete	Verified
Sample identification	Complete	Verified
Sample matrix	Ambient Air	Verified
Sample containers	Summa canisters	Acceptable
Sample condition	No damage reported	Acceptable
Custody seals	Intact (where applicable)	Verified
Preservation requirements	Applicable requirements satisfied	Acceptable
Administrative documentation	Complete	Acceptable

5. Chain-of-Custody Evaluation

The Chain-of-Custody documentation was independently reviewed to verify complete sample traceability from field collection through laboratory receipt and analysis.

Table I-3. Chain-of-Custody Review

Chain-of-Custody Element	Assessment	Validator Comments
COC form included	Yes	Complete
Field sample identifiers	Consistent	Verified
Laboratory sample identifiers	Consistent	Verified
Collection dates documented	Yes	Verified
Collection times documented	Yes	Verified
Requested analytical method	EPA TO-15	Verified
Custody transfers documented	Yes	Continuous
Laboratory receipt documented	Yes	Verified
Missing signatures	None	Acceptable
Missing documentation	None	Acceptable

6. Sample Inventory Verification

The environmental sample inventory was compared with the laboratory login records, analytical reports, and QA/QC documentation to verify sample traceability.

Table I-4. Environmental Sample Inventory Verification

Laboratory Sample ID	Field Sample ID	Matrix	Sample Type	Collection Date	Laboratory Receipt Date	Validation Status
26G0459-01	IA-7	Ambient Air	Indoor Air	08-Jul-2026	08-Jul-2026	Verified
26G0459-02	IA-8	Ambient Air	Indoor Air	08-Jul-2026	08-Jul-2026	Verified
26G0459-03	IA-9	Ambient Air	Indoor Air	08-Jul-2026	08-Jul-2026	Verified
26G0459-03RE1	IA-9 (Laboratory Reanalysis)	Ambient Air	Reanalysis	08-Jul-2026	08-Jul-2026	Verified
26G0459-04	IA-10	Ambient Air	Indoor Air	08-Jul-2026	08-Jul-2026	Verified
26G0459-05	OA-2	Ambient Air	Outdoor Air			Verified

7. Administrative Traceability Assessment

Table I-5. Administrative Traceability Assessment

Validation Component	Independent Assessment
Sample Receipt	Acceptable
Laboratory Login	Acceptable
Chain-of-Custody	Acceptable
Sample Identification	Acceptable
Sample Inventory	Acceptable
Analytical Reports	Acceptable
QA/QC Association	Acceptable
Overall Administrative Traceability	Complete

8. Independent Review

The laboratory administrative records were reviewed to evaluate sample receipt, custody, and traceability throughout the Analytical Services Package. The review confirmed that all environmental samples were properly received, logged into the laboratory information management system, and consistently identified throughout the analytical documentation.

The Chain-of-Custody documentation established uninterrupted sample traceability from field collection through laboratory receipt and final reporting. Sample identifiers were consistent across the Chain-of-Custody forms, laboratory login records, analytical reports, QA/QC documentation, and laboratory case narrative.

Because the samples consisted of ambient air collected in Summa canisters for analysis by EPA Compendium Method TO-15, conventional aqueous preservation requirements were not applicable. The laboratory reported no damaged containers, compromised samples, or administrative discrepancies that would affect analytical validity.

9. Validation Findings

- Laboratory sample receipt documentation was complete.
- Chain-of-Custody records were complete and internally consistent.
- Sample identifiers remained consistent throughout the Analytical Services Package.
- Environmental samples were correctly associated with the reported analytical results.
- No discrepancies were identified between laboratory administrative records and analytical documentation.
- Administrative traceability was maintained for all environmental samples and associated laboratory reanalysis.

10. Deficiencies / Exceptions

No administrative deficiencies, documentation inconsistencies, or Chain-of-Custody exceptions were identified during the independent review.

11. Independent Validator Assessment

The administrative documentation supporting SDG 26G0459 demonstrates complete sample accountability and traceability throughout the analytical process. The Chain-of-Custody records, laboratory sample receipt documentation, and analytical reports collectively establish that the identity and integrity of the environmental samples were maintained from receipt through final reporting. No administrative observations were identified that would adversely affect the technical quality, validity, or usability of the laboratory-generated analytical data.

12. Validation Decision

Table I-6. Validation Decision Summary

Validation Element	**Decision**
Sample Receipt	Acceptable
Chain-of-Custody	Acceptable
Sample Identification	Acceptable
Administrative Traceability	Acceptable
Documentation Completeness	Acceptable
Independent Data Qualification Required	**No**

13. Form I Conclusion

The independent review confirms that the sample receipt documentation, Chain-of-Custody records, and administrative documentation supporting **SDG 26G0459** are complete, internally consistent, and technically adequate. Sample identity and traceability were maintained throughout the analytical process, and no administrative deficiencies were identified that would require qualification of the laboratory-generated analytical data.

FORM II: Holding Time Review

1. Purpose

The purpose of this validation worksheet is to independently evaluate compliance with analytical holding time requirements for all environmental samples included in **Sample Delivery Group (SDG) 26G0459**. The review verifies that the elapsed time between sample collection and laboratory analysis complied with the applicable holding time requirements specified for **EPA Compendium Method TO-15** and that no holding-time exceedances occurred that could adversely affect the analytical results.

2. Validation Criteria

Holding time compliance was evaluated using:

- EPA Compendium Method TO-15.
- Laboratory holding time summary.
- Laboratory holding time calculations.
- Sample collection records.
- Laboratory receipt records.
- Sample preparation records.
- Analytical sequence documentation.
- Laboratory analytical reports.

The following validation criteria were applied:

- Sample collection date and time shall be documented.
- Laboratory receipt date shall be documented.
- Analysis date and time shall be documented.
- Holding time calculations shall be supported by laboratory documentation.
- Samples shall be analyzed within the applicable laboratory holding time requirements.

3. Laboratory Documentation Reviewed

Table II-1. Holding Time Documentation Reviewed

Laboratory Record	ASP Reference	Review Status
Hold Time Summary	Pages 19–20	Reviewed
Hold Time Calculations	Pages 19–20	Reviewed
Laboratory Case Narrative	Page 17	Reviewed
Sample Analytical Reports	Sample Result Reports	Reviewed
Sequence Summary	Pages 163–165	Reviewed

4. Sample Holding Time Chronology

Table II-2. Sample Collection, Receipt, and Analysis Summary

Laboratory Sample ID	Field Sample	Collection Date	Laboratory Receipt	Analysis Date	Holding Time Compliance
26G0459-01	IA-7	08 Jul 2026	08 Jul 2026	10 Jul 2026	Compliant
26G0459-02	IA-8	08 Jul 2026	08 Jul 2026	10 Jul 2026	Compliant
26G0459-03	IA-9	08 Jul 2026	08 Jul 2026	10 Jul 2026	Compliant
26G0459-03RE1	IA-9 (Reanalysis)	08 Jul 2026	Existing laboratory sample	13 Jul 2026	Compliant (Laboratory Reanalysis)
26G0459-04	IA-10	08 Jul 2026	08 Jul 2026	10 Jul 2026	Compliant
26G0459-05	OA-2	08 Jul 2026	08 Jul 2026	10 Jul 2026	Compliant

The sample analytical reports confirm the collection dates, receipt dates, and analysis dates for each environmental sample and the laboratory reanalysis.

5. Holding Time Evaluation

Table II-3. Independent Holding Time Assessment

Validation Element	Laboratory Documentation	Independent Assessment
Collection date documented	Yes	Verified
Collection time documented	Yes	Verified
Receipt date documented	Yes	Verified
Analysis date documented	Yes	Verified
Holding time summary provided	Yes	Verified
Holding time calculations provided	Yes	Verified
Holding time exceedance reported	No	Confirmed
Laboratory qualification required	No	Confirmed

6. Independent Review

The laboratory holding time summary, holding time calculation records, analytical reports, and analytical sequence documentation were independently reviewed. All environmental air samples were collected on **8 July 2026**, received by the laboratory on the same date, and analyzed on **10 July 2026**. The IA-9 reanalysis (26G0459-03RE1) was performed on **13 July 2026** as a documented laboratory reanalysis associated with the original sample. The laboratory provided both a Hold Time Summary and Hold Time Calculation report supporting compliance with method requirements.

Review of the laboratory documentation identified **no holding-time exceedances**, and no laboratory qualifications were assigned due to holding time. The timing of sample analysis was consistent with the laboratory records and the analytical sequence.

7. Validation Findings

- Holding time documentation was complete.
- Collection, receipt, and analysis dates were fully documented.
- Laboratory holding time calculations were provided.
- No holding-time exceedances were identified.
- No holding-time qualifications were assigned by the laboratory.

- Independent review confirmed laboratory compliance with holding-time requirements.

8. Deficiencies / Exceptions

No deficiencies or exceptions related to analytical holding times were identified.

9. Data Impact Assessment

Analytical holding times were met for all environmental samples included in SDG 26G0459. Therefore, no adverse effect on analyte stability, analytical reliability, or data usability is anticipated due to sample storage or analytical timing.

10. Validation Decision

Table II-4. Holding Time Validation Decision

Validation Element	**Decision**
Holding Time Documentation	Acceptable
Holding Time Calculations	Acceptable
Holding Time Compliance	Acceptable
Independent Qualification Required	**No**

11. Form II Conclusion

Based on the independent review of the laboratory holding time summary, holding time calculations, analytical reports, and supporting documentation, all environmental samples within **SDG 26G0459** were analyzed within the applicable laboratory holding time requirements. No holding-time exceedances or documentation deficiencies were identified. Accordingly, analytical holding times do not adversely affect the quality, validity, or usability of the laboratory-generated analytical data, and no independent data qualification is warranted.

FORM III: Laboratory Case Narrative Review

1. Purpose

The purpose of this Independent Validation Worksheet is to evaluate the Laboratory Case Narrative associated with Sample Delivery Group (SDG) 26G0459. The Case Narrative was reviewed to identify analytical observations, laboratory qualifications, deviations from established analytical procedures, quality control issues, reanalyses, and any other information that could influence the technical quality or usability of the reported analytical results.

The objective of this review is to determine whether the laboratory narrative accurately describes the analytical work performed and whether any laboratory-reported observations require independent consideration during data validation.

2. Validation Criteria

The Case Narrative was evaluated to verify:

- Completeness of laboratory documentation.
- Identification of analytical problems.
- Documentation of QC failures.
- Documentation of analytical deviations.
- Laboratory corrective actions.
- Sample reanalyses.
- Instrument problems.
- Laboratory-assigned qualifiers.
- Consistency with supporting QA/QC documentation.

The review also verified that all observations documented within the Case Narrative were consistent with the analytical records included elsewhere in the Analytical Services Package.

3. Laboratory Documentation Reviewed

Table III-1. Documentation Reviewed

Laboratory Record	Purpose	Review Status
Laboratory Case Narrative	Review laboratory observations	✓
Sample Analytical Reports	Verify consistency	✓
Method Blank Reports	Verify laboratory comments	✓
Laboratory Control Sample Reports	Verify QC observations	✓
Initial Calibration Verification	Verify narrative comments	✓
Continuing Calibration Verification	Verify narrative comments	✓
Analytical Sequence Summary	Verify analytical chronology	✓

4. Summary of Laboratory Narrative

The laboratory Case Narrative documents the analytical activities performed for SDG 26G0459 and identifies the quality control observations relevant to the reported analytical results.

Table III-2. Laboratory Narrative Summary

Laboratory Observation	Independent Verification	Validation Status
Sample receipt acceptable	Verified	Acceptable
Required QC performed	Verified	Acceptable
Laboratory reanalysis performed (26G0459-03RE1)	Verified	Acceptable
Laboratory qualifiers assigned	Verified	Acceptable
Instrument performance documented	Verified	Acceptable
Calibration documentation complete	Verified	Acceptable
QC observations documented	Verified	Acceptable

5. Independent Review

The laboratory Case Narrative was compared with the analytical reports, quality control documentation, analytical sequence records, calibration reports, and laboratory control sample results.

The review confirmed that the Case Narrative accurately documented the analytical work performed for SDG 26G0459. Laboratory observations describing quality control performance, laboratory qualifiers, and analytical reanalysis were consistent with the supporting laboratory documentation contained within the ASP.

The laboratory reanalysis of sample **26G0459-03RE1** was appropriately documented and was incorporated into the independent validation. No undocumented analytical deviations or inconsistencies were identified.

The Case Narrative also identified compound-specific quality control observations that were subsequently evaluated in greater detail during the review of calibration verification, laboratory control samples, and environmental sample results. These observations were independently assessed before assigning any validator qualifications.

6. Validation Findings

Table III-3. Independent Validation Findings

Validation Element	Assessment
Narrative completeness	Acceptable
Analytical activities documented	Acceptable
Laboratory observations supported	Acceptable
QC observations traceable	Acceptable
Laboratory qualifiers documented	Acceptable
Reanalysis documentation	Acceptable
Administrative consistency	Acceptable

7. Data Impact Assessment

The Laboratory Case Narrative accurately documents the analytical activities performed during the analysis of SDG 26G0459. The observations reported by the laboratory are supported by the accompanying QA/QC documentation and do not independently indicate deficiencies affecting the overall usability of the analytical data.

Compound-specific observations described in the narrative were appropriately carried forward for detailed evaluation during subsequent validation worksheets addressing calibration verification, laboratory control samples, and environmental sample results.

8. Deficiencies / Exceptions

No deficiencies or inconsistencies were identified between the Laboratory Case Narrative and the supporting analytical documentation.

9. Validation Decision

Table III-4. Validation Decision

Validation Element	**Decision**
Laboratory Narrative	Acceptable
Documentation Consistency	Acceptable
QC Documentation	Acceptable
Independent Qualification Required	**No**

10. Form III Conclusion

The Laboratory Case Narrative provides a complete and accurate description of the analytical activities performed for SDG 26G0459. The narrative is internally consistent with the analytical reports and quality control documentation contained within the Analytical Services Package. No discrepancies or undocumented analytical issues were identified that would independently affect data usability or require the assignment of additional validator qualifications.

FORM IV: Instrument Performance Review (Mass Spectrometer Tune)

1. Purpose

The purpose of this Independent Validation Worksheet is to evaluate the performance of the Gas Chromatography/Mass Spectrometry (GC/MS) system through review of the Bromofluorobenzene (BFB) Mass Spectrometer Tune documentation associated with Sample Delivery Group (SDG) 26G0459.

The review verifies that the mass spectrometer satisfied the applicable ion-abundance criteria prior to analytical use and that instrument performance was adequate to support the subsequent calibration, quality control, and environmental sample analyses.

The ASP documents BFB tune records for the analytical sequences associated with SDG 26G0459, including supporting raw data and sequence summaries.

2. Validation Criteria

Instrument performance was evaluated by confirming that:

- the BFB tune was performed before the applicable analytical sequence;
- the instrument and sequence identification were consistent with the ASP;
- the required BFB ion-abundance criteria were evaluated;
- each monitored ion met the laboratory acceptance criterion; and
- no tune-related deficiency was identified that would compromise subsequent analytical results.

The laboratory BFB performance check for Instrument AIR 4 documents the specific ion-abundance limits and measured relative abundances used for acceptance.

3. Laboratory Documentation Reviewed

Table IV-1. Instrument Performance Documentation Reviewed

ASP Component	ASP Page(s)	Purpose of Review
Mass Spectrometer Tune Summary	157–159	Evaluation of BFB tune acceptance
Mass Spectrometer Tune Raw Data	160–162	Verification of supporting instrument records
Sequence Summaries	163–165	Confirmation of tune association with analytical sequences
Case Narrative	17	Review of laboratory comments regarding instrument performance

These records are identified in the ASP document inventory and were part of the independent review.

4. BFB Mass Spectrometer Tune Results

The previous generic “Pass/Acceptable” table should be replaced with the actual laboratory values.

Table IV-2. BFB Mass Spectrometer Instrument Performance Check

m/z	Ion-Abundance Criterion	Measured Relative Abundance (%)	Result
50	8–40% of m/z 95	18.5	Pass
75	30–66% of m/z 95	49.0	Pass
95	Base peak, 100% relative abundance	100.0	Pass
96	5–9% of m/z 95	6.46	Pass
173	Less than 2% of m/z 174	0.195	Pass
174	50–120% of m/z 95	73.5	Pass
175	4–9% of m/z 174	7.42	Pass
176	93–101% of m/z 174	98.1	Pass
177	5–9% of m/z 176	6.48	Pass

The ASP identifies this tune as Laboratory File **TQQ002410.D**, Instrument **AIR 4**, Sequence **S6F0126**, performed on **29 May 2026 at 22:00**. All reported ion-abundance criteria passed.

5. Independent Validator Assessment

The BFB tune results demonstrate acceptable mass spectrometer performance. Each monitored ion satisfied the laboratory-established acceptance criterion, and no tune-related failure was reported.

The instrument performance documentation was complete and traceable to the analytical sequence. No evidence was identified of inadequate mass spectral tuning, instability, or instrument-response problems attributable to the BFB performance check.

6. Data Impact Assessment

Because all required BFB ion-abundance criteria were satisfied, instrument tuning does not introduce a limitation on the usability of the analytical data.

No result-specific or dataset-wide qualification is warranted based on mass spectrometer tune performance.

7. Validation Decision

Table IV-3. Instrument Performance Validation Decision

Evaluation Item	Decision
BFB Tune Documentation	Complete
Ion-Abundance Criteria	Passed
Instrument Performance	Acceptable
Independent Qualification Required	No
Rejection Required	No

8. Form IV Conclusion

The independent review confirms that the mass spectrometer tune supporting SDG 26G0459 met the applicable BFB ion-abundance criteria and demonstrated acceptable GC/MS instrument performance. No tune-related deficiency was identified that would adversely affect the quality or usability of the reported analytical results.

FORM V: Initial Calibration (ICAL) Validation

1. Purpose

The purpose of this Independent Validation Worksheet is to evaluate the Initial Calibration (ICAL) used for EPA Method TO-15 and determine whether the GC/MS analytical system established an acceptable quantitative response before analysis of the environmental samples associated with SDG 26G0459.

The review evaluates the calibration design, response factors, response-factor variability, calibration range, laboratory acceptance criteria, and compound-specific calibration performance. The ASP identifies Calibration **SF60002**, Instrument **AIR 4**, with calibration performed on **29 May 2026 at 16:00**.

2. Validation Criteria

The Initial Calibration was evaluated using the following criteria:

- EPA Method TO-15 calibration requirements.
- Multi-level calibration established before environmental sample analysis.
- Response factors reported for applicable target analytes.
- RF relative standard deviation (%RSD) evaluated against the laboratory criterion.
- Calibration traceable to the subsequent ICV/SCV and CCV analyses.
- No compound-specific calibration deficiency significant enough to invalidate quantitation.

Table V-1. Initial Calibration Acceptance Criteria

Evaluation Parameter	Laboratory / Validation Criterion	Validator Evaluation
Analytical Method	EPA TO-15	Verified
Instrument	AIR 4	Verified
Calibration ID	SF60002	Verified
Calibration Type	Multi-level initial calibration	Verified
Response Factors	Reported for applicable target analytes	Verified
RF %RSD	≤30%	Evaluated
Calibration Acceptance	Required before sample analysis	Verified

The reported Initial Calibration statistics use an RF RSD limit of **30%**.

3. Laboratory Documentation Reviewed

Table V-2. Initial Calibration Documentation Reviewed

ASP Documentation	ASP Page(s)	Review Status
Initial Calibration Data – SF60002	170–178	Reviewed
Initial Calibration Raw Data	179–206	Reviewed
Initial Calibration Sequence	163	Reviewed
Second-Source Verification	207–212	Reviewed
Continuing Calibration Verification	213–224	Reviewed

The ASP Table of Contents confirms this calibration documentation sequence.

4. Calibration Identification and Design

Table V-3. Initial Calibration Information

Parameter	**Laboratory Documentation**
Laboratory	ALS Environmental – Queens / Queens, New York
Client	Hydro Tech Environmental
Project	152 Graham Avenue, Brooklyn, NY 240052
SDG	26G0459
Analytical Method	EPA TO-15
Instrument	AIR 4
Calibration ID	SF60002
Calibration Date / Time	29 May 2026, 16:00
Calibration Model	Multi-level response-factor calibration

A correction is necessary here relative to the earlier draft. The calibration should **not** be described as only a six-point calibration. The ASP documents calibration levels continuing beyond 5 ppbv to nominal concentrations of **10, 15, 20, and 30 ppbv** for most analytes.

5. Initial Calibration Concentration Levels

Table V-4. Initial Calibration Concentration Levels

Calibration Level	**Nominal Concentration for Most Analytes (ppbv)**
1	0.025
2	0.050
3	0.101
4	0.505
5	2.52
6	5.0
7	10
8	15
9	20
10	30

Compound-specific concentration ranges were used where documented by the laboratory. For example, combined **p- & m-Xylenes** were calibrated using corresponding combined-isomer concentrations.

6. Compound-Specific Initial Calibration Performance

This is the table that should remain in the form because it provides the actual quantitative evidence behind the ICAL conclusion.

Table V-5. Initial Calibration Response-Factor Statistics

Compound	Mean RF	RF RSD (%)	Limit (%)	Validator Assessment
1,1,1,2-Tetrachloroethane	0.6244	6.20	30	Acceptable
1,1,1-Trichloroethane	2.9710	27.11	30	Acceptable
1,1,2,2-Tetrachloroethane	1.1127	10.07	30	Acceptable
Freon 113	2.4293	26.79	30	Acceptable
1,1,2-Trichloroethane	0.4325	7.27	30	Acceptable
1,1-Dichloroethane	2.4011	26.81	30	Acceptable
1,1-Dichloroethylene	1.7968	26.31	30	Acceptable
1,2,4-Trichlorobenzene	1.1760	9.86	30	Acceptable
1,2,4-Trimethylbenzene	1.8358	7.94	30	Acceptable
1,2-Dibromoethane	0.6691	7.00	30	Acceptable
1,2-Dichlorobenzene	1.1968	9.96	30	Acceptable
1,2-Dichloroethane	1.9575	27.14	30	Acceptable
1,2-Dichloropropane	0.3700	8.33	30	Acceptable
1,2-Dichlorotetrafluoroethane	2.9394	26.35	30	Acceptable
1,3,5-Trimethylbenzene	1.7874	5.49	30	Acceptable
1,3-Butadiene	0.8686	27.05	30	Acceptable
1,4-Dichlorobenzene	1.2165	5.44	30	Acceptable
1,4-Dioxane	0.2631	11.00	30	Acceptable
2,2,4-Trimethylpentane	6.6928	25.23	30	Acceptable
2-Butanone	0.7505	27.26	30	Acceptable
Acetone	0.6630	28.14	30	Acceptable
Acrolein	0.3866	28.03	30	Acceptable
Acrylonitrile	1.0468	25.14	30	Acceptable
Carbon tetrachloride	2.8426	29.76	30	Acceptable
Chloroethane	0.6277	27.14	30	Acceptable
Chloroform	2.2419	26.02	30	Acceptable
Ethanol	2.0120	27.25	30	Acceptable
Ethyl Acetate	**4.5816**	**27.20**	**30**	**Acceptable**
Isopropanol	1.9767	29.94	30	Acceptable
MTBE	3.7363	26.99	30	Acceptable
Methylene chloride	1.3816	26.85	30	Acceptable
Propylene	0.8835	27.12	30	Acceptable
Tetrahydrofuran	1.5280	27.48	30	Acceptable
trans-1,2-Dichloroethylene	1.9148	26.84	30	Acceptable
Freon 11	3.1375	27.93	30	Acceptable
Vinyl Acetate	**1.1067**	**28.88**	**30**	**Acceptable**
Vinyl Bromide	1.1311	27.59	30	Acceptable
Vinyl Chloride	1.1230	24.89	30	Acceptable

The reported RF RSD values shown in the ASP remain within the laboratory limit of 30%. In particular, **Ethyl Acetate and Vinyl Acetate passed the Initial Calibration itself**; their subsequent QA/QC issues arise during the second-source verification, CCV, and/or LCS evaluations rather than during the ICAL.

7. Deficiencies / Exceptions

Table V-6. Initial Calibration Deficiencies

Evaluation Item	Finding
RF RSD >30%	None identified in the reported calibration summary
Missing calibration documentation	None
Missing response-factor documentation	None
Calibration not associated with AIR 4	None
Laboratory rejection of calibration	None
Dataset-wide calibration failure	None

8. Independent Validator Assessment

The Initial Calibration associated with Calibration SF60002 demonstrates acceptable quantitative response and response-factor consistency for the target VOCs. The laboratory provided the calibration data, compound-specific response factors, calibration statistics, and supporting raw data necessary for independent review.

No compound-specific ICAL deficiency requiring independent data qualification was identified.

The subsequent verification exceptions affecting **Ethyl Acetate and Vinyl Acetate must not be characterized as Initial Calibration failures**. Those findings belong to the ICV/SCV and subsequent integrated qualification evaluations.

9. Data Impact Assessment

The Initial Calibration provides an acceptable analytical basis for quantitation of the environmental samples associated with SDG 26G0459. No result-specific or dataset-wide qualification is warranted solely on the basis of the Initial Calibration.

10. Validation Decision

Table V-7. Initial Calibration Validation Decision

Evaluation Item	Decision
Calibration Documentation	Acceptable
Calibration Range	Acceptable
Response-Factor Variability	Acceptable
Compound-Specific ICAL Failures	None identified
Independent Qualification Required	**No**
Rejection Required	**No**

11. Form V Conclusion

The independent review confirms that Calibration SF60002 was adequately established on Instrument AIR 4 before analysis of the environmental samples associated with SDG 26G0459. The Initial Calibration documentation is complete, the reported response-factor variability satisfies the laboratory acceptance criterion, and no ICAL deficiency was identified that warrants independent qualification or rejection of analytical results.

FORM VI: Initial Calibration Second-Source Verification (ICV/SCV)

1. Purpose

The purpose of this Independent Validation Worksheet is to evaluate the Initial Calibration Second-Source Verification (ICV/SCV) performed for Calibration **SF60002** and determine whether an independently prepared calibration standard confirmed acceptable analytical accuracy for the EPA TO-15 target VOCs.

The ICV/SCV provides an independent check of the primary calibration source. This review identifies compounds outside the laboratory acceptance criterion and determines whether those observations require immediate qualification or should be carried forward into the subsequent CCV, LCS, and sample-result evaluations.

The ASP documents the verification under Sequence **S6F0126**, Laboratory ID **S6F0126-SCV1**, using Standard ID **S26F114**.

2. Validation Criteria

The second-source calibration verification was evaluated using the following criteria:

- EPA Method TO-15.
- Instrument AIR 4.
- Calibration ID SF60002.
- Independent second-source verification standard.
- Expected concentration of 10.0 ppbv for most compounds.
- Expected concentration of 20.0 ppbv for combined p- & m-Xylenes.
- Laboratory acceptance criterion of ±30% difference.
- Compound-specific review of all reported exceedances.

Table VI-1. Initial Calibration Verification Criteria

Evaluation Item	Laboratory Requirement	Validator Evaluation
Analytical Method	EPA TO-15	Verified
Instrument	AIR 4	Verified
Calibration ID	SF60002	Verified
Verification Standard	Independent second-source standard	Verified
Expected Concentration	10.0 ppbv for most analytes	Verified
p- & m-Xylenes	20.0 ppbv	Verified
Acceptance Criterion	±30% difference	Applied
Evaluation Basis	Compound-specific	Completed

The laboratory-established acceptance criterion and expected concentrations are documented in the DUSR and supporting ASP records.

3. Laboratory Documentation Reviewed

Table VI-2. ICV/SCV Documentation Reviewed

ASP Documentation	ASP Page(s)	Review Status
Second-Source ICV/SCV Calibration Verification	207–212	✓
Initial Calibration Summary	170–178	✓
Initial Calibration Raw Data	179–206	✓
Case Narrative	17	✓
Environmental Sample Results	30–129	✓

The ASP places the second-source calibration verification immediately after the Initial Calibration and its raw data, allowing direct traceability between the primary calibration and independent verification.

4. Verification Information

Table VI-3. Second-Source Verification Information

Parameter	Laboratory Documentation
Laboratory	ALS Environmental – Queens / Queens, New York
Client	Hydro Tech Environmental
Project	152 Graham Avenue, Brooklyn, NY 240052
SDG	26G0459
Analytical Method	EPA TO-15
Instrument	AIR 4
Calibration ID	SF60002
Sequence	S6F0126
Laboratory ID	S6F0126-SCV1
Standard ID	S26F114
Expected Concentration	10.0 ppbv; 20.0 ppbv for p- & m-Xylenes
Acceptance Criterion	±30% difference

These identifiers are directly documented in the laboratory verification record.

5. Representative Acceptable ICV/SCV Results

The complete target analyte list was evaluated by the laboratory. The table below retains representative compounds demonstrating acceptable second-source verification performance.

Table VI-4. Representative Second-Source Verification Results

Compound	Expected (ppbv)	Found (ppbv)	% Difference	QC Limit	Validator Assessment
Benzene	10.0	8.32	−16.8	±30	Acceptable
Carbon Tetrachloride	10.0	9.59	−4.1	±30	Acceptable
Chloroform	10.0	9.73	−2.7	±30	Acceptable
Tetrachloroethylene	10.0	9.31	−6.9	±30	Acceptable
Trichloroethylene	10.0	9.45	−5.5	±30	Acceptable
Toluene	10.0	8.87	−11.3	±30	Acceptable
o-Xylene	10.0	8.70	−13.0	±30	Acceptable
p- & m-Xylenes	20.0	16.6	−16.8	±30	Acceptable
Propylene	10.0	8.17	−18.3	±30	Acceptable

The laboratory records confirm that Propylene was within criterion during the ICV/SCV even though it later exhibited CCV and LCS deficiencies.

6. Compounds Outside Laboratory Acceptance Criteria

Two compounds exceeded the ±30% laboratory criterion.

Table VI-5. Second-Source Verification QC Exceptions

Compound	Expected (ppbv)	Found (ppbv)	% Difference	QC Limit	Laboratory Observation	Independent Validator Assessment
Ethyl Acetate	10.0	6.39	**−36.1**	±30	Outside QC limit	Negative bias; carry forward to CCV and sample-result review
Vinyl Acetate	10.0	18.2	**+81.8**	±30	Outside QC limit	Positive verification bias; carry forward to CCV, LCS, and sample-result review

The ASP specifically identifies these two exceedances.

7. Compound-Specific Interpretation

The second-source verification findings should not be interpreted in isolation.

Ethyl Acetate exhibited a −36.1% second-source verification difference, indicating lower measured response than expected. This observation is relevant because Ethyl Acetate later exhibited a CCV deviation and was detected in the environmental samples. Its final qualification therefore requires integration of the ICV/SCV, CCV, and sample-result evidence.

Vinyl Acetate exhibited a +81.8% second-source verification difference, indicating substantial positive deviation during the second-source check. However, its later QA/QC performance also included CCV deviations and low LCS recovery. The final qualification must therefore be based on the cumulative analytical evidence rather than this ICV/SCV result alone.

The earlier DUSR correctly identified these findings as compound-specific verification issues requiring subsequent integrated evaluation rather than immediate qualification.

8. Validation Findings

- The independent second-source calibration verification was completed and documented.
- The majority of target VOCs satisfied the laboratory ±30% acceptance criterion.
- Ethyl Acetate and Vinyl Acetate were the only identified second-source verification exceptions.
- Propylene met the second-source verification criterion and therefore did not exhibit an ICV/SCV failure.
- The two identified exceptions were appropriately carried forward for evaluation with subsequent QA/QC information.
- No evidence of a dataset-wide calibration verification failure was identified.

9. Deficiencies / Exceptions

Table VI-6. ICV/SCV Deficiencies Identified

Compound	Deficiency	Potential Data Effect	Validator Action
Ethyl Acetate	−36.1% second-source verification difference	Potential low quantitative bias	Carry forward to CCV and environmental-result evaluation
Vinyl Acetate	+81.8% second-source verification difference	Potential high quantitative bias at verification stage	Carry forward to CCV, LCS, and environmental-result evaluation

No other ICV/SCV deficiencies requiring further review were identified.

10. Data Impact Assessment

The ICV/SCV demonstrates acceptable second-source calibration performance for the majority of target compounds. The exceedances for Ethyl Acetate and Vinyl Acetate indicate analyte-specific uncertainty but do not invalidate Calibration SF60002 or the analytical dataset as a whole. No final independent qualifier should be assigned **from the ICV/SCV alone**. Final qualification must consider:

- subsequent CCV performance;
- LCS recovery;
- environmental detection status;
- laboratory flags; and
- the direction and consistency of the observed analytical bias.

11. Validation Decision

Table VI-7. Second-Source Verification Validation Decision

Evaluation Item	Decision
ICV/SCV Documentation	Acceptable
Overall Second-Source Performance	Acceptable with compound-specific exceptions
Compounds Outside Criterion	Ethyl Acetate; Vinyl Acetate
Immediate Independent Qualification	No
Further Integrated Evaluation Required	**Yes**
Dataset Rejection Required	**No**

12. Form VI Conclusion

The independent review confirms that the Initial Calibration Second-Source Verification associated with Calibration SF60002 was properly performed and demonstrated acceptable calibration accuracy for the majority of target VOCs. Two compounds—**Ethyl Acetate and Vinyl Acetate**—exceeded the laboratory acceptance criterion of ±30% difference.

These exceedances are considered compound-specific QA/QC observations rather than evidence of systematic calibration failure. They are therefore carried forward into the Continuing Calibration Verification, Laboratory Control Sample, environmental-result, and final data-qualification evaluations before determining the appropriate validator qualifiers.

FORM VII: Continuing Calibration Verification (CCV) Review

1. Purpose

The purpose of this Independent Validation Worksheet is to evaluate the Continuing Calibration Verification (CCV) performed during the analysis of Sample Delivery Group (SDG) 26G0459. The review verifies that instrument calibration remained within laboratory acceptance limits throughout the analytical sequence and determines whether compound-specific calibration drift could affect the accuracy and usability of the reported environmental data.

The Continuing Calibration Verification serves as the principal measure of calibration stability following the Initial Calibration and Second-Source Verification. Consequently, compounds exceeding the laboratory acceptance criterion were evaluated individually to determine whether additional review or independent data qualification was warranted.

2. Validation Criteria

The Continuing Calibration Verification was evaluated using the following criteria:

- EPA Method TO-15.
- Instrument AIR 4.
- Continuing Calibration Verification performed at the required analytical frequency.
- Expected calibration verification concentration of 10.0 ppbv for most analytes.
- Laboratory acceptance criterion of ±30% difference.
- Compound-specific evaluation of all reported exceedances.
- Integration of CCV observations with ICV/SCV, LCS, and environmental sample results.

Table VII-1. Continuing Calibration Verification Criteria

Evaluation Item	Laboratory Requirement	Validator Evaluation
Analytical Method	EPA TO-15	Verified
Instrument	AIR 4	Verified
Verification Type	Continuing Calibration Verification	Verified
Acceptance Criterion	±30% Difference	Applied
Evaluation Basis	Compound-specific	Completed
Integration with Other QA/QC	Required	Completed

3. Laboratory Documentation Reviewed

Table VII-2. Continuing Calibration Documentation Reviewed

ASP Documentation	ASP Page(s)	Review Status
Continuing Calibration Verification	213–224	Reviewed
Initial Calibration	170–178	Reviewed
Second-Source Verification	207–212	Reviewed
Analytical Sequence Summary	163–165	Reviewed
Laboratory Case Narrative	17	Reviewed
Environmental Sample Results	27–129	Reviewed

4. Continuing Calibration Verification Summary

Unlike the Initial Calibration, the Continuing Calibration Verification identified several compound-specific exceedances that required further evaluation. The majority of analytes satisfied the laboratory acceptance criterion throughout the analytical sequence.

Table VII-3. Continuing Calibration Verification Results Within Acceptance Criteria

Compound	CCV-1 (% Difference)	CCV-2 (% Difference)	Laboratory Criterion	Assessment
Benzene	-8.4	-4.5	±30	Acceptable
Carbon Tetrachloride	-3.8	-5.1	±30	Acceptable
Chloroform	-2.7	-4.6	±30	Acceptable
Tetrachloroethylene	-7.3	-5.5	±30	Acceptable
Toluene	-11.2	-8.7	±30	Acceptable
p- & m-Xylenes	-13.6	-15.0	±30	Acceptable

5. Compounds Exceeding Continuing Calibration Criteria

This is one of the key tables in the DUSR and should not be simplified.

Table VII-4. Compounds Outside Continuing Calibration Acceptance Criteria

Compound	CCV Event	% Difference	Laboratory Limit	Validator Assessment
Ethyl Acetate	CCV-2	**−41.8**	±30	Carry forward for qualification
Propylene	CCV-1	**−41.1**	±30	Carry forward for qualification
Propylene	CCV-2	**−35.3**	±30	Persistent low bias
Vinyl Acetate	CCV-1	**+51.3**	±30	Carry forward for qualification
Vinyl Acetate	CCV-2	**−50.4**	±30	Calibration instability confirmed
1,2-Dichlorotetrafluoroethane	CCV-2	**+35.0**	±30	Review sample detection status

6. Compound-Specific Evaluation

Table VII-5. Independent Evaluation of CCV Exceedances

Compound	ICV Status	CCV Status	LCS Status	Environmental Detection	Validator Action
Propylene	Acceptable	Failed (2 CCVs)	Low Recovery	Detected in OA-2 only	Carry to Form XIII
Vinyl Acetate	Failed	Failed	Low Recovery	Non-detect	Carry to Form XIII
Ethyl Acetate	Failed	Failed	Acceptable Recovery	Detected	Carry to Form XIII
1,2-Dichlorotetrafluoroethane	Acceptable	Failed	Acceptable	Review Required	Carry to Form XIII

7. Independent Validator Assessment

The Continuing Calibration Verification demonstrates acceptable calibration stability for the majority of target VOCs. However, six compound-specific exceedances were identified during the analytical sequence.

These exceedances do not invalidate the analytical batch but indicate analyte-specific calibration drift requiring further evaluation. The observed CCV failures were integrated with the Initial Calibration Verification, Laboratory Control Sample recoveries, laboratory flags, and environmental sample detection status before determining the final validator qualifiers.

The repeated negative bias observed for **Propylene**, together with low Laboratory Control Sample recovery, provides strong evidence of reduced analytical sensitivity and supports subsequent qualification of the associated environmental results.

Similarly, the combination of second-source verification failure, Continuing Calibration Verification failure, and low Laboratory Control Sample recovery for **Vinyl Acetate** indicates persistent analytical instability, supporting qualification of all reported non-detects.

For **Ethyl Acetate**, the observed calibration drift occurred despite acceptable Laboratory Control Sample recovery, indicating that calibration instability should be considered during interpretation of detected concentrations but does not invalidate the analytical results.

8. Validation Findings

- Continuing Calibration Verification documentation was complete.
- The majority of target VOCs satisfied laboratory acceptance criteria.
- Six compound-specific CCV exceedances were identified.
- No evidence of instrument-wide calibration failure was observed.
- Compound-specific exceedances required integrated evaluation with other QA/QC elements.

9. Deficiencies / Exceptions

Table VII-6. Continuing Calibration Deficiencies

Compound	Deficiency	Validator Disposition
Propylene	Persistent CCV failure	Qualify after integrated review
Vinyl Acetate	Persistent CCV failure	Qualify after integrated review
Ethyl Acetate	Single CCV failure	Evaluate with sample results
1,2-Dichlorotetrafluoroethane	Single CCV failure	Evaluate with detection status

10. Data Impact Assessment

The Continuing Calibration Verification does not indicate a dataset-wide calibration failure. The observed deficiencies are limited to a small number of analytes and are appropriately addressed through compound-specific qualification rather than rejection of the analytical batch.

11. Validation Decision

Table VII-7. Continuing Calibration Validation Decision

Evaluation Item	**Decision**
Continuing Calibration Documentation	Acceptable
Overall Calibration Stability	Acceptable
Compound-Specific Exceptions	Four compounds
Dataset Rejection Required	No
Compound Qualification Required	**Yes**
Carry Forward to Integrated Qualification	**Yes**

12. Form VII Conclusion

The Continuing Calibration Verification confirms acceptable calibration stability for the majority of target VOCs analyzed in SDG 26G0459. Four analytes (**Propylene, Vinyl Acetate, Ethyl Acetate, and 1,2-Dichlorotetrafluoroethane**) exhibited compound-specific calibration deviations requiring integrated evaluation. These observations, together with the Initial Calibration Verification, Laboratory Control Sample recoveries, and environmental sample results, form the technical basis for the independent data qualification decisions presented in **Form XIII (Independent Data Qualification)**.

FORM VIII: Internal Standard Performance Review

1. Purpose

The purpose of this Independent Validation Worksheet is to evaluate the Internal Standard (IS) performance associated with the analysis of **Sample Delivery Group (SDG) 26G0459**. Internal Standards were reviewed to verify stability of the Gas Chromatography/Mass Spectrometry (GC/MS) analytical system throughout the analytical sequence and to determine whether instrument response and chromatographic retention remained within laboratory-established acceptance criteria.

Internal Standards provide continuous quality assurance during GC/MS analysis by monitoring instrument sensitivity, detector response, chromatographic stability, and retention-time performance. Significant changes in Internal Standard response or retention time may indicate instrument instability, matrix-related effects, injection problems, or other analytical conditions that could adversely affect reported environmental results.

For SDG 26G0459, the laboratory monitored three Internal Standards during analytical sequence **S6G1321**:

- Bromochloromethane;
- 1,4-Difluorobenzene; and
- Chlorobenzene-d5.

The detailed evaluation below incorporates the actual area-response and retention-time data reported in the Analytical Services Package (ASP).

2. Validation Criteria

Internal Standard performance was evaluated using the following criteria:

- EPA Method TO-15 analytical requirements;
- Laboratory-established Internal Standard control limits;
- Internal Standard area response relative to the laboratory reference response;
- Internal Standard retention-time deviation relative to the laboratory reference retention time;
- Performance within calibration verification samples;
- Performance within laboratory quality control samples;
- Performance within the Method Blank;
- Performance within each environmental sample analyzed under Sequence S6G1321; and
- Identification of any Internal Standard exceedances that could require independent qualification of associated analytical results.

Table VIII-1. Internal Standard Validation Criteria

Evaluation Item	Laboratory Requirement	Validator Evaluation
Analytical Method	EPA TO-15	Verified
Internal Standard Area Response	**60–140% of reference response**	Evaluated
Internal Standard Retention Time	**Within ±0.50 minutes of reference RT**	Evaluated
Calibration Verification Sample	Evaluation required	Verified
Laboratory Control Sample	Evaluation required	Verified
Method Blank	Evaluation required	Verified
Environmental Samples	Evaluation required	Verified
Internal Standard Exceedances	Evaluate for potential data impact	Completed

3. Laboratory Documentation Reviewed

The Internal Standard evaluation was based on the Internal Standard summary reports, analytical sequence documentation, environmental sample reports, and supporting laboratory narrative contained within the ASP.

Table VIII-2. Internal Standard Documentation Reviewed

ASP Documentation	ASP Page(s)	Review Status
Internal Standard Reports	166–169	Reviewed
Analytical Sequence Summaries	163–165	Reviewed
Environmental Sample Reports	27–129	Reviewed
Laboratory Case Narrative	17	Reviewed

4. Internal Standard Summary

Three Internal Standards were monitored by the laboratory during the analytical sequence supporting the original environmental sample analyses.

Table VIII-3. Internal Standards Used During Analysis

Internal Standard	Function
Bromochloromethane	Internal Standard for instrument response and chromatographic performance monitoring
1,4-Difluorobenzene	Internal Standard for instrument response and chromatographic performance monitoring
Chlorobenzene-d5	Internal Standard for instrument response and chromatographic performance monitoring

These compounds were monitored during each analytical run evaluated within Sequence **S6G1321**, including the Continuing Calibration Verification, Laboratory Control Sample, Method Blank, and five environmental samples.

5. Internal Standard Evaluation by Analytical Sequence

Internal Standard area responses were evaluated relative to the laboratory-established reference response. The applicable laboratory acceptance criterion was **60–140% of the reference response**.

Table VIII-4. Internal Standard Area Performance

Analytical Run	Bromochloromethane (%)	1,4-Difluorobenzene (%)	Chlorobenzene-d5 (%)	Acceptance Criterion	Validator Assessment
CCV1	84	81	86	60–140%	Within Limits
LCS	98	99	97	60–140%	Within Limits
Method Blank	112	112	108	60–140%	Within Limits
IA-7	99	101	98	60–140%	Within Limits
IA-8	102	101	103	60–140%	Within Limits
IA-9	101	104	102	60–140%	Within Limits
IA-10	99	102	101	60–140%	Within Limits
OA-2	101	103	100	60–140%	Within Limits

The reported Internal Standard area responses ranged from a minimum of **81%** of the reference response for 1,4-Difluorobenzene in CCV1 to a maximum of **112%** for Bromochloromethane and 1,4-Difluorobenzene in the Method Blank.

All reported area responses remained within the laboratory acceptance criterion of **60–140%**. No Internal Standard area exceedances were identified among the eight analytical runs evaluated.

The environmental samples demonstrated particularly consistent Internal Standard responses. Across IA-7, IA-8, IA-9, IA-10, and OA-2, responses ranged from **98% to 104%**, indicating stable instrument sensitivity during analysis of the environmental samples.

6. Internal Standard Retention-Time Performance

Retention-time stability was independently evaluated by comparing the observed Internal Standard retention times with their corresponding laboratory reference retention times.

The applicable laboratory acceptance criterion was **±0.50 minutes**.

Table VIII-5. Internal Standard Retention-Time Performance

Analytical Run	RT Difference Range (minutes)	Acceptance Criterion	Validator Assessment
CCV1	+0.0060 to +0.0200	±0.50	Within Limits
LCS	−0.0020 to −0.0010	±0.50	Within Limits
Method Blank	−0.0020 to 0.0000	±0.50	Within Limits
IA-7	−0.0310 to −0.0090	±0.50	Within Limits
IA-8	−0.0300 to −0.0090	±0.50	Within Limits
IA-9	−0.0300 to −0.0100	±0.50	Within Limits
IA-10	−0.0270 to −0.0100	±0.50	Within Limits
OA-2	−0.0220 to −0.0080	±0.50	Within Limits

The maximum absolute retention-time deviation identified during the reviewed analytical sequence was **0.0310 minutes**, observed within IA-7. This deviation represents only a small fraction of the laboratory acceptance criterion of ±0.50 minutes.

No significant chromatographic retention-time shift was identified for any of the three Internal Standards during the analytical sequence.

The Internal Standard documentation demonstrates stable instrument response and chromatographic performance throughout the analytical sequence. No Internal Standard area-count deviations or retention-time shifts exceeding laboratory acceptance criteria were identified.

The consistency of Internal Standard performance supports the conclusion that instrument sensitivity remained stable during analysis of the environmental samples and associated quality control samples. No evidence was identified indicating Internal Standard suppression, enhancement, or chromatographic instability that would adversely affect the reported analytical results.

7. Internal Standard Performance by Analytical Run

The combined area-response and retention-time evaluations demonstrate acceptable Internal Standard performance for every analytical run reviewed.

Table VIII-6. Internal Standard Evaluation by Analytical Run

Analytical Run	Area Response	Retention Time	Overall Validator Assessment
CCV1	Acceptable	Acceptable	Verified
Laboratory Control Sample	Acceptable	Acceptable	Verified
Method Blank	Acceptable	Acceptable	Verified
IA-7	Acceptable	Acceptable	Verified
IA-8	Acceptable	Acceptable	Verified
IA-9	Acceptable	Acceptable	Verified
IA-10	Acceptable	Acceptable	Verified
OA-2	Acceptable	Acceptable	Verified

Note: The detailed numerical results presented above apply to the eight analytical runs documented for Sequence **S6G1321**. The IA-9 laboratory reanalysis, **26G0459-03RE1**, was performed under a separate analytical sequence (**S6G1401**) and therefore should not be inserted into the S6G1321 numerical summary unless its corresponding Internal Standard data are separately presented and evaluated.

8. Internal Standard QC Performance Summary

Table VIII-7. Summary of Internal Standard QC Performance

QC Evaluation	Result
Internal Standards Monitored	**3**
Analytical Runs Evaluated in S6G1321	**8**
Minimum Area Response	**81%**
Maximum Area Response	**112%**
Area Response Acceptance Criterion	**60–140%**
Area Response Exceedances	**0**
Maximum Absolute RT Deviation	**0.0310 minutes**
RT Acceptance Criterion	**±0.50 minutes**
RT Exceedances	**0**
Laboratory QC Flags Related to Internal Standards	**None Identified**
Independent Qualification Required	**No**

The Internal Standard performance data demonstrate that all three Internal Standards satisfied both the area-response and retention-time criteria throughout the reviewed analytical sequence.

9. Independent Validator Assessment

The Internal Standard Area and Retention-Time Summary demonstrates consistent GC/MS performance throughout analytical sequence **S6G1321**. Bromochloromethane, 1,4-Difluorobenzene, and Chlorobenzene-d5 maintained area responses between **81% and 112%** of the laboratory reference response, well within the laboratory acceptance range of **60–140%**.

Retention-time performance was similarly stable. The maximum absolute retention-time deviation observed was **0.0310 minutes**, substantially below the laboratory acceptance criterion of **±0.50 minutes**.

Environmental sample Internal Standard responses were particularly consistent, with area responses between **98% and 104%** across IA-7, IA-8, IA-9, IA-10, and OA-2. These results provide strong evidence that instrument sensitivity remained stable throughout the environmental sample portion of the sequence.

No evidence was identified of Internal Standard suppression, enhancement, abnormal response loss, retention-time instability, or other GC/MS performance problems that would adversely affect identification or quantitation of the target VOCs.

The Internal Standard results therefore support the reliability of the analytical system during analysis of the associated environmental samples and laboratory QC samples.

10. Validation Findings

The independent review identified the following findings:

- Three Internal Standards were appropriately monitored during Sequence S6G1321.
- Eight analytical runs were evaluated.
- All Internal Standard area responses satisfied the **60–140%** laboratory acceptance criterion.
- Area responses ranged from **81% to 112%**.
- Environmental sample area responses ranged narrowly from **98% to 104%**.
- No Internal Standard area-response exceedances were identified.
- All Internal Standard retention-time deviations satisfied the **±0.50-minute** criterion.
- The maximum absolute retention-time deviation was only **0.0310 minutes**.
- No Internal Standard-related laboratory QC flags were identified.
- The Internal Standard performance demonstrates stable instrument response and chromatographic performance throughout the reviewed analytical sequence.

11. Deficiencies / Exceptions

No deficiencies or exceptions related to Internal Standard area response or retention-time performance were identified during the independent review of Sequence **S6G1321**.

No Internal Standard-related condition was identified that warrants qualification of the associated environmental analytical results.

12. Data Impact Assessment

Internal Standard performance provides no indication of instrument instability affecting the environmental analytical data. Both detector response and chromatographic retention remained stable throughout the analytical sequence.

Because all Internal Standard area responses and retention-time deviations were comfortably within laboratory-established acceptance limits, no adverse impact on target analyte identification, quantitation, analytical sensitivity, or overall data usability is anticipated.

Accordingly:

- no detected analytical results require qualification based on Internal Standard performance;
- no non-detected analytical results require qualification based on Internal Standard performance;
- no analytical results require rejection based on Internal Standard performance; and
- no dataset-wide limitation is warranted.

13. Validation Decision

Table VIII-8. Internal Standard Validation Decision

Evaluation Item	Decision
Internal Standard Documentation	Acceptable
Number of Internal Standards	3
Area Response Performance	Acceptable
Retention-Time Performance	Acceptable
Area Response Exceedances	None
Retention-Time Exceedances	None
Instrument Stability	Demonstrated
Independent Qualification Required	**No**
Dataset Rejection Required	**No**

14. Form VIII Conclusion

The independent review confirms satisfactory Internal Standard performance during analytical sequence **S6G1321** supporting the environmental sample analyses for SDG **26G0459**. All three monitored Internal Standards—**Bromochloromethane, 1,4-Difluorobenzene, and Chlorobenzene-d5**—complied with laboratory-established acceptance criteria for both area response and retention time.

Internal Standard area responses ranged from **81% to 112%** of the reference response, compared with the applicable acceptance range of **60–140%**. Retention-time deviations were also well controlled, with a maximum absolute deviation of only **0.0310 minutes**, compared with an acceptance criterion of **±0.50 minutes**.

No Internal Standard exceedances, related laboratory QC flags, instrument-response instability, or chromatographic deficiencies were identified. Accordingly, Internal Standard performance does **not** adversely affect the technical quality or usability of the associated analytical data, and **no independent data qualification is warranted on the basis of Internal Standard performance**.

FORM IX: Method Blank Review

1. Purpose

The purpose of this Independent Validation Worksheet is to evaluate the Method Blank analyses associated with **Sample Delivery Group (SDG) 26G0459**. The review determines whether contamination was introduced during laboratory preparation, analytical handling, or instrumental analysis and evaluates whether any blank detections could affect the reliability or usability of the associated environmental sample results.

Method Blank evaluation is an essential component of analytical data validation because it provides direct evidence of laboratory background conditions during sample analysis. Target compounds detected in a Method Blank may indicate contamination originating from analytical reagents, laboratory air, sample preparation equipment, analytical instrumentation, or other laboratory sources.

For SDG 26G0459, two Method Blanks were evaluated:

- **BG60574-BLK1**, associated with the five primary environmental samples analyzed under Sequence **S6G1321**; and
- **BG60588-BLK1**, associated with the IA-9 laboratory reanalysis **26G0459-03RE1** analyzed under Sequence **S6G1401**.

The review included evaluation of the complete target VOC list, blank-to-sample association, reported Method Blank concentrations, Reporting Limits (RLs), Method Detection Limits (MDLs), analytical sequence information, and potential impact on associated environmental results.

2. Validation Criteria

Method Blank evaluation was performed in accordance with the analytical framework established for EPA Method TO-15 and the laboratory quality assurance program. The review included:

- verification that a Method Blank was analyzed with each analytical batch;
- confirmation that each Method Blank was properly associated with its environmental samples;
- evaluation of the complete target VOC list;
- identification of compounds detected above the MDL and/or RL;
- comparison of Method Blank detections with associated environmental sample results;
- review of supporting chromatograms, quantitation reports, and ion profiles where provided;
- assessment of potential laboratory contamination; and
- determination of whether blank-related independent data qualification was warranted.

Table IX-1. Method Blank Validation Criteria

Evaluation Item	Laboratory / Validation Requirement	Validator Evaluation
Method Blank analyzed	Required for each analytical batch	Verified
Method Blank associated with analytical batch	Required	Verified
Complete target VOC list evaluated	Required	Completed
Blank detections evaluated relative to RL and MDL	Required	Completed
Environmental sample association	Required	Verified
Blank-to-sample comparison	Required	Completed

Laboratory contamination assessment	Required	Completed
Independent qualification assessment	Required where contamination may affect sample results	Completed

3. Laboratory Documentation Reviewed

The Method Blank review incorporated the laboratory Method Blank reports, analytical sequence summaries, environmental sample analytical results, Case Narrative, and supporting chromatographic documentation contained within the Analytical Services Package.

Table IX-2. Method Blank Documentation Reviewed

ASP Documentation	ASP Page(s)	Review Status
Method Blank Reports	146–156	Reviewed
Analytical Sequence Summary	163–165	Reviewed
Environmental Sample Results	27–129	Reviewed
Laboratory Case Narrative	17	Reviewed
Quantitation Reports	Included with Method Blank documentation	Reviewed
Total Ion Chromatograms (TICs)	Included with Method Blank documentation	Reviewed
Mass Spectral / Ion Profile Documentation	Included with Method Blank documentation	Reviewed

4. Method Blank Identification

Two Method Blanks were included in the ASP. The first supported the primary environmental sample batch, while the second supported the IA-9 reanalysis.

Table IX-3. Method Blank Identification Summary

Method Blank ID	Analytical Batch	Analytical Sequence	Instrument	Calibration	Analytical Date	Associated Samples
BG60574-BLK1	BG60574	S6G1321	AIR 4	SF60002	10 Jul 2026	26G0459-01, 26G0459-02, 26G0459-03, 26G0459-04, 26G0459-05
BG60588-BLK1	BG60588	S6G1401	AIR 4	SF60002	13 Jul 2026	26G0459-03RE1

The batch-to-sample relationships were confirmed using the analytical sequence documentation and the environmental sample result forms. Accordingly, the placeholder wording used during the preliminary review is no longer required.

5. Method Blank Association Matrix

Table IX-4. Method Blank Association Matrix

Method Blank	Laboratory Batch	Analytical Sequence	Environmental Samples Associated	Validator Assessment
BG60574-BLK1	BG60574	S6G1321	26G0459-01 (**IA-7**); 26G0459-02 (**IA-8**); 26G0459-03 (**IA-9**); 26G0459-04 (**IA-10**); 26G0459-05 (**OA-2**)	Appropriate association confirmed
BG60588-BLK1	BG60588	S6G1401	26G0459-03RE1 (**IA-9 Reanalysis**)	Appropriate association confirmed

This final association matrix directly links each Method Blank to the environmental analytical results that it supports and establishes complete QA/QC traceability between the blank analyses and the corresponding environmental samples.

6. Method Blank Analytical Results

Review of both Method Blank result tables confirmed that **no target VOC was detected at or above its laboratory Reporting Limit**.

However, the detailed analytical results show that **Isopropanol was detected above the Method Detection Limit but below the Reporting Limit in both Method Blanks**. Therefore, it would be technically incorrect to describe the blanks as containing no detections whatsoever.

Table IX-5. Detected Compounds in Method Blanks

Method Blank	Compound	Result (µg/m³)	RL (µg/m³)	MDL (µg/m³)	Laboratory Reporting	Validator Assessment
BG60574-BLK1	Isopropanol	**0.37**	1.5	0.059	Detected below RL	Evaluated
BG60588-BLK1	Isopropanol	**0.61**	1.5	0.059	Detected below RL	Evaluated

All remaining target VOC analytes were reported as **Not Detected (ND)** in both Method Blanks.

The Isopropanol concentrations correspond to approximately **25% of the RL** in BG60574-BLK1 and **41% of the RL** in BG60588-BLK1. Both detections remained below the established laboratory Reporting Limit of **1.5 µg/m³**.

7. Method Blank Performance Summary

Table IX-6. Method Blank Performance Summary

Evaluation Item	BG60574-BLK1	BG60588-BLK1
Analytical Method	EPA TO-15	EPA TO-15
Complete Target VOC List Evaluated	Yes	Yes
Target VOCs Detected Above RL	**None**	**None**
Target VOCs Detected Below RL	Isopropanol	Isopropanol
Isopropanol Result	0.37 µg/m³	0.61 µg/m³
Isopropanol RL	1.5 µg/m³	1.5 µg/m³
Isopropanol MDL	0.059 µg/m³	0.059 µg/m³
Other Target VOCs	ND	ND
Laboratory Contamination Requiring Qualification	None identified	None identified

The Method Blank results therefore demonstrate very low-level Isopropanol responses but no target VOC concentrations at or above laboratory reporting limits.

8. Supporting Chromatographic Review

The ASP includes supporting analytical documentation for the Method Blank analyses, including quantitation reports, Total Ion Chromatograms, extracted-ion information, and mass spectral documentation. These records were reviewed to evaluate traceability of the reported Isopropanol responses and to confirm consistency between the laboratory analytical tables and the underlying instrumental documentation.

Table IX-7. Supporting Method Blank Documentation Reviewed

Documentation	BG60574-BLK1	BG60588-BLK1	Purpose
Method Blank Data Sheet	✓	✓	Reported analytical results
Quantitation Report	✓	✓	Compound quantitation
Total Ion Chromatogram	✓	✓	Chromatographic performance
Mass Spectral Documentation	✓	✓	Compound identification support
Ion Profile / Extracted-Ion Review	✓	✓	Peak confirmation and traceability

The supporting chromatographic documentation was consistent with the laboratory-reported Method Blank results. No additional reportable target VOC contamination was identified from the documentation reviewed.

9. Blank-to-Environmental Sample Impact Assessment

The Method Blank detections were evaluated against the associated environmental sample dataset to determine whether low-level Isopropanol contamination could materially affect reported environmental results.

The primary environmental samples contained substantially higher reported Isopropanol concentrations:

- IA-7: **16 µg/m³**
- IA-8: **15 µg/m³**
- IA-9: **48 µg/m³**
- IA-10: **20 µg/m³**
- OA-2: **5.7 µg/m³**

The BG60574-BLK1 Isopropanol concentration of **0.37 µg/m³** is substantially lower than the concentrations reported in all five associated environmental samples. The environmental detections are therefore not reasonably attributable to the low-level laboratory blank response.

The second Method Blank, BG60588-BLK1, contained Isopropanol at **0.61 µg/m³**; however, the associated reanalysis **26G0459-03RE1** reports **Acetone only**. Consequently, the Isopropanol response in BG60588-BLK1 has no direct impact on the reported RE1 analytical result.

Table IX-8. Isopropanol Blank-to-Sample Comparison

Associated Result	Isopropanol Result (µg/m³)	Associated Blank	Blank Isopropanol (µg/m³)	Validator Assessment
IA-7	16	BG60574-BLK1	0.37	Environmental result substantially exceeds blank response
IA-8	15	BG60574-BLK1	0.37	Environmental result substantially exceeds blank response
IA-9	48	BG60574-BLK1	0.37	Environmental result substantially exceeds blank response
IA-10	20	BG60574-BLK1	0.37	Environmental result substantially exceeds blank response
OA-2	5.7	BG60574-BLK1	0.37	Environmental result substantially exceeds blank response
IA-9 RE1	Acetone-only reanalysis	BG60588-BLK1	0.61	No Isopropanol result reported on RE1 form; no direct effect

The blank-to-sample comparison supports the conclusion that the low-level Isopropanol responses observed in the Method Blanks do not compromise the usability of the associated environmental sample data.

10. Independent Validator Assessment

Two laboratory Method Blanks were reviewed for SDG 26G0459. Both were properly incorporated into their respective analytical sequences and were analyzed using the same instrument and calibration framework supporting their associated environmental samples.

Review of the complete target VOC results confirms that **no target analyte was detected at or above its Reporting Limit in either Method Blank**. Isopropanol was the only compound reported above the MDL, at **0.37 µg/m³** in BG60574-BLK1 and **0.61 µg/m³** in BG60588-BLK1. Both results were substantially below the laboratory RL of **1.5 µg/m³**.

The low-level Isopropanol response in BG60574-BLK1 was further evaluated against the environmental Isopropanol results. Concentrations in the associated environmental samples ranged from **5.7 to 48 µg/m³**, substantially exceeding the blank concentration of 0.37 µg/m³. The magnitude of the environmental detections demonstrates that the reported sample concentrations cannot reasonably be explained by the low-level Method Blank response.

BG60588-BLK1 supported the IA-9 reanalysis, which reported **Acetone only**. The detected Isopropanol response in this Method Blank therefore has no direct effect on the reported RE1 Acetone result.

The chromatographic and quantitation documentation was consistent with the Method Blank analytical tables. No additional laboratory contamination or blank-related analytical condition was identified that would require qualification of the environmental results.

11. Validation Findings

The independent Method Blank review identified the following findings:

- Two Method Blanks were analyzed for SDG 26G0459.
- BG60574-BLK1 was appropriately associated with the five primary environmental samples.
- BG60588-BLK1 was appropriately associated with IA-9 reanalysis 26G0459-03RE1.
- The complete target VOC list was evaluated in both Method Blanks.
- No target VOC was reported at or above its laboratory Reporting Limit.
- Isopropanol was detected below the RL in both Method Blanks.
- Isopropanol concentrations were **0.37 µg/m³** and **0.61 µg/m³**, compared with an RL of **1.5 µg/m³**.
- Environmental Isopropanol concentrations associated with BG60574-BLK1 substantially exceeded the Method Blank concentration.
- The IA-9 RE1 analysis reported Acetone only; therefore, the Isopropanol response in BG60588-BLK1 does not directly affect the reported reanalysis result.
- No Method Blank contamination requiring independent data qualification was identified.

12. Deficiencies / Exceptions

No significant Method Blank deficiency affecting environmental data usability was identified.

The presence of low-level Isopropanol in both Method Blanks is documented as a **minor laboratory blank observation**, but it does not constitute significant blank contamination requiring qualification because:

1. neither blank result exceeded the laboratory Reporting Limit;
2. the associated primary environmental Isopropanol concentrations were substantially higher than the BG60574-BLK1 response;
3. no other target VOC contamination was identified; and
4. BG60588-BLK1 is associated with an Acetone-only reanalysis, eliminating a direct Isopropanol impact on the reported RE1 result.

Accordingly, the blank detections are retained as documented QA/QC observations but do not warrant qualification of the associated environmental results.

13. Data Impact Assessment

The Method Blank evaluation provides no evidence that laboratory contamination materially affected the reported environmental VOC concentrations.

The low-level Isopropanol detections demonstrate that a small background response was present in both analytical batches; however, the concentrations remained below the laboratory Reporting Limit and did not materially affect interpretation of the associated environmental analytical results.

Therefore:

- no detected environmental result requires a **J** qualifier on the basis of Method Blank contamination;
- no non-detected result requires a **UJ** qualifier on the basis of Method Blank contamination;
- no result requires rejection;
- no dataset-wide qualification is warranted; and
- the Method Blank results do not limit overall analytical data usability.

14. Validation Decision

Table IX-9. Method Blank Validation Decision

Evaluation Item	**Decision**
Method Blank Documentation	Acceptable
Method Blanks Analyzed	2
Blank-to-Batch Association	Verified
Blank-to-Sample Association	Verified
Target VOCs Detected Above RL	None
Target VOCs Detected Below RL	Isopropanol
Significant Laboratory Contamination	**None Identified**
Environmental Data Impact	**None requiring qualification**
Independent Qualification Required	**No**
Dataset Rejection Required	**No**

15. Form IX Conclusion

The independent review confirms that the Method Blank analyses supporting **SDG 26G0459** were properly performed and correctly associated with their respective analytical batches and environmental samples.

No target VOC was detected at or above its laboratory Reporting Limit in either Method Blank. **Isopropanol was detected at 0.37 µg/m³ in BG60574-BLK1 and 0.61 µg/m³ in BG60588-BLK1**, but both concentrations remained below the laboratory Reporting Limit of **1.5 µg/m³**.

Comparison with the associated environmental results demonstrates that the Isopropanol concentrations reported in the five primary environmental samples substantially exceeded the BG60574-BLK1 concentration. The BG60588-BLK1 blank was associated with the IA-9 Acetone-only reanalysis and therefore does not directly affect a reported environmental Isopropanol result.

No significant laboratory contamination was identified that would adversely affect the technical reliability or usability of the environmental analytical data. Accordingly, **no blank-related independent qualification or data rejection is warranted**.

FORM X: Laboratory Control Sample (LCS / Blank Spike) Review

1. Purpose

The purpose of this Independent Validation Worksheet is to evaluate the **Laboratory Control Sample (LCS)**, identified in the Analytical Services Package (ASP) as the **Blank Spike**, associated with **Sample Delivery Group (SDG) 26G0459**.

The LCS evaluation provides an independent assessment of laboratory analytical accuracy by comparing the measured concentrations of fortified target volatile organic compounds (VOCs) with their known spike concentrations and the laboratory-established recovery acceptance limits. Because the LCS is prepared in a clean laboratory matrix, its performance provides a direct measure of analytical method accuracy independent of environmental sample matrix characteristics.

Two LCS/Blank Spike samples were analyzed for SDG 26G0459:

- **BG60574-BS1**, associated with the five primary environmental samples IA-7, IA-8, IA-9, IA-10, and OA-2; and
- **BG60588-BS1**, associated with the laboratory reanalysis of IA-9 (**26G0459-03RE1**).

The independent review evaluates the complete LCS performance, identifies compound-specific recovery exceptions, confirms whether those exceptions recur across analytical batches, and determines whether they should be carried forward to the integrated independent data qualification assessment.

2. Validation Criteria

The LCS/Blank Spike evaluation was performed using the following criteria:

- EPA Compendium Method TO-15;
- laboratory Form III – LCS/LCS Duplicate Recovery documentation;
- laboratory-established LCS recovery acceptance limits;
- compound-specific spike concentrations and measured concentrations;
- calculated percent recoveries;
- laboratory identification of values outside QC limits;
- analytical batch and environmental sample associations;
- consistency of recovery performance between analytical batches;
- relationship between LCS exceptions and laboratory qualifiers reported for environmental samples; and
- integration of LCS findings with ICV/SCV, CCV, and environmental sample results during final independent qualification.

The laboratory-established LCS recovery acceptance range was **70–130%** for the target VOCs evaluated.

Table X-1. Laboratory Control Sample Validation Criteria

Evaluation Item	Laboratory Requirement	Validator Evaluation
Analytical Method	EPA TO-15	Verified
QC Sample	Laboratory Control Sample / Blank Spike	Verified
LCS Analysis	Required for associated analytical batch	Verified
Recovery Evaluation	Compound-specific	Completed
Recovery Acceptance Limits	**70–130%**	Applied
Nominal Spike Concentration – Most Analytes	10.0 ppbv	Verified
p- & m-Xylenes Spike Concentration	20.0 ppbv	Verified
Laboratory Exception Indicator	Asterisk (*)	Evaluated
Meaning of Asterisk	Value outside QC limits	Verified
Cross-Batch Evaluation	Required where recurring exceptions occur	Completed
Environmental Sample Association	Required	Verified
Data Qualification Assessment	Required where recovery deficiencies may affect environmental results	Carried forward to integrated qualification

3. Laboratory Documentation Reviewed

The LCS evaluation incorporated the Blank Spike/LCS reports, analytical sequence documentation, Quality Batch Summary, Case Narrative, environmental sample results, and CCV documentation.

Table X-2. Laboratory Documentation Reviewed

ASP Documentation	ASP Page(s)	Review Status
Blank Spike / LCS Reports	130–145	Reviewed
Analytical Sequence Summary	163–165	Reviewed
Laboratory Case Narrative	17	Reviewed
Environmental Sample Results	27–129	Reviewed
CCV Documentation	213–224	Reviewed
Quality Batch Summary	Included in ASP	Reviewed

4. Laboratory Control Sample Identification and Batch Association

Two LCS/Blank Spike samples were included in the analytical program. The Quality Batch Summary and analytical sequence records establish the relationship between each LCS and the corresponding environmental analytical data.

Table X-3. LCS / Blank Spike Identification and Batch Association

LCS / Blank Spike	Batch	Preparation	Matrix	Associated Environmental Data
BG60574-BS1	BG60574	EPA TO15 PREP	Air	IA-7, IA-8, IA-9, IA-10, OA-2
BG60588-BS1	BG60588	EPA TO15 PREP	Air	IA-9 reanalysis (26G0459-03RE1)

BG60574-BS1 supports the five primary environmental samples, while BG60588-BS1 supports the separate IA-9 reanalysis. Both LCS samples were prepared using the laboratory EPA TO-15 preparation procedure and analyzed within their respective analytical batches.

5. Laboratory Acceptance Criteria

The laboratory Form III records report the amount of each target analyte added to the LCS, the measured concentration, calculated percent recovery, and applicable QC limits.

The laboratory-established recovery acceptance criterion was **70–130%**. Most analytes were fortified at **10.0 ppbv**, while p- & m-Xylenes were fortified at **20.0 ppbv**.

Table X-4. LCS Recovery Acceptance Criteria

QC Parameter	Laboratory Criterion
LCS Recovery	**70–130%**
Nominal Spike Concentration – Most Analytes	10.0 ppbv
p- & m-Xylenes Spike Concentration	20.0 ppbv
Laboratory Exception Indicator	*
Meaning of *	Value outside QC limits

Accordingly, recoveries below 70% or above 130% were treated as laboratory QC exceptions requiring evaluation for potential impact on associated environmental data.

6. LCS Performance – Batch BG60574

The LCS supporting the five primary environmental samples was **BG60574-BS1**.

Review of the laboratory Form III data demonstrates that the large majority of target analytes recovered within the laboratory-established range of 70–130%. Representative acceptable recoveries included Benzene at 83.0%, Chloroform at 116%, Cyclohexane at 78.0%, Ethyl Acetate at 78.4%, Isopropanol at 80.0%, Naphthalene at 99.2%, o-Xylene at 99.4%, p- & m-Xylenes at 92.4%, Tetrachloroethylene at 102%, Toluene at 99.9%, Trichloroethylene at 103%, and Vinyl Chloride at 109%.

Two compounds were outside the laboratory recovery criterion:

- **Propylene – 62.4% recovery**; and
- **Vinyl Acetate – 57.0% recovery**.

Both exceptions represent **low recovery**.

Table X-5. Selected LCS Recovery Results – BG60574

Compound	Spike Added (ppbv)	LCS Concentration (ppbv)	Recovery (%)	QC Limits (%)	Validator Assessment
Benzene	10.0	8.30	83.0	70–130	Within limits
Chloroform	10.0	11.6	116	70–130	Within limits
Cyclohexane	10.0	7.80	78.0	70–130	Within limits
Ethyl Acetate	10.0	7.84	78.4	70–130	Within limits
Isopropanol	10.0	8.00	80.0	70–130	Within limits
Naphthalene	10.0	9.92	99.2	70–130	Within limits
o-Xylene	10.0	9.94	99.4	70–130	Within limits
p- & m-Xylenes	20.0	18.5	92.4	70–130	Within limits
Propylene	**10.0**	**6.24**	**62.4**	**70–130**	**Outside – Low**
Tetrachloroethylene	10.0	10.2	102	70–130	Within limits
Toluene	10.0	9.99	99.9	70–130	Within limits

Trichloroethylene	10.0	10.3	103	70–130	Within limits
Vinyl Acetate	**10.0**	**5.70**	**57.0**	**70–130**	**Outside – Low**
Vinyl Chloride	10.0	10.9	109	70–130	Within limits

The laboratory explicitly identified Propylene and Vinyl Acetate as recovery exceptions. The remaining reported target analytes satisfied the laboratory-established LCS acceptance limits.

7. LCS Performance – Batch BG60588

The second LCS, **BG60588-BS1**, was associated with the IA-9 laboratory reanalysis.

The majority of target analytes again satisfied the 70–130% recovery criterion. Representative acceptable recoveries included Benzene at 79.3%, Chloroform at 111%, Cyclohexane at 75.4%, Ethyl Acetate at 73.7%, Isopropanol at 75.0%, Naphthalene at 84.7%, o-Xylene at 96.4%, p- & m-Xylenes at 95.7%, Tetrachloroethylene at 97.0%, Tetrahydrofuran at 70.7%, Toluene at 94.9%, Trichloroethylene at 99.4%, and Vinyl Chloride at 116%.

The same two analytes identified in BG60574 again exhibited low recovery:

- **Propylene – 60.6% recovery**; and
- **Vinyl Acetate – 47.0% recovery**.

Table X-6. Selected LCS Recovery Results – BG60588

Compound	Spike Added (ppbv)	LCS Concentration (ppbv)	Recovery (%)	QC Limits (%)	Validator Assessment
Benzene	10.0	7.93	79.3	70–130	Within limits
Chloroform	10.0	11.1	111	70–130	Within limits
Cyclohexane	10.0	7.54	75.4	70–130	Within limits
Ethyl Acetate	10.0	7.37	73.7	70–130	Within limits
Isopropanol	10.0	7.50	75.0	70–130	Within limits
Naphthalene	10.0	8.47	84.7	70–130	Within limits
o-Xylene	10.0	9.64	96.4	70–130	Within limits
p- & m-Xylenes	20.0	19.1	95.7	70–130	Within limits
Propylene	**10.0**	**6.06**	**60.6**	**70–130**	**Outside – Low**
Tetrachloroethylene	10.0	9.70	97.0	70–130	Within limits
Tetrahydrofuran	10.0	7.07	70.7	70–130	Within limits
Toluene	10.0	9.49	94.9	70–130	Within limits
Trichloroethylene	10.0	9.94	99.4	70–130	Within limits
Vinyl Acetate	**10.0**	**4.70**	**47.0**	**70–130**	**Outside – Low**
Vinyl Chloride	10.0	11.6	116	70–130	Within limits

The laboratory again explicitly identified Propylene and Vinyl Acetate as outside its QC recovery limits.

8. Cross-Batch LCS Exception Review

The recurrence of the same low-recovery analytes in both analytical batches provides important information regarding the nature of the LCS exceptions.

Table X-7. LCS QC Exceptions Across Analytical Batches

Analyte	BG60574 Recovery	BG60588 Recovery	QC Range	Direction	Repeated Exception
Propylene	**62.4%**	**60.6%**	70–130%	Low	**Yes**
Vinyl Acetate	**57.0%**	**47.0%**	70–130%	Low	**Yes**

Propylene exhibited similar low recovery in both batches, with values of 62.4% and 60.6%. Vinyl Acetate exhibited a more pronounced low-recovery condition, decreasing from 57.0% in BG60574 to 47.0% in BG60588.

Because the same two analytes failed in the same direction in two independently prepared LCS samples, the observations are not treated as isolated single-batch anomalies. They demonstrate recurring analyte-specific low-recovery behavior under the analytical conditions represented by the two batches.

This finding is consistent with the laboratory's use of the **TO-LCS-L** qualifier for the affected environmental sample

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9. Relationship of LCS Exceptions to Environmental Sample Results

The LCS exceptions were compared directly with the environmental sample result sheets to determine the nature of the potentially affected data.

Table X-8. Relationship Between LCS Exceptions and Reported Environmental Results

Analyte	LCS Condition	IA-7	IA-8	IA-9	IA-10	OA-2	IA-9RE1
Propylene	Low recovery in both LCS batches	ND; TO-CCV + TO-LCS-L	ND; TO-CCV + TO-LCS-L	ND; TO-CCV + TO-LCS-L	ND; TO-CCV + TO-LCS-L	**0.76 µg/m³; TO-CCV + TO-LCS-L**	Not reported in RE1
Vinyl Acetate	Low recovery in both LCS batches	ND; TO-LCS-L	ND; TO-LCS-L	ND; TO-LCS-L	ND; TO-LCS-L	ND; TO-LCS-L	Not reported in RE1

The laboratory propagated the LCS-related QC condition to the applicable primary environmental sample results.

For **Propylene**, four primary environmental samples—IA-7, IA-8, IA-9, and IA-10—were reported as non-detects, while OA-2 contained a detected concentration of **0.76 µg/m³**. The Propylene results also carry the **TO-CCV** qualifier because this analyte exhibited continuing calibration verification deficiencies in addition to low LCS recovery.

For **Vinyl Acetate**, all five primary environmental samples were reported as non-detects and carry the **TO-LCS-L** condition.

Neither Propylene nor Vinyl Acetate was reported on the **IA-9RE1** analytical result form. Consequently, although BG60588-BS1 demonstrates recurrence of the low-recovery condition, the reanalysis itself does not provide an environmental Propylene or Vinyl Acetate result requiring qualification.

10. Compound-Specific LCS Assessment

Table X-9. Independent Assessment of LCS Exceptions

Compound	LCS Performance	Environmental Detection Status	Independent Validator Assessment
Propylene	Low recovery in both batches: 62.4% and 60.6%	ND in IA-7 through IA-10; detected at 0.76 µg/m³ in OA-2	Recurring low recovery indicates potential low bias/reduced sensitivity. Carry forward to integrated qualification with CCV findings.
Vinyl Acetate	Low recovery in both batches: 57.0% and 47.0%	ND in all five primary environmental samples	Recurring low recovery indicates reduced analytical sensitivity. Carry forward to integrated qualification.
Ethyl Acetate	Acceptable recovery: 78.4% in BG60574 and 73.7% in BG60588	Detected in primary environmental samples	No LCS-related qualification warranted. Calibration findings evaluated separately.
Remaining Target VOCs	Within laboratory acceptance limits	Detected and/or non-detected depending on analyte	No LCS-related qualification warranted based on the LCS data reviewed.

11. Relationship to Calibration Verification Findings

The LCS findings were evaluated together with the calibration verification results because independent qualification should consider the cumulative analytical evidence rather than individual QC observations in isolation.

For **Propylene**, low LCS recovery occurred in both analytical batches. The environmental result sheets also carry **TO-CCV**, indicating that Propylene was affected by continuing calibration performance observations. The agreement between low LCS recovery and low-bias calibration performance strengthens the evidence for analyte-specific quantitative uncertainty and potential reduced analytical sensitivity.

For **Vinyl Acetate**, the recurring LCS low-recovery condition demonstrates reduced recovery in both batches. Calibration verification observations identified elsewhere in the validation further contribute to the overall assessment of analytical uncertainty for this compound.

For **Ethyl Acetate**, the LCS recoveries were acceptable in both batches—**78.4%** and **73.7%**. Therefore, the LCS does not independently support qualification of Ethyl Acetate. Any final qualification assigned to Ethyl Acetate must instead be based on the applicable calibration verification findings.

The LCS findings therefore support a **compound-specific, weight-of-evidence approach** rather than rejection or qualification of the complete analytical batch.

12. Independent Validator Assessment

Two LCS/Blank Spike analyses were reviewed for SDG 26G0459. Both were properly associated with their respective analytical batches, and both applied the laboratory-established recovery acceptance criterion of **70–130%**.

The LCS results demonstrate acceptable analytical accuracy for the large majority of target VOCs. The recovery results do not indicate a generalized or systematic failure of the EPA TO-15 analytical process.

Two recurring analyte-specific exceptions were identified:

Propylene recovered at **62.4%** in BG60574-BS1 and **60.6%** in BG60588-BS1. Both values are below the 70% lower acceptance limit. The consistency of these results demonstrates recurring low recovery and therefore indicates the potential for low quantitative bias or reduced sensitivity for Propylene.

Vinyl Acetate recovered at **57.0%** in BG60574-BS1 and **47.0%** in BG60588-BS1. These results also demonstrate recurring low recovery, with a more substantial deficiency than observed for Propylene. The low recoveries indicate reduced analytical sensitivity and increased uncertainty for Vinyl Acetate.

The repeated occurrence of the same two low-recovery compounds across both LCS batches supports the conclusion that these observations represent **analyte-specific analytical limitations rather than isolated random QC events**.

The environmental sample review confirms that the laboratory appropriately propagated **TO-LCS-L** to the applicable primary environmental sample results. Propylene additionally carries **TO-CCV**, demonstrating that its LCS condition must be integrated with the independent CCV assessment.

Importantly, this form documents and evaluates the LCS deficiencies but does **not independently assign final J, UJ, or R qualifiers**. Final result-specific qualification requires integration of the LCS results with calibration verification performance, environmental detection status, and the other applicable QA/QC findings. Those decisions are made in the integrated independent qualification form.

13. Validation Findings

The independent LCS review identified the following findings:

- Two LCS/Blank Spike samples were analyzed for SDG 26G0459.
- BG60574-BS1 was appropriately associated with the five primary environmental samples.
- BG60588-BS1 was appropriately associated with the IA-9 laboratory reanalysis.
- The laboratory applied a **70–130%** LCS recovery criterion.
- The majority of target VOCs satisfied the laboratory recovery criterion in both analytical batches.
- **Propylene** exhibited low recovery in both batches: **62.4%** and **60.6%**.
- **Vinyl Acetate** exhibited low recovery in both batches: **57.0%** and **47.0%**.
- Both Propylene and Vinyl Acetate demonstrated recurring low-recovery behavior.
- Ethyl Acetate exhibited acceptable LCS recoveries of **78.4%** and **73.7%**.
- The laboratory carried **TO-LCS-L** to the applicable environmental results for Propylene and Vinyl Acetate.
- Propylene environmental results also carry **TO-CCV**.
- No evidence of systematic LCS failure affecting the complete target analyte list was identified.
- The LCS exceptions support compound-specific evaluation rather than analytical batch rejection.

14. Deficiencies / Exceptions

Table X-10. Laboratory Control Sample Deficiencies

Compound	BG60574	BG60588	Recovery Deficiency	Validator Disposition
Propylene	62.4%	60.6%	Recovery below 70% in both batches	Carry forward to integrated qualification with CCV findings
Vinyl Acetate	57.0%	47.0%	Recovery below 70% in both batches	Carry forward to integrated qualification
Ethyl Acetate	78.4%	73.7%	None	No LCS-related qualification
Remaining Target VOCs	Within limits	Within limits	None identified	No LCS-related qualification

The identified deficiencies are limited to Propylene and Vinyl Acetate. No dataset-wide LCS deficiency was identified.

15. Data Impact Assessment

The LCS deficiencies demonstrate reduced analytical recovery for **Propylene** and **Vinyl Acetate**. Because both compounds exhibited low recovery in both analytical batches, the condition represents a reproducible analyte-specific analytical limitation.

Low LCS recovery may result in **low quantitative bias and/or reduced analytical sensitivity**. The potential data impact therefore depends on whether the associated environmental result is a detection or a non-detect:

- for a **detected result**, low recovery may indicate that the reported concentration is biased low and should be evaluated for estimation;
- for a **non-detect**, low recovery may reduce confidence that the analytical procedure would have detected the analyte at the stated reporting capability.

For Propylene, this distinction is particularly important because it was not detected in IA-7 through IA-10 but was detected at **0.76 µg/m³ in OA-2**. Its environmental results are also affected by the CCV observations.

Vinyl Acetate was non-detect in all five primary environmental samples; therefore, the principal concern is reduced analytical sensitivity associated with recurring low recovery.

The LCS performance for the remaining target VOCs was acceptable. Consequently, no LCS-related limitation is warranted for those compounds.

The identified LCS exceptions do **not** support rejection of either analytical batch or the dataset as a whole.

16. Validation Decision

Table X-11. Laboratory Control Sample Validation Decision

Evaluation Item	Decision
LCS Documentation	**Acceptable**
Number of LCS / Blank Spike Samples Reviewed	**2**
Recovery Acceptance Criterion	**70–130%**
Overall LCS Performance	**Acceptable with compound-specific exceptions**
Compounds Outside Acceptance Limits	**Propylene; Vinyl Acetate**
Direction of Exceptions	**Low Recovery**
Exceptions Repeated Across Both Batches	**Yes**
Ethyl Acetate LCS Performance	**Acceptable**
Remaining Target VOCs	**Acceptable**
Compound-Specific Data Impact	**Yes – requires integrated evaluation**
Independent Qualifiers Assigned in Form X	**No – carried forward**
Carry Forward to Integrated Qualification	**Yes**
Analytical Batch Rejection Required	**No**
Dataset Rejection Required	**No**

17. Form X Conclusion

The independent review confirms that the two **Laboratory Control Sample / Blank Spike** analyses supporting **SDG 26G0459** demonstrate acceptable analytical accuracy for the majority of target VOCs. The laboratory-established recovery criterion of **70–130%** was satisfied for the large majority of compounds in both analytical batches.

Two recurring compound-specific exceptions were identified. **Propylene** recovered at **62.4% in BG60574-BS1 and 60.6% in BG60588-BS1**, while **Vinyl Acetate** recovered at **57.0% and 47.0%**, respectively. Both analytes therefore exhibited low recovery in two separate analytical batches.

The repeated low-recovery pattern indicates analyte-specific potential for **low quantitative bias and reduced analytical sensitivity**. The laboratory appropriately carried the **TO-LCS-L** condition to the applicable environmental sample results. For Propylene, the LCS observation is additionally supported by the **TO-CCV** condition documented in the environmental results and must therefore be evaluated together with the continuing calibration findings.

In contrast, **Ethyl Acetate exhibited acceptable LCS recovery in both batches (78.4% and 73.7%)**. Accordingly, the LCS data provide no independent basis for qualification of Ethyl Acetate; any qualification of that analyte must be supported by the applicable calibration verification evidence.

No evidence of systematic LCS failure was identified, and the LCS exceptions do not warrant rejection of either analytical batch or the dataset as a whole. The Propylene and Vinyl Acetate recovery deficiencies are therefore **carried forward to the integrated independent data qualification assessment**, where the LCS findings are considered together with ICV/SCV performance, CCV performance, environmental detection status, and other applicable QA/QC evidence before final validator qualifiers are assigned.

FORM XI: Analytical Sequence Review

1. Purpose

The purpose of this Independent Validation Worksheet is to evaluate the analytical sequence associated with Sample Delivery Group (SDG) 26G0459. The review verifies that quality control samples, calibration verification standards, laboratory control samples, method blanks, and environmental samples were analyzed in the proper sequence in accordance with EPA Method TO-15 and laboratory quality assurance procedures.

The analytical sequence was independently reviewed to confirm that calibration verification, instrument performance, and laboratory quality control samples appropriately bracketed the environmental sample analyses and that no sequence-related deficiencies were identified that could adversely affect analytical data quality.

2. Validation Criteria

The analytical sequence was evaluated using the following criteria:

- Instrument performance (BFB Tune) completed before analytical runs.
- Continuing Calibration Verification (CCV) performed at the required frequency.
- Method Blank analyzed within each analytical batch.
- Laboratory Control Sample (Blank Spike) analyzed within each analytical batch.
- Environmental samples analyzed under acceptable calibration conditions.
- Analytical sequence documentation complete and internally consistent.

Table XI-1. Analytical Sequence Validation Criteria

Evaluation Item	Laboratory Requirement	Validator Evaluation
Instrument Tune	Required	Verified
Continuing Calibration Verification	Required	Verified
Method Blank	Required	Verified
Laboratory Control Sample	Required	Verified
Environmental Samples	Properly sequenced	Verified
Sequence Documentation	Complete	Verified

3. Laboratory Documentation Reviewed

Table XI-2. Documentation Reviewed

ASP Documentation	ASP Page(s)	Review Status
Analytical Sequence Summary	163–165	Reviewed
Instrument Tune	157–162	Reviewed
Continuing Calibration Verification	213–224	Reviewed
Laboratory Control Samples	130–145	Reviewed
Method Blanks	146–156	Reviewed
Environmental Sample Reports	27–129	Reviewed

4. Analytical Sequence

Table XI-3. Analytical Sequence Summary

Analytical Order	Laboratory ID	Sample Type	Validator Assessment
1	BFB Tune	Instrument Performance	Acceptable
2	CCV	Continuing Calibration Verification	Acceptable
3	BG60574-BS1	Laboratory Control Sample	Acceptable
4	BG60574-BLK1	Method Blank	Acceptable
5	26G0459-01	IA-7	Acceptable
6	26G0459-02	IA-8	Acceptable
7	26G0459-03	IA-9	Acceptable
8	26G0459-04	IA-10	Acceptable
9	26G0459-05	OA-2	Acceptable
10	CCV	Continuing Calibration Verification	Acceptable

5. Sequence Integrity Evaluation

Table XI-4. Sequence Integrity Assessment

QA/QC Element	Position Within Sequence	Validator Assessment
Instrument Tune	Before analysis	Acceptable
Initial CCV	Before environmental samples	Acceptable
Laboratory Control Sample	Before environmental samples	Acceptable
Method Blank	Before environmental samples	Acceptable
Environmental Samples	Correct sequence	Acceptable
Closing CCV	End of analytical sequence	Acceptable

6. Independent Validator Assessment

The analytical sequence documentation demonstrates that all required quality control samples were analyzed in the appropriate order relative to the environmental samples. Instrument performance verification, calibration verification, laboratory control samples, and method blanks preceded the environmental analyses and were appropriately incorporated into the analytical sequence.

The sequence documentation confirms that the environmental samples were analyzed under verified instrument performance and acceptable calibration conditions. No deviations from the prescribed analytical sequence were identified.

Although compound-specific deficiencies were observed in the Continuing Calibration Verification and Laboratory Control Sample evaluations, these deficiencies are attributable to individual analytes rather than improper analytical sequencing.

7. Validation Findings

- Analytical sequence documentation was complete.
- Instrument performance verification preceded environmental analyses.
- Calibration verification was performed at the required frequency.
- Method Blank and Laboratory Control Sample were correctly positioned within the analytical sequence.
- Environmental samples were analyzed under acceptable analytical conditions.
- No sequence-related deficiencies were identified.

8. Deficiencies / Exceptions

No deficiencies or exceptions associated with the analytical sequence were identified.

9. Data Impact Assessment

The analytical sequence demonstrates that the laboratory followed the required analytical order and incorporated all mandatory quality control elements. Accordingly, no limitations on data usability are attributable to analytical sequence management.

10. Validation Decision

Table XI-5. Analytical Sequence Validation Decision

Evaluation Item	**Decision**
Analytical Sequence Documentation	Acceptable
QC Sample Placement	Acceptable
Instrument Verification	Acceptable
Sequence Integrity	Acceptable
Independent Qualification Required	**No**
Dataset Rejection Required	**No**

11. Form XI Conclusion

The independent review confirms that the analytical sequence supporting SDG 26G0459 was properly designed and executed. Instrument performance verification, calibration verification, method blanks, laboratory control samples, and environmental sample analyses were performed in the appropriate order and provide an acceptable analytical framework for the reported data. No sequence-related deficiencies were identified that would require independent data qualification.

FORM XII: ENVIRONMENTAL SAMPLE RESULT VALIDATION

A. Purpose

The purpose of this validation form is to independently evaluate the environmental analytical results reported for Sample Delivery Group (SDG) **26G0459** following completion of the administrative review, sample traceability verification, instrument performance evaluation, calibration assessment, laboratory quality control review, and analytical quality assurance evaluation.

This review determines whether the reported volatile organic compound (VOC) concentrations are technically supported by the Analytical Services Package (ASP) and whether any analytical observations identified during previous validation steps require independent qualification of the environmental data.

The evaluation integrates all preceding quality assurance findings, including instrument performance, initial calibration, second-source calibration verification, continuing calibration verification, internal standard performance, laboratory control sample recovery, method blank performance, analytical sequence review, and laboratory reporting qualifiers. The objective is to determine the overall analytical validity and usability of each reported environmental sample result.

B. Validation Criteria

Environmental sample analytical results were evaluated using the following criteria:

Table XII-1. Environmental Result Validation Criteria

Evaluation Item	Validation Requirement	Validator Assessment
Analytical Method	EPA TO-15	Verified
Sample Identification	Laboratory ID and Client Sample ID consistent	Verified
Analytical Reporting	Complete laboratory analytical report	Verified
Reporting Limits	RL and MDL reported	Verified
Laboratory Qualifiers	Evaluated	Completed
Calibration Support	ICAL, ICV and CCV acceptable	Reviewed
Laboratory QA/QC	Blank, LCS, Internal Standards	Reviewed
Independent Qualification	Compound-specific assessment	Completed

C. Laboratory Documentation Reviewed

Table XII-2. Documentation Reviewed

ASP Documentation	ASP Pages	Review Status
Environmental Sample Reports	30–129	Reviewed
Laboratory Case Narrative	17	Reviewed
Analytical Reporting Limits	27–29	Reviewed
Analytical Sequence	163–165	Reviewed
Continuing Calibration Verification	213–224	Reviewed
Initial Calibration Verification	207–212	Reviewed
Laboratory Control Samples	130–145	Reviewed
Method Blanks	146–156	Reviewed

D. Environmental Samples Reviewed

The Analytical Services Package includes five original environmental air samples and one laboratory reanalysis. All samples were collected on **08 July 2026** under Client Project **152 Graham Avenue, Brooklyn, NY 240052** and analyzed using EPA Method TO-15. One sample (IA-9) underwent laboratory reanalysis to report Acetone, resulting in the supplemental analytical report **26G0459-03RE1**. The analytical sequence and reporting chronology were verified during the validation process.

Table XII-3. Environmental Samples Reviewed

Laboratory Sample	Laboratory ID	Matrix	Collection Date	Analysis Date	Analytical Sequence
IA-7	26G0459-01	Indoor Ambient Air	08 Jul 2026	10 Jul 2026	S6G1321
IA-8	26G0459-02	Indoor Ambient Air	08 Jul 2026	10 Jul 2026	S6G1321
IA-9	26G0459-03	Indoor Ambient Air	08 Jul 2026	10 Jul 2026	S6G1321
IA-9 (Reanalysis)	26G0459-03RE1	Indoor Ambient Air	08 Jul 2026	13 Jul 2026	S6G1401
IA-10	26G0459-04	Indoor Ambient Air	08 Jul 2026	10 Jul 2026	S6G1321
OA-2	26G0459-05	Outdoor Ambient Air	08 Jul 2026	10 Jul 2026	S6G1321

E. Analytical Summary

The laboratory analyzed five environmental ambient air samples together with one laboratory reanalysis using **EPA Method TO-15** following sample preparation by **EPA TO15 PREP**. Indoor and outdoor ambient air matrices were analyzed by ALS Environmental–Queens using gas chromatography/mass spectrometry (GC/MS). The analytical review confirmed that all environmental samples were processed within the documented analytical sequence and supported by the required laboratory quality control documentation.

Table XII-4. Analytical Summary

Evaluation Item	Result
Analytical Method	EPA TO-15
Sample Preparation	EPA TO15 PREP
Matrix	Indoor and Outdoor Ambient Air
Environmental Samples	5
Laboratory Reanalysis	1
Analytical Laboratory	ALS Environmental – Queens

F. Detected Target Volatile Organic Compounds

Table XII-5 summarizes all target volatile organic compounds reported above the laboratory reporting limits within the environmental samples. The table represents the validated analytical results extracted directly from the Analytical Services Package and provides the basis for the independent evaluation of laboratory qualifiers and subsequent compound-specific data qualification.

Table XII-5. Detected Target VOCs by Environmental Sample (µg/m³)

Analyte	IA-7	IA-8	IA-9	IA-10	OA-2
2,2,4-Trimethylpentane	0.67	ND	0.44	0.75	0.47
Naphthalene	1.2	0.93	0.89	1.4	1.9
1,2,4-Trimethylbenzene	2.6	3.3	6.3	6.3	0.59
1,3,5-Trimethylbenzene	0.80	0.97	2.0	2.2	ND
1,3-Butadiene	ND	0.25	0.85	4.8	ND
2-Butanone	1.5	1.2	4.2	4.9	2.4
2-Hexanone	ND	ND	ND	0.43	0.45
4-Methyl-2-pentanone	ND	ND	0.42	ND	1.5
Acetone	18	25	**120 (RE1)**	56	21
Benzene	3.6	0.90	0.93	0.66	0.39
Bromodichloromethane	0.70	ND	ND	ND	ND
Carbon disulfide	ND	ND	0.50	ND	ND
Chloroform	9.7	2.2	4.4	6.5	ND
Chloromethane	1.2	0.97	1.3	1.1	0.96
Cyclohexane	1.1	0.65	3.5	2.7	0.62
Dichlorodifluoromethane	1.6	1.6	1.7	1.6	1.6
Ethyl Acetate	1.4	1.2	2.7	2.6	1.3
Ethylbenzene	0.95	0.94	5.5	9.2	ND
Isopropanol	16	15	48	20	5.7
Methyl Methacrylate	0.39	0.58	ND	0.46	ND
Methylene Chloride	0.40	0.33	0.52	ND	0.38
n-Heptane	ND	ND	1.2	0.74	ND
n-Hexane	ND	0.40	0.63	0.57	0.35
o-Xylene	1.2	1.2	5.4	9.0	ND
p- & m-Xylenes	4.6	4.9	31	71	1.4
p-Ethyltoluene	1.4	1.9	3.6	3.4	0.69
Propylene	ND	ND	ND	ND	0.76
Styrene	ND	ND	0.92	ND	ND
Tetrachloroethylene	3.2	2.8	4.3	2.7	2.0
Tetrahydrofuran	0.42	ND	ND	ND	ND
Toluene	1.9	1.7	4.1	2.8	1.3
Trichloroethylene	ND	ND	1.6	1.3	ND
Trichlorofluoromethane (Freon 11)	1.1	1.1	1.1	1.1	1.2

G. Sample-Level Analytical Detection Summary

The detected VOC concentrations demonstrate measurable differences among the indoor ambient air samples (IA-7 through IA-10) and the outdoor ambient air sample (OA-2). IA-10 exhibited the greatest number of elevated VOC concentrations, particularly for aromatic hydrocarbons, ketones, and petroleum-related compounds, whereas OA-2 generally contained lower concentrations for most detected analytes. Several compounds, including Dichlorodifluoromethane and Trichlorofluoromethane (Freon 11), were consistently detected at similar concentrations across all samples, indicating stable analytical performance for these compounds.

The laboratory subsequently reanalyzed Sample IA-9 (Laboratory Sample 26G0459-03RE1) specifically to report Acetone, which was not included in the original analytical report. The reanalysis identified Acetone at **120 µg/m³**, and this value has been adopted as the validated analytical result for IA-9.

Table XII-6. Sample-Level Analytical Detection Summary

Sample	General Observations	Highest Reported VOCs
IA-7	Moderate number of VOC detections with relatively low concentrations. Aromatic compounds and chlorinated VOCs were present.	Acetone (18), Isopropanol (16), Chloroform (9.7), p- & m-Xylenes (4.6), Benzene (3.6)
IA-8	Similar analytical profile to IA-7 with generally low concentrations.	Acetone (25), Isopropanol (15), p- & m-Xylenes (4.9), 1,2,4-Trimethylbenzene (3.3), Tetrachloroethylene (2.8)
IA-9	Largest number of detected target VOCs among the original analytical reports. Reanalysis performed for Acetone.	**Acetone (120 RE1)**, Isopropanol (48), p- & m-Xylenes (31), Ethylbenzene (5.5), o-Xylene (5.4), 1,2,4-Trimethylbenzene (6.3)
IA-10	Highest concentrations for several aromatic hydrocarbons and ketones.	p- & m-Xylenes (71), Acetone (56), Isopropanol (20), Ethylbenzene (9.2), o-Xylene (9.0), Chloroform (6.5)
OA-2	Outdoor sample generally exhibited lower VOC concentrations than indoor samples.	Acetone (21), Isopropanol (5.7), Tetrachloroethylene (2.0), Naphthalene (1.9), p- & m-Xylenes (1.4)

H. Laboratory Analytical Flags Applied to Environmental Results

Laboratory analytical qualifiers reported within the Analytical Services Package were independently reviewed to determine whether the reported flags appropriately reflected analytical observations identified during calibration, quality control, and instrument performance evaluations. The reported qualifiers are laboratory-generated indicators intended to identify analytical conditions requiring reviewer attention and do not, by themselves, constitute independent validation qualifiers.

The majority of laboratory qualifiers were directly supported by observations documented during the calibration verification and laboratory quality control evaluations. The reported qualifiers were therefore considered appropriate for use during the independent validation process.

Table XII-7. Laboratory Analytical Flags Applied to Environmental Results

Laboratory Flag	Description	Affected Analytes	Independent Assessment
U	Compound not detected above the reporting limit	Numerous target VOCs	Acceptable laboratory reporting convention
D	Reported value associated with a diluted analysis or applicable laboratory dilution condition	Applicable diluted results	Evaluated during result and dilution review
TO-CCV	Continuing Calibration Verification observation	Ethyl Acetate; Propylene; selected compounds	Reviewed during CCV evaluation
TO-LCS-L	Low Laboratory Control Sample recovery	Propylene; Vinyl Acetate	Independently evaluated
TO-ICV	Initial Calibration Verification observation	Selected analytes	Independently evaluated
TO-MPX	Reporting convention associated with p- & m-Xylenes	p- & m-Xylenes	Informational; no independent qualification required

I. Environmental Results Associated with Laboratory QA/QC Observations

Following completion of the calibration, laboratory control sample, method blank, and internal standard evaluations, only a limited number of analytes remained subject to independent technical review. These compounds were identified because laboratory quality control observations could influence analytical confidence or measurement uncertainty.

Table XII-8. Environmental Results Associated with QA/QC Observations

Compound	Environmental Results	Laboratory Observation	Independent Assessment
Propylene	ND (IA-7 to IA-10); 0.76 µg/m³ (OA-2)	Low LCS recovery; CCV drift	Subject to independent qualification
Vinyl Acetate	ND in all samples	Low LCS recovery; calibration observations	Subject to independent qualification
Ethyl Acetate	Detected in all samples (1.2–2.7 µg/m³)	CCV drift	Subject to independent review
1,2-Dichlorotetrafluoroethane	Laboratory observation only	CCV high recovery	Reviewed; no significant impact identified
p- & m-Xylenes	Detected in all samples	Laboratory reporting convention (TO-MPX)	No independent qualification required

J. Reporting Limits and Analytical Reporting Review

All environmental analytical reports included laboratory reporting limits (RLs), method detection limits (MDLs), analytical dilution factors, reporting units, analytical method references, and laboratory qualifiers. Review of the analytical reports confirmed that the reporting format was internally consistent across all environmental samples and complied with the reporting requirements of EPA Method TO-15.

The reported dilution factors remained appropriate for the concentrations measured within the environmental samples, and no excessive dilution was identified that would adversely affect analytical sensitivity.

Table XII-9. Reporting Information Review

Reporting Component	Assessment
Reporting Limits (RLs)	Complete
Method Detection Limits (MDLs)	Complete
Reporting Units	µg/m³
Analytical Method	EPA TO-15
Dilution Factors	Appropriate
Laboratory Reporting Format	Consistent
Laboratory Qualifiers	Documented

K. IA-9 Laboratory Reanalysis

The original analytical report for Sample IA-9 (Laboratory Sample 26G0459-03) did not report a concentration for Acetone. The laboratory subsequently performed a supplemental analysis under Laboratory Sample **26G0459-03RE1**, generating a separate analytical report dated **13 July 2026**.

The reanalysis reported an Acetone concentration of **120 µg/m³**, with a reporting limit of **21 µg/m³** and a method detection limit of **2.2 µg/m³**. The reanalysis was completed using the same analytical method (EPA TO-15) and laboratory instrumentation and is considered the definitive laboratory result for Acetone in Sample IA-9.

Table XII-10. IA-9 Reanalysis Summary

Parameter	Result
Sample	IA-9
Laboratory Sample	26G0459-03RE1
Analyte	Acetone
Reported Concentration	**120 µg/m³**
Reporting Limit	21 µg/m³
Method Detection Limit	2.2 µg/m³
Analytical Method	EPA TO-15
Validation Decision	Accepted as the validated Acetone result for IA-9

L. Sample-to-QA/QC Traceability Matrix

Each environmental sample was independently traced through the complete analytical workflow, beginning with laboratory receipt and sample login, through sample preparation, analytical sequence, quality control batch assignment, calibration verification, and final reporting. This review confirms that each environmental sample is supported by the appropriate quality assurance documentation and that the analytical results can be traced directly to the corresponding laboratory quality control records.

The traceability assessment demonstrated complete linkage between the environmental samples, analytical sequences, calibration verification records, method blanks, laboratory control samples, and the final analytical reports. Sample IA-9 was additionally traced to the supplemental laboratory reanalysis (26G0459-03RE1) performed under analytical sequence **S6G1401**, confirming the analytical basis for the reported Acetone concentration of **120 µg/m³**. The original analytical sequence (**S6G1321**) included the BFB tune, calibration check, laboratory control sample, method blank, and five environmental samples in the correct analytical order.

Table XII-11. Sample-to-QA/QC Traceability Matrix

Sample	Laboratory ID	Sequence	Method Blank	LCS	CCV	Final Status
IA-7	26G0459-01	S6G1321	BG60574-BLK1	BG60574-BS1	S6G1321-CCV1	Complete
IA-8	26G0459-02	S6G1321	BG60574-BLK1	BG60574-BS1	S6G1321-CCV1	Complete
IA-9	26G0459-03	S6G1321	BG60574-BLK1	BG60574-BS1	S6G1321-CCV1	Complete
IA-9 (RE1)	26G0459-03RE1	S6G1401	BG60588-BLK1	BG60588-BS1	S6G1401-CCV1	Complete
IA-10	26G0459-04	S6G1321	BG60574-BLK1	BG60574-BS1	S6G1321-CCV1	Complete
OA-2	26G0459-05	S6G1321	BG60574-BLK1	BG60574-BS1	S6G1321-CCV1	Complete

M. Analytical Results Completeness Assessment

The completeness review confirms that the laboratory analytical package contains all documentation required to support independent technical validation of the environmental results. Analytical reports, reporting limits, quality control documentation, calibration records, analytical sequence summaries, instrument performance verification, method blanks, laboratory control samples, internal standard evaluations, and case narrative documentation were present within the Analytical Services Package.

The laboratory reanalysis performed for Sample IA-9 was appropriately incorporated into the analytical package and provides the final reported Acetone concentration for that sample. No missing analytical reports or incomplete reporting elements were identified during the review.

Table XII-12. Analytical Results Completeness Assessment

Evaluation Item	Assessment
Environmental Sample Reports	Complete
Reporting Limits	Complete
Laboratory Qualifiers	Complete
Analytical Sequences	Complete
Instrument Performance	Complete
Initial Calibration	Complete
Initial Calibration Verification	Complete
Continuing Calibration Verification	Complete
Internal Standard Documentation	Complete
Method Blank Documentation	Complete
Laboratory Control Samples	Complete
Laboratory Reanalysis	Complete
Overall Analytical Documentation	Complete

N. Independent Validator Assessment

The environmental analytical results reported for SDG **26G0459** were independently evaluated using the cumulative findings developed throughout Forms I through XI. Each reported VOC concentration was reviewed in conjunction with the supporting calibration documentation, laboratory quality control samples, instrument performance verification, analytical sequence records, method blank performance, internal standard evaluations, and laboratory reporting qualifiers.

The analytical review confirms that the environmental data are internally consistent and supported by complete laboratory documentation. The analytical sequence demonstrates appropriate quality control bracketing of the environmental samples, while the calibration and quality control evaluations confirm acceptable analytical performance for the majority of target compounds.

Compound-specific analytical observations identified during the validation process were limited primarily to **Propylene**, **Vinyl Acetate**, and **Ethyl Acetate**, with additional review of **1,2-Dichlorotetrafluoroethane** and the laboratory reporting convention applied to **p- & m-Xylenes**. These observations do not indicate analytical failure but represent compound-specific limitations requiring independent qualification.

The laboratory reanalysis of Sample IA-9 appropriately resolved the omission of Acetone from the original analytical report. The reported concentration of **120 µg/m³** has therefore been accepted as the validated analytical result for Acetone in Sample IA-9.

No evidence was identified indicating systematic analytical bias, widespread laboratory contamination, sample misidentification, analytical sequence deficiencies, or quality control failures that would compromise the usability of the analytical dataset.

O. Validation Findings

- Environmental sample identification and laboratory documentation were complete.
- Sample traceability was verified from laboratory receipt through final reporting.
- Reporting limits, analytical methods, and laboratory qualifiers were consistently applied.
- The laboratory reanalysis of IA-9 appropriately supplemented the original analytical report and provided the validated Acetone concentration.
- The majority of analytical results are technically acceptable without additional qualification.
- Analytical limitations are limited to a small number of compound-specific QA/QC observations previously identified during calibration and laboratory control sample evaluations.
- No evidence of laboratory contamination or analytical sequence deficiencies affecting the environmental data was identified.

P. Data Impact Assessment

The environmental analytical dataset is considered technically valid and suitable for its intended use following application of the independent compound-specific qualifications presented in **Form XIII**. The analytical observations identified during validation are limited to specific compounds and do not adversely affect the integrity or usability of the dataset as a whole.

The analytical package demonstrates complete traceability, acceptable analytical documentation, and sufficient quality assurance support to permit independent validation of the reported environmental VOC concentrations.

Q. Validation Decision

Table XII-13. Environmental Result Validation Decision

Evaluation Item	**Decision**
Environmental Sample Documentation	Acceptable
Sample Identification	Verified
Sample Traceability	Complete
Analytical Reporting	Complete
Laboratory QA/QC Support	Acceptable
Calibration Support	Acceptable with compound-specific observations
Independent Qualification Required	Yes (Compound-Specific)
Dataset Rejection Required	No
Overall Environmental Data Status	**Validated for Technical Use**

R. Form XII Conclusion

The independent review confirms that the environmental analytical results reported for Sample Delivery Group (SDG) **26G0459** are supported by complete laboratory documentation and an acceptable quality assurance program. The environmental samples were analyzed using EPA Method TO-15 under appropriate laboratory quality control conditions, and the analytical sequence, calibration verification, instrument performance, internal standards, method blanks, and laboratory control samples collectively support the validity of the reported analytical results.

The review identified a limited number of analyte-specific observations associated with calibration verification and laboratory control sample performance. These observations do not compromise the overall integrity of the analytical dataset but warrant compound-specific qualification based on the weight of evidence developed

throughout the validation process. The environmental result review additionally identified 23 detected concentrations reported between their applicable MDLs and RLs; these results were carried forward to Form XIII for independent estimation qualification

Accordingly, the environmental analytical dataset is considered **technically valid and usable for its intended purpose**, subject to the independent qualifier assignments presented in **Form XIII – Independent Data Qualification Summary**. The subsequent form integrates all QA/QC findings and presents the final validator qualifiers for each affected analyte and environmental sample.

FORM XIII: INDEPENDENT DATA QUALIFICATION SUMMARY

A. Purpose

The purpose of this Independent Validation Worksheet is to integrate the analytical quality assurance and quality control findings developed throughout **Forms I through XII** and assign the final independent validator qualifiers to the environmental analytical results reported within **Sample Delivery Group (SDG) 26G0459**.

This form represents the final result-specific data qualification step of the validation process. The preceding forms separately evaluated sample receipt and custody, holding times, the Laboratory Case Narrative, instrument performance, Initial Calibration, Initial Calibration Verification / Second-Source Verification, Continuing Calibration Verification, Internal Standard performance, Method Blanks, Laboratory Control Samples / Blank Spikes, analytical sequence integrity, and environmental sample reporting.

Form XIII integrates those findings with the **MDL/RL relationships documented during environmental sample result validation** to determine whether any reported result requires an independent validator qualifier.

The qualification assessment was performed using a **weight-of-evidence approach**. Laboratory qualifiers, CLP flags, QA/QC exceedances, environmental detection status, MDL/RL relationships, calibration bias direction, recovery performance, and the relationship between each affected analyte and its associated analytical batch were considered collectively.

The purpose of this process is solely to determine the technical reliability and usability of the laboratory-generated analytical data. It does not constitute environmental, exposure, risk-based, or regulatory interpretation of the reported concentrations.

2. Basis for Independent Qualification

Independent qualification was based on the cumulative findings of Forms I through XII and the environmental analytical result review.

Table XIII-1. QA/QC Elements Used for Independent Qualification

QA/QC Element	Validation Form	Final Validation Outcome	Impact on Qualification
Sample Receipt, Preservation, and Chain-of-Custody	Form I	Acceptable; traceability complete	None
Holding Time	Form II	Within applicable method requirements	None
Laboratory Case Narrative	Form III	Complete and consistent with supporting ASP records	None independently
Instrument Performance / BFB Tune	Form IV	Acceptable	None
Initial Calibration (ICAL)	Form V	Acceptable overall	No direct qualification; supporting evidence considered
Initial Calibration Verification / Second Source (ICV/SCV)	Form VI	Acceptable with compound-specific exceedances	Compound-specific
Continuing Calibration Verification (CCV)	Form VII	Acceptable overall with selected compound-specific exceedances	Compound-specific

Internal Standard Performance	Form VIII	Acceptable; no area or RT exceedances	None
Method Blank	Form IX	No significant laboratory contamination affecting environmental results	None
Laboratory Control Sample / Blank Spike	Form X	Acceptable overall with low recovery for selected analytes	Compound-specific
Analytical Sequence	Form XI	Complete and traceable	None
Environmental Sample Result Validation	Form XII	Complete; laboratory qualifiers, CLP flags, MDL/RL relationships, and affected environmental results identified	Result-specific final qualification required

The environmental analytical review confirmed that five primary environmental samples—**IA-7, IA-8, IA-9, IA-10, and OA-2**—were analyzed by EPA Method TO-15, with a separate laboratory reanalysis **26G0459-03RE1** for Acetone in IA-9.

Form XII also identified **23 detected environmental results reported at concentrations greater than or equal to their applicable MDLs but below their corresponding RLs**. These results were carried forward into Form XIII for final qualification.

3. Qualification Conventions

Independent validator qualifiers used in this form are defined below.

Table XIII-2. Independent Validator Qualifiers

Qualifier	Meaning	Application
None	Result accepted without additional independent qualification	QA/QC findings do not materially affect result usability
J	Estimated detected concentration	Analyte identification is considered valid, but quantitative uncertainty is present, including detections between the applicable MDL and RL and detections affected by applicable QA/QC deficiencies
UJ	Estimated non-detect	Analyte was not detected, but uncertainty affects confidence in analytical sensitivity, detection capability, or the reported limit
R	Rejected result	Analytical deficiency is sufficiently severe that the result is not considered technically usable

A distinction was maintained between **laboratory qualifiers**, **CLP flags**, and **independent validator qualifiers**. In the ASP, designations such as **TO-CCV, TO-LCS-L, and TO-MPX** occur in the laboratory qualifier field, whereas **U** and **D** are presented separately in the CLP Flag field. These categories were not treated interchangeably during independent validation.

4. Environmental Results Carried Forward for Qualification

Two categories of environmental analytical results required final qualification review:

1. results associated with laboratory QA/QC conditions identified during Forms VI, VII, X, and XII; and
2. detected results reported between the applicable **MDL and RL** identified during Form XII.

The environmental result review identified the following laboratory qualifier patterns requiring consideration:

- **Ethyl Acetate:** TO-CCV;
- **Propylene:** TO-CCV and TO-LCS-L;
- **Vinyl Acetate:** TO-LCS-L; and
- **p- & m-Xylenes:** TO-MPX.

Ethyl Acetate was detected in all five primary environmental samples. Propylene was not detected in the four indoor samples but was detected in OA-2 at **0.76 µg/m³**. Vinyl Acetate was not detected in any of the five primary samples. p- & m-Xylenes were detected in all five primary samples.

Table XIII-3. Environmental Results Directly Associated with Laboratory QC Qualifiers

Analyte	IA-7	IA-8	IA-9	IA-10	OA-2	Laboratory Qualifier
Ethyl Acetate	1.4	1.2	2.7	2.6	1.3	TO-CCV
Propylene	ND	ND	ND	ND	0.76	TO-CCV; TO-LCS-L
Vinyl Acetate	ND	ND	ND	ND	ND	TO-LCS-L
p- & m-Xylenes	4.6	4.9	31	71	1.4	TO-MPX

Units: µg/m³. **ND:** Laboratory-reported non-detect.

In addition to these laboratory-QC-associated results, Form XII identified **23 detected results between the applicable MDL and RL**. Such results remain analytically detected but have increased quantitative uncertainty because their concentrations are below the laboratory reporting limit. These results therefore require **J qualification**. The five Ethyl Acetate detections are included within these 23 MDL–RL detections. They are therefore **not counted again** when calculating the total number of unique J-qualified results.

5. Summary of Compound-Specific QA/QC Observations

Table XIII-4. Compound-Specific QA/QC Findings Requiring Final Assessment

Analyte	QA/QC Observation	Environmental Status	Qualification Question
Propylene	LCS recovery 62.4%; CCV deviations −41.1% and −35.3%	ND in IA-7, IA-8, IA-9, IA-10; 0.76 µg/m³ in OA-2	Whether low recovery / low-bias calibration uncertainty affects detected and non-detected results
Vinyl Acetate	LCS recovery 57.0%; ICV +81.8%; CCV +51.3% and −50.4%	ND in all five primary samples	Whether combined recovery and calibration variability reduces confidence in non-detects
Ethyl Acetate	ICV −36.1%; CCV −41.8%; LCS recovery acceptable at 78.4%	Detected in all five primary samples	Whether calibration bias warrants estimation of detected concentrations
1,2-Dichlorotetrafluoroethane	CCV-2 +35.0%	Reported as non-detect in applicable primary environmental results	Whether high-bias CCV affects non-detect usability
p- & m-Xylenes	Laboratory qualifier TO-MPX	Detected in all five primary samples	Whether flag represents an analytical deficiency or reporting convention

6. Compound-Specific Independent Qualification Assessment

6.1 Propylene

Propylene was associated with both **TO-CCV** and **TO-LCS-L** in the laboratory result sheets. The LCS recovery was **62.4%**, and the relevant CCV deviations included **−41.1%** and **−35.3%**. These results indicate a predominantly low-bias condition, demonstrating the potential to under-recover or under-report Propylene.

Propylene was reported as **ND** in IA-7, IA-8, IA-9, and IA-10 and detected at **0.76 µg/m³** in OA-2.

Because low recovery and negative calibration drift can reduce analytical sensitivity, the four indoor-sample nondetects have increased uncertainty in effective detection capability. Accordingly, the four nondetects are qualified **UJ**.

For OA-2, Propylene was positively identified. The combined LCS and CCV findings affect quantitative accuracy rather than analyte identification. The result remains technically usable but is considered estimated. A **J** qualifier is warranted.

Table XIII-5. Propylene Qualification Assessment

Sample	Laboratory Result	Laboratory Qualifier	Independent Qualifier	Technical Basis
IA-7	ND	TO-CCV; TO-LCS-L	**UJ**	Low LCS recovery and negative CCV bias reduce confidence in nondetect
IA-8	ND	TO-CCV; TO-LCS-L	**UJ**	Same analytical condition
IA-9	ND	TO-CCV; TO-LCS-L	**UJ**	Same analytical condition
IA-10	ND	TO-CCV; TO-LCS-L	**UJ**	Same analytical condition
OA-2	0.76 µg/m³	TO-CCV; TO-LCS-L	**J**	Positive identification retained; quantitative uncertainty

6.2 Vinyl Acetate

Vinyl Acetate was associated with **TO-LCS-L**. LCS recovery was **57.0%**, demonstrating low method recovery. Calibration verification observations included an ICV deviation of **+81.8%** and CCV observations of **+51.3%** and **−50.4%**.

Although calibration bias was not consistently one-sided, the combination of low LCS recovery and substantial calibration variability demonstrates reduced analytical reliability.

Vinyl Acetate was reported as **ND in all five primary environmental samples**. Because low LCS recovery establishes the potential for reduced analyte recovery, confidence in the nondetect reporting capability is reduced. Accordingly, all five Vinyl Acetate nondetects are qualified **UJ**.

Table XIII-6. Vinyl Acetate Qualification Assessment

Sample	Laboratory Result	Laboratory Qualifier	Independent Qualifier	Technical Basis
IA-7	ND	TO-LCS-L	**UJ**	Low LCS recovery and calibration variability reduce confidence in detection capability
IA-8	ND	TO-LCS-L	**UJ**	Same analytical condition
IA-9	ND	TO-LCS-L	**UJ**	Same analytical condition
IA-10	ND	TO-LCS-L	**UJ**	Same analytical condition
OA-2	ND	TO-LCS-L	**UJ**	Same analytical condition

6.3 Ethyl Acetate

Ethyl Acetate was consistently reported with laboratory qualifier **TO-CCV**. The compound exhibited an ICV deviation of **−36.1%** and a CCV deviation of **−41.8%**, while LCS recovery remained acceptable at **78.4%**.

Ethyl Acetate was detected in all five primary environmental samples at concentrations ranging from **1.2 to 2.7 µg/m³**.

The acceptable LCS recovery supports analyte recovery and identification, while the calibration verification findings demonstrate quantitative uncertainty and potential low bias.

In addition, all five Ethyl Acetate concentrations fall within the group of **23 detections between the MDL and RL** identified during Form XII.

Accordingly, each Ethyl Acetate detection is qualified **J**. These five results are counted **once only** in the final qualification totals.

Table XIII-7. Ethyl Acetate Qualification Assessment

Sample	Result (µg/m³)	Laboratory Qualifier	Independent Qualifier	Technical Basis
IA-7	1.4	TO-CCV	**J**	Below-RL detection and calibration verification uncertainty
IA-8	1.2	TO-CCV	**J**	Same analytical condition
IA-9	2.7	TO-CCV	**J**	Same analytical condition
IA-10	2.6	TO-CCV	**J**	Same analytical condition
OA-2	1.3	TO-CCV	**J**	Same analytical condition

6.4 1,2-Dichlorotetrafluoroethane

A CCV observation of **+35.0%** was identified for 1,2-Dichlorotetrafluoroethane. This represents a high-bias calibration condition.

For an analyte reported as a nondetect, a high analytical bias does not ordinarily establish a false-negative concern because the bias direction would tend to increase rather than suppress analytical response.

Accordingly, the available QA/QC information does not establish a basis for independently qualifying the applicable nondetected environmental results.

The separate IA-9 reanalysis **26G0459-03RE1** reported Acetone only and therefore does not constitute an additional result for 1,2-Dichlorotetrafluoroethane.

