



SHIPPING DOCUMENTS

Client Contact Information				Bottle Order ID : B2511013				Courier : F Galdun				<u>1</u> of <u>6</u> COCs																
Client ID : GFEL01				Project ID : 74-16 Cypress Hill St, Glendale NY				Sampler Name(s) : FRANK GILDUN				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: 316 to 326 Westbury Ave CARLE PLACE NY																								
City : Lake Hiawatha				Analysis Turnaround Time 5 DAY				Data Package Type : RESULTS ONLY																				
State : NJ				Standard : 10 business days OR																								
Zip Code : 07034				Rush (Specify): 5 Days				EDD Type : PDF																				
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												
SVI	11/11/25	12:04	12:04	0.30	0.30	68	68	-30	-5.5	10528	10281	6 L	50	VL043047.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>											Ambient	Maximum	Minimum	Start				Stop				GC/MS Analyst Signature (TO-15) 						
	Ambient	Maximum	Minimum																									
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	Ambient	Maximum	Minimum																									
Start																												
Stop																												
Special Instructions/QC Requirements & Comments :																												
Suspected Contamination: High Medium <u>Low</u> PID Readings: <u>0.1</u>																												
Sampling site (State):																												
Quick Connector required : <u>NO</u>																												
Canisters Shipped by:				Date/Time: <u>11/10/25</u>				Canisters Received by:				Date/Time: <u>11-14-25 12:28</u>																
Samples Relinquished by:				Date/Time: <u>11-14-25</u>				Received by:				Date/Time: <u>11-14-25 12:28</u>																
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Client Contact Information				Bottle Order ID : B2511013				Courier : F Galdun				2 of 6 COCs																	
Client ID : GFEL01				Project ID : 74-16 Cypress Hill St, Glendale NY				Sampler Name(s) : FRANK Galdun				Analysis		Matrix															
Customer : GFE LLC Name : Address : 58 Nokomis Ave				Project Manager : FRANK Galdun				AIR ANALYSIS CHAIN-OF-CUSTODY Batch Certified																					
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SUZ	11/15	9:33	11:33	OVER 30	3	68	68	-30	-3.9	10707	10606	6 L	50	VL043047.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>											Ambient	Maximum	Minimum	Start				Stop				GC/MS Analyst Signature (TO-15) 							
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	Ambient	Maximum	Minimum																										
Start																													
Stop																													
Special Instructions/QC Requirements & Comments :																													
Suspected Contamination: High Medium Low PID Readings: 0.1																													
Sampling site (State):																													
Quick Connector required : NO																													
Canisters Shipped by: Sam				Date/Time: 11/10/15				Canisters Received by:				Date/Time:																	
Samples Relinquished by: FEL				Date/Time: 11/14/25				Received by:				Date/Time: 11-14-25 12:30																	
Relinquished by:				Date/Time: 11-14-25 13:23				Received by:				Date/Time:																	
B2511013 - 6																													

Client Contact Information				Bottle Order ID : B2511013				Courier : F Galdun				<u>3</u> of <u>6</u> COCs																
Client ID : GFEL01 Project ID : 74-16 Cypress Hill St, Glendale 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: 316-318 WESTBURY AVE CARLE PLACE, NY 5 DAY																								
Analysis Turnaround Time				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												
IAI	11/14/25	10:02	12:02	10.0	10.0	68	68	-30	-4.3	10767	10331	6 L	50	VL043047.D	1	1												
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>											Ambient	Maximum	Minimum	Start				Stop				GC/MS Analyst Signature (TO-15) [Signature]						
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Start																												
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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>[Signature]</u>				Date/Time: <u>11/10/25</u>				Canisters Received by: <u>[Signature]</u>				Date/Time: <u>11-14-25 1230</u>																
Samples Relinquished by: <u>[Signature]</u>				Date/Time: <u>11-14-25</u>				Received by: <u>[Signature]</u>				Date/Time: <u>11-14-25 1230</u>																
Relinquished by: <u>[Signature]</u>				Date/Time: <u>11-14-25 1323</u>				Received by: <u>[Signature]</u>				Date/Time: <u>11-14-25 1323</u>																

Client Contact Information				Bottle Order ID : B2511012				Courier : F. Galdun				4 of 6 COCs				
Client ID : GFEL01				Project ID : 74-16 Cypress Hill St, Glendale NY				Sampler Name(s) : FRANK GILDUN				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: 316-318 WESTBURY AVE CARLE PLACE, NY												
City : Lake Hiawatha				Analysis Turnaround Time 5 DAY				Data Package Type : RESULTS ONLY								
State : NJ				Standard : 10 business days OR				EDD Type : PDF								
Zip Code : 07034				Rush (Specify): 5 Days												
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
IAZ	11/1/25	9:29	11:29	4.5	4.5	68	68	-30	-4.7	10185	10320	6 L	50	VL043048.D	1	1
Temperature (Fahrenheit) Ambient Maximum Minimum Start Stop										GC/MS Analyst Signature (TO-15) 						
Pressure (Inches of Hg) Ambient Maximum Minimum Start Stop										** Submittal of this COC indicates approval of the analysis based on existing conditions. REPORT ONLY THOSE ANALYTES ON THE ATTACHED LIST Please follow the instructions on the back of this COC.						
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>11/20/25</u>				Canisters Received by: 				Date/Time: <u>11-19-25 12:0</u>				
Samples Relinquished by: 				Date/Time: <u>11/14/25</u>				Received by: 				Date/Time: <u>11-14-25 1323</u>				
Relinquished by: 																

Client Contact Information				Bottle Order ID : B2511012				Courier : F Galdun				<u>5</u> of <u>6</u> COCs			
Client ID : GFEL01				Project ID : 74-16-6-223 Hill St, Glendale NY				Sampler Name(s) : FRANK Galdun				Analysis		Matrix	
Customer Name : GFE LLC Address : 58 Nokomis Ave				Project Manager : FRANK Galdun				AIR ANALYSIS CHAIN-OF-CUSTODY Batch Certified							
				Phone Number : 646-542-3465											
				Fax Number : 973-334-1692											
				Site Details: 316318 Westbury Ave CARLE PLACE, NY											
City : Lake Hiawatha				Analysis Turnaround Time 5 DAY				Data Package Type : RESULTS ONLY							
State : NJ				Standard : 10-business days OR				EDD Type : PDF							
Zip Code : 07034				Rush (Specify): 5 Days											
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
SV3	11/14/25	9:03	11:04	30	30	68	68	-30	-3.9	10648	10315	6 L	50	VL043048.D	1		1

Temperature (Fahrenheit)					GC/MS Analyst Signature (TO-15) Sgt
	Ambient	Maximum	Minimum		
Start					
Stop					

Pressure (Inches of Hg)					** Submittal of this COC indicates approval of the analysis based on existing conditions. REPORT ONLY THOSE ANALYTES ON THE ATTACHED LIST 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: **0.2**

Sampling site (State):

Quick Connector required : **NO**

Canisters Shipped by: SGM	Date/Time: 11/10/25	Canisters Received by: [Signature]	Date/Time: 11/14/25
Samples Relinquished by: FRANK	Date/Time: 11-14-25	Received by: [Signature]	Date/Time: 11-14-25 1230
Relinquished by: [Signature]	Date/Time: 11-14-25 1323	Received by: [Signature]	Date/Time:

B2511012 - 6

Client Contact Information				Bottle Order ID : B2511012				Courier : F Galdun				6 of 6 COCs																											
Client ID : GFEL01				Project ID : 74-06 Cypress Hill St, Ste 101, NY				Sampler Name(s) : Frank Galdun				Analysis		Matrix																									
Customer Name : GFE LLC Address : 58 Nokomis Ave				Project Manager : FRANK GALDUN				AIR ANALYSIS CHAIN-OF-CUSTODY Batch Certified																															
				Phone Number : 646-542-3465																																			
				Fax Number : 973-334-1692																																			
				Site Details: 316 to 318 Westbury Ave CARLE PLACE, NY																																			
City : Lake Hiawatha				Analysis Turnaround Time 5 DAY				TO-15 Indoor Ambient Air Soil Gas																															
State : NJ				Standard : 10 business days OR																																			
Zip Code : 07034				Data Package Type :																																			
Country :				Rush (Specify): 5 Days				EDD Type :																															
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IA3	11/14/25	9:04	11:04	OVER 30	5	68	68	-29	-3.9	10616	10280	6 L	50	VL043048.D	1																								
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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: 11/14/25				Canisters Received by:				Date/Time:																											
Samples Relinquished by: Sam				Date/Time: 11/14/25				Received by:				Date/Time: 11-14-25 1230																											
Relinquished by:				Date/Time: 11-14-25 1328				Received by:				Date/Time:																											

OrgeChem

From: frankg4@optonline.net
Sent: Monday, November 17, 2025 8:53 AM
Subject: Re: Missing analysis list
Attachments: REQUESTED ANALYTE LIST.docx

EXTERNAL EMAIL - This email was sent by a person from outside your organization. Exercise caution when clicking links, opening attachments or taking further action, before validating its authenticity.

Secured by Check Point

Deepak, see attached.

Frank

----- Original Message -----

From: Deepak.Parmar@alliancetg.com
To: Frankg4@optonline.net
Sent: Friday, November 14th 2025, 15:50
Subject: Missing analysis list

hi,

sample received without analysis list, Please send the analysis list for both site,

Thanks & Regards,



Deepak Parmar

Sr. Project Manager

An Alliance Technical Group Company

Main: 908-789-8900

Direct: 908-728-3154

Address: 284 Sheffield St, Ste 1, Mountainside, NJ 07092

www.alliancetg.com



REQUESTED ANALYTE LIST:

PCE

TCE

cis-1,2-DCE

1,1,1-TCA

1,1-DCE

Vinyl chloride

Benzene

Toluene

Ethylbenzene

Naphthalene

Cyclohexane

2,2,4-Trimethylpentane

1,2,4-Trimethylbenzene

1,3,5-Trimethylbenzene

o-xylene

m,p-xylene

Heptane

Hexane

Laboratory Certification

Certified By	License No.
Connecticut	PH-0830
DOD ELAP (ANAB)	L2219
Maine	2024021
Maryland	296
New Hampshire	255425
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	525-24-234-08441
Texas	TX-C25-00189
Virginia	460312

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

NOTE:

Title: Sample Custodian

Field Sample Seal No. Q3651

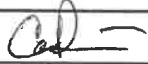
Date Broken 11/14/2025

Military Time Seal Broken: 12:30:00

Case No.: 316 TO 326 WESTBURY AV

Analytical Parameter/Fraction MOCMS Group2

Sample No.	Aliquot/Extract No.	Sample No.	Aliquot/Extract No.
Q3651-01	SV1		
Q3651-02	SV2		
Q3651-03	IA1		
Q3651-04	IA2		
Q3651-05	SV3		
Q3651-06	IA3		

Date	Time	Relinquished By	Received By	Purpose of Change of Custody
11/17/25	10:05	Signature 	Signature 	
		Printed Name <u>Cassanova Peric</u>	Printed Name <u>Cassanova Peric</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

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:	Q3651	OrderDate:	11/14/2025 3:39:00 PM
Client:	GFE LLC	Project:	316 TO 326 WESTBURY AVE
Contact:	Frank Galdun	Location:	Air Lab, VOA Lab

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q3651-01	SV1	Air	VOCMS Group2	TO-15	11/11/25		11/18/25	11/14/25
Q3651-02	SV2	Air	VOCMS Group2	TO-15	11/11/25		11/18/25	11/14/25
Q3651-03	IA1	Air	VOCMS Group2	TO-15	11/11/25		11/18/25	11/14/25
Q3651-03DL	IA1DL	Air	VOCMS Group2	TO-15	11/11/25		11/18/25	11/14/25
Q3651-04	IA2	Air	VOCMS Group2	TO-15	11/11/25		11/18/25	11/14/25
Q3651-04DL	IA2DL	Air	VOCMS Group2	TO-15	11/11/25		11/19/25	11/14/25
Q3651-05	SV3	Air	VOCMS Group2	TO-15	11/11/25		11/18/25	11/14/25
Q3651-06	IA3	Air	VOCMS Group2	TO-15	11/11/25		11/18/25	11/14/25
Q3651-06DL	IA3DL	Air	VOCMS Group2	TO-15	11/11/25		11/19/25	11/14/25

Hit Summary Sheet SW-846

SDG No.: Q3651

Client: GFE LLC

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID:	SV1							
Q3651-01	SV1	Air	Heptane	15.6		2.79	8.20	ug/m3
Q3651-01	SV1	Air	Cyclohexane	4.47	J	3.03	6.88	ug/m3
Q3651-01	SV1	Air	Benzene	3.19	J	1.02	6.39	ug/m3
Q3651-01	SV1	Air	Toluene	46.0		2.41	7.54	ug/m3
Q3651-01	SV1	Air	Tetrachloroethene	1.08		0.41	0.81	ug/m3
Q3651-01	SV1	Air	Ethyl Benzene	5.21	J	3.30	8.69	ug/m3
Q3651-01	SV1	Air	m/p-Xylene	14.3	J	6.95	17.4	ug/m3
Q3651-01	SV1	Air	o-Xylene	6.95	J	3.65	8.69	ug/m3
Q3651-01	SV1	Air	1,2,4-Trimethylbenzene	4.52	J	3.54	9.83	ug/m3
Q3651-01	SV1	Air	Hexane	73.3		2.26	7.05	ug/m3
Total Voc :				175				
Total Concentration:				175				
Client ID:	SV2							
Q3651-02	SV2	Air	Heptane	8.61		2.79	8.20	ug/m3
Q3651-02	SV2	Air	Cyclohexane	4.47	J	3.03	6.88	ug/m3
Q3651-02	SV2	Air	1,1,1-Trichloroethane	2.07		0.33	0.65	ug/m3
Q3651-02	SV2	Air	2,2,4-Trimethylpentane	2.66	J	2.62	9.34	ug/m3
Q3651-02	SV2	Air	Benzene	1.85	J	1.02	6.39	ug/m3
Q3651-02	SV2	Air	Toluene	107		2.41	7.54	ug/m3
Q3651-02	SV2	Air	Tetrachloroethene	6.71		0.41	0.81	ug/m3
Q3651-02	SV2	Air	Ethyl Benzene	8.69		3.30	8.69	ug/m3
Q3651-02	SV2	Air	m/p-Xylene	27.8		6.95	17.4	ug/m3
Q3651-02	SV2	Air	o-Xylene	9.56		3.65	8.69	ug/m3
Q3651-02	SV2	Air	1,2,4-Trimethylbenzene	4.52	J	3.54	9.83	ug/m3
Q3651-02	SV2	Air	Hexane	22.9		2.26	7.05	ug/m3
Total Voc :				207				
Total Concentration:				207				
Client ID:	IA1							
Q3651-03	IA1	Air	Vinyl Chloride	0.13		0.080	0.080	ug/m3
Q3651-03	IA1	Air	Heptane	2.70		0.70	2.05	ug/m3
Q3651-03	IA1	Air	Cyclohexane	1.07	J	0.76	1.72	ug/m3
Q3651-03	IA1	Air	Benzene	0.58	J	0.26	1.60	ug/m3
Q3651-03	IA1	Air	Toluene	678	E	0.60	1.88	ug/m3
Q3651-03	IA1	Air	Tetrachloroethene	0.27		0.14	0.20	ug/m3
Q3651-03	IA1	Air	Ethyl Benzene	6.52		0.83	2.17	ug/m3
Q3651-03	IA1	Air	m/p-Xylene	28.2		1.78	4.34	ug/m3

Hit Summary Sheet SW-846

SDG No.: Q3651

Client: GFE LLC

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Q3651-03	IA1	Air	o-Xylene	7.82		0.91	2.17	ug/m3
Q3651-03	IA1	Air	1,2,4-Trimethylbenzene	2.90		0.88	2.46	ug/m3
Q3651-03	IA1	Air	Naphthalene	0.63		0.050	0.52	ug/m3
Total Voc :				729				
Total Concentration:				729				
Client ID:	IA1DL							
Q3651-03DL	IA1DL	Air	Toluene	980	D	12.1	37.7	ug/m3
Total Voc :				980				
Total Concentration:				980				
Client ID:	IA2							
Q3651-04	IA2	Air	Heptane	11.1		0.70	2.05	ug/m3
Q3651-04	IA2	Air	Cyclohexane	9.64		0.76	1.72	ug/m3
Q3651-04	IA2	Air	2,2,4-Trimethylpentane	7.94		0.65	2.34	ug/m3
Q3651-04	IA2	Air	Benzene	1.12	J	0.26	1.60	ug/m3
Q3651-04	IA2	Air	Toluene	246	E	0.60	1.88	ug/m3
Q3651-04	IA2	Air	Tetrachloroethene	1.56		0.14	0.20	ug/m3
Q3651-04	IA2	Air	Ethyl Benzene	11.7		0.83	2.17	ug/m3
Q3651-04	IA2	Air	m/p-Xylene	39.5		1.78	4.34	ug/m3
Q3651-04	IA2	Air	o-Xylene	8.69		0.91	2.17	ug/m3
Q3651-04	IA2	Air	1,3,5-Trimethylbenzene	1.08	J	0.88	2.46	ug/m3
Q3651-04	IA2	Air	1,2,4-Trimethylbenzene	3.49		0.88	2.46	ug/m3
Q3651-04	IA2	Air	Naphthalene	0.52		0.050	0.52	ug/m3
Q3651-04	IA2	Air	Hexane	8.81		0.56	1.76	ug/m3
Total Voc :				351				
Total Concentration:				351				
Client ID:	IA2DL							
Q3651-04DL	IA2DL	Air	Heptane	10.7	JD	6.97	20.5	ug/m3
Q3651-04DL	IA2DL	Air	Cyclohexane	8.95	JD	7.57	17.2	ug/m3
Q3651-04DL	IA2DL	Air	2,2,4-Trimethylpentane	7.94	JD	6.54	23.4	ug/m3
Q3651-04DL	IA2DL	Air	Toluene	270	D	6.03	18.8	ug/m3
Q3651-04DL	IA2DL	Air	Ethyl Benzene	10.4	JD	8.25	21.7	ug/m3
Q3651-04DL	IA2DL	Air	m/p-Xylene	36.5	JD	17.8	43.4	ug/m3
Q3651-04DL	IA2DL	Air	Hexane	10.2	JD	5.64	17.6	ug/m3
Total Voc :				355				
Total Concentration:				355				
Client ID:	SV3							
Q3651-05	SV3	Air	Heptane	5.33	J	2.79	8.20	ug/m3
Q3651-05	SV3	Air	Benzene	1.28	J	1.02	6.39	ug/m3

Hit Summary Sheet
SW-846

SDG No.: Q3651

Client: GFE LLC

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Q3651-05	SV3	Air	Toluene	27.5		2.41	7.54	ug/m3
Q3651-05	SV3	Air	Tetrachloroethene	1.36		0.41	0.81	ug/m3
Q3651-05	SV3	Air	Hexane	23.3		2.26	7.05	ug/m3
Total Voc :				58.7				
Total Concentration:				58.7				
Client ID:	IA3							
Q3651-06	IA3	Air	Heptane	5.74		0.70	2.05	ug/m3
Q3651-06	IA3	Air	Benzene	0.42	J	0.26	1.60	ug/m3
Q3651-06	IA3	Air	Toluene	203	E	0.60	1.88	ug/m3
Q3651-06	IA3	Air	Ethyl Benzene	1.56	J	0.83	2.17	ug/m3
Q3651-06	IA3	Air	m/p-Xylene	6.52		1.78	4.34	ug/m3
Q3651-06	IA3	Air	o-Xylene	3.08		0.91	2.17	ug/m3
Q3651-06	IA3	Air	1,2,4-Trimethylbenzene	1.82	J	0.88	2.46	ug/m3
Q3651-06	IA3	Air	Naphthalene	0.94		0.050	0.52	ug/m3
Q3651-06	IA3	Air	Hexane	4.93		0.56	1.76	ug/m3
Total Voc :				228				
Total Concentration:				228				
Client ID:	IA3DL							
Q3651-06DL	IA3DL	Air	Toluene	223	D	6.03	18.8	ug/m3
Total Voc :				223				
Total Concentration:				223				



QC SUMMARY

Surrogate Summary

SDG No.: **Q3651**

Client: **GFE LLC**

Analytical Method: **SWTO-15**

Lab Sample ID	Client ID	Parameter	Spike	Result	Recovery (%)	Qual	Limits (%)	
							Low	High
Q3651-01	SV1	1-Bromo-4-Fluorobenzene	10	10.2	102		65	135
Q3651-02	SV2	1-Bromo-4-Fluorobenzene	10	10.3	103		65	135
Q3651-03	IA1	1-Bromo-4-Fluorobenzene	10	10.5	105		65	135
Q3651-03DL	IA1DL	1-Bromo-4-Fluorobenzene	10	10.1	101		65	135
Q3651-03DUP	IA1DUP	1-Bromo-4-Fluorobenzene	10	9.98	100		65	135
Q3651-04	IA2	1-Bromo-4-Fluorobenzene	10	9.96	100		65	135
Q3651-04DL	IA2DL	1-Bromo-4-Fluorobenzene	10	10.4	104		65	135
Q3651-05	SV3	1-Bromo-4-Fluorobenzene	10	10.3	103		65	135
Q3651-06	IA3	1-Bromo-4-Fluorobenzene	10	9.99	100		65	135
Q3651-06DL	IA3DL	1-Bromo-4-Fluorobenzene	10	10.4	104		65	135
VL1118ABL01	VL1118ABL01	1-Bromo-4-Fluorobenzene	10	10.0	100		65	135
VL1118ABS01	VL1118ABS01	1-Bromo-4-Fluorobenzene	10	10.3	103		65	135

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.:	<u>Q3651</u>	Analytical Method:	<u>SWTO-15</u>
Client:	<u>GFE LLC</u>	Datafile :	<u>VL043213.D</u>

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VL1118ABS01	Vinyl Chloride	10	8.30	ppbv	83			70	130	
	Heptane	10	8.50	ppbv	85			70	130	
	1,1-Dichloroethane	10	9.60	ppbv	96			70	130	
	Cyclohexane	10	9.10	ppbv	91			70	130	
	cis-1,2-Dichloroethene	10	9.40	ppbv	94			70	130	
	1,1,1-Trichloroethane	10	9.60	ppbv	96			70	130	
	2,2,4-Trimethylpentane	10	9.20	ppbv	92			70	130	
	Benzene	10	9.40	ppbv	94			70	130	
	Trichloroethene	10	9.20	ppbv	92			70	130	
	Toluene	10	9.20	ppbv	92			70	130	
	Tetrachloroethene	10	8.90	ppbv	89			70	130	
	Ethyl Benzene	10	9.50	ppbv	95			70	130	
	m/p-Xylene	20	18.8	ppbv	94			70	130	
	o-Xylene	10	9.30	ppbv	93			70	130	
	1,3,5-Trimethylbenzene	10	9.40	ppbv	94			70	130	
	1,2,4-Trimethylbenzene	10	9.20	ppbv	92			70	130	
	Naphthalene	10	9.80	ppbv	98			70	130	
	Hexane	10	9.00	ppbv	90			70	130	

Duplicate Sample Summary

Lab Sample Id :	Q3651-03DUP	Q3651-03
Client Id :	IA1DUP	IA1
DF :	1	1
Datafile :	VL043215.D	VL043214.D
Anal Date & Time :	11/18/2025 16:31	11/18/2025 15:57

Parameter	Result	Result	RPD
1,1,1-Trichloroethane	0	0	0
1,1-Dichloroethane	0	0	0
1,2,4-Trimethylbenzene	0.56	0.59	5.2
1,3,5-Trimethylbenzene	0	0	0
2,2,4-Trimethylpentane	0	0	0
Benzene	0.18	0.18	0
cis-1,2-Dichloroethene	0	0	0
Cyclohexane	0.27	0.31	13.8
Ethyl Benzene	1.4	1.5	6.9
Heptane	0.6	0.66	9.5
Hexane	0	0	0
m/p-Xylene	6.2	6.5	4.7
Naphthalene	0	0.12	200 *
o-Xylene	1.8	1.8	0
Tetrachloroethene	0.03	0.04	28.6 *
Toluene	180	180	0
Trichloroethene	0	0	0
Vinyl Chloride	0.05	0.05	0

VOLATILE METHOD BLANK SUMMARY

Client ID

IA1DUP

Lab Name: Alliance

Contract: GFEL01

Lab Code: ACE

SDG NO.: Q3651

Lab File ID: VL043215.D

Lab Sample ID: Q3651-03DUP

Date Analyzed: 11/18/2025

Time Analyzed: 16:31

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	Q3651-03DUP	VL043215.D	11/18/2025

COMMENTS: _____

VOLATILE METHOD BLANK SUMMARY

Client ID

VL1118ABL01

Lab Name: Alliance

Contract: GFEL01

Lab Code: ACE

SDG NO.: Q3651

Lab File ID: VL043212.D

Lab Sample ID: VL1118ABL01

Date Analyzed: 11/18/2025

Time Analyzed: 14:41

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
VL1118ABS01	VL1118ABS01	VL043213.D	11/18/2025
IA1	Q3651-03	VL043214.D	11/18/2025
IA2	Q3651-04	VL043216.D	11/18/2025
IA3	Q3651-06	VL043217.D	11/18/2025
SV1	Q3651-01	VL043222.D	11/18/2025
SV2	Q3651-02	VL043223.D	11/18/2025
SV3	Q3651-05	VL043224.D	11/18/2025
IA1DL	Q3651-03DL	VL043227.D	11/18/2025
IA2DL	Q3651-04DL	VL043229.D	11/19/2025
IA3DL	Q3651-06DL	VL043230.D	11/19/2025

COMMENTS: _____

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Alliance
Lab Code: ACE
Lab File ID: VL043202.D
Instrument ID: MSVOA_L
GC Column: RTX-1 ID: 0.32 (mm)

Contract: GFEL01
SDG NO.: Q3651
BFB Injection Date: 11/18/2025
BFB Injection Time: 08:46
Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	22.1
75	30.0 - 66.0% of mass 95	55.6
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.7
173	Less than 2.0% of mass 174	0.0 (0.0) 1
174	50.0 - 120.0% of mass 95	63.6
175	4.0 - 9.0% of mass 174	5 (7.8) 1
176	93.0 - 101.0% of mass 174	60.7 (95.5) 1
177	5.0 - 9.0% of mass 176	4 (6.6) 2

1-Value is % mass 174

2-Value is % mass 176

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

CLIENT ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDIC0.5	VSTDIC0.5	VL043203.D	11/18/2025	09:29
VSTDIC0.10	VSTDIC0.10	VL043204.D	11/18/2025	10:02
VSTDIC0.02	VSTDIC0.02	VL043205.D	11/18/2025	10:37
VSTDIC0.01	VSTDIC0.01	VL043206.D	11/18/2025	11:10
VSTDIC0.1	VSTDIC0.1	VL043208.D	11/18/2025	12:16
VSTDIC0.03	VSTDIC0.03	VL043209.D	11/18/2025	12:49
VSTDIC0.15	VSTDIC0.15	VL043210.D	11/18/2025	13:24
VL1118ABL01	VL1118ABL01	VL043212.D	11/18/2025	14:41
VL1118ABS01	VL1118ABS01	VL043213.D	11/18/2025	15:24
IA1	Q3651-03	VL043214.D	11/18/2025	15:57
IA1DUP	Q3651-03DUP	VL043215.D	11/18/2025	16:31
IA2	Q3651-04	VL043216.D	11/18/2025	17:06
IA3	Q3651-06	VL043217.D	11/18/2025	17:40
SV1	Q3651-01	VL043222.D	11/18/2025	20:29
SV2	Q3651-02	VL043223.D	11/18/2025	21:01
SV3	Q3651-05	VL043224.D	11/18/2025	21:33
IA1DL	Q3651-03DL	VL043227.D	11/18/2025	23:09
IA2DL	Q3651-04DL	VL043229.D	11/19/2025	00:13

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Alliance

Contract: GFEL01

Lab Code: ACE

SDG NO.: Q3651

Lab File ID: VL043202.D

BFB Injection Date: 11/18/2025

Instrument ID: MSVOA_L

BFB Injection Time: 08:46

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	22.1
75	30.0 - 66.0% of mass 95	55.6
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.7
173	Less than 2.0% of mass 174	0.0 (0.0) 1
174	50.0 - 120.0% of mass 95	63.6
175	4.0 - 9.0% of mass 174	5 (7.8) 1
176	93.0 - 101.0% of mass 174	60.7 (95.5) 1
177	5.0 - 9.0% of mass 176	4 (6.6) 2

1-Value is % mass 174

2-Value is % mass 176

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

CLIENT ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
IA3DL	Q3651-06DL	VL043230.D	11/19/2025	00:44

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance Contract: GFEL01
Lab Code: ACE SDG NO.: Q3651
Lab File ID: VL043204.D Date Analyzed: 11/18/2025
Instrument ID: MSVOA_L Time Analyzed: 10:02
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	105095	2.78	283830	3.95	234772	8.87
UPPER LIMIT	147133	3.11	397362	4.28	328681	9.20
LOWER LIMIT	63057	2.45	170298	3.62	140863	8.54
EPA SAMPLE NO.						
SV1	97422	2.79	255477	3.96	197025	8.88
SV2	93548	2.78	242389	3.95	194239	8.87
IA1	106759	2.79	268208	3.96	212527	8.88
IA1DL	97499	2.78	252986	3.95	194710	8.88
IA1DUP	112956	2.79	275778	3.96	220714	8.88
IA2	100351	2.78	262303	3.96	209925	8.88
IA2DL	91882	2.79	238827	3.96	187305	8.88
SV3	90209	2.78	238879	3.95	188275	8.88
IA3	99721	2.79	263141	3.96	208459	8.88
IA3DL	94238	2.79	242243	3.96	186991	8.88
VL1118ABL01	95971	2.79	262557	3.96	209184	8.88
VL1118ABS01	95420	2.78	253448	3.95	205104	8.87

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
Project: 316 TO 326 WESTBURY AVE
Client Sample ID: SV1
Lab Sample ID: Q3651-01
Analytical Method: TO-15
Sample Wt/Vol: 400 mL

Date Collected: 11/11/25
Date Received: 11/14/25
SDG No.: Q3651
Matrix: Air
Test: VOCMS Group2

