



SHIPPING DOCUMENTS

Client Contact Information				Bottle Order ID : B2501005				Courier : <u>FGALDUN</u>				1 of 6 COCs			
Client ID : GFEL01 Project ID : 10 Woodbine CT, Floral Park NY				Sampler Name(s) : <u>FRANK GILDUN</u>				Analysis				Matrix			
Customer Name : GFE LLC Address : 58 Nokomis Ave				Project Manager : FRANK GILDUN				AIR ANALYSIS CHAIN-OF-CUSTODY Batch Certified							
				Phone Number : 646-542-3465											
				Fax Number : 973-334-1692											
				Site Details: <u>720 W. 181ST ST. NY, NY</u>											
City : Lake Hiawatha				Analysis Turnaround Time <u>5 DAY</u>				Data Package Type : <u>RESULTS ONLY</u>							
State : NJ				Standard : 10 business days OR											
Zip Code : 07034				Rush (Specify): <u>5</u> Days				EDD Type : <u>PDF</u>							
Country :															

Sample Identification	Sample Date(s)	Time Start (24 hr Clock)	Time Stop (24 hr Clock)	Can Vacuum in Field ("Hg) (Start)	Can Vacuum in Field ("Hg) (Stop)**	Interior Temp. (F) (Start)	Interior Temp. (F) (Stop)	Out going Can Pressure ("Hg)(Lab)	In coming Can Pressure ("Hg)(Lab)	Flow Reg. ID	Can ID		Flow Controller Readout (ml/min)	Can Cert ID	(TO-15)			Indoor/Ambient Air	Soil Gas
SV1	11/1/24	8:38	10:30	30	5	69	69	-30	-5.5	10616	10439	6 L	50	VL041612.D	1				1

Temperature (Fahrenheit)				
	Ambient	Maximum	Minimum	
Start				
Stop				

Pressure (Inches of Hg)				
	Ambient	Maximum	Minimum	
Start				
Stop				

GC/MS Analyst Signature (TO-15) [Signature]

** Submittal of this COC indicates approval of the analysis based on existing conditions.

REPORT ONLY PCE, TCE, cis-1,2-DCE, 1,1,1-TCA, 1,1-DCE, VINYL CHLORIDE

Please follow the instructions on the back of this COC.

Special Instructions/QC Requirements & Comments :

Suspected Contamination: High Medium Low PID Readings: 0.0

Sampling site (State):

Quick Connector required : No

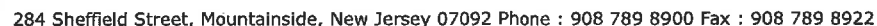
Canisters Shipped by: <u>Sally</u>	Date/Time: <u>01/10/25</u>	Canisters Received by: <u>[Signature]</u>	Date/Time: <u>1-13-25 0700</u>
Samples Relinquished by: <u>[Signature]</u>	Date/Time: <u>1/11/25</u>	Received by:	Date/Time:
Relinquished by:	Date/Time:	Received by:	Date/Time:

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Client Contact Information				Bottle Order ID : B2501005				Courier : FGALDUN				2 of 6 COCs																												
Client ID : GFEL01 Project ID : 10 Woodbine CT, Floral Park NY				Sampler Name(s) : FRANK GALDUN				Analysis				Matrix																												
Customer Name : GFE LLC Address : 58 Nokomis Ave City : Lake Hiawatha State : NJ Zip Code : 07034 Country :				Project Manager : FRANK GALDUN				AIR ANALYSIS CHAIN-OF-CUSTODY Batch Certified																																
				Phone Number : 646-542-3465																																				
				Fax Number : 973-334-1692																																				
				Site Details: 720 W. 181st ST NY, NY																																				
Analysis Turnaround Time 5 DAY				Standard : 10 business days OR				Data Package Type : RESULTS ONLY																																
Rush (Specify): 5 Days				EDD Type : PDF																																				
Sample Identification	Sample Date(s)	Time Start (24 hr Clock)	Time Stop (24 hr Clock)	Can Vacuum in Field ("Hg) (Start)	Can Vacuum in Field ("Hg) (Stop)**	Interior Temp. (F) (Start)	Interior Temp. (F) (Stop)	Out going Can Pressure ("Hg)(Lab)	In coming Can Pressure ("Hg)(Lab)	Flow Reg. ID	Can ID	Flow Controller Readout (ml/min)	Can Cert ID	TO-15	Indoor/Ambient Air	Soil Gas																								
SUZ	11/24/2010	8:40	10:40	30	3.5	69	69	-30	-67	10109	10321	6 L	50	VL041612.D																										
Temperature (Fahrenheit) <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td></td> <td>Ambient</td> <td>Maximum</td> <td>Minimum</td> </tr> <tr> <td>Start</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Stop</td> <td></td> <td></td> <td></td> </tr> </table> Pressure (Inches of Hg) <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td></td> <td>Ambient</td> <td>Maximum</td> <td>Minimum</td> </tr> <tr> <td>Start</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Stop</td> <td></td> <td></td> <td></td> </tr> </table>											Ambient	Maximum	Minimum	Start				Stop					Ambient	Maximum	Minimum	Start				Stop				GC/MS Analyst Signature (TO-15) Suz						
	Ambient	Maximum	Minimum																																					
Start																																								
Stop																																								
	Ambient	Maximum	Minimum																																					
Start																																								
Stop																																								
** Submittal of this COC indicates approval of the analysis based on existing conditions. REPORT ONLY: PCE, TCE, cis-1,2-DCE, 1,1-DCE, 1,1,1-TCA, VINYL CHLORIDE Please follow the instructions on the back of this COC.																																								
Special Instructions/QC Requirements & Comments :																																								
Suspected Contamination: High Medium Low PID Readings: 0.0																																								
Sampling site (State):																																								
Quick Connector required : NO																																								
Canisters Shipped by: SUZ				Date/Time: 11/10/25				Canisters Received by: SUZ				Date/Time: 1-13-25 0700																												
Samples Relinquished by: FRANK				Date/Time: 11/11/25				Received by:				Date/Time:																												
Relinquished by:				Date/Time:				Received by:				Date/Time:																												

Client Contact Information				Bottle Order ID : B2501005				Courier : <u>FGALDUN</u>				<u>3</u> of <u>6</u> COCs					
Client ID : GFEL01 Project ID : 10 Woodbine CT, Floral Park NY				Project Manager : FRANK GALDUN				Sampler Name(s) : <u>FRANK GALDUN</u>				Analysis		Matrix			
Customer Name : GFE LLC Address : 58 Nokomis Ave				Phone Number : 646-542-3465				AIR ANALYSIS CHAIN-OF-CUSTODY Batch Certified									
				Fax Number : 973-334-1692													
				Site Details: <u>720 W. 181ST ST. NY, NY</u>													
City : Lake Hiawatha																	
State : NJ				Analysis Turnaround Time <u>5 DAY</u>													
Zip Code : 07034				Standard : 10-business days OR				Data Package Type : <u>RESULTS ONLY</u>									
Country :				Rush (Specify): <u>5</u> Days				EDD Type : <u>IDE</u>									
Sample Identification	Sample Date(s)	Time Start (24 hr Clock)	Time Stop (24 hr Clock)	Can Vacuum in Field ("Hg) (Start)	Can Vacuum in Field ("Hg) (Stop)**	Interior Temp. (F) (Start)	Interior Temp. (F) (Stop)	Out going Can Pressure ("Hg)(Lab)	In coming Can Pressure ("Hg)(Lab)	Flow Reg. ID	Can ID		Flow Controller Readout (ml/min)	Can Cert ID	<u>TO-15</u>	Indoor/Ambient Air	Soil Gas
<u>SV3</u>	<u>11/12/25</u>	<u>8:55</u>	<u>10:55</u>	<u>30</u>	<u>5</u>	<u>70</u>	<u>70</u>	<u>-30</u>	<u>-6.7</u>	<u>10185</u>	<u>10602</u>	<u>6 L</u>	<u>50</u>	<u>VL041612.D</u>	<u>1</u>		<u>1</u>
Temperature (Fahrenheit)										GC/MS Analyst Signature (TO-15) <u>[Signature]</u>							
		Ambient	Maximum	Minimum													
Start																	
Stop																	
Pressure (Inches of Hg)										** Submittal of this COC indicates approval of the analysis based on existing conditions. <u>REPORT ONLY: TCE, PCE, cis-1,2-DCE, 1,1-DCE, 1,1,1-TCA, VINYL CHLORIDE</u> Please follow the instructions on the back of this COC.							
		Ambient	Maximum	Minimum													
Start																	
Stop																	
Special Instructions/QC Requirements & Comments :																	
Suspected Contamination: High Medium <u>Low</u> PID Readings: <u>0.0</u>																	
Sampling site (State):																	
Quick Connector required : <u>NO</u>																	
Canisters Shipped by: <u>Sam</u>				Date/Time: <u>11/12/25</u>				Canisters Received by: <u>AG</u>				Date/Time: <u>1-13-25 0700</u>				B2501005 - 11	
Samples Relinquished by: <u>Sam</u>				Date/Time: <u>11/12/25</u>				Received by:				Date/Time:					
Relinquished by:				Date/Time:				Received by:				Date/Time:					

Client Contact Information				Bottle Order ID : B2501005				Courier : F GALDUN				4 of 6 COCs				
Client ID : GFEL01 Project ID : 10 Woodbine CT, Floral Park NY				Sampler Name(s) : FRANK GALDUN				Analysis				Matrix				
Customer Name : GFE LLC Address : 58 Nokomis Ave City : Lake Hiawatha State : NJ Zip Code : 07034 Country :				Project Manager : FRANK GALDUN				AIR ANALYSIS CHAIN-OF-CUSTODY Individual Certified								
				Phone Number : 646-542-3465												
				Fax Number : 973-334-1692												
				Site Details: 720 W. 181ST ST. NY, NY												
Analysis Turnaround Time 5 DAY				Standard : 10-business days OR				Data Package Type : RESULTS ONLY								
Rush (Specify): 5 Days				EDD Type : RDF												
Sample Identification	Sample Date(s)	Time Start (24 hr Clock)	Time Stop (24 hr Clock)	Can Vacuum in Field ("Hg) (Start)	Can Vacuum in Field ("Hg) (Stop)**	Interior Temp. (F) (Start)	Interior Temp. (F) (Stop)	Out going Can Pressure ("Hg)(Lab)	In coming Can Pressure ("Hg)(Lab)	Flow Reg. ID	Can ID	Flow Controller Readout (ml/min)	Can Cert ID	TO-15	Indoor Ambient Air	Soil Gas
IA1	11/25	8:19	11:19	29	0	69	69	-30	-3.1	10690	10596	6 L	12.5	VL041507.D	1	1
Temperature (Fahrenheit)										GC/MS Analyst Signature (TO-15) [Signature]						
		Ambient	Maximum	Minimum												
Start																
Stop																
Pressure (Inches of Hg)										** Submittal of this COC indicates approval of the analysis based on existing conditions. REPORT ONLY: PCE, TCE, cis-1,2-DCE, 1,1-DCE, 1,1,1-TCA, VINYLCHLORIDE Please follow the instructions on the back of this COC.						
		Ambient	Maximum	Minimum												
Start																
Stop																
Special Instructions/QC Requirements & Comments :																
Suspected Contamination: High Medium Low PID Readings: 0, 0																
Sampling site (State):																
Quick Connector required : N/D																
Canisters Shipped by: [Signature]				Date/Time: 11/19/25				Canisters Received by: [Signature]				Date/Time: 1-13-25 0700				B2501005 - 8
Samples Relinquished by: [Signature]				Date/Time: 11/19/25				Received by:				Date/Time:				
Relinquished by:				Date/Time:				Received by:				Date/Time:				



Q1073

Client Contact Information						Bottle Order ID : B2501005				Courier : F GALDUN				5 of 6 COCs			
Client ID : GFEL01 Project ID : 10 Woodbine Ct, Floral Park NY						Sampler Name(s) : FRANK GALDUN				Analysis Matrix							
Customer GFE LLC Name : Address : 58 Nokomis Ave City : Lake Hiawatha State : NJ Zip Code : 07034 Country :						Project Manager : FRANK GALDUN				AIR ANALYSIS CHAIN-OF-CUSTODY Batch Certified							
						Phone Number : 646-542-3465											
						Fax Number : 973-334-1692											
						Site Details: 720 W. 181ST ST. NY, NY											
						Analysis Turnaround Time 5 DAY				Data Package Type : RESULTS ONLY EDD Type : PDF							
						Standard : 10 business days OR											
						Rush (Specify): 5 Days											
Sample Identification	Sample Date(s)	Time Start (24 hr Clock)	Time Stop (24 hr Clock)	Can Vacuum in Field ("Hg) (Start)	Can Vacuum in Field ("Hg) (Stop)**	Interior Temp. (F) (Start)	Interior Temp. (F) (Stop)	Out going Can Pressure ("Hg)(Lab)	In coming Can Pressure ("Hg)(Lab)	Flow Reg. ID	Can ID		Flow Controller Readout (ml/min)	Can Cert ID	TO-15	Indoor Ambient Air	Soil Gas
IA2	11/13/25	8:21	4:21	OVER 30	4	69	69	-30	-4.3	10514	10296	6 L	12.5	VL041612.D	1	1	
Temperature (Fahrenheit)										GC/MS Analyst Signature (TO-15) [Signature]							
		Ambient	Maximum	Minimum													
Start																	
Stop																	
Pressure (Inches of Hg)										** Submittal of this COC indicates approval of the analysis based on existing conditions. REPORT ONLY: PLE, TOE, cis-1,2-DCE, 1,1-DCE, 1,1,1-TCA, VINYL CHLORIDE Please follow the instructions on the back of this COC.							
		Ambient	Maximum	Minimum													
Start																	
Stop																	
Special Instructions/QC Requirements & Comments :																	
Suspected Contamination: High Medium Low PID Readings: 0,0																	
Sampling site (State):																	
Quick Connector required :																	
Canisters Shipped by: Sam				Date/Time: 11/13/25				Canisters Received by: [Signature]				Date/Time: 1-13-25 0700					
Samples Relinquished by: EN				Date/Time: 11/13/25				Received by:				Date/Time:					
Relinquished by:				Date/Time:				Received by:				Date/Time:					
B2501005 - 3																	

Client Contact Information				Bottle Order ID : B2501005				Courier : F GALDUN				6 of 6 COCs							
Client ID : GFEL01 Project ID : 10 Woodbine CT, Floral Park NY				Sampler Name(s) : FRANK GALDUN				Analysis				Matrix							
Customer Name : GFE LLC Address : 58 Nokomis Ave City : Lake Hiawatha State : NJ Zip Code : 07034 Country :				Project Manager : FRANK GALDUN				AIR ANALYSIS CHAIN-OF-CUSTODY Batch Certified											
				Phone Number : 646-542-3465															
				Fax Number : 973-334-1692															
				Site Details: 720 W. 181ST ST. NY, NY															
Analysis Turnaround Time 5 DAY				Standard : 10 business days OR				Data Package Type : RESULTS ONLY											
Rush (Specify): 5 Days				EDD Type : PDF															
Sample Identification	Sample Date(s)	Time Start (24 hr Clock)	Time Stop (24 hr Clock)	Can Vacuum in Field ("Hg) (Start)	Can Vacuum in Field ("Hg) (Stop)**	Interior Temp. (F) (Start)	Interior Temp. (F) (Stop)	Out going Can Pressure ("Hg)(Lab)	In coming Can Pressure ("Hg)(Lab)	Flow Reg. ID	Can ID		Flow Controller Readout (ml/min)	Can Cert ID	TO-15	Indoor/Ambient Air	Soil Gas		
IA3	11/15/25	8:23	10:23	30	6	70	70	-30	-7.1	10485	10333	6 L	12.5	VL041612.D	1	1			
Temperature (Fahrenheit)										GC/MS Analyst Signature (TO-15) [Signature]									
		Ambient	Maximum	Minimum															
Start																			
Stop																			
Pressure (Inches of Hg)										** Submittal of this COC indicates approval of the analysis based on existing conditions. REPORT ONLY: PCE, TCE, cis-1,2-DCE, 1,1-DCE, 1,1,1-TCA, VINYL CHLORIDE Please follow the instructions on the back of this COC.									
		Ambient	Maximum	Minimum															
Start																			
Stop																			
Special Instructions/QC Requirements & Comments :																			
Suspected Contamination: High Medium Low PID Readings: 0.0																			
Sampling site (State):																			
Quick Connector required : No																			
Canisters Shipped by: Sam				Date/Time: 11/10/25				Canisters Received by: [Signature]				Date/Time: 11-13-25 0700				B2501005 - 6			
Samples Relinquished by: F.R.				Date/Time: 11/11/25				Received by:				Date/Time:							
Relinquished by:				Date/Time:				Received by:				Date/Time:							



284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

Laboratory Certification

Certified By	License No.
CAS EPA CLP Contract	68HERH20D0011
Connecticut	PH-0830
DOD ELAP (ANAB)	L2219
Maine	2024021
Maryland	296
New Hampshire	255424 Rev 1
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	525-24-234-08441
Texas	T104704488

Internal Chain of Custody

Instructions: Use 1 form for each 20 samples of aliquot

Laboratory Person Breaking Field Seal on Sample Shuttle & Accepting Responsibility for Sample

Laboratory: Chemtech

Location: 284 Sheffield Street, Mountainside, NJ 7092

~~Seal~~

Field Sample Seal No. Q1073

Case No.: Z20 W, 181st NY, NY

Title: Sample Custodian

Date Broken: 4/13/2025

Analytical Parameter/Fraction: MOCMS Group3

Military Time Seal Broken: 07:00:00

Sample No.	Aliquot/Extract No.	Sample No.	Aliquot/Extract No.
Q1073-01	SV1		
Q1073-02	SV2		
Q1073-03	SV3		
Q1073-04	IA1		
Q1073-05	IA2		
Q1073-06	IA3		

Date	Time	Relinquished By	Received By	Purpose of Change of Custody
11/3	1050	Signature Printed Name Garrett V.	Signature Printed Name Sydney W.	
		Signature Printed Name	Signature Printed Name	
		Signature Printed Name	Signature Printed Name	
		Signature Printed Name	Signature Printed Name	
		Signature Printed Name	Signature Printed Name	
		Signature Printed Name	Signature Printed Name	
		Signature Printed Name	Signature Printed Name	
		Signature Printed Name	Signature Printed Name	
		Signature Printed Name	Signature Printed Name	
		Signature Printed Name	Signature Printed Name	

DATA REPORTING QUALIFIERS- ORGANIC

For reporting results, the following “ Results Qualifiers” are used:

Value	If the result is a value greater than or equal to the detection limit, report the value
U	Indicates the compound was analyzed for but was not detected. Report the minimum detection limit for the sample with the U, i.e. “10 U”. This is not necessarily the instrument detection limit attainable for this particular sample based on any concentration or dilution that may have been required.
ND	Indicates the analyte was analyzed for, but not detected
J	Indicates an estimated value. This flag is used: (1) When estimating a concentration for a tentatively identified compound (library search hits, where a 1:1 response is assumed.) (2) When the mass spectral data indicated the identification, however the result was less than the specified detection limit greater than zero. If the detection limit was 10ug/L and a concentration of 3 ug/L was calculated report as 3 J. This flag is used when similar situation arise on any organic parameter i.e. Pest, PCB and others.
B	Indicates the analyte was found in the blank as well as the sample report as “12 B”.
E	Indicates the analyte ‘s concentration exceeds the calibrated range of the instrument for that specific analysis.
D	This flag identifies all compounds identified in an analysis at a secondary dilution factor.
P	This flag is used for Pesticide/PCB target analyte when there is >25% difference for detected concentrations between the two GC columns. The lower of the two values is reported on Form 1 and flagged with a “P”.
N	This flag indicates presumptive evidence of a compound. This is only used for tentatively identified compounds (TICs), where the identification is based on a mass spectral library search. It applies to all TIC results. For generic characterization of a TIC, such as chlorinated hydrocarbon, the flag is not used.
A	This flag indicates that a Tentatively Identified Compound is a suspected aldol-condensation product.
Q	Indicates the LCS did not meet the control limits requirements

LAB CHRONICLE

OrderID:	Q1073	OrderDate:	1/13/2025 10:11:00 AM
Client:	GFE LLC	Project:	720 W. 181st NY, NY
Contact:	Frank Galdun	Location:	Air Lab, VOA Lab

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q1073-01	SV1	Air	VOCMS Group3	TO-15	01/11/25		01/14/25	01/13/25
Q1073-02	SV2	Air	VOCMS Group3	TO-15	01/11/25		01/14/25	01/13/25
Q1073-03	SV3	Air	VOCMS Group3	TO-15	01/11/25		01/14/25	01/13/25
Q1073-04	IA1	Air	VOCMS Group3	TO-15	01/11/25		01/14/25	01/13/25
Q1073-05	IA2	Air	VOCMS Group3	TO-15	01/11/25		01/14/25	01/13/25
Q1073-06	IA3	Air	VOCMS Group3	TO-15	01/11/25		01/14/25	01/13/25

Hit Summary Sheet
SW-846

SDG No.: Q1073

Client: GFE LLC

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID: Q1073-01	SV1 SV1	Air	Tetrachloroethene	4.61		0.41	0.81	ug/m3
			Total Voc :	4.61				
			Total Concentration:	4.61				
Client ID: Q1073-02	SV2 SV2	Air	Tetrachloroethene	34.6		0.41	0.81	ug/m3
			Total Voc :	34.6				
			Total Concentration:	34.6				
Client ID: Q1073-03	SV3 SV3	Air	Tetrachloroethene	2.17		0.41	0.81	ug/m3
			Total Voc :	2.17				
			Total Concentration:	2.17				
Client ID: Q1073-04	IA1 IA1	Air	Tetrachloroethene	0.61		0.14	0.20	ug/m3
			Total Voc :	0.61				
			Total Concentration:	0.61				
Client ID: Q1073-05	IA2 IA2	Air	Tetrachloroethene	4.68		0.14	0.20	ug/m3
			Total Voc :	4.68				
			Total Concentration:	4.68				
Client ID: Q1073-06	IA3 IA3	Air	Tetrachloroethene	0.95		0.14	0.20	ug/m3
			Total Voc :	0.95				
			Total Concentration:	0.95				



QC SUMMARY

Surrogate Summary

SDG No.: Q1073

Client: GFE LLC

Analytical Method: SWTO-15

Lab Sample ID	Client ID	Parameter	Spike	Result	RecoveryQual	Limits	
						Low	High
Q1073-01	SV1	1-Bromo-4-Fluorobenzene	10	10.1	101	65	135
Q1073-02	SV2	1-Bromo-4-Fluorobenzene	10	9.97	100	65	135
Q1073-03	SV3	1-Bromo-4-Fluorobenzene	10	9.98	100	65	135
Q1073-04	IA1	1-Bromo-4-Fluorobenzene	10	10.0	100	65	135
Q1073-04DUP	IA1DUP	1-Bromo-4-Fluorobenzene	10	10.2	102	65	135
Q1073-05	IA2	1-Bromo-4-Fluorobenzene	10	10.3	103	65	135
Q1073-06	IA3	1-Bromo-4-Fluorobenzene	10	10.0	100	65	135
VL0114ABL02	VL0114ABL02	1-Bromo-4-Fluorobenzene	10	9.92	99	65	135
VL0114ABS01	VL0114ABS01	1-Bromo-4-Fluorobenzene	10	10.2	102	65	135

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1073
Client: GFE LLC
Analytical Method: SWTO-15 **Datafile :** VL041899.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VL0114ABS01	Vinyl Chloride	10	10.1	ppbv	101			70	130	
	1,1-Dichloroethene	10	10.1	ppbv	101			70	130	
	cis-1,2-Dichloroethene	10	9.70	ppbv	97			70	130	
	1,1,1-Trichloroethane	10	10.4	ppbv	104			70	130	
	Trichloroethene	10	9.90	ppbv	99			70	130	
	Tetrachloroethene	10	9.40	ppbv	94			70	130	

Duplicate Sample Summary

Lab Sample Id :	Q1073-04DUP	Q1073-04
Client Id :	IA1DUP	IA1
DF :	1	1
Datafile :	VL041902.D	VL041901.D
Anal Date & Time :	01/14/2025 21:14	01/14/2025 20:40

Parameter	Result	Result	RPD
1,1,1-Trichloroethane	0	0	0
1,1-Dichloroethene	0	0	0
cis-1,2-Dichloroethene	0	0	0
Tetrachloroethene	0.08	0.09	11.8
Trichloroethene	0	0	0
Vinyl Chloride	0	0	0

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

IA1DUP

Lab Name: CHEMTECH

Contract: GFEL01

Lab Code: CHEM Case No.: Q1073

SAS No.: Q1073 SDG NO.: Q1073

Lab File ID: VL041902.D

Lab Sample ID: Q1073-04DUP

Date Analyzed: 01/14/2025

Time Analyzed: 21:14

GC Column: RTX-1 ID: 0.32 (mm)

Heated Purge: (Y/N) N

Instrument ID: MSVOA_L

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
IA1DUP	Q1073-04DUP	VL041902.D	01/14/2025

COMMENTS: _____

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VL0114ABL02

Lab Name: CHEMTECH

Contract: GFEL01

Lab Code: CHEM Case No.: Q1073

SAS No.: Q1073 SDG NO.: Q1073

Lab File ID: VL041898.D

Lab Sample ID: VL0114ABL02

Date Analyzed: 01/14/2025

Time Analyzed: 19:05

GC Column: RTX-1 ID: 0.32 (mm)

Heated Purge: (Y/N) N

Instrument ID: MSVOA_L

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
VL0114ABS01	VL0114ABS01	VL041899.D	01/14/2025
IA1	Q1073-04	VL041901.D	01/14/2025
IA2	Q1073-05	VL041903.D	01/14/2025
IA3	Q1073-06	VL041904.D	01/14/2025
SV1	Q1073-01	VL041905.D	01/14/2025
SV2	Q1073-02	VL041906.D	01/14/2025
SV3	Q1073-03	VL041907.D	01/14/2025

COMMENTS: _____

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: GFEL01
Lab Code: CHEM Case No.: Q1073 SAS No.: Q1073 SDG NO.: Q1073
Lab File ID: VL041887.D BFB Injection Date: 01/14/2025
Instrument ID: MSVOA_L BFB Injection Time: 07:50
GC Column: RTX-1 ID: 0.32 (mm) Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	23
75	30.0 - 66.0% of mass 95	56.1
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.5
173	Less than 2.0% of mass 174	0.0 (0.0) 1
174	50.0 - 120.0% of mass 95	60
175	4.0 - 9.0% of mass 174	4.9 (8.2) 1
176	93.0 - 101.0% of mass 174	58.1 (96.8) 1
177	5.0 - 9.0% of mass 176	3.9 (6.8) 2

1-Value is % mass 174

2-Value is % mass 176

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDIC0.5	VSTDIC0.5	VL041888.D	01/14/2025	11:40
VSTDIC0.10	VSTDIC0.10	VL041889.D	01/14/2025	12:55
VSTDIC0.02	VSTDIC0.02	VL041890.D	01/14/2025	13:28
VSTDIC0.01	VSTDIC0.01	VL041891.D	01/14/2025	13:59
VSTDIC0.5	VSTDIC0.5	VL041892.D	01/14/2025	14:30
VSTDIC0.1	VSTDIC0.1	VL041893.D	01/14/2025	15:01
VSTDIC0.03	VSTDIC0.03	VL041894.D	01/14/2025	15:32
VSTDIC0.15	VSTDIC0.15	VL041895.D	01/14/2025	16:05
VL0114ABL02	VL0114ABL02	VL041898.D	01/14/2025	19:05
VL0114ABS01	VL0114ABS01	VL041899.D	01/14/2025	19:36
IA1	Q1073-04	VL041901.D	01/14/2025	20:40
IA1DUP	Q1073-04DUP	VL041902.D	01/14/2025	21:14
IA2	Q1073-05	VL041903.D	01/14/2025	21:47
IA3	Q1073-06	VL041904.D	01/14/2025	22:21
SV1	Q1073-01	VL041905.D	01/14/2025	22:51
SV2	Q1073-02	VL041906.D	01/14/2025	23:22
SV3	Q1073-03	VL041907.D	01/14/2025	23:52

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: GFEL01
 Lab Code: CHEM Case No.: Q1073 SAS No.: Q1073 SDG NO.: Q1073
 Lab File ID: VL041889.D Date Analyzed: 01/14/2025
 Instrument ID: MSVOA_L Time Analyzed: 12:55
 GC Column: RTX-1 ID: 0.32 (mm) Heated Purge: (Y/N) N

	IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	152325	2.80	449256	3.98	400269	8.89
UPPER LIMIT	213255	3.13	628958	4.31	560377	9.22
LOWER LIMIT	91395	2.47	269554	3.65	240161	8.56
EPA SAMPLE NO.						
SV1	131930	2.79	381564	3.97	331127	8.89
SV2	136441	2.79	396539	3.97	360198	8.89
SV3	138825	2.79	414276	3.97	367457	8.89
IA1	138054	2.79	398730	3.97	344203	8.89
IA1DUP	136404	2.79	393396	3.97	334705	8.89
IA2	134154	2.79	393472	3.97	335047	8.89
IA3	138247	2.79	398753	3.97	345260	8.89
VL0114ABL02	138889	2.79	407987	3.97	348302	8.89
VL0114ABS01	135934	2.79	402701	3.97	356460	8.89

IS1 = Bromochloromethane
 IS2 = 1,4-Difluorobenzene
 IS3 = Chlorobenzene-d5

AREA UPPER LIMIT = +40% of internal standard area
 AREA LOWER LIMIT = -40% of internal standard area
 RT UPPER LIMIT = +0.33 minutes of internal standard RT
 RT LOWER LIMIT = -0.33 minutes of internal standard RT

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



SAMPLE DATA

Report of Analysis

Client:	GFE LLC	Date Collected:	01/11/25
Project:	720 W. 181st NY, NY	Date Received:	01/13/25
Client Sample ID:	SV1	SDG No.:	Q1073
Lab Sample ID:	Q1073-01	Matrix:	Air
Analytical Method:	TO-15	Test:	VOCMS Group3
Sample Wt/Vol:	400	Units:	mL

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL041905.D	4		01/14/25 22:51	VL011425

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-01-4	Vinyl Chloride	0.060	0.15	U	0.15	0.31	ug/m3
75-35-4	1,1-Dichloroethene	0.56	2.22	U	2.22	7.93	ug/m3
156-59-2	cis-1,2-Dichloroethene	0.36	1.43	U	1.43	7.93	ug/m3
71-55-6	1,1,1-Trichloroethane	0.040	0.22	U	0.22	0.65	ug/m3
79-01-6	Trichloroethene	0.070	0.38	U	0.38	0.64	ug/m3
127-18-4	Tetrachloroethene	0.68	4.61		0.41	0.81	ug/m3
SURROGATES							
460-00-4	1-Bromo-4-Fluorobenzene	10.1			65 - 135	101%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	132000			2.793		
540-36-3	1,4-Difluorobenzene	382000			3.965		
3114-55-4	Chlorobenzene-d5	331000			8.888		

U = Not Detected

RL = Reporting Limit

MDL = Method Detection Limit

E = Value Exceeds Calibration Range

D = Dilution

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

Q = indicates LCS control criteria did not meet requirements

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
 Data File : VL041905.D
 Acq On : 14 Jan 2025 22:51
 Operator : SY/MD
 Sample : Q1073-01 4X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV1

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 01/15/2025
 Supervised By :Mahesh Dadoda 01/15/2025

Quant Time: Jan 15 03:29:15 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2

QLast Update : Tue Jan 14 23:15:42 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.793	49	131930	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.965	114	381564	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.888	117	331127	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.383	95	263631	10.108	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.100%
Target Compounds						
2) Dichlorodifluoromethane	1.499	85	2500	0.139	ppbv #	84
9) Propene	1.489	41	16683	2.151	ppbv	86
15) Acetone	1.839	43	17170	1.084	ppbv #	76
20) Methylene Chloride	2.062	84	1202	0.192	ppbv	89
34) 2-Butanone	2.564	43	24886	1.026	ppbv	99
51) 2-Hexanone	7.457	43	6943m	0.273	ppbv	
52) Tetrachloroethene	8.231	164	2109m	0.174	ppbv	
53) Toluene	6.943	91	12994m	0.341	ppbv	

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

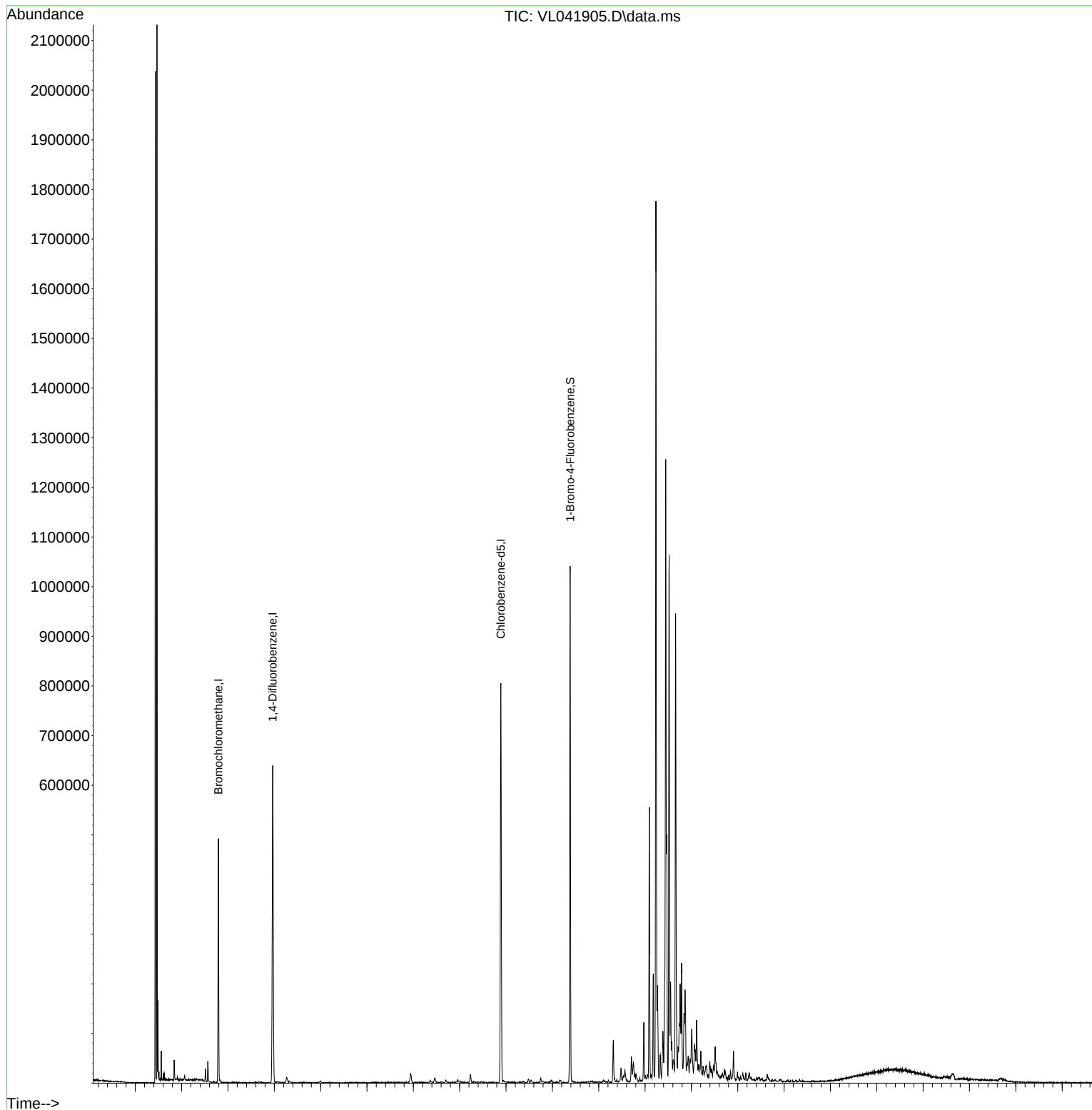
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Data File : VL041905.D
Acq On : 14 Jan 2025 22:51
Operator : SY/MD
Sample : Q1073-01 4X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

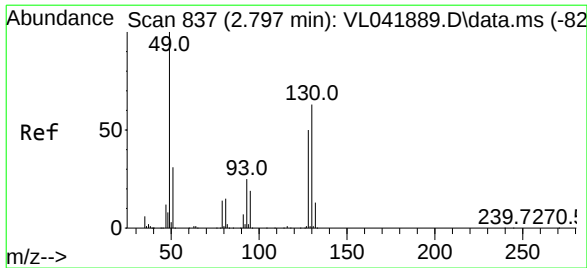
Instrument :
MSVOA_L
ClientSampleId :
SV1

Quant Time: Jan 15 03:29:15 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Tue Jan 14 23:15:42 2025
Response via : Initial Calibration

Manual Integrations
APPROVED

Reviewed By : Semsettin Yesilyurt 01/15/2025
Supervised By : Mahesh Dadoda 01/15/2025





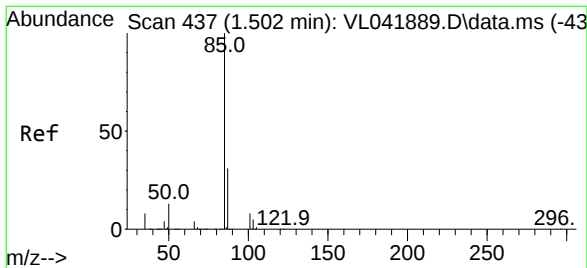
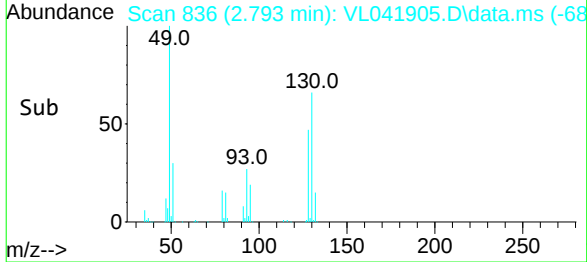
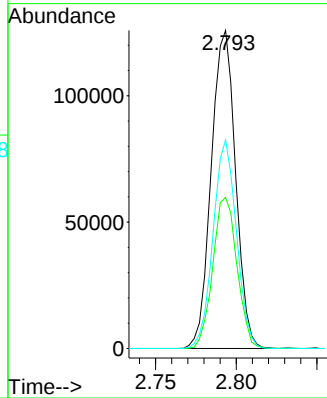
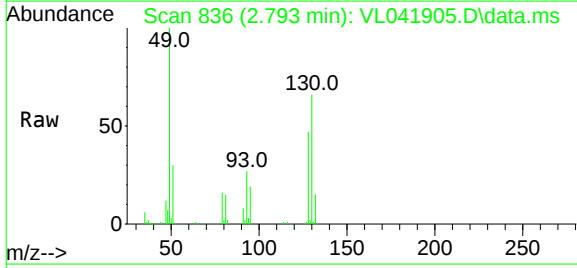
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.793 min Scan# 837
Delta R.T. -0.004 min
Lab File: VL041905.D
Acq: 14 Jan 2025 22:51

Instrument :
MSVOA_L
ClientSampleId :
SV1

Tgt Ion: 49 Resp: 131930
Ion Ratio Lower Upper
49 100
128 47.2 24.3 73.0
130 63.0 31.1 93.2

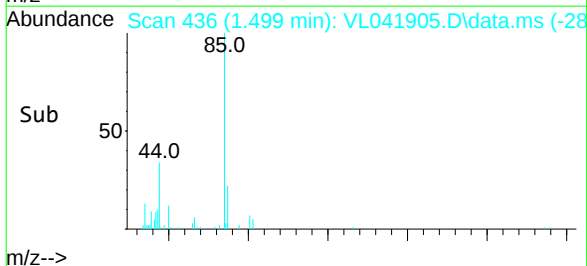
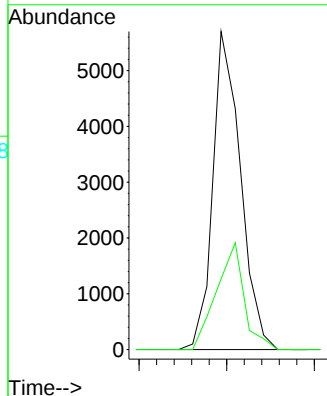
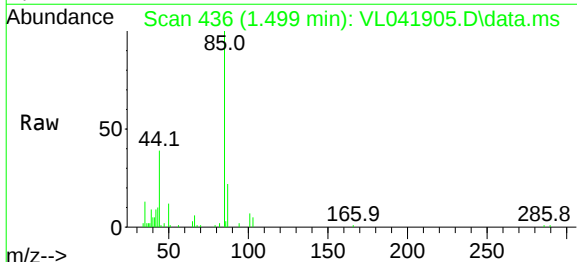
Manual Integrations
APPROVED

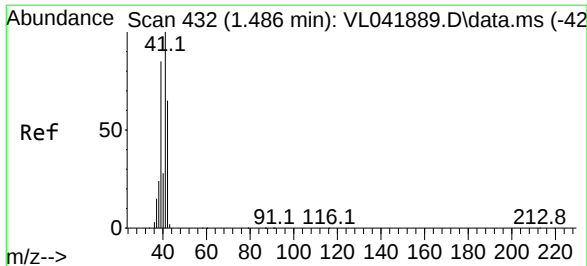
Reviewed By :Semsettin Yesilyurt 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



#2
Dichlorodifluoromethane
Concen: 0.139 ppbv
RT: 1.499 min Scan# 436
Delta R.T. -0.003 min
Lab File: VL041905.D
Acq: 14 Jan 2025 22:51

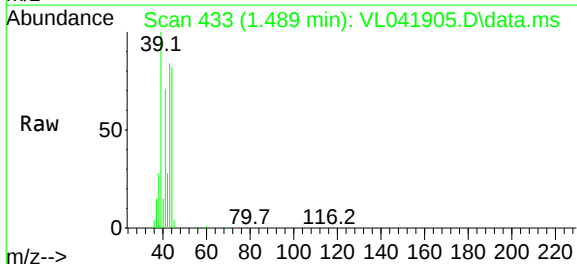
Tgt Ion: 85 Resp: 2500
Ion Ratio Lower Upper
85 100
87 22.2 24.9 37.3#





#9
Propene
Concen: 2.151 ppbv
RT: 1.489 min Scan# 43
Delta R.T. 0.003 min
Lab File: VL041905.D
Acq: 14 Jan 2025 22:51

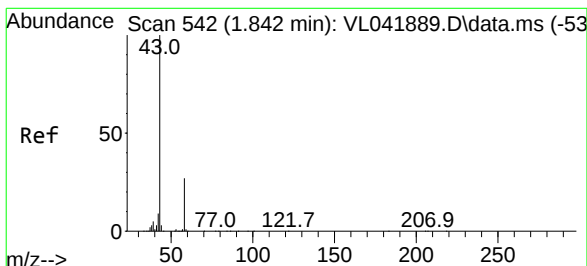
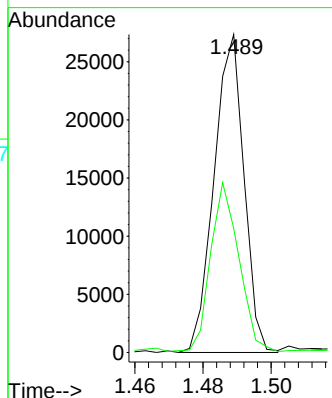
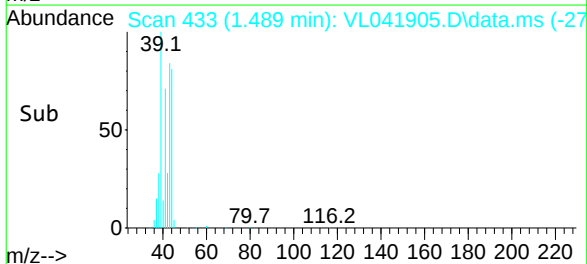
Instrument :
MSVOA_L
ClientSampleId :
SV1



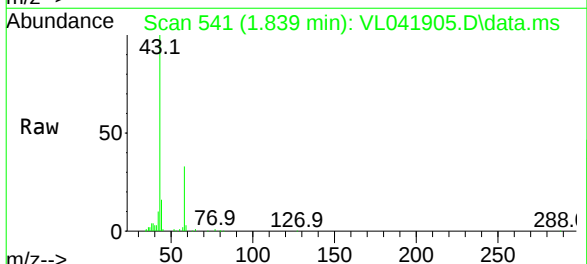
Tgt Ion: 41 Resp: 16683
Ion Ratio Lower Upper
41 100
42 54.2 52.0 78.0

Manual Integrations
APPROVED

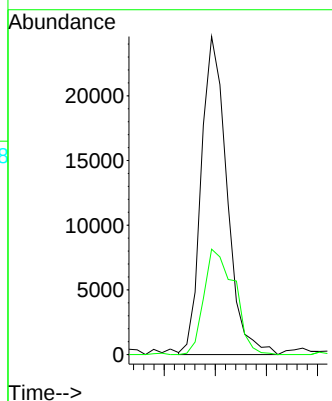
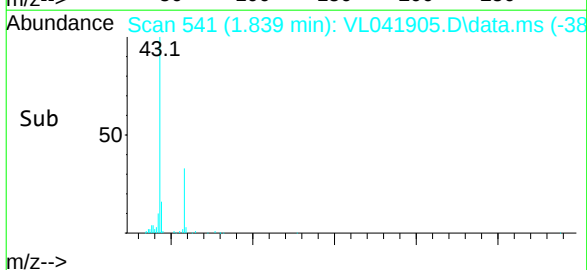
Reviewed By :Semsettin Yesilyurt 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

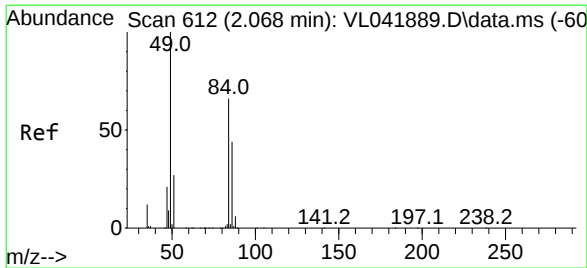


#15
Acetone
Concen: 1.084 ppbv
RT: 1.839 min Scan# 541
Delta R.T. -0.003 min
Lab File: VL041905.D
Acq: 14 Jan 2025 22:51



Tgt Ion: 43 Resp: 17170
Ion Ratio Lower Upper
43 100
58 39.7 21.9 32.9#





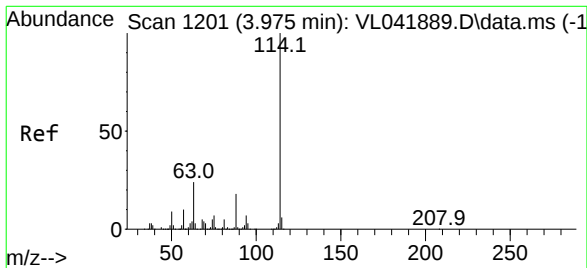
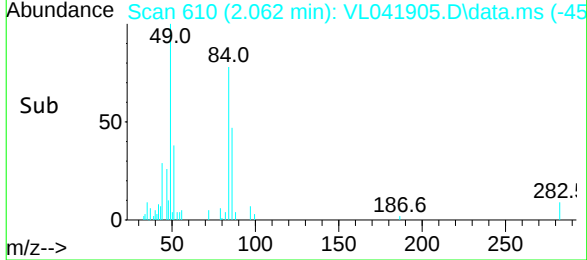
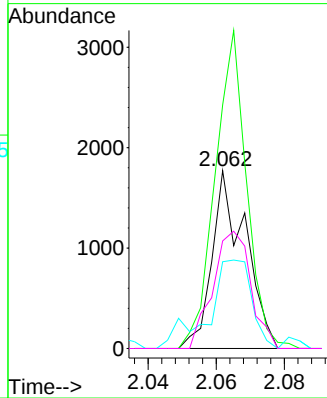
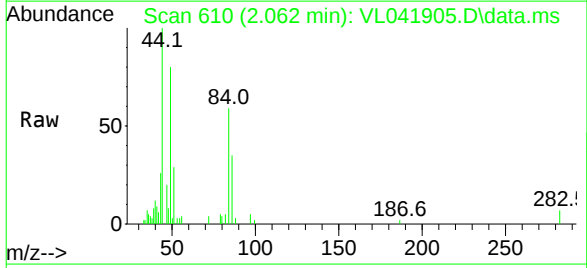
#20
Methylene Chloride
Concen: 0.192 ppbv
RT: 2.062 min Scan# 61
Delta R.T. -0.007 min
Lab File: VL041905.D
Acq: 14 Jan 2025 22:51

Instrument :
MSVOA_L
ClientSampleId :
SV1

Tgt	Ion: 84	Resp:	1202
Ion	Ratio	Lower	Upper
84	100		
49	136.9	123.1	184.7
51	48.8	35.8	53.8
86	60.5	53.7	80.5

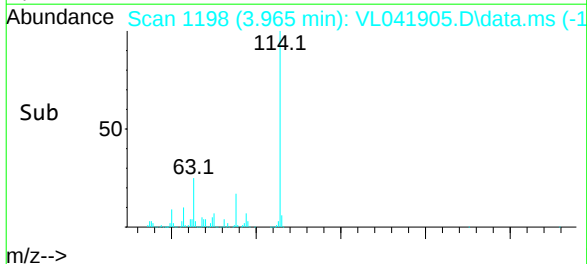
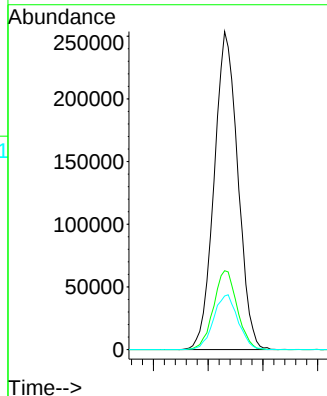
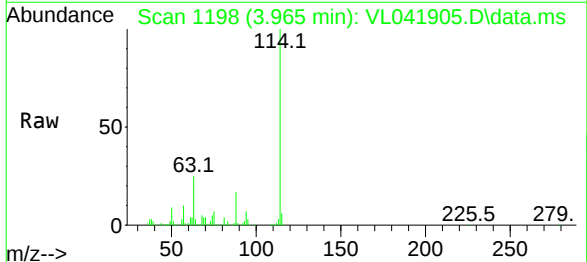
Manual Integrations
APPROVED

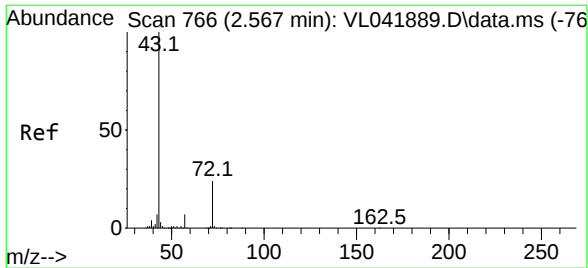
Reviewed By :Semsettin Yesilyurt 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.965 min Scan# 1198
Delta R.T. -0.010 min
Lab File: VL041905.D
Acq: 14 Jan 2025 22:51

Tgt	Ion:114	Resp:	381564
Ion	Ratio	Lower	Upper
114	100		
63	24.8	19.8	29.6
88	17.7	14.4	21.6





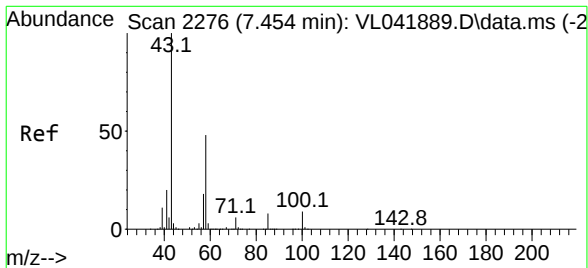
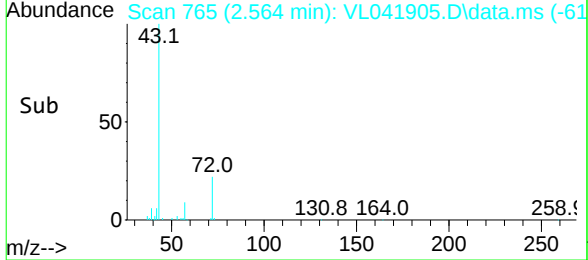
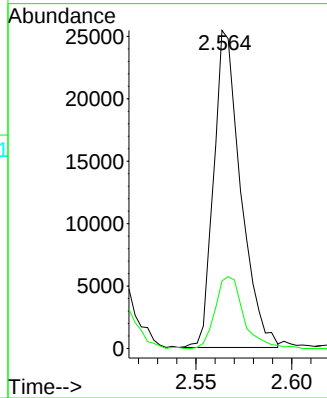
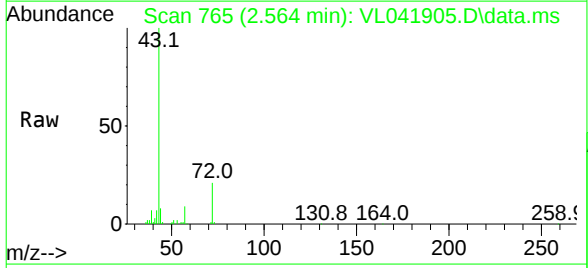
#34
2-Butanone
Concen: 1.026 ppbv
RT: 2.564 min Scan# 766
Delta R.T. -0.003 min
Lab File: VL041905.D
Acq: 14 Jan 2025 22:51

Instrument :
MSVOA_L
ClientSampleId :
SV1

Tgt Ion: 43 Resp: 24886
Ion Ratio Lower Upper
43 100
72 23.8 18.6 28.0

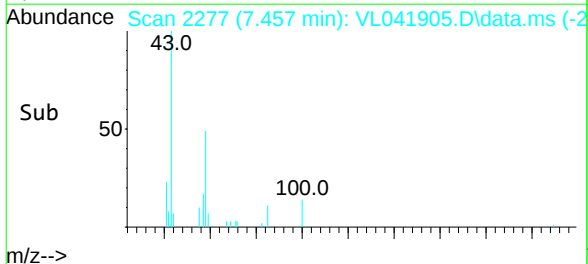
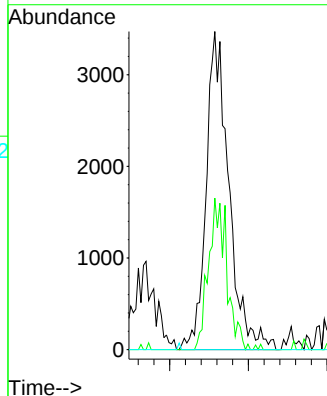
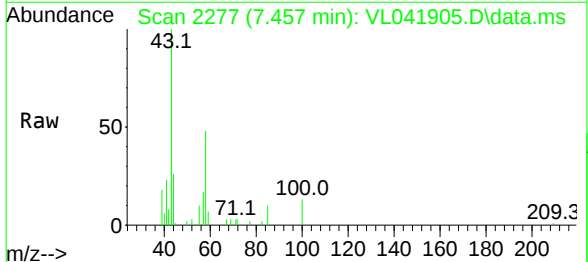
Manual Integrations
APPROVED

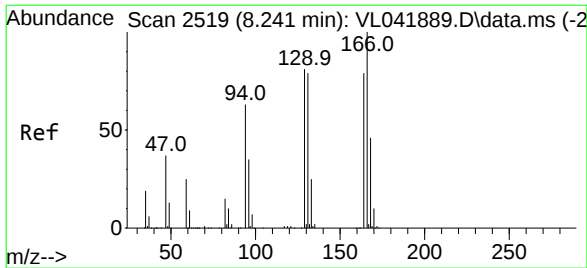
Reviewed By :Semsettin Yesilyurt 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



#51
2-Hexanone
Concen: 0.273 ppbv m
RT: 7.457 min Scan# 2277
Delta R.T. 0.003 min
Lab File: VL041905.D
Acq: 14 Jan 2025 22:51

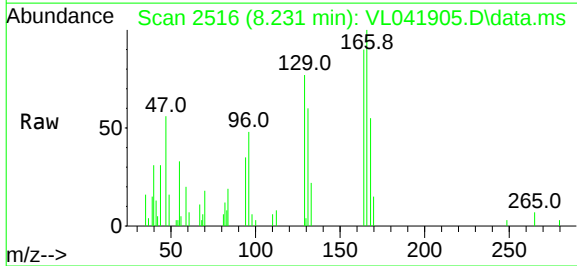
Tgt Ion: 43 Resp: 6943
Ion Ratio Lower Upper
43 100
58 0.0 40.4 60.6#
98 0.2 0.2 0.2





#52
Tetrachloroethene
Concen: 0.174 ppbv m
RT: 8.231 min Scan# 2519
Delta R.T. -0.010 min
Lab File: VL041905.D
Acq: 14 Jan 2025 22:51

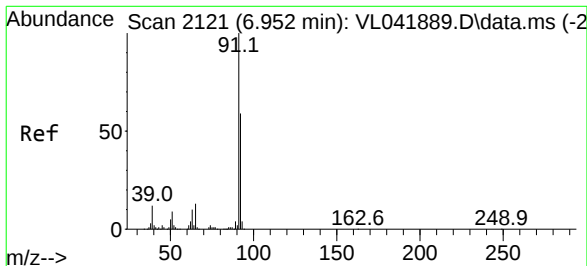
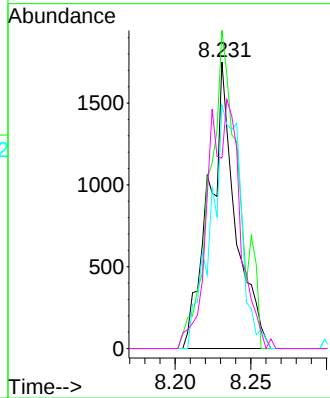
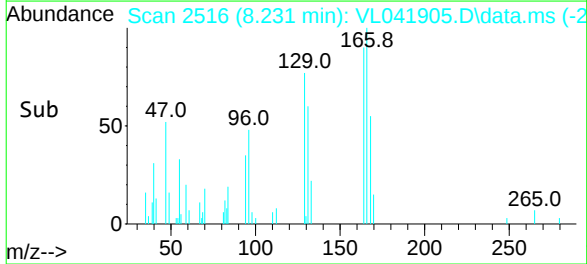
Instrument :
MSVOA_L
ClientSampleId :
SV1



Tgt Ion: 164 Resp: 2109
Ion Ratio Lower Upper
164 100
166 111.0 100.8 151.2
129 85.1 82.0 123.0
131 66.5 80.2 120.2#

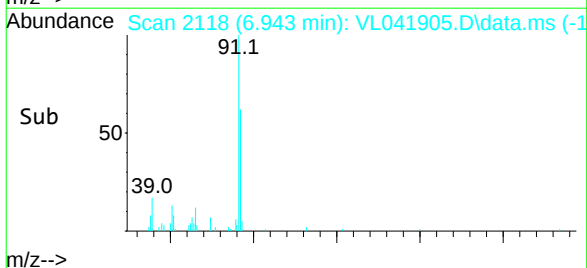
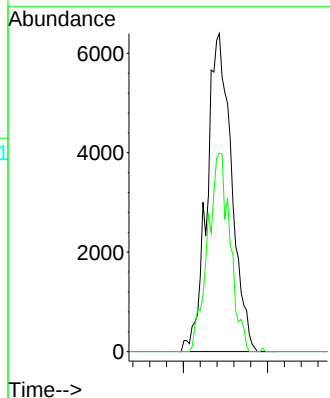
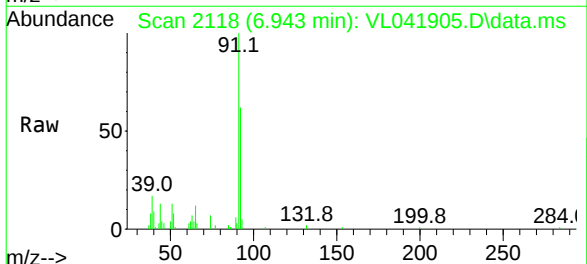
Manual Integrations
APPROVED

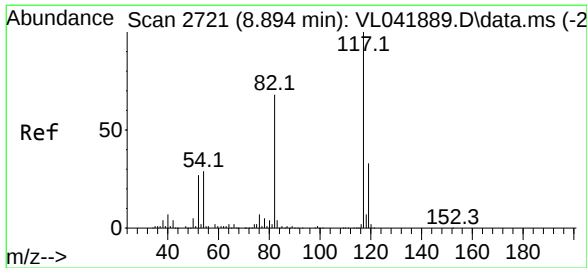
Reviewed By :Semsettin Yesilyurt 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



#53
Toluene
Concen: 0.341 ppbv m
RT: 6.943 min Scan# 2118
Delta R.T. -0.010 min
Lab File: VL041905.D
Acq: 14 Jan 2025 22:51

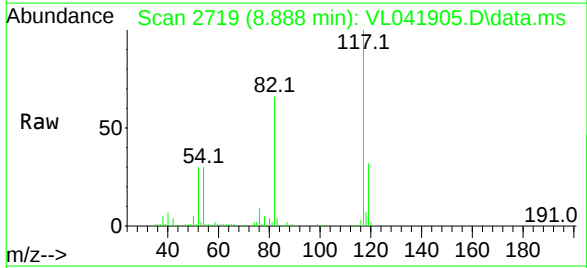
Tgt Ion: 91 Resp: 12994
Ion Ratio Lower Upper
91 100
92 56.7 47.4 71.0





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.888 min Scan# 2719
Delta R.T. -0.007 min
Lab File: VL041905.D
Acq: 14 Jan 2025 22:51

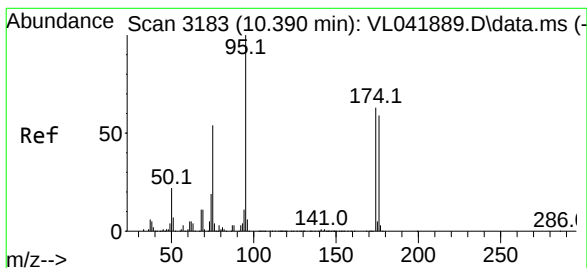
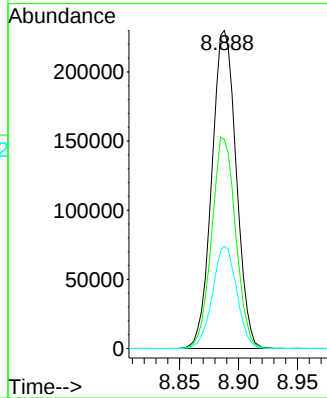
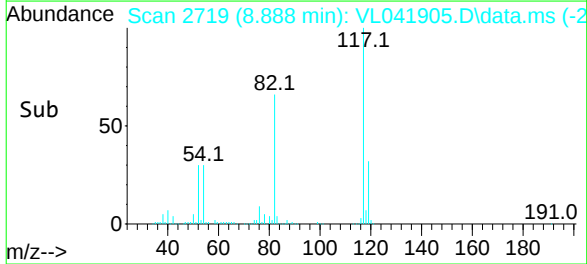
Instrument :
MSVOA_L
ClientSampleId :
SV1



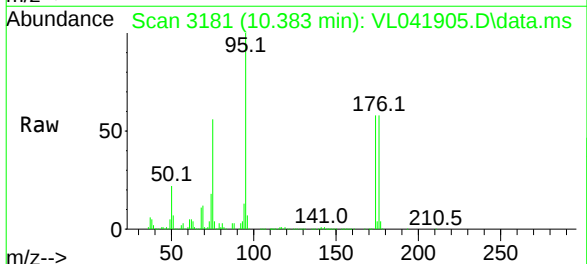
Tgt Ion: 117 Resp: 331127
Ion Ratio Lower Upper
117 100
82 65.3 54.2 81.4
119 32.0 25.0 37.6

Manual Integrations
APPROVED

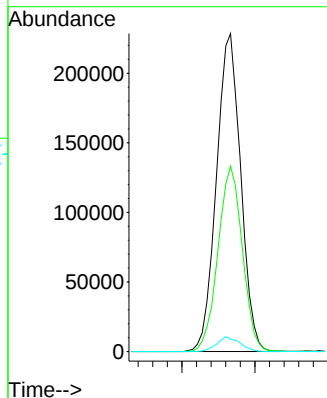
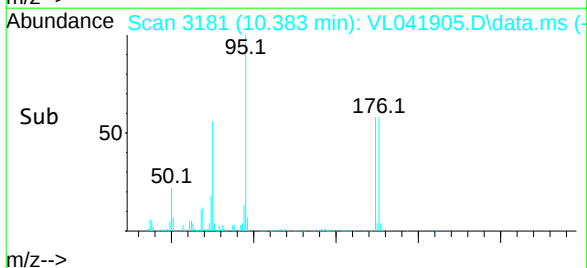
Reviewed By :Semsettin Yesilyurt 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



#68
1-Bromo-4-Fluorobenzene
Concen: 10.108 ppbv
RT: 10.383 min Scan# 3181
Delta R.T. -0.007 min
Lab File: VL041905.D
Acq: 14 Jan 2025 22:51



Tgt Ion: 95 Resp: 263631
Ion Ratio Lower Upper
95 100
174 58.7 49.0 73.4
175 4.5 3.8 5.8



Report of Analysis

Client:	GFE LLC	Date Collected:	01/11/25
Project:	720 W. 181st NY, NY	Date Received:	01/13/25
Client Sample ID:	SV2	SDG No.:	Q1073
Lab Sample ID:	Q1073-02	Matrix:	Air
Analytical Method:	TO-15	Test:	VOCMS Group3
Sample Wt/Vol:	400	Units:	mL

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL041906.D	4		01/14/25 23:22	VL011425

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-01-4	Vinyl Chloride	0.060	0.15	U	0.15	0.31	ug/m3
75-35-4	1,1-Dichloroethene	0.56	2.22	U	2.22	7.93	ug/m3
156-59-2	cis-1,2-Dichloroethene	0.36	1.43	U	1.43	7.93	ug/m3
71-55-6	1,1,1-Trichloroethane	0.040	0.22	U	0.22	0.65	ug/m3
79-01-6	Trichloroethene	0.070	0.38	U	0.38	0.64	ug/m3
127-18-4	Tetrachloroethene	5.10	34.6		0.41	0.81	ug/m3
SURROGATES							
460-00-4	1-Bromo-4-Fluorobenzene	10.0			65 - 135	100%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	136000			2.793		
540-36-3	1,4-Difluorobenzene	397000			3.965		
3114-55-4	Chlorobenzene-d5	360000			8.888		

U = Not Detected

RL = Reporting Limit

MDL = Method Detection Limit

E = Value Exceeds Calibration Range

D = Dilution

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

Q = indicates LCS control criteria did not meet requirements

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
 Data File : VL041906.D
 Acq On : 14 Jan 2025 23:22
 Operator : SY/MD
 Sample : Q1073-02 4X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV2

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 01/15/2025
 Supervised By :Mahesh Dadoda 01/15/2025

Quant Time: Jan 15 03:29:43 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M

Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 2

QLast Update : Tue Jan 14 23:15:42 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.793	49	136441	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.965	114	396539	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.888	117	360198	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.383	95	282769	9.967	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.700%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.502	85	2530	0.136	ppbv #	81
10) Heptane	4.994	43	9687m	0.452	ppbv	
15) Acetone	1.839	43	14391	0.878	ppbv #	58
20) Methylene Chloride	2.065	84	1487	0.230	ppbv #	71
26) Hexane	2.832	57	44321	2.536	ppbv #	35
27) Carbon Disulfide	2.156	76	2367	0.137	ppbv #	1
29) Chloroform	2.855	83	3417	0.124	ppbv	96
34) 2-Butanone	2.567	43	34092	1.352	ppbv	98
52) Tetrachloroethene	8.237	164	16006	1.269	ppbv	96
53) Toluene	6.943	91	12736	0.321	ppbv	100