Table XIII-8. 1,2-Dichlorotetrafluoroethane Qualification Assessment

Analytical Condition	Assessment
CCV Observation	+35.0% high bias
Primary Environmental Result Status	Nondetect
IA-9RE1	Not applicable; RE1 reports Acetone only
Potential False-Negative Concern	Not indicated by high-bias condition
Independent Qualifier	**None**

6.5 p- & m-Xylenes

p- & m-Xylenes were reported with laboratory qualifier **TO-MPX** and detected in all five primary samples at concentrations ranging from **1.4 to 71 µg/m³**.

The TO-MPX designation was evaluated as a laboratory reporting convention rather than evidence of demonstrated calibration, recovery, contamination, or instrument-performance failure. Accordingly, **no additional independent validator qualifier is assigned on the basis of TO-MPX**.

Table XIII-9. p- & m-Xylenes Qualification Assessment

Sample	Result (µg/m³)	Laboratory Qualifier	Independent Qualifier
IA-7	4.6	TO-MPX	None
IA-8	4.9	TO-MPX	None
IA-9	31	TO-MPX	None
IA-10	71	TO-MPX	None
OA-2	1.4	TO-MPX	None

6.6 Detected Results Between the MDL and RL

Form XII identified **23 environmental detections reported at concentrations greater than or equal to the applicable MDL but below the corresponding RL**.

These results represent analytically detected compounds. However, because their reported concentrations are below the laboratory-established RL, the quantitative values carry increased uncertainty.

Accordingly, the 23 detections are retained as valid detections but assigned an independent **J** qualifier.

Table XIII-10. Qualification of Detected Results Between MDL and RL

Evaluation Item	Independent Assessment
Number of detected results between MDL and RL	**23**
Detection status	Positive detections
Relationship to MDL	Result ≥ applicable MDL
Relationship to RL	Result < applicable RL
Identification validity	Retained
Quantitative certainty	Estimated
Independent qualifier	**J**
Results rejected	None

The complete result-specific MDL/RL relationships are documented in **Form XII** and constitute the source record for these 23 qualification decisions.

The **five Ethyl Acetate detections** are included within this group of 23 results. They also have independent calibration-related evidence supporting estimation, as discussed in Section 6.3, but are counted only once.

7. IA-9 Acetone Reanalysis

The laboratory reanalysis **26G0459-03RE1** is associated with client sample IA-9. The primary IA-9 result sheet did not present an Acetone result.

The separate RE1 result reports:

- Acetone = **120 µg/m³**
- RL = **21 µg/m³**
- MDL = **2.2 µg/m³**
- Dilution = **1.763**
- CLP Flag = **D**

The DUSR does not infer or reconstruct an Acetone concentration from the original IA-9 chromatographic record. The **120 µg/m³** result reported on 26G0459-03RE1 is retained as the laboratory-reported Acetone result for IA-9.

No independent QA/QC condition evaluated in Form XIII provides a basis for assigning an additional J, UJ, or R qualifier. The laboratory **D** designation remains a CLP flag and is not reclassified as an independent validator qualifier. This distinction is already established in the working documentation.

Table XIII-11. IA-9 Acetone Reanalysis Qualification

Parameter	**Validation Result**
Client Sample	IA-9
Laboratory ID	26G0459-03RE1
Analyte	Acetone
Laboratory Result	**120 µg/m³**
RL	21 µg/m³
MDL	2.2 µg/m³
Dilution	1.763
CLP Flag	D
Independent Validator Qualifier	**None**
Final Status	Accepted as reported on RE1 analytical form

8. Final Independent Data Qualification Matrix

The final qualification matrix integrates the MDL/RL evaluation with the compound-specific QA/QC findings.

Table XIII-12. Final Validator Qualification Matrix — Summary

Result Category	Affected Environmental Results	Validator Qualifier	Technical Basis
Detected concentrations between MDL and RL	**23 detections**	**J**	Positive identification retained; concentrations below RL considered quantitatively estimated
Ethyl Acetate	Five primary detections	**J**	Included within the 23 MDL–RL detections; calibration uncertainty provides additional basis for estimation
Propylene — IA-7, IA-8, IA-9, IA-10	Four nondetects	**UJ**	Low LCS recovery and low-bias CCV performance reduce confidence in analytical sensitivity
Propylene — OA-2	0.76 µg/m³ detection	**J**	Positive identification retained; combined CCV/LCS uncertainty affects quantitation
Vinyl Acetate	Five primary nondetects	**UJ**	Low LCS recovery and calibration variability reduce confidence in nondetect capability
1,2-Dichlorotetrafluoroethane	Applicable primary nondetects	**None**	High-bias CCV does not establish false-negative concern
p- & m-Xylenes	Five primary detections	**None based on TO-MPX**	TO-MPX represents laboratory reporting convention; no independent deficiency established
IA-9 Acetone RE1	120 µg/m³	**None**	Laboratory D flag retained; no additional independent QA/QC basis for qualification
Rejected results	None	**R = 0**	No analytical deficiency sufficient to invalidate a result

Important accounting: The five Ethyl Acetate detections are already included among the 23 MDL–RL J-qualified detections and are **not counted separately**. The OA-2 Propylene detection is an additional J-qualified result. Therefore, the final number of **unique J-qualified results is 24**. This accounting is consistent with the final summary already documented in Form XIV.

9. Final Qualification Summary

Table XIII-13. Final Independent Qualification Summary

Independent Qualification	Number of Unique Environmental Results	Interpretation
J	**24**	Valid detected results with quantitative uncertainty
UJ	**9**	Nondetects retained with uncertainty in analytical sensitivity/reporting capability
R	**0**	No analytical results rejected
None	Remaining results	Usable without additional independent qualification

The **24 unique J-qualified results** comprise:

- **23 detected results between the applicable MDL and RL**, including the five Ethyl Acetate detections; and
- **one additional OA-2 Propylene detection (0.76 µg/m³)** affected by combined CCV and low LCS recovery.

The **nine UJ-qualified results** comprise:

- four Propylene nondetects: IA-7, IA-8, IA-9, and IA-10; and
- five Vinyl Acetate nondetects: IA-7, IA-8, IA-9, IA-10, and OA-2.

No analytical results require rejection.

These totals agree with the final dataset summary: **24 J, 9 UJ, and 0 R**.

10. Dataset-Level Impact Assessment

The independent qualification review demonstrates that the identified analytical limitations are **result-specific rather than dataset-wide**.

The following conditions require qualification:

- **23 detected environmental results between their applicable MDLs and RLs** are considered quantitatively estimated and assigned **J**;
- the OA-2 Propylene detection is assigned **J** because of combined CCV and low LCS recovery;
- four Propylene nondetects are assigned **UJ** because low recovery and negative CCV bias reduce confidence in analytical sensitivity; and
- five Vinyl Acetate nondetects are assigned **UJ** because recurring low LCS recovery reduces confidence in analytical sensitivity.

The following observations do **not** require additional independent qualification:

- high-bias CCV performance for **1,2-Dichlorotetrafluoroethane** under the applicable nondetect condition;
- laboratory **TO-MPX** reporting convention for p- & m-Xylenes; and
- the **D** CLP flag associated with the IA-9 Acetone reanalysis.

No evidence was identified of widespread laboratory contamination, Internal Standard instability, holding-time failure, sample traceability failure, analytical sequence failure, or another condition requiring dataset-wide rejection.

11. Independent Validator Assessment

The independent qualification review confirms that the analytical dataset for **SDG 26G0459** is technically defensible following application of the result-specific qualifiers documented above.

The principal sources of analytical uncertainty are:

1. detected concentrations reported between the applicable MDL and RL;
2. calibration performance affecting Ethyl Acetate;
3. combined calibration and LCS performance affecting Propylene; and
4. recurring low LCS recovery affecting Vinyl Acetate.

The largest qualification category consists of the **23 detections between MDL and RL**. These results remain valid detections but are quantitatively estimated.

Five of those 23 results are the Ethyl Acetate detections, for which calibration verification findings provide an additional analytical basis for estimation. They are not counted twice.

The OA-2 Propylene detection constitutes one additional J-qualified result, resulting in **24 unique J-qualified detections**.

The nine UJ-qualified results remain usable as nondetects but have reduced confidence in analytical sensitivity or reporting capability.

No result was determined to be technically unusable.

12. Deficiencies / Exceptions

The following result-specific exceptions were identified:

1. MDL/RL Reporting Condition
Twenty-three detected environmental results were reported between their applicable MDLs and RLs. These results remain valid detections but are quantitatively estimated and are therefore qualified **J**.

2. Propylene
Low LCS recovery and low-bias CCV performance affect quantitative accuracy and analytical sensitivity. Four nondetects are qualified **UJ**, and the OA-2 detection is qualified **J**.

3. Vinyl Acetate
Recurring low LCS recovery, together with calibration variability, reduces confidence in the nondetect reporting capability. Five nondetects are qualified **UJ**.

4. Ethyl Acetate
Calibration verification uncertainty supports J qualification of the five detected results. These results are already included among the 23 MDL–RL J-qualified detections and are not counted separately.

The following observations were reviewed but do not require additional independent qualification:

- high-bias CCV performance for 1,2-Dichlorotetrafluoroethane under the applicable nondetect condition;
- TO-MPX for p- & m-Xylenes; and
- the D CLP flag associated with IA-9 Acetone RE1.

No dataset-wide deficiency or condition requiring rejection was identified.

13. Validation Decision

Table XIII-14. Independent Data Qualification Decision

Evaluation Item	**Final Decision**
QA/QC Information Sufficient for Qualification	**Yes**
Environmental Result Traceability	**Complete**
MDL/RL Relationships Reviewed	**Yes**
Laboratory Qualifiers Reviewed	**Yes**
CLP Flags Distinguished from Laboratory Qualifiers	**Yes**
Result-Specific Independent Qualification Required	**Yes**
J Qualifications Assigned	**24 unique results**
UJ Qualifications Assigned	**9 results**
R Qualifications Assigned	**0 results**
Dataset-Wide Qualification Required	**No**
Dataset Rejection Required	**No**
Final Data Status	**Usable With Qualification**

14. Form XIII Conclusion

The independent data qualification review confirms that the analytical results reported for **SDG 26G0459** are technically usable following application of the result-specific validator qualifiers established in this form.

A total of **24 unique detected results are qualified J**. Of these, **23 are detected concentrations reported between the applicable MDL and RL** and are therefore considered quantitatively estimated. The five Ethyl Acetate detections are included within these 23 results and are additionally supported for J qualification by the calibration verification findings. They are not counted separately.

The remaining J-qualified result is the **OA-2 Propylene detection at 0.76 µg/m³**, for which combined low LCS recovery and low-bias CCV performance introduce quantitative uncertainty.

A total of **nine nondetect results are qualified UJ**, consisting of four Propylene nondetects and five Vinyl Acetate nondetects.

No analytical results are rejected, and no R qualifiers are assigned.

The remaining analytical results require no additional independent qualification based on the QA/QC evidence reviewed. The IA-9 Acetone reanalysis is retained at the laboratory-reported concentration of **120 µg/m³**, without reconstruction of an original concentration and without an additional independent validator qualifier.

Accordingly, the final analytical dataset is classified as "**USABLE WITH QUALIFICATION".** The identified qualifications are limited to discrete analytical results and do not compromise the overall integrity, completeness, or technical usability of the analytical dataset. This determination addresses analytical data quality and usability only and does not constitute environmental, exposure, risk-based, or regulatory interpretation of the reported concentrations.

FORM XIV: FINAL DATA VALIDATION SUMMARY

A. Purpose

The purpose of this Independent Validation Worksheet is to integrate the findings of Forms I through XIII and provide the final technical summary of analytical data quality and usability for **Sample Delivery Group (SDG) 26G0459**.

This form does not introduce new qualification decisions. Rather, it consolidates the results of the completed administrative, analytical, QA/QC, and result-specific validation reviews and presents the final independent data usability classification for the dataset.

The final summary reflects:

- sample receipt and traceability;
- holding-time compliance;
- laboratory Case Narrative review;
- instrument performance;
- Initial Calibration;
- Initial Calibration Verification / Second-Source Verification;
- Continuing Calibration Verification;
- Internal Standard performance;
- Method Blank performance;
- Laboratory Control Sample / Blank Spike performance;
- analytical sequence integrity;
- environmental sample result review;
- MDL/RL reporting relationships; and
- the final independent data qualification decisions documented in Form XIII.

B. Validation Summary

Table XIV-1. Summary of Validation Findings

Validation Element	Final Assessment	Independent Qualification Impact
Sample Receipt / Chain-of-Custody	Acceptable	None
Holding Times	Acceptable	None
Laboratory Case Narrative	Acceptable	None independently
Instrument Performance / BFB Tune	Acceptable	None
Initial Calibration	Acceptable overall	None directly
ICV / Second-Source Verification	Compound-specific observations	Considered in integrated qualification
Continuing Calibration Verification	Compound-specific observations	Result-specific
Internal Standard Performance	Acceptable	None
Method Blank	Low-level Isopropanol below RL only	None
LCS / Blank Spike	Low recovery for Propylene and Vinyl Acetate	Result-specific
Analytical Sequence	Complete and traceable	None
Environmental Sample Results	Complete and reviewable	Qualification applied where warranted
MDL–RL Reporting	23 detections below RL	J
Independent Data Qualification	Completed	24 J; 9 UJ; 0 R

C. Final Independent Qualification Summary

The final independent qualification review identified a limited number of result-specific analytical uncertainties.

The largest qualification category consists of **23 detected results reported between the applicable MDL and RL**. These detections remain analytically valid but are quantitatively estimated and therefore receive **J** qualification.

The five Ethyl Acetate detections are included within these 23 results. Although they also carry TO-CCV and are independently supported for estimation by calibration evidence, they are counted only once.

Propylene requires additional qualification because of combined CCV and recurring low LCS recovery. Four indoor nondetects are qualified **UJ**, while the OA-2 detection at 0.76 µg/m³ is qualified **J**.

Vinyl Acetate was nondetect in all five primary samples and exhibited recurring low LCS recovery. Accordingly, all five Vinyl Acetate nondetects are qualified **UJ**. No analytical result requires rejection.

Table XIV-2. Final Independent Qualification Totals

Independent Qualifier	Number of Unique Results	Interpretation
J	**24**	Valid detections with quantitative uncertainty
UJ	**9**	Nondetects with uncertainty in analytical sensitivity/reporting capability
R	**0**	No results rejected
None	Remaining results	Usable without additional independent qualification

D. Qualification Basis Summary

Table XIV-3. Qualification Basis by Analytical Condition

Qualification Basis	Affected Results	Final Action
Detection between MDL and RL	23 detected results	J
Ethyl Acetate – TO-CCV	Five primary results	J; already included within the 23
Propylene – TO-CCV + TO-LCS-L	IA-7, IA-8, IA-9, IA-10 nondetects	UJ
Propylene – OA-2 detection	0.76 µg/m³	J
Vinyl Acetate – TO-LCS-L	Five primary nondetects	UJ
1,2-Dichlorotetrafluoroethane high-bias CCV	Applicable nondetects	No additional qualification
p- & m-Xylenes – TO-MPX	Five primary samples	No independent qualification
IA-9 Acetone RE1	120 µg/m³	No additional qualification
Rejected results	None	No R

E. Sample-Level Data Usability

All five primary environmental samples contain a mixture of unqualified and qualified analytical results. Therefore, each primary sample is classified overall as **Usable With Qualification**.

The IA-9 Acetone reanalysis is supported by its analytical sequence and QC documentation and requires no additional independent qualifier.

Table XIV-4. Final Data Usability Classification by Sample

Sample	Laboratory ID	Overall Sample Classification	Qualified Results Present	Rejected Results
IA-7	26G0459-01	**Usable With Qualification**	Yes	None
IA-8	26G0459-02	**Usable With Qualification**	Yes	None
IA-9	26G0459-03	**Usable With Qualification**	Yes	None
IA-10	26G0459-04	**Usable With Qualification**	Yes	None
OA-2	26G0459-05	**Usable With Qualification**	Yes	None
IA-9 RE1	26G0459-03RE1	**Usable Without Additional Qualification**	No additional independent qualifier	None

F. Dataset-Level Usability Assessment

The analytical dataset as a whole remains technically usable. The result-specific J and UJ qualifiers identify limited analytical uncertainty associated with:

- detections reported between the MDL and RL;
- calibration performance affecting Ethyl Acetate;
- combined calibration and LCS performance affecting Propylene; and
- recurring low LCS recovery affecting Vinyl Acetate.

These conditions do not indicate systemic failure of the analytical program. The following QA/QC elements were acceptable and support overall dataset usability:

- sample identification and traceability;
- holding-time compliance;
- instrument tuning;
- Internal Standard performance;
- Method Blank performance;
- analytical sequence integrity;
- completeness of laboratory documentation; and
- absence of any condition requiring result rejection.

G. Overall Data Classification

Table XIV-5. Overall Data Usability Determination

Evaluation Item	Final Determination
Administrative Completeness	Acceptable
Sample Traceability	Complete
Holding-Time Compliance	Acceptable
Instrument Performance	Acceptable
Calibration Performance	Acceptable with compound-specific observations
Internal Standard Performance	Acceptable
Method Blank Performance	Acceptable
LCS / Blank Spike Performance	Acceptable with analyte-specific exceptions
Analytical Sequence	Acceptable
Environmental Result Documentation	Complete
Independent Qualification	Completed
J-Qualified Results	**24**

UJ-Qualified Results	**9**
R-Qualified Results	**0**
Overall Dataset Classification	**Usable With Qualification**

H. Independent Validator Assessment

The independent validation demonstrates that the principal data-quality limitations in SDG 26G0459 are **result-specific and analytically traceable**.

The majority of reported analytical results remain usable without additional independent qualification. The J-qualified detections remain valid but are associated with increased quantitative uncertainty. The UJ-qualified nondetects remain usable but reflect reduced confidence in analytical sensitivity for the affected compounds. No evidence of widespread contamination, instrument instability, sample traceability failure, holding-time failure, analytical sequence failure, or systematic laboratory QC breakdown was identified. No result was determined to be technically unusable.

I. Validation Decision

Table XIV-6. Final Data Validation Decision

Evaluation Item	**Decision**
Analytical Package Review	Complete
Independent Qualification Review	Complete
Result-Specific Qualification Required	Yes
Total J Results	**24**
Total UJ Results	**9**
Total R Results	**0**
Dataset-Wide Rejection Required	No
Overall Data Status	**Usable With Qualification**

J. Form XIV Conclusion

The independent validation of **SDG 26G0459** confirms that the laboratory-generated analytical data are technically usable for their intended analytical purpose, subject to the result-specific qualifications documented in Form XIII.

A total of **24 unique detected results are classified J**, including 23 detections reported between the applicable MDL and RL and one additional Propylene detection in OA-2 affected by combined CCV and low-LCS-recovery conditions.

A total of **nine nondetect results are classified UJ**, consisting of four Propylene nondetects and five Vinyl Acetate nondetects.

The five Ethyl Acetate detections are included within the 23 MDL–RL J-qualified results and are not counted separately. No analytical result requires rejection, and **no R qualifiers are assigned**. Accordingly, the final dataset classification is "**USABLE WITH QUALIFICATION".** The identified qualifications are limited to discrete analytical results and do not compromise the overall integrity, completeness, or technical usability of the analytical dataset.

FORM XV: FINAL DATA VALIDATION CERTIFICATION

A. Purpose

The purpose of this validation worksheet is to formally document the completion of the independent third-party validation of the Analytical Services Package (ASP) associated with Sample Delivery Group (SDG) **26G0459**. This certification summarizes the scope of the validation, confirms the completion of all required technical reviews, and records the independent validator's professional opinion regarding the analytical quality and usability of the laboratory data.

This certification is based upon the cumulative findings documented in Forms I through XIV and represents the final quality assurance determination for the analytical package reviewed.

B. Validation Scope Certification

The independent validation included review of all documentation contained within the Analytical Services Package and supporting laboratory records. The validation was conducted in accordance with the project-specific validation requirements, EPA National Functional Guidelines for Organic Data Review, and accepted professional QA/QC validation practices.

Table XV-1. Validation Activities Completed

Validation Activity	Status	Reference Form
Administrative / Sample Receipt / COC	Validated	Form I
Holding Time	Validated	Form II
Laboratory Case Narrative	Validated	Form III
Instrument Performance / BFB Tune	Validated	Form IV
Initial Calibration	Validated	Form V
Initial Calibration Verification	Validated	Form VI
Continuing Calibration Verification	Validated	Form VII
Internal Standard Review	Validated	Form VIII
Method Blank Review	Validated	Form IX
Laboratory Control Sample Review	Validated	Form X
Analytical Sequence Review	Validated	Form XI
Environmental Sample Validation	Validated	Form XII
Independent Data Qualification	Validated	Form XIII
Final Data Validation Summary	Validated	Form XIV

C. Validation Summary

The independent validation confirms that the Analytical Services Package submitted for SDG **26G0459** was complete and contained sufficient documentation to permit comprehensive technical review. Laboratory administrative documentation, analytical records, calibration data, quality control samples, analytical sequence records, and environmental analytical results were reviewed in accordance with established validation procedures.

The analytical review demonstrated acceptable laboratory performance throughout the analytical process. Instrument performance remained satisfactory, calibration requirements were generally achieved, quality control samples supported analytical validity, and no evidence of significant laboratory contamination or systematic analytical deficiencies was identified.

Compound-specific analytical observations were identified for a limited number of analytes and were addressed through application of independent validator qualifiers. These observations do not compromise the overall usability of the analytical dataset.

Table XV-2. Overall Validation Summary

Evaluation Item	Final Assessment
Analytical Package Completeness	Complete
Sample Documentation	Complete
Sample Traceability	Verified
Instrument Performance	Acceptable
Calibration Performance	Acceptable with compound-specific observations
Laboratory Quality Control	Acceptable with analyte-specific exceptions
Blank Contamination	Not Significant
Analytical Reporting	Complete
Independent Qualification	Completed
Overall Data Quality	Acceptable

D. Final Qualification Summary

Table XV-3. Final Validator Qualification Summary

Qualification Category	Number of Results	Application
J – Estimated Detection	**24**	23 detections between MDL and RL, including five Ethyl Acetate results, plus OA-2 Propylene
UJ – Estimated Nondetect	**9**	Four Propylene nondetects and five Vinyl Acetate nondetects
R – Rejected	**0**	None
No Additional Qualification	Remaining results	Accepted as reported

E. Data Usability Certification

Following completion of the independent validation process, the analytical data generated for SDG **26G0459** are considered technically valid for their intended purpose.

The analytical observations identified during the review are limited to result-specific reporting uncertainty and compound-specific quality control observations, all of which have been addressed through independent validator qualification. These observations do not materially affect the interpretation of the analytical dataset as a whole.

No evidence was identified indicating widespread analytical bias, laboratory contamination, sample misidentification, or procedural deficiencies sufficient to invalidate the reported analytical results.

Accordingly, the analytical data are considered technically valid and suitable for their intended analytical use, subject to the result-specific qualifications documented within this report.

F. Independent Validator Certification

I hereby certify that this Data Usability Summary Report represents an independent technical review of the Analytical Services Package submitted for Sample Delivery Group **26G0459**. The review was conducted in accordance with applicable EPA guidance, accepted professional data validation practices, and the quality assurance procedures described within this report.

The conclusions and qualification decisions presented herein represent my independent professional judgment based solely upon the analytical documentation and quality assurance records provided by the analytical laboratory.

Table XV-4. Independent Validation Certification

Item	**Certification**
Project	**152 Graham Avenue, Brooklyn, New York**
Sample Delivery Group	**26G0459**
Analytical Method	**EPA TO-15**
Validation Status	**Completed**
Overall Data Usability	**Validated for Technical Use**
Independent Validator	Dr. Mohammed I. Al-Qinna
Organization	Independent Technical Reviewer

Certification Statement

I certify that this independent validation was performed in accordance with accepted professional data validation practices using the documentation contained within the Analytical Services Package. The analytical data reviewed herein are considered technically valid and suitable for their intended purpose, subject only to the independent qualifications assigned within this report.

FORM XVI: INDEPENDENT VALIDATION CHECKLIST AND REPORT COMPLETION RECORD

A. Purpose

The purpose of this worksheet is to document the completion of the independent validation process for the Analytical Services Package (ASP) associated with Sample Delivery Group (SDG) **26G0459**. This checklist provides a final verification that all required administrative, technical, analytical, and quality assurance reviews have been completed and incorporated into this Data Usability Summary Report (DUSR). This form serves as the final quality assurance record for the independent validation and confirms that the report is complete, internally consistent, and suitable for technical use.

B. Validation Completion Checklist

Table XVI-1. Independent Validation Checklist

Validation Activity	Completed	Reference
Administrative Documentation Review	Yes	Form I
Sample Receipt Review	Yes	Form I
Chain-of-Custody Review	Yes	Form I
Holding Time Review	Yes	Form II
Laboratory Case Narrative Review	Yes	Form III
Instrument Performance (BFB Tune) Review	Yes	Form IV
Initial Calibration Review	Yes	Form V
Initial Calibration Verification Review	Yes	Form VI
Continuing Calibration Verification Review	Yes	Form VII
Internal Standard Review	Yes	Form VIII
Method Blank Review	Yes	Form IX
Laboratory Control Sample / Blank Spike Review	Yes	Form X
Analytical Sequence Review	Yes	Form XI
Environmental Sample Validation	Yes	Form XII
Independent Data Qualification	Yes	Form XIII
Final Data Validation Summary	Yes	Form XIV
Final Validation Certification	Yes	Form XV

C. Data Quality Summary

Table XVI-2. Final Data Quality Summary

Evaluation Item	Final Status
Analytical Package Completeness	Complete
Laboratory Documentation	Complete
Sample Traceability	Verified
Holding Times	Acceptable
Calibration Performance	Acceptable with compound-specific observations
Instrument Performance	Acceptable
Laboratory Quality Control	Acceptable with analyte-specific exceptions
Blank Contamination	Not Significant
Environmental Data Quality	Acceptable
Independent Qualification	Completed
Overall Data Usability	Usable With Qualification

D. Report Completion Verification

Table XVI-3. Report Completion Verification

Item	Status
All analytical records reviewed	Verified
All QA/QC elements evaluated	Verified
All validation forms completed	Verified
Qualification decisions documented	Verified
Validation conclusions completed	Verified
Certification completed	Verified
Report internally reviewed	Verified
Report ready for submission	Verified

E. Independent Validator Statement

The independent validation documented in this Data Usability Summary Report has been completed in accordance with the applicable project requirements, EPA Method TO-15 guidance, accepted laboratory quality assurance practices, and recognized professional procedures for third-party analytical data validation.

The analytical conclusions presented in this report are based exclusively upon the documentation contained within the Analytical Services Package and supporting laboratory records. Independent qualification decisions reflect the cumulative evaluation of all available quality assurance information and represent the professional judgment of the independent validator.

F. Final Report Certification

Table XVI-4. Report Completion Record

Item	Information
Project	152 Graham Avenue, Brooklyn, New York
Client Project No.	240052
Sample Delivery Group	26G0459
Analytical Method	EPA TO-15
Data Validation Report	Completed
Overall Validation Status	**Validated for Technical Use**
Independent Validator	Dr. Mohammed I. Al-Qinna

Final Statement

This Data Usability Summary Report documents the complete independent validation of the Analytical Services Package for Sample Delivery Group **26G0459**. All required validation activities have been completed, appropriate independent qualifications have been assigned where warranted, and the analytical data are considered **technically valid and suitable for their intended use**, subject to the result-specific qualifications documented in this report.

APPENDIX D: Analytical Methods and Laboratory Quality Assurance Summary

D.1 Purpose

This appendix consolidates the analytical methods, laboratory quality assurance (QA), and quality control (QC) information reviewed during the independent validation of Sample Delivery Group (SDG) **26G0459**. Unlike the individual validation worksheets presented in Appendix C, which evaluate each QA/QC element separately, this appendix provides an integrated summary of the laboratory analytical program, demonstrating that all critical analytical quality control components required by EPA Method TO-15 were reviewed and considered during the validation process.

The information presented herein serves as a technical reference linking the analytical methods, calibration procedures, quality control samples, instrument performance evaluations, and laboratory documentation reviewed throughout the validation.

D.2 Analytical Method Summary

Table D-1. Summary of Analytical Methods

Parameter	Description
Analytical Method	EPA Compendium Method TO-15
Analytical Technique	Gas Chromatography / Mass Spectrometry (GC/MS)
Sample Preparation	EPA TO-15 PREP
Matrix	Indoor and Outdoor Ambient Air
Laboratory	ALS Environmental – Queens, New York
Reporting Units	µg/m³
Target Compounds	Volatile Organic Compounds (VOCs)
Sample Delivery Group	SDG 26G0459

D.3 Laboratory Quality Assurance Elements

Table D-2. Laboratory QA/QC Program Reviewed

QA/QC Element	Purpose	Validation Form
Sample Receipt	Verification of sample integrity	Form I
Chain-of-Custody	Sample traceability	Form I
Holding Time	Compliance with EPA requirements	Form II
Laboratory Case Narrative	Documentation of analytical activities	Form III
Instrument Performance (BFB Tune)	Verification of GC/MS performance	Form IV
Initial Calibration (ICAL)	Establish analytical calibration	Form V
Initial Calibration Verification (ICV/SCV)	Independent confirmation of calibration accuracy	Form VI
Continuing Calibration Verification (CCV)	Demonstrate calibration stability	Form VII
Internal Standards	Monitor analytical performance	Form VIII
Method Blank	Evaluate laboratory contamination	Form IX
Laboratory Control Sample (LCS)	Evaluate analytical accuracy	Form X
Analytical Sequence	Confirm sequence integrity	Form XI
Environmental Sample Results	Validate reported analytical results	Form XII
Independent Data Qualification	Apply validator qualifiers	Form XIII
Final Validation Summary	Overall data usability	Form XIV
Independent Validation Certification	Final certification	Form XV

D.4 Instrument Performance Summary

Table D-3. Instrument Performance Evaluation

QA/QC Element	Evaluation	Overall Assessment
Mass Spectrometer Tune (BFB)	Ion abundance criteria evaluated	Acceptable
Instrument Stability	Verified throughout analytical sequence	Acceptable
Instrument Sensitivity	Satisfactory	Acceptable
Instrument Performance	Overall	Acceptable

D.5 Calibration Summary

Table D-4. Calibration Review Summary

Calibration Element	Evaluation	Validation Outcome
Initial Calibration	Multi-point calibration reviewed	Acceptable
Initial Calibration Verification	Second-source standard evaluated	Acceptable with minor compound-specific observations
Continuing Calibration Verification	Daily calibration stability evaluated	Acceptable with compound-specific exceedances
Overall Calibration Performance	Integrated assessment	Acceptable

D.6 Internal Standard Summary

Table D-5. Internal Standard Performance

Evaluation Item	Result
Internal Standards Present	Yes
Acceptance Criteria	Reviewed
Area Performance	Acceptable
Retention Time Performance	Acceptable
Qualification Required	No

D.7 Blank Evaluation Summary

Table D-6. Blank Review Summary

Blank Type	Evaluation	Validation Decision
Method Blank	Reviewed	No significant contamination identified
Field Blank	Not Submitted	Not Applicable
Trip Blank	Not Submitted	Not Applicable
Laboratory Contamination	Evaluated	None requiring qualification

D.8 Laboratory Control Sample Summary

Table D-7. Laboratory Control Sample Summary

Evaluation Item	Assessment
Laboratory Control Samples Reviewed	Yes
Recovery Acceptance	Generally acceptable
Low Recovery Compounds	Compound-specific observations documented
Qualification Required	Yes (Selected Compounds Only)

D.9 Environmental Data Summary

Table D-8. Environmental Data Quality Summary

Evaluation Item	Assessment
Environmental Samples Reviewed	5
Laboratory Reanalysis Reviewed	1
Environmental Results	Complete
Laboratory Reporting	Complete
Analytical Traceability	Verified
Independent Validation	Completed

D.10 Overall Laboratory QA/QC Assessment

Table D-9. Integrated QA/QC Summary

QA/QC Component	Final Assessment
Sample Handling	Acceptable
Sample Traceability	Complete
Holding Times	Compliant
Instrument Performance	Acceptable
Calibration	Acceptable with compound-specific observations
Internal Standards	Acceptable
Blank Performance	Acceptable
Laboratory Control Samples	Acceptable with limited observations
Analytical Sequence	Acceptable
Environmental Results	Validated
Independent Qualification	Applied where necessary
Overall Laboratory QA Program	**Acceptable**

D.11 Appendix D Conclusion

The laboratory quality assurance program implemented for Sample Delivery Group **26G0459** satisfied the principal analytical quality control requirements of EPA Method TO-15. Independent evaluation confirmed that the laboratory maintained acceptable analytical performance throughout the analytical process. Minor compound-specific quality control observations were identified during calibration verification and laboratory control sample review; however, these observations were appropriately addressed through the independent qualification process and did not compromise the overall usability of the analytical dataset.

The integrated QA/QC information summarized in this appendix supports the conclusions presented throughout the validation worksheets and confirms that the analytical data are suitable for technical interpretation following application of the independent validator qualifications documented in this report.

APPENDIX E: SAMPLE INVENTORY AND ANALYTICAL BATCH SUMMARY

E.1 Purpose

This appendix consolidates the environmental sample inventory, laboratory analytical batches, analytical sequences, quality control associations, and laboratory chronology reviewed during the independent validation of Sample Delivery Group (SDG) **26G0459**. The objective of this appendix is to provide a single reference documenting the relationship between environmental samples, laboratory identifiers, analytical batches, analytical sequences, and associated quality control records.

The appendix complements the detailed validation worksheets by presenting the complete analytical organization of the laboratory data and demonstrating that each environmental sample was appropriately associated with the required laboratory quality assurance documentation.

E.2 Environmental Sample Inventory

Table E-1. Environmental Sample Inventory

Laboratory Sample ID	Client Sample ID	Matrix	Sample Type	Collection Date	Analysis Date	Validation Status
26G0459-01	IA-7	Indoor Ambient Air	Environmental	08 Jul 2026	10 Jul 2026	Reviewed
26G0459-02	IA-8	Indoor Ambient Air	Environmental	08 Jul 2026	10 Jul 2026	Reviewed
26G0459-03	IA-9	Indoor Ambient Air	Environmental	08 Jul 2026	10 Jul 2026	Reviewed
26G0459-03RE1	IA-9 (Reanalysis)	Indoor Ambient Air	Laboratory Reanalysis	08 Jul 2026	13 Jul 2026	Reviewed
26G0459-04	IA-10	Indoor Ambient Air	Environmental	08 Jul 2026	10 Jul 2026	Reviewed
26G0459-05	OA-2	Outdoor Ambient Air	Environmental	08 Jul 2026	10 Jul 2026	Reviewed

E.3 Sample Category Summary

Table E-2. Sample Category Summary

Sample Category	Number of Samples
Indoor Ambient Air Samples	4
Outdoor Ambient Air Samples	1
Laboratory Reanalysis	1
Total Laboratory Analyses	**6**

E.4 Analytical Batch Summary

Two analytical batches were reviewed during the validation. Batch **BG60574** included the original environmental analyses, whereas Batch **BG60588** consisted solely of the supplemental laboratory reanalysis performed for Sample IA-9 (26G0459-03RE1).

Table E-3. Analytical Batch Summary

Laboratory Batch	Samples Included	Analytical Method	QA/QC Elements Reviewed
BG60574	26G0459-01 through 26G0459-05	EPA TO-15	Method Blank, LCS, CCV, Internal Standards, Instrument Tune
BG60588	26G0459-03RE1	EPA TO-15	Method Blank, LCS, CCV, Internal Standards

E.5 Analytical Sequence Summary

Table E-4. Analytical Sequence Summary

Analytical Sequence	Samples	Analysis Date	Status
S6G1321	IA-7, IA-8, IA-9, IA-10, OA-2	10 Jul 2026	Reviewed
S6G1401	IA-9 (Reanalysis)	13 Jul 2026	Reviewed

E.6 Laboratory Quality Control Association

Each analytical batch contained the quality control samples required under EPA Method TO-15. The independent validation confirmed that every environmental sample was associated with the appropriate method blank, laboratory control sample, calibration verification, and internal standard documentation.

Table E-5. Quality Control Association by Analytical Batch

Batch	Method Blank	Laboratory Control Sample	CCV	Internal Standards	Validation Status
BG60574	Included	Included	Included	Included	Complete
BG60588	Included	Included	Included	Included	Complete

E.7 Sample-to-QA/QC Traceability Matrix

Table E-6. Sample Traceability Summary

Environmental Sample	Laboratory Batch	Analytical Sequence	QA/QC Documentation	Traceability
IA-7	BG60574	S6G1321	Complete	Verified
IA-8	BG60574	S6G1321	Complete	Verified
IA-9	BG60574	S6G1321	Complete	Verified
IA-9 (RE1)	BG60588	S6G1401	Complete	Verified
IA-10	BG60574	S6G1321	Complete	Verified
OA-2	BG60574	S6G1321	Complete	Verified

E.8 Laboratory Chronology

Table E-7. Sample Processing Chronology

Activity	Date	Status
Sample Collection	08 Jul 2026	Completed
Laboratory Receipt	09 Jul 2026	Completed
Original Laboratory Analysis	10 Jul 2026	Completed
IA-9 Supplemental Reanalysis	13 Jul 2026	Completed
Independent Validation	Completed following ASP review	Completed

E.9 Analytical Deliverables Reviewed

Table E-8. Laboratory Documentation Included in Validation

Laboratory Deliverable	Reviewed	Validation Form
Laboratory Case Narrative	yes	Form III
Sample Receipt Documentation	yes	Form I
Chain-of-Custody Records	yes	Form I
Holding Time Documentation	yes	Form II
Instrument Tune	yes	Form IV
Initial Calibration	yes	Form V
Initial Calibration Verification	yes	Form VI
Continuing Calibration Verification	yes	Form VII
Internal Standards	yes	Form VIII
Method Blank	yes	Form IX
Laboratory Control Sample	yes	Form X
Analytical Sequence	yes	Form XI
Environmental Sample Reports	yes	Form XII
Independent Data Qualification	yes	Form XIII

E.10 Analytical Completeness Assessment

Table E-9. Completeness Assessment

Evaluation Item	Assessment
Environmental Samples Received	Complete
Laboratory Analyses Performed	Complete
Required QA/QC Samples	Complete
Analytical Batches	Complete
Calibration Records	Complete
Quality Control Documentation	Complete
Environmental Reporting	Complete
Independent Validation	Complete

E.11 Appendix E Conclusion

The analytical batch review confirms that all environmental samples included within Sample Delivery Group **26G0459** were appropriately assigned to laboratory analytical batches and associated with the required quality assurance and quality control documentation. Complete traceability was maintained between field sample identifiers, laboratory sample numbers, analytical sequences, calibration records, quality control samples, and analytical reports.

The analytical inventory presented in this appendix demonstrates that the laboratory generated a complete analytical record for each environmental sample, providing the necessary documentation to support the independent validation and data qualification decisions presented throughout this report.

APPENDIX F: ANALYTICAL SERVICES PACKAGE (ASP) DOCUMENT REVIEW INDEX

F.1 Purpose

This appendix provides a comprehensive index of the Analytical Services Package (ASP) documentation reviewed during the independent validation of Sample Delivery Group (SDG) **26G0459**. The purpose of this appendix is to document the analytical records examined, demonstrate the completeness of the independent review, and establish traceability between the laboratory documentation and the validation worksheets presented in this report.

The document review index also serves as an audit trail showing that all major analytical, calibration, quality assurance, and reporting records required to support EPA Method TO-15 laboratory analyses were independently evaluated prior to determining overall data usability.

F.2 Analytical Services Package Overview

Table F-1. Analytical Services Package Summary

Item	Description
Laboratory	ALS Environmental – Queens, New York
Analytical Method	EPA Compendium Method TO-15
Matrix	Indoor and Outdoor Ambient Air
Sample Delivery Group	SDG 26G0459
Number of Environmental Samples	5
Laboratory Reanalysis	1
Total Analytical Reports Reviewed	6
Independent Validation Status	Complete

F.3 Administrative Documentation Reviewed

Table F-2. Administrative Records Reviewed

ASP Documentation	Purpose	Validation Form	Review Status
Laboratory Case Narrative	Laboratory analytical summary	Form III	Reviewed
Sample Receipt Documentation	Verify sample condition	Form I	Reviewed
Chain-of-Custody Records	Verify sample traceability	Form I	Reviewed
Sample Login Records	Verify laboratory receipt	Form I	Reviewed
Analytical Report Index	Confirm report completeness	Form XII	Reviewed

F.4 Sample Documentation Reviewed

Table F-3. Sample Documentation

Document	Purpose	Validation Form	Status
Environmental Sample Reports	Analytical results	Form XII	Reviewed
Reporting Limits	Reporting evaluation	Form XII	Reviewed
Method Detection Limits	Analytical sensitivity	Form XII	Reviewed
Laboratory Qualifiers	Data qualification	Form XIII	Reviewed
Reanalysis Report (IA-9 RE1)	Supplemental analytical report	Form XII	Reviewed

F.5 Instrument Performance Documentation

Table F-4. Instrument Performance Records

ASP Record	Purpose	Validation Form	Status
Bromofluorobenzene (BFB) Tune	Verify GC/MS performance	Form IV	Reviewed
Instrument Performance Criteria	EPA TO-15 compliance	Form IV	Reviewed
Instrument Tune Summary	Instrument acceptance	Form IV	Reviewed

F.6 Calibration Documentation Reviewed

Table F-5. Calibration Records

Calibration Record	Validation Form	Review Status
Initial Calibration	Form V	Reviewed
Initial Calibration Summary	Form V	Reviewed
Relative Response Factors	Form V	Reviewed
Calibration Acceptance Criteria	Form V	Reviewed
Initial Calibration Verification (Second Source)	Form VI	Reviewed
Continuing Calibration Verification	Form VII	Reviewed

F.7 Internal Standard Documentation

Table F-6. Internal Standard Records

Record	Purpose	Validation Form	Status
Internal Standard Area Summary	Instrument performance	Form VIII	Reviewed
Internal Standard Retention Times	Instrument stability	Form VIII	Reviewed
Internal Standard Acceptance	EPA TO-15 compliance	Form VIII	Reviewed

F.8 Laboratory Quality Control Documentation

Table F-7. Quality Control Records

QA/QC Documentation	Validation Form	Review Status
Method Blank	Form IX	Reviewed
Laboratory Control Sample	Form X	Reviewed
Blank Spike Summary	Form X	Reviewed
QC Acceptance Limits	Form X	Reviewed

F.9 Analytical Sequence Documentation

Table F-8. Analytical Sequence Records

Record	Purpose	Validation Form	Status
Sequence S6G1321	Original analytical batch	Form XI	Reviewed
Sequence S6G1401	IA-9 Reanalysis	Form XI	Reviewed
Analytical Batch Documentation	Batch integrity	Form XI	Reviewed

F.10 Environmental Analytical Documentation

Table F-9. Environmental Data Records

Documentation	Validation Form	Status
Environmental Analytical Reports	Form XII	Reviewed
Target Compound Results	Form XII	Reviewed
Laboratory Flags	Form XIII	Reviewed
Independent Qualification Summary	Form XIII	Reviewed
Final Validation Summary	Form XIV	Reviewed
Final Validation Certification	Form XV	Reviewed

F.11 Cross-Reference Between ASP and Validation Forms

Table F-10. ASP Cross-Reference Matrix

ASP Section	Validation Worksheet	Review Outcome
Administrative Documentation	Form I	Acceptable
Sample Receipt	Form I	Acceptable
Holding Time	Form II	Acceptable
Case Narrative	Form III	Acceptable
Instrument Tune	Form IV	Acceptable
Initial Calibration	Form V	Acceptable
Initial Calibration Verification	Form VI	Acceptable with observations
Continuing Calibration Verification	Form VII	Acceptable with observations
Internal Standards	Form VIII	Acceptable
Method Blank	Form IX	Acceptable
Laboratory Control Sample	Form X	Acceptable with observations
Analytical Sequence	Form XI	Acceptable
Environmental Results	Form XII	Acceptable with qualification
Independent Qualification	Form XIII	Completed
Final Validation Summary	Form XIV	Completed
Certification	Form XV	Completed

F.12 Completeness of ASP Review

Table F-11. ASP Review Completion Checklist

Review Element	Status
Administrative Documentation	Verified
Sample Documentation	Verified
Calibration Records	Verified
Instrument Performance Records	Verified
Internal Standards	Verified
Blank Records	Verified
Laboratory Control Samples	Verified
Analytical Sequences	Verified
Environmental Sample Reports	Verified
Independent Qualification	Verified
Final Validation	Verified

F.13 Appendix F Conclusion

The document review confirms that the independent validation incorporated all major components of the Analytical Services Package associated with **Sample Delivery Group (SDG) 26G0459**. Administrative records, analytical reports, calibration documentation, instrument performance records, quality control samples, analytical sequences, and laboratory reporting were comprehensively reviewed and cross-referenced with the validation worksheets presented in this report.

The document index presented in this appendix provides a complete audit trail demonstrating that the independent validation was performed using the full laboratory analytical record and that the conclusions reached throughout the Data Usability Summary Report are fully supported by the documentation contained within the Analytical Services Package.

APPENDIX G: VALIDATION REFERENCES AND PROFESSIONAL STANDARDS

G.1 Purpose

This appendix identifies the technical guidance documents, analytical methods, quality assurance references, regulatory standards, and professional validation practices used during the independent review of the Analytical Services Package (ASP) for **Sample Delivery Group (SDG) 26G0459**.

These references establish the technical basis for the validation criteria applied throughout this Data Usability Summary Report (DUSR) and provide the framework used to evaluate laboratory analytical quality, quality control performance, data usability, and independent data qualification.

Unlike the **References** section, which lists all cited documents, this appendix summarizes the principal standards applied during the validation process and identifies how each standard influenced the independent review.

G.2 Primary Analytical Standards

Table G-1. Primary Analytical Standards

Standard	Purpose	Application in Validation
EPA Compendium Method TO-15	Determination of Volatile Organic Compounds (VOCs) in Air by GC/MS	Primary analytical method governing laboratory analysis
EPA National Functional Guidelines for Organic Data Review	Independent analytical data validation	Basis for QA/QC evaluation and data qualification
EPA QA/G-5	Quality Assurance Project Plans	Reference for QA documentation review
EPA QA/G-8	Data Quality Assessment	Basis for evaluating analytical data usability
ASTM D4840	Chain-of-Custody Procedures	Sample custody verification
Project QA/QC Requirements	Project-specific analytical acceptance criteria	Applied throughout validation

G.3 Validation Criteria Applied

Table G-2. Validation Criteria by QA/QC Element

QA/QC Element	Primary Reference	Validation Objective
Sample Receipt	EPA TO-15	Verify sample condition and documentation
Chain-of-Custody	ASTM D4840	Confirm complete sample traceability
Holding Time	EPA TO-15	Verify analytical holding time compliance
Instrument Performance	EPA TO-15	Evaluate GC/MS tuning performance
Initial Calibration	EPA TO-15	Verify calibration linearity
Initial Calibration Verification	EPA Functional Guidelines	Confirm calibration accuracy
Continuing Calibration Verification	EPA Functional Guidelines	Confirm analytical stability
Internal Standards	EPA TO-15	Monitor instrument performance during analysis
Method Blank	EPA Functional Guidelines	Evaluate laboratory contamination
Laboratory Control Sample	EPA Functional Guidelines	Assess analytical accuracy
Environmental Results	EPA Functional Guidelines	Evaluate data usability
Data Qualification	EPA Functional Guidelines	Assign independent validator qualifiers

G.4 Independent Validator Qualifiers

Table G-3. Independent Validator Qualifiers

Qualifier	Definition	Interpretation
None	Accepted without qualification	Result is technically acceptable as reported
J	Estimated Value	Quantitative uncertainty present; result remains usable
UJ	Estimated Non-Detect	Reporting limit considered estimated
R	Rejected	Result is not technically usable

G.5 Laboratory Reporting Qualifiers

Table G-4. Laboratory Qualifiers Reviewed

Laboratory Qualifier	Description	Independent Validation Action
U	Compound not detected above the reporting limit	Reviewed during environmental data validation
D	Reported value determined from a diluted analysis	Evaluated during result review
TO-ICV	Initial Calibration Verification observation	Reviewed during Form VI
TO-CCV	Continuing Calibration Verification observation	Reviewed during Form VII
TO-LCS-L	Low Laboratory Control Sample recovery	Reviewed during Form X
TO-MPX	Laboratory reporting convention	Evaluated during Form XIII

G.6 Quality Assurance Principles Applied

Throughout the validation process, the following fundamental quality assurance principles were applied:

1. **Completeness** – All required laboratory documentation was reviewed prior to validation.
2. **Traceability** – Environmental samples were tracked from field collection through laboratory reporting.
3. **Representativeness** – Laboratory analytical records accurately represented the environmental samples submitted for analysis.
4. **Comparability** – Analytical procedures and reporting formats were evaluated for consistency with EPA Method TO-15 requirements.
5. **Accuracy** – Laboratory control samples, calibration verification, and instrument performance records were evaluated to assess analytical accuracy.
6. **Precision** – Instrument stability, calibration consistency, and quality control documentation were reviewed to identify potential analytical variability.
7. **Usability** – Final data usability was determined through integration of all QA/QC findings rather than reliance upon individual laboratory observations.

G.7 Professional Validation Practices

Table G-5. Professional Validation Practices Applied

Validation Practice	Application
Independent Third-Party Review	Complete ASP independently evaluated
Weight-of-Evidence Evaluation	Multiple QA/QC elements integrated before qualification
Compound-Specific Qualification	Applied only where supported by cumulative evidence
Technical Documentation	All conclusions supported by ASP records
Regulatory Consistency	EPA analytical guidance followed throughout review
Data Usability Assessment	Overall dataset evaluated following completion of individual QA/QC reviews

G.8 Validation Workflow Summary

Table G-6. Validation Process Summary

Validation Phase	Outcome
Administrative Review	Completed
Sample Documentation Review	Completed
Calibration Evaluation	Completed
Instrument Performance Evaluation	Completed
Quality Control Review	Completed
Environmental Sample Validation	Completed
Independent Data Qualification	Completed
Overall Data Usability Assessment	Completed
Final Validation Certification	Completed

G.9 Overall Professional Opinion

The independent validation documented in this report was conducted using established environmental analytical validation practices consistent with EPA guidance for organic analytical data review. Each quality assurance element was evaluated independently and subsequently integrated into a comprehensive assessment of analytical data quality.

The analytical observations identified during validation were limited to a small number of compound-specific quality control issues that were appropriately addressed through independent qualification. No evidence of systemic analytical deficiencies, significant laboratory contamination, or procedural failures was identified.

Accordingly, the analytical data generated for **Sample Delivery Group (SDG) 26G0459** are considered **technically valid and suitable for their intended purpose**, subject to the independent qualifications assigned within this report.

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Technical Report

prepared for:

Hydro Tech Environmental
231 West 29th Street, Suite 1104
New York NY, 10001
Attention: Paul Matli

Report Date: 07/21/2026
Client Project ID: 152 Graham Avenue Brooklyn, NY 240052
Project (SDG) No.: 26G0459

Report Date: 07/21/2026
Client Project ID: 152 Graham Avenue Brooklyn, NY 240052
Project (SDG) No.: 26G0459

Hydro Tech Environmental
231 West 29th Street, Suite 1104
New York NY, 10001
Attention: Paul Matli

General Notes

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on July 08, 2026 and listed below. The project was identified as your project: **152 Graham Avenue Brooklyn, NY 240052**.

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:



Dr. Pejman Ghaemi
Lead Technical Director - Queens

Sample Summary

Sample ID	Client Sample ID	Matrix	Date Collected	Date Received
26G0459-01	IA-7 20260708	Indoor Ambient Air	07/08/2026	07/08/2026
26G0459-02	IA-8 20260708	Indoor Ambient Air	07/08/2026	07/08/2026
26G0459-03	IA-9 20260708	Indoor Ambient Air	07/08/2026	07/08/2026
26G0459-04	IA-10 20260708	Indoor Ambient Air	07/08/2026	07/08/2026
26G0459-05	OA-2 20260708	Outdoor Ambient Ai	07/08/2026	07/08/2026

Client:	Hydro Tech Environmental	**Sample ID:**	**26G0459-01**
Client Project:	152 Graham Avenue Brooklyn, NY 240052	**Date Received:**	07/08/2026
Client Sample ID:	IA-7 20260708	**Collection Date/Time:**	7/8/26 14:02

Lab ID:	**26G0459-01**	**Laboratory:**	ALS Environmental - Queens
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		0.20	0.66	0.956	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 20:33	YR
1,1,1-Trichloroethane	ND		0.18	0.52	0.956	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 20:33	YR
1,1,2,2-Tetrachloroethane	ND		0.19	0.66	0.956	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 20:33	YR
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		0.27	0.73	0.956	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 20:33	YR
1,1,2-Trichloroethane	ND		0.19	0.52	0.956	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 20:33	YR
1,1-Dichloroethane	ND		0.16	0.39	0.956	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 20:33	YR
1,1-Dichloroethylene	ND		0.16	0.19	0.956	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 20:33	YR
1,2,4-Trichlorobenzene	ND		0.27	35	0.956	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 20:33	YR
1,2,4-Trimethylbenzene	**2.6**		0.16	0.47	0.956	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 20:33	YR
1,2-Dibromoethane	ND		0.23	0.73	0.956	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 20:33	YR
1,2-Dichlorobenzene	ND		0.18	0.57	0.956	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 20:33	YR
1,2-Dichloroethane	ND		0.18	0.39	0.956	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 20:33	YR
1,2-Dichloropropane	ND		0.15	0.44	0.956	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 20:33	YR
1,2-Dichlorotetrafluoroethane	ND		0.34	0.67	0.956	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 20:33	YR
1,3,5-Trimethylbenzene	**0.80**		0.072	0.47	0.956	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 20:33	YR
1,3-Butadiene	ND		0.066	0.63	0.956	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 20:33	YR
1,3-Dichlorobenzene	ND		0.16	0.57	0.956	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 20:33	YR
1,3-Dichloropropane	ND		0.14	0.44	0.956	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 20:33	YR
1,4-Dichlorobenzene	ND		0.14	0.57	0.956	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 20:33	YR
1,4-Dioxane	ND		0.36	1.7	0.956	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 20:33	YR
^2,2,4-Trimethylpentane	**0.67**		0.22	0.22	0.956	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 20:33	YR
2-Butanone	**1.5**		0.48	14	0.956	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 20:33	YR
2-Hexanone	ND		0.21	0.78	0.956	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 20:33	YR
3-Chloropropene	ND		0.13	1.5	0.956	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 20:33	YR
4-Methyl-2-pentanone	ND		0.17	0.39	0.956	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 20:33	YR
Acetone	**18**		1.2	11	0.956	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 20:33	YR
Acrylonitrile	ND		2.0	10	0.956	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 20:33	YR
Benzene	**3.6**		0.11	0.31	0.956	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 20:33	YR
Benzyl chloride	ND		0.15	12	0.956	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 20:33	YR
Bromodichloromethane	**0.70**		0.19	0.64	0.956	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 20:33	YR
Bromoform	ND		0.42	0.99	0.956	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 20:33	YR
Bromomethane	ND		0.16	0.37	0.956	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 20:33	YR
Carbon disulfide	ND		0.077	0.30	0.956	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 20:33	YR
Carbon tetrachloride	ND		0.18	0.18	0.956	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 20:33	YR
Chlorobenzene	ND		0.17	0.44	0.956	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 20:33	YR
Chloroethane	ND		0.14	0.25	0.956	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 20:33	YR
Chloroform	**9.7**		0.13	0.47	0.956	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 20:33	YR
Chloromethane	**1.2**		0.14	0.20	0.956	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 20:33	YR
cis-1,2-Dichloroethylene	ND		0.097	0.19	0.956	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 20:33	YR
cis-1,3-Dichloropropylene	ND		0.17	0.43	0.956	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 20:33	YR
Cyclohexane	**1.1**		0.23	0.33	0.956	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 20:33	YR
Dibromochloromethane	ND		0.33	0.81	0.956	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 20:33	YR

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

Client:	Hydro Tech Environmental	**Sample ID:**	**26G0459-01**
Client Project:	152 Graham Avenue Brooklyn, NY 240052	**Date Received:**	07/08/2026
Client Sample ID:	IA-7 20260708	**Collection Date/Time:**	7/8/26 14:02

Lab ID:	**26G0459-01**	**Laboratory:**	ALS Environmental - Queens
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	**1.6**		0.26	0.47	0.956	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 20:33	YR
Ethyl acetate	**1.4**	TO-CCV	0.21	17	0.956	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 20:33	YR
Ethyl Benzene	**0.95**		0.14	0.42	0.956	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 20:33	YR
Hexachlorobutadiene	ND		0.39	1.0	0.956	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 20:33	YR
Isopropanol	**16**		0.056	1.4	0.956	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 20:33	YR
Methyl Methacrylate	**0.39**		0.24	0.39	0.956	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 20:33	YR
Methyl tert-butyl ether (MTBE)	ND		0.11	0.34	0.956	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 20:33	YR
Methylene chloride	**0.40**		0.11	2.0	0.956	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 20:33	YR
^Naphthalene	**1.2**		0.35	5.0	0.956	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 20:33	YR
n-Heptane	ND		0.15	0.39	0.956	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 20:33	YR
n-Hexane	ND		0.11	0.34	0.956	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 20:33	YR
o-Xylene	**1.2**		0.15	0.42	0.956	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 20:33	YR
p- & m- Xylenes	**4.6**	TO-MPX	0.21	0.83	0.956	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 20:33	YR
p-Ethyltoluene	**1.4**		0.16	0.47	0.956	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 20:33	YR
Propylene	ND	TO-CCV, TO-LCS-L	0.094	0.16	0.956	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 20:33	YR
Styrene	ND		0.13	0.41	0.956	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 20:33	YR
Tetrachloroethylene	**3.2**		0.15	0.65	0.956	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 20:33	YR
Tetrahydrofuran	**0.42**		0.095	0.56	0.956	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 20:33	YR
Toluene	**1.9**		0.14	0.36	0.956	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 20:33	YR
trans-1,2-Dichloroethylene	ND		0.091	0.38	0.956	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 20:33	YR
trans-1,3-Dichloropropylene	ND		0.17	0.43	0.956	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 20:33	YR
Trichloroethylene	ND		0.15	0.15	0.956	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 20:33	YR
Trichlorofluoromethane (Freon 11)	**1.1**		0.19	0.54	0.956	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 20:33	YR
Vinyl acetate	ND	TO-LCS-L	0.17	0.34	0.956	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 20:33	YR
Vinyl bromide	ND		0.15	0.42	0.956	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 20:33	YR
Vinyl Chloride	ND		0.098	0.12	0.956	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 20:33	YR

Client:	Hydro Tech Environmental	**Sample ID:**	**26G0459-02**
Client Project:	152 Graham Avenue Brooklyn, NY 240052	**Date Received:**	07/08/2026
Client Sample ID:	IA-8 20260708	**Collection Date/Time:**	7/8/26 12:27

Lab ID:	**26G0459-02**	**Laboratory:**	ALS Environmental - Queens
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		0.20	0.64	0.938	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 21:20	YR
1,1,1-Trichloroethane	ND		0.18	0.51	0.938	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 21:20	YR
1,1,2,2-Tetrachloroethane	ND		0.18	0.64	0.938	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 21:20	YR
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		0.26	0.72	0.938	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 21:20	YR

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Client:	Hydro Tech Environmental	**Sample ID:**	**26G0459-02**
Client Project:	152 Graham Avenue Brooklyn, NY 240052	**Date Received:**	07/08/2026
Client Sample ID:	IA-8 20260708	**Collection Date/Time:**	7/8/26 12:27

Lab ID:	**26G0459-02**	**Laboratory:**	ALS Environmental - Queens
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
1,1,2-Trichloroethane	ND		0.18	0.51	0.938	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 21:20	YR
1,1-Dichloroethane	ND		0.15	0.38	0.938	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 21:20	YR
1,1-Dichloroethylene	ND		0.16	0.19	0.938	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 21:20	YR
1,2,4-Trichlorobenzene	ND		0.27	35	0.938	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 21:20	YR
1,2,4-Trimethylbenzene	**3.3**		0.15	0.46	0.938	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 21:20	YR
1,2-Dibromoethane	ND		0.23	0.72	0.938	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 21:20	YR
1,2-Dichlorobenzene	ND		0.17	0.56	0.938	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 21:20	YR
1,2-Dichloroethane	ND		0.17	0.38	0.938	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 21:20	YR
1,2-Dichloropropane	ND		0.15	0.43	0.938	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 21:20	YR
1,2-Dichlorotetrafluoroethane	ND		0.33	0.66	0.938	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 21:20	YR
1,3,5-Trimethylbenzene	**0.97**		0.071	0.46	0.938	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 21:20	YR
1,3-Butadiene	**0.25**		0.064	0.62	0.938	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 21:20	YR
1,3-Dichlorobenzene	ND		0.16	0.56	0.938	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 21:20	YR
1,3-Dichloropropane	ND		0.13	0.43	0.938	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 21:20	YR
1,4-Dichlorobenzene	ND		0.13	0.56	0.938	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 21:20	YR
1,4-Dioxane	ND		0.35	1.7	0.938	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 21:20	YR
^2,2,4-Trimethylpentane	ND		0.22	0.22	0.938	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 21:20	YR
2-Butanone	**1.2**		0.47	14	0.938	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 21:20	YR
2-Hexanone	ND		0.21	0.77	0.938	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 21:20	YR
3-Chloropropene	ND		0.12	1.5	0.938	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 21:20	YR
4-Methyl-2-pentanone	ND		0.17	0.38	0.938	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 21:20	YR
Acetone	**25**		1.2	11	0.938	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 21:20	YR
Acrylonitrile	ND		1.9	10	0.938	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 21:20	YR
Benzene	**0.90**		0.11	0.30	0.938	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 21:20	YR
Benzyl chloride	ND		0.15	12	0.938	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 21:20	YR
Bromodichloromethane	ND		0.19	0.63	0.938	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 21:20	YR
Bromoform	ND		0.41	0.97	0.938	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 21:20	YR
Bromomethane	ND		0.16	0.36	0.938	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 21:20	YR
Carbon disulfide	ND		0.075	0.29	0.938	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 21:20	YR
Carbon tetrachloride	ND		0.18	0.18	0.938	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 21:20	YR
Chlorobenzene	ND		0.16	0.43	0.938	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 21:20	YR
Chloroethane	ND		0.14	0.25	0.938	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 21:20	YR
Chloroform	**2.2**		0.13	0.46	0.938	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 21:20	YR
Chloromethane	**0.97**		0.14	0.19	0.938	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 21:20	YR
cis-1,2-Dichloroethylene	ND		0.096	0.19	0.938	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 21:20	YR
cis-1,3-Dichloropropylene	ND		0.17	0.43	0.938	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 21:20	YR
Cyclohexane	**0.65**		0.23	0.32	0.938	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 21:20	YR
Dibromochloromethane	ND		0.32	0.80	0.938	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 21:20	YR
Dichlorodifluoromethane	**1.6**		0.26	0.46	0.938	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 21:20	YR
Ethyl acetate	**1.2**	TO-CCV	0.20	17	0.938	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 21:20	YR
Ethyl Benzene	**0.94**		0.14	0.41	0.938	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 21:20	YR
Hexachlorobutadiene	ND		0.38	1.0	0.938	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 21:20	YR
Isopropanol	**15**		0.055	1.4	0.938	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 21:20	YR

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Client:	Hydro Tech Environmental	**Sample ID:**	**26G0459-02**
Client Project:	152 Graham Avenue Brooklyn, NY 240052	**Date Received:**	07/08/2026
Client Sample ID:	IA-8 20260708	**Collection Date/Time:**	7/8/26 12:27

Lab ID:	**26G0459-02**	**Laboratory:**	ALS Environmental - Queens
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
Methyl Methacrylate	**0.58**		0.24	0.38	0.938	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 21:20	YR
Methyl tert-butyl ether (MTBE)	ND		0.10	0.34	0.938	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 21:20	YR
Methylene chloride	**0.33**		0.11	2.0	0.938	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 21:20	YR
^Naphthalene	**0.93**		0.34	4.9	0.938	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 21:20	YR
n-Heptane	ND		0.15	0.38	0.938	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 21:20	YR
n-Hexane	**0.40**		0.10	0.33	0.938	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 21:20	YR
o-Xylene	**1.2**		0.14	0.41	0.938	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 21:20	YR
p- & m- Xylenes	**4.9**	TO-MPX	0.21	0.81	0.938	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 21:20	YR
p-Ethyltoluene	**1.9**		0.16	0.46	0.938	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 21:20	YR
Propylene	ND	TO-CCV, TO-LCS-L	0.092	0.16	0.938	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 21:20	YR
Styrene	ND		0.12	0.40	0.938	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 21:20	YR
Tetrachloroethylene	**2.8**		0.15	0.64	0.938	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 21:20	YR
Tetrahydrofuran	ND		0.093	0.55	0.938	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 21:20	YR
Toluene	**1.7**		0.14	0.35	0.938	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 21:20	YR
trans-1,2-Dichloroethylene	ND		0.089	0.37	0.938	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 21:20	YR
trans-1,3-Dichloropropylene	ND		0.17	0.43	0.938	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 21:20	YR
Trichloroethylene	ND		0.15	0.15	0.938	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 21:20	YR
Trichlorofluoromethane (Freon 11)	**1.1**		0.19	0.53	0.938	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 21:20	YR
Vinyl acetate	ND	TO-LCS-L	0.17	0.33	0.938	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 21:20	YR
Vinyl bromide	ND		0.14	0.41	0.938	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 21:20	YR
Vinyl Chloride	ND		0.096	0.12	0.938	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 21:20	YR

Client:	Hydro Tech Environmental	**Sample ID:**	**26G0459-03**
Client Project:	152 Graham Avenue Brooklyn, NY 240052	**Date Received:**	07/08/2026
Client Sample ID:	IA-9 20260708	**Collection Date/Time:**	7/8/26 14:27

Lab ID:	**26G0459-03**	**Laboratory:**	ALS Environmental - Queens
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		0.20	0.64	0.939	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 22:07	YR
1,1,1-Trichloroethane	ND		0.18	0.51	0.939	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 22:07	YR
1,1,2,2-Tetrachloroethane	ND		0.18	0.64	0.939	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 22:07	YR
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		0.26	0.72	0.939	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 22:07	YR
1,1,2-Trichloroethane	ND		0.18	0.51	0.939	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 22:07	YR
1,1-Dichloroethane	ND		0.15	0.38	0.939	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 22:07	YR
1,1-Dichloroethylene	ND		0.16	0.19	0.939	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 22:07	YR
1,2,4-Trichlorobenzene	ND		0.27	35	0.939	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 22:07	YR
1,2,4-Trimethylbenzene	**6.3**		0.16	0.46	0.939	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 22:07	YR

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Client:	Hydro Tech Environmental	**Sample ID:**	**26G0459-03**
Client Project:	152 Graham Avenue Brooklyn, NY 240052	**Date Received:**	07/08/2026
Client Sample ID:	IA-9 20260708	**Collection Date/Time:**	7/8/26 14:27

Lab ID:	**26G0459-03**	**Laboratory:**	ALS Environmental - Queens
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
1,2-Dibromoethane	ND		0.23	0.72	0.939	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 22:07	YR
1,2-Dichlorobenzene	ND		0.17	0.56	0.939	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 22:07	YR
1,2-Dichloroethane	ND		0.17	0.38	0.939	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 22:07	YR
1,2-Dichloropropane	ND		0.15	0.43	0.939	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 22:07	YR
1,2-Dichlorotetrafluoroethane	ND		0.33	0.66	0.939	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 22:07	YR
1,3,5-Trimethylbenzene	**2.0**		0.071	0.46	0.939	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 22:07	YR
1,3-Butadiene	**0.85**		0.064	0.62	0.939	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 22:07	YR
1,3-Dichlorobenzene	ND		0.16	0.56	0.939	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 22:07	YR
1,3-Dichloropropane	ND		0.13	0.43	0.939	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 22:07	YR
1,4-Dichlorobenzene	ND		0.13	0.56	0.939	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 22:07	YR
1,4-Dioxane	ND		0.35	1.7	0.939	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 22:07	YR
^2,2,4-Trimethylpentane	**0.44**		0.22	0.22	0.939	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 22:07	YR
2-Butanone	**4.2**		0.47	14	0.939	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 22:07	YR
2-Hexanone	ND		0.21	0.77	0.939	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 22:07	YR
3-Chloropropene	ND		0.12	1.5	0.939	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 22:07	YR
4-Methyl-2-pentanone	**0.42**		0.17	0.38	0.939	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 22:07	YR
Acetone	**120**		2.2	21	1.763	ug/m³	EPA TO-15	7/13/26 8:00	7/13/26 16:43	YR
Acrylonitrile	ND		1.9	10	0.939	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 22:07	YR
Benzene	**0.93**		0.11	0.30	0.939	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 22:07	YR
Benzyl chloride	ND		0.15	12	0.939	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 22:07	YR
Bromodichloromethane	ND		0.19	0.63	0.939	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 22:07	YR
Bromoform	ND		0.41	0.97	0.939	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 22:07	YR
Bromomethane	ND		0.16	0.36	0.939	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 22:07	YR
Carbon disulfide	**0.50**		0.075	0.29	0.939	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 22:07	YR
Carbon tetrachloride	ND		0.18	0.18	0.939	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 22:07	YR
Chlorobenzene	ND		0.17	0.43	0.939	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 22:07	YR
Chloroethane	ND		0.14	0.25	0.939	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 22:07	YR
Chloroform	**4.4**		0.13	0.46	0.939	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 22:07	YR
Chloromethane	**1.3**		0.14	0.19	0.939	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 22:07	YR
cis-1,2-Dichloroethylene	ND		0.096	0.19	0.939	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 22:07	YR
cis-1,3-Dichloropropylene	ND		0.17	0.43	0.939	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 22:07	YR
Cyclohexane	**3.5**		0.23	0.32	0.939	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 22:07	YR
Dibromochloromethane	ND		0.32	0.80	0.939	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 22:07	YR
Dichlorodifluoromethane	**1.7**		0.26	0.46	0.939	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 22:07	YR
Ethyl acetate	**2.7**	TO-CCV	0.20	17	0.939	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 22:07	YR
Ethyl Benzene	**5.5**		0.14	0.41	0.939	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 22:07	YR
Hexachlorobutadiene	ND		0.38	1.0	0.939	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 22:07	YR
Isopropanol	**48**		0.055	1.4	0.939	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 22:07	YR
Methyl Methacrylate	ND		0.24	0.38	0.939	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 22:07	YR
Methyl tert-butyl ether (MTBE)	ND		0.10	0.34	0.939	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 22:07	YR
Methylene chloride	**0.52**		0.11	2.0	0.939	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 22:07	YR
^Naphthalene	**0.89**		0.34	4.9	0.939	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 22:07	YR
n-Heptane	**1.2**		0.15	0.38	0.939	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 22:07	YR

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Client:	Hydro Tech Environmental	**Sample ID:**	**26G0459-03**
Client Project:	152 Graham Avenue Brooklyn, NY 240052	**Date Received:**	07/08/2026
Client Sample ID:	IA-9 20260708	**Collection Date/Time:**	7/8/26 14:27

Lab ID:	**26G0459-03**	**Laboratory:**	ALS Environmental - Queens
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
n-Hexane	**0.63**		0.10	0.33	0.939	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 22:07	YR
o-Xylene	**5.4**		0.14	0.41	0.939	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 22:07	YR
p- & m- Xylenes	**31**	TO-MPX	0.21	0.82	0.939	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 22:07	YR
p-Ethyltoluene	**3.6**		0.16	0.46	0.939	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 22:07	YR
Propylene	ND	TO-CCV, TO-LCS-L	0.092	0.16	0.939	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 22:07	YR
Styrene	**0.92**		0.12	0.40	0.939	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 22:07	YR
Tetrachloroethylene	**4.3**		0.15	0.64	0.939	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 22:07	YR
Tetrahydrofuran	ND		0.093	0.55	0.939	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 22:07	YR
Toluene	**4.1**		0.14	0.35	0.939	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 22:07	YR
trans-1,2-Dichloroethylene	ND		0.089	0.37	0.939	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 22:07	YR
trans-1,3-Dichloropropylene	ND		0.17	0.43	0.939	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 22:07	YR
Trichloroethylene	**1.6**		0.15	0.15	0.939	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 22:07	YR
Trichlorofluoromethane (Freon 11)	**1.1**		0.19	0.53	0.939	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 22:07	YR
Vinyl acetate	ND	TO-LCS-L	0.17	0.33	0.939	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 22:07	YR
Vinyl bromide	ND		0.14	0.41	0.939	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 22:07	YR
Vinyl Chloride	ND		0.096	0.12	0.939	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 22:07	YR

Client:	Hydro Tech Environmental	**Sample ID:**	**26G0459-04**
Client Project:	152 Graham Avenue Brooklyn, NY 240052	**Date Received:**	07/08/2026
Client Sample ID:	IA-10 20260708	**Collection Date/Time:**	7/8/26 14:23

Lab ID:	**26G0459-04**	**Laboratory:**	ALS Environmental - Queens
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		0.20	0.65	0.944	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 22:54	YR
1,1,1-Trichloroethane	ND		0.18	0.52	0.944	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 22:54	YR
1,1,2,2-Tetrachloroethane	ND		0.18	0.65	0.944	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 22:54	YR
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		0.26	0.72	0.944	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 22:54	YR
1,1,2-Trichloroethane	ND		0.18	0.52	0.944	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 22:54	YR
1,1-Dichloroethane	ND		0.16	0.38	0.944	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 22:54	YR
1,1-Dichloroethylene	ND		0.16	0.19	0.944	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 22:54	YR
1,2,4-Trichlorobenzene	ND		0.27	35	0.944	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 22:54	YR
1,2,4-Trimethylbenzene	**6.3**		0.16	0.46	0.944	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 22:54	YR
1,2-Dibromoethane	ND		0.23	0.73	0.944	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 22:54	YR
1,2-Dichlorobenzene	ND		0.17	0.57	0.944	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 22:54	YR
1,2-Dichloroethane	ND		0.18	0.38	0.944	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 22:54	YR
1,2-Dichloropropane	ND		0.15	0.44	0.944	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 22:54	YR
1,2-Dichlorotetrafluoroethane	ND		0.34	0.66	0.944	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 22:54	YR

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Client:	Hydro Tech Environmental	**Sample ID:**	**26G0459-04**
Client Project:	152 Graham Avenue Brooklyn, NY 240052	**Date Received:**	07/08/2026
Client Sample ID:	IA-10 20260708	**Collection Date/Time:**	7/8/26 14:23

Lab ID:	**26G0459-04**	**Laboratory:**	ALS Environmental - Queens
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
1,3,5-Trimethylbenzene	**2.2**		0.071	0.46	0.944	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 22:54	YR
1,3-Butadiene	**4.8**		0.065	0.63	0.944	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 22:54	YR
1,3-Dichlorobenzene	ND		0.16	0.57	0.944	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 22:54	YR
1,3-Dichloropropane	ND		0.14	0.44	0.944	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 22:54	YR
1,4-Dichlorobenzene	ND		0.14	0.57	0.944	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 22:54	YR
1,4-Dioxane	ND		0.36	1.7	0.944	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 22:54	YR
^2,2,4-Trimethylpentane	**0.75**		0.22	0.22	0.944	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 22:54	YR
2-Butanone	**4.9**		0.47	14	0.944	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 22:54	YR
2-Hexanone	**0.43**		0.21	0.77	0.944	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 22:54	YR
3-Chloropropene	ND		0.12	1.5	0.944	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 22:54	YR
4-Methyl-2-pentanone	ND		0.17	0.39	0.944	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 22:54	YR
Acetone	**56**		1.2	11	0.944	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 22:54	YR
Acrylonitrile	ND		2.0	10	0.944	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 22:54	YR
Benzene	**0.66**		0.11	0.30	0.944	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 22:54	YR
Benzyl chloride	ND		0.15	12	0.944	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 22:54	YR
Bromodichloromethane	ND		0.19	0.63	0.944	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 22:54	YR
Bromoform	ND		0.41	0.98	0.944	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 22:54	YR
Bromomethane	ND		0.16	0.37	0.944	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 22:54	YR
Carbon disulfide	ND		0.076	0.29	0.944	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 22:54	YR
Carbon tetrachloride	ND		0.18	0.18	0.944	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 22:54	YR
Chlorobenzene	ND		0.17	0.43	0.944	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 22:54	YR
Chloroethane	ND		0.14	0.25	0.944	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 22:54	YR
Chloroform	**6.5**		0.13	0.46	0.944	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 22:54	YR
Chloromethane	**1.1**		0.14	0.19	0.944	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 22:54	YR
cis-1,2-Dichloroethylene	ND		0.096	0.19	0.944	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 22:54	YR
cis-1,3-Dichloropropylene	ND		0.17	0.43	0.944	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 22:54	YR
Cyclohexane	**2.7**		0.23	0.32	0.944	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 22:54	YR
Dibromochloromethane	ND		0.33	0.80	0.944	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 22:54	YR
Dichlorodifluoromethane	**1.6**		0.26	0.47	0.944	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 22:54	YR
Ethyl acetate	**2.6**	TO-CCV	0.20	17	0.944	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 22:54	YR
Ethyl Benzene	**9.2**		0.14	0.41	0.944	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 22:54	YR
Hexachlorobutadiene	ND		0.38	1.0	0.944	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 22:54	YR
Isopropanol	**20**		0.056	1.4	0.944	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 22:54	YR
Methyl Methacrylate	**0.46**		0.24	0.39	0.944	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 22:54	YR
Methyl tert-butyl ether (MTBE)	ND		0.10	0.34	0.944	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 22:54	YR
Methylene chloride	ND		0.11	2.0	0.944	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 22:54	YR
^Naphthalene	**1.4**		0.34	4.9	0.944	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 22:54	YR
n-Heptane	**0.74**		0.15	0.39	0.944	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 22:54	YR
n-Hexane	**0.57**		0.10	0.33	0.944	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 22:54	YR
o-Xylene	**9.0**		0.14	0.41	0.944	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 22:54	YR
p- & m- Xylenes	**71**	TO-MPX	0.21	0.82	0.944	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 22:54	YR
p-Ethyltoluene	**3.4**		0.16	0.46	0.944	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 22:54	YR
Propylene	ND	TO-CCV, TO-LCS-L	0.093	0.16	0.944	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 22:54	YR

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Client:	Hydro Tech Environmental	**Sample ID:**	**26G0459-04**
Client Project:	152 Graham Avenue Brooklyn, NY 240052	**Date Received:**	07/08/2026
Client Sample ID:	IA-10 20260708	**Collection Date/Time:**	7/8/26 14:23

Lab ID:	**26G0459-04**	**Laboratory:**	ALS Environmental - Queens
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
Styrene	ND		0.12	0.40	0.944	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 22:54	YR
Tetrachloroethylene	**2.7**		0.15	0.64	0.944	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 22:54	YR
Tetrahydrofuran	ND		0.094	0.56	0.944	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 22:54	YR
Toluene	**2.8**		0.14	0.36	0.944	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 22:54	YR
trans-1,2-Dichloroethylene	ND		0.090	0.37	0.944	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 22:54	YR
trans-1,3-Dichloropropylene	ND		0.17	0.43	0.944	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 22:54	YR
Trichloroethylene	**1.3**		0.15	0.15	0.944	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 22:54	YR
Trichlorofluoromethane (Freon 11)	**1.1**		0.19	0.53	0.944	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 22:54	YR
Vinyl acetate	ND	TO-LCS-L	0.17	0.33	0.944	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 22:54	YR
Vinyl bromide	ND		0.14	0.41	0.944	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 22:54	YR
Vinyl Chloride	ND		0.097	0.12	0.944	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 22:54	YR

Client:	Hydro Tech Environmental	**Sample ID:**	**26G0459-05**
Client Project:	152 Graham Avenue Brooklyn, NY 240052	**Date Received:**	07/08/2026
Client Sample ID:	OA-2 20260708	**Collection Date/Time:**	7/8/26 14:14

Lab ID:	**26G0459-05**	**Laboratory:**	ALS Environmental - Queens
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		0.21	0.69	1.007	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 23:41	YR
1,1,1-Trichloroethane	ND		0.19	0.55	1.007	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 23:41	YR
1,1,2,2-Tetrachloroethane	ND		0.20	0.69	1.007	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 23:41	YR
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		0.28	0.77	1.007	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 23:41	YR
1,1,2-Trichloroethane	ND		0.20	0.55	1.007	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 23:41	YR
1,1-Dichloroethane	ND		0.17	0.41	1.007	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 23:41	YR
1,1-Dichloroethylene	ND		0.17	0.20	1.007	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 23:41	YR
1,2,4-Trichlorobenzene	ND		0.29	37	1.007	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 23:41	YR
1,2,4-Trimethylbenzene	**0.59**		0.17	0.50	1.007	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 23:41	YR
1,2-Dibromoethane	ND		0.24	0.77	1.007	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 23:41	YR
1,2-Dichlorobenzene	ND		0.19	0.61	1.007	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 23:41	YR
1,2-Dichloroethane	ND		0.19	0.41	1.007	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 23:41	YR
1,2-Dichloropropane	ND		0.16	0.47	1.007	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 23:41	YR
1,2-Dichlorotetrafluoroethane	ND		0.36	0.70	1.007	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 23:41	YR
1,3,5-Trimethylbenzene	ND		0.076	0.50	1.007	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 23:41	YR
1,3-Butadiene	ND		0.069	0.67	1.007	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 23:41	YR
1,3-Dichlorobenzene	ND		0.17	0.61	1.007	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 23:41	YR
1,3-Dichloropropane	ND		0.14	0.47	1.007	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 23:41	YR
1,4-Dichlorobenzene	ND		0.14	0.61	1.007	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 23:41	YR
1,4-Dioxane	ND		0.38	1.8	1.007	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 23:41	YR

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Client:	Hydro Tech Environmental	**Sample ID:**	**26G0459-05**
Client Project:	152 Graham Avenue Brooklyn, NY 240052	**Date Received:**	07/08/2026
Client Sample ID:	OA-2 20260708	**Collection Date/Time:**	7/8/26 14:14

Lab ID:	**26G0459-05**	**Laboratory:**	ALS Environmental - Queens
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
^2,2,4-Trimethylpentane	**0.47**		0.24	0.24	1.007	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 23:41	YR
2-Butanone	**2.4**		0.50	15	1.007	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 23:41	YR
2-Hexanone	**0.45**		0.22	0.83	1.007	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 23:41	YR
3-Chloropropene	ND		0.13	1.6	1.007	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 23:41	YR
4-Methyl-2-pentanone	**1.5**		0.18	0.41	1.007	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 23:41	YR
Acetone	**21**		1.2	12	1.007	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 23:41	YR
Acrylonitrile	ND		2.1	11	1.007	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 23:41	YR
Benzene	**0.39**		0.12	0.32	1.007	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 23:41	YR
Benzyl chloride	ND		0.16	13	1.007	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 23:41	YR
Bromodichloromethane	ND		0.20	0.67	1.007	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 23:41	YR
Bromoform	ND		0.44	1.0	1.007	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 23:41	YR
Bromomethane	ND		0.17	0.39	1.007	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 23:41	YR
Carbon disulfide	ND		0.081	0.31	1.007	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 23:41	YR
Carbon tetrachloride	ND		0.19	0.19	1.007	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 23:41	YR
Chlorobenzene	ND		0.18	0.46	1.007	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 23:41	YR
Chloroethane	ND		0.15	0.27	1.007	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 23:41	YR
Chloroform	ND		0.14	0.49	1.007	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 23:41	YR
Chloromethane	**0.96**		0.15	0.21	1.007	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 23:41	YR
cis-1,2-Dichloroethylene	ND		0.10	0.20	1.007	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 23:41	YR
cis-1,3-Dichloropropylene	ND		0.18	0.46	1.007	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 23:41	YR
Cyclohexane	**0.62**		0.24	0.35	1.007	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 23:41	YR
Dibromochloromethane	ND		0.35	0.86	1.007	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 23:41	YR
Dichlorodifluoromethane	**1.6**		0.28	0.50	1.007	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 23:41	YR
Ethyl acetate	**1.3**	TO-CCV	0.22	18	1.007	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 23:41	YR
Ethyl Benzene	ND		0.15	0.44	1.007	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 23:41	YR
Hexachlorobutadiene	ND		0.41	1.1	1.007	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 23:41	YR
Isopropanol	**5.7**		0.059	1.5	1.007	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 23:41	YR
Methyl Methacrylate	ND		0.26	0.41	1.007	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 23:41	YR
Methyl tert-butyl ether (MTBE)	ND		0.11	0.36	1.007	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 23:41	YR
Methylene chloride	**0.38**		0.12	2.1	1.007	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 23:41	YR
^Naphthalene	**1.9**		0.36	5.3	1.007	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 23:41	YR
n-Heptane	ND		0.16	0.41	1.007	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 23:41	YR
n-Hexane	**0.35**		0.11	0.35	1.007	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 23:41	YR
o-Xylene	ND		0.15	0.44	1.007	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 23:41	YR
p- & m- Xylenes	**1.4**	TO-MPX	0.22	0.87	1.007	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 23:41	YR
p-Ethyltoluene	**0.69**		0.17	0.50	1.007	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 23:41	YR
Propylene	**0.76**	TO-CCV, TO-LCS-L	0.099	0.17	1.007	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 23:41	YR
Styrene	ND		0.13	0.43	1.007	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 23:41	YR
Tetrachloroethylene	**2.0**		0.16	0.68	1.007	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 23:41	YR
Tetrahydrofuran	ND		0.10	0.59	1.007	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 23:41	YR
Toluene	**1.3**		0.15	0.38	1.007	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 23:41	YR
trans-1,2-Dichloroethylene	ND		0.096	0.40	1.007	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 23:41	YR
trans-1,3-Dichloropropylene	ND		0.18	0.46	1.007	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 23:41	YR

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

Client:	Hydro Tech Environmental	**Sample ID:**	**26G0459-05**
Client Project:	152 Graham Avenue Brooklyn, NY 240052	**Date Received:**	07/08/2026
Client Sample ID:	OA-2 20260708	**Collection Date/Time:**	7/8/26 14:14

Lab ID:	**26G0459-05**	**Laboratory:**	ALS Environmental - Queens
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
Trichloroethylene	ND		0.16	0.16	1.007	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 23:41	YR
Trichlorofluoromethane (Freon 11)	**1.2**		0.20	0.57	1.007	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 23:41	YR
Vinyl acetate	ND	TO-LCS-L	0.18	0.35	1.007	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 23:41	YR
Vinyl bromide	ND		0.15	0.44	1.007	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 23:41	YR
Vinyl Chloride	ND		0.10	0.13	1.007	ug/m³	EPA TO-15	7/9/26 8:00	7/10/26 23:41	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:	26G0459
Client:	Hydro Tech Environmental	Project:	152 Graham Avenue Brooklyn, NY 240(

Volatile Organic Compounds in Air by GC/MS

Client Sample Id:	Lab Sample Id:	Matrix:
IA-7 20260708	26G0459-01	Indoor Ambient Air
IA-8 20260708	26G0459-02	Indoor Ambient Air
IA-9 20260708	26G0459-03	Indoor Ambient Air
IA-9 20260708	26G0459-03RE1	Indoor Ambient Air
IA-10 20260708	26G0459-04	Indoor Ambient Air
OA-2 20260708	26G0459-05	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
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

List of Certifications

Code	Description	Number	Expires
NJDEP-NY037	NJDEP Certification - Queens	NY037	06/30/2027
NYSDOH-NY12058	NYSDOH NELAC/ELAP Program - Queens	NY ELAP-12058	04/01/2027

File Not Found: Work\26G\26G0459_Narrative.pdf

Analytical Batch Summary

Batch ID: BG60574	**Preparation Method:** EPA TO15 PREP	**Prepared By:** YR
Sample ID	**Client Sample ID**	**Preparation Date**
26G0459-01	IA-7 20260708	07/09/26
26G0459-02	IA-8 20260708	07/09/26
26G0459-03	IA-9 20260708	07/09/26
26G0459-04	IA-10 20260708	07/09/26
26G0459-05	OA-2 20260708	07/09/26
BG60574-BLK1	Blank	07/09/26
BG60574-BS1	LCS	07/09/26

Batch ID: BG60588	**Preparation Method:** EPA TO15 PREP	**Prepared By:** YR
Sample ID	**Client Sample ID**	**Preparation Date**
26G0459-03RE1	IA-9 20260708	07/13/26
BG60588-BLK1	Blank	07/13/26
BG60588-BS1	LCS	07/13/26

HOLDING TIME SUMMARY

EPA TO-15

Laboratory: ALS Environmental - Stratford
SDG: 26G0459
Client: Hydro Tech Environmental
Project: 152 Graham Avenue Brooklyn, NY 240052

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
IA-7 20260708	07/08/26 14:02	07/08/26 17:49	30.00	07/09/26 08:00	08/07/26 14:02	30.00	07/10/26 20:33	08/07/26 14:02	
IA-8 20260708	07/08/26 12:27	07/08/26 17:49	30.00	07/09/26 08:00	08/07/26 12:27	30.00	07/10/26 21:20	08/07/26 12:27	
IA-9 20260708	07/08/26 14:27	07/08/26 17:49	30.00	07/09/26 08:00	08/07/26 14:27	30.00	07/10/26 22:07	08/07/26 14:27	
IA-9 20260708	07/08/26 14:27	07/08/26 17:49	30.00	07/13/26 08:00	08/07/26 14:27	30.00	07/13/26 16:43	08/07/26 14:27	
IA-10 20260708	07/08/26 14:23	07/08/26 17:49	30.00	07/09/26 08:00	08/07/26 14:23	30.00	07/10/26 22:54	08/07/26 14:23	
OA-2 20260708	07/08/26 14:14	07/08/26 17:49	30.00	07/09/26 08:00	08/07/26 14:14	30.00	07/10/26 23:41	08/07/26 14:14	

HOLDING TIME SUMMARY

SDG: 26G0459
Project: 152 Graham Avenue Brooklyn, NY 240052

Method EPA TO-15 **Matrix: Air** Hold Time (Days) **Sampled To Preparation:** 30.00 Prepared To Analyzed:: 30.00

Sample Name	Date				Expiration Date(s)		Days To		Q
	Sampled	Received	Prepared	Analyzed	Preparation	Analysis	Prep	Analysis	
IA-7 20260708	07/08/26 14:02	07/08/26 17:49	07/09/26 8:00	07/10/26 20:33	08/07/26 14:02	08/07/26 14:02	0.75	2.27	
IA-8 20260708	07/08/26 12:27	07/08/26 17:49	07/09/26 8:00	07/10/26 21:20	08/07/26 12:27	08/07/26 12:27	0.81	2.37	
IA-9 20260708	07/08/26 14:27	07/08/26 17:49	07/09/26 8:00	07/10/26 22:07	08/07/26 14:27	08/07/26 14:27	0.73	2.32	
IA-9 20260708	07/08/26 14:27	07/08/26 17:49	07/13/26 8:00	07/13/26 16:43	08/07/26 14:27	08/07/26 14:27	4.73	5.09	
IA-10 20260708	07/08/26 14:23	07/08/26 17:49	07/09/26 8:00	07/10/26 22:54	08/07/26 14:23	08/07/26 14:23	0.73	2.35	
OA-2 20260708	07/08/26 14:14	07/08/26 17:49	07/09/26 8:00	07/10/26 23:41	08/07/26 14:14	08/07/26 14:14	0.74	2.39	

Definitions and Other Explanations

Summary of Non-Conformance and Data Qualifiers Related

this Work Order: 26G0459

TO-MPX	P & M Xylene is a mixture of two xylene isomers. Since the exact proportions are unknown, treat the mixture as a single chemical and use a molecular weight of 106.16 for all calculations.
TO-LCS-L	The result reported for this compound may be biased low due to its behavior in the analysis batch LCS where it recovered less 70% of the expected value.
TO-CCV	The value reported is ESTIMATED for this compound due to its behavior during continuing calibration verification (>30% Difference from initial calibration).
/\	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.

Definitions and Other Explanations (Continued)

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.

Positive Hits Included in This Report

Work Order No: 26G0459

Parameter	Result	Flag	MDL	RL	Units	Specific Method	Analyzed
26G0459-01 - IA-7 20260708							
1,2,4-Trimethylbenzene	2.6		0.16	0.47	ug/m³	EPA TO-15	07/10/26 20:33
1,3,5-Trimethylbenzene	0.80		0.072	0.47	ug/m³	EPA TO-15	07/10/26 20:33
^2,2,4-Trimethylpentane	0.67		0.22	0.22	ug/m³	EPA TO-15	07/10/26 20:33
2-Butanone	1.5		0.48	14	ug/m³	EPA TO-15	07/10/26 20:33
Acetone	18		1.2	11	ug/m³	EPA TO-15	07/10/26 20:33
Benzene	3.6		0.11	0.31	ug/m³	EPA TO-15	07/10/26 20:33
Bromodichloromethane	0.70		0.19	0.64	ug/m³	EPA TO-15	07/10/26 20:33
Chloroform	9.7		0.13	0.47	ug/m³	EPA TO-15	07/10/26 20:33
Chloromethane	1.2		0.14	0.20	ug/m³	EPA TO-15	07/10/26 20:33
Cyclohexane	1.1		0.23	0.33	ug/m³	EPA TO-15	07/10/26 20:33
Dichlorodifluoromethane	1.6		0.26	0.47	ug/m³	EPA TO-15	07/10/26 20:33
Ethyl acetate	1.4	TO-CCV	0.21	17	ug/m³	EPA TO-15	07/10/26 20:33
Ethyl Benzene	0.95		0.14	0.42	ug/m³	EPA TO-15	07/10/26 20:33
Isopropanol	16		0.056	1.4	ug/m³	EPA TO-15	07/10/26 20:33
Methyl Methacrylate	0.39		0.24	0.39	ug/m³	EPA TO-15	07/10/26 20:33
Methylene chloride	0.40		0.11	2.0	ug/m³	EPA TO-15	07/10/26 20:33
^Naphthalene	1.2		0.35	5.0	ug/m³	EPA TO-15	07/10/26 20:33
o-Xylene	1.2		0.15	0.42	ug/m³	EPA TO-15	07/10/26 20:33
p- & m- Xylenes	4.6	TO-MPX	0.21	0.83	ug/m³	EPA TO-15	07/10/26 20:33
p-Ethyltoluene	1.4		0.16	0.47	ug/m³	EPA TO-15	07/10/26 20:33
Tetrachloroethylene	3.2		0.15	0.65	ug/m³	EPA TO-15	07/10/26 20:33
Tetrahydrofuran	0.42		0.095	0.56	ug/m³	EPA TO-15	07/10/26 20:33
Toluene	1.9		0.14	0.36	ug/m³	EPA TO-15	07/10/26 20:33
Trichlorofluoromethane (Freon 11)	1.1		0.19	0.54	ug/m³	EPA TO-15	07/10/26 20:33
26G0459-02 - IA-8 20260708							
1,2,4-Trimethylbenzene	3.3		0.15	0.46	ug/m³	EPA TO-15	07/10/26 21:20
1,3,5-Trimethylbenzene	0.97		0.071	0.46	ug/m³	EPA TO-15	07/10/26 21:20
1,3-Butadiene	0.25		0.064	0.62	ug/m³	EPA TO-15	07/10/26 21:20
2-Butanone	1.2		0.47	14	ug/m³	EPA TO-15	07/10/26 21:20
Acetone	25		1.2	11	ug/m³	EPA TO-15	07/10/26 21:20
Benzene	0.90		0.11	0.30	ug/m³	EPA TO-15	07/10/26 21:20
Chloroform	2.2		0.13	0.46	ug/m³	EPA TO-15	07/10/26 21:20
Chloromethane	0.97		0.14	0.19	ug/m³	EPA TO-15	07/10/26 21:20
Cyclohexane	0.65		0.23	0.32	ug/m³	EPA TO-15	07/10/26 21:20
Dichlorodifluoromethane	1.6		0.26	0.46	ug/m³	EPA TO-15	07/10/26 21:20
Ethyl acetate	1.2	TO-CCV	0.20	17	ug/m³	EPA TO-15	07/10/26 21:20
Ethyl Benzene	0.94		0.14	0.41	ug/m³	EPA TO-15	07/10/26 21:20
Isopropanol	15		0.055	1.4	ug/m³	EPA TO-15	07/10/26 21:20
Methyl Methacrylate	0.58		0.24	0.38	ug/m³	EPA TO-15	07/10/26 21:20
Methylene chloride	0.33		0.11	2.0	ug/m³	EPA TO-15	07/10/26 21:20
^Naphthalene	0.93		0.34	4.9	ug/m³	EPA TO-15	07/10/26 21:20
n-Hexane	0.40		0.10	0.33	ug/m³	EPA TO-15	07/10/26 21:20
o-Xylene	1.2		0.14	0.41	ug/m³	EPA TO-15	07/10/26 21:20
p- & m- Xylenes	4.9	TO-MPX	0.21	0.81	ug/m³	EPA TO-15	07/10/26 21:20
p-Ethyltoluene	1.9		0.16	0.46	ug/m³	EPA TO-15	07/10/26 21:20
Tetrachloroethylene	2.8		0.15	0.64	ug/m³	EPA TO-15	07/10/26 21:20
Toluene	1.7		0.14	0.35	ug/m³	EPA TO-15	07/10/26 21:20
Trichlorofluoromethane (Freon 11)	1.1		0.19	0.53	ug/m³	EPA TO-15	07/10/26 21:20
26G0459-03 - IA-9 20260708							
1,2,4-Trimethylbenzene	6.3		0.16	0.46	ug/m³	EPA TO-15	07/10/26 22:07
1,3,5-Trimethylbenzene	2.0		0.071	0.46	ug/m³	EPA TO-15	07/10/26 22:07
1,3-Butadiene	0.85		0.064	0.62	ug/m³	EPA TO-15	07/10/26 22:07

Positive Hits Included in This Report

Work Order No: 26G0459

26G0459-03 - 1A-9 20260708							
^2,2,4-Trimethylpentane	0.44		0.22	0.22	ug/m³	EPA TO-15	07/10/26 22:07
2-Butanone	4.2		0.47	14	ug/m³	EPA TO-15	07/10/26 22:07
4-Methyl-2-pentanone	0.42		0.17	0.38	ug/m³	EPA TO-15	07/10/26 22:07
Acetone	120		2.2	21	ug/m³	EPA TO-15	07/13/26 16:43
Benzene	0.93		0.11	0.30	ug/m³	EPA TO-15	07/10/26 22:07
Carbon disulfide	0.50		0.075	0.29	ug/m³	EPA TO-15	07/10/26 22:07
Chloroform	4.4		0.13	0.46	ug/m³	EPA TO-15	07/10/26 22:07
Chloromethane	1.3		0.14	0.19	ug/m³	EPA TO-15	07/10/26 22:07
Cyclohexane	3.5		0.23	0.32	ug/m³	EPA TO-15	07/10/26 22:07
Dichlorodifluoromethane	1.7		0.26	0.46	ug/m³	EPA TO-15	07/10/26 22:07
Ethyl acetate	2.7	TO-CCV	0.20	17	ug/m³	EPA TO-15	07/10/26 22:07
Ethyl Benzene	5.5		0.14	0.41	ug/m³	EPA TO-15	07/10/26 22:07
Isopropanol	48		0.055	1.4	ug/m³	EPA TO-15	07/10/26 22:07
Methylene chloride	0.52		0.11	2.0	ug/m³	EPA TO-15	07/10/26 22:07
^Naphthalene	0.89		0.34	4.9	ug/m³	EPA TO-15	07/10/26 22:07
n-Heptane	1.2		0.15	0.38	ug/m³	EPA TO-15	07/10/26 22:07
n-Hexane	0.63		0.10	0.33	ug/m³	EPA TO-15	07/10/26 22:07
o-Xylene	5.4		0.14	0.41	ug/m³	EPA TO-15	07/10/26 22:07
p- & m- Xylenes	31	TO-MPX	0.21	0.82	ug/m³	EPA TO-15	07/10/26 22:07
p-Ethyltoluene	3.6		0.16	0.46	ug/m³	EPA TO-15	07/10/26 22:07
Styrene	0.92		0.12	0.40	ug/m³	EPA TO-15	07/10/26 22:07
Tetrachloroethylene	4.3		0.15	0.64	ug/m³	EPA TO-15	07/10/26 22:07
Toluene	4.1		0.14	0.35	ug/m³	EPA TO-15	07/10/26 22:07
Trichloroethylene	1.6		0.15	0.15	ug/m³	EPA TO-15	07/10/26 22:07
Trichlorofluoromethane (Freon 11)	1.1		0.19	0.53	ug/m³	EPA TO-15	07/10/26 22:07
26G0459-04 - 1A-10 20260708							
1,2,4-Trimethylbenzene	6.3		0.16	0.46	ug/m³	EPA TO-15	07/10/26 22:54
1,3,5-Trimethylbenzene	2.2		0.071	0.46	ug/m³	EPA TO-15	07/10/26 22:54
1,3-Butadiene	4.8		0.065	0.63	ug/m³	EPA TO-15	07/10/26 22:54
^2,2,4-Trimethylpentane	0.75		0.22	0.22	ug/m³	EPA TO-15	07/10/26 22:54
2-Butanone	4.9		0.47	14	ug/m³	EPA TO-15	07/10/26 22:54
2-Hexanone	0.43		0.21	0.77	ug/m³	EPA TO-15	07/10/26 22:54
Acetone	56		1.2	11	ug/m³	EPA TO-15	07/10/26 22:54
Benzene	0.66		0.11	0.30	ug/m³	EPA TO-15	07/10/26 22:54
Chloroform	6.5		0.13	0.46	ug/m³	EPA TO-15	07/10/26 22:54
Chloromethane	1.1		0.14	0.19	ug/m³	EPA TO-15	07/10/26 22:54
Cyclohexane	2.7		0.23	0.32	ug/m³	EPA TO-15	07/10/26 22:54
Dichlorodifluoromethane	1.6		0.26	0.47	ug/m³	EPA TO-15	07/10/26 22:54
Ethyl acetate	2.6	TO-CCV	0.20	17	ug/m³	EPA TO-15	07/10/26 22:54
Ethyl Benzene	9.2		0.14	0.41	ug/m³	EPA TO-15	07/10/26 22:54
Isopropanol	20		0.056	1.4	ug/m³	EPA TO-15	07/10/26 22:54
Methyl Methacrylate	0.46		0.24	0.39	ug/m³	EPA TO-15	07/10/26 22:54
^Naphthalene	1.4		0.34	4.9	ug/m³	EPA TO-15	07/10/26 22:54
n-Heptane	0.74		0.15	0.39	ug/m³	EPA TO-15	07/10/26 22:54
n-Hexane	0.57		0.10	0.33	ug/m³	EPA TO-15	07/10/26 22:54
o-Xylene	9.0		0.14	0.41	ug/m³	EPA TO-15	07/10/26 22:54
p- & m- Xylenes	71	TO-MPX	0.21	0.82	ug/m³	EPA TO-15	07/10/26 22:54
p-Ethyltoluene	3.4		0.16	0.46	ug/m³	EPA TO-15	07/10/26 22:54
Tetrachloroethylene	2.7		0.15	0.64	ug/m³	EPA TO-15	07/10/26 22:54
Toluene	2.8		0.14	0.36	ug/m³	EPA TO-15	07/10/26 22:54
Trichloroethylene	1.3		0.15	0.15	ug/m³	EPA TO-15	07/10/26 22:54
Trichlorofluoromethane (Freon 11)	1.1		0.19	0.53	ug/m³	EPA TO-15	07/10/26 22:54
26G0459-05 - OA-2 20260708							
1,2,4-Trimethylbenzene	0.59		0.17	0.50	ug/m³	EPA TO-15	07/10/26 23:41

Positive Hits Included in This Report

Work Order No: 26G0459

26G0459-05 - OA-2 20260708							
^2,2,4-Trimethylpentane	0.47		0.24	0.24	ug/m³	EPA TO-15	07/10/26 23:41
2-Butanone	2.4		0.50	15	ug/m³	EPA TO-15	07/10/26 23:41
2-Hexanone	0.45		0.22	0.83	ug/m³	EPA TO-15	07/10/26 23:41
4-Methyl-2-pentanone	1.5		0.18	0.41	ug/m³	EPA TO-15	07/10/26 23:41
Acetone	21		1.2	12	ug/m³	EPA TO-15	07/10/26 23:41
Benzene	0.39		0.12	0.32	ug/m³	EPA TO-15	07/10/26 23:41
Chloromethane	0.96		0.15	0.21	ug/m³	EPA TO-15	07/10/26 23:41
Cyclohexane	0.62		0.24	0.35	ug/m³	EPA TO-15	07/10/26 23:41
Dichlorodifluoromethane	1.6		0.28	0.50	ug/m³	EPA TO-15	07/10/26 23:41
Ethyl acetate	1.3	TO-CCV	0.22	18	ug/m³	EPA TO-15	07/10/26 23:41
Isopropanol	5.7		0.059	1.5	ug/m³	EPA TO-15	07/10/26 23:41
Methylene chloride	0.38		0.12	2.1	ug/m³	EPA TO-15	07/10/26 23:41
^Naphthalene	1.9		0.36	5.3	ug/m³	EPA TO-15	07/10/26 23:41
n-Hexane	0.35		0.11	0.35	ug/m³	EPA TO-15	07/10/26 23:41
p- & m- Xylenes	1.4	TO-MPX	0.22	0.87	ug/m³	EPA TO-15	07/10/26 23:41
p-Ethyltoluene	0.69		0.17	0.50	ug/m³	EPA TO-15	07/10/26 23:41
Propylene	0.76	TO-CCV, TO-LCS-L	0.099	0.17	ug/m³	EPA TO-15	07/10/26 23:41
Tetrachloroethylene	2.0		0.16	0.68	ug/m³	EPA TO-15	07/10/26 23:41
Toluene	1.3		0.15	0.38	ug/m³	EPA TO-15	07/10/26 23:41
Trichlorofluoromethane (Freon 11)	1.2		0.20	0.57	ug/m³	EPA TO-15	07/10/26 23:41

DATA PACKAGE

SDG: 26G0459

Client: Hydro Tech Environmental

Project: 152 Graham Avenue Brooklyn, NY 240052

METHOD DETECTION AND REPORTING LIMITS

EPA TO-15

Laboratory: ALS Environmental - Stratford **SDG:** 26G0459

Client: Hydro Tech Environmental **Project:** 152 Graham Avenue Brooklyn, NY 240052

Matrix: Air **Instrument:** NA

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
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
Carbon disulfide	0.081	0.32	ug/m³

METHOD DETECTION AND REPORTING LIMITS

EPA TO-15

Laboratory: ALS Environmental - Stratford **SDG:** 26G0459

Client: Hydro Tech Environmental **Project:** 152 Graham Avenue Brooklyn, NY 240052

Matrix: Air **Instrument:** NA

Analyte	LOD	LOQ	Units
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
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-Heptane	0.16	0.42	ug/m³
n-Hexane	0.11	0.36	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
Propylene	0.1	0.18	ug/m³
Styrene	0.13	0.43	ug/m³
Tetrachloroethylene	0.16	0.69	ug/m³
Tetrahydrofuran	0.1	0.6	ug/m³
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

METHOD DETECTION AND REPORTING LIMITS

EPA TO-15

Laboratory: ALS Environmental - Stratford **SDG:** 26G0459

Client: Hydro Tech Environmental **Project:** 152 Graham Avenue Brooklyn, NY 240052

Matrix: Air **Instrument:** NA

Analyte	LOD	LOQ	Units
Vinyl Chloride	0.1	0.13	ug/m³

Sample Information

Client Sample ID: **IA-7 20260708** **Sample ID:** **26G0459-01**

Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
26G0459	152 Graham Avenue Brooklyn, NY 240052	Indoor Ambient Air	July 8, 2026 2:02 pm	07/08/2026

Analyzed by: **ALS Environmental - Queens**

Volatile Organic Compounds in Air by GC/MS

Sample Prepared by Method: EPA TO15 PREP

Results Reported to MDL

CAS No.	Parameter	Result	Lab Qualifier	CLP Flag	Units	RL	MDL	Dilution	Reference Method	Prepared	Analyzed Date	By
540-84-1	**^2,2,4-Trimethylpentane**	0.67		D	ug/m³	0.22	0.22	0.956	EPA TO-15	7/9/26 8:00	7/10/26 20:33	YR
91-20-3	**^Naphthalene**	1.2		D	ug/m³	5.0	0.35	0.956	EPA TO-15	7/9/26 8:00	7/10/26 20:33	YR
630-20-6	1,1,1,2-Tetrachloroethane	ND		U	ug/m³	0.66	0.20	0.956	EPA TO-15	7/9/26 8:00	7/10/26 20:33	YR
71-55-6	1,1,1-Trichloroethane	ND		U	ug/m³	0.52	0.18	0.956	EPA TO-15	7/9/26 8:00	7/10/26 20:33	YR
79-34-5	1,1,2,2-Tetrachloroethane	ND		U	ug/m³	0.66	0.19	0.956	EPA TO-15	7/9/26 8:00	7/10/26 20:33	YR
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		U	ug/m³	0.73	0.27	0.956	EPA TO-15	7/9/26 8:00	7/10/26 20:33	YR
79-00-5	1,1,2-Trichloroethane	ND		U	ug/m³	0.52	0.19	0.956	EPA TO-15	7/9/26 8:00	7/10/26 20:33	YR
75-34-3	1,1-Dichloroethane	ND		U	ug/m³	0.39	0.16	0.956	EPA TO-15	7/9/26 8:00	7/10/26 20:33	YR
75-35-4	1,1-Dichloroethylene	ND		U	ug/m³	0.19	0.16	0.956	EPA TO-15	7/9/26 8:00	7/10/26 20:33	YR
120-82-1	1,2,4-Trichlorobenzene	ND		U	ug/m³	35	0.27	0.956	EPA TO-15	7/9/26 8:00	7/10/26 20:33	YR
95-63-6	**1,2,4-Trimethylbenzene**	2.6		D	ug/m³	0.47	0.16	0.956	EPA TO-15	7/9/26 8:00	7/10/26 20:33	YR
106-93-4	1,2-Dibromoethane	ND		U	ug/m³	0.73	0.23	0.956	EPA TO-15	7/9/26 8:00	7/10/26 20:33	YR
95-50-1	1,2-Dichlorobenzene	ND		U	ug/m³	0.57	0.18	0.956	EPA TO-15	7/9/26 8:00	7/10/26 20:33	YR
107-06-2	1,2-Dichloroethane	ND		U	ug/m³	0.39	0.18	0.956	EPA TO-15	7/9/26 8:00	7/10/26 20:33	YR
78-87-5	1,2-Dichloropropane	ND		U	ug/m³	0.44	0.15	0.956	EPA TO-15	7/9/26 8:00	7/10/26 20:33	YR
76-14-2	1,2-Dichlorotetrafluoroethane	ND		U	ug/m³	0.67	0.34	0.956	EPA TO-15	7/9/26 8:00	7/10/26 20:33	YR
108-67-8	**1,3,5-Trimethylbenzene**	0.80		D	ug/m³	0.47	0.072	0.956	EPA TO-15	7/9/26 8:00	7/10/26 20:33	YR
106-99-0	1,3-Butadiene	ND		U	ug/m³	0.63	0.066	0.956	EPA TO-15	7/9/26 8:00	7/10/26 20:33	YR
541-73-1	1,3-Dichlorobenzene	ND		U	ug/m³	0.57	0.16	0.956	EPA TO-15	7/9/26 8:00	7/10/26 20:33	YR
142-28-9	1,3-Dichloropropane	ND		U	ug/m³	0.44	0.14	0.956	EPA TO-15	7/9/26 8:00	7/10/26 20:33	YR
106-46-7	1,4-Dichlorobenzene	ND		U	ug/m³	0.57	0.14	0.956	EPA TO-15	7/9/26 8:00	7/10/26 20:33	YR
123-91-1	1,4-Dioxane	ND		U	ug/m³	1.7	0.36	0.956	EPA TO-15	7/9/26 8:00	7/10/26 20:33	YR
78-93-3	**2-Butanone**	1.5		D	ug/m³	14	0.48	0.956	EPA TO-15	7/9/26 8:00	7/10/26 20:33	YR
591-78-6	2-Hexanone	ND		U	ug/m³	0.78	0.21	0.956	EPA TO-15	7/9/26 8:00	7/10/26 20:33	YR
107-05-1	3-Chloropropene	ND		U	ug/m³	1.5	0.13	0.956	EPA TO-15	7/9/26 8:00	7/10/26 20:33	YR
108-10-1	4-Methyl-2-pentanone	ND		U	ug/m³	0.39	0.17	0.956	EPA TO-15	7/9/26 8:00	7/10/26 20:33	YR
67-64-1	**Acetone**	18		D	ug/m³	11	1.2	0.956	EPA TO-15	7/9/26 8:00	7/10/26 20:33	YR
107-13-1	Acrylonitrile	ND		U	ug/m³	10	2.0	0.956	EPA TO-15	7/9/26 8:00	7/10/26 20:33	YR
71-43-2	**Benzene**	3.6		D	ug/m³	0.31	0.11	0.956	EPA TO-15	7/9/26 8:00	7/10/26 20:33	YR
100-44-7	Benzyl chloride	ND		U	ug/m³	12	0.15	0.956	EPA TO-15	7/9/26 8:00	7/10/26 20:33	YR
75-27-4	**Bromodichloromethane**	0.70		D	ug/m³	0.64	0.19	0.956	EPA TO-15	7/9/26 8:00	7/10/26 20:33	YR
75-25-2	Bromoform	ND		U	ug/m³	0.99	0.42	0.956	EPA TO-15	7/9/26 8:00	7/10/26 20:33	YR
74-83-9	Bromomethane	ND		U	ug/m³	0.37	0.16	0.956	EPA TO-15	7/9/26 8:00	7/10/26 20:33	YR

Sample Information

Client Sample ID: **IA-7 20260708** **Sample ID:** **26G0459-01**

Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
26G0459	152 Graham Avenue Brooklyn, NY 240052	Indoor Ambient Air	July 8, 2026 2:02 pm	07/08/2026

Analyzed by: **ALS Environmental - Queens**

Volatile Organic Compounds in Air by GC/MS

Sample Prepared by Method: EPA TO15 PREP

Results Reported to MDL

CAS No.	Parameter	Result	Lab Qualifier	CLP Flag	Units	RL	MDL	Dilution	Reference Method	Prepared	Analyzed Date	By
75-15-0	Carbon disulfide	ND		U	ug/m³	0.30	0.077	0.956	EPA TO-15	7/9/26 8:00	7/10/26 20:33	YR
56-23-5	Carbon tetrachloride	ND		U	ug/m³	0.18	0.18	0.956	EPA TO-15	7/9/26 8:00	7/10/26 20:33	YR
108-90-7	Chlorobenzene	ND		U	ug/m³	0.44	0.17	0.956	EPA TO-15	7/9/26 8:00	7/10/26 20:33	YR
75-00-3	Chloroethane	ND		U	ug/m³	0.25	0.14	0.956	EPA TO-15	7/9/26 8:00	7/10/26 20:33	YR
67-66-3	**Chloroform**	9.7		D	ug/m³	0.47	0.13	0.956	EPA TO-15	7/9/26 8:00	7/10/26 20:33	YR
74-87-3	**Chloromethane**	1.2		D	ug/m³	0.20	0.14	0.956	EPA TO-15	7/9/26 8:00	7/10/26 20:33	YR
156-59-2	cis-1,2-Dichloroethylene	ND		U	ug/m³	0.19	0.097	0.956	EPA TO-15	7/9/26 8:00	7/10/26 20:33	YR
10061-01-5	cis-1,3-Dichloropropylene	ND		U	ug/m³	0.43	0.17	0.956	EPA TO-15	7/9/26 8:00	7/10/26 20:33	YR
110-82-7	**Cyclohexane**	1.1		D	ug/m³	0.33	0.23	0.956	EPA TO-15	7/9/26 8:00	7/10/26 20:33	YR
124-48-1	Dibromochloromethane	ND		U	ug/m³	0.81	0.33	0.956	EPA TO-15	7/9/26 8:00	7/10/26 20:33	YR
75-71-8	**Dichlorodifluoromethane**	1.6		D	ug/m³	0.47	0.26	0.956	EPA TO-15	7/9/26 8:00	7/10/26 20:33	YR
141-78-6	**Ethyl acetate**	1.4	TO-CCV	D	ug/m³	17	0.21	0.956	EPA TO-15	7/9/26 8:00	7/10/26 20:33	YR
100-41-4	**Ethyl Benzene**	0.95		D	ug/m³	0.42	0.14	0.956	EPA TO-15	7/9/26 8:00	7/10/26 20:33	YR
87-68-3	Hexachlorobutadiene	ND		U	ug/m³	1.0	0.39	0.956	EPA TO-15	7/9/26 8:00	7/10/26 20:33	YR
67-63-0	**Isopropanol**	16		D	ug/m³	1.4	0.056	0.956	EPA TO-15	7/9/26 8:00	7/10/26 20:33	YR
80-62-6	**Methyl Methacrylate**	0.39		D	ug/m³	0.39	0.24	0.956	EPA TO-15	7/9/26 8:00	7/10/26 20:33	YR
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		U	ug/m³	0.34	0.11	0.956	EPA TO-15	7/9/26 8:00	7/10/26 20:33	YR
75-09-2	**Methylene chloride**	0.40		D	ug/m³	2.0	0.11	0.956	EPA TO-15	7/9/26 8:00	7/10/26 20:33	YR
142-82-5	n-Heptane	ND		U	ug/m³	0.39	0.15	0.956	EPA TO-15	7/9/26 8:00	7/10/26 20:33	YR
110-54-3	n-Hexane	ND		U	ug/m³	0.34	0.11	0.956	EPA TO-15	7/9/26 8:00	7/10/26 20:33	YR
95-47-6	**o-Xylene**	1.2		D	ug/m³	0.42	0.15	0.956	EPA TO-15	7/9/26 8:00	7/10/26 20:33	YR
179601-23-1	**p- & m- Xylenes**	4.6	TO-MPX	D	ug/m³	0.83	0.21	0.956	EPA TO-15	7/9/26 8:00	7/10/26 20:33	YR
622-96-8	**p-Ethyltoluene**	1.4		D	ug/m³	0.47	0.16	0.956	EPA TO-15	7/9/26 8:00	7/10/26 20:33	YR
115-07-1	Propylene	ND	TO-CCV, TO-LCS-L	U	ug/m³	0.16	0.094	0.956	EPA TO-15	7/9/26 8:00	7/10/26 20:33	YR
100-42-5	Styrene	ND		U	ug/m³	0.41	0.13	0.956	EPA TO-15	7/9/26 8:00	7/10/26 20:33	YR
127-18-4	**Tetrachloroethylene**	3.2		D	ug/m³	0.65	0.15	0.956	EPA TO-15	7/9/26 8:00	7/10/26 20:33	YR
109-99-9	**Tetrahydrofuran**	0.42		D	ug/m³	0.56	0.095	0.956	EPA TO-15	7/9/26 8:00	7/10/26 20:33	YR
108-88-3	**Toluene**	1.9		D	ug/m³	0.36	0.14	0.956	EPA TO-15	7/9/26 8:00	7/10/26 20:33	YR
156-60-5	trans-1,2-Dichloroethylene	ND		U	ug/m³	0.38	0.091	0.956	EPA TO-15	7/9/26 8:00	7/10/26 20:33	YR
10061-02-6	trans-1,3-Dichloropropylene	ND		U	ug/m³	0.43	0.17	0.956	EPA TO-15	7/9/26 8:00	7/10/26 20:33	YR
79-01-6	Trichloroethylene	ND		U	ug/m³	0.15	0.15	0.956	EPA TO-15	7/9/26 8:00	7/10/26 20:33	YR
75-69-4	**Trichlorofluoromethane (Freon 11)**	1.1		D	ug/m³	0.54	0.19	0.956	EPA TO-15	7/9/26 8:00	7/10/26 20:33	YR
108-05-4	Vinyl acetate	ND	TO-LCS-L	U	ug/m³	0.34	0.17	0.956	EPA TO-15	7/9/26 8:00	7/10/26 20:33	YR

Sample Information

Client Sample ID: **IA-7 20260708** **Sample ID:** **26G0459-01**

Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
26G0459	152 Graham Avenue Brooklyn, NY 240052	Indoor Ambient Air	July 8, 2026 2:02 pm	07/08/2026

Analyzed by: **ALS Environmental - Queens**

Volatile Organic Compounds in Air by GC/MS

Sample Prepared by Method: EPA TO15 PREP

Results Reported to MDL

CAS No.	Parameter	Result	Lab Qualifier	CLP Flag	Units	RL	MDL	Dilution	Reference Method	Prepared	Analyzed Date	By
593-60-2	Vinyl bromide	ND		U	ug/m³	0.42	0.15	0.956	EPA TO-15	7/9/26 8:00	7/10/26 20:33	YR
75-01-4	Vinyl Chloride	ND		U	ug/m³	0.12	0.098	0.956	EPA TO-15	7/9/26 8:00	7/10/26 20:33	YR

Data Path : C:\MassHunter\GCMS\1\data\2026\7-JULY\071026\
Data File : TQQ003141.D
Acq On : 10 Jul 2026 08:33 pm
Operator : YR
Sample : 26G0459-01
Misc : .533X
ALS Vial : 1 Sample Multiplier: 0.956

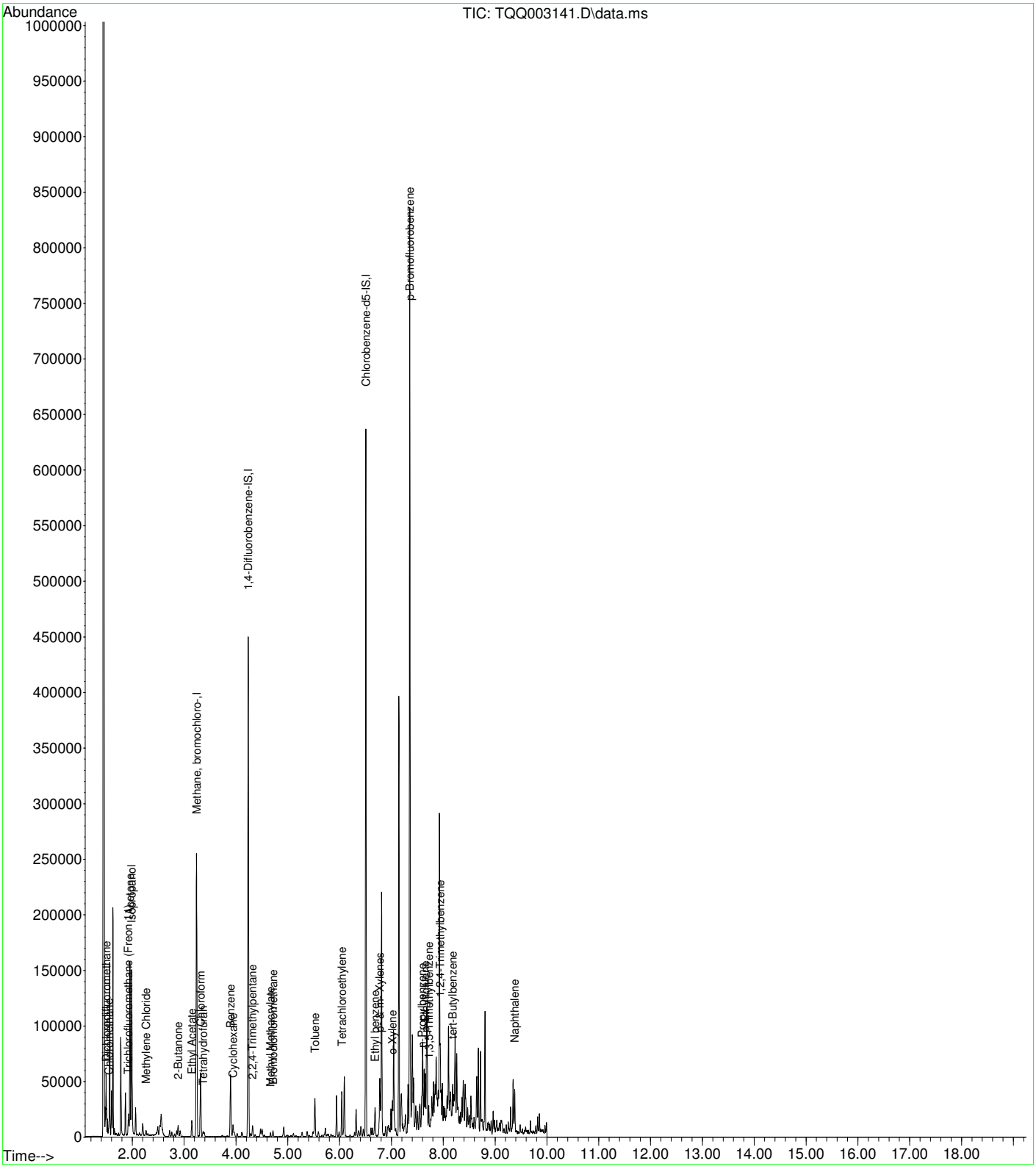
Quant Time: Jul 12 11:49:20 2026
Quant Method : C:\MassHunter\GCMS\1\methods\QA4 01JUNE2026(updated070726).m
Quant Title : TO-15
QLast Update : Tue Jul 07 14:14:35 2026
Response via : Initial Calibration