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qua.	DF	MDL ug/m3	LOQ / CRQL ug/m3	Date Ana.	BatchID
TARGETS									
75-01-4	Vinyl Chloride	0.10	0.26	U	4	0.26	0.31	11/18/25 20:29	VL111825
142-82-5	Heptane	3.80	15.6		4	2.79	8.20	11/18/25 20:29	VL111825
75-34-3	1,1-Dichloroethane	0.52	2.10	U	4	2.10	8.09	11/18/25 20:29	VL111825
110-82-7	Cyclohexane	1.30	4.47	J	4	3.03	6.88	11/18/25 20:29	VL111825
156-59-2	cis-1,2-Dichloroethene	0.40	1.59	U	4	1.59	7.93	11/18/25 20:29	VL111825
71-55-6	1,1,1-Trichloroethane	0.060	0.33	U	4	0.33	0.65	11/18/25 20:29	VL111825
540-84-1	2,2,4-Trimethylpentane	0.56	2.62	U	4	2.62	9.34	11/18/25 20:29	VL111825
71-43-2	Benzene	1.00	3.19	J	4	1.02	6.39	11/18/25 20:29	VL111825
79-01-6	Trichloroethene	0.10	0.54	U	4	0.54	0.64	11/18/25 20:29	VL111825
108-88-3	Toluene	12.2	46.0		4	2.41	7.54	11/18/25 20:29	VL111825
127-18-4	Tetrachloroethene	0.16	1.08		4	0.41	0.81	11/18/25 20:29	VL111825
100-41-4	Ethyl Benzene	1.20	5.21	J	4	3.30	8.69	11/18/25 20:29	VL111825
179601-23-1	m/p-Xylene	3.30	14.3	J	4	6.95	17.4	11/18/25 20:29	VL111825
95-47-6	o-Xylene	1.60	6.95	J	4	3.65	8.69	11/18/25 20:29	VL111825
108-67-8	1,3,5-Trimethylbenzene	0.72	3.54	U	4	3.54	9.83	11/18/25 20:29	VL111825
95-63-6	1,2,4-Trimethylbenzene	0.92	4.52	J	4	3.54	9.83	11/18/25 20:29	VL111825
91-20-3	Naphthalene	0.050	0.26	U	4	0.26	2.10	11/18/25 20:29	VL111825
110-54-3	Hexane	20.8	73.3		4	2.26	7.05	11/18/25 20:29	VL111825
SURROGATES									
460-00-4	1-Bromo-4-Fluorobenzene	10.2				65 - 135	102% SPK: 10		
INTERNAL STANDARDS									
74-97-5	Bromochloromethane	97400							
540-36-3	1,4-Difluorobenzene	255000							
3114-55-4	Chlorobenzene-d5	197000							

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\VL111825\
 Data File : VL043222.D
 Acq On : 18 Nov 2025 20:29
 Operator : SY/MD
 Sample : Q3651-01 4X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV1

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 11/19/2025
 Supervised By :Mahesh Dadoda 11/19/2025

Quant Time: Nov 19 01:39:46 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M

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

QLast Update : Wed Nov 19 01:11:25 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.790	49	97422	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.959	114	255477	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.875	117	197025	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.370	95	147087	10.185	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.800%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.492	85	1653	0.120	ppbv	93
9) Propene	1.483	41	31623	5.511	ppbv #	1
10) Heptane	4.978	43	16286m	0.954	ppbv	
15) Acetone	1.835	43	387646	28.640	ppbv	98
17) tert-Butyl alcohol	2.043	59	10185m	0.573	ppbv	
19) Isopropyl Alcohol	1.884	45	262922	34.376	ppbv	96
20) Methylene Chloride	2.068	84	591192	160.005	ppbv	91
25) Ethyl Acetate	2.836	43	215424	7.379	ppbv	98
26) Hexane	2.832	57	66477m	5.194	ppbv	
30) Cyclohexane	3.862	84	3485	0.325	ppbv #	82
34) 2-Butanone	2.560	43	8685	0.482	ppbv	99
36) Benzene	3.664	78	6086	0.249	ppbv #	92
40) 1,4-Dioxane	4.587	88	3574m	0.888	ppbv	
41) Tetrahydrofuran	3.062	42	3376m	0.339	ppbv	
52) Tetrachloroethene	8.221	164	399m	0.044	ppbv	
53) Toluene	6.930	91	88387	3.051	ppbv	97
58) Ethyl Benzene	9.351	91	11657	0.307	ppbv #	82
59) m/p-Xylene	9.529	91	25042	0.824	ppbv	100
60) o-Xylene	9.956	91	12246	0.403	ppbv	93
73) 1,3,5-Trimethylbenzene	11.199	105	4030	0.130	ppbv	99
74) 1,2,4-Trimethylbenzene	11.529	105	7787	0.230	ppbv #	48

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

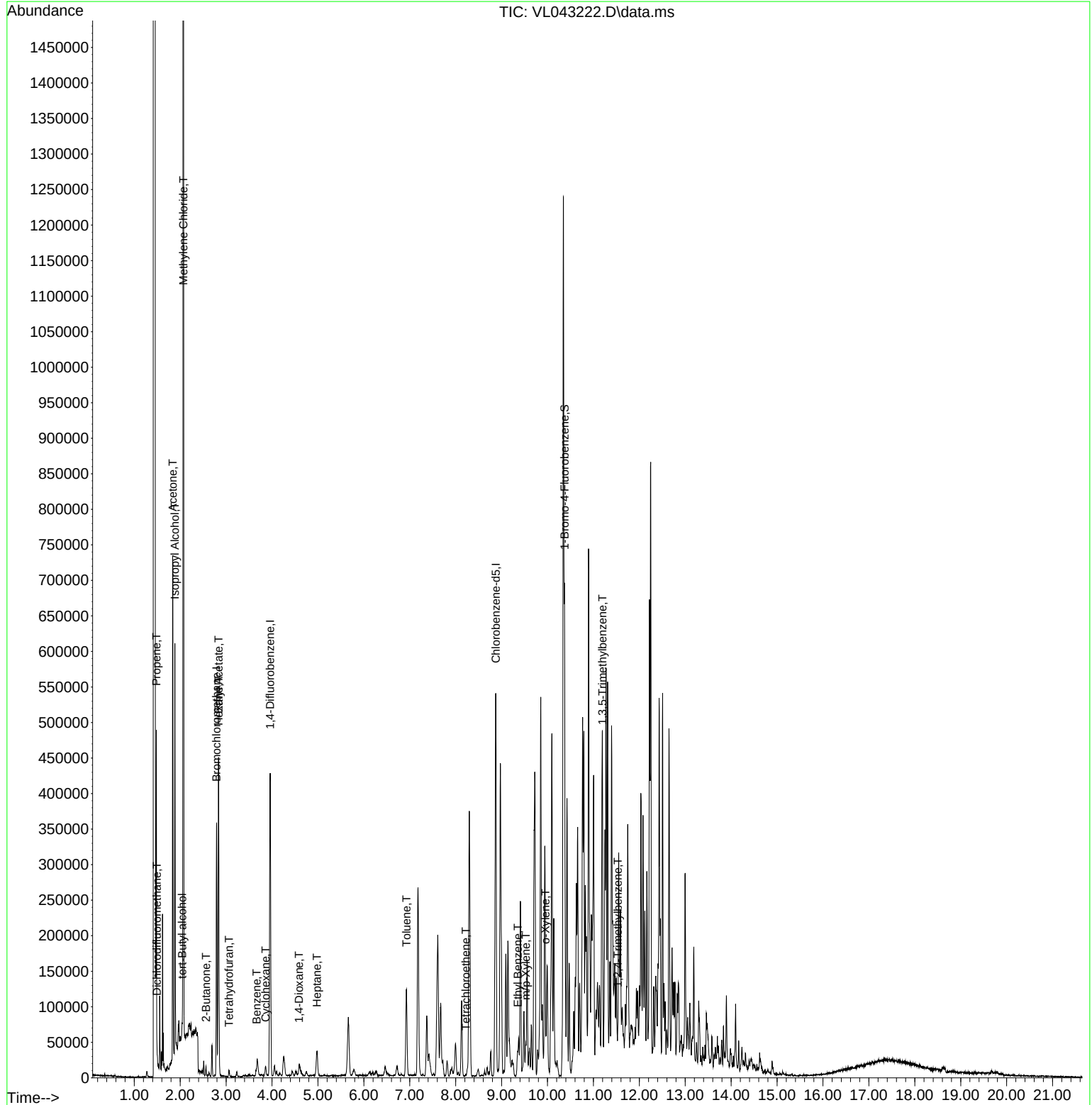
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Data File : VL043222.D
Acq On : 18 Nov 2025 20:29
Operator : SY/MD
Sample : Q3651-01 4X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

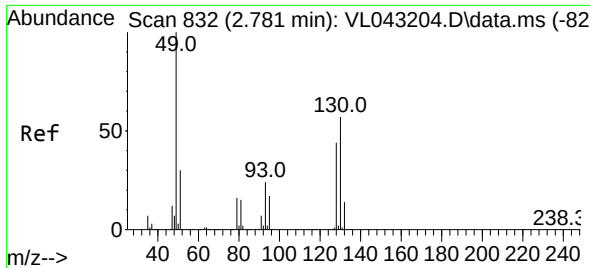
Instrument :
MSVOA_L
ClientSampleId :
SV1

Quant Time: Nov 19 01:39:46 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Wed Nov 19 01:11:25 2025
Response via : Initial Calibration

Manual Integrations
APPROVED

Reviewed By : Semsettin Yesilyurt 11/19/2025
Supervised By : Mahesh Dadoda 11/19/2025





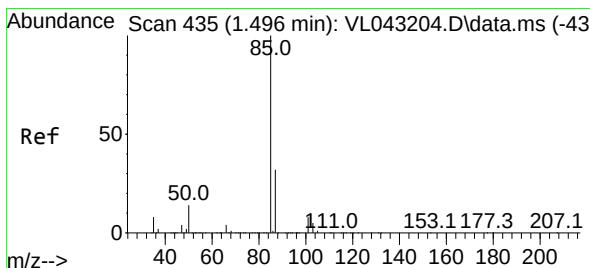
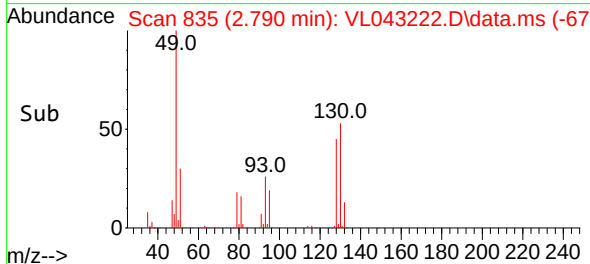
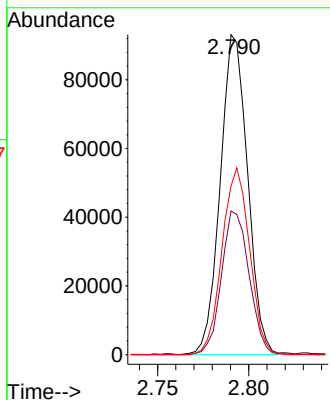
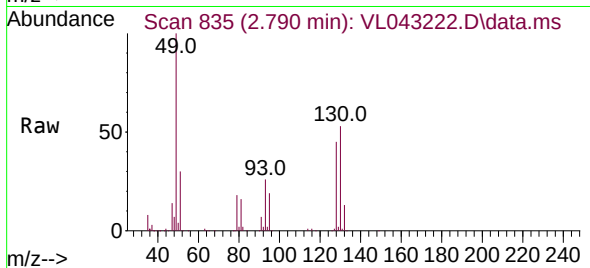
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.790 min Scan# 832
Delta R.T. 0.009 min
Lab File: VL043222.D
Acq: 18 Nov 2025 20:29

Instrument :
MSVOA_L
ClientSampleId :
SV1

Tgt Ion: 49 Resp: 97422
Ion Ratio Lower Upper
49 100
128 45.2 23.0 69.0
130 58.8 29.9 89.7

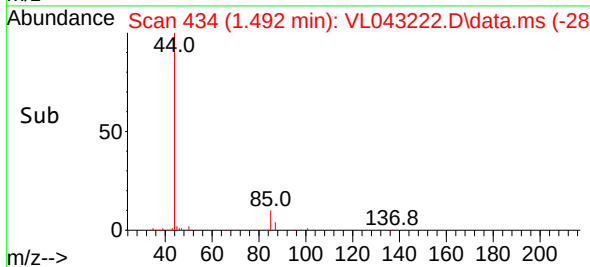
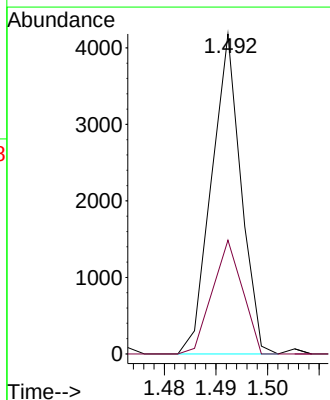
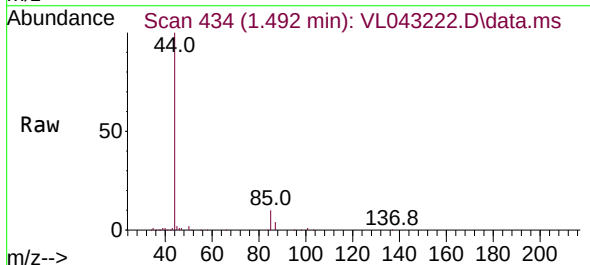
Manual Integrations
APPROVED

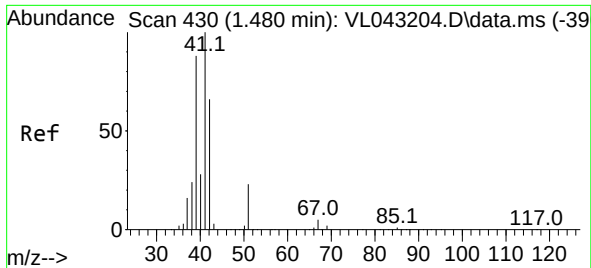
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#2
Dichlorodifluoromethane
Concen: 0.120 ppbv
RT: 1.492 min Scan# 434
Delta R.T. -0.003 min
Lab File: VL043222.D
Acq: 18 Nov 2025 20:29

Tgt Ion: 85 Resp: 1653
Ion Ratio Lower Upper
85 100
87 35.5 25.4 38.2





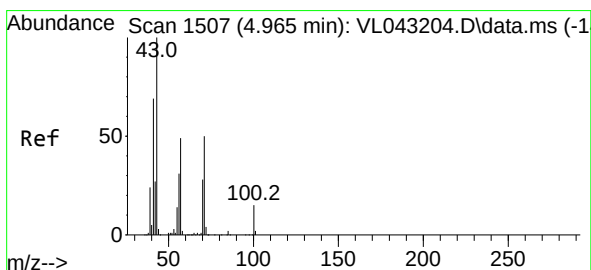
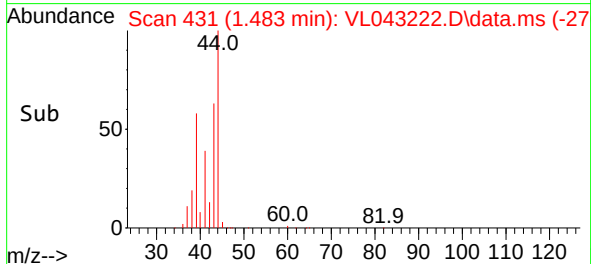
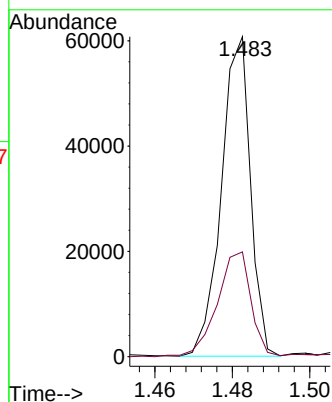
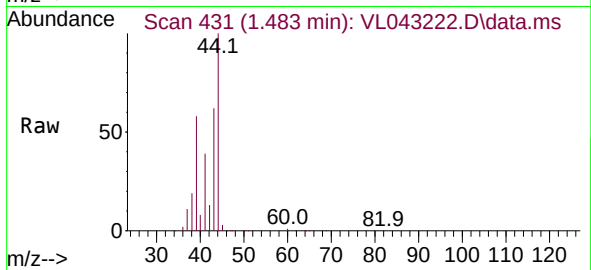
#9
 Propene
 Concen: 5.511 ppbv
 RT: 1.483 min Scan# 431
 Delta R.T. 0.003 min
 Lab File: VL043222.D
 Acq: 18 Nov 2025 20:29

Instrument :
 MSVOA_L
 ClientSampleId :
 SV1

Tgt Ion: 41 Resp: 31623
 Ion Ratio Lower Upper
 41 100
 42 39.1 3.7 5.5

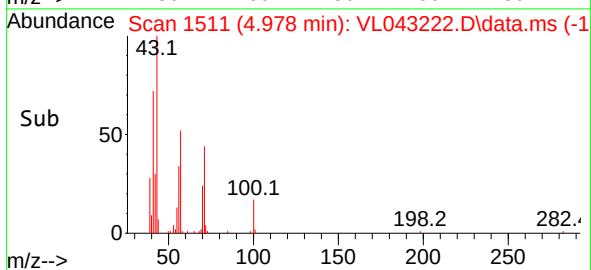
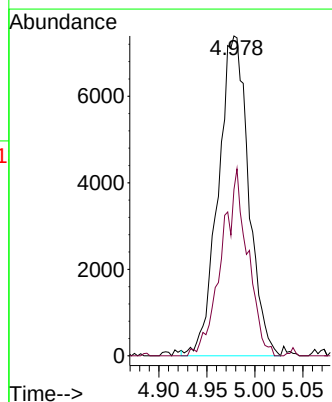
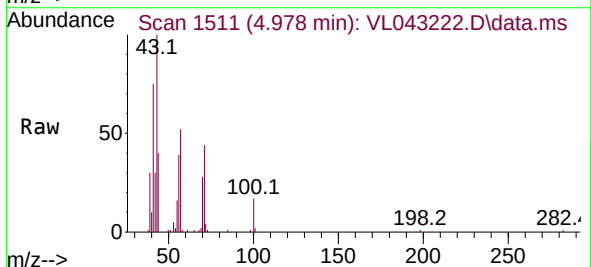
Manual Integrations
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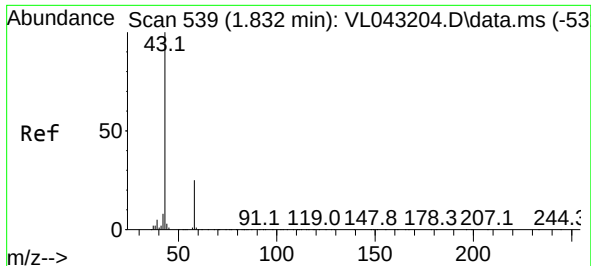
Reviewed By :Semsettin Yesilyurt 11/19/2025
 Supervised By :Mahesh Dadoda 11/19/2025



#10
 Heptane
 Concen: 0.954 ppbv m
 RT: 4.978 min Scan# 1511
 Delta R.T. 0.013 min
 Lab File: VL043222.D
 Acq: 18 Nov 2025 20:29

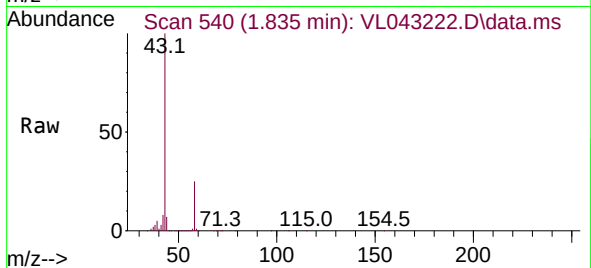
Tgt Ion: 43 Resp: 16286
 Ion Ratio Lower Upper
 43 100
 57 51.1 39.7 59.5





#15
Acetone
Concen: 28.640 ppbv
RT: 1.835 min Scan# 54
Delta R.T. 0.003 min
Lab File: VL043222.D
Acq: 18 Nov 2025 20:29

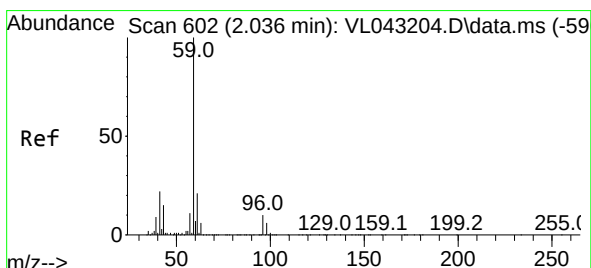
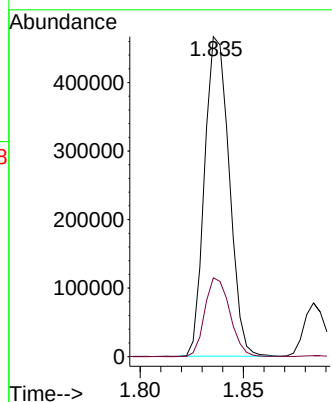
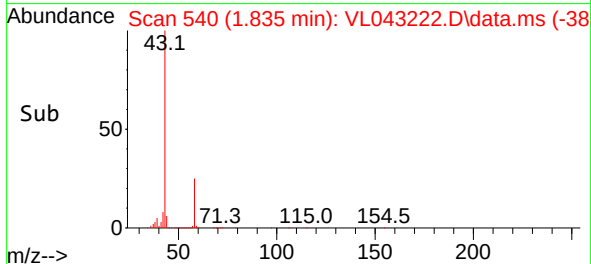
Instrument :
MSVOA_L
ClientSampleId :
SV1



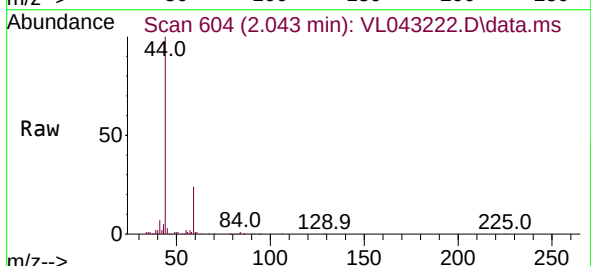
Tgt Ion: 43 Resp: 387646
Ion Ratio Lower Upper
43 100
58 25.0 20.7 31.1

Manual Integrations
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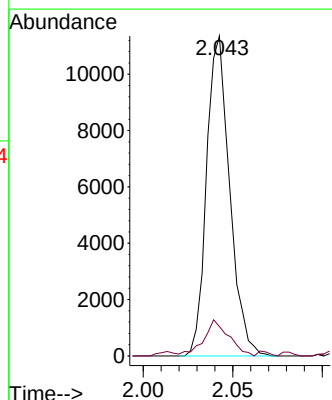
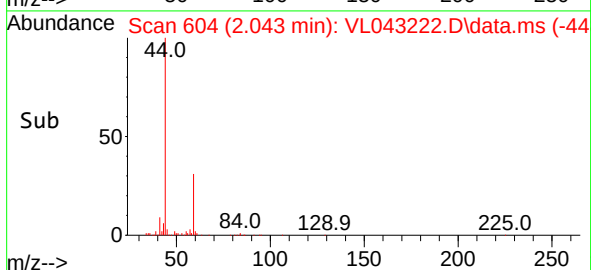
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025

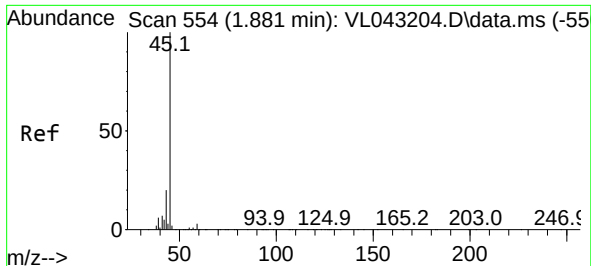


#17
tert-Butyl alcohol
Concen: 0.573 ppbv m
RT: 2.043 min Scan# 604
Delta R.T. 0.006 min
Lab File: VL043222.D
Acq: 18 Nov 2025 20:29



Tgt Ion: 59 Resp: 10185
Ion Ratio Lower Upper
59 100
57 10.8 9.0 13.4





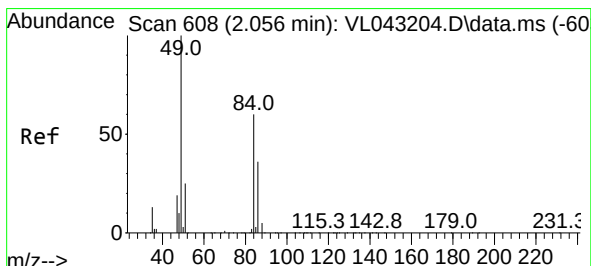
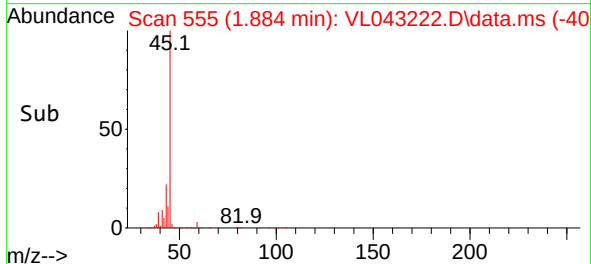
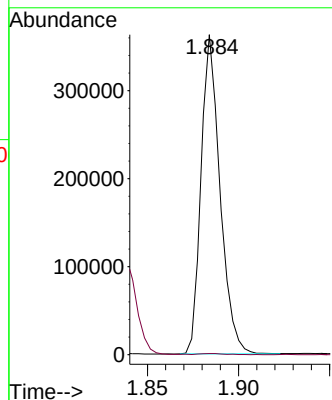
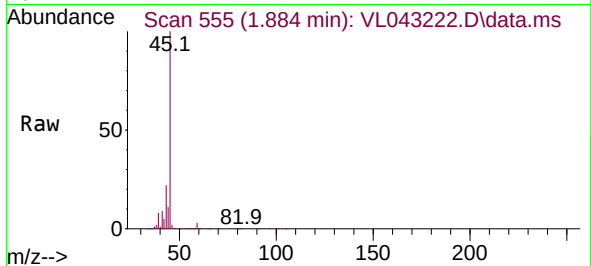
#19
Isopropyl Alcohol
Concen: 34.376 ppbv
RT: 1.884 min Scan# 511
Delta R.T. 0.003 min
Lab File: VL043222.D
Acq: 18 Nov 2025 20:29

Instrument :
MSVOA_L
ClientSampleId :
SV1

Tgt Ion: 45 Resp: 262922
Ion Ratio Lower Upper
45 100
58 36.9 31.3 46.9

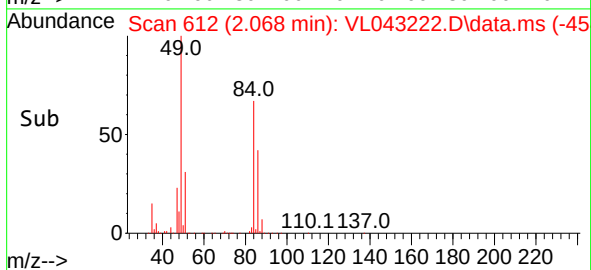
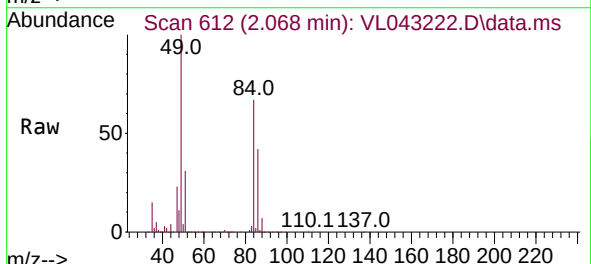
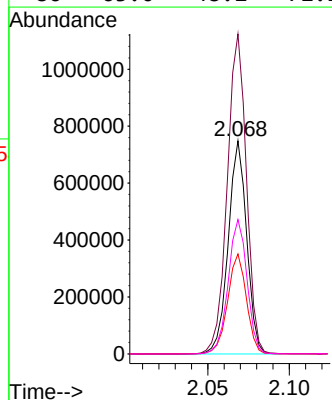
Manual Integrations
APPROVED

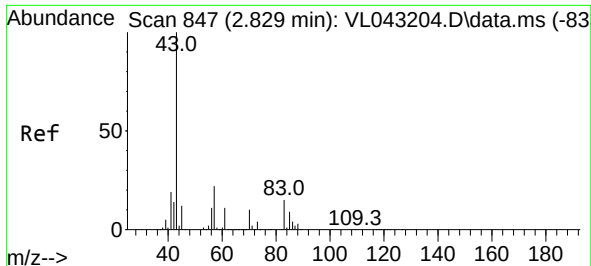
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#20
Methylene Chloride
Concen: 160.005 ppbv
RT: 2.068 min Scan# 612
Delta R.T. 0.012 min
Lab File: VL043222.D
Acq: 18 Nov 2025 20:29

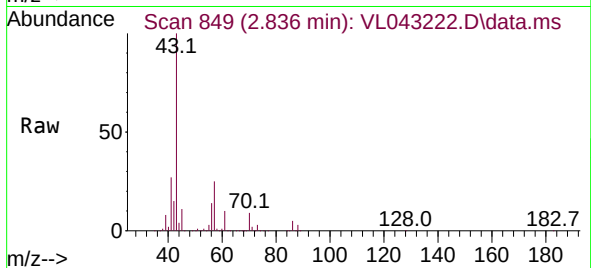
Tgt Ion: 84 Resp: 591192
Ion Ratio Lower Upper
84 100
49 150.2 132.9 199.3
51 46.9 34.8 52.2
86 63.0 48.2 72.2





#25
Ethyl Acetate
Concen: 7.379 ppbv
RT: 2.836 min Scan# 84
Delta R.T. 0.006 min
Lab File: VL043222.D
Acq: 18 Nov 2025 20:29

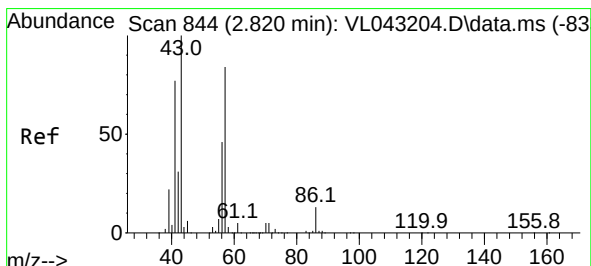
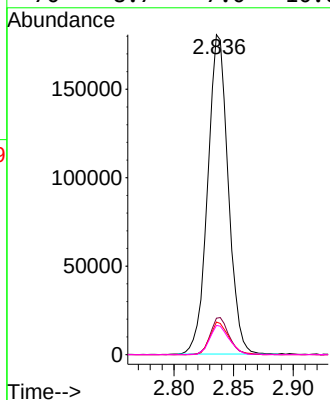
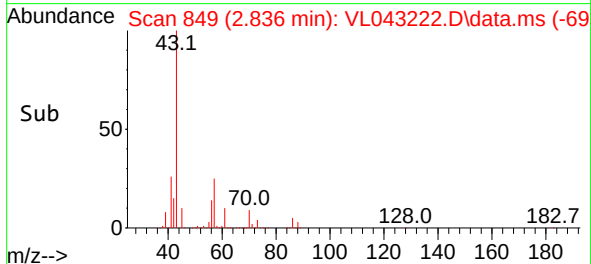
Instrument :
MSVOA_L
ClientSampleId :
SV1



Tgt Ion: 43 Resp: 215424
Ion Ratio Lower Upper
43 100
45 10.8 8.1 12.1
61 9.5 7.0 10.4
70 8.7 7.0 10.6