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

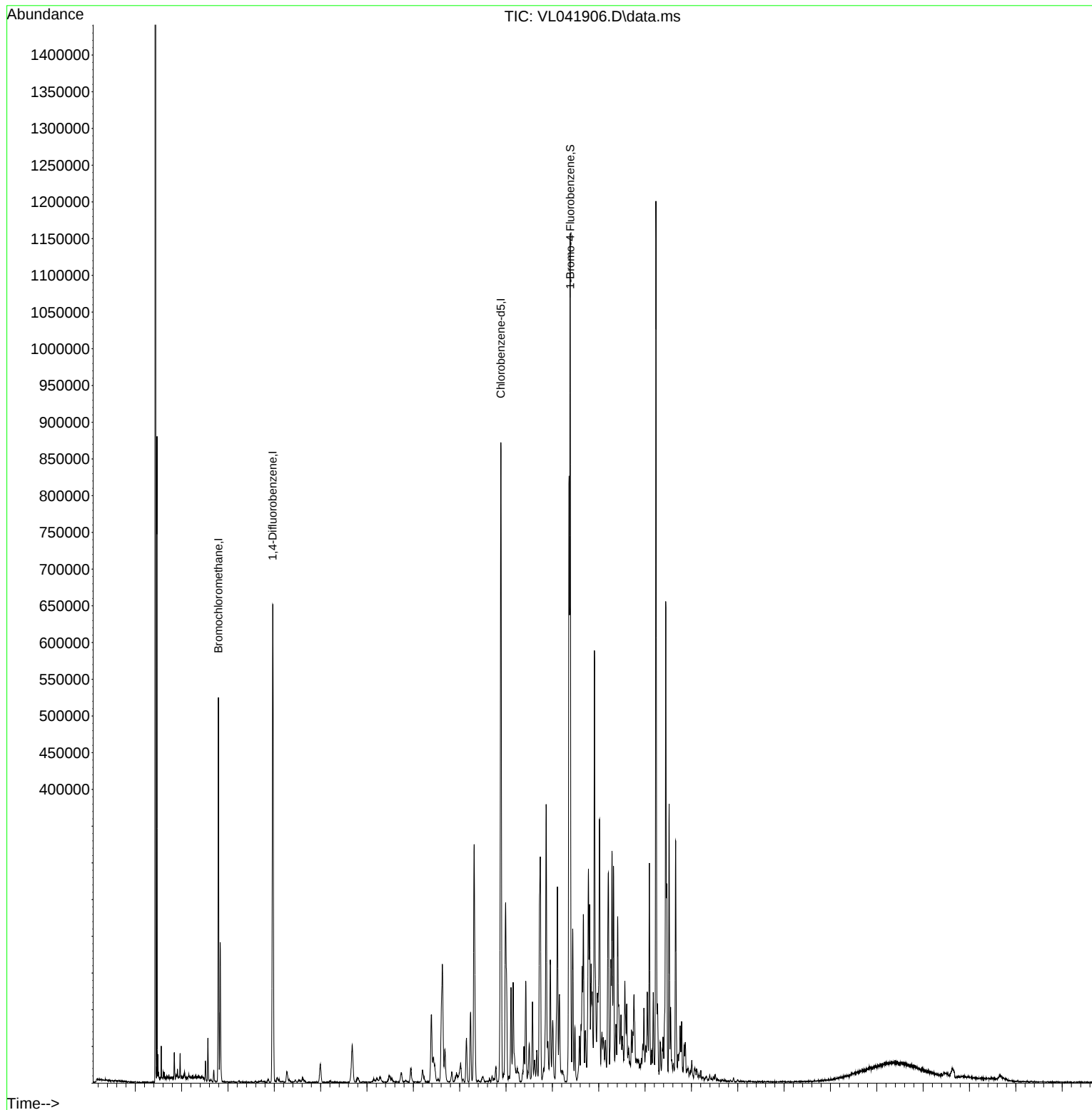
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
Data File : VL041906.D
Acq On : 14 Jan 2025 23:22
Operator : SY/MD
Sample : Q1073-02 4X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

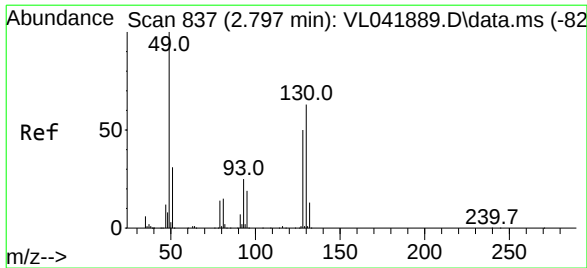
Instrument :
MSVOA_L
ClientSampleId :
SV2

Quant Time: Jan 15 03:29:43 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Tue Jan 14 23:15:42 2025
Response via : Initial Calibration

Manual Integrations
APPROVED

Reviewed By : Semsettin Yesilyurt 01/15/2025
Supervised By : Mahesh Dadoda 01/15/2025





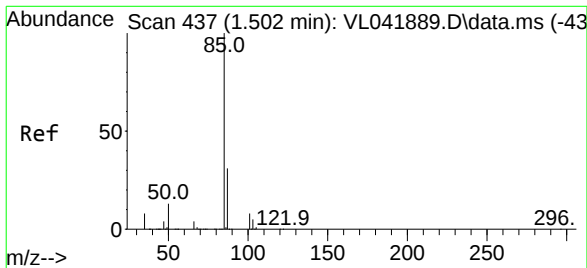
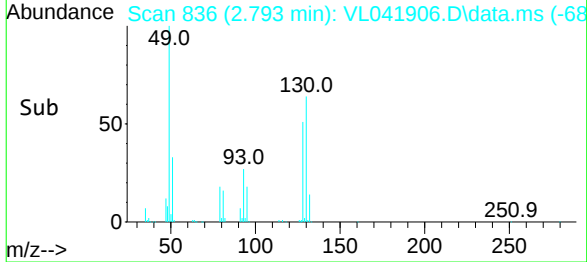
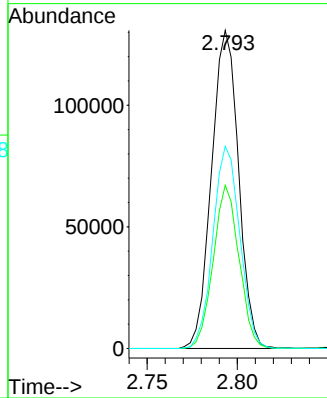
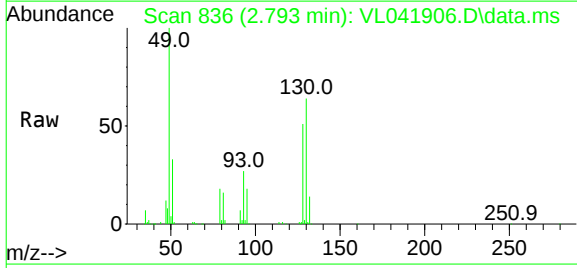
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.793 min Scan# 837
Delta R.T. -0.004 min
Lab File: VL041906.D
Acq: 14 Jan 2025 23:22

Instrument :
MSVOA_L
ClientSampleId :
SV2

Tgt Ion: 49 Resp: 136441
Ion Ratio Lower Upper
49 100
128 48.9 24.3 73.0
130 63.3 31.1 93.2

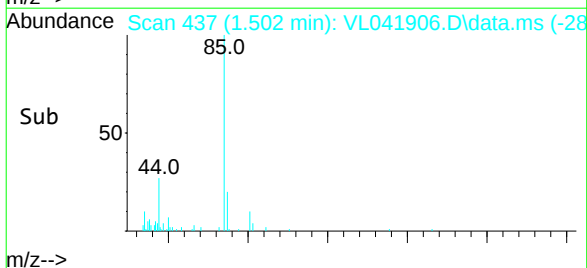
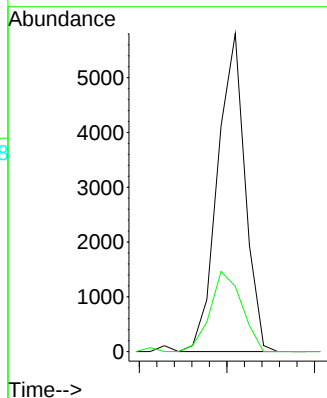
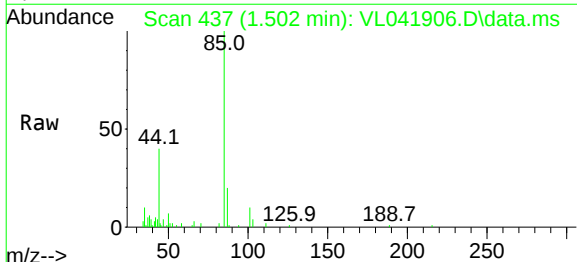
Manual Integrations
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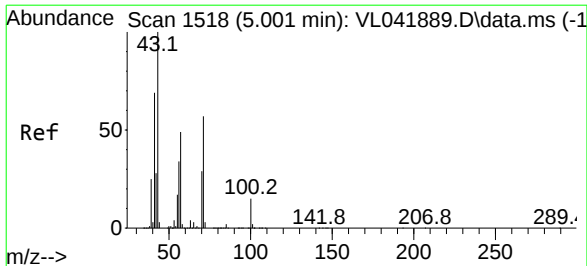
Reviewed By :Semsettin Yesilyurt 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



#2
Dichlorodifluoromethane
Concen: 0.136 ppbv
RT: 1.502 min Scan# 437
Delta R.T. -0.000 min
Lab File: VL041906.D
Acq: 14 Jan 2025 23:22

Tgt Ion: 85 Resp: 2530
Ion Ratio Lower Upper
85 100
87 20.5 24.9 37.3





#10

Heptane

Concen: 0.452 ppbv m

RT: 4.994 min Scan# 1518

Delta R.T. -0.007 min

Lab File: VL041906.D

Acq: 14 Jan 2025 23:22

Instrument :

MSVOA_L

ClientSampleId :

SV2

Tgt Ion: 43 Resp: 9687

Ion Ratio Lower Upper

43 100

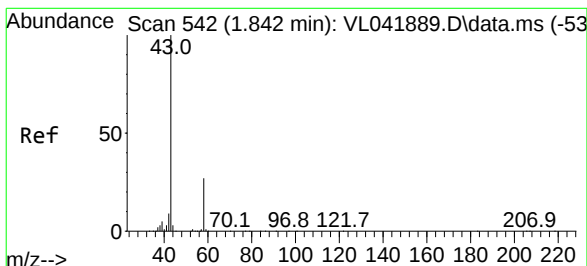
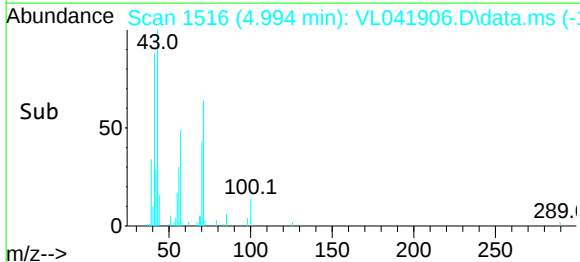
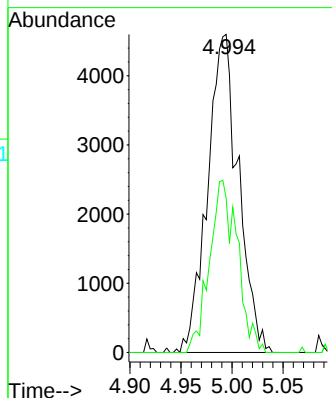
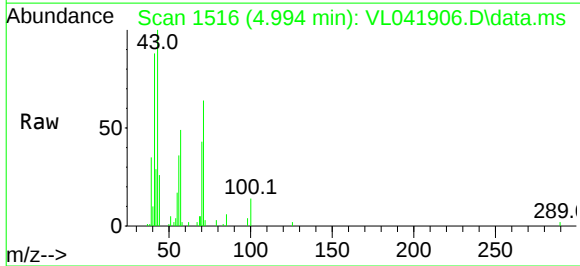
57 49.0 41.0 61.4

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#15

Acetone

Concen: 0.878 ppbv

RT: 1.839 min Scan# 541

Delta R.T. -0.003 min

Lab File: VL041906.D

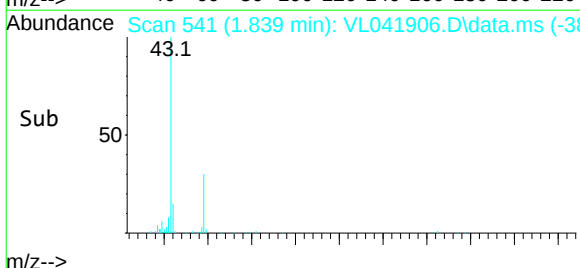
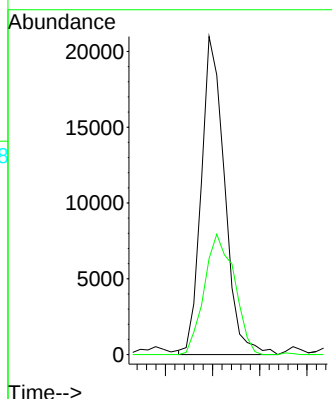
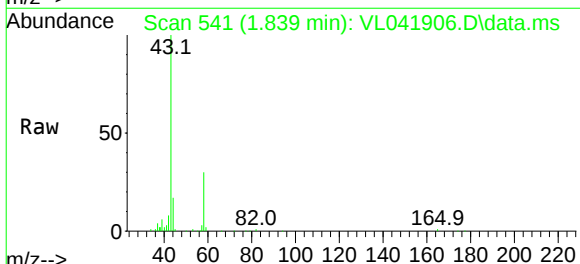
Acq: 14 Jan 2025 23:22

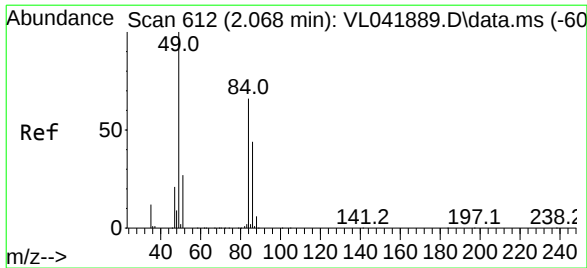
Tgt Ion: 43 Resp: 14391

Ion Ratio Lower Upper

43 100

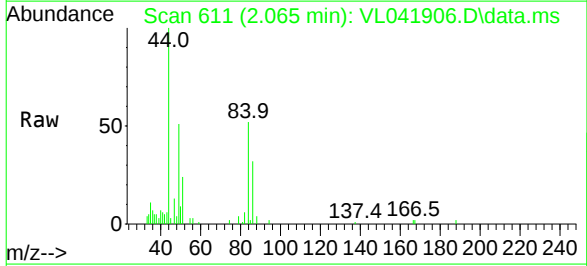
58 49.2 21.9 32.9#





#20
Methylene Chloride
Concen: 0.230 ppbv
RT: 2.065 min Scan# 61
Delta R.T. -0.003 min
Lab File: VL041906.D
Acq: 14 Jan 2025 23:22

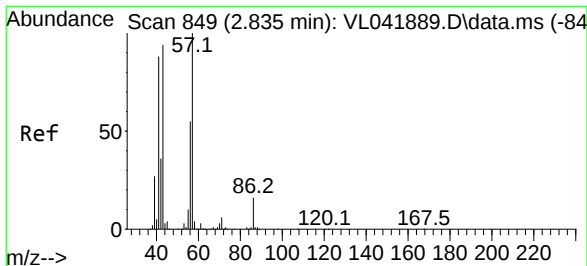
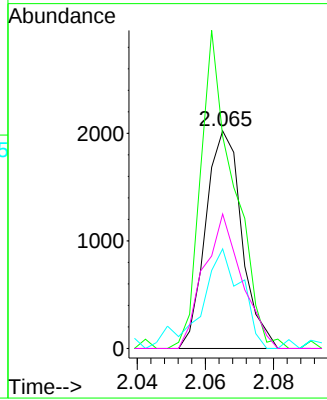
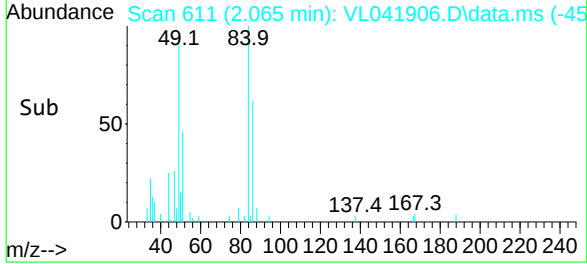
Instrument :
MSVOA_L
ClientSampleId :
SV2



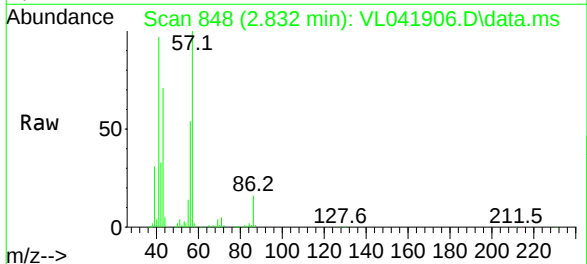
Tgt Ion	Ratio	Lower	Upper
84	100		
49	94.7	123.1	184.7#
51	45.8	35.8	53.8
86	61.8	53.7	80.5

Manual Integrations
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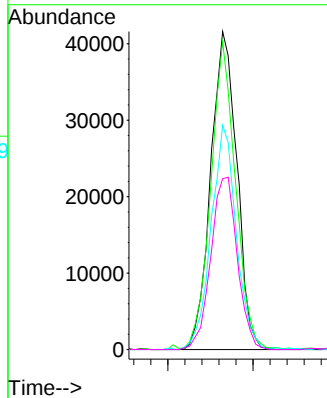
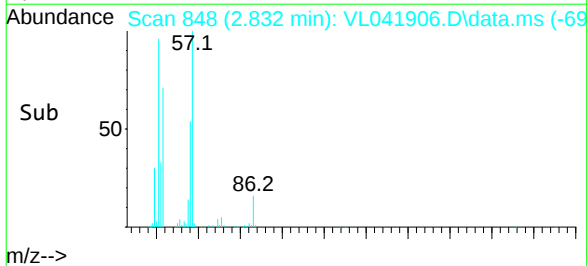
Reviewed By :Semsettin Yesilyurt 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

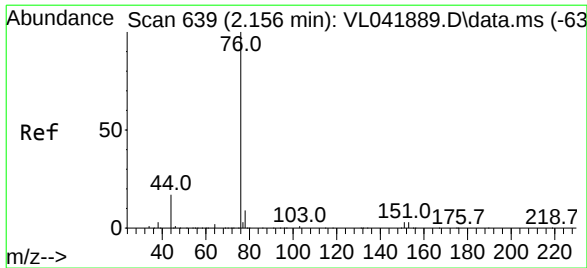


#26
Hexane
Concen: 2.536 ppbv
RT: 2.832 min Scan# 848
Delta R.T. -0.003 min
Lab File: VL041906.D
Acq: 14 Jan 2025 23:22



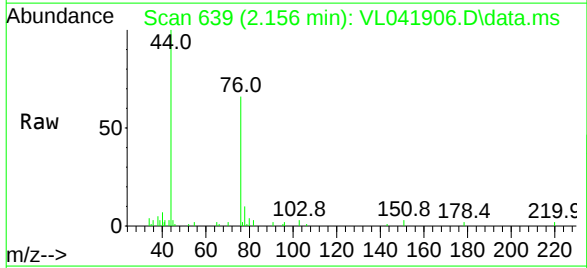
Tgt Ion	Ratio	Lower	Upper
57	100		
41	93.3	73.8	110.8
43	68.1	197.3	295.9#
56	55.0	42.7	64.1





#27
Carbon Disulfide
Concen: 0.137 ppbv
RT: 2.156 min Scan# 639
Delta R.T. -0.000 min
Lab File: VL041906.D
Acq: 14 Jan 2025 23:22

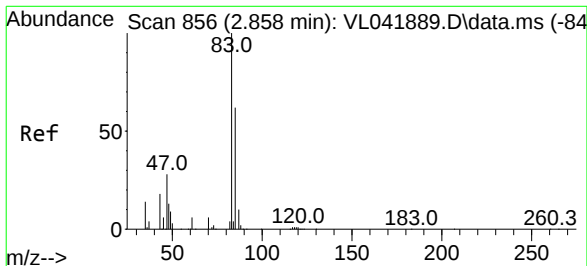
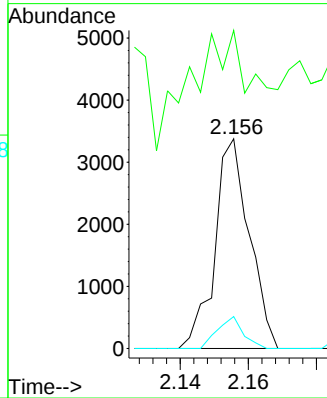
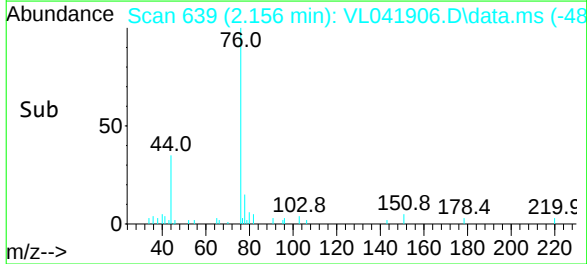
Instrument : MSVOA_L
ClientSampleId : SV2



Tgt Ion: 76 Resp: 2367
Ion Ratio Lower Upper
76 100
44 336.6 15.4 23.0#
78 11.4 9.3 13.9

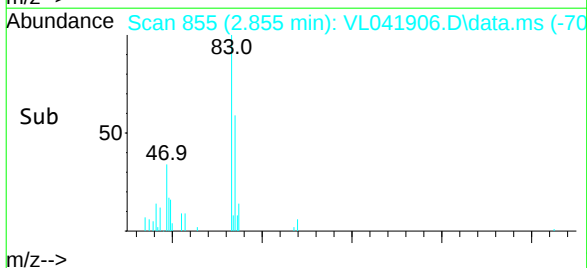
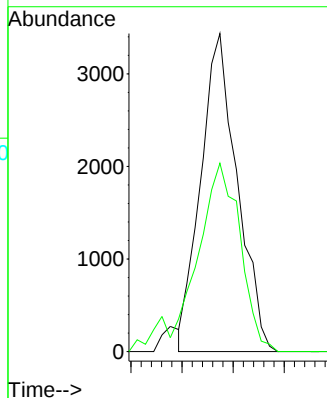
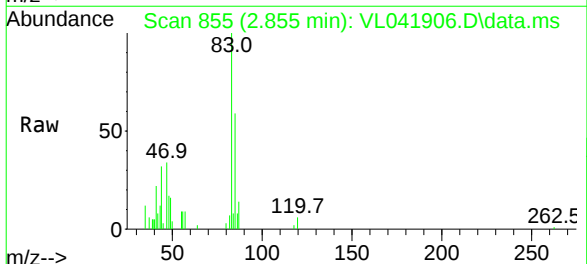
Manual Integrations
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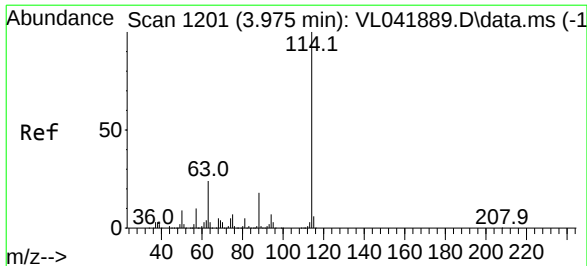
Reviewed By :Semsettin Yesilyurt 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



#29
Chloroform
Concen: 0.124 ppbv
RT: 2.855 min Scan# 855
Delta R.T. -0.003 min
Lab File: VL041906.D
Acq: 14 Jan 2025 23:22

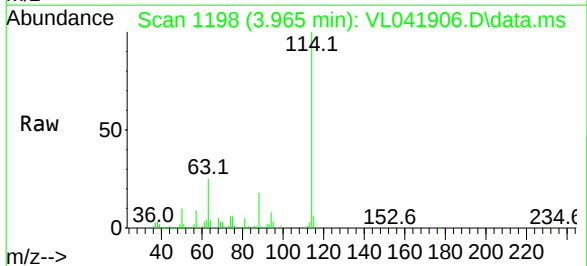
Tgt Ion: 83 Resp: 3417
Ion Ratio Lower Upper
83 100
85 59.2 50.1 75.1





#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.965 min Scan# 111
Delta R.T. -0.010 min
Lab File: VL041906.D
Acq: 14 Jan 2025 23:22

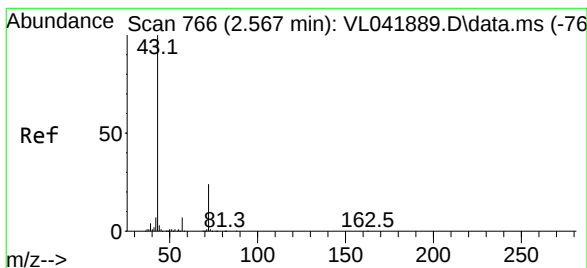
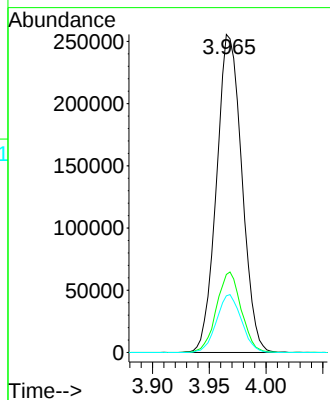
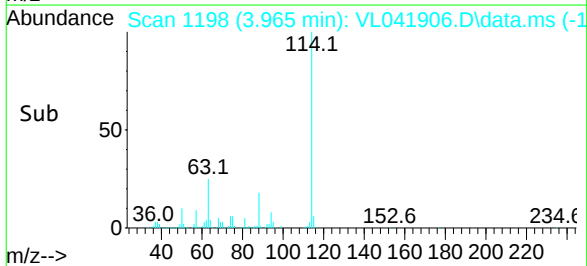
Instrument :
MSVOA_L
ClientSampleId :
SV2



Tgt Ion: 114 Resp: 396539
Ion Ratio Lower Upper
114 100
63 24.7 19.8 29.6
88 17.9 14.4 21.6

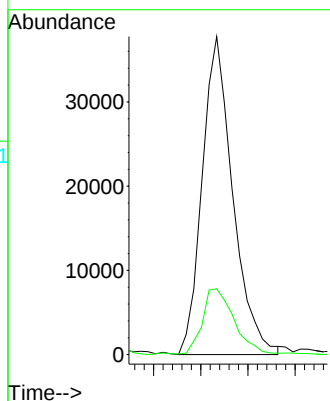
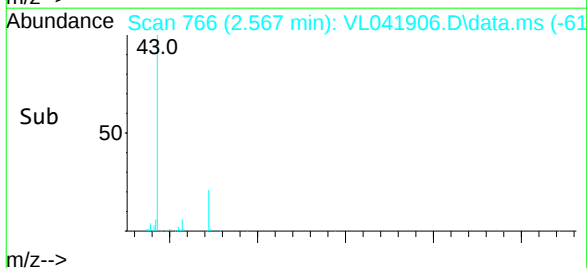
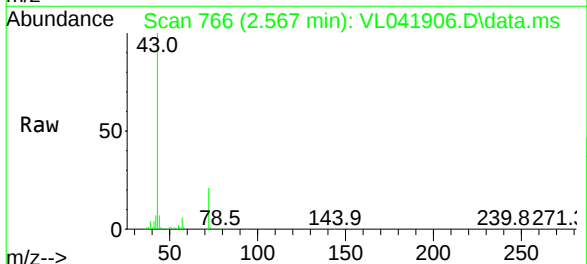
Manual Integrations
APPROVED

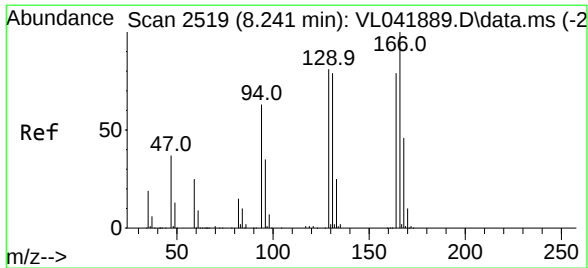
Reviewed By :Semsettin Yesilyurt 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



#34
2-Butanone
Concen: 1.352 ppbv
RT: 2.567 min Scan# 766
Delta R.T. -0.000 min
Lab File: VL041906.D
Acq: 14 Jan 2025 23:22

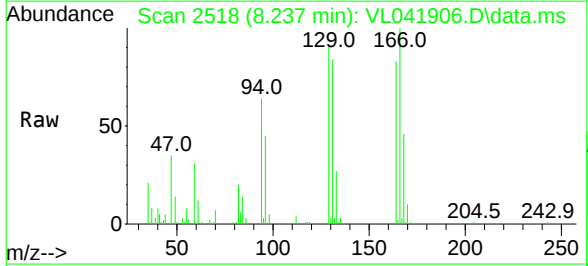
Tgt Ion: 43 Resp: 34092
Ion Ratio Lower Upper
43 100
72 22.1 18.6 28.0





#52
Tetrachloroethene
 Concen: 1.269 ppbv
 RT: 8.237 min Scan# 2518
 Delta R.T. -0.003 min
 Lab File: VL041906.D
 Acq: 14 Jan 2025 23:22

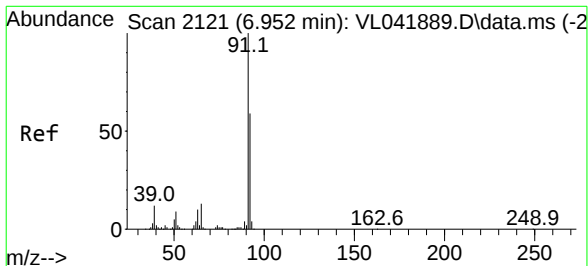
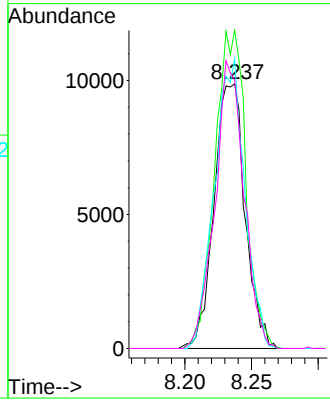
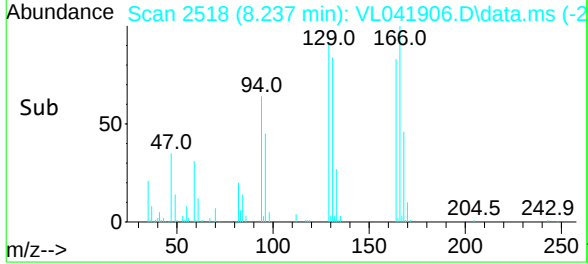
Instrument : MSVOA_L
 ClientSampleId : SV2



Tgt Ion:	164	Resp:	16006
Ion	Ratio	Lower	Upper
164	100		
166	120.2	100.8	151.2
129	109.4	82.0	123.0
131	101.5	80.2	120.2

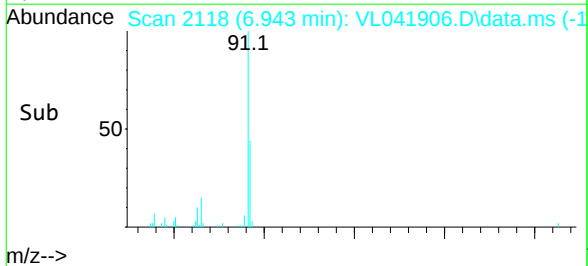
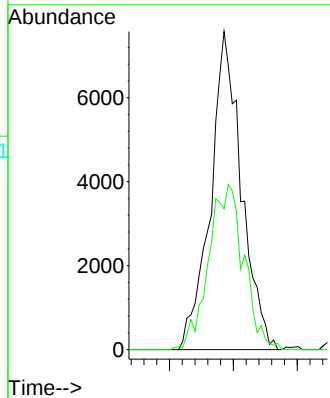
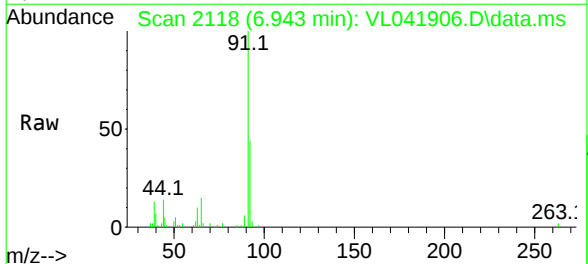
Manual Integrations
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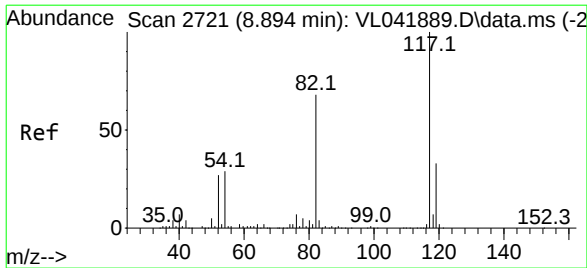
Reviewed By :Semsettin Yesilyurt 01/15/2025
 Supervised By :Mahesh Dadoda 01/15/2025



#53
Toluene
 Concen: 0.321 ppbv
 RT: 6.943 min Scan# 2118
 Delta R.T. -0.010 min
 Lab File: VL041906.D
 Acq: 14 Jan 2025 23:22

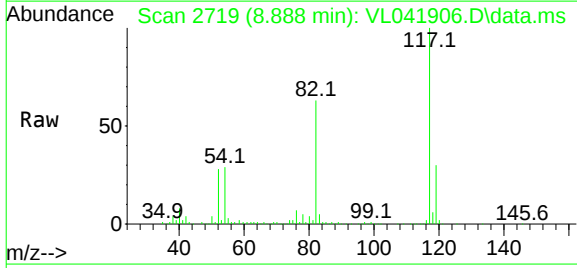
Tgt Ion:	91	Resp:	12736
Ion	Ratio	Lower	Upper
91	100		
92	58.9	47.4	71.0





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.888 min Scan# 2721
Delta R.T. -0.007 min
Lab File: VL041906.D
Acq: 14 Jan 2025 23:22

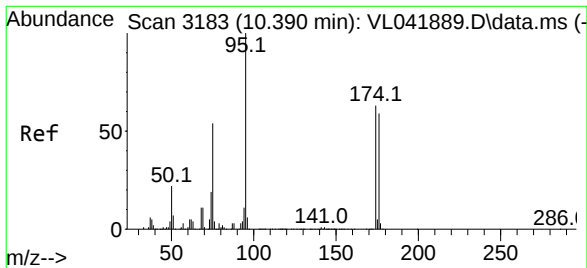
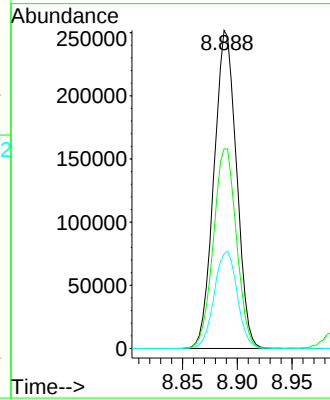
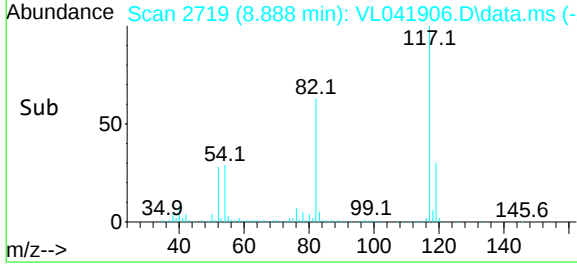
Instrument :
MSVOA_L
ClientSampleId :
SV2



Tgt Ion: 117 Resp: 360198
Ion Ratio Lower Upper
117 100
82 64.5 54.2 81.4
119 31.3 25.0 37.6

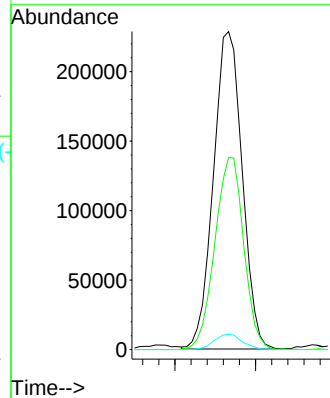
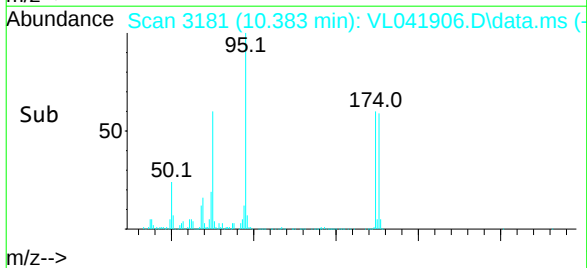
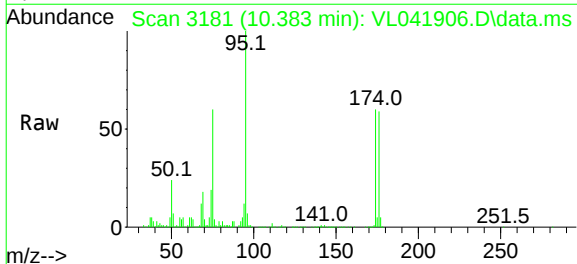
Manual Integrations
APPROVED

Reviewed By : Semsettin Yesilyurt 01/15/2025
Supervised By : Mahesh Dadoda 01/15/2025



#68
1-Bromo-4-Fluorobenzene
Concen: 9.967 ppbv
RT: 10.383 min Scan# 3181
Delta R.T. -0.007 min
Lab File: VL041906.D
Acq: 14 Jan 2025 23:22

Tgt Ion: 95 Resp: 282769
Ion Ratio Lower Upper
95 100
174 61.0 49.0 73.4
175 4.8 3.8 5.8



Report of Analysis

Client:	GFE LLC	Date Collected:	01/11/25
Project:	720 W. 181st NY, NY	Date Received:	01/13/25
Client Sample ID:	SV3	SDG No.:	Q1073
Lab Sample ID:	Q1073-03	Matrix:	Air
Analytical Method:	TO-15	Test:	VOCMS Group3
Sample Wt/Vol:	400	Units:	mL

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL041907.D	4		01/14/25 23:52	VL011425

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-01-4	Vinyl Chloride	0.060	0.15	U	0.15	0.31	ug/m3
75-35-4	1,1-Dichloroethene	0.56	2.22	U	2.22	7.93	ug/m3
156-59-2	cis-1,2-Dichloroethene	0.36	1.43	U	1.43	7.93	ug/m3
71-55-6	1,1,1-Trichloroethane	0.040	0.22	U	0.22	0.65	ug/m3
79-01-6	Trichloroethene	0.070	0.38	U	0.38	0.64	ug/m3
127-18-4	Tetrachloroethene	0.32	2.17		0.41	0.81	ug/m3
SURROGATES							
460-00-4	1-Bromo-4-Fluorobenzene	10.0			65 - 135	100%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	139000			2.79		
540-36-3	1,4-Difluorobenzene	414000			3.968		
3114-55-4	Chlorobenzene-d5	367000			8.885		

U = Not Detected

RL = Reporting Limit

MDL = Method Detection Limit

E = Value Exceeds Calibration Range

D = Dilution

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

Q = indicates LCS control criteria did not meet requirements

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
 Data File : VL041907.D
 Acq On : 14 Jan 2025 23:52
 Operator : SY/MD
 Sample : Q1073-03 4X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV3

Manual Integrations
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Reviewed By :Semsettin Yesilyurt 01/15/2025
 Supervised By :Mahesh Dadoda 01/15/2025

Quant Time: Jan 15 04:22:25 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2

QLast Update : Tue Jan 14 23:15:42 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.790	49	138825	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.968	114	414276	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.885	117	367457	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.380	95	288793	9.978	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.800%
Target Compounds						Qvalue
8) Dichlorotetrafluoroethane	1.554	85	3138	0.190	ppbv	85
10) Heptane	4.981	43	3587m	0.164	ppbv	
13) Ethanol	1.725	45	20629m	34.512	ppbv	
15) Acetone	1.839	43	115916	6.952	ppbv	93
17) tert-Butyl alcohol	2.046	59	9302	0.453	ppbv #	83
19) Isopropyl Alcohol	1.890	45	72150m	7.298	ppbv	
26) Hexane	2.829	57	17822	1.002	ppbv #	34
34) 2-Butanone	2.564	43	50071	1.901	ppbv	98
36) Benzene	3.667	78	6801	0.179	ppbv #	89
41) Tetrahydrofuran	3.069	42	3912m	0.273	ppbv	
51) 2-Hexanone	7.454	43	13871	0.502	ppbv #	98
52) Tetrachloroethene	8.228	164	999m	0.076	ppbv	
53) Toluene	6.940	91	30861	0.746	ppbv	98
58) Ethyl Benzene	9.361	91	1800165	31.347	ppbv	94
60) o-Xylene	9.969	91	8606	0.188	ppbv	100
61) Styrene	9.875	104	299816	14.628	ppbv	98
62) Isopropylbenzene	10.545	105	24044	0.340	ppbv	99
64) n-propylbenzene	10.992	120	1829	0.102	ppbv	65
74) 1,2,4-Trimethylbenzene	11.539	105	6607	0.126	ppbv #	53

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

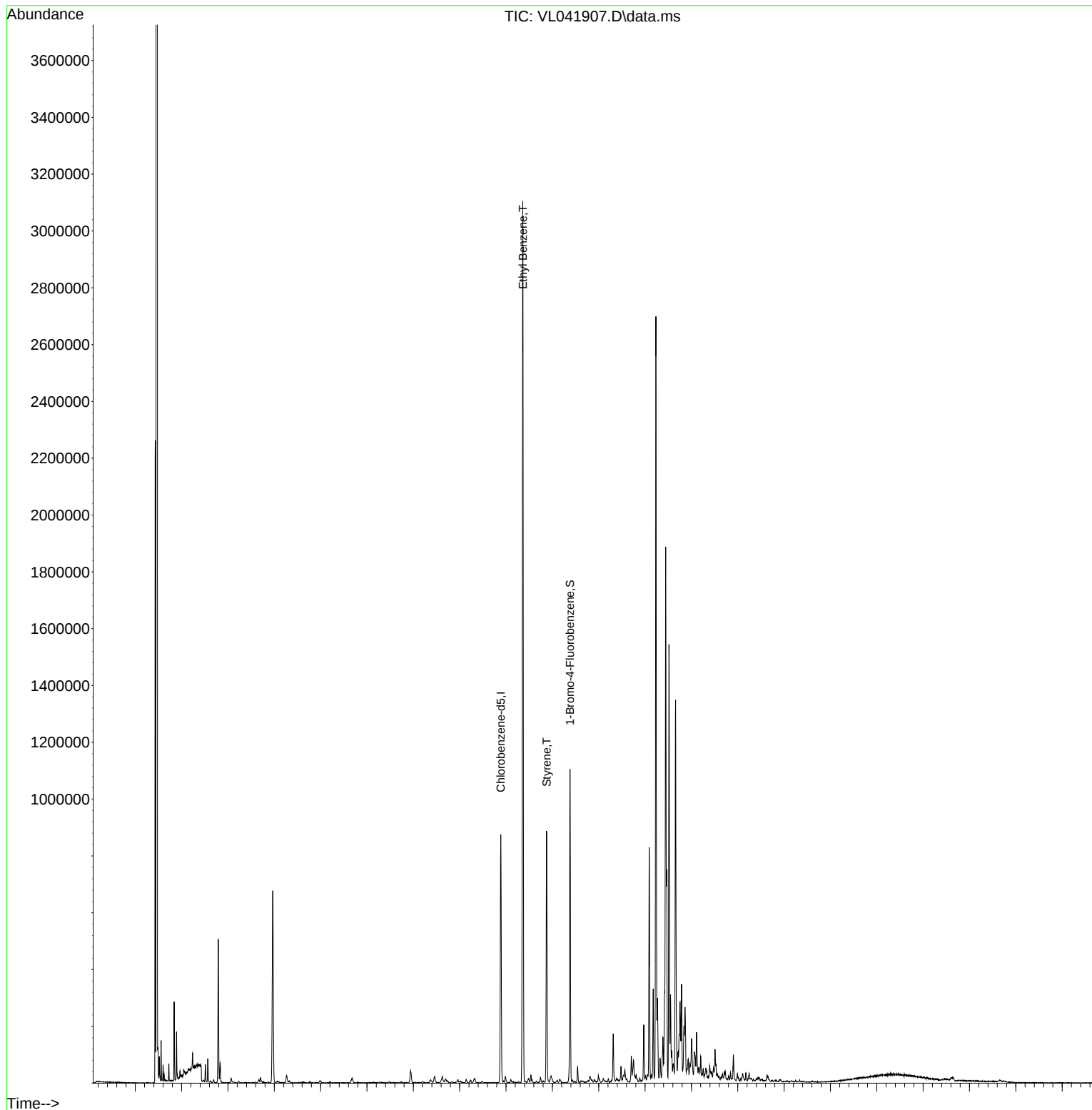
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
Data File : VL041907.D
Acq On : 14 Jan 2025 23:52
Operator : SY/MD
Sample : Q1073-03 4X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

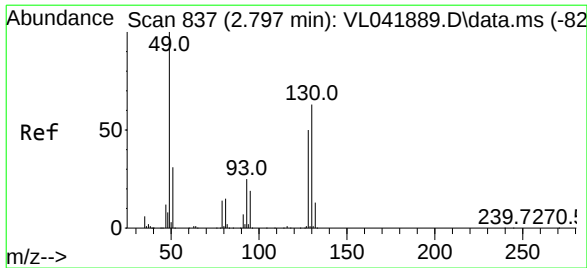
Instrument :
MSVOA_L
ClientSampleId :
SV3

Quant Time: Jan 15 04:22:25 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Tue Jan 14 23:15:42 2025
Response via : Initial Calibration

Manual Integrations
APPROVED

Reviewed By : Semsettin Yesilyurt 01/15/2025
Supervised By : Mahesh Dadoda 01/15/2025





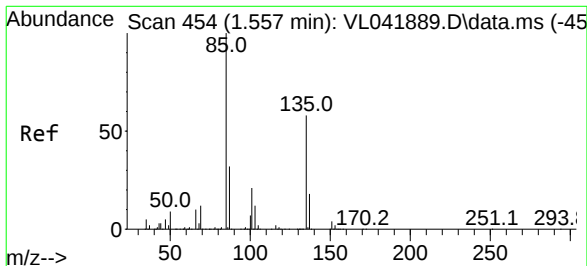
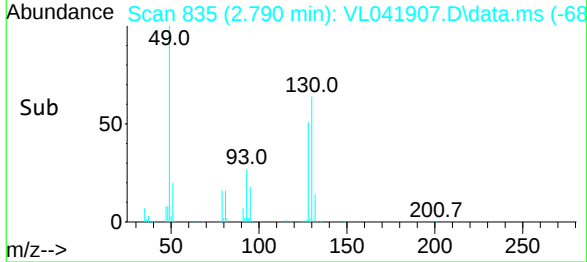
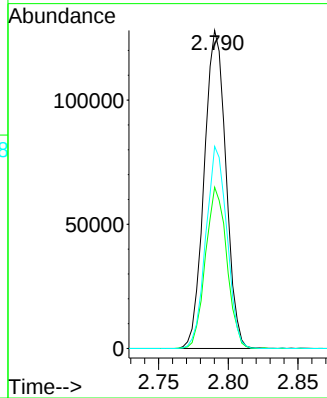
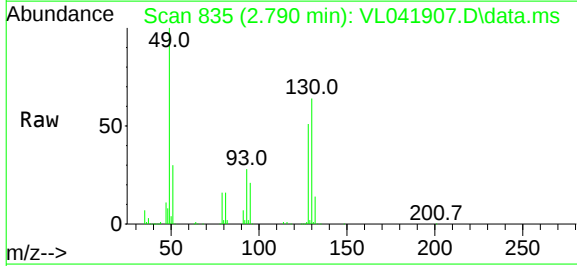
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.790 min Scan# 83
Delta R.T. -0.007 min
Lab File: VL041907.D
Acq: 14 Jan 2025 23:52

Instrument :
MSVOA_L
ClientSampleId :
SV3

Tgt Ion: 49 Resp: 138825
Ion Ratio Lower Upper
49 100
128 49.8 24.3 73.0
130 61.6 31.1 93.2

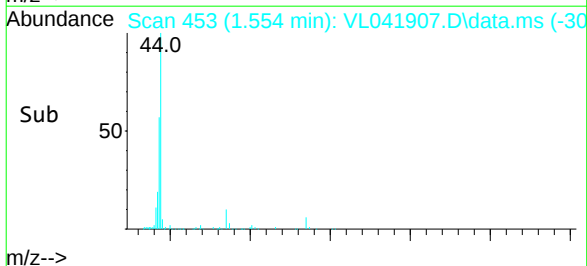
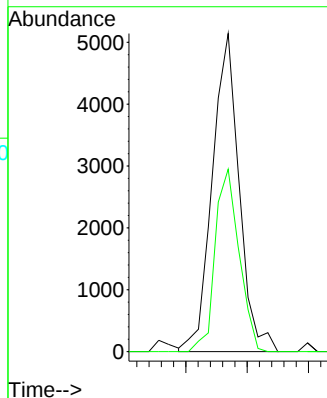
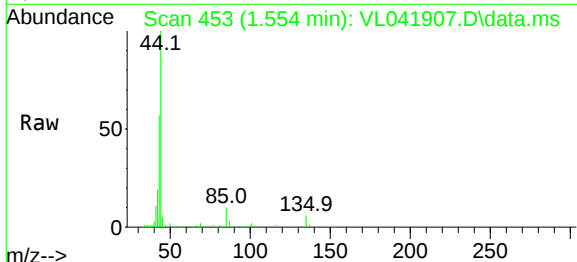
Manual Integrations
APPROVED

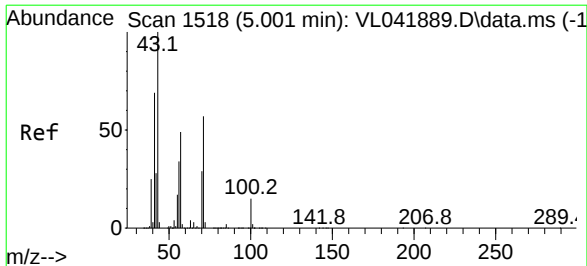
Reviewed By :Semsettin Yesilyurt 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



#8
Dichlorotetrafluoroethane
Concen: 0.190 ppbv
RT: 1.554 min Scan# 453
Delta R.T. -0.003 min
Lab File: VL041907.D
Acq: 14 Jan 2025 23:52

Tgt Ion: 85 Resp: 3138
Ion Ratio Lower Upper
85 100
135 51.1 50.0 75.0





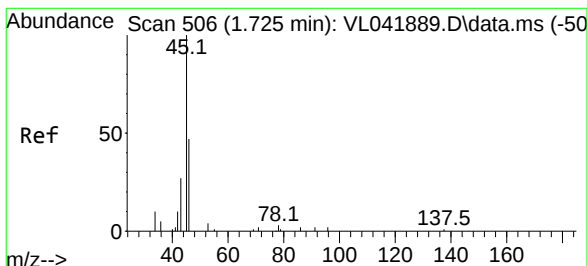
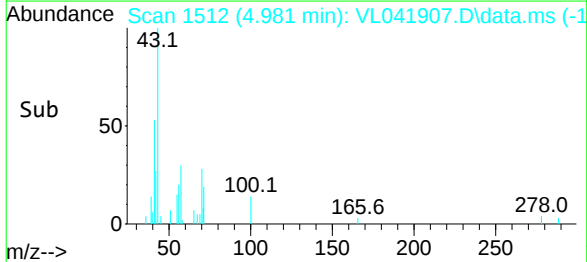
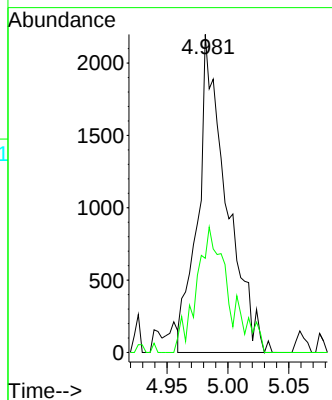
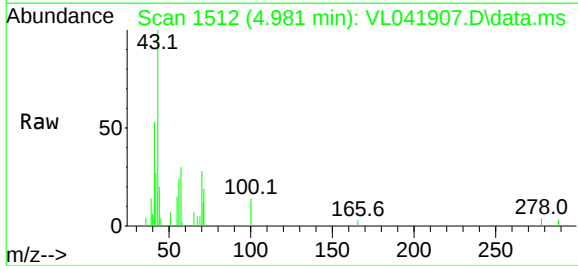
#10
Heptane
Concen: 0.164 ppbv m
RT: 4.981 min Scan# 1518
Delta R.T. -0.019 min
Lab File: VL041907.D
Acq: 14 Jan 2025 23:52

Instrument :
MSVOA_L
ClientSampleId :
SV3

Tgt Ion: 43 Resp: 3587
Ion Ratio Lower Upper
43 100
57 45.6 41.0 61.4

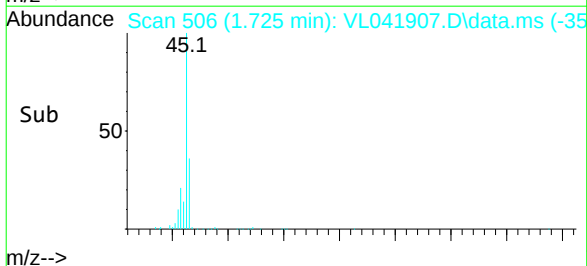
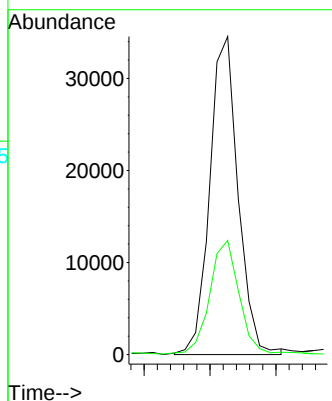
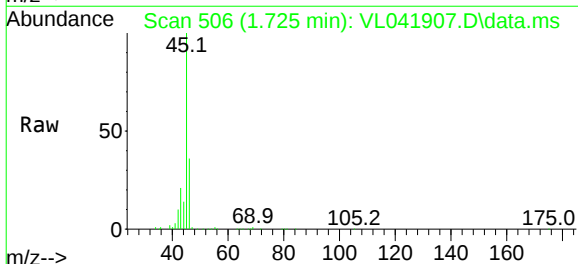
Manual Integrations
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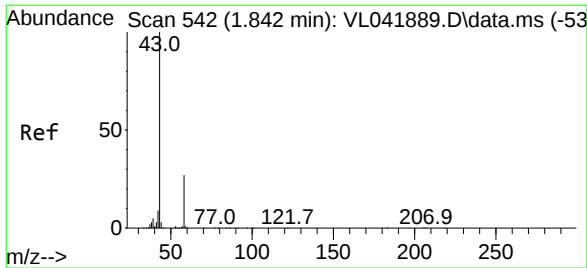
Reviewed By :Semsettin Yesilyurt 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



#13
Ethanol
Concen: 34.512 ppbv m
RT: 1.725 min Scan# 506
Delta R.T. 0.000 min
Lab File: VL041907.D
Acq: 14 Jan 2025 23:52

Tgt Ion: 45 Resp: 20629
Ion Ratio Lower Upper
45 100
46 0.0 18.1 72.5#





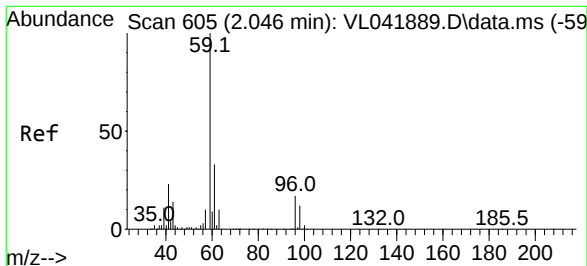
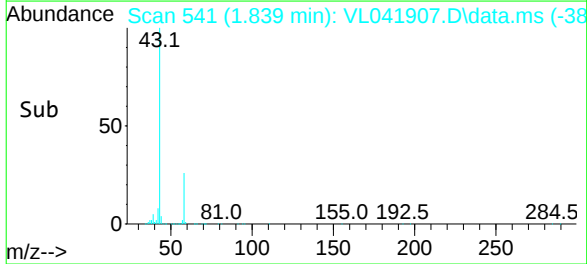
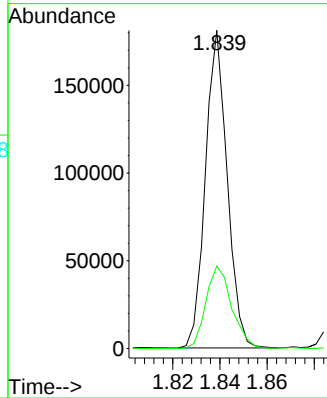
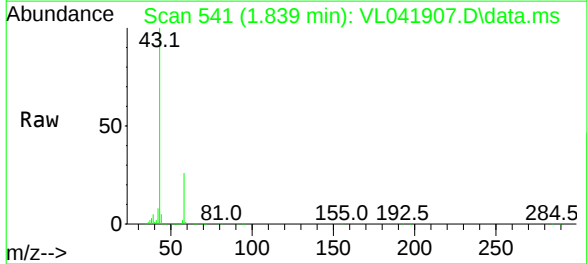
#15
Acetone
Concen: 6.952 ppbv
RT: 1.839 min Scan# 541
Delta R.T. -0.003 min
Lab File: VL041907.D
Acq: 14 Jan 2025 23:52

Instrument :
MSVOA_L
ClientSampleId :
SV3

Tgt Ion: 43 Resp: 115916
Ion Ratio Lower Upper
43 100
58 31.0 21.9 32.9

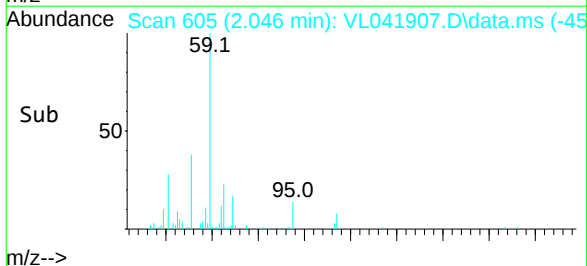
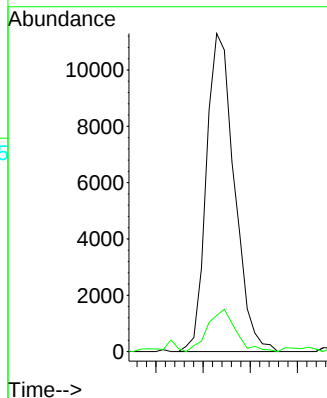
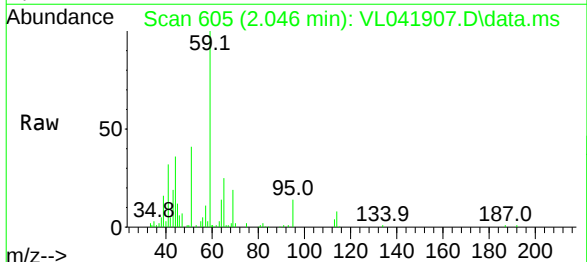
Manual Integrations
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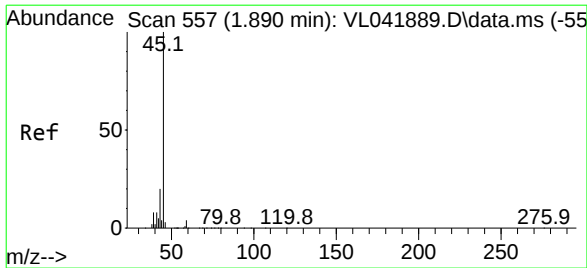
Reviewed By :Semsettin Yesilyurt 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



#17
tert-Butyl alcohol
Concen: 0.453 ppbv
RT: 2.046 min Scan# 605
Delta R.T. 0.000 min
Lab File: VL041907.D
Acq: 14 Jan 2025 23:52

Tgt Ion: 59 Resp: 9302
Ion Ratio Lower Upper
59 100
57 16.0 7.8 11.8#





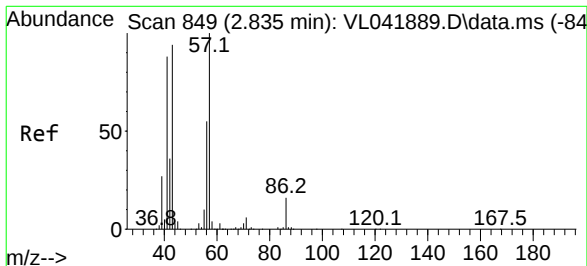
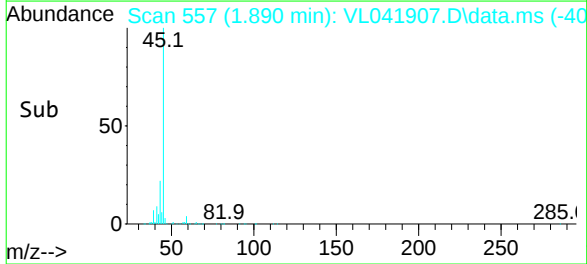
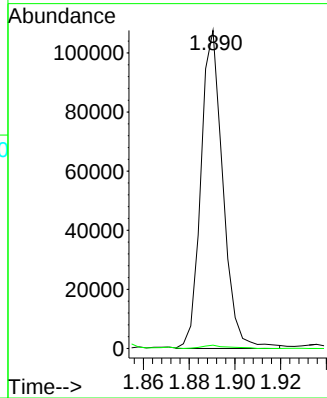
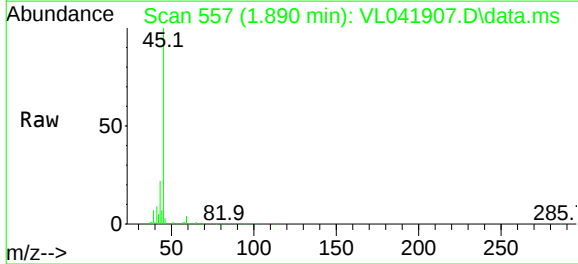
#19
Isopropyl Alcohol
Concen: 7.298 ppbv m
RT: 1.890 min Scan# 557
Delta R.T. 0.000 min
Lab File: VL041907.D
Acq: 14 Jan 2025 23:52

Instrument :
MSVOA_L
ClientSampleId :
SV3

Tgt Ion: 45 Resp: 72150
Ion Ratio Lower Upper
45 100
58 0.0 35.0 52.6#

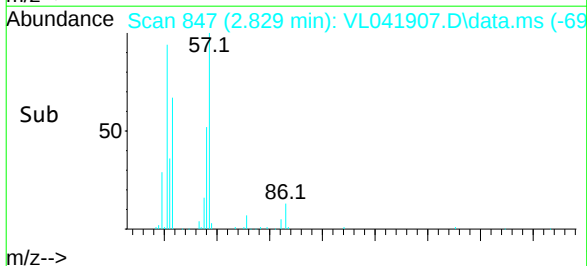
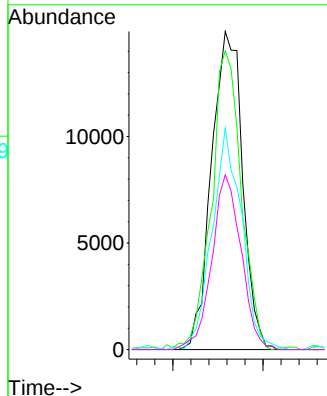
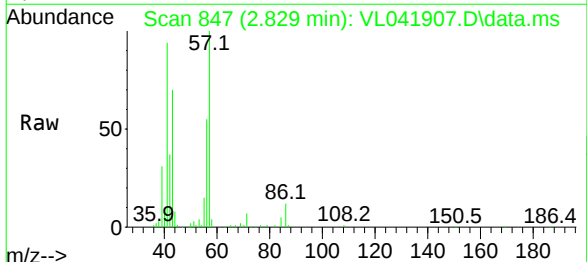
Manual Integrations
APPROVED

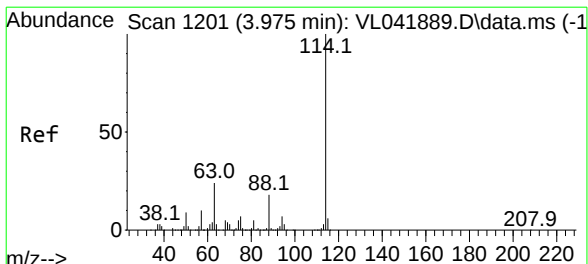
Reviewed By :Semsettin Yesilyurt 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



#26
Hexane
Concen: 1.002 ppbv
RT: 2.829 min Scan# 847
Delta R.T. -0.006 min
Lab File: VL041907.D
Acq: 14 Jan 2025 23:52

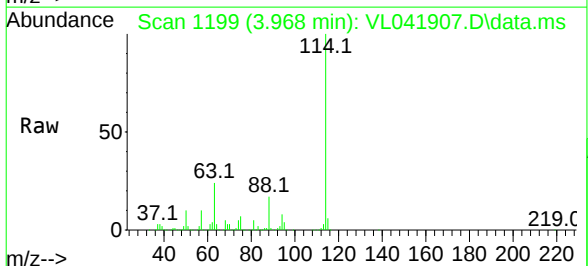
Tgt Ion: 57 Resp: 17822
Ion Ratio Lower Upper
57 100
41 92.4 73.8 110.8
43 67.1 197.3 295.9#
56 51.9 42.7 64.1





#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 3.968 min Scan# 111
 Delta R.T. -0.006 min
 Lab File: VL041907.D
 Acq: 14 Jan 2025 23:52

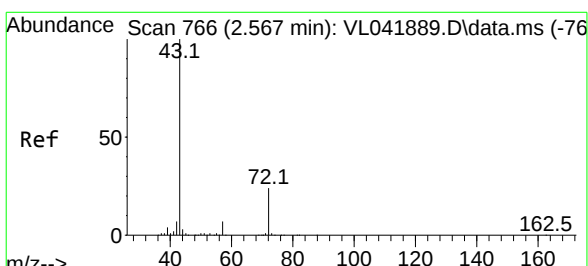
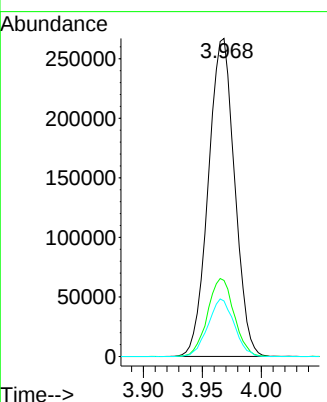
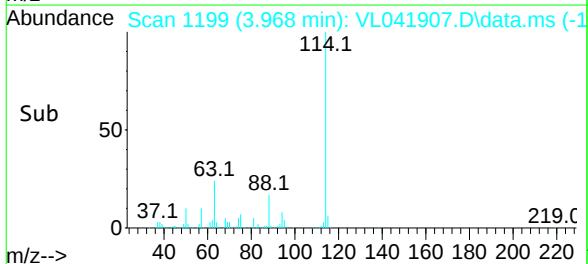
Instrument : MSVOA_L
 ClientSampleId : SV3



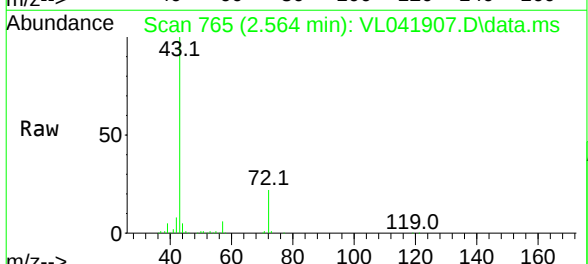
Tgt Ion: 114 Resp: 414276

Ion	Ratio	Lower	Upper
114	100		
63	24.7	19.8	29.6
88	18.0	14.4	21.6

Manual Integrations
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 Reviewed By :Semsettin Yesilyurt 01/15/2025
 Supervised By :Mahesh Dadoda 01/15/2025

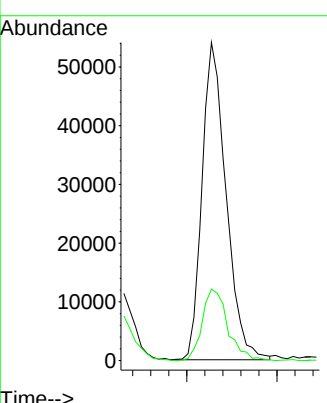
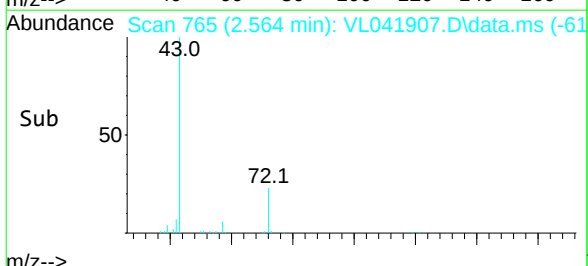