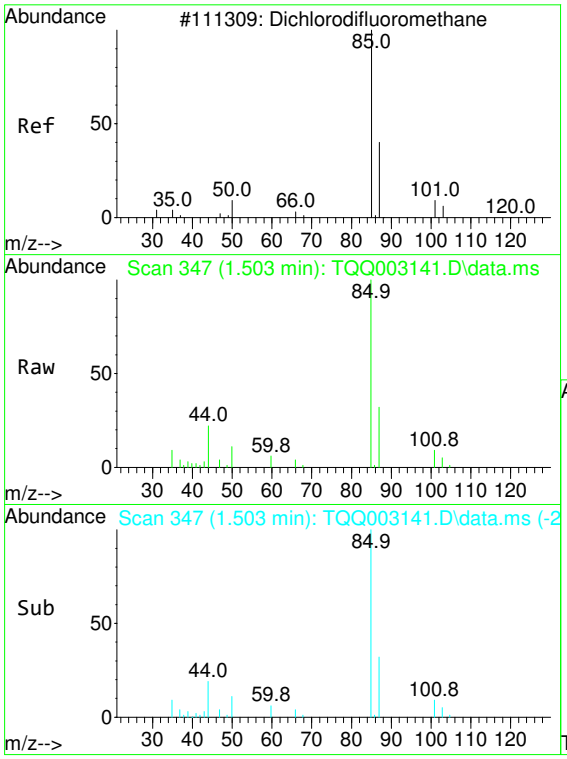
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Methane, bromochloro-	3.240	130	55212	10.00	ppbv	#-0.01
38) 1,4-Difluorobenzene-IS	4.236	114	210379	10.00	ppbv	-0.01
55) Chlorobenzene-d5-IS	6.508	117	194114	10.00	ppbv	0.00
Target Compounds						Qvalue
3) Dichlorodifluoromethane	1.503	85	5943	0.34	ppbv	98
5) Chloromethane	1.550	50	4262	0.60	ppbv #	83
12) Trichlorofluoromethane...	1.919	101	3606	0.21	ppbv #	90
14) Acetone	1.954	58	28996	7.91	ppbv	56
15) Isopropanol	1.986	45	77155	6.93	ppbv #	42
19) Methylene Chloride	2.267	49	905	0.12	ppbv #	58
26) 2-Butanone	2.885	72	2153	0.52	ppbv #	1
29) Ethyl Acetate	3.147	43	10132	0.40	ppbv #	90
30) Chloroform	3.317	83	25699	2.07	ppbv #	83
31) Tetrahydrofuran	3.367	42	1246	0.15	ppbv #	56
34) Cyclohexane	3.943	56	4266	0.33	ppbv #	36
35) Benzene	3.895	78	30400	1.17	ppbv	93
37) 2,2,4-Trimethylpentane	4.319	57	5373	0.15	ppbv #	84
42) Bromodichloromethane	4.717	83	1774	0.11	ppbv #	83
44) Methyl Methacrylate	4.666	41	982	0.10	ppbv #	47
48) Toluene	5.526	91	14844	0.54	ppbv	99
54) Tetrachloroethylene	6.044	166	6260	0.50	ppbv	97
58) Ethyl benzene	6.683	91	8764	0.23	ppbv	97
59) p- & m- Xylenes	6.775	91	17119	1.11	ppbv #	86
62) o-Xylene	7.018	91	9168	0.28	ppbv	97
64) p-Bromofluorobenzene	7.354	95	142589	9.53	ppbv	94
66) n-Propylbenzene	7.590	91	6068	0.12	ppbv	91
67) p-Ethyltoluene	7.649	105	12666	0.30	ppbv	96
68) 1,3,5-Trimethylbenzene	7.720	105	5808	0.17	ppbv	99
69) tert-Butylbenzene	8.182	119	5105	0.12	ppbv #	74
70) 1,2,4-Trimethylbenzene	7.940	105	19834	0.55	ppbv #	35
79) Naphthalene	9.377	128	13316	0.23	ppbv	99

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

Data Path : C:\MassHunter\GCMS\1\data\2026\7-JULY\071026\
Data File : TQQ003141.D
Acq On : 10 Jul 2026 08:33 pm
Operator : YR
Sample : 26G0459-01
Misc : .533X
ALS Vial : 1 Sample Multiplier: 0.956

Quant Time: Jul 12 11:49:20 2026
Quant Method : C:\MassHunter\GCMS\1\methods\QA4 01JUNE2026(updated070726).m
Quant Title : TO-15
QLast Update : Tue Jul 07 14:14:35 2026
Response via : Initial Calibration

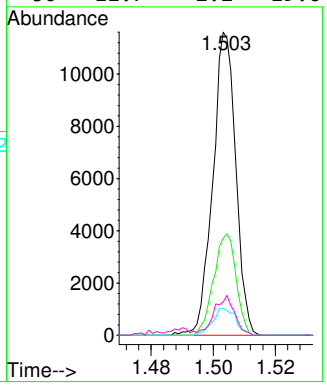


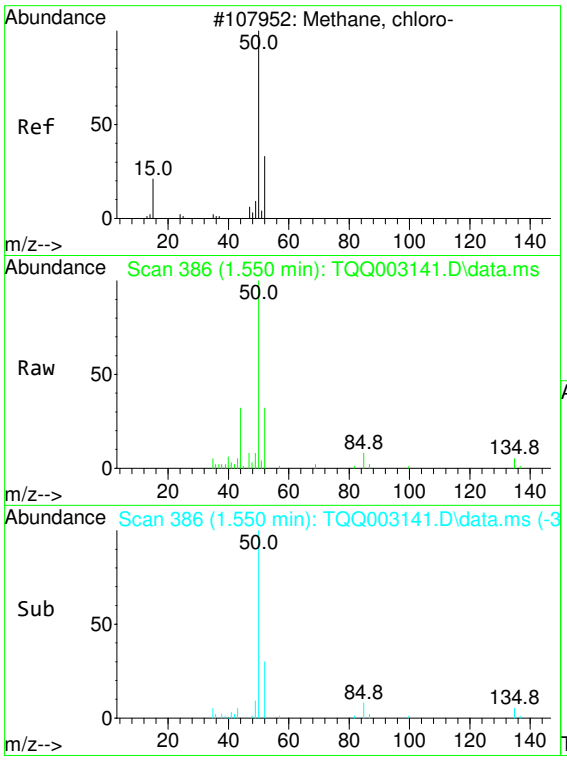


#3
Dichlorodifluoromethane
Concen: 0.34 ppbv
RT: 1.503 min Scan# 347
Delta R.T. 0.000 min
Lab File: TQQ003141.D
Acq: 10 Jul 2026 08:33 pm

Tgt Ion: 85 Resp: 5943

Ion	Ratio	Lower	Upper
85	100		
87	32.8	16.1	48.2
101	9.0	1.9	17.3
50	11.7	2.2	19.6

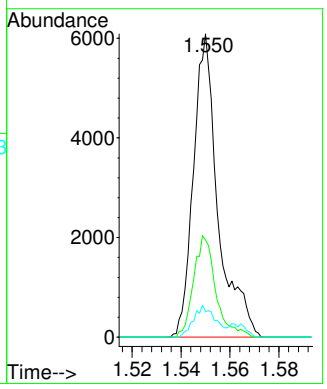


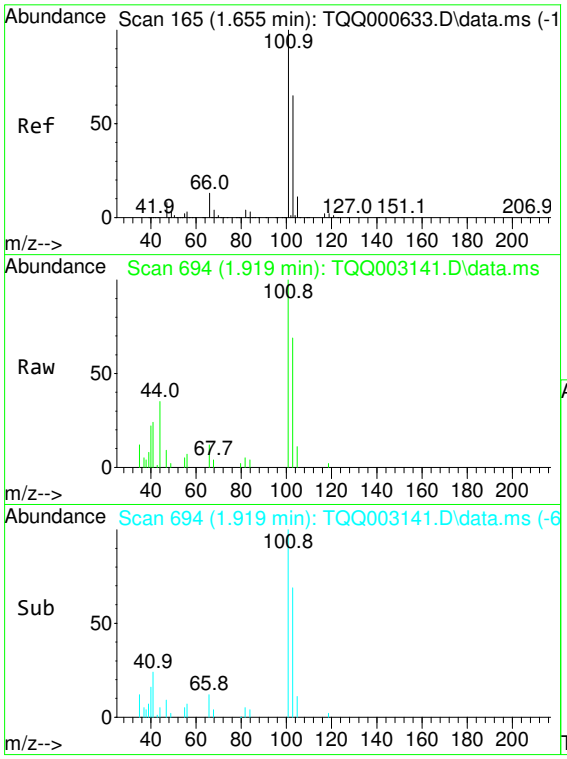


#5
Chloromethane
Concen: 0.60 ppbv
RT: 1.550 min Scan# 386
Delta R.T. -0.002 min
Lab File: TQQ003141.D
Acq: 10 Jul 2026 08:33 pm

Tgt Ion: 50 Resp: 4262

Ion	Ratio	Lower	Upper
50	100		
52	30.1	16.1	33.3
49	0.0	2.3	21.1#

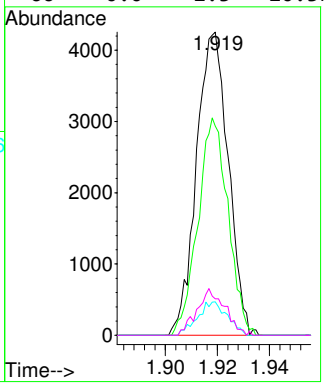


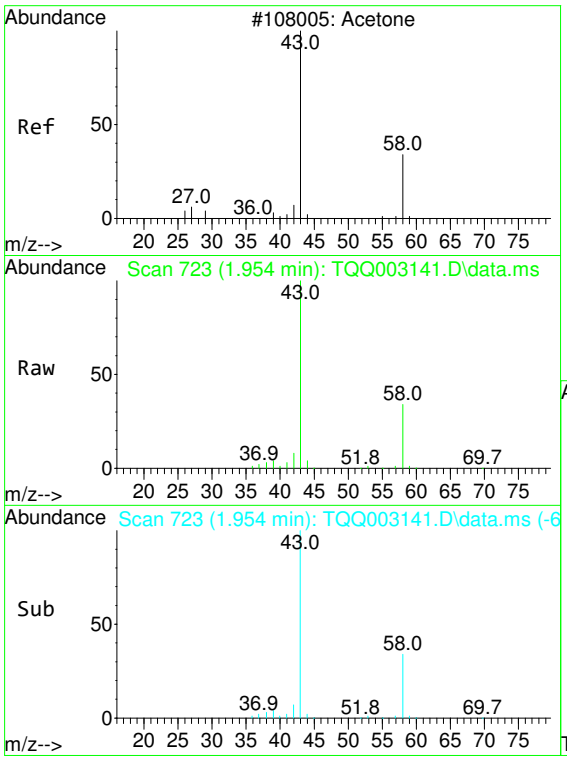


#12
Trichlorofluoromethane (Freon 11)
Concen: 0.21 ppbv
RT: 1.919 min Scan# 694
Delta R.T. -0.001 min
Lab File: TQQ003141.D
Acq: 10 Jul 2026 08:33 pm

Tgt Ion:101 Resp: 3606

Ion	Ratio	Lower	Upper
101	100		
103	67.9	52.2	78.4
105	0.0	2.1	19.3#
66	0.0	2.3	20.3#

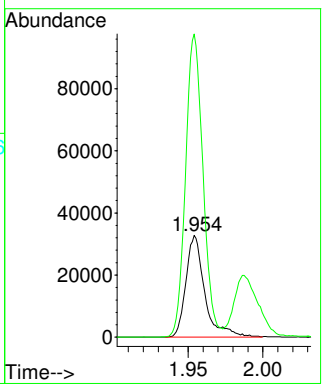


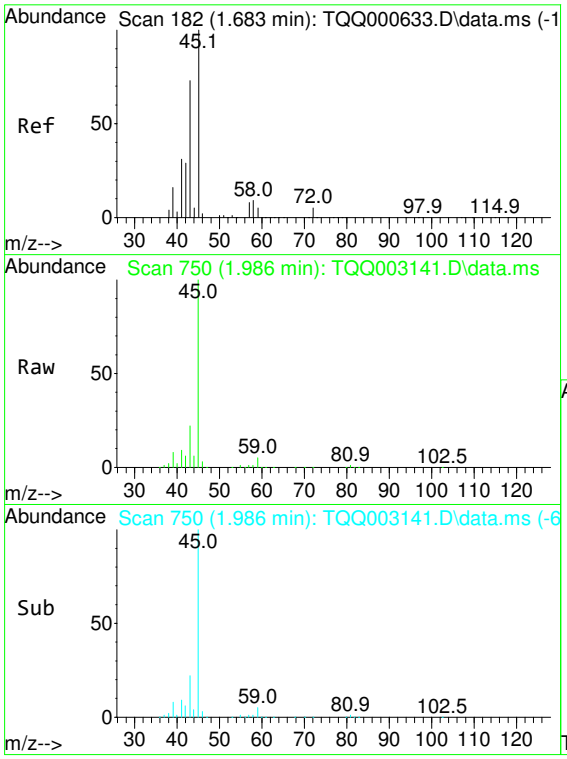


#14
Acetone
Concen: 7.91 ppbv
RT: 1.954 min Scan# 723
Delta R.T. 0.000 min
Lab File: TQQ003141.D
Acq: 10 Jul 2026 08:33 pm

Tgt Ion: 58 Resp: 28996

Ion	Ratio	Lower	Upper
58	100		
43	274.7	0.0	750.2

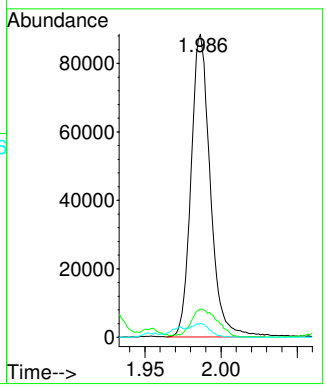


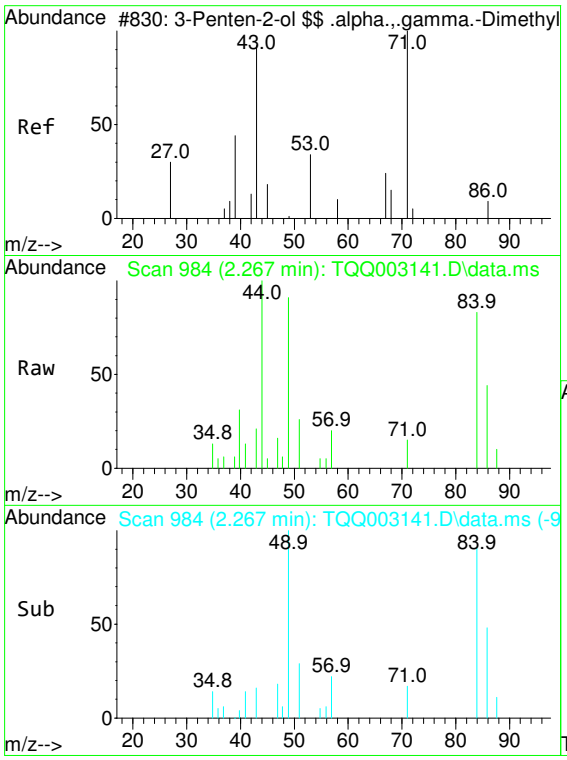


#15
Isopropanol
Concen: 6.93 ppbv
RT: 1.986 min Scan# 750
Delta R.T. 0.000 min
Lab File: TQQ003141.D
Acq: 10 Jul 2026 08:33 pm

Tgt Ion: 45 Resp: 77155

Ion	Ratio	Lower	Upper
45	100		
41	12.7	21.0	98.8#
59	4.0	0.0	8.8

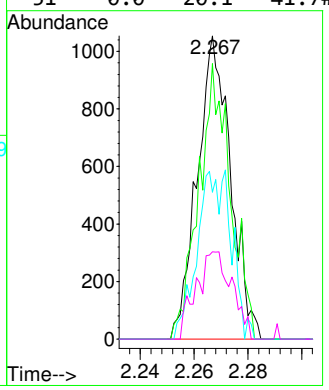


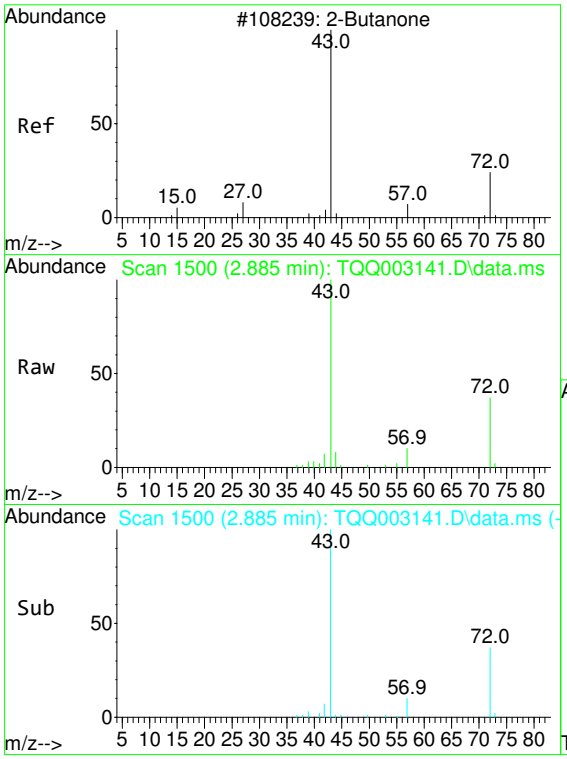


#19
Methylene Chloride
Concen: 0.12 ppbv
RT: 2.267 min Scan# 984
Delta R.T. -0.005 min
Lab File: TQQ003141.D
Acq: 10 Jul 2026 08:33 pm

Tgt Ion: 49 Resp: 905

Ion	Ratio	Lower	Upper
49	100		
84	86.7	57.9	86.9
86	0.0	37.8	56.8#
51	0.0	20.1	41.7#

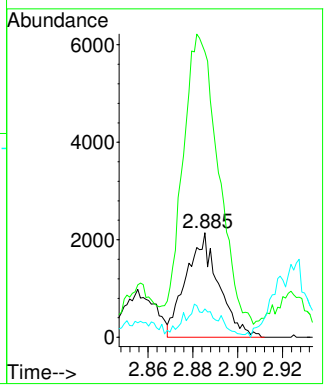


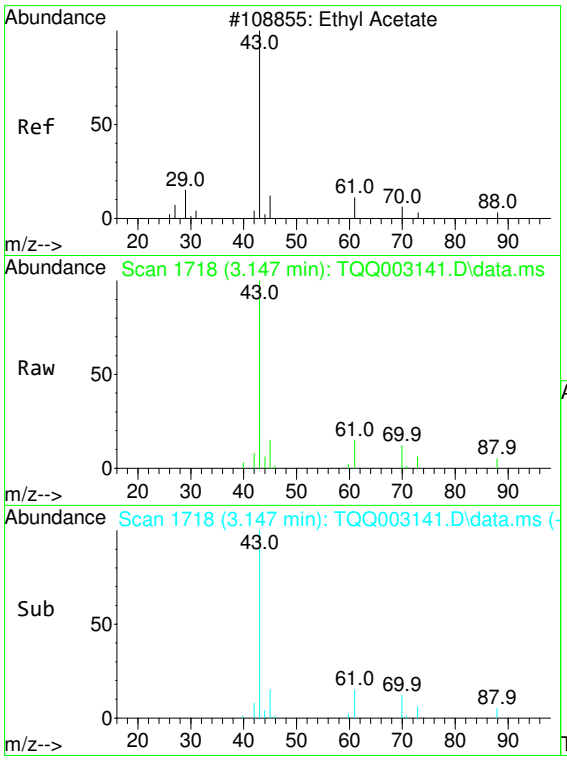


#26
2-Butanone
Concen: 0.52 ppbv
RT: 2.885 min Scan# 1500
Delta R.T. -0.006 min
Lab File: TQQ003141.D
Acq: 10 Jul 2026 08:33 pm

Tgt Ion: 72 Resp: 2153

Ion	Ratio	Lower	Upper
72	100		
43	306.7	459.1	688.7#
57	27.9	253.0	379.4#

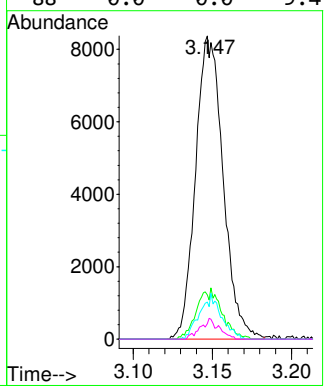


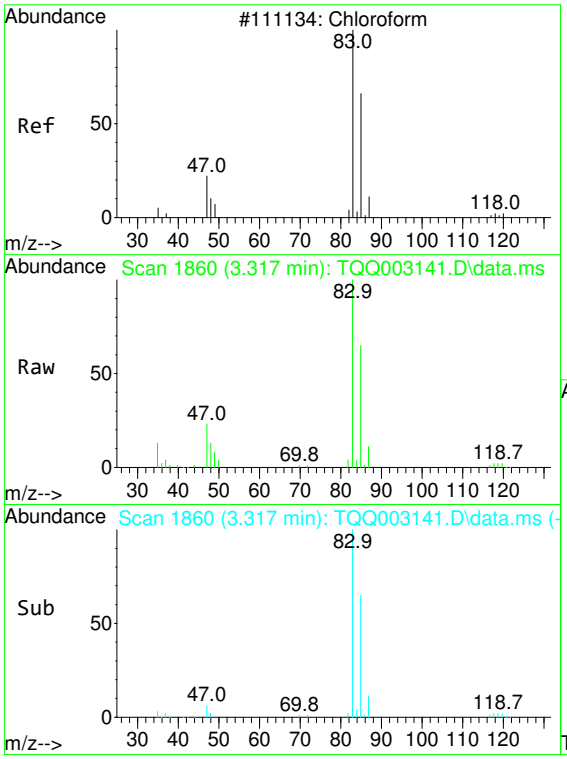


#29
Ethyl Acetate
Concen: 0.40 ppbv
RT: 3.147 min Scan# 1718
Delta R.T. -0.012 min
Lab File: TQQ003141.D
Acq: 10 Jul 2026 08:33 pm

Tgt Ion: 43 Resp: 10132

Ion	Ratio	Lower	Upper
43	100		
61	7.8	2.8	25.4
70	11.8	2.2	20.2
88	0.0	0.0	9.4

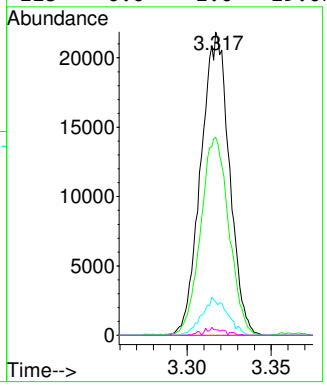


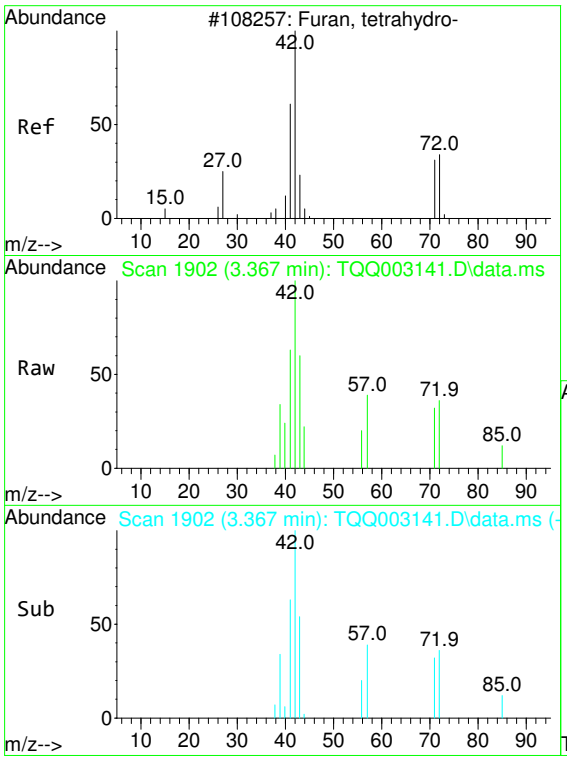


#30
Chloroform
Concen: 2.07 ppbv
RT: 3.317 min Scan# 1860
Delta R.T. -0.014 min
Lab File: TQQ003141.D
Acq: 10 Jul 2026 08:33 pm

Tgt Ion: 83 Resp: 25699

Ion	Ratio	Lower	Upper
83	100		
85	64.9	41.8	86.8
87	11.2	18.6	56.0#
118	0.0	1.0	19.0#

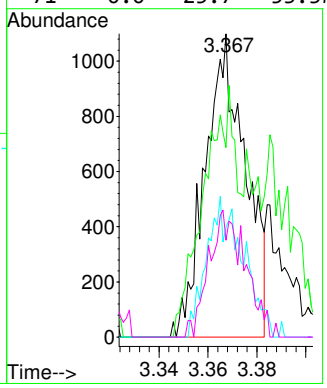


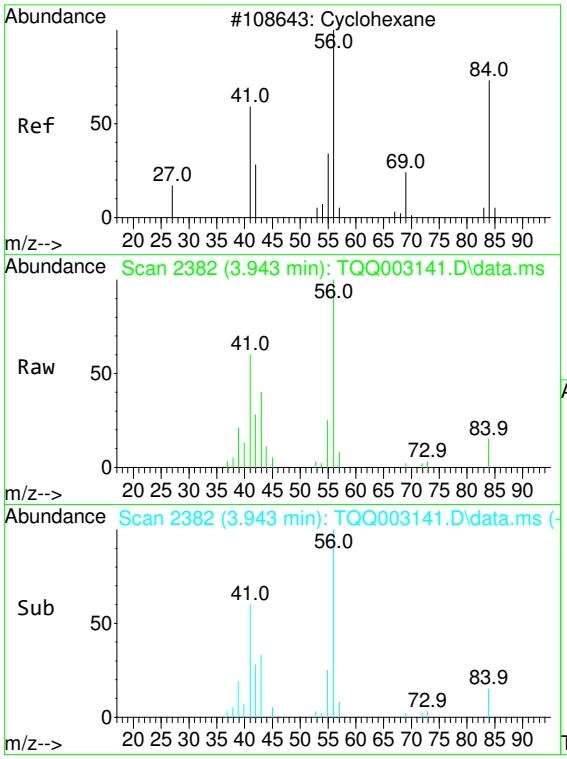


#31
Tetrahydrofuran
Concen: 0.15 ppbv
RT: 3.367 min Scan# 1902
Delta R.T. -0.005 min
Lab File: TQQ003141.D
Acq: 10 Jul 2026 08:33 pm

Tgt Ion: 42 Resp: 1246

Ion	Ratio	Lower	Upper
42	100		
41	47.6	46.6	70.0
72	0.0	27.4	56.8#
71	0.0	25.7	53.3#

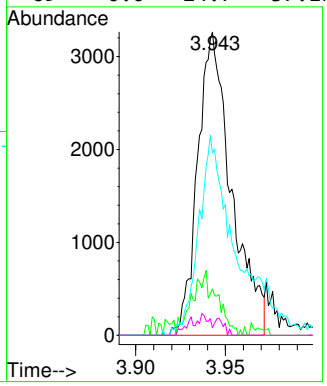


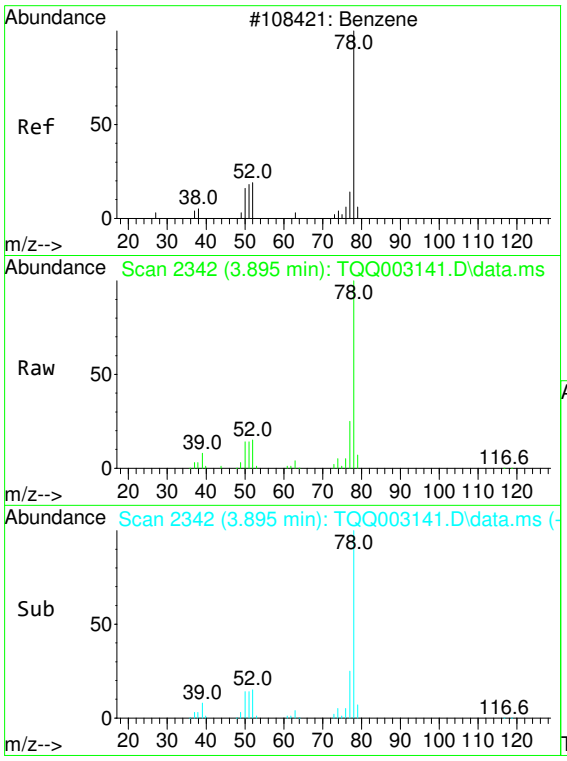


#34
Cyclohexane
Concen: 0.33 ppbv
RT: 3.943 min Scan# 2382
Delta R.T. -0.007 min
Lab File: TQQ003141.D
Acq: 10 Jul 2026 08:33 pm

Tgt Ion: 56 Resp: 4266

Ion	Ratio	Lower	Upper
56	100		
84	0.0	78.6	117.8#
41	63.1	45.8	68.6
69	0.0	24.7	37.1#

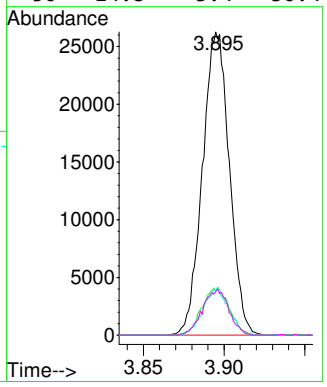


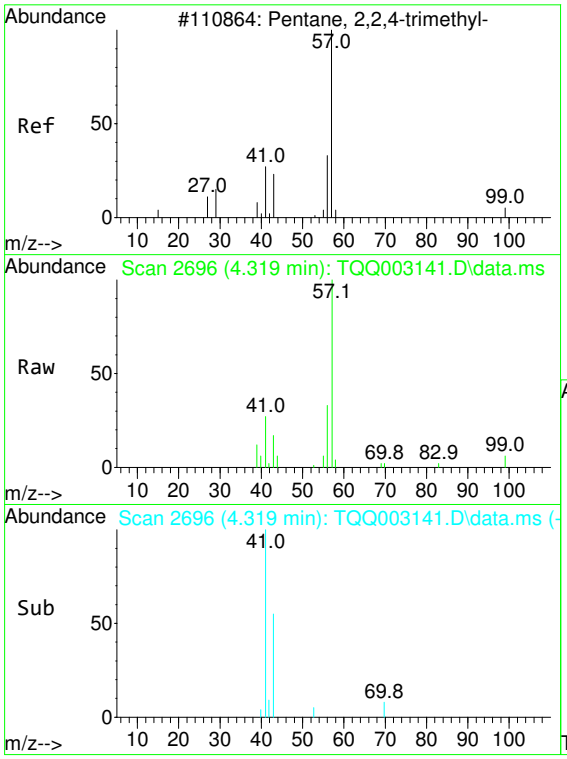


#35
Benzene
Concen: 1.17 ppbv
RT: 3.895 min Scan# 2342
Delta R.T. -0.013 min
Lab File: TQQ003141.D
Acq: 10 Jul 2026 08:33 pm

Tgt Ion: 78 Resp: 30400

Ion	Ratio	Lower	Upper
78	100		
51	15.9	3.9	35.1
52	14.7	3.6	32.0
50	14.8	3.4	30.4

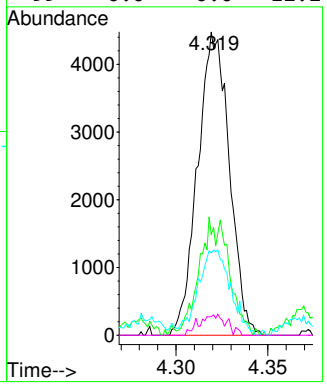


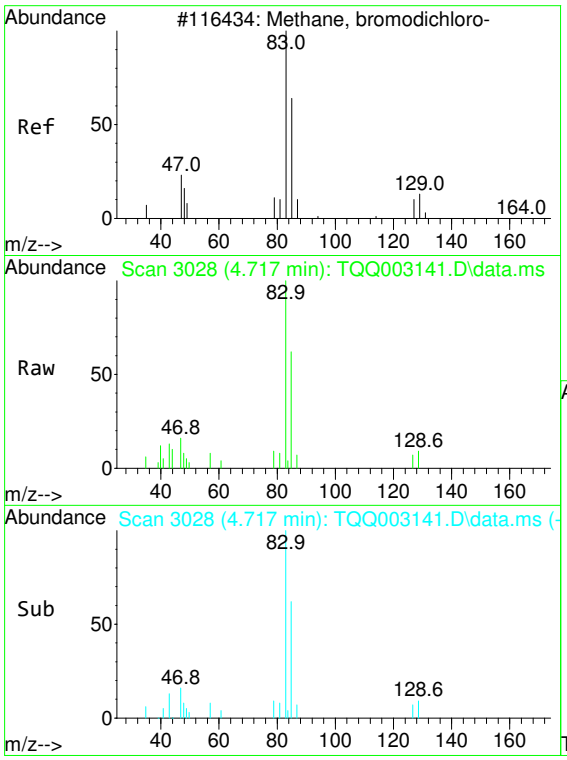


#37
2,2,4-Trimethylpentane
Concen: 0.15 ppbv
RT: 4.319 min Scan# 2696
Delta R.T. -0.012 min
Lab File: TQQ003141.D
Acq: 10 Jul 2026 08:33 pm

Tgt Ion: 57 Resp: 5373

Ion	Ratio	Lower	Upper
57	100		
56	18.8	16.7	50.0
41	28.8	10.6	42.4
99	0.0	0.0	12.2

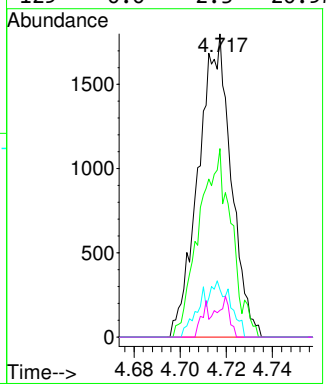


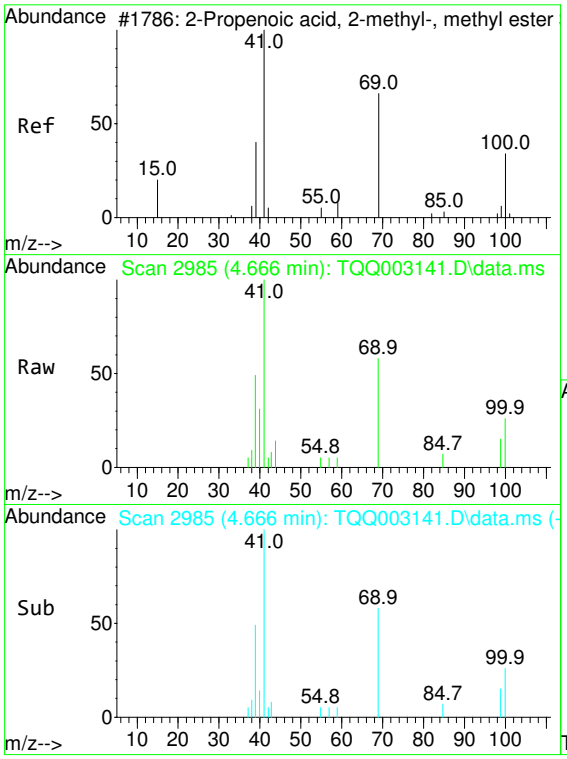


#42
Bromodichloromethane
Concen: 0.11 ppbv
RT: 4.717 min Scan# 3028
Delta R.T. -0.009 min
Lab File: TQQ003141.D
Acq: 10 Jul 2026 08:33 pm

Tgt Ion: 83 Resp: 1774

Ion	Ratio	Lower	Upper
83	100		
85	59.4	51.5	77.3
47	0.0	7.7	30.9#
129	0.0	2.3	20.9#

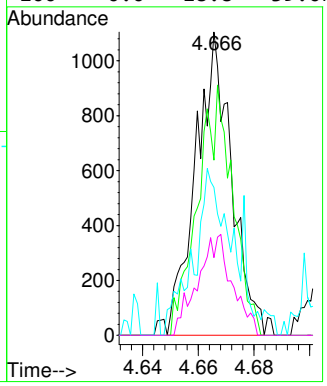


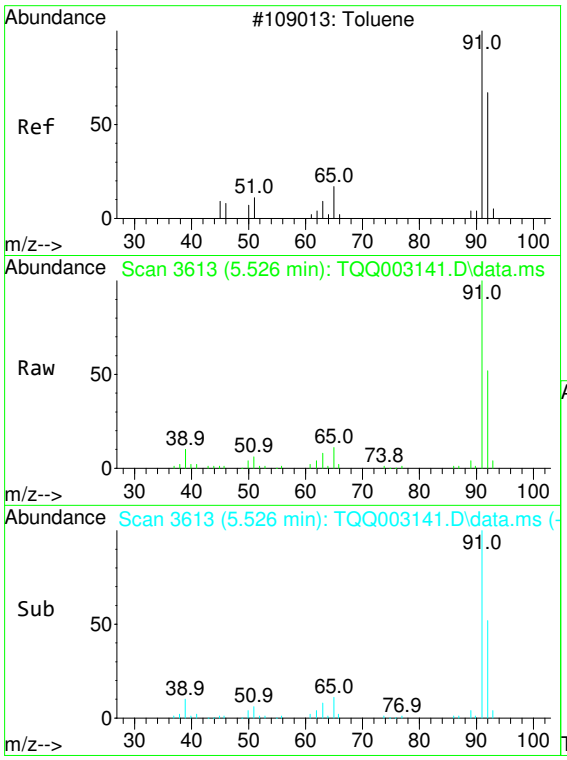


#44
Methyl Methacrylate
Concen: 0.10 ppbv
RT: 4.666 min Scan# 2985
Delta R.T. -0.009 min
Lab File: TQQ003141.D
Acq: 10 Jul 2026 08:33 pm

Tgt Ion: 41 Resp: 982

Ion	Ratio	Lower	Upper
41	100		
69	0.0	59.6	89.4#
39	52.9	40.7	61.1
100	0.0	18.8	39.0#

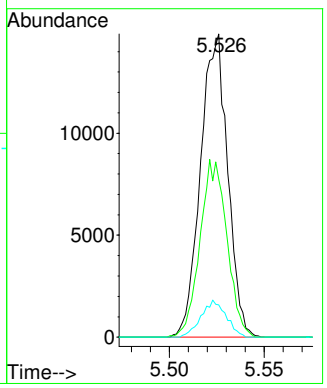


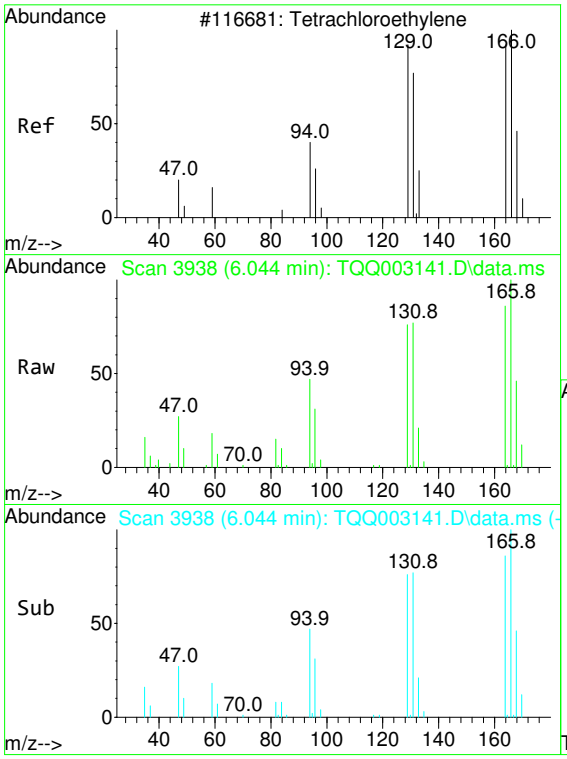


#48
Toluene
Concen: 0.54 ppbv
RT: 5.526 min Scan# 3613
Delta R.T. -0.005 min
Lab File: TQQ003141.D
Acq: 10 Jul 2026 08:33 pm

Tgt Ion: 91 Resp: 14844

Ion	Ratio	Lower	Upper
91	100		
92	57.9	47.1	70.7
65	11.3	2.3	21.1

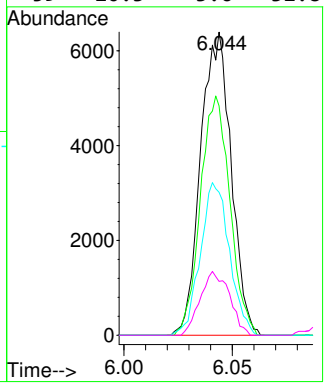


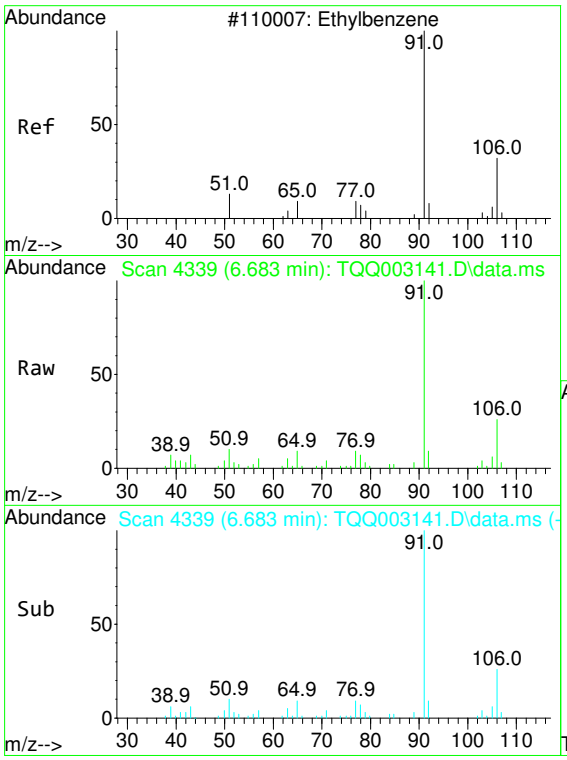


#54
Tetrachloroethylene
Concen: 0.50 ppbv
RT: 6.044 min Scan# 3938
Delta R.T. -0.005 min
Lab File: TQQ003141.D
Acq: 10 Jul 2026 08:33 pm

Tgt Ion:166 Resp: 6260

Ion	Ratio	Lower	Upper
166	100		
129	76.5	63.7	95.5
94	48.1	31.0	64.4
59	20.3	3.6	32.8

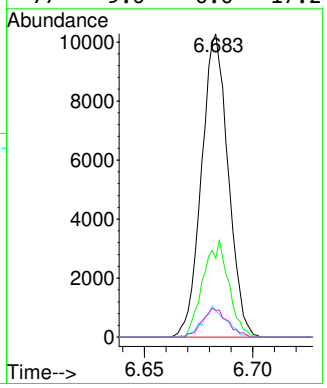


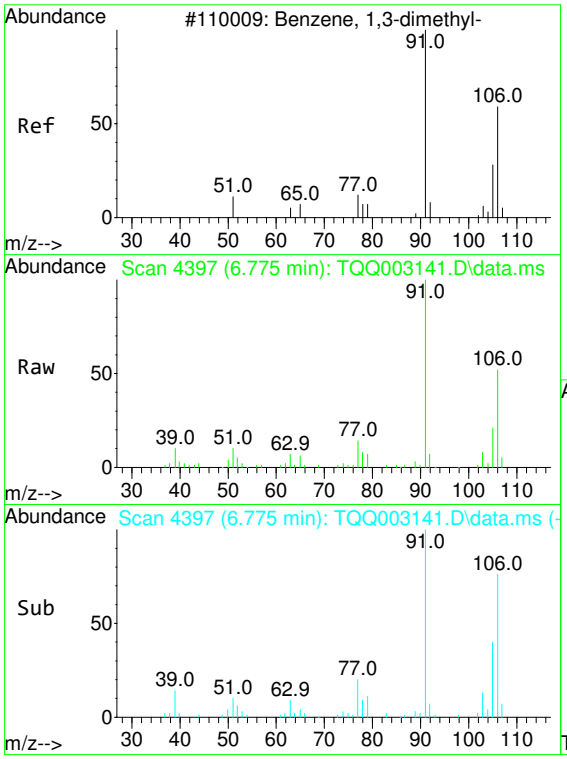


#58
Ethyl benzene
Concen: 0.23 ppbv
RT: 6.683 min Scan# 4339
Delta R.T. -0.003 min
Lab File: TQQ003141.D
Acq: 10 Jul 2026 08:33 pm

Tgt Ion: 91 Resp: 8764

Ion	Ratio	Lower	Upper
91	100		
106	30.8	21.5	44.6
65	9.0	0.0	17.2
77	9.0	0.0	17.2

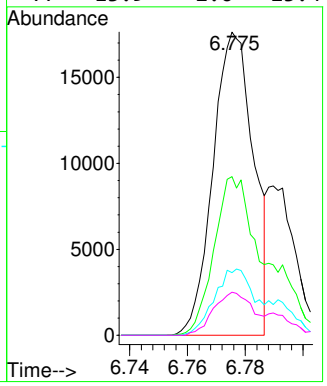


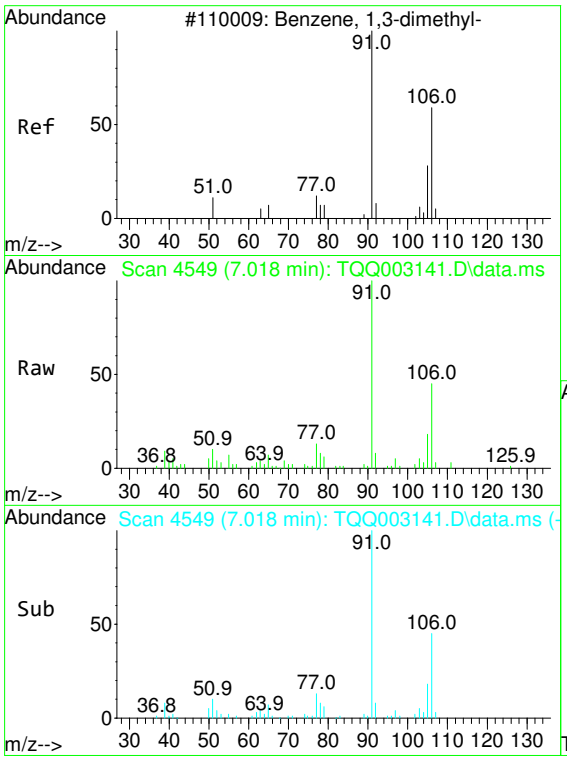


#59
p- & m- Xylenes
Concen: 1.11 ppbv
RT: 6.775 min Scan# 4397
Delta R.T. -0.005 min
Lab File: TQQ003141.D
Acq: 10 Jul 2026 08:33 pm

Tgt Ion: 91 Resp: 17119

Ion	Ratio	Lower	Upper
91	100		
106	66.7	40.8	61.2#
105	21.5	11.1	33.1
77	13.9	2.6	23.4

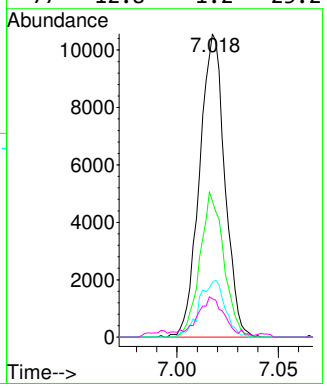


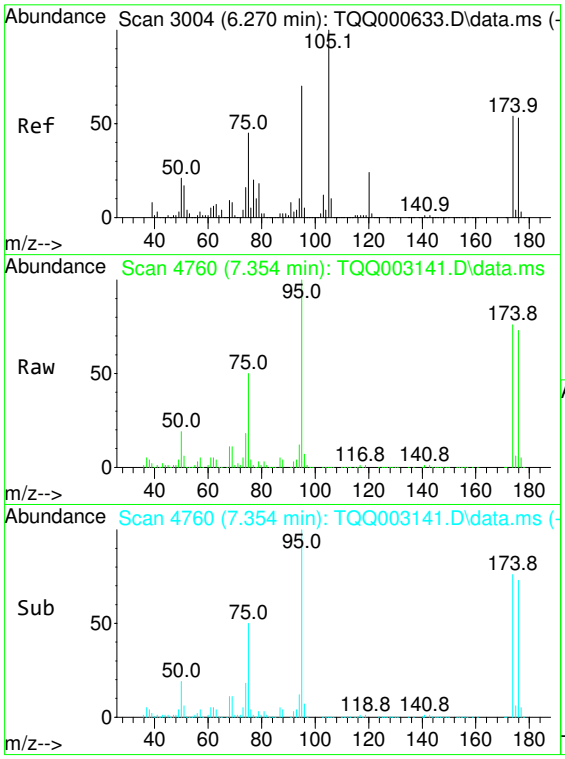


#62
o-Xylene
Concen: 0.28 ppbv
RT: 7.018 min Scan# 4549
Delta R.T. -0.003 min
Lab File: TQQ003141.D
Acq: 10 Jul 2026 08:33 pm

Tgt Ion: 91 Resp: 9168

Ion	Ratio	Lower	Upper
91	100		
106	45.2	38.6	57.8
105	19.1	3.8	34.0
77	12.8	1.2	23.2

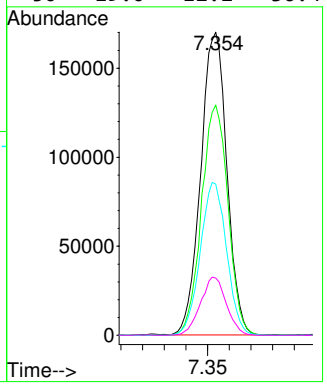


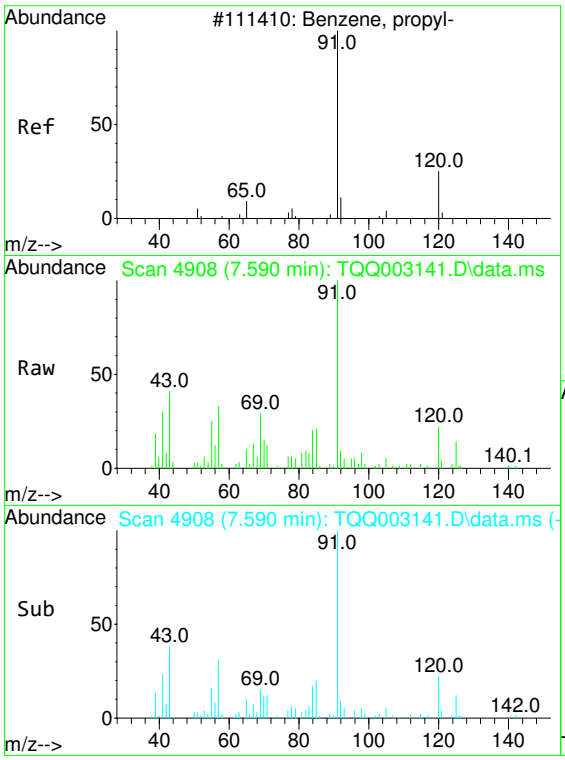


#64
p-Bromofluorobenzene
Concen: 9.53 ppbv
RT: 7.354 min Scan# 4760
Delta R.T. -0.001 min
Lab File: TQQ003141.D
Acq: 10 Jul 2026 08:33 pm

Tgt Ion: 95 Resp: 142589

Ion	Ratio	Lower	Upper
95	100		
174	77.2	58.4	87.6
75	50.8	38.6	58.0
50	19.0	12.2	36.4

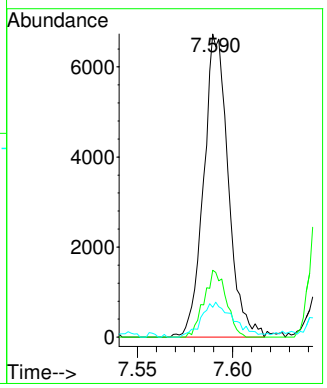


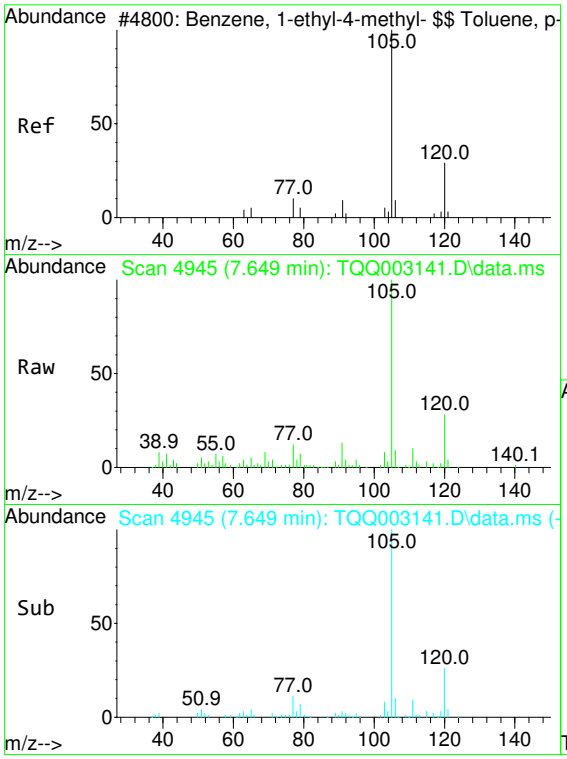


#66
n-Propylbenzene
Concen: 0.12 ppbv
RT: 7.590 min Scan# 4908
Delta R.T. -0.003 min
Lab File: TQQ003141.D
Acq: 10 Jul 2026 08:33 pm

Tgt Ion: 91 Resp: 6068

Ion	Ratio	Lower	Upper
91	100		
120	20.0	8.2	38.8
65	14.9	2.0	18.2

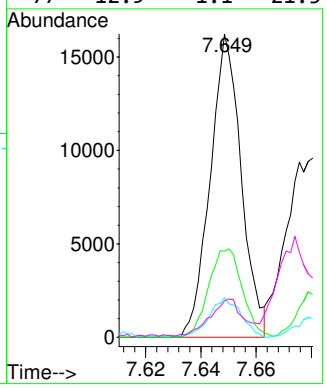


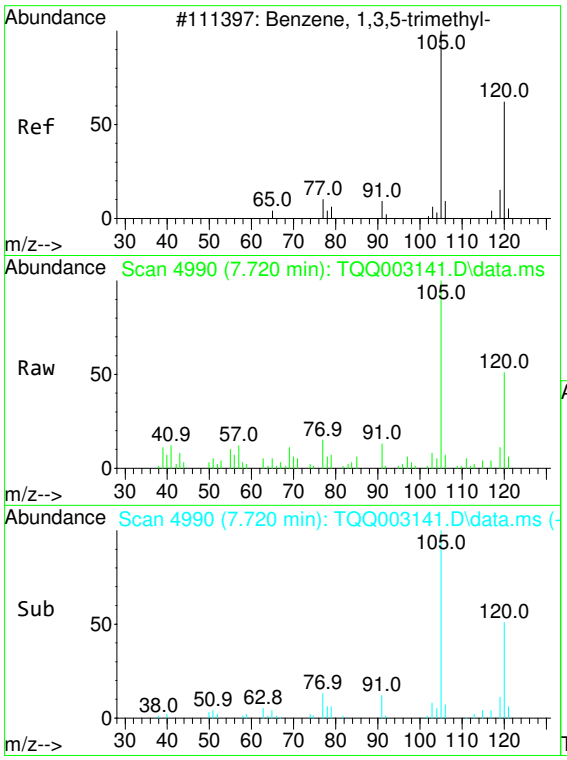


#67
p-Ethyltoluene
Concen: 0.30 ppbv
RT: 7.649 min Scan# 4945
Delta R.T. -0.033 min
Lab File: TQQ003141.D
Acq: 10 Jul 2026 08:33 pm

Tgt Ion:105 Resp: 12666

Ion	Ratio	Lower	Upper
105	100		
120	31.7	19.8	41.0
91	13.4	1.1	20.9
77	12.9	1.1	21.5

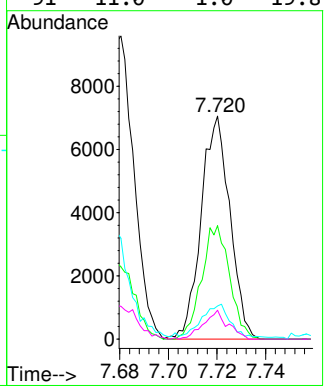


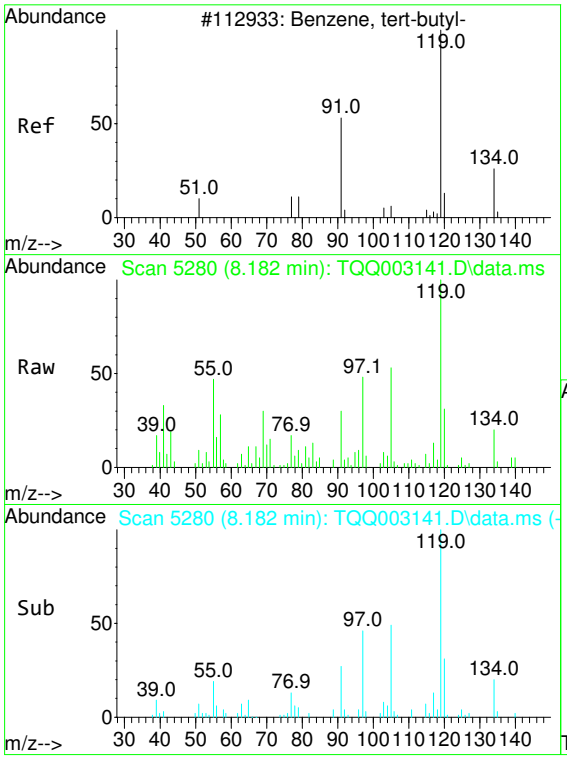


#68
1,3,5-Trimethylbenzene
Concen: 0.17 ppbv
RT: 7.720 min Scan# 4990
Delta R.T. -0.001 min
Lab File: TQQ003141.D
Acq: 10 Jul 2026 08:33 pm

Tgt Ion:105 Resp: 5808

Ion	Ratio	Lower	Upper
105	100		
120	49.6	39.9	59.9
77	14.2	1.3	23.9
91	11.0	1.0	19.8

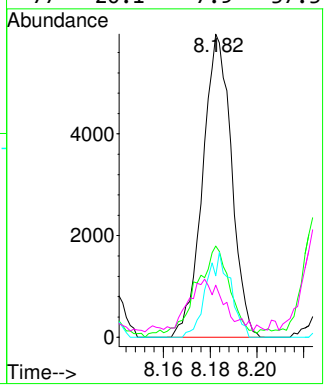


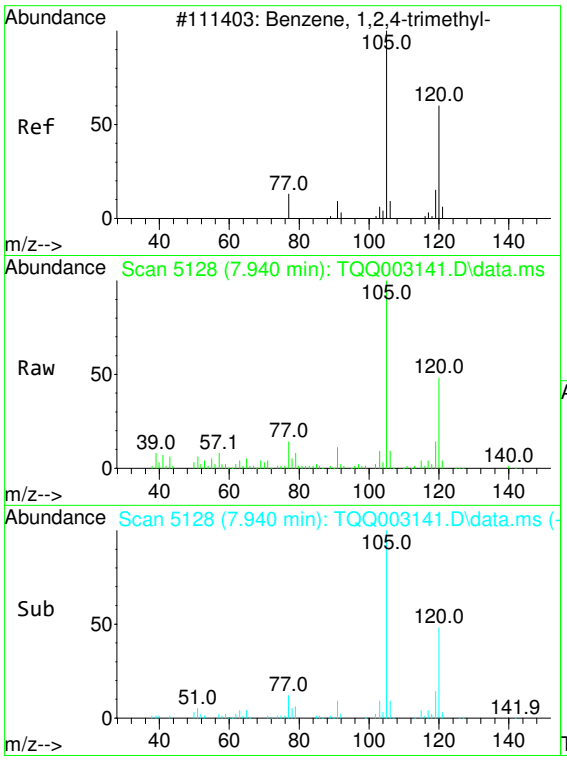


#69
tert-Butylbenzene
Concen: 0.12 ppbv
RT: 8.182 min Scan# 5280
Delta R.T. -0.001 min
Lab File: TQQ003141.D
Acq: 10 Jul 2026 08:33 pm

Tgt Ion:119 Resp: 5105

Ion	Ratio	Lower	Upper
119	100		
91	36.3	55.0	82.4#
134	23.9	7.9	37.1
77	20.1	7.9	37.3

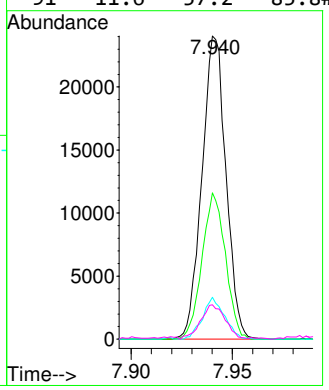


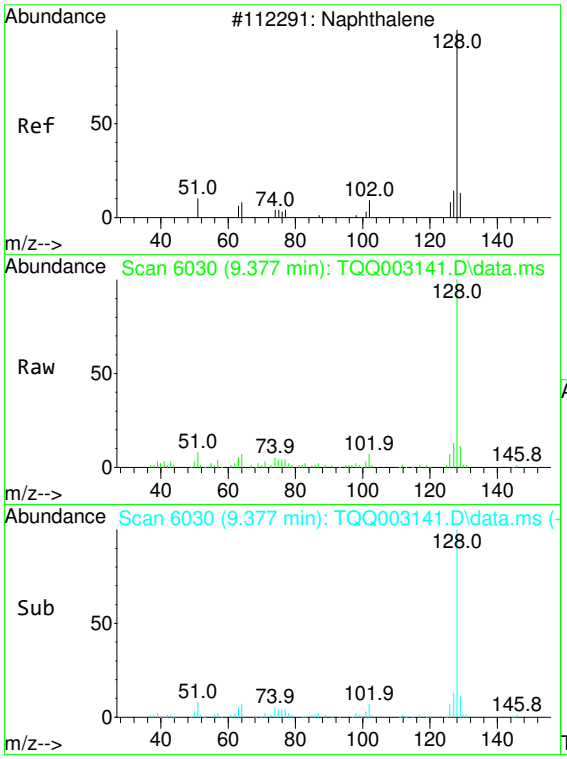


#70
1,2,4-Trimethylbenzene
Concen: 0.55 ppbv
RT: 7.940 min Scan# 5128
Delta R.T. -0.003 min
Lab File: TQQ003141.D
Acq: 10 Jul 2026 08:33 pm

Tgt Ion:105 Resp: 19834

Ion	Ratio	Lower	Upper
105	100		
120	47.0	44.9	67.3
119	12.6	83.3	124.9#
91	11.6	57.2	85.8#

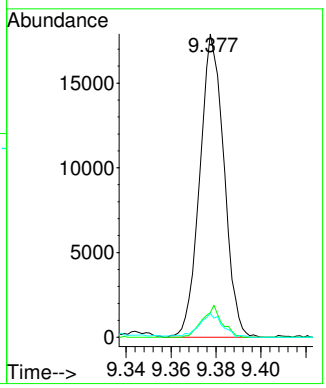




#79
Naphthalene
Concen: 0.23 ppbv
RT: 9.377 min Scan# 6030
Delta R.T. -0.001 min
Lab File: TQQ003141.D
Acq: 10 Jul 2026 08:33 pm

Tgt Ion:128 Resp: 13316

Ion	Ratio	Lower	Upper
128	100		
102	8.4	0.0	16.8
51	7.7	0.0	14.4



Sample Information

Client Sample ID: **IA-8 20260708** **Sample ID:** **26G0459-02**

Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
26G0459	152 Graham Avenue Brooklyn, NY 240052	Indoor Ambient Air	July 8, 2026 12:27 pm	07/08/2026

Analyzed by: **ALS Environmental - Queens**

Volatile Organic Compounds in Air by GC/MS

Sample Prepared by Method: EPA TO15 PREP

Results Reported to MDL

CAS No.	Parameter	Result	Lab Qualifier	CLP Flag	Units	RL	MDL	Dilution	Reference Method	Prepared	Analyzed Date	By
540-84-1	^2,2,4-Trimethylpentane	ND		U	ug/m³	0.22	0.22	0.938	EPA TO-15	7/9/26 8:00	7/10/26 21:20	YR
91-20-3	**^Naphthalene**	0.93		D	ug/m³	4.9	0.34	0.938	EPA TO-15	7/9/26 8:00	7/10/26 21:20	YR
630-20-6	1,1,1,2-Tetrachloroethane	ND		U	ug/m³	0.64	0.20	0.938	EPA TO-15	7/9/26 8:00	7/10/26 21:20	YR
71-55-6	1,1,1-Trichloroethane	ND		U	ug/m³	0.51	0.18	0.938	EPA TO-15	7/9/26 8:00	7/10/26 21:20	YR
79-34-5	1,1,2,2-Tetrachloroethane	ND		U	ug/m³	0.64	0.18	0.938	EPA TO-15	7/9/26 8:00	7/10/26 21:20	YR
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		U	ug/m³	0.72	0.26	0.938	EPA TO-15	7/9/26 8:00	7/10/26 21:20	YR
79-00-5	1,1,2-Trichloroethane	ND		U	ug/m³	0.51	0.18	0.938	EPA TO-15	7/9/26 8:00	7/10/26 21:20	YR
75-34-3	1,1-Dichloroethane	ND		U	ug/m³	0.38	0.15	0.938	EPA TO-15	7/9/26 8:00	7/10/26 21:20	YR
75-35-4	1,1-Dichloroethylene	ND		U	ug/m³	0.19	0.16	0.938	EPA TO-15	7/9/26 8:00	7/10/26 21:20	YR
120-82-1	1,2,4-Trichlorobenzene	ND		U	ug/m³	35	0.27	0.938	EPA TO-15	7/9/26 8:00	7/10/26 21:20	YR
95-63-6	**1,2,4-Trimethylbenzene**	3.3		D	ug/m³	0.46	0.15	0.938	EPA TO-15	7/9/26 8:00	7/10/26 21:20	YR
106-93-4	1,2-Dibromoethane	ND		U	ug/m³	0.72	0.23	0.938	EPA TO-15	7/9/26 8:00	7/10/26 21:20	YR
95-50-1	1,2-Dichlorobenzene	ND		U	ug/m³	0.56	0.17	0.938	EPA TO-15	7/9/26 8:00	7/10/26 21:20	YR
107-06-2	1,2-Dichloroethane	ND		U	ug/m³	0.38	0.17	0.938	EPA TO-15	7/9/26 8:00	7/10/26 21:20	YR
78-87-5	1,2-Dichloropropane	ND		U	ug/m³	0.43	0.15	0.938	EPA TO-15	7/9/26 8:00	7/10/26 21:20	YR
76-14-2	1,2-Dichlorotetrafluoroethane	ND		U	ug/m³	0.66	0.33	0.938	EPA TO-15	7/9/26 8:00	7/10/26 21:20	YR
108-67-8	**1,3,5-Trimethylbenzene**	0.97		D	ug/m³	0.46	0.071	0.938	EPA TO-15	7/9/26 8:00	7/10/26 21:20	YR
106-99-0	**1,3-Butadiene**	0.25		D	ug/m³	0.62	0.064	0.938	EPA TO-15	7/9/26 8:00	7/10/26 21:20	YR
541-73-1	1,3-Dichlorobenzene	ND		U	ug/m³	0.56	0.16	0.938	EPA TO-15	7/9/26 8:00	7/10/26 21:20	YR
142-28-9	1,3-Dichloropropane	ND		U	ug/m³	0.43	0.13	0.938	EPA TO-15	7/9/26 8:00	7/10/26 21:20	YR
106-46-7	1,4-Dichlorobenzene	ND		U	ug/m³	0.56	0.13	0.938	EPA TO-15	7/9/26 8:00	7/10/26 21:20	YR
123-91-1	1,4-Dioxane	ND		U	ug/m³	1.7	0.35	0.938	EPA TO-15	7/9/26 8:00	7/10/26 21:20	YR
78-93-3	**2-Butanone**	1.2		D	ug/m³	14	0.47	0.938	EPA TO-15	7/9/26 8:00	7/10/26 21:20	YR
591-78-6	2-Hexanone	ND		U	ug/m³	0.77	0.21	0.938	EPA TO-15	7/9/26 8:00	7/10/26 21:20	YR
107-05-1	3-Chloropropene	ND		U	ug/m³	1.5	0.12	0.938	EPA TO-15	7/9/26 8:00	7/10/26 21:20	YR
108-10-1	4-Methyl-2-pentanone	ND		U	ug/m³	0.38	0.17	0.938	EPA TO-15	7/9/26 8:00	7/10/26 21:20	YR
67-64-1	**Acetone**	25		D	ug/m³	11	1.2	0.938	EPA TO-15	7/9/26 8:00	7/10/26 21:20	YR
107-13-1	Acrylonitrile	ND		U	ug/m³	10	1.9	0.938	EPA TO-15	7/9/26 8:00	7/10/26 21:20	YR
71-43-2	**Benzene**	0.90		D	ug/m³	0.30	0.11	0.938	EPA TO-15	7/9/26 8:00	7/10/26 21:20	YR
100-44-7	Benzyl chloride	ND		U	ug/m³	12	0.15	0.938	EPA TO-15	7/9/26 8:00	7/10/26 21:20	YR
75-27-4	Bromodichloromethane	ND		U	ug/m³	0.63	0.19	0.938	EPA TO-15	7/9/26 8:00	7/10/26 21:20	YR
75-25-2	Bromoform	ND		U	ug/m³	0.97	0.41	0.938	EPA TO-15	7/9/26 8:00	7/10/26 21:20	YR
74-83-9	Bromomethane	ND		U	ug/m³	0.36	0.16	0.938	EPA TO-15	7/9/26 8:00	7/10/26 21:20	YR

Sample Information

Client Sample ID: **IA-8 20260708** **Sample ID:** **26G0459-02**

Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
26G0459	152 Graham Avenue Brooklyn, NY 240052	Indoor Ambient Air	July 8, 2026 12:27 pm	07/08/2026

Analyzed by: **ALS Environmental - Queens**

Volatile Organic Compounds in Air by GC/MS

Sample Prepared by Method: EPA TO15 PREP

Results Reported to MDL

CAS No.	Parameter	Result	Lab Qualifier	CLP Flag	Units	RL	MDL	Dilution	Reference Method	Prepared	Analyzed Date	By
75-15-0	Carbon disulfide	ND		U	ug/m³	0.29	0.075	0.938	EPA TO-15	7/9/26 8:00	7/10/26 21:20	YR
56-23-5	Carbon tetrachloride	ND		U	ug/m³	0.18	0.18	0.938	EPA TO-15	7/9/26 8:00	7/10/26 21:20	YR
108-90-7	Chlorobenzene	ND		U	ug/m³	0.43	0.16	0.938	EPA TO-15	7/9/26 8:00	7/10/26 21:20	YR
75-00-3	Chloroethane	ND		U	ug/m³	0.25	0.14	0.938	EPA TO-15	7/9/26 8:00	7/10/26 21:20	YR
67-66-3	**Chloroform**	2.2		D	ug/m³	0.46	0.13	0.938	EPA TO-15	7/9/26 8:00	7/10/26 21:20	YR
74-87-3	**Chloromethane**	0.97		D	ug/m³	0.19	0.14	0.938	EPA TO-15	7/9/26 8:00	7/10/26 21:20	YR
156-59-2	cis-1,2-Dichloroethylene	ND		U	ug/m³	0.19	0.096	0.938	EPA TO-15	7/9/26 8:00	7/10/26 21:20	YR
10061-01-5	cis-1,3-Dichloropropylene	ND		U	ug/m³	0.43	0.17	0.938	EPA TO-15	7/9/26 8:00	7/10/26 21:20	YR
110-82-7	**Cyclohexane**	0.65		D	ug/m³	0.32	0.23	0.938	EPA TO-15	7/9/26 8:00	7/10/26 21:20	YR
124-48-1	Dibromochloromethane	ND		U	ug/m³	0.80	0.32	0.938	EPA TO-15	7/9/26 8:00	7/10/26 21:20	YR
75-71-8	**Dichlorodifluoromethane**	1.6		D	ug/m³	0.46	0.26	0.938	EPA TO-15	7/9/26 8:00	7/10/26 21:20	YR
141-78-6	**Ethyl acetate**	1.2	TO-CCV	D	ug/m³	17	0.20	0.938	EPA TO-15	7/9/26 8:00	7/10/26 21:20	YR
100-41-4	**Ethyl Benzene**	0.94		D	ug/m³	0.41	0.14	0.938	EPA TO-15	7/9/26 8:00	7/10/26 21:20	YR
87-68-3	Hexachlorobutadiene	ND		U	ug/m³	1.0	0.38	0.938	EPA TO-15	7/9/26 8:00	7/10/26 21:20	YR
67-63-0	**Isopropanol**	15		D	ug/m³	1.4	0.055	0.938	EPA TO-15	7/9/26 8:00	7/10/26 21:20	YR
80-62-6	**Methyl Methacrylate**	0.58		D	ug/m³	0.38	0.24	0.938	EPA TO-15	7/9/26 8:00	7/10/26 21:20	YR
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		U	ug/m³	0.34	0.10	0.938	EPA TO-15	7/9/26 8:00	7/10/26 21:20	YR
75-09-2	**Methylene chloride**	0.33		D	ug/m³	2.0	0.11	0.938	EPA TO-15	7/9/26 8:00	7/10/26 21:20	YR
142-82-5	n-Heptane	ND		U	ug/m³	0.38	0.15	0.938	EPA TO-15	7/9/26 8:00	7/10/26 21:20	YR
110-54-3	**n-Hexane**	0.40		D	ug/m³	0.33	0.10	0.938	EPA TO-15	7/9/26 8:00	7/10/26 21:20	YR
95-47-6	**o-Xylene**	1.2		D	ug/m³	0.41	0.14	0.938	EPA TO-15	7/9/26 8:00	7/10/26 21:20	YR
179601-23-1	**p- & m- Xylenes**	4.9	TO-MPX	D	ug/m³	0.81	0.21	0.938	EPA TO-15	7/9/26 8:00	7/10/26 21:20	YR
622-96-8	**p-Ethyltoluene**	1.9		D	ug/m³	0.46	0.16	0.938	EPA TO-15	7/9/26 8:00	7/10/26 21:20	YR
115-07-1	Propylene	ND	TO-CCV, TO-LCS-L	U	ug/m³	0.16	0.092	0.938	EPA TO-15	7/9/26 8:00	7/10/26 21:20	YR
100-42-5	Styrene	ND		U	ug/m³	0.40	0.12	0.938	EPA TO-15	7/9/26 8:00	7/10/26 21:20	YR
127-18-4	**Tetrachloroethylene**	2.8		D	ug/m³	0.64	0.15	0.938	EPA TO-15	7/9/26 8:00	7/10/26 21:20	YR
109-99-9	Tetrahydrofuran	ND		U	ug/m³	0.55	0.093	0.938	EPA TO-15	7/9/26 8:00	7/10/26 21:20	YR
108-88-3	**Toluene**	1.7		D	ug/m³	0.35	0.14	0.938	EPA TO-15	7/9/26 8:00	7/10/26 21:20	YR
156-60-5	trans-1,2-Dichloroethylene	ND		U	ug/m³	0.37	0.089	0.938	EPA TO-15	7/9/26 8:00	7/10/26 21:20	YR
10061-02-6	trans-1,3-Dichloropropylene	ND		U	ug/m³	0.43	0.17	0.938	EPA TO-15	7/9/26 8:00	7/10/26 21:20	YR
79-01-6	Trichloroethylene	ND		U	ug/m³	0.15	0.15	0.938	EPA TO-15	7/9/26 8:00	7/10/26 21:20	YR
75-69-4	**Trichlorofluoromethane (Freon 11)**	1.1		D	ug/m³	0.53	0.19	0.938	EPA TO-15	7/9/26 8:00	7/10/26 21:20	YR
108-05-4	Vinyl acetate	ND	TO-LCS-L	U	ug/m³	0.33	0.17	0.938	EPA TO-15	7/9/26 8:00	7/10/26 21:20	YR

Sample Information

Client Sample ID: **IA-8 20260708** **Sample ID:** **26G0459-02**

Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
26G0459	152 Graham Avenue Brooklyn, NY 240052	Indoor Ambient Air	July 8, 2026 12:27 pm	07/08/2026

Analyzed by: **ALS Environmental - Queens**

Volatile Organic Compounds in Air by GC/MS

Sample Prepared by Method: EPA TO15 PREP

Results Reported to MDL

CAS No.	Parameter	Result	Lab Qualifier	CLP Flag	Units	RL	MDL	Dilution	Reference Method	Prepared	Analyzed Date	By
593-60-2	Vinyl bromide	ND		U	ug/m³	0.41	0.14	0.938	EPA TO-15	7/9/26 8:00	7/10/26 21:20	YR
75-01-4	Vinyl Chloride	ND		U	ug/m³	0.12	0.096	0.938	EPA TO-15	7/9/26 8:00	7/10/26 21:20	YR

Data Path : C:\MassHunter\GCMS\1\data\2026\7-JULY\071026\
Data File : TQQ003142.D
Acq On : 10 Jul 2026 09:20 pm
Operator : YR
Sample : 26G0459-02
Misc : .533X
ALS Vial : 1 Sample Multiplier: 0.938

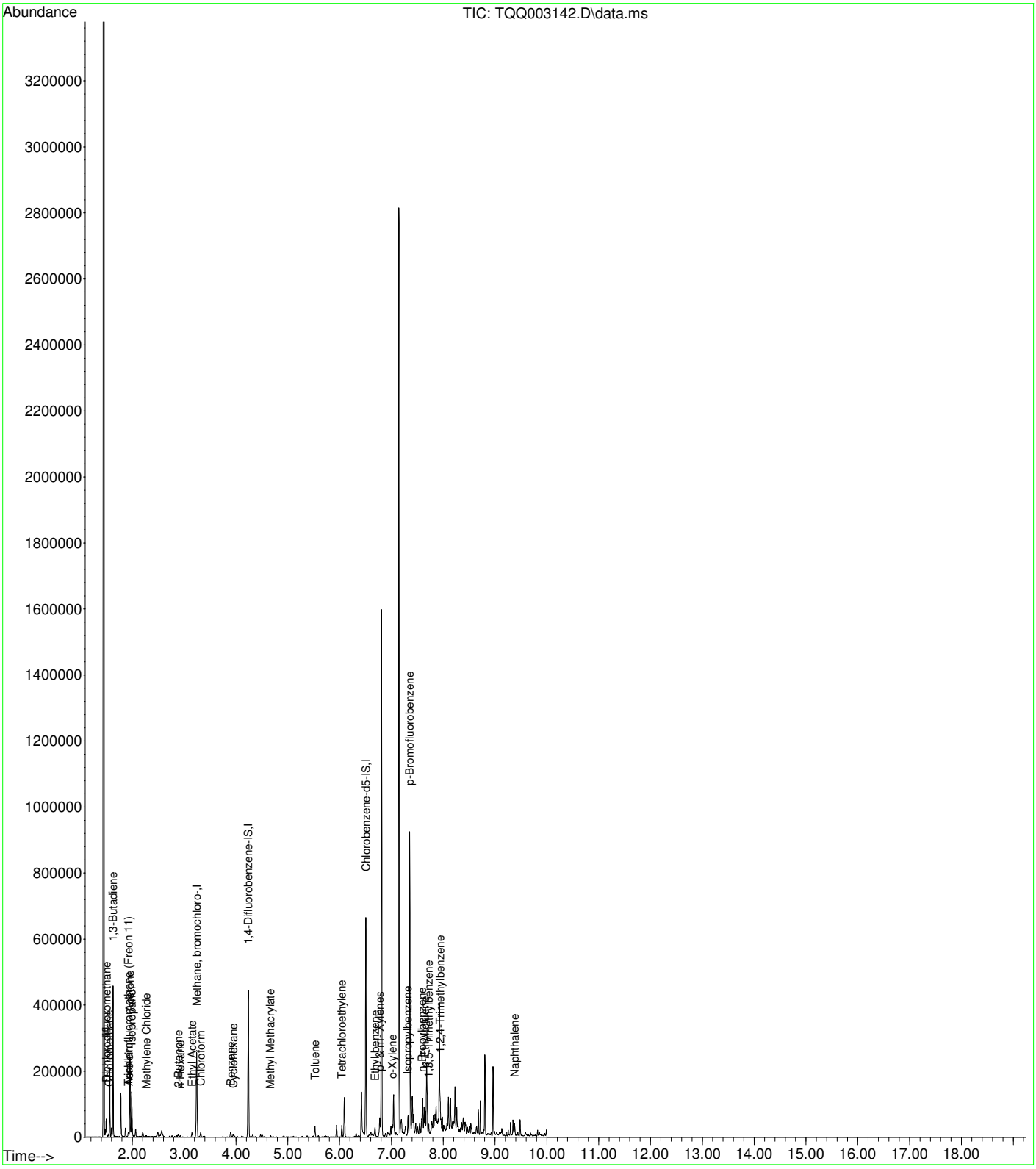
Quant Time: Jul 12 11:49:38 2026
Quant Method : C:\MassHunter\GCMS\1\methods\QA4 01JUNE2026(updated070726).m
Quant Title : TO-15
QLast Update : Tue Jul 07 14:14:35 2026
Response via : Initial Calibration

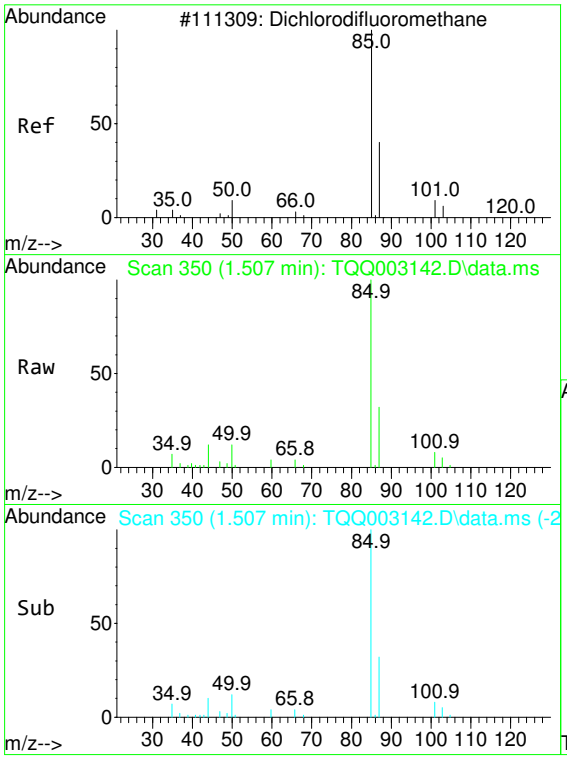
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Methane, bromochloro-	3.241	130	56523	10.00	ppbv		# 0.00
38) 1,4-Difluorobenzene-IS	4.238	114	211329	10.00	ppbv		-0.01
55) Chlorobenzene-d5-IS	6.508	117	204140	10.00	ppbv		0.00
Target Compounds							Qvalue
3) Dichlorodifluoromethane	1.507	85	6087	0.34	ppbv		99
5) Chloromethane	1.551	50	3571	0.50	ppbv	#	79
7) 1,3-Butadiene	1.629	54	615	0.12	ppbv	#	1
12) Trichlorofluoromethane...	1.922	101	3675	0.21	ppbv	#	92
13) Acrolein	1.932	56	789	0.38	ppbv	#	73
14) Acetone	1.955	58	42418	11.30	ppbv		59
15) Isopropanol	1.988	45	72291	6.34	ppbv	#	41
19) Methylene Chloride	2.270	49	805	0.10	ppbv	#	57
26) 2-Butanone	2.887	72	1811	0.43	ppbv	#	1
27) n-Hexane	2.927	57	1440	0.12	ppbv	#	77
29) Ethyl Acetate	3.152	43	9214	0.35	ppbv	#	96
30) Chloroform	3.319	83	6245	0.49	ppbv	#	81
34) Cyclohexane	3.945	56	2694	0.20	ppbv	#	27
35) Benzene	3.898	78	8043	0.30	ppbv		87
44) Methyl Methacrylate	4.663	41	1436m	0.15	ppbv		
48) Toluene	5.526	91	13485	0.48	ppbv		99
54) Tetrachloroethylene	6.044	166	5481	0.44	ppbv		98
58) Ethyl benzene	6.683	91	9092	0.23	ppbv	#	93
59) p- & m- Xylenes	6.775	91	19349	1.20	ppbv		98
62) o-Xylene	7.018	91	10013	0.29	ppbv		96
64) p-Bromofluorobenzene	7.354	95	149152	9.48	ppbv		93
65) Isopropylbenzene	7.316	105	1869	0.04	ppbv	#	52
66) n-Propylbenzene	7.591	91	7897	0.15	ppbv		93
67) p-Ethyltoluene	7.647	105	18644	0.42	ppbv		97
68) 1,3,5-Trimethylbenzene	7.719	105	7531	0.21	ppbv		98
70) 1,2,4-Trimethylbenzene	7.940	105	26995	0.72	ppbv	#	34
79) Naphthalene	9.377	128	11808	0.19	ppbv		98

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

Data Path : C:\MassHunter\GCMS\1\data\2026\7-JULY\071026\
Data File : TQQ003142.D
Acq On : 10 Jul 2026 09:20 pm
Operator : YR
Sample : 26G0459-02
Misc : .533X
ALS Vial : 1 Sample Multiplier: 0.938

Quant Time: Jul 12 11:49:38 2026
Quant Method : C:\MassHunter\GCMS\1\methods\QA4 01JUNE2026(updated070726).m
Quant Title : TO-15
QLast Update : Tue Jul 07 14:14:35 2026
Response via : Initial Calibration

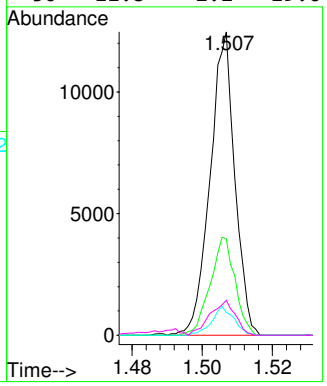


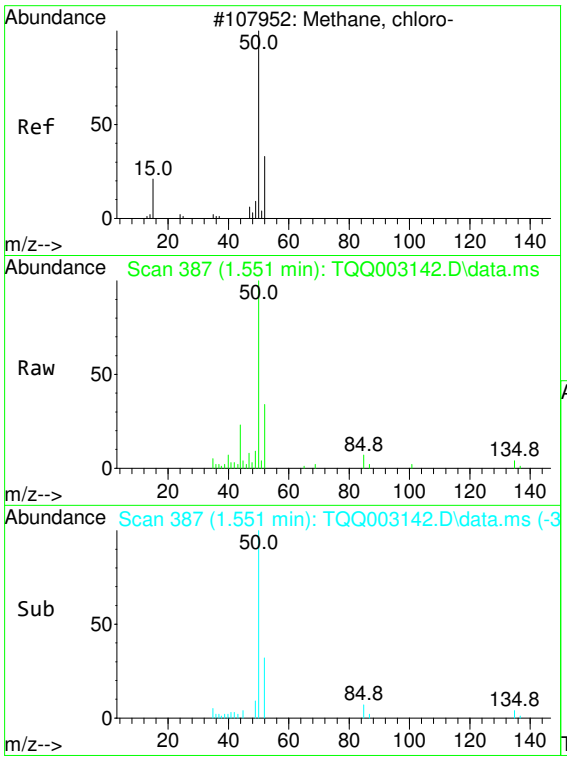


#3
Dichlorodifluoromethane
Concen: 0.34 ppbv
RT: 1.507 min Scan# 350
Delta R.T. 0.004 min
Lab File: TQQ003142.D
Acq: 10 Jul 2026 09:20 pm

Tgt Ion: 85 Resp: 6087

Ion	Ratio	Lower	Upper
85	100		
87	32.5	16.1	48.2
101	8.5	1.9	17.3
50	11.8	2.2	19.6

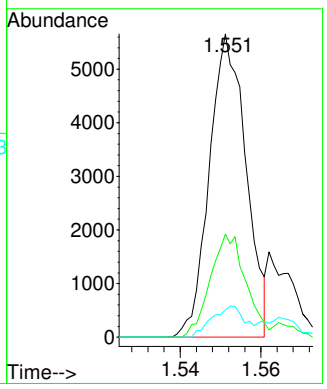


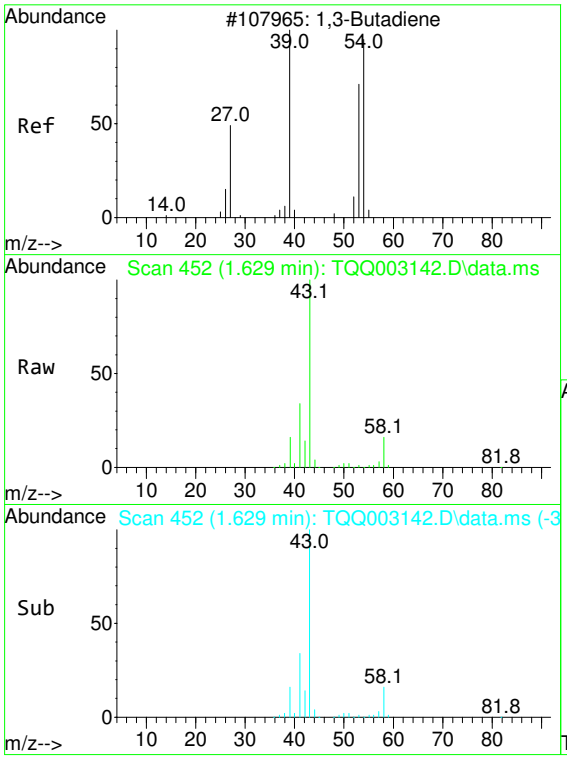


#5
Chloromethane
Concen: 0.50 ppbv
RT: 1.551 min Scan# 387
Delta R.T. -0.001 min
Lab File: TQQ003142.D
Acq: 10 Jul 2026 09:20 pm

Tgt Ion: 50 Resp: 3571

Ion	Ratio	Lower	Upper
50	100		
52	33.0	16.1	33.3
49	0.0	2.3	21.1#

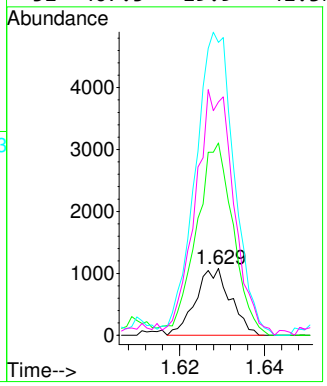


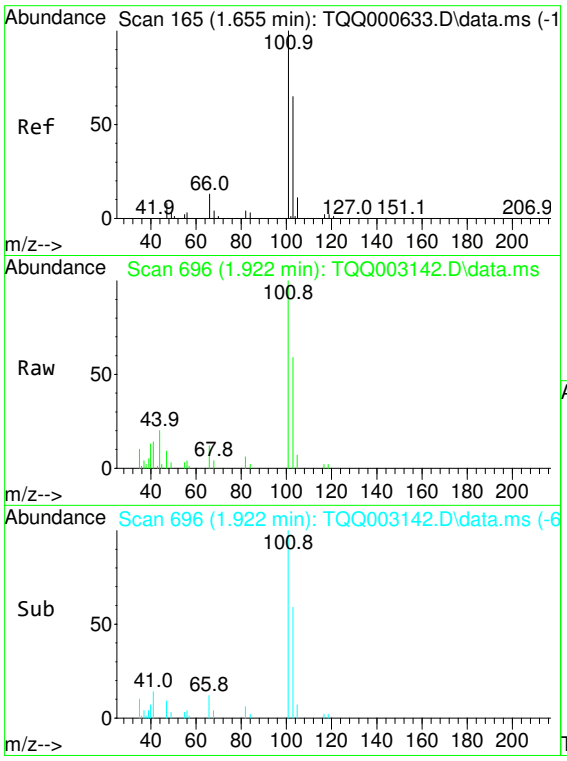


#7
1,3-Butadiene
Concen: 0.12 ppbv
RT: 1.629 min Scan# 452
Delta R.T. 0.003 min
Lab File: TQQ003142.D
Acq: 10 Jul 2026 09:20 pm

Tgt Ion: 54 Resp: 615

Ion	Ratio	Lower	Upper
54	100		
53	307.6	54.5	81.7#
50	511.1	23.3	48.3#
51	407.5	19.9	41.3#

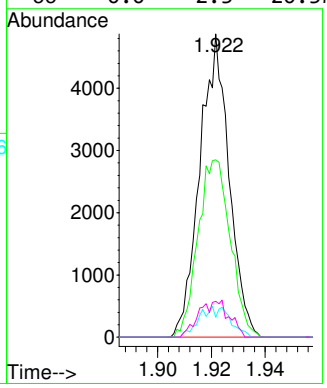


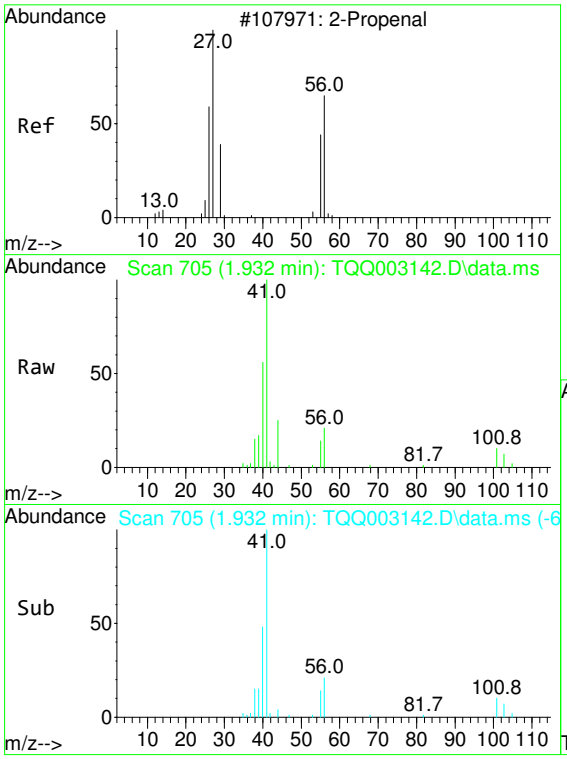


#12
Trichlorofluoromethane (Freon 11)
Concen: 0.21 ppbv
RT: 1.922 min Scan# 696
Delta R.T. 0.001 min
Lab File: TQQ003142.D
Acq: 10 Jul 2026 09:20 pm

Tgt Ion:101 Resp: 3675

Ion	Ratio	Lower	Upper
101	100		
103	64.8	52.2	78.4
105	0.0	2.1	19.3#
66	0.0	2.3	20.3#

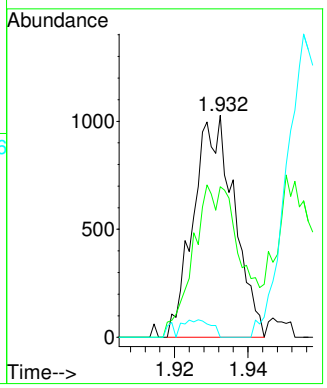


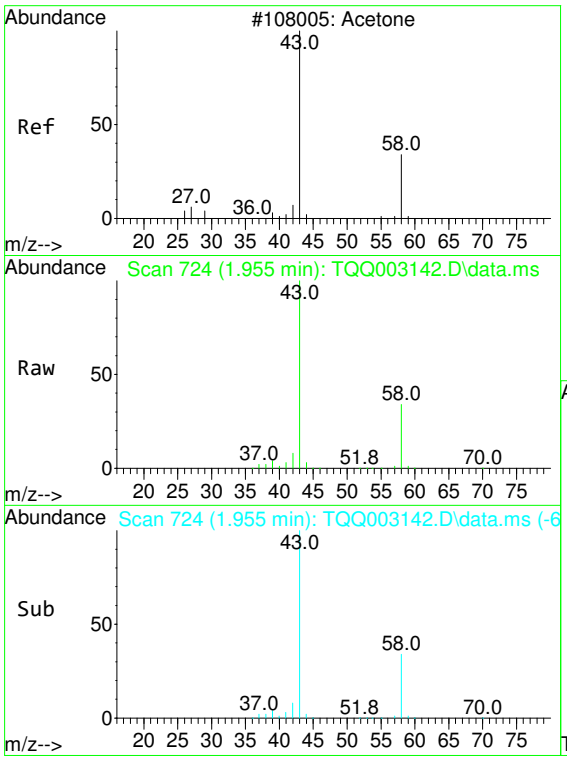


#13
Acrolein
Concen: 0.38 ppbv
RT: 1.932 min Scan# 705
Delta R.T. 0.004 min
Lab File: TQQ003142.D
Acq: 10 Jul 2026 09:20 pm

Tgt Ion: 56 Resp: 789

Ion	Ratio	Lower	Upper
56	100		
55	77.7	60.6	91.0
57	140.1	0.0	9.8#

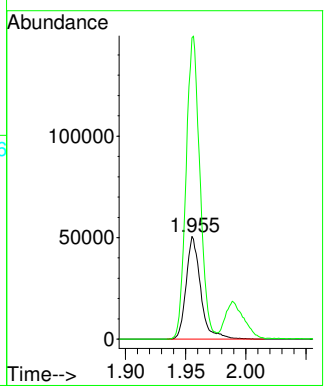


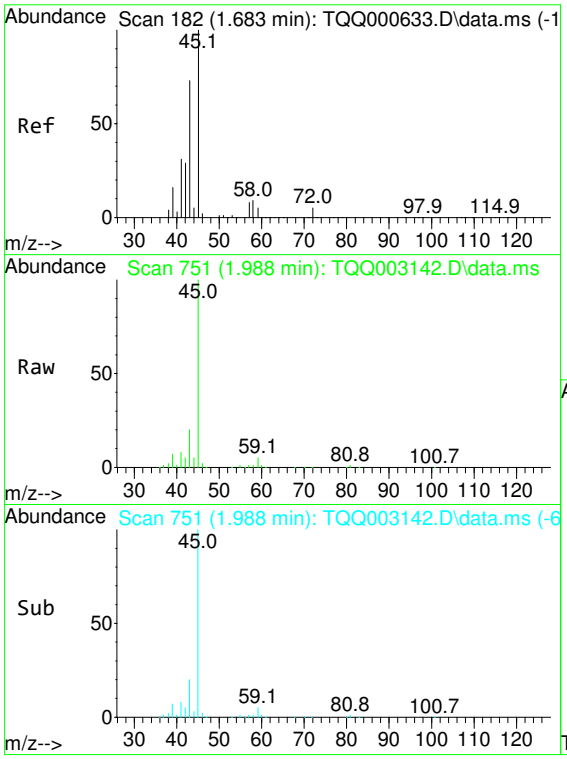


#14
Acetone
Concen: 11.30 ppbv
RT: 1.955 min Scan# 724
Delta R.T. 0.001 min
Lab File: TQQ003142.D
Acq: 10 Jul 2026 09:20 pm

Tgt Ion: 58 Resp: 42418

Ion	Ratio	Lower	Upper
58	100		
43	282.4	0.0	750.2

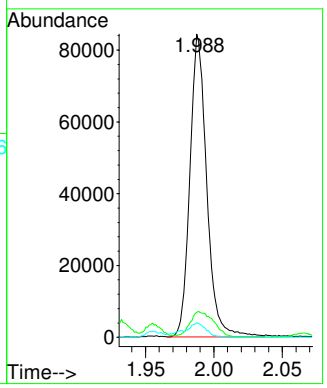


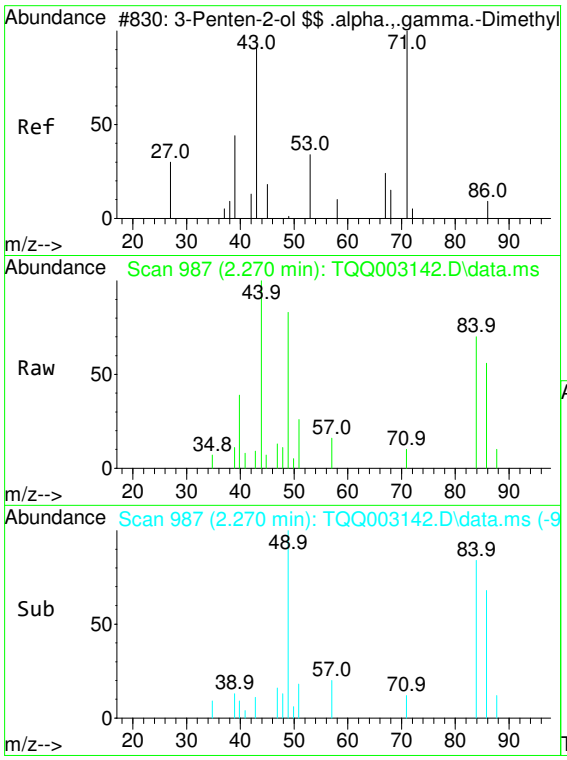


#15
Isopropanol
Concen: 6.34 ppbv
RT: 1.988 min Scan# 751
Delta R.T. 0.001 min
Lab File: TQQ003142.D
Acq: 10 Jul 2026 09:20 pm

Tgt Ion: 45 Resp: 72291

Ion	Ratio	Lower	Upper
45	100		
41	11.8	21.0	98.8#
59	4.4	0.0	8.8

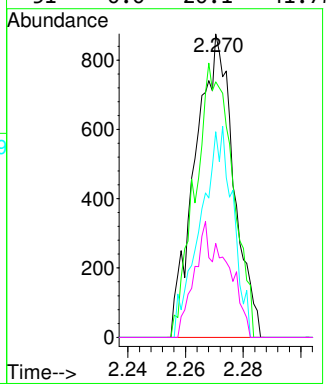


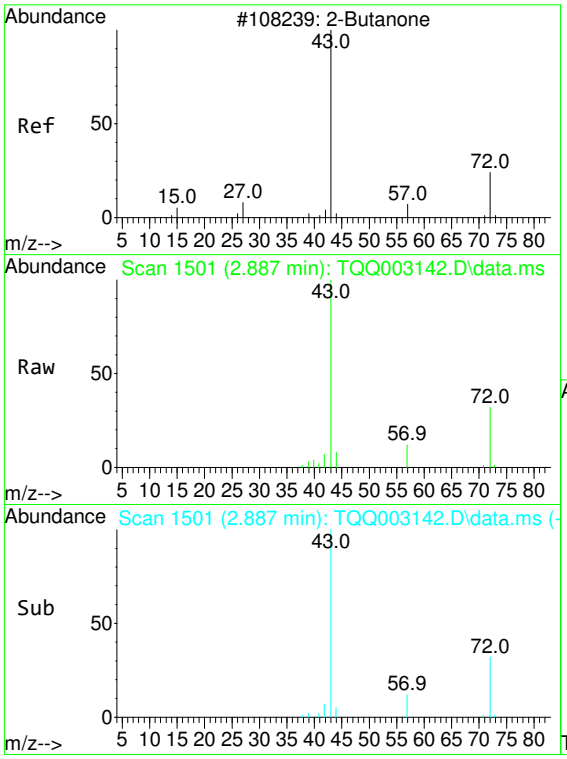


#19
Methylene Chloride
Concen: 0.10 ppbv
RT: 2.270 min Scan# 987
Delta R.T. -0.001 min
Lab File: TQQ003142.D
Acq: 10 Jul 2026 09:20 pm

Tgt Ion: 49 Resp: 805

Ion	Ratio	Lower	Upper
49	100		
84	88.1	57.9	86.9#
86	0.0	37.8	56.8#
51	0.0	20.1	41.7#

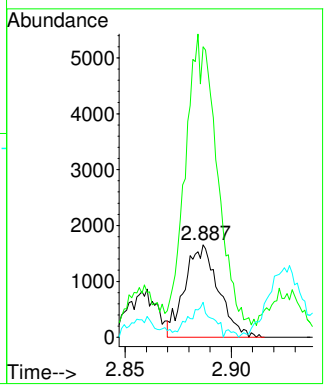


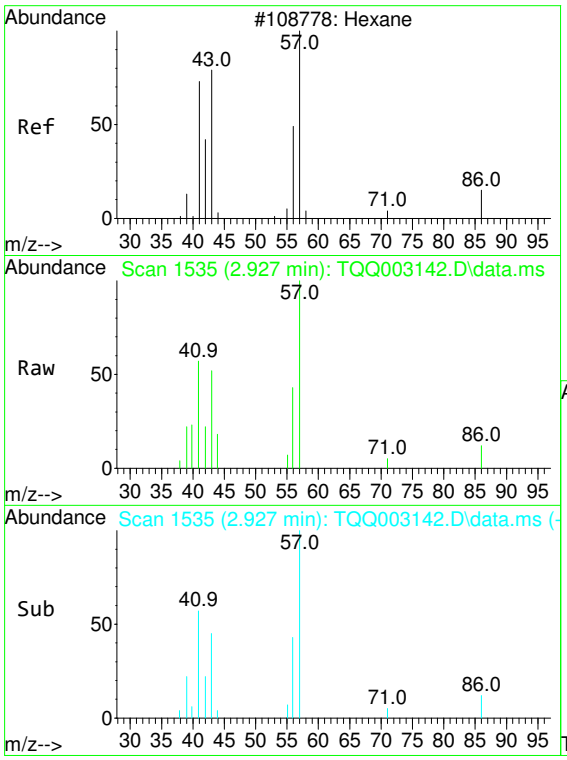


#26
2-Butanone
Concen: 0.43 ppbv
RT: 2.887 min Scan# 1501
Delta R.T. -0.005 min
Lab File: TQQ003142.D
Acq: 10 Jul 2026 09:20 pm

Tgt Ion: 72 Resp: 1811

Ion	Ratio	Lower	Upper
72	100		
43	135.9	459.1	688.7#
57	79.5	253.0	379.4#

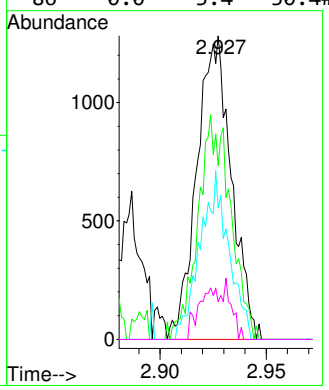


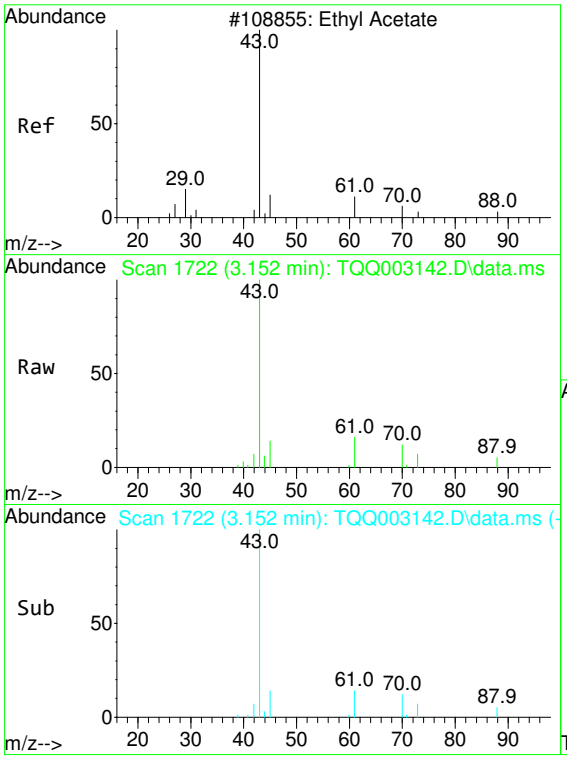


#27
n-Hexane
Concen: 0.12 ppbv
RT: 2.927 min Scan# 1535
Delta R.T. -0.011 min
Lab File: TQQ003142.D
Acq: 10 Jul 2026 09:20 pm

Tgt Ion: 57 Resp: 1440

Ion	Ratio	Lower	Upper
57	100		
41	42.4	55.6	83.4#
56	46.0	30.4	63.2
86	0.0	3.4	30.4#

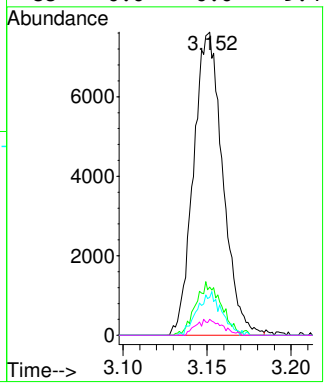


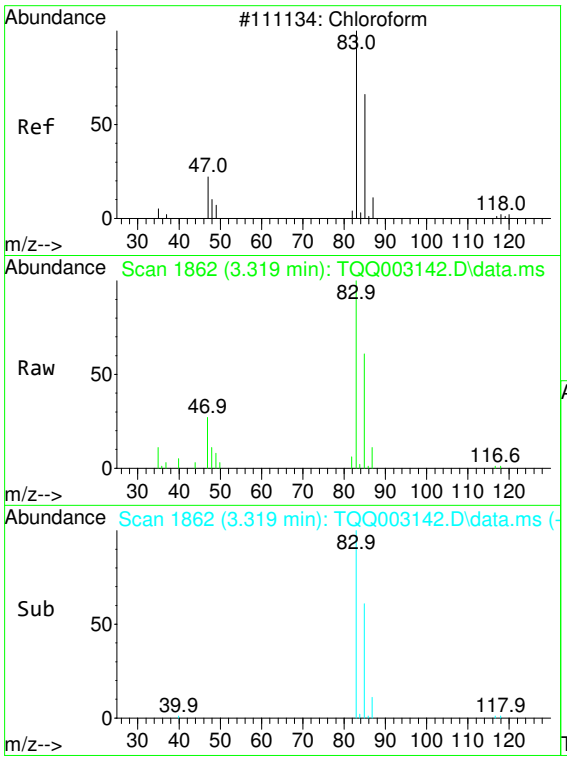


#29
Ethyl Acetate
Concen: 0.35 ppbv
RT: 3.152 min Scan# 1722
Delta R.T. -0.007 min
Lab File: TQQ003142.D
Acq: 10 Jul 2026 09:20 pm

Tgt Ion: 43 Resp: 9214

Ion	Ratio	Lower	Upper
43	100		
61	15.4	2.8	25.4
70	11.9	2.2	20.2
88	0.0	0.0	9.4

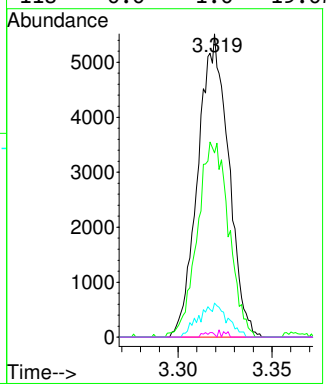


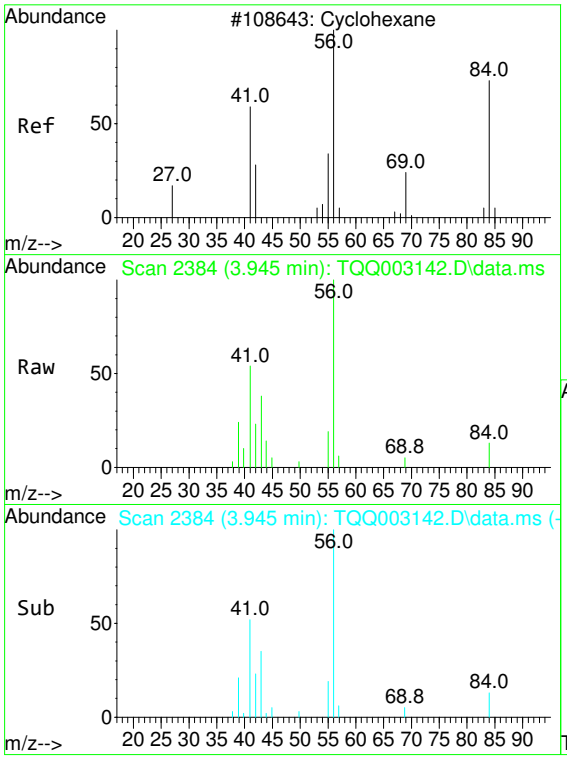


#30
Chloroform
Concen: 0.49 ppbv
RT: 3.319 min Scan# 1862
Delta R.T. -0.012 min
Lab File: TQQ003142.D
Acq: 10 Jul 2026 09:20 pm

Tgt Ion: 83 Resp: 6245

Ion	Ratio	Lower	Upper
83	100		
85	66.0	41.8	86.8
87	10.3	18.6	56.0#
118	0.0	1.0	19.0#

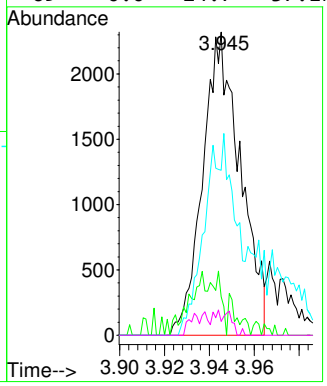


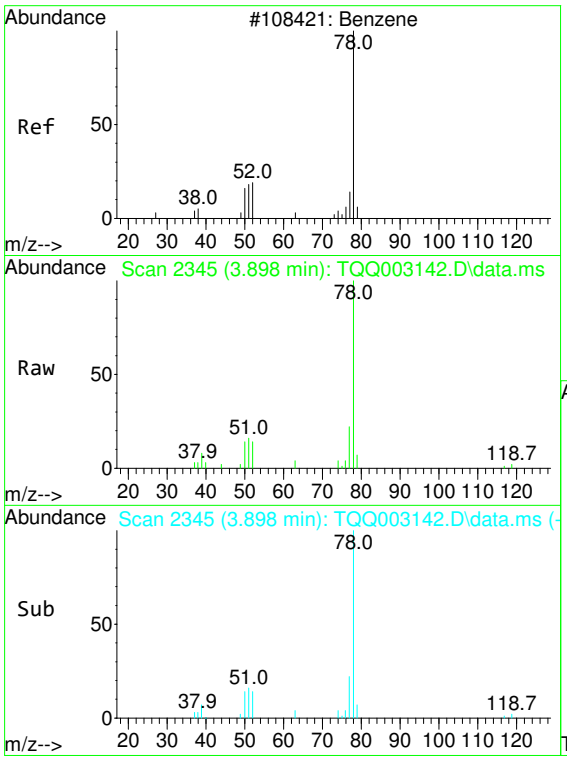


#34
Cyclohexane
Concen: 0.20 ppbv
RT: 3.945 min Scan# 2384
Delta R.T. -0.005 min
Lab File: TQQ003142.D
Acq: 10 Jul 2026 09:20 pm

Tgt Ion: 56 Resp: 2694

Ion	Ratio	Lower	Upper
56	100		
84	0.0	78.6	117.8#
41	30.5	45.8	68.6#
69	0.0	24.7	37.1#

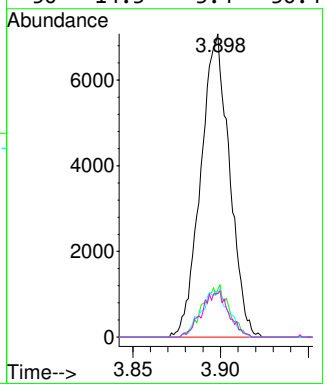


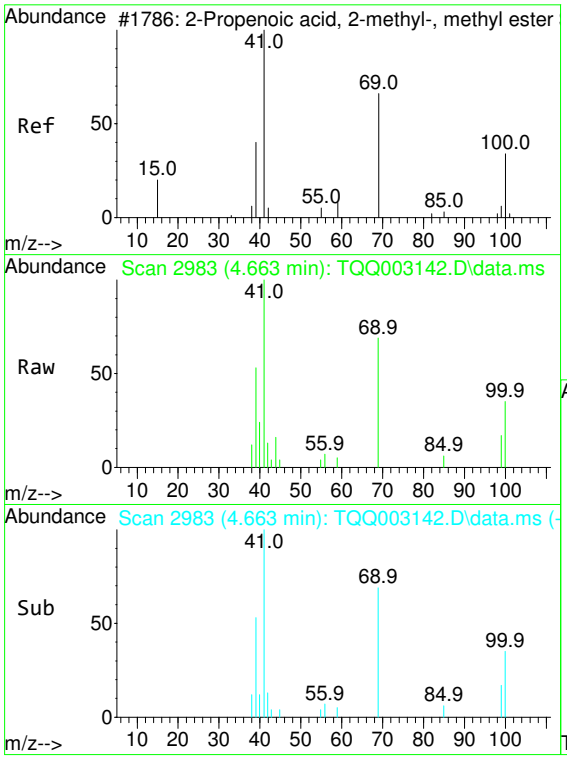


#35
Benzene
Concen: 0.30 ppbv
RT: 3.898 min Scan# 2345
Delta R.T. -0.009 min
Lab File: TQQ003142.D
Acq: 10 Jul 2026 09:20 pm

Tgt Ion: 78 Resp: 8043

Ion	Ratio	Lower	Upper
78	100		
51	8.5	3.9	35.1
52	14.7	3.6	32.0
50	14.3	3.4	30.4

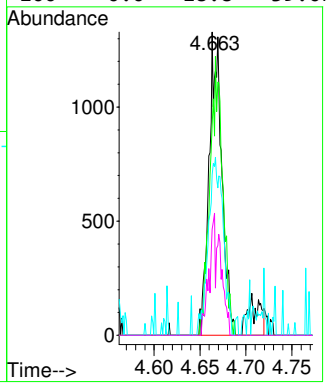


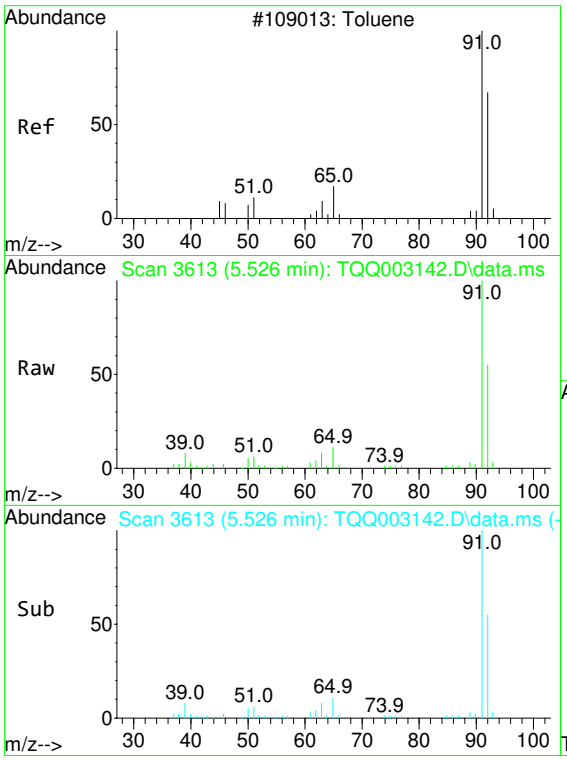


#44
Methyl Methacrylate
Concen: 0.15 ppbv m
RT: 4.663 min Scan# 2983
Delta R.T. -0.012 min
Lab File: TQQ003142.D
Acq: 10 Jul 2026 09:20 pm

Tgt Ion: 41 Resp: 1436

Ion	Ratio	Lower	Upper
41	100		
69	44.7	59.6	89.4#
39	38.1	40.7	61.1#
100	0.0	18.8	39.0#

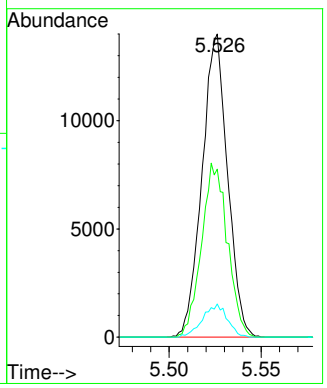


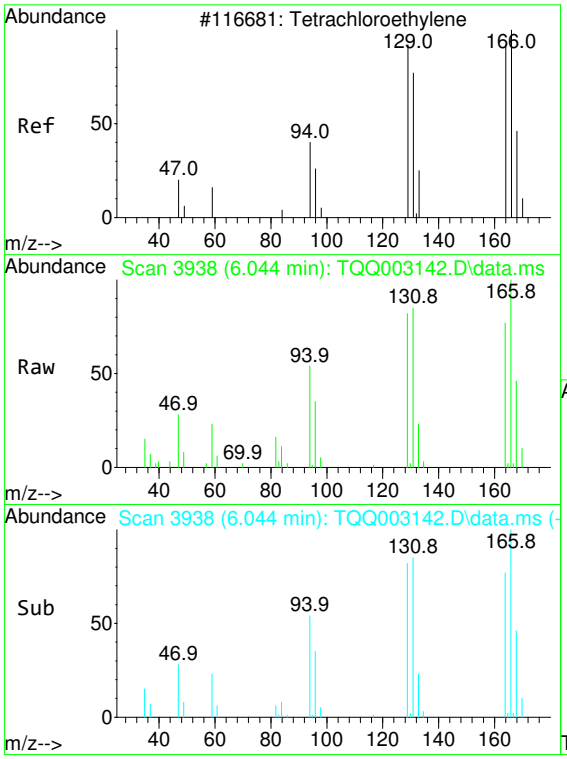


#48
Toluene
Concen: 0.48 ppbv
RT: 5.526 min Scan# 3613
Delta R.T. -0.005 min
Lab File: TQQ003142.D
Acq: 10 Jul 2026 09:20 pm

Tgt Ion: 91 Resp: 13485

Ion	Ratio	Lower	Upper
91	100		
92	58.2	47.1	70.7
65	10.5	2.3	21.1

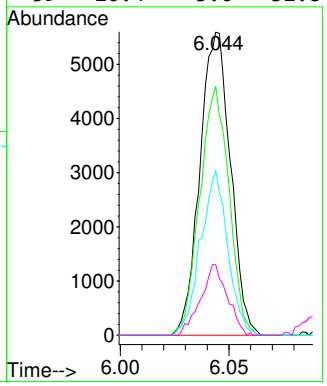


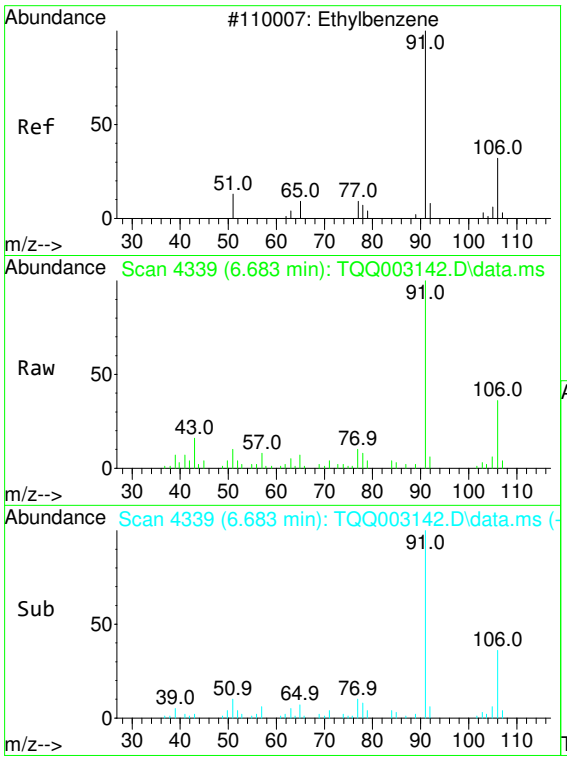


#54
Tetrachloroethylene
Concen: 0.44 ppbv
RT: 6.044 min Scan# 3938
Delta R.T. -0.005 min
Lab File: TQQ003142.D
Acq: 10 Jul 2026 09:20 pm