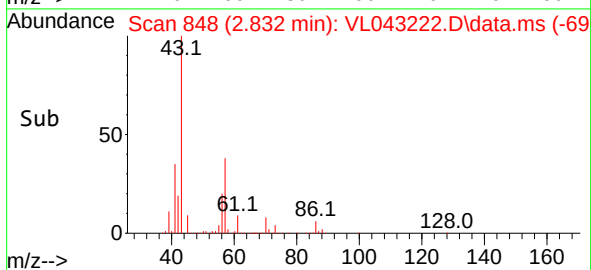
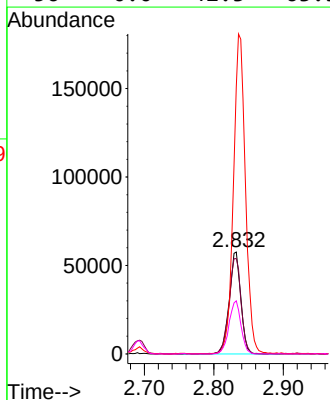
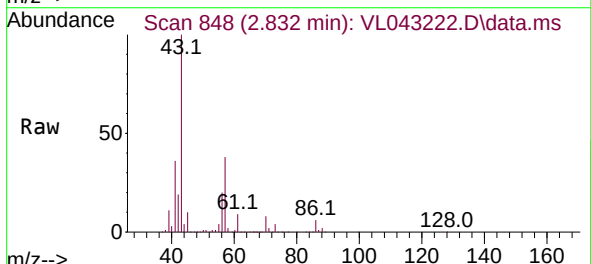
Manual Integrations
APPROVED

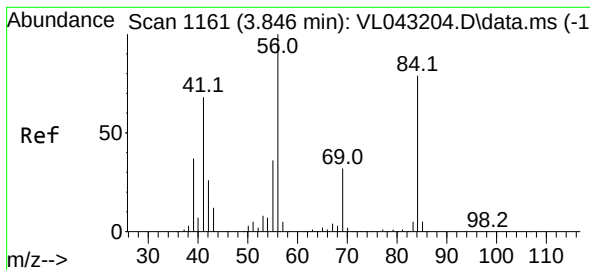
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#26
Hexane
Concen: 5.194 ppbv m
RT: 2.832 min Scan# 848
Delta R.T. 0.013 min
Lab File: VL043222.D
Acq: 18 Nov 2025 20:29

Tgt Ion: 57 Resp: 66477
Ion Ratio Lower Upper
57 100
41 0.0 74.6 111.8#
43 0.0 179.0 268.4#
56 0.0 42.3 63.5#





#30

Cyclohexane

Concen: 0.325 ppbv

RT: 3.862 min Scan# 1161

Delta R.T. 0.016 min

Lab File: VL043222.D

Acq: 18 Nov 2025 20:29

Instrument :

MSVOA_L

ClientSampleId :

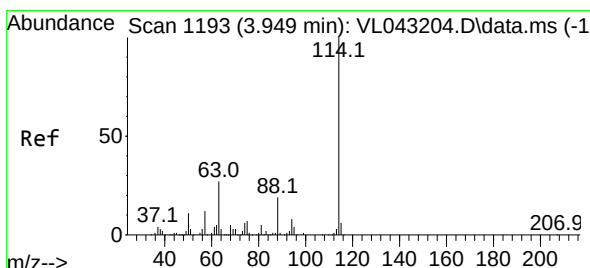
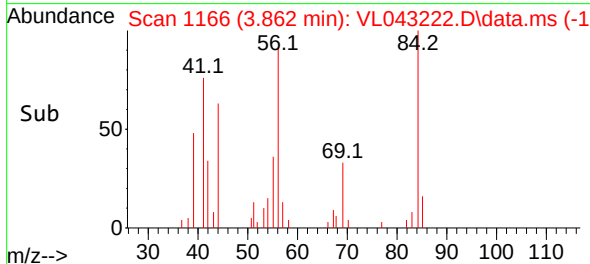
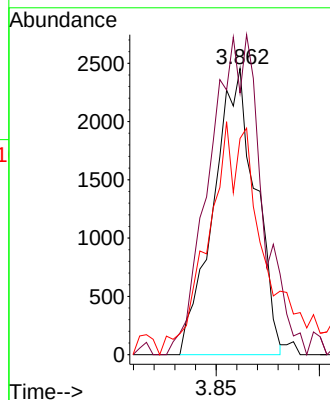
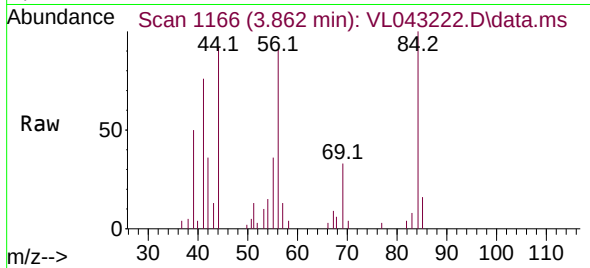
SV1

Tgt Ion:	84	Resp:	3485
Ion Ratio	Lower	Upper	
84	100		
56	142.3	104.7	157.1
41	115.2	69.0	103.6

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

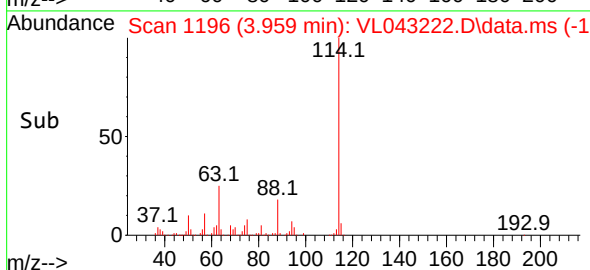
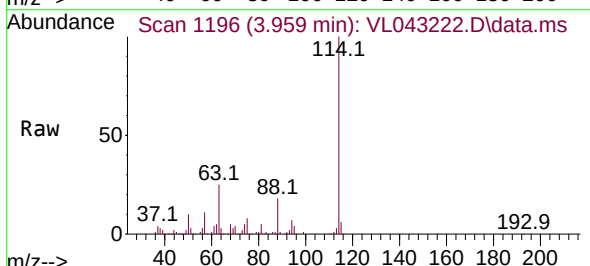
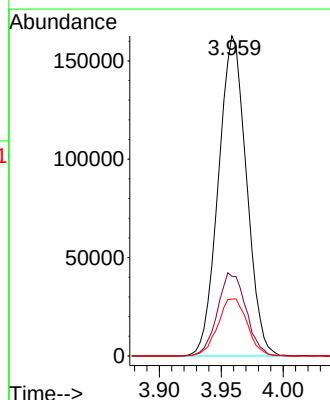
RT: 3.959 min Scan# 1196

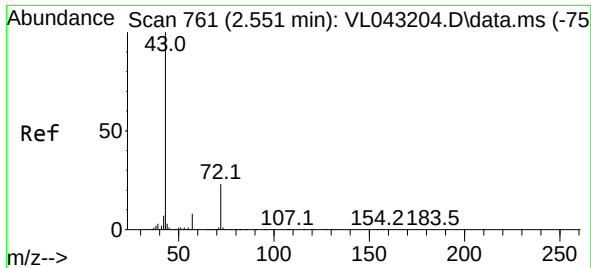
Delta R.T. 0.009 min

Lab File: VL043222.D

Acq: 18 Nov 2025 20:29

Tgt Ion:	114	Resp:	255477
Ion Ratio	Lower	Upper	
114	100		
63	26.4	21.0	31.6
88	18.7	14.9	22.3





#34

2-Butanone

Concen: 0.482 ppbv

RT: 2.560 min Scan# 761

Delta R.T. 0.009 min

Lab File: VL043222.D

Acq: 18 Nov 2025 20:29

Instrument :

MSVOA_L

ClientSampleId :

SV1

Tgt Ion: 43 Resp: 868

Ion Ratio Lower Upper

43 100

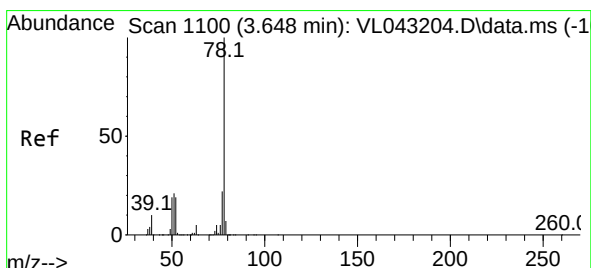
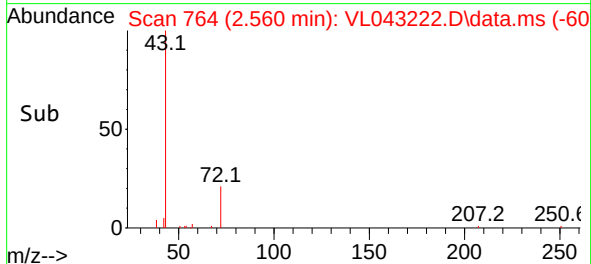
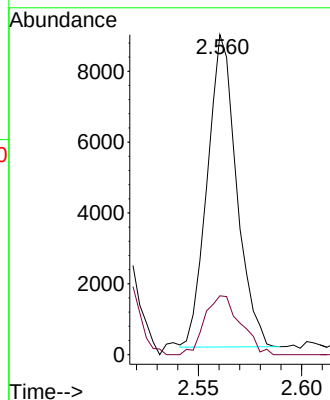
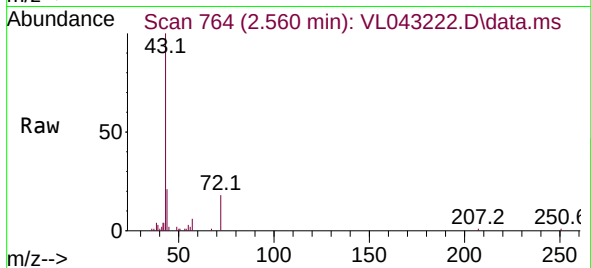
72 23.0 18.1 27.1

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/19/2025

Supervised By :Mahesh Dadoda 11/19/2025



#36

Benzene

Concen: 0.249 ppbv

RT: 3.664 min Scan# 1105

Delta R.T. 0.016 min

Lab File: VL043222.D

Acq: 18 Nov 2025 20:29

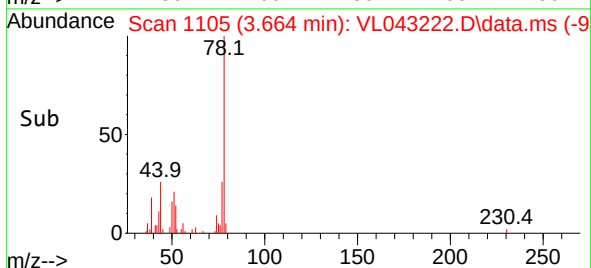
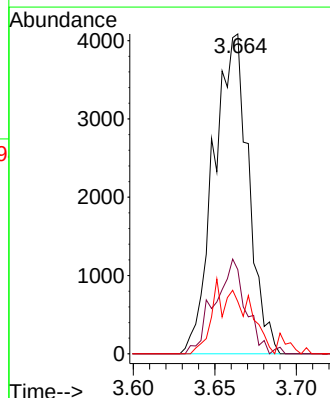
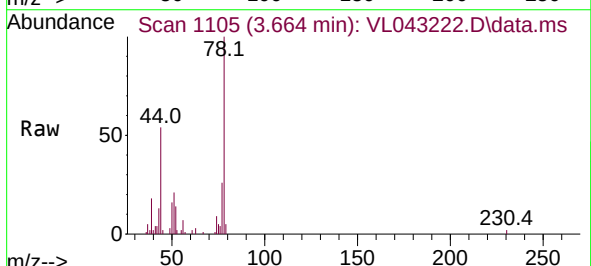
Tgt Ion: 78 Resp: 6086

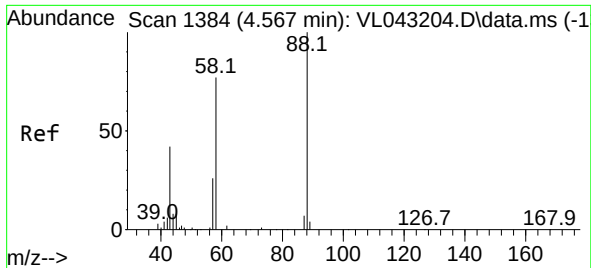
Ion Ratio Lower Upper

78 100

77 26.3 17.5 26.3

50 16.3 15.5 23.3





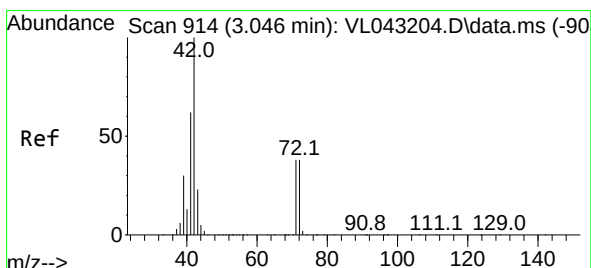
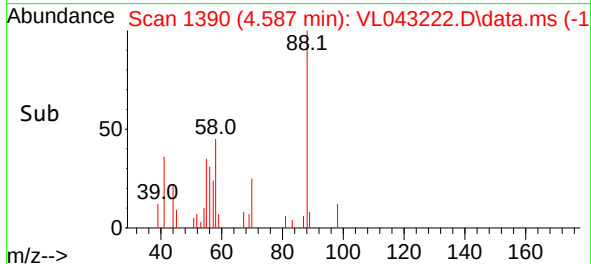
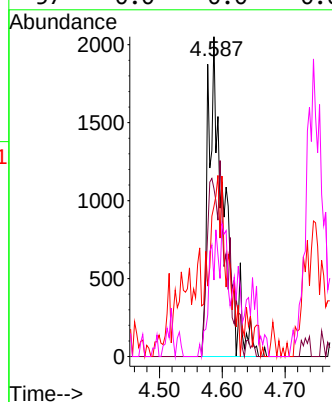
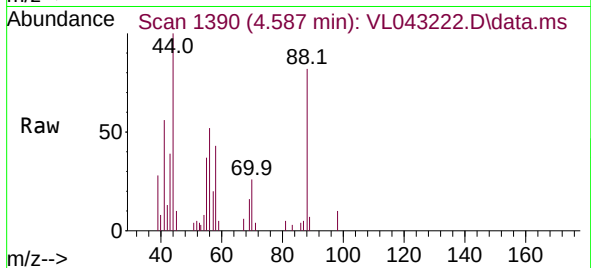
#40
1,4-Dioxane
Concen: 0.888 ppbv m
RT: 4.587 min Scan# 1384
Delta R.T. 0.019 min
Lab File: VL043222.D
Acq: 18 Nov 2025 20:29

Instrument :
MSVOA_L
ClientSampleId :
SV1

Tgt Ion: 88	Resp: 3574
Ion Ratio	Lower Upper
88 100	
58 0.0	63.0 94.6
43 0.0	32.5 48.7
57 0.0	0.0 0.0

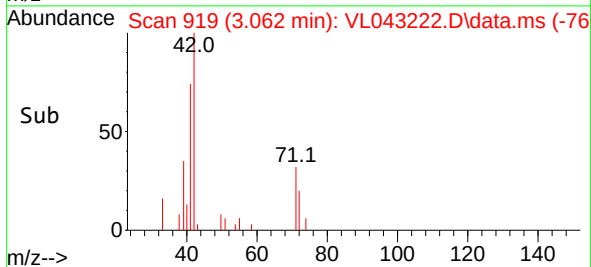
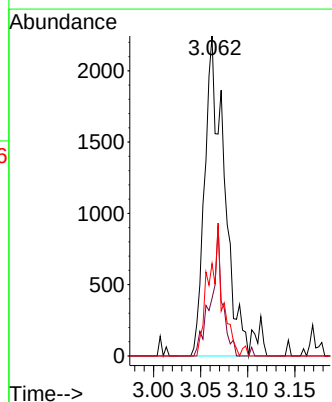
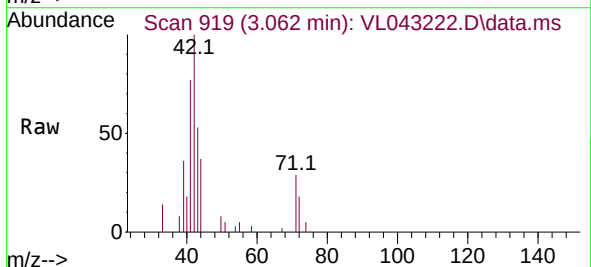
Manual Integrations
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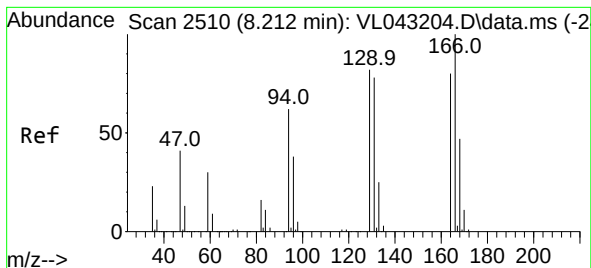
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#41
Tetrahydrofuran
Concen: 0.339 ppbv m
RT: 3.062 min Scan# 919
Delta R.T. 0.016 min
Lab File: VL043222.D
Acq: 18 Nov 2025 20:29

Tgt Ion: 42	Resp: 3376
Ion Ratio	Lower Upper
42 100	
72 0.0	30.6 46.0#
71 0.0	30.5 45.7#





#52

Tetrachloroethene

Concen: 0.044 ppbv

RT: 8.221 min Scan# 2510

Delta R.T. 0.009 min

Lab File: VL043222.D

Acq: 18 Nov 2025 20:29

Instrument :

MSVOA_L

ClientSampleId :

SV1

Tgt Ion:164 Resp: 399

Ion Ratio Lower Upper

164 100

166 51.6 99.4 149.2

129 61.1 81.8 122.8

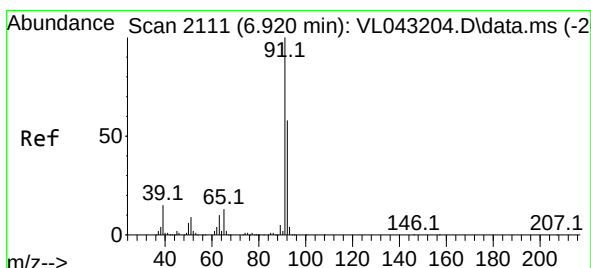
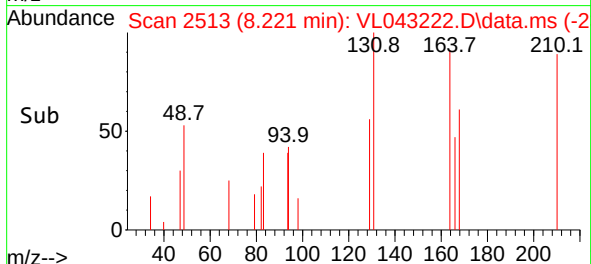
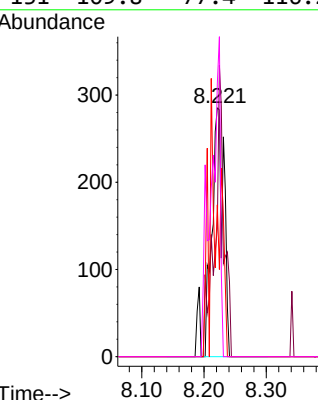
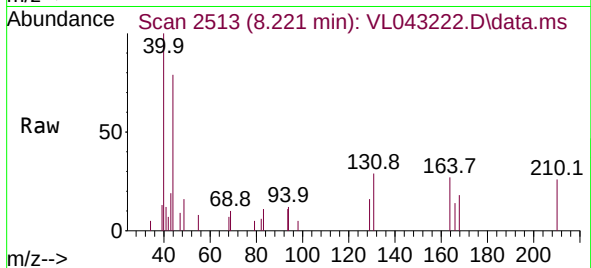
131 109.8 77.4 116.2

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Reviewed By :Semsettin Yesilyurt 11/19/2025

Supervised By :Mahesh Dadoda 11/19/2025



#53

Toluene

Concen: 3.051 ppbv

RT: 6.930 min Scan# 2114

Delta R.T. 0.009 min

Lab File: VL043222.D

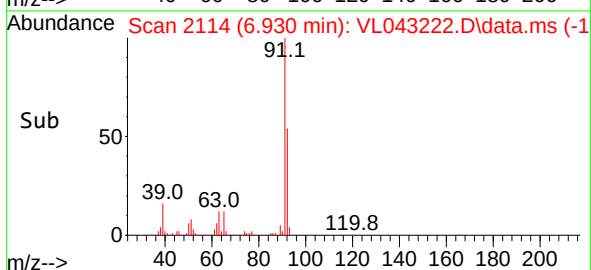
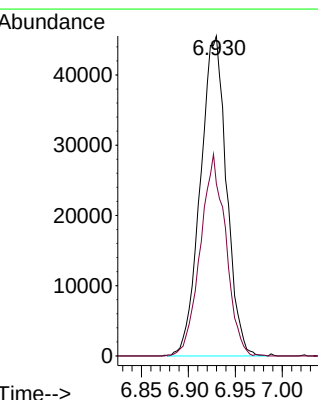
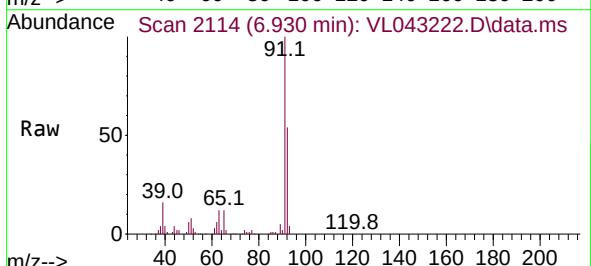
Acq: 18 Nov 2025 20:29

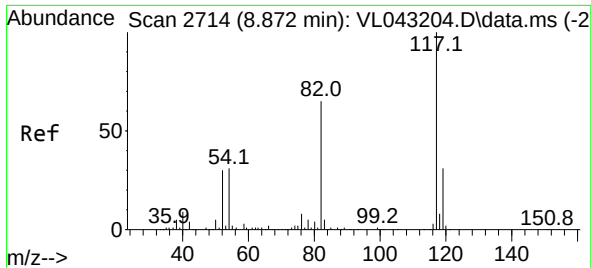
Tgt Ion: 91 Resp: 88387

Ion Ratio Lower Upper

91 100

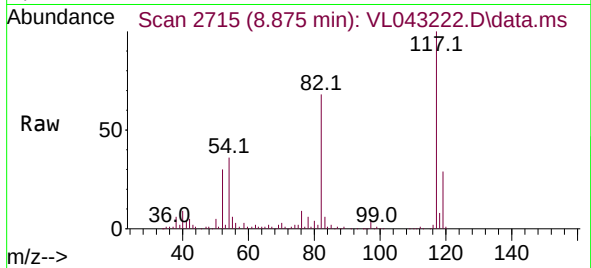
92 61.2 47.4 71.0





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.875 min Scan# 2715
Delta R.T. 0.003 min
Lab File: VL043222.D
Acq: 18 Nov 2025 20:29

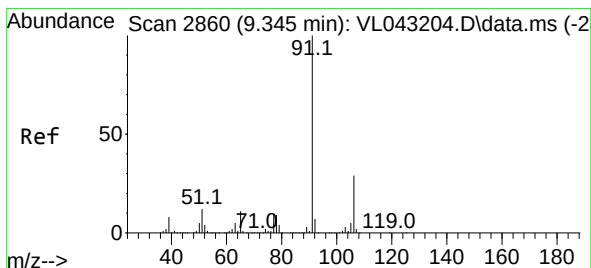
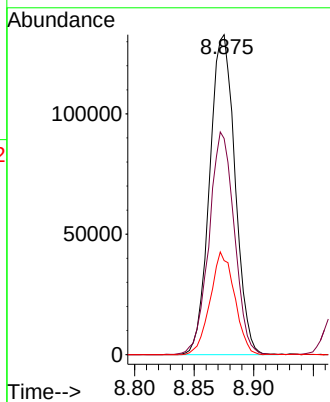
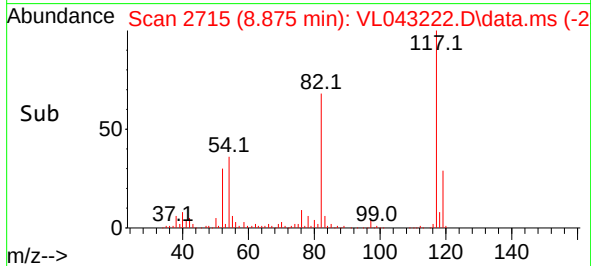
Instrument :
MSVOA_L
ClientSampleId :
SV1



Tgt Ion:117 Resp: 197025
Ion Ratio Lower Upper
117 100
82 69.4 56.1 84.1
119 30.9 25.0 37.6

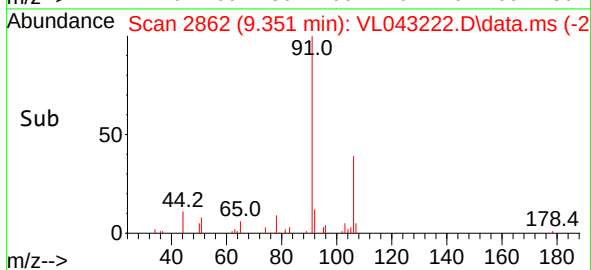
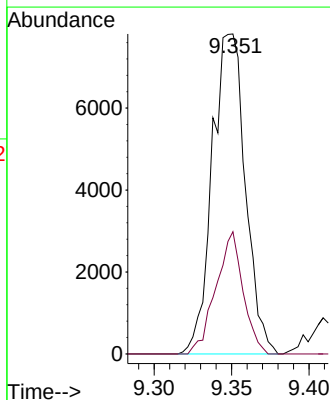
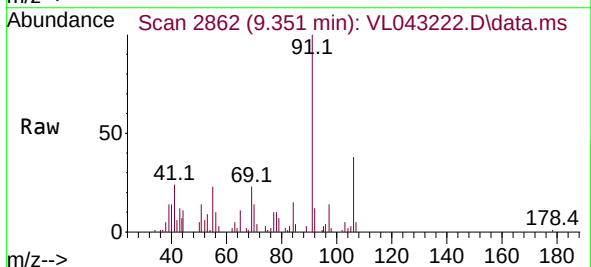
Manual Integrations
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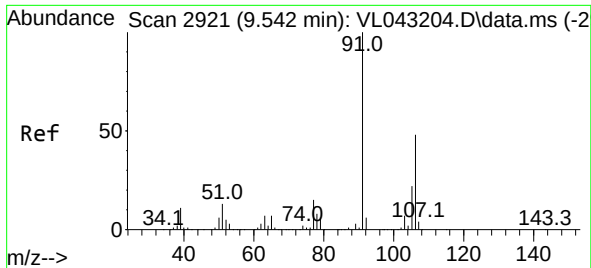
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#58
Ethyl Benzene
Concen: 0.307 ppbv
RT: 9.351 min Scan# 2862
Delta R.T. 0.006 min
Lab File: VL043222.D
Acq: 18 Nov 2025 20:29

Tgt Ion: 91 Resp: 11657
Ion Ratio Lower Upper
91 100
106 38.2 22.8 34.2#





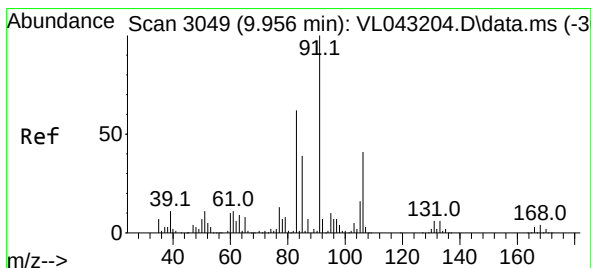
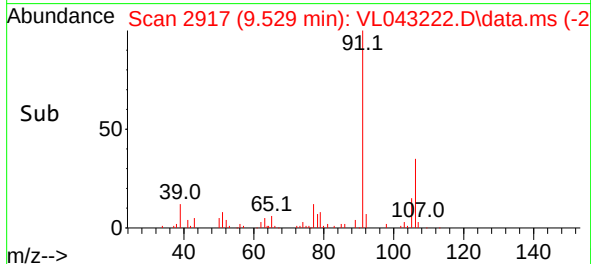
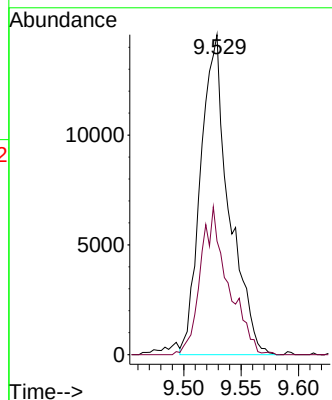
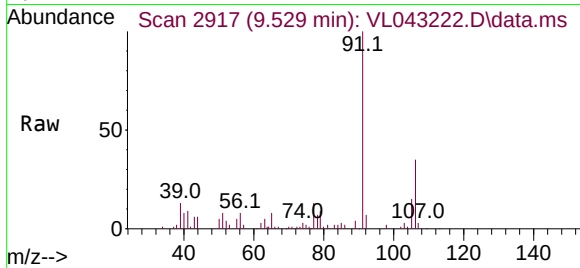
#59
m/p-Xylene
Concen: 0.824 ppbv
RT: 9.529 min Scan# 2917
Delta R.T. -0.013 min
Lab File: VL043222.D
Acq: 18 Nov 2025 20:29

Instrument :
MSVOA_L
ClientSampleId :
SV1

Tgt Ion: 91 Resp: 25042
Ion Ratio Lower Upper
91 100
106 45.0 36.1 54.1

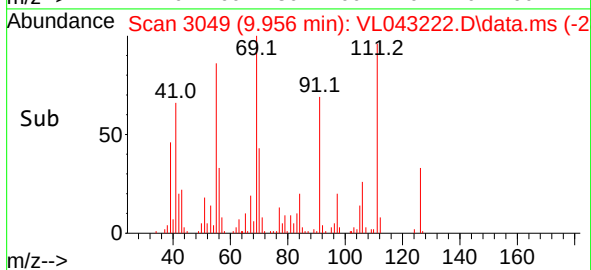
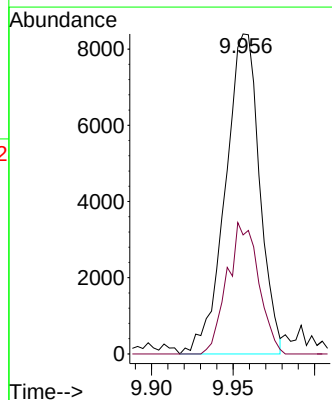
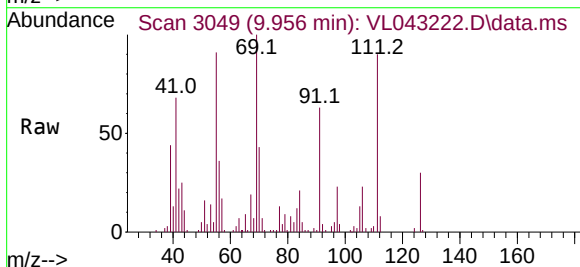
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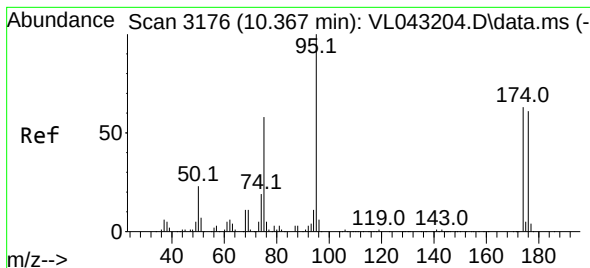
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#60
o-Xylene
Concen: 0.403 ppbv
RT: 9.956 min Scan# 3049
Delta R.T. -0.000 min
Lab File: VL043222.D
Acq: 18 Nov 2025 20:29