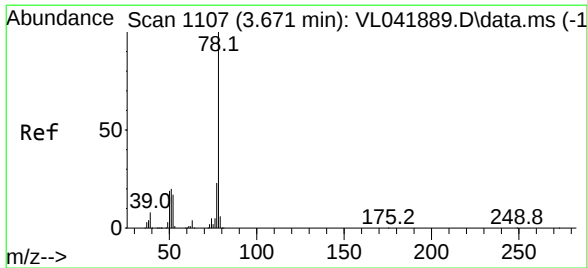
#34
 2-Butanone
 Concen: 1.901 ppbv
 RT: 2.564 min Scan# 765
 Delta R.T. -0.003 min
 Lab File: VL041907.D
 Acq: 14 Jan 2025 23:52



Tgt Ion: 43 Resp: 50071

Ion	Ratio	Lower	Upper
43	100		
72	24.3	18.6	28.0





#36

Benzene

Concen: 0.179 ppbv

RT: 3.667 min Scan# 1107

Delta R.T. -0.003 min

Lab File: VL041907.D

Acq: 14 Jan 2025 23:52

Instrument :

MSVOA_L

ClientSampleId :

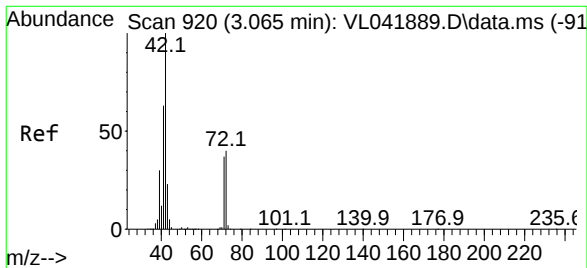
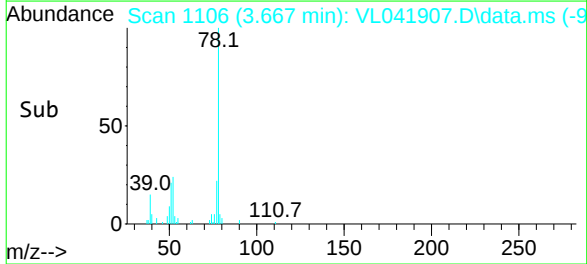
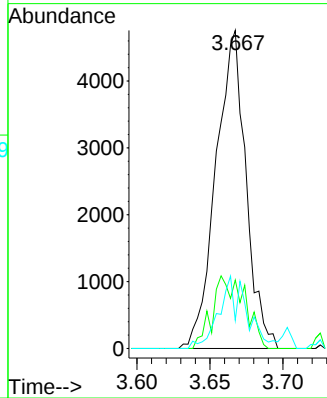
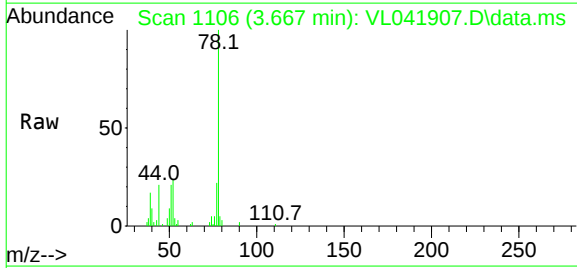
SV3

Tgt	Ion: 78	Resp:	6801
Ion	Ratio	Lower	Upper
78	100		
77	21.5	18.1	27.1
50	8.9	15.2	22.8#

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



#41

Tetrahydrofuran

Concen: 0.273 ppbv m

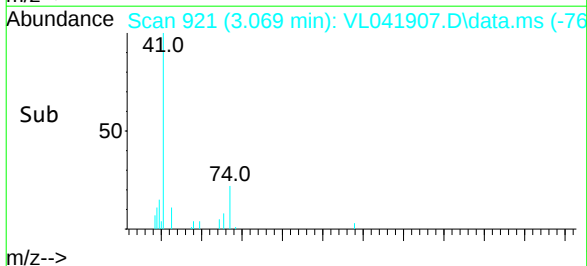
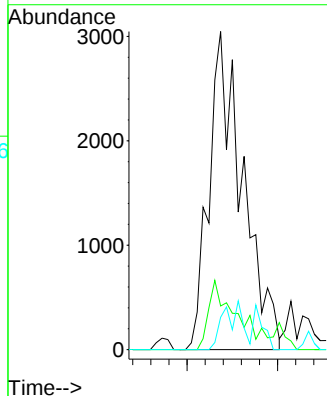
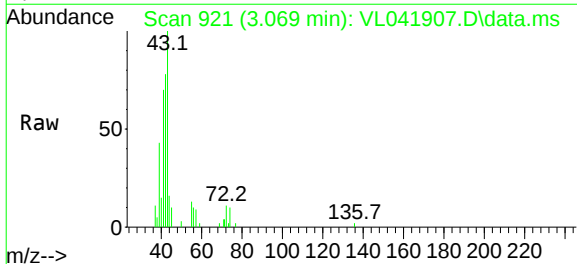
RT: 3.069 min Scan# 921

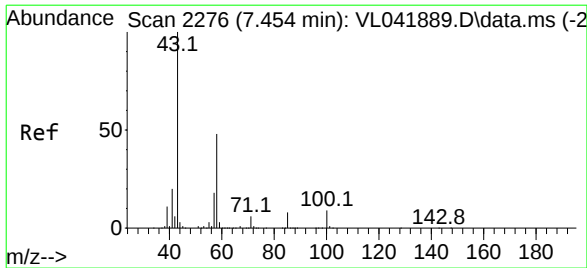
Delta R.T. 0.003 min

Lab File: VL041907.D

Acq: 14 Jan 2025 23:52

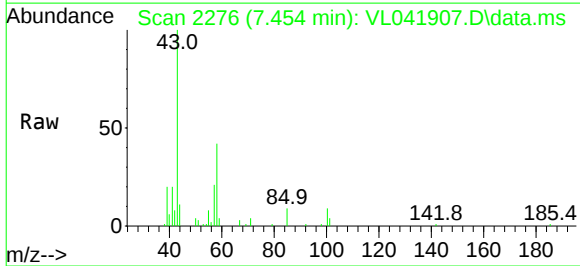
Tgt	Ion: 42	Resp:	3912
Ion	Ratio	Lower	Upper
42	100		
72	21.2	32.3	48.5#
71	14.0	29.9	44.9#





#51
2-Hexanone
Concen: 0.502 ppbv
RT: 7.454 min Scan# 2276
Delta R.T. 0.000 min
Lab File: VL041907.D
Acq: 14 Jan 2025 23:52

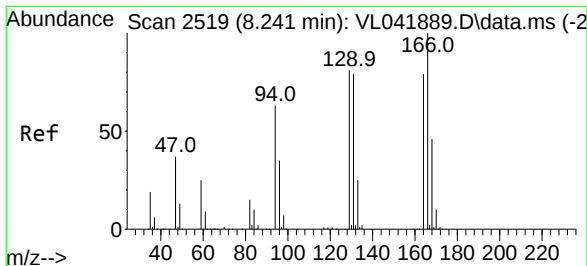
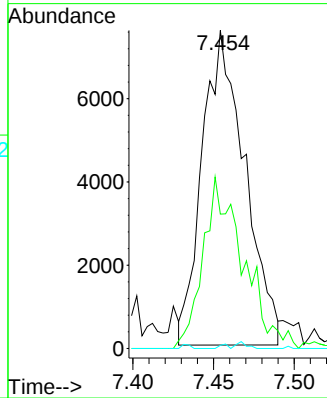
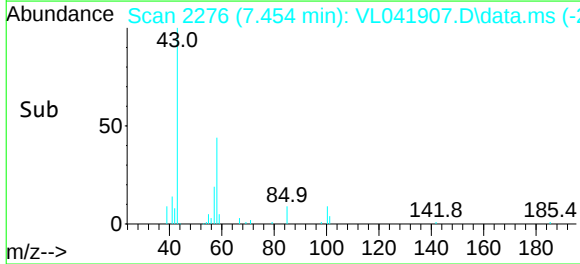
Instrument : MSVOA_L
ClientSampleId : SV3



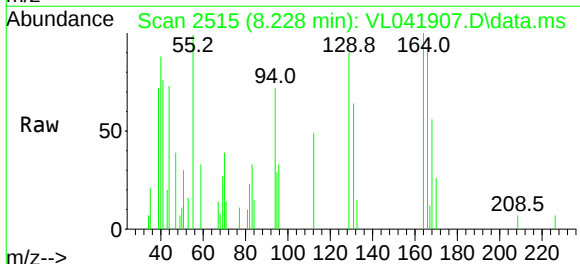
Tgt Ion: 43 Resp: 13871
Ion Ratio Lower Upper
43 100
58 52.1 40.4 60.6
98 0.8 0.2 0.2#

Manual Integrations
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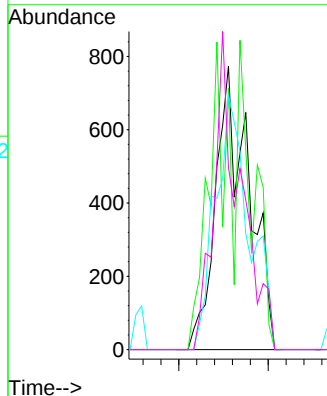
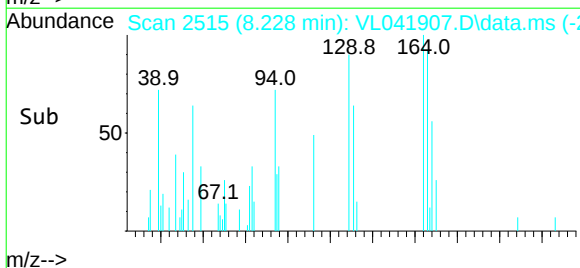
Reviewed By :Semsettin Yesilyurt 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

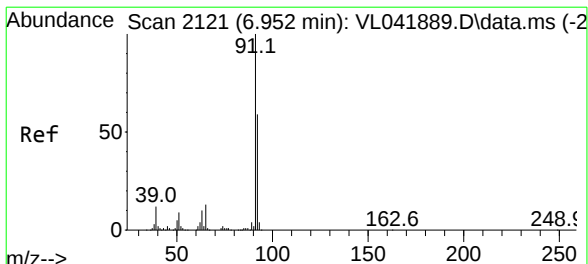


#52
Tetrachloroethene
Concen: 0.076 ppbv m
RT: 8.228 min Scan# 2515
Delta R.T. -0.013 min
Lab File: VL041907.D
Acq: 14 Jan 2025 23:52



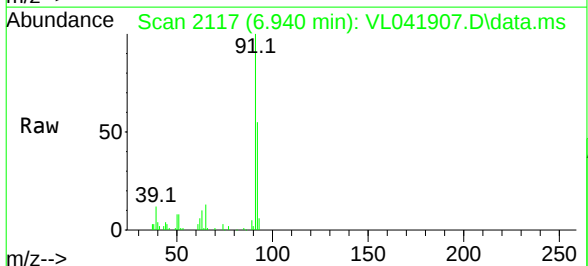
Tgt Ion:164 Resp: 999
Ion Ratio Lower Upper
164 100
166 92.2 100.8 151.2#
129 89.5 82.0 123.0
131 64.2 80.2 120.2#





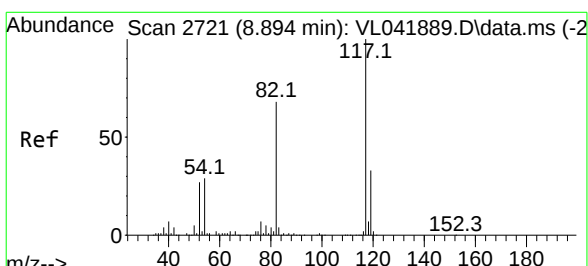
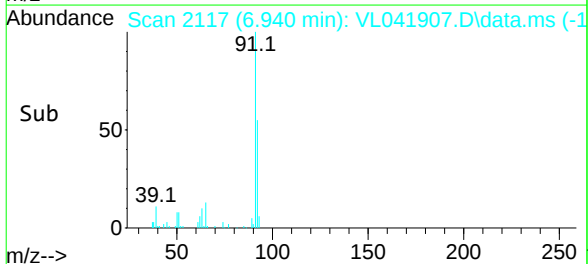
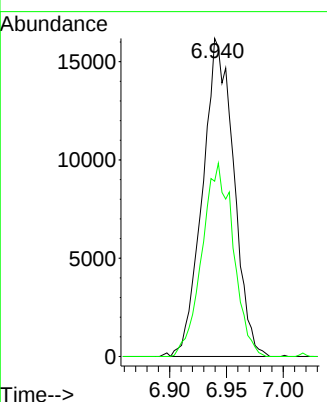
#53
 Toluene
 Concen: 0.746 ppbv
 RT: 6.940 min Scan# 2117
 Delta R.T. -0.013 min
 Lab File: VL041907.D
 Acq: 14 Jan 2025 23:52

Instrument : MSVOA_L
 ClientSampleId : SV3

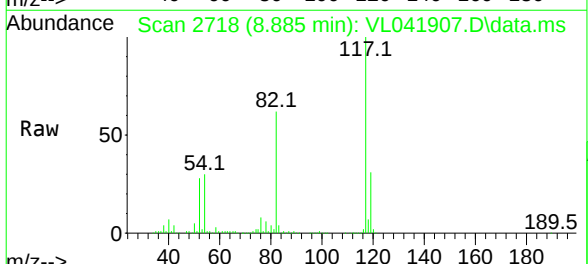


Tgt Ion	Ratio	Lower	Upper
91	100		
92	61.0	47.4	71.0

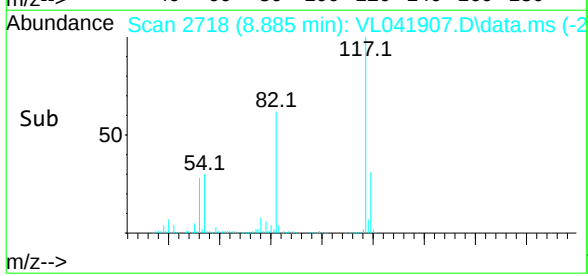
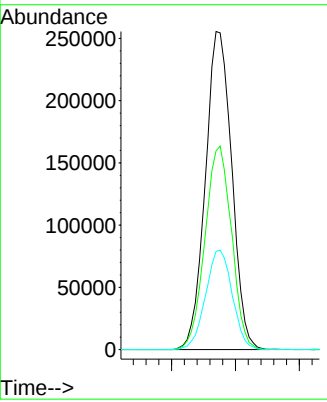
Manual Integrations
APPROVED
 Reviewed By :Semsettin Yesilyurt 01/15/2025
 Supervised By :Mahesh Dadoda 01/15/2025

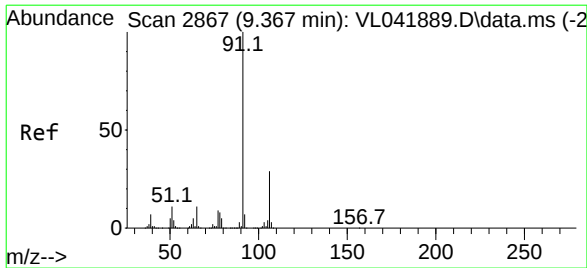


#55
 Chlorobenzene-d5
 Concen: 10.000 ppbv
 RT: 8.885 min Scan# 2718
 Delta R.T. -0.010 min
 Lab File: VL041907.D
 Acq: 14 Jan 2025 23:52



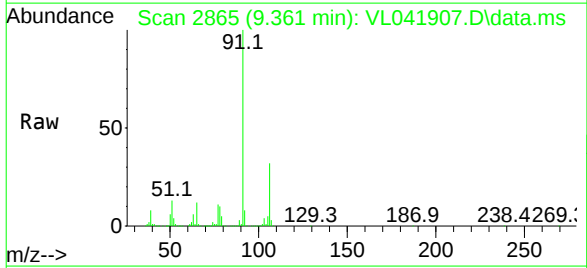
Tgt Ion	Ratio	Lower	Upper
117	100		
82	64.3	54.2	81.4
119	31.6	25.0	37.6





#58
Ethyl Benzene
Concen: 31.347 ppbv
RT: 9.361 min Scan# 2865
Delta R.T. -0.006 min
Lab File: VL041907.D
Acq: 14 Jan 2025 23:52

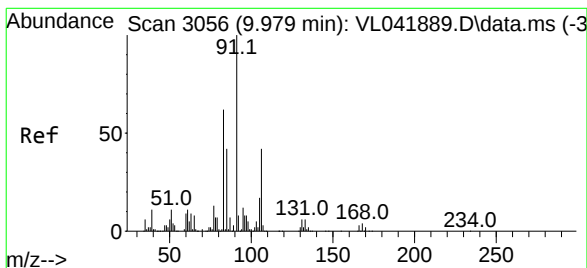
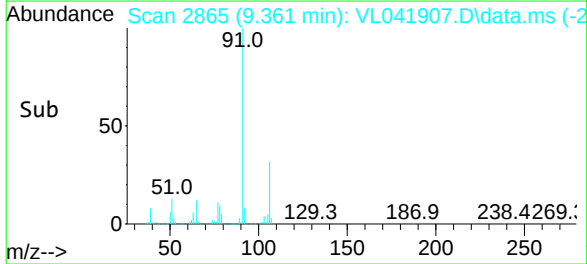
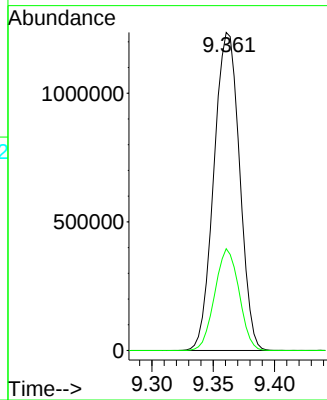
Instrument : MSVOA_L
Client SampleId : SV3



Tgt Ion: 91 Resp: 1800165
Ion Ratio Lower Upper
91 100
106 32.0 23.1 34.7

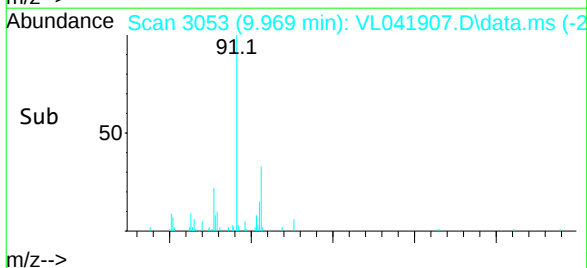
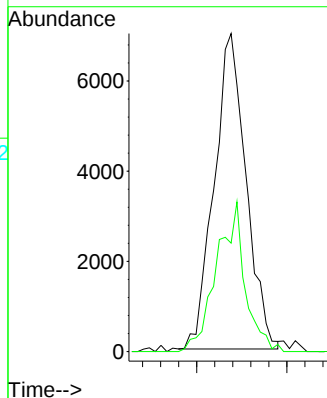
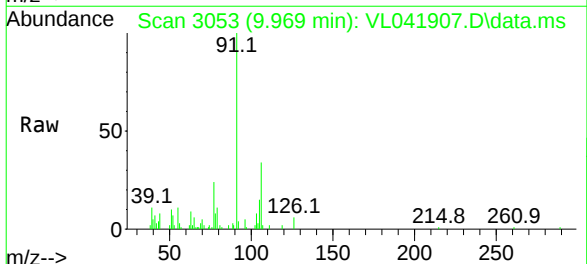
Manual Integrations
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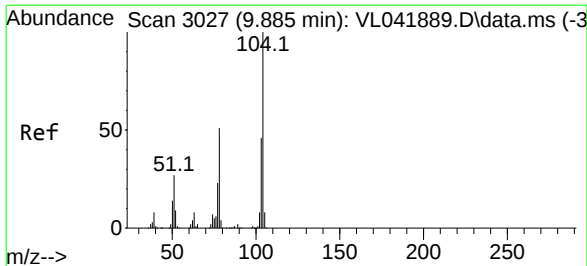
Reviewed By : Semsettin Yesilyurt 01/15/2025
Supervised By : Mahesh Dadoda 01/15/2025



#60
o-Xylene
Concen: 0.188 ppbv
RT: 9.969 min Scan# 3053
Delta R.T. -0.010 min
Lab File: VL041907.D
Acq: 14 Jan 2025 23:52

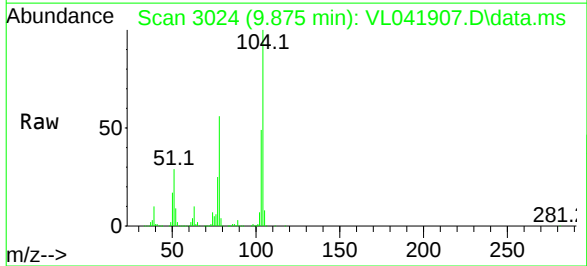
Tgt Ion: 91 Resp: 8606
Ion Ratio Lower Upper
91 100
106 42.4 21.3 63.9





#61
Styrene
Concen: 14.628 ppbv
RT: 9.875 min Scan# 3027
Delta R.T. -0.010 min
Lab File: VL041907.D
Acq: 14 Jan 2025 23:52

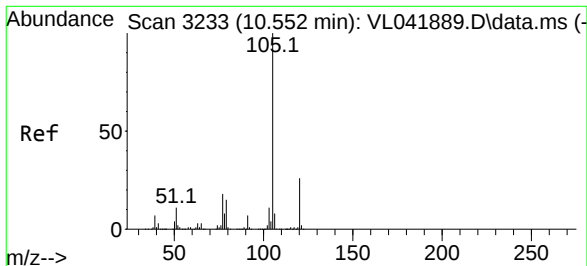
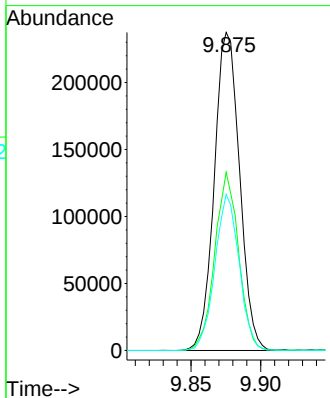
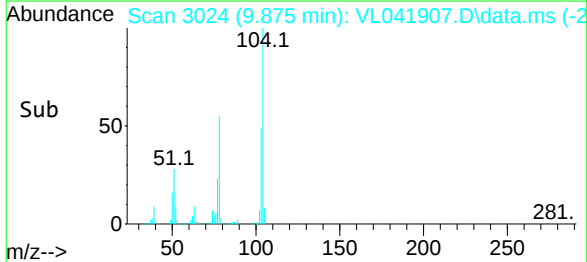
Instrument :
MSVOA_L
ClientSampleId :
SV3



Tgt Ion:104 Resp: 299816
Ion Ratio Lower Upper
104 100
78 52.7 41.0 61.6
103 47.2 37.2 55.8

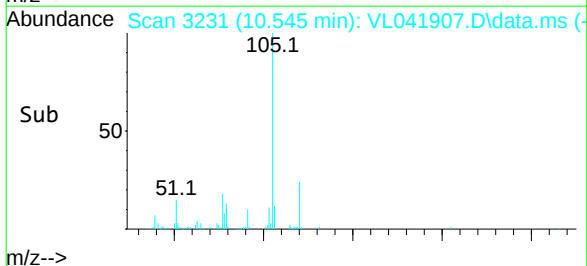
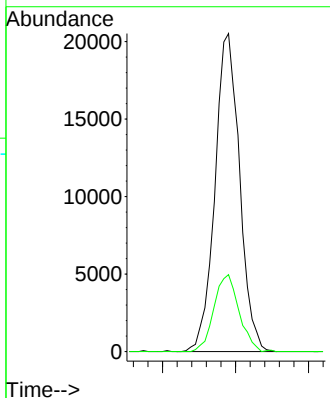
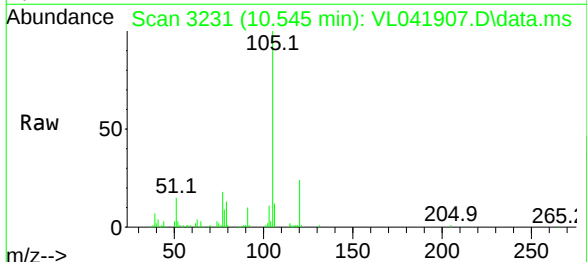
Manual Integrations
APPROVED

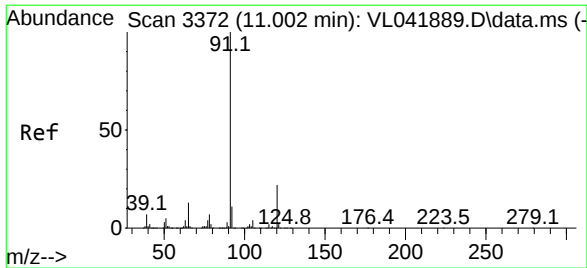
Reviewed By :Semsettin Yesilyurt 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



#62
Isopropylbenzene
Concen: 0.340 ppbv
RT: 10.545 min Scan# 3231
Delta R.T. -0.006 min
Lab File: VL041907.D
Acq: 14 Jan 2025 23:52

Tgt Ion:105 Resp: 24044
Ion Ratio Lower Upper
105 100
120 24.7 20.3 30.5





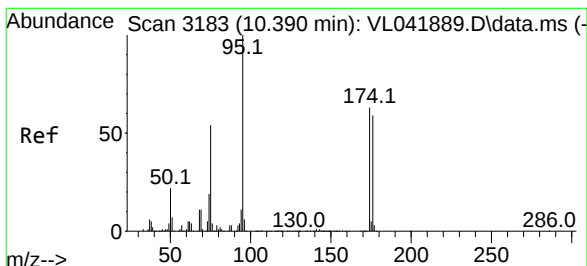
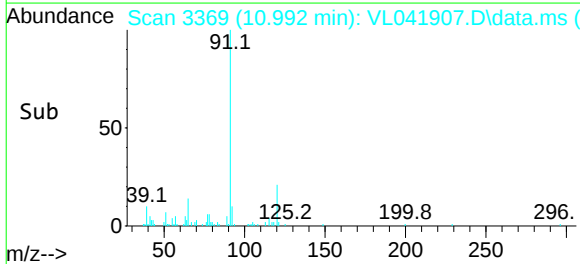
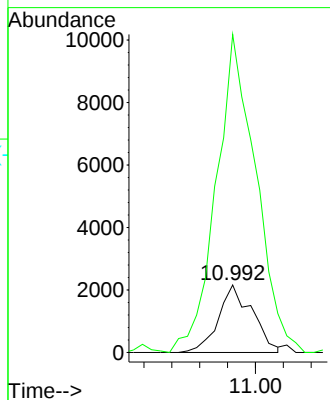
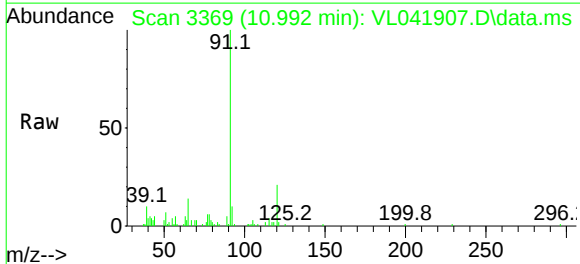
#64
n-propylbenzene
Concen: 0.102 ppbv
RT: 10.992 min Scan# 3372
Delta R.T. -0.010 min
Lab File: VL041907.D
Acq: 14 Jan 2025 23:52

Instrument :
MSVOA_L
ClientSampleId :
SV3

Tgt Ion: 120 Resp: 1829
Ion Ratio Lower Upper
120 100
91 558.8 374.1 561.1

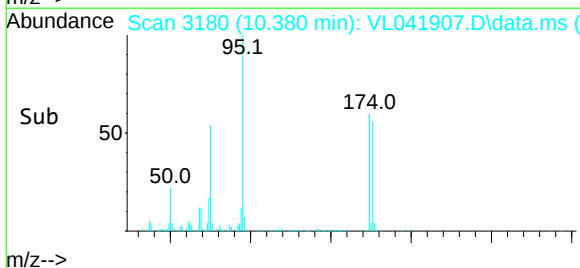
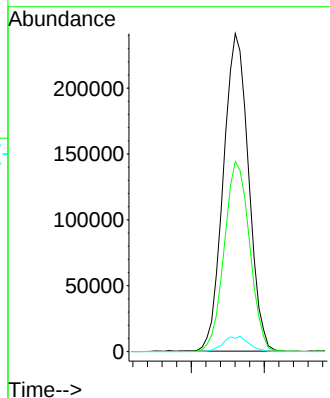
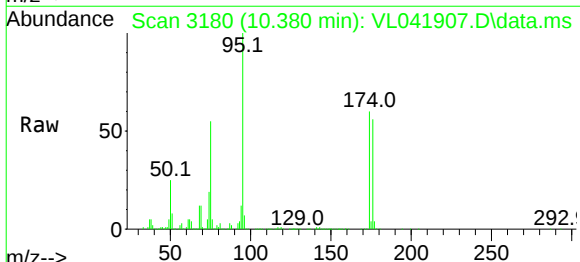
Manual Integrations
APPROVED

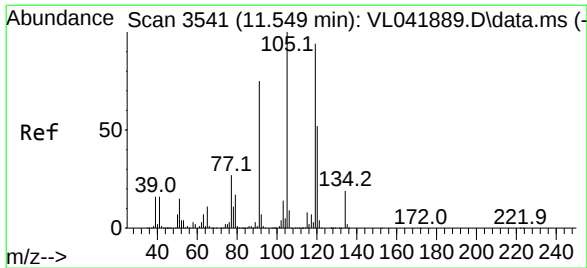
Reviewed By :Semsettin Yesilyurt 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



#68
1-Bromo-4-Fluorobenzene
Concen: 9.978 ppbv
RT: 10.380 min Scan# 3180
Delta R.T. -0.010 min
Lab File: VL041907.D
Acq: 14 Jan 2025 23:52

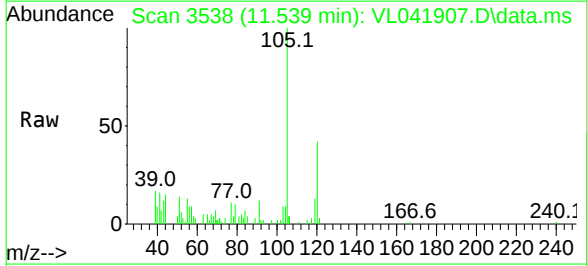
Tgt Ion: 95 Resp: 288793
Ion Ratio Lower Upper
95 100
174 60.5 49.0 73.4
175 4.9 3.8 5.8





#74
 1,2,4-Trimethylbenzene
 Concen: 0.126 ppbv
 RT: 11.539 min Scan# 35
 Delta R.T. -0.010 min
 Lab File: VL041907.D
 Acq: 14 Jan 2025 23:52

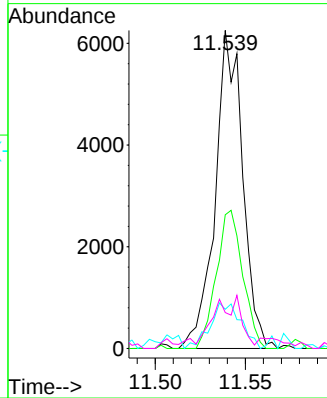
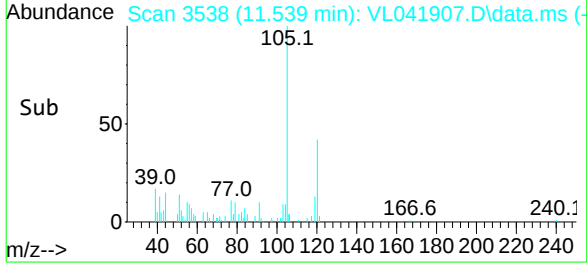
Instrument :
 MSVOA_L
 ClientSampleId :
 SV3



Tgt Ion:	105	Resp:	6607
Ion Ratio	Lower	Upper	
105	100		
120	42.0	41.4	62.2
91	12.3	60.2	90.2#
77	10.0	22.0	33.0#

Manual Integrations
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Reviewed By :Semsettin Yesilyurt 01/15/2025
 Supervised By :Mahesh Dadoda 01/15/2025



Report of Analysis

Client:	GFE LLC	Date Collected:	01/11/25
Project:	720 W. 181st NY, NY	Date Received:	01/13/25
Client Sample ID:	IA1	SDG No.:	Q1073
Lab Sample ID:	Q1073-04	Matrix:	Air
Analytical Method:	TO-15	Test:	VOCMS Group3
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL041901.D	1		01/14/25 20:40	VL011425

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-01-4	Vinyl Chloride	0.010	0.030	U	0.030	0.080	ug/m3
75-35-4	1,1-Dichloroethene	0.14	0.56	U	0.56	1.98	ug/m3
156-59-2	cis-1,2-Dichloroethene	0.090	0.36	U	0.36	1.98	ug/m3
71-55-6	1,1,1-Trichloroethane	0.010	0.050	U	0.050	0.16	ug/m3
79-01-6	Trichloroethene	0.020	0.11	U	0.11	0.16	ug/m3
127-18-4	Tetrachloroethene	0.090	0.61		0.14	0.20	ug/m3
SURROGATES							
460-00-4	1-Bromo-4-Fluorobenzene	10.0			65 - 135	100%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	138000		2.79			
540-36-3	1,4-Difluorobenzene	399000		3.965			
3114-55-4	Chlorobenzene-d5	344000		8.885			

U = Not Detected

RL = Reporting Limit

MDL = Method Detection Limit

E = Value Exceeds Calibration Range

D = Dilution

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

Q = indicates LCS control criteria did not meet requirements

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
 Data File : VL041901.D
 Acq On : 14 Jan 2025 20:40
 Operator : SY/MD
 Sample : Q1073-04
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA1

Quant Time: Jan 15 03:26:45 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2
 QLast Update : Tue Jan 14 23:15:42 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 01/15/2025
 Supervised By : Mahesh Dadoda 01/15/2025

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

Internal Standards						
1) Bromochloromethane	2.790	49	138054	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.965	114	398730	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.885	117	344203	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.380	95	271467	10.013	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	= 100.100%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.499	85	8271	0.440	ppbv	97
4) Chloromethane	1.534	50	4102	0.580	ppbv	99
9) Propene	1.489	41	6720	0.828	ppbv #	82
10) Heptane	4.985	43	2940m	0.136	ppbv	
11) Trichlorofluoromethane	1.881	101	4357	0.223	ppbv	92
12) 1,1,2-Trichlorotrifluo...	2.143	101	1502	0.098	ppbv #	79
13) Ethanol	1.722	45	30323	51.014	ppbv	90
15) Acetone	1.839	43	74062	4.467	ppbv	97
19) Isopropyl Alcohol	1.887	45	25827	2.627	ppbv #	54
20) Methylene Chloride	2.062	84	2103	0.321	ppbv #	92
26) Hexane	2.829	57	5562	0.315	ppbv #	56
34) 2-Butanone	2.564	43	30106	1.187	ppbv	97
35) Carbon Tetrachloride	3.761	117	2161m	0.086	ppbv	
36) Benzene	3.661	78	7984	0.218	ppbv #	80
52) Tetrachloroethene	8.228	164	1170m	0.092	ppbv	
53) Toluene	6.940	91	26956	0.677	ppbv	97

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

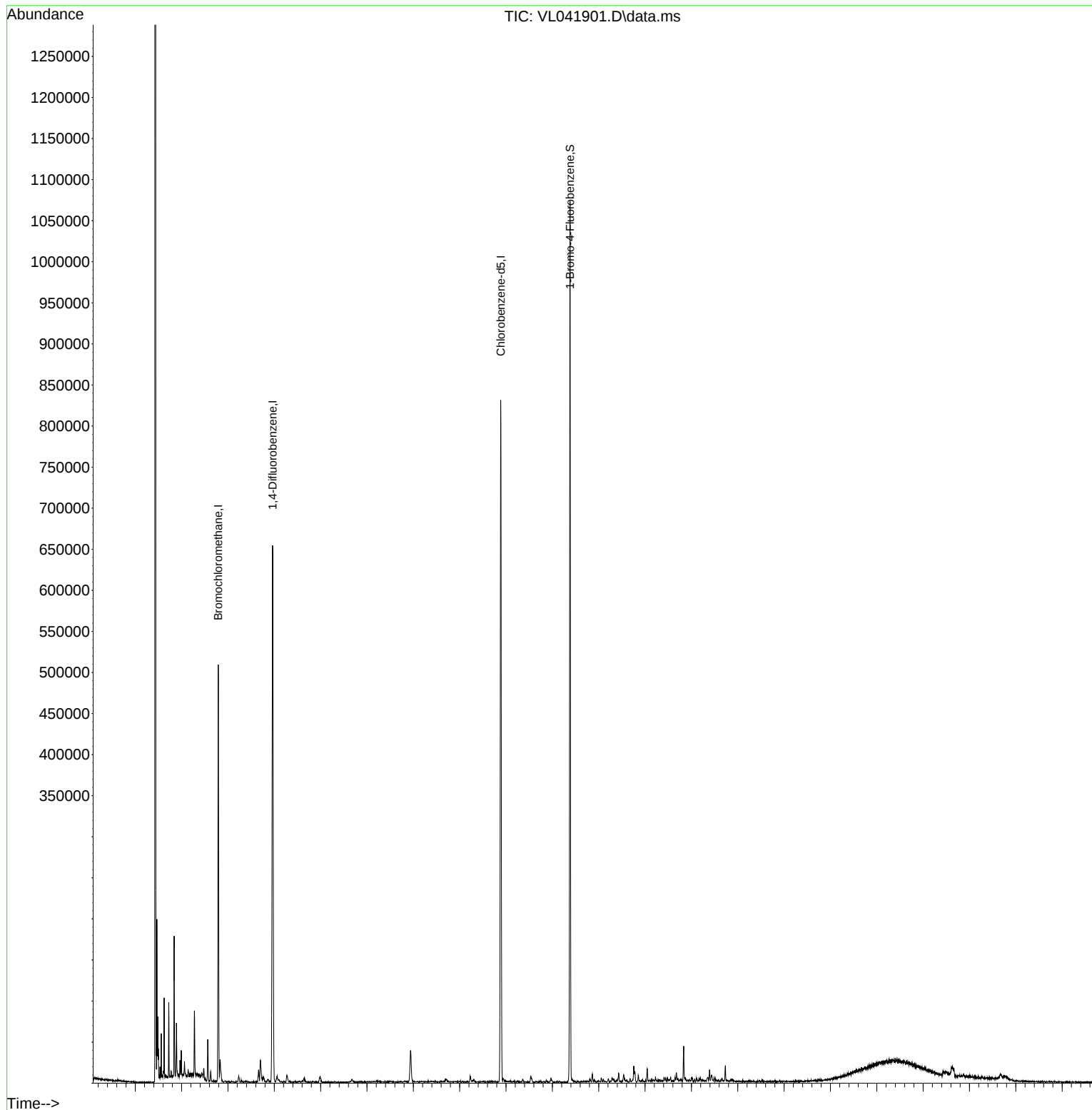
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
Data File : VL041901.D
Acq On : 14 Jan 2025 20:40
Operator : SY/MD
Sample : Q1073-04
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

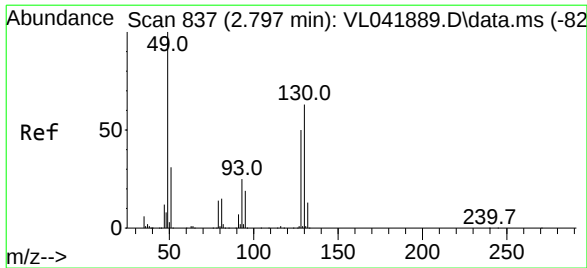
Instrument :
MSVOA_L
ClientSampleId :
IA1

Quant Time: Jan 15 03:26:45 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Tue Jan 14 23:15:42 2025
Response via : Initial Calibration

Manual Integrations
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Reviewed By : Semsettin Yesilyurt 01/15/2025
Supervised By : Mahesh Dadoda 01/15/2025





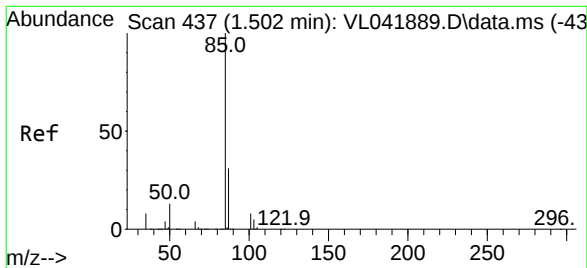
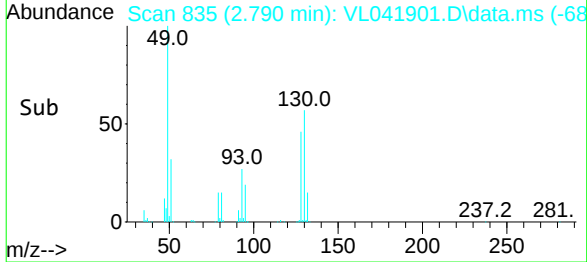
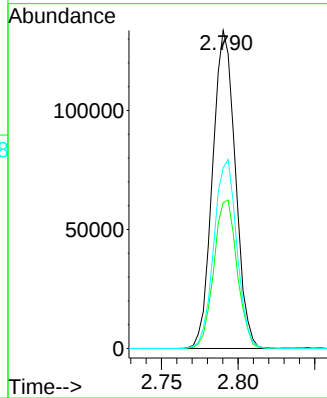
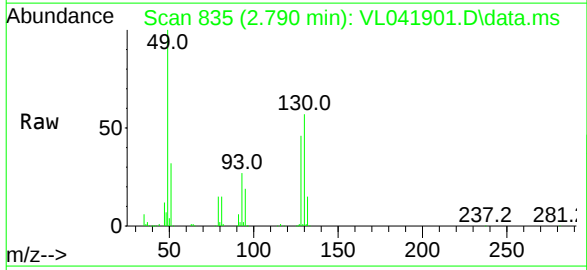
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.790 min Scan# 837
Delta R.T. -0.007 min
Lab File: VL041901.D
Acq: 14 Jan 2025 20:40

Instrument :
MSVOA_L
ClientSampleId :
IA1

Tgt Ion: 49 Resp: 138054
Ion Ratio Lower Upper
49 100
128 47.7 24.3 73.0
130 59.8 31.1 93.2

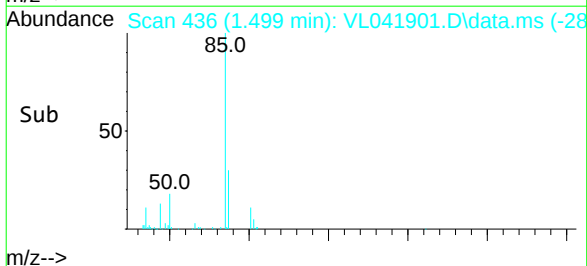
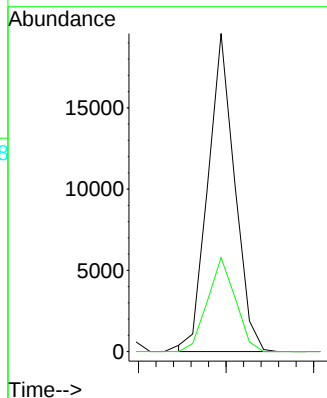
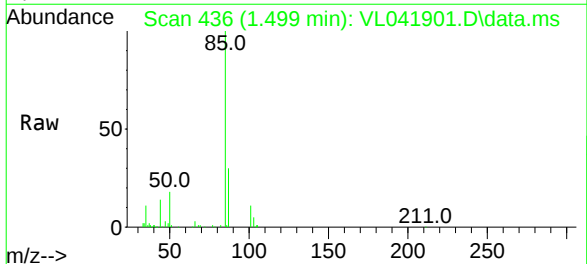
Manual Integrations
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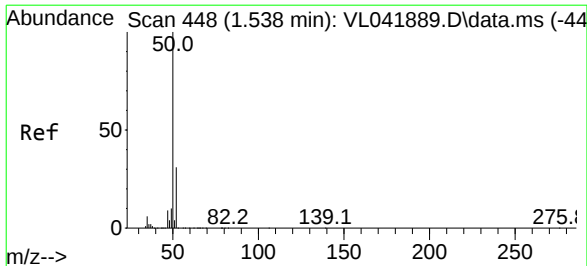
Reviewed By :Semsettin Yesilyurt 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



#2
Dichlorodifluoromethane
Concen: 0.440 ppbv
RT: 1.499 min Scan# 436
Delta R.T. -0.003 min
Lab File: VL041901.D
Acq: 14 Jan 2025 20:40

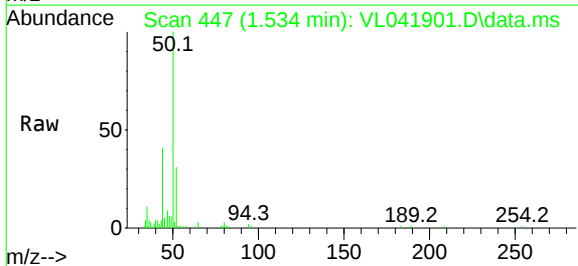
Tgt Ion: 85 Resp: 8271
Ion Ratio Lower Upper
85 100
87 29.6 24.9 37.3





#4
Chloromethane
Concen: 0.580 ppbv
RT: 1.534 min Scan# 44
Delta R.T. -0.003 min
Lab File: VL041901.D
Acq: 14 Jan 2025 20:40

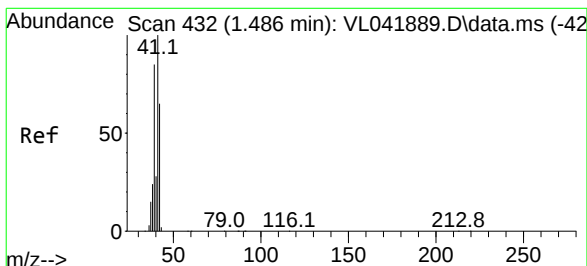
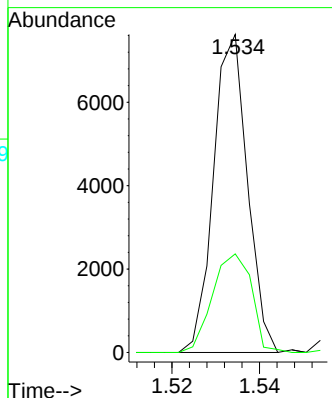
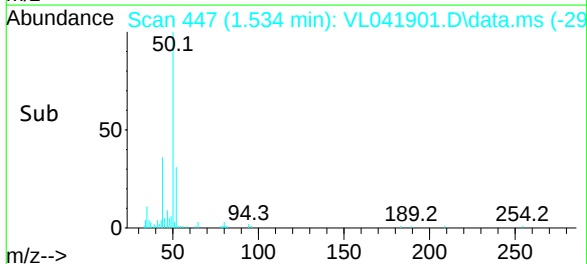
Instrument :
MSVOA_L
ClientSampleId :
IA1



Tgt Ion: 50 Resp: 4102
Ion Ratio Lower Upper
50 100
52 31.0 24.6 36.8

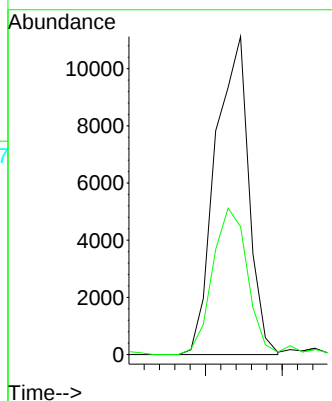
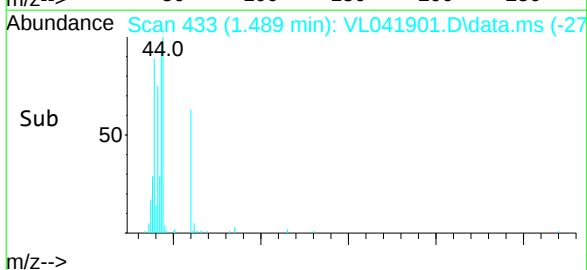
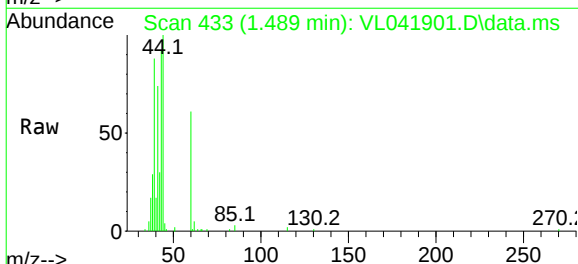
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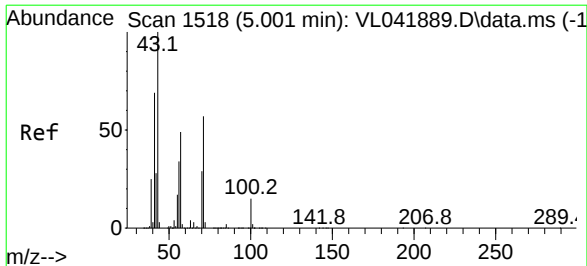
Reviewed By :Semsettin Yesilyurt 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



#9
Propene
Concen: 0.828 ppbv
RT: 1.489 min Scan# 433
Delta R.T. 0.003 min
Lab File: VL041901.D
Acq: 14 Jan 2025 20:40

Tgt Ion: 41 Resp: 6720
Ion Ratio Lower Upper
41 100
42 50.5 52.0 78.0#





#10

Heptane

Concen: 0.136 ppbv m

RT: 4.985 min Scan# 1518

Delta R.T. -0.016 min

Lab File: VL041901.D

Acq: 14 Jan 2025 20:40

Instrument :

MSVOA_L

ClientSampleId :

IA1

Tgt Ion: 43 Resp: 2940

Ion Ratio Lower Upper

43 100

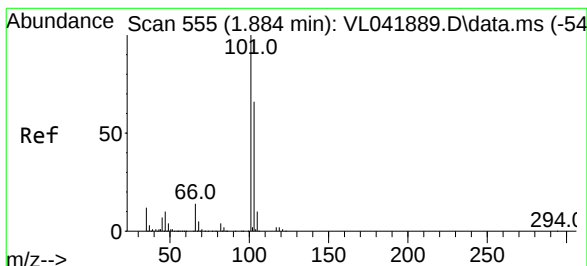
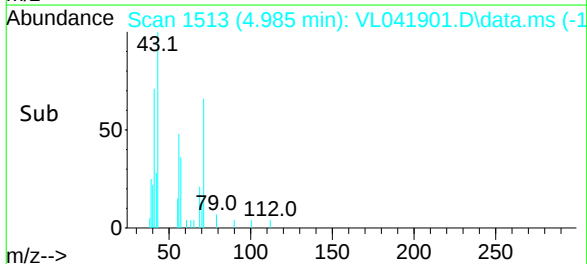
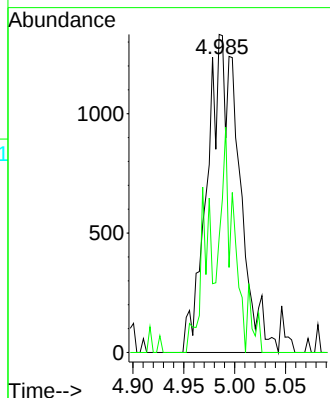
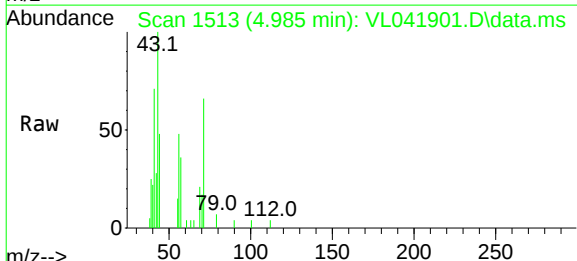
57 0.0 41.0 61.4#

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#11

Trichlorofluoromethane

Concen: 0.223 ppbv

RT: 1.881 min Scan# 554

Delta R.T. -0.003 min

Lab File: VL041901.D

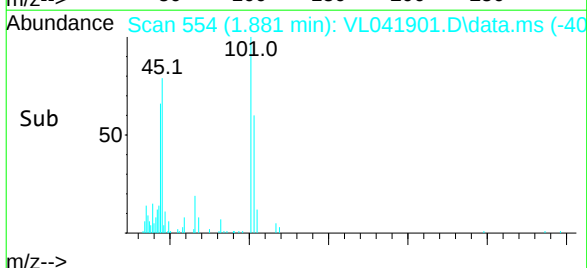
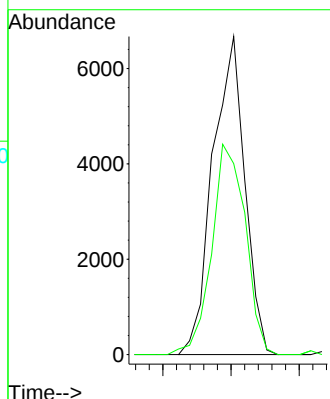
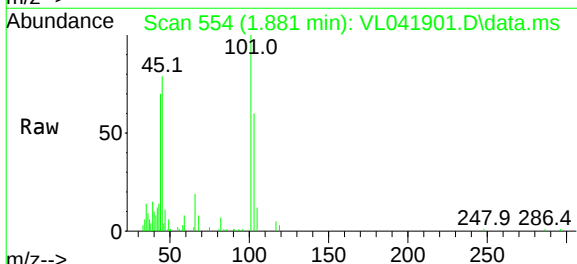
Acq: 14 Jan 2025 20:40

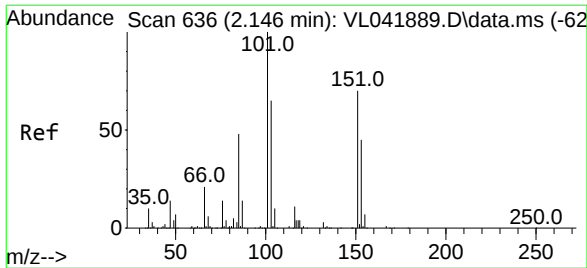
Tgt Ion:101 Resp: 4357

Ion Ratio Lower Upper

101 100

103 60.1 53.1 79.7





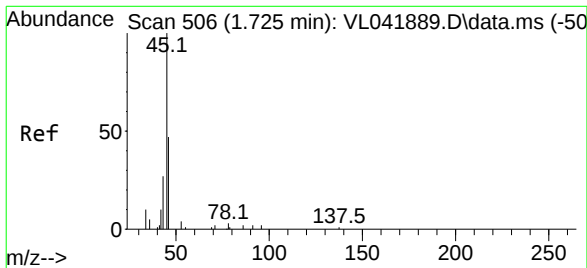
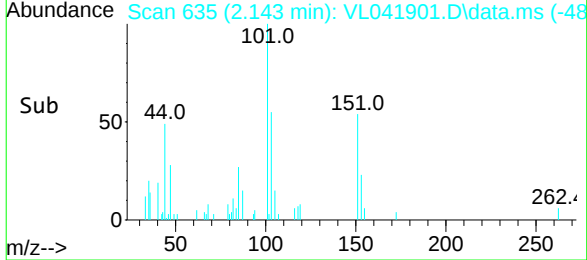
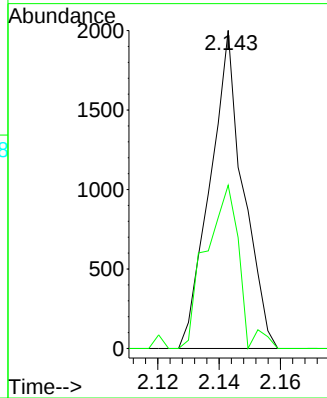
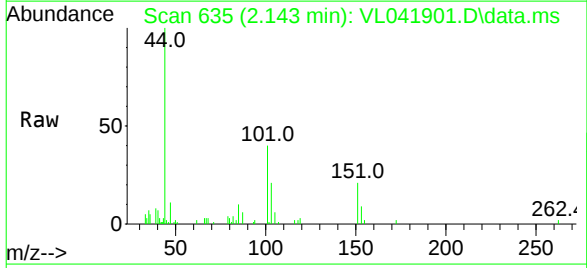
#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.098 ppbv
RT: 2.143 min Scan# 636
Delta R.T. -0.003 min
Lab File: VL041901.D
Acq: 14 Jan 2025 20:40

Instrument :
MSVOA_L
ClientSampleId :
IA1

Tgt Ion: 101 Resp: 1502
Ion Ratio Lower Upper
101 100
151 52.9 56.1 84.1#

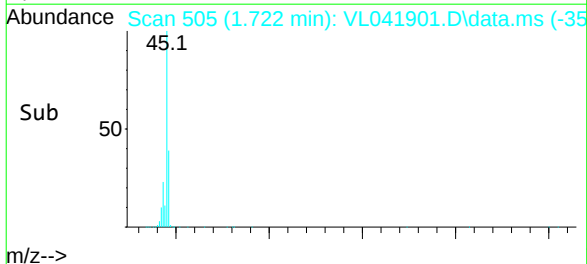
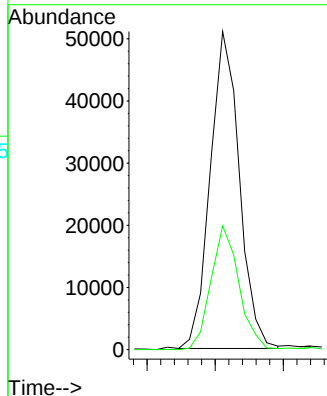
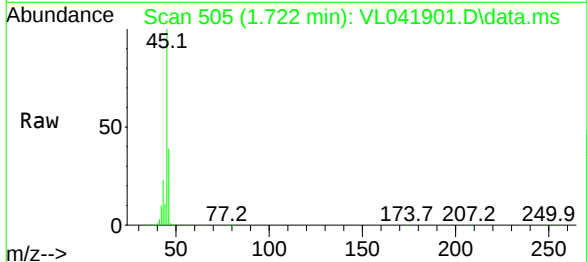
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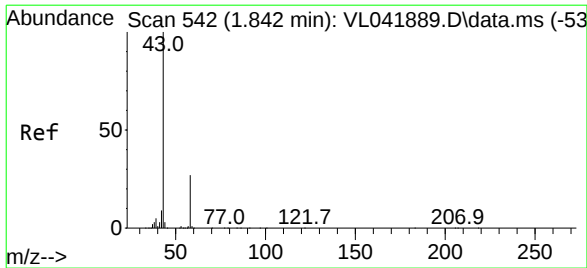
Reviewed By :Semsettin Yesilyurt 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



#13
Ethanol
Concen: 51.014 ppbv
RT: 1.722 min Scan# 505
Delta R.T. -0.003 min
Lab File: VL041901.D
Acq: 14 Jan 2025 20:40

Tgt Ion: 45 Resp: 30323
Ion Ratio Lower Upper
45 100
46 38.6 18.1 72.5





#15

Acetone

Concen: 4.467 ppbv

RT: 1.839 min Scan# 541

Delta R.T. -0.003 min

Lab File: VL041901.D

Acq: 14 Jan 2025 20:40

Instrument :

MSVOA_L

ClientSampleId :

IA1

Tgt Ion: 43 Resp: 74062

Ion Ratio Lower Upper

43 100

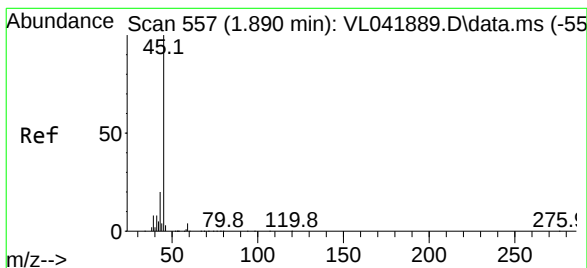
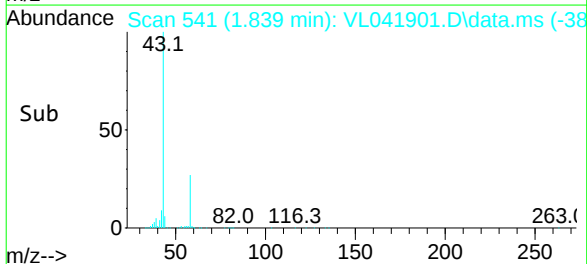
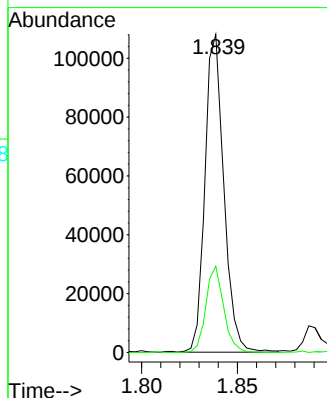
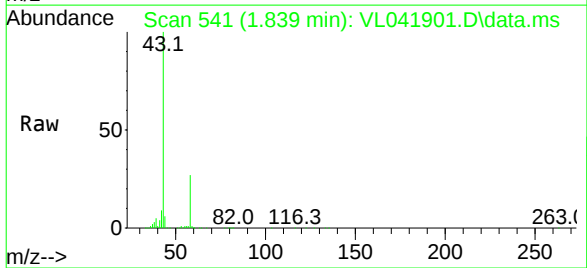
58 25.7 21.9 32.9

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#19

Isopropyl Alcohol

Concen: 2.627 ppbv

RT: 1.887 min Scan# 556

Delta R.T. -0.003 min

Lab File: VL041901.D

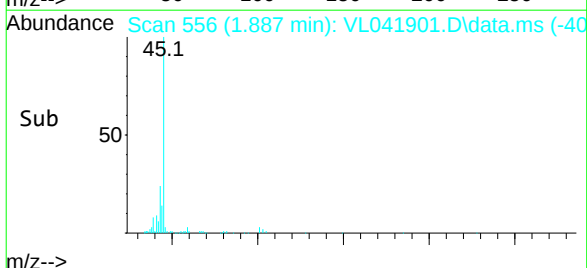
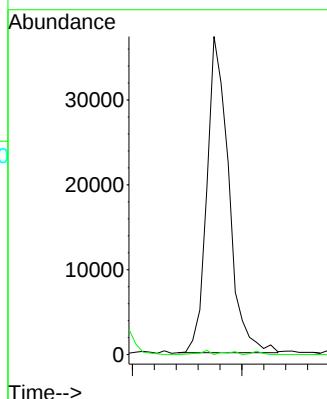
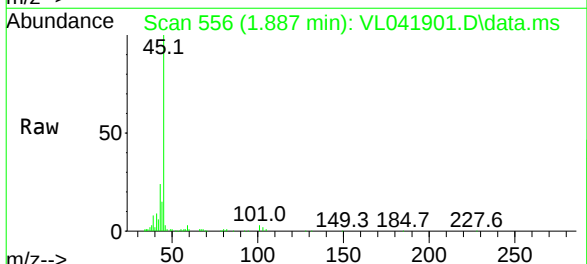
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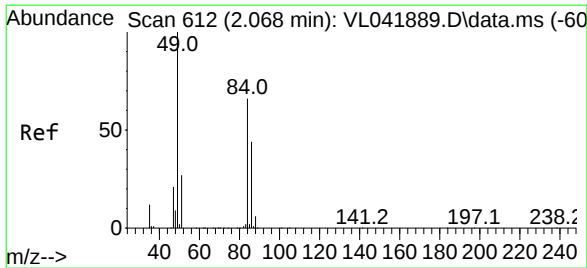
Tgt Ion: 45 Resp: 25827

Ion Ratio Lower Upper

45 100

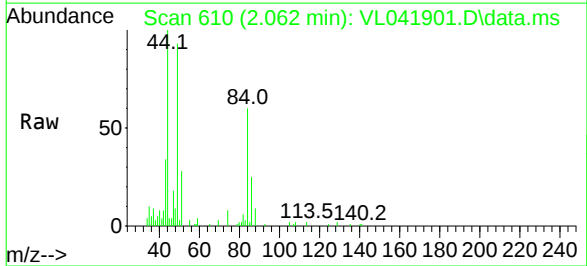
58 73.6 35.0 52.6#





#20
Methylene Chloride
Concen: 0.321 ppbv
RT: 2.062 min Scan# 61
Delta R.T. -0.006 min
Lab File: VL041901.D
Acq: 14 Jan 2025 20:40

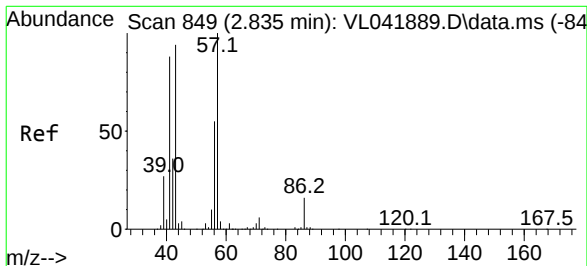
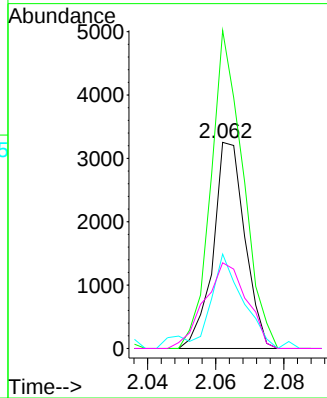
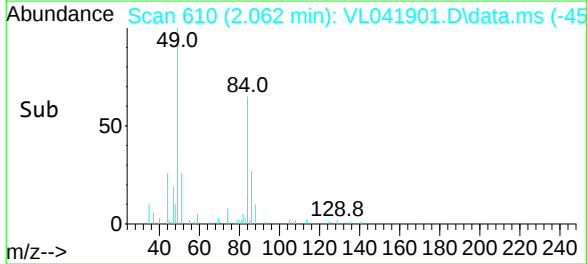
Instrument :
MSVOA_L
ClientSampleId :
IA1



Tgt Ion:	84	Resp:	2103
Ion	Ratio	Lower	Upper
84	100		
49	154.3	123.1	184.7
51	45.8	35.8	53.8
86	41.6	53.7	80.5#

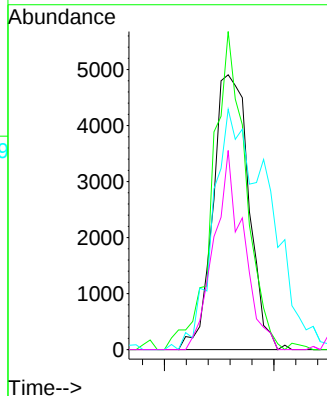
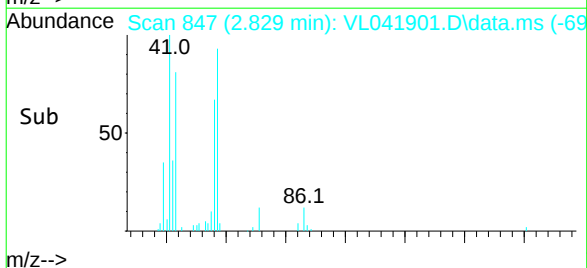
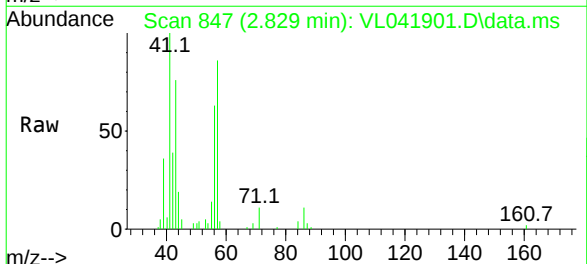
Manual Integrations
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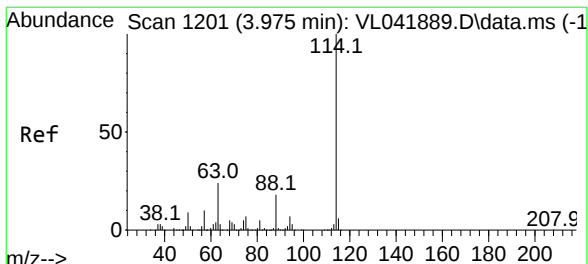
Reviewed By :Semsettin Yesilyurt 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



#26
Hexane
Concen: 0.315 ppbv
RT: 2.829 min Scan# 847
Delta R.T. -0.006 min
Lab File: VL041901.D
Acq: 14 Jan 2025 20:40

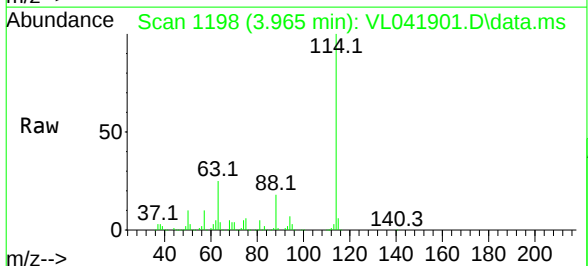
Tgt Ion:	57	Resp:	5562
Ion	Ratio	Lower	Upper
57	100		
41	109.0	73.8	110.8
43	139.0	197.3	295.9#
56	59.2	42.7	64.1