Tgt Ion:166 Resp: 5481

Ion	Ratio	Lower	Upper
166	100		
129	78.3	63.7	95.5
94	48.3	31.0	64.4
59	20.4	3.6	32.8

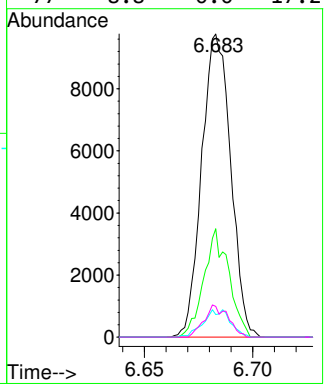


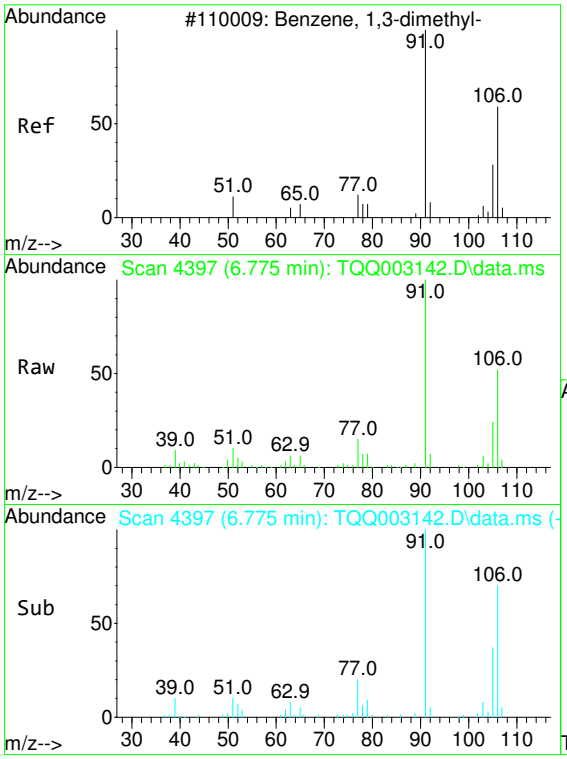


#58
Ethyl benzene
Concen: 0.23 ppbv
RT: 6.683 min Scan# 4339
Delta R.T. -0.003 min
Lab File: TQQ003142.D
Acq: 10 Jul 2026 09:20 pm

Tgt Ion: 91 Resp: 9092

Ion	Ratio	Lower	Upper
91	100		
106	30.9	21.5	44.6
65	0.0	0.0	17.2
77	8.8	0.0	17.2

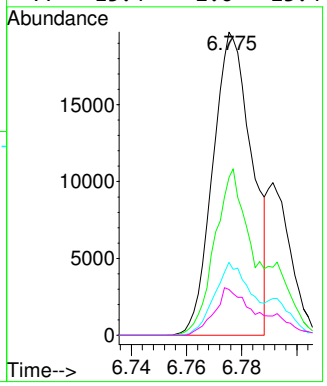


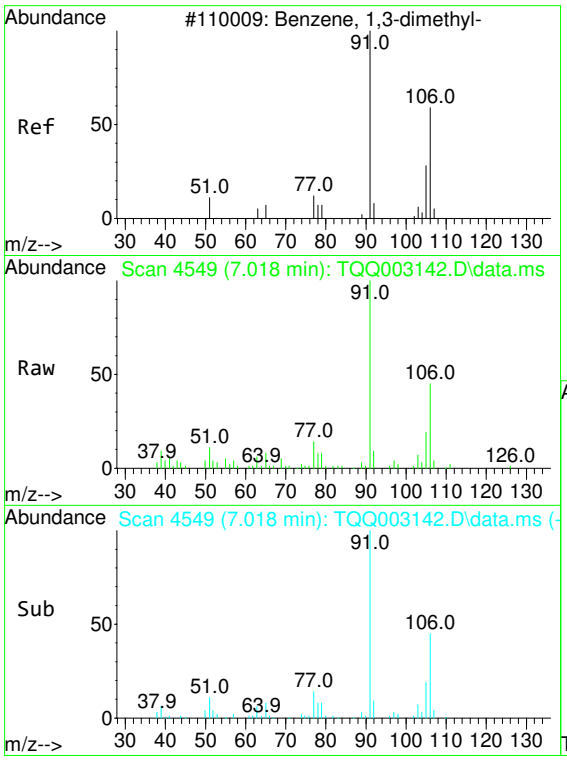


#59
p- & m- Xylenes
Concen: 1.20 ppbv
RT: 6.775 min Scan# 4397
Delta R.T. -0.005 min
Lab File: TQQ003142.D
Acq: 10 Jul 2026 09:20 pm

Tgt Ion: 91 Resp: 19349

Ion	Ratio	Lower	Upper
91	100		
106	50.0	40.8	61.2
105	22.6	11.1	33.1
77	15.4	2.6	23.4

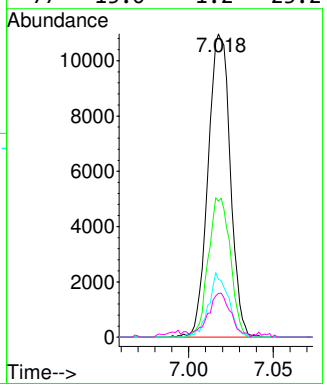


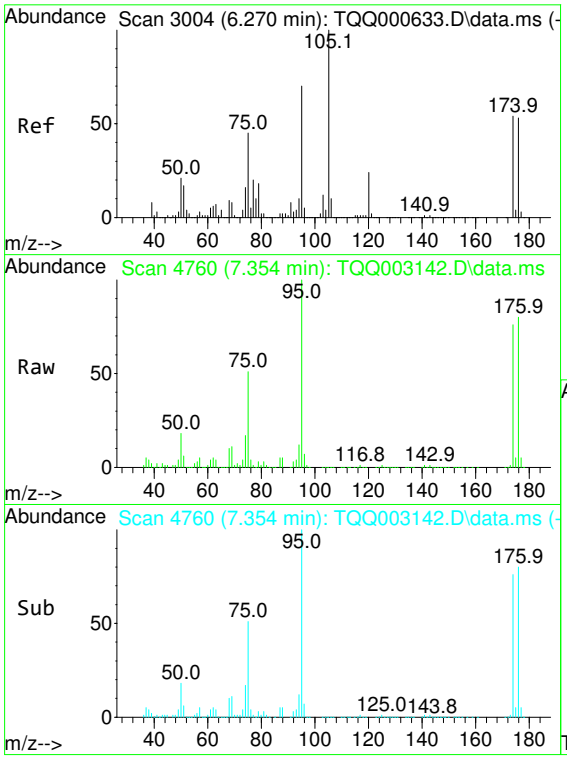


#62
o-Xylene
Concen: 0.29 ppbv
RT: 7.018 min Scan# 4549
Delta R.T. -0.003 min
Lab File: TQQ003142.D
Acq: 10 Jul 2026 09:20 pm

Tgt Ion: 91 Resp: 10013

Ion	Ratio	Lower	Upper
91	100		
106	45.3	38.6	57.8
105	19.1	3.8	34.0
77	15.0	1.2	23.2

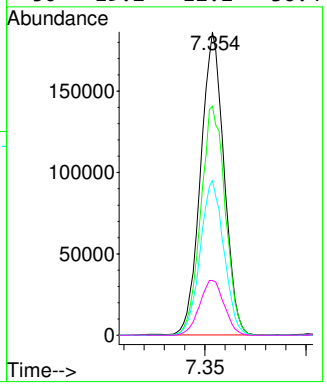


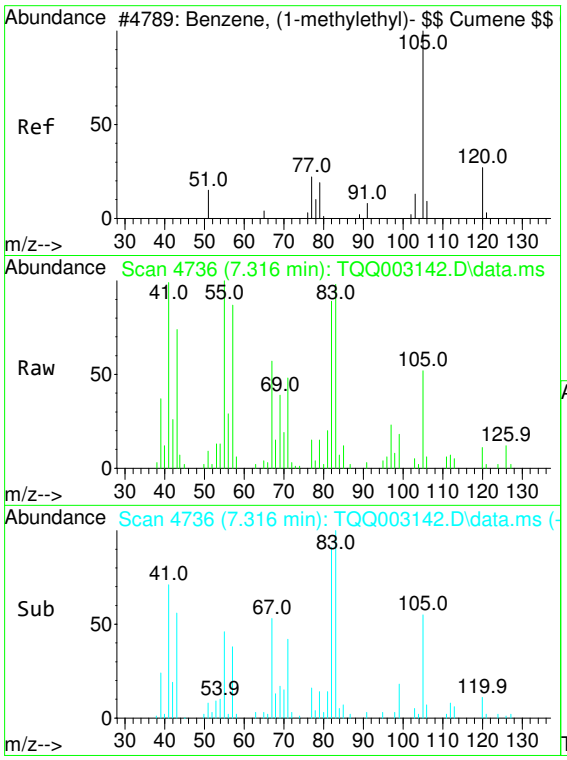


#64
p-Bromofluorobenzene
Concen: 9.48 ppbv
RT: 7.354 min Scan# 4760
Delta R.T. -0.001 min
Lab File: TQQ003142.D
Acq: 10 Jul 2026 09:20 pm

Tgt Ion: 95 Resp: 149152

Ion	Ratio	Lower	Upper
95	100		
174	79.1	58.4	87.6
75	51.8	38.6	58.0
50	19.2	12.2	36.4

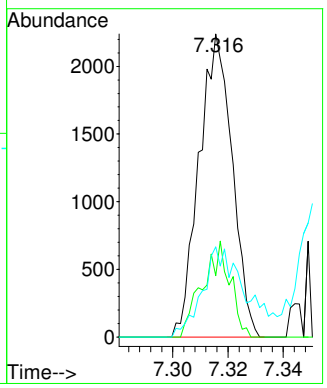


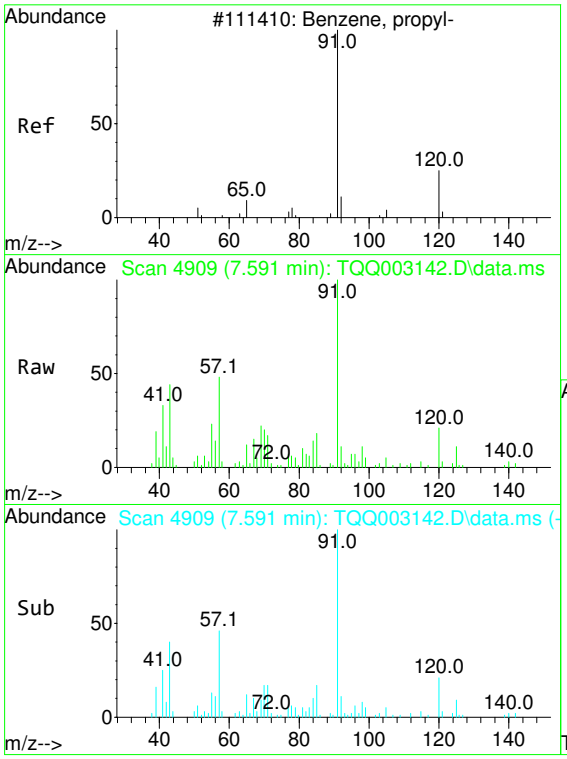


#65
Isopropylbenzene
Concen: 0.04 ppbv
RT: 7.316 min Scan# 4736
Delta R.T. -0.001 min
Lab File: TQQ003142.D
Acq: 10 Jul 2026 09:20 pm

Tgt Ion:105 Resp: 1869

Ion	Ratio	Lower	Upper
105	100		
120	0.0	13.7	41.0#
77	32.4	5.4	25.6#

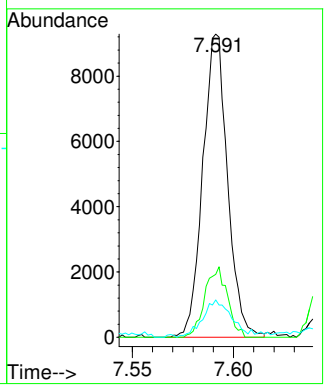


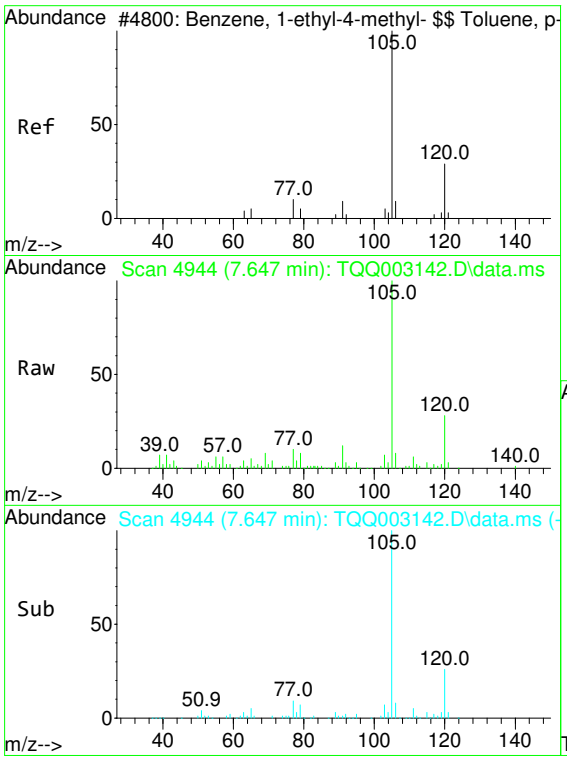


#66
n-Propylbenzene
Concen: 0.15 ppbv
RT: 7.591 min Scan# 4909
Delta R.T. -0.001 min
Lab File: TQQ003142.D
Acq: 10 Jul 2026 09:20 pm

Tgt Ion: 91 Resp: 7897

Ion	Ratio	Lower	Upper
91	100		
120	21.1	8.2	38.8
65	14.0	2.0	18.2

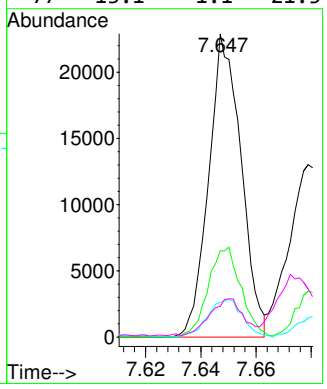


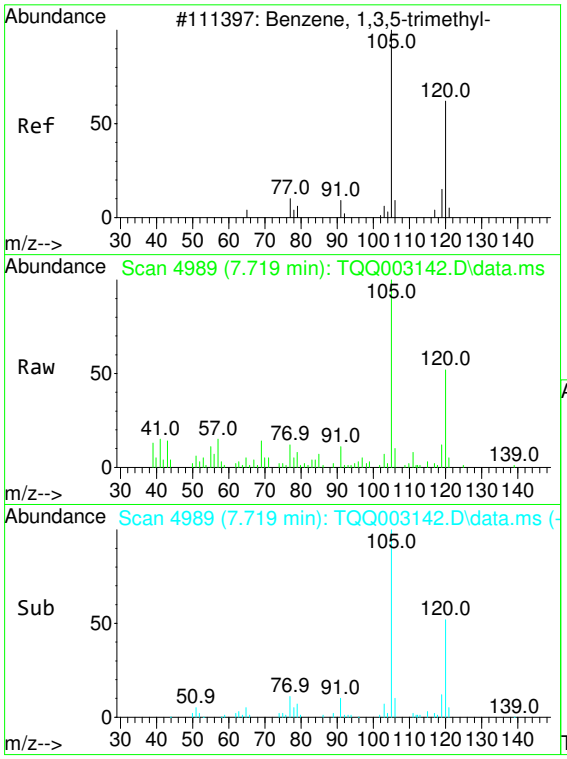


#67
p-Ethyltoluene
Concen: 0.42 ppbv
RT: 7.647 min Scan# 4944
Delta R.T. -0.035 min
Lab File: TQQ003142.D
Acq: 10 Jul 2026 09:20 pm

Tgt Ion:105 Resp: 18644

Ion	Ratio	Lower	Upper
105	100		
120	30.1	19.8	41.0
91	13.4	1.1	20.9
77	13.1	1.1	21.5

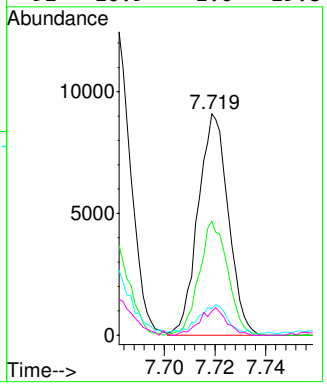


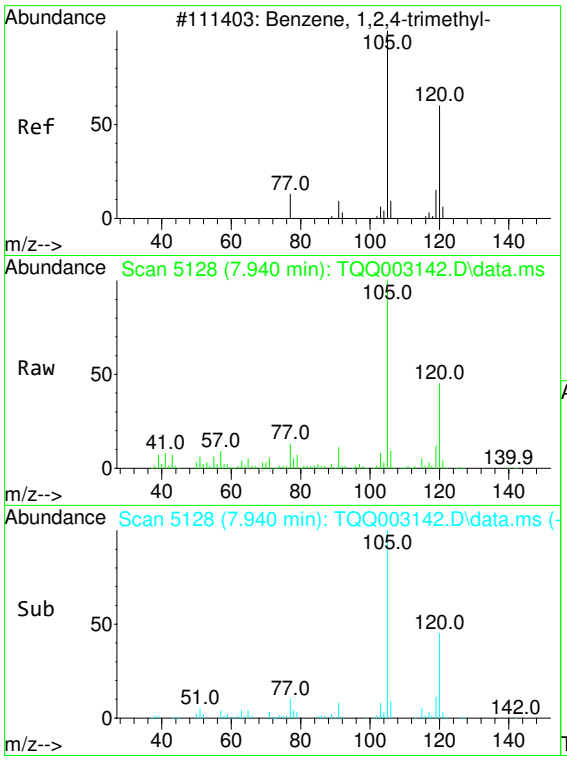


#68
1,3,5-Trimethylbenzene
Concen: 0.21 ppbv
RT: 7.719 min Scan# 4989
Delta R.T. -0.003 min
Lab File: TQQ003142.D
Acq: 10 Jul 2026 09:20 pm

Tgt Ion:105 Resp: 7531

Ion	Ratio	Lower	Upper
105	100		
120	48.7	39.9	59.9
77	14.5	1.3	23.9
91	10.9	1.0	19.8

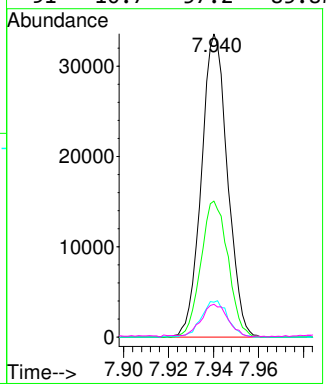


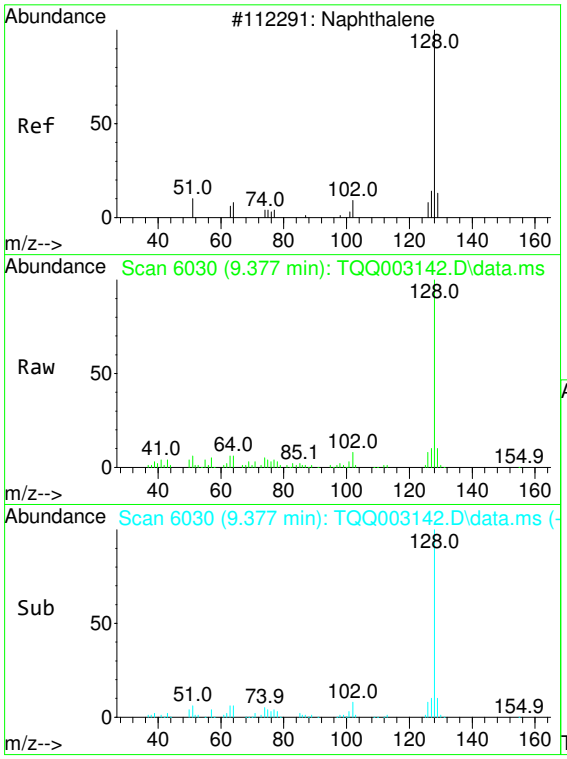


#70
1,2,4-Trimethylbenzene
Concen: 0.72 ppbv
RT: 7.940 min Scan# 5128
Delta R.T. -0.003 min
Lab File: TQQ003142.D
Acq: 10 Jul 2026 09:20 pm

Tgt Ion:105 Resp: 26995

Ion	Ratio	Lower	Upper
105	100		
120	46.6	44.9	67.3
119	12.2	83.3	124.9#
91	10.7	57.2	85.8#

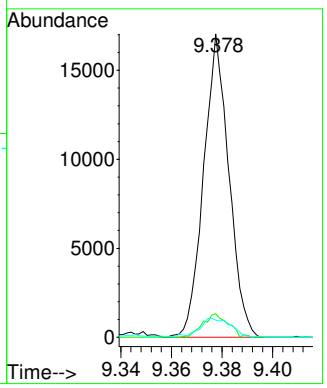




#79
Naphthalene
Concen: 0.19 ppbv
RT: 9.377 min Scan# 6030
Delta R.T. -0.001 min
Lab File: TQQ003142.D
Acq: 10 Jul 2026 09:20 pm

Tgt Ion:128 Resp: 11808

Ion	Ratio	Lower	Upper
128	100		
102	7.9	0.0	16.8
51	7.7	0.0	14.4



Sample Information

Client Sample ID: **IA-9 20260708** **Sample ID:** **26G0459-03**

Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
26G0459	152 Graham Avenue Brooklyn, NY 240052	Indoor Ambient Air	July 8, 2026 2:27 pm	07/08/2026

Analyzed by: **ALS Environmental - Queens**

Volatile Organic Compounds in Air by GC/MS

Sample Prepared by Method: EPA TO15 PREP

Results Reported to MDL

CAS No.	Parameter	Result	Lab Qualifier	CLP Flag	Units	RL	MDL	Dilution	Reference Method	Prepared	Analyzed Date	By
540-84-1	**^2,2,4-Trimethylpentane**	0.44		D	ug/m³	0.22	0.22	0.939	EPA TO-15	7/9/26 8:00	7/10/26 22:07	YR
91-20-3	**^Naphthalene**	0.89		D	ug/m³	4.9	0.34	0.939	EPA TO-15	7/9/26 8:00	7/10/26 22:07	YR
630-20-6	1,1,1,2-Tetrachloroethane	ND		U	ug/m³	0.64	0.20	0.939	EPA TO-15	7/9/26 8:00	7/10/26 22:07	YR
71-55-6	1,1,1-Trichloroethane	ND		U	ug/m³	0.51	0.18	0.939	EPA TO-15	7/9/26 8:00	7/10/26 22:07	YR
79-34-5	1,1,2,2-Tetrachloroethane	ND		U	ug/m³	0.64	0.18	0.939	EPA TO-15	7/9/26 8:00	7/10/26 22:07	YR
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		U	ug/m³	0.72	0.26	0.939	EPA TO-15	7/9/26 8:00	7/10/26 22:07	YR
79-00-5	1,1,2-Trichloroethane	ND		U	ug/m³	0.51	0.18	0.939	EPA TO-15	7/9/26 8:00	7/10/26 22:07	YR
75-34-3	1,1-Dichloroethane	ND		U	ug/m³	0.38	0.15	0.939	EPA TO-15	7/9/26 8:00	7/10/26 22:07	YR
75-35-4	1,1-Dichloroethylene	ND		U	ug/m³	0.19	0.16	0.939	EPA TO-15	7/9/26 8:00	7/10/26 22:07	YR
120-82-1	1,2,4-Trichlorobenzene	ND		U	ug/m³	35	0.27	0.939	EPA TO-15	7/9/26 8:00	7/10/26 22:07	YR
95-63-6	**1,2,4-Trimethylbenzene**	6.3		D	ug/m³	0.46	0.16	0.939	EPA TO-15	7/9/26 8:00	7/10/26 22:07	YR
106-93-4	1,2-Dibromoethane	ND		U	ug/m³	0.72	0.23	0.939	EPA TO-15	7/9/26 8:00	7/10/26 22:07	YR
95-50-1	1,2-Dichlorobenzene	ND		U	ug/m³	0.56	0.17	0.939	EPA TO-15	7/9/26 8:00	7/10/26 22:07	YR
107-06-2	1,2-Dichloroethane	ND		U	ug/m³	0.38	0.17	0.939	EPA TO-15	7/9/26 8:00	7/10/26 22:07	YR
78-87-5	1,2-Dichloropropane	ND		U	ug/m³	0.43	0.15	0.939	EPA TO-15	7/9/26 8:00	7/10/26 22:07	YR
76-14-2	1,2-Dichlorotetrafluoroethane	ND		U	ug/m³	0.66	0.33	0.939	EPA TO-15	7/9/26 8:00	7/10/26 22:07	YR
108-67-8	**1,3,5-Trimethylbenzene**	2.0		D	ug/m³	0.46	0.071	0.939	EPA TO-15	7/9/26 8:00	7/10/26 22:07	YR
106-99-0	**1,3-Butadiene**	0.85		D	ug/m³	0.62	0.064	0.939	EPA TO-15	7/9/26 8:00	7/10/26 22:07	YR
541-73-1	1,3-Dichlorobenzene	ND		U	ug/m³	0.56	0.16	0.939	EPA TO-15	7/9/26 8:00	7/10/26 22:07	YR
142-28-9	1,3-Dichloropropane	ND		U	ug/m³	0.43	0.13	0.939	EPA TO-15	7/9/26 8:00	7/10/26 22:07	YR
106-46-7	1,4-Dichlorobenzene	ND		U	ug/m³	0.56	0.13	0.939	EPA TO-15	7/9/26 8:00	7/10/26 22:07	YR
123-91-1	1,4-Dioxane	ND		U	ug/m³	1.7	0.35	0.939	EPA TO-15	7/9/26 8:00	7/10/26 22:07	YR
78-93-3	**2-Butanone**	4.2		D	ug/m³	14	0.47	0.939	EPA TO-15	7/9/26 8:00	7/10/26 22:07	YR
591-78-6	2-Hexanone	ND		U	ug/m³	0.77	0.21	0.939	EPA TO-15	7/9/26 8:00	7/10/26 22:07	YR
107-05-1	3-Chloropropene	ND		U	ug/m³	1.5	0.12	0.939	EPA TO-15	7/9/26 8:00	7/10/26 22:07	YR
108-10-1	**4-Methyl-2-pentanone**	0.42		D	ug/m³	0.38	0.17	0.939	EPA TO-15	7/9/26 8:00	7/10/26 22:07	YR
107-13-1	Acrylonitrile	ND		U	ug/m³	10	1.9	0.939	EPA TO-15	7/9/26 8:00	7/10/26 22:07	YR
71-43-2	**Benzene**	0.93		D	ug/m³	0.30	0.11	0.939	EPA TO-15	7/9/26 8:00	7/10/26 22:07	YR
100-44-7	Benzyl chloride	ND		U	ug/m³	12	0.15	0.939	EPA TO-15	7/9/26 8:00	7/10/26 22:07	YR
75-27-4	Bromodichloromethane	ND		U	ug/m³	0.63	0.19	0.939	EPA TO-15	7/9/26 8:00	7/10/26 22:07	YR
75-25-2	Bromoform	ND		U	ug/m³	0.97	0.41	0.939	EPA TO-15	7/9/26 8:00	7/10/26 22:07	YR
74-83-9	Bromomethane	ND		U	ug/m³	0.36	0.16	0.939	EPA TO-15	7/9/26 8:00	7/10/26 22:07	YR
75-15-0	**Carbon disulfide**	0.50		D	ug/m³	0.29	0.075	0.939	EPA TO-15	7/9/26 8:00	7/10/26 22:07	YR

Sample Information

Client Sample ID: **IA-9 20260708** **Sample ID:** **26G0459-03**

Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
26G0459	152 Graham Avenue Brooklyn, NY 240052	Indoor Ambient Air	July 8, 2026 2:27 pm	07/08/2026

Analyzed by: **ALS Environmental - Queens**

Volatile Organic Compounds in Air by GC/MS

Sample Prepared by Method: EPA TO15 PREP

Results Reported to MDL

CAS No.	Parameter	Result	Lab Qualifier	CLP Flag	Units	RL	MDL	Dilution	Reference Method	Prepared	Analyzed Date	By
56-23-5	Carbon tetrachloride	ND		U	ug/m³	0.18	0.18	0.939	EPA TO-15	7/9/26 8:00	7/10/26 22:07	YR
108-90-7	Chlorobenzene	ND		U	ug/m³	0.43	0.17	0.939	EPA TO-15	7/9/26 8:00	7/10/26 22:07	YR
75-00-3	Chloroethane	ND		U	ug/m³	0.25	0.14	0.939	EPA TO-15	7/9/26 8:00	7/10/26 22:07	YR
67-66-3	**Chloroform**	4.4		D	ug/m³	0.46	0.13	0.939	EPA TO-15	7/9/26 8:00	7/10/26 22:07	YR
74-87-3	**Chloromethane**	1.3		D	ug/m³	0.19	0.14	0.939	EPA TO-15	7/9/26 8:00	7/10/26 22:07	YR
156-59-2	cis-1,2-Dichloroethylene	ND		U	ug/m³	0.19	0.096	0.939	EPA TO-15	7/9/26 8:00	7/10/26 22:07	YR
10061-01-5	cis-1,3-Dichloropropylene	ND		U	ug/m³	0.43	0.17	0.939	EPA TO-15	7/9/26 8:00	7/10/26 22:07	YR
110-82-7	**Cyclohexane**	3.5		D	ug/m³	0.32	0.23	0.939	EPA TO-15	7/9/26 8:00	7/10/26 22:07	YR
124-48-1	Dibromochloromethane	ND		U	ug/m³	0.80	0.32	0.939	EPA TO-15	7/9/26 8:00	7/10/26 22:07	YR
75-71-8	**Dichlorodifluoromethane**	1.7		D	ug/m³	0.46	0.26	0.939	EPA TO-15	7/9/26 8:00	7/10/26 22:07	YR
141-78-6	**Ethyl acetate**	2.7	TO-CCV	D	ug/m³	17	0.20	0.939	EPA TO-15	7/9/26 8:00	7/10/26 22:07	YR
100-41-4	**Ethyl Benzene**	5.5		D	ug/m³	0.41	0.14	0.939	EPA TO-15	7/9/26 8:00	7/10/26 22:07	YR
87-68-3	Hexachlorobutadiene	ND		U	ug/m³	1.0	0.38	0.939	EPA TO-15	7/9/26 8:00	7/10/26 22:07	YR
67-63-0	**Isopropanol**	48		D	ug/m³	1.4	0.055	0.939	EPA TO-15	7/9/26 8:00	7/10/26 22:07	YR
80-62-6	Methyl Methacrylate	ND		U	ug/m³	0.38	0.24	0.939	EPA TO-15	7/9/26 8:00	7/10/26 22:07	YR
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		U	ug/m³	0.34	0.10	0.939	EPA TO-15	7/9/26 8:00	7/10/26 22:07	YR
75-09-2	**Methylene chloride**	0.52		D	ug/m³	2.0	0.11	0.939	EPA TO-15	7/9/26 8:00	7/10/26 22:07	YR
142-82-5	**n-Heptane**	1.2		D	ug/m³	0.38	0.15	0.939	EPA TO-15	7/9/26 8:00	7/10/26 22:07	YR
110-54-3	**n-Hexane**	0.63		D	ug/m³	0.33	0.10	0.939	EPA TO-15	7/9/26 8:00	7/10/26 22:07	YR
95-47-6	**o-Xylene**	5.4		D	ug/m³	0.41	0.14	0.939	EPA TO-15	7/9/26 8:00	7/10/26 22:07	YR
179601-23-1	**p- & m- Xylenes**	31	TO-MPX	D	ug/m³	0.82	0.21	0.939	EPA TO-15	7/9/26 8:00	7/10/26 22:07	YR
622-96-8	**p-Ethyltoluene**	3.6		D	ug/m³	0.46	0.16	0.939	EPA TO-15	7/9/26 8:00	7/10/26 22:07	YR
115-07-1	Propylene	ND	TO-CCV, TO-LCS-L	U	ug/m³	0.16	0.092	0.939	EPA TO-15	7/9/26 8:00	7/10/26 22:07	YR
100-42-5	**Styrene**	0.92		D	ug/m³	0.40	0.12	0.939	EPA TO-15	7/9/26 8:00	7/10/26 22:07	YR
127-18-4	**Tetrachloroethylene**	4.3		D	ug/m³	0.64	0.15	0.939	EPA TO-15	7/9/26 8:00	7/10/26 22:07	YR
109-99-9	Tetrahydrofuran	ND		U	ug/m³	0.55	0.093	0.939	EPA TO-15	7/9/26 8:00	7/10/26 22:07	YR
108-88-3	**Toluene**	4.1		D	ug/m³	0.35	0.14	0.939	EPA TO-15	7/9/26 8:00	7/10/26 22:07	YR
156-60-5	trans-1,2-Dichloroethylene	ND		U	ug/m³	0.37	0.089	0.939	EPA TO-15	7/9/26 8:00	7/10/26 22:07	YR
10061-02-6	trans-1,3-Dichloropropylene	ND		U	ug/m³	0.43	0.17	0.939	EPA TO-15	7/9/26 8:00	7/10/26 22:07	YR
79-01-6	**Trichloroethylene**	1.6		D	ug/m³	0.15	0.15	0.939	EPA TO-15	7/9/26 8:00	7/10/26 22:07	YR
75-69-4	**Trichlorofluoromethane (Freon 11)**	1.1		D	ug/m³	0.53	0.19	0.939	EPA TO-15	7/9/26 8:00	7/10/26 22:07	YR
108-05-4	Vinyl acetate	ND	TO-LCS-L	U	ug/m³	0.33	0.17	0.939	EPA TO-15	7/9/26 8:00	7/10/26 22:07	YR
593-60-2	Vinyl bromide	ND		U	ug/m³	0.41	0.14	0.939	EPA TO-15	7/9/26 8:00	7/10/26 22:07	YR

Sample Information

Client Sample ID: **IA-9 20260708** **Sample ID:** **26G0459-03**

Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
26G0459	152 Graham Avenue Brooklyn, NY 240052	Indoor Ambient Air	July 8, 2026 2:27 pm	07/08/2026

Analyzed by: **ALS Environmental - Queens**

Volatile Organic Compounds in Air by GC/MS

Sample Prepared by Method: EPA TO15 PREP

Results Reported to MDL

CAS No.	Parameter	Result	Lab Qualifier	CLP Flag	Units	RL	MDL	Dilution	Reference Method	Prepared	Analyzed Date	By
75-01-4	Vinyl Chloride	ND		U	ug/m³	0.12	0.096	0.939	EPA TO-15	7/9/26 8:00	7/10/26 22:07	YR

Quantitation Report (QT Reviewed)

Data Path : C:\MassHunter\GCMS\1\data\2026\7-JULY\071026\
Data File : TQQ003143.D
Acq On : 10 Jul 2026 10:07 pm
Operator : YR
Sample : 26G0459-03
Misc : .533X
ALS Vial : 1 Sample Multiplier: 0.939

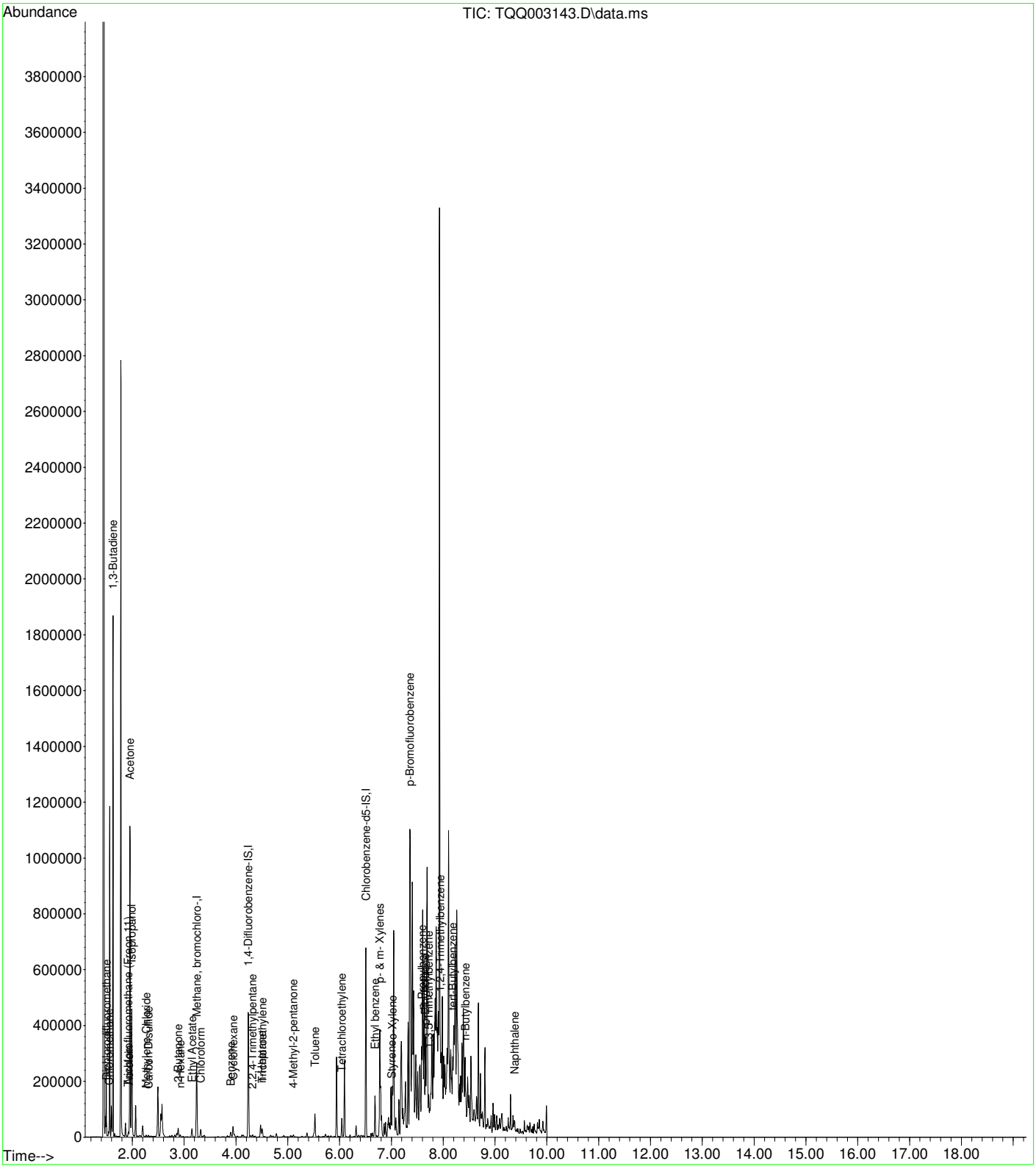
Quant Time: Jul 12 11:50:02 2026
Quant Method : C:\MassHunter\GCMS\1\methods\QA4 01JUNE2026(updated070726).m
Quant Title : TO-15
QLast Update : Tue Jul 07 14:14:35 2026
Response via : Initial Calibration

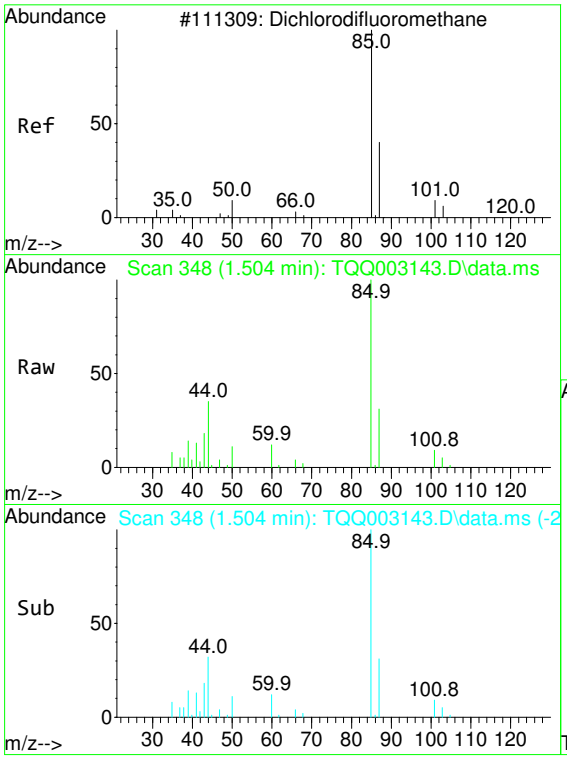
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Methane, bromochloro-	3.241	130	56195	10.00	ppbv	#	0.00
38) 1,4-Difluorobenzene-IS	4.237	114	218084	10.00	ppbv		-0.01
55) Chlorobenzene-d5-IS	6.507	117	201073	10.00	ppbv		0.00
Target Compounds							Qvalue
3) Dichlorodifluoromethane	1.504	85	6446	0.36	ppbv		99
5) Chloromethane	1.551	50	4793	0.67	ppbv	#	80
7) 1,3-Butadiene	1.626	54	2001	0.41	ppbv	#	1
12) Trichlorofluoromethane...	1.919	101	3679	0.21	ppbv	#	95
13) Acrolein	1.931	56	3423	1.66	ppbv	#	94
14) Acetone	1.954	58	196842	52.76	ppbv		61
15) Isopropanol	1.988	45	235725	20.79	ppbv	#	43
19) Methylene Chloride	2.269	49	1218	0.16	ppbv	#	72
21) Carbon Disulfide	2.313	76	3243	0.17	ppbv	#	75
26) 2-Butanone	2.883	72	6354	1.50	ppbv	#	1
27) n-Hexane	2.927	57	2285	0.19	ppbv	#	62
29) Ethyl Acetate	3.150	43	20354m	0.79	ppbv		
30) Chloroform	3.319	83	12099	0.96	ppbv	#	81
34) Cyclohexane	3.944	56	14241	1.09	ppbv	#	36
35) Benzene	3.899	78	8223	0.31	ppbv		88
37) 2,2,4-Trimethylpentane	4.319	57	3941m	0.10	ppbv		
39) n-Heptane	4.501	43	3994	0.32	ppbv	#	58
41) Trichloroethylene	4.511	130	3152	0.32	ppbv		96
46) 4-Methyl-2-pentanone	5.108	43	1866	0.11	ppbv	#	75
48) Toluene	5.525	91	33765	1.17	ppbv		100
54) Tetrachloroethylene	6.043	166	8719	0.68	ppbv		96
58) Ethyl benzene	6.684	91	53257	1.36	ppbv		97
59) p- & m- Xylenes	6.776	91	122512	7.70	ppbv	#	88
61) Styrene	7.004	104	5425	0.23	ppbv	#	69
62) o-Xylene	7.018	91	45786	1.33	ppbv		98
64) p-Bromofluorobenzene	7.355	95	151415	9.77	ppbv		94
66) n-Propylbenzene	7.592	91	16198	0.30	ppbv	#	88
67) p-Ethyltoluene	7.649	105	33791	0.78	ppbv		99
68) 1,3,5-Trimethylbenzene	7.719	105	15568	0.43	ppbv		99
69) tert-Butylbenzene	8.183	119	11128	0.25	ppbv	#	62
70) 1,2,4-Trimethylbenzene	7.941	105	50935	1.37	ppbv	#	34
77) n-Butylbenzene	8.429	91	5910	0.13	ppbv	#	69
79) Naphthalene	9.378	128	11160	0.18	ppbv		99

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

Data Path : C:\MassHunter\GCMS\1\data\2026\7-JULY\071026\
Data File : TQQ003143.D
Acq On : 10 Jul 2026 10:07 pm
Operator : YR
Sample : 26G0459-03
Misc : .533X
ALS Vial : 1 Sample Multiplier: 0.939

Quant Time: Jul 12 11:50:02 2026
Quant Method : C:\MassHunter\GCMS\1\methods\QA4 01JUNE2026(updated070726).m
Quant Title : TO-15
QLast Update : Tue Jul 07 14:14:35 2026
Response via : Initial Calibration

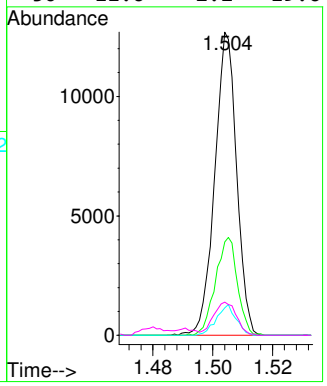


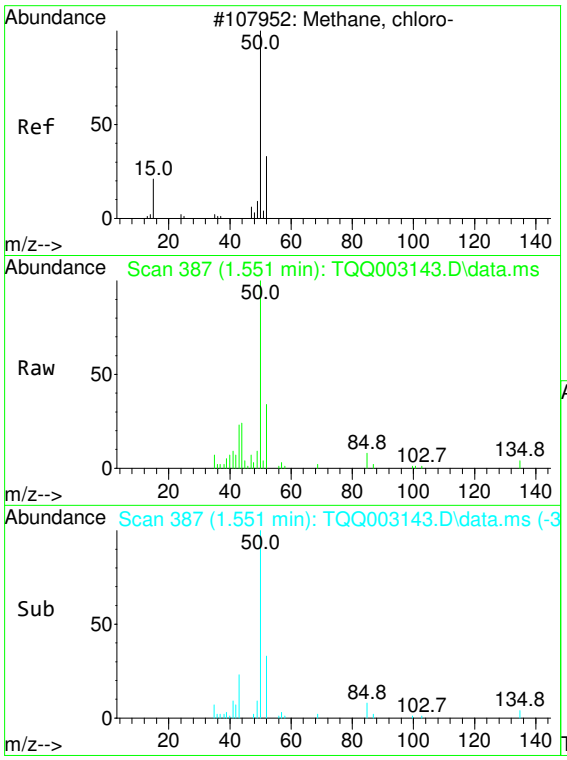


#3
Dichlorodifluoromethane
Concen: 0.36 ppbv
RT: 1.504 min Scan# 348
Delta R.T. 0.001 min
Lab File: TQQ003143.D
Acq: 10 Jul 2026 10:07 pm

Tgt Ion: 85 Resp: 6446

Ion	Ratio	Lower	Upper
85	100		
87	32.6	16.1	48.2
101	9.1	1.9	17.3
50	11.6	2.2	19.6

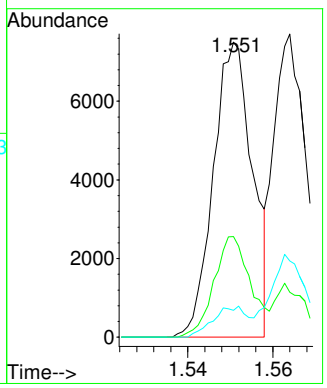


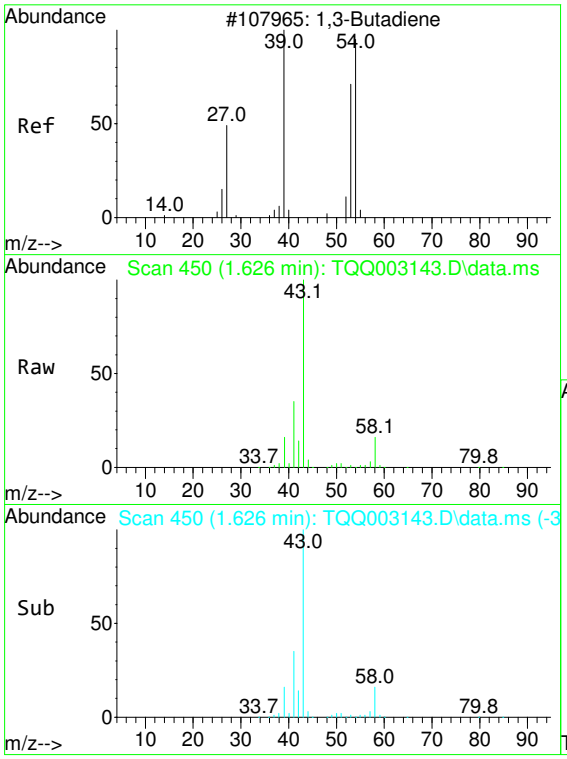


#5
Chloromethane
Concen: 0.67 ppbv
RT: 1.551 min Scan# 387
Delta R.T. -0.001 min
Lab File: TQQ003143.D
Acq: 10 Jul 2026 10:07 pm

Tgt Ion: 50 Resp: 4793

Ion	Ratio	Lower	Upper
50	100		
52	32.4	16.1	33.3
49	0.0	2.3	21.1#

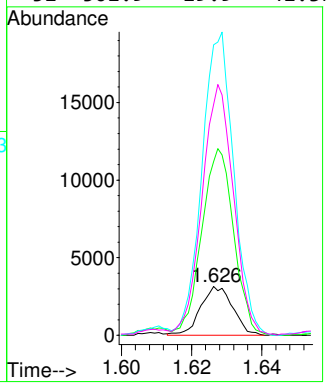


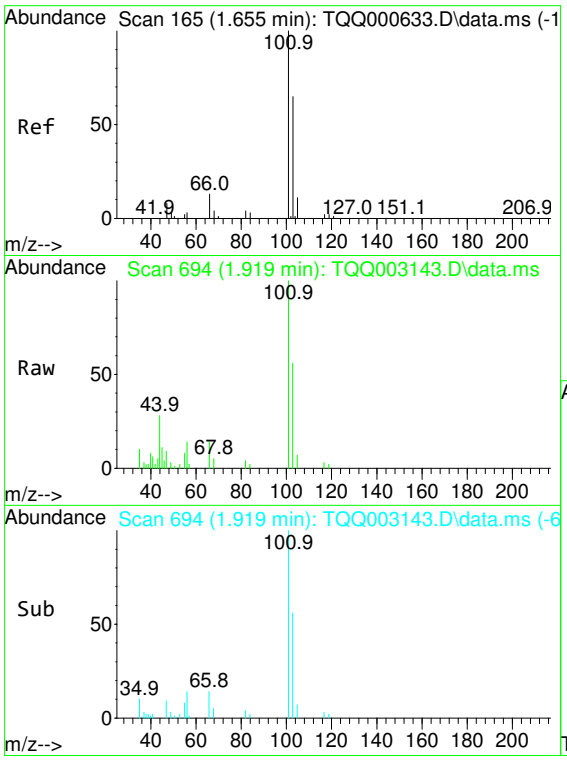


#7
1,3-Butadiene
Concen: 0.41 ppbv
RT: 1.626 min Scan# 450
Delta R.T. -0.000 min
Lab File: TQQ003143.D
Acq: 10 Jul 2026 10:07 pm

Tgt Ion: 54 Resp: 2001

Ion	Ratio	Lower	Upper
54	100		
53	380.1	54.5	81.7#
50	613.2	23.3	48.3#
51	501.9	19.9	41.3#

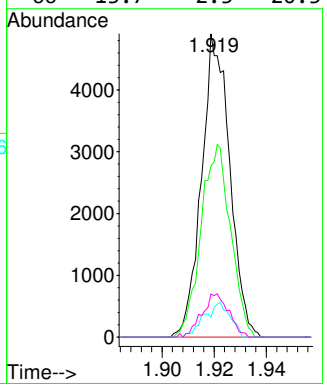


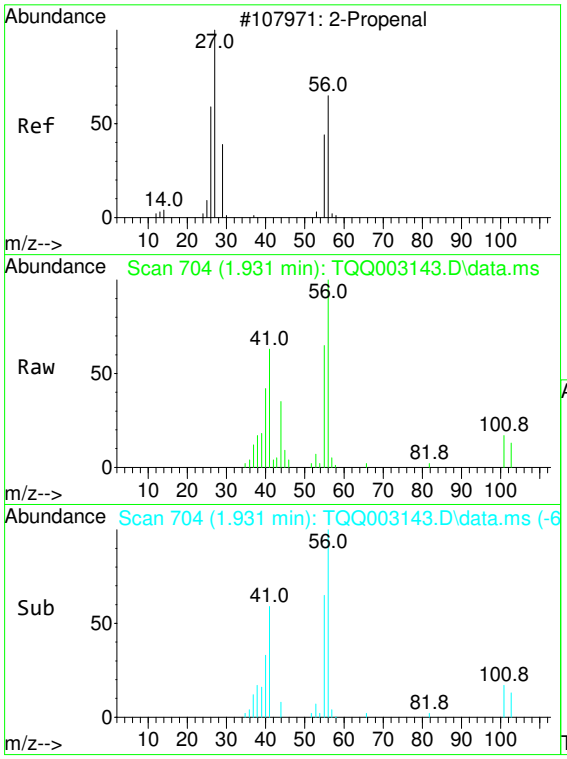


#12
Trichlorofluoromethane (Freon 11)
Concen: 0.21 ppbv
RT: 1.919 min Scan# 694
Delta R.T. -0.001 min
Lab File: TQQ003143.D
Acq: 10 Jul 2026 10:07 pm

Tgt Ion:101 Resp: 3679

Ion	Ratio	Lower	Upper
101	100		
103	66.5	52.2	78.4
105	0.0	2.1	19.3#
66	13.7	2.3	20.3

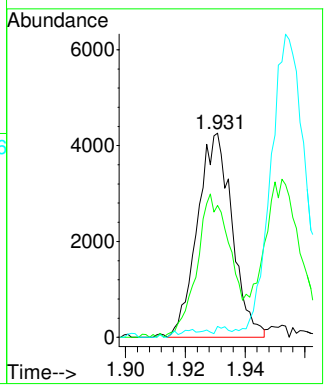


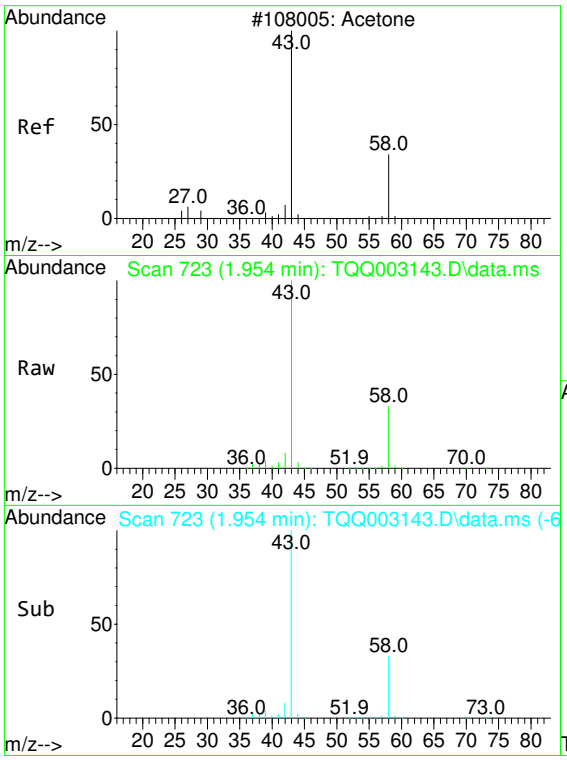


#13
Acrolein
Concen: 1.66 ppbv
RT: 1.931 min Scan# 704
Delta R.T. 0.002 min
Lab File: TQQ003143.D
Acq: 10 Jul 2026 10:07 pm

Tgt Ion: 56 Resp: 3423

Ion	Ratio	Lower	Upper
56	100		
55	70.9	60.6	91.0
57	0.0	0.0	9.8#

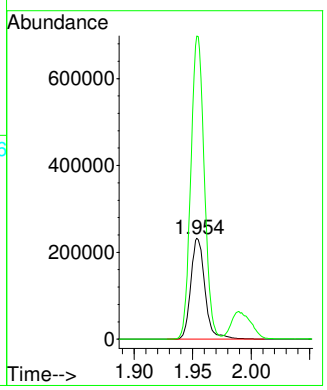


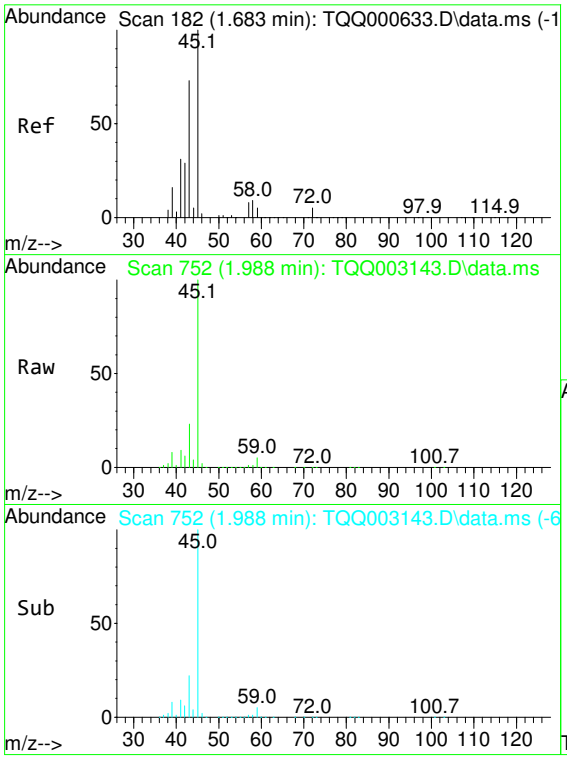


#14
Acetone
Concen: 52.76 ppbv
RT: 1.954 min Scan# 723
Delta R.T. -0.000 min
Lab File: TQQ003143.D
Acq: 10 Jul 2026 10:07 pm

Tgt Ion: 58 Resp: 196842

Ion	Ratio	Lower	Upper
58	100		
43	285.7	0.0	750.2

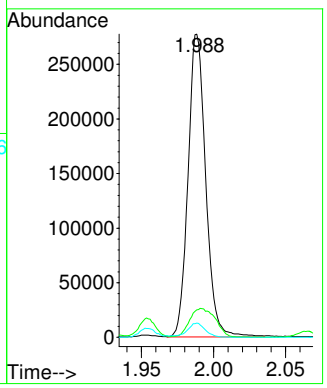


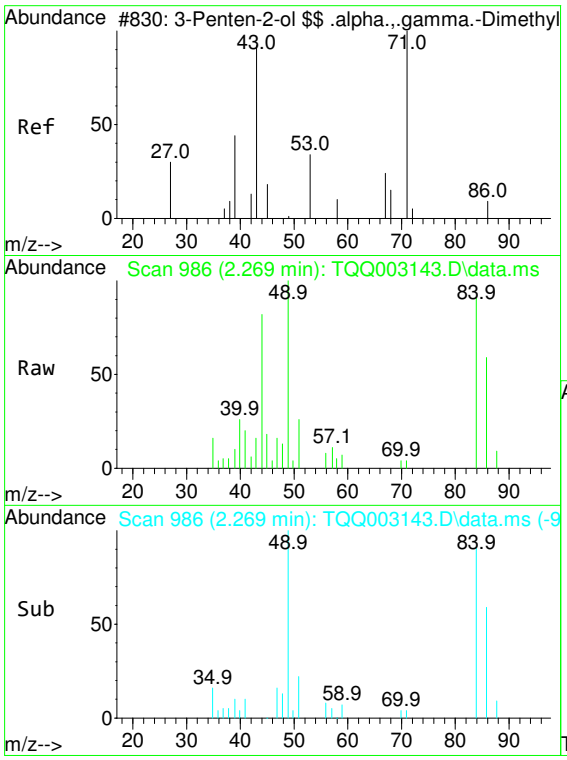


#15
Isopropanol
Concen: 20.79 ppbv
RT: 1.988 min Scan# 752
Delta R.T. 0.002 min
Lab File: TQQ003143.D
Acq: 10 Jul 2026 10:07 pm

Tgt Ion: 45 Resp: 235725

Ion	Ratio	Lower	Upper
45	100		
41	13.8	21.0	98.8#
59	4.6	0.0	8.8

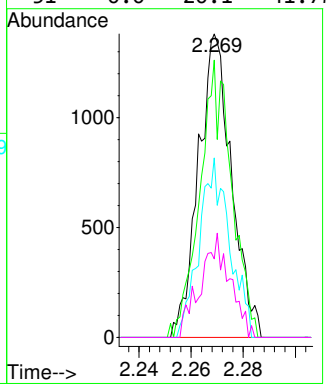


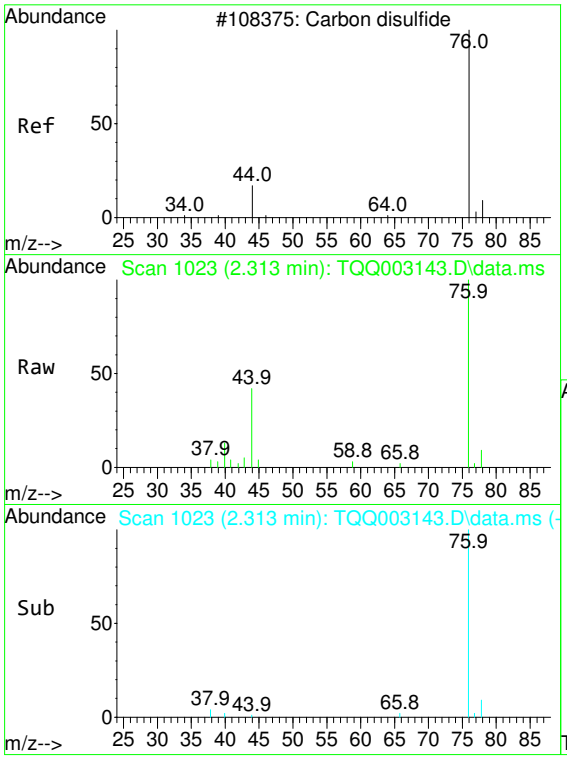


#19
Methylene Chloride
Concen: 0.16 ppbv
RT: 2.269 min Scan# 986
Delta R.T. -0.003 min
Lab File: TQQ003143.D
Acq: 10 Jul 2026 10:07 pm

Tgt Ion: 49 Resp: 1218

Ion	Ratio	Lower	Upper
49	100		
84	49.3	57.9	86.9#
86	53.9	37.8	56.8
51	0.0	20.1	41.7#

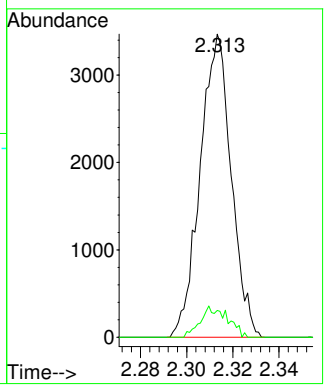


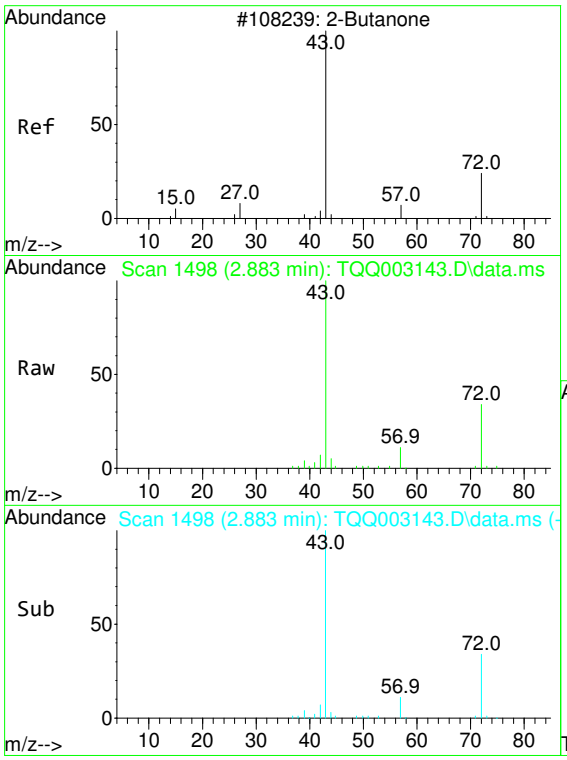


#21
Carbon Disulfide
Concen: 0.17 ppbv
RT: 2.313 min Scan# 1023
Delta R.T. -0.003 min
Lab File: TQQ003143.D
Acq: 10 Jul 2026 10:07 pm

Tgt Ion: 76 Resp: 3243

Ion	Ratio	Lower	Upper
76	100		
78	0.0	0.9	17.5#

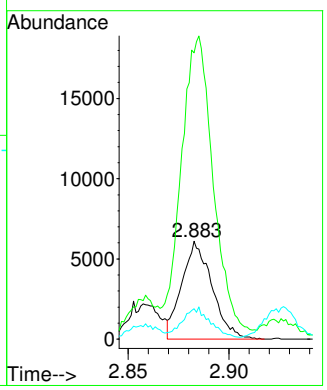


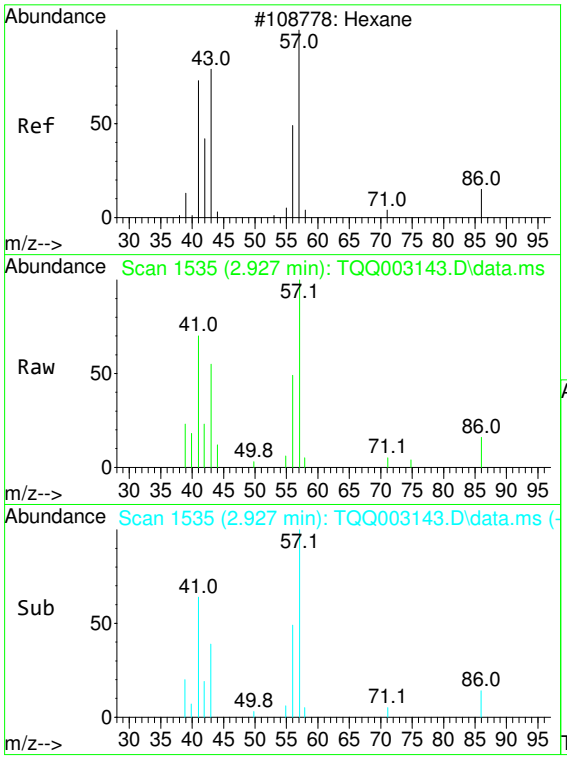


#26
2-Butanone
Concen: 1.50 ppbv
RT: 2.883 min Scan# 1498
Delta R.T. -0.009 min
Lab File: TQQ003143.D
Acq: 10 Jul 2026 10:07 pm

Tgt Ion: 72 Resp: 6354

Ion	Ratio	Lower	Upper
72	100		
43	313.9	459.1	688.7#
57	31.3	253.0	379.4#

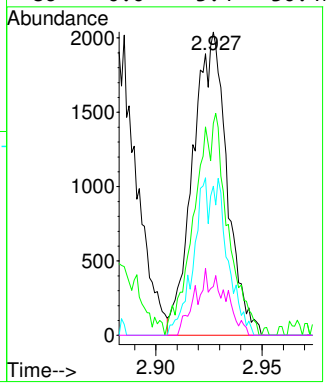


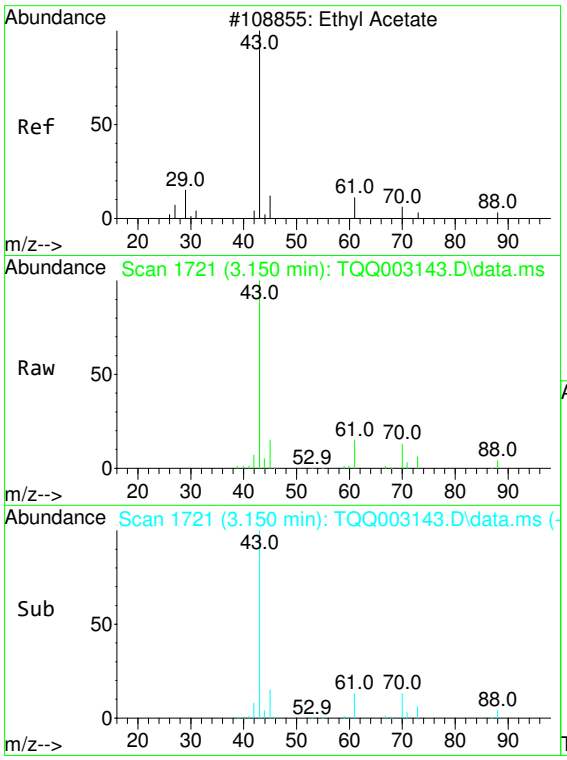


#27
n-Hexane
Concen: 0.19 ppbv
RT: 2.927 min Scan# 1535
Delta R.T. -0.011 min
Lab File: TQQ003143.D
Acq: 10 Jul 2026 10:07 pm

Tgt Ion: 57 Resp: 2285

Ion	Ratio	Lower	Upper
57	100		
41	37.3	55.6	83.4#
56	22.8	30.4	63.2#
86	0.0	3.4	30.4#

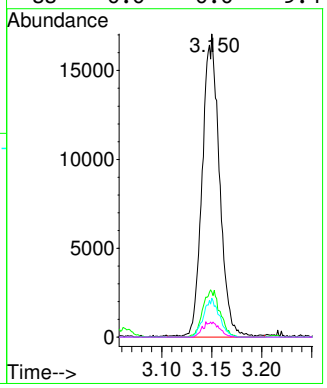


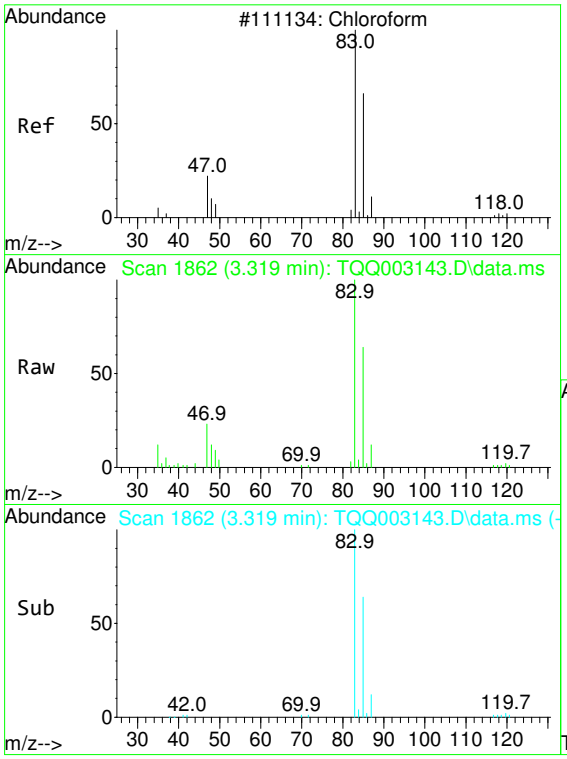


#29
Ethyl Acetate
Concen: 0.79 ppbv m
RT: 3.150 min Scan# 1721
Delta R.T. -0.009 min
Lab File: TQQ003143.D
Acq: 10 Jul 2026 10:07 pm

Tgt Ion: 43 Resp: 20354

Ion	Ratio	Lower	Upper
43	100		
61	15.5	2.8	25.4
70	11.7	2.2	20.2
88	0.0	0.0	9.4

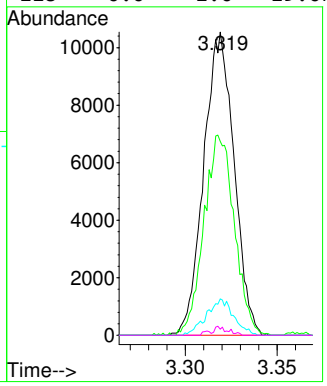


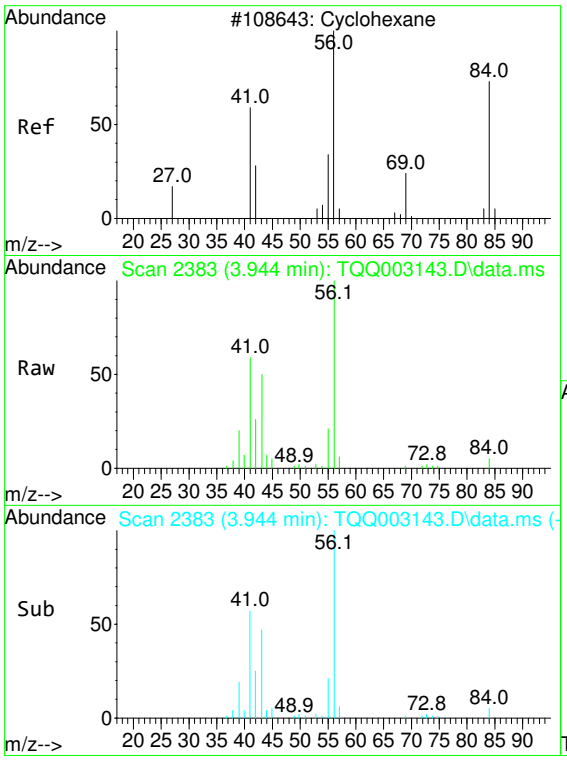


#30
Chloroform
Concen: 0.96 ppbv
RT: 3.319 min Scan# 1862
Delta R.T. -0.012 min
Lab File: TQQ003143.D
Acq: 10 Jul 2026 10:07 pm

Tgt Ion: 83 Resp: 12099

Ion	Ratio	Lower	Upper
83	100		
85	66.4	41.8	86.8
87	10.8	18.6	56.0#
118	0.0	1.0	19.0#

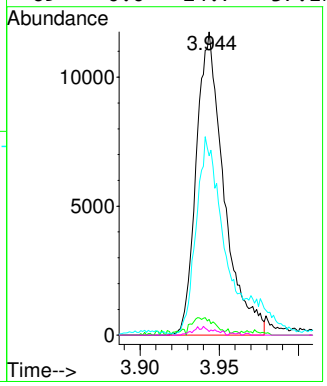


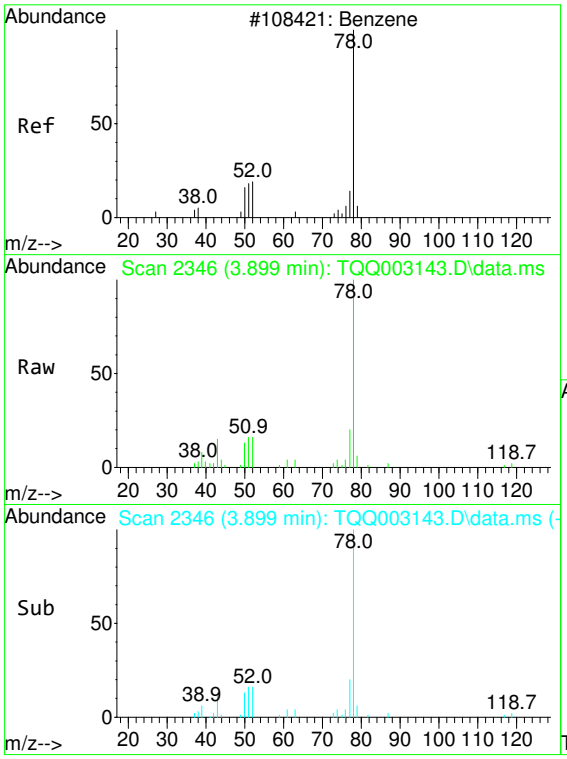


#34
Cyclohexane
Concen: 1.09 ppbv
RT: 3.944 min Scan# 2383
Delta R.T. -0.006 min
Lab File: TQQ003143.D
Acq: 10 Jul 2026 10:07 pm

Tgt Ion: 56 Resp: 14241

Ion	Ratio	Lower	Upper
56	100		
84	0.0	78.6	117.8#
41	63.3	45.8	68.6
69	0.0	24.7	37.1#

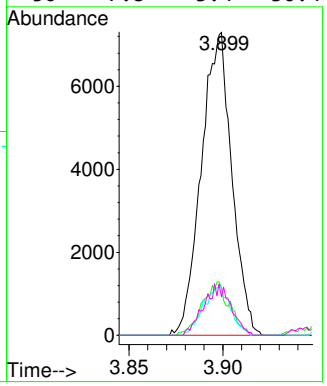


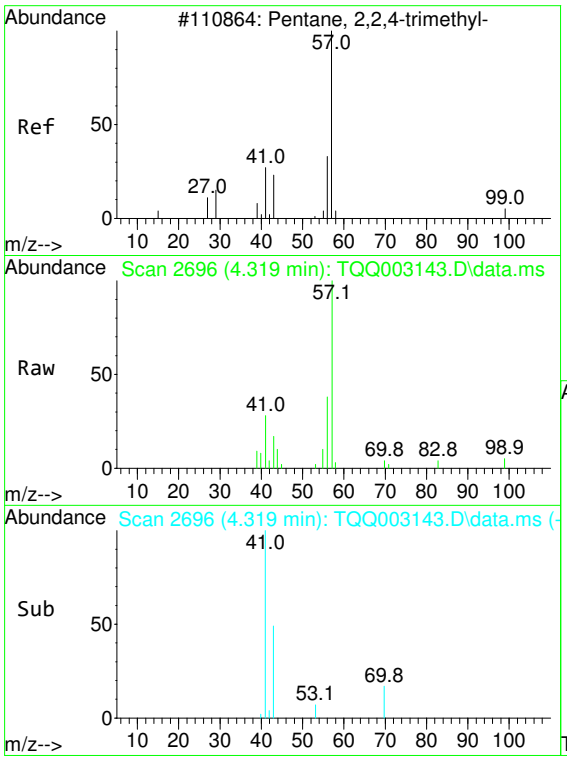


#35
Benzene
Concen: 0.31 ppbv
RT: 3.899 min Scan# 2346
Delta R.T. -0.009 min
Lab File: TQQ003143.D
Acq: 10 Jul 2026 10:07 pm

Tgt Ion: 78 Resp: 8223

Ion	Ratio	Lower	Upper
78	100		
51	15.9	3.9	35.1
52	14.4	3.6	32.0
50	7.8	3.4	30.4

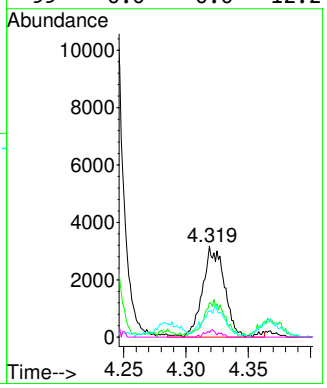


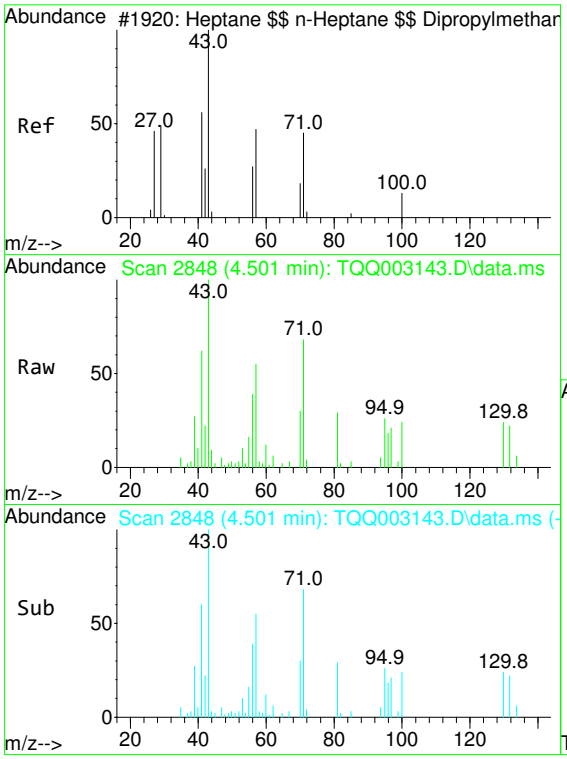


#37
2,2,4-Trimethylpentane
Concen: 0.10 ppbv m
RT: 4.319 min Scan# 2696
Delta R.T. -0.012 min
Lab File: TQQ003143.D
Acq: 10 Jul 2026 10:07 pm

Tgt Ion: 57 Resp: 3941

Ion	Ratio	Lower	Upper
57	100		
56	0.0	16.7	50.0#
41	0.0	10.6	42.4#
99	0.0	0.0	12.2

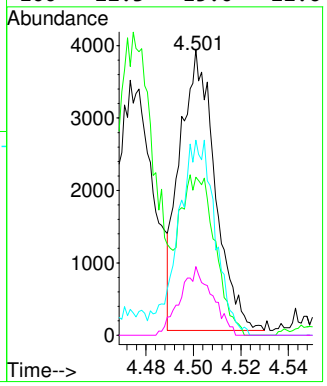


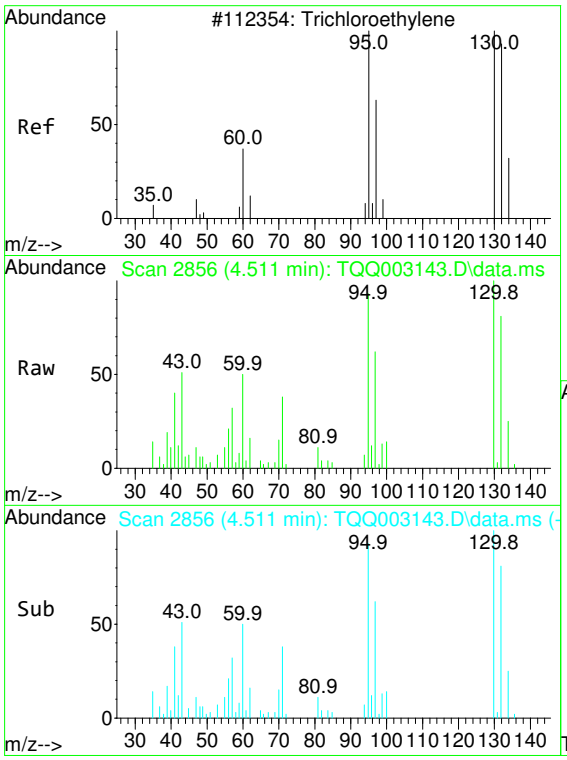


#39
n-Heptane
Concen: 0.32 ppbv
RT: 4.501 min Scan# 2848
Delta R.T. -0.010 min
Lab File: TQQ003143.D
Acq: 10 Jul 2026 10:07 pm

Tgt Ion: 43 Resp: 3994

Ion	Ratio	Lower	Upper
43	100		
57	0.0	38.9	58.3#
71	73.4	42.6	64.0#
100	22.3	15.0	22.6

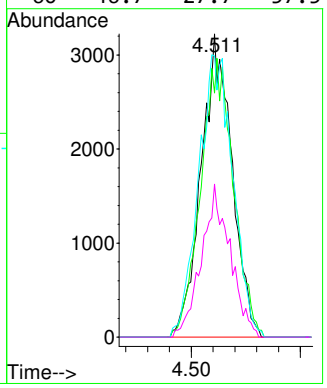


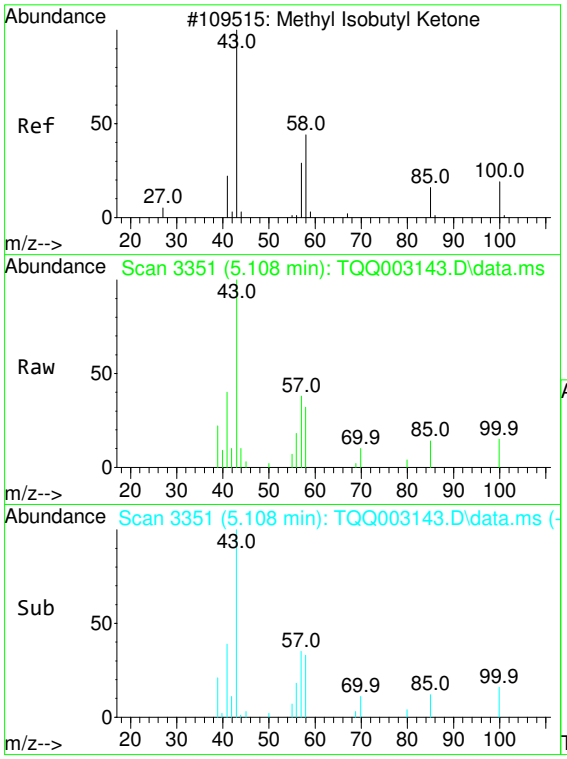


#41
Trichloroethylene
Concen: 0.32 ppbv
RT: 4.511 min Scan# 2856
Delta R.T. -0.009 min
Lab File: TQQ003143.D
Acq: 10 Jul 2026 10:07 pm

Tgt Ion:130 Resp: 3152

Ion	Ratio	Lower	Upper
130	100		
132	97.7	76.8	115.2
95	103.4	79.2	118.8
60	46.7	27.7	57.5

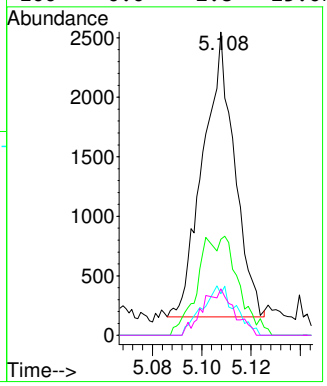


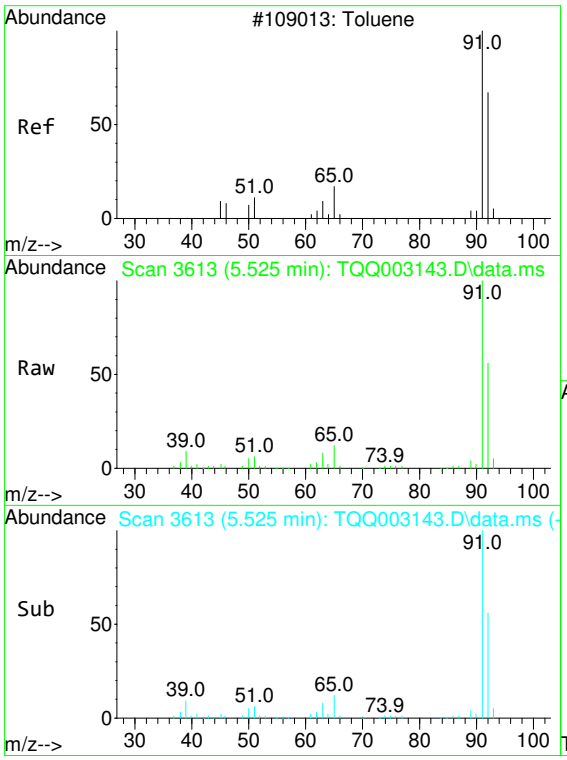


#46
4-Methyl-2-pentanone
Concen: 0.11 ppbv
RT: 5.108 min Scan# 3351
Delta R.T. -0.007 min
Lab File: TQQ003143.D
Acq: 10 Jul 2026 10:07 pm

Tgt Ion: 43 Resp: 1866

Ion	Ratio	Lower	Upper
43	100		
58	45.8	23.9	49.5
85	0.0	5.8	27.2#
100	0.0	2.8	25.0#

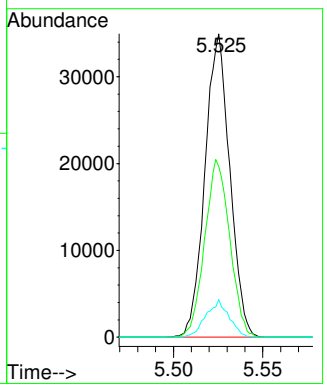


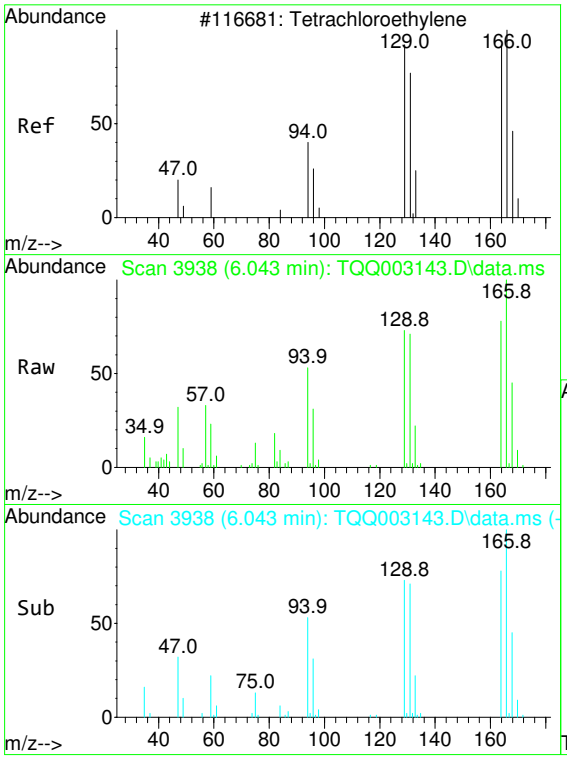


#48
Toluene
Concen: 1.17 ppbv
RT: 5.525 min Scan# 3613
Delta R.T. -0.005 min
Lab File: TQQ003143.D
Acq: 10 Jul 2026 10:07 pm

Tgt Ion: 91 Resp: 33765

Ion	Ratio	Lower	Upper
91	100		
92	58.9	47.1	70.7
65	11.4	2.3	21.1

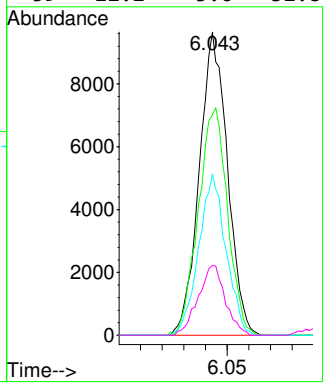


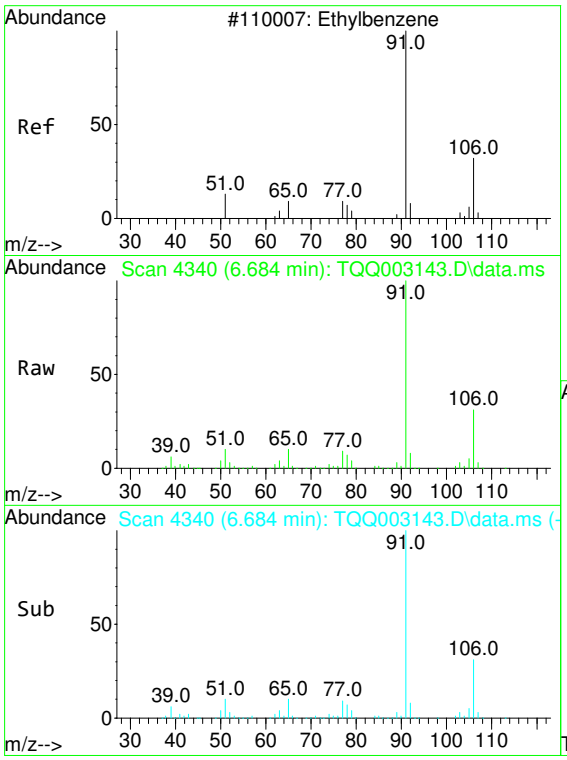


#54
Tetrachloroethylene
Concen: 0.68 ppbv
RT: 6.043 min Scan# 3938
Delta R.T. -0.005 min
Lab File: TQQ003143.D
Acq: 10 Jul 2026 10:07 pm

Tgt Ion:166 Resp: 8719

Ion	Ratio	Lower	Upper
166	100		
129	77.9	63.7	95.5
94	51.3	31.0	64.4
59	22.2	3.6	32.8

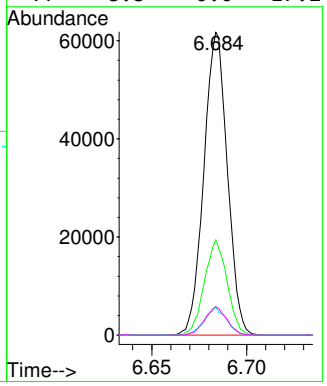


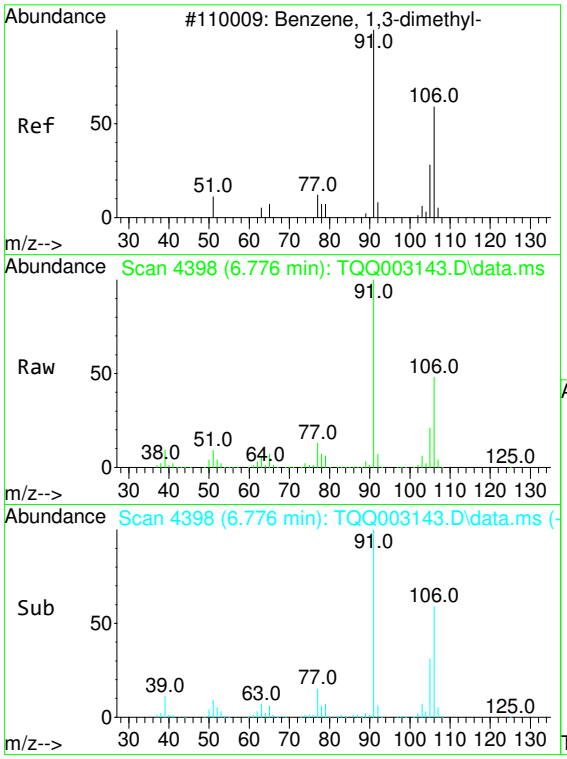


#58
Ethyl benzene
Concen: 1.36 ppbv
RT: 6.684 min Scan# 4340
Delta R.T. -0.002 min
Lab File: TQQ003143.D
Acq: 10 Jul 2026 10:07 pm

Tgt Ion: 91 Resp: 53257

Ion	Ratio	Lower	Upper
91	100		
106	30.5	21.5	44.6
65	8.7	0.0	17.2
77	8.8	0.0	17.2

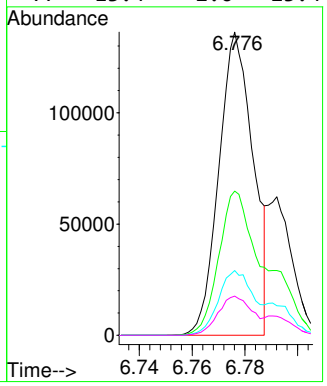


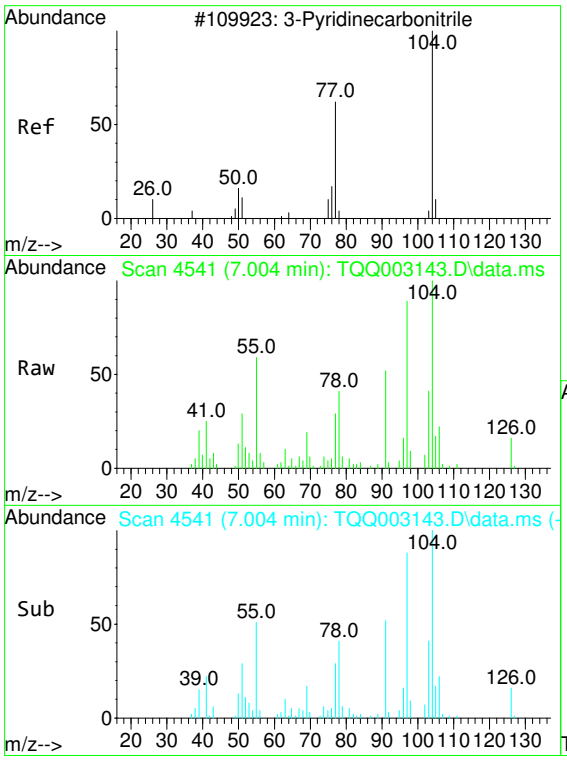


#59
p- & m- Xylenes
Concen: 7.70 ppbv
RT: 6.776 min Scan# 4398
Delta R.T. -0.004 min
Lab File: TQQ003143.D
Acq: 10 Jul 2026 10:07 pm

Tgt Ion: 91 Resp: 122512

Ion	Ratio	Lower	Upper
91	100		
106	64.6	40.8	61.2#
105	22.1	11.1	33.1
77	13.4	2.6	23.4

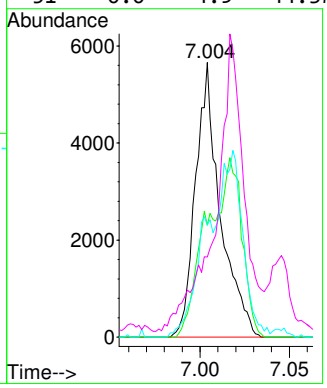


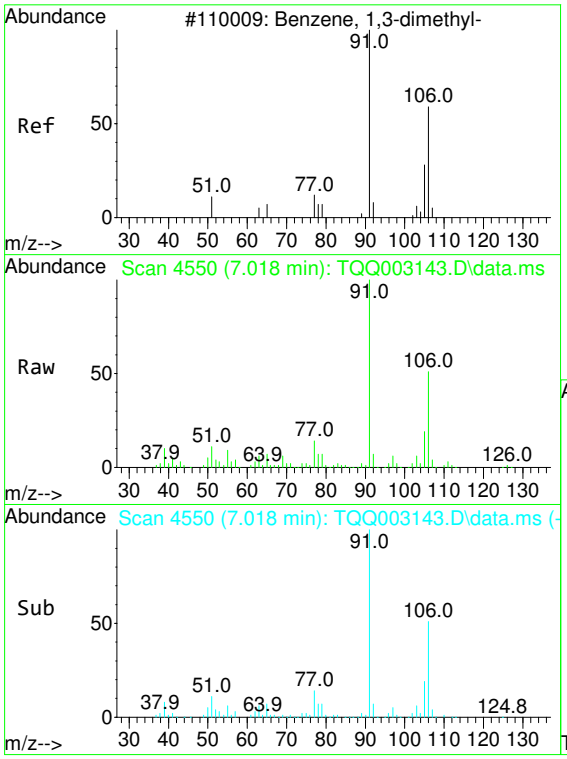


#61
Styrene
Concen: 0.23 ppbv
RT: 7.004 min Scan# 4541
Delta R.T. -0.001 min
Lab File: TQQ003143.D
Acq: 10 Jul 2026 10:07 pm

Tgt Ion:104 Resp: 5425

Ion	Ratio	Lower	Upper
104	100		
103	23.4	30.8	64.0#
78	31.9	27.2	56.4
51	0.0	4.9	44.3#

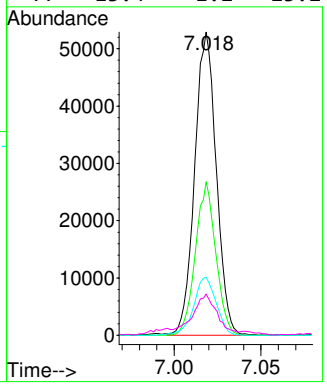


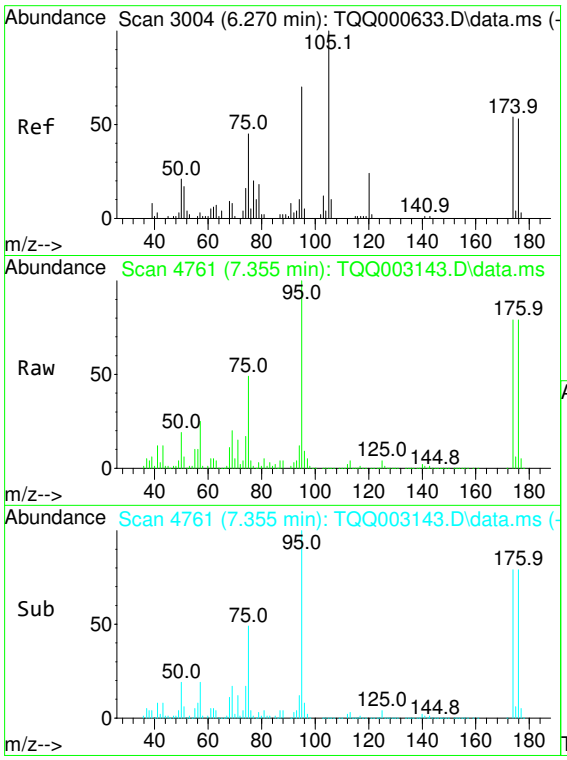


#62
o-Xylene
Concen: 1.33 ppbv
RT: 7.018 min Scan# 4550
Delta R.T. -0.002 min
Lab File: TQQ003143.D
Acq: 10 Jul 2026 10:07 pm

Tgt Ion: 91 Resp: 45786

Ion	Ratio	Lower	Upper
91	100		
106	47.5	38.6	57.8
105	20.0	3.8	34.0
77	13.4	1.2	23.2

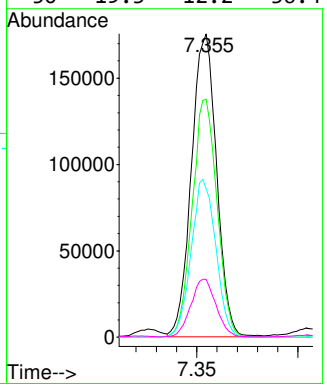


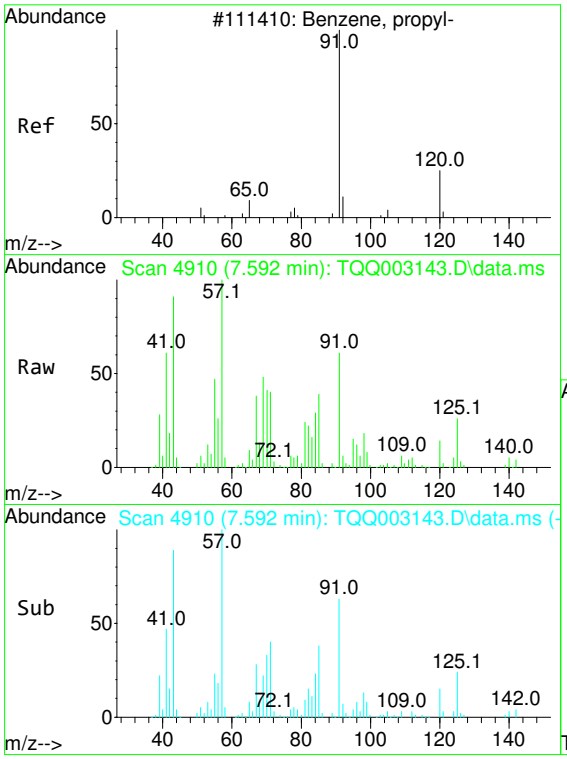


#64
p-Bromofluorobenzene
Concen: 9.77 ppbv
RT: 7.355 min Scan# 4761
Delta R.T. -0.001 min
Lab File: TQQ003143.D
Acq: 10 Jul 2026 10:07 pm

Tgt Ion: 95 Resp: 151415

Ion	Ratio	Lower	Upper
95	100		
174	77.7	58.4	87.6
75	51.1	38.6	58.0
50	19.3	12.2	36.4

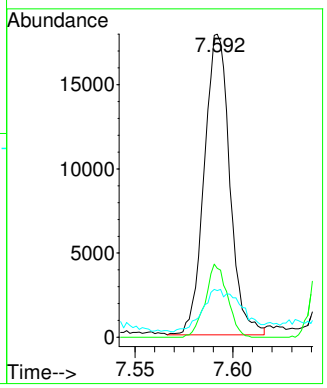


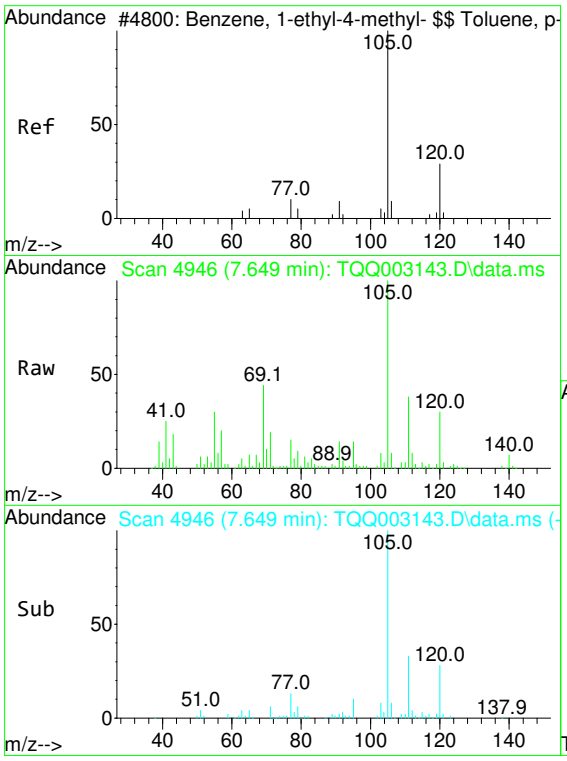


#66
n-Propylbenzene
Concen: 0.30 ppbv
RT: 7.592 min Scan# 4910
Delta R.T. -0.001 min
Lab File: TQQ003143.D
Acq: 10 Jul 2026 10:07 pm

Tgt Ion: 91 Resp: 16198

Ion	Ratio	Lower	Upper
91	100		
120	21.1	8.2	38.8
65	21.1	2.0	18.2#

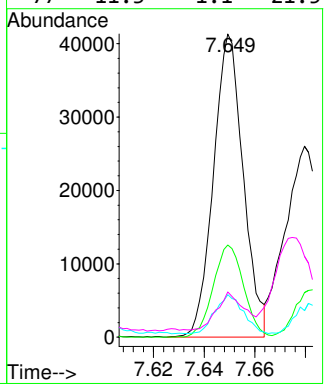


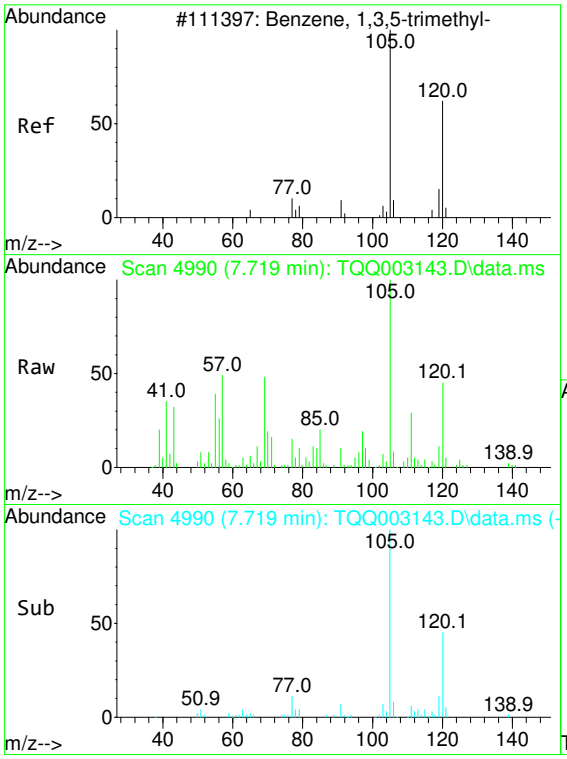


#67
p-Ethyltoluene
Concen: 0.78 ppbv
RT: 7.649 min Scan# 4946
Delta R.T. -0.033 min
Lab File: TQQ003143.D
Acq: 10 Jul 2026 10:07 pm

Tgt Ion:105 Resp: 33791

Ion	Ratio	Lower	Upper
105	100		
120	31.0	19.8	41.0
91	11.9	1.1	20.9
77	11.3	1.1	21.5

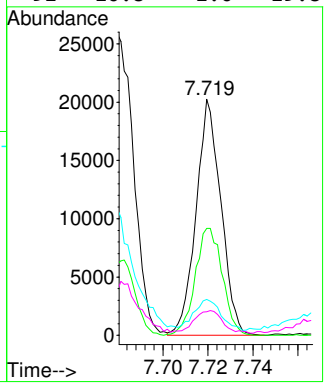


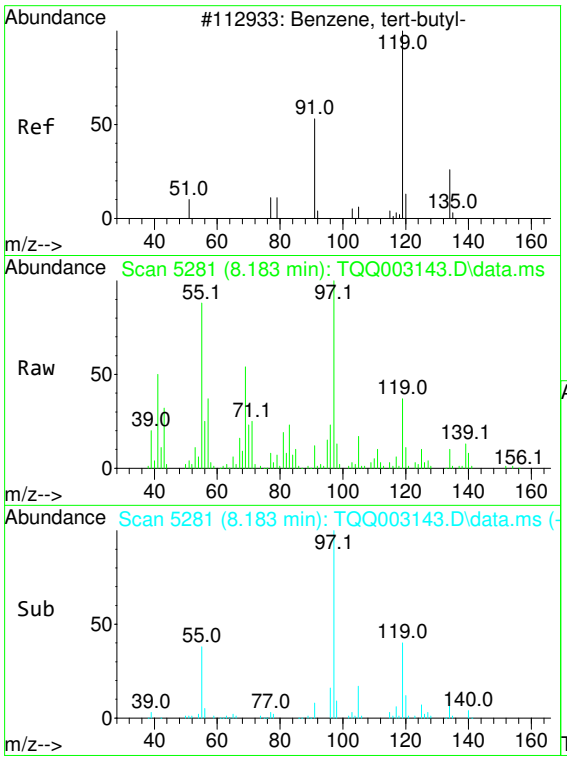


#68
1,3,5-Trimethylbenzene
Concen: 0.43 ppbv
RT: 7.719 min Scan# 4990
Delta R.T. -0.002 min
Lab File: TQQ003143.D
Acq: 10 Jul 2026 10:07 pm

Tgt Ion:105 Resp: 15568

Ion	Ratio	Lower	Upper
105	100		
120	49.3	39.9	59.9
77	13.8	1.3	23.9
91	10.8	1.0	19.8

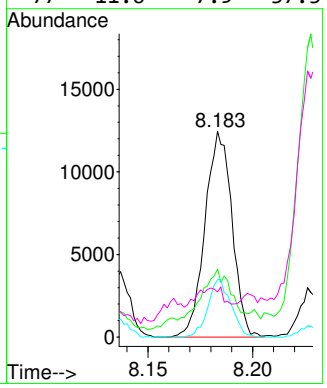


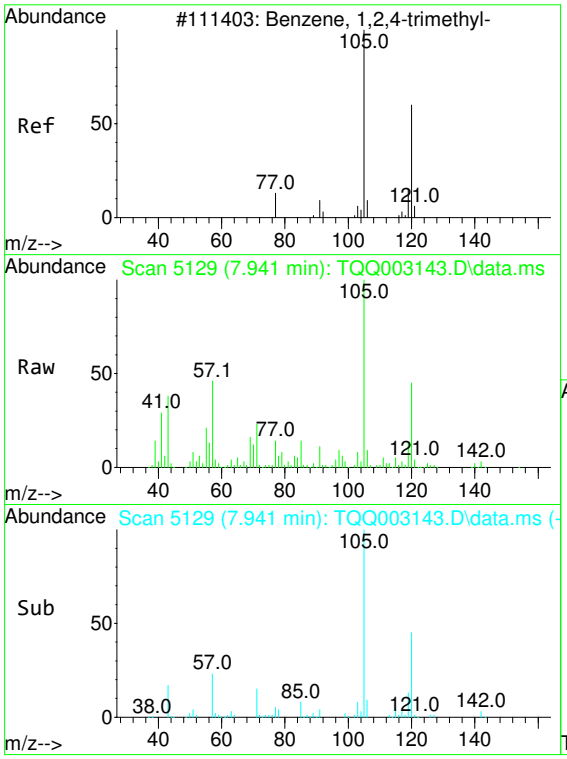


#69
tert-Butylbenzene
Concen: 0.25 ppbv
RT: 8.183 min Scan# 5281
Delta R.T. -0.001 min
Lab File: TQQ003143.D
Acq: 10 Jul 2026 10:07 pm

Tgt Ion:119 Resp: 11128

Ion	Ratio	Lower	Upper
119	100		
91	25.1	55.0	82.4#
134	24.1	7.9	37.1
77	11.6	7.9	37.3

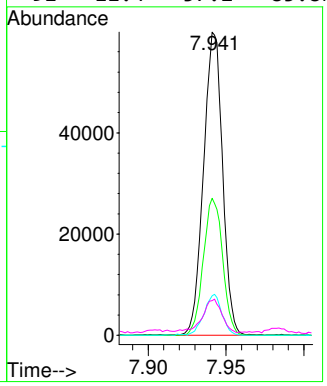


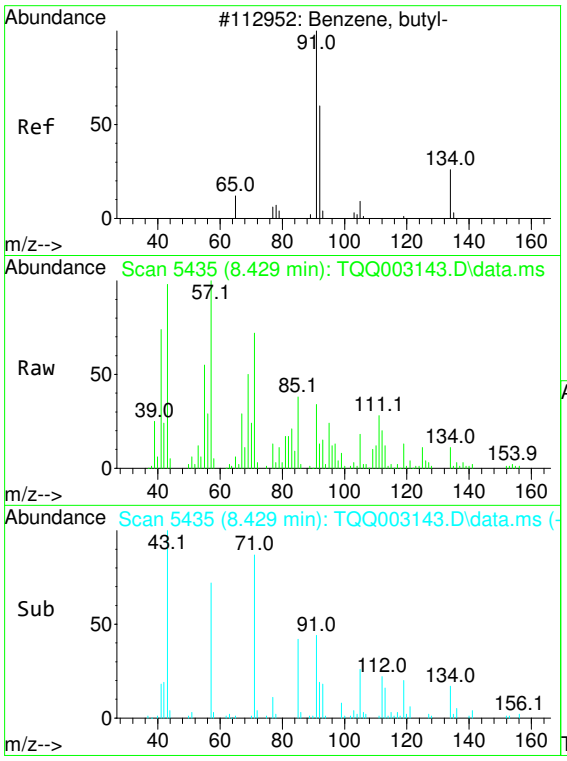


#70
1,2,4-Trimethylbenzene
Concen: 1.37 ppbv
RT: 7.941 min Scan# 5129
Delta R.T. -0.002 min
Lab File: TQQ003143.D
Acq: 10 Jul 2026 10:07 pm

Tgt Ion:105 Resp: 50935

Ion	Ratio	Lower	Upper
105	100		
120	45.7	44.9	67.3
119	12.7	83.3	124.9#
91	11.4	57.2	85.8#

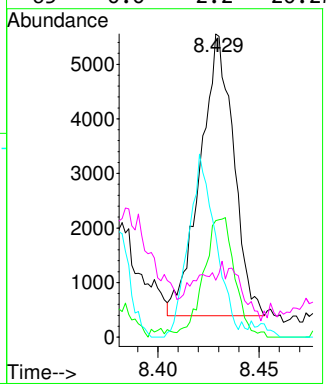


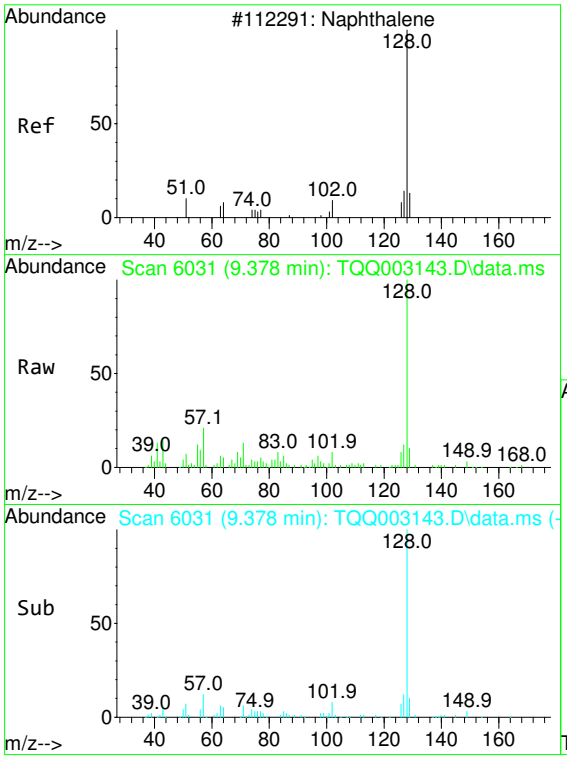


#77
n-Butylbenzene
Concen: 0.13 ppbv
RT: 8.429 min Scan# 5435
Delta R.T. 0.001 min
Lab File: TQQ003143.D
Acq: 10 Jul 2026 10:07 pm

Tgt Ion: 91 Resp: 5910

Ion	Ratio	Lower	Upper
91	100		
92	39.3	44.1	66.1#
134	52.8	17.3	35.9#
65	0.0	2.2	20.2#

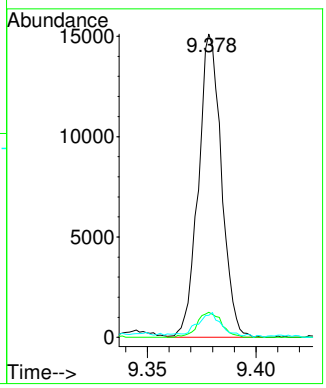




#79
Naphthalene
Concen: 0.18 ppbv
RT: 9.378 min Scan# 6031
Delta R.T. -0.001 min
Lab File: TQQ003143.D
Acq: 10 Jul 2026 10:07 pm

Tgt Ion:128 Resp: 11160

Ion	Ratio	Lower	Upper
128	100		
102	8.8	0.0	16.8
51	7.2	0.0	14.4



Sample Information

Client Sample ID: **IA-9 20260708** **Sample ID:** **26G0459-03RE1**

Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
26G0459	152 Graham Avenue Brooklyn, NY 240052	Indoor Ambient Air	July 8, 2026 2:27 pm	07/08/2026

Analyzed by: **ALS Environmental - Queens**

Volatile Organic Compounds in Air by GC/MS

Sample Prepared by Method: EPA TO15 PREP

Results Reported to MDL

CAS No.	Parameter	Result	Lab Qualifier	CLP Flag	Units	RL	MDL	Dilution	Reference Method	Prepared	Analyzed Date	By
67-64-1	**Acetone**	120		D	ug/m³	21	2.2	1.763	EPA TO-15	7/13/26 8:00	7/13/26 16:43	YR

Quantitation Report (QT Reviewed)

Data Path : C:\MassHunter\GCMS\1\data\2026\7-JULY\071326\
Data File : TQQ003166.D
Acq On : 13 Jul 2026 04:43 pm
Operator : YR
Sample : 26G0459-03RE1
Misc : 1X
ALS Vial : 1 Sample Multiplier: 1.763

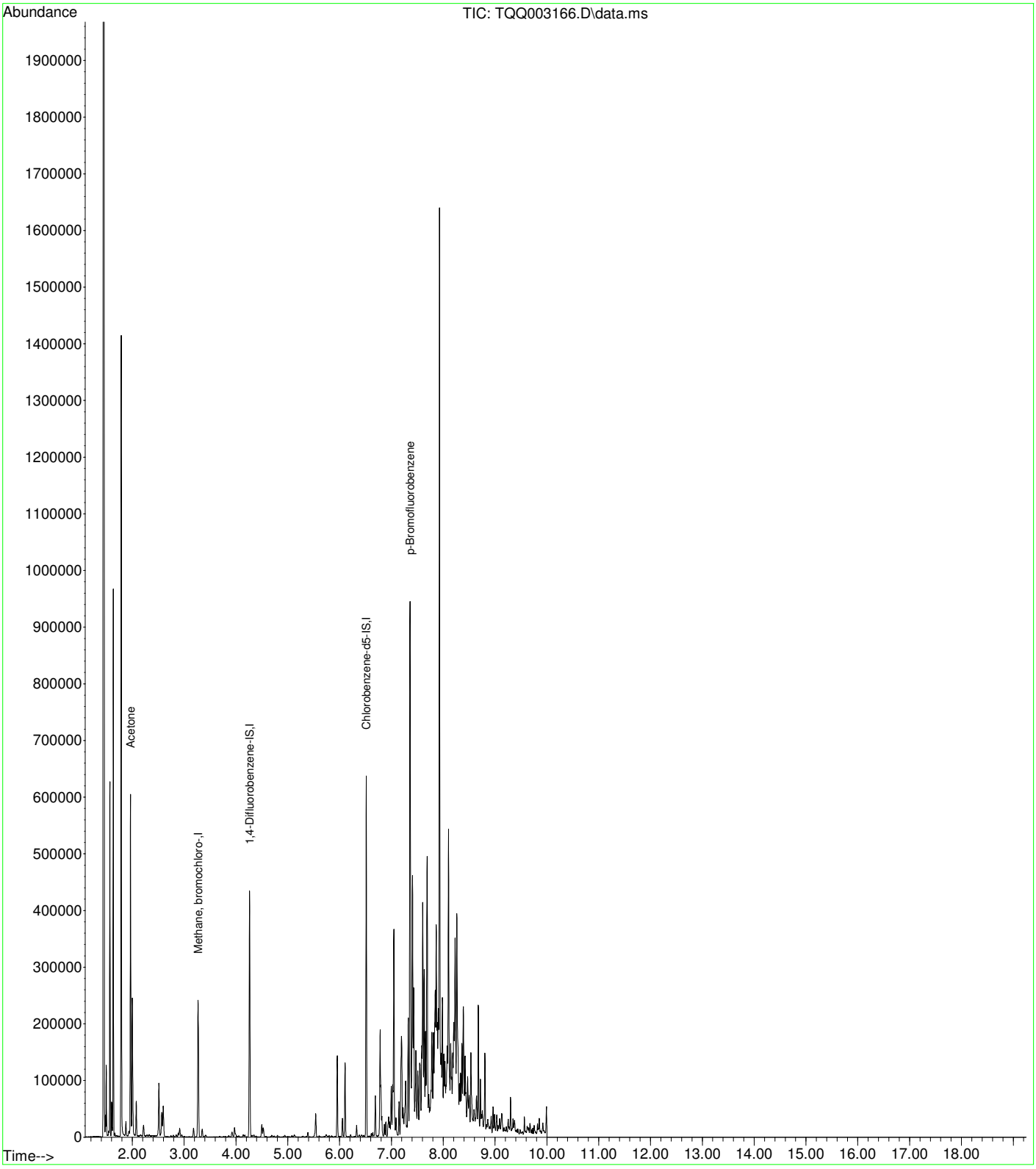
Quant Time: Jul 13 17:41:33 2026
Quant Method : C:\MassHunter\GCMS\1\methods\QA4 01JUNE2026(updated070726).m
Quant Title : TO-15
QLast Update : Tue Jul 07 14:14:35 2026
Response via : Initial Calibration

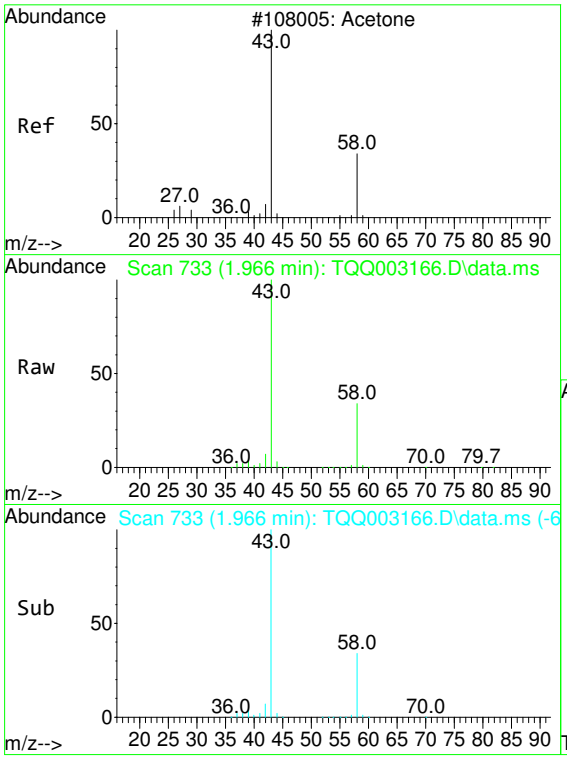
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Methane, bromochloro-	3.270	130	52942	10.00	ppbv	# 0.02
38) 1,4-Difluorobenzene-IS	4.263	114	202281	10.00	ppbv	0.01
55) Chlorobenzene-d5-IS	6.515	117	189366	10.00	ppbv	0.00
Target Compounds						Qvalue
14) Acetone	1.966	58	104868	29.83	ppbv	60
64) p-Bromofluorobenzene	7.358	95	138793	9.50	ppbv	94