Tgt Ion: 91 Resp: 12246
Ion Ratio Lower Upper
91 100
106 37.7 20.9 62.8





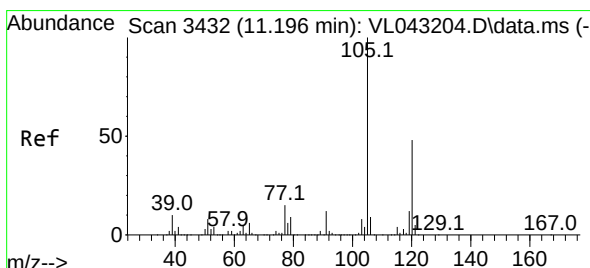
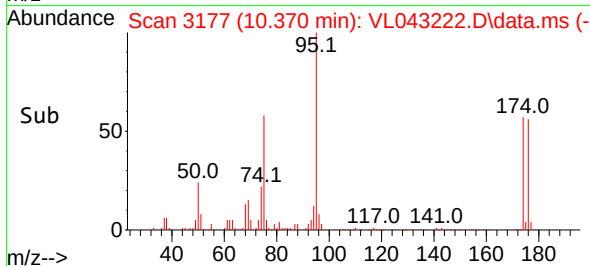
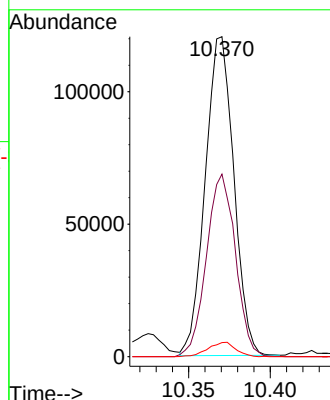
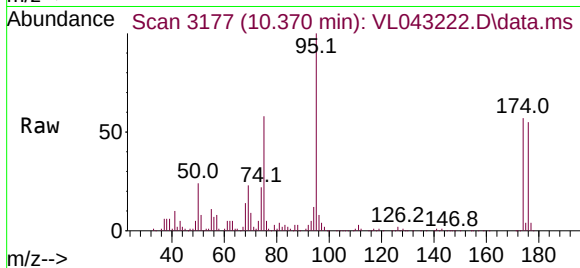
#68
1-Bromo-4-Fluorobenzene
Concen: 10.185 ppbv
RT: 10.370 min Scan# 3176
Delta R.T. 0.003 min
Lab File: VL043222.D
Acq: 18 Nov 2025 20:29

Instrument :
MSVOA_L
ClientSampleId :
SV1

Tgt Ion: 95 Resp: 14708
Ion Ratio Lower Upper
95 100
174 57.9 50.2 75.2
175 4.3 4.1 6.1

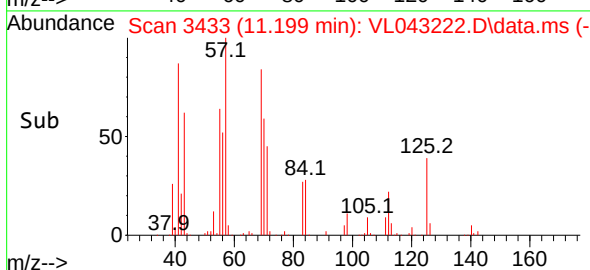
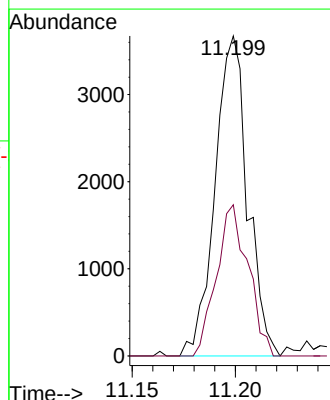
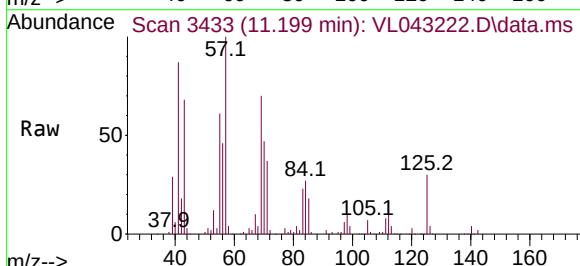
Manual Integrations
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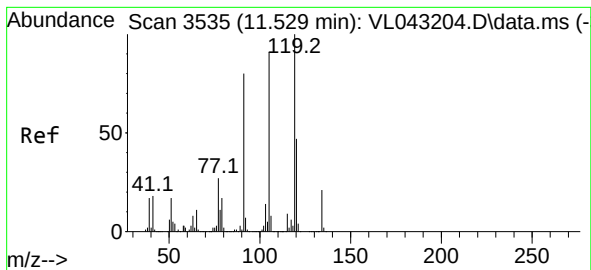
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#73
1,3,5-Trimethylbenzene
Concen: 0.130 ppbv
RT: 11.199 min Scan# 3433
Delta R.T. 0.003 min
Lab File: VL043222.D
Acq: 18 Nov 2025 20:29

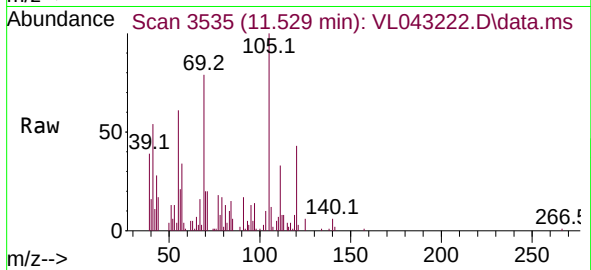
Tgt Ion:105 Resp: 4030
Ion Ratio Lower Upper
105 100
120 47.3 38.6 57.8





#74
 1,2,4-Trimethylbenzene
 Concen: 0.230 ppbv
 RT: 11.529 min Scan# 3535
 Delta R.T. -0.000 min
 Lab File: VL043222.D
 Acq: 18 Nov 2025 20:29

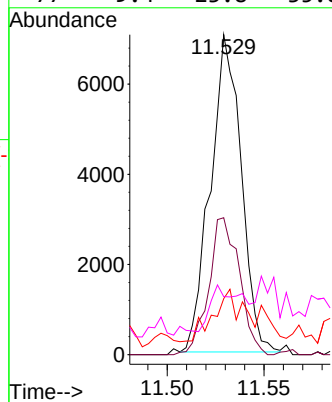
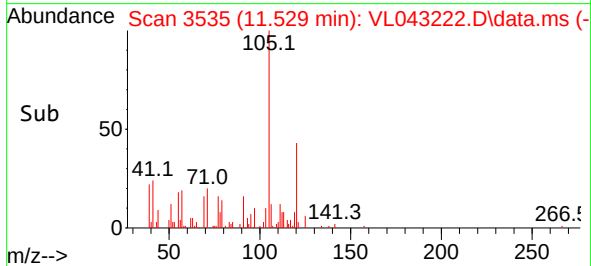
Instrument :
 MSVOA_L
 ClientSampleId :
 SV1



Tgt Ion:	105	Resp:	778
Ion	Ratio	Lower	Upper
105	100		
120	42.4	41.7	62.5
91	13.6	70.0	105.0
77	9.4	23.8	35.8

Manual Integrations
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Reviewed By :Semsettin Yesilyurt 11/19/2025
 Supervised By :Mahesh Dadoda 11/19/2025



Report of Analysis

Client: GFE LLC
Project: 316 TO 326 WESTBURY AVE
Client Sample ID: SV2
Lab Sample ID: Q3651-02
Analytical Method: TO-15
Sample Wt/Vol: 400 mL

Date Collected: 11/11/25
Date Received: 11/14/25
SDG No.: Q3651
Matrix: Air
Test: VOCMS Group2

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qua.	DF	MDL ug/m3	LOQ / CRQL ug/m3	Date Ana.	BatchID
TARGETS									
75-01-4	Vinyl Chloride	0.10	0.26	U	4	0.26	0.31	11/18/25 21:01	VL111825
142-82-5	Heptane	2.10	8.61		4	2.79	8.20	11/18/25 21:01	VL111825
75-34-3	1,1-Dichloroethane	0.52	2.10	U	4	2.10	8.09	11/18/25 21:01	VL111825
110-82-7	Cyclohexane	1.30	4.47	J	4	3.03	6.88	11/18/25 21:01	VL111825
156-59-2	cis-1,2-Dichloroethene	0.40	1.59	U	4	1.59	7.93	11/18/25 21:01	VL111825
71-55-6	1,1,1-Trichloroethane	0.38	2.07		4	0.33	0.65	11/18/25 21:01	VL111825
540-84-1	2,2,4-Trimethylpentane	0.57	2.66	J	4	2.62	9.34	11/18/25 21:01	VL111825
71-43-2	Benzene	0.58	1.85	J	4	1.02	6.39	11/18/25 21:01	VL111825
79-01-6	Trichloroethene	0.10	0.54	U	4	0.54	0.64	11/18/25 21:01	VL111825
108-88-3	Toluene	28.3	107		4	2.41	7.54	11/18/25 21:01	VL111825
127-18-4	Tetrachloroethene	0.99	6.71		4	0.41	0.81	11/18/25 21:01	VL111825
100-41-4	Ethyl Benzene	2.00	8.69		4	3.30	8.69	11/18/25 21:01	VL111825
179601-23-1	m/p-Xylene	6.40	27.8		4	6.95	17.4	11/18/25 21:01	VL111825
95-47-6	o-Xylene	2.20	9.56		4	3.65	8.69	11/18/25 21:01	VL111825
108-67-8	1,3,5-Trimethylbenzene	0.72	3.54	U	4	3.54	9.83	11/18/25 21:01	VL111825
95-63-6	1,2,4-Trimethylbenzene	0.92	4.52	J	4	3.54	9.83	11/18/25 21:01	VL111825
91-20-3	Naphthalene	0.050	0.26	U	4	0.26	2.10	11/18/25 21:01	VL111825
110-54-3	Hexane	6.50	22.9		4	2.26	7.05	11/18/25 21:01	VL111825

SURROGATES

460-00-4	1-Bromo-4-Fluorobenzene	10.3		65 - 135	103%	SPK: 10
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INTERNAL STANDARDS

	Area Count	
74-97-5	Bromochloromethane	93500
540-36-3	1,4-Difluorobenzene	242000
3114-55-4	Chlorobenzene-d5	194000

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\VL111825\
 Data File : VL043223.D
 Acq On : 18 Nov 2025 21:01
 Operator : SY/MD
 Sample : Q3651-02 4X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV2

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 11/19/2025
 Supervised By :Mahesh Dadoda 11/19/2025

Quant Time: Nov 19 01:40:14 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M

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

QLast Update : Wed Nov 19 01:11:25 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.784	49	93548	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.949	114	242389	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.872	117	194239	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.367	95	146822	10.312	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.100%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.499	85	1863	0.141	ppbv #	88
9) Propene	1.486	41	3767	0.684	ppbv #	1
10) Heptane	4.975	43	8617m	0.525	ppbv	
11) Trichlorofluoromethane	1.877	101	14421	1.128	ppbv	94
13) Ethanol	1.719	45	6187	3.193	ppbv	93
15) Acetone	1.832	43	297113	22.860	ppbv	100
17) tert-Butyl alcohol	2.039	59	1822m	0.107	ppbv	
19) Isopropyl Alcohol	1.884	45	53776	7.322	ppbv #	1
20) Methylene Chloride	2.059	84	119411	32.984	ppbv	96
26) Hexane	2.823	57	19949	1.623	ppbv #	45
30) Cyclohexane	3.852	84	3231	0.314	ppbv #	85
32) 1,1,1-Trichloroethane	3.366	97	1763m	0.095	ppbv	
34) 2-Butanone	2.554	43	62654	3.662	ppbv	100
36) Benzene	3.648	78	3340m	0.144	ppbv	
44) 2,2,4-Trimethylpentane	4.632	57	5693m	0.143	ppbv	
51) 2-Hexanone	7.431	43	13865m	0.741	ppbv	
52) Tetrachloroethene	8.215	164	2137m	0.247	ppbv	
53) Toluene	6.920	91	194541	7.078	ppbv	97
58) Ethyl Benzene	9.351	91	19035	0.509	ppbv	99
59) m/p-Xylene	9.526	91	48124	1.606	ppbv	100
60) o-Xylene	9.953	91	16493	0.551	ppbv	97
73) 1,3,5-Trimethylbenzene	11.199	105	3667	0.120	ppbv	95
74) 1,2,4-Trimethylbenzene	11.529	105	7730	0.231	ppbv #	49

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

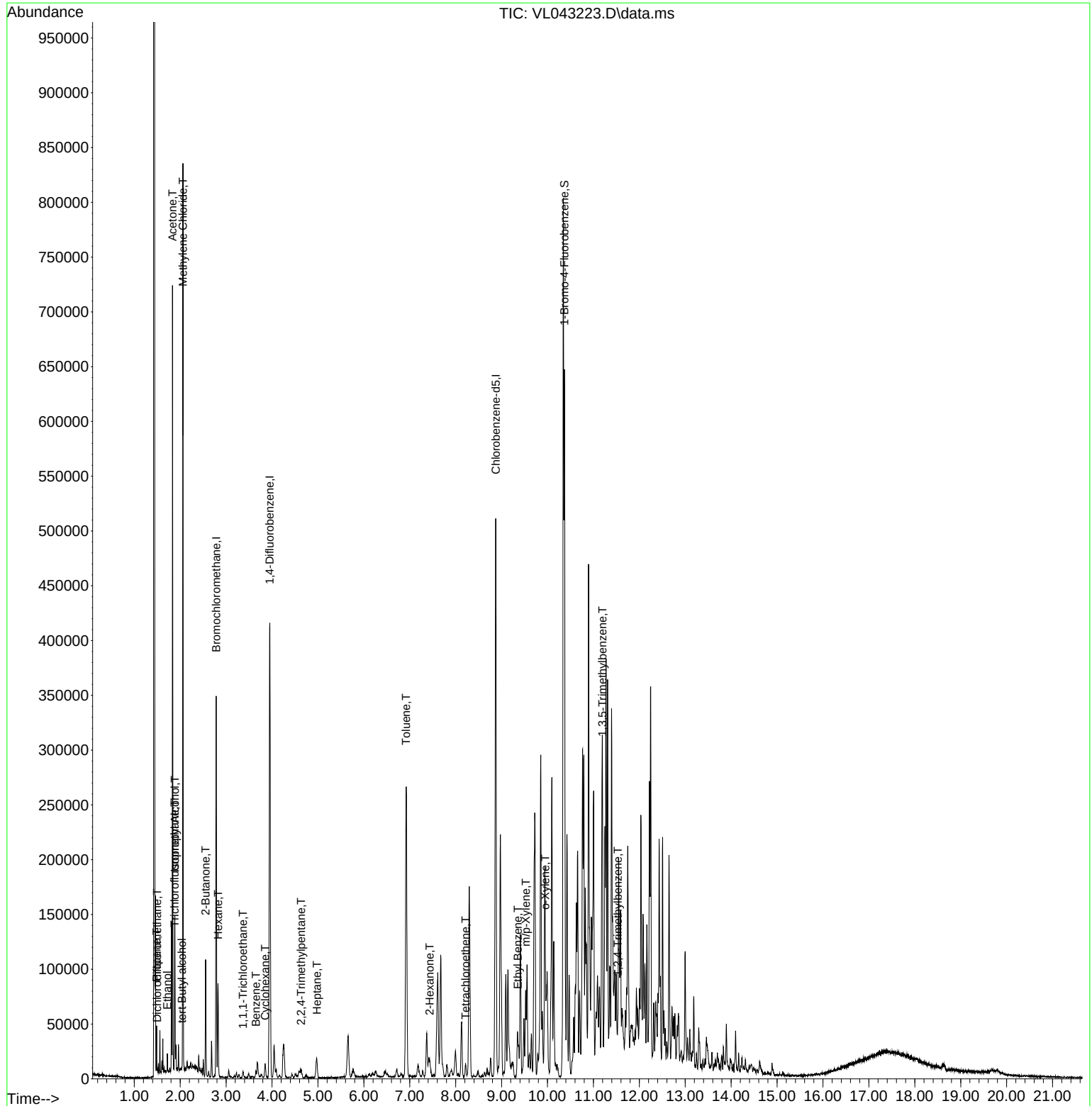
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111825\
Data File : VL043223.D
Acq On : 18 Nov 2025 21:01
Operator : SY/MD
Sample : Q3651-02 4X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

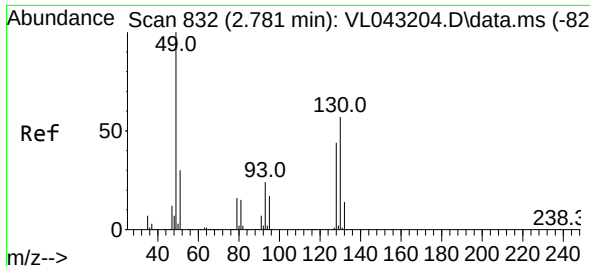
Instrument :
MSVOA_L
ClientSampleId :
SV2

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025

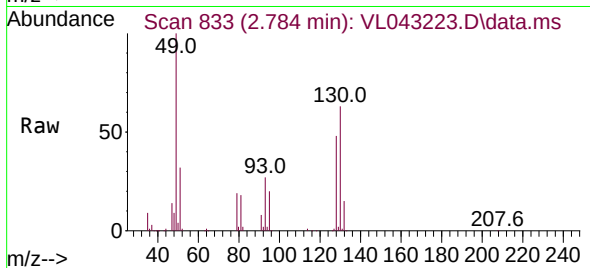
Quant Time: Nov 19 01:40:14 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Wed Nov 19 01:11:25 2025
Response via : Initial Calibration





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 832
Delta R.T. 0.003 min
Lab File: VL043223.D
Acq: 18 Nov 2025 21:01

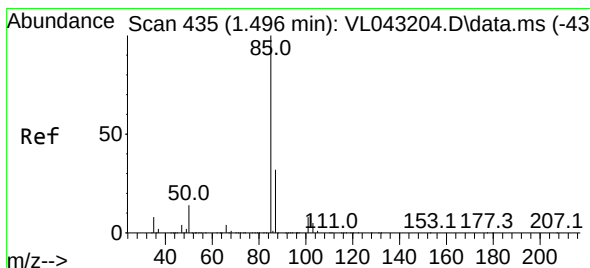
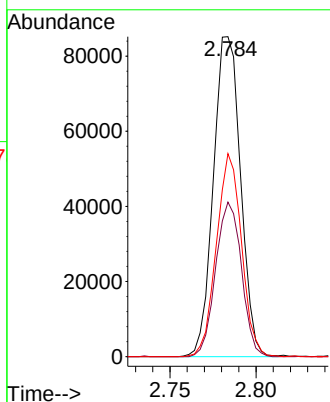
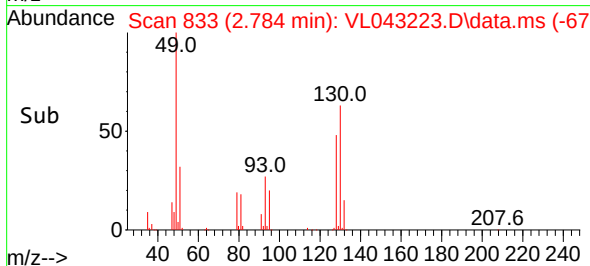
Instrument :
MSVOA_L
ClientSampleId :
SV2



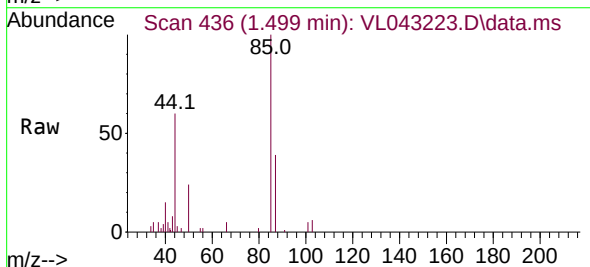
Tgt Ion: 49 Resp: 93548
Ion Ratio Lower Upper
49 100
128 45.8 23.0 69.0
130 58.6 29.9 89.7

Manual Integrations
APPROVED

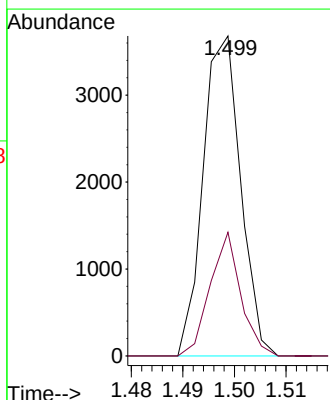
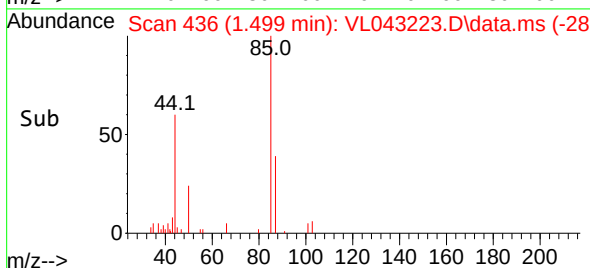
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025

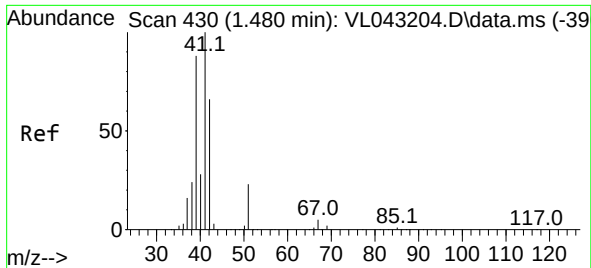


#2
Dichlorodifluoromethane
Concen: 0.141 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.003 min
Lab File: VL043223.D
Acq: 18 Nov 2025 21:01



Tgt Ion: 85 Resp: 1863
Ion Ratio Lower Upper
85 100
87 38.6 25.4 38.2#





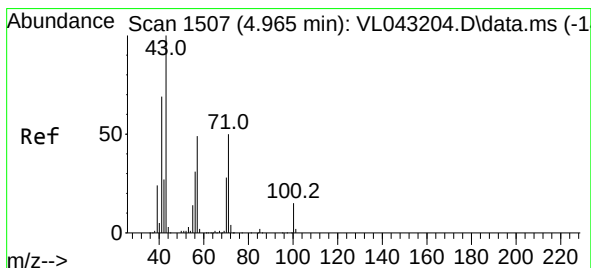
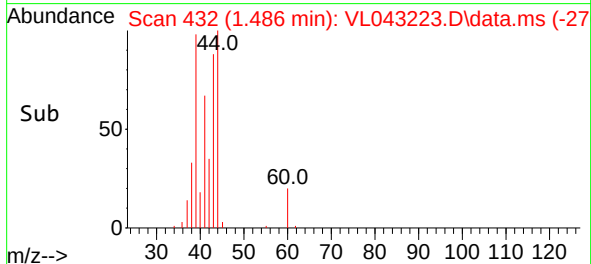
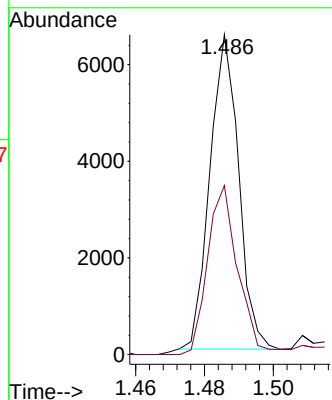
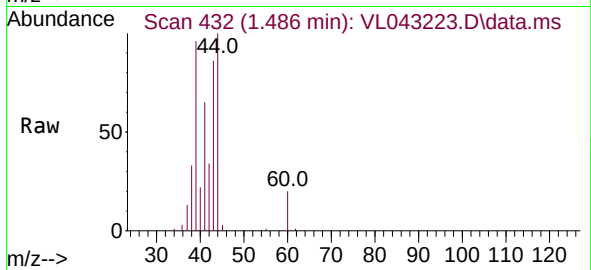
#9
 Propene
 Concen: 0.684 ppbv
 RT: 1.486 min Scan# 430
 Delta R.T. 0.006 min
 Lab File: VL043223.D
 Acq: 18 Nov 2025 21:01

Instrument :
 MSVOA_L
 ClientSampleId :
 SV2

Tgt Ion: 41 Resp: 3762
 Ion Ratio Lower Upper
 41 100
 42 62.5 3.7 5.5

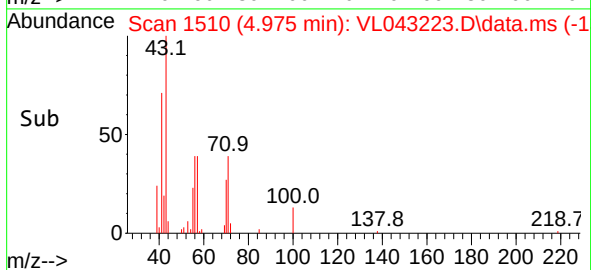
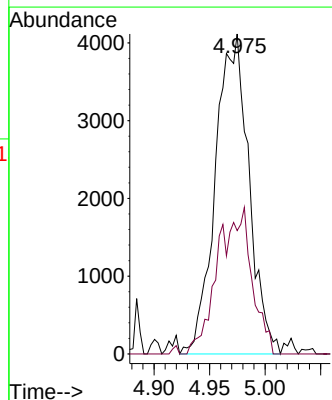
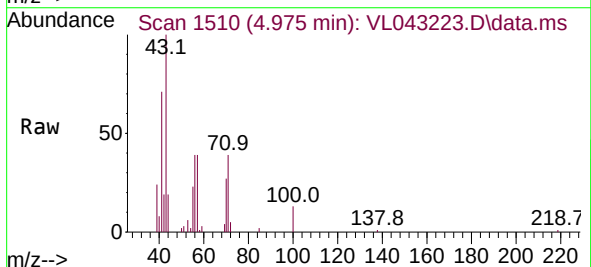
Manual Integrations
 APPROVED

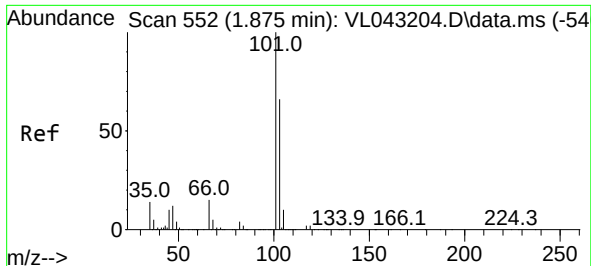
Reviewed By :Semsettin Yesilyurt 11/19/2025
 Supervised By :Mahesh Dadoda 11/19/2025



#10
 Heptane
 Concen: 0.525 ppbv m
 RT: 4.975 min Scan# 1510
 Delta R.T. 0.009 min
 Lab File: VL043223.D
 Acq: 18 Nov 2025 21:01

Tgt Ion: 43 Resp: 8617
 Ion Ratio Lower Upper
 43 100
 57 0.0 39.7 59.5





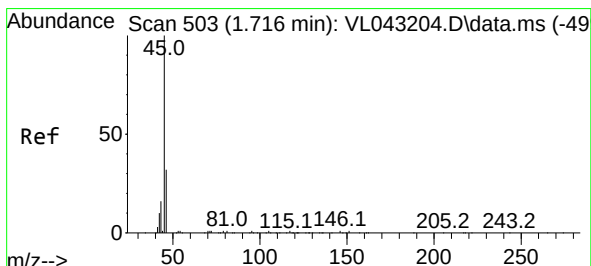
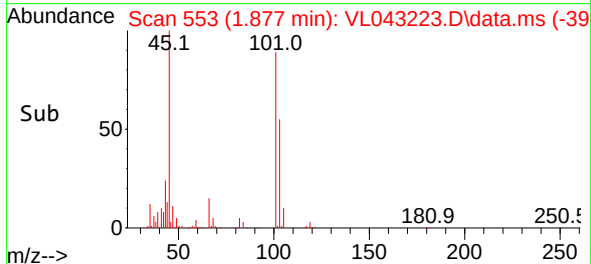
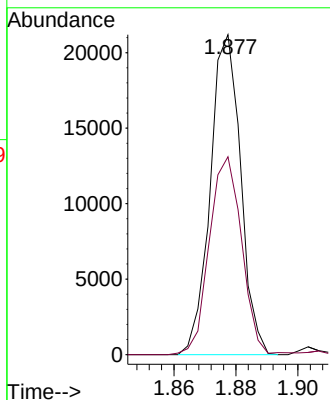
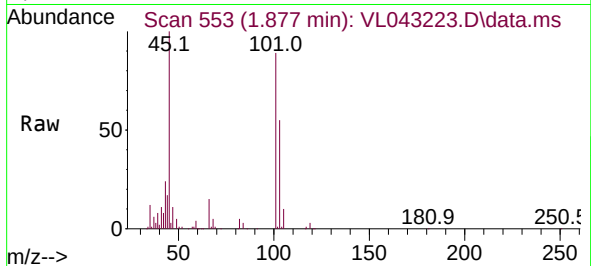
#11
Trichlorofluoromethane
Concen: 1.128 ppbv
RT: 1.877 min Scan# 501
Delta R.T. 0.003 min
Lab File: VL043223.D
Acq: 18 Nov 2025 21:01

Instrument :
MSVOA_L
ClientSampleId :
SV2

Tgt Ion:101 Resp: 1442
Ion Ratio Lower Upper
101 100
103 61.3 52.6 79.0

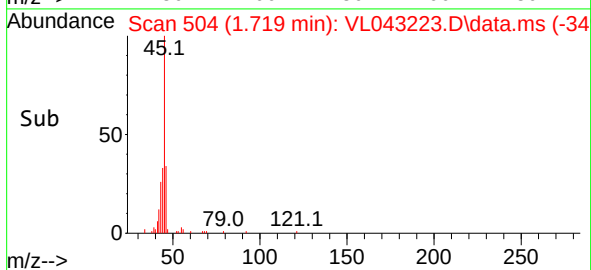
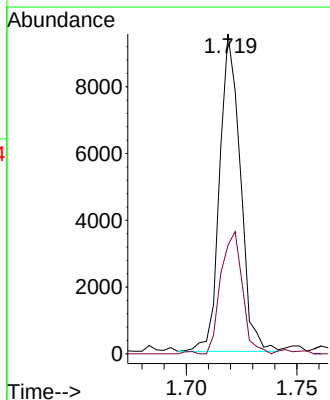
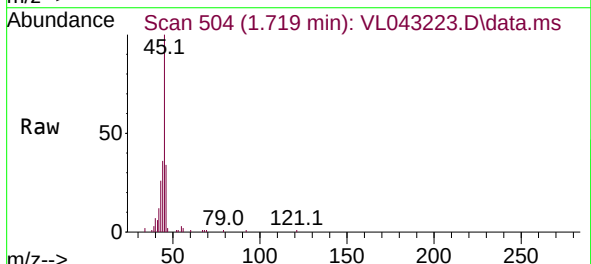
Manual Integrations
APPROVED