#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 3.965 min Scan# 11
 Delta R.T. -0.010 min
 Lab File: VL041901.D
 Acq: 14 Jan 2025 20:40

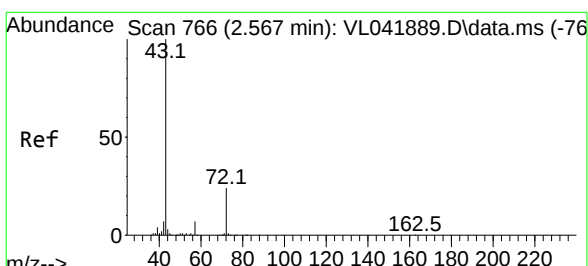
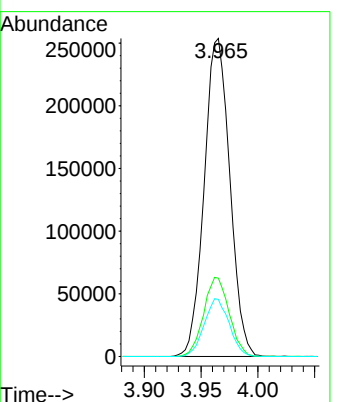
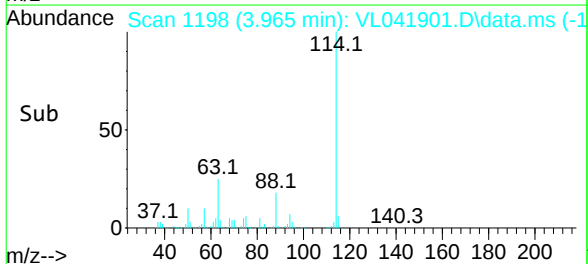
Instrument : MSVOA_L
 ClientSampleId : IA1



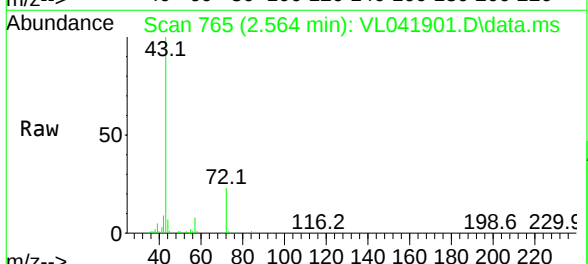
Tgt Ion: 114 Resp: 398730

Ion	Ratio	Lower	Upper
114	100		
63	24.7	19.8	29.6
88	17.6	14.4	21.6

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 Reviewed By :Semsettin Yesilyurt 01/15/2025
 Supervised By :Mahesh Dadoda 01/15/2025

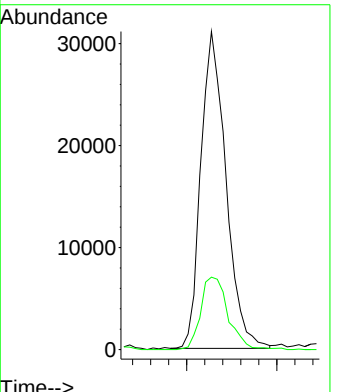
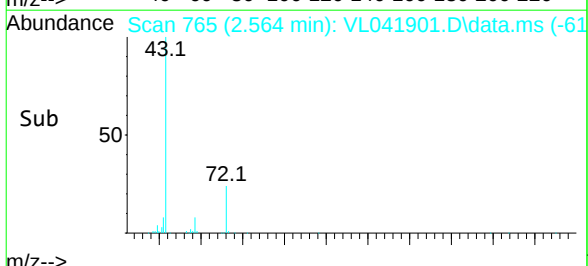


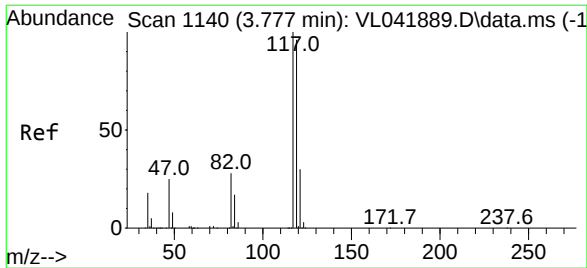
#34
 2-Butanone
 Concen: 1.187 ppbv
 RT: 2.564 min Scan# 765
 Delta R.T. -0.003 min
 Lab File: VL041901.D
 Acq: 14 Jan 2025 20:40



Tgt Ion: 43 Resp: 30106

Ion	Ratio	Lower	Upper
43	100		
72	25.0	18.6	28.0





#35

Carbon Tetrachloride

Concen: 0.086 ppbv

RT: 3.761 min Scan# 11

Delta R.T. -0.016 min

Lab File: VL041901.D

Acq: 14 Jan 2025 20:40

Instrument :

MSVOA_L

ClientSampleId :

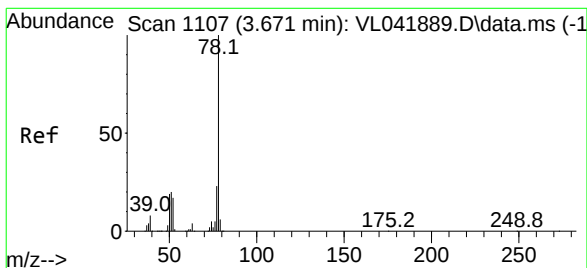
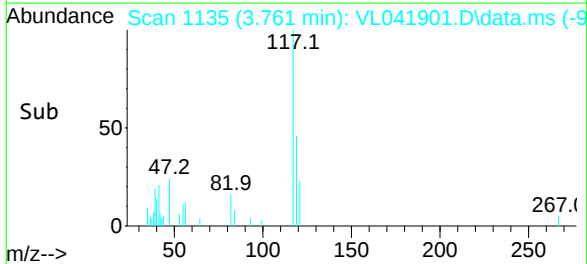
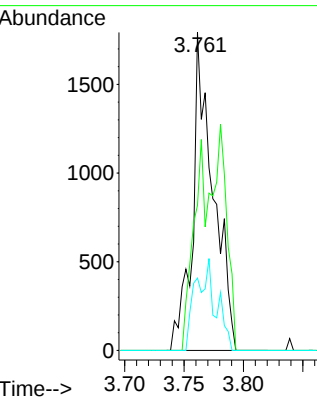
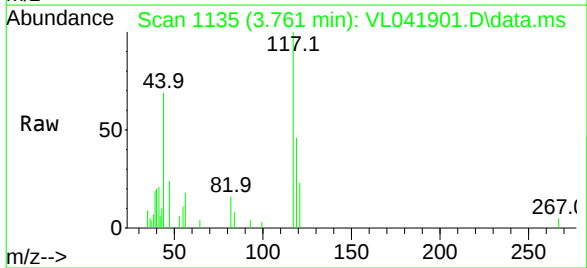
IA1

Tgt	Ion:117	Resp:	2161
Ion	Ratio	Lower	Upper
117	100		
119	45.6	76.9	115.3#
121	22.8	23.8	35.6#

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



#36

Benzene

Concen: 0.218 ppbv

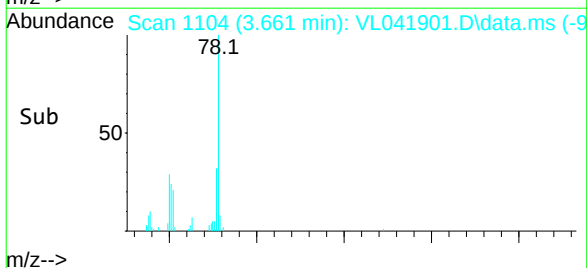
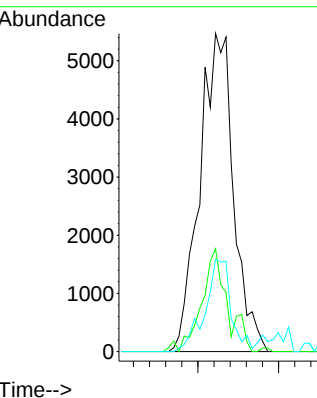
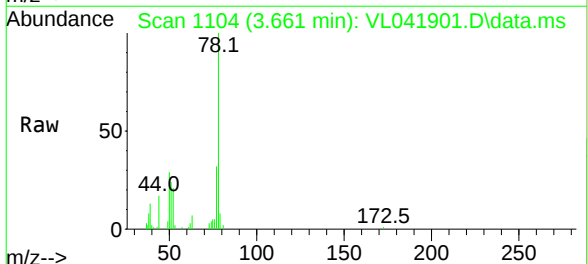
RT: 3.661 min Scan# 1104

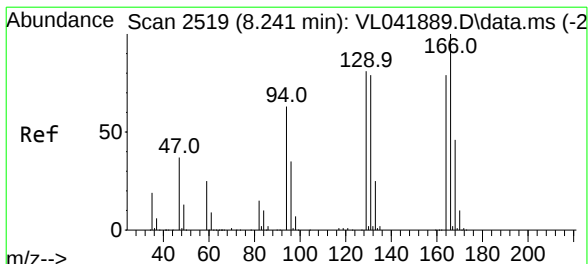
Delta R.T. -0.010 min

Lab File: VL041901.D

Acq: 14 Jan 2025 20:40

Tgt	Ion: 78	Resp:	7984
Ion	Ratio	Lower	Upper
78	100		
77	31.2	18.1	27.1#
50	29.1	15.2	22.8#





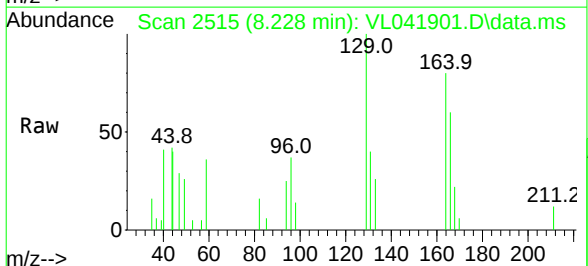
#52
Tetrachloroethene
Concen: 0.092 ppbv m
RT: 8.228 min Scan# 2515
Delta R.T. -0.013 min
Lab File: VL041901.D
Acq: 14 Jan 2025 20:40

Instrument :

MSVOA_L

ClientSampleId :

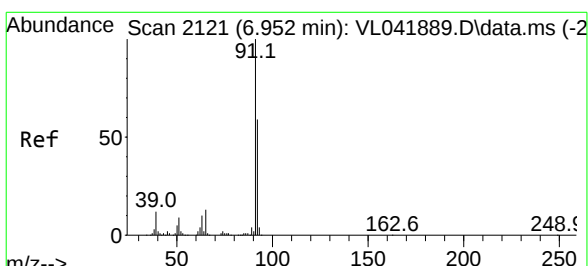
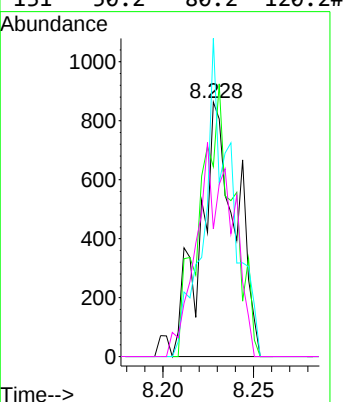
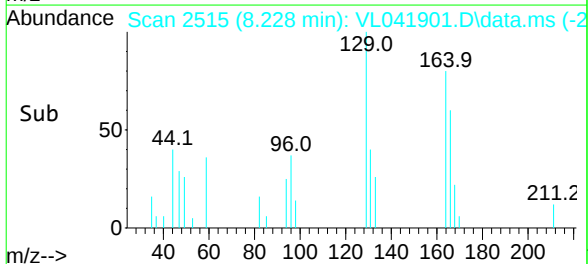
IA1



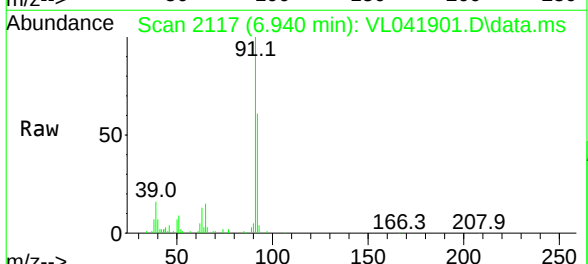
Tgt Ion	Ratio	Lower	Upper
164	100		
166	74.6	100.8	151.2#
129	125.0	82.0	123.0#
131	50.2	80.2	120.2#

Manual Integrations
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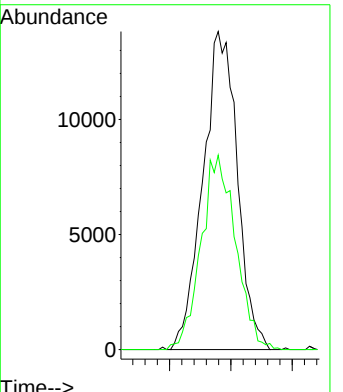
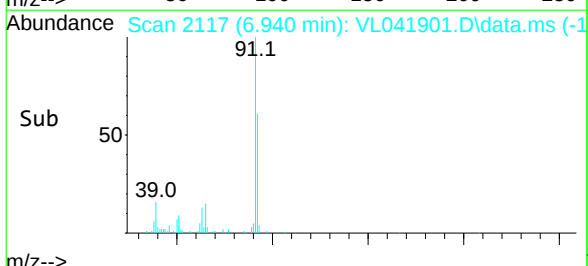
Reviewed By :Semsettin Yesilyurt 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

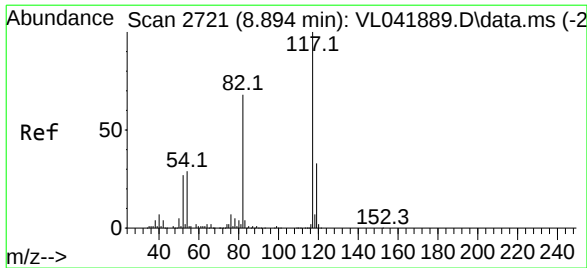


#53
Toluene
Concen: 0.677 ppbv
RT: 6.940 min Scan# 2117
Delta R.T. -0.013 min
Lab File: VL041901.D
Acq: 14 Jan 2025 20:40



Tgt Ion	Ratio	Lower	Upper
91	100		
92	61.4	47.4	71.0





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.885 min Scan# 27

Delta R.T. -0.010 min

Lab File: VL041901.D

Acq: 14 Jan 2025 20:40

Instrument :

MSVOA_L

ClientSampleId :

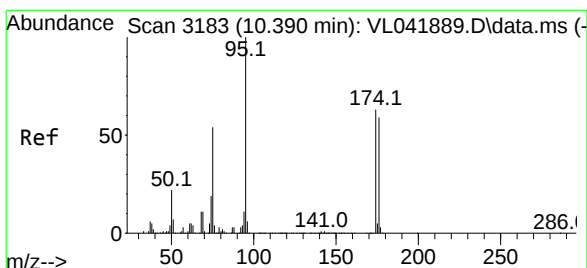
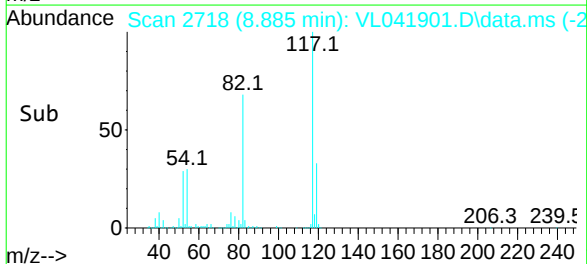
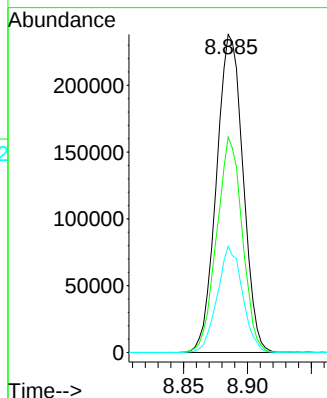
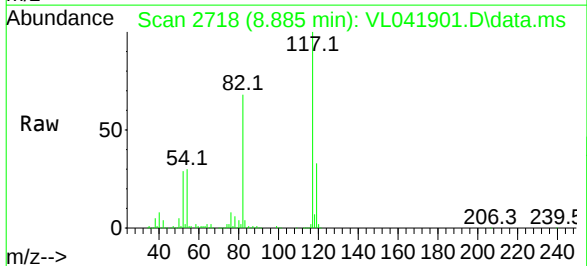
IA1

Tgt Ion:	117	Resp:	344203
Ion	Ratio	Lower	Upper
117	100		
82	65.4	54.2	81.4
119	31.7	25.0	37.6

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



#68

1-Bromo-4-Fluorobenzene

Concen: 10.013 ppbv

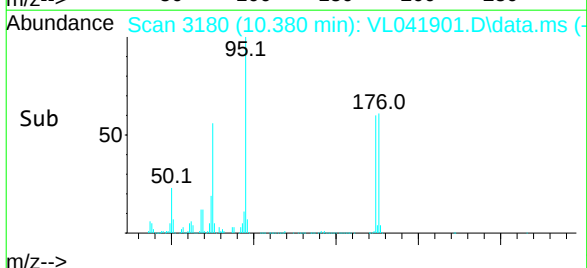
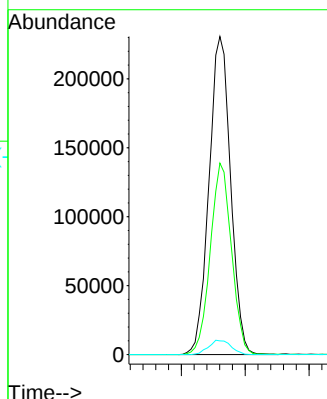
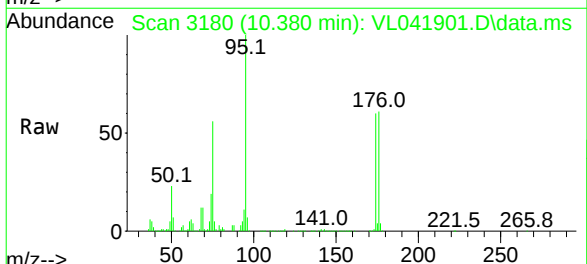
RT: 10.380 min Scan# 3180

Delta R.T. -0.010 min

Lab File: VL041901.D

Acq: 14 Jan 2025 20:40

Tgt Ion:	95	Resp:	271467
Ion	Ratio	Lower	Upper
95	100		
174	59.0	49.0	73.4
175	4.7	3.8	5.8



Report of Analysis

Client:	GFE LLC	Date Collected:	01/11/25
Project:	720 W. 181st NY, NY	Date Received:	01/13/25
Client Sample ID:	IA2	SDG No.:	Q1073
Lab Sample ID:	Q1073-05	Matrix:	Air
Analytical Method:	TO-15	Test:	VOCMS Group3
Sample Wt/Vol:	400	Units:	mL

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL041903.D	1		01/14/25 21:47	VL011425

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-01-4	Vinyl Chloride	0.010	0.030	U	0.030	0.080	ug/m3
75-35-4	1,1-Dichloroethene	0.14	0.56	U	0.56	1.98	ug/m3
156-59-2	cis-1,2-Dichloroethene	0.090	0.36	U	0.36	1.98	ug/m3
71-55-6	1,1,1-Trichloroethane	0.010	0.050	U	0.050	0.16	ug/m3
79-01-6	Trichloroethene	0.020	0.11	U	0.11	0.16	ug/m3
127-18-4	Tetrachloroethene	0.69	4.68		0.14	0.20	ug/m3
SURROGATES							
460-00-4	1-Bromo-4-Fluorobenzene	10.3			65 - 135	103%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	134000		2.793			
540-36-3	1,4-Difluorobenzene	393000		3.968			
3114-55-4	Chlorobenzene-d5	335000		8.888			

U = Not Detected

RL = Reporting Limit

MDL = Method Detection Limit

E = Value Exceeds Calibration Range

D = Dilution

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

Q = indicates LCS control criteria did not meet requirements

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
 Data File : VL041903.D
 Acq On : 14 Jan 2025 21:47
 Operator : SY/MD
 Sample : Q1073-05
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA2

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 01/15/2025
 Supervised By :Mahesh Dadoda 01/15/2025

Quant Time: Jan 15 03:28:06 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2

QLast Update : Tue Jan 14 23:15:42 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.793	49	134154	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.968	114	393472	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.888	117	335047	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.383	95	271840	10.301	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.000%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.499	85	7195	0.394	ppbv	96
4) Chloromethane	1.534	50	3634	0.529	ppbv	96
9) Propene	1.489	41	6475m	0.821	ppbv	
10) Heptane	4.991	43	132549	6.288	ppbv	98
11) Trichlorofluoromethane	1.881	101	5859	0.308	ppbv	90
13) Ethanol	1.725	45	95241	164.886	ppbv	87
15) Acetone	1.839	43	213102	13.226	ppbv	99
19) Isopropyl Alcohol	1.890	45	41786	4.374	ppbv #	1
20) Methylene Chloride	2.068	84	3794	0.596	ppbv #	78
26) Hexane	2.832	57	254475	14.808	ppbv #	35
29) Chloroform	2.855	83	21538	0.793	ppbv	95
30) Cyclohexane	3.865	84	31823	2.135	ppbv	98
34) 2-Butanone	2.560	43	414763	16.575	ppbv	99
35) Carbon Tetrachloride	3.774	117	1820	0.074	ppbv #	64
36) Benzene	3.664	78	9360	0.259	ppbv #	93
52) Tetrachloroethene	8.231	164	8591	0.687	ppbv	92
53) Toluene	6.943	91	897997	22.844	ppbv	100
59) m/p-Xylene	9.539	91	6968m	0.166	ppbv	
74) 1,2,4-Trimethylbenzene	11.542	105	6823	0.143	ppbv #	60

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

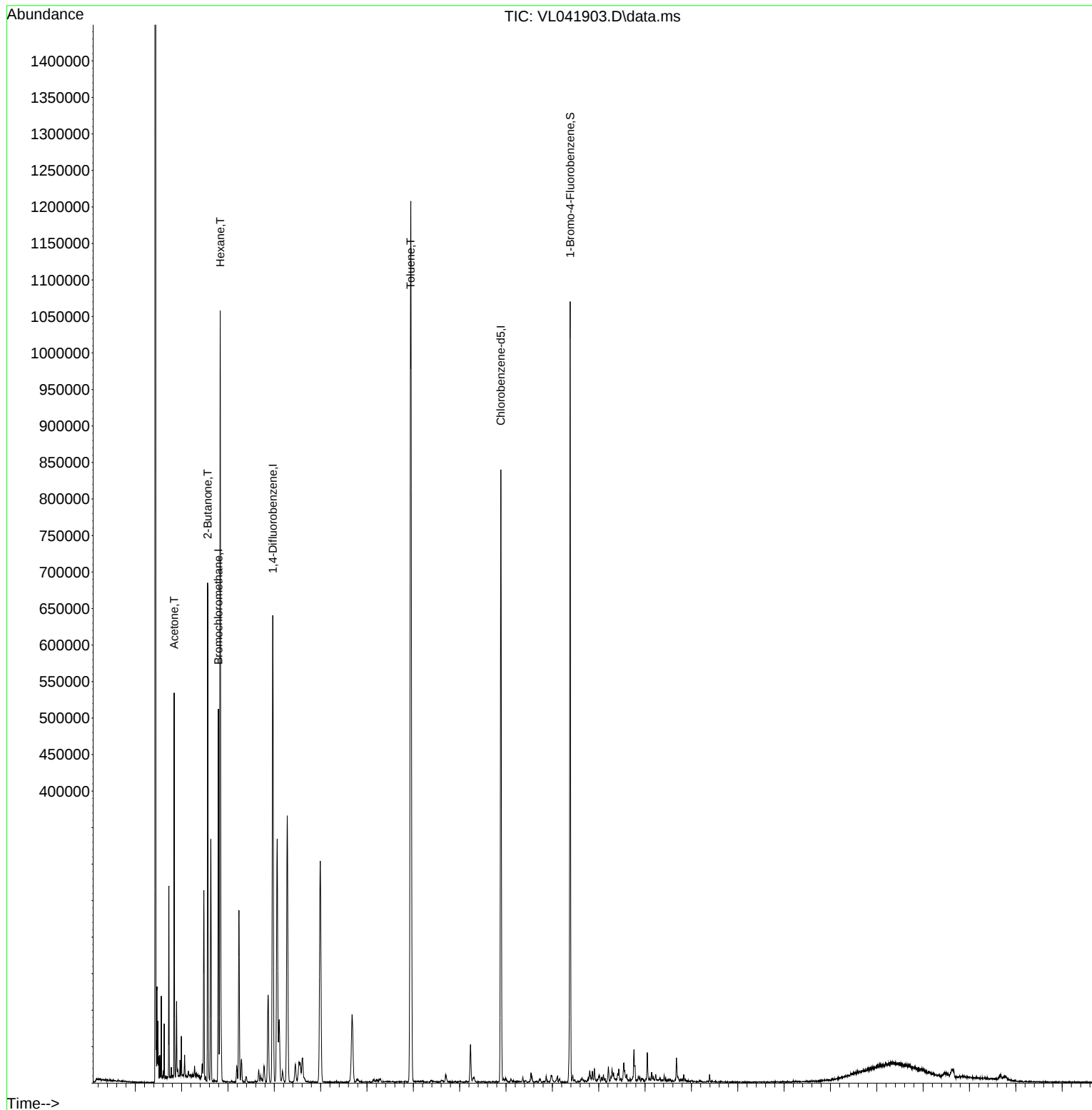
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
Data File : VL041903.D
Acq On : 14 Jan 2025 21:47
Operator : SY/MD
Sample : Q1073-05
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

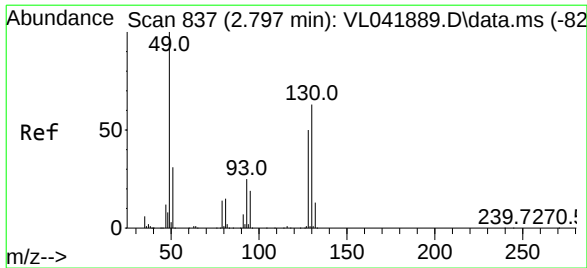
Instrument :
MSVOA_L
ClientSampleId :
IA2

Quant Time: Jan 15 03:28:06 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Tue Jan 14 23:15:42 2025
Response via : Initial Calibration

Manual Integrations
APPROVED

Reviewed By : Semsettin Yesilyurt 01/15/2025
Supervised By : Mahesh Dadoda 01/15/2025





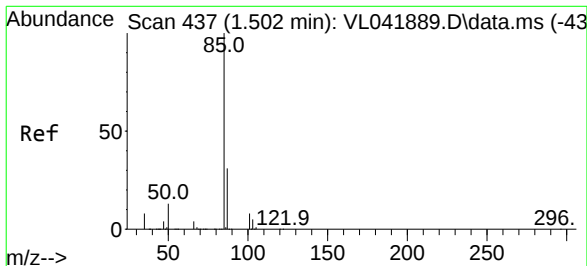
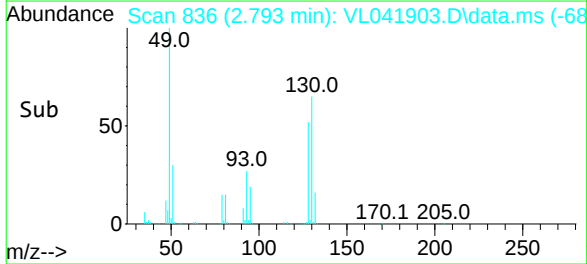
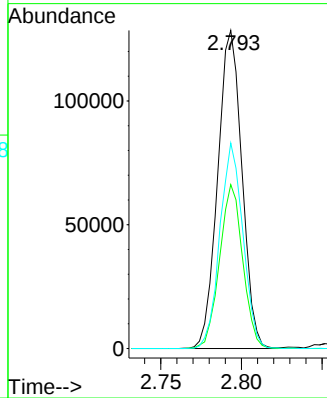
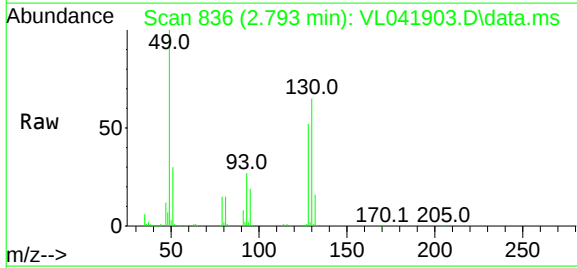
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.793 min Scan# 837
Delta R.T. -0.004 min
Lab File: VL041903.D
Acq: 14 Jan 2025 21:47

Instrument :
MSVOA_L
ClientSampleId :
IA2

Tgt Ion: 49 Resp: 134154
Ion Ratio Lower Upper
49 100
128 49.1 24.3 73.0
130 61.6 31.1 93.2

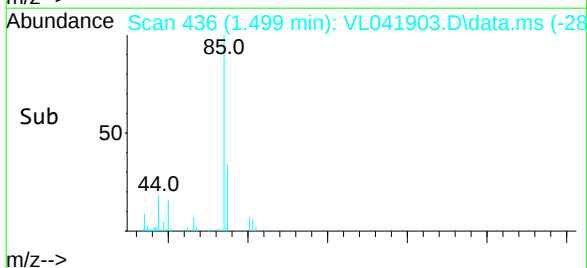
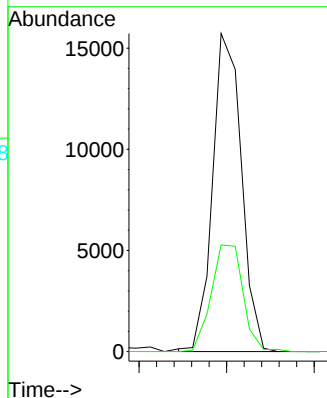
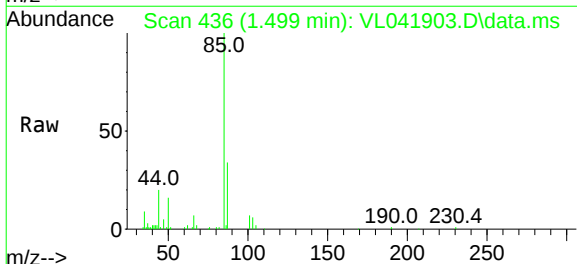
Manual Integrations
APPROVED

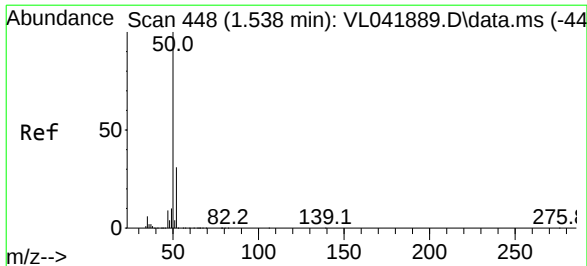
Reviewed By :Semsettin Yesilyurt 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



#2
Dichlorodifluoromethane
Concen: 0.394 ppbv
RT: 1.499 min Scan# 436
Delta R.T. -0.003 min
Lab File: VL041903.D
Acq: 14 Jan 2025 21:47

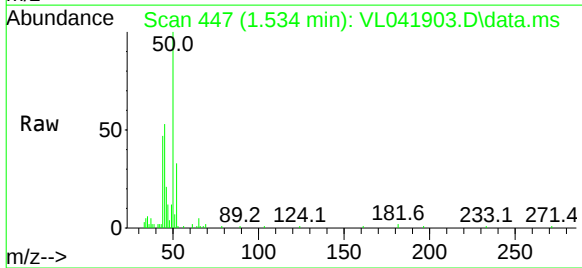
Tgt Ion: 85 Resp: 7195
Ion Ratio Lower Upper
85 100
87 33.5 24.9 37.3





#4
Chloromethane
Concen: 0.529 ppbv
RT: 1.534 min Scan# 44
Delta R.T. -0.003 min
Lab File: VL041903.D
Acq: 14 Jan 2025 21:47

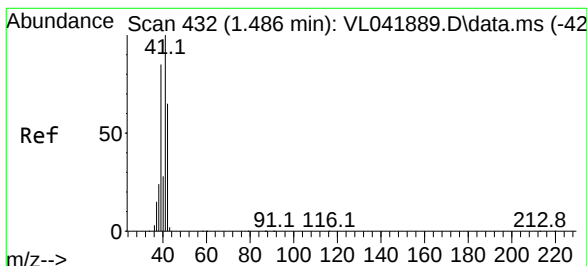
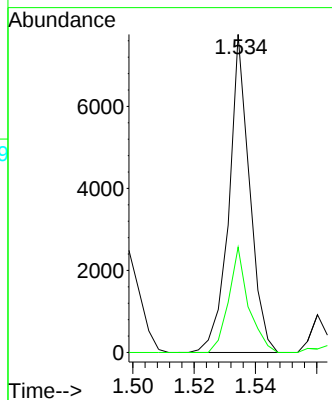
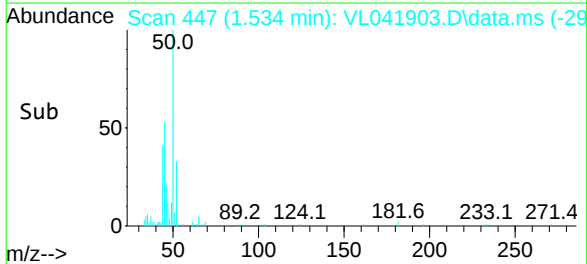
Instrument :
MSVOA_L
ClientSampleId :
IA2



Tgt Ion: 50 Resp: 3634
Ion Ratio Lower Upper
50 100
52 33.1 24.6 36.8

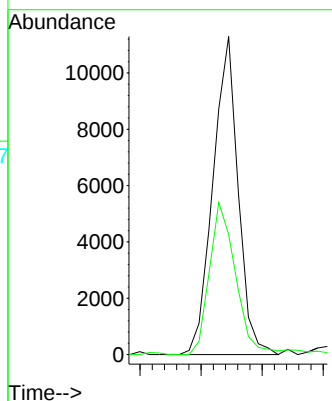
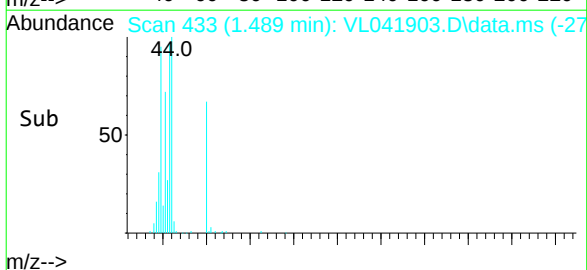
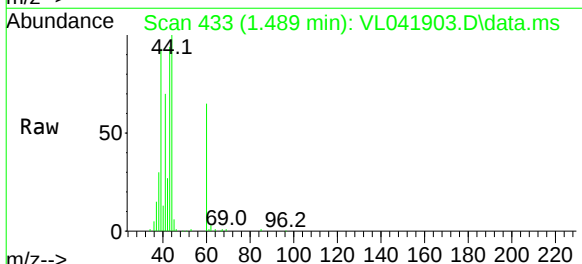
Manual Integrations
APPROVED

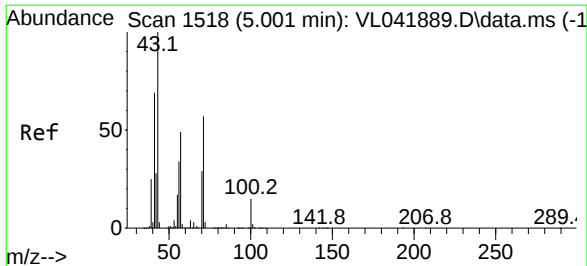
Reviewed By :Semsettin Yesilyurt 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



#9
Propene
Concen: 0.821 ppbv m
RT: 1.489 min Scan# 433
Delta R.T. 0.003 min
Lab File: VL041903.D
Acq: 14 Jan 2025 21:47

Tgt Ion: 41 Resp: 6475
Ion Ratio Lower Upper
41 100
42 65.3 52.0 78.0





#10

Heptane

Concen: 6.288 ppbv

RT: 4.991 min Scan# 1518

Delta R.T. -0.010 min

Lab File: VL041903.D

Acq: 14 Jan 2025 21:47

Instrument :

MSVOA_L

ClientSampleId :

IA2

Tgt Ion: 43 Resp: 132549

Ion Ratio Lower Upper

43 100

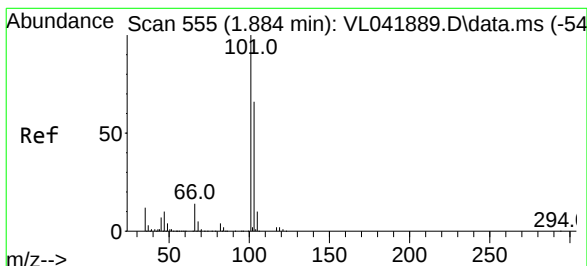
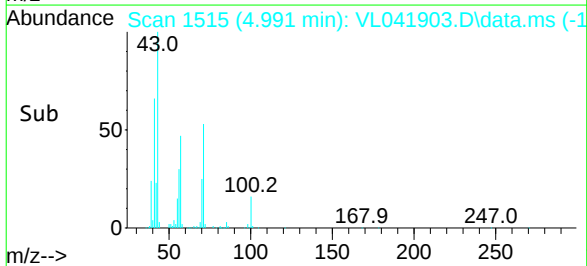
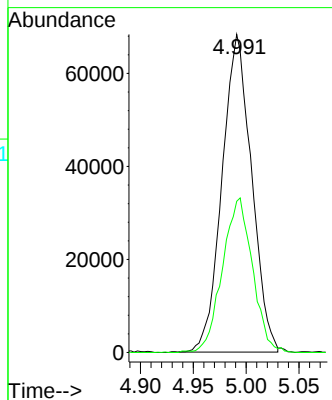
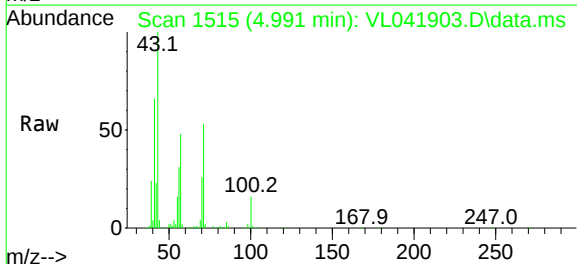
57 49.6 41.0 61.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#11

Trichlorofluoromethane

Concen: 0.308 ppbv

RT: 1.881 min Scan# 554

Delta R.T. -0.003 min

Lab File: VL041903.D

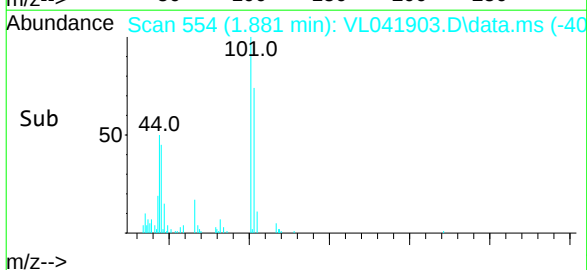
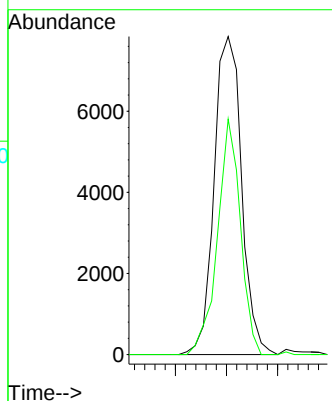
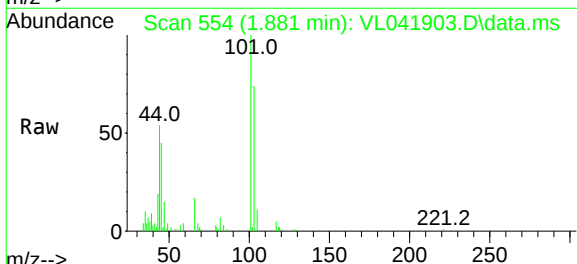
Acq: 14 Jan 2025 21:47

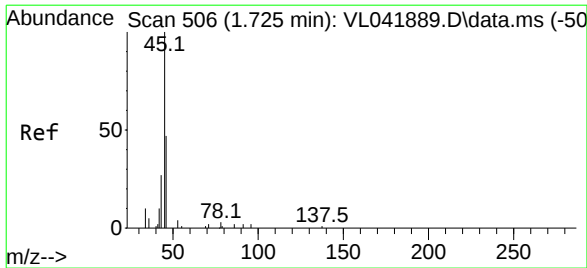
Tgt Ion:101 Resp: 5859

Ion Ratio Lower Upper

101 100

103 74.0 53.1 79.7





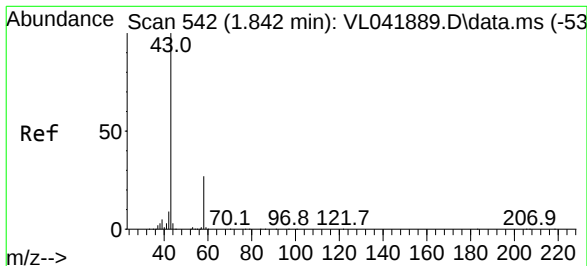
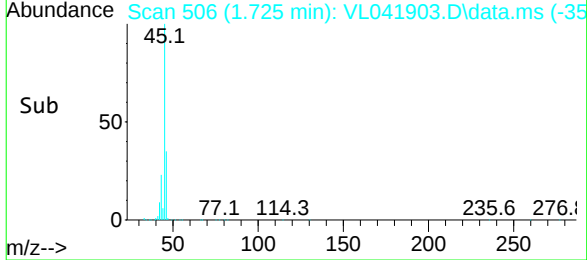
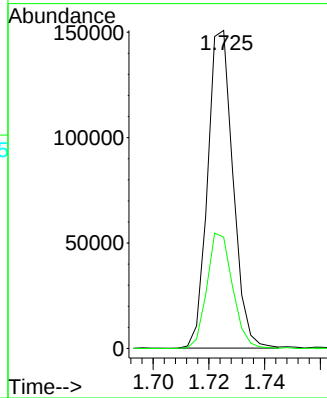
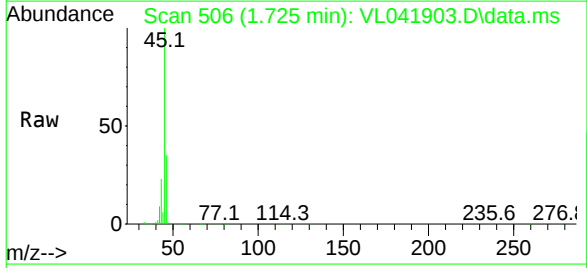
#13
Ethanol
Concen: 164.886 ppbv
RT: 1.725 min Scan# 506
Delta R.T. -0.000 min
Lab File: VL041903.D
Acq: 14 Jan 2025 21:47

Instrument :
MSVOA_L
ClientSampleId :
IA2

Tgt Ion: 45 Resp: 95241
Ion Ratio Lower Upper
45 100
46 36.9 18.1 72.5

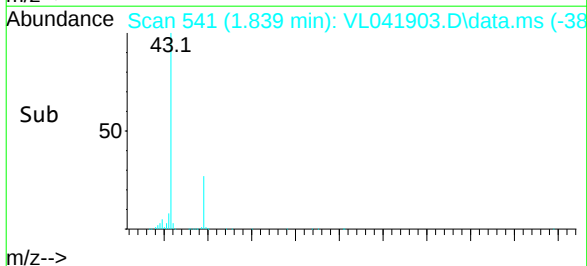
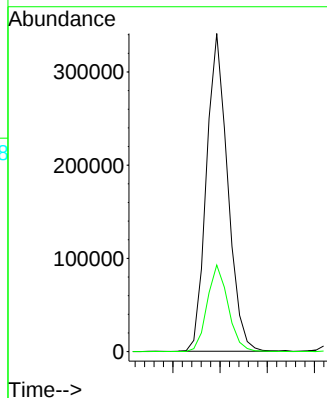
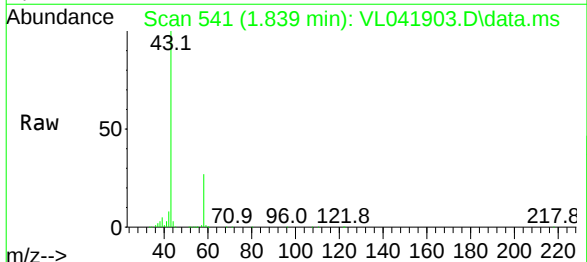
Manual Integrations
APPROVED

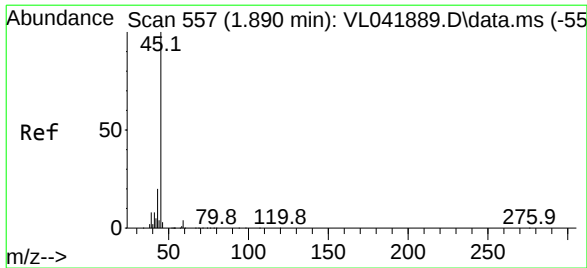
Reviewed By :Semsettin Yesilyurt 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



#15
Acetone
Concen: 13.226 ppbv
RT: 1.839 min Scan# 541
Delta R.T. -0.003 min
Lab File: VL041903.D
Acq: 14 Jan 2025 21:47

Tgt Ion: 43 Resp: 213102
Ion Ratio Lower Upper
43 100
58 26.9 21.9 32.9





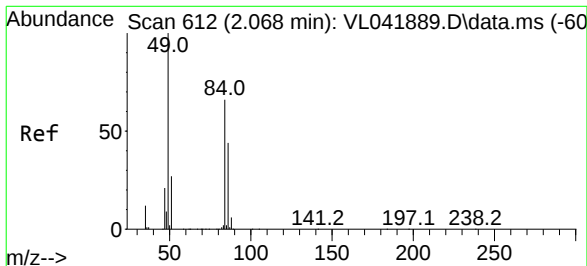
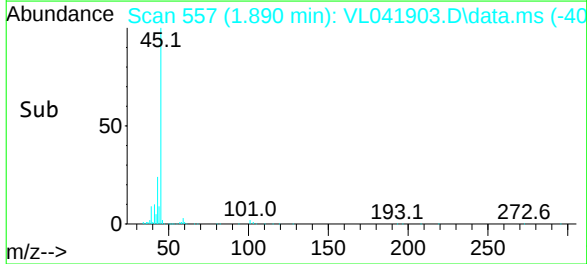
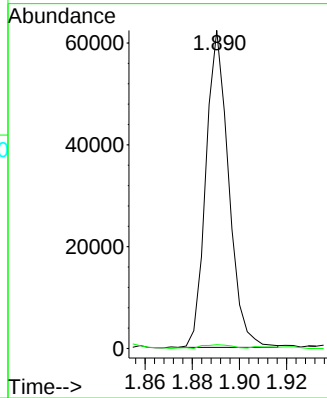
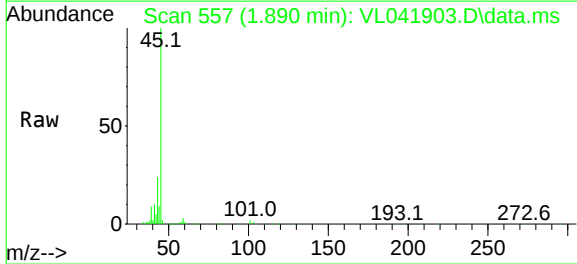
#19
Isopropyl Alcohol
Concen: 4.374 ppbv
RT: 1.890 min Scan# 557
Delta R.T. -0.000 min
Lab File: VL041903.D
Acq: 14 Jan 2025 21:47

Instrument : MSVOA_L
ClientSampleId : IA2

Tgt Ion: 45 Resp: 41786
Ion Ratio Lower Upper
45 100
58 137.1 35.0 52.6#

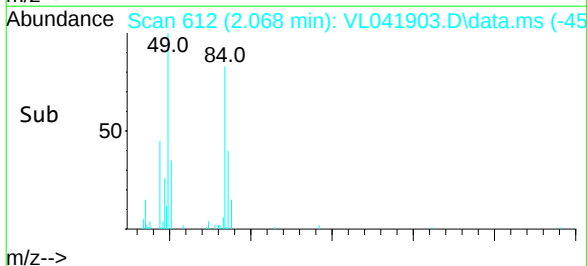
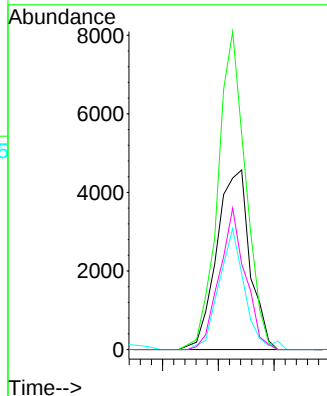
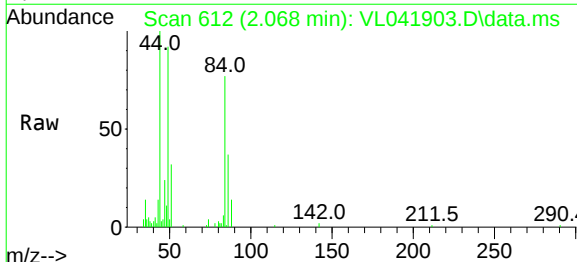
Manual Integrations
APPROVED

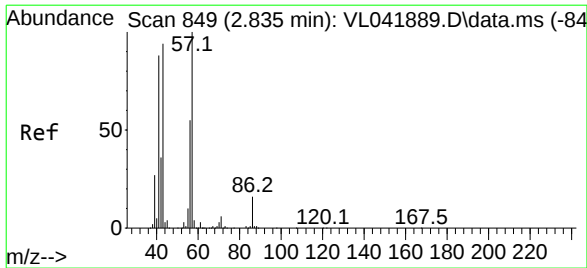
Reviewed By :Semsettin Yesilyurt 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



#20
Methylene Chloride
Concen: 0.596 ppbv
RT: 2.068 min Scan# 612
Delta R.T. -0.000 min
Lab File: VL041903.D
Acq: 14 Jan 2025 21:47

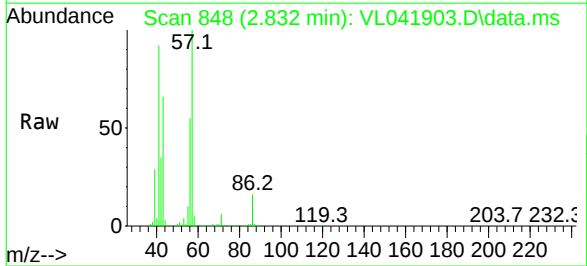
Tgt Ion: 84 Resp: 3794
Ion Ratio Lower Upper
84 100
49 120.2 123.1 184.7#
51 42.3 35.8 53.8
86 47.7 53.7 80.5#





#26
Hexane
Concen: 14.808 ppbv
RT: 2.832 min Scan# 849
Delta R.T. -0.003 min
Lab File: VL041903.D
Acq: 14 Jan 2025 21:47

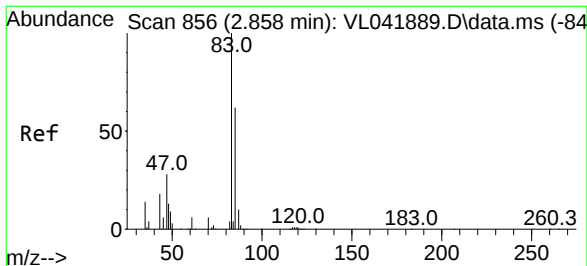
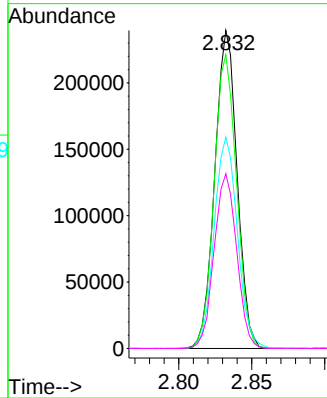
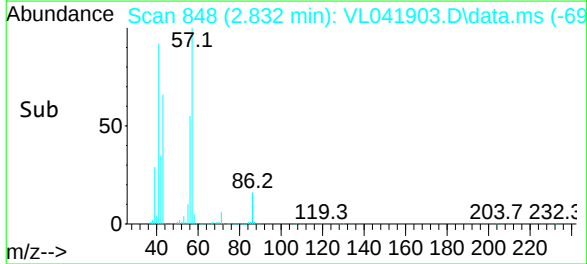
Instrument : MSVOA_L
ClientSampleId : IA2



Tgt Ion: 57 Resp: 254475
Ion Ratio Lower Upper
57 100
41 93.3 73.8 110.8
43 69.7 197.3 295.9#
56 55.6 42.7 64.1

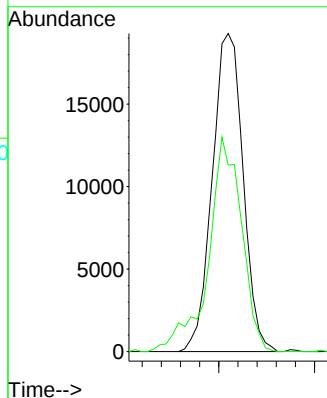
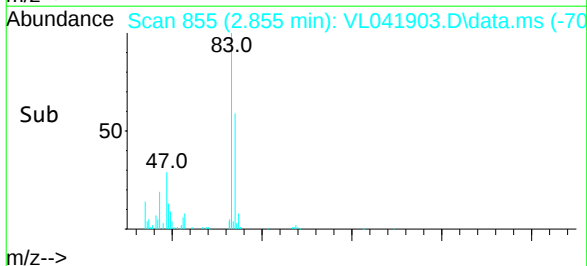
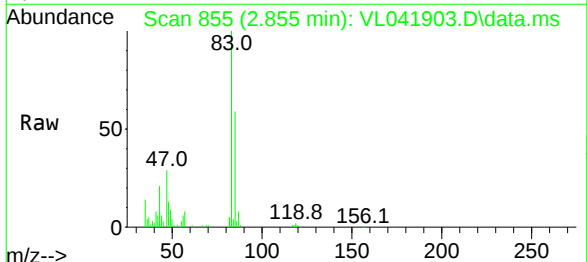
Manual Integrations
APPROVED

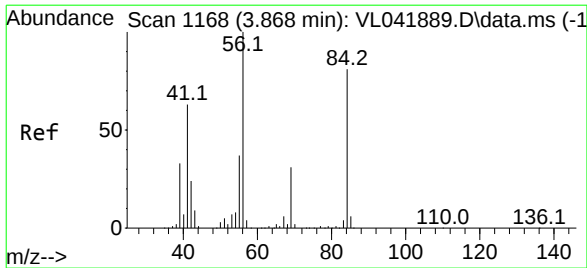
Reviewed By :Semsettin Yesilyurt 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



#29
Chloroform
Concen: 0.793 ppbv
RT: 2.855 min Scan# 855
Delta R.T. -0.003 min
Lab File: VL041903.D
Acq: 14 Jan 2025 21:47

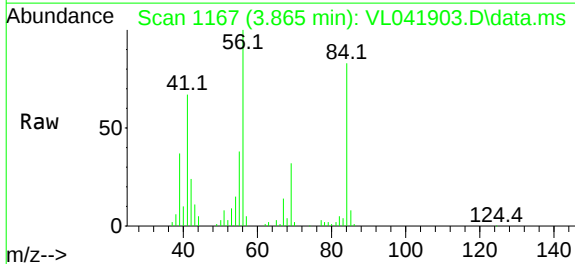
Tgt Ion: 83 Resp: 21538
Ion Ratio Lower Upper
83 100
85 58.7 50.1 75.1





#30
Cyclohexane
Concen: 2.135 ppbv
RT: 3.865 min Scan# 1167
Delta R.T. -0.003 min
Lab File: VL041903.D
Acq: 14 Jan 2025 21:47

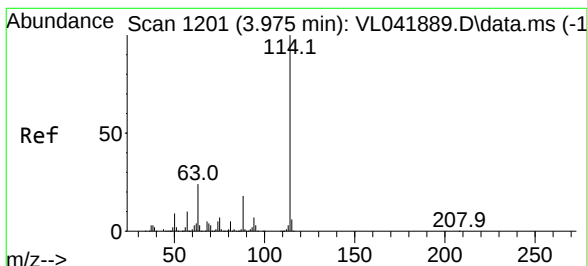
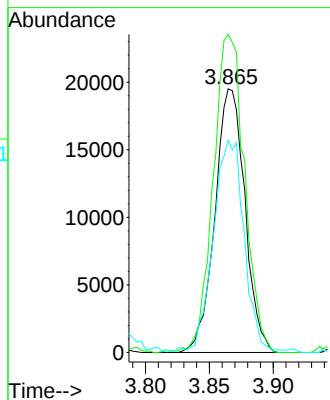
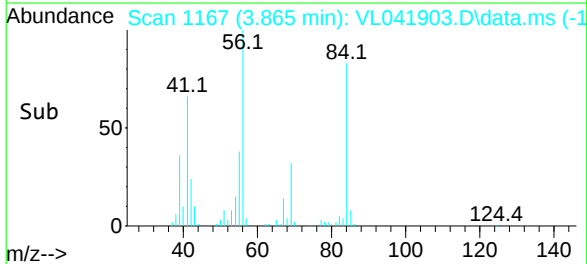
Instrument :
MSVOA_L
ClientSampleId :
IA2



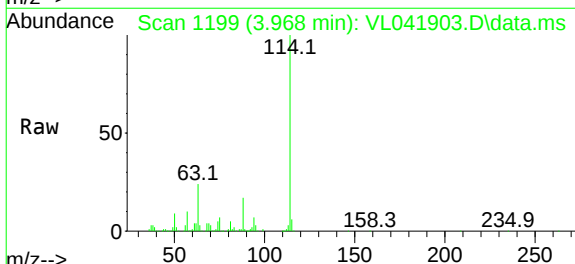
Tgt Ion: 84 Resp: 31823
Ion Ratio Lower Upper
84 100
56 126.0 99.3 148.9
41 83.4 64.3 96.5

Manual Integrations
APPROVED

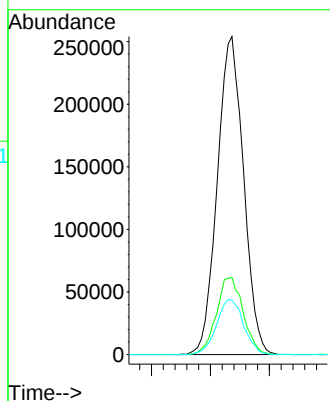
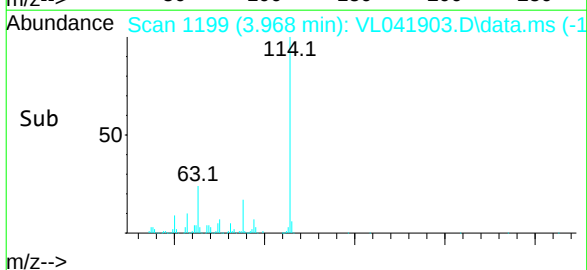
Reviewed By :Semsettin Yesilyurt 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

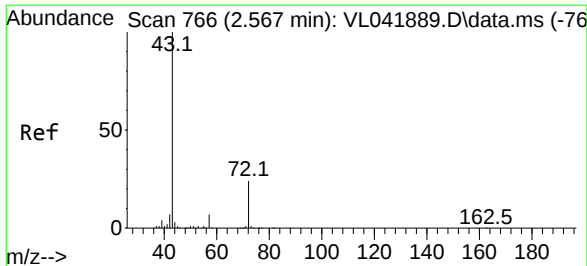


#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.968 min Scan# 1199
Delta R.T. -0.006 min
Lab File: VL041903.D
Acq: 14 Jan 2025 21:47



Tgt Ion:114 Resp: 393472
Ion Ratio Lower Upper
114 100
63 24.7 19.8 29.6
88 17.8 14.4 21.6





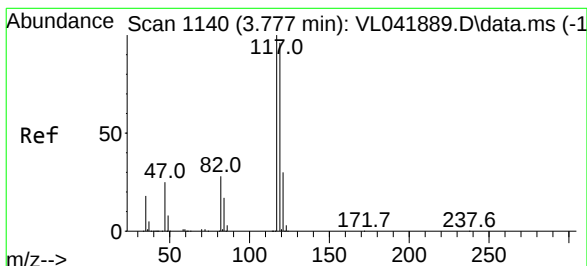
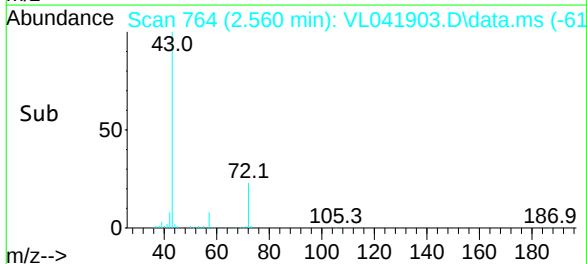
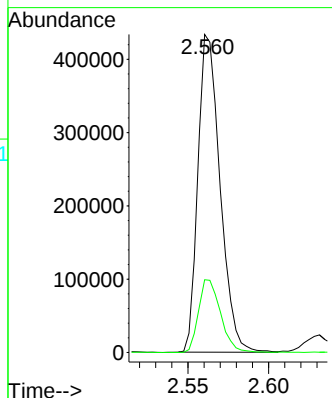
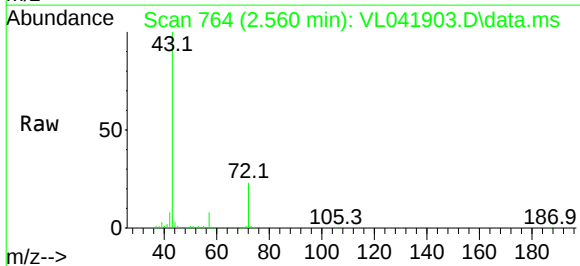
#34
2-Butanone
Concen: 16.575 ppbv
RT: 2.560 min Scan# 766
Delta R.T. -0.006 min
Lab File: VL041903.D
Acq: 14 Jan 2025 21:47

Instrument :
MSVOA_L
ClientSampleId :
IA2

Tgt Ion: 43 Resp: 414763
Ion Ratio Lower Upper
43 100
72 23.0 18.6 28.0

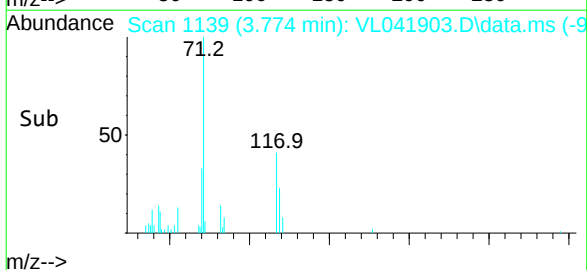
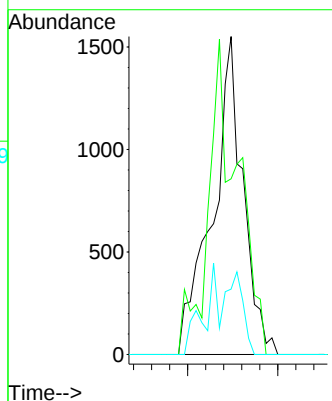
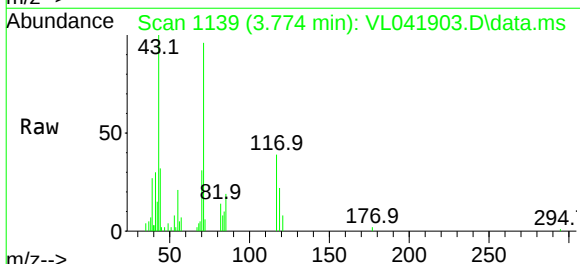
Manual Integrations
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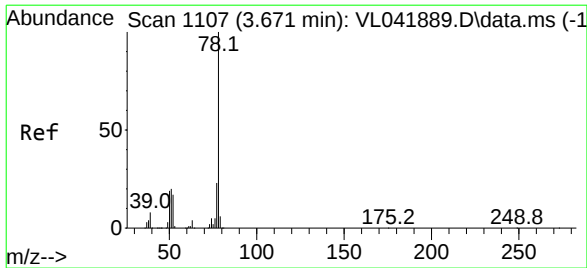
Reviewed By :Semsettin Yesilyurt 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



#35
Carbon Tetrachloride
Concen: 0.074 ppbv
RT: 3.774 min Scan# 1139
Delta R.T. -0.003 min
Lab File: VL041903.D
Acq: 14 Jan 2025 21:47

Tgt Ion:117 Resp: 1820
Ion Ratio Lower Upper
117 100
119 55.3 76.9 115.3#
121 20.6 23.8 35.6#





#36

Benzene

Concen: 0.259 ppbv

RT: 3.664 min Scan# 1107

Delta R.T. -0.006 min

Lab File: VL041903.D

Acq: 14 Jan 2025 21:47

Instrument :

MSVOA_L

ClientSampleId :

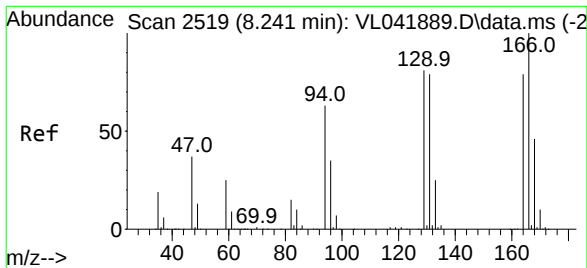
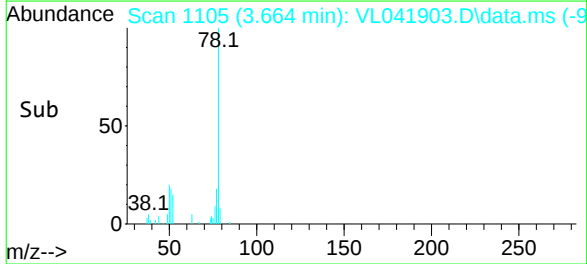
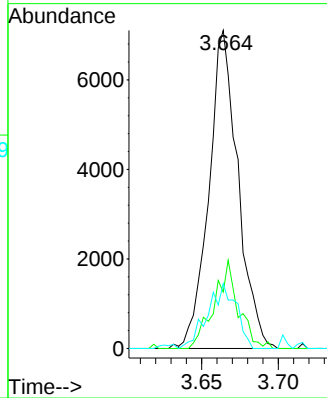
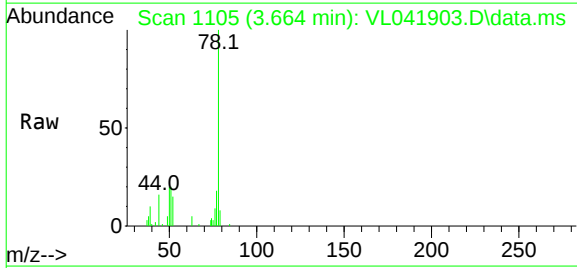
IA2

Tgt Ion: 78	Resp: 9360
Ion Ratio	Lower Upper
78	100
77	17.8 18.1 27.1
50	20.4 15.2 22.8

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



#52

Tetrachloroethene

Concen: 0.687 ppbv

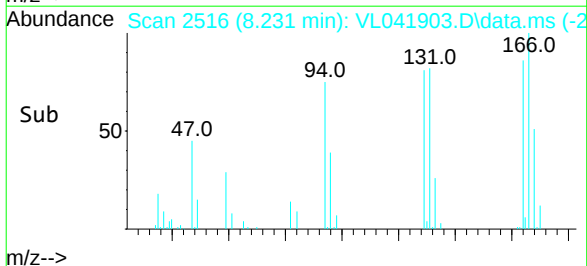
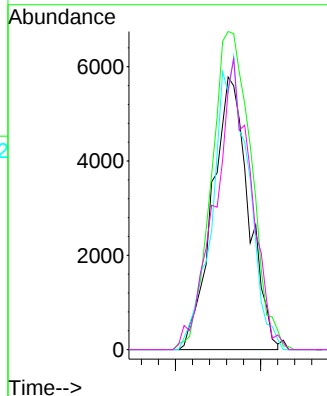
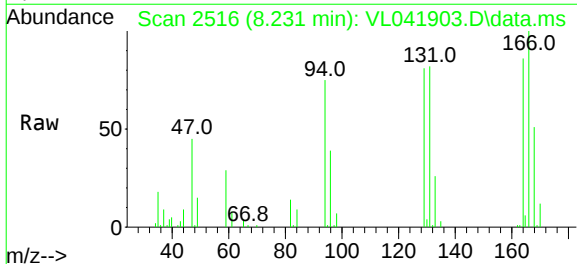
RT: 8.231 min Scan# 2516