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

Data Path : C:\MassHunter\GCMS\1\data\2026\7-JULY\071326\
Data File : TQQ003166.D
Acq On : 13 Jul 2026 04:43 pm
Operator : YR
Sample : 26G0459-03RE1
Misc : 1X
ALS Vial : 1 Sample Multiplier: 1.763

Quant Time: Jul 13 17:41:33 2026
Quant Method : C:\MassHunter\GCMS\1\methods\QA4 01JUNE2026(updated070726).m
Quant Title : TO-15
QLast Update : Tue Jul 07 14:14:35 2026
Response via : Initial Calibration

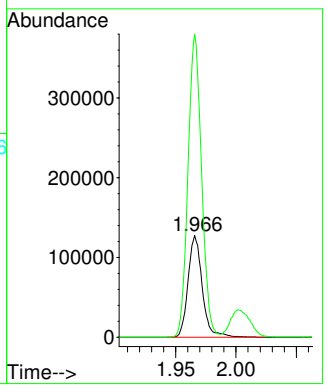


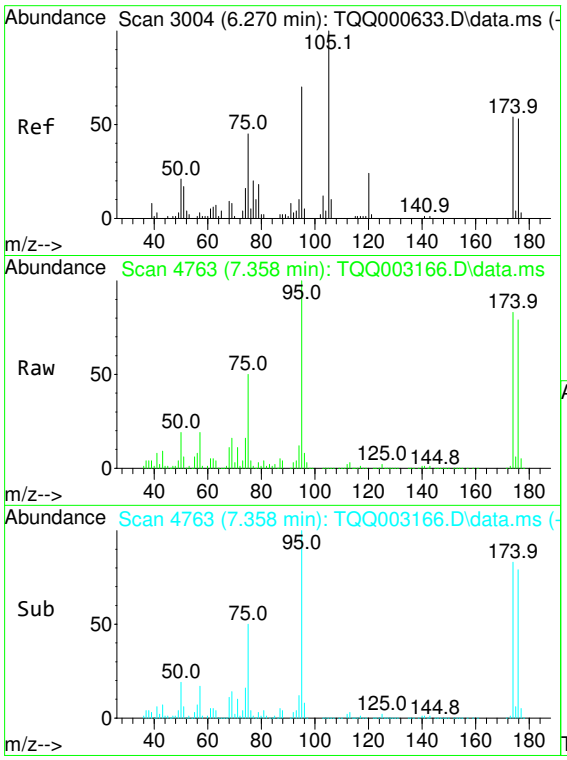


#14
Acetone
Concen: 29.83 ppbv
RT: 1.966 min Scan# 733
Delta R.T. 0.012 min
Lab File: TQQ003166.D
Acq: 13 Jul 2026 04:43 pm

Tgt Ion: 58 Resp: 104868

Ion	Ratio	Lower	Upper
58	100		
43	284.5	0.0	750.2

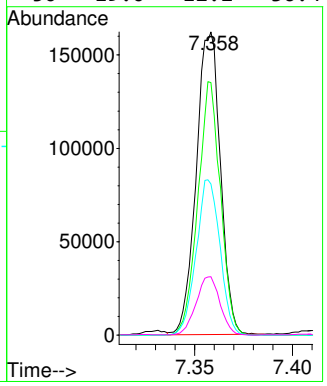




#64
p-Bromofluorobenzene
Concen: 9.50 ppbv
RT: 7.358 min Scan# 4763
Delta R.T. 0.003 min
Lab File: TQQ003166.D
Acq: 13 Jul 2026 04:43 pm

Tgt Ion: 95 Resp: 138793

Ion	Ratio	Lower	Upper
95	100		
174	78.4	58.4	87.6
75	50.6	38.6	58.0
50	19.0	12.2	36.4



Sample Information

Client Sample ID: **IA-10 20260708** **Sample ID:** **26G0459-04**

Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
26G0459	152 Graham Avenue Brooklyn, NY 240052	Indoor Ambient Air	July 8, 2026 2:23 pm	07/08/2026

Analyzed by: **ALS Environmental - Queens**

Volatile Organic Compounds in Air by GC/MS

Sample Prepared by Method: EPA TO15 PREP

Results Reported to MDL

CAS No.	Parameter	Result	Lab Qualifier	CLP Flag	Units	RL	MDL	Dilution	Reference Method	Prepared	Analyzed Date	By
540-84-1	**^2,2,4-Trimethylpentane**	0.75		D	ug/m³	0.22	0.22	0.944	EPA TO-15	7/9/26 8:00	7/10/26 22:54	YR
91-20-3	**^Naphthalene**	1.4		D	ug/m³	4.9	0.34	0.944	EPA TO-15	7/9/26 8:00	7/10/26 22:54	YR
630-20-6	1,1,1,2-Tetrachloroethane	ND		U	ug/m³	0.65	0.20	0.944	EPA TO-15	7/9/26 8:00	7/10/26 22:54	YR
71-55-6	1,1,1-Trichloroethane	ND		U	ug/m³	0.52	0.18	0.944	EPA TO-15	7/9/26 8:00	7/10/26 22:54	YR
79-34-5	1,1,2,2-Tetrachloroethane	ND		U	ug/m³	0.65	0.18	0.944	EPA TO-15	7/9/26 8:00	7/10/26 22:54	YR
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		U	ug/m³	0.72	0.26	0.944	EPA TO-15	7/9/26 8:00	7/10/26 22:54	YR
79-00-5	1,1,2-Trichloroethane	ND		U	ug/m³	0.52	0.18	0.944	EPA TO-15	7/9/26 8:00	7/10/26 22:54	YR
75-34-3	1,1-Dichloroethane	ND		U	ug/m³	0.38	0.16	0.944	EPA TO-15	7/9/26 8:00	7/10/26 22:54	YR
75-35-4	1,1-Dichloroethylene	ND		U	ug/m³	0.19	0.16	0.944	EPA TO-15	7/9/26 8:00	7/10/26 22:54	YR
120-82-1	1,2,4-Trichlorobenzene	ND		U	ug/m³	35	0.27	0.944	EPA TO-15	7/9/26 8:00	7/10/26 22:54	YR
95-63-6	**1,2,4-Trimethylbenzene**	6.3		D	ug/m³	0.46	0.16	0.944	EPA TO-15	7/9/26 8:00	7/10/26 22:54	YR
106-93-4	1,2-Dibromoethane	ND		U	ug/m³	0.73	0.23	0.944	EPA TO-15	7/9/26 8:00	7/10/26 22:54	YR
95-50-1	1,2-Dichlorobenzene	ND		U	ug/m³	0.57	0.17	0.944	EPA TO-15	7/9/26 8:00	7/10/26 22:54	YR
107-06-2	1,2-Dichloroethane	ND		U	ug/m³	0.38	0.18	0.944	EPA TO-15	7/9/26 8:00	7/10/26 22:54	YR
78-87-5	1,2-Dichloropropane	ND		U	ug/m³	0.44	0.15	0.944	EPA TO-15	7/9/26 8:00	7/10/26 22:54	YR
76-14-2	1,2-Dichlorotetrafluoroethane	ND		U	ug/m³	0.66	0.34	0.944	EPA TO-15	7/9/26 8:00	7/10/26 22:54	YR
108-67-8	**1,3,5-Trimethylbenzene**	2.2		D	ug/m³	0.46	0.071	0.944	EPA TO-15	7/9/26 8:00	7/10/26 22:54	YR
106-99-0	**1,3-Butadiene**	4.8		D	ug/m³	0.63	0.065	0.944	EPA TO-15	7/9/26 8:00	7/10/26 22:54	YR
541-73-1	1,3-Dichlorobenzene	ND		U	ug/m³	0.57	0.16	0.944	EPA TO-15	7/9/26 8:00	7/10/26 22:54	YR
142-28-9	1,3-Dichloropropane	ND		U	ug/m³	0.44	0.14	0.944	EPA TO-15	7/9/26 8:00	7/10/26 22:54	YR
106-46-7	1,4-Dichlorobenzene	ND		U	ug/m³	0.57	0.14	0.944	EPA TO-15	7/9/26 8:00	7/10/26 22:54	YR
123-91-1	1,4-Dioxane	ND		U	ug/m³	1.7	0.36	0.944	EPA TO-15	7/9/26 8:00	7/10/26 22:54	YR
78-93-3	**2-Butanone**	4.9		D	ug/m³	14	0.47	0.944	EPA TO-15	7/9/26 8:00	7/10/26 22:54	YR
591-78-6	**2-Hexanone**	0.43		D	ug/m³	0.77	0.21	0.944	EPA TO-15	7/9/26 8:00	7/10/26 22:54	YR
107-05-1	3-Chloropropene	ND		U	ug/m³	1.5	0.12	0.944	EPA TO-15	7/9/26 8:00	7/10/26 22:54	YR
108-10-1	4-Methyl-2-pentanone	ND		U	ug/m³	0.39	0.17	0.944	EPA TO-15	7/9/26 8:00	7/10/26 22:54	YR
67-64-1	**Acetone**	56		D	ug/m³	11	1.2	0.944	EPA TO-15	7/9/26 8:00	7/10/26 22:54	YR
107-13-1	Acrylonitrile	ND		U	ug/m³	10	2.0	0.944	EPA TO-15	7/9/26 8:00	7/10/26 22:54	YR
71-43-2	**Benzene**	0.66		D	ug/m³	0.30	0.11	0.944	EPA TO-15	7/9/26 8:00	7/10/26 22:54	YR
100-44-7	Benzyl chloride	ND		U	ug/m³	12	0.15	0.944	EPA TO-15	7/9/26 8:00	7/10/26 22:54	YR
75-27-4	Bromodichloromethane	ND		U	ug/m³	0.63	0.19	0.944	EPA TO-15	7/9/26 8:00	7/10/26 22:54	YR
75-25-2	Bromoform	ND		U	ug/m³	0.98	0.41	0.944	EPA TO-15	7/9/26 8:00	7/10/26 22:54	YR
74-83-9	Bromomethane	ND		U	ug/m³	0.37	0.16	0.944	EPA TO-15	7/9/26 8:00	7/10/26 22:54	YR

Sample Information

Client Sample ID: **IA-10 20260708** **Sample ID:** **26G0459-04**

Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
26G0459	152 Graham Avenue Brooklyn, NY 240052	Indoor Ambient Air	July 8, 2026 2:23 pm	07/08/2026

Analyzed by: **ALS Environmental - Queens**

Volatile Organic Compounds in Air by GC/MS

Sample Prepared by Method: EPA TO15 PREP

Results Reported to MDL

CAS No.	Parameter	Result	Lab Qualifier	CLP Flag	Units	RL	MDL	Dilution	Reference Method	Prepared	Analyzed Date	By
75-15-0	Carbon disulfide	ND		U	ug/m³	0.29	0.076	0.944	EPA TO-15	7/9/26 8:00	7/10/26 22:54	YR
56-23-5	Carbon tetrachloride	ND		U	ug/m³	0.18	0.18	0.944	EPA TO-15	7/9/26 8:00	7/10/26 22:54	YR
108-90-7	Chlorobenzene	ND		U	ug/m³	0.43	0.17	0.944	EPA TO-15	7/9/26 8:00	7/10/26 22:54	YR
75-00-3	Chloroethane	ND		U	ug/m³	0.25	0.14	0.944	EPA TO-15	7/9/26 8:00	7/10/26 22:54	YR
67-66-3	**Chloroform**	6.5		D	ug/m³	0.46	0.13	0.944	EPA TO-15	7/9/26 8:00	7/10/26 22:54	YR
74-87-3	**Chloromethane**	1.1		D	ug/m³	0.19	0.14	0.944	EPA TO-15	7/9/26 8:00	7/10/26 22:54	YR
156-59-2	cis-1,2-Dichloroethylene	ND		U	ug/m³	0.19	0.096	0.944	EPA TO-15	7/9/26 8:00	7/10/26 22:54	YR
10061-01-5	cis-1,3-Dichloropropylene	ND		U	ug/m³	0.43	0.17	0.944	EPA TO-15	7/9/26 8:00	7/10/26 22:54	YR
110-82-7	**Cyclohexane**	2.7		D	ug/m³	0.32	0.23	0.944	EPA TO-15	7/9/26 8:00	7/10/26 22:54	YR
124-48-1	Dibromochloromethane	ND		U	ug/m³	0.80	0.33	0.944	EPA TO-15	7/9/26 8:00	7/10/26 22:54	YR
75-71-8	**Dichlorodifluoromethane**	1.6		D	ug/m³	0.47	0.26	0.944	EPA TO-15	7/9/26 8:00	7/10/26 22:54	YR
141-78-6	**Ethyl acetate**	2.6	TO-CCV	D	ug/m³	17	0.20	0.944	EPA TO-15	7/9/26 8:00	7/10/26 22:54	YR
100-41-4	**Ethyl Benzene**	9.2		D	ug/m³	0.41	0.14	0.944	EPA TO-15	7/9/26 8:00	7/10/26 22:54	YR
87-68-3	Hexachlorobutadiene	ND		U	ug/m³	1.0	0.38	0.944	EPA TO-15	7/9/26 8:00	7/10/26 22:54	YR
67-63-0	**Isopropanol**	20		D	ug/m³	1.4	0.056	0.944	EPA TO-15	7/9/26 8:00	7/10/26 22:54	YR
80-62-6	**Methyl Methacrylate**	0.46		D	ug/m³	0.39	0.24	0.944	EPA TO-15	7/9/26 8:00	7/10/26 22:54	YR
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		U	ug/m³	0.34	0.10	0.944	EPA TO-15	7/9/26 8:00	7/10/26 22:54	YR
75-09-2	Methylene chloride	ND		U	ug/m³	2.0	0.11	0.944	EPA TO-15	7/9/26 8:00	7/10/26 22:54	YR
142-82-5	**n-Heptane**	0.74		D	ug/m³	0.39	0.15	0.944	EPA TO-15	7/9/26 8:00	7/10/26 22:54	YR
110-54-3	**n-Hexane**	0.57		D	ug/m³	0.33	0.10	0.944	EPA TO-15	7/9/26 8:00	7/10/26 22:54	YR
95-47-6	**o-Xylene**	9.0		D	ug/m³	0.41	0.14	0.944	EPA TO-15	7/9/26 8:00	7/10/26 22:54	YR
179601-23-1	**p- & m- Xylenes**	71	TO-MPX	D	ug/m³	0.82	0.21	0.944	EPA TO-15	7/9/26 8:00	7/10/26 22:54	YR
622-96-8	**p-Ethyltoluene**	3.4		D	ug/m³	0.46	0.16	0.944	EPA TO-15	7/9/26 8:00	7/10/26 22:54	YR
115-07-1	Propylene	ND	TO-CCV, TO-LCS-L	U	ug/m³	0.16	0.093	0.944	EPA TO-15	7/9/26 8:00	7/10/26 22:54	YR
100-42-5	Styrene	ND		U	ug/m³	0.40	0.12	0.944	EPA TO-15	7/9/26 8:00	7/10/26 22:54	YR
127-18-4	**Tetrachloroethylene**	2.7		D	ug/m³	0.64	0.15	0.944	EPA TO-15	7/9/26 8:00	7/10/26 22:54	YR
109-99-9	Tetrahydrofuran	ND		U	ug/m³	0.56	0.094	0.944	EPA TO-15	7/9/26 8:00	7/10/26 22:54	YR
108-88-3	**Toluene**	2.8		D	ug/m³	0.36	0.14	0.944	EPA TO-15	7/9/26 8:00	7/10/26 22:54	YR
156-60-5	trans-1,2-Dichloroethylene	ND		U	ug/m³	0.37	0.090	0.944	EPA TO-15	7/9/26 8:00	7/10/26 22:54	YR
10061-02-6	trans-1,3-Dichloropropylene	ND		U	ug/m³	0.43	0.17	0.944	EPA TO-15	7/9/26 8:00	7/10/26 22:54	YR
79-01-6	**Trichloroethylene**	1.3		D	ug/m³	0.15	0.15	0.944	EPA TO-15	7/9/26 8:00	7/10/26 22:54	YR
75-69-4	**Trichlorofluoromethane (Freon 11)**	1.1		D	ug/m³	0.53	0.19	0.944	EPA TO-15	7/9/26 8:00	7/10/26 22:54	YR
108-05-4	Vinyl acetate	ND	TO-LCS-L	U	ug/m³	0.33	0.17	0.944	EPA TO-15	7/9/26 8:00	7/10/26 22:54	YR

Sample Information

Client Sample ID: **IA-10 20260708** **Sample ID:** **26G0459-04**

Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
26G0459	152 Graham Avenue Brooklyn, NY 240052	Indoor Ambient Air	July 8, 2026 2:23 pm	07/08/2026

Analyzed by: **ALS Environmental - Queens**

Volatile Organic Compounds in Air by GC/MS

Sample Prepared by Method: EPA TO15 PREP

Results Reported to MDL

CAS No.	Parameter	Result	Lab Qualifier	CLP Flag	Units	RL	MDL	Dilution	Reference Method	Prepared	Analyzed Date	By
593-60-2	Vinyl bromide	ND		U	ug/m³	0.41	0.14	0.944	EPA TO-15	7/9/26 8:00	7/10/26 22:54	YR
75-01-4	Vinyl Chloride	ND		U	ug/m³	0.12	0.097	0.944	EPA TO-15	7/9/26 8:00	7/10/26 22:54	YR

Quantitation Report (QT Reviewed)

Data Path : C:\MassHunter\GCMS\1\data\2026\7-JULY\071026\
Data File : TQQ003144.D
Acq On : 10 Jul 2026 10:54 pm
Operator : YR
Sample : 26G0459-04
Misc : .533X
ALS Vial : 1 Sample Multiplier: 0.944

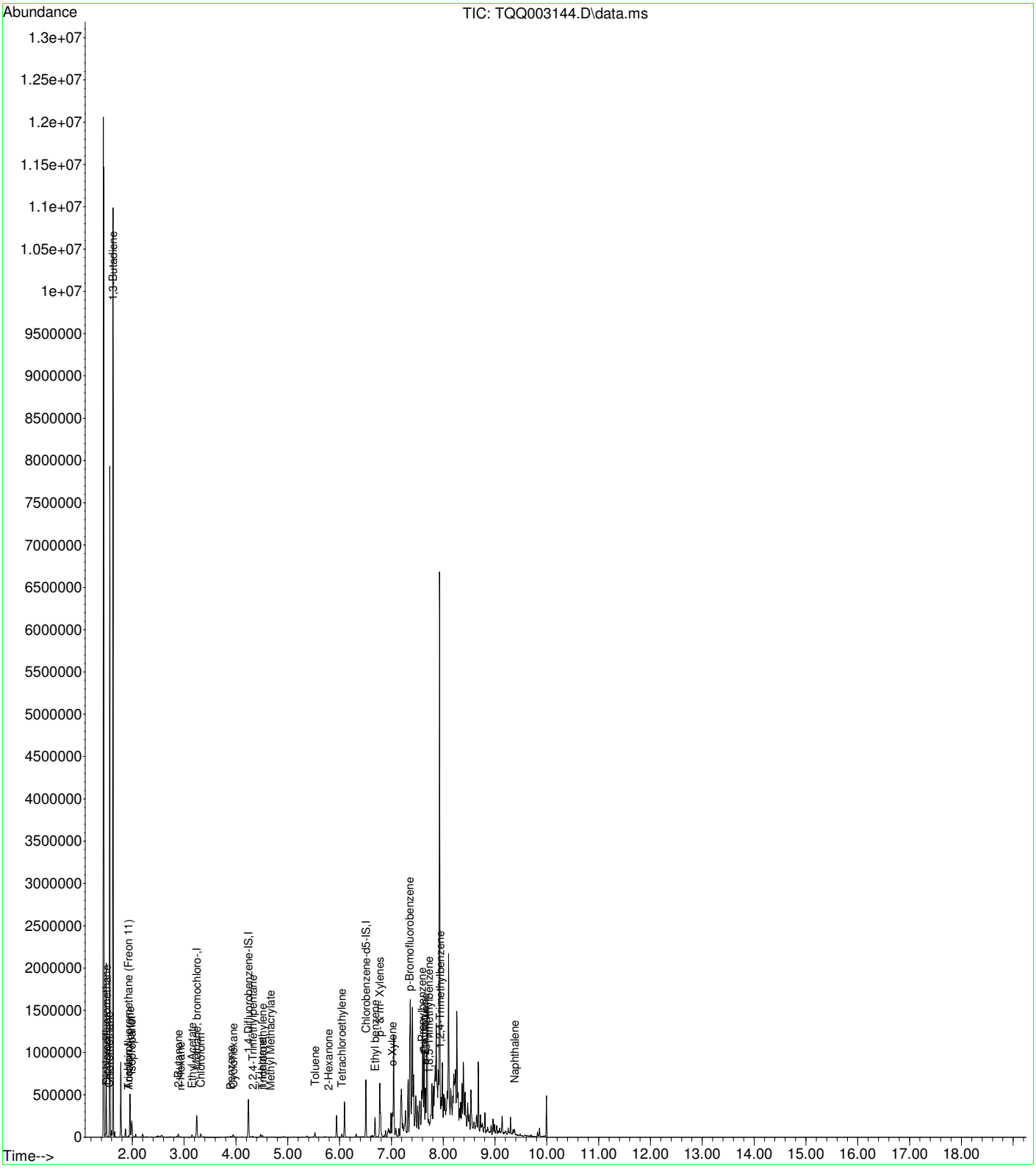
Quant Time: Jul 12 11:50:18 2026
Quant Method : C:\MassHunter\GCMS\1\methods\QA4 01JUNE2026(updated070726).m
Quant Title : TO-15
QLast Update : Tue Jul 07 14:14:35 2026
Response via : Initial Calibration

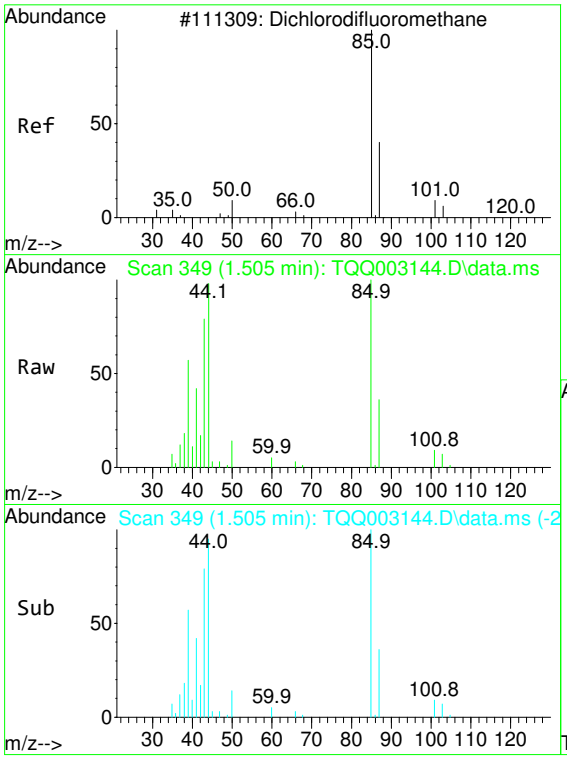
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Methane, bromochloro-	3.244	130	55226	10.00	ppbv	#	0.00
38) 1,4-Difluorobenzene-IS	4.239	114	212875	10.00	ppbv		0.00
55) Chlorobenzene-d5-IS	6.507	117	198936	10.00	ppbv		0.00
Target Compounds							Qvalue
3) Dichlorodifluoromethane	1.505	85	6216	0.35	ppbv		97
5) Chloromethane	1.552	50	3909	0.55	ppbv	#	84
7) 1,3-Butadiene	1.628	54	11041	2.29	ppbv	#	1
12) Trichlorofluoromethane...	1.921	101	3560	0.20	ppbv	#	90
13) Acrolein	1.930	56	2714	1.34	ppbv	#	94
14) Acetone	1.956	58	91839	25.05	ppbv		57
15) Isopropanol	1.988	45	95688	8.59	ppbv	#	51
26) 2-Butanone	2.886	72	7325	1.76	ppbv	#	1
27) n-Hexane	2.929	57	1999	0.17	ppbv	#	93
29) Ethyl Acetate	3.150	43	19366	0.76	ppbv		98
30) Chloroform	3.320	83	17515	1.41	ppbv	#	78
34) Cyclohexane	3.946	56	10857	0.84	ppbv	#	39
35) Benzene	3.899	78	5592	0.22	ppbv		90
37) 2,2,4-Trimethylpentane	4.324	57	6136	0.17	ppbv	#	81
39) n-Heptane	4.503	43	2370	0.19	ppbv	#	83
41) Trichloroethylene	4.514	130	2528	0.26	ppbv		96
44) Methyl Methacrylate	4.667	41	1151	0.12	ppbv	#	81
48) Toluene	5.526	91	21977	0.78	ppbv		100
51) 2-Hexanone	5.787	43	1742	0.11	ppbv	#	89
54) Tetrachloroethylene	6.044	166	5238	0.42	ppbv		95
58) Ethyl benzene	6.684	91	87056	2.25	ppbv		98
59) p- & m- Xylenes	6.777	91	273326	17.37	ppbv	#	89
62) o-Xylene	7.019	91	74218	2.19	ppbv		98
64) p-Bromofluorobenzene	7.353	95	147588	9.62	ppbv		94
66) n-Propylbenzene	7.591	91	17269	0.33	ppbv		92
67) p-Ethyltoluene	7.650	105	32121	0.74	ppbv		98
68) 1,3,5-Trimethylbenzene	7.722	105	16864	0.47	ppbv		98
70) 1,2,4-Trimethylbenzene	7.941	105	49775	1.36	ppbv	#	34
79) Naphthalene	9.379	128	16914	0.28	ppbv		99

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

Data Path : C:\MassHunter\GCMS\1\data\2026\7-JULY\071026\
Data File : TQQ003144.D
Acq On : 10 Jul 2026 10:54 pm
Operator : YR
Sample : 26G0459-04
Misc : .533X
ALS Vial : 1 Sample Multiplier: 0.944

Quant Time: Jul 12 11:50:18 2026
Quant Method : C:\MassHunter\GCMS\1\methods\QA4 01JUNE2026(updated070726).m
Quant Title : TO-15
QLast Update : Tue Jul 07 14:14:35 2026
Response via : Initial Calibration

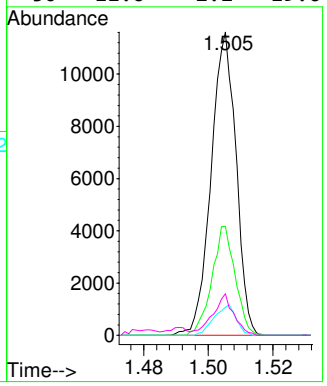


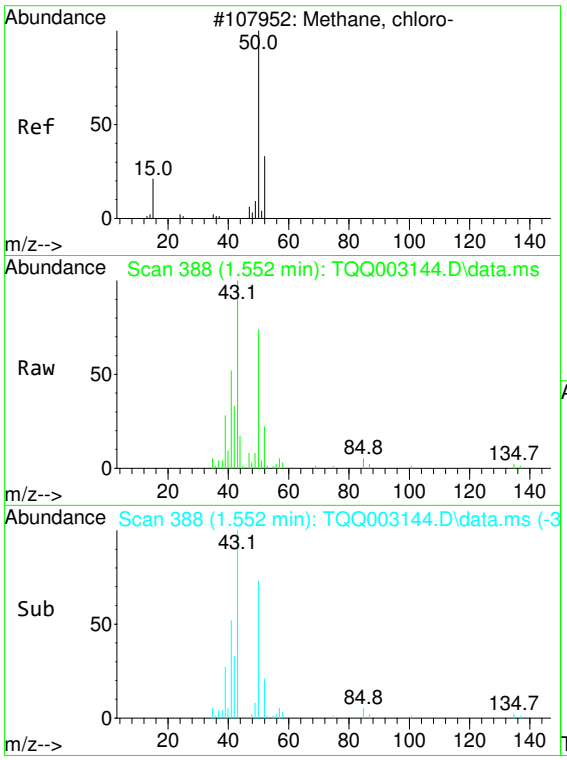


#3
Dichlorodifluoromethane
Concen: 0.35 ppbv
RT: 1.505 min Scan# 349
Delta R.T. 0.002 min
Lab File: TQQ003144.D
Acq: 10 Jul 2026 10:54 pm

Tgt Ion: 85 Resp: 6216

Ion	Ratio	Lower	Upper
85	100		
87	33.7	16.1	48.2
101	8.8	1.9	17.3
50	11.6	2.2	19.6

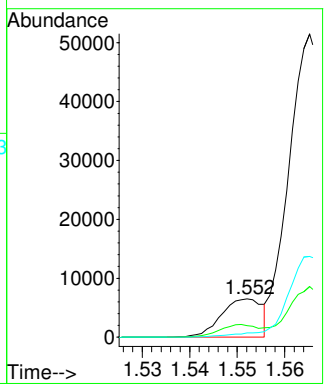


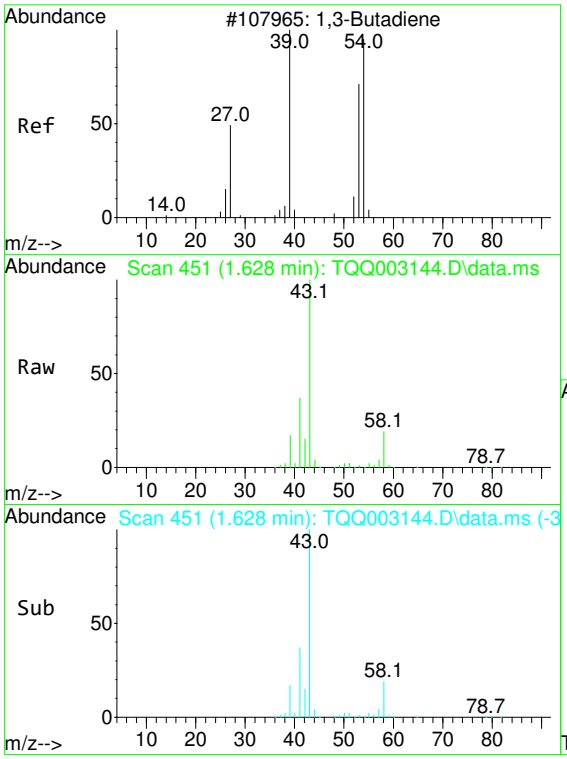


#5
Chloromethane
Concen: 0.55 ppbv
RT: 1.552 min Scan# 388
Delta R.T. -0.000 min
Lab File: TQQ003144.D
Acq: 10 Jul 2026 10:54 pm

Tgt Ion: 50 Resp: 3909

Ion	Ratio	Lower	Upper
50	100		
52	29.2	16.1	33.3
49	0.0	2.3	21.1#

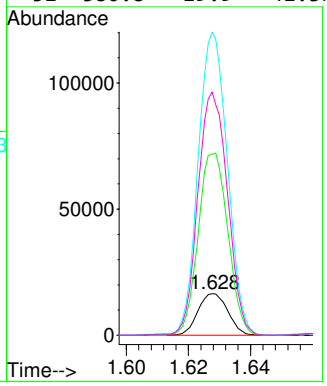


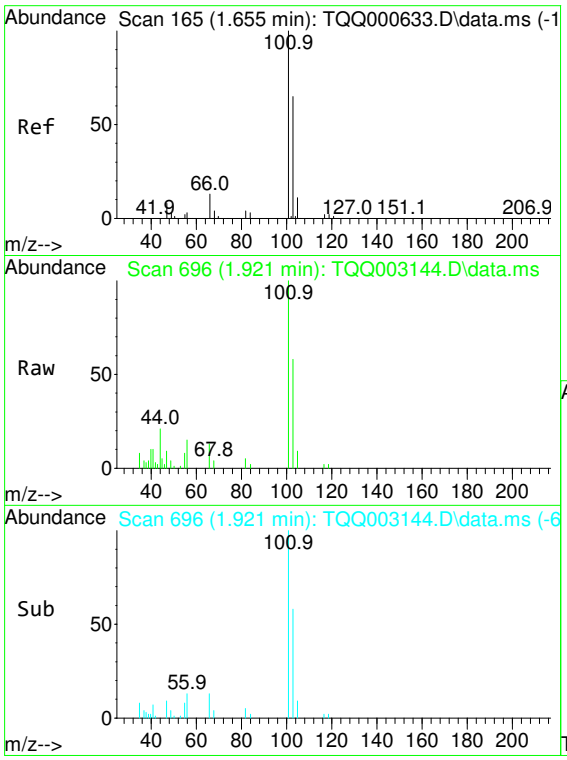


#7
1,3-Butadiene
Concen: 2.29 ppbv
RT: 1.628 min Scan# 451
Delta R.T. 0.001 min
Lab File: TQQ003144.D
Acq: 10 Jul 2026 10:54 pm

Tgt Ion: 54 Resp: 11041

Ion	Ratio	Lower	Upper
54	100		
53	436.0	54.5	81.7#
50	713.9	23.3	48.3#
51	580.8	19.9	41.3#

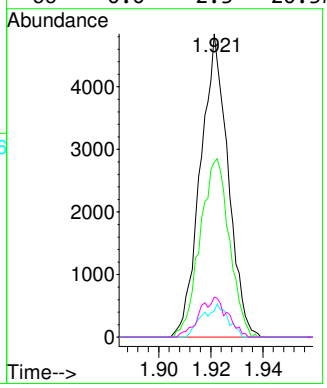


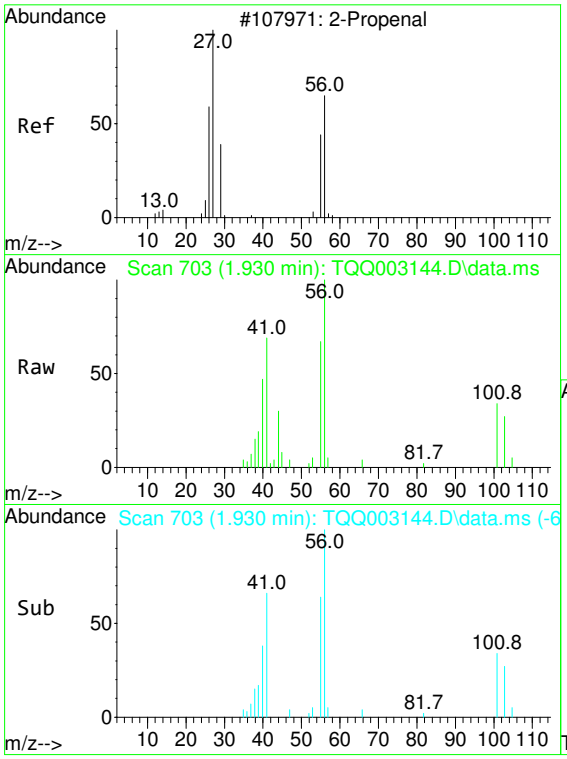


#12
Trichlorofluoromethane (Freon 11)
Concen: 0.20 ppbv
RT: 1.921 min Scan# 696
Delta R.T. 0.001 min
Lab File: TQQ003144.D
Acq: 10 Jul 2026 10:54 pm

Tgt Ion:101 Resp: 3560

Ion	Ratio	Lower	Upper
101	100		
103	62.5	52.2	78.4
105	0.0	2.1	19.3#
66	0.0	2.3	20.3#

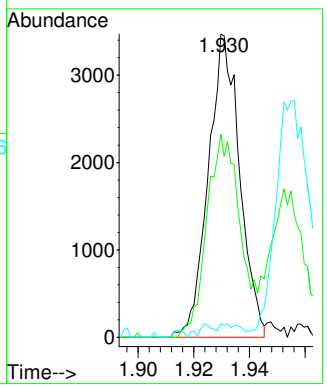


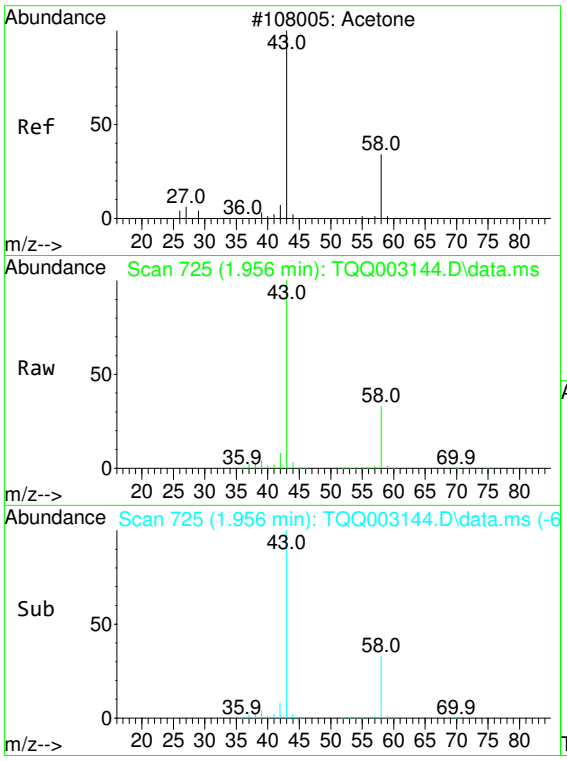


#13
Acrolein
Concen: 1.34 ppbv
RT: 1.930 min Scan# 703
Delta R.T. 0.001 min
Lab File: TQQ003144.D
Acq: 10 Jul 2026 10:54 pm

Tgt Ion: 56 Resp: 2714

Ion	Ratio	Lower	Upper
56	100		
55	71.4	60.6	91.0
57	0.0	0.0	9.8#

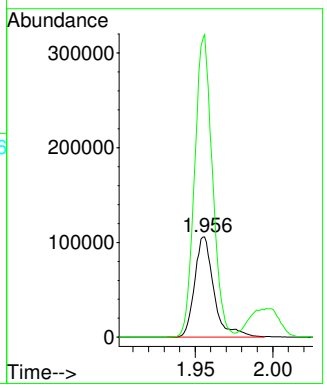


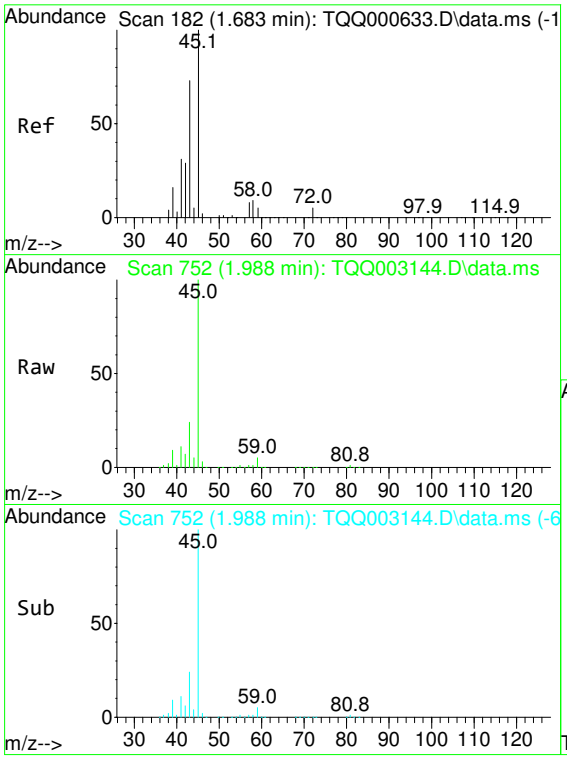


#14
Acetone
Concen: 25.05 ppbv
RT: 1.956 min Scan# 725
Delta R.T. 0.002 min
Lab File: TQQ003144.D
Acq: 10 Jul 2026 10:54 pm

Tgt Ion: 58 Resp: 91839

Ion	Ratio	Lower	Upper
58	100		
43	277.0	0.0	750.2

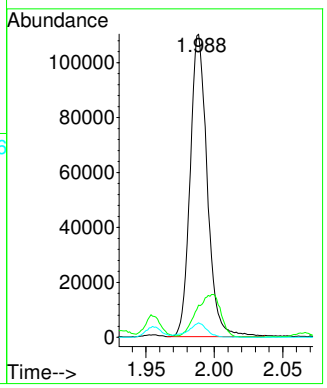


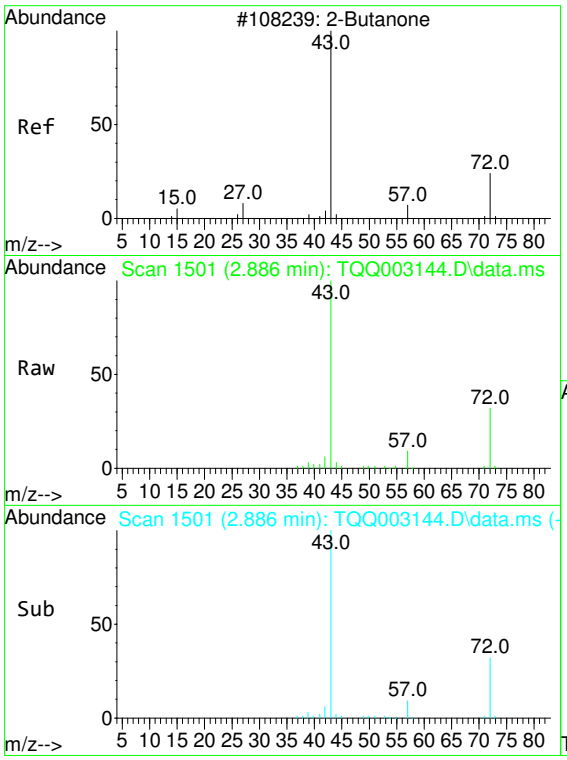


#15
Isopropanol
Concen: 8.59 ppbv
RT: 1.988 min Scan# 752
Delta R.T. 0.002 min
Lab File: TQQ003144.D
Acq: 10 Jul 2026 10:54 pm

Tgt Ion: 45 Resp: 95688

Ion	Ratio	Lower	Upper
45	100		
41	20.1	21.0	98.8#
59	5.0	0.0	8.8

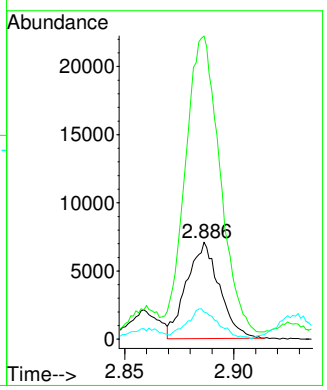


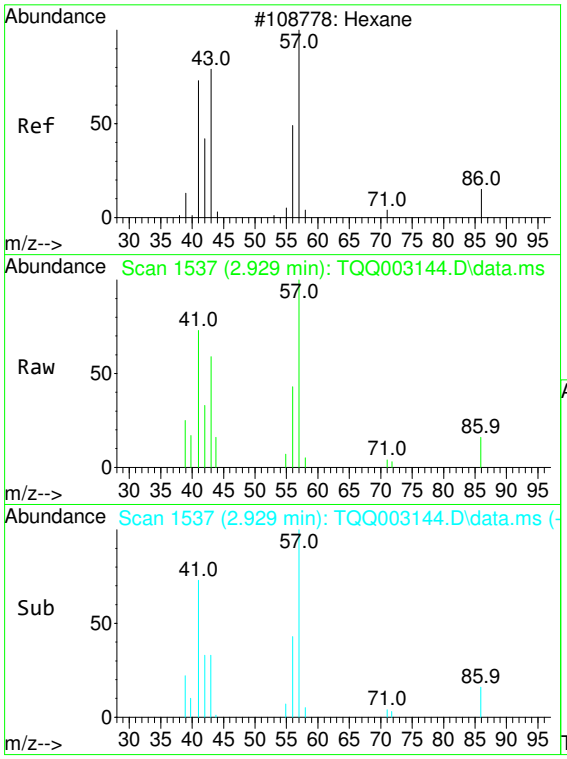


#26
2-Butanone
Concen: 1.76 ppbv
RT: 2.886 min Scan# 1501
Delta R.T. -0.005 min
Lab File: TQQ003144.D
Acq: 10 Jul 2026 10:54 pm

Tgt Ion: 72 Resp: 7325

Ion	Ratio	Lower	Upper
72	100		
43	341.6	459.1	688.7#
57	30.7	253.0	379.4#

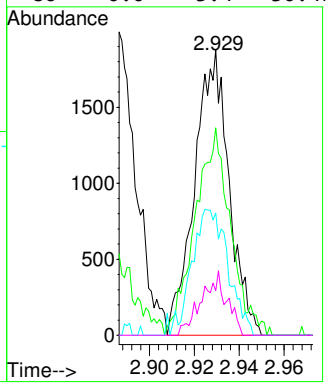


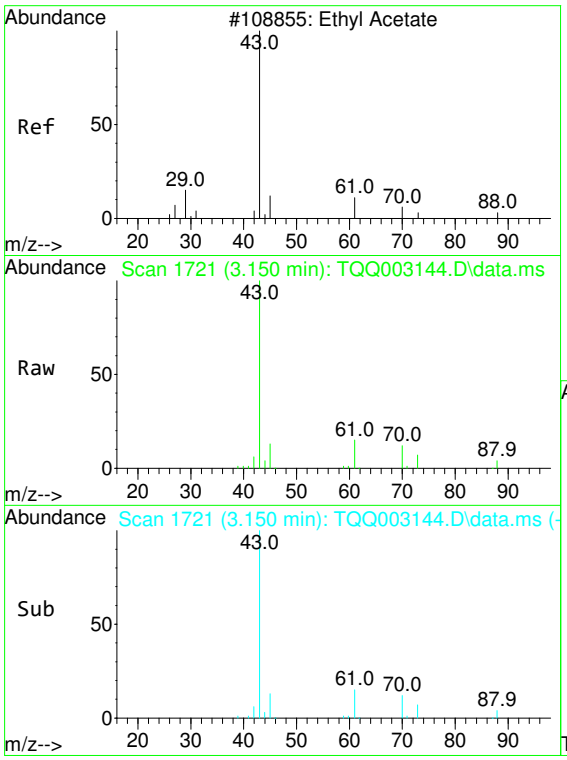


#27
n-Hexane
Concen: 0.17 ppbv
RT: 2.929 min Scan# 1537
Delta R.T. -0.009 min
Lab File: TQQ003144.D
Acq: 10 Jul 2026 10:54 pm

Tgt Ion: 57 Resp: 1999

Ion	Ratio	Lower	Upper
57	100		
41	72.1	55.6	83.4
56	45.4	30.4	63.2
86	0.0	3.4	30.4#

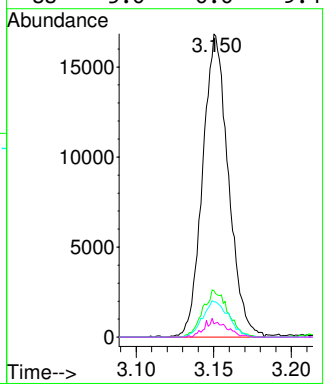


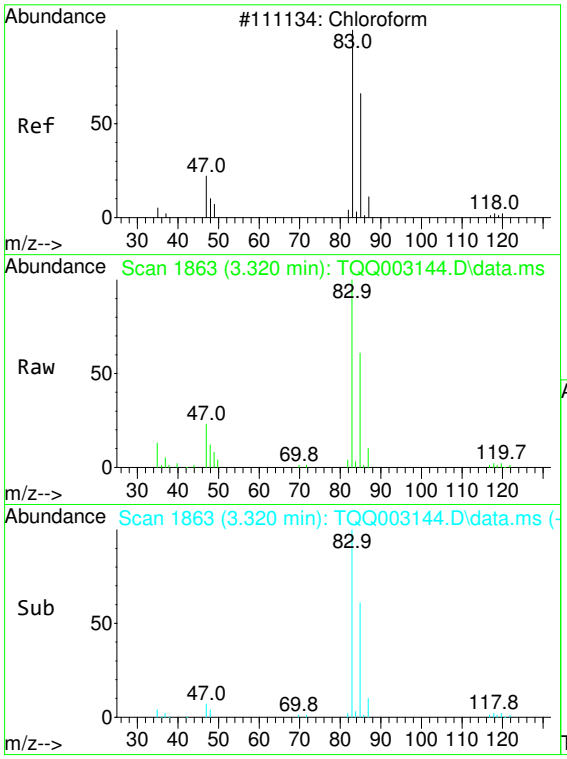


#29
Ethyl Acetate
Concen: 0.76 ppbv
RT: 3.150 min Scan# 1721
Delta R.T. -0.009 min
Lab File: TQQ003144.D
Acq: 10 Jul 2026 10:54 pm

Tgt Ion: 43 Resp: 19366

Ion	Ratio	Lower	Upper
43	100		
61	15.2	2.8	25.4
70	12.0	2.2	20.2
88	5.0	0.0	9.4

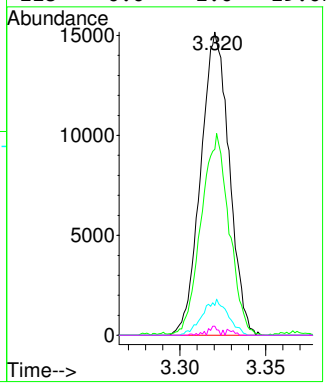


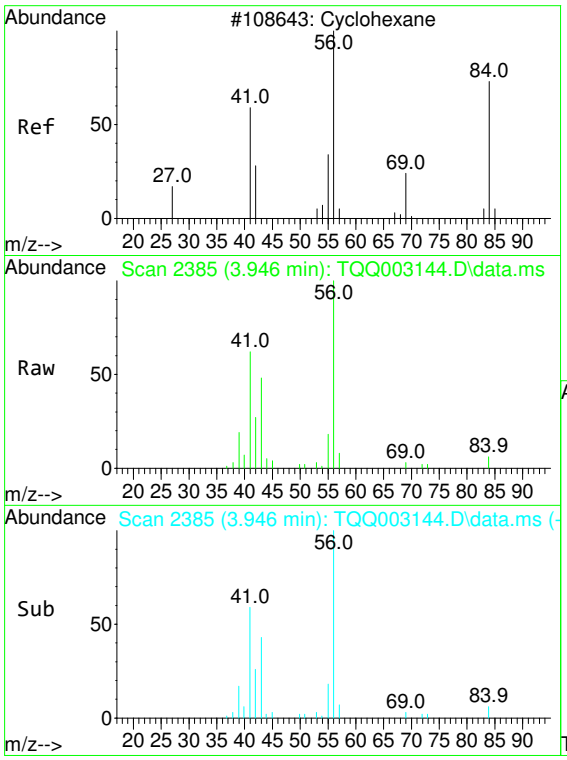


#30
Chloroform
Concen: 1.41 ppbv
RT: 3.320 min Scan# 1863
Delta R.T. -0.011 min
Lab File: TQQ003144.D
Acq: 10 Jul 2026 10:54 pm

Tgt Ion: 83 Resp: 17515

Ion	Ratio	Lower	Upper
83	100		
85	65.5	41.8	86.8
87	4.2	18.6	56.0#
118	0.0	1.0	19.0#

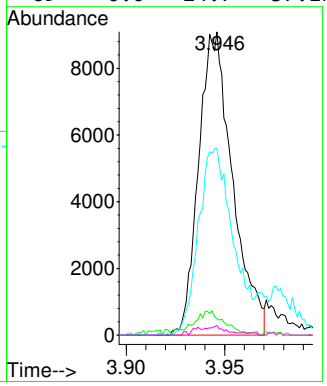


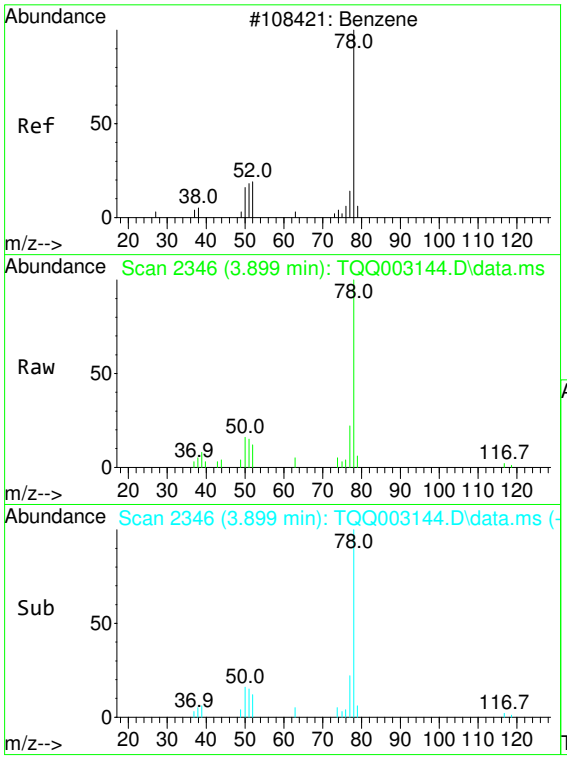


#34
Cyclohexane
Concen: 0.84 ppbv
RT: 3.946 min Scan# 2385
Delta R.T. -0.004 min
Lab File: TQQ003144.D
Acq: 10 Jul 2026 10:54 pm

Tgt Ion: 56 Resp: 10857

Ion	Ratio	Lower	Upper
56	100		
84	5.5	78.6	117.8#
41	63.0	45.8	68.6
69	0.0	24.7	37.1#

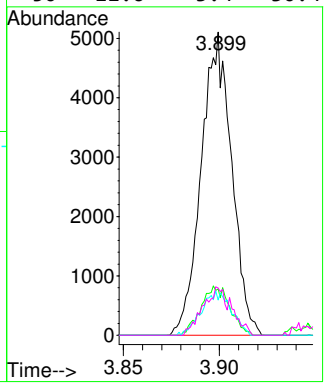


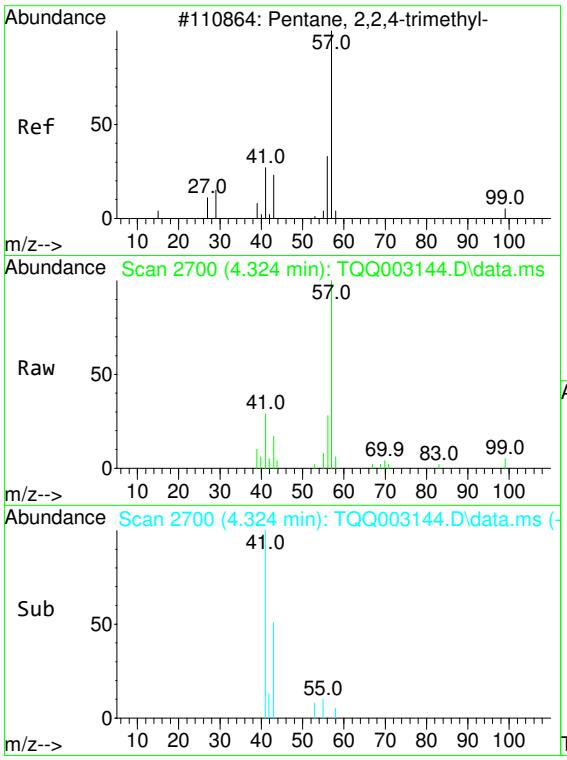


#35
Benzene
Concen: 0.22 ppbv
RT: 3.899 min Scan# 2346
Delta R.T. -0.009 min
Lab File: TQQ003144.D
Acq: 10 Jul 2026 10:54 pm

Tgt Ion: 78 Resp: 5592

Ion	Ratio	Lower	Upper
78	100		
51	15.5	3.9	35.1
52	14.3	3.6	32.0
50	11.6	3.4	30.4

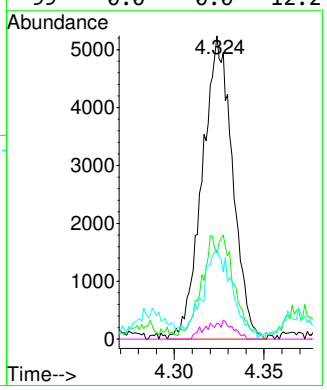


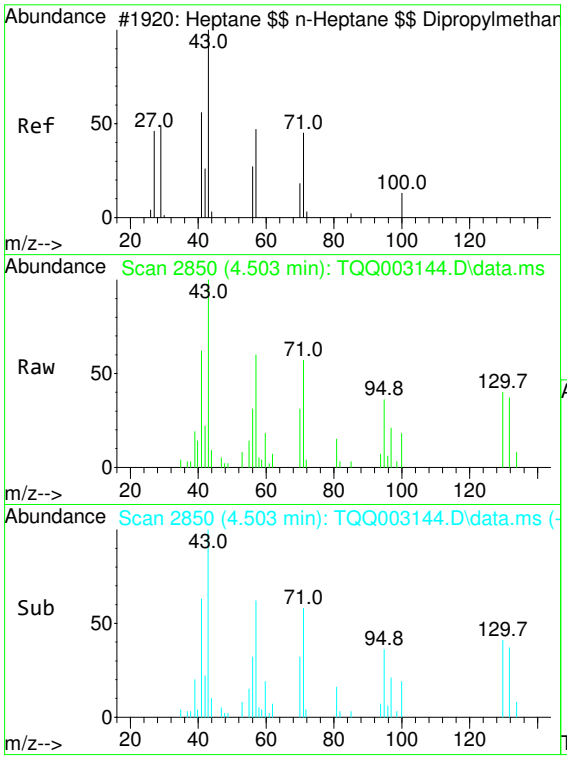


#37
2,2,4-Trimethylpentane
Concen: 0.17 ppbv
RT: 4.324 min Scan# 2700
Delta R.T. -0.007 min
Lab File: TQQ003144.D
Acq: 10 Jul 2026 10:54 pm

Tgt Ion: 57 Resp: 6136

Ion	Ratio	Lower	Upper
57	100		
56	16.5	16.7	50.0#
41	29.3	10.6	42.4
99	0.0	0.0	12.2

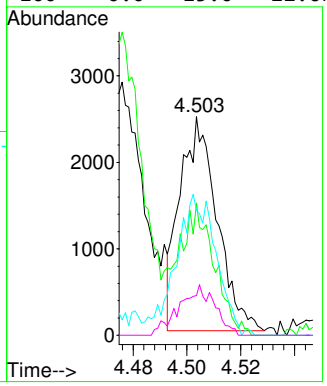


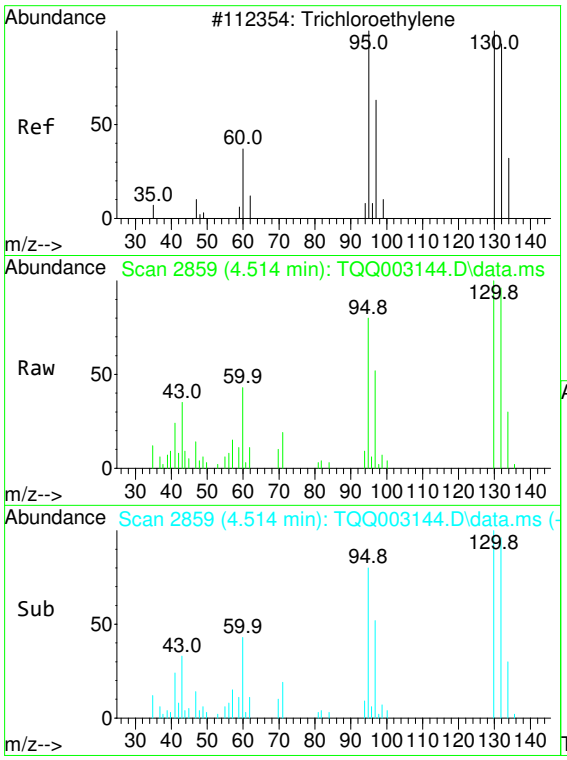


#39
n-Heptane
Concen: 0.19 ppbv
RT: 4.503 min Scan# 2850
Delta R.T. -0.007 min
Lab File: TQQ003144.D
Acq: 10 Jul 2026 10:54 pm

Tgt Ion: 43 Resp: 2370

Ion	Ratio	Lower	Upper
43	100		
57	50.1	38.9	58.3
71	37.8	42.6	64.0#
100	0.0	15.0	22.6#

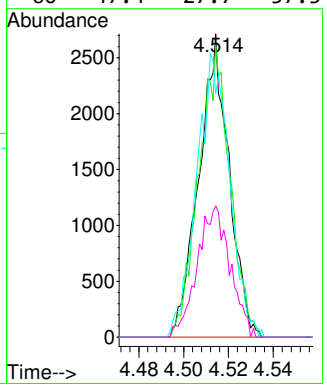


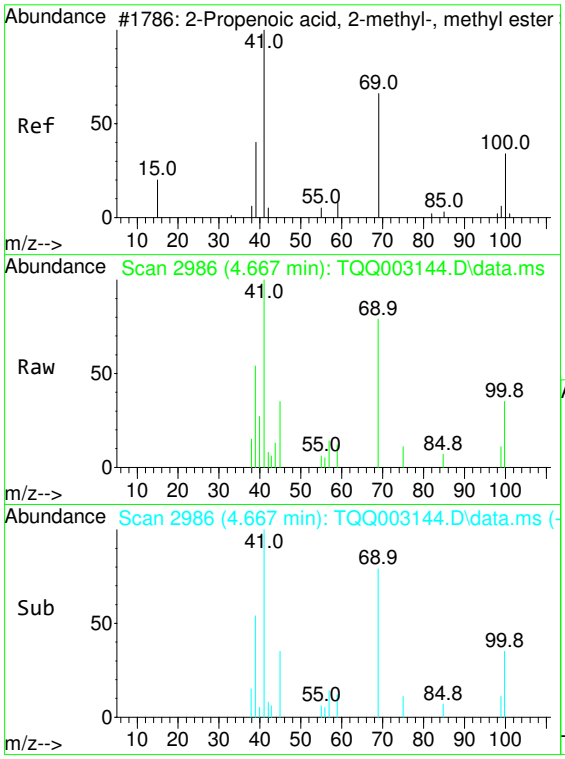


#41
Trichloroethylene
Concen: 0.26 ppbv
RT: 4.514 min Scan# 2859
Delta R.T. -0.005 min
Lab File: TQQ003144.D
Acq: 10 Jul 2026 10:54 pm

Tgt Ion:130 Resp: 2528

Ion	Ratio	Lower	Upper
130	100		
132	99.4	76.8	115.2
95	101.7	79.2	118.8
60	47.4	27.7	57.5

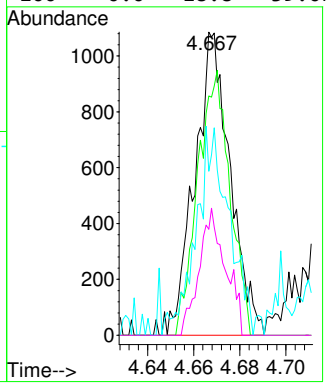


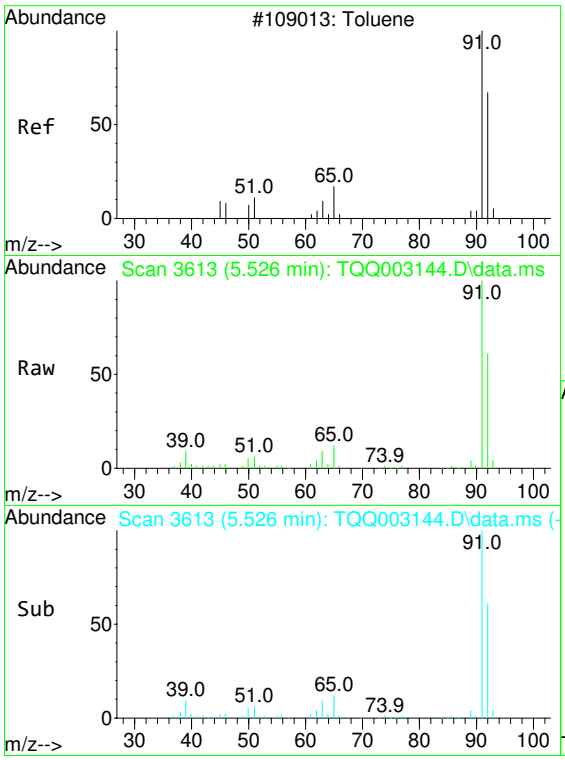


#44
Methyl Methacrylate
Concen: 0.12 ppbv
RT: 4.667 min Scan# 2986
Delta R.T. -0.009 min
Lab File: TQQ003144.D
Acq: 10 Jul 2026 10:54 pm

Tgt Ion: 41 Resp: 1151

Ion	Ratio	Lower	Upper
41	100		
69	80.2	59.6	89.4
39	62.6	40.7	61.1#
100	0.0	18.8	39.0#

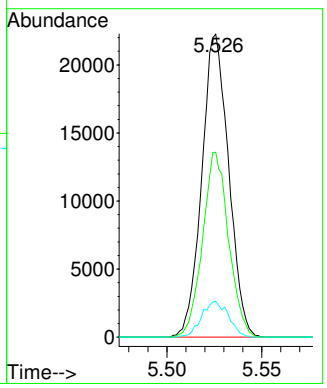


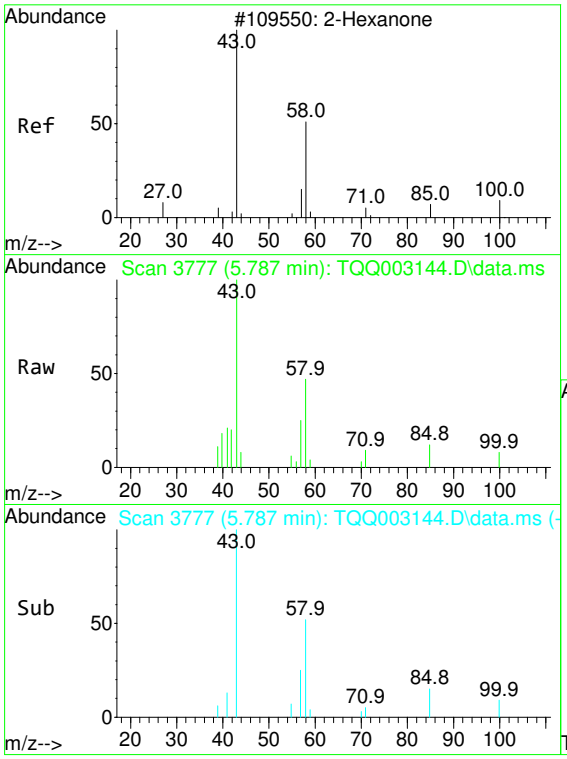


#48
Toluene
Concen: 0.78 ppbv
RT: 5.526 min Scan# 3613
Delta R.T. -0.005 min
Lab File: TQQ003144.D
Acq: 10 Jul 2026 10:54 pm

Tgt Ion: 91 Resp: 21977

Ion	Ratio	Lower	Upper
91	100		
92	59.0	47.1	70.7
65	11.9	2.3	21.1

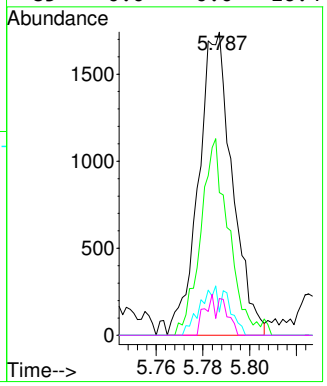


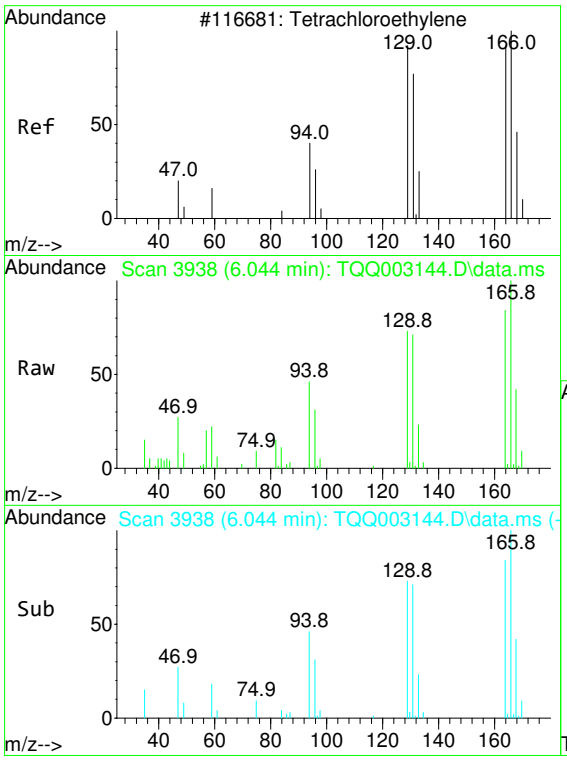


#51
2-Hexanone
Concen: 0.11 ppbv
RT: 5.787 min Scan# 3777
Delta R.T. -0.002 min
Lab File: TQQ003144.D
Acq: 10 Jul 2026 10:54 pm

Tgt Ion: 43 Resp: 1742

Ion	Ratio	Lower	Upper
43	100		
58	54.9	41.1	61.7
100	0.0	2.1	19.1#
85	0.0	0.0	16.4

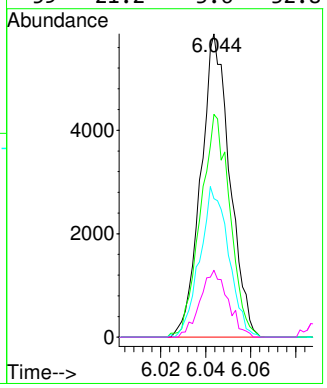


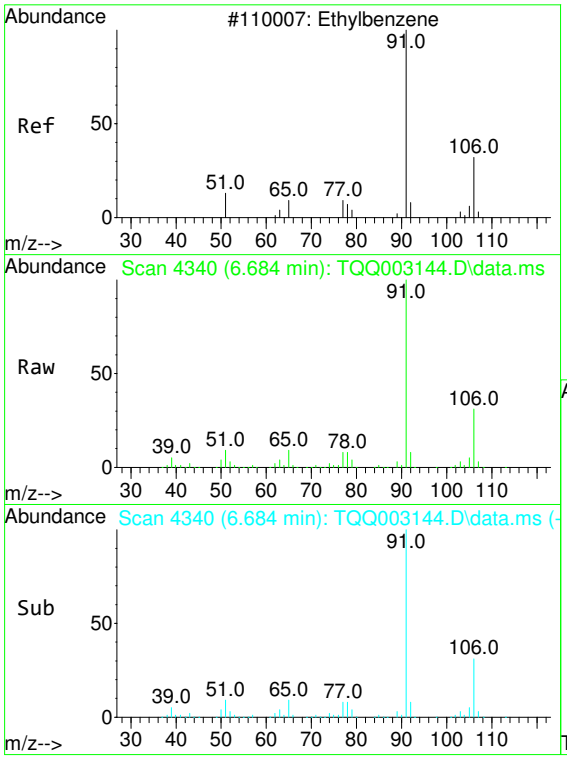


#54
Tetrachloroethylene
Concen: 0.42 ppbv
RT: 6.044 min Scan# 3938
Delta R.T. -0.005 min
Lab File: TQQ003144.D
Acq: 10 Jul 2026 10:54 pm

Tgt Ion:166 Resp: 5238

Ion	Ratio	Lower	Upper
166	100		
129	74.9	63.7	95.5
94	49.3	31.0	64.4
59	21.2	3.6	32.8

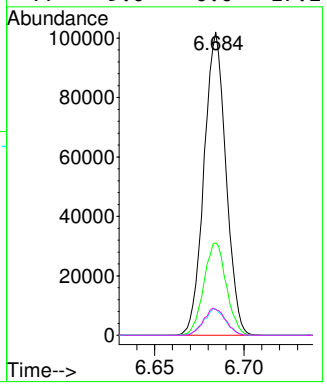


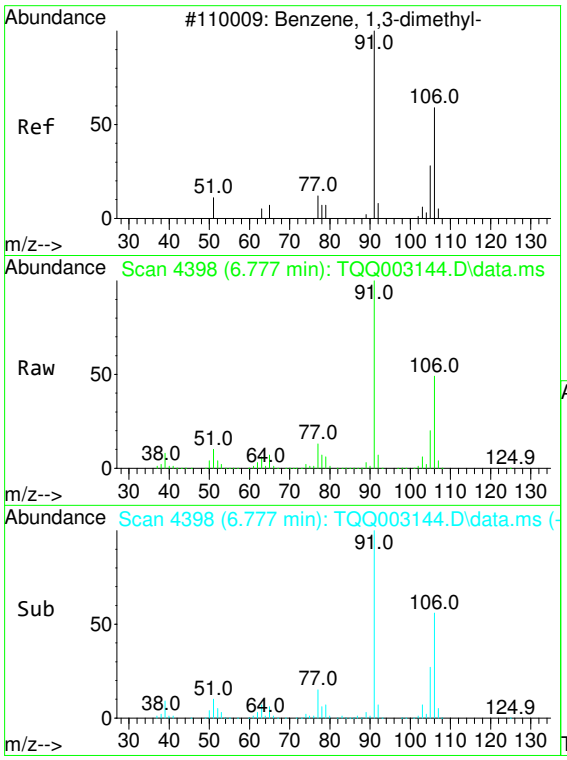


#58
Ethyl benzene
Concen: 2.25 ppbv
RT: 6.684 min Scan# 4340
Delta R.T. -0.002 min
Lab File: TQQ003144.D
Acq: 10 Jul 2026 10:54 pm

Tgt Ion: 91 Resp: 87056

Ion	Ratio	Lower	Upper
91	100		
106	31.3	21.5	44.6
65	8.8	0.0	17.2
77	9.0	0.0	17.2

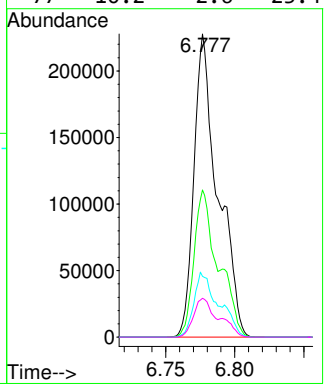


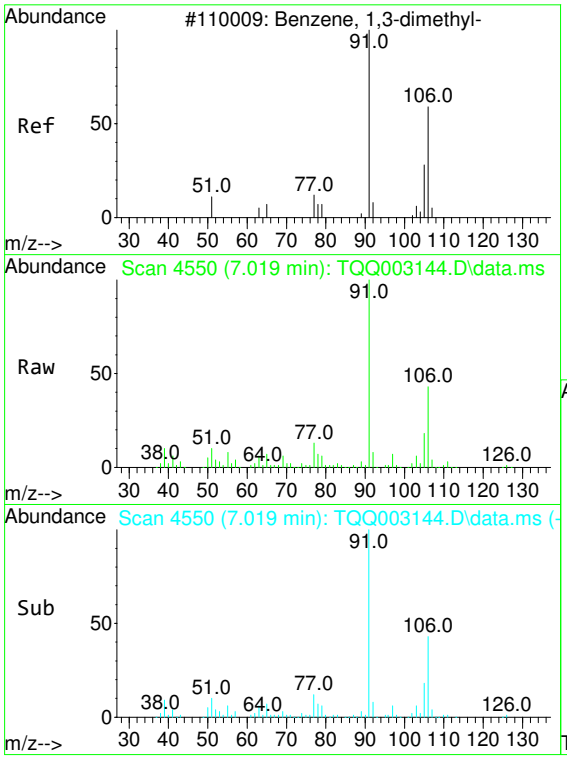


#59
p- & m- Xylenes
Concen: 17.37 ppbv
RT: 6.777 min Scan# 4398
Delta R.T. -0.003 min
Lab File: TQQ003144.D
Acq: 10 Jul 2026 10:54 pm

Tgt Ion: 91 Resp: 273326

Ion	Ratio	Lower	Upper
91	100		
106	39.2	40.8	61.2#
105	22.3	11.1	33.1
77	10.2	2.6	23.4

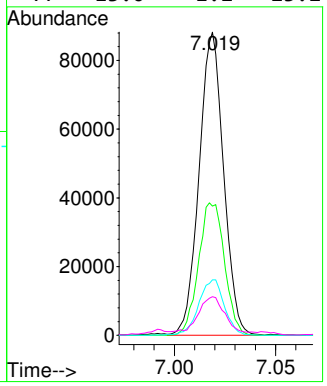


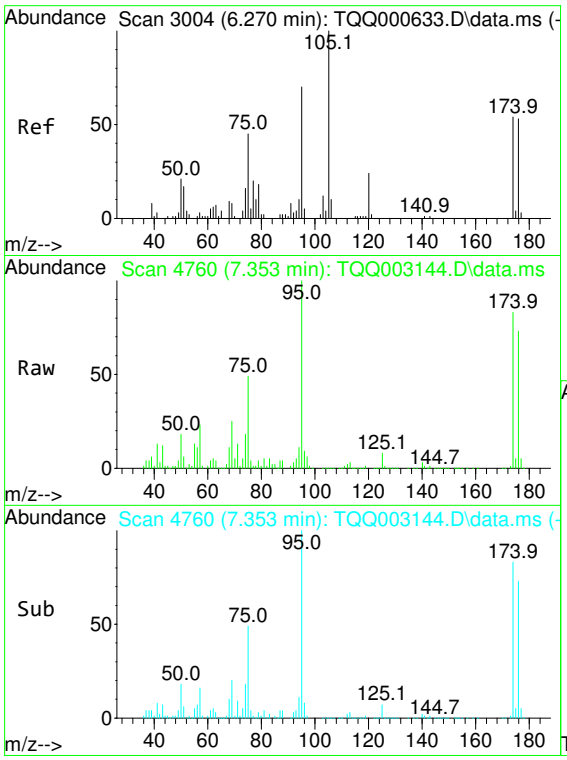


#62
o-Xylene
Concen: 2.19 ppbv
RT: 7.019 min Scan# 4550
Delta R.T. -0.002 min
Lab File: TQQ003144.D
Acq: 10 Jul 2026 10:54 pm

Tgt Ion: 91 Resp: 74218

Ion	Ratio	Lower	Upper
91	100		
106	46.4	38.6	57.8
105	19.3	3.8	34.0
77	13.0	1.2	23.2

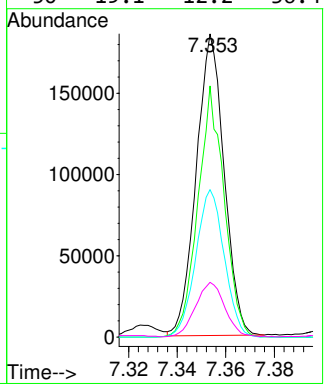


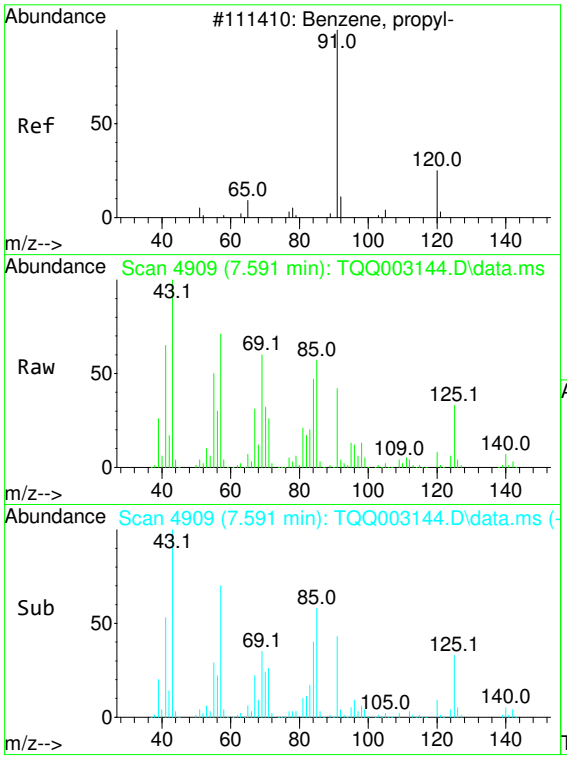


#64
p-Bromofluorobenzene
Concen: 9.62 ppbv
RT: 7.353 min Scan# 4760
Delta R.T. -0.002 min
Lab File: TQQ003144.D
Acq: 10 Jul 2026 10:54 pm

Tgt Ion: 95 Resp: 147588

Ion	Ratio	Lower	Upper
95	100		
174	78.4	58.4	87.6
75	50.1	38.6	58.0
50	19.1	12.2	36.4

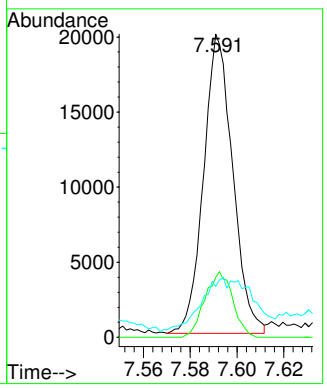


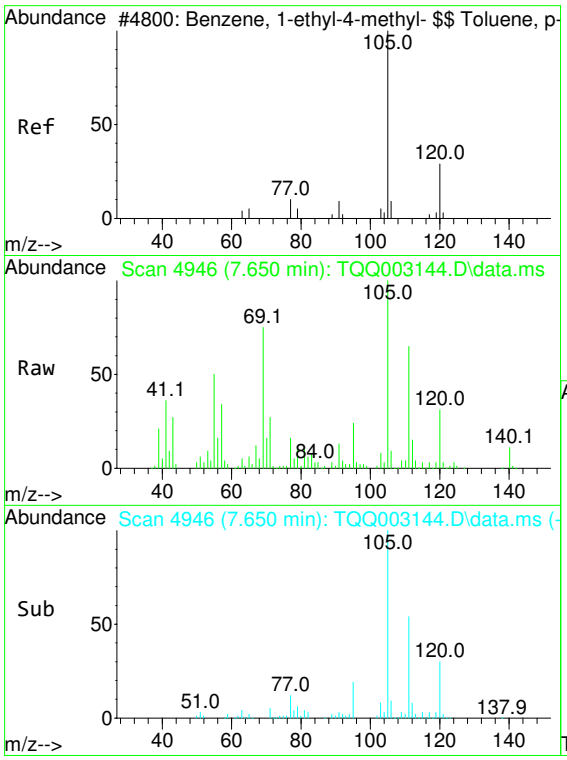


#66
n-Propylbenzene
Concen: 0.33 ppbv
RT: 7.591 min Scan# 4909
Delta R.T. -0.002 min
Lab File: TQQ003144.D
Acq: 10 Jul 2026 10:54 pm

Tgt Ion: 91 Resp: 17269

Ion	Ratio	Lower	Upper
91	100		
120	21.0	8.2	38.8
65	16.0	2.0	18.2

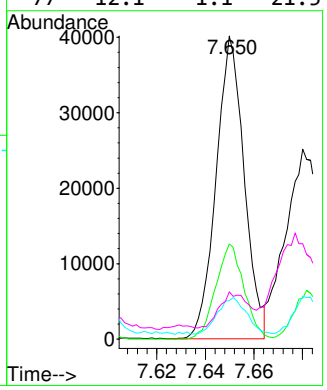


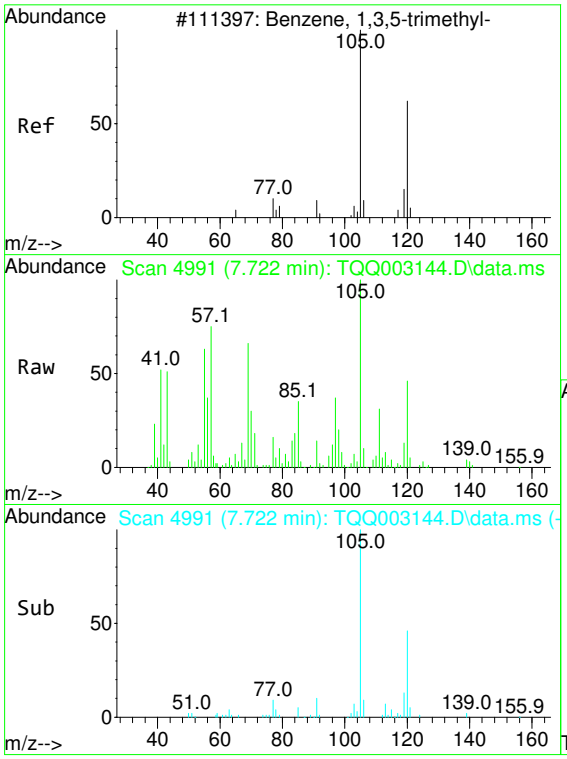


#67
p-Ethyltoluene
Concen: 0.74 ppbv
RT: 7.650 min Scan# 4946
Delta R.T. -0.032 min
Lab File: TQQ003144.D
Acq: 10 Jul 2026 10:54 pm

Tgt Ion:105 Resp: 32121

Ion	Ratio	Lower	Upper
105	100		
120	31.6	19.8	41.0
91	12.1	1.1	20.9
77	12.1	1.1	21.5

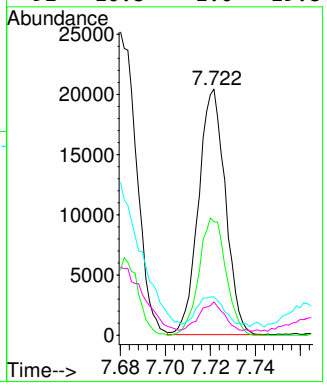


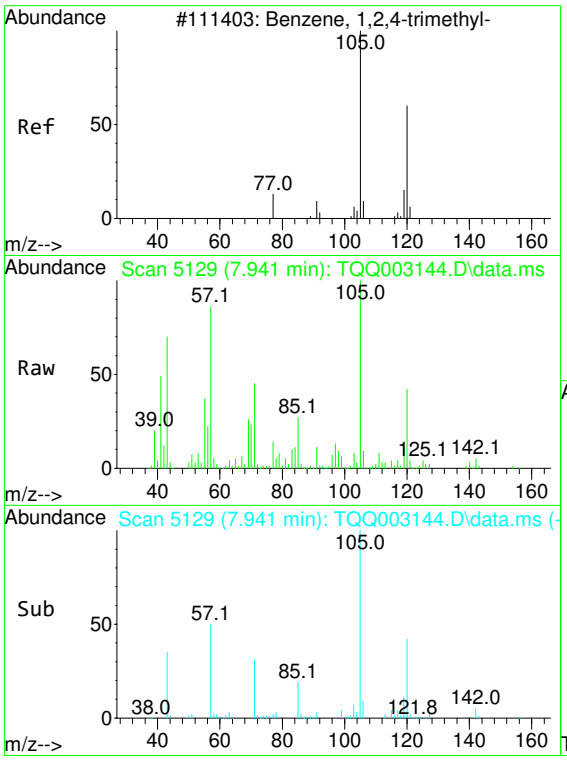


#68
1,3,5-Trimethylbenzene
Concen: 0.47 ppbv
RT: 7.722 min Scan# 4991
Delta R.T. -0.000 min
Lab File: TQQ003144.D
Acq: 10 Jul 2026 10:54 pm

Tgt Ion:105 Resp: 16864

Ion	Ratio	Lower	Upper
105	100		
120	48.1	39.9	59.9
77	12.7	1.3	23.9
91	10.8	1.0	19.8

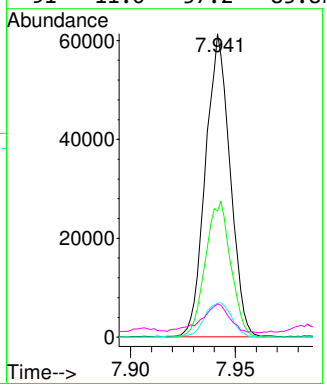


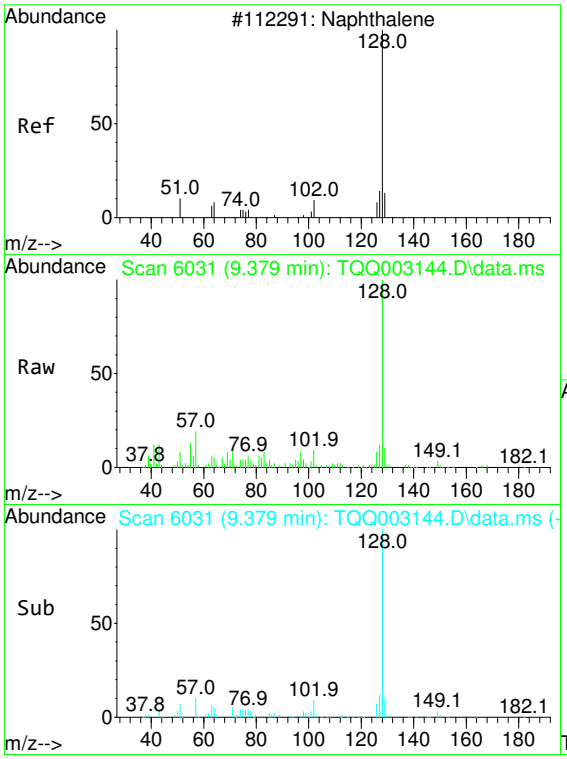


#70
1,2,4-Trimethylbenzene
Concen: 1.36 ppbv
RT: 7.941 min Scan# 5129
Delta R.T. -0.002 min
Lab File: TQQ003144.D
Acq: 10 Jul 2026 10:54 pm

Tgt Ion:105 Resp: 49775

Ion	Ratio	Lower	Upper
105	100		
120	46.4	44.9	67.3
119	12.7	83.3	124.9#
91	11.0	57.2	85.8#

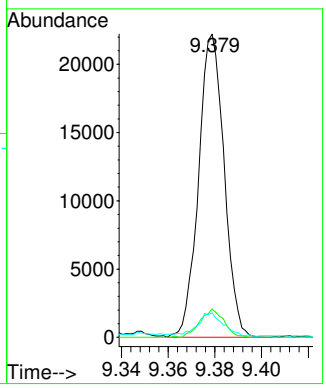




#79
Naphthalene
Concen: 0.28 ppbv
RT: 9.379 min Scan# 6031
Delta R.T. -0.000 min
Lab File: TQQ003144.D
Acq: 10 Jul 2026 10:54 pm

Tgt Ion:128 Resp: 16914

Ion	Ratio	Lower	Upper
128	100		
102	8.8	0.0	16.8
51	7.9	0.0	14.4



Sample Information

Client Sample ID: **OA-2 20260708** **Sample ID:** **26G0459-05**

Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
26G0459	152 Graham Avenue Brooklyn, NY 240052	Outdoor Ambient Air	July 8, 2026 2:14 pm	07/08/2026

Analyzed by: **ALS Environmental - Queens**

Volatile Organic Compounds in Air by GC/MS

Sample Prepared by Method: EPA TO15 PREP

Results Reported to MDL

CAS No.	Parameter	Result	Lab Qualifier	CLP Flag	Units	RL	MDL	Dilution	Reference Method	Prepared	Analyzed Date	By
540-84-1	**^2,2,4-Trimethylpentane**	0.47		D	ug/m³	0.24	0.24	1.007	EPA TO-15	7/9/26 8:00	7/10/26 23:41	YR
91-20-3	**^Naphthalene**	1.9		D	ug/m³	5.3	0.36	1.007	EPA TO-15	7/9/26 8:00	7/10/26 23:41	YR
630-20-6	1,1,1,2-Tetrachloroethane	ND		U	ug/m³	0.69	0.21	1.007	EPA TO-15	7/9/26 8:00	7/10/26 23:41	YR
71-55-6	1,1,1-Trichloroethane	ND		U	ug/m³	0.55	0.19	1.007	EPA TO-15	7/9/26 8:00	7/10/26 23:41	YR
79-34-5	1,1,2,2-Tetrachloroethane	ND		U	ug/m³	0.69	0.20	1.007	EPA TO-15	7/9/26 8:00	7/10/26 23:41	YR
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		U	ug/m³	0.77	0.28	1.007	EPA TO-15	7/9/26 8:00	7/10/26 23:41	YR
79-00-5	1,1,2-Trichloroethane	ND		U	ug/m³	0.55	0.20	1.007	EPA TO-15	7/9/26 8:00	7/10/26 23:41	YR
75-34-3	1,1-Dichloroethane	ND		U	ug/m³	0.41	0.17	1.007	EPA TO-15	7/9/26 8:00	7/10/26 23:41	YR
75-35-4	1,1-Dichloroethylene	ND		U	ug/m³	0.20	0.17	1.007	EPA TO-15	7/9/26 8:00	7/10/26 23:41	YR
120-82-1	1,2,4-Trichlorobenzene	ND		U	ug/m³	37	0.29	1.007	EPA TO-15	7/9/26 8:00	7/10/26 23:41	YR
95-63-6	**1,2,4-Trimethylbenzene**	0.59		D	ug/m³	0.50	0.17	1.007	EPA TO-15	7/9/26 8:00	7/10/26 23:41	YR
106-93-4	1,2-Dibromoethane	ND		U	ug/m³	0.77	0.24	1.007	EPA TO-15	7/9/26 8:00	7/10/26 23:41	YR
95-50-1	1,2-Dichlorobenzene	ND		U	ug/m³	0.61	0.19	1.007	EPA TO-15	7/9/26 8:00	7/10/26 23:41	YR
107-06-2	1,2-Dichloroethane	ND		U	ug/m³	0.41	0.19	1.007	EPA TO-15	7/9/26 8:00	7/10/26 23:41	YR
78-87-5	1,2-Dichloropropane	ND		U	ug/m³	0.47	0.16	1.007	EPA TO-15	7/9/26 8:00	7/10/26 23:41	YR
76-14-2	1,2-Dichlorotetrafluoroethane	ND		U	ug/m³	0.70	0.36	1.007	EPA TO-15	7/9/26 8:00	7/10/26 23:41	YR
108-67-8	1,3,5-Trimethylbenzene	ND		U	ug/m³	0.50	0.076	1.007	EPA TO-15	7/9/26 8:00	7/10/26 23:41	YR
106-99-0	1,3-Butadiene	ND		U	ug/m³	0.67	0.069	1.007	EPA TO-15	7/9/26 8:00	7/10/26 23:41	YR
541-73-1	1,3-Dichlorobenzene	ND		U	ug/m³	0.61	0.17	1.007	EPA TO-15	7/9/26 8:00	7/10/26 23:41	YR
142-28-9	1,3-Dichloropropane	ND		U	ug/m³	0.47	0.14	1.007	EPA TO-15	7/9/26 8:00	7/10/26 23:41	YR
106-46-7	1,4-Dichlorobenzene	ND		U	ug/m³	0.61	0.14	1.007	EPA TO-15	7/9/26 8:00	7/10/26 23:41	YR
123-91-1	1,4-Dioxane	ND		U	ug/m³	1.8	0.38	1.007	EPA TO-15	7/9/26 8:00	7/10/26 23:41	YR
78-93-3	**2-Butanone**	2.4		D	ug/m³	15	0.50	1.007	EPA TO-15	7/9/26 8:00	7/10/26 23:41	YR
591-78-6	**2-Hexanone**	0.45		D	ug/m³	0.83	0.22	1.007	EPA TO-15	7/9/26 8:00	7/10/26 23:41	YR
107-05-1	3-Chloropropene	ND		U	ug/m³	1.6	0.13	1.007	EPA TO-15	7/9/26 8:00	7/10/26 23:41	YR
108-10-1	**4-Methyl-2-pentanone**	1.5		D	ug/m³	0.41	0.18	1.007	EPA TO-15	7/9/26 8:00	7/10/26 23:41	YR
67-64-1	**Acetone**	21		D	ug/m³	12	1.2	1.007	EPA TO-15	7/9/26 8:00	7/10/26 23:41	YR
107-13-1	Acrylonitrile	ND		U	ug/m³	11	2.1	1.007	EPA TO-15	7/9/26 8:00	7/10/26 23:41	YR
71-43-2	**Benzene**	0.39		D	ug/m³	0.32	0.12	1.007	EPA TO-15	7/9/26 8:00	7/10/26 23:41	YR
100-44-7	Benzyl chloride	ND		U	ug/m³	13	0.16	1.007	EPA TO-15	7/9/26 8:00	7/10/26 23:41	YR
75-27-4	Bromodichloromethane	ND		U	ug/m³	0.67	0.20	1.007	EPA TO-15	7/9/26 8:00	7/10/26 23:41	YR
75-25-2	Bromoform	ND		U	ug/m³	1.0	0.44	1.007	EPA TO-15	7/9/26 8:00	7/10/26 23:41	YR
74-83-9	Bromomethane	ND		U	ug/m³	0.39	0.17	1.007	EPA TO-15	7/9/26 8:00	7/10/26 23:41	YR

Sample Information

Client Sample ID: **OA-2 20260708** **Sample ID: 26G0459-05**

Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
26G0459	152 Graham Avenue Brooklyn, NY 240052	Outdoor Ambient Air	July 8, 2026 2:14 pm	07/08/2026

Analyzed by: **ALS Environmental - Queens**

Volatile Organic Compounds in Air by GC/MS

Sample Prepared by Method: EPA TO15 PREP

Results Reported to MDL

CAS No.	Parameter	Result	Lab Qualifier	CLP Flag	Units	RL	MDL	Dilution	Reference Method	Prepared	Analyzed Date	By
75-15-0	Carbon disulfide	ND		U	ug/m³	0.31	0.081	1.007	EPA TO-15	7/9/26 8:00	7/10/26 23:41	YR
56-23-5	Carbon tetrachloride	ND		U	ug/m³	0.19	0.19	1.007	EPA TO-15	7/9/26 8:00	7/10/26 23:41	YR
108-90-7	Chlorobenzene	ND		U	ug/m³	0.46	0.18	1.007	EPA TO-15	7/9/26 8:00	7/10/26 23:41	YR
75-00-3	Chloroethane	ND		U	ug/m³	0.27	0.15	1.007	EPA TO-15	7/9/26 8:00	7/10/26 23:41	YR
67-66-3	Chloroform	ND		U	ug/m³	0.49	0.14	1.007	EPA TO-15	7/9/26 8:00	7/10/26 23:41	YR
74-87-3	**Chloromethane**	0.96		D	ug/m³	0.21	0.15	1.007	EPA TO-15	7/9/26 8:00	7/10/26 23:41	YR
156-59-2	cis-1,2-Dichloroethylene	ND		U	ug/m³	0.20	0.10	1.007	EPA TO-15	7/9/26 8:00	7/10/26 23:41	YR
10061-01-5	cis-1,3-Dichloropropylene	ND		U	ug/m³	0.46	0.18	1.007	EPA TO-15	7/9/26 8:00	7/10/26 23:41	YR
110-82-7	**Cyclohexane**	0.62		D	ug/m³	0.35	0.24	1.007	EPA TO-15	7/9/26 8:00	7/10/26 23:41	YR
124-48-1	Dibromochloromethane	ND		U	ug/m³	0.86	0.35	1.007	EPA TO-15	7/9/26 8:00	7/10/26 23:41	YR
75-71-8	**Dichlorodifluoromethane**	1.6		D	ug/m³	0.50	0.28	1.007	EPA TO-15	7/9/26 8:00	7/10/26 23:41	YR
141-78-6	**Ethyl acetate**	1.3	TO-CCV	D	ug/m³	18	0.22	1.007	EPA TO-15	7/9/26 8:00	7/10/26 23:41	YR
100-41-4	Ethyl Benzene	ND		U	ug/m³	0.44	0.15	1.007	EPA TO-15	7/9/26 8:00	7/10/26 23:41	YR
87-68-3	Hexachlorobutadiene	ND		U	ug/m³	1.1	0.41	1.007	EPA TO-15	7/9/26 8:00	7/10/26 23:41	YR
67-63-0	**Isopropanol**	5.7		D	ug/m³	1.5	0.059	1.007	EPA TO-15	7/9/26 8:00	7/10/26 23:41	YR
80-62-6	Methyl Methacrylate	ND		U	ug/m³	0.41	0.26	1.007	EPA TO-15	7/9/26 8:00	7/10/26 23:41	YR
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		U	ug/m³	0.36	0.11	1.007	EPA TO-15	7/9/26 8:00	7/10/26 23:41	YR
75-09-2	**Methylene chloride**	0.38		D	ug/m³	2.1	0.12	1.007	EPA TO-15	7/9/26 8:00	7/10/26 23:41	YR
142-82-5	n-Heptane	ND		U	ug/m³	0.41	0.16	1.007	EPA TO-15	7/9/26 8:00	7/10/26 23:41	YR
110-54-3	**n-Hexane**	0.35		D	ug/m³	0.35	0.11	1.007	EPA TO-15	7/9/26 8:00	7/10/26 23:41	YR
95-47-6	o-Xylene	ND		U	ug/m³	0.44	0.15	1.007	EPA TO-15	7/9/26 8:00	7/10/26 23:41	YR
179601-23-1	**p- & m- Xylenes**	1.4	TO-MPX	D	ug/m³	0.87	0.22	1.007	EPA TO-15	7/9/26 8:00	7/10/26 23:41	YR
622-96-8	**p-Ethyltoluene**	0.69		D	ug/m³	0.50	0.17	1.007	EPA TO-15	7/9/26 8:00	7/10/26 23:41	YR
115-07-1	**Propylene**	0.76	TO-CCV, TO-LCS-L	D	ug/m³	0.17	0.099	1.007	EPA TO-15	7/9/26 8:00	7/10/26 23:41	YR
100-42-5	Styrene	ND		U	ug/m³	0.43	0.13	1.007	EPA TO-15	7/9/26 8:00	7/10/26 23:41	YR
127-18-4	**Tetrachloroethylene**	2.0		D	ug/m³	0.68	0.16	1.007	EPA TO-15	7/9/26 8:00	7/10/26 23:41	YR
109-99-9	Tetrahydrofuran	ND		U	ug/m³	0.59	0.10	1.007	EPA TO-15	7/9/26 8:00	7/10/26 23:41	YR
108-88-3	**Toluene**	1.3		D	ug/m³	0.38	0.15	1.007	EPA TO-15	7/9/26 8:00	7/10/26 23:41	YR
156-60-5	trans-1,2-Dichloroethylene	ND		U	ug/m³	0.40	0.096	1.007	EPA TO-15	7/9/26 8:00	7/10/26 23:41	YR
10061-02-6	trans-1,3-Dichloropropylene	ND		U	ug/m³	0.46	0.18	1.007	EPA TO-15	7/9/26 8:00	7/10/26 23:41	YR
79-01-6	Trichloroethylene	ND		U	ug/m³	0.16	0.16	1.007	EPA TO-15	7/9/26 8:00	7/10/26 23:41	YR
75-69-4	**Trichlorofluoromethane (Freon 11)**	1.2		D	ug/m³	0.57	0.20	1.007	EPA TO-15	7/9/26 8:00	7/10/26 23:41	YR
108-05-4	Vinyl acetate	ND	TO-LCS-L	U	ug/m³	0.35	0.18	1.007	EPA TO-15	7/9/26 8:00	7/10/26 23:41	YR

Sample Information

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Sample Prepared by Method: EPA TO15 PREP

Results Reported to MDL

CAS No.	Parameter	Result	Lab Qualifier	CLP Flag	Units	RL	MDL	Dilution	Reference Method	Prepared	Analyzed Date	By
593-60-2	Vinyl bromide	ND		U	ug/m³	0.44	0.15	1.007	EPA TO-15	7/9/26 8:00	7/10/26 23:41	YR
75-01-4	Vinyl Chloride	ND		U	ug/m³	0.13	0.10	1.007	EPA TO-15	7/9/26 8:00	7/10/26 23:41	YR

Quantitation Report (QT Reviewed)

Data Path : C:\MassHunter\GCMS\1\data\2026\7-JULY\071026\
Data File : TQQ003145.D
Acq On : 10 Jul 2026 11:41 pm
Operator : YR
Sample : 26G0459-05
Misc : .533X
ALS Vial : 1 Sample Multiplier: 1.007

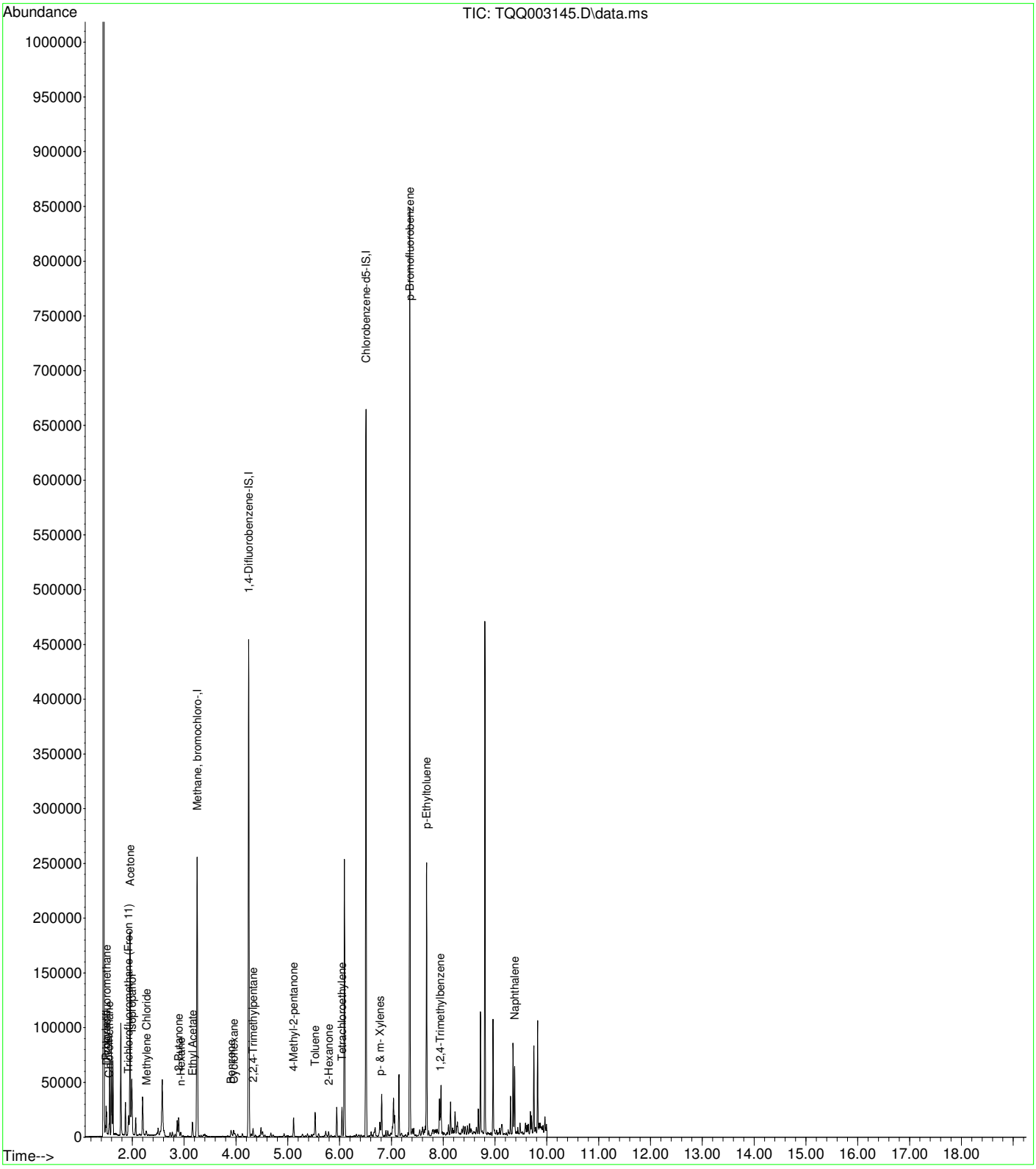
Quant Time: Jul 12 11:50:28 2026
Quant Method : C:\MassHunter\GCMS\1\methods\QA4 01JUNE2026(updated070726).m
Quant Title : TO-15
QLast Update : Tue Jul 07 14:14:35 2026
Response via : Initial Calibration

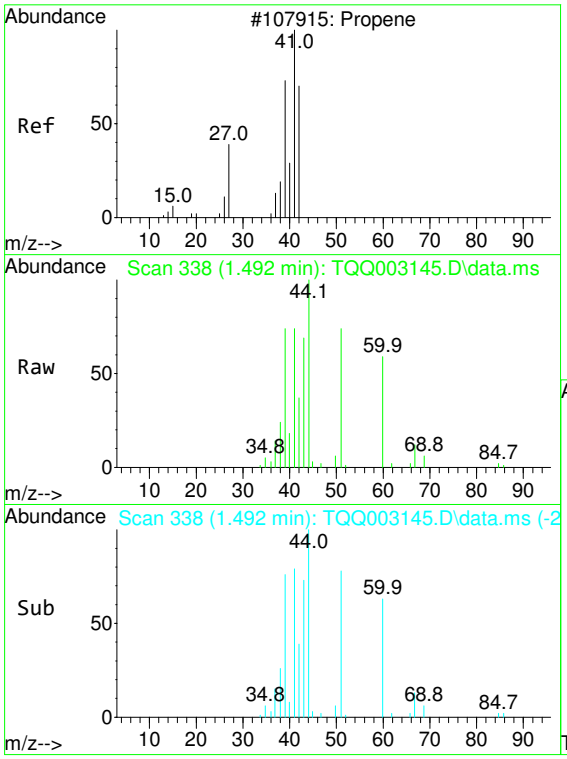
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Methane, bromochloro-	3.249	130	56319	10.00	ppbv	# 0.00
38) 1,4-Difluorobenzene-IS	4.245	114	215523	10.00	ppbv	0.00
55) Chlorobenzene-d5-IS	6.509	117	198048	10.00	ppbv	0.00
Target Compounds						Qvalue
2) Propylene	1.492	41	2175	0.44	ppbv	# 68
3) Dichlorodifluoromethane	1.504	85	5942	0.33	ppbv	99
5) Chloromethane	1.551	50	3337	0.46	ppbv	# 83
12) Trichlorofluoromethane...	1.923	101	3708	0.21	ppbv	# 89
14) Acetone	1.957	58	32390	8.66	ppbv	66
15) Isopropanol	1.990	45	26012	2.29	ppbv	# 35
19) Methylene Chloride	2.272	49	857	0.11	ppbv	# 71
26) 2-Butanone	2.894	72	3403	0.80	ppbv	# 1
27) n-Hexane	2.936	57	1246	0.10	ppbv	# 69
29) Ethyl Acetate	3.160	43	9378	0.36	ppbv	# 91
34) Cyclohexane	3.953	56	2386	0.18	ppbv	# 28
35) Benzene	3.904	78	3153	0.12	ppbv	# 59
37) 2,2,4-Trimethylpentane	4.330	57	3854	0.10	ppbv	# 86
46) 4-Methyl-2-pentanone	5.113	43	5913	0.36	ppbv	89
48) Toluene	5.527	91	9635	0.34	ppbv	98
51) 2-Hexanone	5.789	43	1735	0.11	ppbv	# 89
54) Tetrachloroethylene	6.047	166	3785	0.30	ppbv	97
59) p- & m- Xylenes	6.778	91	4933	0.31	ppbv	92
64) p-Bromofluorobenzene	7.355	95	144165	9.44	ppbv	94
67) p-Ethyltoluene	7.677	105	5870	0.14	ppbv	# 44
70) 1,2,4-Trimethylbenzene	7.940	105	4516	0.12	ppbv	# 34
79) Naphthalene	9.379	128	21206	0.36	ppbv	100

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

Data Path : C:\MassHunter\GCMS\1\data\2026\7-JULY\071026\
Data File : TQQ003145.D
Acq On : 10 Jul 2026 11:41 pm
Operator : YR
Sample : 26G0459-05
Misc : .533X
ALS Vial : 1 Sample Multiplier: 1.007

Quant Time: Jul 12 11:50:28 2026
Quant Method : C:\MassHunter\GCMS\1\methods\QA4 01JUNE2026(updated070726).m
Quant Title : TO-15
QLast Update : Tue Jul 07 14:14:35 2026
Response via : Initial Calibration

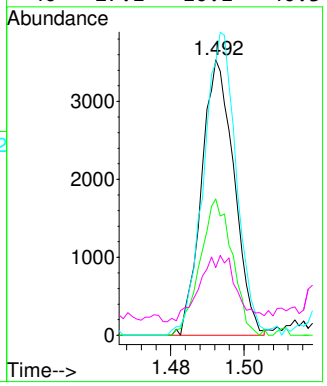


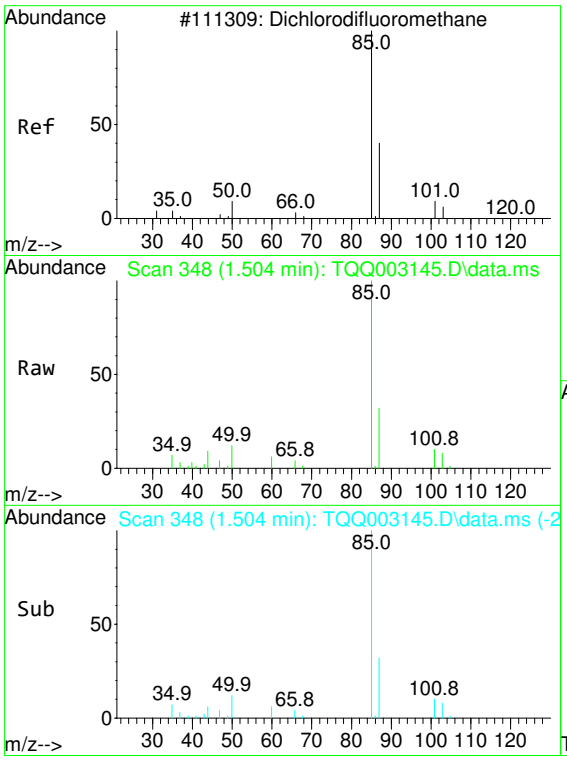


#2
Propylene
Concen: 0.44 ppbv
RT: 1.492 min Scan# 338
Delta R.T. 0.001 min
Lab File: TQQ003145.D
Acq: 10 Jul 2026 11:41 pm

Tgt Ion: 41 Resp: 2175

Ion	Ratio	Lower	Upper
41	100		
42	48.9	55.4	83.2#
39	110.3	55.9	83.9#
40	27.1	10.1	40.3

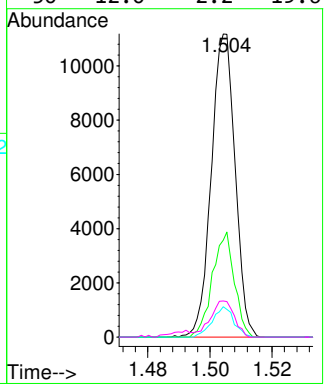


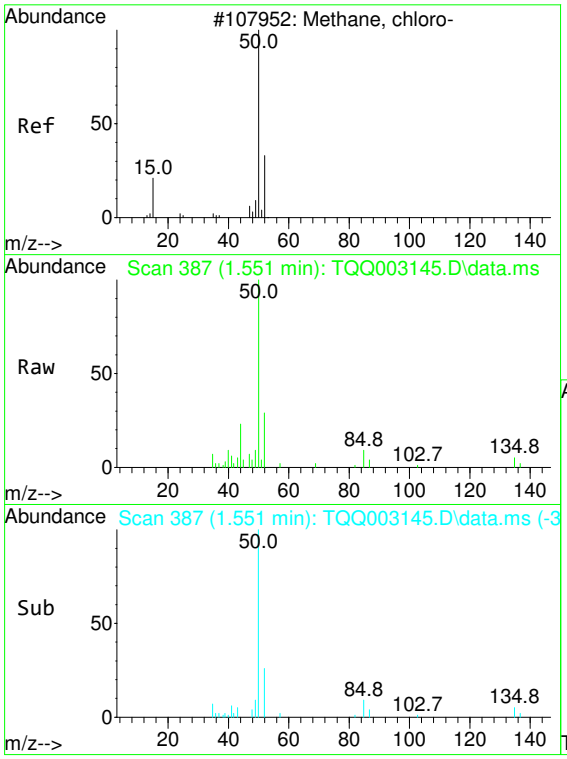


#3
Dichlorodifluoromethane
Concen: 0.33 ppbv
RT: 1.504 min Scan# 348
Delta R.T. 0.001 min
Lab File: TQQ003145.D
Acq: 10 Jul 2026 11:41 pm

Tgt Ion: 85 Resp: 5942

Ion	Ratio	Lower	Upper
85	100		
87	31.9	16.1	48.2
101	9.1	1.9	17.3
50	12.0	2.2	19.6

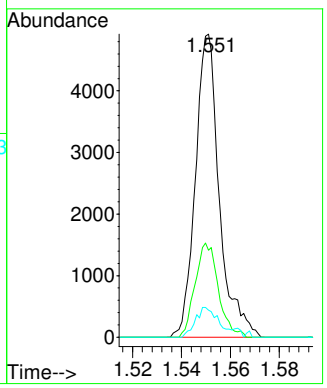


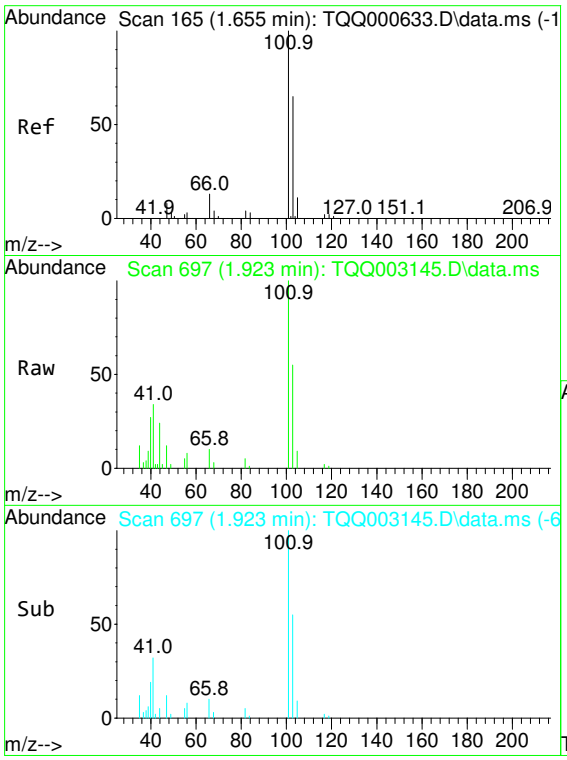


#5
Chloromethane
Concen: 0.46 ppbv
RT: 1.551 min Scan# 387
Delta R.T. -0.001 min
Lab File: TQQ003145.D
Acq: 10 Jul 2026 11:41 pm

Tgt Ion: 50 Resp: 3337

Ion	Ratio	Lower	Upper
50	100		
52	30.3	16.1	33.3
49	0.0	2.3	21.1#

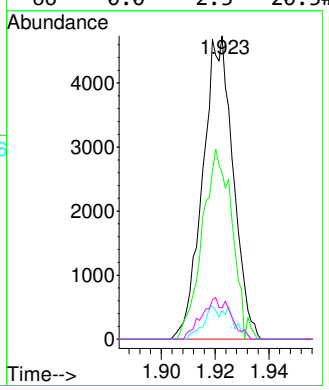


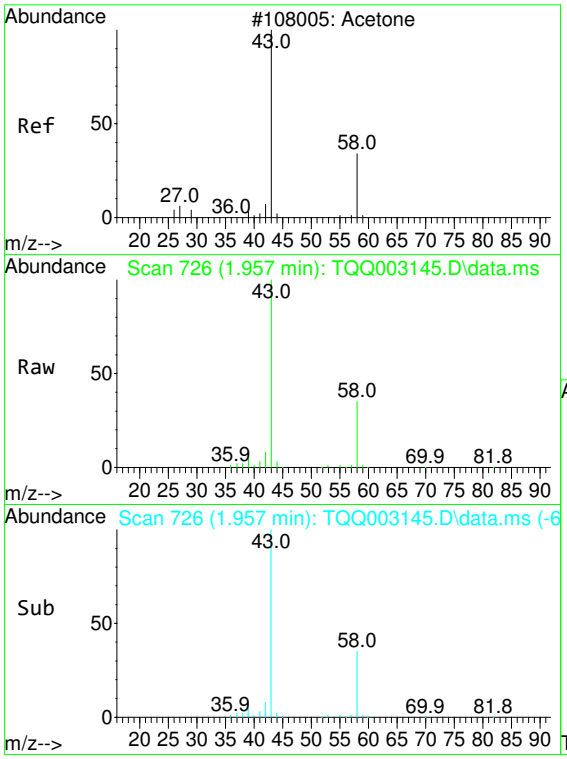


#12
Trichlorofluoromethane (Freon 11)
Concen: 0.21 ppbv
RT: 1.923 min Scan# 697
Delta R.T. 0.002 min
Lab File: TQQ003145.D
Acq: 10 Jul 2026 11:41 pm

Tgt Ion:101 Resp: 3708

Ion	Ratio	Lower	Upper
101	100		
103	61.5	52.2	78.4
105	0.0	2.1	19.3#
66	0.0	2.3	20.3#

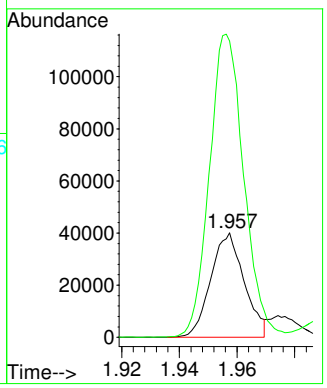


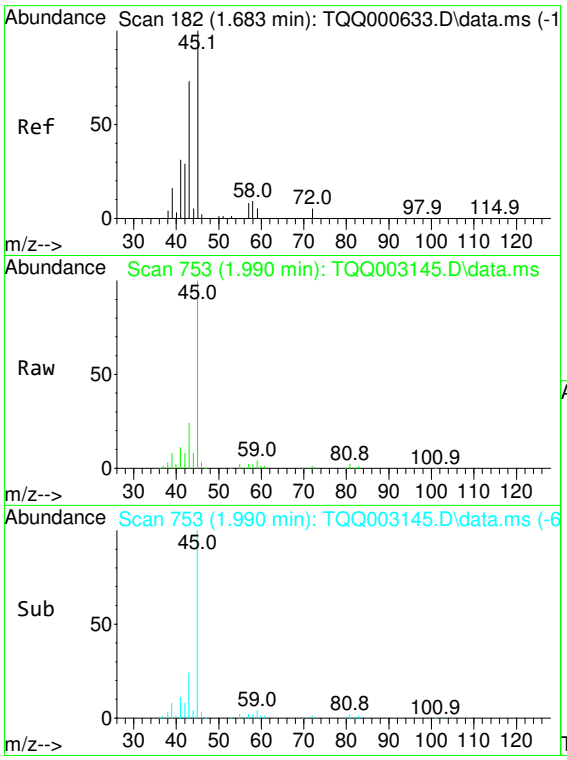


#14
Acetone
Concen: 8.66 ppbv
RT: 1.957 min Scan# 726
Delta R.T. 0.004 min
Lab File: TQQ003145.D
Acq: 10 Jul 2026 11:41 pm

Tgt Ion: 58 Resp: 32390

Ion	Ratio	Lower	Upper
58	100		
43	297.8	0.0	750.2

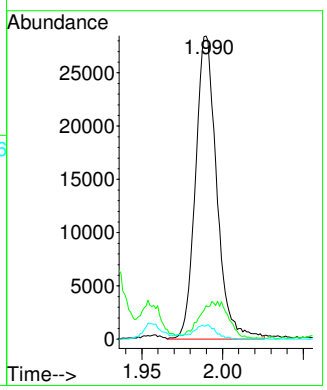


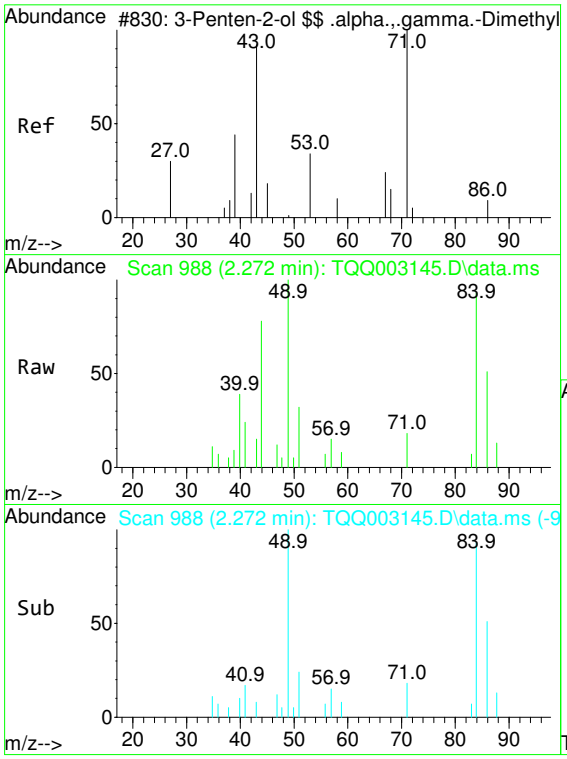


#15
Isopropanol
Concen: 2.29 ppbv
RT: 1.990 min Scan# 753
Delta R.T. 0.004 min
Lab File: TQQ003145.D
Acq: 10 Jul 2026 11:41 pm