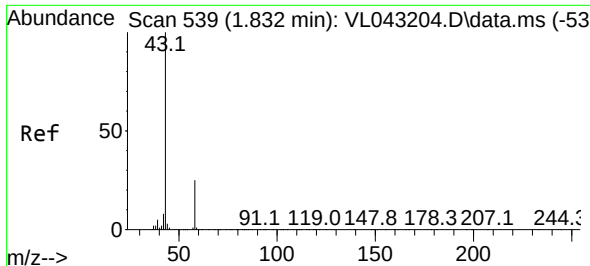
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#13
Ethanol
Concen: 3.193 ppbv
RT: 1.719 min Scan# 504
Delta R.T. 0.003 min
Lab File: VL043223.D
Acq: 18 Nov 2025 21:01

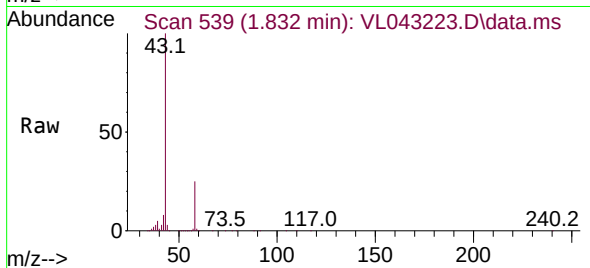
Tgt Ion: 45 Resp: 6187
Ion Ratio Lower Upper
45 100
46 41.7 15.0 59.8





#15
Acetone
Concen: 22.860 ppbv
RT: 1.832 min Scan# 539
Delta R.T. -0.000 min
Lab File: VL043223.D
Acq: 18 Nov 2025 21:01

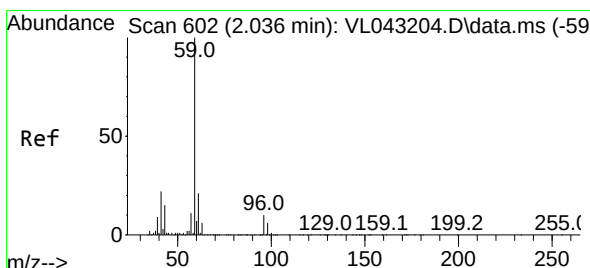
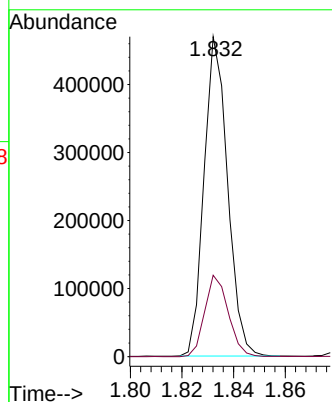
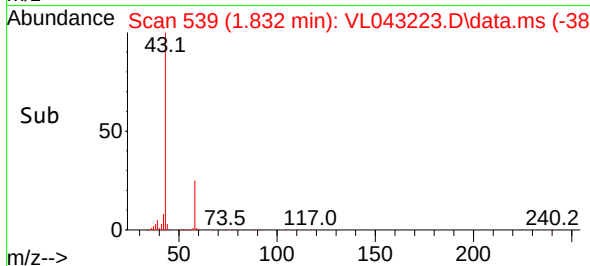
Instrument :
MSVOA_L
ClientSampleId :
SV2



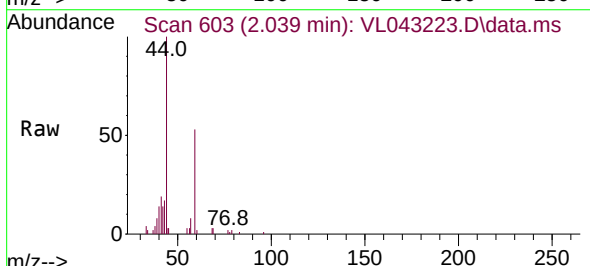
Tgt Ion: 43 Resp: 297113
Ion Ratio Lower Upper
43 100
58 25.7 20.7 31.1

Manual Integrations
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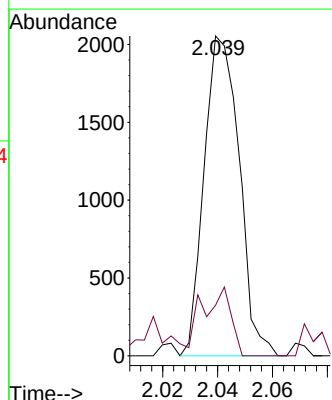
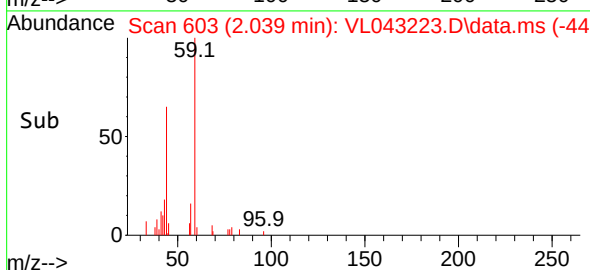
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025

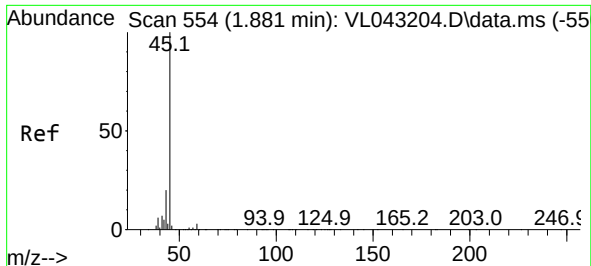


#17
tert-Butyl alcohol
Concen: 0.107 ppbv m
RT: 2.039 min Scan# 603
Delta R.T. 0.003 min
Lab File: VL043223.D
Acq: 18 Nov 2025 21:01



Tgt Ion: 59 Resp: 1822
Ion Ratio Lower Upper
59 100
57 12.3 9.0 13.4





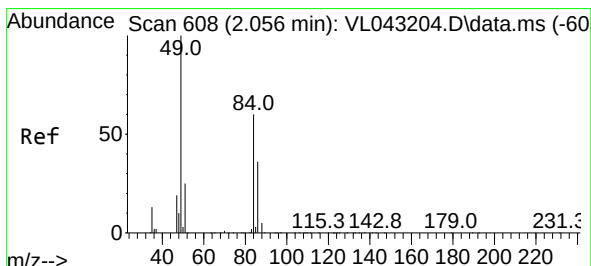
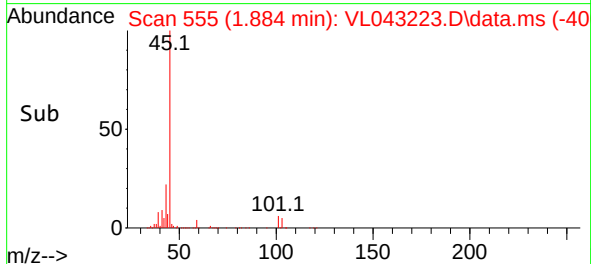
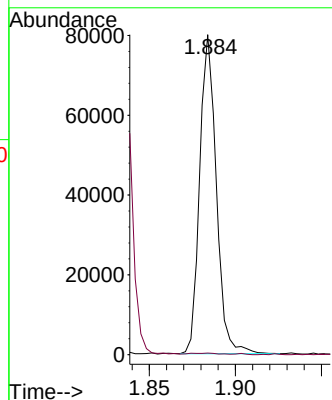
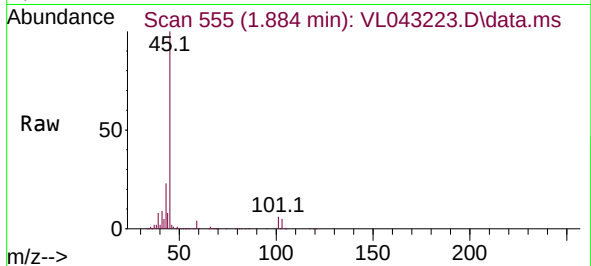
#19
Isopropyl Alcohol
Concen: 7.322 ppbv
RT: 1.884 min Scan# 554
Delta R.T. 0.003 min
Lab File: VL043223.D
Acq: 18 Nov 2025 21:01

Instrument :
MSVOA_L
ClientSampleId :
SV2

Tgt Ion: 45 Resp: 53776
Ion Ratio Lower Upper
45 100
58 142.2 31.3 46.9

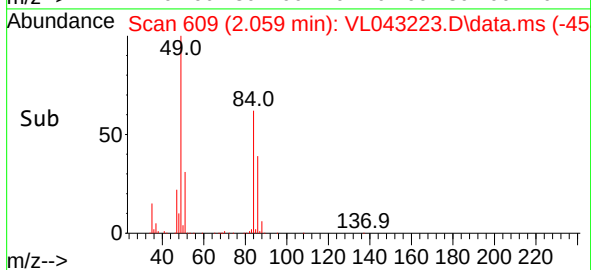
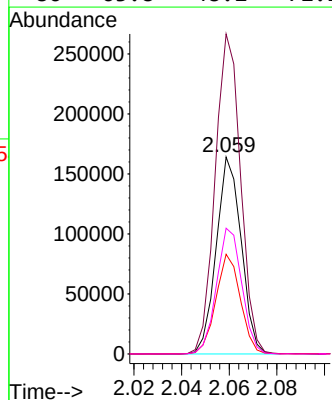
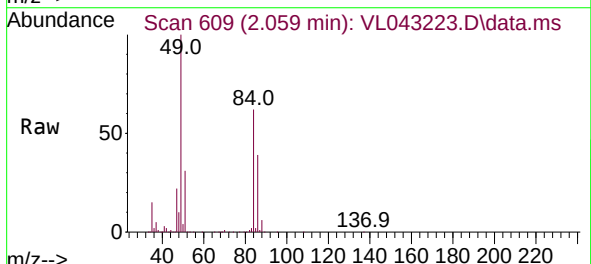
Manual Integrations
APPROVED

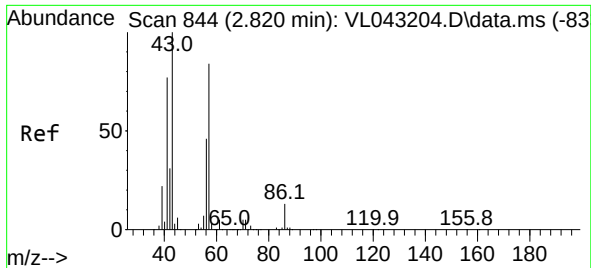
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#20
Methylene Chloride
Concen: 32.984 ppbv
RT: 2.059 min Scan# 609
Delta R.T. 0.003 min
Lab File: VL043223.D
Acq: 18 Nov 2025 21:01

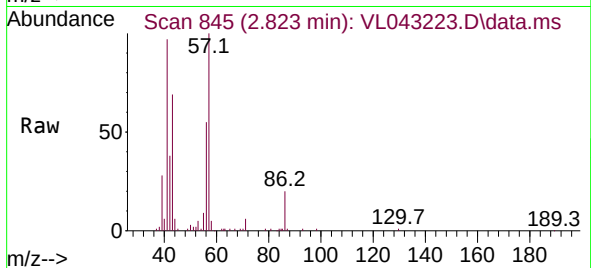
Tgt Ion: 84 Resp: 119411
Ion Ratio Lower Upper
84 100
49 162.5 132.9 199.3
51 50.6 34.8 52.2
86 63.8 48.2 72.2





#26
Hexane
Concen: 1.623 ppbv
RT: 2.823 min Scan# 844
Delta R.T. 0.003 min
Lab File: VL043223.D
Acq: 18 Nov 2025 21:01

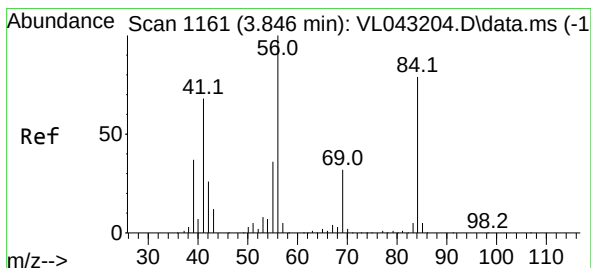
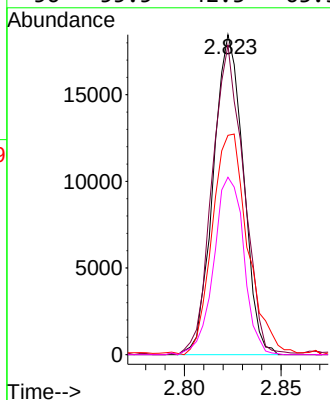
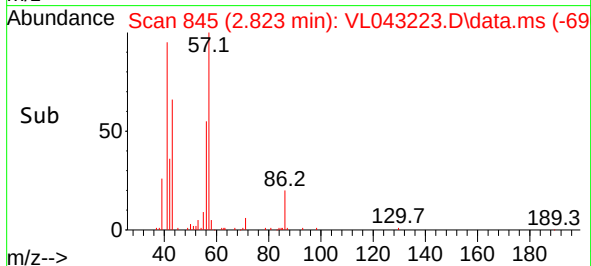
Instrument :
MSVOA_L
ClientSampleId :
SV2



Tgt Ion: 57 Resp: 19949
Ion Ratio Lower Upper
57 100
41 102.9 74.6 111.8
43 83.5 179.0 268.4
56 55.5 42.3 63.5

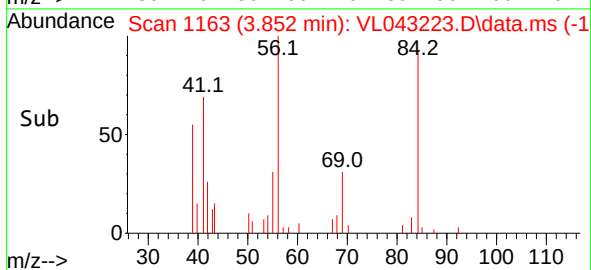
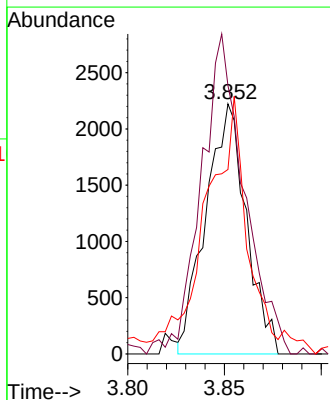
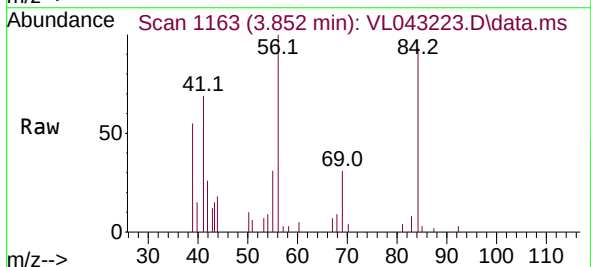
Manual Integrations
APPROVED

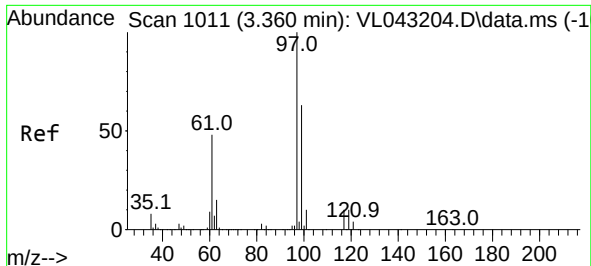
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#30
Cyclohexane
Concen: 0.314 ppbv
RT: 3.852 min Scan# 1163
Delta R.T. 0.006 min
Lab File: VL043223.D
Acq: 18 Nov 2025 21:01

Tgt Ion: 84 Resp: 3231
Ion Ratio Lower Upper
84 100
56 136.5 104.7 157.1
41 114.8 69.0 103.6





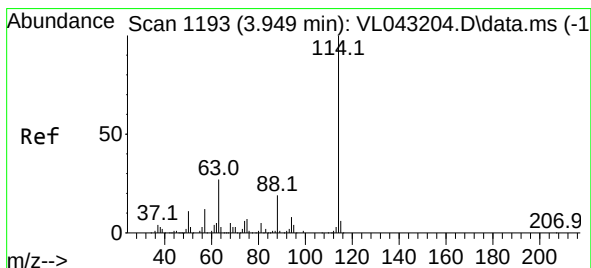
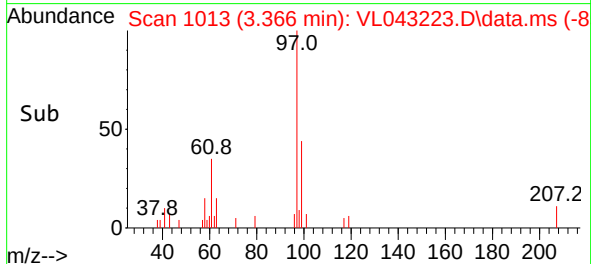
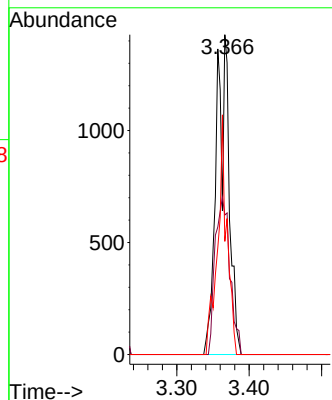
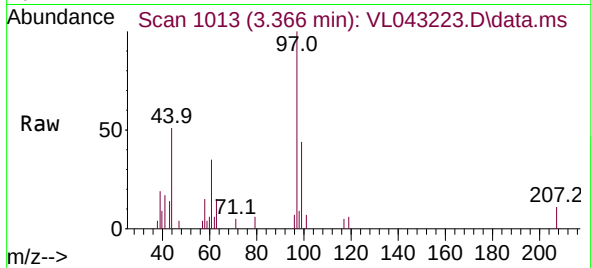
#32
1,1,1-Trichloroethane
Concen: 0.095 ppbv m
RT: 3.366 min Scan# 1011
Delta R.T. 0.006 min
Lab File: VL043223.D
Acq: 18 Nov 2025 21:01

Instrument :
MSVOA_L
ClientSampleId :
SV2

Tgt Ion: 97 Resp: 1763
Ion Ratio Lower Upper
97 100
99 56.8 50.3 75.5
61 55.0 38.9 58.3

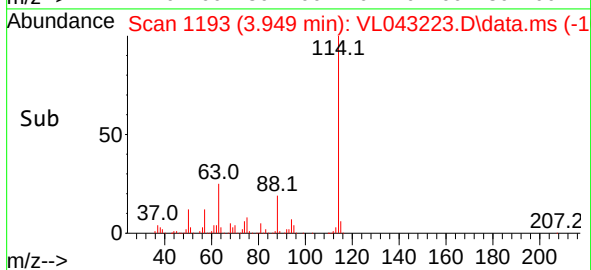
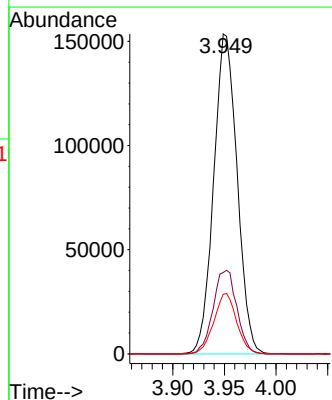
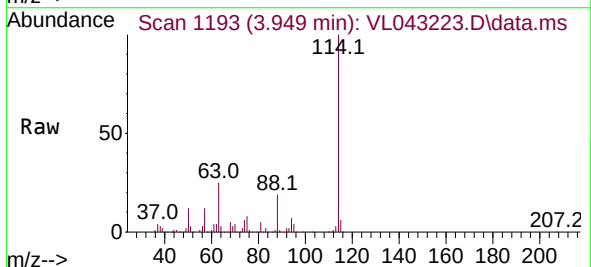
Manual Integrations
APPROVED

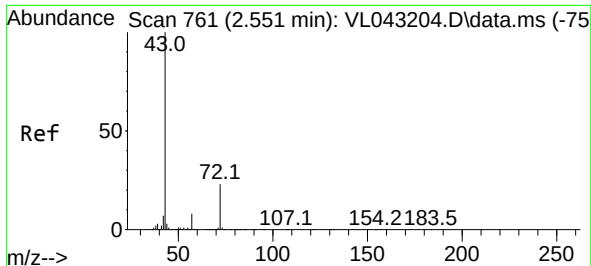
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.949 min Scan# 1193
Delta R.T. -0.000 min
Lab File: VL043223.D
Acq: 18 Nov 2025 21:01

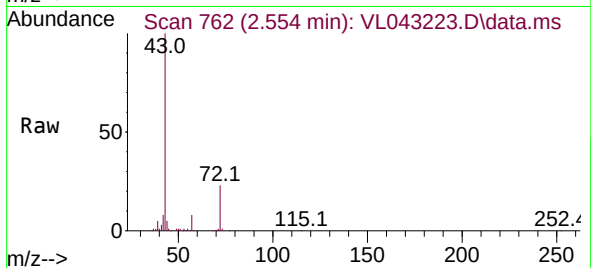
Tgt Ion:114 Resp: 242389
Ion Ratio Lower Upper
114 100
63 26.5 21.0 31.6
88 18.4 14.9 22.3





#34
2-Butanone
Concen: 3.662 ppbv
RT: 2.554 min Scan# 761
Delta R.T. 0.003 min
Lab File: VL043223.D
Acq: 18 Nov 2025 21:01

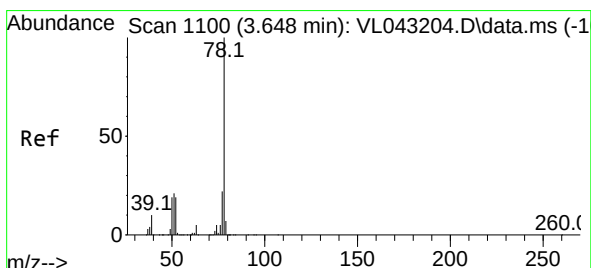
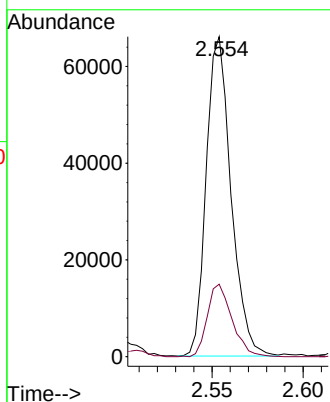
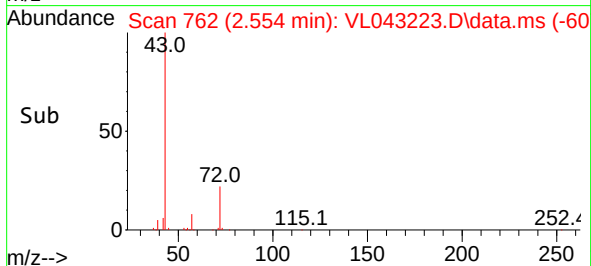
Instrument :
MSVOA_L
ClientSampleId :
SV2



Tgt Ion: 43 Resp: 62654
Ion Ratio Lower Upper
43 100
72 22.5 18.1 27.1

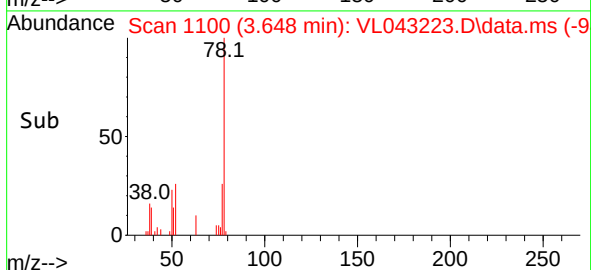
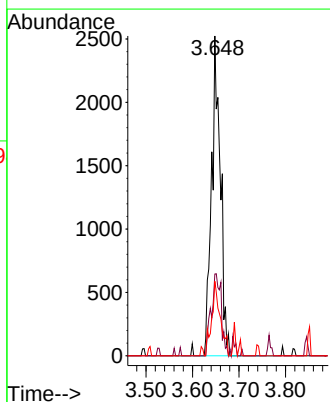
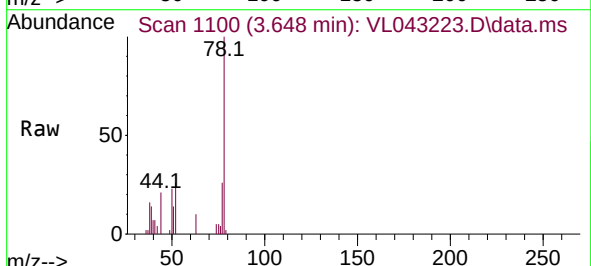
Manual Integrations
APPROVED

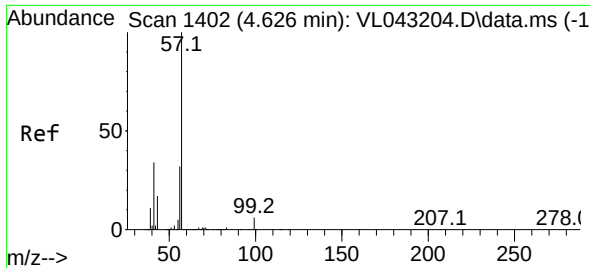
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#36
Benzene
Concen: 0.144 ppbv m
RT: 3.648 min Scan# 1100
Delta R.T. -0.000 min
Lab File: VL043223.D
Acq: 18 Nov 2025 21:01

Tgt Ion: 78 Resp: 3340
Ion Ratio Lower Upper
78 100
77 25.6 17.5 26.3
50 23.3 15.5 23.3#





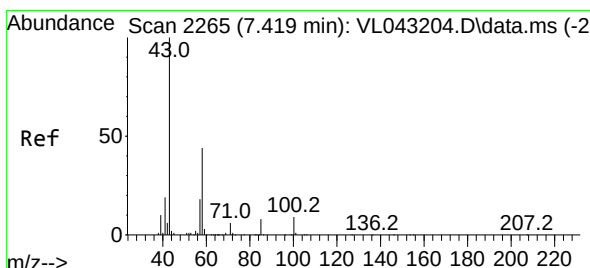
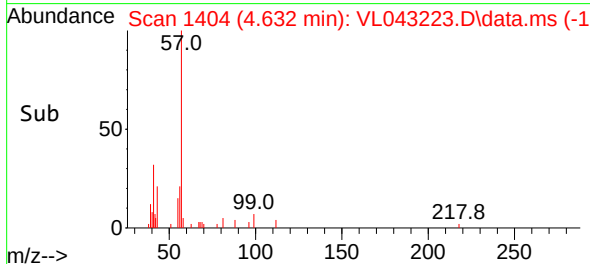
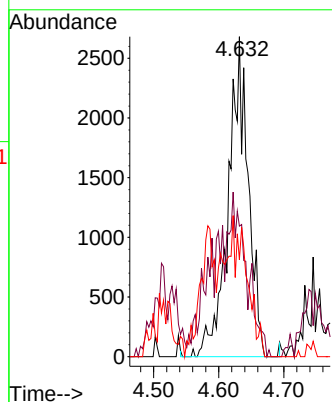
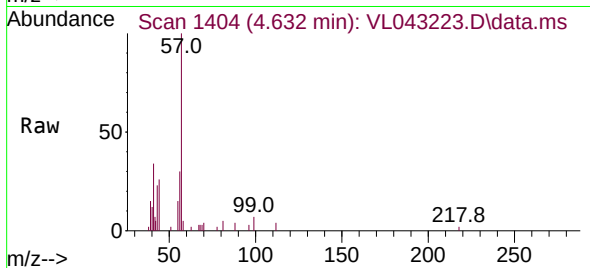
#44
2,2,4-Trimethylpentane
Concen: 0.143 ppbv m
RT: 4.632 min Scan# 1402
Delta R.T. 0.006 min
Lab File: VL043223.D
Acq: 18 Nov 2025 21:01

Instrument :
MSVOA_L
ClientSampleId :
SV2

Tgt Ion: 57 Resp: 5693
Ion Ratio Lower Upper
57 100
41 62.8 28.0 42.0
56 36.9 25.6 38.4

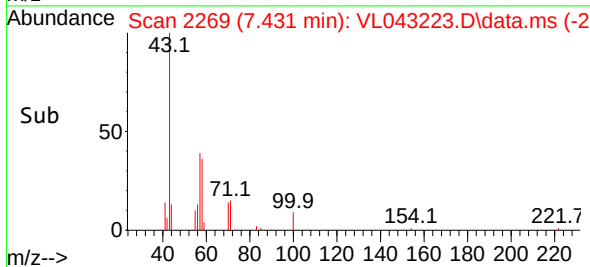
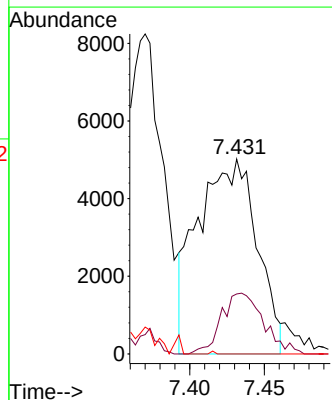
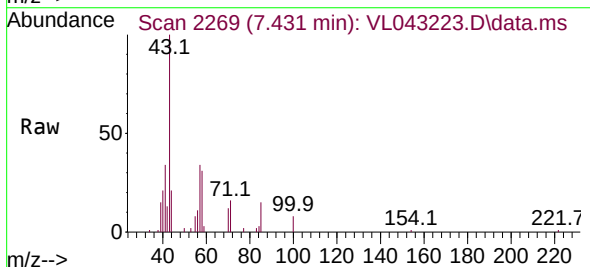
Manual Integrations
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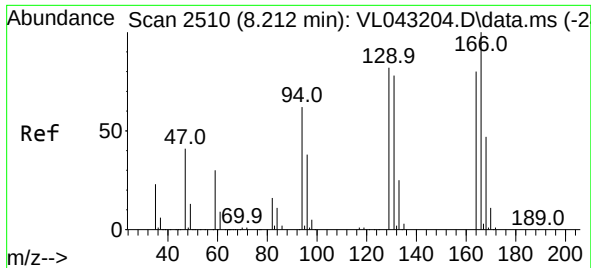
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#51
2-Hexanone
Concen: 0.741 ppbv m
RT: 7.431 min Scan# 2269
Delta R.T. 0.013 min
Lab File: VL043223.D
Acq: 18 Nov 2025 21:01

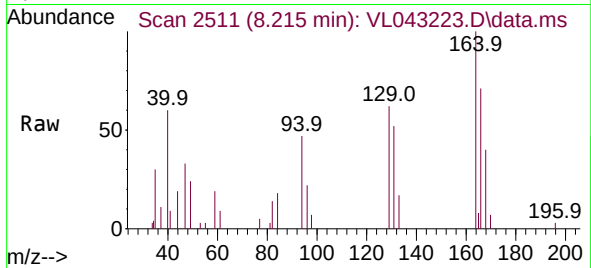
Tgt Ion: 43 Resp: 13865
Ion Ratio Lower Upper
43 100
58 0.0 38.4 57.6
98 0.0 0.0 0.0





#52
Tetrachloroethene
Concen: 0.247 ppbv m
RT: 8.215 min Scan# 2111
Delta R.T. 0.003 min
Lab File: VL043223.D
Acq: 18 Nov 2025 21:01