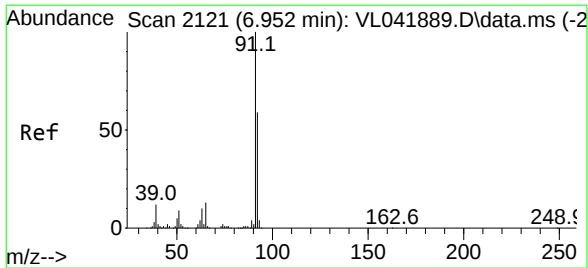
Delta R.T. -0.010 min

Lab File: VL041903.D

Acq: 14 Jan 2025 21:47

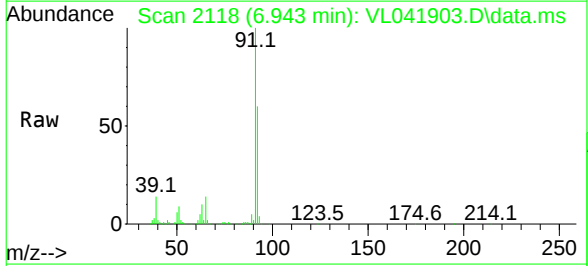
Tgt Ion: 164	Resp: 8591
Ion Ratio	Lower Upper
164	100
166	114.4 100.8 151.2
129	94.3 82.0 123.0
131	93.6 80.2 120.2





#53
Toluene
Concen: 22.844 ppbv
RT: 6.943 min Scan# 2118
Delta R.T. -0.010 min
Lab File: VL041903.D
Acq: 14 Jan 2025 21:47

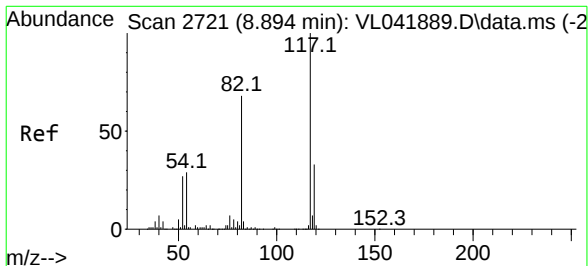
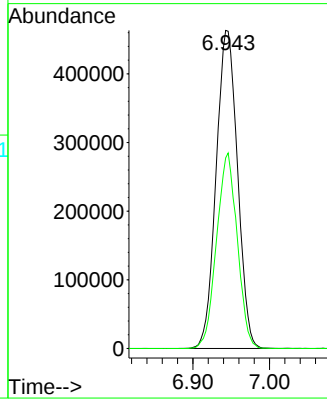
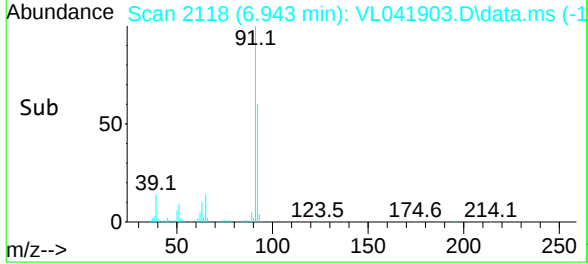
Instrument : MSVOA_L
ClientSampleId : IA2



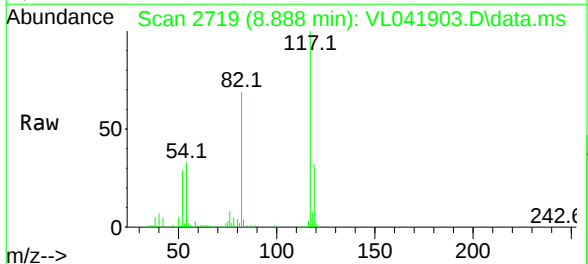
Tgt Ion: 91 Resp: 897997
Ion Ratio Lower Upper
91 100
92 59.4 47.4 71.0

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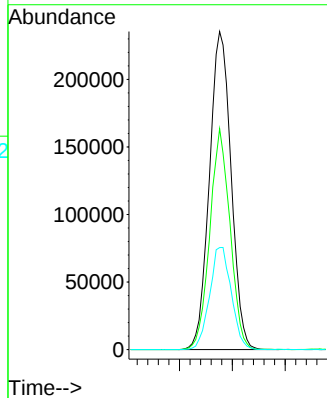
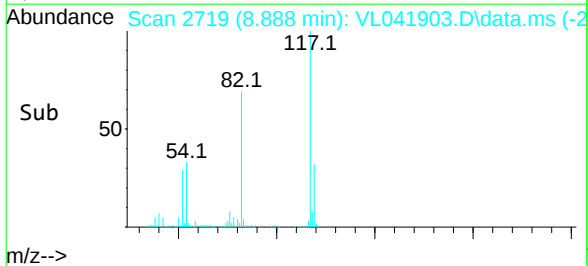
Reviewed By :Semsettin Yesilyurt 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

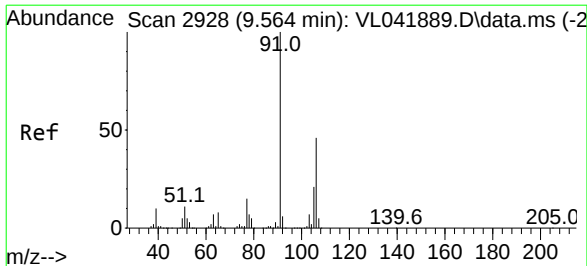


#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.888 min Scan# 2719
Delta R.T. -0.006 min
Lab File: VL041903.D
Acq: 14 Jan 2025 21:47



Tgt Ion:117 Resp: 335047
Ion Ratio Lower Upper
117 100
82 64.8 54.2 81.4
119 32.2 25.0 37.6





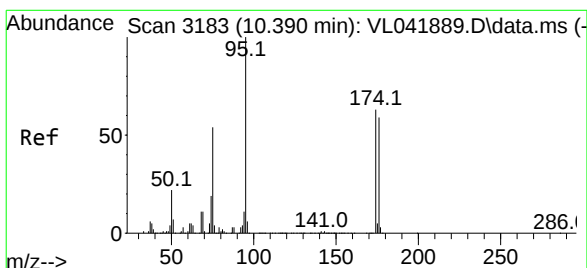
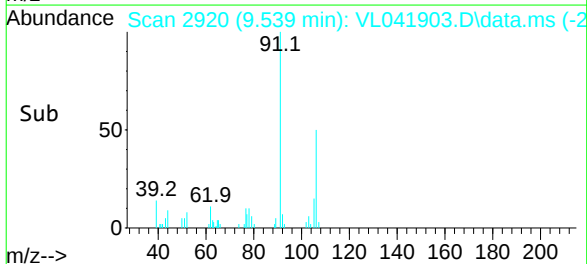
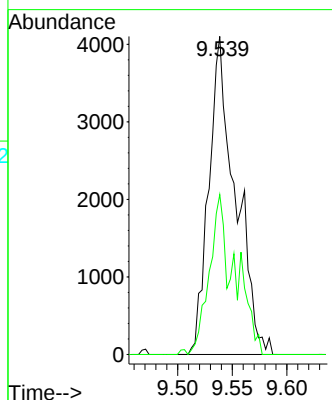
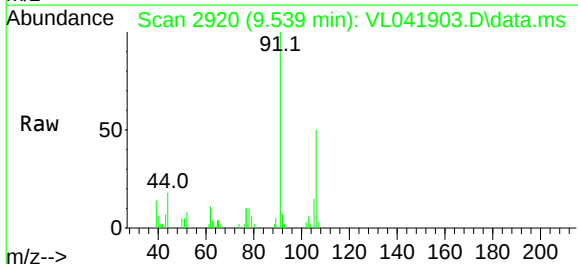
#59
m/p-Xylene
Concen: 0.166 ppbv m
RT: 9.539 min Scan# 2928
Delta R.T. -0.026 min
Lab File: VL041903.D
Acq: 14 Jan 2025 21:47

Instrument :
MSVOA_L
ClientSampleId :
IA2

Tgt Ion: 91 Resp: 6968
Ion Ratio Lower Upper
91 100
106 0.0 36.0 54.0#

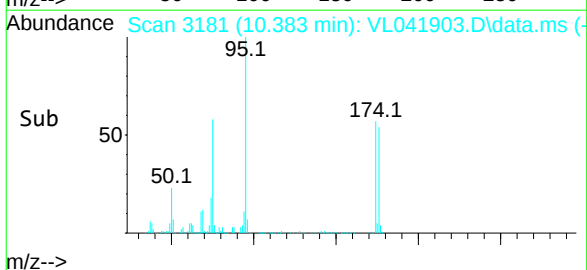
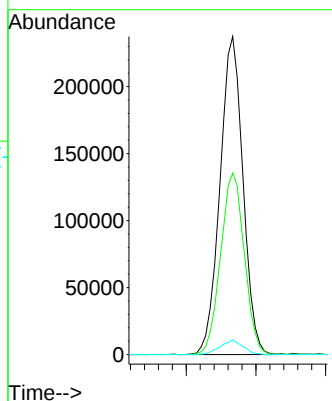
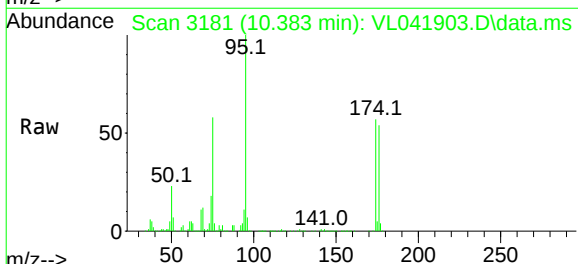
Manual Integrations
APPROVED

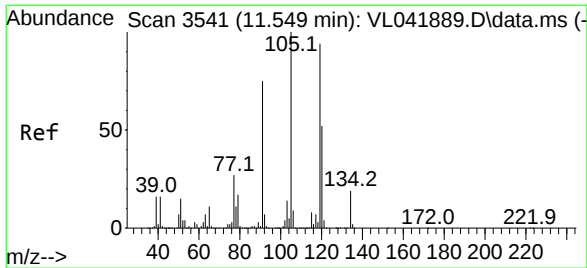
Reviewed By :Semsettin Yesilyurt 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



#68
1-Bromo-4-Fluorobenzene
Concen: 10.301 ppbv
RT: 10.383 min Scan# 3181
Delta R.T. -0.006 min
Lab File: VL041903.D
Acq: 14 Jan 2025 21:47

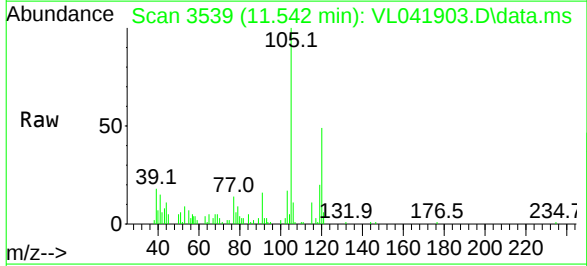
Tgt Ion: 95 Resp: 271840
Ion Ratio Lower Upper
95 100
174 59.0 49.0 73.4
175 4.6 3.8 5.8





#74
 1,2,4-Trimethylbenzene
 Concen: 0.143 ppbv
 RT: 11.542 min Scan# 35
 Delta R.T. -0.006 min
 Lab File: VL041903.D
 Acq: 14 Jan 2025 21:47

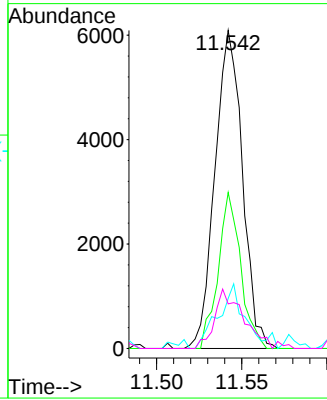
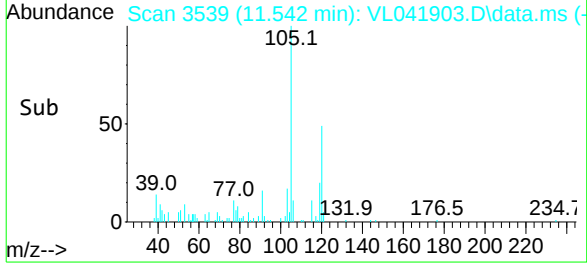
Instrument :
 MSVOA_L
 ClientSampleId :
 IA2



Tgt Ion:	105	Resp:	6823
Ion Ratio	Lower	Upper	
105	100		
120	49.1	41.4	62.2
91	15.7	60.2	90.2#
77	14.0	22.0	33.0#

Manual Integrations
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Reviewed By :Semsettin Yesilyurt 01/15/2025
 Supervised By :Mahesh Dadoda 01/15/2025



Report of Analysis

Client:	GFE LLC	Date Collected:	01/11/25
Project:	720 W. 181st NY, NY	Date Received:	01/13/25
Client Sample ID:	IA3	SDG No.:	Q1073
Lab Sample ID:	Q1073-06	Matrix:	Air
Analytical Method:	TO-15	Test:	VOCMS Group3
Sample Wt/Vol:	400	Units:	mL

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL041904.D	1		01/14/25 22:21	VL011425

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-01-4	Vinyl Chloride	0.010	0.030	U	0.030	0.080	ug/m3
75-35-4	1,1-Dichloroethene	0.14	0.56	U	0.56	1.98	ug/m3
156-59-2	cis-1,2-Dichloroethene	0.090	0.36	U	0.36	1.98	ug/m3
71-55-6	1,1,1-Trichloroethane	0.010	0.050	U	0.050	0.16	ug/m3
79-01-6	Trichloroethene	0.020	0.11	U	0.11	0.16	ug/m3
127-18-4	Tetrachloroethene	0.14	0.95		0.14	0.20	ug/m3
SURROGATES							
460-00-4	1-Bromo-4-Fluorobenzene	10.0			65 - 135	100%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	138000			2.793		
540-36-3	1,4-Difluorobenzene	399000			3.965		
3114-55-4	Chlorobenzene-d5	345000			8.888		

U = Not Detected

RL = Reporting Limit

MDL = Method Detection Limit

E = Value Exceeds Calibration Range

D = Dilution

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

Q = indicates LCS control criteria did not meet requirements

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
 Data File : VL041904.D
 Acq On : 14 Jan 2025 22:21
 Operator : SY/MD
 Sample : Q1073-06
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA3

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 01/15/2025
 Supervised By :Mahesh Dadoda 01/15/2025

Quant Time: Jan 15 03:28:42 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2
 QLast Update : Tue Jan 14 23:15:42 2025
 Response via : Initial Calibration

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

Internal Standards							
1) Bromochloromethane		2.793	49	138247	10.000	ppbv	0.00
33) 1,4-Difluorobenzene		3.965	114	398753	10.000	ppbv	0.00
55) Chlorobenzene-d5		8.888	117	345260	10.000	ppbv	0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene		10.383	95	273151	10.045	ppbv	0.00
Spiked Amount		10.000	Range	65 - 135	Recovery	= 100.400%	
Target Compounds							Qvalue
2) Dichlorodifluoromethane		1.502	85	6958	0.370	ppbv	92
4) Chloromethane		1.534	50	3674	0.519	ppbv	100
9) Propene		1.489	41	6595m	0.812	ppbv	
10) Heptane		4.998	43	46281m	2.131	ppbv	
11) Trichlorofluoromethane		1.881	101	5036	0.257	ppbv	93
13) Ethanol		1.725	45	60176	101.095	ppbv	91
15) Acetone		1.839	43	281485	16.952	ppbv	94
19) Isopropyl Alcohol		1.890	45	39461	4.008	ppbv #	1
20) Methylene Chloride		2.065	84	2919	0.445	ppbv	95
26) Hexane		2.832	57	104107	5.879	ppbv #	35
29) Chloroform		2.858	83	8588	0.307	ppbv #	76
30) Cyclohexane		3.862	84	7006m	0.456	ppbv	
34) 2-Butanone		2.560	43	921004	36.319	ppbv	100
35) Carbon Tetrachloride		3.777	117	1702m	0.068	ppbv	
36) Benzene		3.664	78	11748	0.321	ppbv #	92
51) 2-Hexanone		7.457	43	20588	0.774	ppbv #	100
52) Tetrachloroethene		8.231	164	1714m	0.135	ppbv	
53) Toluene		6.946	91	255572	6.415	ppbv	99
59) m/p-Xylene		9.542	91	7856m	0.182	ppbv	

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

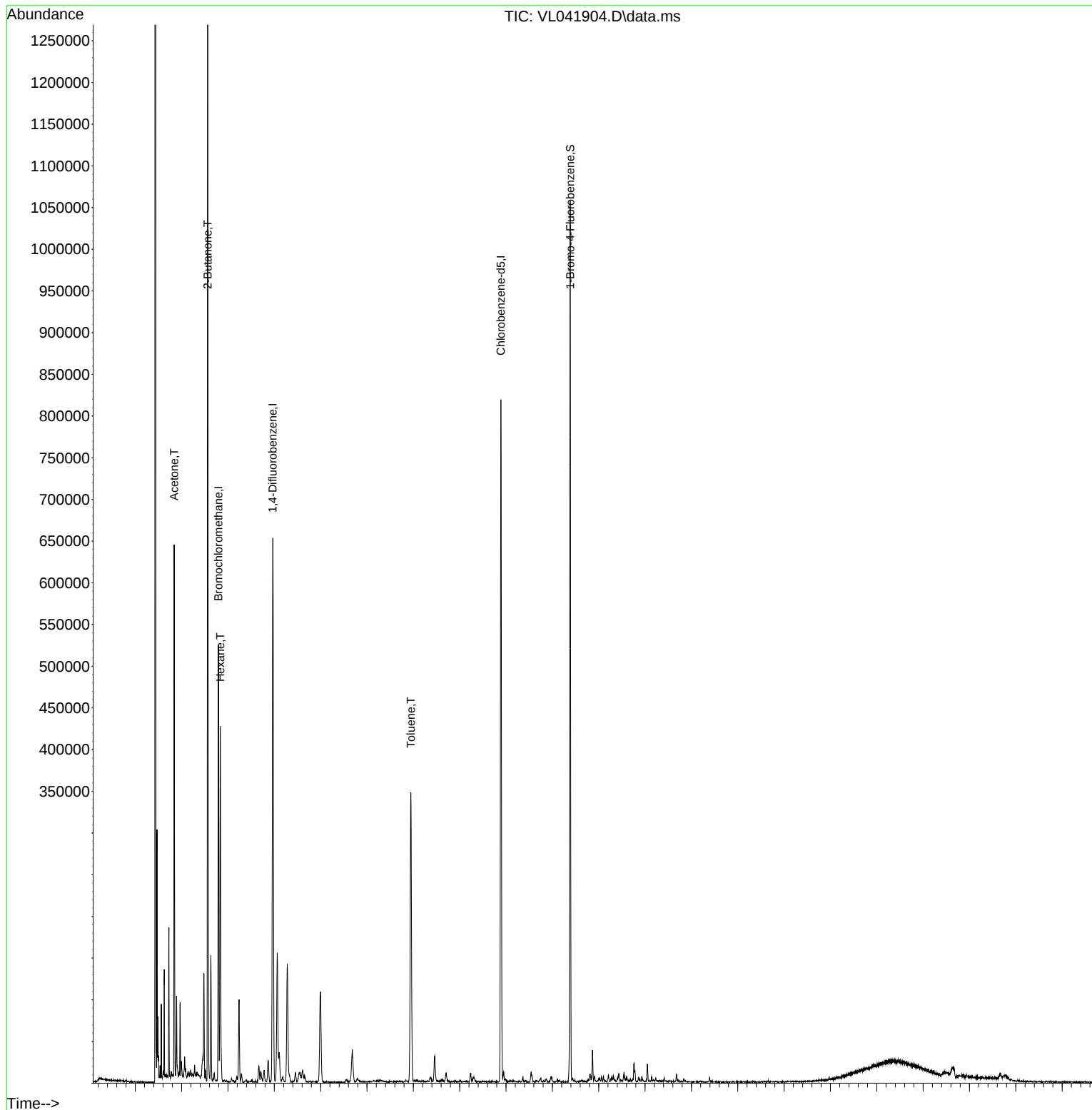
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
Data File : VL041904.D
Acq On : 14 Jan 2025 22:21
Operator : SY/MD
Sample : Q1073-06
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

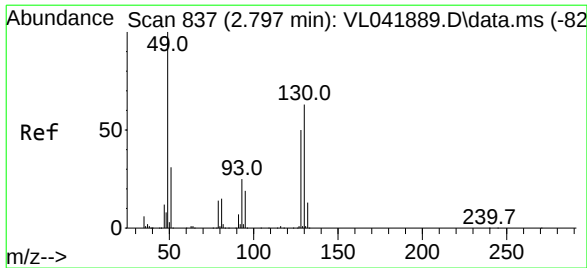
Instrument :
MSVOA_L
ClientSampleId :
IA3

Quant Time: Jan 15 03:28:42 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Tue Jan 14 23:15:42 2025
Response via : Initial Calibration

Manual Integrations
APPROVED

Reviewed By : Semsettin Yesilyurt 01/15/2025
Supervised By : Mahesh Dadoda 01/15/2025





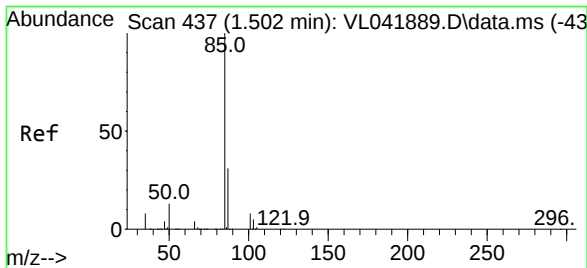
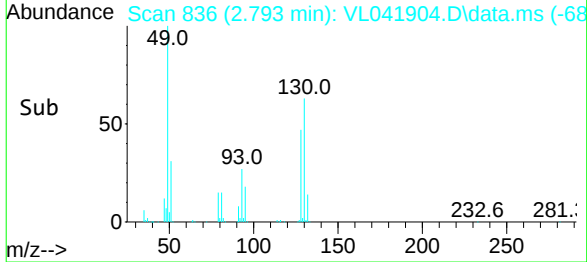
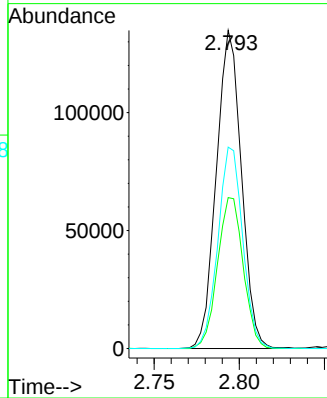
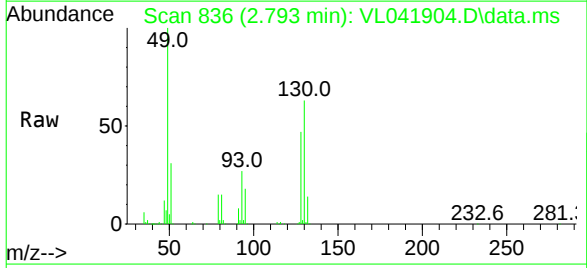
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.793 min Scan# 837
Delta R.T. -0.004 min
Lab File: VL041904.D
Acq: 14 Jan 2025 22:21

Instrument :
MSVOA_L
ClientSampleId :
IA3

Tgt Ion: 49 Resp: 138247
Ion Ratio Lower Upper
49 100
128 48.4 24.3 73.0
130 62.6 31.1 93.2

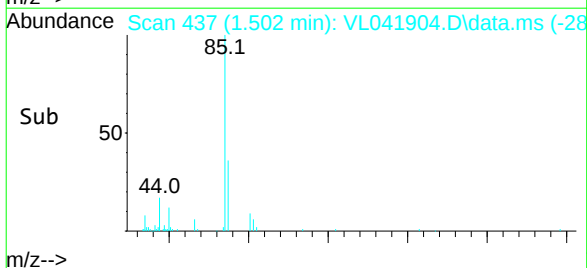
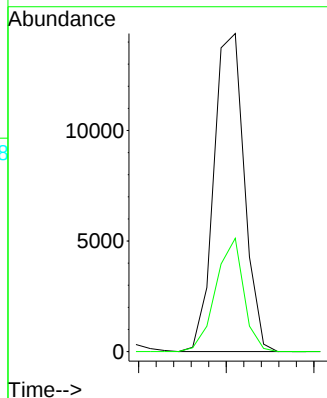
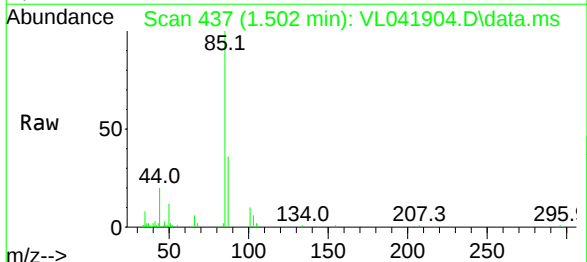
Manual Integrations
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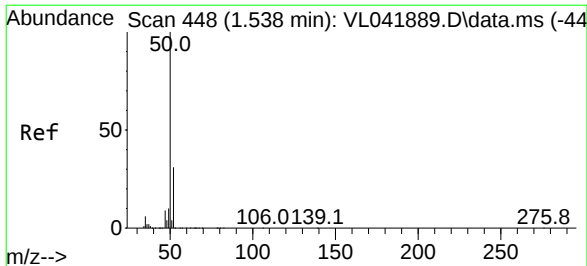
Reviewed By :Semsettin Yesilyurt 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



#2
Dichlorodifluoromethane
Concen: 0.370 ppbv
RT: 1.502 min Scan# 437
Delta R.T. 0.000 min
Lab File: VL041904.D
Acq: 14 Jan 2025 22:21

Tgt Ion: 85 Resp: 6958
Ion Ratio Lower Upper
85 100
87 35.6 24.9 37.3





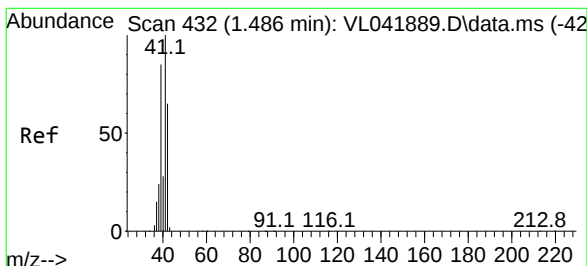
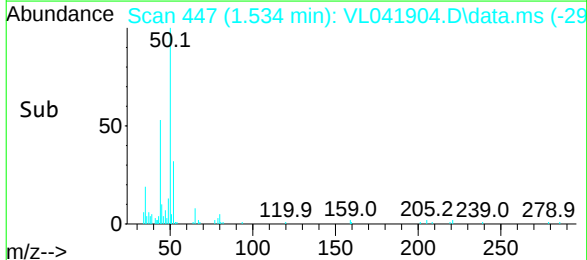
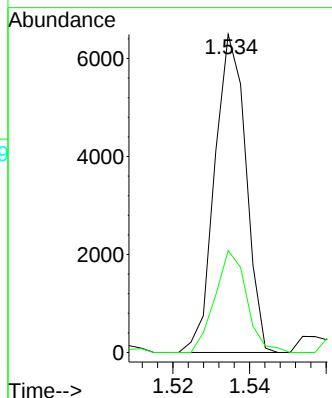
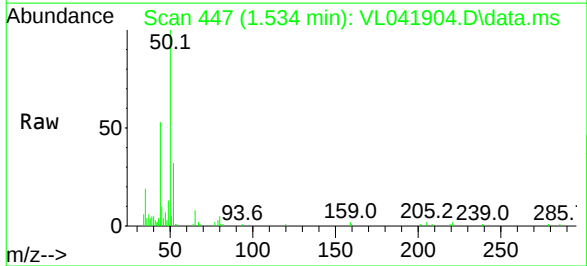
#4
Chloromethane
Concen: 0.519 ppbv
RT: 1.534 min Scan# 448
Delta R.T. -0.003 min
Lab File: VL041904.D
Acq: 14 Jan 2025 22:21

Instrument :
MSVOA_L
ClientSampleId :
IA3

Tgt Ion: 50 Resp: 3674
Ion Ratio Lower Upper
50 100
52 30.6 24.6 36.8

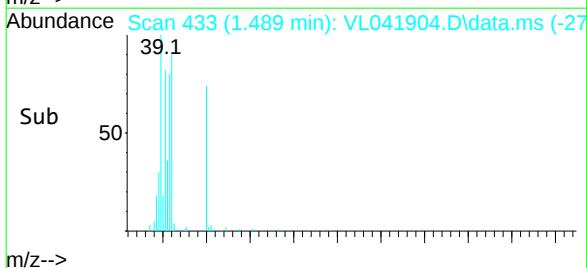
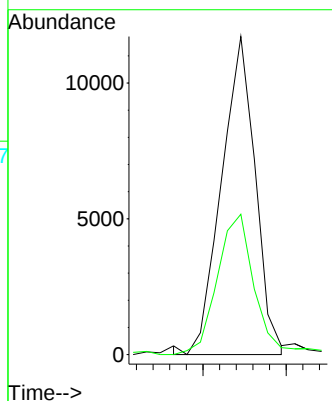
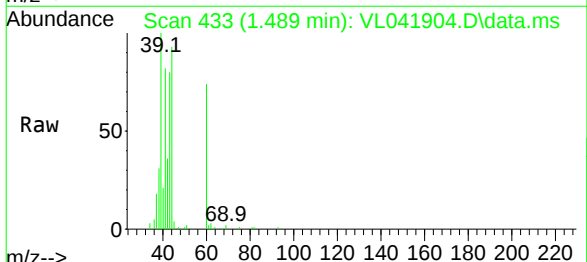
Manual Integrations
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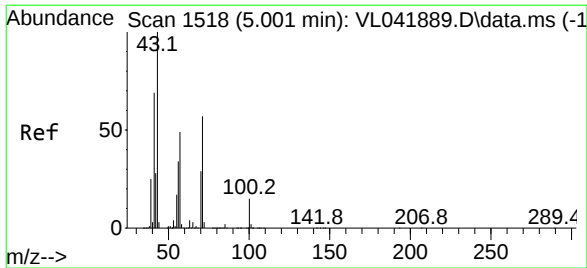
Reviewed By :Semsettin Yesilyurt 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



#9
Propene
Concen: 0.812 ppbv m
RT: 1.489 min Scan# 433
Delta R.T. 0.003 min
Lab File: VL041904.D
Acq: 14 Jan 2025 22:21

Tgt Ion: 41 Resp: 6595
Ion Ratio Lower Upper
41 100
42 39.3 52.0 78.0#





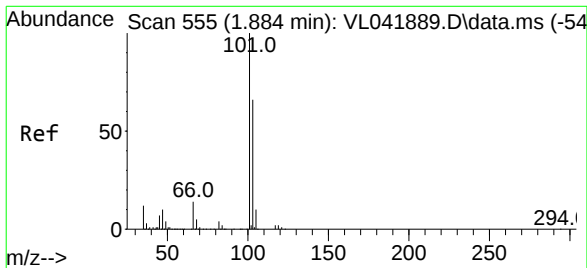
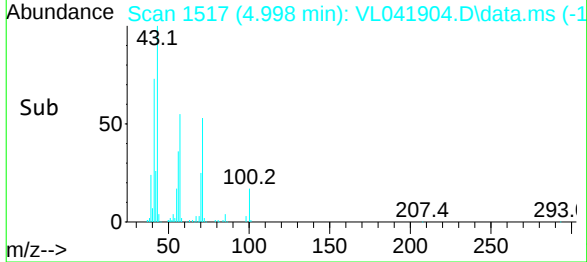
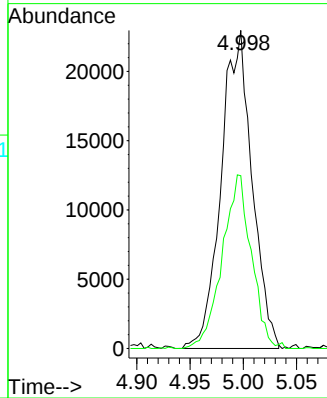
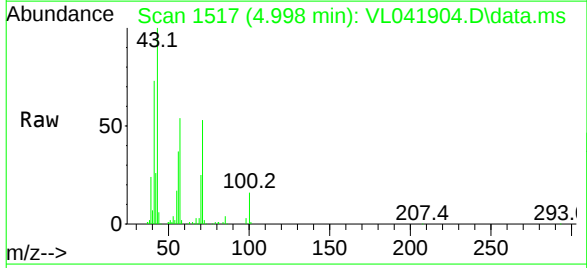
#10
Heptane
Concen: 2.131 ppbv m
RT: 4.998 min Scan# 1518
Delta R.T. -0.003 min
Lab File: VL041904.D
Acq: 14 Jan 2025 22:21

Instrument :
MSVOA_L
ClientSampleId :
IA3

Tgt Ion: 43 Resp: 46281
Ion Ratio Lower Upper
43 100
57 51.6 41.0 61.4

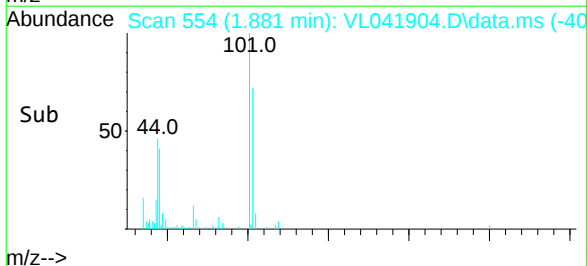
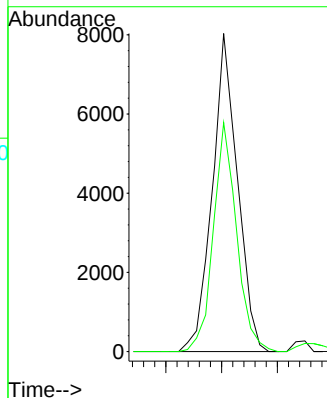
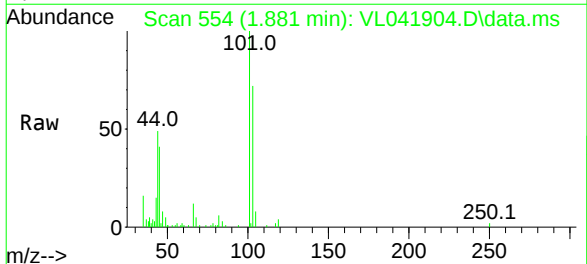
Manual Integrations
APPROVED

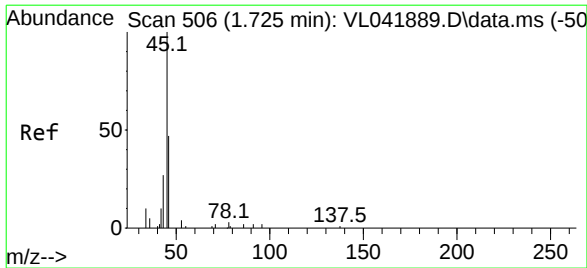
Reviewed By :Semsettin Yesilyurt 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



#11
Trichlorofluoromethane
Concen: 0.257 ppbv
RT: 1.881 min Scan# 554
Delta R.T. -0.003 min
Lab File: VL041904.D
Acq: 14 Jan 2025 22:21

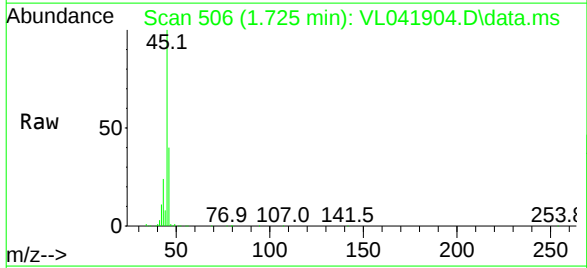
Tgt Ion:101 Resp: 5036
Ion Ratio Lower Upper
101 100
103 72.0 53.1 79.7





#13
Ethanol
Concen: 101.095 ppbv
RT: 1.725 min Scan# 506
Delta R.T. 0.000 min
Lab File: VL041904.D
Acq: 14 Jan 2025 22:21

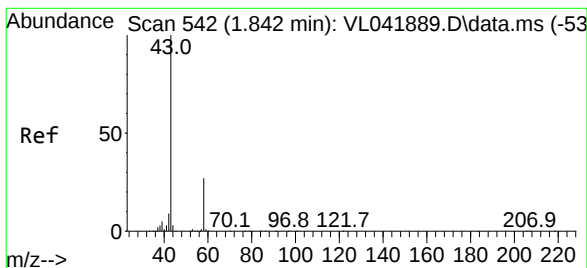
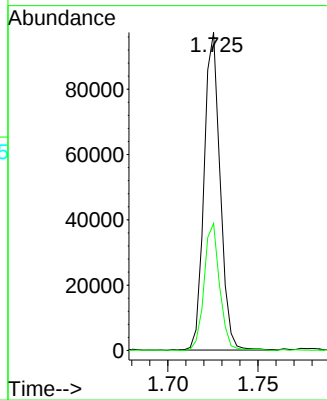
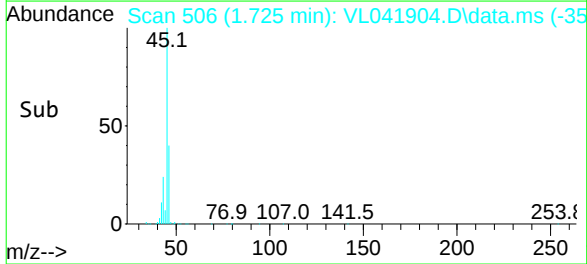
Instrument :
MSVOA_L
ClientSampleId :
IA3



Tgt Ion: 45 Resp: 60176
Ion Ratio Lower Upper
45 100
46 39.4 18.1 72.5

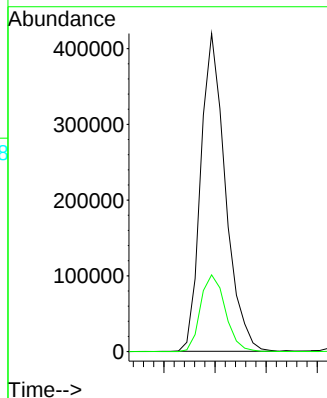
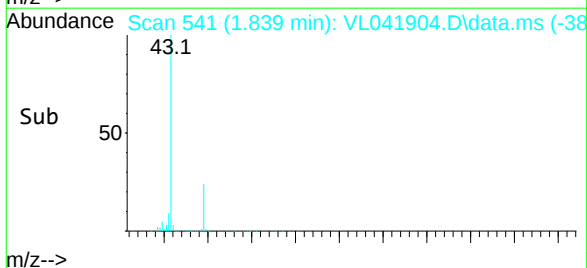
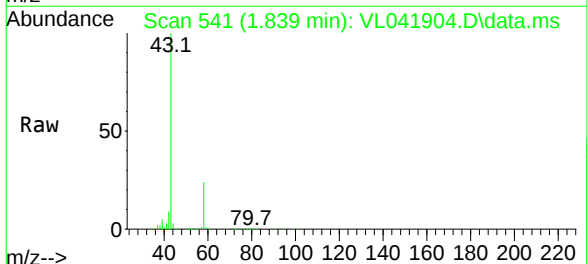
Manual Integrations
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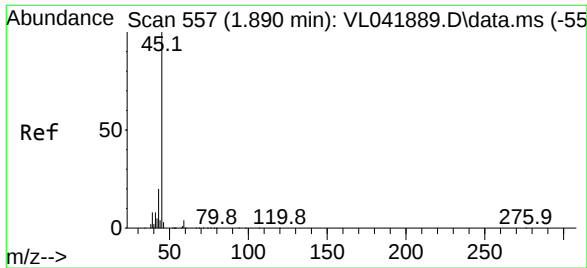
Reviewed By :Semsettin Yesilyurt 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



#15
Acetone
Concen: 16.952 ppbv
RT: 1.839 min Scan# 541
Delta R.T. -0.003 min
Lab File: VL041904.D
Acq: 14 Jan 2025 22:21

Tgt Ion: 43 Resp: 281485
Ion Ratio Lower Upper
43 100
58 24.3 21.9 32.9





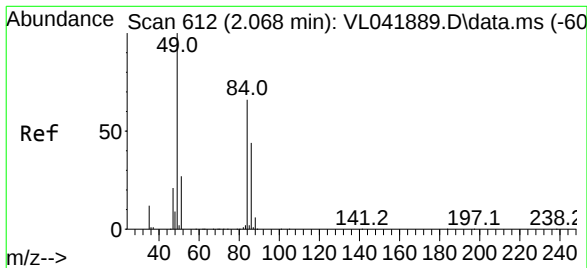
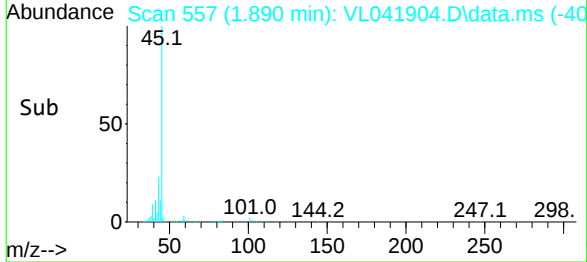
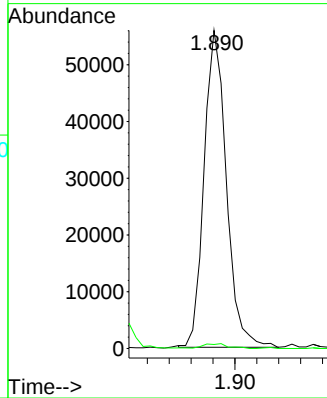
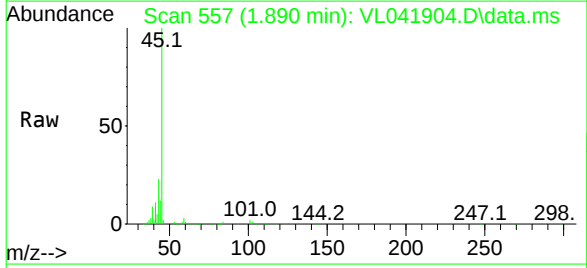
#19
Isopropyl Alcohol
Concen: 4.008 ppbv
RT: 1.890 min Scan# 557
Delta R.T. 0.000 min
Lab File: VL041904.D
Acq: 14 Jan 2025 22:21

Instrument :
MSVOA_L
ClientSampleId :
IA3

Tgt Ion: 45 Resp: 39461
Ion Ratio Lower Upper
45 100
58 173.4 35.0 52.6#

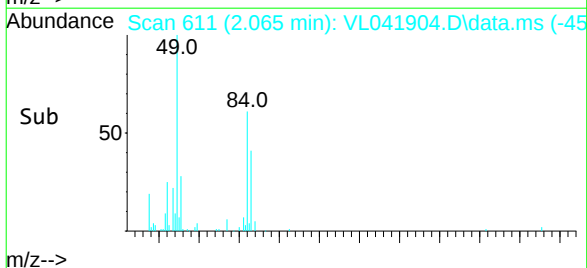
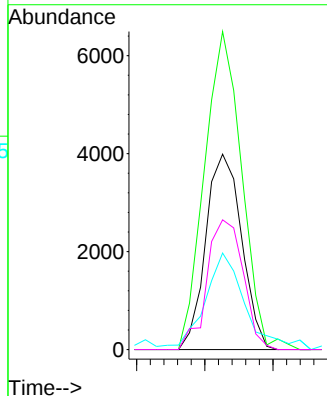
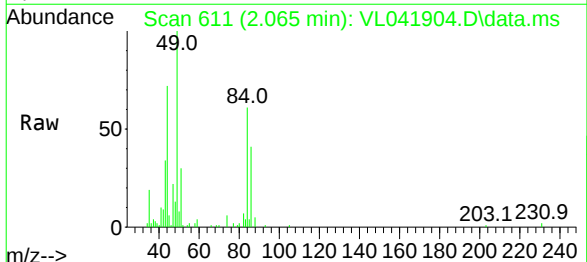
Manual Integrations
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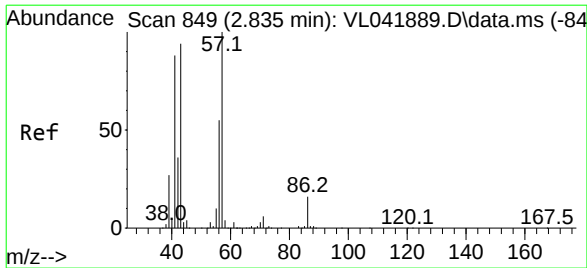
Reviewed By :Semsettin Yesilyurt 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



#20
Methylene Chloride
Concen: 0.445 ppbv
RT: 2.065 min Scan# 611
Delta R.T. -0.003 min
Lab File: VL041904.D
Acq: 14 Jan 2025 22:21

Tgt Ion: 84 Resp: 2919
Ion Ratio Lower Upper
84 100
49 162.8 123.1 184.7
51 47.1 35.8 53.8
86 66.4 53.7 80.5





#26

Hexane

Concen: 5.879 ppbv

RT: 2.832 min Scan# 849

Delta R.T. -0.003 min

Lab File: VL041904.D

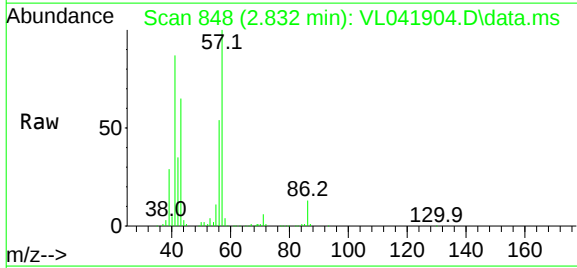
Acq: 14 Jan 2025 22:21

Instrument :

MSVOA_L

ClientSampleId :

IA3



Tgt Ion: 57 Resp: 104107

Ion Ratio Lower Upper

57 100

41 91.3 73.8 110.8

43 68.9 197.3 295.9#

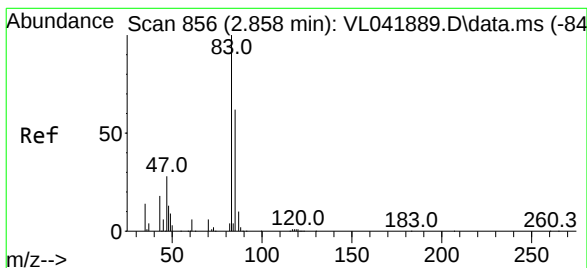
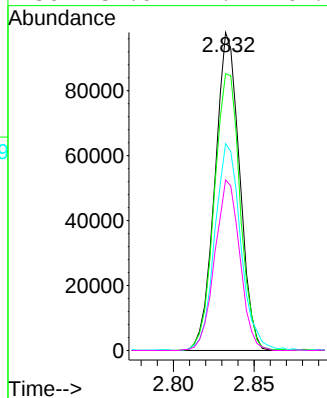
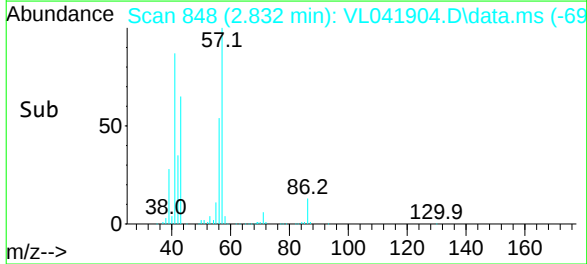
56 54.6 42.7 64.1

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#29

Chloroform

Concen: 0.307 ppbv

RT: 2.858 min Scan# 856

Delta R.T. 0.000 min

Lab File: VL041904.D

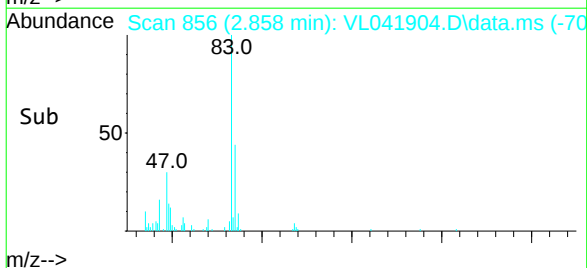
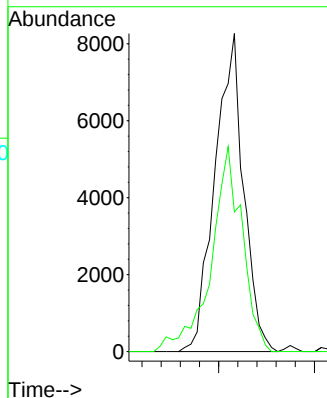
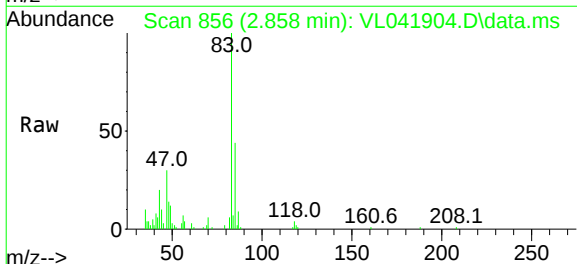
Acq: 14 Jan 2025 22:21

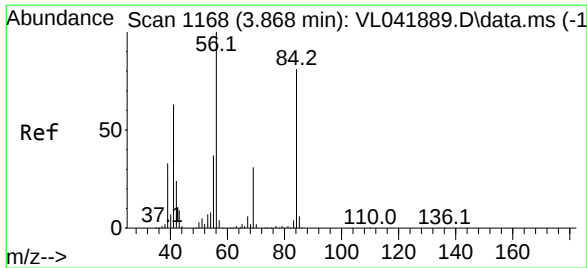
Tgt Ion: 83 Resp: 8588

Ion Ratio Lower Upper

83 100

85 43.9 50.1 75.1#





#30

Cyclohexane

Concen: 0.456 ppbv m

RT: 3.862 min Scan# 11

Delta R.T. -0.006 min

Lab File: VL041904.D

Acq: 14 Jan 2025 22:21

Instrument :

MSVOA_L

ClientSampleId :

IA3

Tgt Ion: 84 Resp: 7006

Ion Ratio Lower Upper

84 100

56 125.6 99.3 148.9

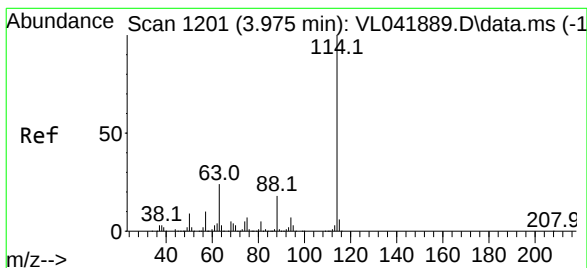
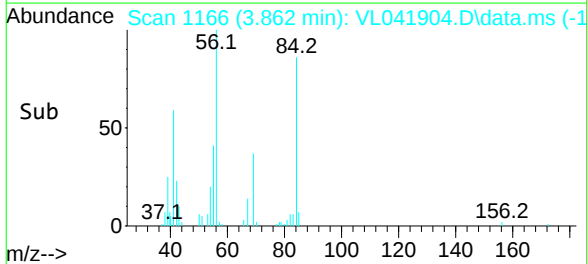
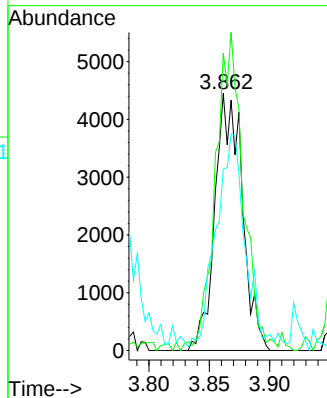
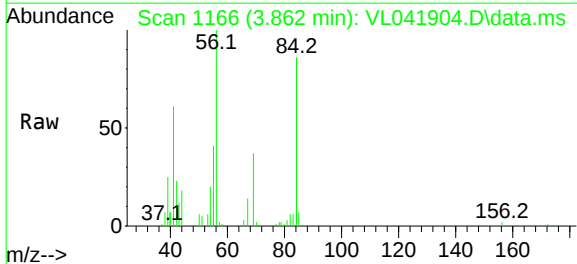
41 84.5 64.3 96.5

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.965 min Scan# 1198

Delta R.T. -0.010 min

Lab File: VL041904.D

Acq: 14 Jan 2025 22:21

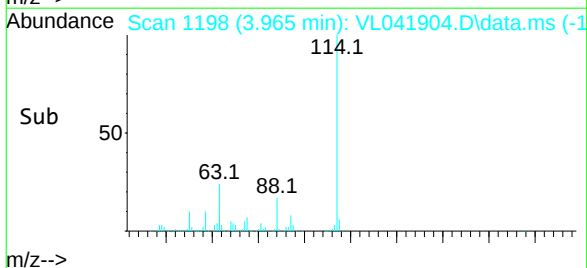
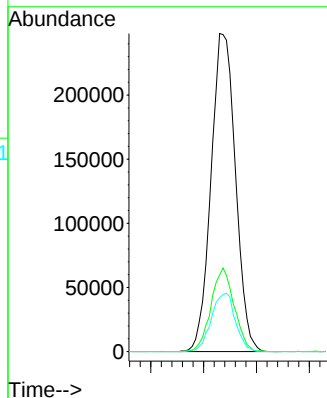
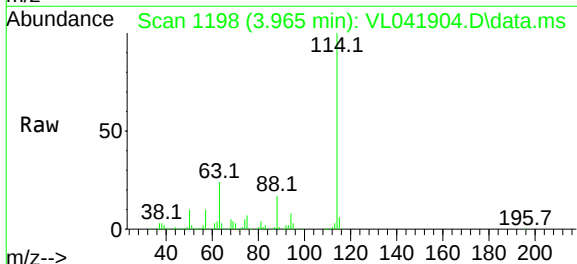
Tgt Ion:114 Resp: 398753

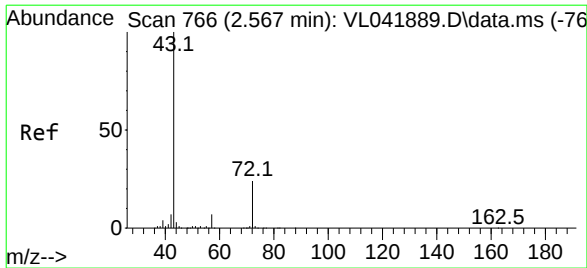
Ion Ratio Lower Upper

114 100

63 24.9 19.8 29.6

88 18.0 14.4 21.6





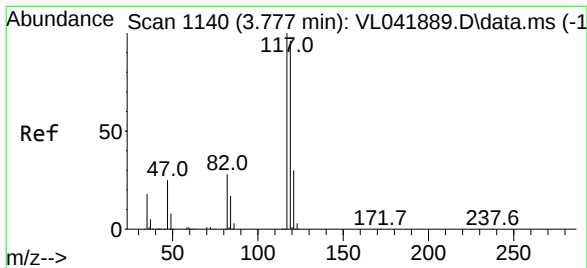
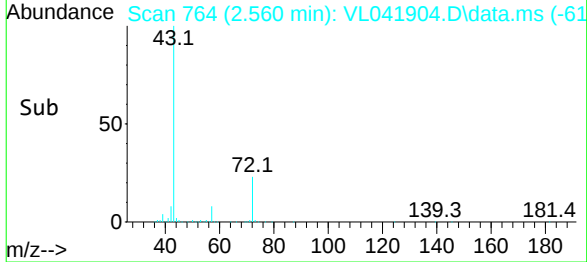
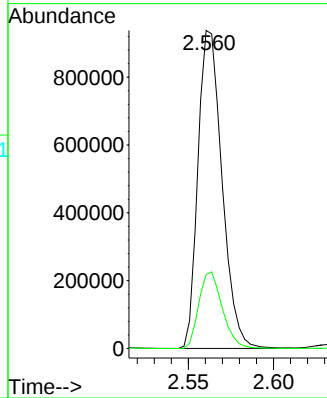
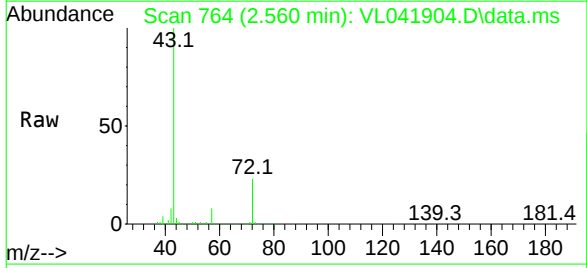
#34
2-Butanone
Concen: 36.319 ppbv
RT: 2.560 min Scan# 766
Delta R.T. -0.006 min
Lab File: VL041904.D
Acq: 14 Jan 2025 22:21

Instrument :
MSVOA_L
ClientSampleId :
IA3

Tgt Ion: 43 Resp: 921004
Ion Ratio Lower Upper
43 100
72 23.5 18.6 28.0

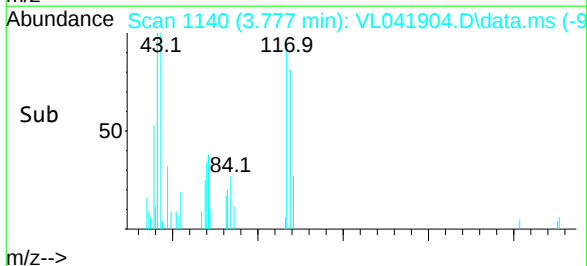
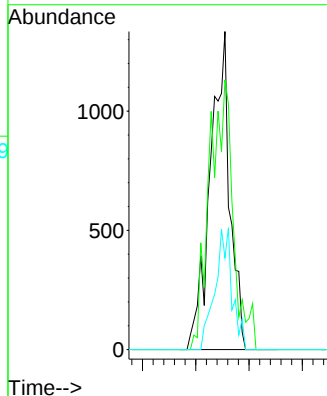
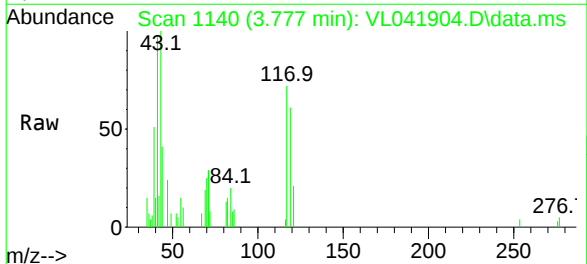
Manual Integrations
APPROVED

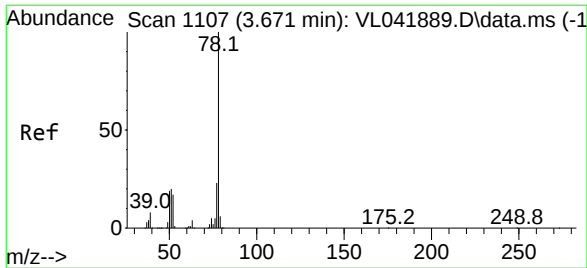
Reviewed By :Semsettin Yesilyurt 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



#35
Carbon Tetrachloride
Concen: 0.068 ppbv m
RT: 3.777 min Scan# 1140
Delta R.T. 0.000 min
Lab File: VL041904.D
Acq: 14 Jan 2025 22:21

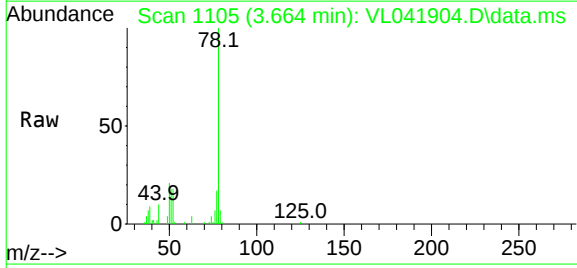
Tgt Ion:117 Resp: 1702
Ion Ratio Lower Upper
117 100
119 84.8 76.9 115.3
121 28.9 23.8 35.6





#36
Benzene
Concen: 0.321 ppbv
RT: 3.664 min Scan# 1107
Delta R.T. -0.006 min
Lab File: VL041904.D
Acq: 14 Jan 2025 22:21

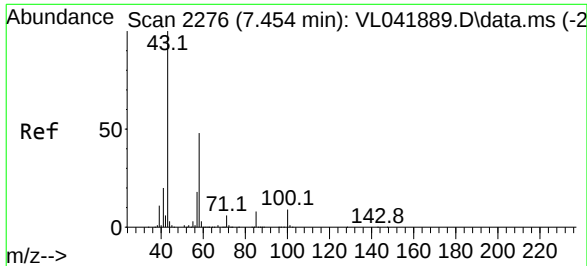
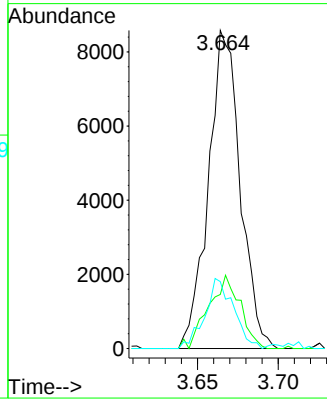
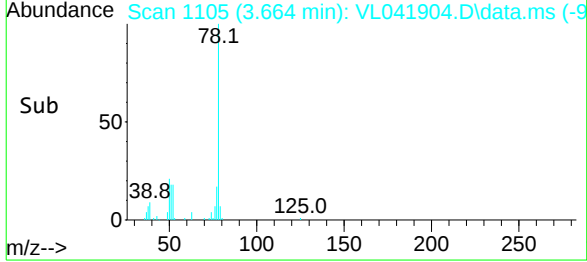
Instrument : MSVOA_L
ClientSampleId : IA3



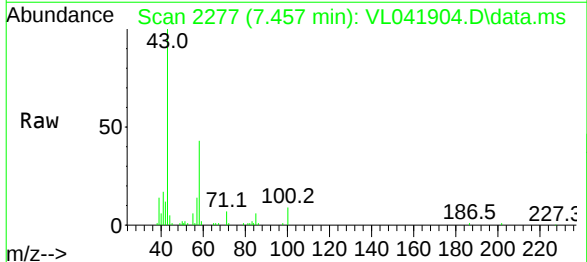
Tgt Ion: 78 Resp: 11748
Ion Ratio Lower Upper
78 100
77 17.0 18.1 27.1#
50 21.0 15.2 22.8

Manual Integrations
APPROVED

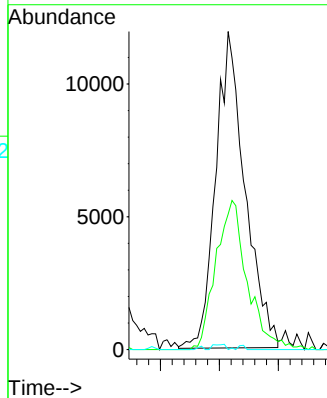
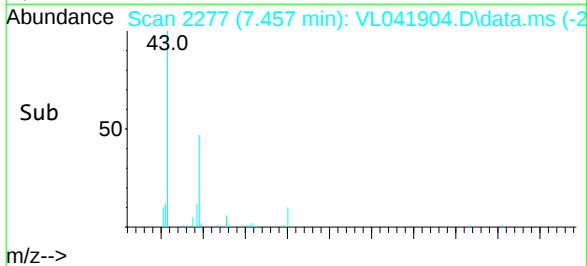
Reviewed By :Semsettin Yesilyurt 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

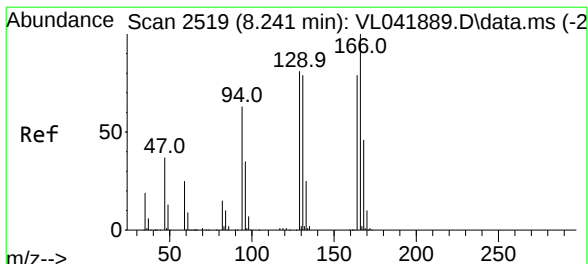


#51
2-Hexanone
Concen: 0.774 ppbv
RT: 7.457 min Scan# 2277
Delta R.T. 0.003 min
Lab File: VL041904.D
Acq: 14 Jan 2025 22:21



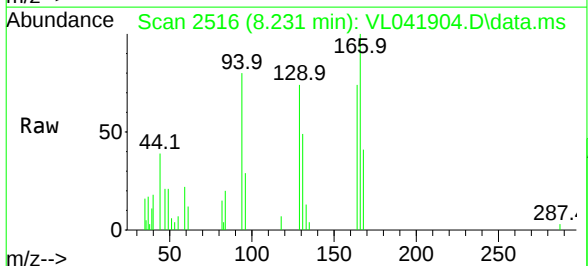
Tgt Ion: 43 Resp: 20588
Ion Ratio Lower Upper
43 100
58 50.6 40.4 60.6
98 1.2 0.2 0.2#





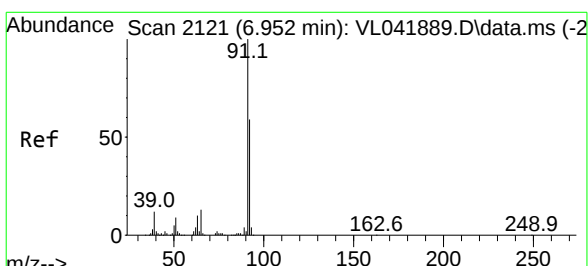
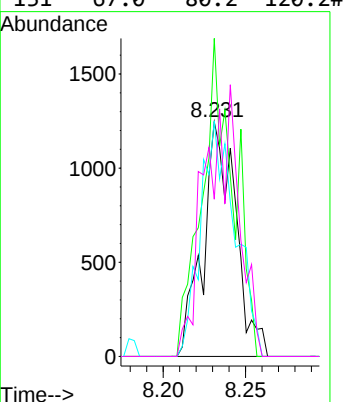
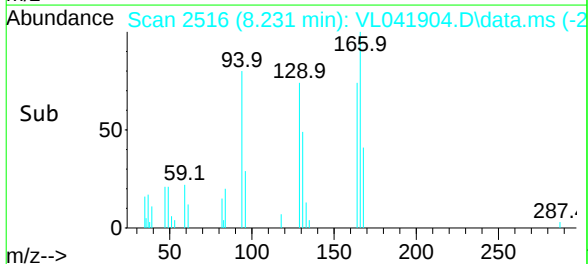
#52
Tetrachloroethene
 Concen: 0.135 ppbv m
 RT: 8.231 min Scan# 2519
 Delta R.T. -0.010 min
 Lab File: VL041904.D
 Acq: 14 Jan 2025 22:21

Instrument : MSVOA_L
ClientSampleId : IA3

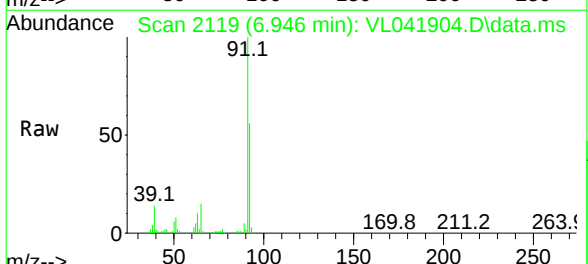


Tgt Ion:	164	Resp:	1714
Ion	Ratio	Lower	Upper
164	100		
166	135.6	100.8	151.2
129	100.4	82.0	123.0
131	67.0	80.2	120.2

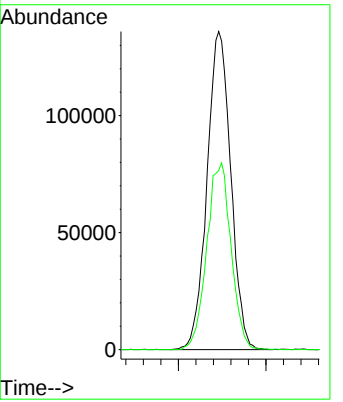
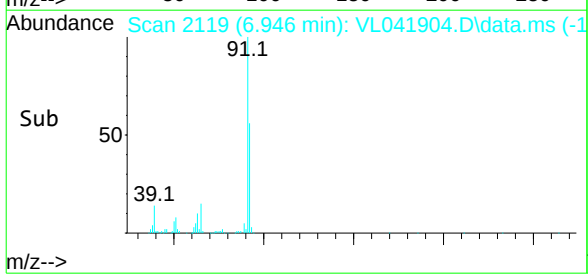
Manual Integrations
APPROVED
 Reviewed By :Semsettin Yesilyurt 01/15/2025
 Supervised By :Mahesh Dadoda 01/15/2025

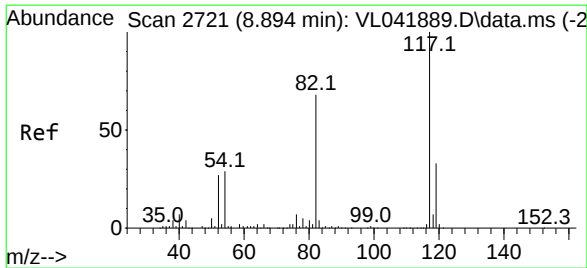


#53
Toluene
 Concen: 6.415 ppbv
 RT: 6.946 min Scan# 2119
 Delta R.T. -0.006 min
 Lab File: VL041904.D
 Acq: 14 Jan 2025 22:21



Tgt Ion:	91	Resp:	255572
Ion	Ratio	Lower	Upper
91	100		
92	60.0	47.4	71.0





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.888 min Scan# 2721

Delta R.T. -0.006 min

Lab File: VL041904.D

Acq: 14 Jan 2025 22:21

Instrument :

MSVOA_L

ClientSampleId :

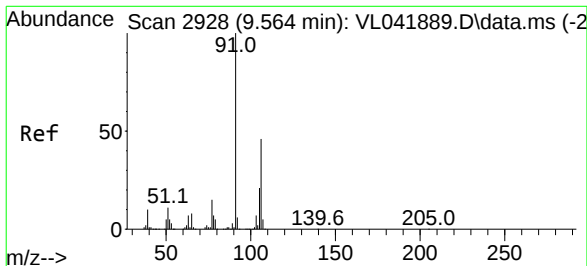
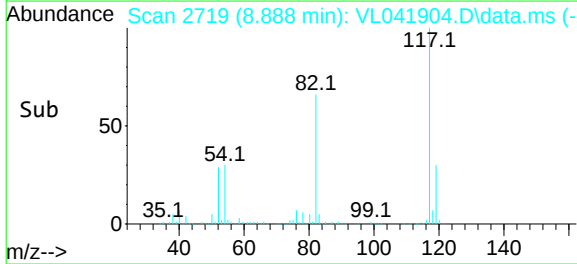
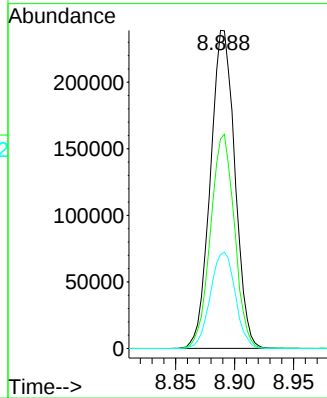
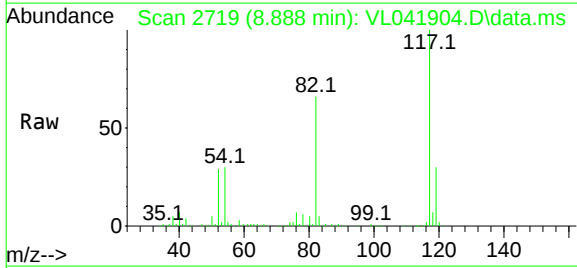
IA3

Tgt Ion:	117	Resp:	345260
Ion	Ratio	Lower	Upper
117	100		
82	65.9	54.2	81.4
119	30.9	25.0	37.6

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



#59

m/p-Xylene

Concen: 0.182 ppbv m

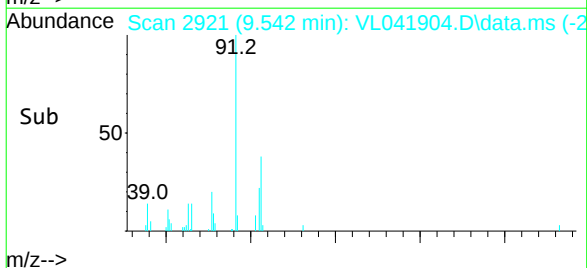
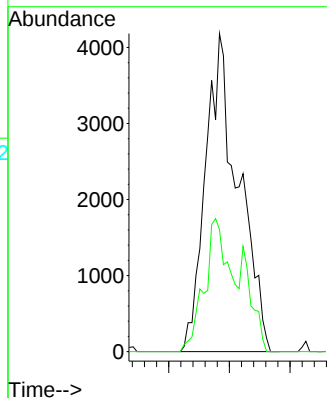
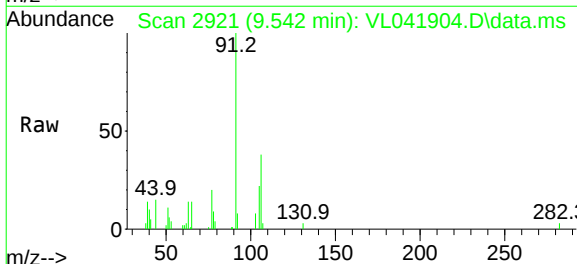
RT: 9.542 min Scan# 2921

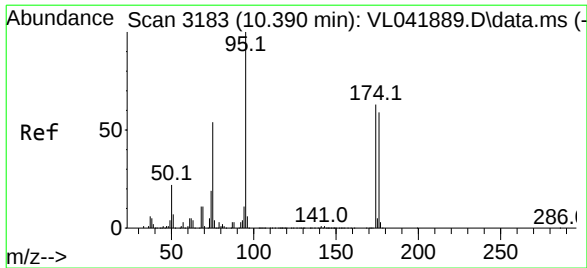
Delta R.T. -0.023 min

Lab File: VL041904.D

Acq: 14 Jan 2025 22:21

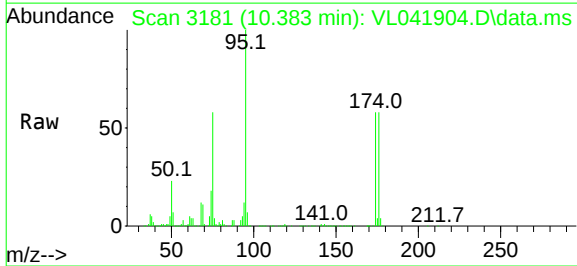
Tgt Ion:	91	Resp:	7856
Ion	Ratio	Lower	Upper
91	100		
106	0.0	36.0	54.0





#68
1-Bromo-4-Fluorobenzene
Concen: 10.045 ppbv
RT: 10.383 min Scan# 31
Delta R.T. -0.006 min
Lab File: VL041904.D
Acq: 14 Jan 2025 22:21

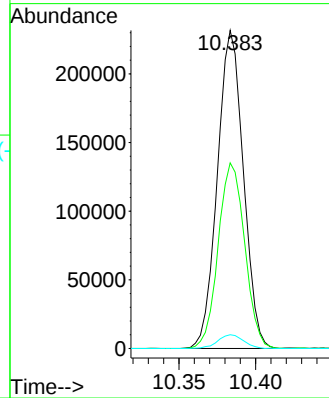
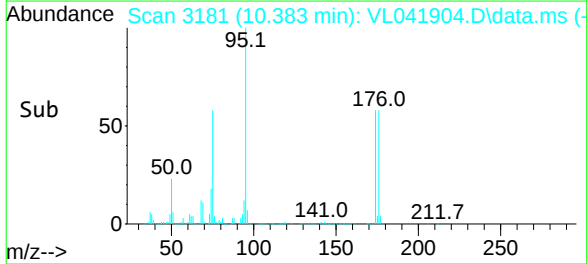
Instrument :
MSVOA_L
ClientSampleId :
IA3



Tgt Ion:	95	Resp:	273151
Ion	Ratio	Lower	Upper
95	100		
174	59.6	49.0	73.4
175	4.3	3.8	5.8

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025





CALIBRATION SUMMARY

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: GFEL01
 Lab Code: CHEM Case No.: Q1073 SAS No.: Q1073 SDG No.: Q1073
 Instrument ID: MSVOA_L Calibration Date(s): 01/14/2025 01/15/2025
 Heated Purge: (Y/N) N Calibration Time(s): 11:40 08:37
 GC Column: RTX-1 ID: 0.32 (mm)

LAB FILE ID:		RRF0.5 = VL041888.D		RRF010 = VL041889.D		RRF2.0 = VL041890.D			
		RRF001 = VL041891.D		RRF0.5 = VL041888.D		RRF0.1 = VL041893.D			
COMPOUND	RRF0.5	RRF010	RRF2.0	RRF001	RRF0.5	RRF0.1	RRF	% RSD	
Vinyl Chloride	0.541	0.466	0.502	0.531	0.541	0.578	0.522	7.2	
1,1-Dichloroethene	0.477	0.458	0.514	0.517	0.477		0.497	5.1	
cis-1,2-Dichloroethene	0.950	1.272	1.390	1.397	0.950		1.282	13.5	
1,1,1-Trichloroethane	1.922	1.905	1.956	2.010	1.922	1.841	1.936	2.6	
Trichloroethene	0.338	0.354	0.373	0.374	0.338	0.427	0.361	11.2	
Tetrachloroethene	0.317	0.292	0.330	0.329	0.317	0.348	0.318	6	
1-Bromo-4-Fluorobenzene	0.802	0.782	0.795	0.792	0.802	0.785	0.789	0.9	

* Compounds with required minimum RRF and maximum %RSD values.
 All other compounds must meet a minimum RRF of 0.010.
 RRF of 1,4-Dioxane = Value should be divide by 1000.