Tgt Ion: 45 Resp: 26012

Ion	Ratio	Lower	Upper
45	100		
41	8.3	21.0	98.8#
59	0.0	0.0	8.8

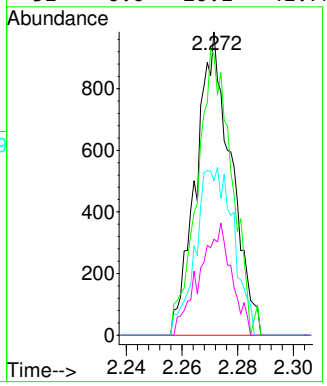


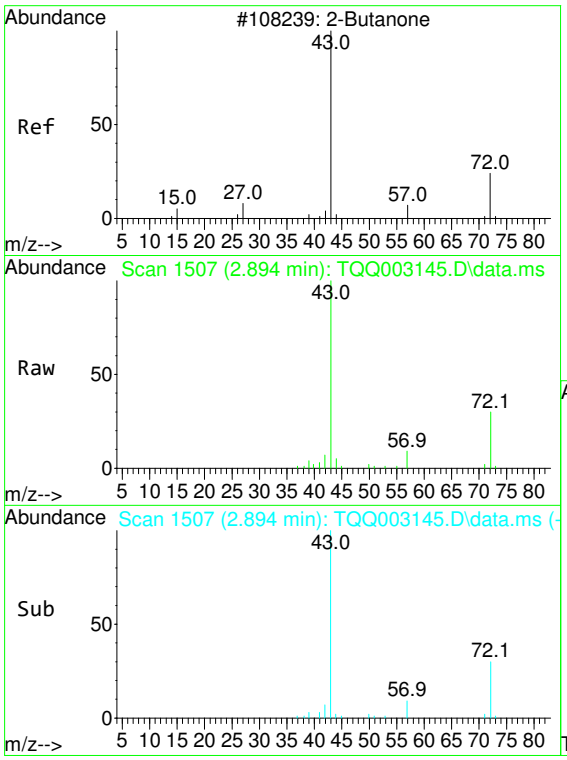


#19
Methylene Chloride
Concen: 0.11 ppbv
RT: 2.272 min Scan# 988
Delta R.T. 0.000 min
Lab File: TQQ003145.D
Acq: 10 Jul 2026 11:41 pm

Tgt Ion: 49 Resp: 857

Ion	Ratio	Lower	Upper
49	100		
84	92.3	57.9	86.9#
86	60.0	37.8	56.8#
51	0.0	20.1	41.7#

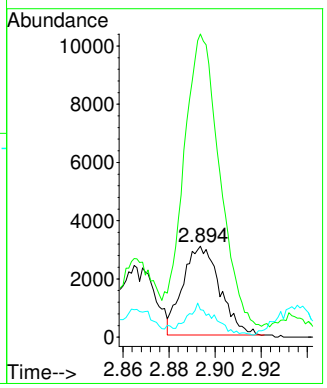


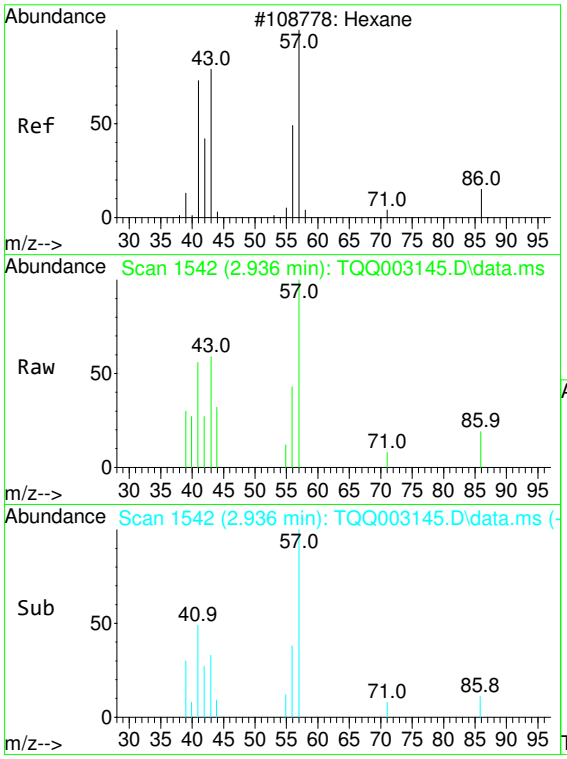


#26
2-Butanone
Concen: 0.80 ppbv
RT: 2.894 min Scan# 1507
Delta R.T. 0.002 min
Lab File: TQQ003145.D
Acq: 10 Jul 2026 11:41 pm

Tgt Ion: 72 Resp: 3403

Ion	Ratio	Lower	Upper
72	100		
43	338.2	459.1	688.7#
57	30.6	253.0	379.4#

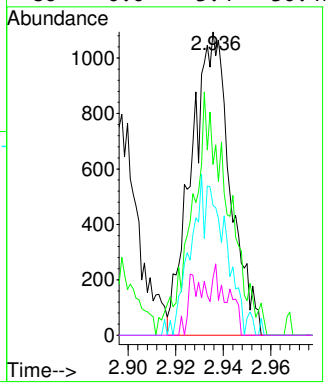


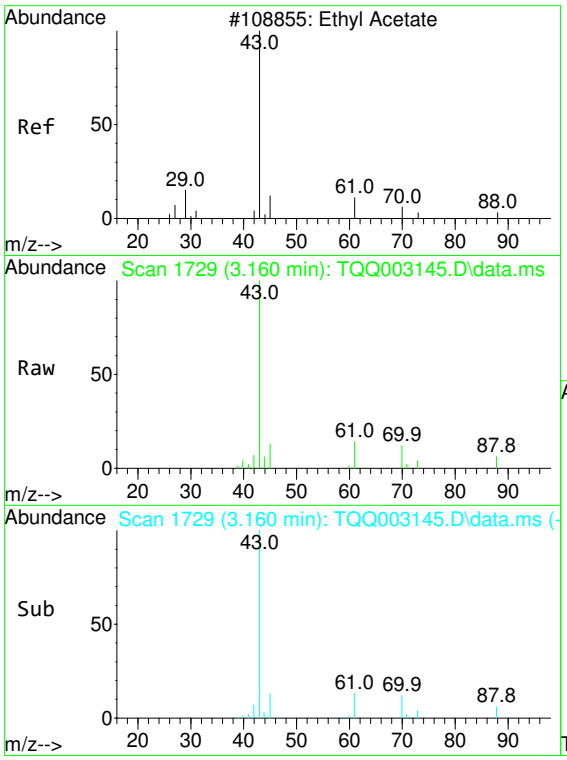


#27
n-Hexane
Concen: 0.10 ppbv
RT: 2.936 min Scan# 1542
Delta R.T. -0.002 min
Lab File: TQQ003145.D
Acq: 10 Jul 2026 11:41 pm

Tgt Ion: 57 Resp: 1246

Ion	Ratio	Lower	Upper
57	100		
41	71.2	55.6	83.4
56	0.0	30.4	63.2#
86	0.0	3.4	30.4#

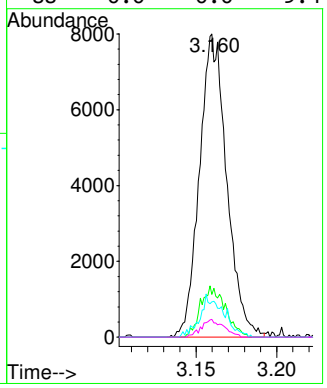


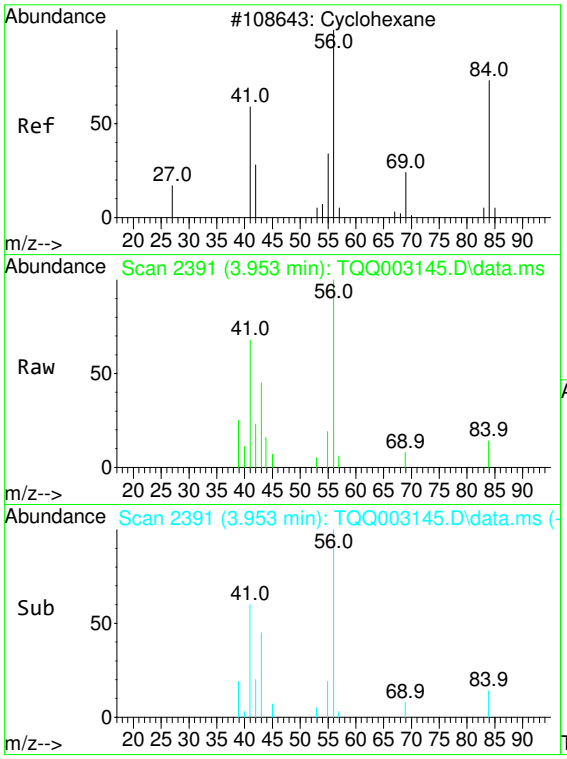


#29
Ethyl Acetate
Concen: 0.36 ppbv
RT: 3.160 min Scan# 1729
Delta R.T. 0.001 min
Lab File: TQQ003145.D
Acq: 10 Jul 2026 11:41 pm

Tgt Ion: 43 Resp: 9378

Ion	Ratio	Lower	Upper
43	100		
61	15.2	2.8	25.4
70	5.4	2.2	20.2
88	0.0	0.0	9.4

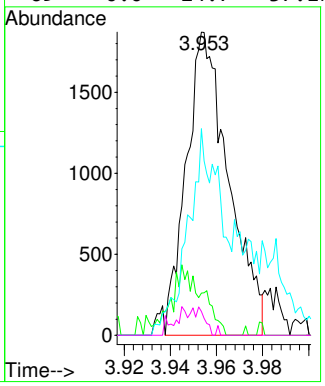


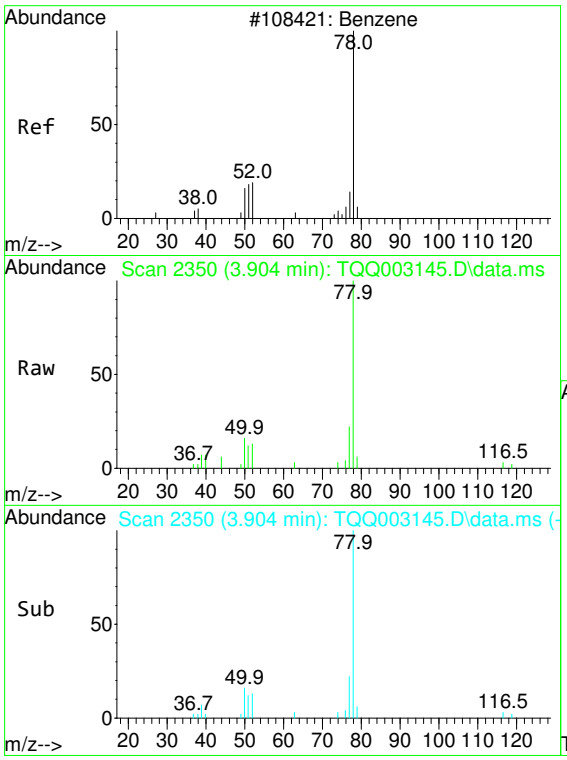


#34
Cyclohexane
Concen: 0.18 ppbv
RT: 3.953 min Scan# 2391
Delta R.T. 0.004 min
Lab File: TQQ003145.D
Acq: 10 Jul 2026 11:41 pm

Tgt Ion: 56 Resp: 2386

Ion	Ratio	Lower	Upper
56	100		
84	0.0	78.6	117.8#
41	33.3	45.8	68.6#
69	0.0	24.7	37.1#

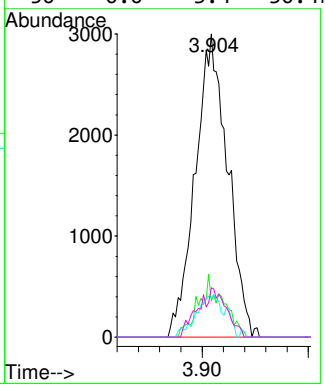


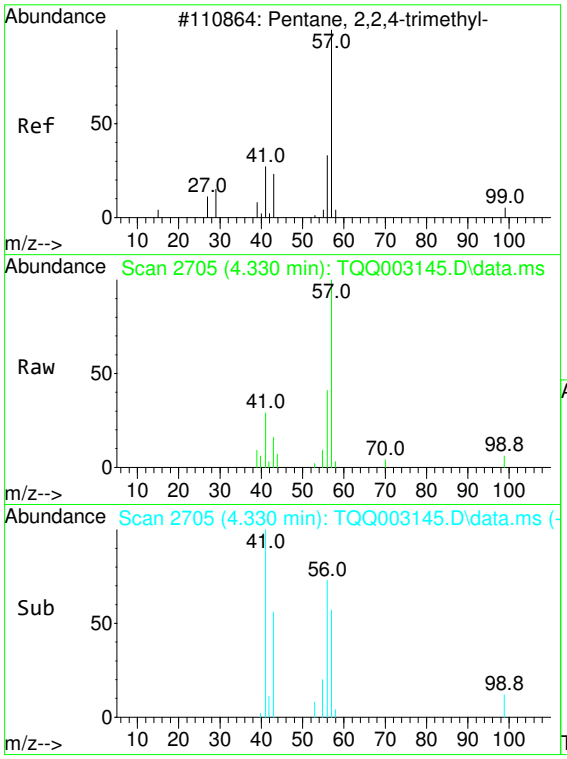


#35
Benzene
Concen: 0.12 ppbv
RT: 3.904 min Scan# 2350
Delta R.T. -0.004 min
Lab File: TQQ003145.D
Acq: 10 Jul 2026 11:41 pm

Tgt Ion: 78 Resp: 3153

Ion	Ratio	Lower	Upper
78	100		
51	0.0	3.9	35.1#
52	0.0	3.6	32.0#
50	0.0	3.4	30.4#

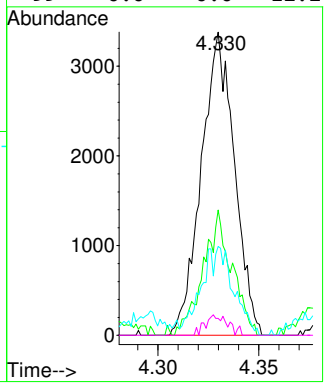


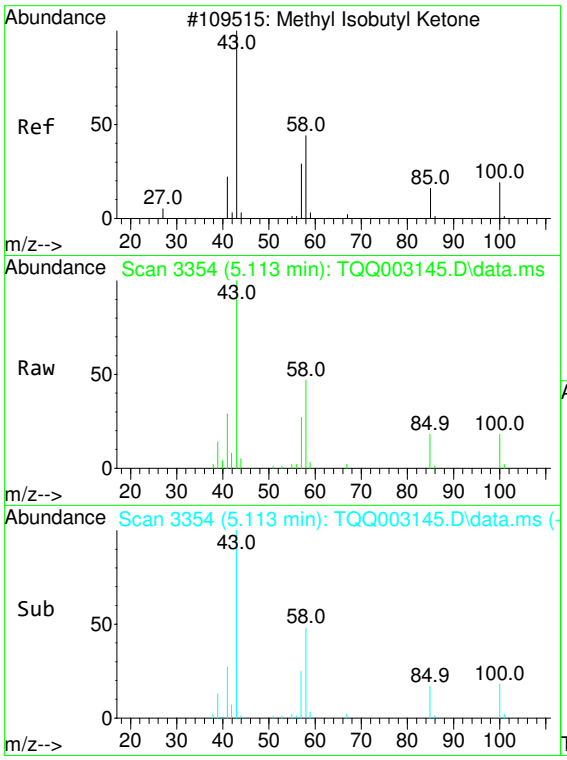


#37
2,2,4-Trimethylpentane
Concen: 0.10 ppbv
RT: 4.330 min Scan# 2705
Delta R.T. -0.001 min
Lab File: TQQ003145.D
Acq: 10 Jul 2026 11:41 pm

Tgt Ion: 57 Resp: 3854

Ion	Ratio	Lower	Upper
57	100		
56	28.5	16.7	50.0
41	16.7	10.6	42.4
99	0.0	0.0	12.2

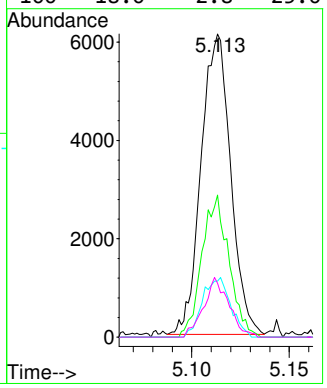


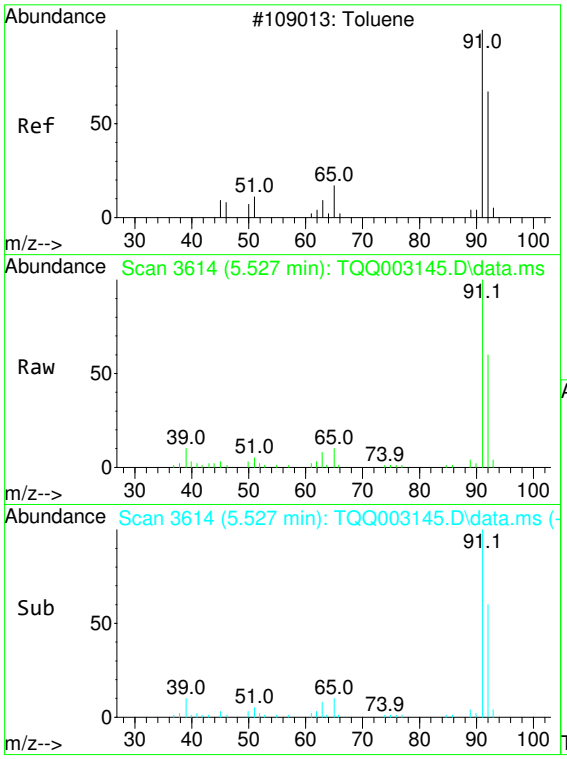


#46
4-Methyl-2-pentanone
Concen: 0.36 ppbv
RT: 5.113 min Scan# 3354
Delta R.T. -0.002 min
Lab File: TQQ003145.D
Acq: 10 Jul 2026 11:41 pm

Tgt Ion: 43 Resp: 5913

Ion	Ratio	Lower	Upper
43	100		
58	44.5	23.9	49.5
85	19.9	5.8	27.2
100	18.0	2.8	25.0

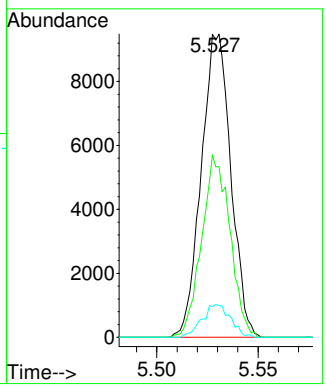


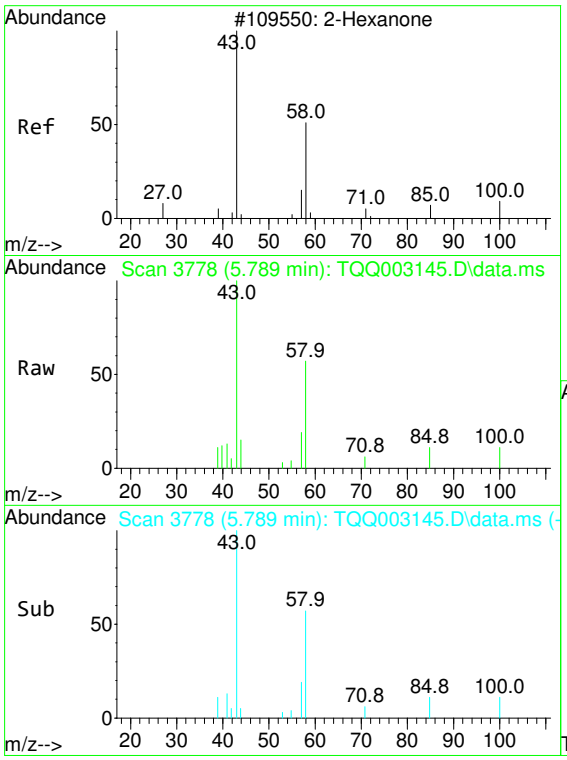


#48
Toluene
Concen: 0.34 ppbv
RT: 5.527 min Scan# 3614
Delta R.T. -0.003 min
Lab File: TQQ003145.D
Acq: 10 Jul 2026 11:41 pm

Tgt Ion: 91 Resp: 9635

Ion	Ratio	Lower	Upper
91	100		
92	57.5	47.1	70.7
65	10.5	2.3	21.1

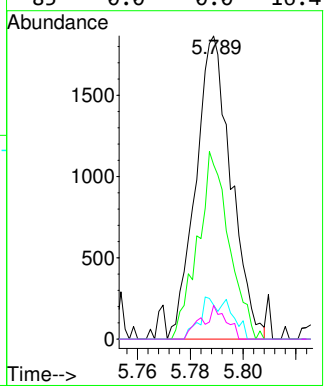


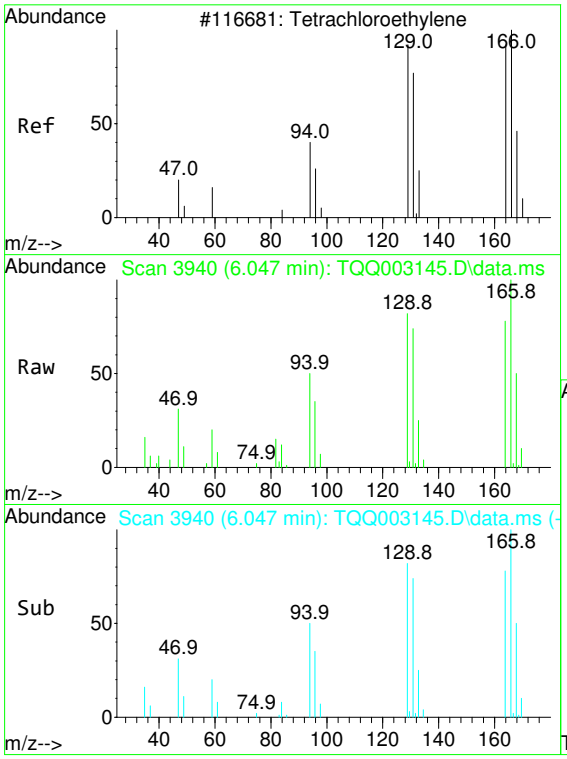


#51
2-Hexanone
Concen: 0.11 ppbv
RT: 5.789 min Scan# 3778
Delta R.T. -0.000 min
Lab File: TQQ003145.D
Acq: 10 Jul 2026 11:41 pm

Tgt Ion: 43 Resp: 1735

Ion	Ratio	Lower	Upper
43	100		
58	54.8	41.1	61.7
100	0.0	2.1	19.1#
85	0.0	0.0	16.4

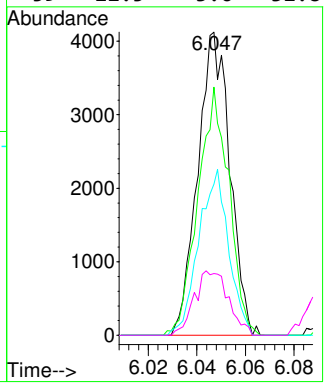


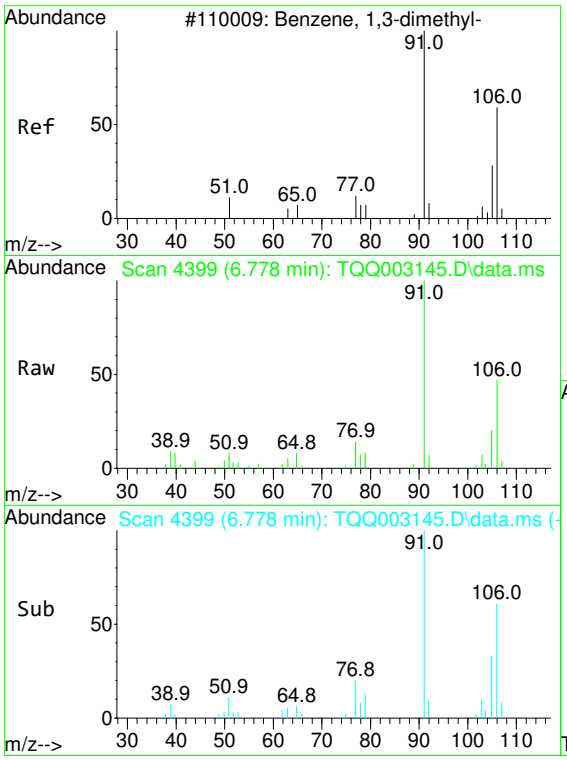


#54
Tetrachloroethylene
Concen: 0.30 ppbv
RT: 6.047 min Scan# 3940
Delta R.T. -0.002 min
Lab File: TQQ003145.D
Acq: 10 Jul 2026 11:41 pm

Tgt Ion:166 Resp: 3785

Ion	Ratio	Lower	Upper
166	100		
129	79.0	63.7	95.5
94	50.9	31.0	64.4
59	22.5	3.6	32.8

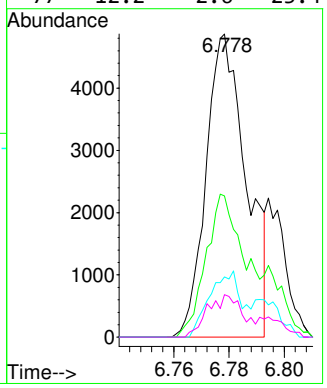


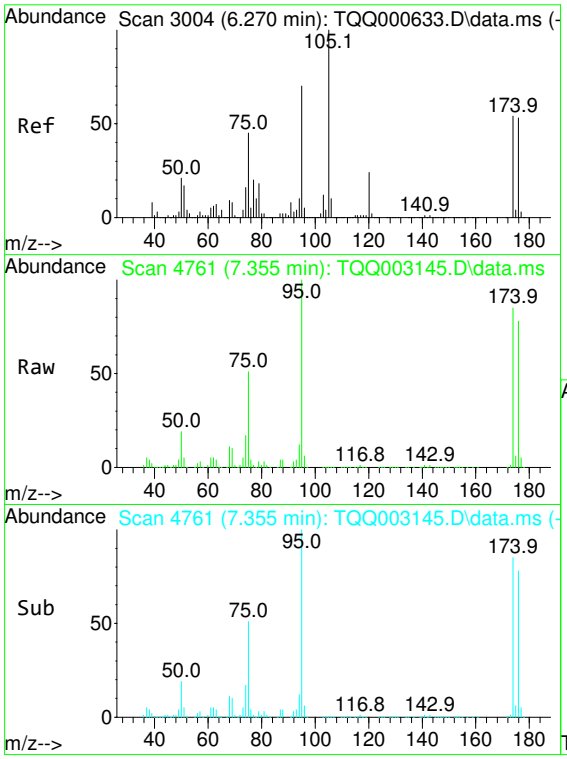


#59
p- & m- Xylenes
Concen: 0.31 ppbv
RT: 6.778 min Scan# 4399
Delta R.T. -0.002 min
Lab File: TQQ003145.D
Acq: 10 Jul 2026 11:41 pm

Tgt Ion: 91 Resp: 4933

Ion	Ratio	Lower	Upper
91	100		
106	45.0	40.8	61.2
105	17.5	11.1	33.1
77	12.2	2.6	23.4

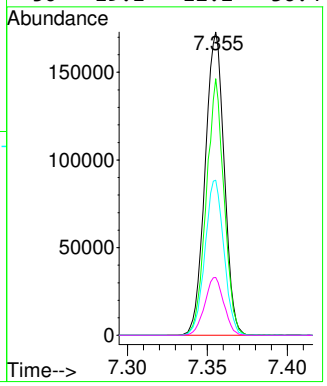


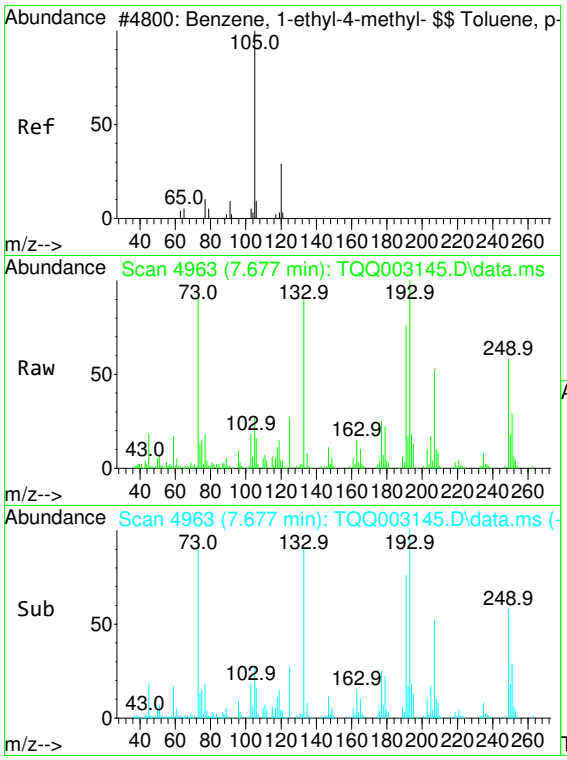


#64
p-Bromofluorobenzene
Concen: 9.44 ppbv
RT: 7.355 min Scan# 4761
Delta R.T. 0.000 min
Lab File: TQQ003145.D
Acq: 10 Jul 2026 11:41 pm

Tgt Ion: 95 Resp: 144165

Ion	Ratio	Lower	Upper
95	100		
174	78.3	58.4	87.6
75	50.7	38.6	58.0
50	19.1	12.2	36.4

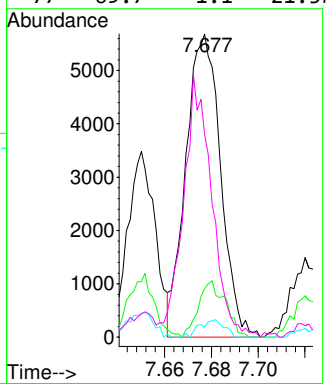


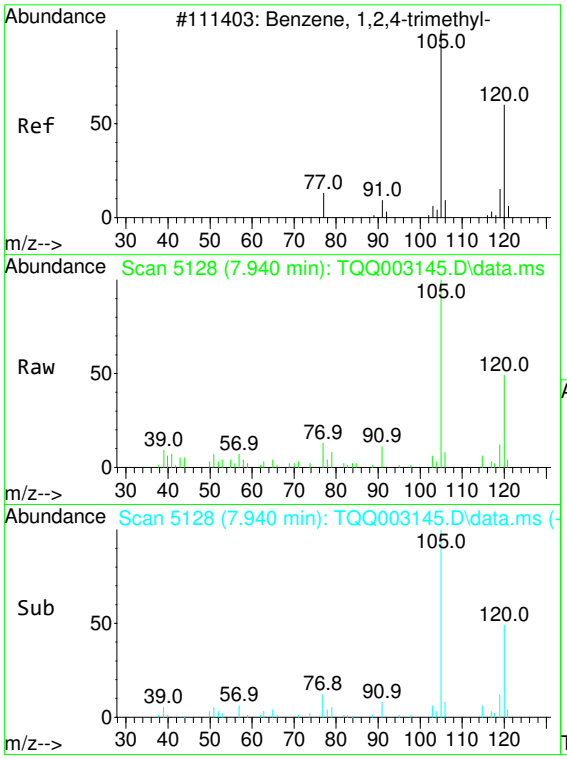


#67
p-Ethyltoluene
Concen: 0.14 ppbv
RT: 7.677 min Scan# 4963
Delta R.T. -0.005 min
Lab File: TQQ003145.D
Acq: 10 Jul 2026 11:41 pm

Tgt Ion:105 Resp: 5870

Ion	Ratio	Lower	Upper
105	100		
120	14.3	19.8	41.0#
91	0.0	1.1	20.9#
77	69.7	1.1	21.5#

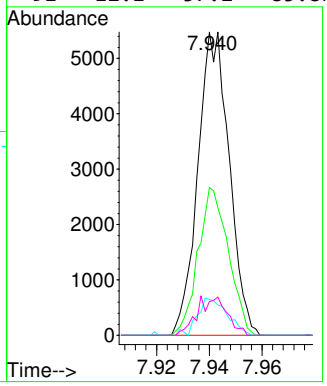


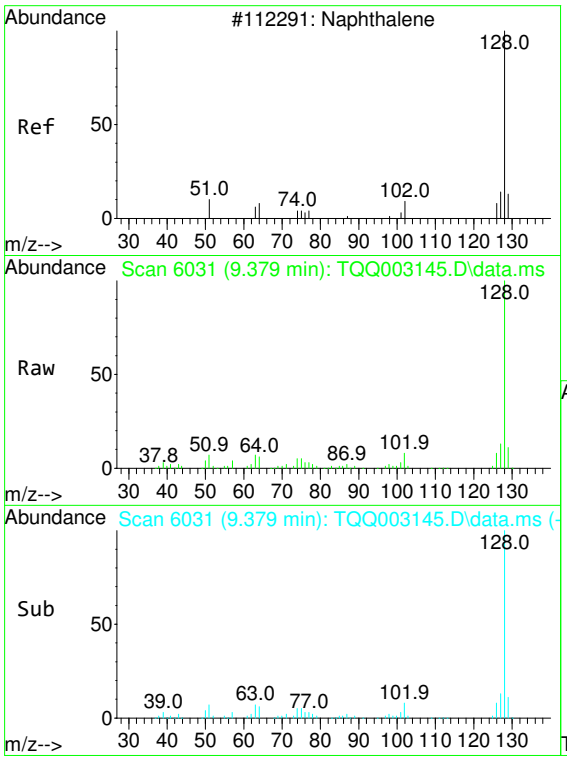


#70
1,2,4-Trimethylbenzene
Concen: 0.12 ppbv
RT: 7.940 min Scan# 5128
Delta R.T. -0.003 min
Lab File: TQQ003145.D
Acq: 10 Jul 2026 11:41 pm

Tgt Ion:105 Resp: 4516

Ion	Ratio	Lower	Upper
105	100		
120	47.0	44.9	67.3
119	11.6	83.3	124.9#
91	12.1	57.2	85.8#

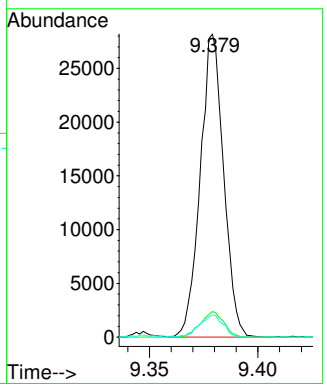




#79
Naphthalene
Concen: 0.36 ppbv
RT: 9.379 min Scan# 6031
Delta R.T. 0.000 min
Lab File: TQQ003145.D
Acq: 10 Jul 2026 11:41 pm

Tgt Ion:128 Resp: 21206

Ion	Ratio	Lower	Upper
128	100		
102	8.4	0.0	16.8
51	7.4	0.0	14.4



FORM III

LCS / LCS DUPLICATE RECOVERY

EPA TO-15

Laboratory:	ALS Environmental - Stratford	SDG:	26G0459
Client:	Hydro Tech Environmental	Project:	152 Graham Avenue Brooklyn, NY 240052
Matrix:	Air		
Batch:	BG60574	Laboratory ID:	BG60574-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	9.69	96.9	70 - 130	
1,1,1-Trichloroethane	10.0	8.53	85.3	70 - 130	
1,1,2,2-Tetrachloroethane	10.0	10.1	101	70 - 130	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.0	10.0	100	70 - 130	
1,1,2-Trichloroethane	10.0	10.2	102	70 - 130	
1,1-Dichloroethane	10.0	8.39	83.9	70 - 130	
1,1-Dichloroethylene	10.0	8.72	87.2	70 - 130	
1,2,4-Trichlorobenzene	10.0	10.0	100	70 - 130	
1,2,4-Trimethylbenzene	10.0	10.1	101	70 - 130	
1,2-Dibromoethane	10.0	10.0	100	70 - 130	
1,2-Dichlorobenzene	10.0	9.89	98.9	70 - 130	
1,2-Dichloroethane	10.0	8.40	84.0	70 - 130	
1,2-Dichloropropane	10.0	9.73	97.3	70 - 130	
1,2-Dichlorotetrafluoroethane	10.0	12.3	123	70 - 130	
1,3,5-Trimethylbenzene	10.0	10.0	100	70 - 130	
1,3-Butadiene	10.0	9.89	98.9	70 - 130	
1,3-Dichlorobenzene	10.0	10.6	106	70 - 130	
1,3-Dichloropropane	10.0	10.1	101	70 - 130	
1,4-Dichlorobenzene	10.0	10.2	102	70 - 130	
1,4-Dioxane	10.0	9.75	97.5	70 - 130	
2,2,4-Trimethylpentane	10.0	8.49	84.9	70 - 130	
2-Butanone	10.0	8.35	83.5	70 - 130	
2-Hexanone	10.0	9.29	92.9	70 - 130	
3-Chloropropene	10.0	7.49	74.9	70 - 130	
4-Methyl-2-pentanone	10.0	9.62	96.2	70 - 130	
Acetone	10.0	8.82	88.2	70 - 130	
Acrylonitrile	10.0	8.15	81.5	70 - 130	

FORM III

LCS / LCS DUPLICATE RECOVERY

EPA TO-15

Laboratory:	ALS Environmental - Stratford	SDG:	26G0459
Client:	Hydro Tech Environmental	Project:	152 Graham Avenue Brooklyn, NY 240052
Matrix:	Air		
Batch:	BG60574	Laboratory ID:	BG60574-BS1
Preparation:	EPA TO15 PREP	Initial/Final:	400 mL / 400 mL

COMPOUND	SPIKE ADDED (ppbv)	LCS CONCENTRATION (ppbv)	LCS % REC. #	QC LIMITS REC.	Q
Benzene	10.0	8.30	83.0	70 - 130	
Benzyl chloride	10.0	7.78	77.8	70 - 130	
Bromodichloromethane	10.0	10.2	102	70 - 130	
Bromoform	10.0	10.4	104	70 - 130	
Bromomethane	10.0	11.0	110	70 - 130	
Carbon disulfide	10.0	9.74	97.4	70 - 130	
Carbon tetrachloride	10.0	9.19	91.9	70 - 130	
Chlorobenzene	10.0	9.75	97.5	70 - 130	
Chloroethane	10.0	9.93	99.3	70 - 130	
Chloroform	10.0	11.6	116	70 - 130	
Chloromethane	10.0	10.6	106	70 - 130	
cis-1,2-Dichloroethylene	10.0	11.0	110	70 - 130	
cis-1,3-Dichloropropylene	10.0	9.75	97.5	70 - 130	
Cyclohexane	10.0	7.80	78.0	70 - 130	
Dibromochloromethane	10.0	10.6	106	70 - 130	
Dichlorodifluoromethane	10.0	8.53	85.3	70 - 130	
Ethyl acetate	10.0	7.84	78.4	70 - 130	
Ethyl Benzene	10.0	9.53	95.3	70 - 130	
Hexachlorobutadiene	10.0	10.8	108	70 - 130	
Isopropanol	10.0	8.00	80.0	70 - 130	
Methyl Methacrylate	10.0	8.58	85.8	70 - 130	
Methyl tert-butyl ether (MTBE)	10.0	11.0	110	70 - 130	
Methylene chloride	10.0	8.73	87.3	70 - 130	
Naphthalene	10.0	9.92	99.2	70 - 130	
n-Heptane	10.0	8.81	88.1	70 - 130	
n-Hexane	10.0	8.18	81.8	70 - 130	
o-Xylene	10.0	9.94	99.4	70 - 130	

FORM III

LCS / LCS DUPLICATE RECOVERY

EPA TO-15

Laboratory:	ALS Environmental - Stratford	SDG:	26G0459
Client:	Hydro Tech Environmental	Project:	152 Graham Avenue Brooklyn, NY 240052
Matrix:	Air		
Batch:	BG60574	Laboratory ID:	BG60574-BS1
Preparation:	EPA TO15 PREP	Initial/Final:	400 mL / 400 mL

COMPOUND	SPIKE ADDED (ppbv)	LCS CONCENTRATION (ppbv)	LCS % REC. #	QC LIMITS REC.	Q
p- & m- Xylenes	20.0	18.5	92.4	70 - 130	
p-Ethyltoluene	10.0	9.86	98.6	70 - 130	
Propylene	10.0	6.24	62.4 *	70 - 130	
Styrene	10.0	9.93	99.3	70 - 130	
Tetrachloroethylene	10.0	10.2	102	70 - 130	
Tetrahydrofuran	10.0	7.51	75.1	70 - 130	
Toluene	10.0	9.99	99.9	70 - 130	
trans-1,2-Dichloroethylene	10.0	9.21	92.1	70 - 130	
trans-1,3-Dichloropropylene	10.0	9.75	97.5	70 - 130	
Trichloroethylene	10.0	10.3	103	70 - 130	
Trichlorofluoromethane (Freon 11)	10.0	10.4	104	70 - 130	
Vinyl acetate	10.0	5.70	57.0 *	70 - 130	
Vinyl bromide	10.0	10.7	107	70 - 130	
Vinyl Chloride	10.0	10.9	109	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:	26G0459
Client:	Hydro Tech Environmental	Project:	152 Graham Avenue Brooklyn, NY 240052
Matrix:	Air		
Batch:	BG60588	Laboratory ID:	BG60588-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	9.18	91.8	70 - 130	
1,1,1-Trichloroethane	10.0	8.25	82.5	70 - 130	
1,1,2,2-Tetrachloroethane	10.0	9.56	95.6	70 - 130	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.0	9.74	97.4	70 - 130	
1,1,2-Trichloroethane	10.0	9.77	97.7	70 - 130	
1,1-Dichloroethane	10.0	8.04	80.4	70 - 130	
1,1-Dichloroethylene	10.0	8.43	84.3	70 - 130	
1,2,4-Trichlorobenzene	10.0	9.01	90.1	70 - 130	
1,2,4-Trimethylbenzene	10.0	9.62	96.2	70 - 130	
1,2-Dibromoethane	10.0	9.71	97.1	70 - 130	
1,2-Dichlorobenzene	10.0	9.46	94.6	70 - 130	
1,2-Dichloroethane	10.0	8.05	80.5	70 - 130	
1,2-Dichloropropane	10.0	9.38	93.8	70 - 130	
1,2-Dichlorotetrafluoroethane	10.0	12.7	127	70 - 130	
1,3,5-Trimethylbenzene	10.0	9.57	95.7	70 - 130	
1,3-Butadiene	10.0	10.4	104	70 - 130	
1,3-Dichlorobenzene	10.0	10.2	102	70 - 130	
1,3-Dichloropropane	10.0	9.72	97.2	70 - 130	
1,4-Dichlorobenzene	10.0	9.62	96.2	70 - 130	
1,4-Dioxane	10.0	8.69	86.9	70 - 130	
2,2,4-Trimethylpentane	10.0	8.19	81.9	70 - 130	
2-Butanone	10.0	7.60	76.0	70 - 130	
2-Hexanone	10.0	8.00	80.0	70 - 130	
3-Chloropropene	10.0	7.29	72.9	70 - 130	
4-Methyl-2-pentanone	10.0	8.98	89.8	70 - 130	
Acetone	10.0	8.24	82.4	70 - 130	
Acrylonitrile	10.0	7.32	73.2	70 - 130	

FORM III

LCS / LCS DUPLICATE RECOVERY

EPA TO-15

Laboratory:	ALS Environmental - Stratford	SDG:	26G0459
Client:	Hydro Tech Environmental	Project:	152 Graham Avenue Brooklyn, NY 240052
Matrix:	Air		
Batch:	BG60588	Laboratory ID:	BG60588-BS1
Preparation:	EPA TO15 PREP	Initial/Final:	400 mL / 400 mL

COMPOUND	SPIKE ADDED (ppbv)	LCS CONCENTRATION (ppbv)	LCS % REC. #	QC LIMITS REC.	Q
Benzene	10.0	7.93	79.3	70 - 130	
Benzyl chloride	10.0	7.37	73.7	70 - 130	
Bromodichloromethane	10.0	9.79	97.9	70 - 130	
Bromoform	10.0	9.84	98.4	70 - 130	
Bromomethane	10.0	11.2	112	70 - 130	
Carbon disulfide	10.0	9.18	91.8	70 - 130	
Carbon tetrachloride	10.0	8.76	87.6	70 - 130	
Chlorobenzene	10.0	9.31	93.1	70 - 130	
Chloroethane	10.0	10.2	102	70 - 130	
Chloroform	10.0	11.1	111	70 - 130	
Chloromethane	10.0	11.3	113	70 - 130	
cis-1,2-Dichloroethylene	10.0	8.60	86.0	70 - 130	
cis-1,3-Dichloropropylene	10.0	9.33	93.3	70 - 130	
Cyclohexane	10.0	7.54	75.4	70 - 130	
Dibromochloromethane	10.0	9.93	99.3	70 - 130	
Dichlorodifluoromethane	10.0	9.12	91.2	70 - 130	
Ethyl acetate	10.0	7.37	73.7	70 - 130	
Ethyl Benzene	10.0	9.33	93.3	70 - 130	
Hexachlorobutadiene	10.0	10.5	105	70 - 130	
Isopropanol	10.0	7.50	75.0	70 - 130	
Methyl Methacrylate	10.0	8.10	81.0	70 - 130	
Methyl tert-butyl ether (MTBE)	10.0	8.69	86.9	70 - 130	
Methylene chloride	10.0	8.55	85.5	70 - 130	
Naphthalene	10.0	8.47	84.7	70 - 130	
n-Heptane	10.0	8.58	85.8	70 - 130	
n-Hexane	10.0	7.90	79.0	70 - 130	
o-Xylene	10.0	9.64	96.4	70 - 130	

FORM III

LCS / LCS DUPLICATE RECOVERY

EPA TO-15

Laboratory:	ALS Environmental - Stratford	SDG:	26G0459
Client:	Hydro Tech Environmental	Project:	152 Graham Avenue Brooklyn, NY 240052
Matrix:	Air		
Batch:	BG60588	Laboratory ID:	BG60588-BS1
Preparation:	EPA TO15 PREP	Initial/Final:	400 mL / 400 mL

COMPOUND	SPIKE ADDED (ppbv)	LCS CONCENTRATION (ppbv)	LCS % REC. #	QC LIMITS REC.	Q
p- & m- Xylenes	20.0	19.1	95.7	70 - 130	
p-Ethyltoluene	10.0	9.53	95.3	70 - 130	
Propylene	10.0	6.06	60.6 *	70 - 130	
Styrene	10.0	9.65	96.5	70 - 130	
Tetrachloroethylene	10.0	9.70	97.0	70 - 130	
Tetrahydrofuran	10.0	7.07	70.7	70 - 130	
Toluene	10.0	9.49	94.9	70 - 130	
trans-1,2-Dichloroethylene	10.0	9.07	90.7	70 - 130	
trans-1,3-Dichloropropylene	10.0	9.33	93.3	70 - 130	
Trichloroethylene	10.0	9.94	99.4	70 - 130	
Trichlorofluoromethane (Freon 11)	10.0	10.2	102	70 - 130	
Vinyl acetate	10.0	4.70	47.0 *	70 - 130	
Vinyl bromide	10.0	10.8	108	70 - 130	
Vinyl Chloride	10.0	11.6	116	70 - 130	

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

* Values outside of QC limits

LCS RAW DATA

SDG: 26G0459
CLASS: AIR
METHOD: EPA TO-15

Quantitation Report (QT Reviewed)

Data Path : C:\MassHunter\GCMS\1\data\2026\7-JULY\071026\
Data File : TQQ003131.D
Acq On : 10 Jul 2026 01:39 pm
Operator : YR
Sample : BG60574-BS1
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 10 14:26:10 2026
Quant Method : C:\MassHunter\GCMS\1\methods\QA4 01JUNE2026(updated070726).m
Quant Title : TO-15
QLast Update : Tue Jul 07 14:14:35 2026
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Methane, bromochloro-	3.269	130	54407	10.00	ppbv	#	0.02
38) 1,4-Difluorobenzene-IS	4.263	114	207172	10.00	ppbv		0.01
55) Chlorobenzene-d5-IS	6.516	117	192056	10.00	ppbv		0.00
Target Compounds							Qvalue
2) Propylene	1.494	41	30081	6.24	ppbv		95
3) Dichlorodifluoromethane	1.507	85	149161	8.53	ppbv		99
4) 1,2-Dichlorotetrafluor...	1.558	85	197666	12.32	ppbv	#	87
5) Chloromethane	1.555	50	73755	10.62	ppbv		99
6) Chloroethane	1.763	64	34020	9.93	ppbv		99
7) 1,3-Butadiene	1.630	54	46916	9.89	ppbv		98
8) Bromomethane	1.718	94	62505	11.05	ppbv		99
9) Vinyl Chloride	1.605	62	66811	10.91	ppbv	#	83
10) Ethanol	1.998	45	87764	7.99	ppbv	#	1
11) Vinyl Bromide	1.852	106	66011	10.69	ppbv		98
12) Trichlorofluoromethane...	1.930	101	178346	10.41	ppbv		98
13) Acrolein	1.940	56	16655	8.33	ppbv		94
14) Acetone	1.966	58	31879	8.82	ppbv		60
15) Isopropanol	1.998	45	87764	8.00	ppbv		98
16) 1,1-Dichloroethylene	3.094	61	85465	8.72	ppbv	#	76
17) Acrylonitrile	2.178	53	46589	8.15	ppbv		99
18) 1,1,2-Trichloro-1,2,2-...	2.213	101	133179	10.04	ppbv		93
19) Methylene Chloride	2.286	49	65853	8.73	ppbv		89
20) 3-Chloropropene	2.284	41	61489	7.49	ppbv	#	86
21) Carbon Disulfide	2.328	76	176667	9.74	ppbv		100
22) trans-1,2-Dichloroethy...	2.148	61	96297	9.21	ppbv		92
23) Methyl-tert-Butyl-ethe...	2.600	73	223822	10.97	ppbv		95
24) 1,1-Dichloroethane	2.734	63	109914	8.39	ppbv		98
25) Vinyl Acetate	2.743	43	34429	5.70	ppbv		92
26) 2-Butanone	2.911	72	34231	8.35	ppbv	#	1
27) n-Hexane	2.957	57	94623	8.18	ppbv		95
28) cis-1,2-Dichloroethylene	2.591	61	109389	11.04	ppbv		93
29) Ethyl Acetate	3.179	43	196075	7.84	ppbv		95
30) Chloroform	3.349	83	142044	11.60	ppbv	#	83
31) Tetrahydrofuran	3.390	42	62663	7.51	ppbv		89
32) 1,1,1-Trichloroethane	3.675	97	138346	8.53	ppbv		99
33) 1,2-Dichloroethane	3.795	62	89789	8.40	ppbv		95
34) Cyclohexane	3.967	56	98852	7.80	ppbv		96
35) Benzene	3.925	78	212491	8.30	ppbv		93
36) Carbon Tetrachloride	3.942	117	142472	9.19	ppbv		98
37) 2,2,4-Trimethylpentane	4.346	57	310079	8.49	ppbv		99
39) n-Heptane	4.525	43	104778	8.81	ppbv	#	80
40) 1,2-Dichloropropane	4.579	63	74837	9.73	ppbv	#	82
41) Trichloroethylene	4.537	130	97787	10.32	ppbv		98
42) Bromodichloromethane	4.740	83	162079	10.15	ppbv		99
43) 1,4-Dioxane	4.645	88	52839	9.75	ppbv		90
44) Methyl Methacrylate	4.688	41	81138	8.58	ppbv	#	79
45) cis-1,3-Dichloropropylene	5.144	75	132583	9.75	ppbv	#	79
46) 4-Methyl-2-pentanone	5.125	43	149946	9.62	ppbv		87
47) trans-1,3-Dichloroprop...	5.144	75	132583	9.75	ppbv	#	75
48) Toluene	5.540	91	272742	9.99	ppbv		99
49) 1,1,2-Trichloroethane	5.679	97	92177	10.25	ppbv		100
50) 1,3-Dichloropropane	5.791	76	135077	10.12	ppbv		95
51) 2-Hexanone	5.797	43	146202	9.29	ppbv		90
52) Dibromochloromethane	6.006	129	173804	10.57	ppbv		96
53) 1,2-Dibromoethane	6.120	107	139678	10.04	ppbv		99

Data Path : C:\MassHunter\GCMS\1\data\2026\7-JULY\071026\
Data File : TQQ003131.D
Acq On : 10 Jul 2026 01:39 pm
Operator : YR
Sample : BG60574-BS1
Misc :
ALS Vial : 1 Sample Multiplier: 1

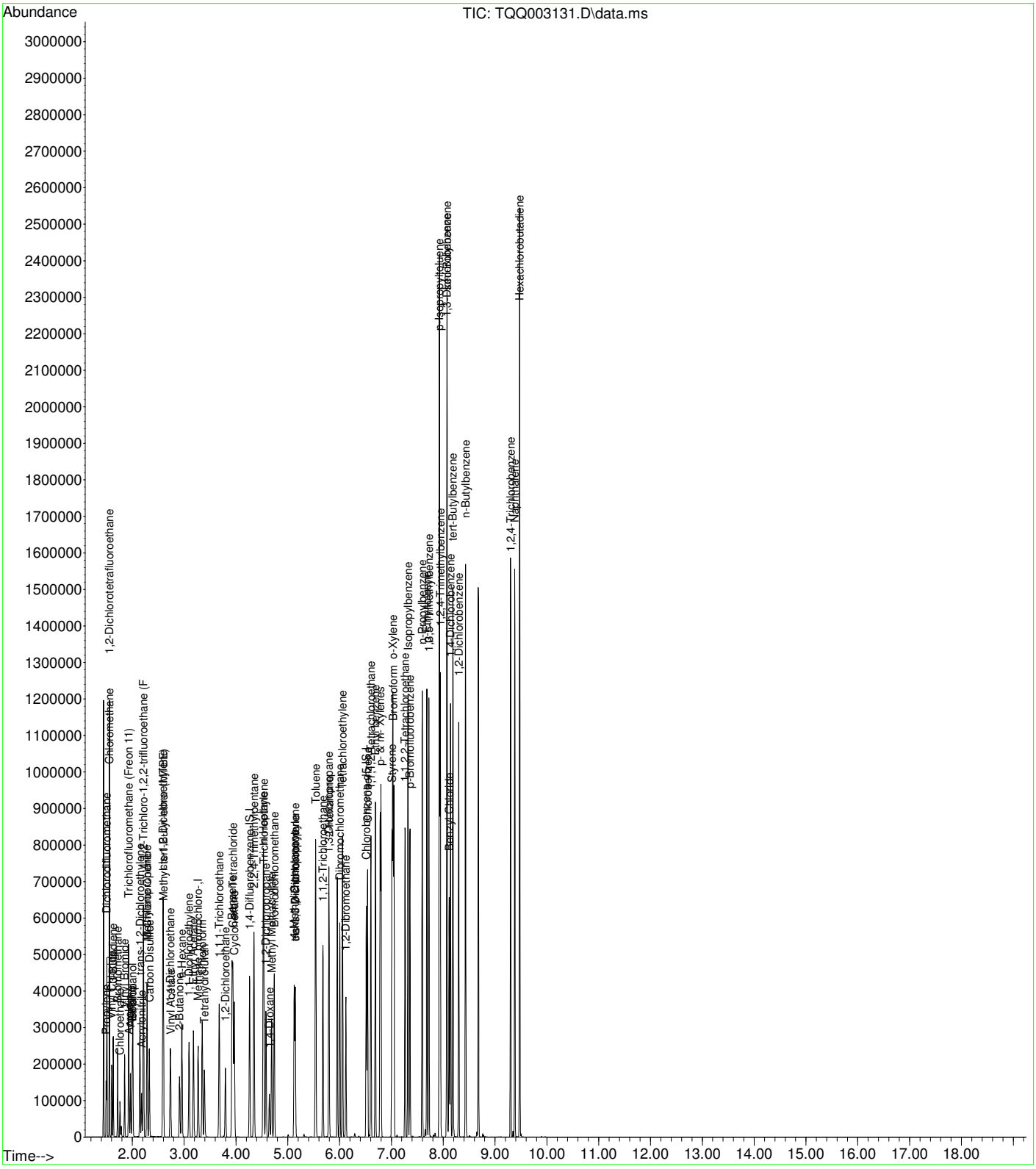
Quant Time: Jul 10 14:26:10 2026
Quant Method : C:\MassHunter\GCMS\1\methods\QA4 01JUNE2026(updated070726).m
Quant Title : TO-15
QLast Update : Tue Jul 07 14:14:35 2026
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
54) Tetrachloroethylene	6.057	166	125684	10.24	ppbv	96
56) Chlorobenzene	6.540	112	215508	9.75	ppbv	98
57) 1,1,1,2-Tetrachloroethane	6.605	131	116600	9.69	ppbv	95
58) Ethyl benzene	6.692	91	355745	9.53	ppbv	98
59) p- & m- Xylenes	6.785	91	280540	18.47	ppbv	98
60) Bromoform	7.034	173	169656	10.42	ppbv	99
61) Styrene	7.010	104	226995	9.93	ppbv	90
62) o-Xylene	7.026	91	325940	9.94	ppbv	91
63) 1,1,2,2-Tetrachloroethane	7.263	83	215901	10.06	ppbv	99
64) p-Bromofluorobenzene	7.357	95	143996	9.72	ppbv	92
65) Isopropylbenzene	7.320	105	412296	9.78	ppbv	98
66) n-Propylbenzene	7.596	91	507924	10.00	ppbv	99
67) p-Ethyltoluene	7.684	105	410693	9.86	ppbv	99
68) 1,3,5-Trimethylbenzene	7.725	105	345352	10.02	ppbv	98
69) tert-Butylbenzene	8.186	119	453258	10.50	ppbv #	59
70) 1,2,4-Trimethylbenzene	7.945	105	356839	10.08	ppbv #	28
71) 1,3-Dichlorobenzene	8.069	146	244662	10.61	ppbv	99
72) sec-Butylbenzene	8.074	105	545859	10.81	ppbv	99
73) 1,4-Dichlorobenzene	8.141	146	240415	10.25	ppbv	98
74) Benzyl Chloride	8.115	91	241371	7.78	ppbv	99
75) p-Isopropyltoluene	7.923	119	348645	10.59	ppbv #	58
76) 1,2-Dichlorobenzene	8.299	146	228185	9.89	ppbv	99
77) n-Butylbenzene	8.429	91	458592	10.52	ppbv	99
78) 1,2,4-Trichlorobenzene	9.301	180	226567	10.00	ppbv	97
79) Naphthalene	9.381	128	572621	9.92	ppbv	99
80) Hexachlorobutadiene	9.473	225	192644	10.79	ppbv	91

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

Data Path : C:\MassHunter\GCMS\1\data\2026\7-JULY\071026\
Data File : TQQ003131.D
Acq On : 10 Jul 2026 01:39 pm
Operator : YR
Sample : BG60574-BS1
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 10 14:26:10 2026
Quant Method : C:\MassHunter\GCMS\1\methods\QA4 01JUNE2026(updated070726).m
Quant Title : TO-15
QLast Update : Tue Jul 07 14:14:35 2026
Response via : Initial Calibration



LCS RAW DATA

SDG: 26G0459
CLASS: AIR
METHOD: EPA TO-15

Quantitation Report (Not Reviewed)

Data Path : C:\MassHunter\GCMS\1\data\2026\7-JULY\071326\
Data File : TQQ003157.D
Acq On : 13 Jul 2026 11:22 am
Operator : YR
Sample : BG60588-BS1
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 13 13:32:23 2026
Quant Method : C:\MassHunter\GCMS\1\methods\QA4 01JUNE2026(updated070726).m
Quant Title : TO-15
QLast Update : Tue Jul 07 14:14:35 2026
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Methane, bromochloro-	3.268	130	58066	10.00	ppbv	#	0.02
38) 1,4-Difluorobenzene-IS	4.263	114	219292	10.00	ppbv		0.01
55) Chlorobenzene-d5-IS	6.516	117	200919	10.00	ppbv		0.00
Target Compounds							Qvalue
2) Propylene	1.492	41	31177	6.06	ppbv		95
3) Dichlorodifluoromethane	1.507	85	170149	9.12	ppbv		99
4) 1,2-Dichlorotetrafluor...	1.557	85	217473	12.70	ppbv		89
5) Chloromethane	1.555	50	83728	11.30	ppbv		99
6) Chloroethane	1.761	64	37285	10.20	ppbv		99
7) 1,3-Butadiene	1.630	54	52557	10.39	ppbv		97
8) Bromomethane	1.718	94	67851	11.24	ppbv		98
9) Vinyl Chloride	1.603	62	75545	11.56	ppbv	#	83
10) Ethanol	1.996	45	87801	7.49	ppbv	#	1
11) Vinyl Bromide	1.851	106	70866	10.75	ppbv		98
12) Trichlorofluoromethane...	1.928	101	186549	10.21	ppbv		99
13) Acrolein	1.937	56	16561	7.76	ppbv		94
14) Acetone	1.962	58	31768	8.24	ppbv		61
15) Isopropanol	1.996	45	87801	7.50	ppbv		92
16) 1,1-Dichloroethylene	3.093	61	88148	8.43	ppbv	#	77
17) Acrylonitrile	2.177	53	44686	7.32	ppbv		98
18) 1,1,2-Trichloro-1,2,2-...	2.212	101	137901	9.74	ppbv		94
19) Methylene Chloride	2.282	49	68843	8.55	ppbv		90
20) 3-Chloropropene	2.279	41	63836	7.29	ppbv	#	86
21) Carbon Disulfide	2.327	76	177711	9.18	ppbv		100
22) trans-1,2-Dichloroethy...	2.145	61	101143	9.07	ppbv		92
23) Methyl-tert-Butyl-ethe...	2.597	73	189097	8.69	ppbv		95
24) 1,1-Dichloroethane	2.732	63	112527	8.04	ppbv		98
25) Vinyl Acetate	2.739	43	30287	4.70	ppbv		93
26) 2-Butanone	2.907	72	33254	7.60	ppbv	#	1
27) n-Hexane	2.954	57	97507	7.90	ppbv		94
28) cis-1,2-Dichloroethylene	2.587	61	91028	8.60	ppbv		95
29) Ethyl Acetate	3.176	43	196757	7.37	ppbv		96
30) Chloroform	3.345	83	144616	11.07	ppbv	#	83
31) Tetrahydrofuran	3.388	42	62978	7.07	ppbv		89
32) 1,1,1-Trichloroethane	3.675	97	142839	8.25	ppbv		99
33) 1,2-Dichloroethane	3.793	62	91789	8.05	ppbv		97
34) Cyclohexane	3.966	56	101983	7.54	ppbv		95
35) Benzene	3.921	78	216748	7.93	ppbv		93
36) Carbon Tetrachloride	3.939	117	144970	8.76	ppbv		99
37) 2,2,4-Trimethylpentane	4.346	57	318990	8.19	ppbv		99
39) n-Heptane	4.525	43	107983	8.58	ppbv	#	79
40) 1,2-Dichloropropane	4.578	63	76368	9.38	ppbv	#	82
41) Trichloroethylene	4.534	130	99662	9.94	ppbv		98
42) Bromodichloromethane	4.738	83	165431	9.79	ppbv		99
43) 1,4-Dioxane	4.643	88	49864	8.69	ppbv		91
44) Methyl Methacrylate	4.687	41	81041	8.10	ppbv	#	79
45) cis-1,3-Dichloropropylene	5.144	75	134278	9.33	ppbv	#	79
46) 4-Methyl-2-pentanone	5.121	43	148030	8.98	ppbv		88
47) trans-1,3-Dichloroprop...	5.144	75	134278	9.33	ppbv	#	75
48) Toluene	5.539	91	274285	9.49	ppbv		100
49) 1,1,2-Trichloroethane	5.677	97	92986	9.77	ppbv		99
50) 1,3-Dichloropropane	5.789	76	137255	9.72	ppbv		96
51) 2-Hexanone	5.797	43	133357	8.00	ppbv		89
52) Dibromochloromethane	6.003	129	172964	9.93	ppbv		98
53) 1,2-Dibromoethane	6.120	107	142965	9.71	ppbv		97

Data Path : C:\MassHunter\GCMS\1\data\2026\7-JULY\071326\
Data File : TQQ003157.D
Acq On : 13 Jul 2026 11:22 am
Operator : YR
Sample : BG60588-BS1
Misc :
ALS Vial : 1 Sample Multiplier: 1

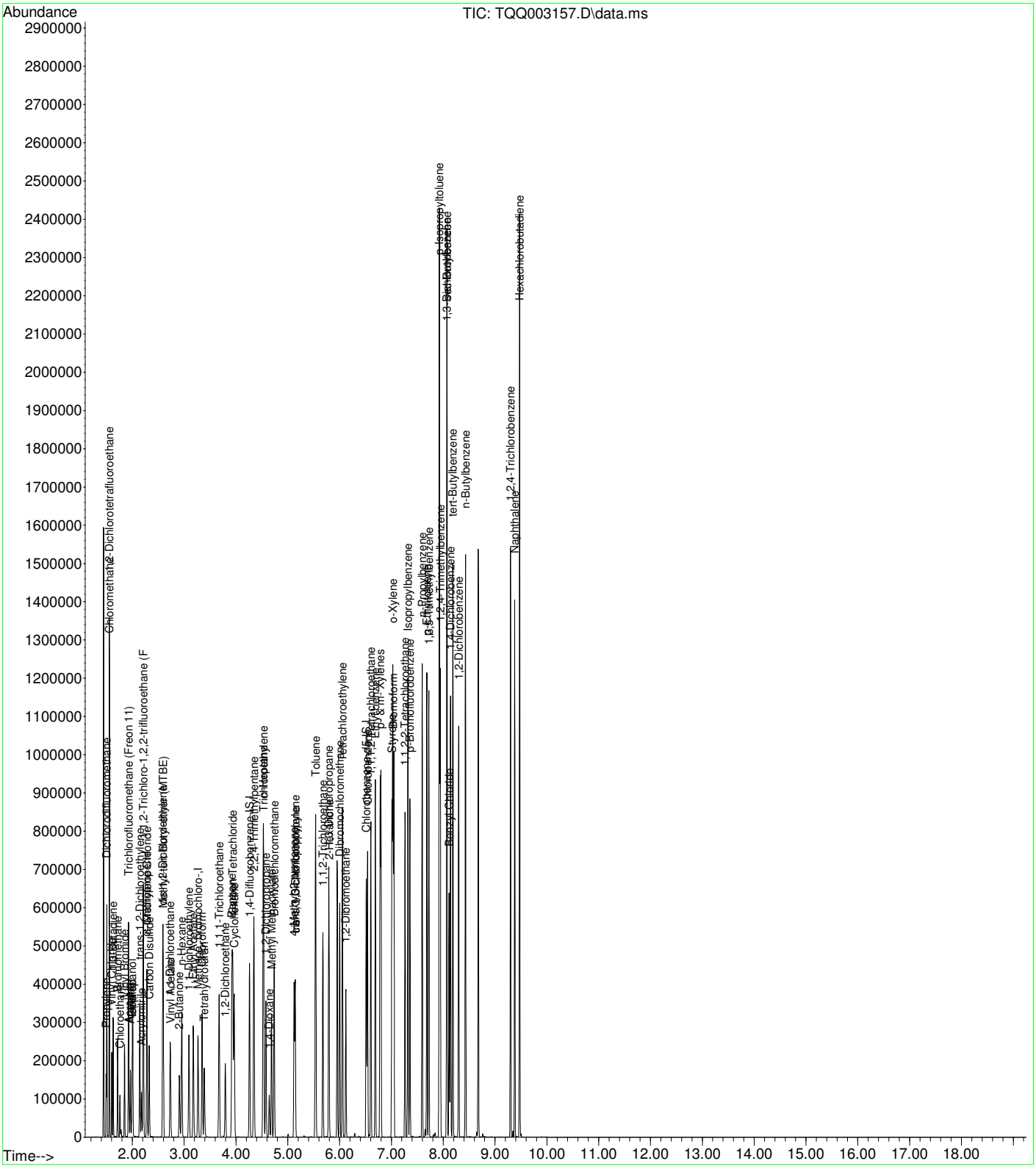
Quant Time: Jul 13 13:32:23 2026
Quant Method : C:\MassHunter\GCMS\1\methods\QA4 01JUNE2026(updated070726).m
Quant Title : TO-15
QLast Update : Tue Jul 07 14:14:35 2026
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
54) Tetrachloroethylene	6.055	166	125926	9.70	ppbv		96
56) Chlorobenzene	6.540	112	215312	9.31	ppbv		98
57) 1,1,1,2-Tetrachloroethane	6.603	131	115613	9.18	ppbv		94
58) Ethyl benzene	6.689	91	364353	9.33	ppbv		98
59) p- & m- Xylenes	6.783	91	304232	19.14	ppbv		97
60) Bromoform	7.033	173	167636	9.84	ppbv		99
61) Styrene	7.010	104	230761	9.65	ppbv		92
62) o-Xylene	7.026	91	330498	9.64	ppbv		91
63) 1,1,2,2-Tetrachloroethane	7.263	83	214509	9.56	ppbv		100
64) p-Bromofluorobenzene	7.357	95	148752	9.60	ppbv		93
65) Isopropylbenzene	7.319	105	417712	9.47	ppbv		98
66) n-Propylbenzene	7.594	91	511309	9.62	ppbv		98
67) p-Ethyltoluene	7.685	105	415141	9.53	ppbv		98
68) 1,3,5-Trimethylbenzene	7.723	105	344987	9.57	ppbv		99
69) tert-Butylbenzene	8.186	119	447831	9.92	ppbv	#	59
70) 1,2,4-Trimethylbenzene	7.943	105	356222	9.62	ppbv	#	27
71) 1,3-Dichlorobenzene	8.068	146	246743	10.23	ppbv		98
72) sec-Butylbenzene	8.072	105	541915	10.26	ppbv		99
73) 1,4-Dichlorobenzene	8.141	146	235999	9.62	ppbv		99
74) Benzyl Chloride	8.114	91	238969	7.37	ppbv		98
75) p-Isopropyltoluene	7.923	119	352951	10.25	ppbv	#	59
76) 1,2-Dichlorobenzene	8.297	146	228329	9.46	ppbv		99
77) n-Butylbenzene	8.429	91	453985	9.96	ppbv		98
78) 1,2,4-Trichlorobenzene	9.298	180	213600	9.01	ppbv		97
79) Naphthalene	9.379	128	511450	8.47	ppbv		99
80) Hexachlorobutadiene	9.473	225	195832	10.49	ppbv		90

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

Data Path : C:\MassHunter\GCMS\1\data\2026\7-JULY\071326\
Data File : TQQ003157.D
Acq On : 13 Jul 2026 11:22 am
Operator : YR
Sample : BG60588-BS1
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 13 13:32:23 2026
Quant Method : C:\MassHunter\GCMS\1\methods\QA4 01JUNE2026(updated070726).m
Quant Title : TO-15
QLast Update : Tue Jul 07 14:14:35 2026
Response via : Initial Calibration



FORM IV **PREPARATION BATCH SUMMARY**

EPA TO-15

Laboratory: ALS Environmental - Stratford SDG: 26G0459

Client: Hydro Tech Environmental Project: 152 Graham Avenue Brooklyn, NY 240052

Batch: BG60574 Batch Matrix: Air Preparation: EPA TO15 PREP

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
IA-7 20260708	26G0459-01	TQQ003141.D	07/09/26 08:00	
IA-8 20260708	26G0459-02	TQQ003142.D	07/09/26 08:00	
IA-9 20260708	26G0459-03	TQQ003143.D	07/09/26 08:00	
IA-10 20260708	26G0459-04	TQQ003144.D	07/09/26 08:00	
OA-2 20260708	26G0459-05	TQQ003145.D	07/09/26 08:00	
Blank	BG60574-BLK1	TQQ003133.D	07/09/26 08:00	
LCS	BG60574-BS1	TQQ003131.D	07/09/26 08:00	

FORM IV **PREPARATION BATCH SUMMARY**

EPA TO-15

Laboratory: ALS Environmental - Stratford SDG: 26G0459

Client: Hydro Tech Environmental Project: 152 Graham Avenue Brooklyn, NY 240052

Batch: BG60588 Batch Matrix: Air Preparation: EPA TO15 PREP

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
IA-9 20260708	26G0459-03RE1	TQQ003166.D	07/13/26 08:00	From BG60574 by AM on 07/14/2026
Blank	BG60588-BLK1	TQQ003162.D	07/13/26 08:00	
LCS	BG60588-BS1	TQQ003157.D	07/13/26 08:00	

FORM I

METHOD BLANK DATA SHEET
EPA TO-15

Laboratory:	ALS Environmental - Stratford			SDG:	26G0459
Client:	Hydro Tech Environmental			Laboratory ID:	BG60574-BLK1
Project:	152 Graham Avenue Brooklyn, NY 240052			Calibration:	SF60002
Preparation:	EPA TO15 PREP	Prepared:	07/09/26 08:00	File ID:	TQQ003133.D
Instrument:	AIR 4	Analyzed:	07/10/26 15:02	Initial/Final:	400 mL / 400 mL
Batch:	BG60574	Sequence:	S6G1321	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	07/09/26 08:00	07/10/26 15:02	
71-55-6	1,1,1-Trichloroethane	ND		ug/m³	0.55	0.19	1	EPA TO-15	07/09/26 08:00	07/10/26 15:02	
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/m³	0.69	0.19	1	EPA TO-15	07/09/26 08:00	07/10/26 15:02	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/m³	0.77	0.28	1	EPA TO-15	07/09/26 08:00	07/10/26 15:02	
79-00-5	1,1,2-Trichloroethane	ND		ug/m³	0.55	0.19	1	EPA TO-15	07/09/26 08:00	07/10/26 15:02	
75-34-3	1,1-Dichloroethane	ND		ug/m³	0.40	0.16	1	EPA TO-15	07/09/26 08:00	07/10/26 15:02	
75-35-4	1,1-Dichloroethylene	ND		ug/m³	0.20	0.17	1	EPA TO-15	07/09/26 08:00	07/10/26 15:02	
120-82-1	1,2,4-Trichlorobenzene	ND		ug/m³	37	0.28	1	EPA TO-15	07/09/26 08:00	07/10/26 15:02	
95-63-6	1,2,4-Trimethylbenzene	ND		ug/m³	0.49	0.17	1	EPA TO-15	07/09/26 08:00	07/10/26 15:02	
106-93-4	1,2-Dibromoethane	ND		ug/m³	0.77	0.24	1	EPA TO-15	07/09/26 08:00	07/10/26 15:02	
95-50-1	1,2-Dichlorobenzene	ND		ug/m³	0.60	0.18	1	EPA TO-15	07/09/26 08:00	07/10/26 15:02	
107-06-2	1,2-Dichloroethane	ND		ug/m³	0.40	0.19	1	EPA TO-15	07/09/26 08:00	07/10/26 15:02	
78-87-5	1,2-Dichloropropane	ND		ug/m³	0.46	0.16	1	EPA TO-15	07/09/26 08:00	07/10/26 15:02	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		ug/m³	0.70	0.36	1	EPA TO-15	07/09/26 08:00	07/10/26 15:02	
108-67-8	1,3,5-Trimethylbenzene	ND		ug/m³	0.49	0.075	1	EPA TO-15	07/09/26 08:00	07/10/26 15:02	
106-99-0	1,3-Butadiene	ND		ug/m³	0.66	0.069	1	EPA TO-15	07/09/26 08:00	07/10/26 15:02	
541-73-1	1,3-Dichlorobenzene	ND		ug/m³	0.60	0.17	1	EPA TO-15	07/09/26 08:00	07/10/26 15:02	
142-28-9	1,3-Dichloropropane	ND		ug/m³	0.46	0.14	1	EPA TO-15	07/09/26 08:00	07/10/26 15:02	
106-46-7	1,4-Dichlorobenzene	ND		ug/m³	0.60	0.14	1	EPA TO-15	07/09/26 08:00	07/10/26 15:02	
123-91-1	1,4-Dioxane	ND		ug/m³	1.8	0.38	1	EPA TO-15	07/09/26 08:00	07/10/26 15:02	
540-84-1	2,2,4-Trimethylpentane	ND		ug/m³	0.23	0.23	1	EPA TO-15	07/09/26 08:00	07/10/26 15:02	
78-93-3	2-Butanone	ND		ug/m³	15	0.50	1	EPA TO-15	07/09/26 08:00	07/10/26 15:02	
591-78-6	2-Hexanone	ND		ug/m³	0.82	0.22	1	EPA TO-15	07/09/26 08:00	07/10/26 15:02	
107-05-1	3-Chloropropene	ND		ug/m³	1.6	0.13	1	EPA TO-15	07/09/26 08:00	07/10/26 15:02	
108-10-1	4-Methyl-2-pentanone	ND		ug/m³	0.41	0.18	1	EPA TO-15	07/09/26 08:00	07/10/26 15:02	
67-64-1	Acetone	ND		ug/m³	12	1.2	1	EPA TO-15	07/09/26 08:00	07/10/26 15:02	
107-13-1	Acrylonitrile	ND		ug/m³	11	2.1	1	EPA TO-15	07/09/26 08:00	07/10/26 15:02	
71-43-2	Benzene	ND		ug/m³	0.32	0.12	1	EPA TO-15	07/09/26 08:00	07/10/26 15:02	
100-44-7	Benzyl chloride	ND		ug/m³	13	0.16	1	EPA TO-15	07/09/26 08:00	07/10/26 15:02	
75-27-4	Bromodichloromethane	ND		ug/m³	0.67	0.20	1	EPA TO-15	07/09/26 08:00	07/10/26 15:02	
75-25-2	Bromoform	ND		ug/m³	1.0	0.44	1	EPA TO-15	07/09/26 08:00	07/10/26 15:02	
74-83-9	Bromomethane	ND		ug/m³	0.39	0.17	1	EPA TO-15	07/09/26 08:00	07/10/26 15:02	
75-15-0	Carbon disulfide	ND		ug/m³	0.31	0.080	1	EPA TO-15	07/09/26 08:00	07/10/26 15:02	
56-23-5	Carbon tetrachloride	ND		ug/m³	0.19	0.19	1	EPA TO-15	07/09/26 08:00	07/10/26 15:02	
108-90-7	Chlorobenzene	ND		ug/m³	0.46	0.18	1	EPA TO-15	07/09/26 08:00	07/10/26 15:02	
75-00-3	Chloroethane	ND		ug/m³	0.26	0.15	1	EPA TO-15	07/09/26 08:00	07/10/26 15:02	
67-66-3	Chloroform	ND		ug/m³	0.49	0.14	1	EPA TO-15	07/09/26 08:00	07/10/26 15:02	
74-87-3	Chloromethane	ND		ug/m³	0.21	0.15	1	EPA TO-15	07/09/26 08:00	07/10/26 15:02	
156-59-2	cis-1,2-Dichloroethylene	ND		ug/m³	0.20	0.10	1	EPA TO-15	07/09/26 08:00	07/10/26 15:02	
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/m³	0.45	0.18	1	EPA TO-15	07/09/26 08:00	07/10/26 15:02	
110-82-7	Cyclohexane	ND		ug/m³	0.34	0.24	1	EPA TO-15	07/09/26 08:00	07/10/26 15:02	
124-48-1	Dibromochloromethane	ND		ug/m³	0.85	0.35	1	EPA TO-15	07/09/26 08:00	07/10/26 15:02	
75-71-8	Dichlorodifluoromethane	ND		ug/m³	0.49	0.28	1	EPA TO-15	07/09/26 08:00	07/10/26 15:02	

FORM I

METHOD BLANK DATA SHEET
EPA TO-15

Laboratory:	ALS Environmental - Stratford			SDG:	26G0459
Client:	Hydro Tech Environmental			Laboratory ID:	BG60574-BLK1
Project:	152 Graham Avenue Brooklyn, NY 240052			Calibration:	SF60002
Preparation:	EPA TO15 PREP	Prepared:	07/09/26 08:00	File ID:	TQQ003133.D
Instrument:	AIR 4	Analyzed:	07/10/26 15:02	Initial/Final:	400 mL / 400 mL
Batch:	BG60574	Sequence:	S6G1321	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
141-78-6	Ethyl acetate	ND		ug/m³	18	0.22	1	EPA TO-15	07/09/26 08:00	07/10/26 15:02	
100-41-4	Ethyl Benzene	ND		ug/m³	0.43	0.15	1	EPA TO-15	07/09/26 08:00	07/10/26 15:02	
87-68-3	Hexachlorobutadiene	ND		ug/m³	1.1	0.41	1	EPA TO-15	07/09/26 08:00	07/10/26 15:02	
67-63-0	Isopropanol	0.37		ug/m³	1.5	0.059	1	EPA TO-15	07/09/26 08:00	07/10/26 15:02	
80-62-6	Methyl Methacrylate	ND		ug/m³	0.41	0.25	1	EPA TO-15	07/09/26 08:00	07/10/26 15:02	
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/m³	0.36	0.11	1	EPA TO-15	07/09/26 08:00	07/10/26 15:02	
75-09-2	Methylene chloride	ND		ug/m³	2.1	0.12	1	EPA TO-15	07/09/26 08:00	07/10/26 15:02	
91-20-3	Naphthalene	ND		ug/m³	5.2	0.36	1	EPA TO-15	07/09/26 08:00	07/10/26 15:02	
142-82-5	n-Heptane	ND		ug/m³	0.41	0.16	1	EPA TO-15	07/09/26 08:00	07/10/26 15:02	
110-54-3	n-Hexane	ND		ug/m³	0.35	0.11	1	EPA TO-15	07/09/26 08:00	07/10/26 15:02	
95-47-6	o-Xylene	ND		ug/m³	0.43	0.15	1	EPA TO-15	07/09/26 08:00	07/10/26 15:02	
179601-23-1	p- & m- Xylenes	ND		ug/m³	0.87	0.22	1	EPA TO-15	07/09/26 08:00	07/10/26 15:02	
622-96-8	p-Ethyltoluene	ND		ug/m³	0.49	0.17	1	EPA TO-15	07/09/26 08:00	07/10/26 15:02	
115-07-1	Propylene	ND		ug/m³	0.17	0.098	1	EPA TO-15	07/09/26 08:00	07/10/26 15:02	
100-42-5	Styrene	ND		ug/m³	0.43	0.13	1	EPA TO-15	07/09/26 08:00	07/10/26 15:02	
127-18-4	Tetrachloroethylene	ND		ug/m³	0.68	0.16	1	EPA TO-15	07/09/26 08:00	07/10/26 15:02	
109-99-9	Tetrahydrofuran	ND		ug/m³	0.59	0.099	1	EPA TO-15	07/09/26 08:00	07/10/26 15:02	
108-88-3	Toluene	ND		ug/m³	0.38	0.15	1	EPA TO-15	07/09/26 08:00	07/10/26 15:02	
156-60-5	trans-1,2-Dichloroethylene	ND		ug/m³	0.40	0.095	1	EPA TO-15	07/09/26 08:00	07/10/26 15:02	
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/m³	0.45	0.18	1	EPA TO-15	07/09/26 08:00	07/10/26 15:02	
79-01-6	Trichloroethylene	ND		ug/m³	0.16	0.16	1	EPA TO-15	07/09/26 08:00	07/10/26 15:02	
75-69-4	Trichlorofluoromethane (Freon 11)	ND		ug/m³	0.56	0.20	1	EPA TO-15	07/09/26 08:00	07/10/26 15:02	
108-05-4	Vinyl acetate	ND		ug/m³	0.35	0.18	1	EPA TO-15	07/09/26 08:00	07/10/26 15:02	
593-60-2	Vinyl bromide	ND		ug/m³	0.44	0.15	1	EPA TO-15	07/09/26 08:00	07/10/26 15:02	
75-01-4	Vinyl Chloride	ND		ug/m³	0.13	0.10	1	EPA TO-15	07/09/26 08:00	07/10/26 15:02	

Quantitation Report (QT Reviewed)

Data Path : C:\MassHunter\GCMS\1\data\2026\7-JULY\071026\
Data File : TQQ003133.D
Acq On : 10 Jul 2026 03:02 pm
Operator : YR
Sample : BG60574-BLK1
Misc :
ALS Vial : 1 Sample Multiplier: 1

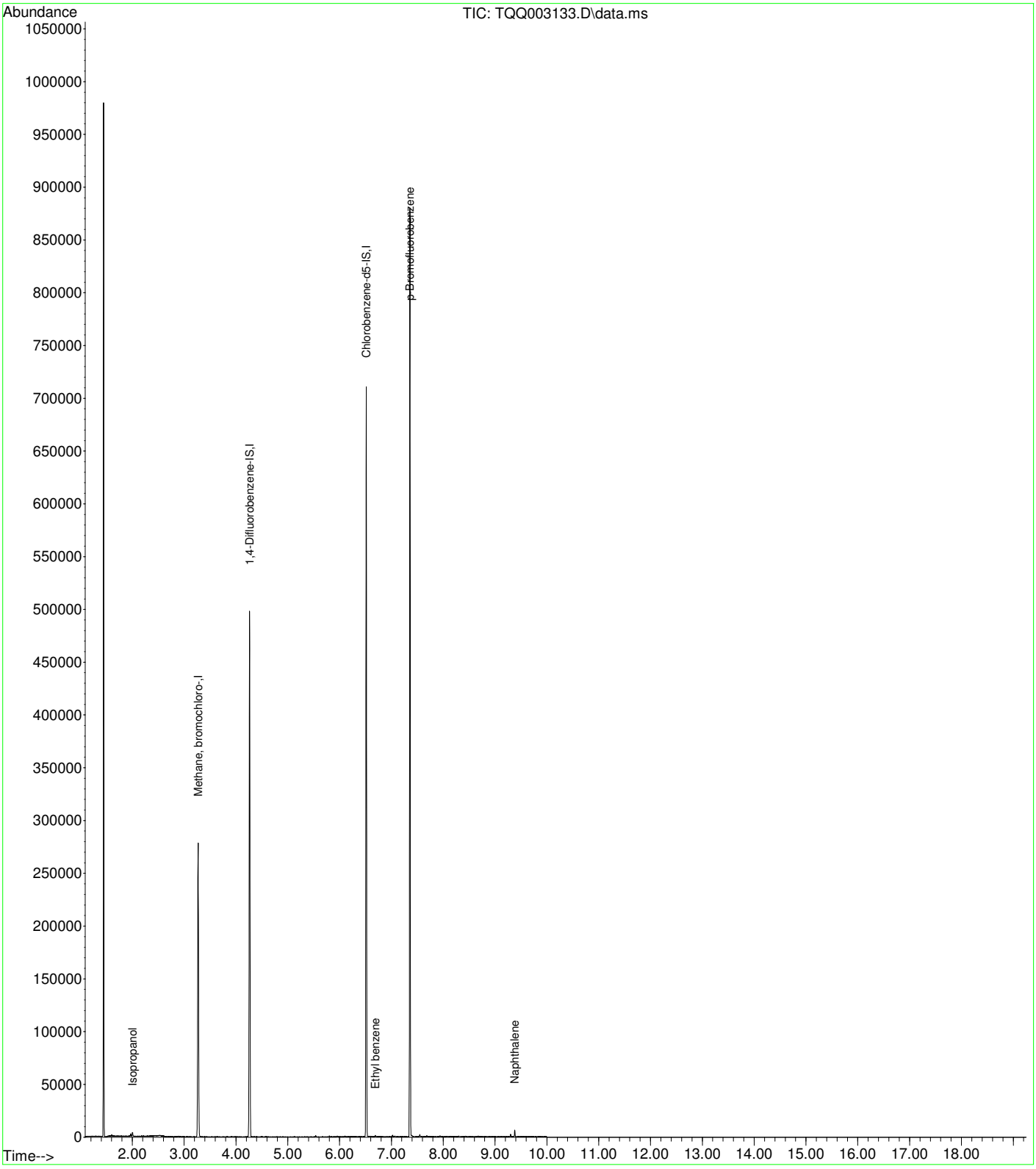
Quant Time: Jul 10 15:25:54 2026
Quant Method : C:\MassHunter\GCMS\1\methods\QA4 01JUNE2026(updated070726).m
Quant Title : TO-15
QLast Update : Tue Jul 07 14:14:35 2026
Response via : Initial Calibration

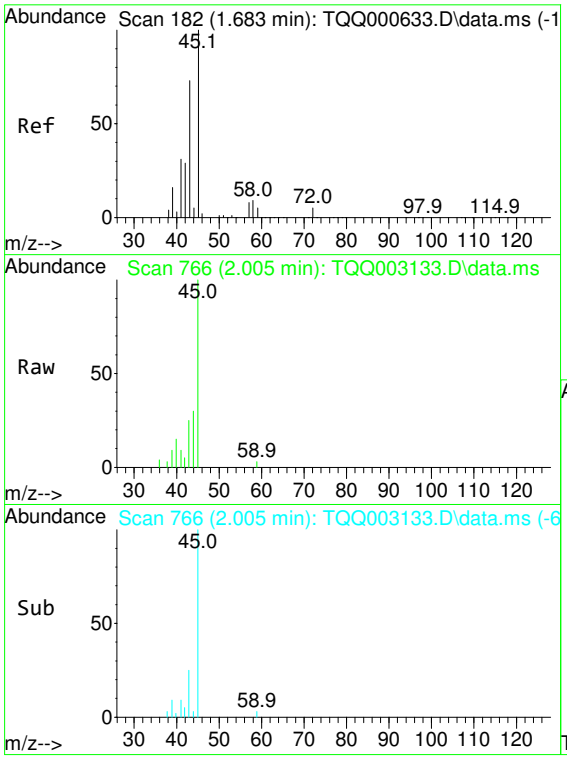
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Methane, bromochloro-	3.270	130	62439	10.00	ppbv	# 0.02
38) 1,4-Difluorobenzene-IS	4.263	114	235256	10.00	ppbv	0.01
55) Chlorobenzene-d5-IS	6.517	117	213777	10.00	ppbv	0.00
Target Compounds						Qvalue
15) Isopropanol	2.005	45	1888	0.15	ppbv	# 25
58) Ethyl benzene	6.689	91	563	0.01	ppbv	# 53
64) p-Bromofluorobenzene	7.357	95	154725	9.39	ppbv	94
79) Naphthalene	9.377	128	2483	0.04	ppbv	# 78

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

Data Path : C:\MassHunter\GCMS\1\data\2026\7-JULY\071026\
Data File : TQQ003133.D
Acq On : 10 Jul 2026 03:02 pm
Operator : YR
Sample : BG60574-BLK1
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 10 15:25:54 2026
Quant Method : C:\MassHunter\GCMS\1\methods\QA4 01JUNE2026(updated070726).m
Quant Title : TO-15
QLast Update : Tue Jul 07 14:14:35 2026
Response via : Initial Calibration

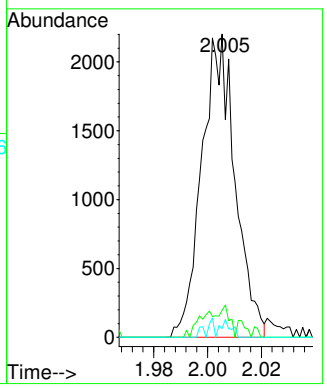


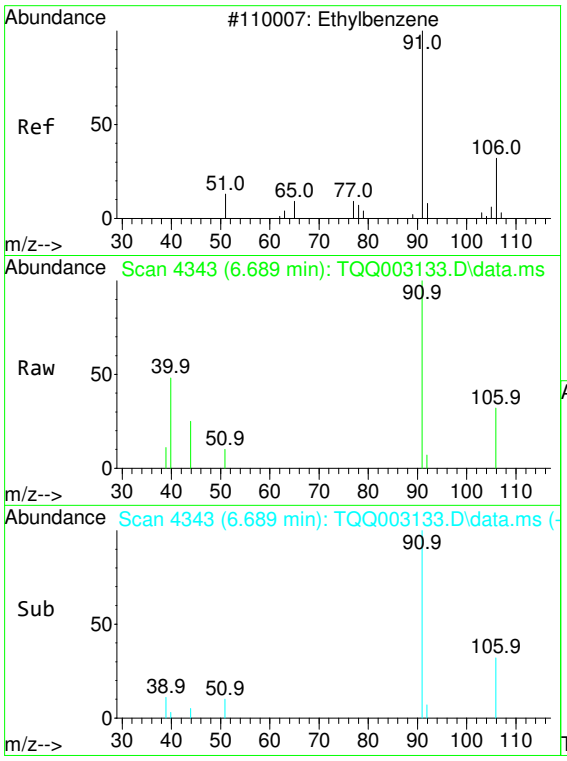


#15
Isopropanol
Concen: 0.15 ppbv
RT: 2.005 min Scan# 766
Delta R.T. 0.019 min
Lab File: TQQ003133.D
Acq: 10 Jul 2026 03:02 pm

Tgt Ion: 45 Resp: 1888

Ion	Ratio	Lower	Upper
45	100		
41	0.0	21.0	98.8#
59	0.0	0.0	8.8

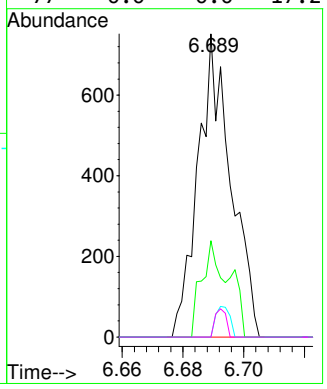


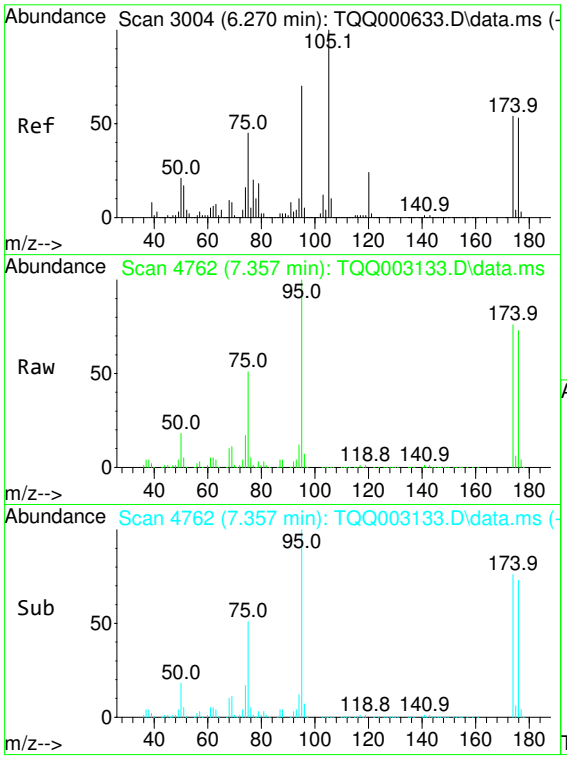


#58
Ethyl benzene
Concen: 0.01 ppbv
RT: 6.689 min Scan# 4343
Delta R.T. 0.003 min
Lab File: TQQ003133.D
Acq: 10 Jul 2026 03:02 pm

Tgt Ion: 91 Resp: 563

Ion	Ratio	Lower	Upper
91	100		
106	0.0	21.5	44.6#
65	0.0	0.0	17.2
77	0.0	0.0	17.2

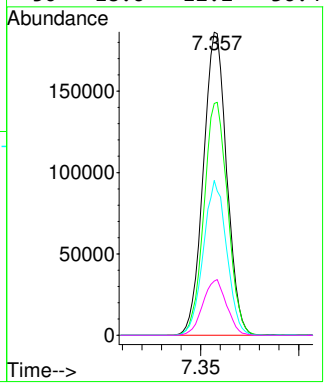


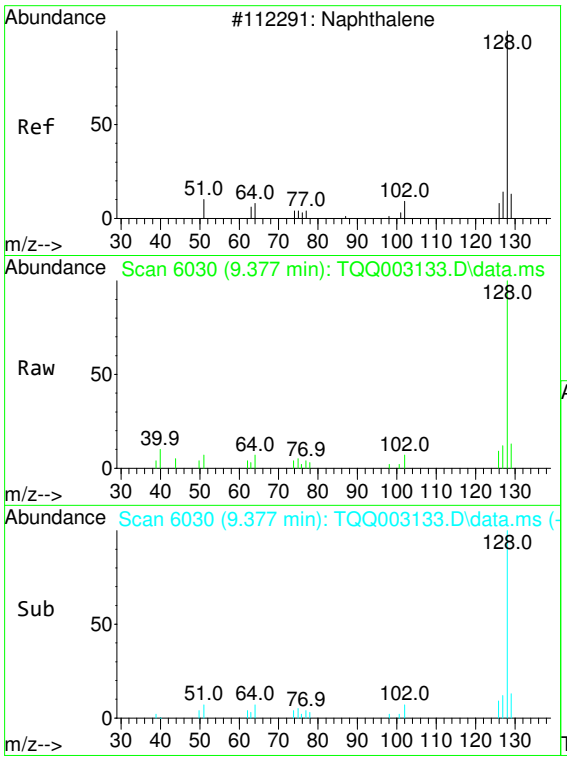


#64
p-Bromofluorobenzene
Concen: 9.39 ppbv
RT: 7.357 min Scan# 4762
Delta R.T. 0.002 min
Lab File: TQQ003133.D
Acq: 10 Jul 2026 03:02 pm

Tgt Ion: 95 Resp: 154725

Ion	Ratio	Lower	Upper
95	100		
174	77.9	58.4	87.6
75	50.7	38.6	58.0
50	18.6	12.2	36.4

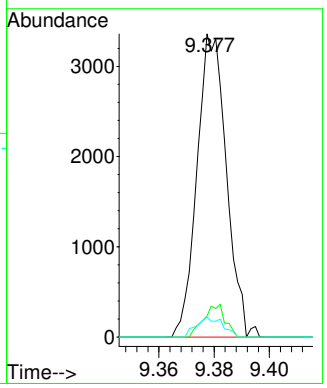




#79
Naphthalene
Concen: 0.04 ppbv
RT: 9.377 min Scan# 6030
Delta R.T. -0.002 min
Lab File: TQQ003133.D
Acq: 10 Jul 2026 03:02 pm

Tgt Ion:128 Resp: 2483

Ion	Ratio	Lower	Upper
128	100		
102	0.0	0.0	16.8
51	0.0	0.0	14.4



FORM I

METHOD BLANK DATA SHEET
EPA TO-15

Laboratory:	ALS Environmental - Stratford			SDG:	26G0459
Client:	Hydro Tech Environmental			Laboratory ID:	BG60588-BLK1
Project:	152 Graham Avenue Brooklyn, NY 240052			Calibration:	SF60002
Preparation:	EPA TO15 PREP	Prepared:	07/13/26 08:00	File ID:	TQQ003162.D
Instrument:	AIR 4	Analyzed:	07/13/26 14:00	Initial/Final:	400 mL / 400 mL
Batch:	BG60588	Sequence:	S6G1401	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	07/13/26 08:00	07/13/26 14:00	
71-55-6	1,1,1-Trichloroethane	ND		ug/m³	0.55	0.19	1	EPA TO-15	07/13/26 08:00	07/13/26 14:00	
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/m³	0.69	0.19	1	EPA TO-15	07/13/26 08:00	07/13/26 14:00	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/m³	0.77	0.28	1	EPA TO-15	07/13/26 08:00	07/13/26 14:00	
79-00-5	1,1,2-Trichloroethane	ND		ug/m³	0.55	0.19	1	EPA TO-15	07/13/26 08:00	07/13/26 14:00	
75-34-3	1,1-Dichloroethane	ND		ug/m³	0.40	0.16	1	EPA TO-15	07/13/26 08:00	07/13/26 14:00	
75-35-4	1,1-Dichloroethylene	ND		ug/m³	0.20	0.17	1	EPA TO-15	07/13/26 08:00	07/13/26 14:00	
120-82-1	1,2,4-Trichlorobenzene	ND		ug/m³	37	0.28	1	EPA TO-15	07/13/26 08:00	07/13/26 14:00	
95-63-6	1,2,4-Trimethylbenzene	ND		ug/m³	0.49	0.17	1	EPA TO-15	07/13/26 08:00	07/13/26 14:00	
106-93-4	1,2-Dibromoethane	ND		ug/m³	0.77	0.24	1	EPA TO-15	07/13/26 08:00	07/13/26 14:00	
95-50-1	1,2-Dichlorobenzene	ND		ug/m³	0.60	0.18	1	EPA TO-15	07/13/26 08:00	07/13/26 14:00	
107-06-2	1,2-Dichloroethane	ND		ug/m³	0.40	0.19	1	EPA TO-15	07/13/26 08:00	07/13/26 14:00	
78-87-5	1,2-Dichloropropane	ND		ug/m³	0.46	0.16	1	EPA TO-15	07/13/26 08:00	07/13/26 14:00	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		ug/m³	0.70	0.36	1	EPA TO-15	07/13/26 08:00	07/13/26 14:00	
108-67-8	1,3,5-Trimethylbenzene	ND		ug/m³	0.49	0.075	1	EPA TO-15	07/13/26 08:00	07/13/26 14:00	
106-99-0	1,3-Butadiene	ND		ug/m³	0.66	0.069	1	EPA TO-15	07/13/26 08:00	07/13/26 14:00	
541-73-1	1,3-Dichlorobenzene	ND		ug/m³	0.60	0.17	1	EPA TO-15	07/13/26 08:00	07/13/26 14:00	
142-28-9	1,3-Dichloropropane	ND		ug/m³	0.46	0.14	1	EPA TO-15	07/13/26 08:00	07/13/26 14:00	
106-46-7	1,4-Dichlorobenzene	ND		ug/m³	0.60	0.14	1	EPA TO-15	07/13/26 08:00	07/13/26 14:00	
123-91-1	1,4-Dioxane	ND		ug/m³	1.8	0.38	1	EPA TO-15	07/13/26 08:00	07/13/26 14:00	
540-84-1	2,2,4-Trimethylpentane	ND		ug/m³	0.23	0.23	1	EPA TO-15	07/13/26 08:00	07/13/26 14:00	
78-93-3	2-Butanone	ND		ug/m³	15	0.50	1	EPA TO-15	07/13/26 08:00	07/13/26 14:00	
591-78-6	2-Hexanone	ND		ug/m³	0.82	0.22	1	EPA TO-15	07/13/26 08:00	07/13/26 14:00	
107-05-1	3-Chloropropene	ND		ug/m³	1.6	0.13	1	EPA TO-15	07/13/26 08:00	07/13/26 14:00	
108-10-1	4-Methyl-2-pentanone	ND		ug/m³	0.41	0.18	1	EPA TO-15	07/13/26 08:00	07/13/26 14:00	
67-64-1	Acetone	ND		ug/m³	12	1.2	1	EPA TO-15	07/13/26 08:00	07/13/26 14:00	
107-13-1	Acrylonitrile	ND		ug/m³	11	2.1	1	EPA TO-15	07/13/26 08:00	07/13/26 14:00	
71-43-2	Benzene	ND		ug/m³	0.32	0.12	1	EPA TO-15	07/13/26 08:00	07/13/26 14:00	
100-44-7	Benzyl chloride	ND		ug/m³	13	0.16	1	EPA TO-15	07/13/26 08:00	07/13/26 14:00	
75-27-4	Bromodichloromethane	ND		ug/m³	0.67	0.20	1	EPA TO-15	07/13/26 08:00	07/13/26 14:00	
75-25-2	Bromoform	ND		ug/m³	1.0	0.44	1	EPA TO-15	07/13/26 08:00	07/13/26 14:00	
74-83-9	Bromomethane	ND		ug/m³	0.39	0.17	1	EPA TO-15	07/13/26 08:00	07/13/26 14:00	
75-15-0	Carbon disulfide	ND		ug/m³	0.31	0.080	1	EPA TO-15	07/13/26 08:00	07/13/26 14:00	
56-23-5	Carbon tetrachloride	ND		ug/m³	0.19	0.19	1	EPA TO-15	07/13/26 08:00	07/13/26 14:00	
108-90-7	Chlorobenzene	ND		ug/m³	0.46	0.18	1	EPA TO-15	07/13/26 08:00	07/13/26 14:00	
75-00-3	Chloroethane	ND		ug/m³	0.26	0.15	1	EPA TO-15	07/13/26 08:00	07/13/26 14:00	
67-66-3	Chloroform	ND		ug/m³	0.49	0.14	1	EPA TO-15	07/13/26 08:00	07/13/26 14:00	
74-87-3	Chloromethane	ND		ug/m³	0.21	0.15	1	EPA TO-15	07/13/26 08:00	07/13/26 14:00	
156-59-2	cis-1,2-Dichloroethylene	ND		ug/m³	0.20	0.10	1	EPA TO-15	07/13/26 08:00	07/13/26 14:00	
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/m³	0.45	0.18	1	EPA TO-15	07/13/26 08:00	07/13/26 14:00	
110-82-7	Cyclohexane	ND		ug/m³	0.34	0.24	1	EPA TO-15	07/13/26 08:00	07/13/26 14:00	
124-48-1	Dibromochloromethane	ND		ug/m³	0.85	0.35	1	EPA TO-15	07/13/26 08:00	07/13/26 14:00	
75-71-8	Dichlorodifluoromethane	ND		ug/m³	0.49	0.28	1	EPA TO-15	07/13/26 08:00	07/13/26 14:00	

FORM I

METHOD BLANK DATA SHEET
EPA TO-15

Laboratory:	ALS Environmental - Stratford			SDG:	26G0459
Client:	Hydro Tech Environmental			Laboratory ID:	BG60588-BLK1
Project:	152 Graham Avenue Brooklyn, NY 240052			Calibration:	SF60002
Preparation:	EPA TO15 PREP	Prepared:	07/13/26 08:00	File ID:	TQQ003162.D
Instrument:	AIR 4	Analyzed:	07/13/26 14:00	Initial/Final:	400 mL / 400 mL
Batch:	BG60588	Sequence:	S6G1401	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
141-78-6	Ethyl acetate	ND		ug/m³	18	0.22	1	EPA TO-15	07/13/26 08:00	07/13/26 14:00	
100-41-4	Ethyl Benzene	ND		ug/m³	0.43	0.15	1	EPA TO-15	07/13/26 08:00	07/13/26 14:00	
87-68-3	Hexachlorobutadiene	ND		ug/m³	1.1	0.41	1	EPA TO-15	07/13/26 08:00	07/13/26 14:00	
67-63-0	Isopropanol	0.61		ug/m³	1.5	0.059	1	EPA TO-15	07/13/26 08:00	07/13/26 14:00	
80-62-6	Methyl Methacrylate	ND		ug/m³	0.41	0.25	1	EPA TO-15	07/13/26 08:00	07/13/26 14:00	
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/m³	0.36	0.11	1	EPA TO-15	07/13/26 08:00	07/13/26 14:00	
75-09-2	Methylene chloride	ND		ug/m³	2.1	0.12	1	EPA TO-15	07/13/26 08:00	07/13/26 14:00	
91-20-3	Naphthalene	ND		ug/m³	5.2	0.36	1	EPA TO-15	07/13/26 08:00	07/13/26 14:00	
142-82-5	n-Heptane	ND		ug/m³	0.41	0.16	1	EPA TO-15	07/13/26 08:00	07/13/26 14:00	
110-54-3	n-Hexane	ND		ug/m³	0.35	0.11	1	EPA TO-15	07/13/26 08:00	07/13/26 14:00	
95-47-6	o-Xylene	ND		ug/m³	0.43	0.15	1	EPA TO-15	07/13/26 08:00	07/13/26 14:00	
179601-23-1	p- & m- Xylenes	ND		ug/m³	0.87	0.22	1	EPA TO-15	07/13/26 08:00	07/13/26 14:00	
622-96-8	p-Ethyltoluene	ND		ug/m³	0.49	0.17	1	EPA TO-15	07/13/26 08:00	07/13/26 14:00	
115-07-1	Propylene	ND		ug/m³	0.17	0.098	1	EPA TO-15	07/13/26 08:00	07/13/26 14:00	
100-42-5	Styrene	ND		ug/m³	0.43	0.13	1	EPA TO-15	07/13/26 08:00	07/13/26 14:00	
127-18-4	Tetrachloroethylene	ND		ug/m³	0.68	0.16	1	EPA TO-15	07/13/26 08:00	07/13/26 14:00	
109-99-9	Tetrahydrofuran	ND		ug/m³	0.59	0.099	1	EPA TO-15	07/13/26 08:00	07/13/26 14:00	
108-88-3	Toluene	ND		ug/m³	0.38	0.15	1	EPA TO-15	07/13/26 08:00	07/13/26 14:00	
156-60-5	trans-1,2-Dichloroethylene	ND		ug/m³	0.40	0.095	1	EPA TO-15	07/13/26 08:00	07/13/26 14:00	
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/m³	0.45	0.18	1	EPA TO-15	07/13/26 08:00	07/13/26 14:00	
79-01-6	Trichloroethylene	ND		ug/m³	0.16	0.16	1	EPA TO-15	07/13/26 08:00	07/13/26 14:00	
75-69-4	Trichlorofluoromethane (Freon 11)	ND		ug/m³	0.56	0.20	1	EPA TO-15	07/13/26 08:00	07/13/26 14:00	
108-05-4	Vinyl acetate	ND		ug/m³	0.35	0.18	1	EPA TO-15	07/13/26 08:00	07/13/26 14:00	
593-60-2	Vinyl bromide	ND		ug/m³	0.44	0.15	1	EPA TO-15	07/13/26 08:00	07/13/26 14:00	
75-01-4	Vinyl Chloride	ND		ug/m³	0.13	0.10	1	EPA TO-15	07/13/26 08:00	07/13/26 14:00	

Quantitation Report (QT Reviewed)

Data Path : C:\MassHunter\GCMS\1\data\2026\7-JULY\071326\
Data File : TQQ003162.D
Acq On : 13 Jul 2026 02:00 pm
Operator : YR
Sample : BG60588-BLK1
Misc :
ALS Vial : 1 Sample Multiplier: 1

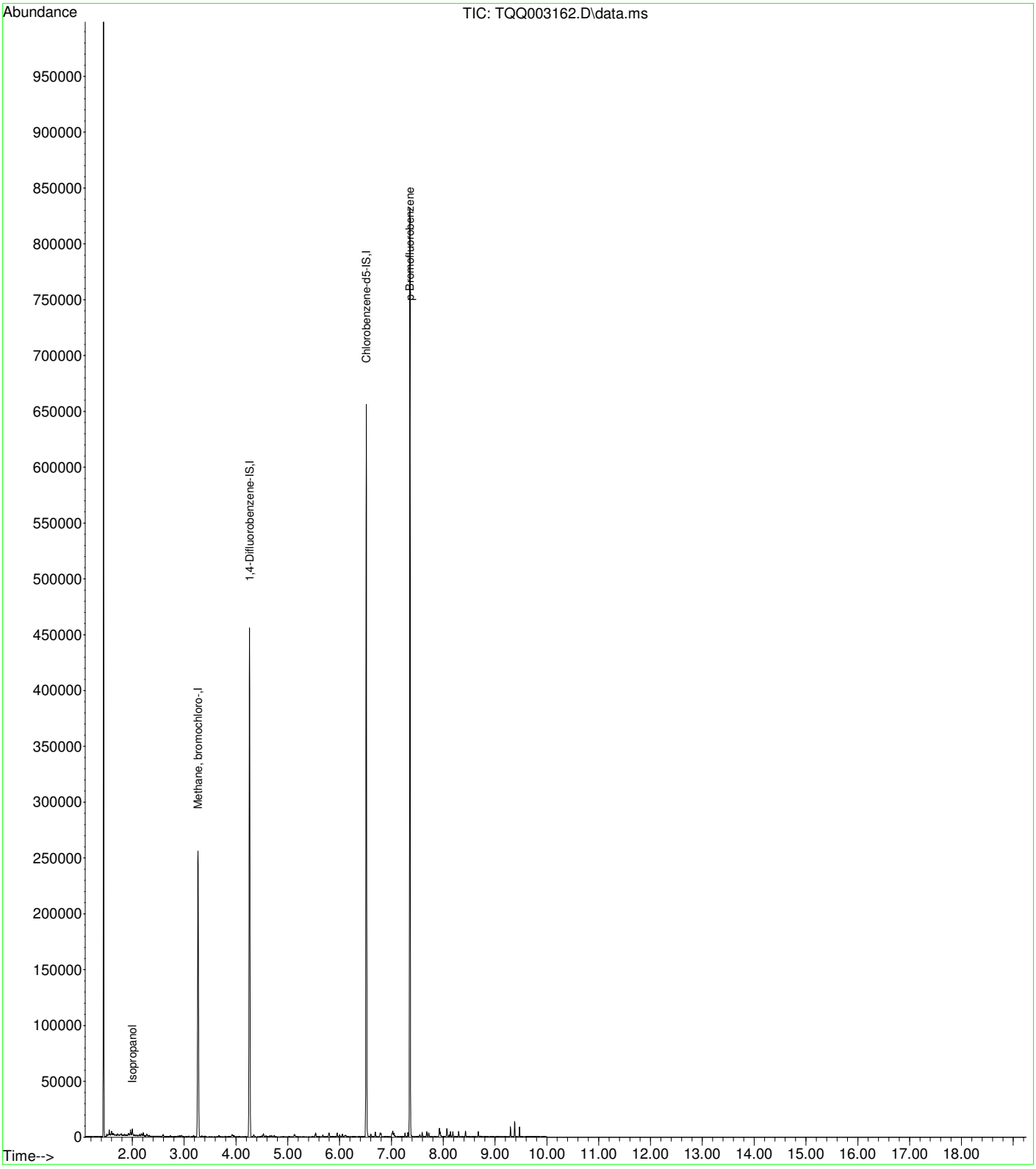
Quant Time: Jul 14 07:37:28 2026
Quant Method : C:\MassHunter\GCMS\1\methods\QA4 01JUNE2026(updated070726).m
Quant Title : TO-15
QLast Update : Tue Jul 07 14:14:35 2026
Response via : Initial Calibration

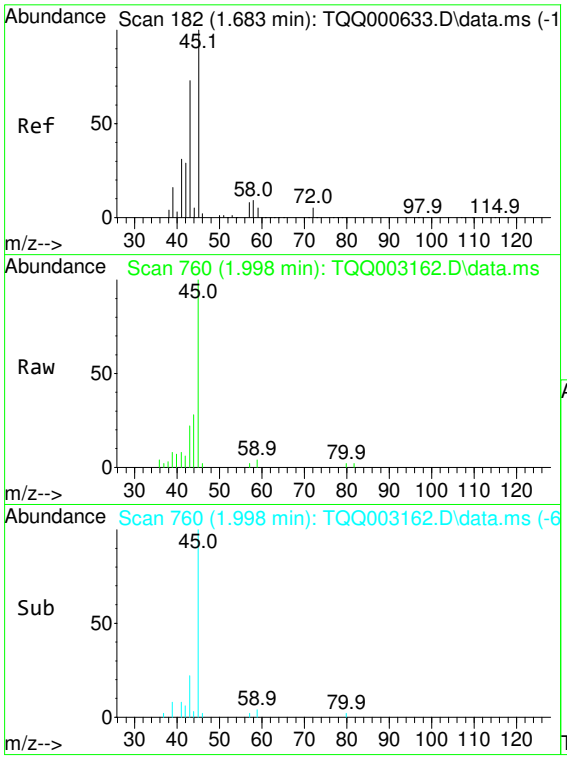
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Methane, bromochloro-	3.269	130	57227	10.00	ppbv	# 0.02
38) 1,4-Difluorobenzene-IS	4.261	114	218774	10.00	ppbv	0.01
55) Chlorobenzene-d5-IS	6.516	117	195173	10.00	ppbv	0.00
Target Compounds						Qvalue
15) Isopropanol	1.998	45	2927	0.25	ppbv	# 25
64) p-Bromofluorobenzene	7.358	95	143307	9.52	ppbv	94

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

Data Path : C:\MassHunter\GCMS\1\data\2026\7-JULY\071326\
Data File : TQQ003162.D
Acq On : 13 Jul 2026 02:00 pm
Operator : YR
Sample : BG60588-BLK1
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 14 07:37:28 2026
Quant Method : C:\MassHunter\GCMS\1\methods\QA4 01JUNE2026(updated070726).m
Quant Title : TO-15
QLast Update : Tue Jul 07 14:14:35 2026
Response via : Initial Calibration

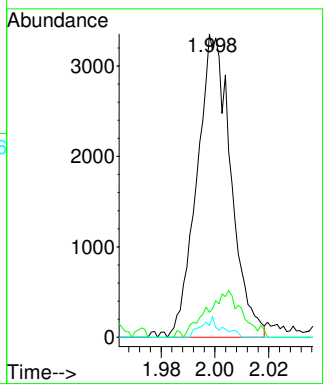


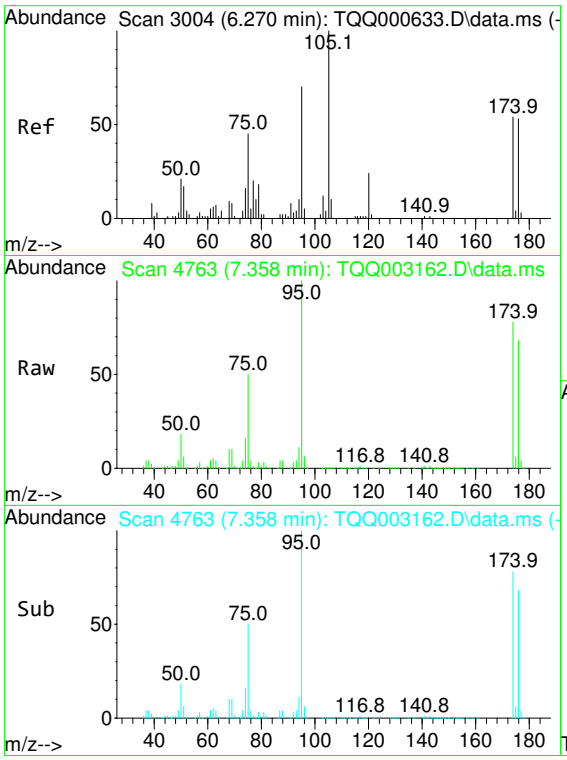


#15
Isopropanol
Concen: 0.25 ppbv
RT: 1.998 min Scan# 760
Delta R.T. 0.012 min
Lab File: TQQ003162.D
Acq: 13 Jul 2026 02:00 pm

Tgt Ion: 45 Resp: 2927

Ion	Ratio	Lower	Upper
45	100		
41	0.0	21.0	98.8#
59	0.0	0.0	8.8

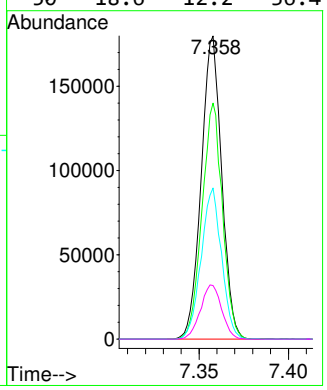




#64
p-Bromofluorobenzene
Concen: 9.52 ppbv
RT: 7.358 min Scan# 4763
Delta R.T. 0.003 min
Lab File: TQQ003162.D
Acq: 13 Jul 2026 02:00 pm

Tgt Ion: 95 Resp: 143307

Ion	Ratio	Lower	Upper
95	100		
174	77.9	58.4	87.6
75	49.8	38.6	58.0
50	18.6	12.2	36.4



FORM V MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

EPA TO-15

Laboratory:	ALS Environmental - Stratford	SDG:	26G0459
Client:	Hydro Tech Environmental	Project:	152 Graham Avenue Brooklyn, NY 240052
Lab File ID:	TQQ002410.D	Injection Date:	05/29/26
Instrument ID:	AIR 4	Injection Time:	22:00
Sequence:	S6F0126	Lab Sample ID:	S6F0126-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	8 - 40% of 95	18.5	PASS
75	30 - 66% of 95	49	PASS
95	Base peak, 100% relative abundance	100	PASS
96	5 - 9% of 95	6.46	PASS
173	Less than 2% of 174	0.195	PASS
174	50 - 120% of 95	73.5	PASS
175	4 - 9% of 174	7.42	PASS
176	93 - 101% of 174	98.1	PASS
177	5 - 9% of 176	6.48	PASS

FORM V MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

EPA TO-15

Laboratory:	ALS Environmental - Stratford	SDG:	26G0459
Client:	Hydro Tech Environmental	Project:	152 Graham Avenue Brooklyn, NY 240052
Lab File ID:	TQQ003128.D	Injection Date:	07/10/26
Instrument ID:	AIR 4	Injection Time:	11:50
Sequence:	S6G1321	Lab Sample ID:	S6G1321-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	8 - 40% of 95	17	PASS
75	30 - 66% of 95	50.5	PASS
95	Base peak, 100% relative abundance	100	PASS
96	5 - 9% of 95	6.68	PASS
173	Less than 2% of 174	0.258	PASS
174	50 - 120% of 95	80.3	PASS
175	4 - 9% of 174	7.3	PASS
176	93 - 101% of 174	97.5	PASS
177	5 - 9% of 176	6.72	PASS

FORM V MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

EPA TO-15

Laboratory:	ALS Environmental - Stratford	SDG:	26G0459
Client:	Hydro Tech Environmental	Project:	152 Graham Avenue Brooklyn, NY 240052
Lab File ID:	TQQ003155.D	Injection Date:	07/13/26
Instrument ID:	AIR 4	Injection Time:	10:08
Sequence:	S6G1401	Lab Sample ID:	S6G1401-TUN1

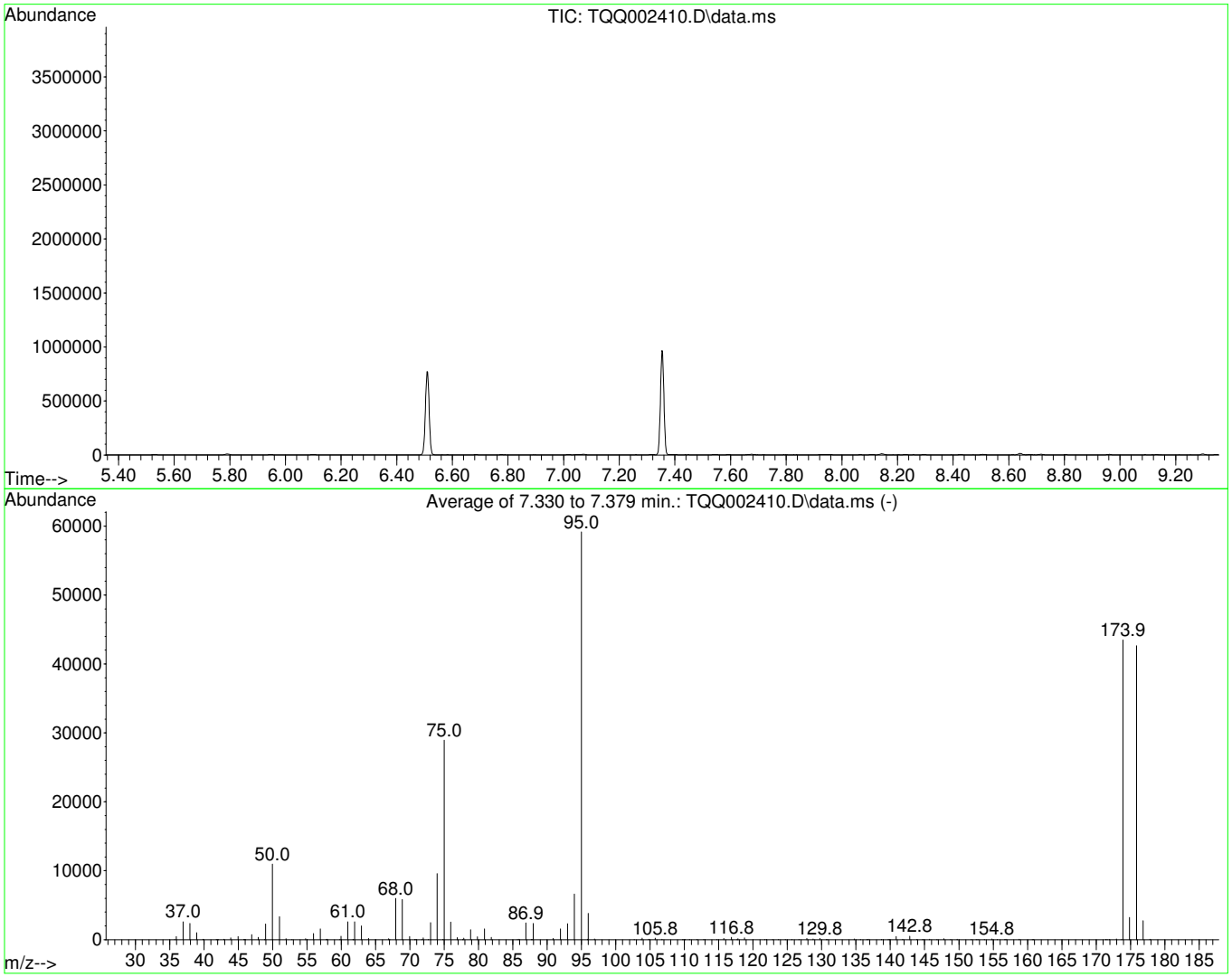
m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	8 - 40% of 95	18.8	PASS
75	30 - 66% of 95	49.6	PASS
95	Base peak, 100% relative abundance	100	PASS
96	5 - 9% of 95	6.64	PASS
173	Less than 2% of 174	0.606	PASS
174	50 - 120% of 95	78	PASS
175	4 - 9% of 174	7.17	PASS
176	93 - 101% of 174	97.4	PASS
177	5 - 9% of 176	6.3	PASS

CLPBFB

Data Path : C:\MassHunter\GCMS\1\data\2026\5-MAY\052926\
Data File : TQQ002410.D
Acq On : 29 May 2026 10:00 pm
Operator : YR
Sample : SEQ-TUN1
Misc :
ALS Vial : 1 Sample Multiplier: 1

Integration File: rteint.p

Method : C:\MassHunter\GCMS\1\methods\QA4 01JUNE2026(updated070726).m
Title : TO-15
Last Update : Tue Jul 07 14:14:35 2026



AutoFind: Averaged scan 4745 to 4776; Bkg corrected with scan 4744

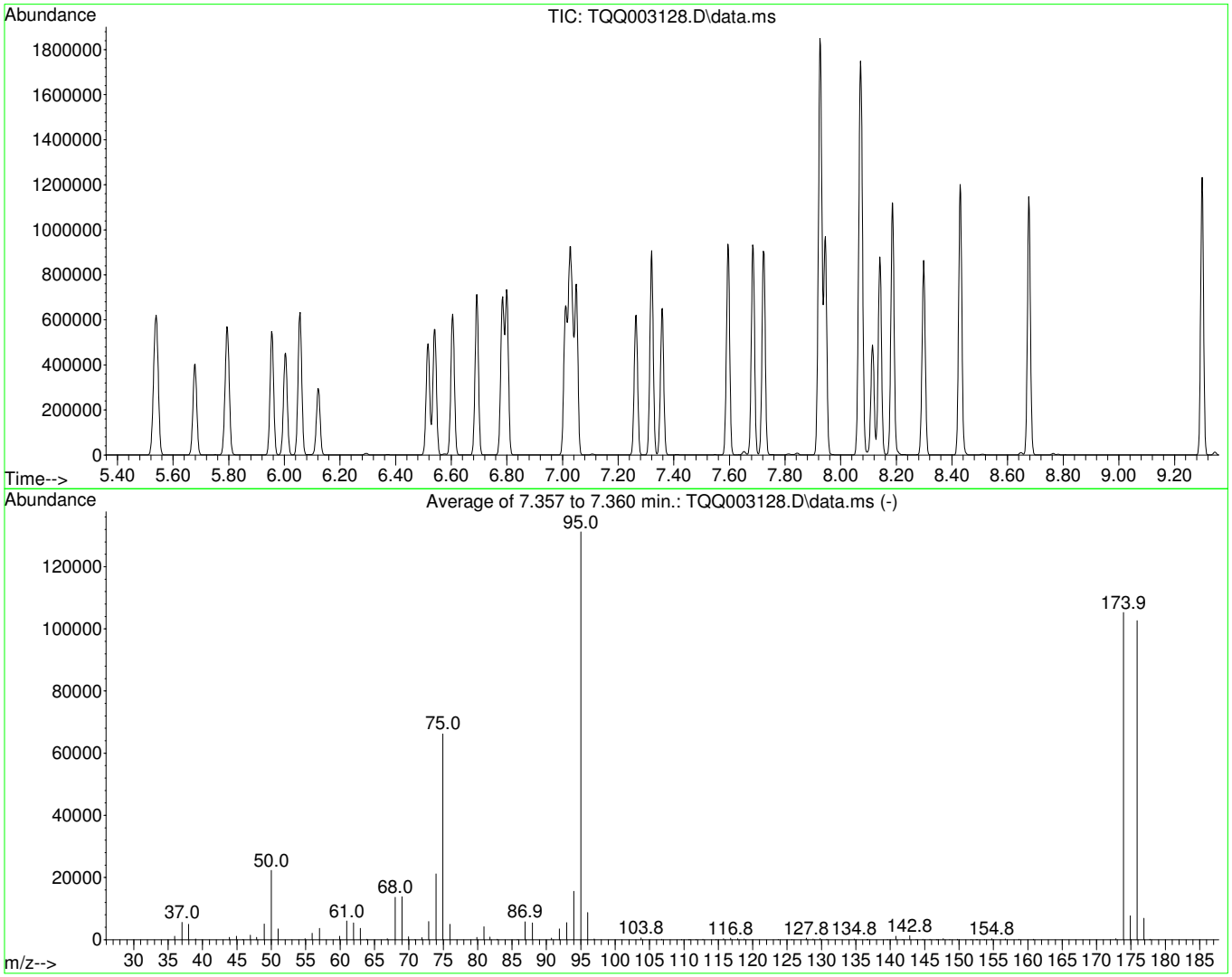
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	18.5	10951	PASS
75	95	30	60	49.0	28955	PASS
95	95	100	100	100.0	59148	PASS
96	95	5	9	6.5	3821	PASS
173	174	0.00	2	0.2	85	PASS
174	95	50	100	73.5	43487	PASS
175	174	5	9	7.4	3227	PASS
176	174	95	101	98.1	42668	PASS
177	176	5	9	6.5	2765	PASS

CLPBFB

Data Path : C:\MassHunter\GCMS\1\data\2026\7-JULY\071026\
Data File : TQQ003128.D
Acq On : 10 Jul 2026 11:50 am
Operator : YR
Sample : SEQ-TUN1
Misc :
ALS Vial : 1 Sample Multiplier: 1

Integration File: rteint.p

Method : C:\MassHunter\GCMS\1\methods\QA4 01JUNE2026(updated070726).m
Title : TO-15
Last Update : Tue Jul 07 14:14:35 2026



Spectrum Information: Average of 7.357 to 7.360 min.