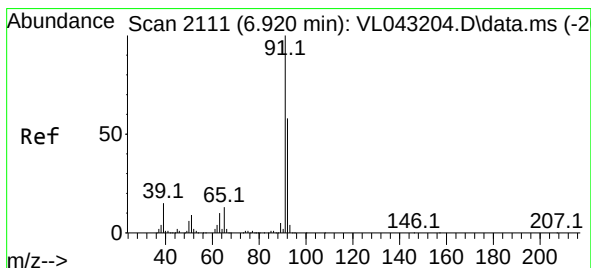
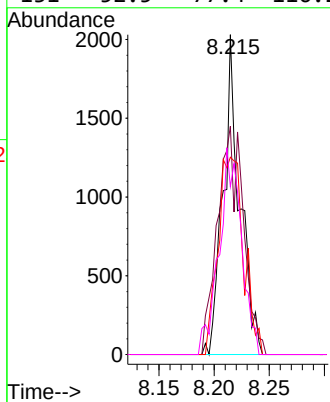
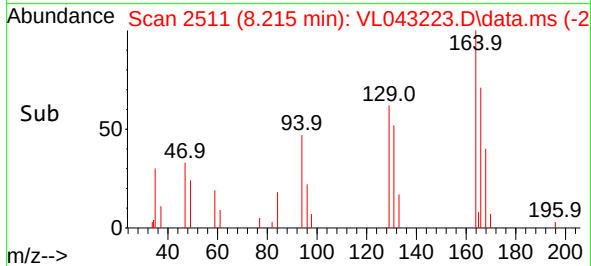
Instrument :
MSVOA_L
ClientSampleId :
SV2



Tgt Ion:164 Resp: 2137
Ion Ratio Lower Upper
164 100
166 71.3 99.4 149.2
129 61.7 81.8 122.8
131 52.5 77.4 116.2

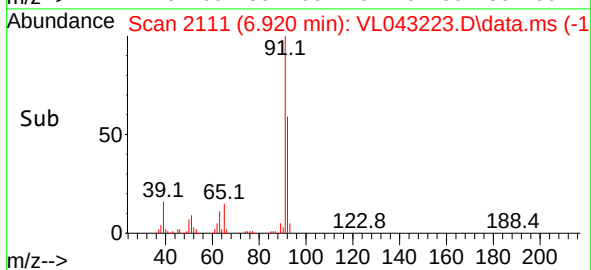
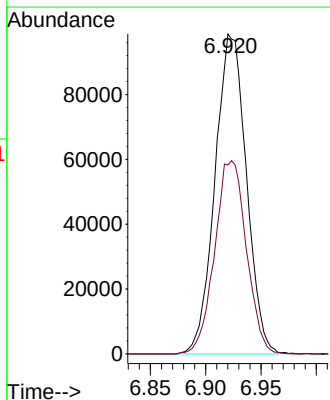
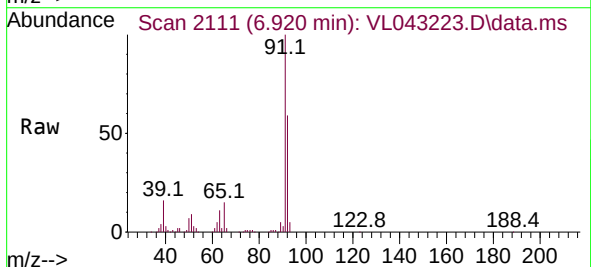
Manual Integrations
APPROVED

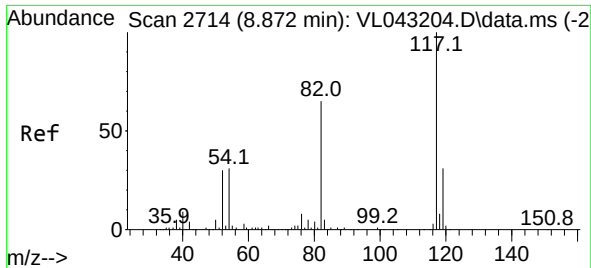
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#53
Toluene
Concen: 7.078 ppbv
RT: 6.920 min Scan# 2111
Delta R.T. -0.000 min
Lab File: VL043223.D
Acq: 18 Nov 2025 21:01

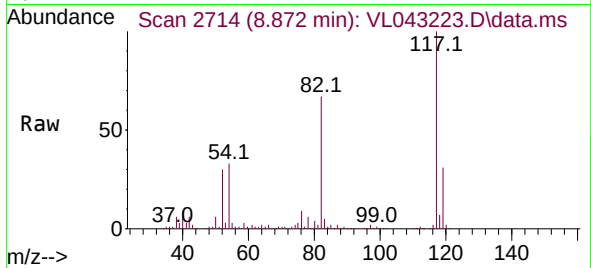
Tgt Ion: 91 Resp: 194541
Ion Ratio Lower Upper
91 100
92 61.1 47.4 71.0





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.872 min Scan# 2714
Delta R.T. -0.000 min
Lab File: VL043223.D
Acq: 18 Nov 2025 21:01

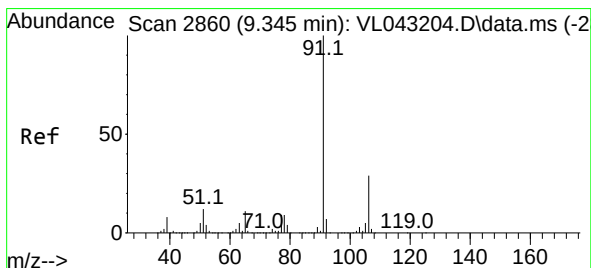
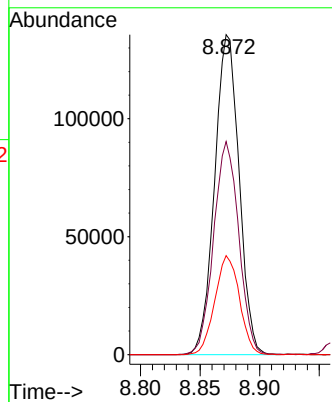
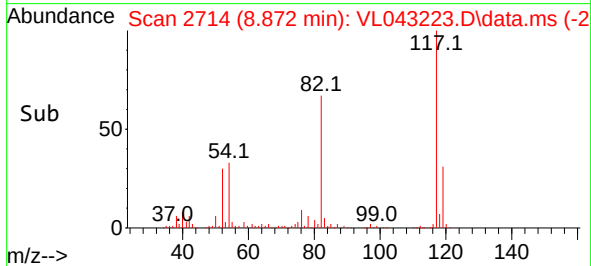
Instrument :
MSVOA_L
ClientSampleId :
SV2



Tgt Ion: 117 Resp: 194239
Ion Ratio Lower Upper
117 100
82 68.3 56.1 84.1
119 31.2 25.0 37.6

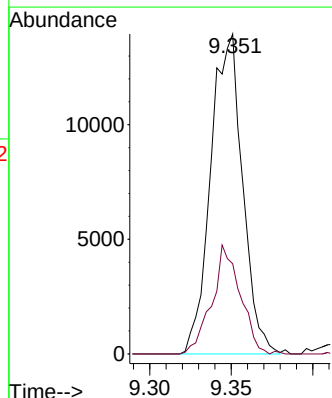
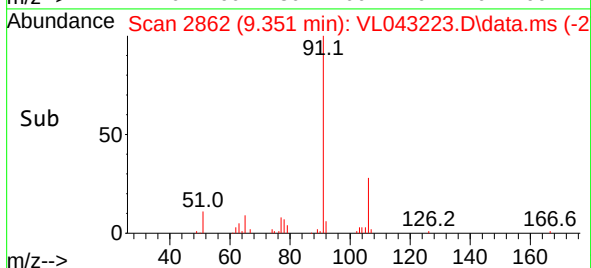
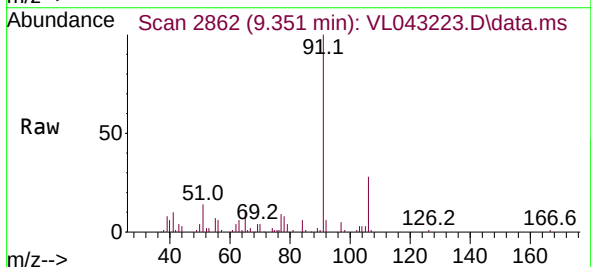
Manual Integrations
APPROVED

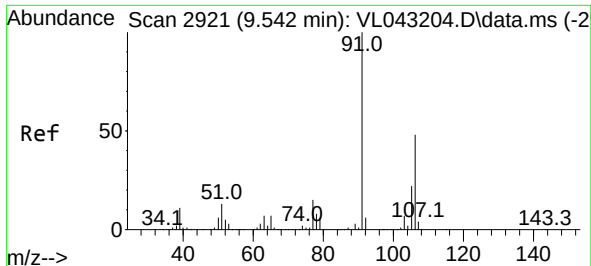
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#58
Ethyl Benzene
Concen: 0.509 ppbv
RT: 9.351 min Scan# 2862
Delta R.T. 0.006 min
Lab File: VL043223.D
Acq: 18 Nov 2025 21:01

Tgt Ion: 91 Resp: 19035
Ion Ratio Lower Upper
91 100
106 28.2 22.8 34.2





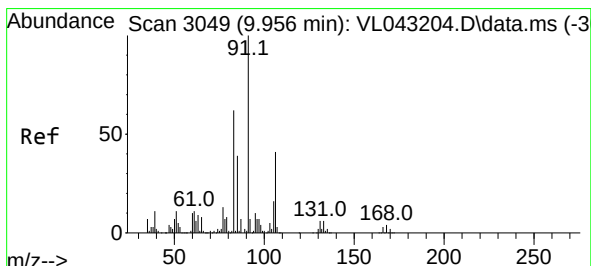
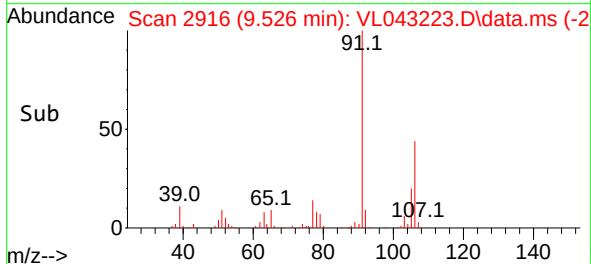
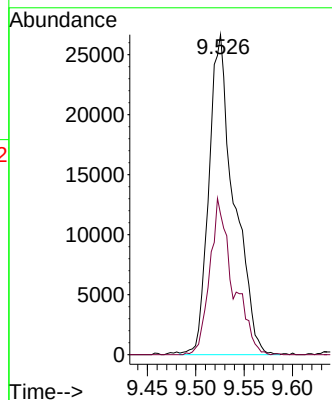
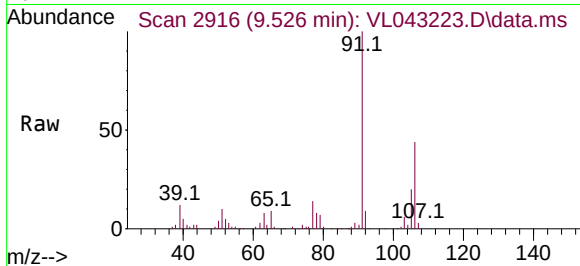
#59
m/p-Xylene
Concen: 1.606 ppbv
RT: 9.526 min Scan# 2916
Delta R.T. -0.016 min
Lab File: VL043223.D
Acq: 18 Nov 2025 21:01

Instrument :
MSVOA_L
ClientSampleId :
SV2

Tgt Ion: 91 Resp: 48124
Ion Ratio Lower Upper
91 100
106 45.3 36.1 54.1

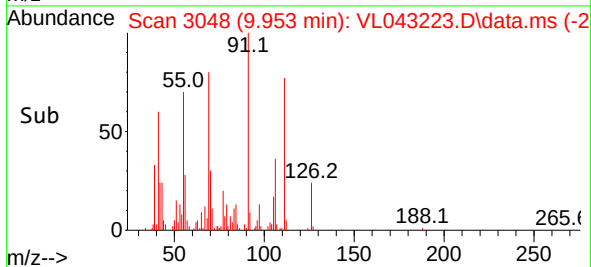
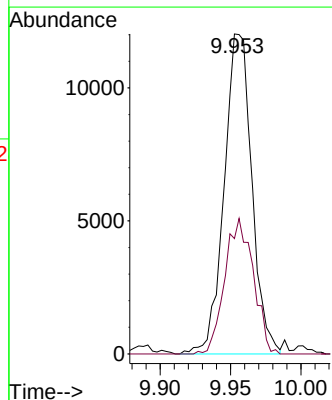
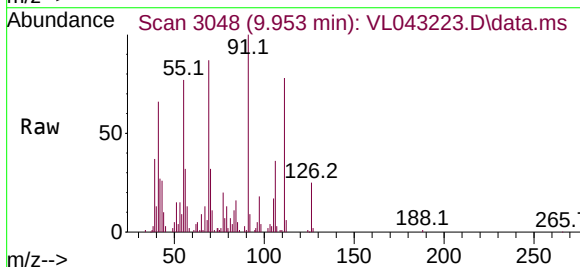
Manual Integrations
APPROVED

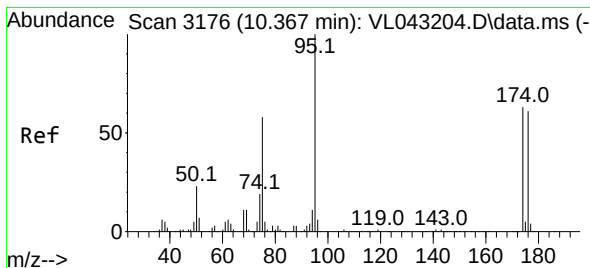
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#60
o-Xylene
Concen: 0.551 ppbv
RT: 9.953 min Scan# 3048
Delta R.T. -0.004 min
Lab File: VL043223.D
Acq: 18 Nov 2025 21:01

Tgt Ion: 91 Resp: 16493
Ion Ratio Lower Upper
91 100
106 43.5 20.9 62.8





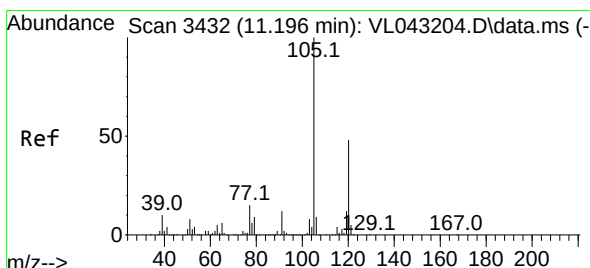
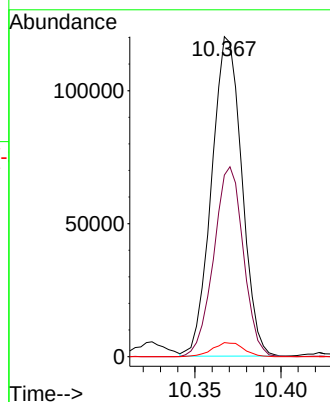
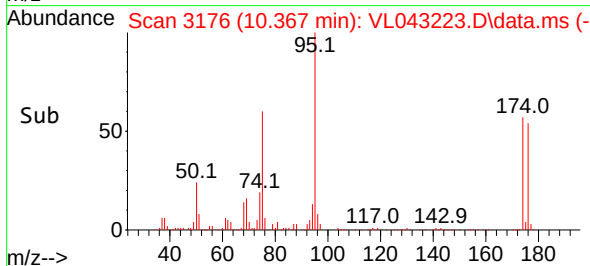
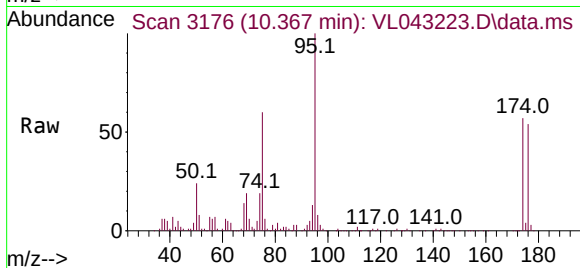
#68
1-Bromo-4-Fluorobenzene
Concen: 10.312 ppbv
RT: 10.367 min Scan# 3176
Delta R.T. -0.000 min
Lab File: VL043223.D
Acq: 18 Nov 2025 21:01

Instrument :
MSVOA_L
ClientSampleId :
SV2

Tgt Ion: 95 Resp: 146822
Ion Ratio Lower Upper
95 100
174 58.1 50.2 75.2
175 4.5 4.1 6.1

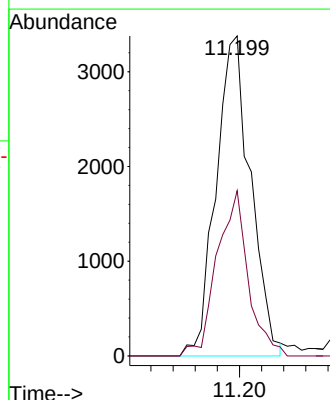
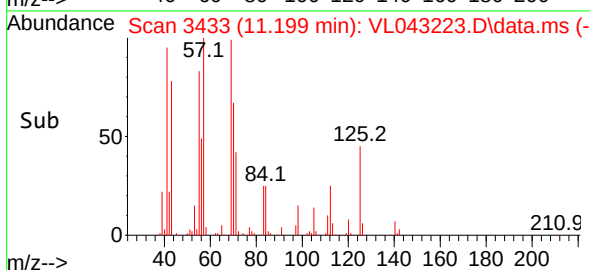
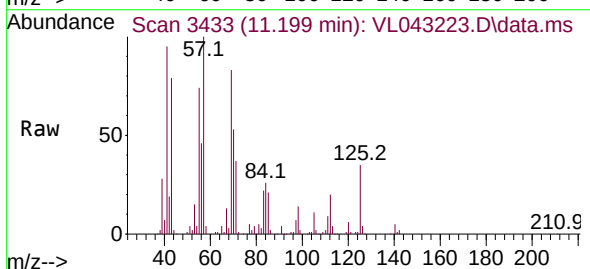
Manual Integrations
APPROVED

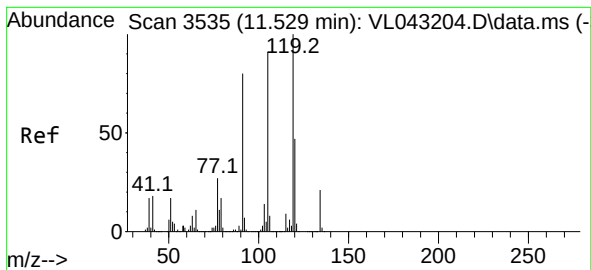
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#73
1,3,5-Trimethylbenzene
Concen: 0.120 ppbv
RT: 11.199 min Scan# 3433
Delta R.T. 0.003 min
Lab File: VL043223.D
Acq: 18 Nov 2025 21:01

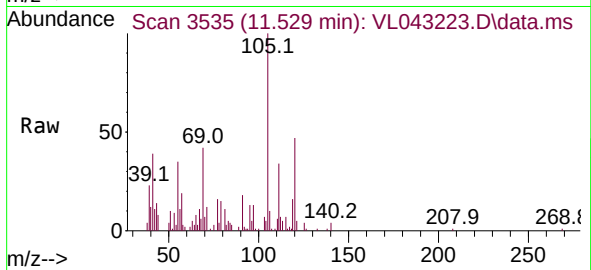
Tgt Ion:105 Resp: 3667
Ion Ratio Lower Upper
105 100
120 51.6 38.6 57.8





#74
 1,2,4-Trimethylbenzene
 Concen: 0.231 ppbv
 RT: 11.529 min Scan# 3535
 Delta R.T. -0.000 min
 Lab File: VL043223.D
 Acq: 18 Nov 2025 21:01

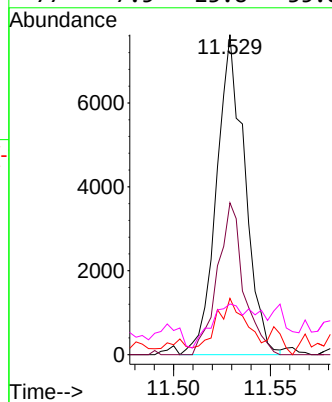
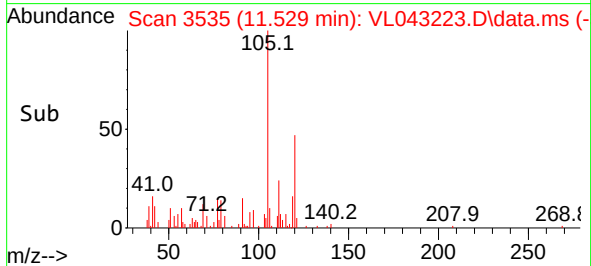
Instrument :
 MSVOA_L
 ClientSampleId :
 SV2



Tgt Ion:	105	Resp:	7730
Ion	Ratio	Lower	Upper
105	100		
120	47.4	41.7	62.5
91	12.7	70.0	105.0
77	7.5	23.8	35.8

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 11/19/2025
 Supervised By :Mahesh Dadoda 11/19/2025



Report of Analysis

Client: GFE LLC
Project: 316 TO 326 WESTBURY AVE
Client Sample ID: IA1
Lab Sample ID: Q3651-03
Analytical Method: TO-15
Sample Wt/Vol: 400 mL

Date Collected: 11/11/25
Date Received: 11/14/25
SDG No.: Q3651
Matrix: Air
Test: VOCMS Group2

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qua.	DF	MDL ug/m3	LOQ / CRQL ug/m3	Date Ana.	BatchID
TARGETS									
75-01-4	Vinyl Chloride	0.050	0.13		1	0.080	0.080	11/18/25 15:57	VL111825
142-82-5	Heptane	0.66	2.70		1	0.70	2.05	11/18/25 15:57	VL111825
75-34-3	1,1-Dichloroethane	0.13	0.53	U	1	0.53	2.02	11/18/25 15:57	VL111825
110-82-7	Cyclohexane	0.31	1.07	J	1	0.76	1.72	11/18/25 15:57	VL111825
156-59-2	cis-1,2-Dichloroethene	0.10	0.40	U	1	0.40	1.98	11/18/25 15:57	VL111825
71-55-6	1,1,1-Trichloroethane	0.020	0.11	U	1	0.11	0.16	11/18/25 15:57	VL111825
540-84-1	2,2,4-Trimethylpentane	0.14	0.65	U	1	0.65	2.34	11/18/25 15:57	VL111825
71-43-2	Benzene	0.18	0.58	J	1	0.26	1.60	11/18/25 15:57	VL111825
79-01-6	Trichloroethene	0.020	0.11	U	1	0.11	0.16	11/18/25 15:57	VL111825
108-88-3	Toluene	180	678	E	1	0.60	1.88	11/18/25 15:57	VL111825
127-18-4	Tetrachloroethene	0.040	0.27		1	0.14	0.20	11/18/25 15:57	VL111825
100-41-4	Ethyl Benzene	1.50	6.52		1	0.83	2.17	11/18/25 15:57	VL111825
179601-23-1	m/p-Xylene	6.50	28.2		1	1.78	4.34	11/18/25 15:57	VL111825
95-47-6	o-Xylene	1.80	7.82		1	0.91	2.17	11/18/25 15:57	VL111825
108-67-8	1,3,5-Trimethylbenzene	0.18	0.88	U	1	0.88	2.46	11/18/25 15:57	VL111825
95-63-6	1,2,4-Trimethylbenzene	0.59	2.90		1	0.88	2.46	11/18/25 15:57	VL111825
91-20-3	Naphthalene	0.12	0.63		1	0.050	0.52	11/18/25 15:57	VL111825
110-54-3	Hexane	0.16	0.56	U	1	0.56	1.76	11/18/25 15:57	VL111825

SURROGATES

460-00-4	1-Bromo-4-Fluorobenzene	10.5		65 - 135	105%	SPK: 10
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INTERNAL STANDARDS

	Area Count	
74-97-5	Bromochloromethane	107000
540-36-3	1,4-Difluorobenzene	268000
3114-55-4	Chlorobenzene-d5	213000

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\VL111825\
 Data File : VL043214.D
 Acq On : 18 Nov 2025 15:57
 Operator : SY/MD
 Sample : Q3651-03
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA1

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 11/19/2025
 Supervised By :Mahesh Dadoda 11/19/2025

Quant Time: Nov 19 01:35:56 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M

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

QLast Update : Wed Nov 19 01:11:25 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.794	49	106759	10.000	ppbv	0.01
33) 1,4-Difluorobenzene	3.962	114	268208	10.000	ppbv	0.01
55) Chlorobenzene-d5	8.879	117	212527	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.374	95	163992	10.527	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	105.300%
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.499	85	5568	0.370	ppbv	98
3) Chlorodifluoromethane	1.473	51	3017m	0.204	ppbv	
4) Chloromethane	1.531	50	3558	0.632	ppbv	97
5) Vinyl Chloride	1.577	62	330	0.054	ppbv	89
9) Propene	1.486	41	733068	116.578	ppbv #	1
10) Heptane	4.975	43	12441m	0.665	ppbv	
11) Trichlorofluoromethane	1.875	101	3417	0.234	ppbv	90
13) Ethanol	1.722	45	69367	31.371	ppbv	99
15) Acetone	1.842	43	3744141	252.430	ppbv #	54
18) 1,1-Dichloroethene	2.033	96	2201	0.415	ppbv #	91
19) Isopropyl Alcohol	1.891	45	1147126	136.866	ppbv #	36
20) Methylene Chloride	2.072	84	4971676m	1233.576	ppbv	
22) trans-1,2-Dichloroethene	2.341	96	1410	0.233	ppbv #	73
25) Ethyl Acetate	2.855	43	6786931	212.157	ppbv #	53
29) Chloroform	2.868	83	3234	0.162	ppbv	90
30) Cyclohexane	3.862	84	3676m	0.313	ppbv	
34) 2-Butanone	2.561	43	62135m	3.282	ppbv	
35) Carbon Tetrachloride	3.761	117	1787m	0.088	ppbv	
36) Benzene	3.661	78	4655	0.181	ppbv #	94
37) 1,2-Dichloroethane	3.221	62	8886	0.591	ppbv #	96
41) Tetrahydrofuran	3.059	42	26513	2.536	ppbv #	41
52) Tetrachloroethene	8.231	164	426m	0.045	ppbv	
53) Toluene	6.950	91	5465843	179.711	ppbv	91
58) Ethyl Benzene	9.354	91	59522	1.455	ppbv	98
59) m/p-Xylene	9.529	91	211676	6.454	ppbv	98
60) o-Xylene	9.960	91	59779	1.825	ppbv	97
61) Styrene	9.866	104	7297	0.509	ppbv #	77
69) p-Isopropyltoluene	11.924	119	19009	0.307	ppbv	94
72) 4-Ethyltoluene	11.122	105	4522	0.113	ppbv #	55
73) 1,3,5-Trimethylbenzene	11.199	105	4548	0.136	ppbv	90
74) 1,2,4-Trimethylbenzene	11.533	105	21546	0.590	ppbv #	49
79) Naphthalene	13.513	128	3926m	0.121	ppbv	

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

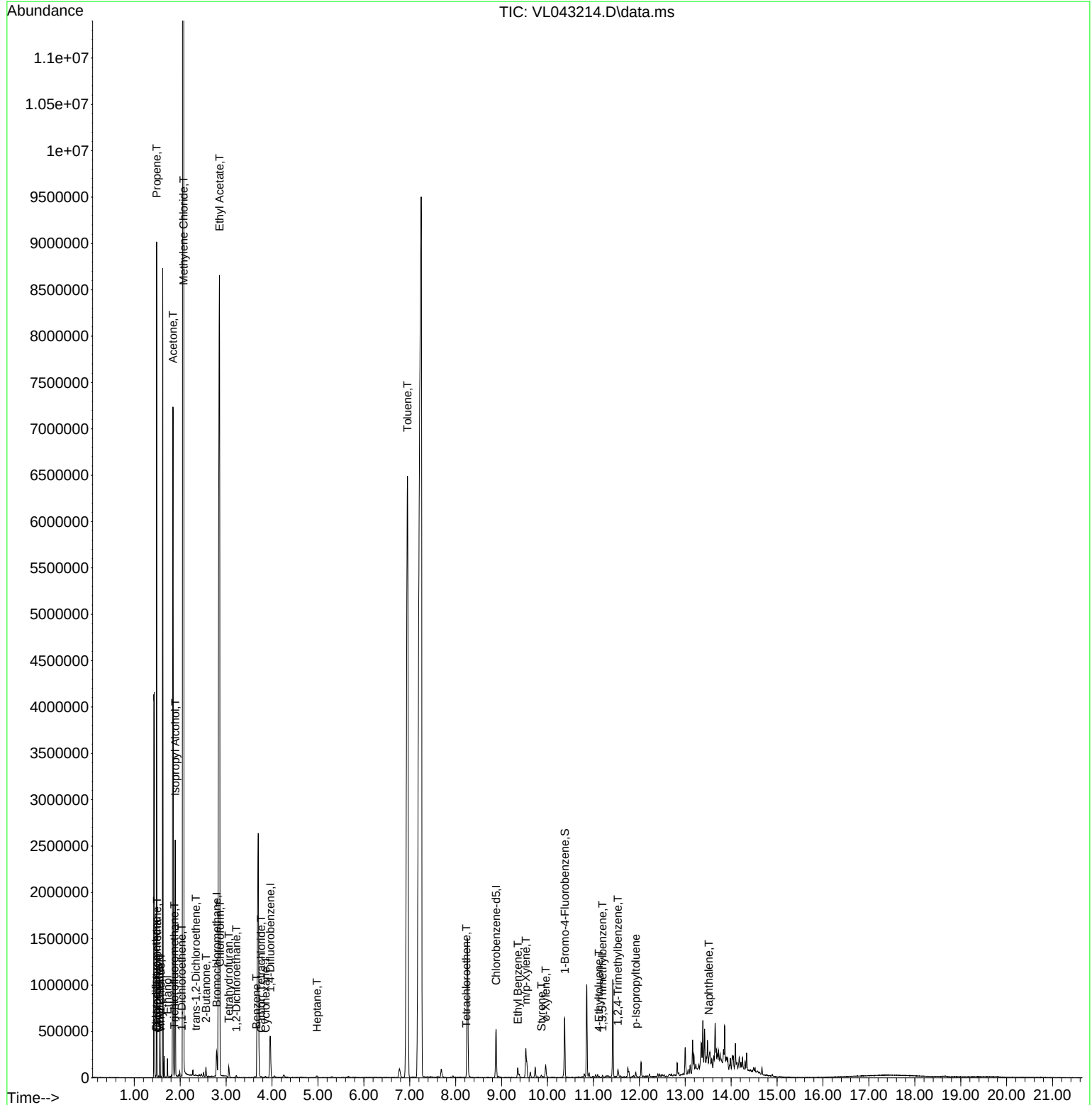
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111825\
Data File : VL043214.D
Acq On : 18 Nov 2025 15:57
Operator : SY/MD
Sample : Q3651-03
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

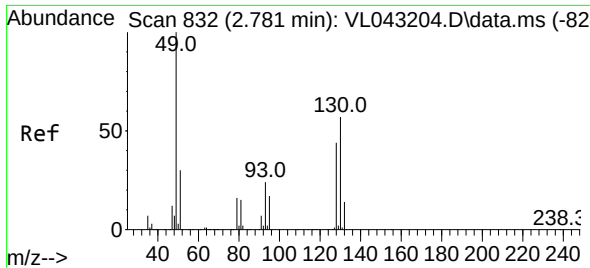
Instrument :
MSVOA_L
ClientSampleId :
IA1