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: GFEL01
 Lab Code: CHEM Case No.: Q1073 SAS No.: Q1073 SDG No.: Q1073
 Instrument ID: MSVOA_L Calibration Date(s): 01/14/2025 01/15/2025
 Heated Purge: (Y/N) N Calibration Time(s): 11:40 08:37
 GC Column: RTX-1 ID: 0.32 (mm)

LAB FILE ID:		RRF0.5 = VL041888.D		RRF010 = VL041889.D		RRF2.0 = VL041890.D			
		RRF001 = VL041891.D		RRF0.5 = VL041892.D		RRF0.1 = VL041893.D			
COMPOUND	RRF0.5	RRF010	RRF2.0	RRF001	RRF0.5	RRF0.1	RRF	% RSD	
Vinyl Chloride	0.541	0.466	0.502	0.531	0.561	0.578	0.522	7.2	
1,1-Dichloroethene	0.477	0.458	0.514	0.517	0.520		0.497	5.1	
cis-1,2-Dichloroethene	0.950	1.272	1.390	1.397	1.406		1.282	13.5	
1,1,1-Trichloroethane	1.922	1.905	1.956	2.010	1.942	1.841	1.936	2.6	
Trichloroethene	0.338	0.354	0.373	0.374	0.381	0.427	0.361	11.2	
Tetrachloroethene	0.317	0.292	0.330	0.329	0.317	0.348	0.318	6	
1-Bromo-4-Fluorobenzene	0.802	0.782	0.795	0.792	0.784	0.785	0.789	0.9	

* Compounds with required minimum RRF and maximum %RSD values.
 All other compounds must meet a minimum RRF of 0.010.
 RRF of 1,4-Dioxane = Value should be divide by 1000.

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: GFEL01
 Lab Code: CHEM Case No.: Q1073 SAS No.: Q1073 SDG No.: Q1073
 Instrument ID: MSVOA_L Calibration Date(s): 01/14/2025 01/15/2025
 Heated Purge: (Y/N) N Calibration Time(s): 14:30 08:37
 GC Column: RTX-1 ID: 0.32 (mm)

LAB FILE ID:		RRF0.5 = VL041892.D		RRF010 = VL041889.D		RRF2.0 = VL041890.D		
		RRF001 = VL041891.D		RRF0.5 = VL041888.D		RRF0.1 = VL041893.D		
COMPOUND	RRF0.5	RRF010	RRF2.0	RRF001	RRF0.5	RRF0.1	RRF	% RSD
Vinyl Chloride	0.561	0.466	0.502	0.531	0.541	0.578	0.522	7.2
1,1-Dichloroethene	0.520	0.458	0.514	0.517	0.477		0.497	5.1
cis-1,2-Dichloroethene	1.406	1.272	1.390	1.397	0.950		1.282	13.5
1,1,1-Trichloroethane	1.942	1.905	1.956	2.010	1.922	1.841	1.936	2.6
Trichloroethene	0.381	0.354	0.373	0.374	0.338	0.427	0.361	11.2
Tetrachloroethene	0.317	0.292	0.330	0.329	0.317	0.348	0.318	6
1-Bromo-4-Fluorobenzene	0.784	0.782	0.795	0.792	0.802	0.785	0.789	0.9

* Compounds with required minimum RRF and maximum %RSD values.
 All other compounds must meet a minimum RRF of 0.010.
 RRF of 1,4-Dioxane = Value should be divide by 1000.

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: GFEL01
 Lab Code: CHEM Case No.: Q1073 SAS No.: Q1073 SDG No.: Q1073
 Instrument ID: MSVOA_L Calibration Date(s): 01/14/2025 01/15/2025
 Heated Purge: (Y/N) N Calibration Time(s): 14:30 08:37
 GC Column: RTX-1 ID: 0.32 (mm)

LAB FILE ID:		RRF0.5 = VL041892.D		RRF010 = VL041889.D		RRF2.0 = VL041890.D			
		RRF001 = VL041891.D		RRF0.5 = VL041892.D		RRF0.1 = VL041893.D			
COMPOUND	RRF0.5	RRF010	RRF2.0	RRF001	RRF0.5	RRF0.1	RRF	% RSD	
Vinyl Chloride	0.561	0.466	0.502	0.531	0.561	0.578	0.522	7.2	
1,1-Dichloroethene	0.520	0.458	0.514	0.517	0.520		0.497	5.1	
cis-1,2-Dichloroethene	1.406	1.272	1.390	1.397	1.406		1.282	13.5	
1,1,1-Trichloroethane	1.942	1.905	1.956	2.010	1.942	1.841	1.936	2.6	
Trichloroethene	0.381	0.354	0.373	0.374	0.381	0.427	0.361	11.2	
Tetrachloroethene	0.317	0.292	0.330	0.329	0.317	0.348	0.318	6	
1-Bromo-4-Fluorobenzene	0.784	0.782	0.795	0.792	0.784	0.785	0.789	0.9	

* Compounds with required minimum RRF and maximum %RSD values.
 All other compounds must meet a minimum RRF of 0.010.
 RRF of 1,4-Dioxane = Value should be divide by 1000.

Method Path : Z:\voasrv\HPCHEM1\MSVOA_L\methods\

Method File : VL011425AIR.M

Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

Last Update : Tue Jan 14 23:15:42 2025

Response Via : Initial Calibration

Calibration Files

0.03=VL041894.D 0.1 =VL041893.D 0.5 =VL041892.D 1 =VL041891.D 2 =VL041890.D 10 =VL041889.D 15 =VL041895.D

Compound	0.03	0.1	0.5	1	2	10	15	Avg	%RSD

1) I Bromochloromethane	-----ISTD-----								
2) T Dichlorodifluo...			1.450	1.406	1.359	1.300	1.295	1.362	4.93
3) Chlorodifluoro...			1.448	1.547	1.466	1.330	1.343	1.427	6.34
4) Chloromethane			0.546	0.499	0.525	0.492	0.499	0.512	4.41
5) T Vinyl Chloride	0.504	0.578	0.561	0.531	0.502	0.466	0.491	0.519	7.62
6) T Bromomethane			0.253	0.274	0.248	0.229	0.233	0.247	7.30
7) Chloroethane			0.210	0.205	0.209	0.193	0.194	0.202	4.08
8) T Dichlorotetra...			1.282	1.198	1.225	1.095	1.151	1.190	5.99
9) T Propene			0.642	0.577	0.605	0.568	0.548	0.588	6.21
10) T Heptane			1.536	1.616	1.635	1.530	1.538	1.571	3.19
11) T Trichlorofluor...			1.488	1.417	1.435	1.335	1.410	1.417	3.87
12) T 1,1,2-Trichlor...			1.098	1.137	1.166	1.057	1.095	1.110	3.78
13) Ethanol			0.065	0.043	0.051	0.027	0.029	0.043#	36.98
14) T Bromoethene			0.420	0.445	0.403	0.371	0.393	0.407	6.93
15) T Acetone			1.405	1.301	1.256	0.991	1.051	1.201	14.50
16) T 1,3-Butadiene			0.552	0.589	0.545	0.494	0.515	0.539	6.74
17) tert-Butyl alc...			1.527	1.559	1.503	1.399	1.404	1.478	4.91
18) T 1,1-Dichloroet...			0.520	0.517	0.514	0.458	0.492	0.501	5.18
19) T Isopropyl Alcohol			0.864	0.731	0.714	0.621	0.631	0.712	13.77
20) T Methylene Chlo...			0.586	0.503	0.478	0.390	0.416	0.475	16.27
21) T Allyl Chloride			0.897	0.823	0.847	0.792	0.799	0.832	5.06
22) T trans-1,2-Dich...			0.549	0.583	0.595	0.540	0.556	0.565	4.13
23) T Vinyl Acetate			0.873	0.475	0.543	0.538	0.549	0.595	26.54
24) T 1,1-Dichloroet...			1.165	1.099	1.100	1.016	1.083	1.093	4.84
25) T Ethyl Acetate			3.219	3.352	3.399	3.094	3.131	3.239	4.13
26) T Hexane			1.265	1.249	1.388	1.261	1.242	1.281	4.71
27) T Carbon Disulfide			1.210	1.256	1.304	1.258	1.311	1.268	3.22
28) T Methyl tert-Bu...			1.043	1.187	1.007	0.774	0.885	0.979	16.08
29) T Chloroform			2.101	2.060	2.105	1.911	1.947	2.025	4.45
30) T Cyclohexane			1.037	1.193	1.145	1.082	1.098	1.111	5.41
31) T cis-1,2-Dichlo...			1.406	1.397	1.390	1.272	1.279	1.349	4.98
32) T 1,1,1-Trichlor...	1.937	1.841	1.942	2.010	1.956	1.905	1.973	1.938	2.76

33) I 1,4-Difluorobenzene	-----ISTD-----								
34) T 2-Butanone			0.649	0.646	0.679	0.602	0.605	0.636	5.13
35) T Carbon Tetrach...	0.605	0.608	0.584	0.616	0.657	0.649	0.677	0.628	5.32
36) T Benzene			0.926	0.949	0.949	0.882	0.879	0.917	3.78
37) T 1,2-Dichloroet...			0.539	0.516	0.517	0.493	0.510	0.515	3.23
38) T Trichloroethene	0.286	0.427	0.381	0.374	0.373	0.354	0.353	0.364	11.62
39) T 1,2-Dichloropr...			0.349	0.321	0.329	0.305	0.304	0.322	5.81

Method Path : Z:\voasrv\HPCHEM1\MSVOA_L\methods\											
Method File : VL011425AIR.M											
40)	T	1,4-Dioxane			0.187	0.162	0.161	0.147	0.155	0.162	9.21
41)	T	Tetrahydrofuran			0.333	0.344	0.358	0.348	0.346	0.346	2.53
42)	T	Bromodichlorom...			0.700	0.659	0.703	0.684	0.707	0.691	2.84
43)		Methyl Methacr...			0.340	0.336	0.349	0.338	0.341	0.341	1.41
44)	T	2,2,4-Trimethy...			1.450	1.501	1.566	1.457	1.444	1.484	3.45
45)	T	t-1,3-Dichloro...			0.300	0.292	0.319	0.338	0.346	0.319	7.38
46)	T	cis-1,3-Dichlo...			0.371	0.391	0.439	0.446	0.447	0.419	8.43
47)	T	1,1,2-Trichlor...			0.340	0.345	0.350	0.333	0.336	0.341	2.06
48)	T	Dibromochlorom...			0.490	0.489	0.541	0.545	0.566	0.526	6.64
49)	T	Bromoform			0.379	0.394	0.439	0.460	0.488	0.432	10.53
50)	T	4-Methyl-2-Pen...			0.892	0.870	0.899	0.833	0.846	0.868	3.29
51)	T	2-Hexanone			0.622	0.640	0.739	0.652	0.683	0.667	6.91
52)	T	Tetrachloroethene	0.320	0.348	0.317	0.329	0.330	0.292	0.291	0.318	6.46
53)	T	Toluene			0.934	0.996	1.048	1.011	1.008	0.999	4.14
54)	T	1,2-Dibromoethane	0.440		0.488	0.468	0.494	0.454	0.470	0.469	4.32
-----ISTD-----											
55)	I	Chlorobenzene-d5									
56)		1,1,1,2-Tetrac...			0.502	0.514	0.510	0.481	0.488	0.499	2.86
57)	T	Chlorobenzene			0.986	0.968	0.977	0.848	0.832	0.922	8.18
58)	T	Ethyl Benzene			1.507	1.563	1.653	1.551	1.541	1.563	3.49
59)	T	m/p-Xylene			1.186	1.265	1.355	1.223	1.234	1.253	5.10
60)	T	o-Xylene			1.179	1.241	1.348	1.224	1.224	1.243	5.06
61)	T	Styrene			0.516	0.515	0.576	0.587	0.595	0.558	7.02
62)		Isopropylbenzene			1.927	1.925	2.066	1.854	1.848	1.924	4.56
63)	T	1,1,2,2-Tetrac...	0.756		0.816	0.845	0.858	0.751	0.741	0.795	6.52
64)		n-propylbenzene			0.481	0.495	0.521	0.469	0.464	0.486	4.78
65)		tert-Butylbenzene			1.746	1.782	1.919	1.675	1.645	1.753	6.12
66)	T	Benzyl Chloride			0.102	0.093	0.113	0.115	0.119	0.109	9.71
67)		sec-Butylbenzene			2.389	2.457	2.681	2.299	2.246	2.414	7.04
68)	S	1-Bromo-4-Fluo...	0.783	0.785	0.784	0.792	0.795	0.782	0.792	0.788	0.65
69)		p-Isopropyltol...			1.852	2.013	2.256	1.927	1.892	1.988	8.11
70)		n-Butylbenzene			1.867	2.048	2.206	1.898	1.840	1.972	7.80
71)		2-Chlorotoluene			1.394	1.410	1.537	1.389	1.385	1.423	4.54
72)	T	4-Ethyltoluene			1.442	1.447	1.610	1.466	1.472	1.487	4.67
73)	T	1,3,5-Trimethy...			1.222	1.360	1.448	1.263	1.275	1.313	6.88
74)	T	1,2,4-Trimethy...			1.359	1.456	1.607	1.346	1.344	1.422	7.97
75)	T	1,3-Dichlorobe...			0.881	0.884	0.903	0.776	0.771	0.843	7.61
76)	T	1,4-Dichlorobe...			0.830	0.859	0.889	0.769	0.777	0.825	6.29
77)	T	1,2-Dichlorobe...			0.863	0.902	0.909	0.757	0.745	0.835	9.43
78)	T	Hexachloro-1,3...			0.747	0.742	0.772	0.586	0.582	0.686	13.66
79)	T	Naphthalene	0.978		1.479	1.682	1.941	1.255	1.259	1.432	24.01
80)	T	Naphthalene,2-...			0.572	0.724	1.151	0.463	0.485	0.679	41.70
81)	T	1,2,4-Trichlor...			0.745	0.738	0.819	0.598	0.596	0.699	14.10

(#) = Out of Range

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
 Data File : VL041888.D
 Acq On : 14 Jan 2025 11:40
 Operator : SY/MD
 Sample : VSTDICC0.5
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC0.5

Quant Time: Jan 14 21:19:53 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Tue Jan 14 16:31:18 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.794	49	151983	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.965	114	455570	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.888	117	395574	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.383	95	317243	10.182	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.800%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.499	85	11222	0.542	ppbv	97
3) Chlorodifluoromethane	1.476	51	11427	0.527	ppbv	98
4) Chloromethane	1.534	50	4633	0.595	ppbv #	88
5) Vinyl Chloride	1.583	62	4109	0.521	ppbv	90
6) Bromomethane	1.670	94	1954	0.520	ppbv #	77
7) Chloroethane	1.709	64	1671	0.545	ppbv	100
8) Dichlorotetrafluoroethane	1.557	85	8917	0.493	ppbv	99
9) Propene	1.486	41	4949	0.554	ppbv	91
10) Heptane	4.994	43	11425	0.478	ppbv	97
11) Trichlorofluoromethane	1.881	101	9906	0.460	ppbv	89
12) 1,1,2-Trichlorotrifluo...	2.143	101	8347	0.495	ppbv	99
13) Ethanol	1.729	45	553	0.845	ppbv #	52
14) Bromoethene	1.784	108	2955	0.478	ppbv #	82
15) Acetone	1.842	43	10038	0.550	ppbv	90
16) 1,3-Butadiene	1.612	39	4829	0.589	ppbv	91
17) tert-Butyl alcohol	2.049	59	10637	0.473	ppbv #	88
18) 1,1-Dichloroethene	2.036	96	3626	0.477	ppbv	95
19) Isopropyl Alcohol	1.891	45	6365	0.588	ppbv #	32
20) Methylene Chloride	2.065	84	4359	0.604	ppbv	91
21) Allyl Chloride	2.101	41	6185	0.489	ppbv	95
22) trans-1,2-Dichloroethene	2.347	96	4132	0.481	ppbv	91
23) Vinyl Acetate	2.467	43	4508	0.567	ppbv #	92
24) 1,1-Dichloroethane	2.412	63	8388	0.505	ppbv #	94
25) Ethyl Acetate	2.849	43	24398	0.496	ppbv #	96
26) Hexane	2.836	57	10331	0.531	ppbv	99
27) Carbon Disulfide	2.153	76	8804	0.457	ppbv #	1
28) Methyl tert-Butyl Ether	2.447	73	6336	0.426	ppbv	95
29) Chloroform	2.855	83	15742	0.512	ppbv	95
30) Cyclohexane	3.868	84	6553	0.388	ppbv #	60
31) cis-1,2-Dichloroethene	2.344	61	7218	0.352	ppbv	96
32) 1,1,1-Trichloroethane	3.376	97	14604	0.496	ppbv	95
34) 2-Butanone	2.567	43	15277	0.527	ppbv	97
35) Carbon Tetrachloride	3.768	117	14044	0.490	ppbv	84
36) Benzene	3.664	78	21546	0.516	ppbv	96
37) 1,2-Dichloroethane	3.227	62	11973	0.510	ppbv	98
38) Trichloroethene	4.561	130	7688	0.463	ppbv #	89
39) 1,2-Dichloropropane	4.337	63	1610	0.110	ppbv	95
40) 1,4-Dioxane	4.613	88	1107	0.150	ppbv #	1
41) Tetrahydrofuran	3.069	42	8443	0.534	ppbv	97
42) Bromodichloromethane	4.502	83	15340	0.488	ppbv	89
43) Methyl Methacrylate	4.891	69	7309	0.471	ppbv #	90
44) 2,2,4-Trimethylpentane	4.648	57	20546	0.304	ppbv #	42
45) t-1,3-Dichloropropene	6.419	75	1770	0.122	ppbv #	86

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
 Data File : VL041888.D
 Acq On : 14 Jan 2025 11:40
 Operator : SY/MD
 Sample : VSTDIC0.5
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Quant Time: Jan 14 21:19:53 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Tue Jan 14 16:31:18 2025
 Response via : Initial Calibration

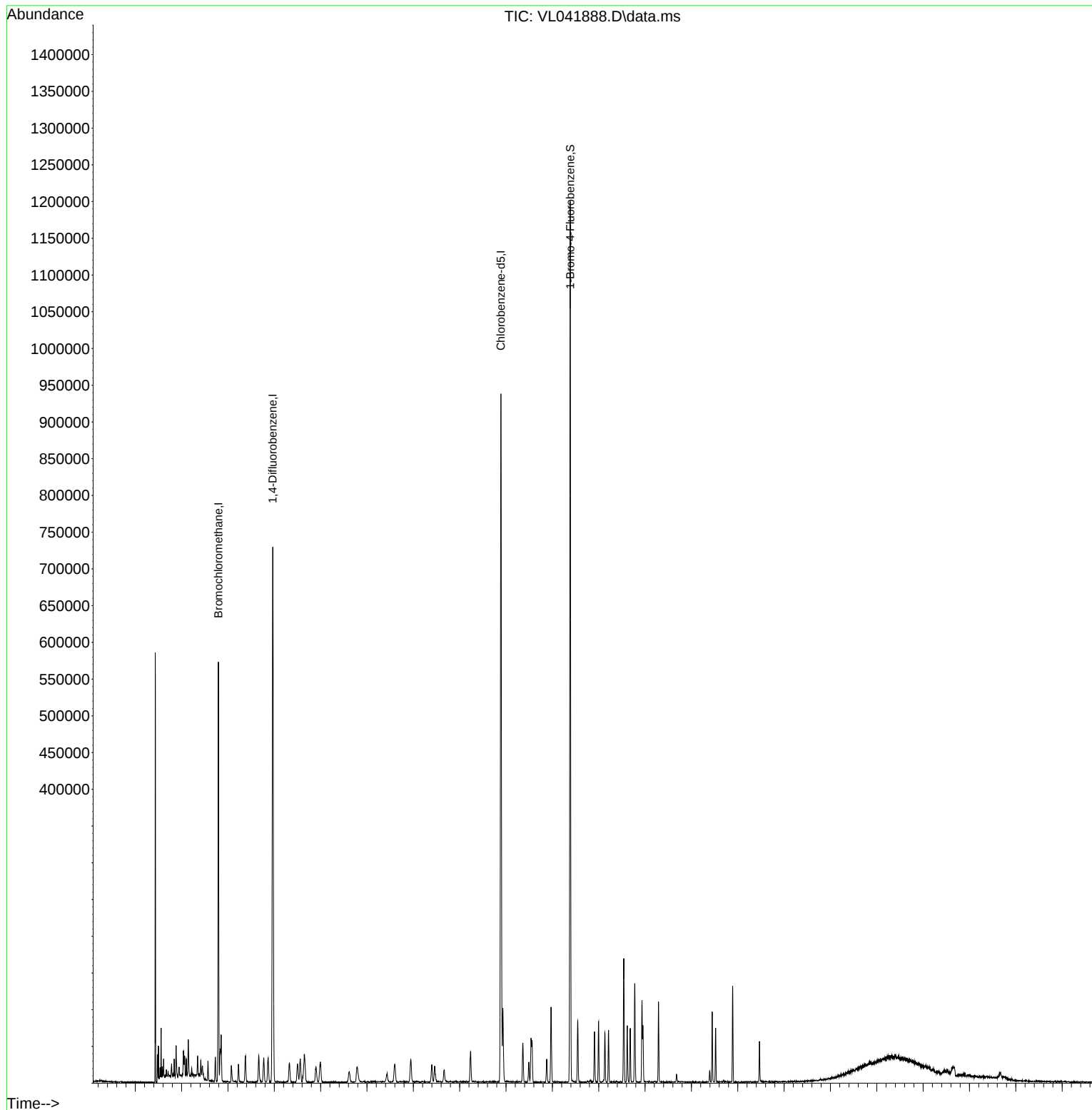
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.609	75	4470	0.234	ppbv	95
47) 1,1,2-Trichloroethane	6.597	97	3651	0.235	ppbv #	91
48) Dibromochloromethane	7.399	129	11087	0.463	ppbv	99
49) Bromoform	9.490	173	9073	0.461	ppbv	97
50) 4-Methyl-2-Pentanone	5.774	43	4977	0.126	ppbv #	39
51) 2-Hexanone	7.458	43	7862	0.259	ppbv #	35
52) Tetrachloroethene	8.234	164	7221	0.498	ppbv #	85
53) Toluene	6.946	91	22160	0.487	ppbv	92
54) 1,2-Dibromoethane	7.661	107	10815	0.506	ppbv	85
56) 1,1,1,2-Tetrachloroethane	8.933	131	9870	0.500	ppbv #	1
57) Chlorobenzene	8.930	112	19334	0.530	ppbv #	88
58) Ethyl Benzene	9.361	91	30456	0.493	ppbv	97
59) m/p-Xylene	9.561	91	19790	0.399	ppbv #	1
60) o-Xylene	9.969	91	24142	0.491	ppbv	94
61) Styrene	9.879	104	10428	0.473	ppbv	99
62) Isopropylbenzene	10.549	105	38174	0.502	ppbv	99
63) 1,1,2,2-Tetrachloroethane	9.969	83	16637	0.537	ppbv	99
64) n-propylbenzene	10.995	120	8606	0.448	ppbv	85
65) tert-Butylbenzene	11.539	119	33232	0.479	ppbv	100
66) Benzyl Chloride	11.620	91	2397	0.558	ppbv #	96
67) sec-Butylbenzene	11.775	105	47437	0.497	ppbv	98
69) p-Isopropyltoluene	11.934	119	38770	0.493	ppbv	97
70) n-Butylbenzene	12.290	91	38146	0.489	ppbv	97
71) 2-Chlorotoluene	10.911	91	27534	0.489	ppbv	99
72) 4-Ethyltoluene	11.131	105	28313	0.481	ppbv	98
73) 1,3,5-Trimethylbenzene	11.209	105	25156	0.484	ppbv	95
74) 1,2,4-Trimethylbenzene	11.542	105	27444	0.488	ppbv	96
75) 1,3-Dichlorobenzene	11.617	146	17033	0.511	ppbv	99
76) 1,4-Dichlorobenzene	11.678	146	17963	0.551	ppbv	94
77) 1,2-Dichlorobenzene	11.953	146	17772	0.538	ppbv	98
78) Hexachloro-1,3-Butadiene	13.892	225	13201	0.487	ppbv	98
79) Naphthalene	13.523	128	32709	0.577	ppbv	98
80) Naphthalene,2-methyl-	14.468	142	15991	0.595	ppbv	96
81) 1,2,4-Trichlorobenzene	13.452	180	15628	0.565	ppbv	94

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
Data File : VL041888.D
Acq On : 14 Jan 2025 11:40
Operator : SY/MD
Sample : VSTDICC0.5
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Quant Time: Jan 14 21:19:53 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Tue Jan 14 16:31:18 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
 Data File : VL041889.D
 Acq On : 14 Jan 2025 12:55
 Operator : SY/MD
 Sample : VSTDICCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 01/15/2025
 Supervised By : Mahesh Dadoda 01/15/2025

Quant Time: Jan 14 21:20:11 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2

QLast Update : Tue Jan 14 16:31:18 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.797	49	152325	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.975	114	449256	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.894	117	400269	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	10.390	95	313194	9.934	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.300%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.502	85	197959	9.541	ppbv	100
3) Chlorodifluoromethane	1.479	51	202651	9.323	ppbv	100
4) Chloromethane	1.538	50	74977	9.608	ppbv	100
5) Vinyl Chloride	1.583	62	71006	8.984	ppbv	100
6) Bromomethane	1.674	94	34817	9.243	ppbv	100
7) Chloroethane	1.709	64	29349	9.544	ppbv	100
8) Dichlorotetrafluoroethane	1.557	85	166754	9.196	ppbv	100
9) Propene	1.486	41	86544	9.665	ppbv	100
10) Heptane	5.001	43	233062	9.738	ppbv	100
11) Trichlorofluoromethane	1.884	101	203374	9.423	ppbv	100
12) 1,1,2-Trichlorotrifluo...	2.146	101	160993	9.517	ppbv	100
13) Ethanol	1.725	45	4155	6.335	ppbv	98
14) Bromoethene	1.787	108	56447	9.114	ppbv	100
15) Acetone	1.842	43	151022	8.255	ppbv	100
16) 1,3-Butadiene	1.612	39	75244	9.163	ppbv	100
17) tert-Butyl alcohol	2.046	59	213109	9.464	ppbv	100
18) 1,1-Dichloroethene	2.039	96	69825	9.158	ppbv	100
19) Isopropyl Alcohol	1.890	45	94532	8.714	ppbv	100
20) Methylene Chloride	2.068	84	59427	8.219	ppbv	100
21) Allyl Chloride	2.101	41	120681	9.526	ppbv	100
22) trans-1,2-Dichloroethene	2.347	96	82326	9.568	ppbv	100
23) Vinyl Acetate	2.470	43	81885	10.281	ppbv	100
24) 1,1-Dichloroethane	2.418	63	154838	9.303	ppbv	100
25) Ethyl Acetate	2.845	43	471257	9.552	ppbv	100
26) Hexane	2.835	57	192009	9.841	ppbv	100
27) Carbon Disulfide	2.156	76	191567	9.921	ppbv	99
28) Methyl tert-Butyl Ether	2.450	73	117898	7.905	ppbv	100
29) Chloroform	2.858	83	291118	9.438	ppbv	100
30) Cyclohexane	3.868	84	164788	9.737	ppbv	100
31) cis-1,2-Dichloroethene	2.729	61	193774	9.432	ppbv	100
32) 1,1,1-Trichloroethane	3.379	97	290126	9.830	ppbv	100
34) 2-Butanone	2.567	43	270263	9.459	ppbv	100
35) Carbon Tetrachloride	3.777	117	291448	10.309	ppbv	100
36) Benzene	3.671	78	396344	9.619	ppbv	100
37) 1,2-Dichloroethane	3.230	62	221352	9.565	ppbv	100
38) Trichloroethene	4.564	130	159253	9.736	ppbv	100
39) 1,2-Dichloropropane	4.331	63	137090	9.484	ppbv	100
40) 1,4-Dioxane	4.606	88	66200	9.075	ppbv #	94
41) Tetrahydrofuran	3.065	42	156141	10.023	ppbv	100
42) Bromodichloromethane	4.509	83	307176	9.900	ppbv	100
43) Methyl Methacrylate	4.897	69	152001	9.930	ppbv	100
44) 2,2,4-Trimethylpentane	4.658	57	654395	9.819	ppbv	100
45) t-1,3-Dichloropropene	6.435	75	151920	10.603	ppbv	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
 Data File : VL041889.D
 Acq On : 14 Jan 2025 12:55
 Operator : SY/MD
 Sample : VSTDICCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 01/15/2025
 Supervised By :Mahesh Dadoda 01/15/2025

Quant Time: Jan 14 21:20:11 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2

QLast Update : Tue Jan 14 16:31:18 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.622	75	200330	10.649	ppbv	100
47) 1,1,2-Trichloroethane	6.600	97	149634	9.766	ppbv	100
48) Dibromochloromethane	7.402	129	245066	10.368	ppbv	100
49) Bromoform	9.496	173	206751	10.649	ppbv	100
50) 4-Methyl-2-Pentanone	5.778	43	374267	9.615	ppbv	100
51) 2-Hexanone	7.454	43	292941	9.775	ppbv #	100
52) Tetrachloroethene	8.241	164	131334	9.193	ppbv	100
53) Toluene	6.952	91	454085	10.116	ppbv	100
54) 1,2-Dibromoethane	7.668	107	203859	9.679	ppbv	100
56) 1,1,1,2-Tetrachloroethane	8.940	131	192449	9.637	ppbv	99
57) Chlorobenzene	8.937	112	339570	9.197	ppbv	100
58) Ethyl Benzene	9.367	91	620719	9.923	ppbv	100
59) m/p-Xylene	9.564	91	979297m	19.504	ppbv	
60) o-Xylene	9.979	91	490108	9.848	ppbv	100
61) Styrene	9.885	104	234901	10.522	ppbv	100
62) Isopropylbenzene	10.552	105	742261	9.638	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.976	83	300600	9.596	ppbv	100
64) n-propylbenzene	11.002	120	187706	9.646	ppbv	99
65) tert-Butylbenzene	11.542	119	670259	9.550	ppbv	100
66) Benzyl Chloride	11.626	91	46008	10.591	ppbv	100
67) sec-Butylbenzene	11.778	105	920046	9.521	ppbv	100
69) p-Isopropyltoluene	11.937	119	771465	9.694	ppbv	100
70) n-Butylbenzene	12.293	91	759785	9.627	ppbv	100
71) 2-Chlorotoluene	10.914	91	556170	9.763	ppbv	100
72) 4-Ethyltoluene	11.137	105	586667	9.855	ppbv	100
73) 1,3,5-Trimethylbenzene	11.215	105	505443	9.614	ppbv	100
74) 1,2,4-Trimethylbenzene	11.549	105	538665	9.461	ppbv	100
75) 1,3-Dichlorobenzene	11.620	146	310421	9.201	ppbv	100
76) 1,4-Dichlorobenzene	11.684	146	307758	9.324	ppbv	100
77) 1,2-Dichlorobenzene	11.960	146	303196	9.068	ppbv	100
78) Hexachloro-1,3-Butadiene	13.895	225	234457	8.543	ppbv	100
79) Naphthalene	13.526	128	502354	8.764	ppbv	100
80) Naphthalene,2-methyl-	14.471	142	185336	6.819	ppbv	100
81) 1,2,4-Trichlorobenzene	13.452	180	239317	8.553	ppbv	100

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

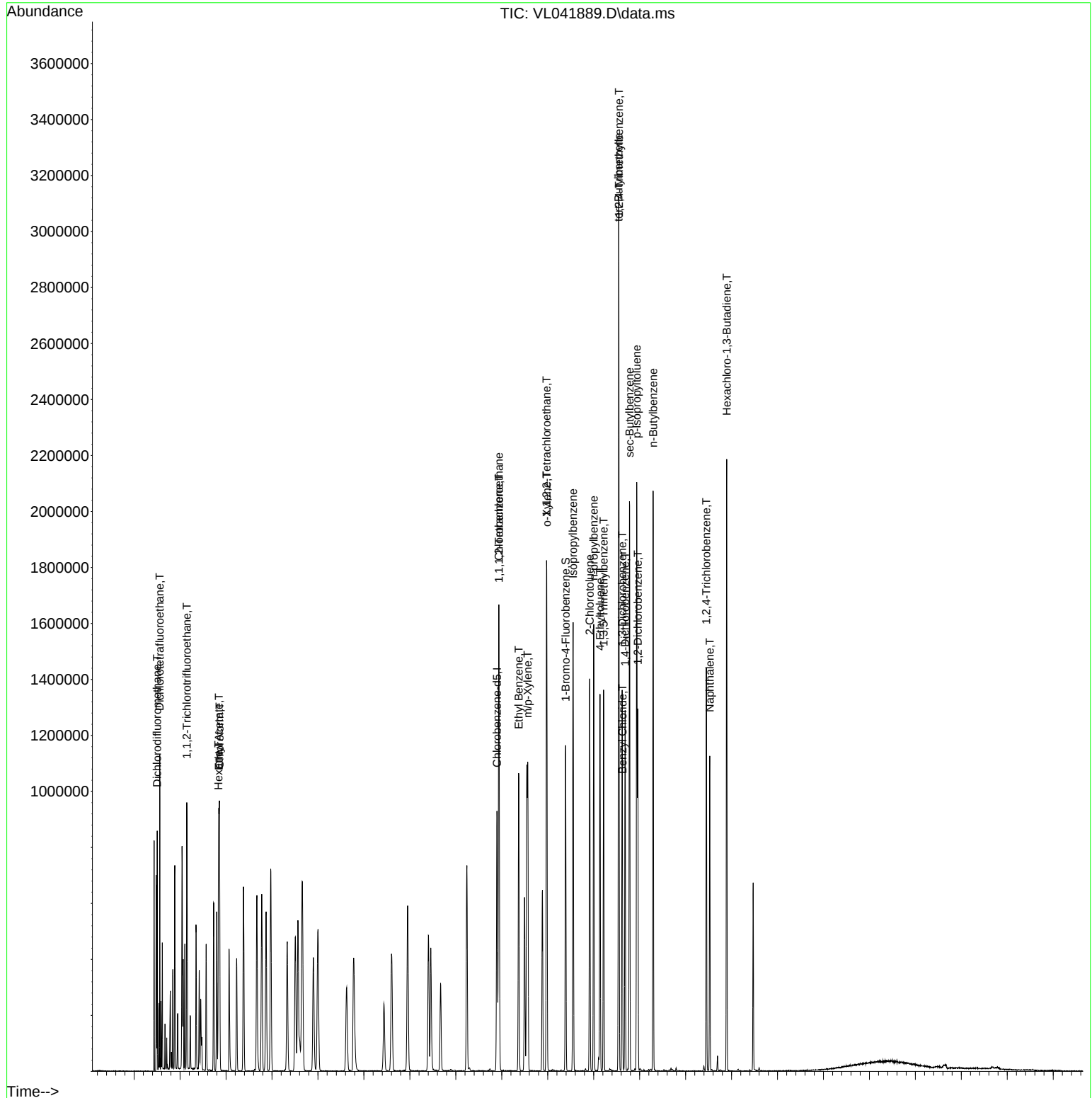
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
Data File : VL041889.D
Acq On : 14 Jan 2025 12:55
Operator : SY/MD
Sample : VSTDICCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

Quant Time: Jan 14 21:20:11 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Tue Jan 14 16:31:18 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
 Data File : VL041890.D
 Acq On : 14 Jan 2025 13:28
 Operator : SY/MD
 Sample : VSTDICC002
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC002

Quant Time: Jan 14 21:20:29 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2
 QLast Update : Tue Jan 14 16:31:18 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 01/15/2025
 Supervised By : Mahesh Dadoda 01/15/2025

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

Internal Standards						
1) Bromochloromethane	2.797	49	150761	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.971	114	452131	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.894	117	394865	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.390	95	313784	10.089	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	= 100.900%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.502	85	40991	1.996	ppbv	98
3) Chlorodifluoromethane	1.479	51	44207	2.055	ppbv	99
4) Chloromethane	1.538	50	15833	2.050	ppbv	93
5) Vinyl Chloride	1.583	62	15137	1.935	ppbv	99
6) Bromomethane	1.673	94	7486	2.008	ppbv	91
7) Chloroethane	1.709	64	6303	2.071	ppbv #	84
8) Dichlorotetrafluoroethane	1.557	85	36941	2.058	ppbv	99
9) Propene	1.486	41	18248	2.059	ppbv	95
10) Heptane	5.001	43	49302	2.081	ppbv	97
11) Trichlorofluoromethane	1.884	101	43266	2.025	ppbv	97
12) 1,1,2-Trichlorotrifluo...	2.146	101	35162	2.100	ppbv	97
13) Ethanol	1.725	45	1534	2.363	ppbv	84
14) Bromoethene	1.787	108	12163	1.984	ppbv #	95
15) Acetone	1.842	43	37867	2.091	ppbv	99
16) 1,3-Butadiene	1.612	39	16446	2.024	ppbv	100
17) tert-Butyl alcohol	2.049	59	45305	2.033	ppbv	99
18) 1,1-Dichloroethene	2.039	96	15508	2.055	ppbv	97
19) Isopropyl Alcohol	1.894	45	21530	2.005	ppbv	94
20) Methylene Chloride	2.068	84	14399	2.012	ppbv	95
21) Allyl Chloride	2.104	41	25533	2.036	ppbv	97
22) trans-1,2-Dichloroethene	2.350	96	17951	2.108	ppbv	83
23) Vinyl Acetate	2.470	43	16358	2.075	ppbv	99
24) 1,1-Dichloroethane	2.418	63	33175	2.014	ppbv	99
25) Ethyl Acetate	2.848	43	102475	2.099	ppbv	99
26) Hexane	2.835	57	41844	2.167	ppbv	99
27) Carbon Disulfide	2.156	76	39306	2.057	ppbv #	70
28) Methyl tert-Butyl Ether	2.454	73	30355	2.056	ppbv	96
29) Chloroform	2.858	83	63457	2.079	ppbv	94
30) Cyclohexane	3.874	84	34518	2.061	ppbv	97
31) cis-1,2-Dichloroethene	2.729	61	41921	2.062	ppbv	89
32) 1,1,1-Trichloroethane	3.382	97	58965	2.019	ppbv	98
34) 2-Butanone	2.570	43	61381	2.135	ppbv	99
35) Carbon Tetrachloride	3.777	117	59430	2.089	ppbv	95
36) Benzene	3.670	78	85859	2.070	ppbv	96
37) 1,2-Dichloroethane	3.230	62	46786	2.009	ppbv	100
38) Trichloroethene	4.564	130	33773	2.052	ppbv	98
39) 1,2-Dichloropropane	4.334	63	29723	2.043	ppbv	96
40) 1,4-Dioxane	4.619	88	14566m	1.984	ppbv	
41) Tetrahydrofuran	3.072	42	32358	2.064	ppbv	96
42) Bromodichloromethane	4.509	83	63611	2.037	ppbv	99
43) Methyl Methacrylate	4.900	69	31519	2.046	ppbv	99
44) 2,2,4-Trimethylpentane	4.658	57	141602	2.111	ppbv	100
45) t-1,3-Dichloropropene	6.435	75	28818	1.999	ppbv	97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
 Data File : VL041890.D
 Acq On : 14 Jan 2025 13:28
 Operator : SY/MD
 Sample : VSTDICC002
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC002

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 01/15/2025
 Supervised By : Mahesh Dadoda 01/15/2025

Quant Time: Jan 14 21:20:29 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2

QLast Update : Tue Jan 14 16:31:18 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.625	75	39668	2.095	ppbv	94
47) 1,1,2-Trichloroethane	6.600	97	31694m	2.055	ppbv	
48) Dibromochloromethane	7.406	129	48894	2.055	ppbv	99
49) Bromoform	9.496	173	39710	2.032	ppbv	99
50) 4-Methyl-2-Pentanone	5.784	43	81330	2.076	ppbv	98
51) 2-Hexanone	7.457	43	66831	2.216	ppbv #	98
52) Tetrachloroethene	8.241	164	29814	2.074	ppbv	94
53) Toluene	6.952	91	94741	2.097	ppbv	98
54) 1,2-Dibromoethane	7.671	107	44636	2.106	ppbv	96
56) 1,1,1,2-Tetrachloroethane	8.940	131	40249	2.043	ppbv	93
57) Chlorobenzene	8.933	112	77180	2.119	ppbv	94
58) Ethyl Benzene	9.367	91	130554	2.116	ppbv	98
59) m/p-Xylene	9.561	91	214076m	4.322	ppbv	
60) o-Xylene	9.975	91	106458	2.168	ppbv	99
61) Styrene	9.885	104	45490	2.065	ppbv	99
62) Isopropylbenzene	10.552	105	163135	2.147	ppbv	97
63) 1,1,2,2-Tetrachloroethane	9.975	83	67775	2.193	ppbv	99
64) n-propylbenzene	11.001	120	41184	2.145	ppbv	99
65) tert-Butylbenzene	11.542	119	151534	2.189	ppbv	97
66) Benzyl Chloride	11.626	91	8925	2.083	ppbv	97
67) sec-Butylbenzene	11.778	105	211759	2.221	ppbv	99
69) p-Isopropyltoluene	11.937	119	178172	2.270	ppbv	100
70) n-Butylbenzene	12.293	91	174217	2.238	ppbv	99
71) 2-Chlorotoluene	10.914	91	121418	2.161	ppbv	100
72) 4-Ethyltoluene	11.137	105	127115	2.164	ppbv	100
73) 1,3,5-Trimethylbenzene	11.215	105	114342	2.205	ppbv	99
74) 1,2,4-Trimethylbenzene	11.548	105	126939	2.260	ppbv #	89
75) 1,3-Dichlorobenzene	11.616	146	71332	2.143	ppbv	98
76) 1,4-Dichlorobenzene	11.684	146	70219	2.156	ppbv	99
77) 1,2-Dichlorobenzene	11.960	146	71818	2.177	ppbv	100
78) Hexachloro-1,3-Butadiene	13.892	225	60984	2.253	ppbv	99
79) Naphthalene	13.526	128	153268	2.710	ppbv	98
80) Naphthalene,2-methyl-	14.471	142	90910	3.391	ppbv	99
81) 1,2,4-Trichlorobenzene	13.452	180	64653	2.342	ppbv	98

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
 Data File : VL041891.D
 Acq On : 14 Jan 2025 13:59
 Operator : SY/MD
 Sample : VSTDICC001
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC001

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 01/15/2025
 Supervised By : Mahesh Dadoda 01/15/2025

Quant Time: Jan 14 21:20:45 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2

QLast Update : Tue Jan 14 16:31:18 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.797	49	151226	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.972	114	453418	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.895	117	393836	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.387 95 312013 10.058 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 100.600%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.502	85	21262	1.032	ppbv	95
3) Chlorodifluoromethane	1.479	51	23396	1.084	ppbv	100
4) Chloromethane	1.534	50	7546	0.974	ppbv	94
5) Vinyl Chloride	1.583	62	8031	1.023	ppbv	97
6) Bromomethane	1.674	94	4139	1.107	ppbv #	81
7) Chloroethane	1.709	64	3093	1.013	ppbv	92
8) Dichlorotetrafluoroethane	1.557	85	18122	1.007	ppbv	100
9) Propene	1.486	41	8719	0.981	ppbv	93
10) Heptane	5.001	43	24438	1.029	ppbv	96
11) Trichlorofluoromethane	1.884	101	21425	1.000	ppbv	98
12) 1,1,2-Trichlorotrifluo...	2.143	101	17187	1.023	ppbv	95
13) Ethanol	1.725	45	650	0.998	ppbv #	29
14) Bromoethene	1.787	108	6736	1.096	ppbv #	88
15) Acetone	1.842	43	19681	1.084	ppbv	95
16) 1,3-Butadiene	1.612	39	8901	1.092	ppbv	98
17) tert-Butyl alcohol	2.049	59	23571	1.054	ppbv	95
18) 1,1-Dichloroethene	2.039	96	7819m	1.033	ppbv	
19) Isopropyl Alcohol	1.894	45	11054	1.026	ppbv #	32
20) Methylene Chloride	2.065	84	7608	1.060	ppbv #	89
21) Allyl Chloride	2.101	41	12451	0.990	ppbv	98
22) trans-1,2-Dichloroethene	2.347	96	8819	1.032	ppbv	96
23) Vinyl Acetate	2.470	43	7181	0.908	ppbv #	93
24) 1,1-Dichloroethane	2.415	63	16623	1.006	ppbv	97
25) Ethyl Acetate	2.845	43	50690	1.035	ppbv	98
26) Hexane	2.836	57	18893	0.975	ppbv	86
27) Carbon Disulfide	2.156	76	18993	0.991	ppbv #	23
28) Methyl tert-Butyl Ether	2.450	73	17955	1.213	ppbv	98
29) Chloroform	2.858	83	31155	1.017	ppbv	97
30) Cyclohexane	3.871	84	18048	1.074	ppbv	96
31) cis-1,2-Dichloroethene	2.729	61	21124	1.036	ppbv	99
32) 1,1,1-Trichloroethane	3.383	97	30396	1.037	ppbv	98
34) 2-Butanone	2.570	43	29280	1.015	ppbv	99
35) Carbon Tetrachloride	3.774	117	27946	0.979	ppbv	96
36) Benzene	3.671	78	43023	1.035	ppbv	93
37) 1,2-Dichloroethane	3.230	62	23402	1.002	ppbv	98
38) Trichloroethene	4.564	130	16954m	1.027	ppbv	
39) 1,2-Dichloropropane	4.331	63	14570	0.999	ppbv	98
40) 1,4-Dioxane	4.613	88	7345m	0.998	ppbv	
41) Tetrahydrofuran	3.075	42	15580m	0.991	ppbv	
42) Bromodichloromethane	4.509	83	29893m	0.955	ppbv	
43) Methyl Methacrylate	4.901	69	15222	0.985	ppbv	95
44) 2,2,4-Trimethylpentane	4.661	57	68050	1.012	ppbv	98
45) t-1,3-Dichloropropene	6.438	75	13220	0.914	ppbv	92

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
 Data File : VL041891.D
 Acq On : 14 Jan 2025 13:59
 Operator : SY/MD
 Sample : VSTDICC001
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC001

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 01/15/2025
 Supervised By : Mahesh Dadoda 01/15/2025

Quant Time: Jan 14 21:20:45 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2

QLast Update : Tue Jan 14 16:31:18 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.626	75	17749	0.935	ppbv	97
47) 1,1,2-Trichloroethane	6.603	97	15658m	1.013	ppbv	
48) Dibromochloromethane	7.402	129	22169	0.929	ppbv	100
49) Bromoform	9.497	173	17876	0.912	ppbv	100
50) 4-Methyl-2-Pentanone	5.787	43	39436m	1.004	ppbv	
51) 2-Hexanone	7.464	43	28999	0.959	ppbv #	95
52) Tetrachloroethene	8.244	164	14903	1.034	ppbv #	80
53) Toluene	6.956	91	45140m	0.996	ppbv	
54) 1,2-Dibromoethane	7.668	107	21202	0.997	ppbv	96
56) 1,1,1,2-Tetrachloroethane	8.937	131	20255	1.031	ppbv	94
57) Chlorobenzene	8.933	112	38141	1.050	ppbv	98
58) Ethyl Benzene	9.367	91	61537	1.000	ppbv	99
59) m/p-Xylene	9.561	91	99618m	2.016	ppbv	
60) o-Xylene	9.972	91	48888	0.998	ppbv	98
61) Styrene	9.882	104	20285	0.923	ppbv	99
62) Isopropylbenzene	10.549	105	75801	1.000	ppbv	98
63) 1,1,2,2-Tetrachloroethane	9.972	83	33289	1.080	ppbv	97
64) n-propylbenzene	11.002	120	19511	1.019	ppbv	99
65) tert-Butylbenzene	11.539	119	70183	1.016	ppbv	98
66) Benzyl Chloride	11.626	91	3681m	0.861	ppbv	
67) sec-Butylbenzene	11.778	105	96749	1.018	ppbv	97
69) p-Isopropyltoluene	11.937	119	79283	1.013	ppbv	98
70) n-Butylbenzene	12.290	91	80664	1.039	ppbv	99
71) 2-Chlorotoluene	10.911	91	55540	0.991	ppbv	99
72) 4-Ethyltoluene	11.134	105	56973	0.973	ppbv	97
73) 1,3,5-Trimethylbenzene	11.215	105	53550	1.035	ppbv	97
74) 1,2,4-Trimethylbenzene	11.545	105	57352	1.024	ppbv	96
75) 1,3-Dichlorobenzene	11.617	146	34810	1.049	ppbv	99
76) 1,4-Dichlorobenzene	11.681	146	33822	1.041	ppbv	97
77) 1,2-Dichlorobenzene	11.960	146	35516	1.080	ppbv	98
78) Hexachloro-1,3-Butadiene	13.892	225	29210	1.082	ppbv	99
79) Naphthalene	13.523	128	66232	1.174	ppbv	98
80) Naphthalene,2-methyl-	14.468	142	28506	1.066	ppbv	98
81) 1,2,4-Trichlorobenzene	13.452	180	29053	1.055	ppbv	99

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

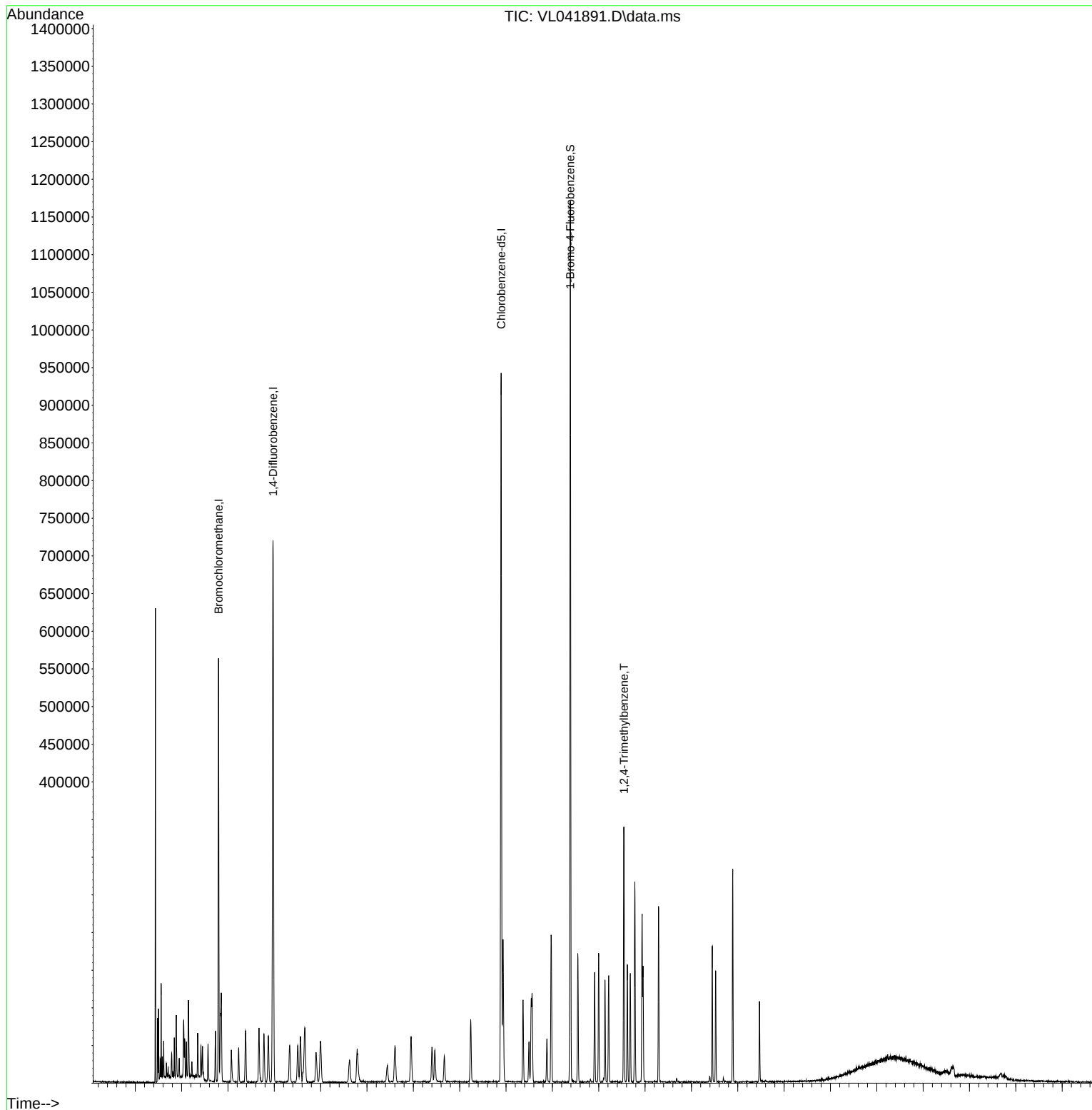
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
Data File : VL041891.D
Acq On : 14 Jan 2025 13:59
Operator : SY/MD
Sample : VSTDICC001
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

Quant Time: Jan 14 21:20:45 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Tue Jan 14 16:31:18 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
 Data File : VL041892.D
 Acq On : 14 Jan 2025 14:30
 Operator : SY/MD
 Sample : VSTDICC0.5
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC0.5

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 01/15/2025
 Supervised By : Mahesh Dadoda 01/15/2025

Quant Time: Jan 14 21:21:01 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2

QLast Update : Tue Jan 14 16:31:18 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.790	49	146186	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.968	114	430874	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.891	117	379402	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	10.383	95	297462	9.954	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.500%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.499	85	10599	0.532	ppbv	99
3) Chlorodifluoromethane	1.476	51	10582	0.507	ppbv	98
4) Chloromethane	1.534	50	3990	0.533	ppbv	98
5) Vinyl Chloride	1.580	62	4097	0.540	ppbv	94
6) Bromomethane	1.670	94	1852	0.512	ppbv #	78
7) Chloroethane	1.706	64	1532	0.519	ppbv #	77
8) Dichlorotetrafluoroethane	1.557	85	9372	0.539	ppbv	95
9) Propene	1.486	41	4690	0.546	ppbv	85
10) Heptane	4.988	43	11230	0.489	ppbv	95
11) Trichlorofluoromethane	1.881	101	10873	0.525	ppbv	99
12) 1,1,2-Trichlorotrifluo...	2.143	101	8027	0.494	ppbv	90
13) Ethanol	1.725	45	478m	0.759	ppbv	
14) Bromoethene	1.784	108	3071	0.517	ppbv #	94
15) Acetone	1.839	43	10273	0.585	ppbv	99
16) 1,3-Butadiene	1.612	39	4038	0.512	ppbv	99
17) tert-Butyl alcohol	2.046	59	11158	0.516	ppbv #	94
18) 1,1-Dichloroethene	2.036	96	3803	0.520	ppbv	95
19) Isopropyl Alcohol	1.891	45	6317	0.607	ppbv #	32
20) Methylene Chloride	2.065	84	4286	0.618	ppbv	93
21) Allyl Chloride	2.101	41	6553	0.539	ppbv	96
22) trans-1,2-Dichloroethene	2.347	96	4015	0.486	ppbv	89
23) Vinyl Acetate	2.467	43	6381m	0.835	ppbv	
24) 1,1-Dichloroethane	2.415	63	8512	0.533	ppbv	97
25) Ethyl Acetate	2.845	43	23529	0.497	ppbv	97
26) Hexane	2.829	57	9246m	0.494	ppbv	
27) Carbon Disulfide	2.153	76	8847	0.477	ppbv #	1
28) Methyl tert-Butyl Ether	2.447	73	7621	0.532	ppbv	97
29) Chloroform	2.855	83	15360	0.519	ppbv	92
30) Cyclohexane	3.871	84	7579	0.467	ppbv	92
31) cis-1,2-Dichloroethene	2.726	61	10275	0.521	ppbv #	89
32) 1,1,1-Trichloroethane	3.379	97	14198	0.501	ppbv	98
34) 2-Butanone	2.567	43	13981	0.510	ppbv	94
35) Carbon Tetrachloride	3.774	117	12590	0.464	ppbv	89
36) Benzene	3.667	78	19954	0.505	ppbv	95
37) 1,2-Dichloroethane	3.227	62	11613	0.523	ppbv	97
38) Trichloroethene	4.561	130	8199	0.523	ppbv #	89
39) 1,2-Dichloropropane	4.324	63	7526m	0.543	ppbv	
40) 1,4-Dioxane	4.616	88	4031m	0.576	ppbv	
41) Tetrahydrofuran	3.072	42	7183	0.481	ppbv	94
42) Bromodichloromethane	4.499	83	15081m	0.507	ppbv	
43) Methyl Methacrylate	4.891	69	7332m	0.499	ppbv	
44) 2,2,4-Trimethylpentane	4.645	57	31243	0.489	ppbv	95
45) t-1,3-Dichloropropene	6.428	75	6465m	0.470	ppbv	

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
 Data File : VL041892.D
 Acq On : 14 Jan 2025 14:30
 Operator : SY/MD
 Sample : VSTDICC0.5
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC0.5

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 01/15/2025
 Supervised By :Mahesh Dadoda 01/15/2025

Quant Time: Jan 14 21:21:01 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2

QLast Update : Tue Jan 14 16:31:18 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.609	75	7986m	0.443	ppbv	
47) 1,1,2-Trichloroethane	6.597	97	7324	0.498	ppbv #	84
48) Dibromochloromethane	7.393	129	10548m	0.465	ppbv	
49) Bromoform	9.493	173	8162	0.438	ppbv	97
50) 4-Methyl-2-Pentanone	5.794	43	19221m	0.515	ppbv	
51) 2-Hexanone	7.454	43	13390	0.466	ppbv #	97
52) Tetrachloroethene	8.238	164	6821m	0.498	ppbv	
53) Toluene	6.946	91	20118	0.467	ppbv	96
54) 1,2-Dibromoethane	7.665	107	10511	0.520	ppbv	89
56) 1,1,1,2-Tetrachloroethane	8.930	131	9524	0.503	ppbv #	1
57) Chlorobenzene	8.930	112	18701	0.534	ppbv #	90
58) Ethyl Benzene	9.364	91	28584	0.482	ppbv #	88
59) m/p-Xylene	9.558	91	45003m	0.946	ppbv	
60) o-Xylene	9.972	91	22370	0.474	ppbv	97
61) Styrene	9.879	104	9788	0.463	ppbv	99
62) Isopropylbenzene	10.545	105	36561	0.501	ppbv	98
63) 1,1,2,2-Tetrachloroethane	9.969	83	15485	0.521	ppbv	98
64) n-propylbenzene	10.995	120	9128	0.495	ppbv	93
65) tert-Butylbenzene	11.536	119	33122	0.498	ppbv	98
66) Benzyl Chloride	11.620	91	1935	0.470	ppbv	99
67) sec-Butylbenzene	11.775	105	45326	0.495	ppbv	98
69) p-Isopropyltoluene	11.931	119	35136	0.466	ppbv	98
70) n-Butylbenzene	12.287	91	35409	0.473	ppbv	96
71) 2-Chlorotoluene	10.908	91	26436	0.490	ppbv	99
72) 4-Ethyltoluene	11.131	105	27363	0.485	ppbv	97
73) 1,3,5-Trimethylbenzene	11.209	105	23183	0.465	ppbv	93
74) 1,2,4-Trimethylbenzene	11.545	105	25777	0.478	ppbv	89
75) 1,3-Dichlorobenzene	11.610	146	16708	0.522	ppbv	100
76) 1,4-Dichlorobenzene	11.678	146	15738	0.503	ppbv	96
77) 1,2-Dichlorobenzene	11.953	146	16364	0.516	ppbv	93
78) Hexachloro-1,3-Butadiene	13.892	225	14162	0.544	ppbv	96
79) Naphthalene	13.520	128	28052	0.516	ppbv	98
80) Naphthalene,2-methyl-	14.468	142	10859	0.422	ppbv	97
81) 1,2,4-Trichlorobenzene	13.445	180	14136	0.533	ppbv	95