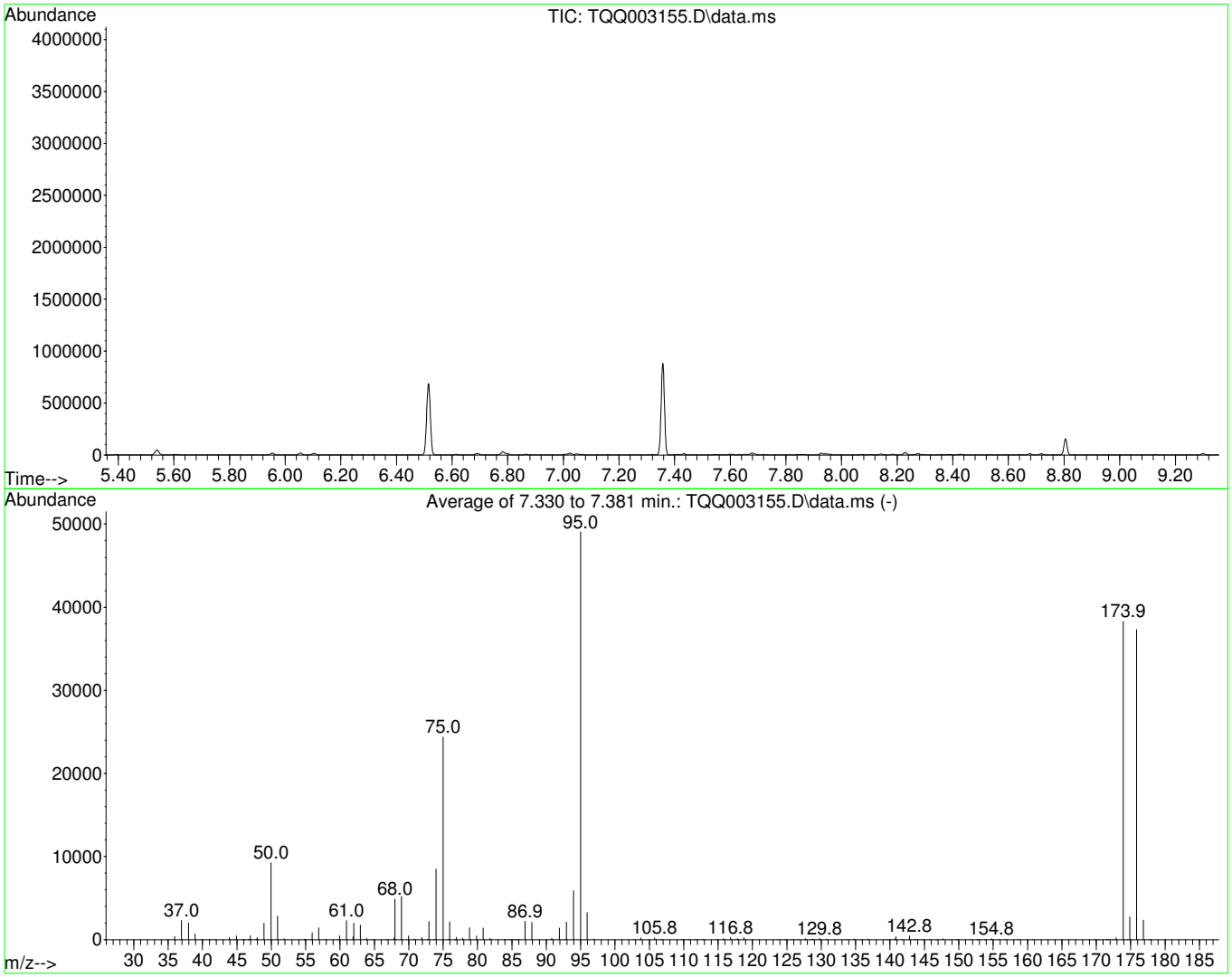
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	17.0	22316	PASS
75	95	30	60	50.5	66246	PASS
95	95	100	100	100.0	131179	PASS
96	95	5	9	6.7	8759	PASS
173	174	0.00	2	0.3	272	PASS
174	95	50	100	80.3	105280	PASS
175	174	5	9	7.3	7685	PASS
176	174	95	101	97.5	102621	PASS
177	176	5	9	6.7	6892	PASS

CLPBFB

Data Path : C:\MassHunter\GCMS\1\data\2026\7-JULY\071326\
Data File : TQQ003155.D
Acq On : 13 Jul 2026 10:08 am
Operator : YR
Sample : SEQ-TUN1
Misc :
ALS Vial : 1 Sample Multiplier: 1

Integration File: rteint.p

Method : C:\MassHunter\GCMS\1\methods\QA4 01JUNE2026(updated070726).m
Title : TO-15
Last Update : Tue Jul 07 14:14:35 2026



AutoFind: Averaged scan 4745 to 4777; Bkg corrected with scan 4744

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	18.8	9242	PASS
75	95	30	60	49.6	24347	PASS
95	95	100	100	100.0	49051	PASS
96	95	5	9	6.6	3257	PASS
173	174	0.00	2	0.6	232	PASS
174	95	50	100	78.0	38272	PASS
175	174	5	9	7.2	2746	PASS
176	174	95	101	97.4	37296	PASS
177	176	5	9	6.3	2349	PASS

FORM V

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA TO-15

Laboratory: ALS Environmental - Stratford
SDG: 26G0459
Client: Hydro Tech Environmental
Project: 152 Graham Avenue Brooklyn, NY 240052
Sequence: S6F0126
Instrument: AIR 4
Calibration: SF60002

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	S6F0126-TUN1	TQQ002410.D	05/29/26 22:00
Cal Standard	S6F0126-CAL1	TQQ002411.D	05/29/26 22:42
Cal Standard	S6F0126-CAL2	TQQ002413.D	05/30/26 00:06
Cal Standard	S6F0126-CAL3	TQQ002414.D	05/30/26 00:47
Cal Standard	S6F0126-CAL4	TQQ002415.D	05/30/26 01:28
Cal Standard	S6F0126-CAL5	TQQ002416.D	05/30/26 02:09
Cal Standard	S6F0126-CAL6	TQQ002417.D	05/30/26 02:50
Cal Standard	S6F0126-CAL7	TQQ002418.D	05/30/26 03:29
Cal Standard	S6F0126-CAL8	TQQ002419.D	05/30/26 04:09
Cal Standard	S6F0126-CAL9	TQQ002420.D	05/30/26 04:44
Cal Standard	S6F0126-CALA	TQQ002421.D	05/30/26 05:19
Secondary Cal Check	S6F0126-SCV1	TQQ002425.D	06/01/26 12:29

FORM V

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA TO-15

Laboratory: ALS Environmental - Stratford
SDG: 26G0459
Client: Hydro Tech Environmental
Project: 152 Graham Avenue Brooklyn, NY 240052
Sequence: S6G1321
Instrument: AIR 4
Calibration: SF60002

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	S6G1321-TUN1	TQQ003128.D	07/10/26 11:50
Calibration Check	S6G1321-CCV1	TQQ003130.D	07/10/26 13:03
LCS	BG60574-BS1	TQQ003131.D	07/10/26 13:39
Blank	BG60574-BLK1	TQQ003133.D	07/10/26 15:02
IA-7 20260708	26G0459-01	TQQ003141.D	07/10/26 20:33
IA-8 20260708	26G0459-02	TQQ003142.D	07/10/26 21:20
IA-9 20260708	26G0459-03	TQQ003143.D	07/10/26 22:07
IA-10 20260708	26G0459-04	TQQ003144.D	07/10/26 22:54
OA-2 20260708	26G0459-05	TQQ003145.D	07/10/26 23:41

FORM V

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA TO-15

Laboratory:	ALS Environmental - Stratford	SDG:	26G0459
Client:	Hydro Tech Environmental	Project:	152 Graham Avenue Brooklyn, NY 240052
Sequence:	S6G1401	Instrument:	AIR 4
		Calibration:	SF60002

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	S6G1401-TUN1	TQQ003155.D	07/13/26 10:08
Calibration Check	S6G1401-CCV1	TQQ003156.D	07/13/26 10:44
LCS	BG60588-BS1	TQQ003157.D	07/13/26 11:22
Blank	BG60588-BLK1	TQQ003162.D	07/13/26 14:00
IA-9 20260708	26G0459-03RE1	TQQ003166.D	07/13/26 16:43

FORM VIII INTERNAL STANDARD AREA AND RT SUMMARY
EPA TO-15

Laboratory: ALS Environmental - Stratford
Client: Hydro Tech Environmental
Sequence: S6F0126

SDG: 26G0459
Project: 152 Graham Avenue Brooklyn, NY 240052
Instrument: AIR 4
Calibration: SF60002

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Cal Standard (S6F0126-CAL1)			Lab File ID: TQQ002411.D			Analyzed: 05/29/26 22:42			
ISTD: Bromochloromethane	65800	3.252	66133	3.251	99	60 - 140	0.0010	+/-0.50	
ISTD: 1,4-Difluorobenzene	257158	4.247	257343	4.248	100	60 - 140	-0.0010	+/-0.50	
ISTD: d5-Chlorobenzene	226934	6.509	230065	6.511	99	60 - 140	-0.0020	+/-0.50	
Cal Standard (S6F0126-CAL2)			Lab File ID: TQQ002413.D			Analyzed: 05/30/26 00:06			
ISTD: Bromochloromethane	65966	3.252	66133	3.251	100	60 - 140	0.0010	+/-0.50	
ISTD: 1,4-Difluorobenzene	257370	4.249	257343	4.248	100	60 - 140	0.0010	+/-0.50	
ISTD: d5-Chlorobenzene	228352	6.509	230065	6.511	99	60 - 140	-0.0020	+/-0.50	
Cal Standard (S6F0126-CAL3)			Lab File ID: TQQ002414.D			Analyzed: 05/30/26 00:47			
ISTD: Bromochloromethane	66360	3.251	66133	3.251	100	60 - 140	0.0000	+/-0.50	
ISTD: 1,4-Difluorobenzene	260531	4.246	257343	4.248	101	60 - 140	-0.0020	+/-0.50	
ISTD: d5-Chlorobenzene	231867	6.511	230065	6.511	101	60 - 140	0.0000	+/-0.50	
Cal Standard (S6F0126-CAL4)			Lab File ID: TQQ002415.D			Analyzed: 05/30/26 01:28			
ISTD: Bromochloromethane	67056	3.25	66133	3.251	101	60 - 140	-0.0010	+/-0.50	
ISTD: 1,4-Difluorobenzene	263228	4.246	257343	4.248	102	60 - 140	-0.0020	+/-0.50	
ISTD: d5-Chlorobenzene	231327	6.509	230065	6.511	101	60 - 140	-0.0020	+/-0.50	
Cal Standard (S6F0126-CAL5)			Lab File ID: TQQ002416.D			Analyzed: 05/30/26 02:09			
ISTD: Bromochloromethane	66310	3.25	66133	3.251	100	60 - 140	-0.0010	+/-0.50	
ISTD: 1,4-Difluorobenzene	256509	4.246	257343	4.248	100	60 - 140	-0.0020	+/-0.50	
ISTD: d5-Chlorobenzene	230094	6.509	230065	6.511	100	60 - 140	-0.0020	+/-0.50	
Cal Standard (S6F0126-CAL6)			Lab File ID: TQQ002417.D			Analyzed: 05/30/26 02:50			
ISTD: Bromochloromethane	66617	3.255	66133	3.251	101	60 - 140	0.0040	+/-0.50	
ISTD: 1,4-Difluorobenzene	256895	4.248	257343	4.248	100	60 - 140	0.0000	+/-0.50	
ISTD: d5-Chlorobenzene	231207	6.511	230065	6.511	100	60 - 140	0.0000	+/-0.50	
Cal Standard (S6F0126-CAL7)			Lab File ID: TQQ002418.D			Analyzed: 05/30/26 03:29			
ISTD: Bromochloromethane	66133	3.251	66133	3.251	100	60 - 140	0.0000	+/-0.50	
ISTD: 1,4-Difluorobenzene	257343	4.248	257343	4.248	100	60 - 140	0.0000	+/-0.50	
ISTD: d5-Chlorobenzene	230065	6.511	230065	6.511	100	60 - 140	0.0000	+/-0.50	
Cal Standard (S6F0126-CAL8)			Lab File ID: TQQ002419.D			Analyzed: 05/30/26 04:09			
ISTD: Bromochloromethane	65331	3.256	66133	3.251	99	60 - 140	0.0050	+/-0.50	
ISTD: 1,4-Difluorobenzene	253735	4.251	257343	4.248	99	60 - 140	0.0030	+/-0.50	
ISTD: d5-Chlorobenzene	229032	6.511	230065	6.511	100	60 - 140	0.0000	+/-0.50	

FORM VIII INTERNAL STANDARD AREA AND RT SUMMARY
EPA TO-15

Laboratory: ALS Environmental - Stratford
SDG: 26G0459
Client: Hydro Tech Environmental
Project: 152 Graham Avenue Brooklyn, NY 240052
Sequence: S6F0126
Instrument: AIR 4
Calibration: SF60002

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Cal Standard (S6F0126-CAL9)			Lab File ID: TQQ002420.D			Analyzed: 05/30/26 04:44			
ISTD: Bromochloromethane	34583	3.232	66133	3.251	52	60 - 140	-0.0190	+/-0.50	*
ISTD: 1,4-Difluorobenzene	254962	4.233	257343	4.248	99	60 - 140	-0.0150	+/-0.50	
ISTD: d5-Chlorobenzene	228358	6.504	230065	6.511	99	60 - 140	-0.0070	+/-0.50	
Cal Standard (S6F0126-CALA)			Lab File ID: TQQ002421.D			Analyzed: 05/30/26 05:19			
ISTD: Bromochloromethane	65342	3.238	66133	3.251	99	60 - 140	-0.0130	+/-0.50	
ISTD: 1,4-Difluorobenzene	254132	4.233	257343	4.248	99	60 - 140	-0.0150	+/-0.50	
ISTD: d5-Chlorobenzene	229816	6.506	230065	6.511	100	60 - 140	-0.0050	+/-0.50	
Secondary Cal Check (S6F0126-SCV1)			Lab File ID: TQQ002425.D			Analyzed: 06/01/26 12:29			
ISTD: Bromochloromethane	71229	3.232	66133	3.251	108	60 - 140	-0.0190	+/-0.50	
ISTD: 1,4-Difluorobenzene	270676	4.233	257343	4.248	105	60 - 140	-0.0150	+/-0.50	
ISTD: d5-Chlorobenzene	244479	6.504	230065	6.511	106	60 - 140	-0.0070	+/-0.50	

FORM VIII INTERNAL STANDARD AREA AND RT SUMMARY
EPA TO-15

Laboratory: ALS Environmental - Stratford
Client: Hydro Tech Environmental
Sequence: S6G1321

SDG: 26G0459
Project: 152 Graham Avenue Brooklyn, NY 240052
Instrument: AIR 4
Calibration: SF60002

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (S6G1321-CCV1)			Lab File ID: TQQ003130.D			Analyzed: 07/10/26 13:03			
ISTD: Bromochloromethane	55521	3.271	66133	3.251	84	60 - 140	0.0200	+/-0.50	
ISTD: 1,4-Difluorobenzene	209166	4.265	257343	4.248	81	60 - 140	0.0170	+/-0.50	
ISTD: d5-Chlorobenzene	197622	6.517	230065	6.511	86	60 - 140	0.0060	+/-0.50	
LCS (BG60574-BS1)			Lab File ID: TQQ003131.D			Analyzed: 07/10/26 13:39			
ISTD: Bromochloromethane	54407	3.269	55521	3.271	98	60 - 140	-0.0020	+/-0.50	
ISTD: 1,4-Difluorobenzene	207172	4.263	209166	4.265	99	60 - 140	-0.0020	+/-0.50	
ISTD: d5-Chlorobenzene	192056	6.516	197622	6.517	97	60 - 140	-0.0010	+/-0.50	
Blank (BG60574-BLK1)			Lab File ID: TQQ003133.D			Analyzed: 07/10/26 15:02			
ISTD: Bromochloromethane	62439	3.27	55521	3.271	112	60 - 140	-0.0010	+/-0.50	
ISTD: 1,4-Difluorobenzene	235256	4.263	209166	4.265	112	60 - 140	-0.0020	+/-0.50	
ISTD: d5-Chlorobenzene	213777	6.517	197622	6.517	108	60 - 140	0.0000	+/-0.50	
IA-7 20260708 (26G0459-01)			Lab File ID: TQQ003141.D			Analyzed: 07/10/26 20:33			
ISTD: Bromochloromethane	55212	3.24	55521	3.271	99	60 - 140	-0.0310	+/-0.50	
ISTD: 1,4-Difluorobenzene	210379	4.236	209166	4.265	101	60 - 140	-0.0290	+/-0.50	
ISTD: d5-Chlorobenzene	194114	6.508	197622	6.517	98	60 - 140	-0.0090	+/-0.50	
IA-8 20260708 (26G0459-02)			Lab File ID: TQQ003142.D			Analyzed: 07/10/26 21:20			
ISTD: Bromochloromethane	56523	3.241	55521	3.271	102	60 - 140	-0.0300	+/-0.50	
ISTD: 1,4-Difluorobenzene	211329	4.238	209166	4.265	101	60 - 140	-0.0270	+/-0.50	
ISTD: d5-Chlorobenzene	204140	6.508	197622	6.517	103	60 - 140	-0.0090	+/-0.50	
IA-9 20260708 (26G0459-03)			Lab File ID: TQQ003143.D			Analyzed: 07/10/26 22:07			
ISTD: Bromochloromethane	56195	3.241	55521	3.271	101	60 - 140	-0.0300	+/-0.50	
ISTD: 1,4-Difluorobenzene	218084	4.237	209166	4.265	104	60 - 140	-0.0280	+/-0.50	
ISTD: d5-Chlorobenzene	201073	6.507	197622	6.517	102	60 - 140	-0.0100	+/-0.50	
IA-10 20260708 (26G0459-04)			Lab File ID: TQQ003144.D			Analyzed: 07/10/26 22:54			
ISTD: Bromochloromethane	55226	3.244	55521	3.271	99	60 - 140	-0.0270	+/-0.50	
ISTD: 1,4-Difluorobenzene	212875	4.239	209166	4.265	102	60 - 140	-0.0260	+/-0.50	
ISTD: d5-Chlorobenzene	198936	6.507	197622	6.517	101	60 - 140	-0.0100	+/-0.50	
OA-2 20260708 (26G0459-05)			Lab File ID: TQQ003145.D			Analyzed: 07/10/26 23:41			
ISTD: Bromochloromethane	56319	3.249	55521	3.271	101	60 - 140	-0.0220	+/-0.50	
ISTD: 1,4-Difluorobenzene	215523	4.245	209166	4.265	103	60 - 140	-0.0200	+/-0.50	
ISTD: d5-Chlorobenzene	198048	6.509	197622	6.517	100	60 - 140	-0.0080	+/-0.50	

FORM VIII INTERNAL STANDARD AREA AND RT SUMMARY
EPA TO-15

Laboratory: ALS Environmental - Stratford
SDG: 26G0459
Client: Hydro Tech Environmental
Project: 152 Graham Avenue Brooklyn, NY 240052
Sequence: S6G1401
Instrument: AIR 4
Calibration: SF60002

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (S6G1401-CCV1)			Lab File ID: TQQ003156.D			Analyzed: 07/13/26 10:44			
ISTD: Bromochloromethane	58437	3.269	66133	3.251	88	60 - 140	0.0180	+/-0.50	
ISTD: 1,4-Difluorobenzene	222387	4.263	257343	4.248	86	60 - 140	0.0150	+/-0.50	
ISTD: d5-Chlorobenzene	201979	6.516	230065	6.511	88	60 - 140	0.0050	+/-0.50	
LCS (BG60588-BS1)			Lab File ID: TQQ003157.D			Analyzed: 07/13/26 11:22			
ISTD: Bromochloromethane	58066	3.268	58437	3.269	99	60 - 140	-0.0010	+/-0.50	
ISTD: 1,4-Difluorobenzene	219292	4.263	222387	4.263	99	60 - 140	0.0000	+/-0.50	
ISTD: d5-Chlorobenzene	200919	6.516	201979	6.516	99	60 - 140	0.0000	+/-0.50	
Blank (BG60588-BLK1)			Lab File ID: TQQ003162.D			Analyzed: 07/13/26 14:00			
ISTD: Bromochloromethane	57227	3.269	58437	3.269	98	60 - 140	0.0000	+/-0.50	
ISTD: 1,4-Difluorobenzene	218774	4.261	222387	4.263	98	60 - 140	-0.0020	+/-0.50	
ISTD: d5-Chlorobenzene	195173	6.516	201979	6.516	97	60 - 140	0.0000	+/-0.50	
IA-9 20260708 (26G0459-03RE1)			Lab File ID: TQQ003166.D			Analyzed: 07/13/26 16:43			
ISTD: Bromochloromethane	52942	3.27	58437	3.269	91	60 - 140	0.0010	+/-0.50	
ISTD: 1,4-Difluorobenzene	202281	4.263	222387	4.263	91	60 - 140	0.0000	+/-0.50	
ISTD: d5-Chlorobenzene	189366	6.515	201979	6.516	94	60 - 140	-0.0010	+/-0.50	

FORM VI INITIAL CALIBRATION DATA

EPA TO-15

Laboratory: ALS Environmental - Stratford
SDG: 26G0459
Client: Hydro Tech Environmental
Project: 152 Graham Avenue Brooklyn, NY 240052
Calibration: SF60002
Instrument: AIR 4
Calibration Date: 05/29/26 16:00

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		0.101	0.7152444	0.505	0.6105112	2.52	0.5948397	5	0.6286055
1,1,1-Trichloroethane	0.025		0.05		0.101	3.175001	0.505	2.610202	2.52	2.561621	5	2.667757
1,1,2,2-Tetrachloroethane	0.025		0.05		0.101	1.37882	0.505	1.12181	2.52	1.091531	5	1.098937
1,1,2-Trichloro-1,2,2-trifluoro ethane (Freon 113)	0.025		0.05		0.101	2.5588	0.505	2.14421	2.52	2.116921	5	2.205803
1,1,2-Trichloroethane	0.025		0.05		0.101	0.5081017	0.505	0.4205216	2.52	0.4206047	5	0.4316939
1,1-Dichloroethane	0.025		0.05		0.101	2.5215	0.505	2.133875	2.52	2.091427	5	2.165633
1,1-Dichloroethylene	0.025	1.829787	0.05	1.65843	0.101	1.403983	0.505	1.647507	2.52	1.65714	5	1.692811
1,2,4-Trichlorobenzene	0.025		0.05		0.101	1.400171	0.505	1.022426	2.52	1.052572	5	1.133409
1,2,4-Trimethylbenzene	0.025		0.05		0.101	2.176051	0.505	1.793698	2.52	1.790193	5	1.863836
1,2-Dibromoethane	0.025		0.05		0.101	0.7794439	0.505	0.6354466	2.52	0.6521786	5	0.6711769
1,2-Dichlorobenzene	0.025		0.05		0.101	1.488135	0.505	1.160245	2.52	1.16281	5	1.167517
1,2-Dichloroethane	0.025		0.05		0.101	2.072404	0.505	1.744072	2.52	1.688677	5	1.754117
1,2-Dichloropropane	0.025		0.05		0.101	0.4446365	0.505	0.3613176	2.52	0.3573778	5	0.3685708
1,2-Dichlorotetrafluoroethane	0.025		0.05		0.101	3.112337	0.505	2.635598	2.52	2.557971	5	2.675713
1,3,5-Trimethylbenzene	0.025		0.05		0.101	2.014214	0.505	1.762795	2.52	1.735574	5	1.793977
1,3-Butadiene	0.025		0.05		0.101	0.9921878	0.505	0.7618872	2.52	0.7451772	5	0.769173
1,3-Dichlorobenzene	0.025		0.05		0.101	1.437748	0.505	1.16444	2.52	1.186765	5	1.196227
1,3-Dichloropropane	0.025		0.05		0.101	0.7574021	0.505	0.622357	2.52	0.6241775	5	0.6493782
1,4-Dichlorobenzene	0.025		0.05		0.101	1.365156	0.505	1.174455	2.52	1.198147	5	1.222878
1,4-Dioxane	0.025		0.05		0.101	~~0.2436~~	0.505	0.3253589	2.52	0.2691511	5	0.2577707
2,2,4-Trimethylpentane	0.025	5.294833	0.05	6.673135	0.101	7.57942	0.505	6.1264	2.52	5.991878	5	6.164372
2-Butanone	0.025		0.05		0.101	0.8579068	0.505	0.6780206	2.52	0.6411683	5	0.6596815
2-Hexanone	0.025		0.05		0.101	~~1.794127~~	0.505	0.9158194	2.52	0.7710673	5	0.7525721
3-Chloropropene	0.025		0.05		0.101	1.705369	0.505	1.395021	2.52	1.29245	5	1.32831
4-Methyl-2-pentanone	0.025		0.05		0.101	1.173156	0.505	0.7711569	2.52	0.6983108	5	0.711855
Acetone	0.025		0.05		0.101	~~4.844562~~	0.505	~~1.357813~~	2.52	0.7110661	5	0.6149181
Acrolein	0.025		0.05		0.101	0.5251881	0.505	0.3800577	2.52	0.3264489	5	0.3280544
Acrylonitrile	0.025		0.05		0.101	1.250306	0.505	1.06428	2.52	1.009688	5	0.8788447
Benzene	0.025		0.05		0.101	6.506663	0.505	4.283991	2.52	3.939349	5	4.002822
Benzyl chloride	0.025		0.05		0.101	1.844263	0.505	1.449322	2.52	1.518824	5	1.608403

FORM VI

INITIAL CALIBRATION DATA

EPA TO-15

Laboratory: ALS Environmental - Stratford

Client: Hydro Tech Environmental

Calibration: SF60002

SDG: 26G0459

Project: 152 Graham Avenue Brooklyn, NY 240052

Instrument: AIR 4

Calibration Date: 05/29/26 16:00

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
Bromodichloromethane	0.025		0.05		0.101	0.8934533	0.505	0.7410659	2.52	0.7405446	5	0.7740205
Bromoform	0.025		0.05		0.101	0.9432686	0.505	0.8180953	2.52	0.8256977	5	0.8711847
Bromomethane	0.025		0.05		0.101	1.123485	0.505	0.9021571	2.52	0.8919744	5	0.928892
Carbon disulfide	0.025		0.05		0.101	3.592764	0.505	2.985535	2.52	2.871015	5	2.988637
Carbon tetrachloride	0.025	3.191489	0.05	2.686232	0.101	1.648673	0.505	2.580671	2.52	2.61213	5	2.69835
Chlorobenzene	0.025		0.05		0.101	1.338681	0.505	1.121981	2.52	1.104707	5	1.152508
Chloroethane	0.025		0.05		0.101	0.7057216	0.505	0.5489722	2.52	0.5351248	5	0.5595569
Chloroform	0.025		0.05		0.101	1.608389	0.505	2.618471	2.52	1.381019	5	2.622604
Chloromethane	0.025		0.05		0.101	1.536772	0.505	1.152281	2.52	1.091913	5	1.119954
cis-1,2-Dichloroethylene	0.025	2.091185	0.05	1.643271	0.101	1.903807	0.505	1.610889	2.52	1.567014	5	1.620878
cis-1,3-Dichloropropylene	0.025		0.05		0.101	0.7327001	0.505	0.6202506	2.52	0.6232957	5	0.6867553
Cyclohexane	0.025		0.05		0.101	2.998944	0.505	2.075109	2.52	1.980058	5	2.014441
Dibromochloromethane	0.025		0.05		0.101	0.9052342	0.505	0.7492657	2.52	0.7681899	5	0.7979836
Dichlorodifluoromethane	0.025		0.05		0.101	3.434611	0.505	2.822526	2.52	2.768143	5	2.910278
Ethanol	0.025		0.05		0.101	~~4.05678~~	0.505	2.223943	2.52	1.858993	5	1.767987
Ethyl acetate	0.025		0.05		0.101	5.705453	0.505	4.142245	2.52	3.929116	5	3.977303
Ethyl Benzene	0.025		0.05		0.101	2.483073	0.505	1.891198	2.52	1.854746	5	1.905911
Hexachlorobutadiene	0.025		0.05		0.101	1.054719	0.505	0.864577	2.52	0.8681407	5	0.9365893
Isopropanol	0.025		0.05		0.101	~~4.05678~~	0.505	~~2.223943~~	2.52	1.858993	5	1.767987
Isopropylbenzene	0.025		0.05		0.101	2.873788	0.505	2.162555	2.52	2.09947	5	2.155021
Methyl Methacrylate	0.025		0.05		0.101	0.5711868	0.505	0.4363194	2.52	0.4339246	5	0.4504798
Methyl tert-butyl ether (MTBE)	0.025		0.05		0.101	4.107508	0.505	3.308008	2.52	3.236781	5	3.339358
Methylene chloride	0.025		0.05		0.101	1.547216	0.505	1.227288	2.52	1.198316	5	1.240014
Naphthalene	0.025		0.05		0.101	3.674435	0.505	2.708095	2.52	2.745652	5	2.89525
n-Butylbenzene	0.025		0.05		0.101	2.609895	0.505	2.172656	2.52	2.197394	5	2.261463
n-Heptane	0.025		0.05		0.101	2.657273	0.505	2.197956	2.52	2.16701	5	2.218953
n-Hexane	0.025		0.05		0.101	2.396171	0.505	1.816422	2.52	1.853847	5	1.898044
n-Propylbenzene	0.025		0.05		0.101	3.182518	0.505	2.596984	2.52	2.565998	5	2.639617
o-Xylene	0.025		0.05		0.101	2.190143	0.505	1.71075	2.52	1.651258	5	1.688547
p- & m- Xylenes	0.05		0.1		0.202	1.033795	1.01	0.7950684	5.04	0.711131	10	0.7453364
p-Ethyltoluene	0.025		0.05		0.101	2.696578	0.505	2.12412	2.52	2.068323	5	2.149546
p-Isopropyltoluene	0.025		0.05		0.101	2.032575	0.505	1.701676	2.52	1.696115	5	1.747274

FORM VI

INITIAL CALIBRATION DATA

EPA TO-15

Laboratory: ALS Environmental - Stratford

Client: Hydro Tech Environmental

Calibration: SF60002

SDG: 26G0459

Project: 152 Graham Avenue Brooklyn, NY 240052

Instrument: AIR 4

Calibration Date: 05/29/26 16:00

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
Propylene	0.025		0.05		0.101	1.041424	0.505	0.7745853	2.52	0.7803056	5	0.7764985
sec-Butylbenzene	0.025		0.05		0.101	3.078754	0.505	2.633536	2.52	2.584003	5	2.654876
Styrene	0.025		0.05		0.101	1.359178	0.505	1.146292	2.52	1.142839	5	1.19614
tert-Butylbenzene	0.025		0.05		0.101	2.530898	0.505	2.164439	2.52	2.2075	5	2.241645
Tetrachloroethylene	0.025		0.05		0.101	0.6722751	0.505	0.5709766	2.52	0.5739921	5	0.5977072
Tetrahydrofuran	0.025		0.05		0.101	1.862031	0.505	1.334189	2.52	1.305676	5	1.339538
Toluene	0.025		0.05		0.101	1.740543	0.505	1.291129	2.52	1.258256	5	1.287039
trans-1,2-Dichloroethylene	0.025		0.05		0.101	1.975424	0.505	1.711884	2.52	1.673297	5	1.724485
trans-1,3-Dichloropropylene	0.025		0.05		0.101	0.7327001	0.505	0.6202506	2.52	0.6232957	5	0.6867553
Trichloroethylene	0.025	0.4930821	0.05	0.4429421	0.101	0.5164624	0.505	0.4303764	2.52	0.4470124	5	0.4622278
Trichlorofluoromethane (Freon 11)	0.025		0.05		0.101	3.236174	0.505	2.729505	2.52	2.712608	5	2.851735
Vinyl acetate	0.025		0.05		0.101	1.187641	0.505	1.031501	2.52	0.9726441	5	0.9023823
Vinyl bromide	0.025		0.05		0.101	1.175705	0.505	0.9880909	2.52	0.9740804	5	1.02025
Vinyl Chloride	0.025	1.282675	0.05	0.9792924	0.101	1.147357	0.505	0.9759834	2.52	0.9764741	5	1.009952

FORM VI INITIAL CALIBRATION DATA (Continued)

EPA TO-15

Laboratory: ALS Environmental - Stratford
SDG: 26G0459
Client: Hydro Tech Environmental
Project: 152 Graham Avenue Brooklyn, NY 240052
Calibration: SF60002
Instrument: AIR 4
Calibration Date: 05/29/26 16:00

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	0.6242801	15	0.6129828	20	0.6144519	30	0.593907				
1,1,1-Trichloroethane	10	2.659096	15	2.641676	20	4.901671	30	2.55084				
1,1,2,2-Tetrachloroethane	10	1.072675	15	1.067583	20	1.053609	30	1.016584				
1,1,2-Trichloro-1,2,2-trifluoro ethane (Freon 113)	10	2.169991	15	2.175139	20	3.996559	30	2.066609				
1,1,2-Trichloroethane	10	0.4229491	15	0.4309851	20	0.4151423	30	0.4097582				
1,1-Dichloroethane	10	2.15236	15	2.137393	20	3.953706	30	2.052677				
1,1-Dichloroethylene	10	1.681732	15	1.678784	20	3.108854	30	1.608909				
1,2,4-Trichlorobenzene	10	1.173421	15	1.209831	20	1.201029	30	1.215044				
1,2,4-Trimethylbenzene	10	1.816582	15	1.800584	20	1.748548	30	1.697303				
1,2-Dibromoethane	10	0.6644206	15	0.6657366	20	0.6535896	30	0.630423				
1,2-Dichlorobenzene	10	1.171638	15	1.161538	20	1.149977	30	1.11246				
1,2-Dichloroethane	10	1.744757	15	1.746011	20	3.235491	30	1.67463				
1,2-Dichloropropane	10	0.3611134	15	0.3632399	20	0.3575905	30	0.3462085				
1,2-Dichlorotetrafluoroethane	10	2.653229	15	2.60542	20	4.798152	30	2.476865				
1,3,5-Trimethylbenzene	10	1.780166	15	1.780435	20	1.750567	30	1.681545				
1,3-Butadiene	10	0.7647922	15	0.7648232	20	1.412659	30	0.7382133				
1,3-Dichlorobenzene	10	1.183557	15	1.180569	20	1.144166	30	1.075951				
1,3-Dichloropropane	10	0.6349153	15	0.6315592	20	0.6163075	30	0.5988843				
1,4-Dichlorobenzene	10	1.218843	15	1.215932	20	1.197199	30	1.139136				
1,4-Dioxane	10	0.2529231	15	0.2509495	20	0.24597	30	0.2399121				
2,2,4-Trimethylpentane	10	6.101795	15	6.051645	20	11.18651	30	5.757991				
2-Butanone	10	0.6487684	15	0.656003	20	1.224055	30	0.6384765				
2-Hexanone	10	0.7372923	15	0.7264219	20	0.7135534	30	0.6868622				
3-Chloropropene	10	1.312764	15	1.313904	20	2.420929	30	1.258042				
4-Methyl-2-pentanone	10	0.6907862	15	0.7128303	20	0.628427	30	0.6052065				
Acetone	10	0.5651188	15	0.5391519	20	1.018738	30	0.5291237				
Acrolein	10	0.3215339	15	0.3173277	20	0.5876876	30	0.3064134				
Acrylonitrile	10	0.8726657	15	0.8664901	20	1.599196	30	0.8330222				
Benzene	10	3.930186	15	3.915752	20	7.194966	30	3.732413				
Benzyl chloride	10	1.639902	15	1.634377	20	1.608323	30	1.567956				

FORM VI INITIAL CALIBRATION DATA (Continued)

EPA TO-15

Laboratory: ALS Environmental - Stratford
SDG: 26G0459
Client: Hydro Tech Environmental
Project: 152 Graham Avenue Brooklyn, NY 240052
Calibration: SF60002
Instrument: AIR 4
Calibration Date: 05/29/26 16:00

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
Bromodichloromethane	10	0.7628068	15	0.7629246	20	0.7418164	30	0.7243808				
Bromoform	10	0.8571795	15	0.8316392	20	0.831543	30	0.7770999				
Bromomethane	10	0.9288857	15	0.9207778	20	1.708542	30	0.8865049				
Carbon disulfide	10	2.954637	15	2.931401	20	5.450091	30	2.804378				
Carbon tetrachloride	10	2.705321	15	2.718464	20	4.993899	30	2.591207				
Chlorobenzene	10	1.134475	15	1.136386	20	1.112304	30	1.071823				
Chloroethane	10	0.5569232	15	0.552581	20	1.026097	30	0.5368472				
Chloroform	10	2.618995	15	2.601675	20	~~4.870124~~	30	~~2.496327~~				
Chloromethane	10	1.102415	15	1.099886	20	2.030665	30	1.040551				
cis-1,2-Dichloroethylene	10	1.614398	15	1.610211	20	2.973311	30	1.536312				
cis-1,3-Dichloropropylene	10	0.6711354	15	0.6458497	20	0.6346161	30	0.6200137				
Cyclohexane	10	1.972283	15	1.976622	20	3.657303	30	1.896769				
Dibromochloromethane	10	0.7931127	15	0.7888992	20	0.7788847	30	0.7475144				
Dichlorodifluoromethane	10	2.893457	15	2.823152	20	5.252089	30	2.71366				
Ethanol	10	1.722453	15	1.699622	20	3.175144	30	1.635951				
Ethyl acetate	10	3.926315	15	3.939222	20	7.253853	30	3.779606				
Ethyl Benzene	10	1.878017	15	1.879047	20	1.837774	30	1.762133				
Hexachlorobutadiene	10	0.9360746	15	0.9522279	20	0.93672	30	0.8594223				
Isopropanol	10	1.722453	15	1.699622	20	3.175144	30	1.635951				
Isopropylbenzene	10	2.100685	15	2.094648	20	2.051616	30	1.949214				
Methyl Methacrylate	10	0.4402529	15	0.4462898	20	0.434553	30	0.4254639				
Methyl tert-butyl ether (MTBE)	10	3.29663	15	3.309373	20	6.122517	30	3.170447				
Methylene chloride	10	1.219845	15	1.213992	20	2.249646	30	1.15652				
Naphthalene	10	2.942408	15	3.002803	20	3.009345	30	2.982415				
n-Butylbenzene	10	2.25099	15	2.236887	20	2.205732	30	2.150528				
n-Heptane	10	2.186503	15	2.172251	20	4.027832	30	2.075975				
n-Hexane	10	1.864213	15	1.872536	20	3.450568	30	1.791053				
n-Propylbenzene	10	2.596484	15	2.560306	20	2.522695	30	2.422949				
o-Xylene	10	1.656471	15	1.63358	20	1.572312	30	1.497935				
p- & m- Xylenes	20	0.7351596	30	0.8131164	40	0.7434434	60	0.7271607				
p-Ethyltoluene	10	2.124639	15	2.087909	20	2.060775	30	1.969912				
p-Isopropyltoluene	10	1.676817	15	1.666568	20	1.605514	30	1.532995				

FORM VI INITIAL CALIBRATION DATA (Continued)

EPA TO-15

Laboratory: ALS Environmental - Stratford
SDG: 26G0459
Client: Hydro Tech Environmental
Project: 152 Graham Avenue Brooklyn, NY 240052
Calibration: SF60002
Instrument: AIR 4
Calibration Date: 05/29/26 16:00

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
Propylene	10	0.7658204	15	0.7625681	20	1.425758	30	0.740917				
sec-Butylbenzene	10	2.619377	15	2.556551	20	2.498489	30	2.327076				
Styrene	10	1.191281	15	1.177588	20	1.157498	30	1.114397				
tert-Butylbenzene	10	2.248495	15	2.226163	20	2.183105	30	2.113032				
Tetrachloroethylene	10	0.5856036	15	0.5915332	20	0.5737228	30	0.5552115				
Tetrahydrofuran	10	1.331393	15	1.327578	20	2.452795	30	1.270913				
Toluene	10	1.258666	15	1.253076	20	1.235672	30	1.177716				
trans-1,2-Dichloroethylene	10	1.719066	15	1.713316	20	3.161785	30	1.639145				
trans-1,3-Dichloropropylene	10	0.6711354	15	0.6458497	20	0.6346161	30	0.6200137				
Trichloroethylene	10	0.4515646	15	0.4546108	20	0.4377476	30	0.4249078				
Trichlorofluoromethane (Freon 11)	10	2.799858	15	2.808335	20	5.263742	30	2.697892				
Vinyl acetate	10	0.9051003	15	0.9642997	20	1.865425	30	1.024522				
Vinyl bromide	10	1.012263	15	1.014577	20	1.886707	30	0.9772632				
Vinyl Chloride	10	1.007062	15	1.005913	20	1.866365	30	0.9790844				

FORM VI

INITIAL CALIBRATION DATA (Continued)

EPA TO-15

Laboratory: ALS Environmental - Stratford
SDG: 26G0459
Client: Hydro Tech Environmental
Project: 152 Graham Avenue Brooklyn, NY 240052
Calibration: SF60002
Instrument: AIR 4
Calibration Date: 05/29/26 16:00

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
1,1,1,2-Tetrachloroethane	0.6243528	6.202083	6.597875	3.002122E-02			30	
1,1,1-Trichloroethane	2.970983	27.11012	3.654875	0.2015178			30	
1,1,2,2-Tetrachloroethane	1.112694	10.07138	7.25975	1.395822E-02			30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	2.429254	26.79228	2.200375	0.1800764			30	
1,1,2-Trichloroethane	0.4324696	7.266657	5.667125	7.138506E-02			30	
1,1-Dichloroethane	2.401071	26.80978	2.7145	0.2372815			30	
1,1-Dichloroethylene	1.796794	26.3086	3.0721	0.2672696			30	
1,2,4-Trichlorobenzene	1.175988	9.863842	9.29775	1.343457E-02			30	
1,2,4-Trimethylbenzene	1.835849	7.942092	7.94175	1.908416E-02			30	
1,2-Dibromoethane	0.669052	7.003383	6.113125	5.292012E-02			30	
1,2-Dichlorobenzene	1.19679	9.957322	8.29625	0.024509			30	
1,2-Dichloroethane	1.95752	27.13936	3.775625	0.2019413			30	
1,2-Dichloropropane	0.3700069	8.331438	4.562	0.1296348			30	
1,2-Dichlorotetrafluoroethane	2.939411	26.35071	1.553875	5.350338E-02			30	
1,3,5-Trimethylbenzene	1.787409	5.491509	7.720375	2.205866E-02			30	
1,3-Butadiene	0.8686141	27.04592	1.626125	7.520383E-02			30	
1,3-Dichlorobenzene	1.196178	8.76882	8.066	1.525174E-02			30	
1,3-Dichloropropane	0.6418726	7.621798	5.781	6.191564E-02			30	
1,4-Dichlorobenzene	1.216468	5.435815	8.139	9.210873E-03			30	
1,4-Dioxane	0.2631479	10.99582	4.629857	0.1757292			30	
2,2,4-Trimethylpentane	6.692798	25.22886	4.3287	0.1294523			30	
2-Butanone	0.75051	27.26358	2.88925	0.2832292			30	
2-Hexanone	0.7576555	9.872289	5.786857	6.586938E-02			30	
3-Chloropropene	1.503349	26.39264	2.267	0.2001193			30	
4-Methyl-2-pentanone	0.7489661	23.89817	5.110375	9.710074E-02			30	
Acetone	0.6630194	28.13717	1.953167	0.1689095			30	
Acrolein	0.386589	28.02983	1.928875	0.1620676			30	
Acrylonitrile	1.046812	25.14465	2.164	0.1761472			30	
Benzene	4.688268	28.92127	3.9035	0.1972433			30	
Benzyl chloride	1.608921	7.135544	8.111625	9.545214E-03			30	
Bromodichloromethane	0.7676266	6.944815	4.722375	0.1275024			30	

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

EPA TO-15

Laboratory: ALS Environmental - Stratford SDG: 26G0459

Client: Hydro Tech Environmental Project: 152 Graham Avenue Brooklyn, NY 240052

Calibration: SF60002 Instrument: AIR 4

Calibration Date: 05/29/26 16:00

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Bromoform	0.8444635	5.758816	7.02975	0.0304187			30	
Bromomethane	1.036402	27.22234	1.711875	9.470121E-02			30	
Carbon disulfide	3.322307	26.88643	2.313625	0.2080714			30	
Carbon tetrachloride	2.842644	29.75702	3.9217	0.1770404			30	
Chlorobenzene	1.146608	7.093741	6.533375	0.0341448			30	
Chloroethane	0.627728	27.13701	1.756	0.0816065			30	
Chloroform	2.241859	26.01582	3.329333	0.0833127			30	
Chloromethane	1.271805	27.03441	1.551625	5.973847E-02			30	
cis-1,2-Dichloroethylene	1.817128	24.30823	2.5733	0.2393421			30	
cis-1,3-Dichloropropylene	0.6543271	6.123609	5.130625	8.813324E-02			30	
Cyclohexane	2.321441	27.89868	3.946625	0.1734103			30	
Dibromochloromethane	0.7911355	6.303168	5.993625	5.406705E-02			30	
Dichlorodifluoromethane	3.20224	26.78948	1.5035	5.128832E-02			30	
Ethanol	2.012013	27.24988	1.986286	0.196633			30	
Ethyl acetate	4.581639	27.20246	3.155875	0.2846602			30	
Ethyl Benzene	1.936487	11.63389	6.685125	0.0285872			30	
Hexachlorobutadiene	0.9260589	6.966955	9.472625	0.0208017			30	
Isopropanol	1.976692	29.93952	1.9855	0.1823385			30	
Isopropylbenzene	2.185875	13.07518	7.315875	4.40231E-03			30	
Methyl Methacrylate	0.4548088	10.47786	4.672125	0.1251523			30	
Methyl tert-butyl ether (MTBE)	3.736328	26.98909	2.580875	0.2519347			30	
Methylene chloride	1.381605	26.85025	2.269375	0.1930439			30	
Naphthalene	2.99505	9.930799	9.3785	1.574139E-02			30	
n-Butylbenzene	2.260693	6.464809	8.428125	1.708549E-02			30	
n-Heptane	2.462969	26.6446	4.508125	0.1339622			30	
n-Hexane	2.117857	27.029	2.933125	0.3008101			30	
n-Propylbenzene	2.635944	8.729505	7.59175	1.891407E-02			30	
o-Xylene	1.700125	12.304	7.019875	1.922744E-02			30	
p- & m- Xylenes	0.7880264	13.33554	6.778375	3.333549E-02			30	
p-Ethyltoluene	2.160225	10.35321	7.681875	2.129735E-02			30	
p-Isopropyltoluene	1.707442	8.59872	7.921875	9.227199E-03			30	
Propylene	0.8834846	27.11618	1.490875	1.565875E-02			30	
sec-Butylbenzene	2.619083	8.134627	8.07225	2.366567E-02			30	

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

EPA TO-15

Laboratory: ALS Environmental - Stratford
SDG: 26G0459
Client: Hydro Tech Environmental
Project: 152 Graham Avenue Brooklyn, NY 240052
Calibration: SF60002
Instrument: AIR 4
Calibration Date: 05/29/26 16:00

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Styrene	1.185652	6.341274	7.005125	0.0272107			30	
tert-Butylbenzene	2.23941	5.623366	8.184375	2.384862E-02			30	
Tetrachloroethylene	0.5901278	6.057008	6.0465	5.172753E-02			30	
Tetrahydrofuran	1.528014	27.48051	3.370375	0.3069709			30	
Toluene	1.312762	13.4357	5.52875	7.693197E-02			30	
trans-1,2-Dichloroethylene	1.9148	26.84271	2.133625	0.1681956			30	
trans-1,3-Dichloropropylene	0.6543271	6.123609	5.130625	8.813324E-02			30	
Trichloroethylene	0.4560934	6.243839	4.5196	0.1186338			30	
Trichlorofluoromethane (Freon 11)	3.137481	27.92899	1.919625	0.1395344			30	
Vinyl acetate	1.106689	28.88401	2.721	0.2476506			30	
Vinyl bromide	1.131117	27.58909	1.844	0.1083271			30	
Vinyl Chloride	1.123016	24.88792	1.5998	7.689286E-02			30	

Data Path : C:\MassHunter\GCMS\1\data\2026\5-MAY\052926\
Data File : TQQ002411.D
Acq On : 29 May 2026 10:42 pm
Operator : YR
Sample : SEQ-CAL1
Misc :
ALS Vial : 1 Sample Multiplier: 1

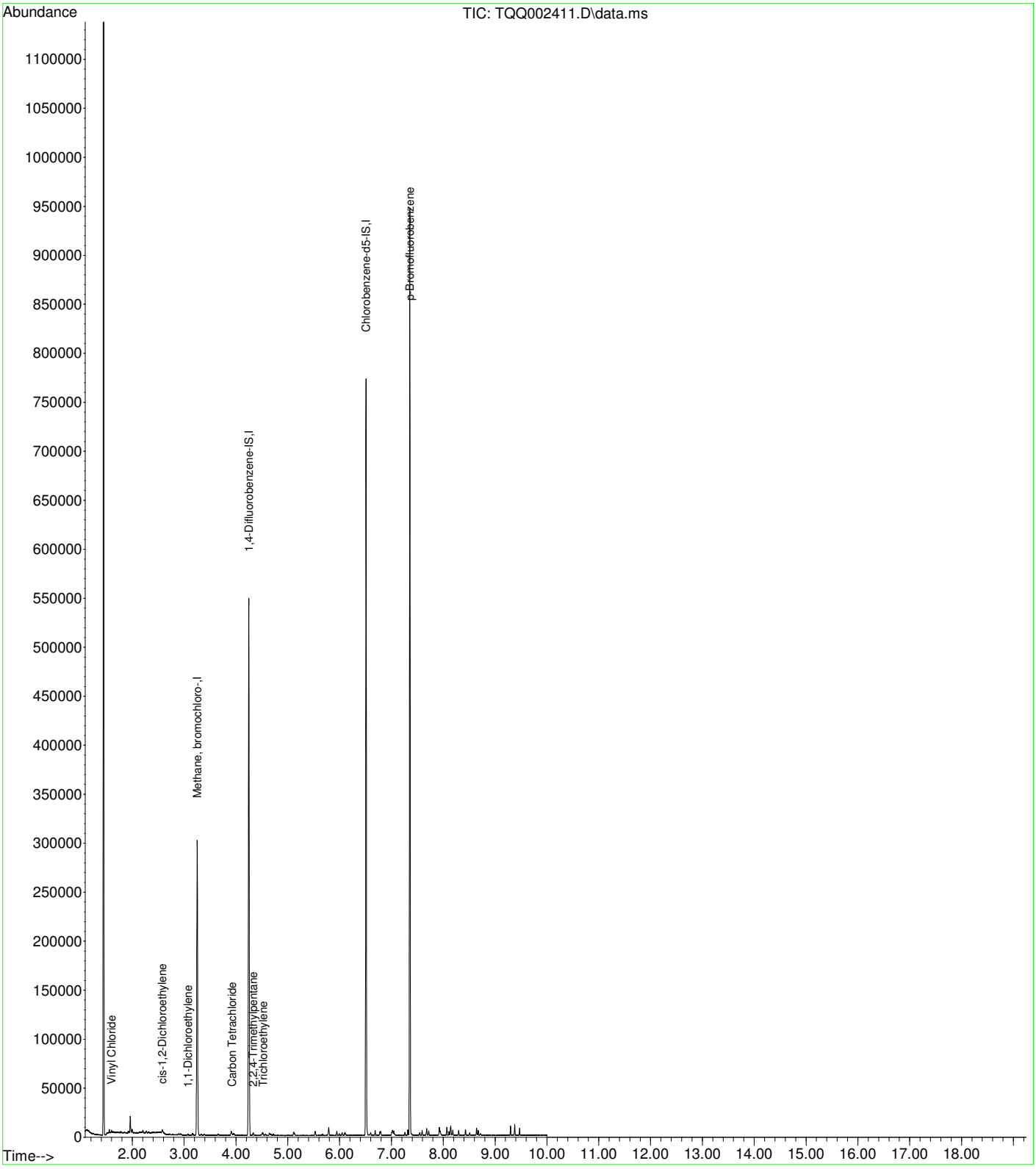
Quant Time: Jul 07 13:36:29 2026
Quant Method : C:\MassHunter\GCMS\1\methods\QA4 01JUNE2026(updated070726).m
Quant Title : TO-15
QLast Update : Tue Jul 07 13:34:36 2026
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Methane, bromochloro-	3.252	130	65800	10.00	ppbv	# 0.00
38) 1,4-Difluorobenzene-IS	4.247	114	257158	10.00	ppbv	0.00
55) Chlorobenzene-d5-IS	6.509	117	226934	10.00	ppbv	0.00
Target Compounds						Qvalue
9) Vinyl Chloride	1.600	62	211m	0.03	ppbv	
16) 1,1-Dichloroethylene	3.072	61	301m	0.03	ppbv	
28) cis-1,2-Dichloroethylene	2.577	61	344m	0.03	ppbv	
36) Carbon Tetrachloride	3.925	117	525	0.03	ppbv	# 18
37) 2,2,4-Trimethylpentane	4.330	57	871	0.02	ppbv	# 48
41) Trichloroethylene	4.522	130	317m	0.03	ppbv	
64) p-Bromofluorobenzene	7.355	95	177292	10.12	ppbv	97

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

Data Path : C:\MassHunter\GCMS\1\data\2026\5-MAY\052926\
Data File : TQQ002411.D
Acq On : 29 May 2026 10:42 pm
Operator : YR
Sample : SEQ-CAL1
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 07 13:36:29 2026
Quant Method : C:\MassHunter\GCMS\1\methods\QA4 01JUNE2026(updated070726).m
Quant Title : TO-15
QLast Update : Tue Jul 07 13:34:36 2026
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MassHunter\GCMS\1\data\2026\5-MAY\052926\
Data File : TQQ002413.D
Acq On : 30 May 2026 12:06 am
Operator : YR
Sample : SEQ-CAL2
Misc :
ALS Vial : 1 Sample Multiplier: 1

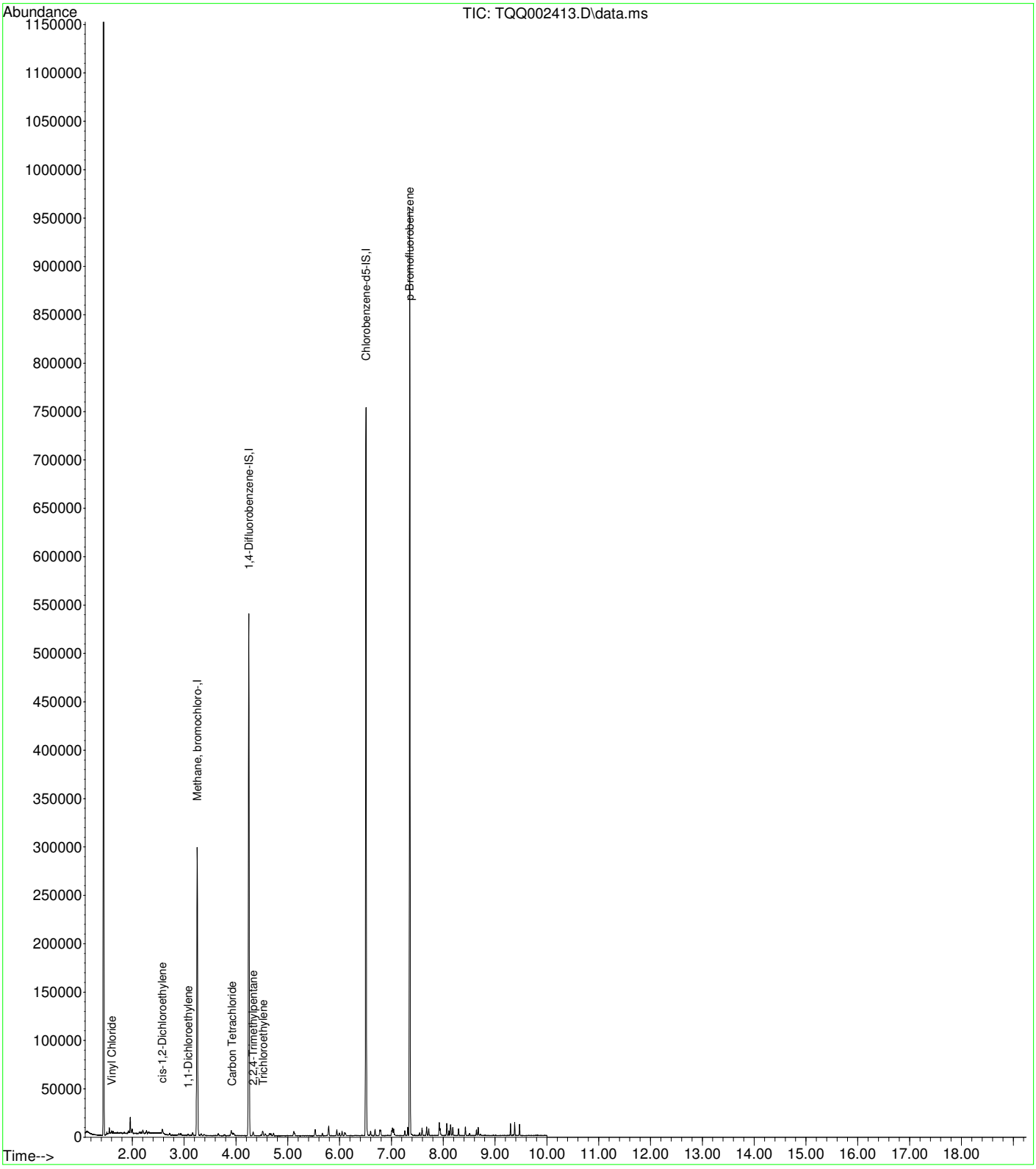
Quant Time: Jul 07 12:33:53 2026
Quant Method : C:\MassHunter\GCMS\1\methods\QA4 01JUNE2026(updated070726).m
Quant Title : TO-15
QLast Update : Tue Jul 07 12:30:14 2026
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Methane, bromochloro-	3.252	130	65966	10.00	ppbv	# 0.00
38) 1,4-Difluorobenzene-IS	4.249	114	257370	10.00	ppbv	0.00
55) Chlorobenzene-d5-IS	6.509	117	228352	10.00	ppbv	0.00
Target Compounds						Qvalue
9) Vinyl Chloride	1.603	62	323m	0.04	ppbv	
16) 1,1-Dichloroethylene	3.079	61	547m	0.05	ppbv	
28) cis-1,2-Dichloroethylene	2.579	61	542m	0.04	ppbv	
36) Carbon Tetrachloride	3.925	117	886	0.05	ppbv	# 80
37) 2,2,4-Trimethylpentane	4.331	57	2201	0.05	ppbv	# 63
41) Trichloroethylene	4.522	130	570	0.05	ppbv	# 44
64) p-Bromofluorobenzene	7.354	95	175789	10.00	ppbv	96

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

Data Path : C:\MassHunter\GCMS\1\data\2026\5-MAY\052926\
Data File : TQQ002413.D
Acq On : 30 May 2026 12:06 am
Operator : YR
Sample : SEQ-CAL2
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 07 12:33:53 2026
Quant Method : C:\MassHunter\GCMS\1\methods\QA4 01JUNE2026(updated070726).m
Quant Title : TO-15
QLast Update : Tue Jul 07 12:30:14 2026
Response via : Initial Calibration



Data Path : C:\MassHunter\GCMS\1\data\2026\5-MAY\052926\
Data File : TQQ002414.D
Acq On : 30 May 2026 12:47 am
Operator : YR
Sample : SEQ-CAL3
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 07 13:39:22 2026
Quant Method : C:\MassHunter\GCMS\1\methods\QA4 01JUNE2026(updated070726).m
Quant Title : TO-15
QLast Update : Tue Jul 07 13:34:36 2026
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Methane, bromochloro-	3.251	130	66360	10.00	ppbv	# 0.00
38) 1,4-Difluorobenzene-IS	4.246	114	260531	10.00	ppbv	0.00
55) Chlorobenzene-d5-IS	6.511	117	231867	10.00	ppbv	0.00
Target Compounds						Qvalue
2) Propylene	1.491	41	698	0.13	ppbv	# 51
3) Dichlorodifluoromethane	1.505	85	2302	0.11	ppbv	# 88
4) 1,2-Dichlorotetrafluor...	1.555	85	2086	0.11	ppbv	# 77
5) Chloromethane	1.553	50	1030	0.13	ppbv	# 57
6) Chloroethane	1.758	64	473m	0.12	ppbv	
7) 1,3-Butadiene	1.625	54	665	0.12	ppbv	# 1
8) Bromomethane	1.714	94	753	0.12	ppbv	# 84
9) Vinyl Chloride	1.600	62	769	0.11	ppbv	# 49
10) Ethanol	1.990	45	2719	0.62	ppbv	# 20
11) Vinyl Bromide	1.846	106	788	0.11	ppbv	# 17
12) Trichlorofluoromethane...	1.921	101	2169	0.11	ppbv	# 92
13) Acrolein	1.930	56	352m	0.15	ppbv	
14) Acetone	1.960	58	3247	0.80	ppbv	67
15) Isopropanol	1.990	45	2719	0.22	ppbv	# 71
16) 1,1-Dichloroethylene	3.076	61	941	0.08	ppbv	# 69
17) Acrylonitrile	2.168	53	838	0.13	ppbv	# 79
18) 1,1,2-Trichloro-1,2,2-...	2.203	101	1715	0.11	ppbv	# 85
19) Methylene Chloride	2.271	49	1037	0.12	ppbv	# 81
20) 3-Chloropropene	2.270	41	1143	0.12	ppbv	# 1
21) Carbon Disulfide	2.316	76	2408	0.12	ppbv	# 75
22) trans-1,2-Dichloroethy...	2.136	61	1324	0.11	ppbv	# 81
23) Methyl-tert-Butyl-ethe...	2.583	73	2753	0.12	ppbv	# 54
24) 1,1-Dichloroethane	2.717	63	1690	0.11	ppbv	# 54
25) Vinyl Acetate	2.722	43	796	0.11	ppbv	# 73
26) 2-Butanone	2.898	72	575m	0.12	ppbv	
27) n-Hexane	2.937	57	1606	0.12	ppbv	# 63
28) cis-1,2-Dichloroethylene	2.576	61	1276	0.11	ppbv	# 55
29) Ethyl Acetate	3.163	43	3824	0.13	ppbv	# 75
30) Chloroform	3.326	83	1078	0.06	ppbv	# 31
31) Tetrahydrofuran	3.383	42	1248m	0.13	ppbv	
32) 1,1,1-Trichloroethane	3.656	97	2128	0.11	ppbv	# 52
33) 1,2-Dichloroethane	3.779	62	1389	0.11	ppbv	# 47
34) Cyclohexane	3.947	56	2010	0.14	ppbv	# 56
35) Benzene	3.905	78	4361	0.15	ppbv	# 85
36) Carbon Tetrachloride	3.921	117	1105	0.06	ppbv	# 83
37) 2,2,4-Trimethylpentane	4.331	57	5080	0.11	ppbv	# 84
39) n-Heptane	4.510	43	1781	0.11	ppbv	# 56
40) 1,2-Dichloropropane	4.562	63	1170	0.12	ppbv	# 44
41) Trichloroethylene	4.520	130	1359	0.11	ppbv	# 71
42) Bromodichloromethane	4.723	83	2351	0.11	ppbv	# 85
43) 1,4-Dioxane	4.639	88	641	0.09	ppbv	# 71
44) Methyl Methacrylate	4.675	41	1503	0.12	ppbv	# 77
45) cis-1,3-Dichloropropylene	5.131	75	1928	0.11	ppbv	# 68
46) 4-Methyl-2-pentanone	5.112	43	3087	0.15	ppbv	# 88
47) trans-1,3-Dichloroprop...	5.131	75	1928	0.11	ppbv	# 64
48) Toluene	5.531	91	4580	0.13	ppbv	100
49) 1,1,2-Trichloroethane	5.668	97	1337	0.11	ppbv	# 97
50) 1,3-Dichloropropane	5.784	76	1993	0.11	ppbv	# 62
51) 2-Hexanone	5.789	43	4721	0.20	ppbv	# 93
52) Dibromochloromethane	5.993	129	2382	0.11	ppbv	# 94
53) 1,2-Dibromoethane	6.114	107	2051	0.11	ppbv	# 97

Data Path : C:\MassHunter\GCMS\1\data\2026\5-MAY\052926\
Data File : TQQ002414.D
Acq On : 30 May 2026 12:47 am
Operator : YR
Sample : SEQ-CAL3
Misc :
ALS Vial : 1 Sample Multiplier: 1

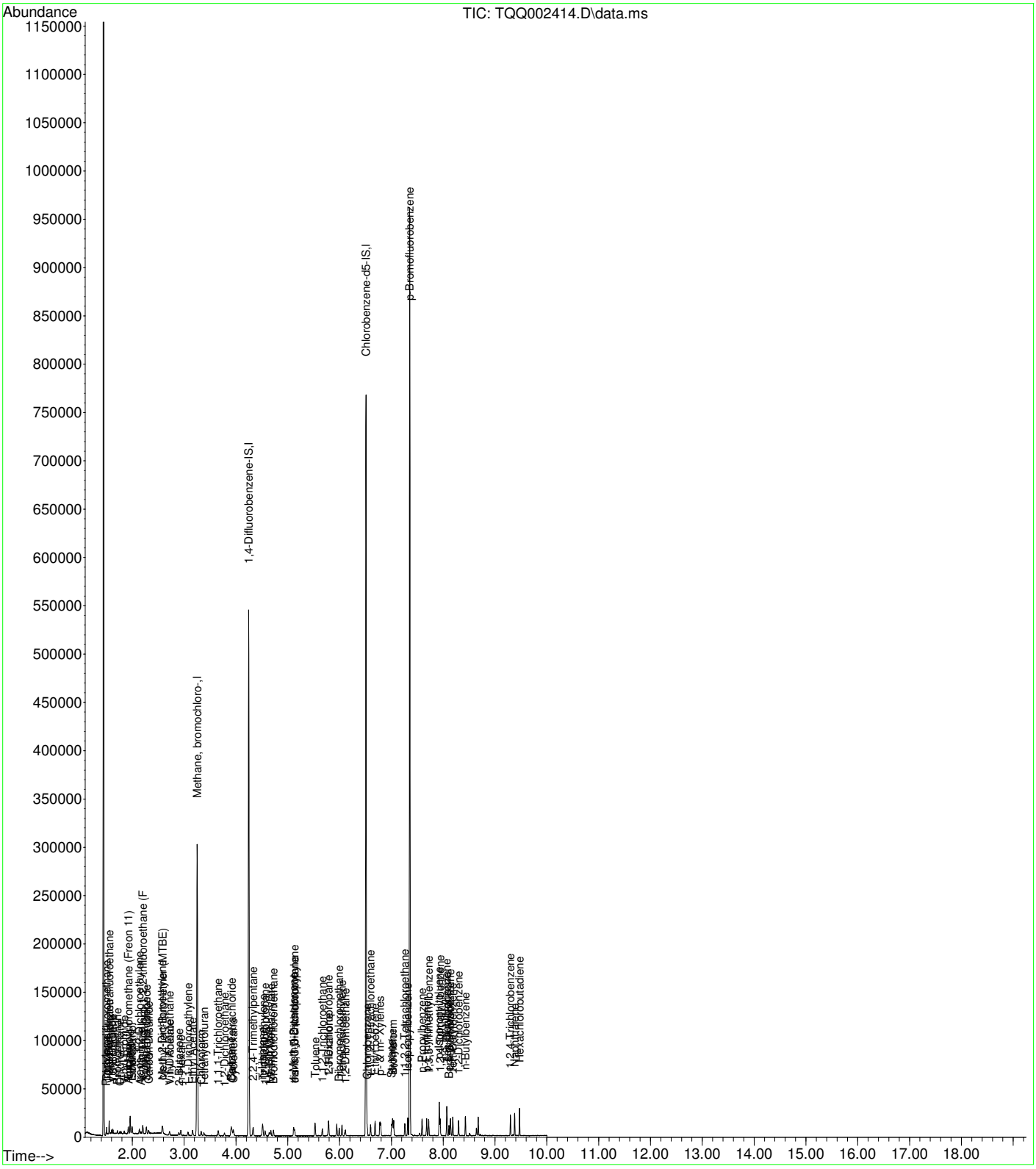
Quant Time: Jul 07 13:39:22 2026
Quant Method : C:\MassHunter\GCMS\1\methods\QA4 01JUNE2026(updated070726).m
Quant Title : TO-15
QLast Update : Tue Jul 07 13:34:36 2026
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
54) Tetrachloroethylene	6.047	166	1769	0.11	ppbv #	93
56) Chlorobenzene	6.534	112	3135	0.11	ppbv	96
57) 1,1,1,2-Tetrachloroethane	6.598	131	1675	0.11	ppbv #	83
58) Ethyl benzene	6.686	91	5815	0.12	ppbv #	92
59) p- & m- Xylenes	6.778	91	4842	0.26	ppbv	89
60) Bromoform	7.027	173	2209	0.11	ppbv #	98
61) Styrene	7.003	104	3183	0.11	ppbv	89
62) o-Xylene	7.019	91	5129	0.13	ppbv	92
63) 1,1,2,2-Tetrachloroethane	7.260	83	3229	0.12	ppbv #	90
64) p-Bromofluorobenzene	7.354	95	177712	9.93	ppbv	96
65) Isopropylbenzene	7.315	105	6730	0.13	ppbv	97
66) n-Propylbenzene	7.591	91	7453	0.12	ppbv	99
67) p-Ethyltoluene	7.682	105	6315	0.12	ppbv	93
68) 1,3,5-Trimethylbenzene	7.718	105	4717	0.11	ppbv	99
69) tert-Butylbenzene	8.185	119	5927	0.11	ppbv #	57
70) 1,2,4-Trimethylbenzene	7.942	105	5096	0.12	ppbv	90
71) 1,3-Dichlorobenzene	8.066	146	3367	0.12	ppbv	96
72) sec-Butylbenzene	8.071	105	7210	0.11	ppbv	98
73) 1,4-Dichlorobenzene	8.137	146	3197	0.11	ppbv	99
74) Benzyl Chloride	8.110	91	4319	0.11	ppbv #	88
75) p-Isopropyltoluene	7.921	119	4760	0.12	ppbv #	55
76) 1,2-Dichlorobenzene	8.295	146	3485	0.12	ppbv	99
77) n-Butylbenzene	8.428	91	6112	0.11	ppbv	99
78) 1,2,4-Trichlorobenzene	9.296	180	3279	0.12	ppbv	96
79) Naphthalene	9.379	128	8605	0.12	ppbv	99
80) Hexachlorobutadiene	9.473	225	2470	0.11	ppbv	86

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

Data Path : C:\MassHunter\GCMS\1\data\2026\5-MAY\052926\
Data File : TQQ002414.D
Acq On : 30 May 2026 12:47 am
Operator : YR
Sample : SEQ-CAL3
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 07 13:39:22 2026
Quant Method : C:\MassHunter\GCMS\1\methods\QA4 01JUNE2026(updated070726).m
Quant Title : TO-15
QLast Update : Tue Jul 07 13:34:36 2026
Response via : Initial Calibration



Data Path : C:\MassHunter\GCMS\1\data\2026\5-MAY\052926\
Data File : TQQ002415.D
Acq On : 30 May 2026 01:28 am
Operator : YR
Sample : SEQ-CAL4
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 07 13:40:12 2026
Quant Method : C:\MassHunter\GCMS\1\methods\QA4 01JUNE2026(updated070726).m
Quant Title : TO-15
QLast Update : Tue Jul 07 13:34:36 2026
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Methane, bromochloro-	3.250	130	67056	10.00	ppbv	#	0.00
38) 1,4-Difluorobenzene-IS	4.246	114	263228	10.00	ppbv		0.00
55) Chlorobenzene-d5-IS	6.509	117	231327	10.00	ppbv		0.00
Target Compounds							Qvalue
2) Propylene	1.491	41	2623	0.47	ppbv		92
3) Dichlorodifluoromethane	1.504	85	9558	0.47	ppbv		98
4) 1,2-Dichlorotetrafluor...	1.555	85	8925	0.48	ppbv	#	83
5) Chloromethane	1.553	50	3902	0.48	ppbv	#	89
6) Chloroethane	1.757	64	1859	0.47	ppbv		97
7) 1,3-Butadiene	1.628	54	2580	0.47	ppbv		96
8) Bromomethane	1.713	94	3055	0.47	ppbv	#	95
9) Vinyl Chloride	1.599	62	3305	0.46	ppbv	#	74
10) Ethanol	1.991	45	7531	1.69	ppbv	#	2
11) Vinyl Bromide	1.846	106	3346	0.47	ppbv		98
12) Trichlorofluoromethane...	1.920	101	9243	0.47	ppbv		98
13) Acrolein	1.934	56	1287	0.56	ppbv	#	74
14) Acetone	1.957	58	4598	1.11	ppbv		72
15) Isopropanol	1.991	45	7531	0.60	ppbv	#	91
16) 1,1-Dichloroethylene	3.071	61	5579	0.49	ppbv	#	79
17) Acrylonitrile	2.165	53	3604	0.54	ppbv	#	91
18) 1,1,2-Trichloro-1,2,2-...	2.203	101	7261	0.47	ppbv		94
19) Methylene Chloride	2.270	49	4156	0.48	ppbv	#	84
20) 3-Chloropropene	2.268	41	4724	0.50	ppbv	#	96
21) Carbon Disulfide	2.315	76	10110	0.48	ppbv		99
22) trans-1,2-Dichloroethy...	2.137	61	5797	0.48	ppbv		89
23) Methyl-tert-Butyl-ethe...	2.584	73	11202	0.47	ppbv		96
24) 1,1-Dichloroethane	2.716	63	7226	0.48	ppbv		98
25) Vinyl Acetate	2.724	43	3493	0.50	ppbv	#	73
26) 2-Butanone	2.894	72	2296	0.48	ppbv	#	1
27) n-Hexane	2.936	57	6151	0.46	ppbv		93
28) cis-1,2-Dichloroethylene	2.574	61	5455	0.47	ppbv		87
29) Ethyl Acetate	3.160	43	14027	0.48	ppbv	#	90
30) Chloroform	3.328	83	8867	0.51	ppbv	#	82
31) Tetrahydrofuran	3.376	42	4518	0.48	ppbv		94
32) 1,1,1-Trichloroethane	3.657	97	8839	0.47	ppbv		99
33) 1,2-Dichloroethane	3.777	62	5906	0.48	ppbv	#	93
34) Cyclohexane	3.947	56	7027	0.48	ppbv	#	88
35) Benzene	3.906	78	14507	0.49	ppbv		95
36) Carbon Tetrachloride	3.924	117	8739	0.48	ppbv	#	93
37) 2,2,4-Trimethylpentane	4.329	57	20746	0.46	ppbv		99
39) n-Heptane	4.510	43	7443	0.48	ppbv	#	84
40) 1,2-Dichloropropane	4.564	63	4803	0.47	ppbv	#	84
41) Trichloroethylene	4.522	130	5721	0.46	ppbv		93
42) Bromodichloromethane	4.723	83	9851	0.47	ppbv		99
43) 1,4-Dioxane	4.639	88	4325	0.61	ppbv	#	83
44) Methyl Methacrylate	4.674	41	5800	0.47	ppbv	#	84
45) cis-1,3-Dichloropropylene	5.132	75	8245	0.46	ppbv		98
46) 4-Methyl-2-pentanone	5.112	43	10251	0.51	ppbv		93
47) trans-1,3-Dichloroprop...	5.132	75	8245	0.46	ppbv		92
48) Toluene	5.529	91	17163	0.48	ppbv		99
49) 1,1,2-Trichloroethane	5.666	97	5590	0.47	ppbv	#	96
50) 1,3-Dichloropropane	5.781	76	8273	0.47	ppbv	#	84
51) 2-Hexanone	5.789	43	12174	0.50	ppbv		92
52) Dibromochloromethane	5.994	129	9960	0.46	ppbv		99
53) 1,2-Dibromoethane	6.112	107	8447	0.46	ppbv	#	99

Data Path : C:\MassHunter\GCMS\1\data\2026\5-MAY\052926\
Data File : TQQ002415.D
Acq On : 30 May 2026 01:28 am
Operator : YR
Sample : SEQ-CAL4
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 07 13:40:12 2026
Quant Method : C:\MassHunter\GCMS\1\methods\QA4 01JUNE2026(updated070726).m
Quant Title : TO-15
QLast Update : Tue Jul 07 13:34:36 2026
Response via : Initial Calibration

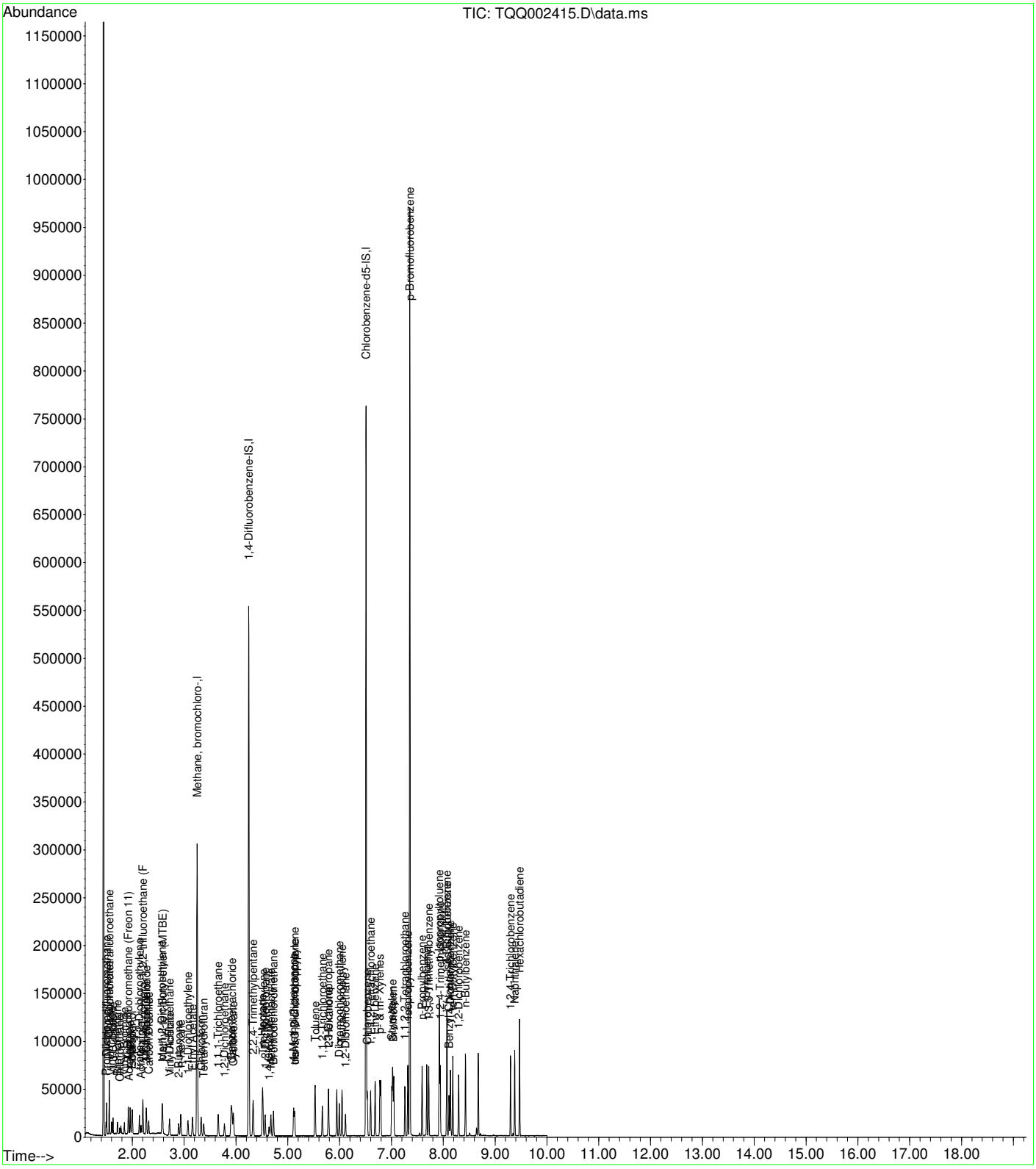
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
54) Tetrachloroethylene	6.047	166	7590	0.47	ppbv		95
56) Chlorobenzene	6.533	112	13107	0.47	ppbv		96
57) 1,1,1,2-Tetrachloroethane	6.597	131	7132	0.47	ppbv		96
58) Ethyl benzene	6.684	91	22093	0.47	ppbv		98
59) p- & m- Xylenes	6.777	91	18576	0.99	ppbv		98
60) Bromoform	7.030	173	9557	0.47	ppbv		99
61) Styrene	7.005	104	13391	0.47	ppbv		85
62) o-Xylene	7.019	91	19985	0.49	ppbv		91
63) 1,1,2,2-Tetrachloroethane	7.258	83	13105	0.49	ppbv		100
64) p-Bromofluorobenzene	7.354	95	181465	10.16	ppbv		97
65) Isopropylbenzene	7.315	105	25263	0.48	ppbv		98
66) n-Propylbenzene	7.591	91	30338	0.48	ppbv		98
67) p-Ethyltoluene	7.680	105	24814	0.48	ppbv		96
68) 1,3,5-Trimethylbenzene	7.719	105	20593	0.48	ppbv		98
69) tert-Butylbenzene	8.184	119	25285	0.47	ppbv	#	60
70) 1,2,4-Trimethylbenzene	7.940	105	20954	0.47	ppbv	#	32
71) 1,3-Dichlorobenzene	8.066	146	13603	0.47	ppbv		97
72) sec-Butylbenzene	8.071	105	30765	0.49	ppbv		99
73) 1,4-Dichlorobenzene	8.138	146	13720	0.47	ppbv		99
74) Benzyl Chloride	8.111	91	16931	0.44	ppbv		98
75) p-Isopropyltoluene	7.921	119	19879	0.48	ppbv	#	57
76) 1,2-Dichlorobenzene	8.294	146	13554	0.47	ppbv		98
77) n-Butylbenzene	8.428	91	25381	0.47	ppbv		99
78) 1,2,4-Trichlorobenzene	9.298	180	11944	0.42	ppbv		98
79) Naphthalene	9.377	128	31636	0.44	ppbv		100
80) Hexachlorobutadiene	9.471	225	10100	0.45	ppbv		89

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

Quantitation Report (QT Reviewed)

Data Path : C:\MassHunter\GCMS\1\data\2026\5-MAY\052926\
Data File : TQQ002415.D
Acq On : 30 May 2026 01:28 am
Operator : YR
Sample : SEQ-CAL4
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 07 13:40:12 2026
Quant Method : C:\MassHunter\GCMS\1\methods\QA4 01JUNE2026(updated070726).m
Quant Title : TO-15
QLast Update : Tue Jul 07 13:34:36 2026
Response via : Initial Calibration



Data Path : C:\MassHunter\GCMS\1\data\2026\5-MAY\052926\
Data File : TQQ002416.D
Acq On : 30 May 2026 02:09 am
Operator : YR
Sample : SEQ-CAL5
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 07 13:40:29 2026
Quant Method : C:\MassHunter\GCMS\1\methods\QA4 01JUNE2026(updated070726).m
Quant Title : TO-15
QLast Update : Tue Jul 07 13:34:36 2026
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Methane, bromochloro-	3.250	130	66310	10.00	ppbv	#	0.00
38) 1,4-Difluorobenzene-IS	4.246	114	256509	10.00	ppbv		0.00
55) Chlorobenzene-d5-IS	6.509	117	230094	10.00	ppbv		0.00
Target Compounds							Qvalue
2) Propylene	1.491	41	13039	2.36	ppbv		95
3) Dichlorodifluoromethane	1.503	85	46256	2.31	ppbv		99
4) 1,2-Dichlorotetrafluor...	1.554	85	42744	2.33	ppbv	#	84
5) Chloromethane	1.551	50	18246	2.29	ppbv		98
6) Chloroethane	1.756	64	8942	2.28	ppbv		100
7) 1,3-Butadiene	1.627	54	12452	2.29	ppbv		98
8) Bromomethane	1.712	94	14905	2.30	ppbv		99
9) Vinyl Chloride	1.599	62	16317	2.30	ppbv	#	83
10) Ethanol	1.988	45	31064	7.07	ppbv	#	1
11) Vinyl Bromide	1.845	106	16277	2.31	ppbv		99
12) Trichlorofluoromethane...	1.922	101	45328	2.31	ppbv		98
13) Acrolein	1.929	56	5455	2.40	ppbv	#	95
14) Acetone	1.956	58	11882	2.91	ppbv		77
15) Isopropanol	1.988	45	31064	2.49	ppbv		98
16) 1,1-Dichloroethylene	3.074	61	27691	2.44	ppbv	#	82
17) Acrylonitrile	2.165	53	16872	2.57	ppbv		98
18) 1,1,2-Trichloro-1,2,2-...	2.202	101	35374	2.33	ppbv		94
19) Methylene Chloride	2.273	49	20024	2.32	ppbv		96
20) 3-Chloropropene	2.268	41	21597	2.30	ppbv		97
21) Carbon Disulfide	2.315	76	47975	2.31	ppbv		99
22) trans-1,2-Dichloroethy...	2.134	61	27961	2.34	ppbv		88
23) Methyl-tert-Butyl-ethe...	2.585	73	54087	2.32	ppbv		98
24) 1,1-Dichloroethane	2.716	63	34948	2.33	ppbv		99
25) Vinyl Acetate	2.724	43	16253	2.34	ppbv		90
26) 2-Butanone	2.891	72	10714	2.28	ppbv	#	7
27) n-Hexane	2.937	57	30978	2.34	ppbv		97
28) cis-1,2-Dichloroethylene	2.574	61	26185	2.28	ppbv		87
29) Ethyl Acetate	3.159	43	65656	2.29	ppbv		97
30) Chloroform	3.327	83	23077	1.35	ppbv	#	47
31) Tetrahydrofuran	3.373	42	21818	2.35	ppbv		94
32) 1,1,1-Trichloroethane	3.657	97	42805	2.31	ppbv		99
33) 1,2-Dichloroethane	3.779	62	28218	2.31	ppbv		96
34) Cyclohexane	3.948	56	33087	2.28	ppbv		92
35) Benzene	3.906	78	65827	2.24	ppbv		95
36) Carbon Tetrachloride	3.924	117	43649	2.44	ppbv		98
37) 2,2,4-Trimethylpentane	4.330	57	100125	2.26	ppbv		99
39) n-Heptane	4.511	43	36211	2.37	ppbv		88
40) 1,2-Dichloropropane	4.564	63	23101	2.34	ppbv	#	82
41) Trichloroethylene	4.522	130	28895	2.39	ppbv		98
42) Bromodichloromethane	4.723	83	47869	2.34	ppbv		99
43) 1,4-Dioxane	4.633	88	17398	2.50	ppbv		95
44) Methyl Methacrylate	4.673	41	28049	2.31	ppbv		87
45) cis-1,3-Dichloropropylene	5.131	75	40290	2.30	ppbv		84
46) 4-Methyl-2-pentanone	5.110	43	45139	2.29	ppbv		91
47) trans-1,3-Dichloroprop...	5.131	75	40290	2.30	ppbv	#	79
48) Toluene	5.529	91	81334	2.32	ppbv		100
49) 1,1,2-Trichloroethane	5.670	97	27188	2.36	ppbv		98
50) 1,3-Dichloropropane	5.781	76	40347	2.35	ppbv	#	87
51) 2-Hexanone	5.787	43	49842	2.11	ppbv		92
52) Dibromochloromethane	5.993	129	49656	2.35	ppbv		98
53) 1,2-Dibromoethane	6.114	107	42157	2.36	ppbv		98

Data Path : C:\MassHunter\GCMS\1\data\2026\5-MAY\052926\
Data File : TQQ002416.D
Acq On : 30 May 2026 02:09 am
Operator : YR
Sample : SEQ-CAL5
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 07 13:40:29 2026
Quant Method : C:\MassHunter\GCMS\1\methods\QA4 01JUNE2026(updated070726).m
Quant Title : TO-15
QLast Update : Tue Jul 07 13:34:36 2026
Response via : Initial Calibration

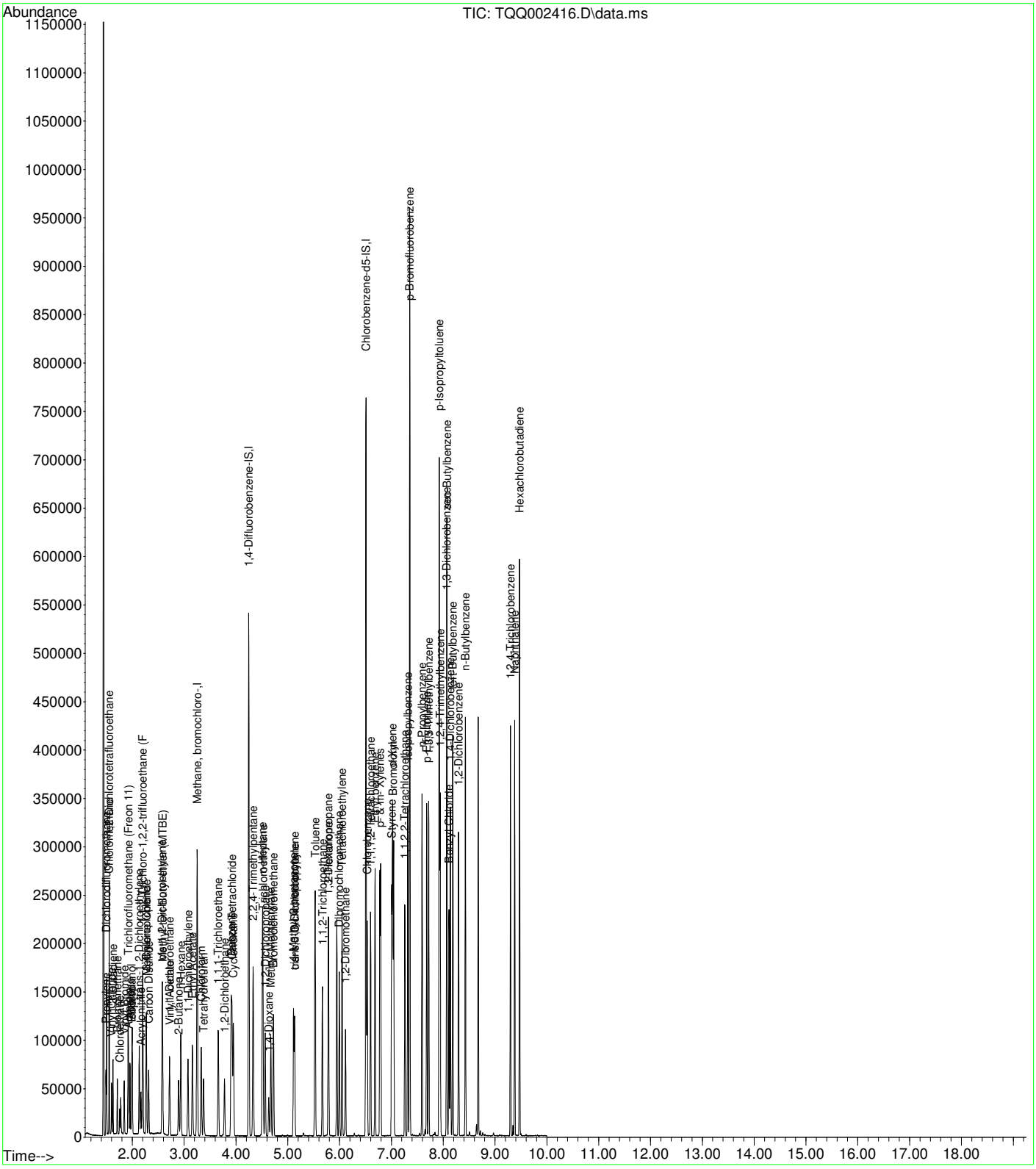
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
54) Tetrachloroethylene	6.047	166	37103	2.36	ppbv	95
56) Chlorobenzene	6.533	112	64055	2.33	ppbv	97
57) 1,1,1,2-Tetrachloroethane	6.598	131	34491	2.30	ppbv	94
58) Ethyl benzene	6.685	91	107545	2.32	ppbv	98
59) p- & m- Xylenes	6.780	91	82468	4.41	ppbv	97
60) Bromoform	7.027	173	47877	2.36	ppbv	99
61) Styrene	7.005	104	66266	2.33	ppbv	84
62) o-Xylene	7.019	91	95746	2.36	ppbv	90
63) 1,1,2,2-Tetrachloroethane	7.260	83	63291	2.37	ppbv	99
64) p-Bromofluorobenzene	7.354	95	177273	9.98	ppbv	96
65) Isopropylbenzene	7.317	105	121735	2.33	ppbv	98
66) n-Propylbenzene	7.591	91	148786	2.35	ppbv	98
67) p-Ethyltoluene	7.682	105	119929	2.32	ppbv	98
68) 1,3,5-Trimethylbenzene	7.720	105	100635	2.35	ppbv	100
69) tert-Butylbenzene	8.182	119	127999	2.38	ppbv #	59
70) 1,2,4-Trimethylbenzene	7.940	105	103802	2.36	ppbv #	24
71) 1,3-Dichlorobenzene	8.064	146	68813	2.40	ppbv	98
72) sec-Butylbenzene	8.071	105	149830	2.39	ppbv	99
73) 1,4-Dichlorobenzene	8.138	146	69473	2.38	ppbv	99
74) Benzyl Chloride	8.111	91	88067	2.28	ppbv	99
75) p-Isopropyltoluene	7.923	119	98347	2.41	ppbv #	58
76) 1,2-Dichlorobenzene	8.296	146	67424	2.35	ppbv	99
77) n-Butylbenzene	8.428	91	127413	2.35	ppbv	99
78) 1,2,4-Trichlorobenzene	9.296	180	61032	2.16	ppbv	97
79) Naphthalene	9.378	128	159203	2.21	ppbv	100
80) Hexachlorobutadiene	9.472	225	50338	2.26	ppbv	88

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

Quantitation Report (QT Reviewed)

Data Path : C:\MassHunter\GCMS\1\data\2026\5-MAY\052926\
Data File : TQQ002416.D
Acq On : 30 May 2026 02:09 am
Operator : YR
Sample : SEQ-CAL5
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 07 13:40:29 2026
Quant Method : C:\MassHunter\GCMS\1\methods\QA4 01JUNE2026(updated070726).m
Quant Title : TO-15
QLast Update : Tue Jul 07 13:34:36 2026
Response via : Initial Calibration



Data Path : C:\MassHunter\GCMS\1\data\2026\5-MAY\052926\
Data File : TQQ002417.D
Acq On : 30 May 2026 02:50 am
Operator : YR
Sample : SEQ-CAL6
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 07 13:40:47 2026
Quant Method : C:\MassHunter\GCMS\1\methods\QA4 01JUNE2026(updated070726).m
Quant Title : TO-15
QLast Update : Tue Jul 07 13:34:36 2026
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Methane, bromochloro-	3.255	130	66617	10.00	ppbv	#	0.00
38) 1,4-Difluorobenzene-IS	4.248	114	256895	10.00	ppbv		0.00
55) Chlorobenzene-d5-IS	6.511	117	231207	10.00	ppbv		0.00
Target Compounds							Qvalue
2) Propylene	1.491	41	25864	4.65	ppbv		95
3) Dichlorodifluoromethane	1.503	85	96937	4.82	ppbv		99
4) 1,2-Dichlorotetrafluor...	1.553	85	89124	4.83	ppbv	#	84
5) Chloromethane	1.551	50	37304	4.67	ppbv		99
6) Chloroethane	1.757	64	18638	4.73	ppbv		99
7) 1,3-Butadiene	1.625	54	25620	4.70	ppbv		97
8) Bromomethane	1.713	94	30940	4.76	ppbv		99
9) Vinyl Chloride	1.600	62	33640	4.72	ppbv	#	83
10) Ethanol	1.989	45	58889	13.33	ppbv	#	1
11) Vinyl Bromide	1.844	106	33983	4.79	ppbv		99
12) Trichlorofluoromethane...	1.921	101	94987	4.83	ppbv		98
13) Acrolein	1.930	56	10927	4.79	ppbv	#	91
14) Acetone	1.956	58	20482	5.00	ppbv		71
15) Isopropanol	1.989	45	58889	4.69	ppbv		98
16) 1,1-Dichloroethylene	3.078	61	56385	4.96	ppbv	#	82
17) Acrylonitrile	2.166	53	29273	4.44	ppbv		98
18) 1,1,2-Trichloro-1,2,2-...	2.202	101	73472	4.83	ppbv		94
19) Methylene Chloride	2.273	49	41303	4.76	ppbv		97
20) 3-Chloropropene	2.272	41	44244	4.69	ppbv		96
21) Carbon Disulfide	2.318	76	99547	4.77	ppbv		100
22) trans-1,2-Dichloroethy...	2.136	61	57440	4.78	ppbv		88
23) Methyl-tert-Butyl-ethe...	2.586	73	111229	4.74	ppbv		98
24) 1,1-Dichloroethane	2.720	63	72134	4.79	ppbv		99
25) Vinyl Acetate	2.726	43	30057	4.31	ppbv		97
26) 2-Butanone	2.893	72	21973	4.66	ppbv	#	5
27) n-Hexane	2.938	57	63221	4.75	ppbv		97
28) cis-1,2-Dichloroethylene	2.577	61	53989	4.68	ppbv		87
29) Ethyl Acetate	3.161	43	132478	4.60	ppbv		94
30) Chloroform	3.331	83	87355	5.07	ppbv	#	83
31) Tetrahydrofuran	3.374	42	44618	4.78	ppbv		94
32) 1,1,1-Trichloroethane	3.661	97	88859	4.77	ppbv		99
33) 1,2-Dichloroethane	3.781	62	58427	4.76	ppbv		97
34) Cyclohexane	3.953	56	67098	4.59	ppbv		93
35) Benzene	3.908	78	133328	4.52	ppbv		95
36) Carbon Tetrachloride	3.927	117	89878	5.00	ppbv		99
37) 2,2,4-Trimethylpentane	4.333	57	205326	4.60	ppbv		99
39) n-Heptane	4.513	43	73910	4.84	ppbv	#	88
40) 1,2-Dichloropropane	4.565	63	47342	4.78	ppbv	#	83
41) Trichloroethylene	4.524	130	59372	4.91	ppbv		98
42) Bromodichloromethane	4.727	83	99421	4.85	ppbv		99
43) 1,4-Dioxane	4.634	88	33110	4.75	ppbv	#	71
44) Methyl Methacrylate	4.676	41	57863	4.76	ppbv		88
45) cis-1,3-Dichloropropylene	5.132	75	88212	5.04	ppbv		81
46) 4-Methyl-2-pentanone	5.113	43	91436	4.64	ppbv		90
47) trans-1,3-Dichloroprop...	5.132	75	88212	5.04	ppbv	#	77
48) Toluene	5.531	91	165317	4.71	ppbv		100
49) 1,1,2-Trichloroethane	5.669	97	55450	4.80	ppbv		98
50) 1,3-Dichloropropane	5.782	76	83411	4.86	ppbv	#	88
51) 2-Hexanone	5.789	43	96666	4.09	ppbv		92
52) Dibromochloromethane	5.996	129	102499	4.84	ppbv		98
53) 1,2-Dibromoethane	6.116	107	86211	4.81	ppbv		99

Data Path : C:\MassHunter\GCMS\1\data\2026\5-MAY\052926\
Data File : TQQ002417.D
Acq On : 30 May 2026 02:50 am
Operator : YR
Sample : SEQ-CAL6
Misc :
ALS Vial : 1 Sample Multiplier: 1

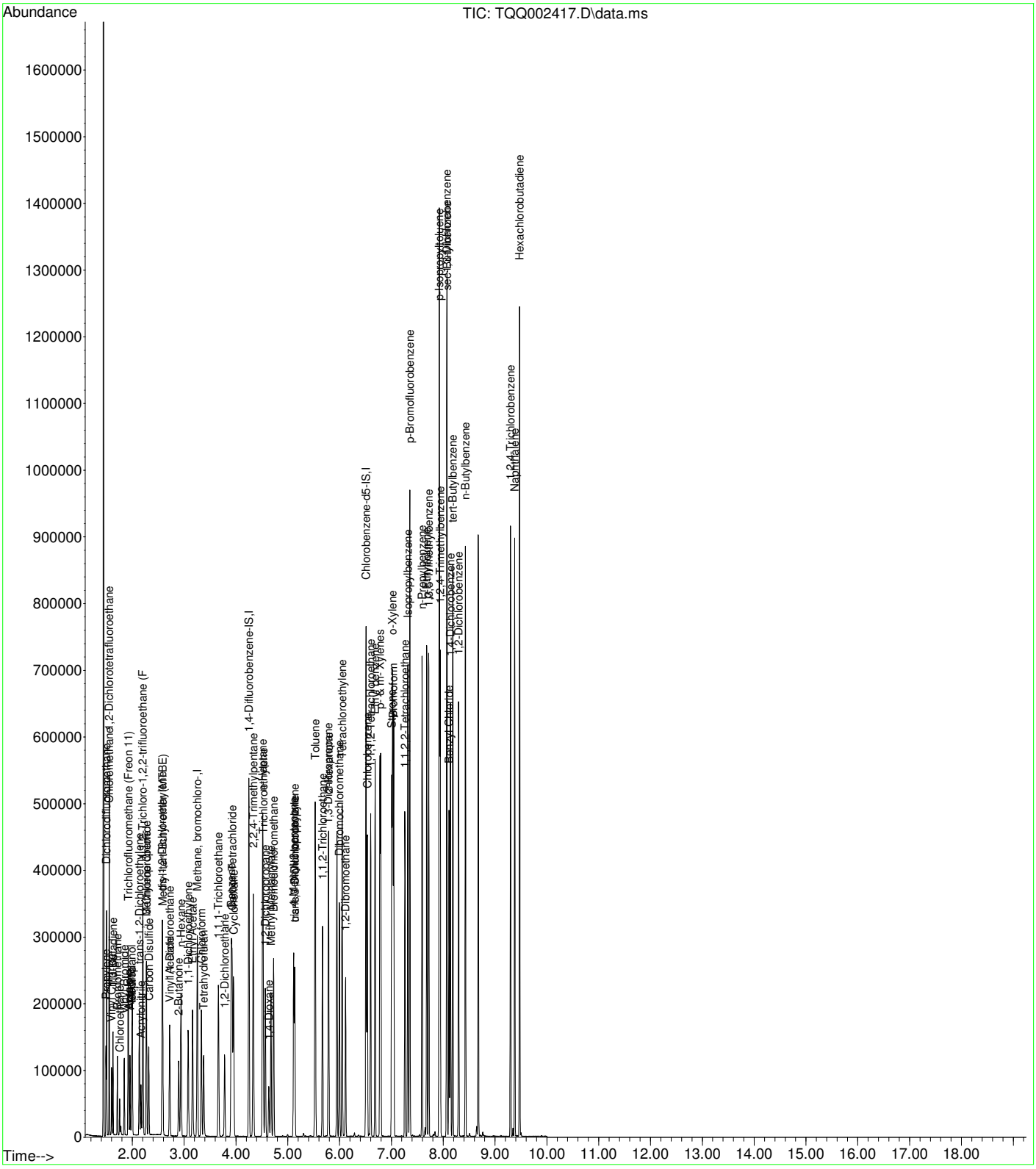
Quant Time: Jul 07 13:40:47 2026
Quant Method : C:\MassHunter\GCMS\1\methods\QA4 01JUNE2026(updated070726).m
Quant Title : TO-15
QLast Update : Tue Jul 07 13:34:36 2026
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
54) Tetrachloroethylene	6.049	166	76774	4.87	ppbv	96
56) Chlorobenzene	6.536	112	133234	4.83	ppbv	98
57) 1,1,1,2-Tetrachloroethane	6.600	131	72669	4.82	ppbv	96
58) Ethyl benzene	6.686	91	220330	4.73	ppbv	97
59) p- & m- Xylenes	6.778	91	172327	9.16	ppbv	98
60) Bromoform	7.030	173	100712	4.94	ppbv	99
61) Styrene	7.006	104	138278	4.84	ppbv	86
62) o-Xylene	7.021	91	195202	4.78	ppbv	91
63) 1,1,2,2-Tetrachloroethane	7.261	83	127041	4.74	ppbv	100
64) p-Bromofluorobenzene	7.355	95	178006	9.97	ppbv	96
65) Isopropylbenzene	7.317	105	249128	4.74	ppbv	99
66) n-Propylbenzene	7.593	91	305149	4.81	ppbv	98
67) p-Ethyltoluene	7.682	105	248495	4.78	ppbv	98
68) 1,3,5-Trimethylbenzene	7.720	105	207390	4.81	ppbv	98
69) tert-Butylbenzene	8.185	119	259142	4.80	ppbv #	60
70) 1,2,4-Trimethylbenzene	7.942	105	215466	4.88	ppbv #	24
71) 1,3-Dichlorobenzene	8.068	146	138288	4.81	ppbv	98
72) sec-Butylbenzene	8.072	105	306913	4.87	ppbv	98
73) 1,4-Dichlorobenzene	8.139	146	141369	4.82	ppbv	99
74) Benzyl Chloride	8.112	91	185937	4.79	ppbv	99
75) p-Isopropyltoluene	7.923	119	201991	4.93	ppbv #	58
76) 1,2-Dichlorobenzene	8.295	146	134969	4.68	ppbv	99
77) n-Butylbenzene	8.428	91	261433	4.80	ppbv	99
78) 1,2,4-Trichlorobenzene	9.298	180	131026	4.61	ppbv	97
79) Naphthalene	9.377	128	334701	4.62	ppbv	100
80) Hexachlorobutadiene	9.473	225	108273	4.85	ppbv	89

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

Data Path : C:\MassHunter\GCMS\1\data\2026\5-MAY\052926\
Data File : TQQ002417.D
Acq On : 30 May 2026 02:50 am
Operator : YR
Sample : SEQ-CAL6
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 07 13:40:47 2026
Quant Method : C:\MassHunter\GCMS\1\methods\QA4 01JUNE2026(updated070726).m
Quant Title : TO-15
QLast Update : Tue Jul 07 13:34:36 2026
Response via : Initial Calibration



Data Path : C:\MassHunter\GCMS\1\data\2026\5-MAY\052926\
Data File : TQQ002418.D
Acq On : 30 May 2026 03:29 am
Operator : YR
Sample : SEQ-CAL7
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 07 13:35:28 2026
Quant Method : C:\MassHunter\GCMS\1\methods\QA4 01JUNE2026(updated070726).m
Quant Title : TO-15
QLast Update : Tue Jul 07 12:57:28 2026
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Methane, bromochloro-	3.251	130	66133	10.00	ppbv	#	0.00
38) 1,4-Difluorobenzene-IS	4.248	114	257343	10.00	ppbv		0.00
55) Chlorobenzene-d5-IS	6.511	117	230065	10.00	ppbv		0.00
Target Compounds							Qvalue
2) Propylene	1.491	41	50646	9.18	ppbv		96
3) Dichlorodifluoromethane	1.503	85	191353	9.59	ppbv		99
4) 1,2-Dichlorotetrafluor...	1.553	85	175466	9.59	ppbv	#	84
5) Chloromethane	1.552	50	72906	9.19	ppbv		99
6) Chloroethane	1.756	64	36831	9.41	ppbv		99
7) 1,3-Butadiene	1.627	54	50578	9.34	ppbv		98
8) Bromomethane	1.712	94	61430	9.52	ppbv		98
9) Vinyl Chloride	1.599	62	66600	9.41	ppbv	#	83
10) Ethanol	1.986	45	113911	25.98	ppbv	#	1
11) Vinyl Bromide	1.845	106	66944	9.51	ppbv		99
12) Trichlorofluoromethane...	1.920	101	185163	9.47	ppbv		99
13) Acrolein	1.929	56	21264	9.39	ppbv		95
14) Acetone	1.954	58	37373	9.19	ppbv		72
15) Isopropanol	1.986	45	113911	9.14	ppbv		97
16) 1,1-Dichloroethylene	3.076	61	111218	9.85	ppbv	#	81
17) Acrylonitrile	2.166	53	57712	8.81	ppbv		98
18) 1,1,2-Trichloro-1,2,2-...	2.203	101	143508	9.49	ppbv		95
19) Methylene Chloride	2.271	49	80672	9.37	ppbv		97
20) 3-Chloropropene	2.269	41	86817	9.26	ppbv		96
21) Carbon Disulfide	2.316	76	195399	9.44	ppbv		100
22) trans-1,2-Dichloroethy...	2.135	61	113687	9.54	ppbv		88
23) Methyl-tert-Butyl-ethe...	2.583	73	218016	9.37	ppbv		98
24) 1,1-Dichloroethane	2.717	63	142342	9.52	ppbv		99
25) Vinyl Acetate	2.723	43	59857	8.65	ppbv		97
26) 2-Butanone	2.891	72	42905	9.16	ppbv	#	6
27) n-Hexane	2.938	57	123286	9.32	ppbv		96
28) cis-1,2-Dichloroethylene	2.575	61	106765	9.32	ppbv		87
29) Ethyl Acetate	3.159	43	259659	9.08	ppbv		97
30) Chloroform	3.331	83	173202	10.12	ppbv	#	83
31) Tetrahydrofuran	3.372	42	88049	9.49	ppbv		94
32) 1,1,1-Trichloroethane	3.659	97	175854	9.50	ppbv		98
33) 1,2-Dichloroethane	3.780	62	115386	9.47	ppbv		97
34) Cyclohexane	3.950	56	130433	8.99	ppbv		94
35) Benzene	3.908	78	259915	8.87	ppbv		95
36) Carbon Tetrachloride	3.925	117	178911	10.03	ppbv		98
37) 2,2,4-Trimethylpentane	4.331	57	403530	9.11	ppbv		99
39) n-Heptane	4.511	43	144600	9.44	ppbv	#	87
40) 1,2-Dichloropropane	4.566	63	92930	9.37	ppbv	#	82
41) Trichloroethylene	4.519	130	116207	9.60	ppbv		98
42) Bromodichloromethane	4.727	83	196303	9.55	ppbv		99
43) 1,4-Dioxane	4.631	88	65088	9.32	ppbv		94
44) Methyl Methacrylate	4.675	41	113296	9.30	ppbv		88
45) cis-1,3-Dichloropropylene	5.134	75	172712	9.85	ppbv		81
46) 4-Methyl-2-pentanone	5.115	43	177769	9.00	ppbv		91
47) trans-1,3-Dichloroprop...	5.134	75	172712	9.85	ppbv	#	76
48) Toluene	5.531	91	323909	9.21	ppbv		100
49) 1,1,2-Trichloroethane	5.668	97	108843	9.41	ppbv		98
50) 1,3-Dichloropropane	5.782	76	163391	9.50	ppbv	#	88
51) 2-Hexanone	5.789	43	189737	8.02	ppbv		92
52) Dibromochloromethane	5.996	129	204102	9.61	ppbv		98
53) 1,2-Dibromoethane	6.115	107	170984	9.53	ppbv		97

Data Path : C:\MassHunter\GCMS\1\data\2026\5-MAY\052926\
Data File : TQQ002418.D
Acq On : 30 May 2026 03:29 am
Operator : YR
Sample : SEQ-CAL7
Misc :
ALS Vial : 1 Sample Multiplier: 1

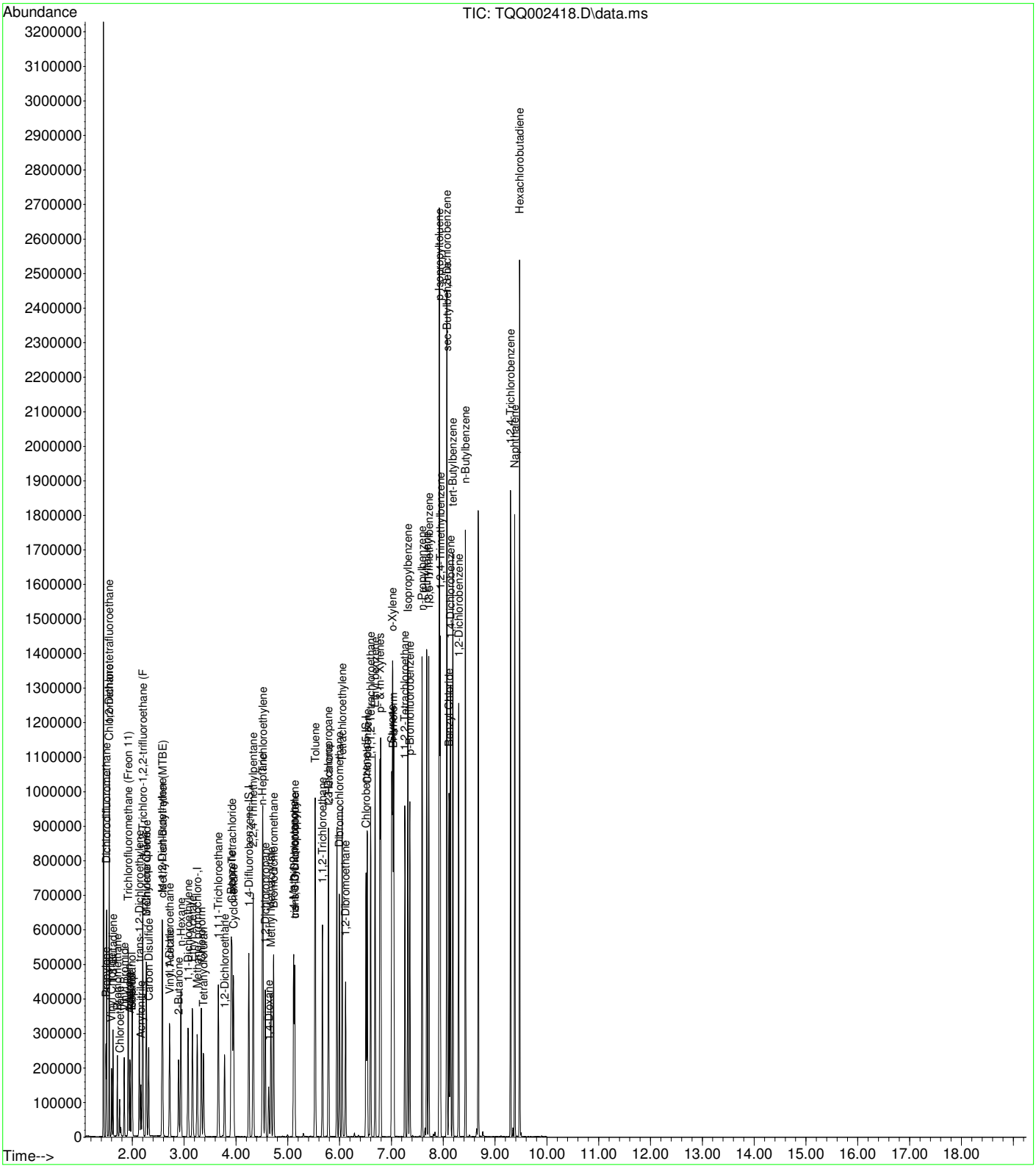
Quant Time: Jul 07 13:35:28 2026
Quant Method : C:\MassHunter\GCMS\1\methods\QA4 01JUNE2026(updated070726).m
Quant Title : TO-15
QLast Update : Tue Jul 07 12:57:28 2026
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
54) Tetrachloroethylene	6.049	166	150701	9.54	ppbv	96
56) Chlorobenzene	6.535	112	261003	9.50	ppbv	98
57) 1,1,1,2-Tetrachloroethane	6.600	131	143625	9.57	ppbv	95
58) Ethyl benzene	6.686	91	432066	9.32	ppbv	98
59) p- & m- Xylenes	6.780	91	338269	18.08	ppbv	97
60) Bromoform	7.032	173	197207	9.72	ppbv	98
61) Styrene	7.005	104	274072	9.64	ppbv	86
62) o-Xylene	7.021	91	381096	9.39	ppbv	90
63) 1,1,2,2-Tetrachloroethane	7.260	83	246785	9.25	ppbv	99
64) p-Bromofluorobenzene	7.355	95	176636	9.94	ppbv	95
65) Isopropylbenzene	7.317	105	483294	9.24	ppbv	99
66) n-Propylbenzene	7.593	91	597360	9.46	ppbv	99
67) p-Ethyltoluene	7.682	105	488805	9.44	ppbv	99
68) 1,3,5-Trimethylbenzene	7.722	105	409554	9.56	ppbv	99
69) tert-Butylbenzene	8.184	119	517300	9.64	ppbv #	59
70) 1,2,4-Trimethylbenzene	7.943	105	417932	9.52	ppbv #	24
71) 1,3-Dichlorobenzene	8.067	146	272295	9.52	ppbv	98
72) sec-Butylbenzene	8.074	105	602627	9.61	ppbv	99
73) 1,4-Dichlorobenzene	8.139	146	280413	9.61	ppbv	100
74) Benzyl Chloride	8.112	91	377284	9.77	ppbv	99
75) p-Isopropyltoluene	7.922	119	385777	9.46	ppbv #	57
76) 1,2-Dichlorobenzene	8.297	146	269553	9.39	ppbv	99
77) n-Butylbenzene	8.428	91	517874	9.55	ppbv	99
78) 1,2,4-Trichlorobenzene	9.299	180	269963	9.55	ppbv	97
79) Naphthalene	9.379	128	676945	9.39	ppbv	100
80) Hexachlorobutadiene	9.473	225	215358	9.69	ppbv	89