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025

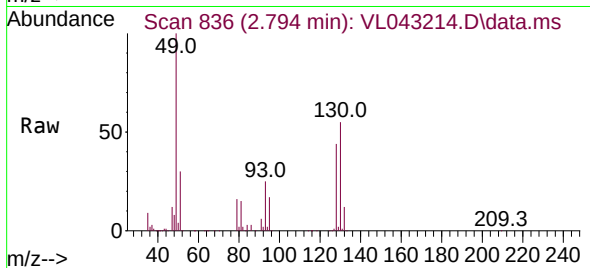
Quant Time: Nov 19 01:35:56 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Wed Nov 19 01:11:25 2025
Response via : Initial Calibration





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.794 min Scan# 832
Delta R.T. 0.013 min
Lab File: VL043214.D
Acq: 18 Nov 2025 15:57

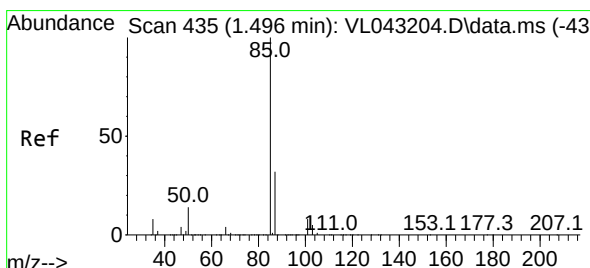
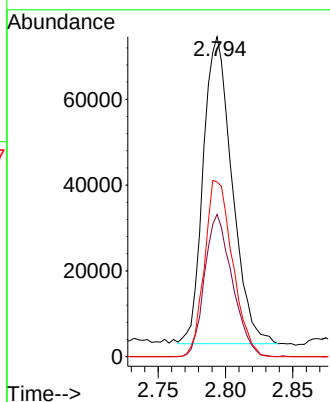
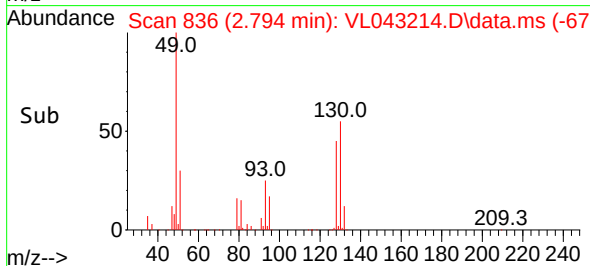
Instrument :
MSVOA_L
ClientSampleId :
IA1



Tgt Ion: 49 Resp: 106759
Ion Ratio Lower Upper
49 100
128 44.2 23.0 69.0
130 55.7 29.9 89.7

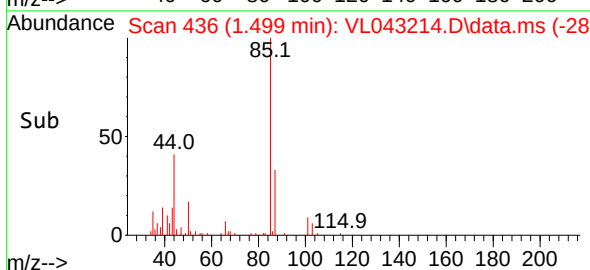
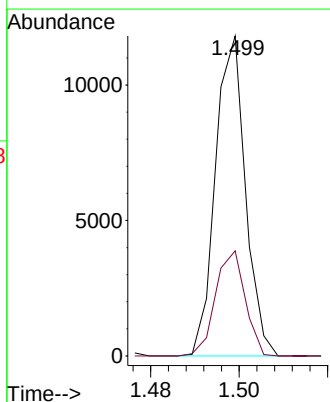
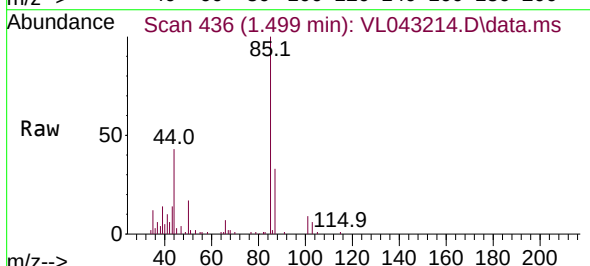
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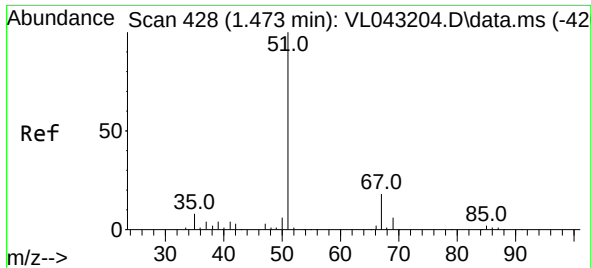
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#2
Dichlorodifluoromethane
Concen: 0.370 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.003 min
Lab File: VL043214.D
Acq: 18 Nov 2025 15:57

Tgt Ion: 85 Resp: 5568
Ion Ratio Lower Upper
85 100
87 32.8 25.4 38.2





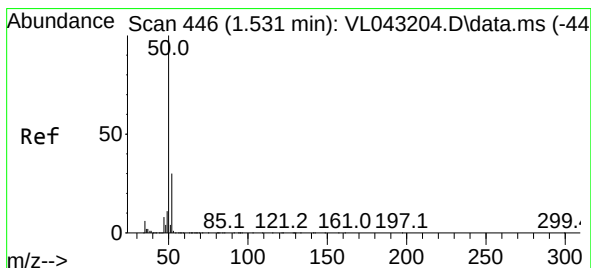
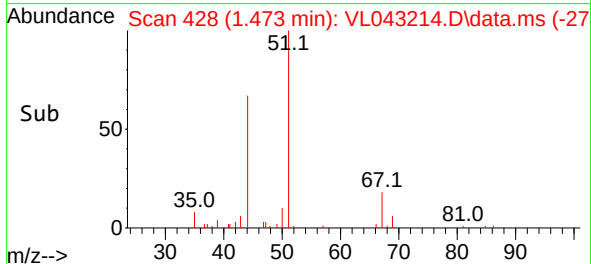
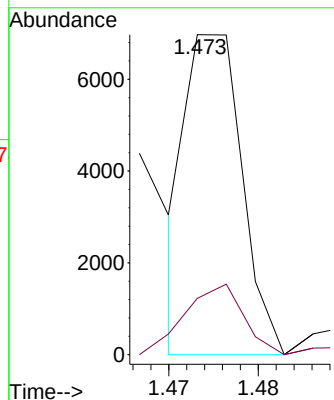
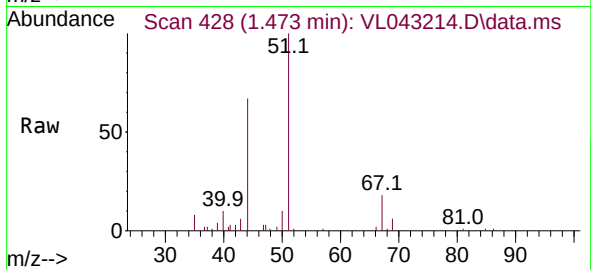
#3
Chlorodifluoromethane
Concen: 0.204 ppbv m
RT: 1.473 min Scan# 428
Delta R.T. 0.000 min
Lab File: VL043214.D
Acq: 18 Nov 2025 15:57

Instrument :
MSVOA_L
ClientSampleId :
IA1

Tgt Ion: 51 Resp: 301
Ion Ratio Lower Upper
51 100
67 28.2 14.9 22.3

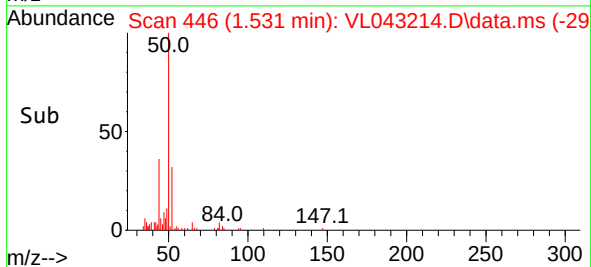
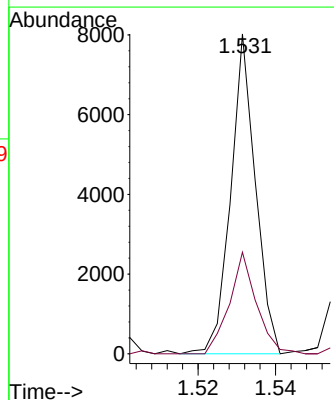
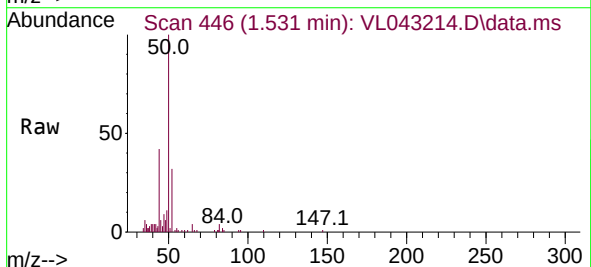
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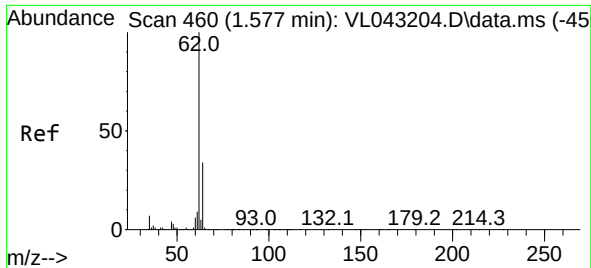
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#4
Chloromethane
Concen: 0.632 ppbv
RT: 1.531 min Scan# 446
Delta R.T. 0.000 min
Lab File: VL043214.D
Acq: 18 Nov 2025 15:57

Tgt Ion: 50 Resp: 3558
Ion Ratio Lower Upper
50 100
52 31.8 24.1 36.1





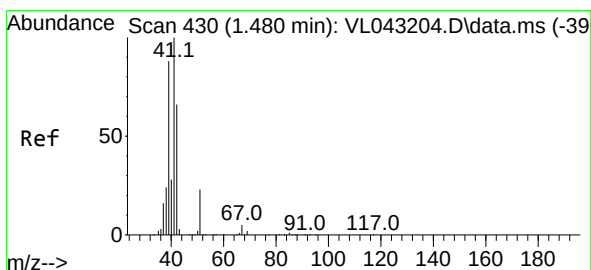
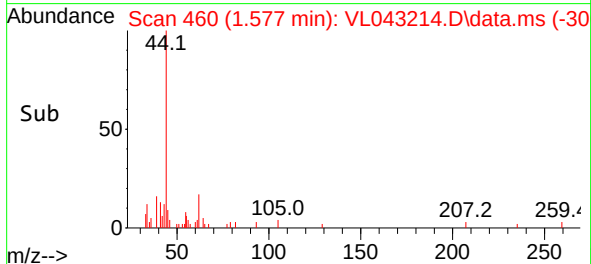
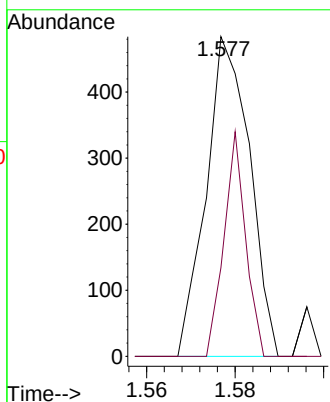
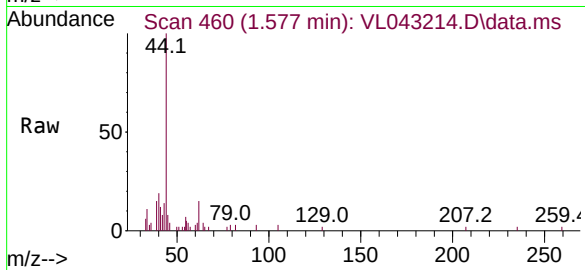
#5
 Vinyl Chloride
 Concen: 0.054 ppbv
 RT: 1.577 min Scan# 460
 Delta R.T. 0.000 min
 Lab File: VL043214.D
 Acq: 18 Nov 2025 15:57

Instrument :
 MSVOA_L
 ClientSampleId :
 IA1

Tgt Ion: 62 Resp: 330
 Ion Ratio Lower Upper
 62 100
 64 27.7 27.3 40.9

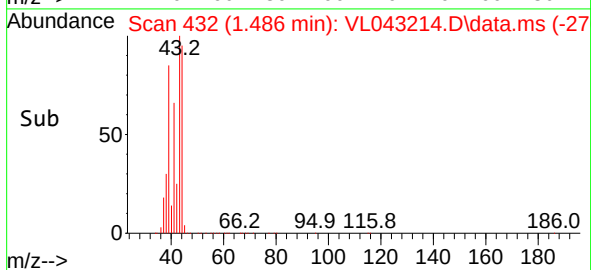
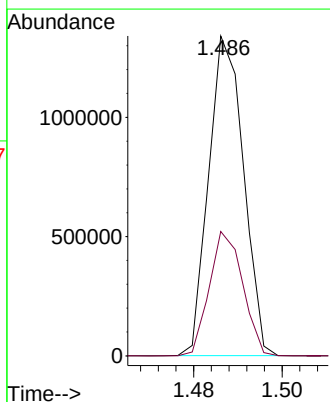
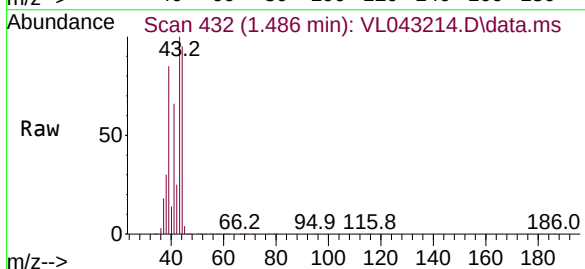
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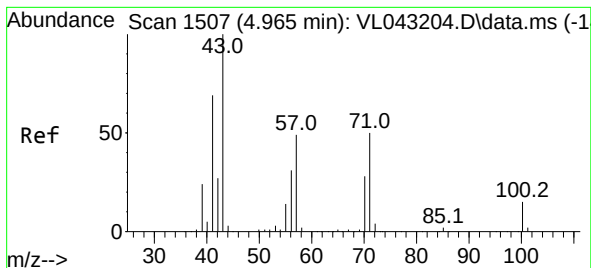
Reviewed By :Semsettin Yesilyurt 11/19/2025
 Supervised By :Mahesh Dadoda 11/19/2025



#9
 Propene
 Concen: 116.578 ppbv
 RT: 1.486 min Scan# 432
 Delta R.T. 0.006 min
 Lab File: VL043214.D
 Acq: 18 Nov 2025 15:57

Tgt Ion: 41 Resp: 733068
 Ion Ratio Lower Upper
 41 100
 42 37.4 3.7 5.5#





#10

Heptane

Concen: 0.665 ppbv m

RT: 4.975 min Scan# 1507

Delta R.T. 0.010 min

Lab File: VL043214.D

Acq: 18 Nov 2025 15:57

Instrument :

MSVOA_L

ClientSampleId :

IA1

Tgt Ion: 43 Resp: 1244

Ion Ratio Lower Upper

43 100

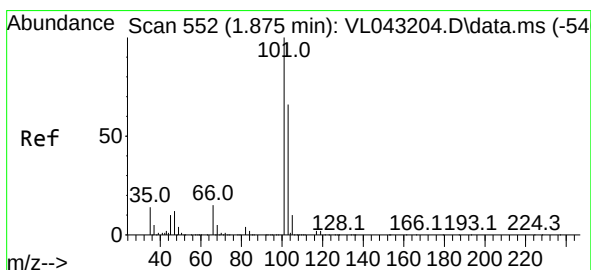
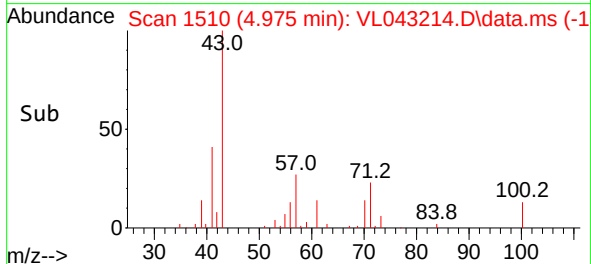
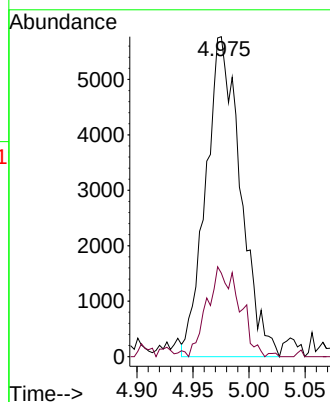
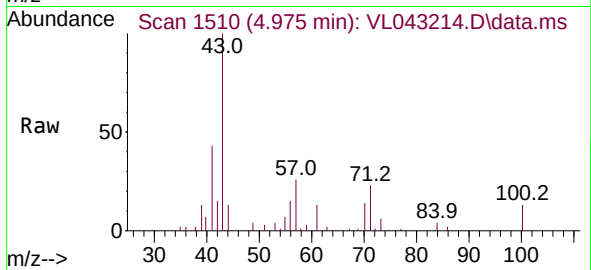
57 0.0 39.7 59.5

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 11/19/2025

Supervised By :Mahesh Dadoda 11/19/2025



#11

Trichlorofluoromethane

Concen: 0.234 ppbv

RT: 1.875 min Scan# 552

Delta R.T. 0.000 min

Lab File: VL043214.D

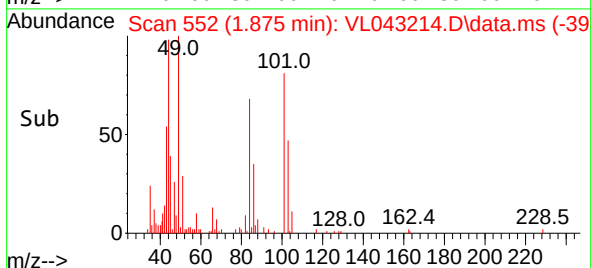
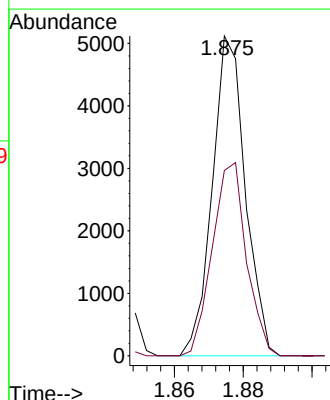
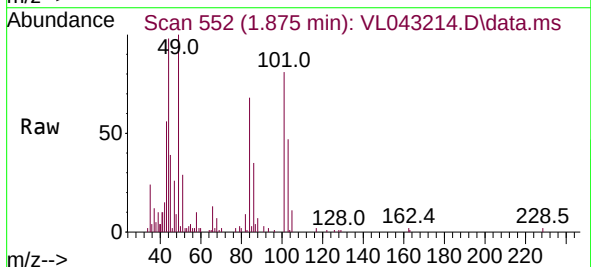
Acq: 18 Nov 2025 15:57

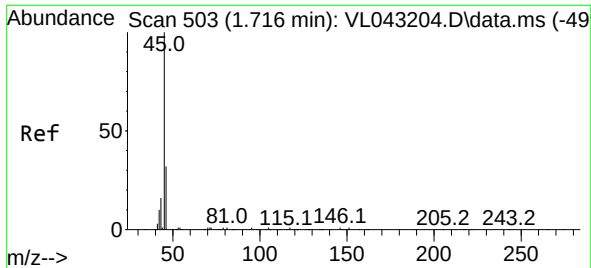
Tgt Ion:101 Resp: 3417

Ion Ratio Lower Upper

101 100

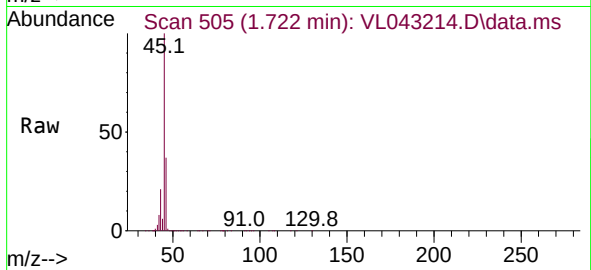
103 57.9 52.6 79.0





#13
Ethanol
Concen: 31.371 ppbv
RT: 1.722 min Scan# 503
Delta R.T. 0.006 min
Lab File: VL043214.D
Acq: 18 Nov 2025 15:57

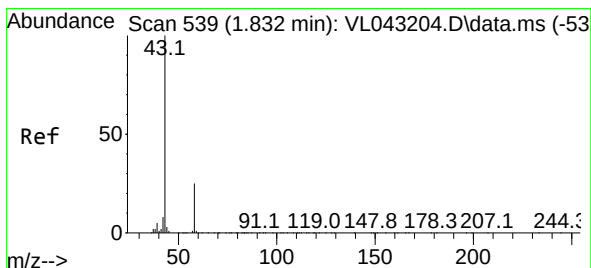
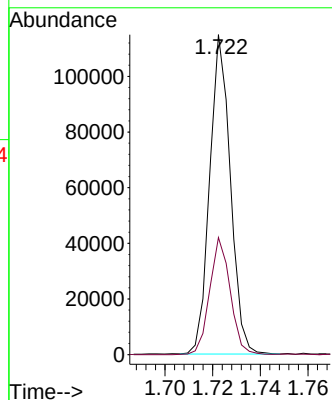
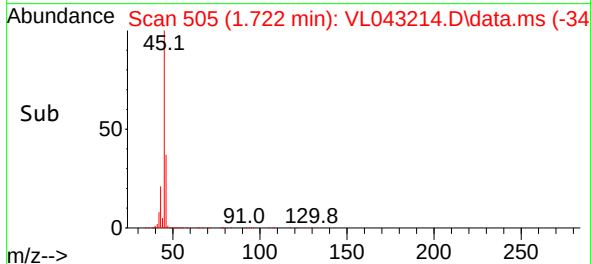
Instrument :
MSVOA_L
ClientSampleId :
IA1



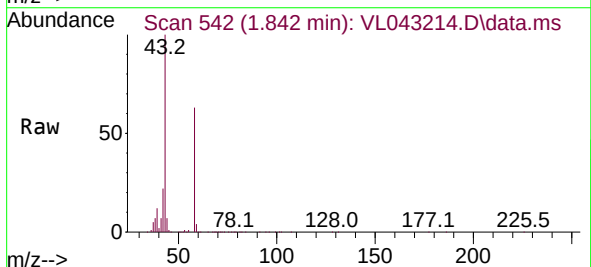
Tgt Ion: 45 Resp: 69362
Ion Ratio Lower Upper
45 100
46 36.6 15.0 59.8

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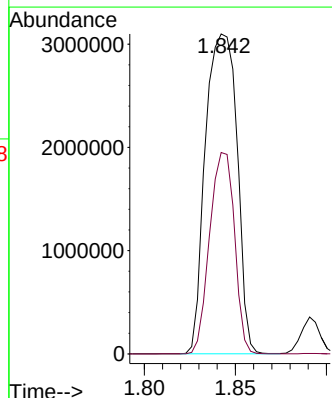
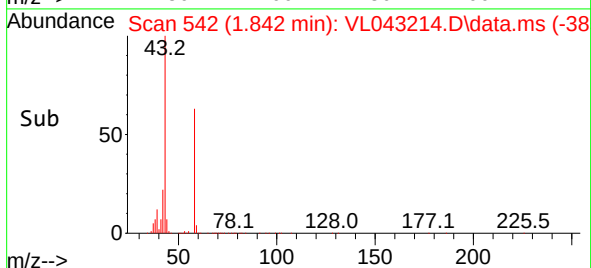
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025

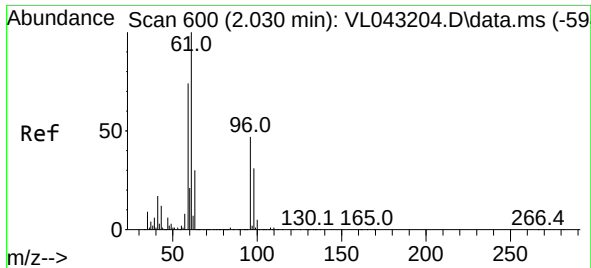


#15
Acetone
Concen: 252.430 ppbv
RT: 1.842 min Scan# 542
Delta R.T. 0.010 min
Lab File: VL043214.D
Acq: 18 Nov 2025 15:57



Tgt Ion: 43 Resp: 3744141
Ion Ratio Lower Upper
43 100
58 49.5 20.7 31.1#





#18

1,1-Dichloroethene

Concen: 0.415 ppbv

RT: 2.033 min Scan# 600

Delta R.T. 0.003 min

Lab File: VL043214.D

Acq: 18 Nov 2025 15:57

Instrument :

MSVOA_L

ClientSampleId :

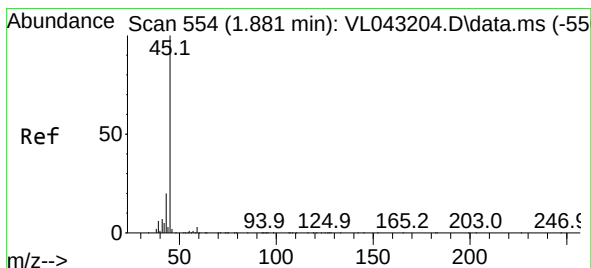
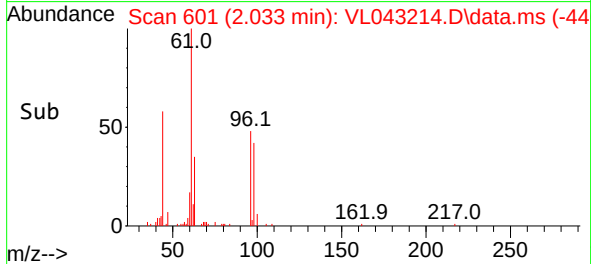
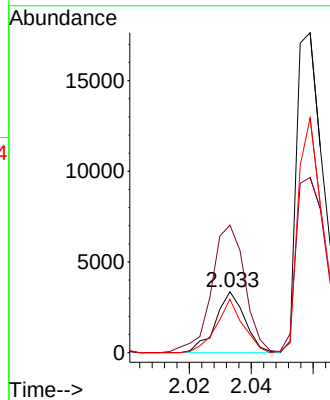
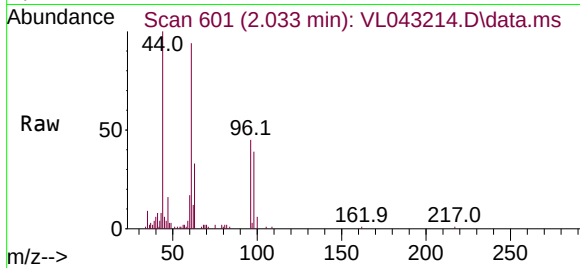
IA1

Tgt Ion: 96 Resp: 2201
 Ion Ratio Lower Upper
 96 100
 61 207.4 170.6 255.8
 98 87.5 52.2 78.4

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Reviewed By :Semsettin Yesilyurt 11/19/2025
 Supervised By :Mahesh Dadoda 11/19/2025



#19

Isopropyl Alcohol

Concen: 136.866 ppbv

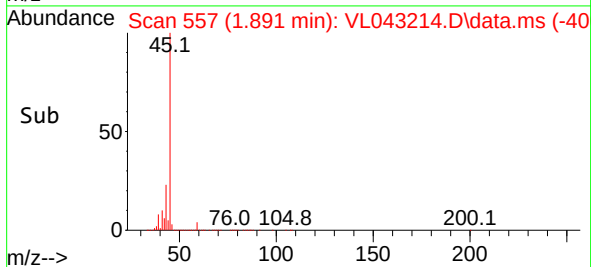
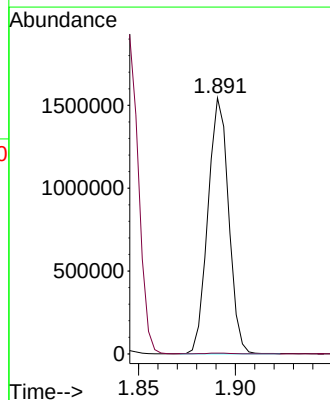
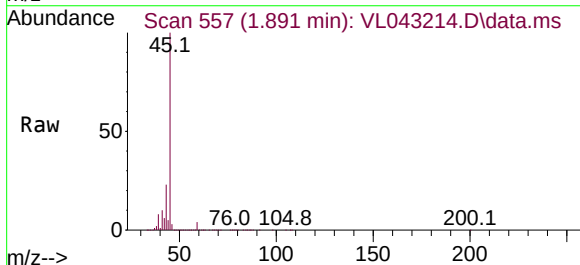
RT: 1.891 min Scan# 557

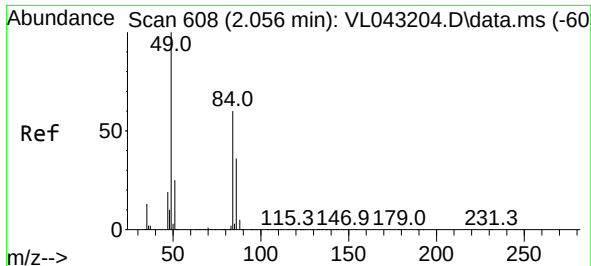
Delta R.T. 0.010 min

Lab File: VL043214.D

Acq: 18 Nov 2025 15:57

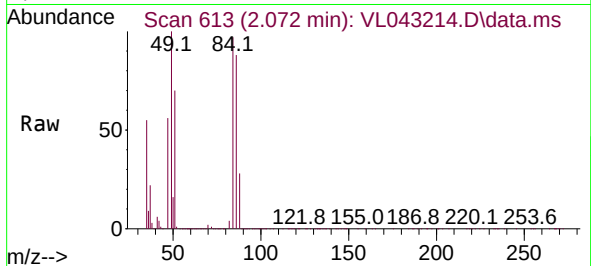
Tgt Ion: 45 Resp: 1147126
 Ion Ratio Lower Upper
 45 100
 58 0.0 31.3 46.9





#20
Methylene Chloride
Concen: 1233.576 ppbv m
RT: 2.072 min Scan# 613
Delta R.T. 0.016 min
Lab File: VL043214.D
Acq: 18 Nov 2025 15:57

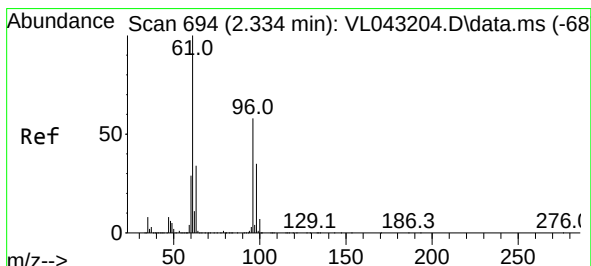
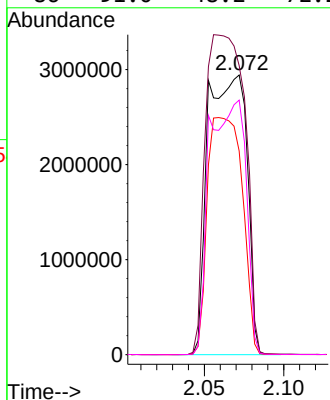
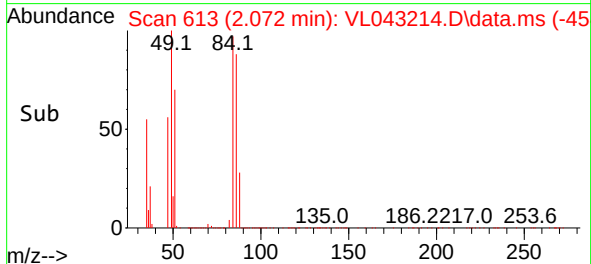
Instrument :
MSVOA_L
ClientSampleId :
IA1