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

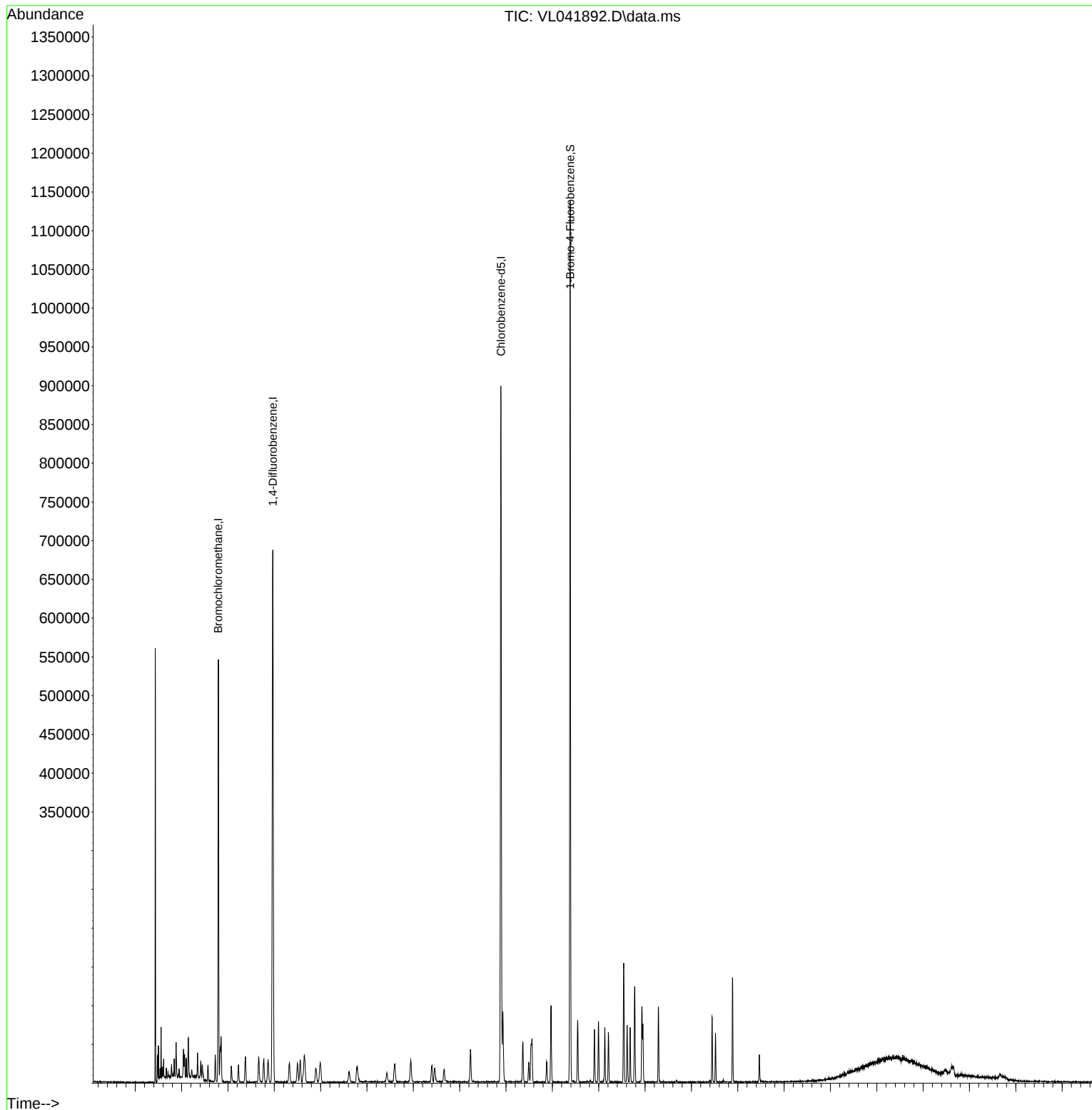
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
Data File : VL041892.D
Acq On : 14 Jan 2025 14:30
Operator : SY/MD
Sample : VSTDICC0.5
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations
APPROVED

Reviewed By : Semsettin Yesilyurt 01/15/2025
Supervised By : Mahesh Dadoda 01/15/2025

Quant Time: Jan 14 21:21:01 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Tue Jan 14 16:31:18 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
 Data File : VL041893.D
 Acq On : 14 Jan 2025 15:01
 Operator : SY/MD
 Sample : VSTDICC0.1
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC0.1

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 01/15/2025
 Supervised By :Mahesh Dadoda 01/15/2025

Quant Time: Jan 14 22:42:51 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 2
 QLast Update : Tue Jan 14 16:31:18 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.793	49	143362	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.968	114	425675	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.891	117	372545	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.387	95	292283	9.961	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.600%
Target Compounds						
						Qvalue
5) Vinyl Chloride	1.583	62	828	0.111	ppbv	96
32) 1,1,1-Trichloroethane	3.383	97	2640m	0.095	ppbv	
35) Carbon Tetrachloride	3.768	117	2587m	0.097	ppbv	
38) Trichloroethene	4.557	130	1816m	0.117	ppbv	
52) Tetrachloroethene	8.234	164	1480m	0.109	ppbv	
54) 1,2-Dibromoethane	7.668	107	1872m	0.094	ppbv	
63) 1,1,2,2-Tetrachloroethane	9.976	83	2816	0.097	ppbv	95
79) Naphthalene	13.520	128	3643	0.068	ppbv #	96

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

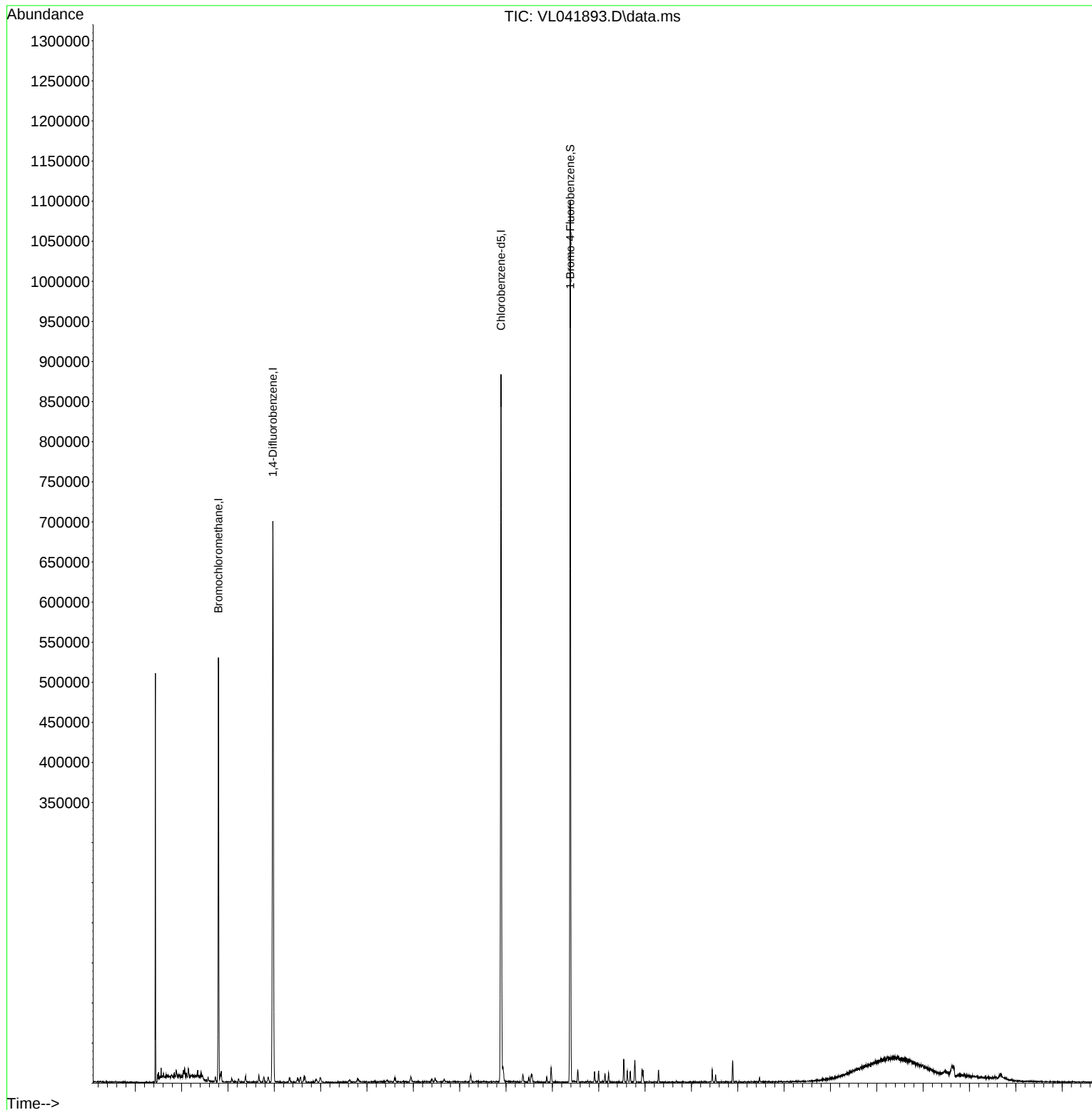
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
Data File : VL041893.D
Acq On : 14 Jan 2025 15:01
Operator : SY/MD
Sample : VSTDICC0.1
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Quant Time: Jan 14 22:42:51 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Tue Jan 14 16:31:18 2025
Response via : Initial Calibration

Manual Integrations
APPROVED

Reviewed By : Semsettin Yesilyurt 01/15/2025
Supervised By : Mahesh Dadoda 01/15/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
 Data File : VL041894.D
 Acq On : 14 Jan 2025 15:32
 Operator : SY/MD
 Sample : VSTDICC0.03
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC0.03

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 01/15/2025
 Supervised By :Mahesh Dadoda 01/15/2025

Quant Time: Jan 14 21:21:32 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2
 QLast Update : Tue Jan 14 16:31:18 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.793	49	141659	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.972	114	424686	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.891	117	367402	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.387	95	287792	9.945	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.500%
Target Compounds						
52) Tetrachloroethene	8.250	164	408m	0.030	ppbv	Qvalue

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

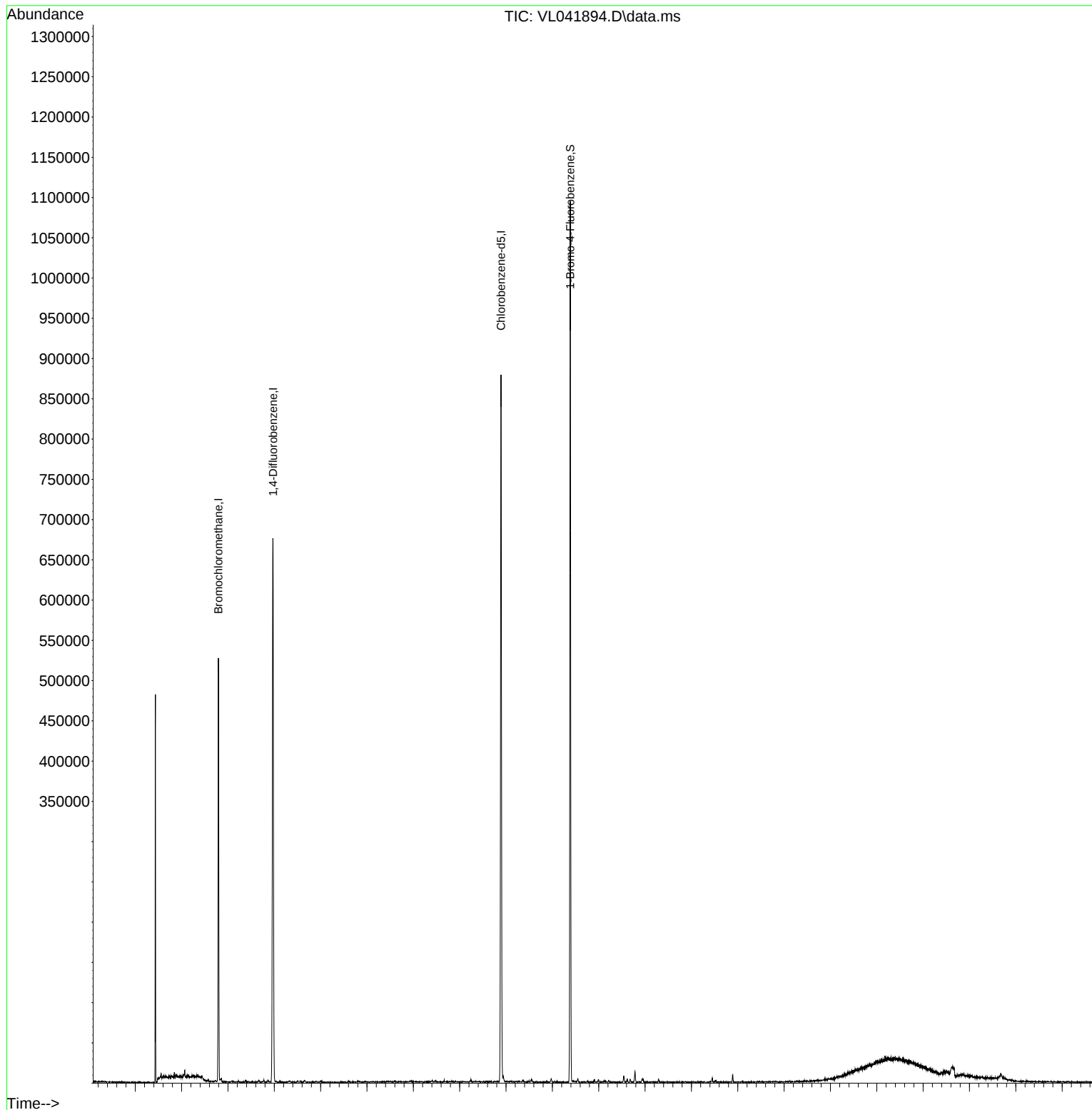
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
Data File : VL041894.D
Acq On : 14 Jan 2025 15:32
Operator : SY/MD
Sample : VSTDICC0.03
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Quant Time: Jan 14 21:21:32 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Tue Jan 14 16:31:18 2025
Response via : Initial Calibration

Manual Integrations
APPROVED

Reviewed By : Semsettin Yesilyurt 01/15/2025
Supervised By : Mahesh Dadoda 01/15/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
 Data File : VL041895.D
 Acq On : 14 Jan 2025 16:05
 Operator : SY/MD
 Sample : VSTDICC015
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC015

Quant Time: Jan 14 21:21:42 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2
 QLast Update : Tue Jan 14 16:31:18 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 01/15/2025
 Supervised By : Mahesh Dadoda 01/15/2025

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

Internal Standards						
1) Bromochloromethane	2.793	49	141652	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.968	114	419859	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.895	117	383799	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.387	95	304042	10.058	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	= 100.600%	
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.502	85	275248	14.266	ppbv	100
3) Chlorodifluoromethane	1.479	51	285437	14.121	ppbv	98
4) Chloromethane	1.534	50	106071	14.617	ppbv	98
5) Vinyl Chloride	1.583	62	104404	14.204	ppbv	98
6) Bromomethane	1.670	94	49415	14.106	ppbv	91
7) Chloroethane	1.709	64	41130	14.383	ppbv	100
8) Dichlorotetrafluoroethane	1.557	85	244666	14.510	ppbv	100
9) Propene	1.486	41	116343	13.972	ppbv	99
10) Heptane	4.998	43	326897	14.688	ppbv	98
11) Trichlorofluoromethane	1.881	101	299656	14.930	ppbv	97
12) 1,1,2-Trichlorotrifluo...	2.143	101	232607	14.787	ppbv	100
13) Ethanol	1.725	45	6109	10.016	ppbv	83
14) Bromoethene	1.784	108	83586	14.513	ppbv	98
15) Acetone	1.839	43	223353	13.128	ppbv	99
16) 1,3-Butadiene	1.612	39	109420	14.329	ppbv	99
17) tert-Butyl alcohol	2.046	59	298424	14.252	ppbv	99
18) 1,1-Dichloroethene	2.039	96	104645	14.759	ppbv	92
19) Isopropyl Alcohol	1.890	45	134050	13.288	ppbv	98
20) Methylene Chloride	2.065	84	88425	13.151	ppbv	98
21) Allyl Chloride	2.101	41	169875	14.419	ppbv	96
22) trans-1,2-Dichloroethene	2.347	96	118169	14.768	ppbv	97
23) Vinyl Acetate	2.470	43	116632	15.747	ppbv	98
24) 1,1-Dichloroethane	2.415	63	230015	14.862	ppbv	99
25) Ethyl Acetate	2.842	43	665170	14.499	ppbv	100
26) Hexane	2.836	57	263948	14.547	ppbv	97
27) Carbon Disulfide	2.156	76	278476	15.509	ppbv	99
28) Methyl tert-Butyl Ether	2.447	73	187986	13.555	ppbv	98
29) Chloroform	2.858	83	413733	14.424	ppbv	98
30) Cyclohexane	3.868	84	233398	14.830	ppbv	99
31) cis-1,2-Dichloroethene	2.729	61	271739	14.223	ppbv	94
32) 1,1,1-Trichloroethane	3.379	97	419117	15.271	ppbv	99
34) 2-Butanone	2.564	43	380813	14.262	ppbv	99
35) Carbon Tetrachloride	3.774	117	426619	16.146	ppbv	97
36) Benzene	3.667	78	553665	14.378	ppbv	100
37) 1,2-Dichloroethane	3.227	62	321362	14.859	ppbv	99
38) Trichloroethene	4.564	130	222328	14.543	ppbv	98
39) 1,2-Dichloropropane	4.328	63	191532	14.179	ppbv	98
40) 1,4-Dioxane	4.596	88	97521	14.305	ppbv #	93
41) Tetrahydrofuran	3.062	42	217707	14.953	ppbv	99
42) Bromodichloromethane	4.502	83	445130	15.351	ppbv	95
43) Methyl Methacrylate	4.894	69	214564	14.999	ppbv	99
44) 2,2,4-Trimethylpentane	4.655	57	909437	14.601	ppbv	100
45) t-1,3-Dichloropropene	6.435	75	218001	16.281	ppbv	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
 Data File : VL041895.D
 Acq On : 14 Jan 2025 16:05
 Operator : SY/MD
 Sample : VSTDIC015
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 01/15/2025
 Supervised By : Mahesh Dadoda 01/15/2025

Quant Time: Jan 14 21:21:42 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2

QLast Update : Tue Jan 14 16:31:18 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.619	75	281492	16.011	ppbv	98
47) 1,1,2-Trichloroethane	6.597	97	211658	14.782	ppbv	95
48) Dibromochloromethane	7.402	129	356392	16.134	ppbv	100
49) Bromoform	9.493	173	307617	16.953	ppbv	99
50) 4-Methyl-2-Pentanone	5.774	43	533053	14.653	ppbv	99
51) 2-Hexanone	7.451	43	430297	15.363	ppbv #	97
52) Tetrachloroethene	8.237	164	183208	13.721	ppbv	96
53) Toluene	6.949	91	634515	15.126	ppbv	99
54) 1,2-Dibromoethane	7.665	107	295967	15.036	ppbv	93
56) 1,1,1,2-Tetrachloroethane	8.937	131	280809	14.665	ppbv	98
57) Chlorobenzene	8.933	112	479092	13.533	ppbv	99
58) Ethyl Benzene	9.367	91	887072	14.789	ppbv	100
59) m/p-Xylene	9.565	91	1420585m	29.506	ppbv	
60) o-Xylene	9.976	91	704577	14.765	ppbv	100
61) Styrene	9.882	104	342490	15.999	ppbv	99
62) Isopropylbenzene	10.548	105	1063809	14.406	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.976	83	426347	14.194	ppbv	100
64) n-propylbenzene	10.998	120	266972	14.308	ppbv	100
65) tert-Butylbenzene	11.542	119	947297	14.077	ppbv	98
66) Benzyl Chloride	11.626	91	68623	16.475	ppbv	98
67) sec-Butylbenzene	11.778	105	1292858	13.952	ppbv	100
69) p-Isopropyltoluene	11.937	119	1089109	14.273	ppbv	99
70) n-Butylbenzene	12.290	91	1059002	13.994	ppbv	99
71) 2-Chlorotoluene	10.911	91	797555	14.601	ppbv	100
72) 4-Ethyltoluene	11.134	105	847451	14.846	ppbv	99
73) 1,3,5-Trimethylbenzene	11.215	105	733759	14.556	ppbv	96
74) 1,2,4-Trimethylbenzene	11.549	105	773569	14.170	ppbv	92
75) 1,3-Dichlorobenzene	11.620	146	443828	13.720	ppbv	99
76) 1,4-Dichlorobenzene	11.681	146	447164	14.129	ppbv	99
77) 1,2-Dichlorobenzene	11.956	146	429118	13.385	ppbv	99
78) Hexachloro-1,3-Butadiene	13.892	225	335016	12.731	ppbv	100
79) Naphthalene	13.523	128	724573	13.183	ppbv	99
80) Naphthalene,2-methyl-	14.468	142	278955	10.704	ppbv	99
81) 1,2,4-Trichlorobenzene	13.452	180	342977	12.784	ppbv	98

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

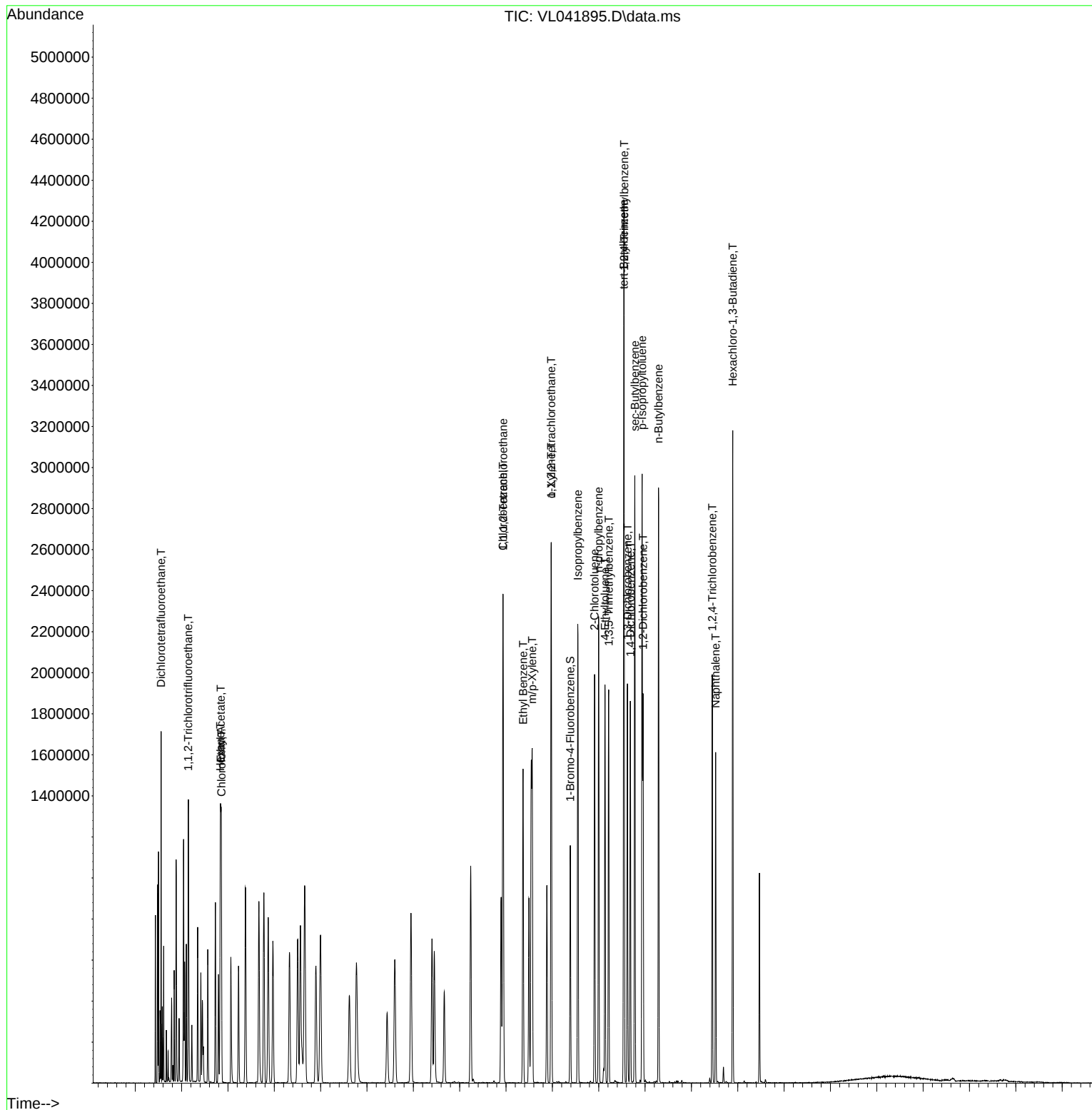
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Data File : VL041895.D
Acq On : 14 Jan 2025 16:05
Operator : SY/MD
Sample : VSTDIC015
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

Quant Time: Jan 14 21:21:42 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Tue Jan 14 16:31:18 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
 Data File : VL041896.D
 Acq On : 14 Jan 2025 17:33
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICSVVL011425

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 01/15/2025
 Supervised By : Mahesh Dadoda 01/15/2025

Quant Time: Jan 15 03:23:15 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2

QLast Update : Tue Jan 14 23:15:42 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.793	49	141664	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.968	114	417936	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.891	117	373391	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.387 95 298000 10.133 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 101.300%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.502	85	190925	9.894	ppbv	97
3) Chlorodifluoromethane	1.479	51	200455	9.916	ppbv	100
4) Chloromethane	1.534	50	71767	9.889	ppbv	95
5) Vinyl Chloride	1.583	62	71974	9.791	ppbv	94
6) Bromomethane	1.670	94	33594	9.589	ppbv	96
7) Chloroethane	1.706	64	29553	10.333	ppbv	100
8) Dichlorotetrafluoroethane	1.557	85	163783	9.712	ppbv	99
9) Propene	1.486	41	82320	9.886	ppbv	99
10) Heptane	4.998	43	225230	10.119	ppbv	99
11) Trichlorofluoromethane	1.881	101	198523	9.890	ppbv	96
12) 1,1,2-Trichlorotrifluoro...	2.143	101	159862	10.162	ppbv	100
13) Ethanol	1.725	45	3780	6.197	ppbv	97
14) Bromoethene	1.784	108	57260	9.941	ppbv	98
15) Acetone	1.839	43	150112	8.822	ppbv	98
16) 1,3-Butadiene	1.612	39	73640	9.643	ppbv	100
17) tert-Butyl alcohol	2.046	59	204358	9.758	ppbv	98
18) 1,1-Dichloroethene	2.039	96	71011	10.015	ppbv	96
19) Isopropyl Alcohol	1.890	45	93592	9.277	ppbv	97
20) Methylene Chloride	2.065	84	60115	8.940	ppbv	97
21) Allyl Chloride	2.101	41	118907	10.092	ppbv	97
22) trans-1,2-Dichloroethene	2.347	96	77379	9.669	ppbv	96
23) Vinyl Acetate	2.470	43	80428	9.536	ppbv #	95
24) 1,1-Dichloroethane	2.415	63	155440	10.042	ppbv	98
25) Ethyl Acetate	2.842	43	458484	9.993	ppbv	100
26) Hexane	2.832	57	184436	10.164	ppbv	99
27) Carbon Disulfide	2.156	76	186668	10.395	ppbv	98
28) Methyl tert-Butyl Ether	2.447	73	112489	8.110	ppbv	99
29) Chloroform	2.855	83	282467	9.847	ppbv	99
30) Cyclohexane	3.865	84	159296	10.120	ppbv	99
31) cis-1,2-Dichloroethene	2.729	61	187012	9.787	ppbv	97
32) 1,1,1-Trichloroethane	3.376	97	284661	10.371	ppbv	99
34) 2-Butanone	2.564	43	261536	9.840	ppbv	99
35) Carbon Tetrachloride	3.771	117	285391	10.871	ppbv	96
36) Benzene	3.667	78	374271	9.764	ppbv	99
37) 1,2-Dichloroethane	3.227	62	214545	9.966	ppbv	100
38) Trichloroethene	4.564	130	153255	10.075	ppbv	95
39) 1,2-Dichloropropane	4.324	63	130483	9.704	ppbv	97
40) 1,4-Dioxane	4.599	88	63736	9.386	ppbv #	99
41) Tetrahydrofuran	3.062	42	148132	10.255	ppbv	98
42) Bromodichloromethane	4.506	83	299656	10.381	ppbv	96
43) Methyl Methacrylate	4.894	69	145663	10.229	ppbv	100
44) 2,2,4-Trimethylpentane	4.654	57	619804	9.997	ppbv	100
45) t-1,3-Dichloropropene	6.428	75	145145	10.889	ppbv	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
 Data File : VL041896.D
 Acq On : 14 Jan 2025 17:33
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL011425

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 01/15/2025
 Supervised By :Mahesh Dadoda 01/15/2025

Quant Time: Jan 15 03:23:15 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2

QLast Update : Tue Jan 14 23:15:42 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.616	75	186898	10.680	ppbv	98
47) 1,1,2-Trichloroethane	6.596	97	140891	9.886	ppbv	97
48) Dibromochloromethane	7.399	129	238244	10.835	ppbv	100
49) Bromoform	9.493	173	201141	11.136	ppbv	99
50) 4-Methyl-2-Pentanone	5.771	43	363675	10.023	ppbv	99
51) 2-Hexanone	7.451	43	284058	10.189	ppbv #	99
52) Tetrachloroethene	8.237	164	127806	9.616	ppbv	98
53) Toluene	6.949	91	427033	10.227	ppbv	99
54) 1,2-Dibromoethane	7.665	107	199339	10.175	ppbv	95
56) 1,1,1,2-Tetrachloroethane	8.937	131	188209	10.103	ppbv	99
57) Chlorobenzene	8.933	112	329025	9.553	ppbv	99
58) Ethyl Benzene	9.364	91	601857	10.314	ppbv	99
59) m/p-Xylene	9.561	91	964838m	20.628	ppbv	
60) o-Xylene	9.972	91	480442	10.348	ppbv	100
61) Styrene	9.878	104	229797	11.034	ppbv	99
62) Isopropylbenzene	10.548	105	728189	10.136	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.972	83	290998	9.809	ppbv	100
64) n-propylbenzene	10.998	120	182397	10.048	ppbv	98
65) tert-Butylbenzene	11.539	119	657521	10.043	ppbv	100
66) Benzyl Chloride	11.623	91	42509	10.490	ppbv #	97
67) sec-Butylbenzene	11.778	105	901260	9.997	ppbv	98
69) p-Isopropyltoluene	11.934	119	745566	10.043	ppbv	99
70) n-Butylbenzene	12.290	91	733637	9.965	ppbv	99
71) 2-Chlorotoluene	10.911	91	543858	10.234	ppbv	100
72) 4-Ethyltoluene	11.134	105	568921	10.245	ppbv	99
73) 1,3,5-Trimethylbenzene	11.212	105	493388	10.061	ppbv	99
74) 1,2,4-Trimethylbenzene	11.545	105	528225	9.946	ppbv	98
75) 1,3-Dichlorobenzene	11.617	146	304133	9.664	ppbv	99
76) 1,4-Dichlorobenzene	11.681	146	297765	9.670	ppbv	99
77) 1,2-Dichlorobenzene	11.956	146	298039	9.555	ppbv	99
78) Hexachloro-1,3-Butadiene	13.889	225	228592	8.929	ppbv	99
79) Naphthalene	13.523	128	497063	9.295	ppbv	99
80) Naphthalene,2-methyl-	14.468	142	187571	7.398	ppbv	98
81) 1,2,4-Trichlorobenzene	13.448	180	236181	9.049	ppbv	99

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

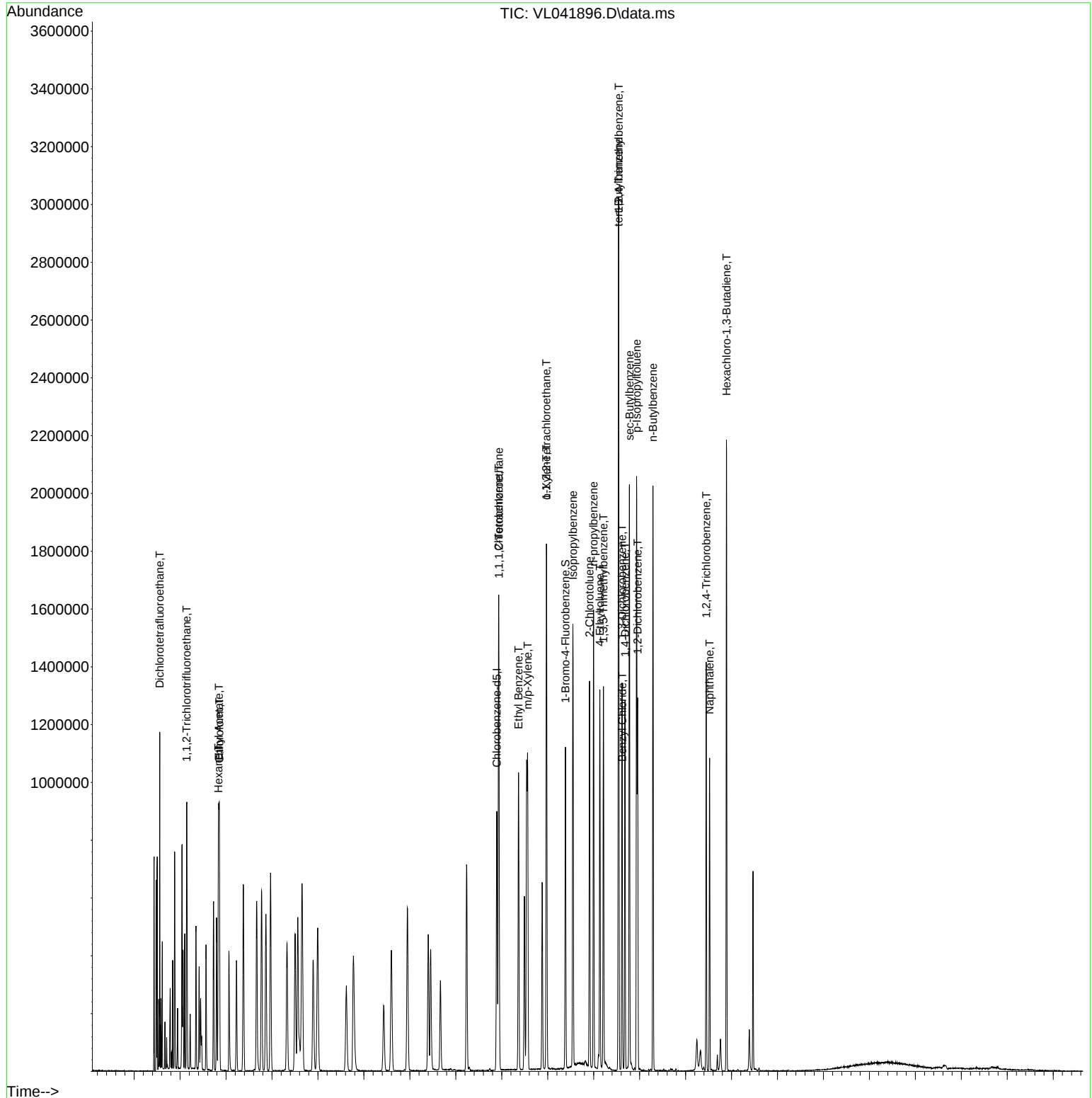
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
Data File : VL041896.D
Acq On : 14 Jan 2025 17:33
Operator : SY/MD
Sample : VSTDICV010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
ICVVL011425

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

Quant Time: Jan 15 03:23:15 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Tue Jan 14 23:15:42 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
 Data File : VL041896.D
 Acq On : 14 Jan 2025 17:33
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICSVVL011425

Quant Time: Jan 15 03:23:15 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Tue Jan 14 23:15:42 2025
 Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 20% Max. R.T. Dev 0.50min
 Max. RRF Dev : 30% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	Bromochloromethane	1.000	1.000	0.0	93	0.00
2 T	Dichlorodifluoromethane	1.362	1.348	1.0	96	0.00
3	Chlorodifluoromethane	1.427	1.415	0.8	99	0.00
4	Chloromethane	0.512	0.507	1.0	96	0.00
5 T	Vinyl Chloride	0.519	0.508	2.1	101	0.00
6 T	Bromomethane	0.247	0.237	4.0	96	0.00
7	Chloroethane	0.202	0.209	-3.5	101	0.00
8 T	Dichlorotetrafluoroethane	1.190	1.156	2.9	98	0.00
9 T	Propene	0.588	0.581	1.2	95	0.00
10 T	Heptane	1.571	1.590	-1.2	97	0.00
11 T	Trichlorofluoromethane	1.417	1.401	1.1	98	0.00
12 T	1,1,2-Trichlorotrifluoroeth	1.110	1.128	-1.6	99	0.00
13	Ethanol	0.043	0.027#	37.2#	91	0.00
14 T	Bromoethene	0.407	0.404	0.7	101	0.00
15 T	Acetone	1.201	1.060	11.7	99	0.00
16 T	1,3-Butadiene	0.539	0.520	3.5	98	0.00
17	tert-Butyl alcohol	1.478	1.443	2.4	96	0.00
18 T	1,1-Dichloroethene	0.501	0.501	0.0	102	0.00
19 T	Isopropyl Alcohol	0.712	0.661	7.2	99	0.00
20 T	Methylene Chloride	0.475	0.424	10.7	101	0.00
21 T	Allyl Chloride	0.832	0.839	-0.8	99	0.00
22 T	trans-1,2-Dichloroethene	0.565	0.546	3.4	94	0.00
23 T	Vinyl Acetate	0.595	0.568	4.5	98	0.00
24 T	1,1-Dichloroethane	1.093	1.097	-0.4	100	0.00
25 T	Ethyl Acetate	3.239	3.236	0.1	97	0.00
26 T	Hexane	1.281	1.302	-1.6	96	0.00
27 T	Carbon Disulfide	1.268	1.318	-3.9	97	0.00
28 T	Methyl tert-Butyl Ether	0.979	0.794	18.9	95	0.00
29 T	Chloroform	2.025	1.994	1.5	97	0.00
30 T	Cyclohexane	1.111	1.124	-1.2	97	0.00
31 T	cis-1,2-Dichloroethene	1.349	1.320	2.1	97	0.00
32 T	1,1,1-Trichloroethane	1.938	2.009	-3.7	98	0.00
33 I	1,4-Difluorobenzene	1.000	1.000	0.0	93	0.00
34 T	2-Butanone	0.636	0.626	1.6	97	0.00
35 T	Carbon Tetrachloride	0.628	0.683	-8.8	98	0.00
36 T	Benzene	0.917	0.896	2.3	94	0.00
37 T	1,2-Dichloroethane	0.515	0.513	0.4	97	0.00
38 T	Trichloroethene	0.364	0.367	-0.8	96	0.00
39 T	1,2-Dichloropropane	0.322	0.312	3.1	95	0.00
40 T	1,4-Dioxane	0.162	0.153	5.6	96	0.00
41 T	Tetrahydrofuran	0.346	0.354	-2.3	95	0.00
42 T	Bromodichloromethane	0.691	0.717	-3.8	98	0.00
43	Methyl Methacrylate	0.341	0.349	-2.3	96	0.00
44 T	2,2,4-Trimethylpentane	1.484	1.483	0.1	95	0.00
45 T	t-1,3-Dichloropropene	0.319	0.347	-8.8	96	0.00
46 T	cis-1,3-Dichloropropene	0.419	0.447	-6.7	93	0.00
47 T	1,1,2-Trichloroethane	0.341	0.337	1.2	94	0.00
48 T	Dibromochloromethane	0.526	0.570	-8.4	97	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
 Data File : VL041896.D
 Acq On : 14 Jan 2025 17:33
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL011425

Quant Time: Jan 15 03:23:15 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Tue Jan 14 23:15:42 2025
 Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 20% Max. R.T. Dev 0.50min
 Max. RRF Dev : 30% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
49 T	Bromoform	0.432	0.481	-11.3	97	0.00
50 T	4-Methyl-2-Pentanone	0.868	0.870	-0.2	97	0.00
51 T	2-Hexanone	0.667	0.680	-1.9	97	0.00
52 T	Tetrachloroethene	0.318	0.306	3.8	97	0.00
53 T	Toluene	0.999	1.022	-2.3	94	0.00
54 T	1,2-Dibromoethane	0.469	0.477	-1.7	98	0.00
55 I	Chlorobenzene-d5	1.000	1.000	0.0	93	0.00
56	1,1,1,2-Tetrachloroethane	0.499	0.504	-1.0	98	0.00
57 T	Chlorobenzene	0.922	0.881	4.4	97	0.00
58 T	Ethyl Benzene	1.563	1.612	-3.1	97	0.00
59 T	m/p-Xylene	1.253	1.292	-3.1	99	0.00
60 T	o-Xylene	1.243	1.287	-3.5	98	0.00
61 T	Styrene	0.558	0.615	-10.2	98	0.00
62	Isopropylbenzene	1.924	1.950	-1.4	98	0.00
63 T	1,1,2,2-Tetrachloroethane	0.795	0.779	2.0	97	0.00
64	n-propylbenzene	0.486	0.488	-0.4	97	0.00
65	tert-Butylbenzene	1.753	1.761	-0.5	98	0.00
66 T	Benzyl Chloride	0.109	0.114	-4.6	92	0.00
67	sec-Butylbenzene	2.414	2.414	0.0	98	0.00
68 S	1-Bromo-4-Fluorobenzene	0.788	0.798	-1.3	95	0.00
69	p-Isopropyltoluene	1.988	1.997	-0.5	97	0.00
70	n-Butylbenzene	1.972	1.965	0.4	97	0.00
71	2-Chlorotoluene	1.423	1.457	-2.4	98	0.00
72 T	4-Ethyltoluene	1.487	1.524	-2.5	97	0.00
73 T	1,3,5-Trimethylbenzene	1.313	1.321	-0.6	98	0.00
74 T	1,2,4-Trimethylbenzene	1.422	1.415	0.5	98	0.00
75 T	1,3-Dichlorobenzene	0.843	0.815	3.3	98	0.00
76 T	1,4-Dichlorobenzene	0.825	0.797	3.4	97	0.00
77 T	1,2-Dichlorobenzene	0.835	0.798	4.4	98	0.00
78 T	Hexachloro-1,3-Butadiene	0.686	0.612	10.8	97	0.00
79 T	Naphthalene	1.432	1.331	7.1	99	0.00
80 T	Naphthalene,2-methyl-	0.679	0.502	26.1	101	0.00
81 T	1,2,4-Trichlorobenzene	0.699	0.633	9.4	99	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
 Data File : VL041896.D
 Acq On : 14 Jan 2025 17:33
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICSVVL011425

Quant Time: Jan 15 03:23:15 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Tue Jan 14 23:15:42 2025
 Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 20% Max. R.T. Dev 0.50min
 Max. RRF Dev : 30% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	Bromochloromethane	10.000	10.000	0.0	93	0.00
2 T	Dichlorodifluoromethane	10.000	9.894	1.1	96	0.00
3	Chlorodifluoromethane	10.000	9.916	0.8	99	0.00
4	Chloromethane	10.000	9.889	1.1	96	0.00
5 T	Vinyl Chloride	10.000	9.791	2.1	101	0.00
6 T	Bromomethane	10.000	9.589	4.1	96	0.00
7	Chloroethane	10.000	10.333	-3.3	101	0.00
8 T	Dichlorotetrafluoroethane	10.000	9.712	2.9	98	0.00
9 T	Propene	10.000	9.886	1.1	95	0.00
10 T	Heptane	10.000	10.119	-1.2	97	0.00
11 T	Trichlorofluoromethane	10.000	9.890	1.1	98	0.00
12 T	1,1,2-Trichlorotrifluoroeth	10.000	10.162	-1.6	99	0.00
13	Ethanol	10.000	6.197	38.0#	91	0.00
14 T	Bromoethene	10.000	9.941	0.6	101	0.00
15 T	Acetone	10.000	8.822	11.8	99	0.00
16 T	1,3-Butadiene	10.000	9.643	3.6	98	0.00
17	tert-Butyl alcohol	10.000	9.758	2.4	96	0.00
18 T	1,1-Dichloroethene	10.000	10.015	-0.2	102	0.00
19 T	Isopropyl Alcohol	10.000	9.277	7.2	99	0.00
20 T	Methylene Chloride	10.000	8.940	10.6	101	0.00
21 T	Allyl Chloride	10.000	10.092	-0.9	99	0.00
22 T	trans-1,2-Dichloroethene	10.000	9.669	3.3	94	0.00
23 T	Vinyl Acetate	10.000	9.536	4.6	98	0.00
24 T	1,1-Dichloroethane	10.000	10.042	-0.4	100	0.00
25 T	Ethyl Acetate	10.000	9.993	0.1	97	0.00
26 T	Hexane	10.000	10.164	-1.6	96	0.00
27 T	Carbon Disulfide	10.000	10.395	-3.9	97	0.00
28 T	Methyl tert-Butyl Ether	10.000	8.110	18.9	95	0.00
29 T	Chloroform	10.000	9.847	1.5	97	0.00
30 T	Cyclohexane	10.000	10.120	-1.2	97	0.00
31 T	cis-1,2-Dichloroethene	10.000	9.787	2.1	97	0.00
32 T	1,1,1-Trichloroethane	10.000	10.371	-3.7	98	0.00
33 I	1,4-Difluorobenzene	10.000	10.000	0.0	93	0.00
34 T	2-Butanone	10.000	9.840	1.6	97	0.00
35 T	Carbon Tetrachloride	10.000	10.871	-8.7	98	0.00
36 T	Benzene	10.000	9.764	2.4	94	0.00
37 T	1,2-Dichloroethane	10.000	9.966	0.3	97	0.00
38 T	Trichloroethene	10.000	10.075	-0.7	96	0.00
39 T	1,2-Dichloropropane	10.000	9.704	3.0	95	0.00
40 T	1,4-Dioxane	10.000	9.386	6.1	96	0.00
41 T	Tetrahydrofuran	10.000	10.255	-2.6	95	0.00
42 T	Bromodichloromethane	10.000	10.381	-3.8	98	0.00
43	Methyl Methacrylate	10.000	10.229	-2.3	96	0.00
44 T	2,2,4-Trimethylpentane	10.000	9.997	0.0	95	0.00
45 T	t-1,3-Dichloropropene	10.000	10.889	-8.9	96	0.00
46 T	cis-1,3-Dichloropropene	10.000	10.680	-6.8	93	0.00
47 T	1,1,2-Trichloroethane	10.000	9.886	1.1	94	0.00
48 T	Dibromochloromethane	10.000	10.835	-8.4	97	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
 Data File : VL041896.D
 Acq On : 14 Jan 2025 17:33
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL011425

Quant Time: Jan 15 03:23:15 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Tue Jan 14 23:15:42 2025
 Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 20% Max. R.T. Dev 0.50min
 Max. RRF Dev : 30% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
49 T	Bromoform	10.000	11.136	-11.4	97	0.00
50 T	4-Methyl-2-Pentanone	10.000	10.023	-0.2	97	0.00
51 T	2-Hexanone	10.000	10.189	-1.9	97	0.00
52 T	Tetrachloroethene	10.000	9.616	3.8	97	0.00
53 T	Toluene	10.000	10.227	-2.3	94	0.00
54 T	1,2-Dibromoethane	10.000	10.175	-1.8	98	0.00
55 I	Chlorobenzene-d5	10.000	10.000	0.0	93	0.00
56	1,1,1,2-Tetrachloroethane	10.000	10.103	-1.0	98	0.00
57 T	Chlorobenzene	10.000	9.553	4.5	97	0.00
58 T	Ethyl Benzene	10.000	10.314	-3.1	97	0.00
59 T	m/p-Xylene	20.000	20.628	-3.1	99	0.00
60 T	o-Xylene	10.000	10.348	-3.5	98	0.00
61 T	Styrene	10.000	11.034	-10.3	98	0.00
62	Isopropylbenzene	10.000	10.136	-1.4	98	0.00
63 T	1,1,2,2-Tetrachloroethane	10.000	9.809	1.9	97	0.00
64	n-propylbenzene	10.000	10.048	-0.5	97	0.00
65	tert-Butylbenzene	10.000	10.043	-0.4	98	0.00
66 T	Benzyl Chloride	10.000	10.490	-4.9	92	0.00
67	sec-Butylbenzene	10.000	9.997	0.0	98	0.00
68 S	1-Bromo-4-Fluorobenzene	10.000	10.133	-1.3	95	0.00
69	p-Isopropyltoluene	10.000	10.043	-0.4	97	0.00
70	n-Butylbenzene	10.000	9.965	0.4	97	0.00
71	2-Chlorotoluene	10.000	10.234	-2.3	98	0.00
72 T	4-Ethyltoluene	10.000	10.245	-2.4	97	0.00
73 T	1,3,5-Trimethylbenzene	10.000	10.061	-0.6	98	0.00
74 T	1,2,4-Trimethylbenzene	10.000	9.946	0.5	98	0.00
75 T	1,3-Dichlorobenzene	10.000	9.664	3.4	98	0.00
76 T	1,4-Dichlorobenzene	10.000	9.670	3.3	97	0.00
77 T	1,2-Dichlorobenzene	10.000	9.555	4.5	98	0.00
78 T	Hexachloro-1,3-Butadiene	10.000	8.929	10.7	97	0.00
79 T	Naphthalene	10.000	9.295	7.1	99	0.00
80 T	Naphthalene,2-methyl-	10.000	7.398	26.0	101	0.00
81 T	1,2,4-Trichlorobenzene	10.000	9.049	9.5	99	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: GFEL01

Lab Code: CHEM Case No.: Q1073 SAS No.: Q1073 SDG No.: Q1073

Instrument ID: MSVOA_L Calibration Date/Time: 01/14/2025 12:55

Lab File ID: VL041889.D Init. Calib. Date(s): 01/14/2025 01/15/2025

Heated Purge: (Y/N) N Init. Calib. Time(s): 11:40 08:37

GC Column: RTX-1 ID: 0.32 (mm)

COMPOUND	RRF	RRF010	MIN RRF	%D	MAX%D
Vinyl Chloride	0.522	0.466		-10.73	
1,1-Dichloroethene	0.497	0.458		-7.85	
cis-1,2-Dichloroethene	1.282	1.272		-0.78	
1,1,1-Trichloroethane	1.936	1.905		-1.6	
Trichloroethene	0.361	0.354		-1.94	
Tetrachloroethene	0.318	0.292		-8.18	
1-Bromo-4-Fluorobenzene	0.789	0.782		-0.89	

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
 Data File : VL041889.D
 Acq On : 14 Jan 2025 12:55
 Operator : SY/MD
 Sample : VSTDICCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 01/15/2025
 Supervised By : Mahesh Dadoda 01/15/2025

Quant Time: Jan 14 21:20:11 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2

QLast Update : Tue Jan 14 16:31:18 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.797	49	152325	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.975	114	449256	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.894	117	400269	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	10.390	95	313194	9.934	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.300%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.502	85	197959	9.541	ppbv	100
3) Chlorodifluoromethane	1.479	51	202651	9.323	ppbv	100
4) Chloromethane	1.538	50	74977	9.608	ppbv	100
5) Vinyl Chloride	1.583	62	71006	8.984	ppbv	100
6) Bromomethane	1.674	94	34817	9.243	ppbv	100
7) Chloroethane	1.709	64	29349	9.544	ppbv	100
8) Dichlorotetrafluoroethane	1.557	85	166754	9.196	ppbv	100
9) Propene	1.486	41	86544	9.665	ppbv	100
10) Heptane	5.001	43	233062	9.738	ppbv	100
11) Trichlorofluoromethane	1.884	101	203374	9.423	ppbv	100
12) 1,1,2-Trichlorotrifluo...	2.146	101	160993	9.517	ppbv	100
13) Ethanol	1.725	45	4155	6.335	ppbv	98
14) Bromoethene	1.787	108	56447	9.114	ppbv	100
15) Acetone	1.842	43	151022	8.255	ppbv	100
16) 1,3-Butadiene	1.612	39	75244	9.163	ppbv	100
17) tert-Butyl alcohol	2.046	59	213109	9.464	ppbv	100
18) 1,1-Dichloroethene	2.039	96	69825	9.158	ppbv	100
19) Isopropyl Alcohol	1.890	45	94532	8.714	ppbv	100
20) Methylene Chloride	2.068	84	59427	8.219	ppbv	100
21) Allyl Chloride	2.101	41	120681	9.526	ppbv	100
22) trans-1,2-Dichloroethene	2.347	96	82326	9.568	ppbv	100
23) Vinyl Acetate	2.470	43	81885	10.281	ppbv	100
24) 1,1-Dichloroethane	2.418	63	154838	9.303	ppbv	100
25) Ethyl Acetate	2.845	43	471257	9.552	ppbv	100
26) Hexane	2.835	57	192009	9.841	ppbv	100
27) Carbon Disulfide	2.156	76	191567	9.921	ppbv	99
28) Methyl tert-Butyl Ether	2.450	73	117898	7.905	ppbv	100
29) Chloroform	2.858	83	291118	9.438	ppbv	100
30) Cyclohexane	3.868	84	164788	9.737	ppbv	100
31) cis-1,2-Dichloroethene	2.729	61	193774	9.432	ppbv	100
32) 1,1,1-Trichloroethane	3.379	97	290126	9.830	ppbv	100
34) 2-Butanone	2.567	43	270263	9.459	ppbv	100
35) Carbon Tetrachloride	3.777	117	291448	10.309	ppbv	100
36) Benzene	3.671	78	396344	9.619	ppbv	100
37) 1,2-Dichloroethane	3.230	62	221352	9.565	ppbv	100
38) Trichloroethene	4.564	130	159253	9.736	ppbv	100
39) 1,2-Dichloropropane	4.331	63	137090	9.484	ppbv	100
40) 1,4-Dioxane	4.606	88	66200	9.075	ppbv #	94
41) Tetrahydrofuran	3.065	42	156141	10.023	ppbv	100
42) Bromodichloromethane	4.509	83	307176	9.900	ppbv	100
43) Methyl Methacrylate	4.897	69	152001	9.930	ppbv	100
44) 2,2,4-Trimethylpentane	4.658	57	654395	9.819	ppbv	100
45) t-1,3-Dichloropropene	6.435	75	151920	10.603	ppbv	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
 Data File : VL041889.D
 Acq On : 14 Jan 2025 12:55
 Operator : SY/MD
 Sample : VSTDICCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 01/15/2025
 Supervised By :Mahesh Dadoda 01/15/2025

Quant Time: Jan 14 21:20:11 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2

QLast Update : Tue Jan 14 16:31:18 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.622	75	200330	10.649	ppbv	100
47) 1,1,2-Trichloroethane	6.600	97	149634	9.766	ppbv	100
48) Dibromochloromethane	7.402	129	245066	10.368	ppbv	100
49) Bromoform	9.496	173	206751	10.649	ppbv	100
50) 4-Methyl-2-Pentanone	5.778	43	374267	9.615	ppbv	100
51) 2-Hexanone	7.454	43	292941	9.775	ppbv #	100
52) Tetrachloroethene	8.241	164	131334	9.193	ppbv	100
53) Toluene	6.952	91	454085	10.116	ppbv	100
54) 1,2-Dibromoethane	7.668	107	203859	9.679	ppbv	100
56) 1,1,1,2-Tetrachloroethane	8.940	131	192449	9.637	ppbv	99
57) Chlorobenzene	8.937	112	339570	9.197	ppbv	100
58) Ethyl Benzene	9.367	91	620719	9.923	ppbv	100
59) m/p-Xylene	9.564	91	979297m	19.504	ppbv	
60) o-Xylene	9.979	91	490108	9.848	ppbv	100
61) Styrene	9.885	104	234901	10.522	ppbv	100
62) Isopropylbenzene	10.552	105	742261	9.638	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.976	83	300600	9.596	ppbv	100
64) n-propylbenzene	11.002	120	187706	9.646	ppbv	99
65) tert-Butylbenzene	11.542	119	670259	9.550	ppbv	100
66) Benzyl Chloride	11.626	91	46008	10.591	ppbv	100
67) sec-Butylbenzene	11.778	105	920046	9.521	ppbv	100
69) p-Isopropyltoluene	11.937	119	771465	9.694	ppbv	100
70) n-Butylbenzene	12.293	91	759785	9.627	ppbv	100
71) 2-Chlorotoluene	10.914	91	556170	9.763	ppbv	100
72) 4-Ethyltoluene	11.137	105	586667	9.855	ppbv	100
73) 1,3,5-Trimethylbenzene	11.215	105	505443	9.614	ppbv	100
74) 1,2,4-Trimethylbenzene	11.549	105	538665	9.461	ppbv	100
75) 1,3-Dichlorobenzene	11.620	146	310421	9.201	ppbv	100
76) 1,4-Dichlorobenzene	11.684	146	307758	9.324	ppbv	100
77) 1,2-Dichlorobenzene	11.960	146	303196	9.068	ppbv	100
78) Hexachloro-1,3-Butadiene	13.895	225	234457	8.543	ppbv	100
79) Naphthalene	13.526	128	502354	8.764	ppbv	100
80) Naphthalene,2-methyl-	14.471	142	185336	6.819	ppbv	100
81) 1,2,4-Trichlorobenzene	13.452	180	239317	8.553	ppbv	100

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

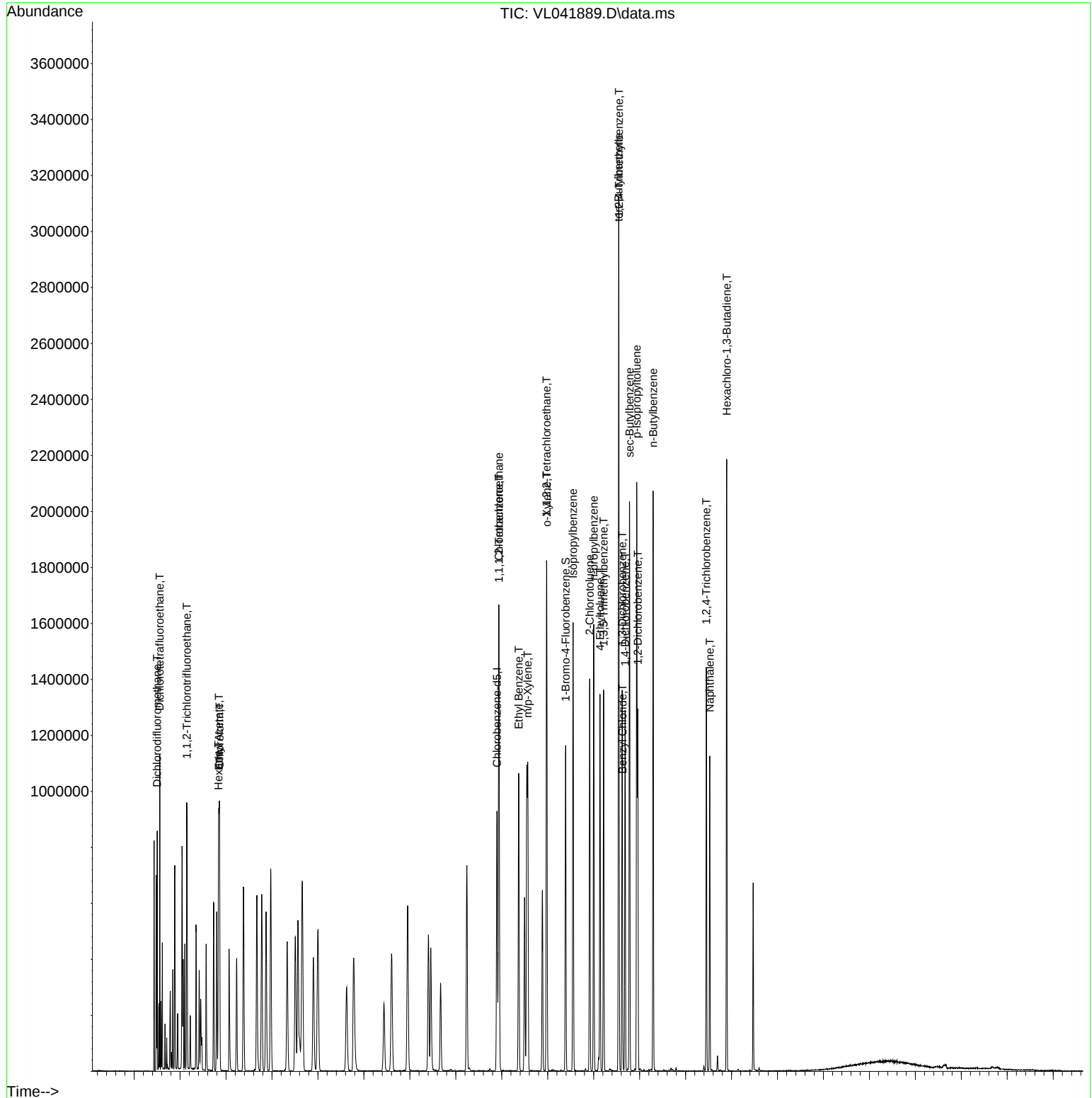
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
Data File : VL041889.D
Acq On : 14 Jan 2025 12:55
Operator : SY/MD
Sample : VSTDICCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

Quant Time: Jan 14 21:20:11 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Tue Jan 14 16:31:18 2025
Response via : Initial Calibration





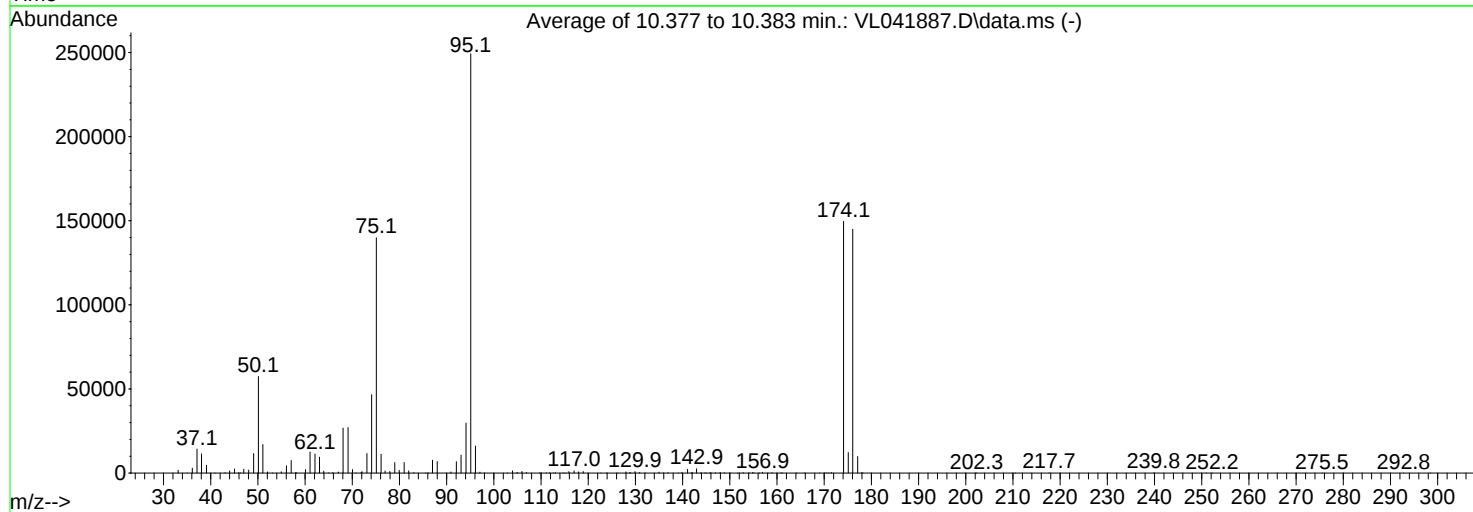
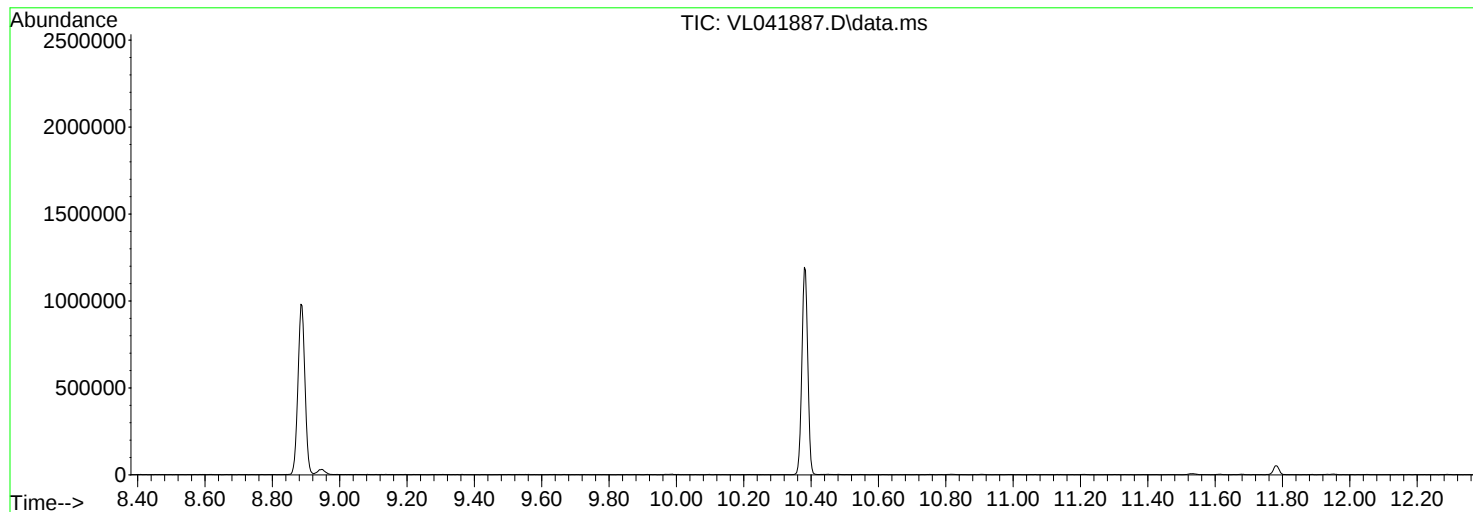
QC SAMPLE DATA

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
Data File : VL041887.D
Acq On : 14 Jan 2025 07:50
Operator : SY/MD
Sample : BFB
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
Last Update : Tue Jan 14 23:15:42 2025



AutoFind: Scans 3179, 3180, 3181; Background Corrected with Scan 3165

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	23.0	57448	PASS
75	95	30	66	56.1	139893	PASS
95	95	100	100	100.0	249280	PASS
96	95	5	9	6.5	16102	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	60.0	149632	PASS
175	174	4	9	8.2	12223	PASS
176	174	93	101	96.8	144917	PASS
177	176	5	9	6.8	9838	PASS

Average of 10.377 to 10.383 min.: VL041887.D\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
33.10	1721	46.25	187	58.00	217	69.10	27064
35.00	34	47.00	2270	58.20	169	70.05	2086
36.10	2904	48.05	1800	60.10	2093	70.80	62
37.10	14256	49.10	11606	61.05	12532	71.90	478
38.05	11416	50.10	57448	62.10	11347	72.05	855
39.10	4640	51.05	16983	63.05	9441	73.10	11647
40.90	20	52.05	698	63.95	1185	74.10	46637
43.05	223	53.10	70	65.05	142	75.10	139893
44.00	1302	54.95	811	65.80	140	76.10	11160
45.05	2448	56.05	4320	67.05	599	76.95	1289
45.85	203	57.05	7492	68.05	26765	77.95	981

Average of 10.377 to 10.383 min.: VL041887.D\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
79.00	6243	93.05	10708	106.90	325	117.00	1338
79.95	1666	94.10	29779	109.70	72	117.95	731
81.00	6311	95.10	249280	110.00	50	118.95	953
81.95	1325	96.10	16102	111.10	152	122.70	24
83.05	258	97.05	586	111.80	111	123.95	57
85.55	75	98.00	64	112.60	51	126.30	40
86.10	108	102.90	20	113.05	210	128.00	751
87.00	7686	103.95	1357	114.65	88	128.75	209
88.00	6856	104.80	96	114.90	24	129.00	149
90.90	686	105.05	252	115.30	44	129.90	917
92.05	6774	105.95	966	115.90	891	130.90	280