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

Data Path : C:\MassHunter\GCMS\1\data\2026\5-MAY\052926\
Data File : TQQ002418.D
Acq On : 30 May 2026 03:29 am
Operator : YR
Sample : SEQ-CAL7
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 07 13:35:28 2026
Quant Method : C:\MassHunter\GCMS\1\methods\QA4 01JUNE2026(updated070726).m
Quant Title : TO-15
QLast Update : Tue Jul 07 12:57:28 2026
Response via : Initial Calibration



Data Path : C:\MassHunter\GCMS\1\data\2026\5-MAY\052926\
Data File : TQQ002419.D
Acq On : 30 May 2026 04:09 am
Operator : YR
Sample : SEQ-CAL8
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 07 13:41:13 2026
Quant Method : C:\MassHunter\GCMS\1\methods\QA4 01JUNE2026(updated070726).m
Quant Title : TO-15
QLast Update : Tue Jul 07 13:34:36 2026
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Methane, bromochloro-	3.256	130	65331	10.00	ppbv	#	0.00
38) 1,4-Difluorobenzene-IS	4.251	114	253735	10.00	ppbv		0.00
55) Chlorobenzene-d5-IS	6.511	117	229032	10.00	ppbv		0.00
Target Compounds							Qvalue
2) Propylene	1.490	41	74729	13.71	ppbv		95
3) Dichlorodifluoromethane	1.504	85	276659	14.03	ppbv		98
4) 1,2-Dichlorotetrafluor...	1.554	85	255322	14.12	ppbv	#	84
5) Chloromethane	1.551	50	107785	13.75	ppbv		99
6) Chloroethane	1.756	64	54151	14.01	ppbv		100
7) 1,3-Butadiene	1.627	54	74950	14.02	ppbv		98
8) Bromomethane	1.712	94	90233	14.15	ppbv		99
9) Vinyl Chloride	1.600	62	98576	14.10	ppbv	#	83
10) Ethanol	1.988	45	166557	38.45	ppbv	#	1
11) Vinyl Bromide	1.844	106	99425	14.29	ppbv		99
12) Trichlorofluoromethane...	1.922	101	275207	14.26	ppbv		99
13) Acrolein	1.930	56	31097	13.89	ppbv		95
14) Acetone	1.955	58	52835	13.15	ppbv		76
15) Isopropanol	1.988	45	166557	13.53	ppbv		96
16) 1,1-Dichloroethylene	3.080	61	164515	14.74	ppbv	#	82
17) Acrylonitrile	2.166	53	84913	13.12	ppbv		97
18) 1,1,2-Trichloro-1,2,2-...	2.202	101	213156	14.27	ppbv		95
19) Methylene Chloride	2.272	49	118967	13.98	ppbv		97
20) 3-Chloropropene	2.269	41	128758	13.91	ppbv		97
21) Carbon Disulfide	2.317	76	287267	14.04	ppbv		100
22) trans-1,2-Dichloroethy...	2.135	61	167899	14.26	ppbv		88
23) Methyl-tert-Butyl-ethe...	2.585	73	324307	14.10	ppbv		98
24) 1,1-Dichloroethane	2.721	63	209457	14.18	ppbv		99
25) Vinyl Acetate	2.728	43	94498	13.83	ppbv		96
26) 2-Butanone	2.894	72	64286	13.90	ppbv	#	5
27) n-Hexane	2.941	57	183502	14.05	ppbv		97
28) cis-1,2-Dichloroethylene	2.577	61	157795	13.94	ppbv		87
29) Ethyl Acetate	3.162	43	386030	13.67	ppbv		97
30) Chloroform	3.333	83	254955	15.09	ppbv	#	83
31) Tetrahydrofuran	3.376	42	130098	14.20	ppbv		93
32) 1,1,1-Trichloroethane	3.662	97	258875	14.16	ppbv		99
33) 1,2-Dichloroethane	3.782	62	171103	14.21	ppbv		96
34) Cyclohexane	3.955	56	193702	13.52	ppbv		93
35) Benzene	3.912	78	383730	13.25	ppbv		95
36) Carbon Tetrachloride	3.928	117	266400	15.12	ppbv		98
37) 2,2,4-Trimethylpentane	4.335	57	593040	13.56	ppbv		99
39) n-Heptane	4.513	43	212873	14.10	ppbv	#	87
40) 1,2-Dichloropropane	4.569	63	138250	14.13	ppbv	#	82
41) Trichloroethylene	4.525	130	173026	14.49	ppbv		99
42) Bromodichloromethane	4.729	83	290371	14.33	ppbv		99
43) 1,4-Dioxane	4.635	88	95512	13.87	ppbv		94
44) Methyl Methacrylate	4.678	41	169859	14.15	ppbv		89
45) cis-1,3-Dichloropropylene	5.137	75	245812	14.21	ppbv		93
46) 4-Methyl-2-pentanone	5.115	43	271305	13.93	ppbv		90
47) trans-1,3-Dichloroprop...	5.137	75	245812	14.21	ppbv		88
48) Toluene	5.534	91	476924	13.75	ppbv		100
49) 1,1,2-Trichloroethane	5.673	97	164034	14.39	ppbv		98
50) 1,3-Dichloropropane	5.786	76	240373	14.18	ppbv	#	88
51) 2-Hexanone	5.791	43	276478	11.85	ppbv		92
52) Dibromochloromethane	5.998	129	300257	14.34	ppbv		100
53) 1,2-Dibromoethane	6.117	107	253381	14.32	ppbv		99

Data Path : C:\MassHunter\GCMS\1\data\2026\5-MAY\052926\
Data File : TQQ002419.D
Acq On : 30 May 2026 04:09 am
Operator : YR
Sample : SEQ-CAL8
Misc :
ALS Vial : 1 Sample Multiplier: 1

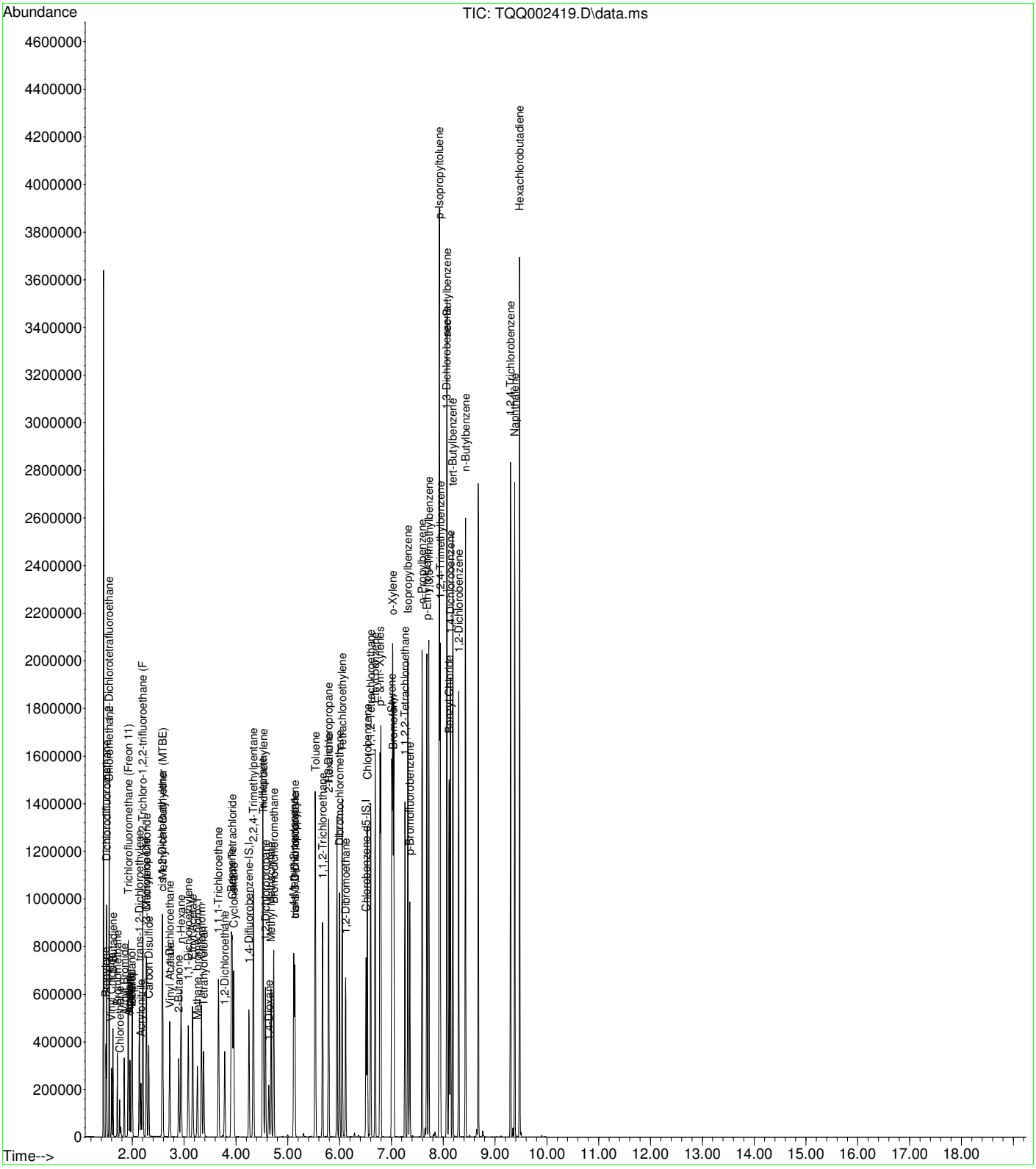
Quant Time: Jul 07 13:41:13 2026
Quant Method : C:\MassHunter\GCMS\1\methods\QA4 01JUNE2026(updated070726).m
Quant Title : TO-15
QLast Update : Tue Jul 07 13:34:36 2026
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
54) Tetrachloroethylene	6.050	166	225139	14.45	ppbv	95
56) Chlorobenzene	6.536	112	390403	14.27	ppbv	98
57) 1,1,1,2-Tetrachloroethane	6.600	131	210589	14.09	ppbv	94
58) Ethyl benzene	6.688	91	645543	13.99	ppbv	98
59) p- & m- Xylenes	6.782	91	558689	29.99	ppbv	97
60) Bromoform	7.034	173	285708	14.14	ppbv	98
61) Styrene	7.008	104	404558	14.30	ppbv	86
62) o-Xylene	7.022	91	561213	13.89	ppbv	90
63) 1,1,2,2-Tetrachloroethane	7.261	83	366766	13.82	ppbv	100
64) p-Bromofluorobenzene	7.355	95	174632	9.88	ppbv	94
65) Isopropylbenzene	7.317	105	719612	13.81	ppbv	99
66) n-Propylbenzene	7.593	91	879588	13.98	ppbv	99
67) p-Ethyltoluene	7.685	105	717297	13.91	ppbv	99
68) 1,3,5-Trimethylbenzene	7.722	105	611665	14.33	ppbv	99
69) tert-Butylbenzene	8.186	119	764794	14.31	ppbv #	60
70) 1,2,4-Trimethylbenzene	7.943	105	618587	14.15	ppbv #	27
71) 1,3-Dichlorobenzene	8.066	146	405582	14.24	ppbv	98
72) sec-Butylbenzene	8.074	105	878298	14.07	ppbv	98
73) 1,4-Dichlorobenzene	8.141	146	417731	14.38	ppbv	100
74) Benzyl Chloride	8.114	91	561487	14.61	ppbv	99
75) p-Isopropyltoluene	7.923	119	572546	14.10	ppbv #	58
76) 1,2-Dichlorobenzene	8.299	146	399044	13.96	ppbv	99
77) n-Butylbenzene	8.429	91	768478	14.24	ppbv	99
78) 1,2,4-Trichlorobenzene	9.298	180	415635	14.77	ppbv	97
79) Naphthalene	9.379	128	1031607	14.38	ppbv	99
80) Hexachlorobutadiene	9.473	225	327136	14.78	ppbv	88

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

Data Path : C:\MassHunter\GCMS\1\data\2026\5-MAY\052926\
Data File : TQQ002419.D
Acq On : 30 May 2026 04:09 am
Operator : YR
Sample : SEQ-CAL8
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 07 13:41:13 2026
Quant Method : C:\MassHunter\GCMS\1\methods\QA4 01JUNE2026(updated070726).m
Quant Title : TO-15
QLast Update : Tue Jul 07 13:34:36 2026
Response via : Initial Calibration



Data Path : C:\MassHunter\GCMS\1\data\2026\5-MAY\052926\
Data File : TQQ002420.D
Acq On : 30 May 2026 04:44 am
Operator : YR
Sample : SEQ-CAL9
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 07 13:41:33 2026
Quant Method : C:\MassHunter\GCMS\1\methods\QA4 01JUNE2026(updated070726).m
Quant Title : TO-15
QLast Update : Tue Jul 07 13:34:36 2026
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Methane, bromochloro-	3.232	130	34583	10.00	ppbv		#-0.02
38) 1,4-Difluorobenzene-IS	4.233	114	254962	10.00	ppbv		-0.02
55) Chlorobenzene-d5-IS	6.504	117	228358	10.00	ppbv		0.00
Target Compounds							Qvalue
2) Propylene	1.491	41	98614	34.19	ppbv		96
3) Dichlorodifluoromethane	1.503	85	363266	34.81	ppbv		98
4) 1,2-Dichlorotetrafluor...	1.554	85	331869	34.67	ppbv	#	84
5) Chloromethane	1.551	50	140453	33.85	ppbv		99
6) Chloroethane	1.754	64	70971	34.69	ppbv		100
7) 1,3-Butadiene	1.625	54	97708	34.52	ppbv		98
8) Bromomethane	1.709	94	118173	35.01	ppbv		99
9) Vinyl Chloride	1.599	62	129089	34.88	ppbv	#	83
10) Ethanol	1.981	45	219612	95.78	ppbv	#	1
11) Vinyl Bromide	1.841	106	130496	35.44	ppbv		99
12) Trichlorofluoromethane...	1.916	101	364072	35.63	ppbv		98
13) Acrolein	1.924	56	40648	34.31	ppbv		94
14) Acetone	1.949	58	70462	33.13	ppbv		72
15) Isopropanol	1.981	45	219612	33.71	ppbv		97
16) 1,1-Dichloroethylene	3.057	61	215027	36.40	ppbv	#	81
17) Acrylonitrile	2.158	53	110610	32.29	ppbv		97
18) 1,1,2-Trichloro-1,2,2-...	2.194	101	276426	34.97	ppbv		95
19) Methylene Chloride	2.262	49	155599	34.55	ppbv		97
20) 3-Chloropropene	2.261	41	167446	34.17	ppbv		96
21) Carbon Disulfide	2.306	76	376961	34.81	ppbv		100
22) trans-1,2-Dichloroethy...	2.128	61	218688	35.09	ppbv		88
23) Methyl-tert-Butyl-ethe...	2.570	73	423470	34.79	ppbv		98
24) 1,1-Dichloroethane	2.704	63	273462	34.98	ppbv		99
25) Vinyl Acetate	2.710	43	129024	35.67	ppbv		96
26) 2-Butanone	2.876	72	84663	34.58	ppbv	#	4
27) n-Hexane	2.919	57	238662	34.52	ppbv		97
28) cis-1,2-Dichloroethylene	2.561	61	205652	34.32	ppbv		87
29) Ethyl Acetate	3.141	43	501720	33.55	ppbv		97
30) Chloroform	3.312	83	336847	37.65	ppbv	#	83
31) Tetrahydrofuran	3.354	42	169650	34.98	ppbv		93
32) 1,1,1-Trichloroethane	3.642	97	339029	35.04	ppbv		99
33) 1,2-Dichloroethane	3.763	62	223786	35.11	ppbv		96
34) Cyclohexane	3.936	56	252961	33.36	ppbv		93
35) Benzene	3.891	78	497647	32.46	ppbv		95
36) Carbon Tetrachloride	3.909	117	345408	37.03	ppbv		99
37) 2,2,4-Trimethylpentane	4.319	57	773726	33.42	ppbv		99
39) n-Heptane	4.498	43	278589	18.37	ppbv	#	88
40) 1,2-Dichloropropane	4.553	63	182344	18.55	ppbv	#	81
41) Trichloroethylene	4.509	130	223218	18.61	ppbv		97
42) Bromodichloromethane	4.712	83	378270	18.58	ppbv		99
43) 1,4-Dioxane	4.618	88	125426	18.13	ppbv		94
44) Methyl Methacrylate	4.662	41	221589	18.37	ppbv		88
45) cis-1,3-Dichloropropylene	5.124	75	323606	18.62	ppbv		90
46) 4-Methyl-2-pentanone	5.101	43	320450	16.37	ppbv		91
47) trans-1,3-Dichloroprop...	5.124	75	323606	18.62	ppbv	#	85
48) Toluene	5.521	91	630099	18.08	ppbv		100
49) 1,1,2-Trichloroethane	5.660	97	211691	18.48	ppbv		98
50) 1,3-Dichloropropane	5.776	76	314270	18.45	ppbv	#	88
51) 2-Hexanone	5.781	43	363858	15.52	ppbv		92
52) Dibromochloromethane	5.988	129	397172	18.88	ppbv		99
53) 1,2-Dibromoethane	6.108	107	333281	18.75	ppbv		98

Data Path : C:\MassHunter\GCMS\1\data\2026\5-MAY\052926\
Data File : TQQ002420.D
Acq On : 30 May 2026 04:44 am
Operator : YR
Sample : SEQ-CAL9
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 07 13:41:33 2026
Quant Method : C:\MassHunter\GCMS\1\methods\QA4 01JUNE2026(updated070726).m
Quant Title : TO-15
QLast Update : Tue Jul 07 13:34:36 2026
Response via : Initial Calibration

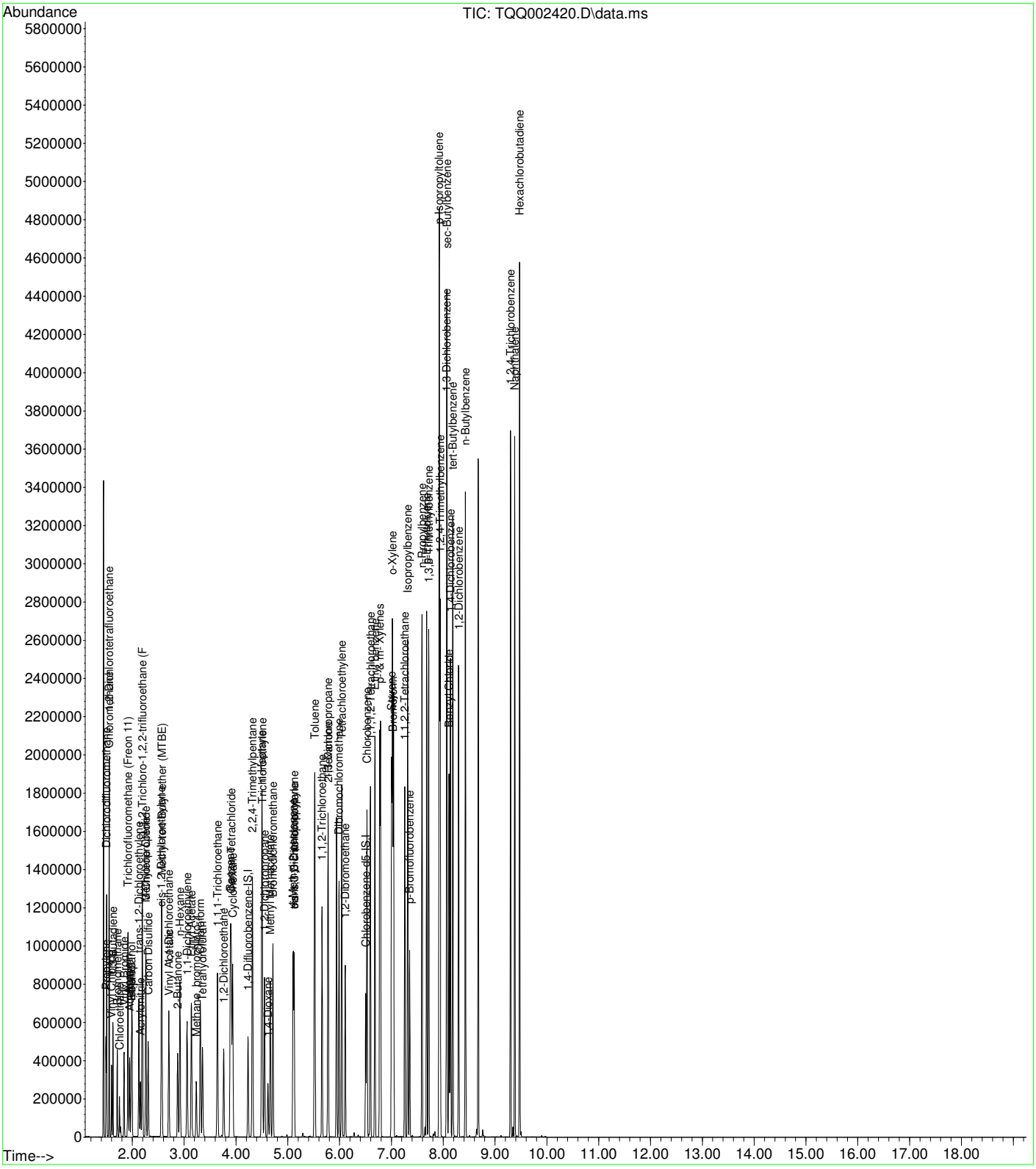
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
54) Tetrachloroethylene	6.041	166	292555	18.69	ppbv	96
56) Chlorobenzene	6.530	112	508007	18.63	ppbv	98
57) 1,1,1,2-Tetrachloroethane	6.595	131	280630	18.84	ppbv	96
58) Ethyl benzene	6.683	91	839341	18.24	ppbv	98
59) p- & m- Xylenes	6.775	91	679085	36.56	ppbv	95
60) Bromoform	7.029	173	379779	18.85	ppbv	99
61) Styrene	7.003	104	528648	18.74	ppbv	85
62) o-Xylene	7.019	91	718100	17.82	ppbv	90
63) 1,1,2,2-Tetrachloroethane	7.258	83	481200	18.18	ppbv	100
64) p-Bromofluorobenzene	7.352	95	176340	10.00	ppbv	94
65) Isopropylbenzene	7.314	105	937006	18.04	ppbv	99
66) n-Propylbenzene	7.591	91	1152155	18.37	ppbv	98
67) p-Ethyltoluene	7.680	105	941189	18.31	ppbv	99
68) 1,3,5-Trimethylbenzene	7.720	105	799512	18.79	ppbv	99
69) tert-Butylbenzene	8.184	119	997059	18.71	ppbv #	59
70) 1,2,4-Trimethylbenzene	7.942	105	798590	18.32	ppbv #	32
71) 1,3-Dichlorobenzene	8.064	146	522559	18.40	ppbv	98
72) sec-Butylbenzene	8.071	105	1141100	18.33	ppbv	98
73) 1,4-Dichlorobenzene	8.139	146	546780	18.88	ppbv	100
74) Benzyl Chloride	8.111	91	734547	19.17	ppbv	99
75) p-Isopropyltoluene	7.921	119	733264	18.11	ppbv #	57
76) 1,2-Dichlorobenzene	8.297	146	525213	18.43	ppbv	98
77) n-Butylbenzene	8.428	91	1007393	18.72	ppbv	99
78) 1,2,4-Trichlorobenzene	9.298	180	548529	19.54	ppbv	98
79) Naphthalene	9.379	128	1374416	19.22	ppbv	99
80) Hexachlorobutadiene	9.473	225	427815	19.39	ppbv	88

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

Quantitation Report (QT Reviewed)

Data Path : C:\MassHunter\GCMS\1\data\2026\5-MAY\052926\
Data File : TQQ002420.D
Acq On : 30 May 2026 04:44 am
Operator : YR
Sample : SEQ-CAL9
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 07 13:41:33 2026
Quant Method : C:\MassHunter\GCMS\1\methods\QA4 01JUNE2026(updated070726).m
Quant Title : TO-15
QLast Update : Tue Jul 07 13:34:36 2026
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MassHunter\GCMS\1\data\2026\5-MAY\052926\
Data File : TQQ002421.D
Acq On : 30 May 2026 05:19 am
Operator : YR
Sample : SEQ-CALA
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 07 13:41:45 2026
Quant Method : C:\MassHunter\GCMS\1\methods\QA4 01JUNE2026(updated070726).m
Quant Title : TO-15
QLast Update : Tue Jul 07 13:34:36 2026
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Methane, bromochloro-	3.238	130	65342	10.00	ppbv		#-0.01
38) 1,4-Difluorobenzene-IS	4.233	114	254132	10.00	ppbv		-0.02
55) Chlorobenzene-d5-IS	6.506	117	229816	10.00	ppbv		0.00
Target Compounds							Qvalue
2) Propylene	1.491	41	145239	26.65	ppbv		96
3) Dichlorodifluoromethane	1.503	85	531948	26.97	ppbv		98
4) 1,2-Dichlorotetrafluor...	1.553	85	485530	26.85	ppbv	#	84
5) Chloromethane	1.551	50	203975	26.02	ppbv		99
6) Chloroethane	1.754	64	105236	27.22	ppbv		99
7) 1,3-Butadiene	1.625	54	144709	27.06	ppbv		98
8) Bromomethane	1.710	94	173778	27.25	ppbv		99
9) Vinyl Chloride	1.599	62	191926	27.44	ppbv	#	83
10) Ethanol	1.981	45	320689	74.03	ppbv	#	1
11) Vinyl Bromide	1.841	106	191569	27.53	ppbv		99
12) Trichlorofluoromethane...	1.915	101	528857	27.39	ppbv		99
13) Acrolein	1.925	56	60065	26.83	ppbv		94
14) Acetone	1.949	58	103722	25.81	ppbv		70
15) Isopropanol	1.981	45	320689	26.05	ppbv		97
16) 1,1-Dichloroethylene	3.058	61	315388	28.26	ppbv	#	81
17) Acrylonitrile	2.158	53	163294	25.23	ppbv		98
18) 1,1,2-Trichloro-1,2,2-...	2.194	101	405109	27.13	ppbv		96
19) Methylene Chloride	2.263	49	226708	26.64	ppbv		96
20) 3-Chloropropene	2.259	41	246609	26.63	ppbv		97
21) Carbon Disulfide	2.306	76	549731	26.87	ppbv		100
22) trans-1,2-Dichloroethy...	2.128	61	321315	27.29	ppbv		88
23) Methyl-tert-Butyl-ethe...	2.571	73	621490	27.03	ppbv		97
24) 1,1-Dichloroethane	2.705	63	402378	27.24	ppbv		99
25) Vinyl Acetate	2.711	43	200833	29.38	ppbv		97
26) 2-Butanone	2.877	72	125158	27.06	ppbv	#	3
27) n-Hexane	2.919	57	351093	26.88	ppbv		97
28) cis-1,2-Dichloroethylene	2.563	61	301157	26.60	ppbv		87
29) Ethyl Acetate	3.142	43	740901	26.22	ppbv		97
30) Chloroform	3.314	83	489345	28.95	ppbv	#	83
31) Tetrahydrofuran	3.355	42	249132	27.19	ppbv		94
32) 1,1,1-Trichloroethane	3.645	97	500031	27.35	ppbv		99
33) 1,2-Dichloroethane	3.764	62	328271	27.26	ppbv		96
34) Cyclohexane	3.937	56	371816	25.95	ppbv		93
35) Benzene	3.892	78	731650	25.26	ppbv		95
36) Carbon Tetrachloride	3.909	117	507944	28.82	ppbv		98
37) 2,2,4-Trimethylpentane	4.318	57	1128716	25.80	ppbv		99
39) n-Heptane	4.499	43	406945	26.91	ppbv	#	88
40) 1,2-Dichloropropane	4.553	63	263948	26.94	ppbv	#	81
41) Trichloroethylene	4.511	130	323948	27.10	ppbv		98
42) Bromodichloromethane	4.715	83	552265	27.21	ppbv		99
43) 1,4-Dioxane	4.619	88	182908	26.53	ppbv		95
44) Methyl Methacrylate	4.664	41	324372	26.98	ppbv		88
45) cis-1,3-Dichloropropylene	5.124	75	472696	27.29	ppbv		89
46) 4-Methyl-2-pentanone	5.105	43	461407	23.65	ppbv		90
47) trans-1,3-Dichloroprop...	5.124	75	472696	27.29	ppbv	#	84
48) Toluene	5.524	91	897886	25.84	ppbv		99
49) 1,1,2-Trichloroethane	5.663	97	312398	27.36	ppbv		98
50) 1,3-Dichloropropane	5.776	76	456587	26.90	ppbv	#	88
51) 2-Hexanone	5.782	43	523661	22.41	ppbv		92
52) Dibromochloromethane	5.991	129	569902	27.18	ppbv		99
53) 1,2-Dibromoethane	6.109	107	480632	27.13	ppbv		98

Data Path : C:\MassHunter\GCMS\1\data\2026\5-MAY\052926\
Data File : TQQ002421.D
Acq On : 30 May 2026 05:19 am
Operator : YR
Sample : SEQ-CALA
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 07 13:41:45 2026
Quant Method : C:\MassHunter\GCMS\1\methods\QA4 01JUNE2026(updated070726).m
Quant Title : TO-15
QLast Update : Tue Jul 07 13:34:36 2026
Response via : Initial Calibration

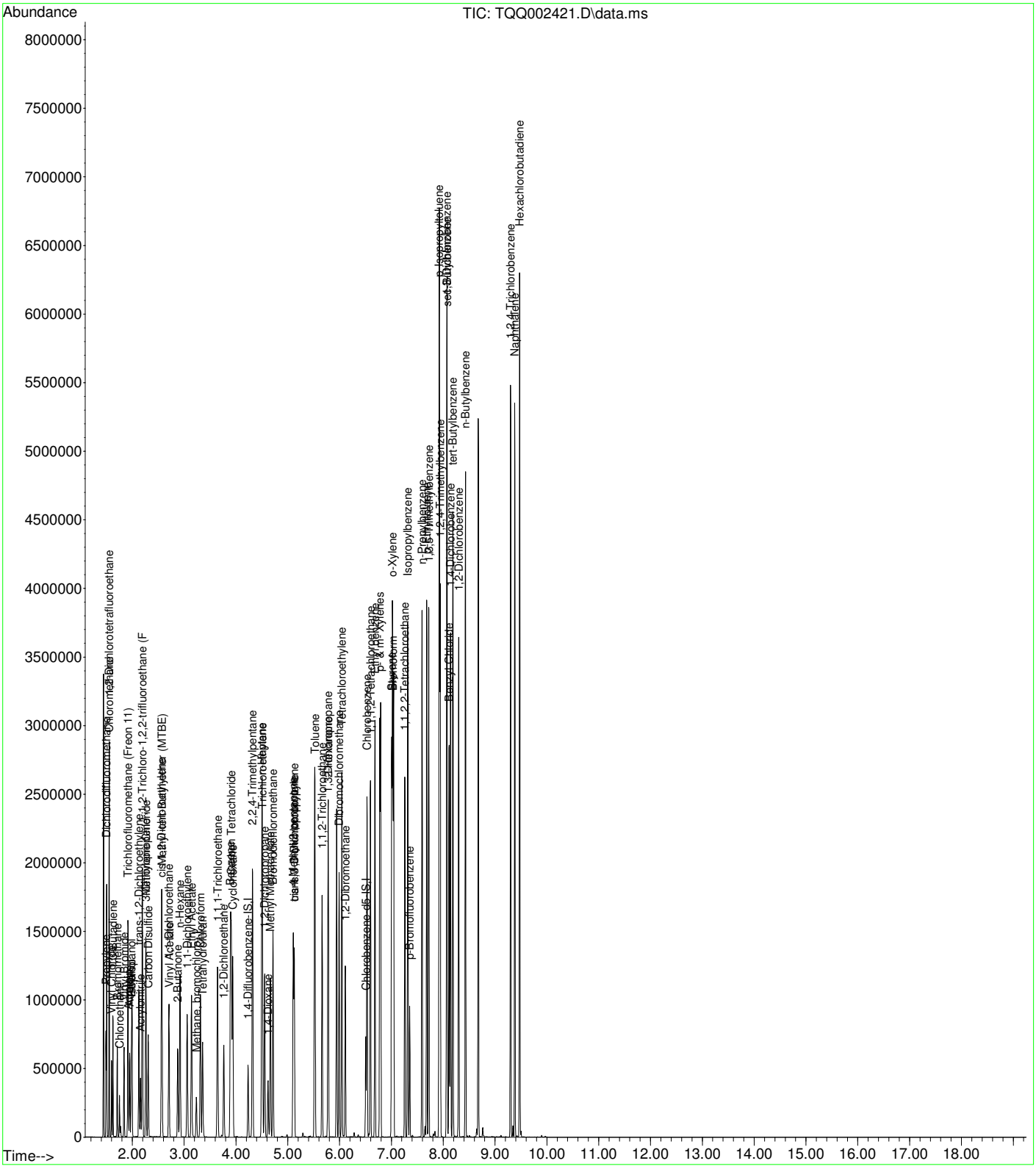
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
54) Tetrachloroethylene	6.042	166	423291	27.13	ppbv	95
56) Chlorobenzene	6.530	112	738966	26.93	ppbv	98
57) 1,1,1,2-Tetrachloroethane	6.595	131	409468	27.31	ppbv	95
58) Ethyl benzene	6.683	91	1214899	26.23	ppbv	98
59) p- & m- Xylenes	6.777	91	1002679	53.65	ppbv	98
60) Bromoform	7.029	173	535770	26.43	ppbv	98
61) Styrene	7.006	104	768319	27.06	ppbv	85
62) o-Xylene	7.019	91	1032748	25.47	ppbv	90
63) 1,1,2,2-Tetrachloroethane	7.260	83	700882	26.31	ppbv	100
64) p-Bromofluorobenzene	7.354	95	176141	9.93	ppbv	96
65) Isopropylbenzene	7.315	105	1343882	25.71	ppbv	99
66) n-Propylbenzene	7.591	91	1670497	26.47	ppbv	98
67) p-Ethyltoluene	7.682	105	1358152	26.26	ppbv	99
68) 1,3,5-Trimethylbenzene	7.722	105	1159338	27.08	ppbv	99
69) tert-Butylbenzene	8.185	119	1456826	27.17	ppbv #	60
70) 1,2,4-Trimethylbenzene	7.942	105	1170202	26.67	ppbv #	27
71) 1,3-Dichlorobenzene	8.067	146	741812	25.95	ppbv	98
72) sec-Butylbenzene	8.074	105	1604398	25.61	ppbv	98
73) 1,4-Dichlorobenzene	8.141	146	785375	26.94	ppbv	99
74) Benzyl Chloride	8.112	91	1081024	28.03	ppbv	99
75) p-Isopropyltoluene	7.921	119	1056920	25.94	ppbv #	56
76) 1,2-Dichlorobenzene	8.297	146	766983	26.75	ppbv	98
77) n-Butylbenzene	8.428	91	1482677	27.37	ppbv	99
78) 1,2,4-Trichlorobenzene	9.299	180	837710	29.66	ppbv	98
79) Naphthalene	9.380	128	2056220	28.57	ppbv	98
80) Hexachlorobutadiene	9.473	225	592527	26.68	ppbv	89

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

Quantitation Report (QT Reviewed)

Data Path : C:\MassHunter\GCMS\1\data\2026\5-MAY\052926\
Data File : TQQ002421.D
Acq On : 30 May 2026 05:19 am
Operator : YR
Sample : SEQ-CALA
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 07 13:41:45 2026
Quant Method : C:\MassHunter\GCMS\1\methods\QA4 01JUNE2026(updated070726).m
Quant Title : TO-15
QLast Update : Tue Jul 07 13:34:36 2026
Response via : Initial Calibration



SECOND-SOURCE ICV/SCV CALIBRATION VERIFICATION

EPA TO-15

Laboratory: ALS Environmental - Stratford
SDG: 26G0459
Client: Hydro Tech Environmental
Project: 152 Graham Avenue Brooklyn, NY 240052
Calibration: SF60002
Laboratory ID: S6F0126-SCV1
Sequence: S6F0126
Standard ID: S26F114

ANALYTE	EXPECTED (ppbv)	FOUND (ppbv)	% DIFF	QC LIMIT
1,1,1,2-Tetrachloroethane	10.0	8.85	-11.5	30.00
1,1,1-Trichloroethane	10.0	9.08	-9.2	30.00
1,1,2,2-Tetrachloroethane	10.0	8.68	-13.2	30.00
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.0	8.97	-10.3	30.00
1,1,2-Trichloroethane	10.0	8.94	-10.6	30.00
1,1-Dichloroethane	10.0	8.99	-10.1	30.00
1,1-Dichloroethylene	10.0	9.21	-7.9	30.00
1,2,4-Trichlorobenzene	10.0	9.33	-6.7	30.00
1,2,4-Trimethylbenzene	10.0	8.88	-11.2	30.00
1,2-Dibromoethane	10.0	9.30	-7.0	30.00
1,2-Dichlorobenzene	10.0	8.94	-10.6	30.00
1,2-Dichloroethane	10.0	8.98	-10.2	30.00
1,2-Dichloropropane	10.0	8.94	-10.6	30.00
1,2-Dichlorotetrafluoroethane	10.0	8.50	-15.0	30.00
1,3,5-Trimethylbenzene	10.0	8.93	-10.7	30.00
1,3-Butadiene	10.0	8.36	-16.4	30.00
1,3-Dichlorobenzene	10.0	9.00	-10.0	30.00
1,3-Dichloropropane	10.0	8.99	-10.1	30.00
1,4-Dichlorobenzene	10.0	9.16	-8.4	30.00
1,4-Dioxane	10.0	8.65	-13.5	30.00
2,2,4-Trimethylpentane	10.0	8.24	-17.6	30.00
2-Butanone	10.0	8.51	-14.9	30.00
2-Hexanone	10.0	7.31	-26.9	30.00
3-Chloropropene	10.0	8.77	-12.3	30.00
4-Methyl-2-pentanone	10.0	8.30	-17.0	30.00

SECOND-SOURCE ICV/SCV CALIBRATION VERIFICATION

EPA TO-15

Laboratory: ALS Environmental - Stratford
SDG: 26G0459
Client: Hydro Tech Environmental
Project: 152 Graham Avenue Brooklyn, NY 240052
Calibration: SF60002
Laboratory ID: S6F0126-SCV1
Sequence: S6F0126
Standard ID: S26F114

ANALYTE	EXPECTED (ppbv)	FOUND (ppbv)	% DIFF	QC LIMIT
Acetone	10.0	8.47	-15.3	30.00
Acrylonitrile	10.0	7.89	-21.1	30.00
Benzene	10.0	8.32	-16.8	30.00
Benzyl chloride	10.0	9.57	-4.3	30.00
Bromodichloromethane	10.0	8.91	-10.9	30.00
Bromoform	10.0	9.07	-9.3	30.00
Bromomethane	10.0	8.84	-11.6	30.00
Carbon disulfide	10.0	9.40	-6.0	30.00
Carbon tetrachloride	10.0	9.59	-4.1	30.00
Chlorobenzene	10.0	9.00	-10.0	30.00
Chloroethane	10.0	8.38	-16.2	30.00
Chloroform	10.0	9.73	-2.7	30.00
Chloromethane	10.0	7.95	-20.5	30.00
cis-1,2-Dichloroethylene	10.0	8.72	-12.8	30.00
cis-1,3-Dichloropropylene	10.0	8.29	-17.1	30.00
Cyclohexane	10.0	8.09	-19.1	30.00
Dibromochloromethane	10.0	8.96	-10.4	30.00
Dichlorodifluoromethane	10.0	8.65	-13.5	30.00
Ethyl acetate	10.0	6.39	-36.1 *	30.00
Ethyl Benzene	10.0	8.78	-12.2	30.00
Hexachlorobutadiene	10.0	9.85	-1.5	30.00
Isopropanol	10.0	9.69	-3.1	30.00
Methyl Methacrylate	10.0	8.99	-10.1	30.00
Methyl tert-butyl ether (MTBE)	10.0	8.56	-14.4	30.00
Methylene chloride	10.0	8.72	-12.8	30.00

SECOND-SOURCE ICV/SCV CALIBRATION VERIFICATION

EPA TO-15

Laboratory: ALS Environmental - Stratford
SDG: 26G0459
Client: Hydro Tech Environmental
Project: 152 Graham Avenue Brooklyn, NY 240052
Calibration: SF60002
Laboratory ID: S6F0126-SCV1
Sequence: S6F0126
Standard ID: S26F114

ANALYTE	EXPECTED (ppbv)	FOUND (ppbv)	% DIFF	QC LIMIT
Naphthalene	10.0	9.06	-9.4	30.00
n-Heptane	10.0	8.52	-14.8	30.00
n-Hexane	10.0	8.44	-15.6	30.00
o-Xylene	10.0	8.70	-13.0	30.00
p- & m- Xylenes	20.0	16.6	-16.8	30.00
p-Ethyltoluene	10.0	8.73	-12.7	30.00
Propylene	10.0	8.17	-18.3	30.00
Styrene	10.0	9.00	-10.0	30.00
Tetrachloroethylene	10.0	9.31	-6.9	30.00
Tetrahydrofuran	10.0	8.62	-13.8	30.00
Toluene	10.0	8.87	-11.3	30.00
trans-1,2-Dichloroethylene	10.0	8.89	-11.1	30.00
trans-1,3-Dichloropropylene	10.0	8.29	-17.1	30.00
Trichloroethylene	10.0	9.45	-5.5	30.00
Trichlorofluoromethane (Freon 11)	10.0	8.61	-13.9	30.00
Vinyl acetate	10.0	18.2	81.8 *	30.00
Vinyl bromide	10.0	8.38	-16.2	30.00
Vinyl Chloride	10.0	8.40	-16.0	30.00

* Values outside of QC limits

Data Path : C:\MassHunter\GCMS\1\data\2026\5-MAY\052926\
Data File : TQQ002425.D
Acq On : 01 Jun 2026 12:29 pm
Operator : YR
Sample : SEQ-SCV1
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 07 13:42:04 2026
Quant Method : C:\MassHunter\GCMS\1\methods\QA4 01JUNE2026(updated070726).m
Quant Title : TO-15
QLast Update : Tue Jul 07 13:34:36 2026
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Methane, bromochloro-	3.232	130	71229	10.00	ppbv	#-0.02
38) 1,4-Difluorobenzene-IS	4.233	114	270676	10.00	ppbv	-0.02
55) Chlorobenzene-d5-IS	6.504	117	244479	10.00	ppbv	0.00
Target Compounds						Qvalue
2) Propylene	1.492	41	48513	8.17	ppbv	95
3) Dichlorodifluoromethane	1.506	85	185901	8.65	ppbv	99
4) 1,2-Dichlorotetrafluor...	1.555	85	167632	8.50	ppbv #	86
5) Chloromethane	1.552	50	67945	7.95	ppbv	99
6) Chloroethane	1.756	64	35321	8.38	ppbv	99
7) 1,3-Butadiene	1.627	54	48763	8.36	ppbv	98
8) Bromomethane	1.712	94	61430	8.84	ppbv	98
9) Vinyl Chloride	1.600	62	64065	8.40	ppbv #	83
10) Ethanol	1.981	45	130044	27.54	ppbv #	2
11) Vinyl Bromide	1.842	106	63578	8.38	ppbv	99
12) Trichlorofluoromethane...	1.917	101	181190	8.61	ppbv	99
13) Acrolein	1.924	56	26508	10.86	ppbv	93
14) Acetone	1.950	58	37109	8.47	ppbv	70
15) Isopropanol	1.981	45	130044	9.69	ppbv	92
16) 1,1-Dichloroethylene	3.054	61	112091	9.21	ppbv #	79
17) Acrylonitrile	2.159	53	55674	7.89	ppbv	97
18) 1,1,2-Trichloro-1,2,2-...	2.194	101	145978	8.97	ppbv	95
19) Methylene Chloride	2.261	49	80920	8.72	ppbv	95
20) 3-Chloropropene	2.260	41	88479	8.77	ppbv	96
21) Carbon Disulfide	2.306	76	209705	9.40	ppbv	99
22) trans-1,2-Dichloroethy...	2.128	61	114112	8.89	ppbv	89
23) Methyl-tert-Butyl-ethe...	2.570	73	214581	8.56	ppbv	97
24) 1,1-Dichloroethane	2.702	63	144746	8.99	ppbv	98
25) Vinyl Acetate	2.707	43	135468	18.18	ppbv	96
26) 2-Butanone	2.873	72	42922	8.51	ppbv #	3
27) n-Hexane	2.917	57	120154	8.44	ppbv	97
28) cis-1,2-Dichloroethylene	2.560	61	107627	8.72	ppbv	87
29) Ethyl Acetate	3.137	43	196869	6.39	ppbv	97
30) Chloroform	3.310	83	179261	9.73	ppbv #	83
31) Tetrahydrofuran	3.353	42	86098	8.62	ppbv	93
32) 1,1,1-Trichloroethane	3.642	97	181000	9.08	ppbv	100
33) 1,2-Dichloroethane	3.760	62	117848	8.98	ppbv	96
34) Cyclohexane	3.934	56	126380	8.09	ppbv	94
35) Benzene	3.889	78	262838	8.32	ppbv	94
36) Carbon Tetrachloride	3.908	117	184345	9.59	ppbv #	93
37) 2,2,4-Trimethylpentane	4.317	57	392708	8.24	ppbv	99
39) n-Heptane	4.495	43	137263	8.52	ppbv #	85
40) 1,2-Dichloropropane	4.550	63	93347	8.94	ppbv #	81
41) Trichloroethylene	4.506	130	120286	9.45	ppbv	99
42) Bromodichloromethane	4.711	83	192532	8.91	ppbv	99
43) 1,4-Dioxane	4.616	88	63504	8.65	ppbv	93
44) Methyl Methacrylate	4.661	41	115086	8.99	ppbv #	85
45) cis-1,3-Dichloropropylene	5.121	75	152912	8.29	ppbv	81
46) 4-Methyl-2-pentanone	5.101	43	172462	8.30	ppbv	92
47) trans-1,3-Dichloroprop...	5.121	75	152912	8.29	ppbv #	77
48) Toluene	5.521	91	328067	8.87	ppbv	100
49) 1,1,2-Trichloroethane	5.661	97	108782	8.94	ppbv	98
50) 1,3-Dichloropropane	5.773	76	162530	8.99	ppbv	90
51) 2-Hexanone	5.781	43	182055	7.31	ppbv	91
52) Dibromochloromethane	5.988	129	200066	8.96	ppbv	100
53) 1,2-Dibromoethane	6.106	107	175506	9.30	ppbv	98

Data Path : C:\MassHunter\GCMS\1\data\2026\5-MAY\052926\
Data File : TQQ002425.D
Acq On : 01 Jun 2026 12:29 pm
Operator : YR
Sample : SEQ-SCV1
Misc :
ALS Vial : 1 Sample Multiplier: 1

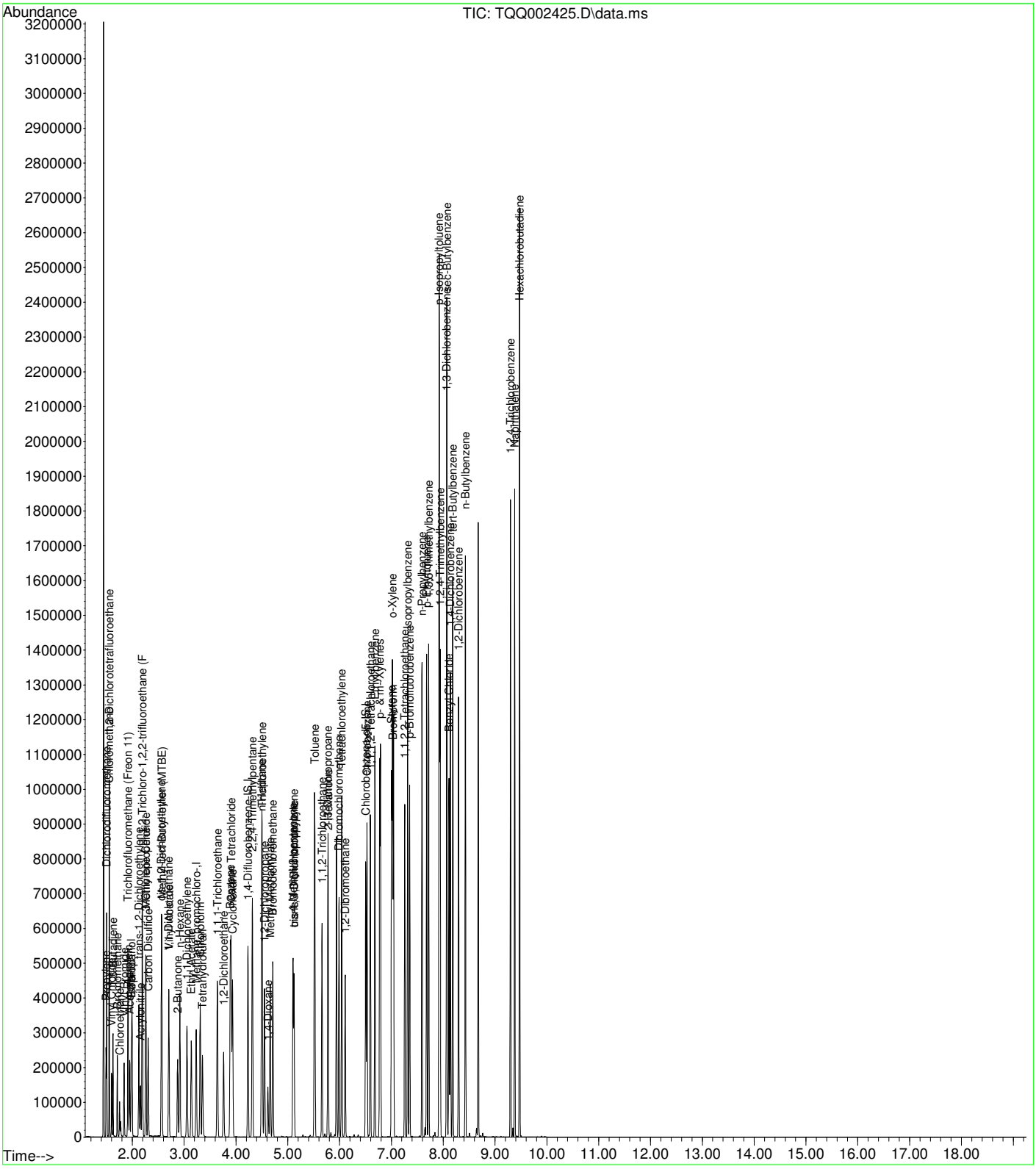
Quant Time: Jul 07 13:42:04 2026
Quant Method : C:\MassHunter\GCMS\1\methods\QA4 01JUNE2026(updated070726).m
Quant Title : TO-15
QLast Update : Tue Jul 07 13:34:36 2026
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
54) Tetrachloroethylene	6.039	166	154755	9.31	ppbv	95
56) Chlorobenzene	6.530	112	262786	9.00	ppbv	98
57) 1,1,1,2-Tetrachloroethane	6.595	131	141191	8.85	ppbv	95
58) Ethyl benzene	6.681	91	432564	8.78	ppbv	98
59) p- & m- Xylenes	6.774	91	330630	16.63	ppbv	98
60) Bromoform	7.027	173	195640	9.07	ppbv	99
61) Styrene	7.003	104	271758	9.00	ppbv	87
62) o-Xylene	7.017	91	375185	8.70	ppbv	91
63) 1,1,2,2-Tetrachloroethane	7.258	83	246076	8.68	ppbv	99
64) p-Bromofluorobenzene	7.352	95	184692	9.78	ppbv	94
65) Isopropylbenzene	7.314	105	482800	8.68	ppbv	99
66) n-Propylbenzene	7.590	91	591066	8.80	ppbv	99
67) p-Ethyltoluene	7.679	105	480286	8.73	ppbv	99
68) 1,3,5-Trimethylbenzene	7.719	105	406585	8.93	ppbv	99
69) tert-Butylbenzene	8.184	119	511316	8.96	ppbv #	59
70) 1,2,4-Trimethylbenzene	7.942	105	414408	8.88	ppbv #	27
71) 1,3-Dichlorobenzene	8.064	146	273529	9.00	ppbv	99
72) sec-Butylbenzene	8.071	105	597218	8.96	ppbv	99
73) 1,4-Dichlorobenzene	8.138	146	284110	9.16	ppbv	99
74) Benzyl Chloride	8.111	91	392610	9.57	ppbv	100
75) p-Isopropyltoluene	7.919	119	385429	8.89	ppbv #	59
76) 1,2-Dichlorobenzene	8.295	146	272704	8.94	ppbv	99
77) n-Butylbenzene	8.428	91	494295	8.58	ppbv	99
78) 1,2,4-Trichlorobenzene	9.298	180	280193	9.33	ppbv	96
79) Naphthalene	9.379	128	694063	9.06	ppbv	99
80) Hexachlorobutadiene	9.473	225	232608	9.85	ppbv	88

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

Data Path : C:\MassHunter\GCMS\1\data\2026\5-MAY\052926\
Data File : TQQ002425.D
Acq On : 01 Jun 2026 12:29 pm
Operator : YR
Sample : SEQ-SCV1
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 07 13:42:04 2026
Quant Method : C:\MassHunter\GCMS\1\methods\QA4 01JUNE2026(updated070726).m
Quant Title : TO-15
QLast Update : Tue Jul 07 13:34:36 2026
Response via : Initial Calibration



FORM VII

CONTINUING CALIBRATION CHECK

EPA TO-15

Laboratory:	ALS Environmental - Stratford	SDG:	26G0459
Client:	Hydro Tech Environmental	Project:	152 Graham Avenue Brooklyn, NY 240052
Instrument ID:	AIR 4	Calibration:	SF60002
Lab File ID:	TQQ003130.D	Calibration Date:	05/29/26 16:00
Sequence:	S6G1321	Injection Date:	07/10/26
Lab Sample ID:	S6G1321-CCV1	Injection Time:	13:03

		CONC. (ppbv)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	Q
1,1,1,2-Tetrachloroethane	A	10.0	8.92	0.6243528	0.5591888		-10.4	30	
1,1,1-Trichloroethane	A	10.0	8.56	2.970983	2.550242		-14.2	30	
1,1,2,2-Tetrachloroethane	A	10.0	9.56	1.112694	1.068317		-4.0	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	A	10.0	9.85	2.429254	2.401524		-1.1	30	
1,1,2-Trichloroethane	A	10.0	9.88	0.4324696	0.4289655		-0.8	30	
1,1-Dichloroethane	A	10.0	8.41	2.401071	2.027089		-15.6	30	
1,1-Dichloroethylene	A	10.0	8.62	1.796794	1.551917		-13.6	30	
1,2,4-Trichlorobenzene	A	10.0	10.1	1.175988	1.187176		1.0	30	
1,2,4-Trimethylbenzene	A	10.0	9.51	1.835849	1.752032		-4.6	30	
1,2-Dibromoethane	A	10.0	10.2	0.669052	0.6878221		2.8	30	
1,2-Dichlorobenzene	A	10.0	9.47	1.19679	1.13707		-5.0	30	
1,2-Dichloroethane	A	10.0	8.40	1.95752	1.649718		-15.7	30	
1,2-Dichloropropane	A	10.0	9.54	0.3700069	0.3543788		-4.2	30	
1,2-Dichlorotetrafluoroethane	A	10.0	11.7	2.939411	3.46377		17.8	30	
1,3,5-Trimethylbenzene	A	10.0	9.49	1.787409	1.702245		-4.8	30	
1,3-Butadiene	A	10.0	9.51	0.8686141	0.8284793		-4.6	30	
1,3-Dichlorobenzene	A	10.0	9.90	1.196178	1.188051		-0.7	30	
1,3-Dichloropropane	A	10.0	9.97	0.6418726	0.6422172		0.05	30	
1,4-Dichlorobenzene	A	10.0	9.69	1.216468	1.182409		-2.8	30	
1,4-Dioxane	A	10.0	9.08	0.2631479	0.2376581		-9.7	30	
2,2,4-Trimethylpentane	A	10.0	8.16	6.692798	5.477099		-18.2	30	
2-Butanone	A	10.0	8.16	0.75051	0.6145963		-18.1	30	
2-Hexanone	A	10.0	8.81	0.7576555	0.6694444		-11.6	30	
3-Chloropropene	A	10.0	7.46	1.503349	1.12462		-25.2	30	
4-Methyl-2-pentanone	A	10.0	9.24	0.7489661	0.6946875		-7.2	30	
Acetone	A	10.0	8.22	0.6630194	0.5458115		-17.7	30	
Acrylonitrile	A	10.0	7.62	1.046812	0.8010843		-23.5	30	
Benzene	A	10.0	8.11	4.688268	3.818483		-18.6	30	
Benzyl chloride	A	10.0	8.11	1.608921	1.309161		-18.6	30	

FORM VII

CONTINUING CALIBRATION CHECK

EPA TO-15

Laboratory:	ALS Environmental - Stratford	SDG:	26G0459
Client:	Hydro Tech Environmental	Project:	152 Graham Avenue Brooklyn, NY 240052
Instrument ID:	AIR 4	Calibration:	SF60002
Lab File ID:	TQQ003130.D	Calibration Date:	05/29/26 16:00
Sequence:	S6G1321	Injection Date:	07/10/26
Lab Sample ID:	S6G1321-CCV1	Injection Time:	13:03

		CONC. (ppbv)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	Q
Bromodichloromethane	A	10.0	9.76	0.7676266	0.752302		-2.0	30	
Bromoform	A	10.0	9.52	0.8444635	0.806479		-4.5	30	
Bromomethane	A	10.0	10.8	1.036402	1.12842		8.9	30	
Carbon disulfide	A	10.0	9.94	3.322307	3.314115		-0.2	30	
Carbon tetrachloride	A	10.0	9.03	2.842644	2.573981		-9.5	30	
Chlorobenzene	A	10.0	9.37	1.146608	1.078761		-5.9	30	
Chloroethane	A	10.0	9.39	0.627728	0.5914519		-5.8	30	
Chloroform	A	10.0	11.4	2.241859	2.569892		14.6	30	
Chloromethane	A	10.0	9.88	1.271805	1.260928		-0.9	30	
cis-1,2-Dichloroethylene	A	10.0	10.8	1.817128	1.973019		8.6	30	
cis-1,3-Dichloropropylene	A	10.0	8.81	0.6543271	0.5785644		-11.6	30	
Cyclohexane	A	10.0	7.37	2.321441	1.717836		-26.0	30	
Dibromochloromethane	A	10.0	9.97	0.7911355	0.7916679		0.07	30	
Dichlorodifluoromethane	A	10.0	8.11	3.20224	2.606581		-18.6	30	
Ethyl acetate	A	10.0	5.80	4.581639	2.665118		-41.8	30 *	
Ethyl Benzene	A	10.0	9.29	1.936487	1.806322		-6.7	30	
Hexachlorobutadiene	A	10.0	11.0	0.9260589	1.02061		10.2	30	
Isopropanol	A	10.0	9.06	1.976692	1.827939		-7.5	30	
Methyl Methacrylate	A	10.0	8.79	0.4548088	0.4014085		-11.7	30	
Methyl tert-butyl ether (MTBE)	A	10.0	10.6	3.736328	3.972749		6.3	30	
Methylene chloride	A	10.0	8.68	1.381605	1.203274		-12.9	30	
Naphthalene	A	10.0	9.81	2.99505	2.948174		-1.6	30	
n-Heptane	A	10.0	8.35	2.462969	1.804885		-26.7	30	
n-Hexane	A	10.0	7.73	2.117857	1.642316		-22.5	30	
o-Xylene	A	10.0	9.43	1.700125	1.609704		-5.3	30	
p- & m- Xylenes	A	20.0	17.8	0.7880264	0.702022		-10.9	30	
p-Ethyltoluene	A	10.0	9.37	2.160225	2.032173		-5.9	30	
Propylene	A	10.0	5.87	0.8834846	0.5205418		-41.1	30 *	
Styrene	A	10.0	9.47	1.185652	1.126292		-5.0	30	

FORM VII

CONTINUING CALIBRATION CHECK

EPA TO-15

Laboratory:	ALS Environmental - Stratford	SDG:	26G0459
Client:	Hydro Tech Environmental	Project:	152 Graham Avenue Brooklyn, NY 240052
Instrument ID:	AIR 4	Calibration:	SF60002
Lab File ID:	TQQ003130.D	Calibration Date:	05/29/26 16:00
Sequence:	S6G1321	Injection Date:	07/10/26
Lab Sample ID:	S6G1321-CCV1	Injection Time:	13:03

		CONC. (ppbv)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	Q
Tetrachloroethylene	A	10.0	9.86	0.5901278	0.5837995		-1.1	30	
Tetrahydrofuran	A	10.0	7.28	1.528014	1.115758		-27.0	30	
Toluene	A	10.0	9.75	1.312762	1.285161		-2.1	30	
trans-1,2-Dichloroethylene	A	10.0	9.09	1.9148	1.745718		-8.8	30	
trans-1,3-Dichloropropylene	A	10.0	8.81	0.6543271	0.5785644		-11.6	30	
Trichloroethylene	A	10.0	10.2	0.4560934	0.4674947		2.5	30	
Trichlorofluoromethane (Freon 11)	A	10.0	9.65	3.137481	3.037733		-3.2	30	
Vinyl acetate	A	10.0	15.1	1.106689	1.673907		51.3	30 *	
Vinyl bromide	A	10.0	9.71	1.131117	1.101403		-2.6	30	
Vinyl Chloride	A	10.0	10.3	1.123016	1.158679		3.2	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:	26G0459
Client:	Hydro Tech Environmental	Project:	152 Graham Avenue Brooklyn, NY 240052
Instrument ID:	AIR 4	Calibration:	SF60002
Lab File ID:	TQQ003156.D	Calibration Date:	05/29/26 16:00
Sequence:	S6G1401	Injection Date:	07/13/26
Lab Sample ID:	S6G1401-CCV1	Injection Time:	10:44

		CONC. (ppbv)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	Q
1,1,1,2-Tetrachloroethane	A	10.0	9.57	0.6243528	0.5997703		-3.9	30	
1,1,1-Trichloroethane	A	10.0	8.48	2.970983	2.528124		-14.9	30	
1,1,2,2-Tetrachloroethane	A	10.0	9.80	1.112694	1.09502		-1.6	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	A	10.0	10.4	2.429254	2.53615		4.4	30	
1,1,2-Trichloroethane	A	10.0	9.98	0.4324696	0.4333077		0.2	30	
1,1-Dichloroethane	A	10.0	8.50	2.401071	2.047641		-14.7	30	
1,1-Dichloroethylene	A	10.0	8.87	1.796794	1.596848		-11.1	30	
1,2,4-Trichlorobenzene	A	10.0	9.15	1.175988	1.079776		-8.2	30	
1,2,4-Trimethylbenzene	A	10.0	9.84	1.835849	1.813689		-1.2	30	
1,2-Dibromoethane	A	10.0	9.81	0.669052	0.658856		-1.5	30	
1,2-Dichlorobenzene	A	10.0	9.66	1.19679	1.160477		-3.0	30	
1,2-Dichloroethane	A	10.0	8.33	1.95752	1.636651		-16.4	30	
1,2-Dichloropropane	A	10.0	9.65	0.3700069	0.3583528		-3.1	30	
1,2-Dichlorotetrafluoroethane	A	10.0	13.4	2.939411	3.967298		35.0	30 *	
1,3,5-Trimethylbenzene	A	10.0	9.80	1.787409	1.757524		-1.7	30	
1,3-Butadiene	A	10.0	11.0	0.8686141	0.9569622		10.2	30	
1,3-Dichlorobenzene	A	10.0	10.4	1.196178	1.246164		4.2	30	
1,3-Dichloropropane	A	10.0	9.93	0.6418726	0.6398935		-0.3	30	
1,4-Dichlorobenzene	A	10.0	9.90	1.216468	1.20921		-0.6	30	
1,4-Dioxane	A	10.0	9.15	0.2631479	0.2394834		-9.0	30	
2,2,4-Trimethylpentane	A	10.0	8.48	6.692798	5.694286		-14.9	30	
2-Butanone	A	10.0	7.79	0.75051	0.586974		-21.8	30	
2-Hexanone	A	10.0	8.12	0.7576555	0.6167267		-18.6	30	
3-Chloropropene	A	10.0	8.00	1.503349	1.206462		-19.7	30	
4-Methyl-2-pentanone	A	10.0	9.34	0.7489661	0.7024376		-6.2	30	
Acetone	A	10.0	8.76	0.6630194	0.5817205		-12.3	30	
Acrylonitrile	A	10.0	7.79	1.046812	0.8181632		-21.8	30	
Benzene	A	10.0	8.20	4.688268	3.858104		-17.7	30	
Benzyl chloride	A	10.0	7.34	1.608921	1.185212		-26.3	30	

FORM VII

CONTINUING CALIBRATION CHECK

EPA TO-15

Laboratory:	ALS Environmental - Stratford	SDG:	26G0459
Client:	Hydro Tech Environmental	Project:	152 Graham Avenue Brooklyn, NY 240052
Instrument ID:	AIR 4	Calibration:	SF60002
Lab File ID:	TQQ003156.D	Calibration Date:	05/29/26 16:00
Sequence:	S6G1401	Injection Date:	07/13/26
Lab Sample ID:	S6G1401-CCV1	Injection Time:	10:44

		CONC. (ppbv)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	Q
Bromodichloromethane	A	10.0	10.0	0.7676266	0.7712996		0.5	30	
Bromoform	A	10.0	10.2	0.8444635	0.8601488		1.9	30	
Bromomethane	A	10.0	11.8	1.036402	1.221367		17.8	30	
Carbon disulfide	A	10.0	10.3	3.322307	3.418759		2.9	30	
Carbon tetrachloride	A	10.0	9.07	2.842644	2.584082		-9.1	30	
Chlorobenzene	A	10.0	9.64	1.146608	1.108793		-3.3	30	
Chloroethane	A	10.0	10.8	0.627728	0.6830433		8.8	30	
Chloroform	A	10.0	11.6	2.241859	2.607132		16.3	30	
Chloromethane	A	10.0	11.9	1.271805	1.515718		19.2	30	
cis-1,2-Dichloroethylene	A	10.0	11.6	1.817128	2.11171		16.2	30	
cis-1,3-Dichloropropylene	A	10.0	9.50	0.6543271	0.6239933		-4.6	30	
Cyclohexane	A	10.0	7.81	2.321441	1.819447		-21.6	30	
Dibromochloromethane	A	10.0	10.2	0.7911355	0.8120664		2.6	30	
Dichlorodifluoromethane	A	10.0	9.65	3.20224	3.101425		-3.1	30	
Ethyl acetate	A	10.0	7.59	4.581639	3.487516		-23.9	30	
Ethyl Benzene	A	10.0	9.67	1.936487	1.880507		-2.9	30	
Hexachlorobutadiene	A	10.0	10.4	0.9260589	0.9715862		4.9	30	
Isopropanol	A	10.0	8.00	1.976692	1.61355		-18.4	30	
Methyl Methacrylate	A	10.0	8.35	0.4548088	0.3811104		-16.2	30	
Methyl tert-butyl ether (MTBE)	A	10.0	11.3	3.736328	4.246522		13.7	30	
Methylene chloride	A	10.0	9.30	1.381605	1.289371		-6.7	30	
Naphthalene	A	10.0	8.43	2.99505	2.535264		-15.4	30	
n-Heptane	A	10.0	8.94	2.462969	1.951298		-20.8	30	
n-Hexane	A	10.0	8.31	2.117857	1.766193		-16.6	30	
o-Xylene	A	10.0	9.85	1.700125	1.680511		-1.2	30	
p- & m- Xylenes	A	20.0	18.7	0.7880264	0.7399829		-6.1	30	
p-Ethyltoluene	A	10.0	9.57	2.160225	2.075033		-3.9	30	
Propylene	A	10.0	6.44	0.8834846	0.5712477		-35.3	30 *	
Styrene	A	10.0	9.82	1.185652	1.16874		-1.4	30	

FORM VII

CONTINUING CALIBRATION CHECK

EPA TO-15

Laboratory:	ALS Environmental - Stratford	SDG:	26G0459
Client:	Hydro Tech Environmental	Project:	152 Graham Avenue Brooklyn, NY 240052
Instrument ID:	AIR 4	Calibration:	SF60002
Lab File ID:	TQQ003156.D	Calibration Date:	05/29/26 16:00
Sequence:	S6G1401	Injection Date:	07/13/26
Lab Sample ID:	S6G1401-CCV1	Injection Time:	10:44

		CONC. (ppbv)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	Q
Tetrachloroethylene	A	10.0	9.83	0.5901278	0.58199		-1.4	30	
Tetrahydrofuran	A	10.0	7.41	1.528014	1.135582		-25.7	30	
Toluene	A	10.0	9.68	1.312762	1.275924		-2.8	30	
trans-1,2-Dichloroethylene	A	10.0	9.65	1.9148	1.853363		-3.2	30	
trans-1,3-Dichloropropylene	A	10.0	9.50	0.6543271	0.6239933		-4.6	30	
Trichloroethylene	A	10.0	10.2	0.4560934	0.4640829		1.8	30	
Trichlorofluoromethane (Freon 11)	A	10.0	10.8	3.137481	3.402502		8.4	30	
Vinyl acetate	A	10.0	4.94	1.106689	0.5489159		-50.4	30 *	
Vinyl bromide	A	10.0	11.1	1.131117	1.257731		11.2	30	
Vinyl Chloride	A	10.0	12.1	1.123016	1.36085		21.2	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\2026\7-JULY\071026\
Data File : TQQ003130.D
Acq On : 10 Jul 2026 01:03 pm
Operator : YR
Sample : SEQ-CCV1
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 10 13:24:19 2026
Quant Method : C:\MassHunter\GCMS\1\methods\QA4 01JUNE2026(updated070726).m
Quant Title : TO-15
QLast Update : Tue Jul 07 14:14:35 2026
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Methane, bromochloro-	3.271	130	55521	10.00	ppbv	# 0.02
38) 1,4-Difluorobenzene-IS	4.265	114	209166	10.00	ppbv	0.02
55) Chlorobenzene-d5-IS	6.517	117	197622	10.00	ppbv	0.00
Target Compounds						Qvalue
2) Propylene	1.492	41	28901	5.87	ppbv	95
3) Dichlorodifluoromethane	1.507	85	144720	8.11	ppbv	99
4) 1,2-Dichlorotetrafluor...	1.555	85	192312	11.74	ppbv	# 87
5) Chloromethane	1.553	50	70008	9.88	ppbv	99
6) Chloroethane	1.761	64	32838	9.39	ppbv	99
7) 1,3-Butadiene	1.629	54	45998	9.51	ppbv	97
8) Bromomethane	1.715	94	62651	10.85	ppbv	100
9) Vinyl Chloride	1.601	62	64331	10.29	ppbv	# 83
10) Ethanol	1.996	45	101489	9.06	ppbv	# 1
11) Vinyl Bromide	1.850	106	61151	9.71	ppbv	98
12) Trichlorofluoromethane...	1.929	101	168658	9.65	ppbv	99
13) Acrolein	1.937	56	22016	10.78	ppbv	93
14) Acetone	1.963	58	30304	8.22	ppbv	61
15) Isopropanol	1.996	45	101489	9.06	ppbv	91
16) 1,1-Dichloroethylene	3.094	61	86164	8.62	ppbv	# 77
17) Acrylonitrile	2.177	53	44477	7.62	ppbv	97
18) 1,1,2-Trichloro-1,2,2-...	2.213	101	133335	9.85	ppbv	93
19) Methylene Chloride	2.284	49	66807	8.68	ppbv	89
20) 3-Chloropropene	2.281	41	62440	7.46	ppbv	# 85
21) Carbon Disulfide	2.328	76	184003	9.94	ppbv	99
22) trans-1,2-Dichloroethy...	2.143	61	96924	9.09	ppbv	92
23) Methyl-tert-Butyl-ethe...	2.599	73	220571	10.60	ppbv	95
24) 1,1-Dichloroethane	2.734	63	112546	8.41	ppbv	99
25) Vinyl Acetate	2.741	43	92937	15.07	ppbv	93
26) 2-Butanone	2.912	72	34123	8.16	ppbv	# 1
27) n-Hexane	2.957	57	91183	7.73	ppbv	96
28) cis-1,2-Dichloroethylene	2.588	61	109544	10.83	ppbv	93
29) Ethyl Acetate	3.179	43	147970	5.80	ppbv	95
30) Chloroform	3.348	83	142683	11.42	ppbv	# 82
31) Tetrahydrofuran	3.389	42	61948	7.28	ppbv	89
32) 1,1,1-Trichloroethane	3.678	97	141592	8.56	ppbv	99
33) 1,2-Dichloroethane	3.796	62	91594	8.40	ppbv	97
34) Cyclohexane	3.968	56	95376	7.37	ppbv	96
35) Benzene	3.923	78	212006	8.11	ppbv	93
36) Carbon Tetrachloride	3.940	117	142910	9.03	ppbv	98
37) 2,2,4-Trimethylpentane	4.347	57	304094	8.16	ppbv	99
39) n-Heptane	4.525	43	100209	8.35	ppbv	# 78
40) 1,2-Dichloropropane	4.579	63	74124	9.54	ppbv	# 83
41) Trichloroethylene	4.535	130	97784	10.22	ppbv	99
42) Bromodichloromethane	4.740	83	157356	9.76	ppbv	99
43) 1,4-Dioxane	4.644	88	49710	9.08	ppbv	91
44) Methyl Methacrylate	4.689	41	83961	8.79	ppbv	# 78
45) cis-1,3-Dichloropropylene	5.145	75	121016	8.81	ppbv	# 80
46) 4-Methyl-2-pentanone	5.124	43	145305	9.24	ppbv	87
47) trans-1,3-Dichloroprop...	5.145	75	121016	8.81	ppbv	# 76
48) Toluene	5.540	91	268812	9.75	ppbv	99
49) 1,1,2-Trichloroethane	5.677	97	89725	9.88	ppbv	99
50) 1,3-Dichloropropane	5.790	76	134330	9.97	ppbv	95
51) 2-Hexanone	5.795	43	140025	8.81	ppbv	89
52) Dibromochloromethane	6.004	129	165590	9.97	ppbv	97
53) 1,2-Dibromoethane	6.120	107	143869	10.24	ppbv	98

Data Path : C:\MassHunter\GCMS\1\data\2026\7-JULY\071026\
Data File : TQQ003130.D
Acq On : 10 Jul 2026 01:03 pm
Operator : YR
Sample : SEQ-CCV1
Misc :
ALS Vial : 1 Sample Multiplier: 1

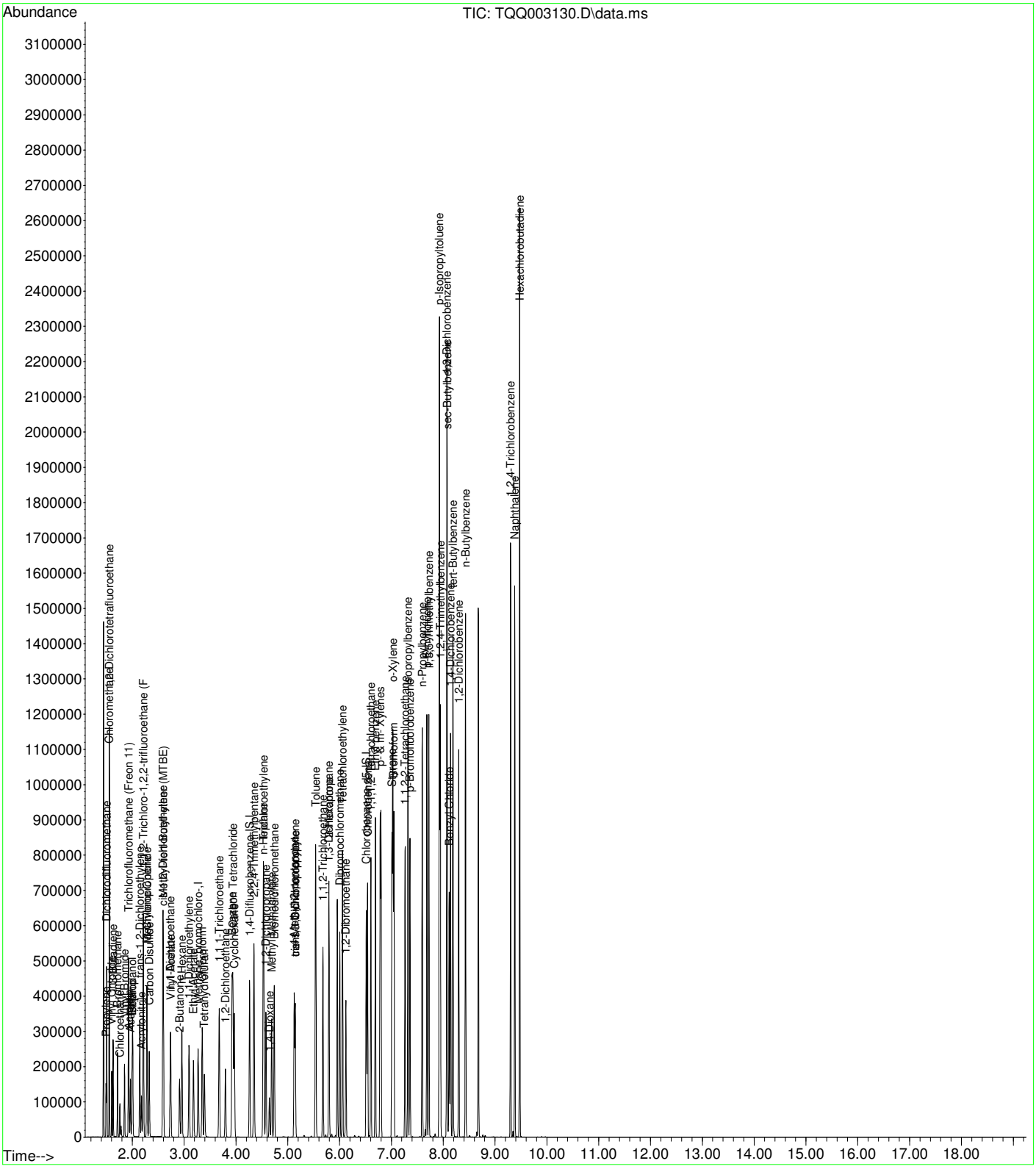
Quant Time: Jul 10 13:24:19 2026
Quant Method : C:\MassHunter\GCMS\1\methods\QA4 01JUNE2026(updated070726).m
Quant Title : TO-15
QLast Update : Tue Jul 07 14:14:35 2026
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
54) Tetrachloroethylene	6.055	166	122111	9.86	ppbv	97
56) Chlorobenzene	6.541	112	213187	9.37	ppbv	99
57) 1,1,1,2-Tetrachloroethane	6.605	131	110508	8.92	ppbv	95
58) Ethyl benzene	6.692	91	356969	9.29	ppbv	98
59) p- & m- Xylenes	6.783	91	277470	17.75	ppbv	98
60) Bromoform	7.035	173	159378	9.52	ppbv	99
61) Styrene	7.009	104	222580	9.47	ppbv	87
62) o-Xylene	7.027	91	318113	9.43	ppbv	91
63) 1,1,2,2-Tetrachloroethane	7.263	83	211123	9.56	ppbv	99
64) p-Bromofluorobenzene	7.357	95	149446	9.81	ppbv	94
65) Isopropylbenzene	7.319	105	401474	9.26	ppbv	98
66) n-Propylbenzene	7.596	91	495595	9.48	ppbv	98
67) p-Ethyltoluene	7.685	105	401602	9.37	ppbv	98
68) 1,3,5-Trimethylbenzene	7.723	105	336401	9.49	ppbv	98
69) tert-Butylbenzene	8.187	119	433627	9.76	ppbv #	59
70) 1,2,4-Trimethylbenzene	7.945	105	346240	9.51	ppbv #	25
71) 1,3-Dichlorobenzene	8.069	146	234785	9.90	ppbv	99
72) sec-Butylbenzene	8.075	105	539131	10.38	ppbv	98
73) 1,4-Dichlorobenzene	8.141	146	233670	9.69	ppbv	99
74) Benzyl Chloride	8.114	91	258719	8.11	ppbv	98
75) p-Isopropyltoluene	7.924	119	337655	9.97	ppbv #	57
76) 1,2-Dichlorobenzene	8.299	146	224710	9.47	ppbv	99
77) n-Butylbenzene	8.429	91	441331	9.84	ppbv	98
78) 1,2,4-Trichlorobenzene	9.299	180	234612	10.06	ppbv	97
79) Naphthalene	9.381	128	582624	9.81	ppbv	99
80) Hexachlorobutadiene	9.475	225	201695	10.98	ppbv	91

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

Data Path : C:\MassHunter\GCMS\1\data\2026\7-JULY\071026\
Data File : TQQ003130.D
Acq On : 10 Jul 2026 01:03 pm
Operator : YR
Sample : SEQ-CCV1
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 10 13:24:19 2026
Quant Method : C:\MassHunter\GCMS\1\methods\QA4 01JUNE2026(updated070726).m
Quant Title : TO-15
QLast Update : Tue Jul 07 14:14:35 2026
Response via : Initial Calibration



Data Path : C:\MassHunter\GCMS\1\data\2026\7-JULY\071326\
Data File : TQQ003156.D
Acq On : 13 Jul 2026 10:44 am
Operator : YR
Sample : SEQ-CCV1
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 13 11:14:29 2026
Quant Method : C:\MassHunter\GCMS\1\methods\QA4 01JUNE2026(updated070726).m
Quant Title : TO-15
QLast Update : Tue Jul 07 14:14:35 2026
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Methane, bromochloro-	3.269	130	58437	10.00	ppbv	# 0.02
38) 1,4-Difluorobenzene-IS	4.263	114	222387	10.00	ppbv	0.01
55) Chlorobenzene-d5-IS	6.516	117	201979	10.00	ppbv	0.00
Target Compounds						Qvalue
2) Propylene	1.494	41	33382	6.44	ppbv	95
3) Dichlorodifluoromethane	1.507	85	181238	9.65	ppbv	99
4) 1,2-Dichlorotetrafluor...	1.557	85	231837	13.45	ppbv #	87
5) Chloromethane	1.555	50	88574	11.88	ppbv	99
6) Chloroethane	1.762	64	39915	10.84	ppbv	99
7) 1,3-Butadiene	1.630	54	55922	10.98	ppbv	97
8) Bromomethane	1.718	94	71373	11.75	ppbv	98
9) Vinyl Chloride	1.604	62	79524	12.09	ppbv #	83
10) Ethanol	1.996	45	94291	8.00	ppbv #	1
11) Vinyl Bromide	1.851	106	73498	11.08	ppbv	98
12) Trichlorofluoromethane...	1.930	101	198832	10.81	ppbv	99
13) Acrolein	1.938	56	17601	8.19	ppbv	94
14) Acetone	1.964	58	33994	8.76	ppbv	59
15) Isopropanol	1.996	45	94291	8.00	ppbv	94
16) 1,1-Dichloroethylene	3.095	61	93315	8.87	ppbv #	78
17) Acrylonitrile	2.177	53	47811	7.79	ppbv	98
18) 1,1,2-Trichloro-1,2,2-...	2.213	101	148205	10.41	ppbv	93
19) Methylene Chloride	2.283	49	75347	9.30	ppbv	90
20) 3-Chloropropene	2.280	41	70502	8.00	ppbv #	87
21) Carbon Disulfide	2.327	76	199782	10.26	ppbv	100
22) trans-1,2-Dichloroethy...	2.145	61	108305	9.65	ppbv	92
23) Methyl-tert-Butyl-ethe...	2.599	73	248154	11.33	ppbv	95
24) 1,1-Dichloroethane	2.732	63	119658	8.50	ppbv	99
25) Vinyl Acetate	2.740	43	32077	4.94	ppbv	94
26) 2-Butanone	2.909	72	34301	7.79	ppbv #	1
27) n-Hexane	2.954	57	103211	8.31	ppbv	95
28) cis-1,2-Dichloroethylene	2.587	61	123402	11.59	ppbv	92
29) Ethyl Acetate	3.178	43	203800	7.59	ppbv	96
30) Chloroform	3.347	83	152353	11.58	ppbv #	82
31) Tetrahydrofuran	3.389	42	66360	7.41	ppbv	90
32) 1,1,1-Trichloroethane	3.676	97	147736	8.48	ppbv	98
33) 1,2-Dichloroethane	3.797	62	95641	8.33	ppbv	97
34) Cyclohexane	3.967	56	106323	7.81	ppbv	96
35) Benzene	3.922	78	225456	8.20	ppbv	94
36) Carbon Tetrachloride	3.939	117	151006	9.07	ppbv	98
37) 2,2,4-Trimethylpentane	4.346	57	332757	8.48	ppbv	99
39) n-Heptane	4.524	43	114028	8.94	ppbv #	80
40) 1,2-Dichloropropane	4.577	63	79693	9.65	ppbv #	83
41) Trichloroethylene	4.534	130	103206	10.15	ppbv	98
42) Bromodichloromethane	4.739	83	171527	10.01	ppbv	99
43) 1,4-Dioxane	4.649	88	53258	9.15	ppbv	85
44) Methyl Methacrylate	4.688	41	84754	8.35	ppbv #	80
45) cis-1,3-Dichloropropylene	5.144	75	138768	9.50	ppbv	81
46) 4-Methyl-2-pentanone	5.123	43	156213	9.34	ppbv	88
47) trans-1,3-Dichloroprop...	5.144	75	138768	9.50	ppbv #	77
48) Toluene	5.540	91	283749	9.68	ppbv	100
49) 1,1,2-Trichloroethane	5.678	97	96362	9.98	ppbv	98
50) 1,3-Dichloropropane	5.791	76	142304	9.93	ppbv	96
51) 2-Hexanone	5.797	43	137152	8.12	ppbv	90
52) Dibromochloromethane	6.003	129	180593	10.23	ppbv	98
53) 1,2-Dibromoethane	6.122	107	146521	9.81	ppbv	98

Data Path : C:\MassHunter\GCMS\1\data\2026\7-JULY\071326\
Data File : TQQ003156.D
Acq On : 13 Jul 2026 10:44 am
Operator : YR
Sample : SEQ-CCV1
Misc :
ALS Vial : 1 Sample Multiplier: 1

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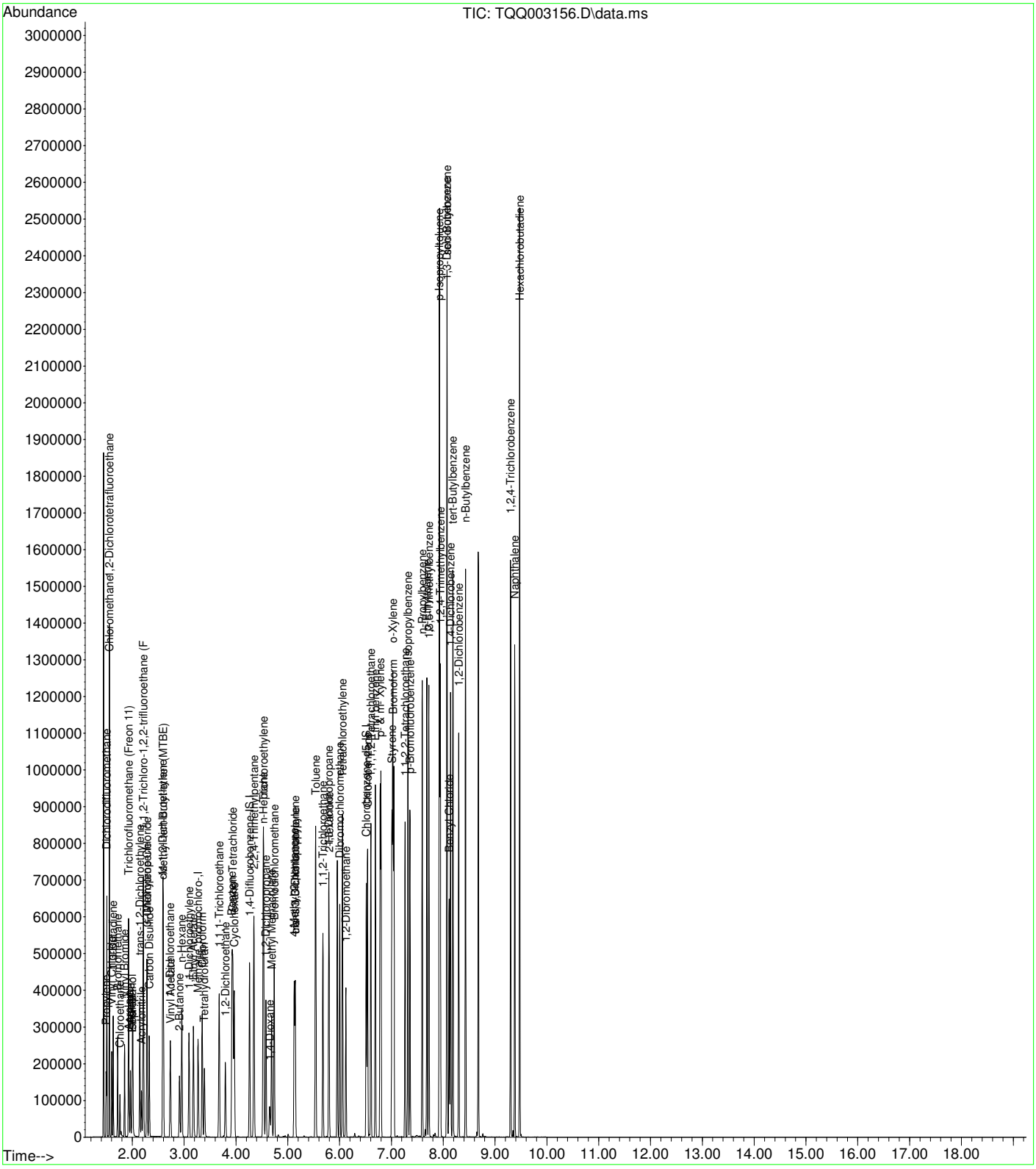
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
54) Tetrachloroethylene	6.057	166	129427	9.83	ppbv	97
56) Chlorobenzene	6.541	112	223953	9.64	ppbv	98
57) 1,1,1,2-Tetrachloroethane	6.605	131	121141	9.57	ppbv	95
58) Ethyl benzene	6.693	91	379823	9.67	ppbv	97
59) p- & m- Xylenes	6.785	91	298922	18.71	ppbv	99
60) Bromoform	7.034	173	173732	10.15	ppbv	99
61) Styrene	7.011	104	236061	9.82	ppbv	87
62) o-Xylene	7.026	91	339428	9.85	ppbv	91
63) 1,1,2,2-Tetrachloroethane	7.265	83	221171	9.80	ppbv	100
64) p-Bromofluorobenzene	7.359	95	149679	9.61	ppbv	94
65) Isopropylbenzene	7.319	105	426990	9.63	ppbv	98
66) n-Propylbenzene	7.594	91	526154	9.85	ppbv	98
67) p-Ethyltoluene	7.684	105	419113	9.57	ppbv	99
68) 1,3,5-Trimethylbenzene	7.724	105	354983	9.80	ppbv	98
69) tert-Butylbenzene	8.186	119	455555	10.04	ppbv #	59
70) 1,2,4-Trimethylbenzene	7.945	105	366327	9.84	ppbv #	24
71) 1,3-Dichlorobenzene	8.069	146	251699	10.38	ppbv	98
72) sec-Butylbenzene	8.074	105	558548	10.52	ppbv	98
73) 1,4-Dichlorobenzene	8.141	146	244235	9.90	ppbv	99
74) Benzyl Chloride	8.114	91	239388	7.34	ppbv	99
75) p-Isopropyltoluene	7.924	119	364353	10.53	ppbv #	59
76) 1,2-Dichlorobenzene	8.297	146	234392	9.66	ppbv	99
77) n-Butylbenzene	8.429	91	465992	10.17	ppbv	98
78) 1,2,4-Trichlorobenzene	9.299	180	218092	9.15	ppbv	97
79) Naphthalene	9.379	128	512070	8.43	ppbv	99
80) Hexachlorobutadiene	9.475	225	196240	10.45	ppbv	91

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

Data Path : C:\MassHunter\GCMS\1\data\2026\7-JULY\071326\
Data File : TQQ003156.D
Acq On : 13 Jul 2026 10:44 am
Operator : YR
Sample : SEQ-CCV1
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 13 11:14:29 2026
Quant Method : C:\MassHunter\GCMS\1\methods\QA4 01JUNE2026(updated070726).m
Quant Title : TO-15
QLast Update : Tue Jul 07 14:14:35 2026
Response via : Initial Calibration



BENCHSHEETS

SDG: 26G0459

CLASS: AIR

METHOD: EPA TO-15

PREPARATION BENCH SHEET : BG60574

Preparation Date: 07/09/2026 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
26G0459-01 A	Q_A_Volatile Organics, EPA TO15 Full List	-7.63	+4.96				
26G0459-02 A	Q_A_Volatile Organics, EPA TO15 Full List	-6.43	+5.63				
26G0459-03 A	Q_A_Volatile Organics, EPA TO15 Full List	-6.84	+5.29				
26G0459-04 A	Q_A_Volatile Organics, EPA TO15 Full List	-6.74	+5.49				
26G0459-05 A	Q_A_Volatile Organics, EPA TO15 Full List	-7.78	+5.87				
BG60574-BLK1	Q_A_Volatile Organics, EPA TO15 Full List	NA	NA				
BG60574-BS1	Q_A_Volatile Organics, EPA TO15 Full List	NA	NA		S26F384		

Spike

Standard/Reagent ID	Description	LotNum	Volume (uL)
S26F384	TO15 AIR LCS/ICV @ 10 ppbv STATIC with ISO	120225	400

Surrogate

Standard/Reagent ID	Description	LotNum	Volume (uL)
S26A172	TO15 AIR SURR @10 PPBV STATIC	1621880_LL-104924	100

Preparations Performed by Yamilex Ramos **Date:** **01/12/2026 14:07**

BENCHSHEETS

SDG: 26G0459

CLASS: AIR

METHOD: EPA TO-15

PREPARATION BENCH SHEET : BG60588

Preparation Date: 07/13/2026 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
26G0459-03RE1 A	Q_A_Volatile Organics, EPA TO15 Full List	-6.84	+5.29				From BG60574 by AM on 07/14/2026
BG60588-BLK1	Q_A_Volatile Organics, EPA TO15 Full List						
BG60588-BS1	Q_A_Volatile Organics, EPA TO15 Full List				S26F384		

Spike

Standard/Reagent ID	Description	LotNum	Volume (uL)
S26F384	TO15 AIR LCS/ICV @ 10 ppbv STATIC with ISO	120225	400

Surrogate

Standard/Reagent ID	Description	LotNum	Volume (uL)
S26A172	TO15 AIR SURR @10 PPBV STATIC	1621880_LL-104924	100

Preparations Performed by Yamilex Ramos **Date:** **01/12/2026 14:07**

Air Sampling Media Request Form

Canister Order No.: 14314

132-02 89th Avenue
Richmond Hill, NY 11418
TEL: 203-325-1371

Alt Ord No.: 1190392
Order Date: 07/01/2026
Requested By: giovanna.deloca

Client **Hydro Tech Environ**
Address 15 Ocean Avenue, Suite 2B
Brooklyn,NY 11225
Phone 718-636-0800

Client Contact: Paul Matli
Hardware Needed: 07/08/2026 am
Expected Return Date: 07/08/2026 17:26
Ship Date:

Delivery Method
York Courier

Drop of Address
152 Graham Avenue,
Brooklyn, NY

Special Instructons:
eight (8) 6-L summa canisters with 6.5 hrs flow controllers

Type of Sample Air

Type	Size	Technique	Flow Rate	Sample Time(hr)	Quantity	IndivCert	Digital Gauge
Canister	6	RestrictedSampling		6.5hr	8	NO	NO

Hardware Details

Lab Number	Type	Serial #	Description	Cert Batch No.	Out Flow Rate (ml/min)	Return Flow Rate (ml/min)	Flow RPD
26G0459-01	**6**	**24115**	**Canister**	**16978**			
26G0459-01	**CS1200ES**	**13564**	**FlowController**		**13.25**	**13.44**	**1.42**
26G0459-02	**6**	**50358**	**Canister**	**16986**			
26G0459-02	**CS1200E**	**20445**	**FlowController**		**13.28**	**20.43**	**42.42**
26G0459-03	**6**	**10013**	**Canister**	**16986**			
26G0459-03	**CS1200E**	**7419**	**FlowController**		**13.24**	**12.85**	**2.99**
26G0459-04	**6**	**24114**	**Canister**	**16978**			
26G0459-04	**CS1200E3**	**7360**	**FlowController**		**13.27**	**13.47**	**1.50**
26G0459-05	**6**	**37400**	**Canister**	**16978**			
26G0459-05	**CS1200E2**	**6878**	**FlowController**		**13.37**	**13.48**	**0.82**
NotUsedByClient	6	19526	Canister	16978			
NotUsedByClient	6	48314	Canister	16975			
NotUsedByClient	6	50994	Canister	16978			
NotUsedByClient	CS1200E	20432	FlowController		13.32		
NotUsedByClient	CS1200E2	7091	FlowController		13.31		
NotUsedByClient	CS1200ES2	16421	FlowController		13.31		
	6		Canister				

Air Laboratory Bench Sheet

Batch BG60574 **Prepared** 07/07/2026 10:08

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.
14314	26G0459-01	24115	-8.00	-8.00	-7.63 InHg	4.96	1.80	750	0.53	0.96	16978
14314	26G0459-02	50358	-7.00	-8.00	-6.43 InHg	5.63	1.76	750	0.53	0.94	16986
14314	26G0459-03	10013	-8.00	-8.00	-6.84 InHg	5.29	1.76	750	0.53	0.94	16986
14314	26G0459-04	24114	-8.00	-7.00	-6.74 InHg	5.49	1.77	750	0.53	0.94	16978
14314	26G0459-05	37400	-9.00	-9.00	-7.78 InHg	5.87	1.89	750	0.53	1.01	16978

Air Laboratory Batch Certfication Report
Canister Order No.(s): 14314

Cleaning Batch: 16978

6/18/2026 9:44:00 PM

Cert Run Analysis Date:	06/18/26 21:44	**Certification RunID:**	HPCHEM_BF61418	**Analyst:**	HEngelmeyer
Certifiction Date:	06/24/26	**Cert Run File:**	TQQ002733.D	**Heating Unit:**	2
Prep Date:	06/15/26 09:39	**Method Blank SN:**	50924	**Cleaning Cycles:**	15

Can			Leak Check					
Lab#	**Serial #**	**Vol**	**InitalP**	**Date/Time**	**FinalP**	**Date/Time**	**Analyzed**	**Pass**
26G0459-01	24115	6	-30.00	06/16/26 08:51	-30.00	06/24/26 07:56	NO	YES
26G0459-04	24114	6	-30.00	06/16/26 08:51	-30.00	06/24/26 07:56	NO	YES
26G0459-05	37400	6	-30.00	06/16/26 08:51	-30.00	06/24/26 07:56	NO	YES
QBS	28836	6	-30.00	06/16/26 08:51	-30.00	06/24/26 07:56	YES	YES

Cleaning Batch: 16986

6/18/2026 11:22:00 PM

Cert Run Analysis Date:	06/18/26 23:22	**Certification RunID:**	HPCHEM_BF61418	**Analyst:**	HEngelmeyer
Certifiction Date:	06/24/26	**Cert Run File:**	TQQ002735.D	**Heating Unit:**	4
Prep Date:	06/17/26 11:55	**Method Blank SN:**	50924	**Cleaning Cycles:**	15

Can			Leak Check					
Lab#	**Serial #**	**Vol**	**InitalP**	**Date/Time**	**FinalP**	**Date/Time**	**Analyzed**	**Pass**
26G0459-02	50358	6	-30.00	06/18/26 09:20	-30.00	06/24/26 07:54	NO	YES
26G0459-03	10013	6	-30.00	06/18/26 09:20	-30.00	06/24/26 07:54	NO	YES
QBS	53072	6	-30.00	06/18/26 09:20	-30.00	06/24/26 07:54	YES	YES

Air Laboratory QBS Report

Canister Order No.(s): 14314

Cert Batch No.: 16978
Lims Batch ID: BF61418
Instrument: HPCHEM
File Id: BF61418-BLK1
Analysis: EPA TO-15

Can Serial No.: 28836
Analyst: YR
Analysis Date: 06/18/26 21:44
File Id: TQQ002733.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
ISTD: 1,4-Difluorobenzene	10	ppbv		ug/m3		ppbv
ISTD: Bromochloromethane	10	ppbv		ug/m3		ppbv

Air Laboratory QBS Report

Canister Order No.(s): 14314

Cert Batch No.: 16978
Lims Batch ID: BF61418
Instrument: HPCHEM
File Id: BF61418-BLK1
Analysis: EPA TO-15

Can Serial No.: 28836
Analyst: YR
Analysis Date: 06/18/26 21:44
File Id: TQQ002733.D

Analyte	Result	Units	Result wt/Vol	wt/Vol units	MRL	Units
ISTD: d5-Chlorobenzene	10	ppbv		ug/m3		ppbv
Methyl Methacrylate	ND	ppbv	ND	ug/m3	0.10	ppbv
Methyl tert-butyl ether (MTBE)	ND	ppbv	ND	ug/m3	0.10	ppbv
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

Quantitation Report (QT Reviewed)

Data Path : C:\MassHunter\GCMS\1\data\2026\6-JUNE\061826\
Data File : TQQ002733.D
Acq On : 18 Jun 2026 09:44 pm
Operator : YR
Sample : BF61418-BLK1
Misc : QBS 16978
ALS Vial : 1 Sample Multiplier: 1

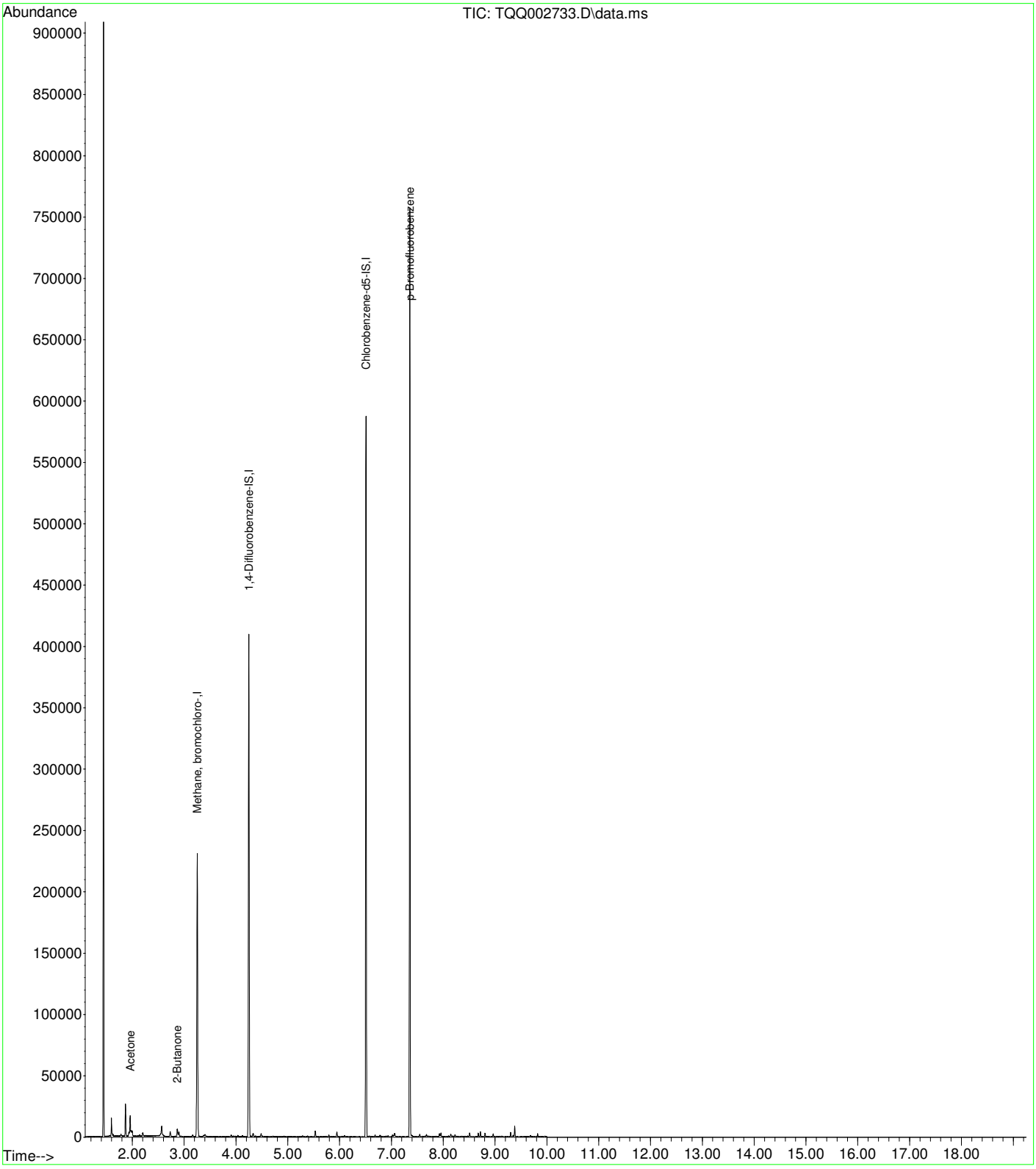
Quant Time: Jun 19 08:16:21 2026
Quant Method : C:\MassHunter\GCMS\1\methods\QA4 01JUNE2026.m
Quant Title : TO-15
QLast Update : Mon Jun 01 16:58:07 2026
Response via : Initial Calibration

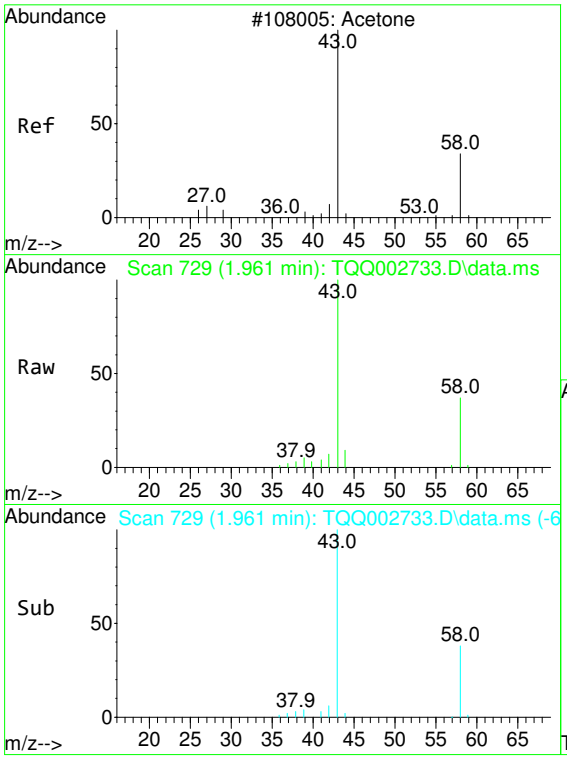
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Methane, bromochloro-	3.251	130	50972	10.00	ppbv	# 0.00
38) 1,4-Difluorobenzene-IS	4.250	114	193433	10.00	ppbv	0.00
55) Chlorobenzene-d5-IS	6.511	117	175746	10.00	ppbv	0.00
Target Compounds						Qvalue
14) Acetone	1.961	58	2728	0.81	ppbv	76
26) 2-Butanone	2.867	72	1059	0.27	ppbv #	1
64) p-Bromofluorobenzene	7.355	95	132394	9.79	ppbv	94

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

Data Path : C:\MassHunter\GCMS\1\data\2026\6-JUNE\061826\
Data File : TQQ002733.D
Acq On : 18 Jun 2026 09:44 pm
Operator : YR
Sample : BF61418-BLK1
Misc : QBS 16978
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 19 08:16:21 2026
Quant Method : C:\MassHunter\GCMS\1\methods\QA4 01JUNE2026.m
Quant Title : TO-15
QLast Update : Mon Jun 01 16:58:07 2026
Response via : Initial Calibration

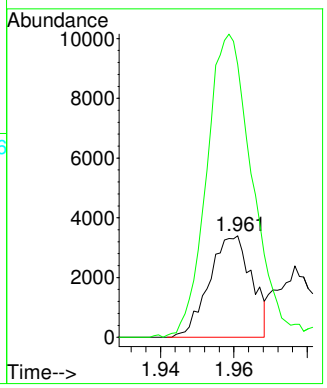


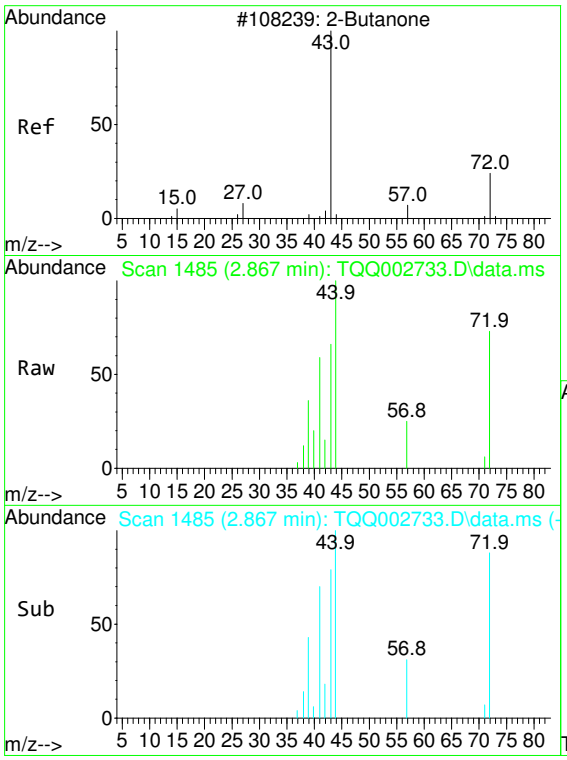


#14
Acetone
Concen: 0.81 ppbv
RT: 1.961 min Scan# 729
Delta R.T. 0.007 min
Lab File: TQQ002733.D
Acq: 18 Jun 2026 09:44 pm

Tgt Ion: 58 Resp: 2728

Ion	Ratio	Lower	Upper
58	100		
43	320.7	0.0	750.2

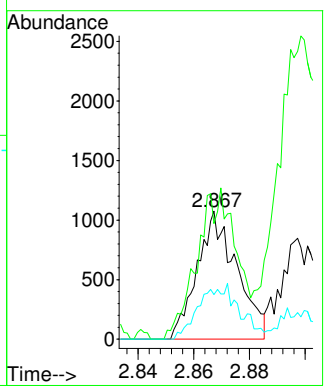


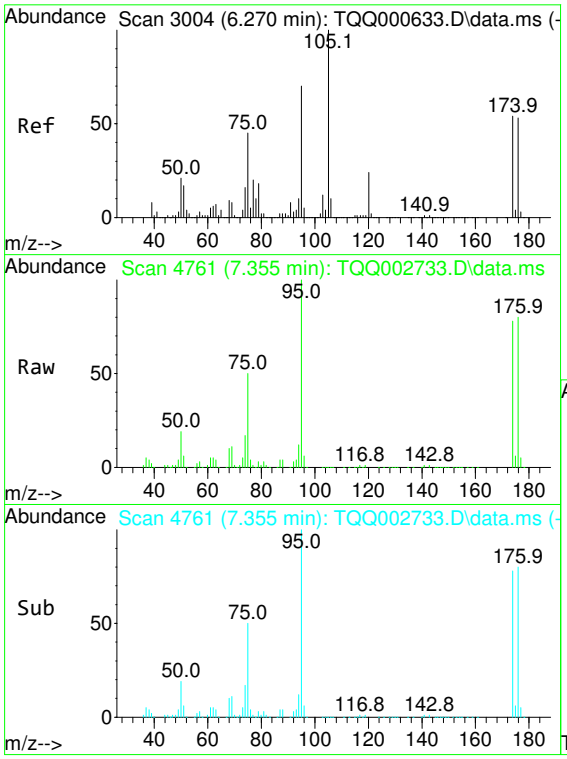


#26
2-Butanone
Concen: 0.27 ppbv
RT: 2.867 min Scan# 1485
Delta R.T. -0.024 min
Lab File: TQQ002733.D
Acq: 18 Jun 2026 09:44 pm

Tgt Ion: 72 Resp: 1059

Ion	Ratio	Lower	Upper
72	100		
43	56.0	459.1	688.7#
57	0.0	253.0	379.4#

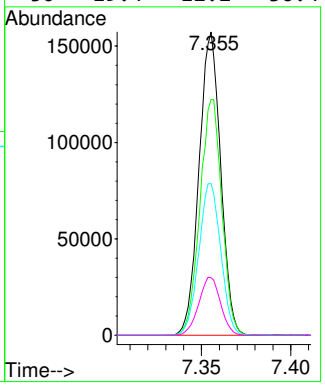




#64
p-Bromofluorobenzene
Concen: 9.79 ppbv
RT: 7.355 min Scan# 4761
Delta R.T. 0.000 min
Lab File: TQQ002733.D
Acq: 18 Jun 2026 09:44 pm

Tgt Ion: 95 Resp: 132394

Ion	Ratio	Lower	Upper
95	100		
174	78.8	58.4	87.6
75	51.0	38.6	58.0
50	19.4	12.2	36.4



Air Laboratory QBS Report

Canister Order No.(s): 14314

Cert Batch No.: 16986
Lims Batch ID: BF61418
Instrument: HPCHEM
File Id: BF61418-BLK3
Analysis: EPA TO-15

Can Serial No.: 53072
Analyst: YR
Analysis Date: 06/18/26 23:22
File Id: TQQ002735.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
ISTD: 1,4-Difluorobenzene	10	ppbv		ug/m3		ppbv
ISTD: Bromochloromethane	10	ppbv		ug/m3		ppbv

Air Laboratory QBS Report

Canister Order No.(s): 14314

Cert Batch No.: 16986
Lims Batch ID: BF61418
Instrument: HPCHEM
File Id: BF61418-BLK3
Analysis: EPA TO-15

Can Serial No.: 53072
Analyst: YR
Analysis Date: 06/18/26 23:22
File Id: TQQ002735.D

Analyte	Result	Units	Result wt/Vol	wt/Vol units	MRL	Units
ISTD: d5-Chlorobenzene	10	ppbv		ug/m3		ppbv
Methyl Methacrylate	ND	ppbv	ND	ug/m3	0.10	ppbv
Methyl tert-butyl ether (MTBE)	ND	ppbv	ND	ug/m3	0.10	ppbv
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

Quantitation Report (QT Reviewed)

Data Path : C:\MassHunter\GCMS\1\data\2026\6-JUNE\061826\
Data File : TQQ002735.D
Acq On : 18 Jun 2026 11:22 pm
Operator : YR
Sample : BF61418-BLK3
Misc : QBS 16986
ALS Vial : 1 Sample Multiplier: 1

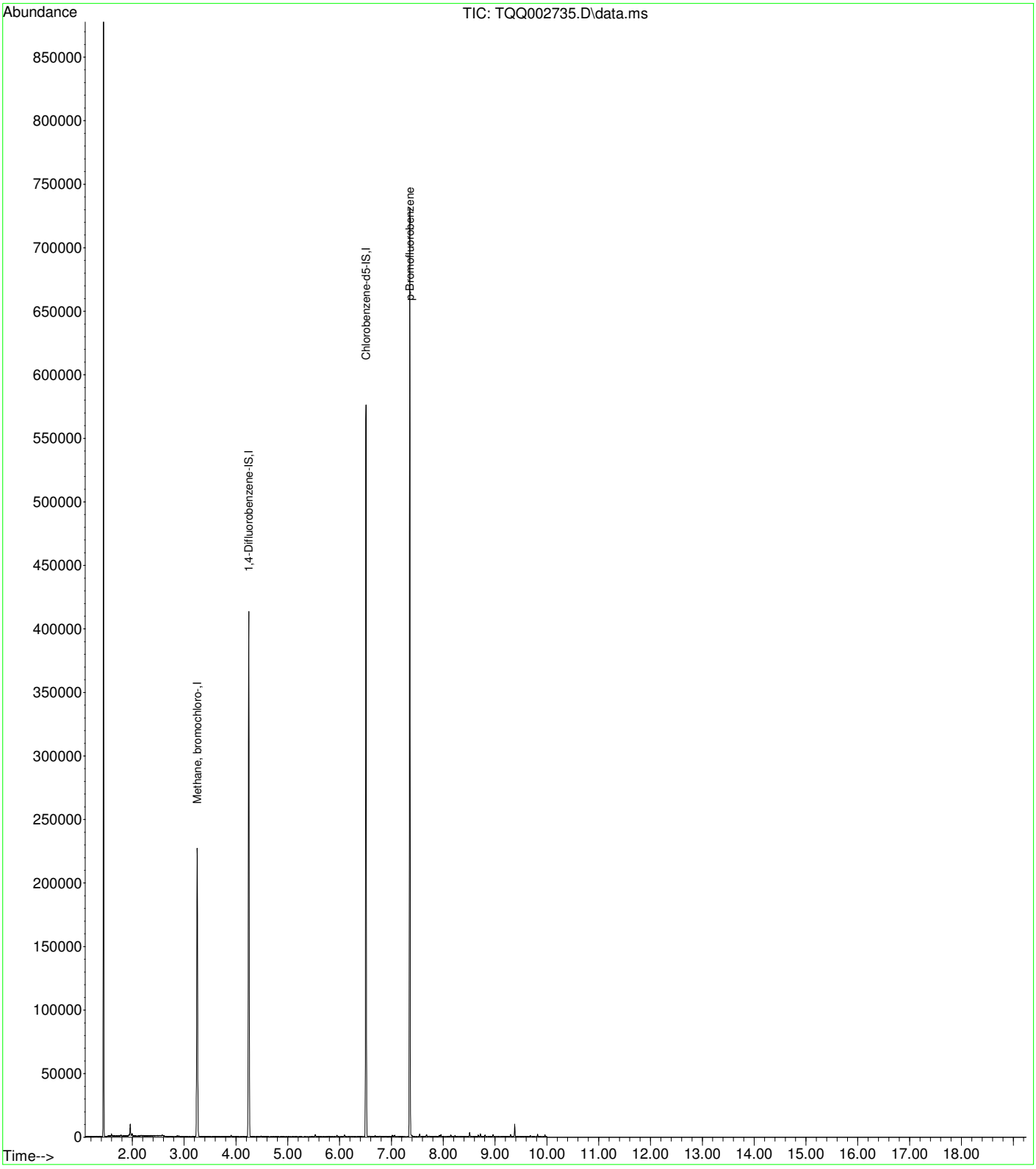
Quant Time: Jun 19 08:17:15 2026
Quant Method : C:\MassHunter\GCMS\1\methods\QA4 01JUNE2026.m
Quant Title : TO-15
QLast Update : Mon Jun 01 16:58:07 2026
Response via : Initial Calibration

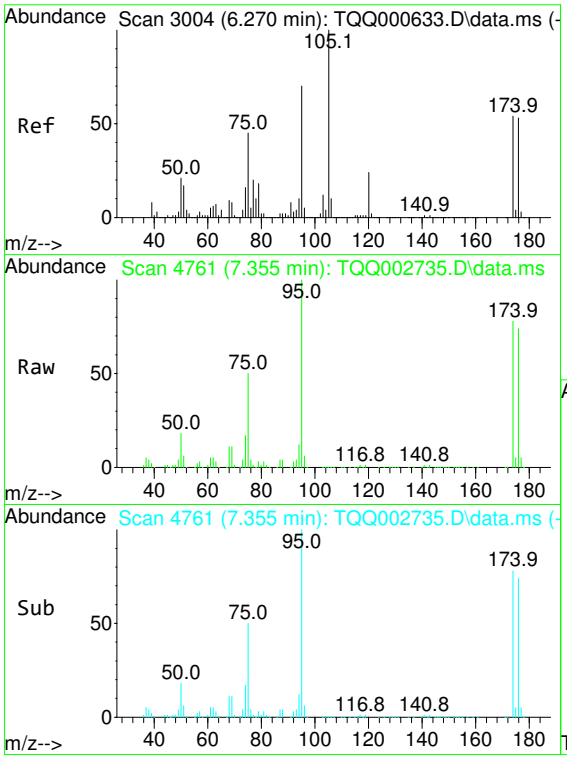
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Methane, bromochloro-	3.250	130	50468	10.00	ppbv	# 0.00
38) 1,4-Difluorobenzene-IS	4.246	114	195169	10.00	ppbv	0.00
55) Chlorobenzene-d5-IS	6.511	117	174152	10.00	ppbv	0.00
Target Compounds						Qvalue
64) p-Bromofluorobenzene	7.355	95	130632	9.75	ppbv	93

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

Data Path : C:\MassHunter\GCMS\1\data\2026\6-JUNE\061826\
Data File : TQQ002735.D
Acq On : 18 Jun 2026 11:22 pm
Operator : YR
Sample : BF61418-BLK3
Misc : QBS 16986
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 19 08:17:15 2026
Quant Method : C:\MassHunter\GCMS\1\methods\QA4 01JUNE2026.m
Quant Title : TO-15
QLast Update : Mon Jun 01 16:58:07 2026
Response via : Initial Calibration

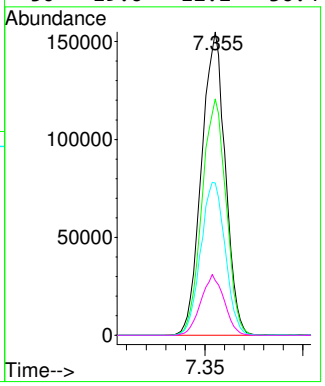




#64
p-Bromofluorobenzene
Concen: 9.75 ppbv
RT: 7.355 min Scan# 4761
Delta R.T. 0.000 min
Lab File: TQQ002735.D
Acq: 18 Jun 2026 11:22 pm

Tgt Ion: 95 Resp: 130632

Ion	Ratio	Lower	Upper
95	100		
174	78.9	58.4	87.6
75	51.9	38.6	58.0
50	19.6	12.2	36.4



Field Chain-of-Custody Record - AIR

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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. 26G0459

YOUR Information	Report To:	Invoice To:	YOUR Project Number	Turn-Around Time
Company: Hydrotech Env. Eng. Geol	Company: SAME	Company: SAME	240052	RUSH - Next Day
Address: 291 W 29 St New York NY	Address:	Address:	YOUR Project Name: 152 Graham Avenue Brooklyn NY	RUSH - Two Day
Phone: 6312417165	Phone:	Phone:		RUSH - Three Day
Contact: Paul Math	Contact:	Contact:		RUSH - Four Day
E-mail:	E-mail:	E-mail:	YOUR PO#: 53269	RUSH - Five Day ✓
				Standard (6-9 Day)

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.

Eric Gaj

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
New Jersey
Connecticut
Pennsylvania
Other:

Report / EDD Type (circle selections)
Summary Report, QA Report, NY ASP A Package, NY ASP B Package, CT RCP, CT RCP DQA/DUE, NJDEP Reduced Deliverables, NJDKQP, Standard Excel EDD, EQuIS (Standard), NYSDEC EQuIS, 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/m³ ___ 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
IA-7 20260708	7/8/26 8:35	2:02	AI	-30	-8	24115	13564	6	EPA TO-15
IA-8	8:45	12:27		-30	-7	50358	20445		
IA-9	8:45	2:27		-30	-8	10013	07419		
IA-10	8:50	2:28		-30	-8	24114	7360		
OA-2	8:57	2:14	AO	-30	-9	37402	6870		

Comments: Min RL ≤ 0.2 ug/m³ Matrix A SC ≤ 0.1 ug/m³ Matrix B

Container Ship Date:

Detection Limits Required
≤ 1 ug/m3 _____ NYSDEC V1 Limits _____
Routine Survey ___ Other See Comments

1. Samples Relinquished by / Company	Date/Time	2. Samples Received by / Company	Date/Time
Eric Gaj Egaj	7/8/26	ALS	7/8/26 1545
2. Samples Received by / Company	Date/Time	3. Samples Relinquished by / Company	Date/Time
ALS	7/8/26 17:49		
3. Samples Relinquished by / Company	Date/Time	4. Samples Received by / Company	Date/Time
			7/8/26 17:49

Date / Time Temperature