Average of 10.377 to 10.383 min.: VL041887.D\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
132.10	22	144.00	36	152.85	252	165.90	17
135.00	547	144.70	54	154.05	188	169.00	21
136.00	45	145.00	117	154.85	333	170.10	20
136.90	224	145.80	267	155.10	178	170.45	75
139.10	30	146.00	132	156.30	48	171.00	82
139.80	185	146.95	170	156.95	484	171.55	299
141.05	2202	147.95	449	158.10	23	174.10	149632
141.85	250	148.85	204	158.95	237	175.10	12223
142.10	215	150.05	156	160.85	178	176.05	144917
142.95	2558	151.60	28	161.10	61	177.10	9838
143.80	73	152.00	94	164.20	20	177.95	205

Average of 10.377 to 10.383 min.: VL041887.D\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
178.20	123						
202.00	26						
202.30	27						
210.50	25						
217.65	77						
239.80	44						
251.00	21						
252.20	26						
275.50	23						
292.80	18						
298.50	17						

Instrument :

MSVOA_L

ClientSampleId :

BFB

Report of Analysis

Client:	GFE LLC	Date Collected:	
Project:	720 W. 181st NY, NY	Date Received:	
Client Sample ID:	VL0114ABL02	SDG No.:	Q1073
Lab Sample ID:	VL0114ABL02	Matrix:	Air
Analytical Method:	TO-15	Test:	VOCMS Group3
Sample Wt/Vol:	400	Units:	mL

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL041898.D	1		01/14/25 19:05	VL011425

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-01-4	Vinyl Chloride	0.010	0.030	U	0.030	0.080	ug/m3
75-35-4	1,1-Dichloroethene	0.14	0.56	U	0.56	1.98	ug/m3
156-59-2	cis-1,2-Dichloroethene	0.090	0.36	U	0.36	1.98	ug/m3
71-55-6	1,1,1-Trichloroethane	0.010	0.050	U	0.050	0.16	ug/m3
79-01-6	Trichloroethene	0.020	0.11	U	0.11	0.16	ug/m3
127-18-4	Tetrachloroethene	0.020	0.14	U	0.14	0.20	ug/m3
SURROGATES							
460-00-4	1-Bromo-4-Fluorobenzene	9.90			65 - 135	99%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	139000		2.79			
540-36-3	1,4-Difluorobenzene	408000		3.965			
3114-55-4	Chlorobenzene-d5	348000		8.888			

U = Not Detected

RL = Reporting Limit

MDL = Method Detection Limit

E = Value Exceeds Calibration Range

D = Dilution

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

Q = indicates LCS control criteria did not meet requirements

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
 Data File : VL041898.D
 Acq On : 14 Jan 2025 19:05
 Operator : SY/MD
 Sample : VL0114ABL02
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0114ABL02

Quant Time: Jan 15 03:25:01 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Tue Jan 14 23:15:42 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.790	49	138889	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.965	114	407987	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.888	117	348302	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.380	95	272004	9.915	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.200%

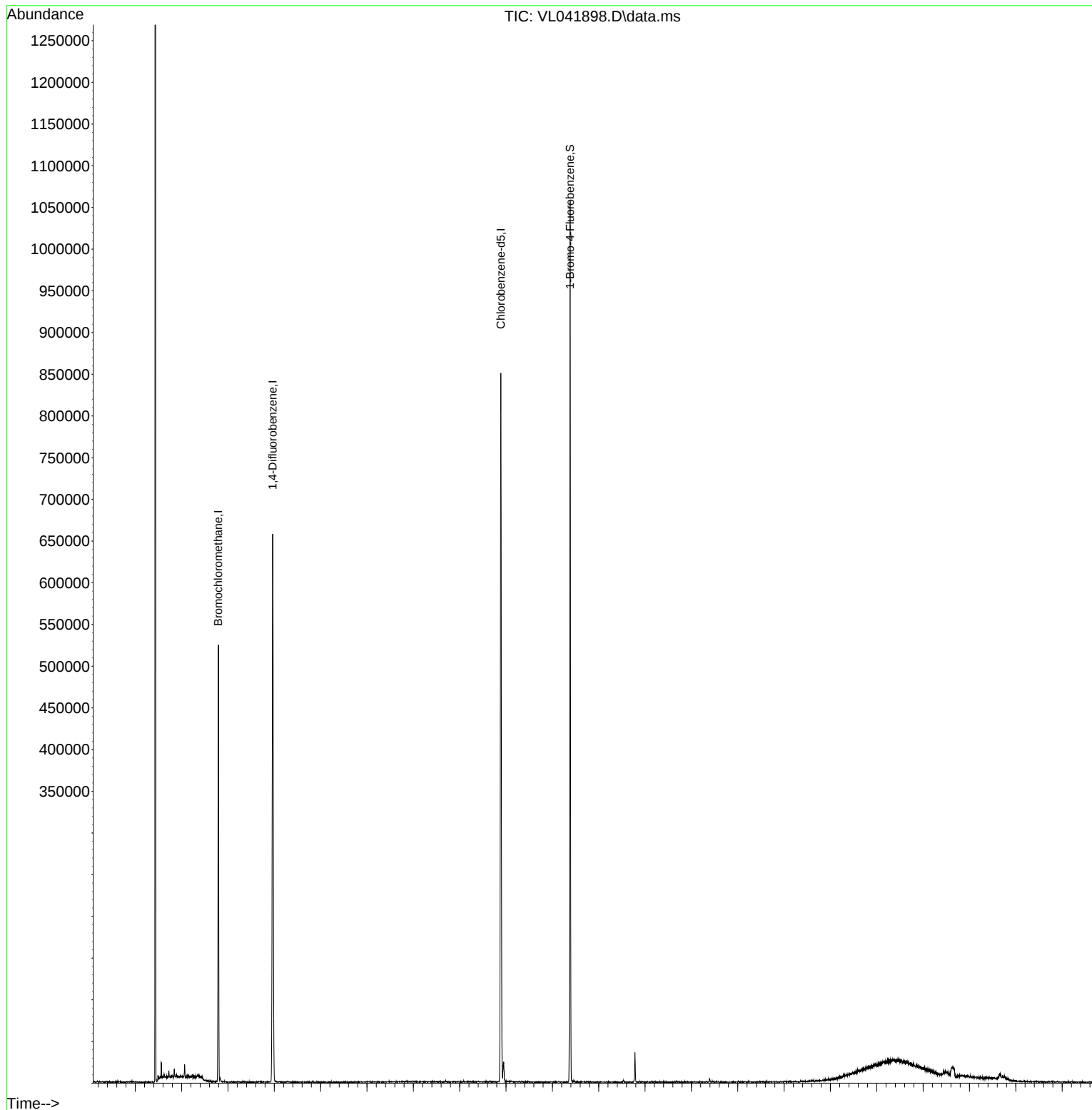
Target Compounds	Qvalue

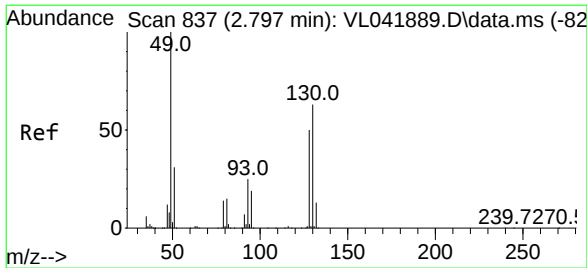
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
Data File : VL041898.D
Acq On : 14 Jan 2025 19:05
Operator : SY/MD
Sample : VL0114ABL02
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VL0114ABL02

Quant Time: Jan 15 03:25:01 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Tue Jan 14 23:15:42 2025
Response via : Initial Calibration

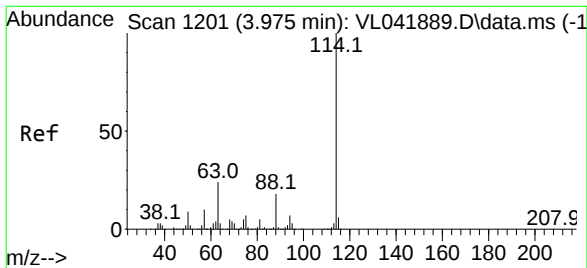
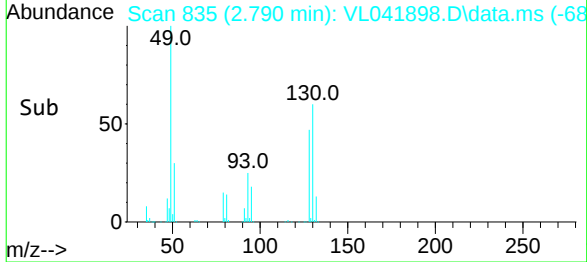
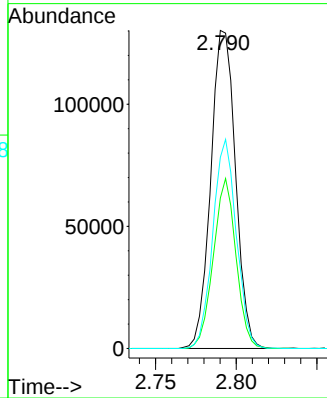
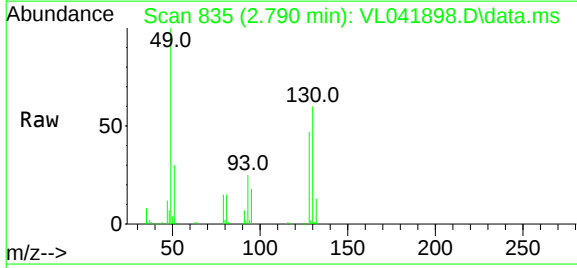




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.790 min Scan# 83
Delta R.T. -0.007 min
Lab File: VL041898.D
Acq: 14 Jan 2025 19:05

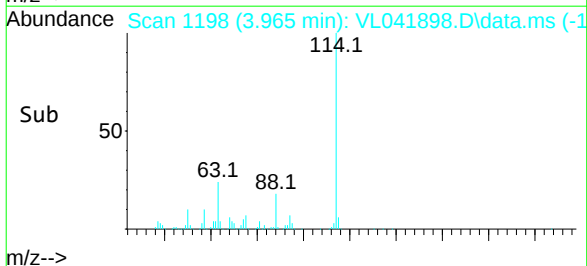
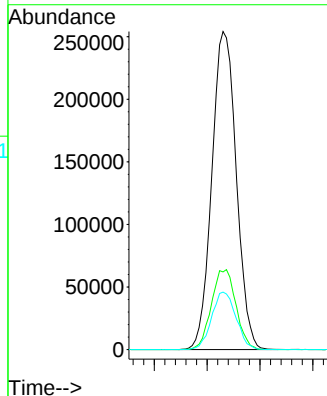
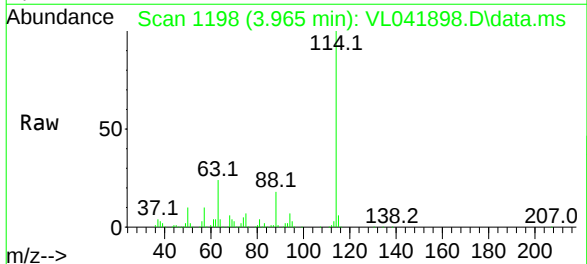
Instrument :
MSVOA_L
ClientSampleId :
VL0114ABL02

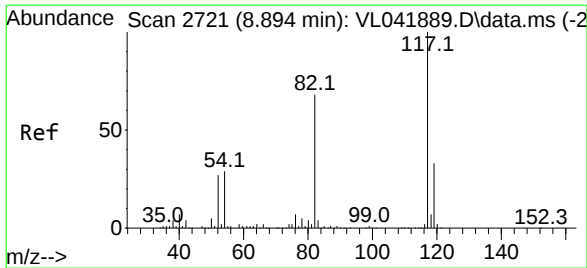
Tgt Ion: 49 Resp: 138889
Ion Ratio Lower Upper
49 100
128 48.9 24.3 73.0
130 62.6 31.1 93.2



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.965 min Scan# 1198
Delta R.T. -0.010 min
Lab File: VL041898.D
Acq: 14 Jan 2025 19:05

Tgt Ion: 114 Resp: 407987
Ion Ratio Lower Upper
114 100
63 25.3 19.8 29.6
88 18.0 14.4 21.6





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.888 min Scan# 27

Delta R.T. -0.006 min

Lab File: VL041898.D

Acq: 14 Jan 2025 19:05

Instrument :

MSVOA_L

ClientSampleId :

VL0114ABL02

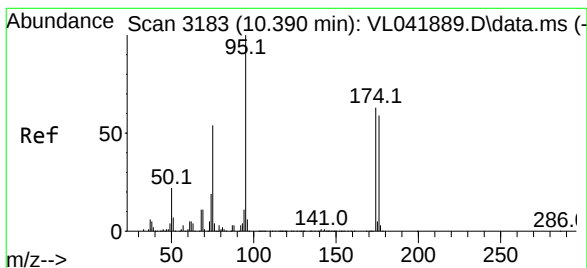
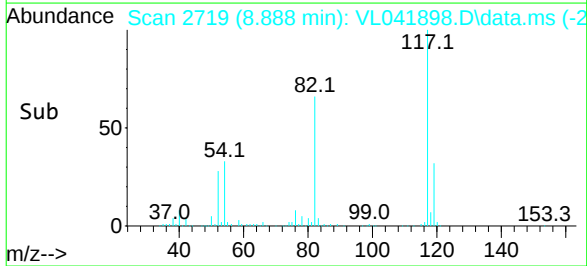
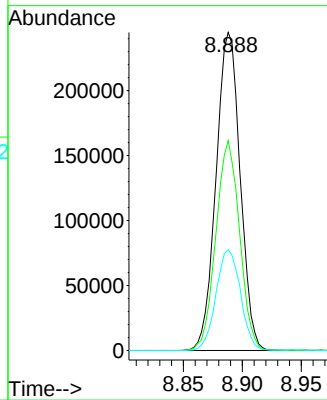
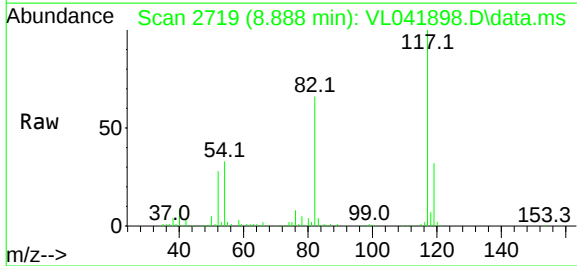
Tgt Ion:117 Resp: 348302

Ion Ratio Lower Upper

117 100

82 64.8 54.2 81.4

119 32.2 25.0 37.6



#68

1-Bromo-4-Fluorobenzene

Concen: 9.915 ppbv

RT: 10.380 min Scan# 3180

Delta R.T. -0.010 min

Lab File: VL041898.D

Acq: 14 Jan 2025 19:05

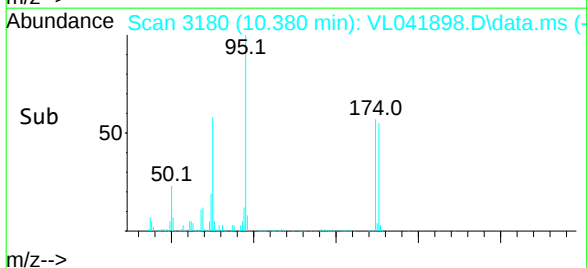
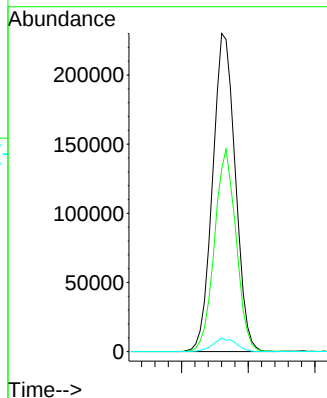
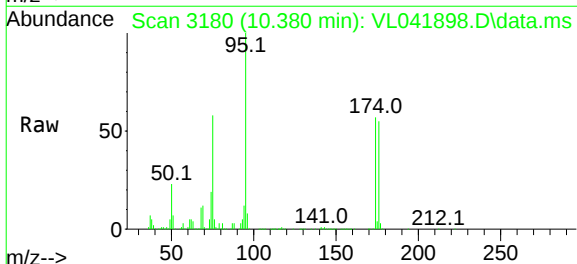
Tgt Ion: 95 Resp: 272004

Ion Ratio Lower Upper

95 100

174 60.6 49.0 73.4

175 4.3 3.8 5.8



Report of Analysis

Client:	GFE LLC	Date Collected:	
Project:	720 W. 181st NY, NY	Date Received:	
Client Sample ID:	VL0114ABS01	SDG No.:	Q1073
Lab Sample ID:	VL0114ABS01	Matrix:	Air
Analytical Method:	TO-15	Test:	VOCMS Group3
Sample Wt/Vol:	400	Units:	mL

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL041899.D	1		01/14/25 19:36	VL011425

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-01-4	Vinyl Chloride	10.1	25.8		0.030	0.080	ug/m3
75-35-4	1,1-Dichloroethene	10.1	40.0		0.56	1.98	ug/m3
156-59-2	cis-1,2-Dichloroethene	9.70	38.5		0.36	1.98	ug/m3
71-55-6	1,1,1-Trichloroethane	10.4	56.7		0.050	0.16	ug/m3
79-01-6	Trichloroethene	9.90	53.2		0.11	0.16	ug/m3
127-18-4	Tetrachloroethene	9.40	63.7		0.14	0.20	ug/m3
SURROGATES							
460-00-4	1-Bromo-4-Fluorobenzene	10.2			65 - 135	102%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	136000		2.79			
540-36-3	1,4-Difluorobenzene	403000		3.965			
3114-55-4	Chlorobenzene-d5	356000		8.888			

U = Not Detected

RL = Reporting Limit

MDL = Method Detection Limit

E = Value Exceeds Calibration Range

D = Dilution

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

Q = indicates LCS control criteria did not meet requirements

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
 Data File : VL041899.D
 Acq On : 14 Jan 2025 19:36
 Operator : SY/MD
 Sample : VL0114ABS01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0114ABS01

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 01/15/2025
 Supervised By : Mahesh Dadoda 01/15/2025

Quant Time: Jan 15 03:25:23 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2

QLast Update : Tue Jan 14 23:15:42 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.790	49	135934	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.965	114	402701	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.888	117	356460	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.383 95 285053 10.153 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 101.500%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.499	85	189097	10.213	ppbv	97
3) Chlorodifluoromethane	1.476	51	187019	9.642	ppbv	98
4) Chloromethane	1.534	50	70383	10.107	ppbv	96
5) Vinyl Chloride	1.583	62	70937	10.057	ppbv	98
6) Bromomethane	1.670	94	32969	9.808	ppbv	91
7) Chloroethane	1.706	64	29068	10.592	ppbv	99
8) Dichlorotetrafluoroethane	1.557	85	164306	10.154	ppbv	100
9) Propene	1.486	41	74593	9.335	ppbv	95
10) Heptane	4.988	43	210202	9.842	ppbv	99
11) Trichlorofluoromethane	1.881	101	200241	10.396	ppbv	95
12) 1,1,2-Trichlorotrifluoro...	2.143	101	158273	10.485	ppbv	99
13) Ethanol	1.722	45	3872	6.616	ppbv	84
14) Bromoethene	1.784	108	54503	9.861	ppbv	97
15) Acetone	1.839	43	151307	9.267	ppbv	99
16) 1,3-Butadiene	1.612	39	73592	10.043	ppbv	98
17) tert-Butyl alcohol	2.042	59	192315	9.571	ppbv	98
18) 1,1-Dichloroethene	2.036	96	68563	10.077	ppbv	96
19) Isopropyl Alcohol	1.887	45	86592	8.945	ppbv	95
20) Methylene Chloride	2.065	84	58209	9.022	ppbv	94
21) Allyl Chloride	2.101	41	114685	10.144	ppbv	98
22) trans-1,2-Dichloroethene	2.343	96	78556	10.230	ppbv	99
23) Vinyl Acetate	2.466	43	70853	8.755	ppbv	97
24) 1,1-Dichloroethane	2.411	63	151977	10.233	ppbv	99
25) Ethyl Acetate	2.842	43	435382	9.889	ppbv	100
26) Hexane	2.832	57	173269	9.951	ppbv	97
27) Carbon Disulfide	2.152	76	184131	10.686	ppbv	97
28) Methyl tert-Butyl Ether	2.444	73	109401	8.220	ppbv	99
29) Chloroform	2.852	83	278081	10.103	ppbv	98
30) Cyclohexane	3.865	84	148603	9.839	ppbv	99
31) cis-1,2-Dichloroethene	2.725	61	178543	9.738	ppbv	96
32) 1,1,1-Trichloroethane	3.373	97	274943	10.439	ppbv	99
34) 2-Butanone	2.560	43	247866	9.679	ppbv	100
35) Carbon Tetrachloride	3.771	117	278138	10.996	ppbv	99
36) Benzene	3.664	78	362506	9.815	ppbv	99
37) 1,2-Dichloroethane	3.224	62	212786	10.258	ppbv	100
38) Trichloroethene	4.557	130	145473	9.925	ppbv	93
39) 1,2-Dichloropropane	4.321	63	124131	9.581	ppbv	96
40) 1,4-Dioxane	4.593	88	57312	8.759	ppbv #	98
41) Tetrahydrofuran	3.059	42	139374	10.014	ppbv	99
42) Bromodichloromethane	4.499	83	285998	10.283	ppbv	96
43) Methyl Methacrylate	4.891	69	136428	9.943	ppbv	98
44) 2,2,4-Trimethylpentane	4.648	57	591684	9.904	ppbv	99
45) t-1,3-Dichloropropene	6.425	75	132891	10.347	ppbv	97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
 Data File : VL041899.D
 Acq On : 14 Jan 2025 19:36
 Operator : SY/MD
 Sample : VL0114ABS01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0114ABS01

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 01/15/2025
 Supervised By :Mahesh Dadoda 01/15/2025

Quant Time: Jan 15 03:25:23 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2

QLast Update : Tue Jan 14 23:15:42 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.612	75	176246	10.452	ppbv	97
47) 1,1,2-Trichloroethane	6.590	97	138512	10.087	ppbv	96
48) Dibromochloromethane	7.399	129	226417	10.687	ppbv	100
49) Bromoform	9.490	173	190603	10.952	ppbv	99
50) 4-Methyl-2-Pentanone	5.768	43	339900	9.722	ppbv	100
51) 2-Hexanone	7.448	43	270020	10.051	ppbv #	98
52) Tetrachloroethene	8.234	164	120344	9.397	ppbv	96
53) Toluene	6.946	91	407178	10.121	ppbv	100
54) 1,2-Dibromoethane	7.661	107	190401	10.086	ppbv	98
56) 1,1,1,2-Tetrachloroethane	8.933	131	179834	10.112	ppbv	99
57) Chlorobenzene	8.927	112	316779	9.634	ppbv	97
58) Ethyl Benzene	9.361	91	566411	10.167	ppbv	100
59) m/p-Xylene	9.558	91	921827m	20.644	ppbv	
60) o-Xylene	9.972	91	462914	10.444	ppbv	99
61) Styrene	9.875	104	214400	10.784	ppbv	99
62) Isopropylbenzene	10.545	105	697392	10.169	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.969	83	281189	9.928	ppbv	100
64) n-propylbenzene	10.995	120	175356	10.119	ppbv	96
65) tert-Butylbenzene	11.539	119	634140	10.146	ppbv	99
66) Benzyl Chloride	11.623	91	37139	9.600	ppbv	98
67) sec-Butylbenzene	11.775	105	879679	10.222	ppbv	100
69) p-Isopropyltoluene	11.934	119	734754	10.368	ppbv	100
70) n-Butylbenzene	12.290	91	714677	10.169	ppbv	100
71) 2-Chlorotoluene	10.908	91	520731	10.264	ppbv	100
72) 4-Ethyltoluene	11.131	105	550386	10.382	ppbv	99
73) 1,3,5-Trimethylbenzene	11.212	105	478593	10.223	ppbv	97
74) 1,2,4-Trimethylbenzene	11.542	105	514624	10.150	ppbv	96
75) 1,3-Dichlorobenzene	11.613	146	293053	9.754	ppbv	99
76) 1,4-Dichlorobenzene	11.678	146	293347	9.980	ppbv	98
77) 1,2-Dichlorobenzene	11.953	146	294078	9.876	ppbv	98
78) Hexachloro-1,3-Butadiene	13.889	225	217475	8.898	ppbv	99
79) Naphthalene	13.520	128	468570	9.179	ppbv	100
80) Naphthalene,2-methyl-	14.465	142	163059	6.737	ppbv	98
81) 1,2,4-Trichlorobenzene	13.445	180	220953	8.867	ppbv	97

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

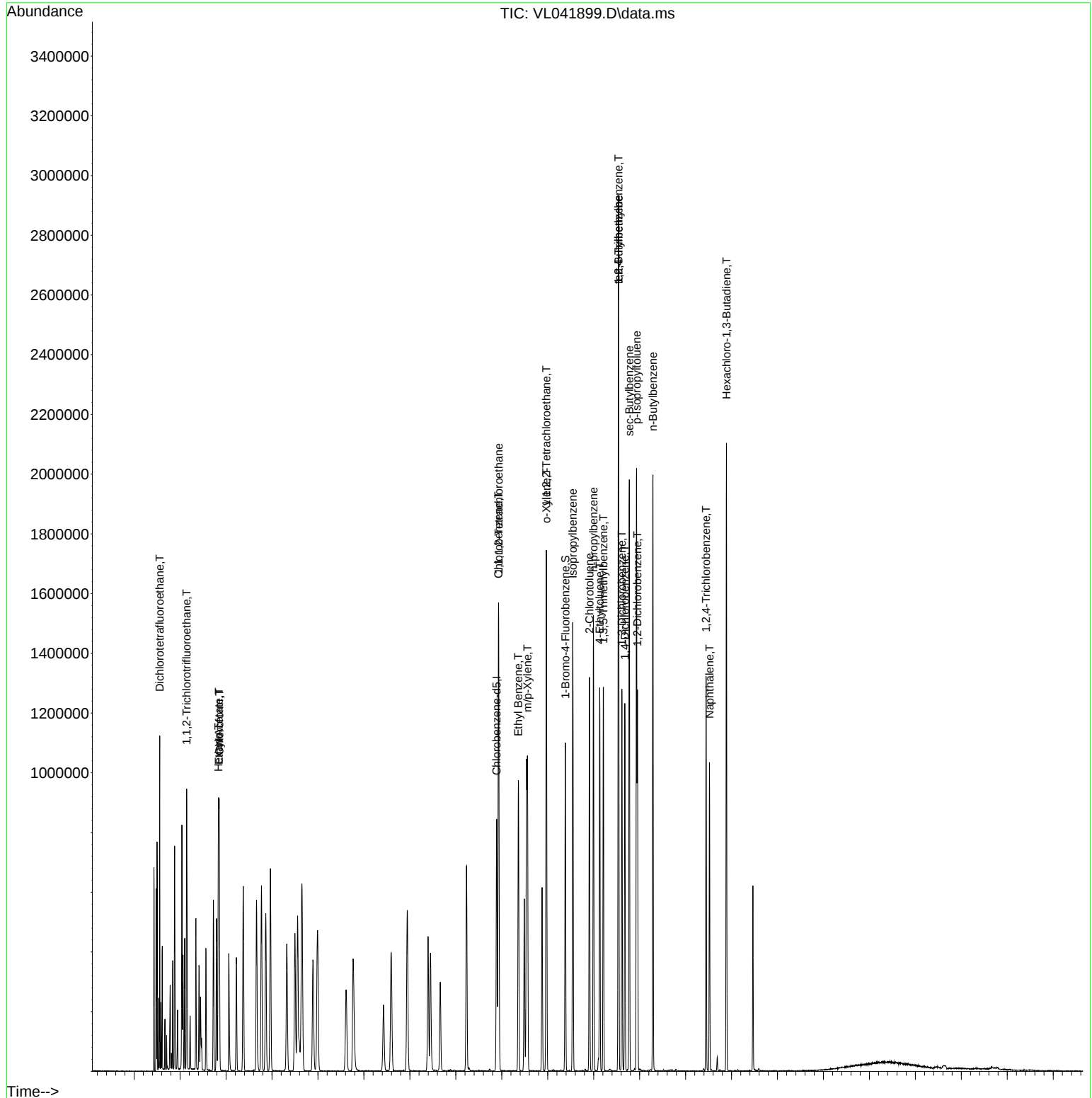
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Data File : VL041899.D
Acq On : 14 Jan 2025 19:36
Operator : SY/MD
Sample : VL0114ABS01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VL0114ABS01

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

Quant Time: Jan 15 03:25:23 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Tue Jan 14 23:15:42 2025
Response via : Initial Calibration



Manual Integration Report

Sequence:	VL011425	Instrument	MSVOA_I
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Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICCC010	VL041889.D	m/p-Xylene	SAM	1/15/2025 11:01:16 AM	MMDadoda	1/15/2025 12:57:14 PM	Peak Integrated by Software
VSTDICCC002	VL041890.D	1,1,2-Trichloroethane	SAM	1/15/2025 11:01:11 AM	MMDadoda	1/15/2025 12:57:17 PM	Peak Integrated by Software
VSTDICCC002	VL041890.D	1,4-Dioxane	SAM	1/15/2025 11:01:11 AM	MMDadoda	1/15/2025 12:57:17 PM	Peak Integrated by Software
VSTDICCC002	VL041890.D	m/p-Xylene	SAM	1/15/2025 11:01:11 AM	MMDadoda	1/15/2025 12:57:17 PM	Peak Integrated by Software
VSTDICCC001	VL041891.D	1,1,2-Trichloroethane	SAM	1/15/2025 11:01:22 AM	MMDadoda	1/15/2025 12:57:24 PM	Peak Integrated by Software
VSTDICCC001	VL041891.D	1,1-Dichloroethene	SAM	1/15/2025 11:01:22 AM	MMDadoda	1/15/2025 12:57:24 PM	Peak Integrated by Software
VSTDICCC001	VL041891.D	1,4-Dioxane	SAM	1/15/2025 11:01:22 AM	MMDadoda	1/15/2025 12:57:24 PM	Peak Integrated by Software
VSTDICCC001	VL041891.D	4-Methyl-2-Pentanone	SAM	1/15/2025 11:01:22 AM	MMDadoda	1/15/2025 12:57:24 PM	Peak Integrated by Software
VSTDICCC001	VL041891.D	Benzyl Chloride	SAM	1/15/2025 11:01:22 AM	MMDadoda	1/15/2025 12:57:24 PM	Peak Integrated by Software
VSTDICCC001	VL041891.D	Bromodichloromethane	SAM	1/15/2025 11:01:22 AM	MMDadoda	1/15/2025 12:57:24 PM	Peak Integrated by Software
VSTDICCC001	VL041891.D	m/p-Xylene	SAM	1/15/2025 11:01:22 AM	MMDadoda	1/15/2025 12:57:24 PM	Peak Integrated by Software
VSTDICCC001	VL041891.D	Tetrahydrofuran	SAM	1/15/2025 11:01:22 AM	MMDadoda	1/15/2025 12:57:24 PM	Peak Integrated by Software
VSTDICCC001	VL041891.D	Toluene	SAM	1/15/2025 11:01:22 AM	MMDadoda	1/15/2025 12:57:24 PM	Peak Integrated by Software

Manual Integration Report

Sequence:	VL011425	Instrument	MSVOA_I
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Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC001	VL041891.D	Trichloroethene	SAM	1/15/2025 11:01:22 AM	MMDadoda	1/15/2025 12:57:24 PM	Peak Integrated by Software
VSTDICC0.5	VL041892.D	1,2-Dichloropropane	SAM	1/15/2025 11:01:52 AM	MMDadoda	1/15/2025 12:57:35 PM	Peak Integrated by Software
VSTDICC0.5	VL041892.D	1,4-Dioxane	SAM	1/15/2025 11:01:52 AM	MMDadoda	1/15/2025 12:57:35 PM	Peak Integrated by Software
VSTDICC0.5	VL041892.D	4-Methyl-2-Pentanone	SAM	1/15/2025 11:01:52 AM	MMDadoda	1/15/2025 12:57:35 PM	Peak Integrated by Software
VSTDICC0.5	VL041892.D	Bromodichloromethane	SAM	1/15/2025 11:01:52 AM	MMDadoda	1/15/2025 12:57:35 PM	Peak Integrated by Software
VSTDICC0.5	VL041892.D	cis-1,3-Dichloropropene	SAM	1/15/2025 11:01:52 AM	MMDadoda	1/15/2025 12:57:35 PM	Peak Integrated by Software
VSTDICC0.5	VL041892.D	Dibromochloromethane	SAM	1/15/2025 11:01:52 AM	MMDadoda	1/15/2025 12:57:35 PM	Peak Integrated by Software
VSTDICC0.5	VL041892.D	Ethanol	SAM	1/15/2025 11:01:52 AM	MMDadoda	1/15/2025 12:57:35 PM	Peak Integrated by Software
VSTDICC0.5	VL041892.D	Hexane	SAM	1/15/2025 11:01:52 AM	MMDadoda	1/15/2025 12:57:35 PM	Peak Integrated by Software
VSTDICC0.5	VL041892.D	m/p-Xylene	SAM	1/15/2025 11:01:52 AM	MMDadoda	1/15/2025 12:57:35 PM	Peak Integrated by Software
VSTDICC0.5	VL041892.D	Methyl Methacrylate	SAM	1/15/2025 11:01:52 AM	MMDadoda	1/15/2025 12:57:35 PM	Peak Integrated by Software
VSTDICC0.5	VL041892.D	t-1,3-Dichloropropene	SAM	1/15/2025 11:01:52 AM	MMDadoda	1/15/2025 12:57:35 PM	Peak Integrated by Software
VSTDICC0.5	VL041892.D	Tetrachloroethene	SAM	1/15/2025 11:01:52 AM	MMDadoda	1/15/2025 12:57:35 PM	Peak Integrated by Software

Manual Integration Report

Sequence:	VL011425	Instrument	MSVOA_I
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Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDIC0.5	VL041892.D	Vinyl Acetate	SAM	1/15/2025 11:01:52 AM	MMDadoda	1/15/2025 12:57:35 PM	Peak Integrated by Software
VSTDIC0.1	VL041893.D	1,1,1-Trichloroethane	SAM	1/15/2025 11:02:52 AM	MMDadoda	1/15/2025 12:57:48 PM	Peak Integrated by Software
VSTDIC0.1	VL041893.D	1,2-Dibromoethane	SAM	1/15/2025 11:02:52 AM	MMDadoda	1/15/2025 12:57:48 PM	Peak Integrated by Software
VSTDIC0.1	VL041893.D	Carbon Tetrachloride	SAM	1/15/2025 11:02:52 AM	MMDadoda	1/15/2025 12:57:48 PM	Peak Integrated by Software
VSTDIC0.1	VL041893.D	Tetrachloroethene	SAM	1/15/2025 11:02:52 AM	MMDadoda	1/15/2025 12:57:48 PM	Peak Integrated by Software
VSTDIC0.1	VL041893.D	Trichloroethene	SAM	1/15/2025 11:02:52 AM	MMDadoda	1/15/2025 12:57:48 PM	Peak Integrated by Software
VSTDIC0.03	VL041894.D	Tetrachloroethene	SAM	1/15/2025 11:01:26 AM	MMDadoda	1/15/2025 12:57:52 PM	Peak Integrated by Software
VSTDIC0.03	VL041894.D	Trichloroethene	SAM	1/15/2025 11:01:26 AM	MMDadoda	1/15/2025 12:57:52 PM	Peak Integrated by Software
VSTDIC0.03	VL041894.D	Vinyl Chloride	SAM	1/15/2025 11:01:26 AM	MMDadoda	1/15/2025 12:57:52 PM	Peak Integrated by Software
VSTDIC015	VL041895.D	m/p-Xylene	SAM	1/15/2025 11:01:35 AM	MMDadoda	1/15/2025 12:57:56 PM	Peak Integrated by Software
VSTDICV010	VL041896.D	m/p-Xylene	SAM	1/15/2025 11:01:30 AM	MMDadoda	1/15/2025 12:58:01 PM	Peak Integrated by Software
VL0114ABS01	VL041899.D	m/p-Xylene	SAM	1/15/2025 11:02:57 AM	MMDadoda	1/15/2025 12:58:06 PM	Peak Integrated by Software
Q1073-04	VL041901.D	Carbon Tetrachloride	SAM	1/15/2025 11:02:02 AM	MMDadoda	1/15/2025 12:58:10 PM	Peak Integrated by Software

Manual Integration Report

Sequence:

VL011425

Instrument

MSVOA_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
Q1073-04	VL041901.D	Heptane	SAM	1/15/2025 11:02:02 AM	MMDadoda	1/15/2025 12:58:10 PM	Peak Integrated by Software
Q1073-04	VL041901.D	m/p-Xylene	SAM	1/15/2025 11:02:02 AM	MMDadoda	1/15/2025 12:58:10 PM	Peak Integrated by Software
Q1073-04	VL041901.D	Tetrachloroethene	SAM	1/15/2025 11:02:02 AM	MMDadoda	1/15/2025 12:58:10 PM	Peak Integrated by Software
Q1073-04DUP	VL041902.D	Carbon Tetrachloride	SAM	1/15/2025 11:02:07 AM	MMDadoda	1/15/2025 12:58:14 PM	Peak Integrated by Software
Q1073-04DUP	VL041902.D	m/p-Xylene	SAM	1/15/2025 11:02:07 AM	MMDadoda	1/15/2025 12:58:14 PM	Peak Integrated by Software
Q1073-04DUP	VL041902.D	Tetrachloroethene	SAM	1/15/2025 11:02:07 AM	MMDadoda	1/15/2025 12:58:14 PM	Peak Integrated by Software
Q1073-04DUP	VL041902.D	Trichlorofluoromethane	SAM	1/15/2025 11:02:07 AM	MMDadoda	1/15/2025 12:58:14 PM	Peak Integrated by Software
Q1073-05	VL041903.D	m/p-Xylene	SAM	1/15/2025 11:03:02 AM	MMDadoda	1/15/2025 12:58:18 PM	Peak Integrated by Software
Q1073-05	VL041903.D	Propene	SAM	1/15/2025 11:03:02 AM	MMDadoda	1/15/2025 12:58:18 PM	Peak Integrated by Software
Q1073-06	VL041904.D	Carbon Tetrachloride	SAM	1/15/2025 11:02:37 AM	MMDadoda	1/15/2025 12:58:22 PM	Peak Integrated by Software
Q1073-06	VL041904.D	Cyclohexane	SAM	1/15/2025 11:02:37 AM	MMDadoda	1/15/2025 12:58:22 PM	Peak Integrated by Software
Q1073-06	VL041904.D	Heptane	SAM	1/15/2025 11:02:37 AM	MMDadoda	1/15/2025 12:58:22 PM	Peak Integrated by Software
Q1073-06	VL041904.D	m/p-Xylene	SAM	1/15/2025 11:02:37 AM	MMDadoda	1/15/2025 12:58:22 PM	Peak Integrated by Software

Manual Integration Report

Sequence:	VL011425	Instrument	MSVOA_I
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Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
Q1073-06	VL041904.D	Propene	SAM	1/15/2025 11:02:37 AM	MMDadoda	1/15/2025 12:58:22 PM	Peak Integrated by Software
Q1073-06	VL041904.D	Tetrachloroethene	SAM	1/15/2025 11:02:37 AM	MMDadoda	1/15/2025 12:58:22 PM	Peak Integrated by Software
Q1073-01	VL041905.D	2-Hexanone	SAM	1/15/2025 11:02:11 AM	MMDadoda	1/15/2025 12:58:26 PM	Peak Integrated by Software
Q1073-01	VL041905.D	Tetrachloroethene	SAM	1/15/2025 11:02:11 AM	MMDadoda	1/15/2025 12:58:26 PM	Peak Integrated by Software
Q1073-01	VL041905.D	Toluene	SAM	1/15/2025 11:02:11 AM	MMDadoda	1/15/2025 12:58:26 PM	Peak Integrated by Software
Q1073-02	VL041906.D	Ethanol	SAM	1/15/2025 11:03:42 AM	MMDadoda	1/15/2025 12:58:30 PM	Peak Integrated by Software
Q1073-02	VL041906.D	Heptane	SAM	1/15/2025 11:03:42 AM	MMDadoda	1/15/2025 12:58:30 PM	Peak Integrated by Software
Q1073-03	VL041907.D	Ethanol	SAM	1/15/2025 11:03:48 AM	MMDadoda	1/15/2025 12:58:33 PM	Peak Integrated by Software
Q1073-03	VL041907.D	Heptane	SAM	1/15/2025 11:03:48 AM	MMDadoda	1/15/2025 12:58:33 PM	Peak Integrated by Software
Q1073-03	VL041907.D	Tetrachloroethene	SAM	1/15/2025 11:03:48 AM	MMDadoda	1/15/2025 12:58:33 PM	Peak Integrated by Software
Q1073-03	VL041907.D	Tetrahydrofuran	SAM	1/15/2025 11:03:48 AM	MMDadoda	1/15/2025 12:58:33 PM	Peak Integrated by Software
VSTDCCC010	VL041915.D	m/p-Xylene	SAM	1/15/2025 11:02:26 AM	MMDadoda	1/15/2025 12:59:14 PM	Peak Integrated by Software



284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900, Fax : 908 789 8922

Manual Integration Report

Sequence:

VL011425

Instrument

MSVOA_I

Sample ID

File ID

Parameter

Review By

Review On

Supervised
By

Supervised On

Reason

Instrument ID: **MSVOA_L**

Daily Analysis Runlog For Sequence/QC Batch ID # VL011425

Review By	Maresh Dadoda	Review On	1/15/2025 12:59:33 PM		
Supervise By	Semsettin Yesilyurt	Supervise On	1/15/2025 1:00:29 PM		
SubDirectory	VL011425	HP Acquire Method	TO15AIR.M	HP Processing Method	VL011425AIR.M
STD. NAME		STD REF.#			
Tune/Reschk		AP2569			
Initial Calibration Stds		AP2571,AP2572,AP2573			
CCC		AP2571			
Internal Standard/PEM		AP2569			
ICV/I.BLK		AP2574,MDL,AP2572,AP2573			
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

Sr#	Sampleld	Data File Name	Date-Time	Operator	Status
1	BFB	VL041887.D	14 Jan 2025 07:50	SY/MD	Ok
2	VSTDIC0.5	VL041888.D	14 Jan 2025 11:40	SY/MD	Not Ok
3	VSTDICCC010	VL041889.D	14 Jan 2025 12:55	SY/MD	Ok,M
4	VSTDIC002	VL041890.D	14 Jan 2025 13:28	SY/MD	Ok,M
5	VSTDIC001	VL041891.D	14 Jan 2025 13:59	SY/MD	Ok,M
6	VSTDIC0.5	VL041892.D	14 Jan 2025 14:30	SY/MD	Ok,M
7	VSTDIC0.1	VL041893.D	14 Jan 2025 15:01	SY/MD	Ok,M
8	VSTDIC0.03	VL041894.D	14 Jan 2025 15:32	SY/MD	Ok,M
9	VSTDIC015	VL041895.D	14 Jan 2025 16:05	SY/MD	Ok,M
10	VSTDICV010	VL041896.D	14 Jan 2025 17:33	SY/MD	Ok,M
11	VL0114ABL01	VL041897.D	14 Jan 2025 18:34	SY/MD	Ok
12	VL0114ABL02	VL041898.D	14 Jan 2025 19:05	SY/MD	Ok
13	VL0114ABS01	VL041899.D	14 Jan 2025 19:36	SY/MD	Ok,M
14	VIBLK	VL041900.D	14 Jan 2025 20:07	SY/MD	Ok
15	Q1073-04	VL041901.D	14 Jan 2025 20:40	SY/MD	Ok,M
16	Q1073-04DUP	VL041902.D	14 Jan 2025 21:14	SY/MD	Ok,M
17	Q1073-05	VL041903.D	14 Jan 2025 21:47	SY/MD	Ok,M
18	Q1073-06	VL041904.D	14 Jan 2025 22:21	SY/MD	Ok,M
19	Q1073-01	VL041905.D	14 Jan 2025 22:51	SY/MD	Ok,M
20	Q1073-02	VL041906.D	14 Jan 2025 23:22	SY/MD	Ok,M
21	Q1073-03	VL041907.D	14 Jan 2025 23:52	SY/MD	Ok,M

Instrument ID: **MSVOA_L**

Daily Analysis Runlog For Sequence/QC Batch ID # VL011425

Review By	Maresh Dadoda	Review On	1/15/2025 12:59:33 PM		
Supervise By	Semsettin Yesilyurt	Supervise On	1/15/2025 1:00:29 PM		
SubDirectory	VL011425	HP Acquire Method	TO15AIR.M	HP Processing Method	VL011425AIR.M
STD. NAME		STD REF.#			
Tune/Reschk		AP2569			
Initial Calibration Stds		AP2571,AP2572,AP2573			
CCC		AP2571			
Internal Standard/PEM		AP2569			
ICV/I.BLK		AP2574,MDL,AP2572,AP2573			
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

22	VIBLK	VL041908.D	15 Jan 2025 00:22	SY/MD	Ok
23	MDL 0.4	VL041909.D	15 Jan 2025 00:52	SY/MD	Ok,M
24	MDL 0.4	VL041910.D	15 Jan 2025 01:23	SY/MD	Ok,M
25	MDL 0.1	VL041911.D	15 Jan 2025 01:53	SY/MD	Ok,M
26	MDL 0.1	VL041912.D	15 Jan 2025 02:23	SY/MD	Ok,M
27	MDL 0.03	VL041913.D	15 Jan 2025 02:53	SY/MD	Ok,M
28	MDL 0.03	VL041914.D	15 Jan 2025 03:23	SY/MD	Ok,M
29	VSTDCCC010	VL041915.D	15 Jan 2025 08:37	SY/MD	Not Ok

M : Manual Integration

Instrument ID: MSVOA_L

Daily Analysis Runlog For Sequence/QC Batch ID # VL011425

Review By	Maresh Dadoda	Review On	1/15/2025 12:59:33 PM
Supervise By	Semsettin Yesilyurt	Supervise On	1/15/2025 1:00:29 PM
SubDirectory	VL011425	HP Acquire Method	TO15AIR.M
		HP Processing Method	VL011425AIR.M

STD. NAME	STD REF.#
Tune/Reschk	AP2569
Initial Calibration Stds	AP2571,AP2572,AP2573
CCC	AP2571
Internal Standard/PEM	AP2569
ICV/I.BLK	AP2574,MDL,AP2572,AP2573
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	Sampleld	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VL041887.D	14 Jan 2025 07:50		SY/MD	Ok
2	VSTDIC0.5	VSTDIC0.5	VL041888.D	14 Jan 2025 11:40	not used	SY/MD	Not Ok
3	VSTDICCC010	VSTDICCC010	VL041889.D	14 Jan 2025 12:55		SY/MD	Ok,M
4	VSTDIC002	VSTDIC002	VL041890.D	14 Jan 2025 13:28		SY/MD	Ok,M
5	VSTDIC001	VSTDIC001	VL041891.D	14 Jan 2025 13:59		SY/MD	Ok,M
6	VSTDIC0.5	VSTDIC0.5	VL041892.D	14 Jan 2025 14:30		SY/MD	Ok,M
7	VSTDIC0.1	VSTDIC0.1	VL041893.D	14 Jan 2025 15:01		SY/MD	Ok,M
8	VSTDIC0.03	VSTDIC0.03	VL041894.D	14 Jan 2025 15:32		SY/MD	Ok,M
9	VSTDIC015	VSTDIC015	VL041895.D	14 Jan 2025 16:05		SY/MD	Ok,M
10	VSTDICV010	ICVVL011425	VL041896.D	14 Jan 2025 17:33		SY/MD	Ok,M
11	VL0114ABL01	VL0114ABL01	VL041897.D	14 Jan 2025 18:34		SY/MD	Ok
12	VL0114ABL02	VL0114ABL02	VL041898.D	14 Jan 2025 19:05		SY/MD	Ok
13	VL0114ABS01	VL0114ABS01	VL041899.D	14 Jan 2025 19:36		SY/MD	Ok,M
14	VIBLK	VIBLK	VL041900.D	14 Jan 2025 20:07		SY/MD	Ok
15	Q1073-04	IA1	VL041901.D	14 Jan 2025 20:40		SY/MD	Ok,M
16	Q1073-04DUP	IA1DUP	VL041902.D	14 Jan 2025 21:14		SY/MD	Ok,M
17	Q1073-05	IA2	VL041903.D	14 Jan 2025 21:47		SY/MD	Ok,M
18	Q1073-06	IA3	VL041904.D	14 Jan 2025 22:21		SY/MD	Ok,M

Instrument ID: MSVOA_L

Daily Analysis Runlog For Sequence/QC Batch ID # VL011425

Review By	Maresh Dadoda	Review On	1/15/2025 12:59:33 PM
Supervise By	Semsettin Yesilyurt	Supervise On	1/15/2025 1:00:29 PM
SubDirectory	VL011425	HP Acquire Method	TO15AIR.M HP Processing Method VL011425AIR.M
STD. NAME	STD REF.#		
Tune/Reschk	AP2569		
Initial Calibration Stds	AP2571,AP2572,AP2573		
CCC	AP2571		
Internal Standard/PEM	AP2569		
ICV/I.BLK	AP2574,MDL,AP2572,AP2573		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

19	Q1073-01	SV1	VL041905.D	14 Jan 2025 22:51		SY/MD	Ok,M
20	Q1073-02	SV2	VL041906.D	14 Jan 2025 23:22		SY/MD	Ok,M
21	Q1073-03	SV3	VL041907.D	14 Jan 2025 23:52		SY/MD	Ok,M
22	VIBLK	VIBLK	VL041908.D	15 Jan 2025 00:22		SY/MD	Ok
23	MDL 0.4	MDL 0.4	VL041909.D	15 Jan 2025 00:52		SY/MD	Ok,M
24	MDL 0.4	MDL 0.4	VL041910.D	15 Jan 2025 01:23		SY/MD	Ok,M
25	MDL 0.1	MDL 0.1	VL041911.D	15 Jan 2025 01:53		SY/MD	Ok,M
26	MDL 0.1	MDL 0.1	VL041912.D	15 Jan 2025 02:23		SY/MD	Ok,M
27	MDL 0.03	MDL 0.03	VL041913.D	15 Jan 2025 02:53		SY/MD	Ok,M
28	MDL 0.03	MDL 0.03	VL041914.D	15 Jan 2025 03:23		SY/MD	Ok,M
29	VSTDCCC010	VSTDCCC010EC	VL041915.D	15 Jan 2025 08:37	out of tune	SY/MD	Not Ok

M : Manual Integration

* Submittal of this COC indicates approval of the analysis based on existing conditions.

REPORT ONLY: 2CE TCE, cis-1,2-DCE, 1,1-DCE
VINYL CHLORIDE

Please follow the instructions on the back of this COC

Client Contact Information		Bottle Order ID : B2501005	Courier : <u>F. GARDUN</u>	1 of 6 COCs
Client ID : GFELO1	Project ID : 10 Woodbridge Ct, Forest Park, NY	Sampler Name(s) : <u>FRANK GARDUN</u>		
Customer Name : GFE LLC	Project Manager : FRANK GARDUN	Analysis Matrix		
Address : 58 Nokomis Ave	Phone Number : 646-542-3465	AIR ANALYSIS		
	Fax Number : 973-334-1692	CHAIN-OF-CUSTODY		
	Site Details: 720 W. 181st St. NY, NY	Batch Certified		
City : Lake Hiawatha	Analysis Turnaround Time 5 DAY			
State : NJ	Standard : 10 Business days OR 5 Days			
Zip Code : 07034	Rush (Specify):	Data Package Type : RESULTS ONLY		
Country :		EDD Type : RDE		
Sample Identification	Time Start (24 hr Clock)	Time Stop (24 hr Clock)	Can Vacuum in Field ("Hg) (Start)	Can Vacuum in Field ("Hg) (Stop)**
SVI	11/24 8:38	10:30	5	5
	Interior Temp. (F) (Start)	Interior Temp. (F) (Stop)	Out going Can Pressure ("Hg)(Lab)	In coming Can Pressure ("Hg)(Lab)
	69	69	-30	-5.5
	Flow Reg. ID	Can ID	Flow Controller Readout (ml/min)	Can Cert ID
	10616	10439	50	VL041612.D
	TO-15			Indoor/Ambient Air
				Soil Gas
				1
GC/MS Analyst Signature (TO-15) <u>Sub</u>				
** Submittal of this COC indicates approval of the analysis based on existing conditions. REPORT ONLY PCE, TCE, cis-1,2-DCE, 1,1,1-TCA, 1,1-DCE, VINYL CHLORIDE Please follow the instructions on the back of this COC.				
Special Instructions/QC Requirements & Comments :				
Suspected Contamination: High Medium Low				
Sampling site (State):				
Quick Connector required : NO				
Canisters Shipped by: <u>Sub</u>				
Samples Relinquished by: <u>Sub</u>				
Relinquished by:				
Date/Time: 1-13-25 0800				
Date/Time:				
Date/Time:				
B2501005 - 7				

Client Contact Information		Bottle Order ID : B2501005	Courier : FRANK GILDUN	2 of 6 COCs																													
Client ID : GFE01	Project ID : 10-Workline CT, Mount Park	Sampler Name(s) : FRANK GILDUN																															
Customer Name : GFE LLC	Project Manager : FRANK GILDUN	Analysis																															
Address : 58 Nokomis Ave	Phone Number : 646-542-3465	Matrix																															
	Fax Number : 973-334-1692																																
	Site Details: 720 W. 18th St NY, NY																																
City : Lake Hiawatha	Analysis Turnaround Time 5 DAY																																
State : NJ	Standard : 10-business days OR 5 Days																																
Zip Code : 07034	Rush (Specify):																																
Country :																																	
Sample Identification	Sample Date(s)	Time Start (24 hr Clock)	Time Stop (24 hr Clock)	Can Vacuum in Field ("Hg) (Start)	Can Vacuum in Field ("Hg) (Stop)**	Interior Temp. (F) (Start)	Interior Temp. (F) (Stop)	Out going Can Pressure ("Hg)(Lab)	In coming Can Pressure ("Hg)(Lab)	Flow Reg. ID	Can ID	Flow Controller Readout (ml/min)	Can Cert ID	Indoor/Ambient Air	Soil Gas																		
SUZ	11/24/08	10:40	3:5	69	69	-30	-6.7	10109	10321	6 L	50	VL041612.D	TO-15																				
Temperature (Fahrenheit) <table border="1"> <tr> <td>Ambient</td> <td>Maximum</td> <td>Minimum</td> </tr> <tr> <td>Start</td> <td></td> <td></td> </tr> <tr> <td>Stop</td> <td></td> <td></td> </tr> </table> Pressure (Inches of Hg) <table border="1"> <tr> <td>Ambient</td> <td>Maximum</td> <td>Minimum</td> </tr> <tr> <td>Start</td> <td></td> <td></td> </tr> <tr> <td>Stop</td> <td></td> <td></td> </tr> </table>																Ambient	Maximum	Minimum	Start			Stop			Ambient	Maximum	Minimum	Start			Stop		
Ambient	Maximum	Minimum																															
Start																																	
Stop																																	
Ambient	Maximum	Minimum																															
Start																																	
Stop																																	
GC/MS Analyst Signature (TO-15) <i>[Signature]</i>																																	
** Submittal of this COC Indicates approval of the analysis based on existing conditions. Report only: PCE, TCE, cis-1,2-DCE, 1,1-DCE, 1,1,1-TCA, UNVOLATILE Please follow the instructions on the back of this COC.																																	
Special Instructions/QC Requirements & Comments :																																	
Suspected Contamination: High Medium Low PID Readings: 0.0																																	
Sampling site (State):																																	
Quick Connector required : NO																																	
Canisters Shipped by: <i>[Signature]</i> Date/Time: 11-13-25 0700																																	
Samples Relinquished by: <i>[Signature]</i> Date/Time: 11/25																																	
Relinquished by: <i>[Signature]</i> Date/Time: 11/25																																	
B2501005 - 5																																	

Client Contact Information		Bottle Order ID : B2501005	Courier : F. Galdun	3 of 6 COCs																				
Client ID : GFELO1	Project ID : 10-woodbine-st, Forest Park-NY	Sampler Name(s) : FRANK Galdun																						
Customer Name : GFE LLC	Project Manager : FRANK Galdun	AIR ANALYSIS CHAIN-OF-CUSTODY Batch Certified																						
Address : 58 Nokomis Ave	Phone Number : 646-542-3465																							
	Fax Number : 973-334-1692																							
	Site Details : 120 W. 181st St. NY, NY																							
City : Lake Hiawatha	Analysis Turnaround Time : 5 DAY																							
State : NJ	Standard : 10-business days OR 5 Days																							
Zip Code : 07034	Rush (Specify) : 5 Days																							
Country : USA																								
Sample Identification	Sample Date(s)	Time Start (24 hr Clock)	Time Stop (24 hr Clock)	Can Vacuum In Field ("Hg) (Start)	Can Vacuum In Field ("Hg) (Stop)**	Interior Temp. (F) (Start)	Interior Temp. (F) (Stop)	Out going Can Pressure ("Hg)(Lab)	In coming Can Pressure ("Hg)(Lab)	Flow Reg. ID	Can ID	Flow Controller Readout (ml/min)	Can Cert ID	Indoor/Ambient Air	Soil Gas									
SV3	11/15/05	8:55	10:55	30	5	70	70	-30	-6.7	10185	10602	50	VL041612.D		1									
Temperature (Fahrenheit) <table border="1"> <tr> <td>Ambient</td> <td>Maximum</td> <td>Minimum</td> </tr> <tr> <td>Start</td> <td></td> <td></td> </tr> <tr> <td>Stop</td> <td></td> <td></td> </tr> </table>																Ambient	Maximum	Minimum	Start			Stop		
Ambient	Maximum	Minimum																						
Start																								
Stop																								
Pressure (Inches of Hg) <table border="1"> <tr> <td>Ambient</td> <td>Maximum</td> <td>Minimum</td> </tr> <tr> <td>Start</td> <td></td> <td></td> </tr> <tr> <td>Stop</td> <td></td> <td></td> </tr> </table>																Ambient	Maximum	Minimum	Start			Stop		
Ambient	Maximum	Minimum																						
Start																								
Stop																								
Special Instructions/QC Requirements & Comments : PID Readings: 0.0 GC/MS Analyst Signature (TO-15) : ** Submittal of this COC indicates approval of the analysis based on existing conditions. REPORT ONLY: TCE, PCE, cis-1,2-DCE, 1,1-DCE, 1,1,1-TCA, VINYL CHLORIDE Please follow the instructions on the back of this COC.																								
Suspected Contamination: High Medium Low																								
Sampling site (State):																								
Quick Connector required : No																								
Canisters Shipped by: Sam																								
Samples Relinquished by: Sam																								
Relinquished by:																								
Date/Time: 1-13-25 0700																								
Date/Time:																								
Date/Time:																								
B2501005 - 11																								

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Client Contact Information		Bottle Order ID : B2501005		Courier : F Galdun		6 of 6 COCs																		
Client ID : GFEL01		Project ID : 10 Woodbine CT, Floral Park NY		Sampler Name(s) : FRANK Galdun		Analysis Matrix																		
Customer Name : GFE LLC		Project Manager : FRANK Galdun		AIR ANALYSIS																				
Address : 58 Nokomis Ave		Phone Number : 646-542-3465		CHAIN-OF-CUSTODY																				
		Fax Number : 973-334-1692		Batch Certified																				
City : Lake Hiawatha		Site Details : 120 W. 181st St. NY, NY																						
State : NJ		Analysis Turnaround Time : 5 DAY																						
Zip Code : 07034		Standard : 10 Business Days		Data Package Type : RESULTS ONLY																				
Country : USA		Rush (Specify) : 5 Days		EDD Type : RDE																				
Sample Identification	Sample Date(s)	Time Start (24 hr Clock)	Time Stop (24 hr Clock)	Can Vacuum in Field ("Hg) (Start)	Can Vacuum in Field ("Hg) (Stop)**	Interior Temp. (F) (Start)	Interior Temp. (F) (Stop)	Out going Can Pressure ("Hg)(Lab)	In coming Can Pressure ("Hg)(Lab)	Flow Reg. ID	Can ID	Flow Controller Readout (ml/min)	Can Cert ID	Indoor Ambient Air	Soil Gas									
11/16/18	11/16/18	8:23	10:23	6	6	70	70	-30	-7.1	10485	10333	12.5	VL041612.D	(	(									
Temperature (Fahrenheit) <table border="1"> <tr> <td>Ambient</td> <td>Maximum</td> <td>Minimum</td> </tr> <tr> <td>Start</td> <td></td> <td></td> </tr> <tr> <td>Stop</td> <td></td> <td></td> </tr> </table>																Ambient	Maximum	Minimum	Start			Stop		
Ambient	Maximum	Minimum																						
Start																								
Stop																								
Pressure (Inches of Hg) <table border="1"> <tr> <td>Ambient</td> <td>Maximum</td> <td>Minimum</td> </tr> <tr> <td>Start</td> <td></td> <td></td> </tr> <tr> <td>Stop</td> <td></td> <td></td> </tr> </table>																Ambient	Maximum	Minimum	Start			Stop		
Ambient	Maximum	Minimum																						
Start																								
Stop																								
GC/MS Analyst Signature (TO-15) <i>[Signature]</i>																								
**Submittal of this COC indicates approval of the analysis based on existing conditions. Report only: PCE, TCE, cis-1,2-DCE, 1,1-DCE, 1,1,1-TCA, VINYL CHLORIDE Please follow the instructions on the back of this COC.																								
Special Instructions/QC Requirements & Comments :																								
Suspected Contamination: High Medium Low PID Readings: 0.0																								
Sampling site (State):																								
Quick Connector required : No																								
Canisters Shipped by: Sam																								
Samples Relinquished by: Sam																								
Relinquished by:																								
Date/Time: 11/16/18																								
Date/Time: 11/16/18																								
Date/Time: 11/16/18																								
Date/Time: 11-13-25 0900																								
Date/Time: 11-13-25 0900																								
Date/Time: 11-13-25 0900																								
B2501005 - 6																								

Internal Chain of Custody

Instructions: Use 1 form for each 20 samples of aliquot

Laboratory Person Breaking Field Seal on Sample Shuttle & Accepting Responsibility for Sample

Laboratory: Chemtech

Location: 284 Sheffield Street, Mountainside, NJ 7092

GORSE

Title: Sample Custodian

Field Sample Seal No. Q1073

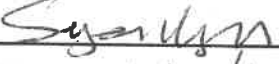
Date Broken 1/13/2025

Military Time Seal Broken: 07:00:00

Case No.: 720 W. 181st NY, NY

Analytical Parameter/Fraction WOCMS Group3

Sample No.	Aliquot/Extract No.	Sample No.	Aliquot/Extract No.
Q1073-01	SV1		
Q1073-02	SV2		
Q1073-03	SV3		
Q1073-04	IA1		
Q1073-05	IA2		
Q1073-06	IA3		

Date	Time	Relinquished By	Received By	Purpose of Change of Custody
1/13	1050	Signature 	Signature 	
		Printed Name <u>GORSE N</u>	Printed Name <u>Sample Custodian</u>	
		Signature	Signature	
		Printed Name	Printed Name	
		Signature	Signature	
		Printed Name	Printed Name	
		Signature	Signature	
		Printed Name	Printed Name	
		Signature	Signature	
		Printed Name	Printed Name	
		Signature	Signature	
		Printed Name	Printed Name	
		Signature	Signature	
		Printed Name	Printed Name	

Distribution: White - Original (Sent With Report)

Yellow - Contractor Archive

Pink - Sample Custodian - Interim Copy

Analyst Signature:

Supervisor Signature:

Pressure Gauge ID:

A2-55971/0511064

Document Control # A3041228

Process Report

284 Sheffield Street, Mountainside, New Jersey 07092 Phone : 908 789 8900 Fax : 908 789 8922

Order ID : Q1073

Date	Bottle ID	Lab Sample Number	InComing Vacuum	Canister ID	Can Size	Reg ID	Reg Size	Batch Code	Certification ID
01/13/2025	B2501005	Q1073-06	-7.1	10333	6 L	10485		C2409001	VL041612.D Seq :vl091824 TUNE : VL041600.D ICAL : VL041597.D CCAL : VL041601.D MB : VL041602.D
01/13/2025	B2501005	Q1073-01	-5.5	10439	6 L	10616		C2409001	VL041612.D Seq :vl091824 TUNE : VL041600.D ICAL : VL041597.D CCAL : VL041601.D MB : VL041602.D
01/13/2025	B2501005	Q1073-03	-6.7	10602	6 L	10185		C2409001	VL041612.D Seq :vl091824 TUNE : VL041600.D ICAL : VL041597.D CCAL : VL041601.D MB : VL041602.D
01/13/2025	B2501005	Q1073-04	-3.1	10596	6 L	10690		C2408001	VL041507.D Seq :VL080824 TUNE : VL041502.D ICAL : VL041404.D CCAL : VL041503.D MB : VL041504.D
01/13/2025	B2501005	Q1073-02	-6.7	10321	6 L	10109		C2409001	VL041612.D Seq :vl091824 TUNE : VL041600.D ICAL : VL041597.D CCAL : VL041601.D MB : VL041602.D
01/13/2025	B2501005	Q1073-05	-4.3	10296	6 L	10514		C2409001	VL041612.D Seq :vl091824 TUNE : VL041600.D ICAL : VL041597.D CCAL : VL041601.D MB : VL041602.D

10296 -3.1

CHEMTECH
284 Sheffield Street, Mountainside, NJ 07092 P: (908) 789-8900

Client Sample ID #: IA1
Client Name: GFE
Project Name: W-181ST
Date: 11/11 Time: 10-15
Analysis: 10-15
Comments: 10-15

CHEMTECH'S SAMPLE ID: _____
Date Received: _____ Expiration Date: _____ Date of D: _____

Storage Location: VOA Lab
Sample: Q1073-04
Cust #: IA1

132501005

10296 -4.3

CHEMTECH
284 Sheffield Street, Mountainside, NJ 07092 P: (908) 789-8900

Client Sample ID #: IA2
Client Name: GFE
Project Name: W-181ST
Date: 11/11 Time: 10-15
Analysis: 10-15
Comments: 10-15

CHEMTECH'S SAMPLE ID: _____
Date Received: _____ Expiration Date: _____ Date of D: _____

Storage Location: VOA Lab
Sample: Q1073-05
Cust #: IA2

10296 -4.3

CHEMTECH
284 Sheffield Street, Mountainside, NJ 07092 P: (908) 789-8900

Client Sample ID #: IA3
Client Name: GFE
Project Name: W-181ST
Date: 11/11 Time: 10-15
Analysis: 10-15
Comments: 10-15

CHEMTECH'S SAMPLE ID: _____
Date Received: _____ Expiration Date: _____ Date of D: _____

Storage Location: VOA Lab
Sample: Q1073-06
Cust #: IA3

132501005

10439

-55

284 Sheffield Street, Mountainside, NJ 07092 P: (908) 789-8922

CHEMTECH

Client Sample ID #: SV1
Client Name: W 181ST ST
Project Name: W 181ST ST
Date: 11/11 Time: 10-15
Analysis: 11/11
Comments: 11/11
CHEMTECH'S SAMPLE ID: _____
Date Received: _____ Expiration Date: _____ Date: _____

Storage Location: VOA Lab
Sample: Q1073-01
Cust #: SV1

B2501005

10321

-67

284 Sheffield Street, Mountainside, NJ 07092 P: (908) 789-8922

CHEMTECH

Client Sample ID #: SV2
Client Name: W 181ST ST
Project Name: W 181ST ST
Date: 11/11 Time: 10-15
Analysis: 11/11
Comments: 11/11
CHEMTECH'S SAMPLE ID: _____
Date Received: _____ Expiration Date: _____ Date: _____

Storage Location: VOA Lab
Sample: Q1073-02
Cust #: SV2

B2501005

10439

20901

284 Sheffield Street, Mountainside, NJ 07092 P: (908) 789-8922

CHEMTECH

Client Sample ID #: SV3
Client Name: GFE
Project Name: W 181ST ST
Date: 11/11 Time: 10-15
Analysis: 11/11
Comments: 11/11
CHEMTECH'S SAMPLE ID: _____
Date Received: _____ Expiration Date: _____ Date: _____

Storage Location: VOA Lab
Sample: Q1073-03
Cust #: SV3

89-8922

B2501005