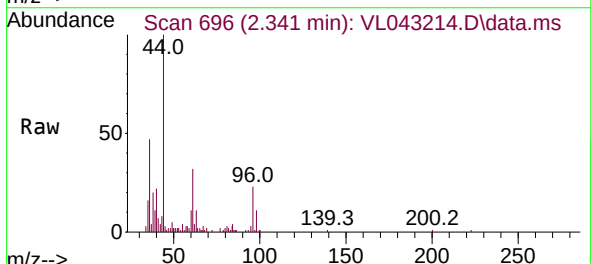
Tgt Ion: 84 Resp: 4971676
Ion Ratio Lower Upper
84 100
49 103.4 132.9 199.3#
51 72.8 34.8 52.2#
86 91.0 48.2 72.2#

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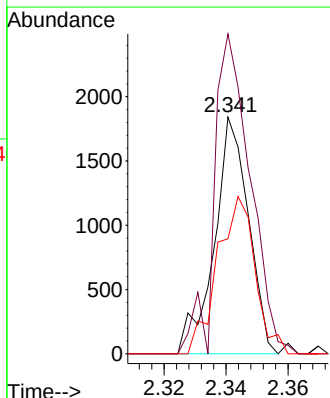
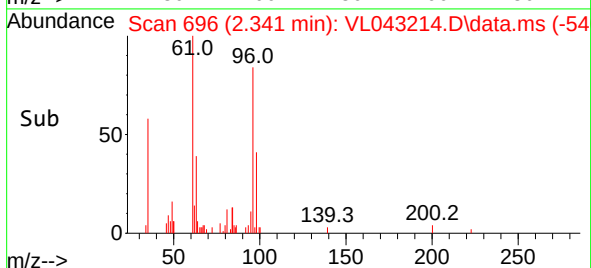
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025

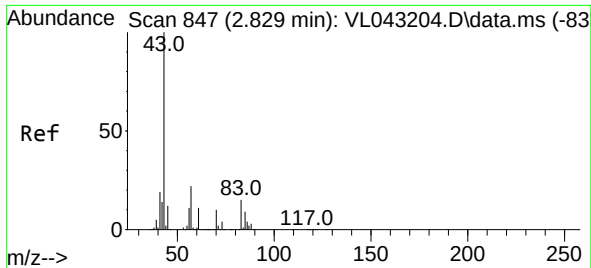


#22
trans-1,2-Dichloroethene
Concen: 0.233 ppbv
RT: 2.341 min Scan# 696
Delta R.T. 0.006 min
Lab File: VL043214.D
Acq: 18 Nov 2025 15:57



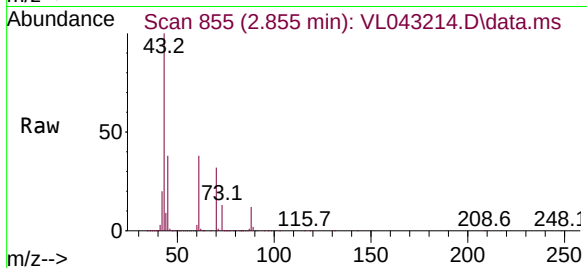
Tgt Ion: 96 Resp: 1410
Ion Ratio Lower Upper
96 100
61 131.8 139.0 208.6#
98 48.6 49.4 74.2#





#25
Ethyl Acetate
Concen: 212.157 ppbv
RT: 2.855 min Scan# 855
Delta R.T. 0.026 min
Lab File: VL043214.D
Acq: 18 Nov 2025 15:57

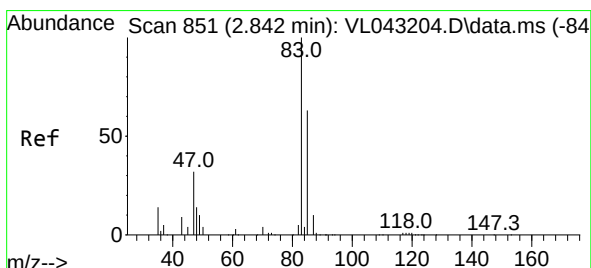
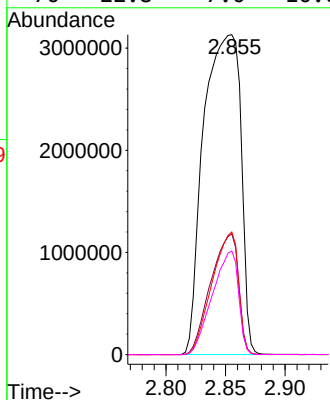
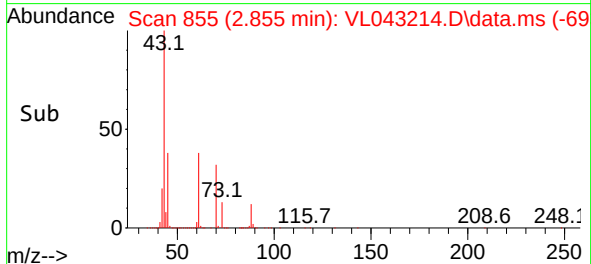
Instrument :
MSVOA_L
ClientSampleId :
IA1



Tgt Ion: 43 Resp: 678693
Ion Ratio Lower Upper
43 100
45 28.2 8.1 12.1
61 27.3 7.0 10.4
70 22.8 7.0 10.6

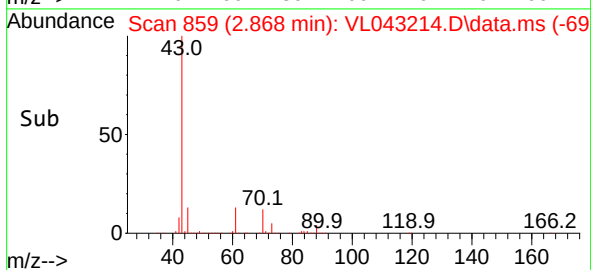
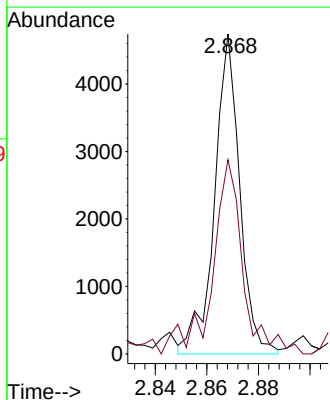
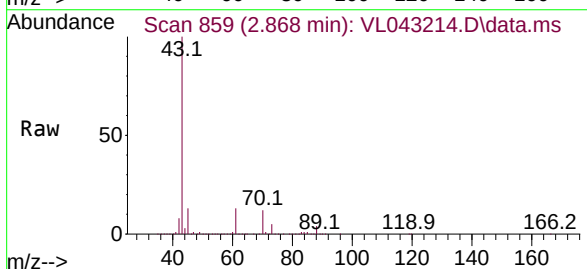
Manual Integrations
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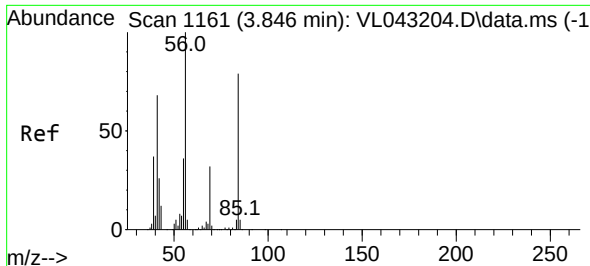
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#29
Chloroform
Concen: 0.162 ppbv
RT: 2.868 min Scan# 859
Delta R.T. 0.026 min
Lab File: VL043214.D
Acq: 18 Nov 2025 15:57

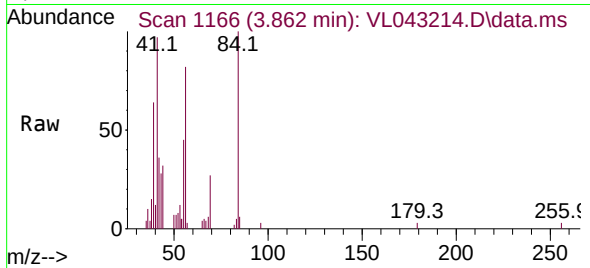
Tgt Ion: 83 Resp: 3234
Ion Ratio Lower Upper
83 100
85 55.3 50.5 75.7





#30
Cyclohexane
Concen: 0.313 ppbv m
RT: 3.862 min Scan# 1166
Delta R.T. 0.016 min
Lab File: VL043214.D
Acq: 18 Nov 2025 15:57

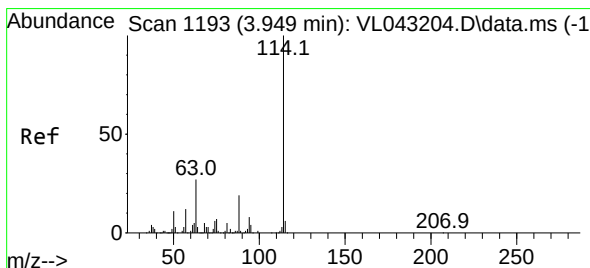
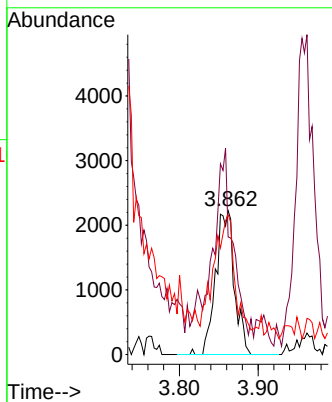
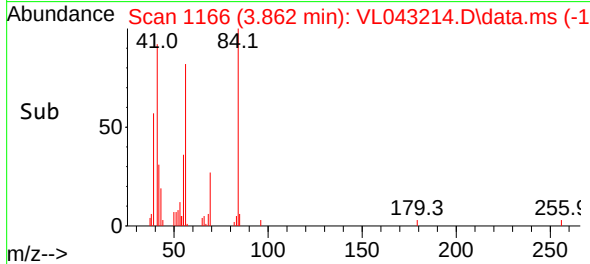
Instrument :
MSVOA_L
ClientSampleId :
IA1



Tgt Ion: 84 Resp: 3676
Ion Ratio Lower Upper
84 100
56 0.0 104.7 157.1
41 0.0 69.0 103.6

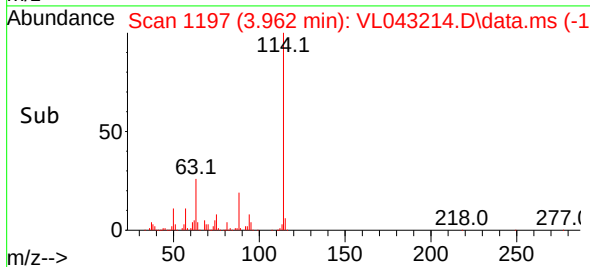
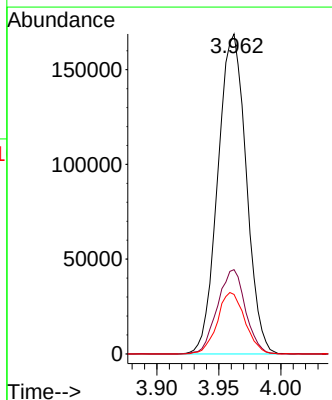
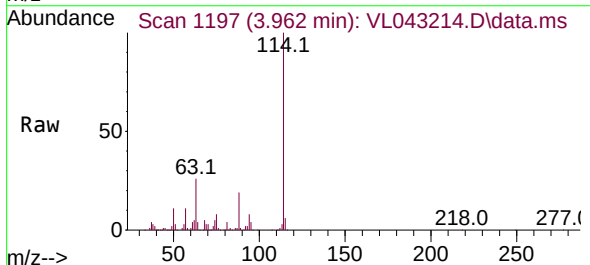
Manual Integrations
APPROVED

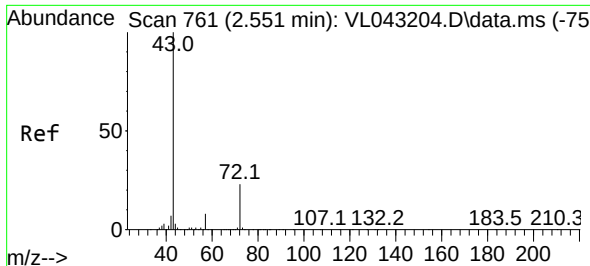
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.962 min Scan# 1197
Delta R.T. 0.013 min
Lab File: VL043214.D
Acq: 18 Nov 2025 15:57

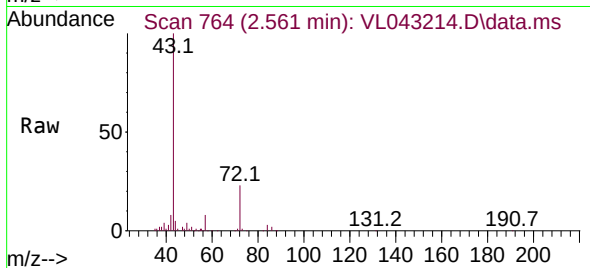
Tgt Ion:114 Resp: 268208
Ion Ratio Lower Upper
114 100
63 26.0 21.0 31.6
88 18.7 14.9 22.3





#34
2-Butanone
Concen: 3.282 ppbv m
RT: 2.561 min Scan# 761
Delta R.T. 0.010 min
Lab File: VL043214.D
Acq: 18 Nov 2025 15:57

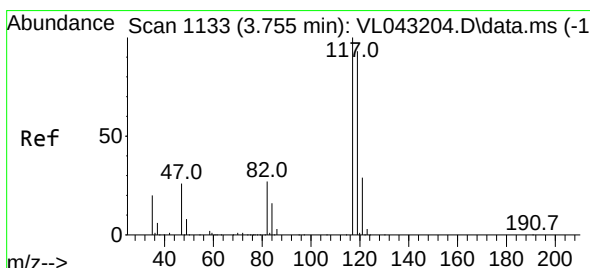
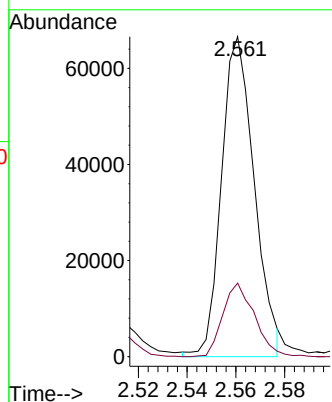
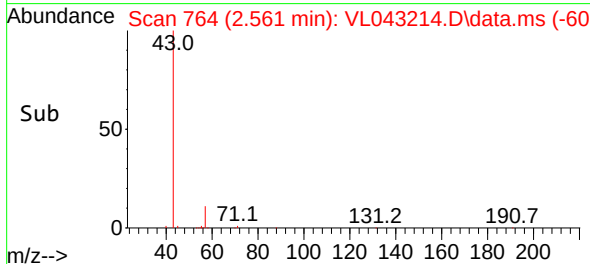
Instrument :
MSVOA_L
ClientSampleId :
IA1



Tgt Ion: 43 Resp: 62135
Ion Ratio Lower Upper
43 100
72 2.1 18.1 27.1

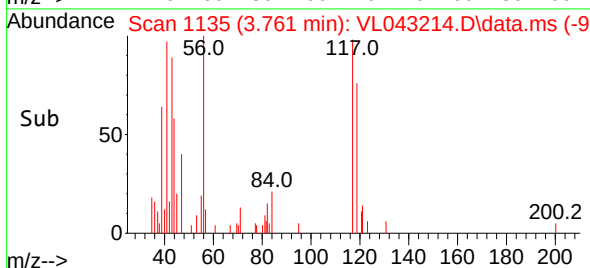
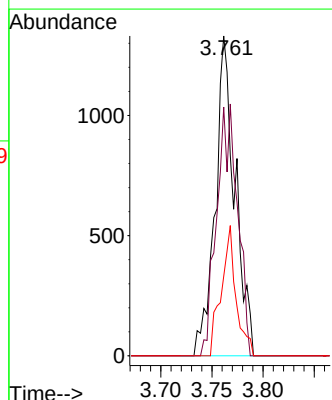
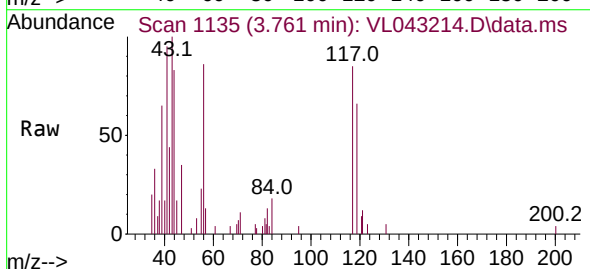
Manual Integrations
APPROVED

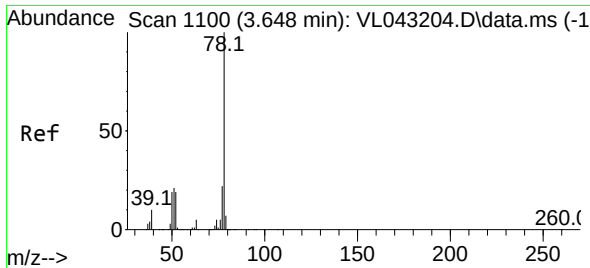
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#35
Carbon Tetrachloride
Concen: 0.088 ppbv m
RT: 3.761 min Scan# 1135
Delta R.T. 0.006 min
Lab File: VL043214.D
Acq: 18 Nov 2025 15:57

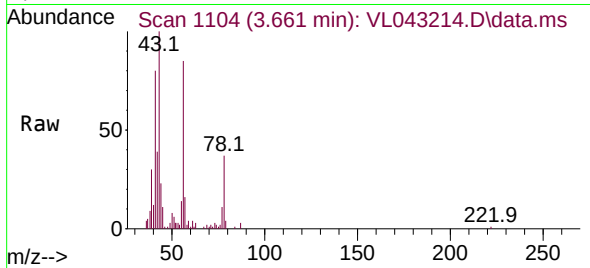
Tgt Ion:117 Resp: 1787
Ion Ratio Lower Upper
117 100
119 77.8 74.6 112.0
121 13.9 23.2 34.8





#36
Benzene
Concen: 0.181 ppbv
RT: 3.661 min Scan# 1104
Delta R.T. 0.013 min
Lab File: VL043214.D
Acq: 18 Nov 2025 15:57

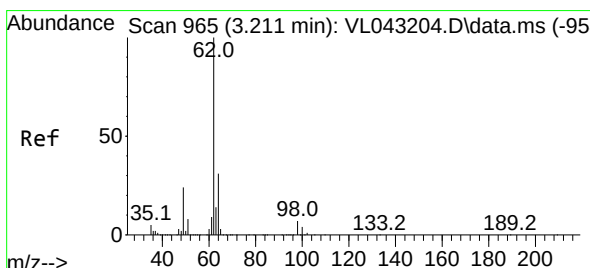
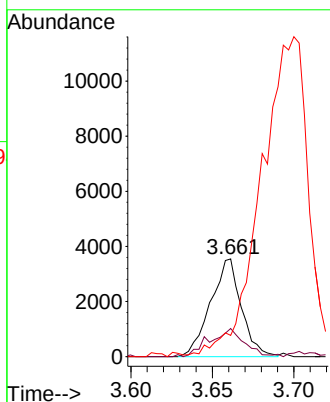
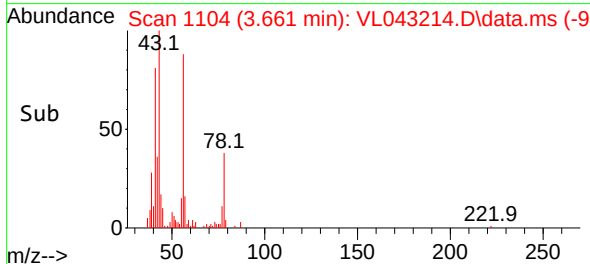
Instrument :
MSVOA_L
ClientSampleId :
1A1



Tgt Ion: 78 Resp: 465
Ion Ratio Lower Upper
78 100
77 26.8 17.5 26.3
50 18.4 15.5 23.3

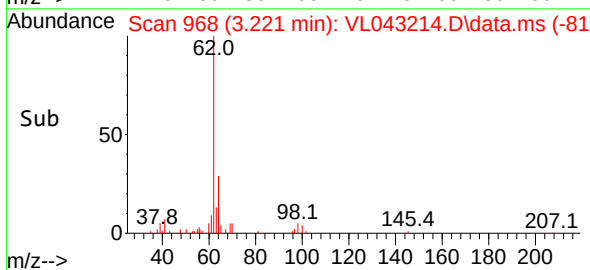
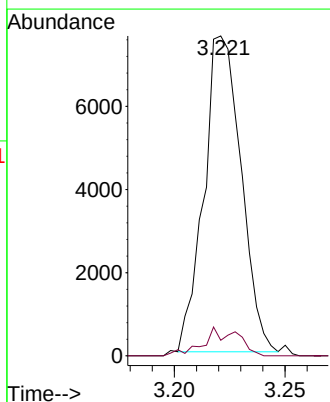
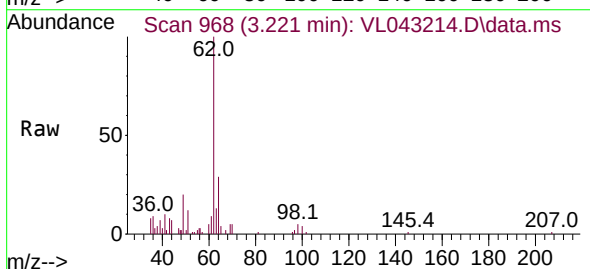
Manual Integrations
APPROVED

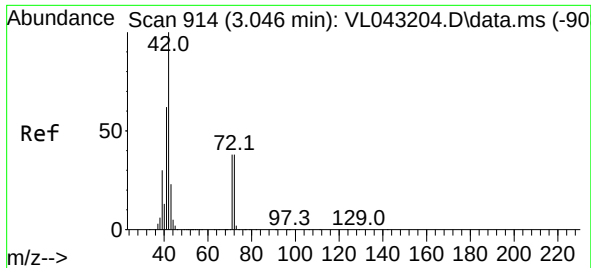
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#37
1,2-Dichloroethane
Concen: 0.591 ppbv
RT: 3.221 min Scan# 968
Delta R.T. 0.010 min
Lab File: VL043214.D
Acq: 18 Nov 2025 15:57

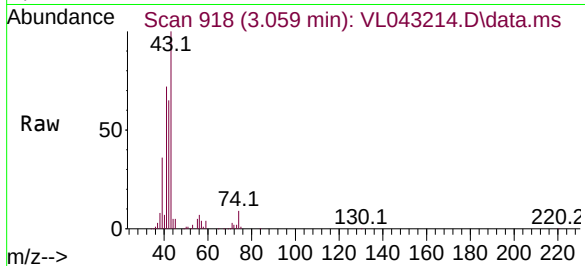
Tgt Ion: 62 Resp: 8886
Ion Ratio Lower Upper
62 100
98 8.3 5.5 8.3





#41
Tetrahydrofuran
Concen: 2.536 ppbv
RT: 3.059 min Scan# 914
Delta R.T. 0.013 min
Lab File: VL043214.D
Acq: 18 Nov 2025 15:57

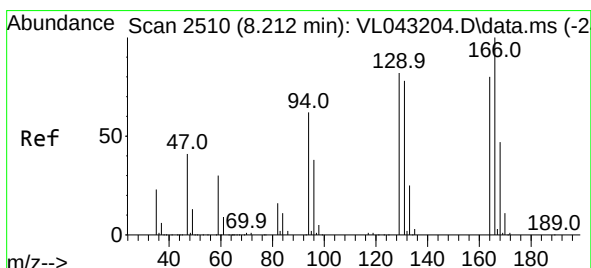
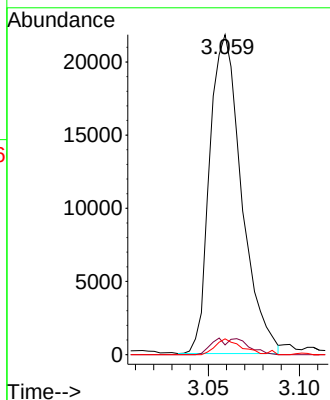
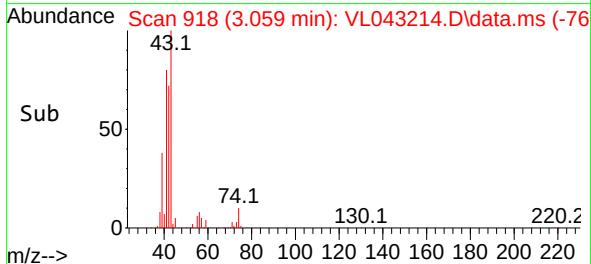
Instrument :
MSVOA_L
ClientSampleId :
IA1



Tgt Ion: 42 Resp: 26513
Ion Ratio Lower Upper
42 100
72 5.6 30.6 46.0#
71 0.0 30.5 45.7#

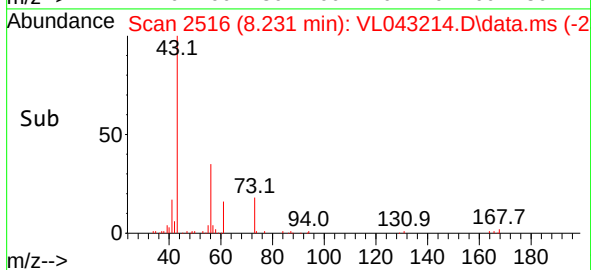
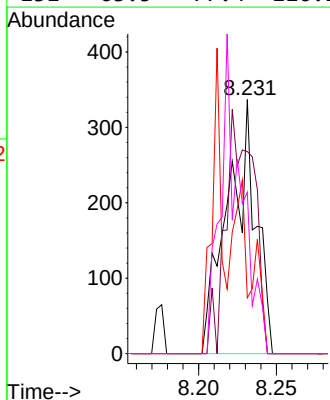
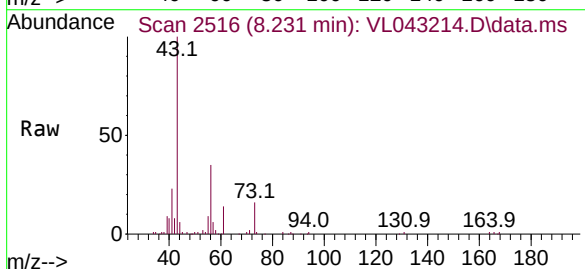
Manual Integrations
APPROVED

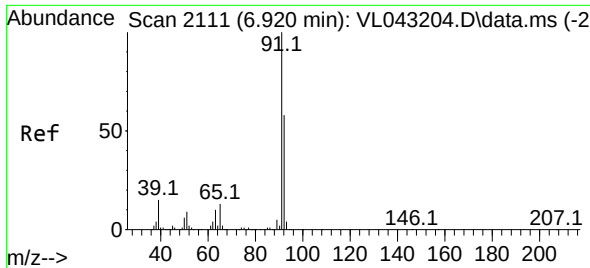
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#52
Tetrachloroethene
Concen: 0.045 ppbv m
RT: 8.231 min Scan# 2516
Delta R.T. 0.019 min
Lab File: VL043214.D
Acq: 18 Nov 2025 15:57

Tgt Ion:164 Resp: 426
Ion Ratio Lower Upper
164 100
166 79.5 99.4 149.2#
129 22.0 81.8 122.8#
131 63.5 77.4 116.2#





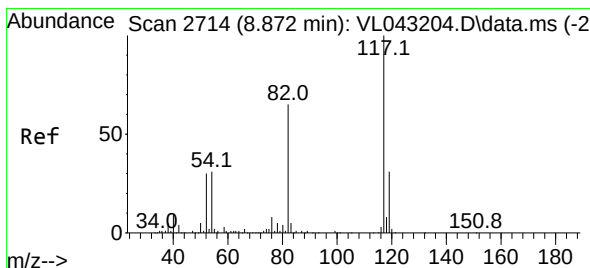
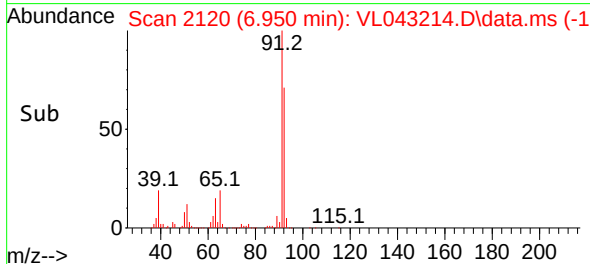
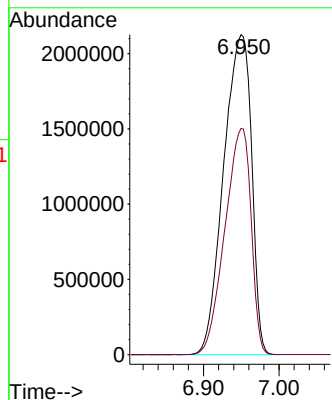
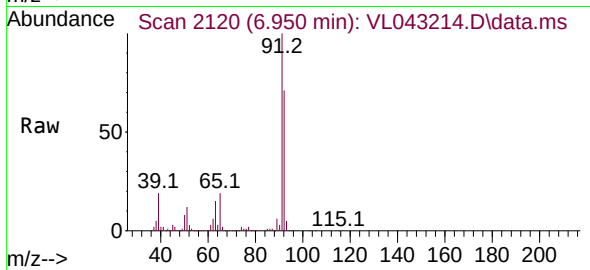
#53
Toluene
Concen: 179.711 ppbv
RT: 6.950 min Scan# 2111
Delta R.T. 0.029 min
Lab File: VL043214.D
Acq: 18 Nov 2025 15:57

Instrument :
MSVOA_L
ClientSampleId :
IA1

Tgt Ion: 91 Resp: 546584
Ion Ratio Lower Upper
91 100
92 66.1 47.4 71.0

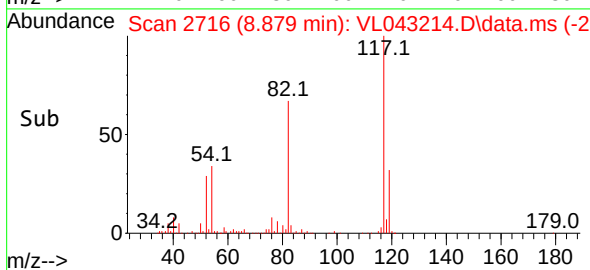
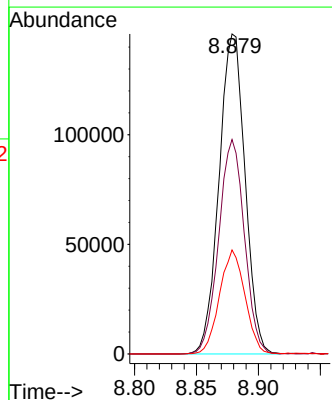
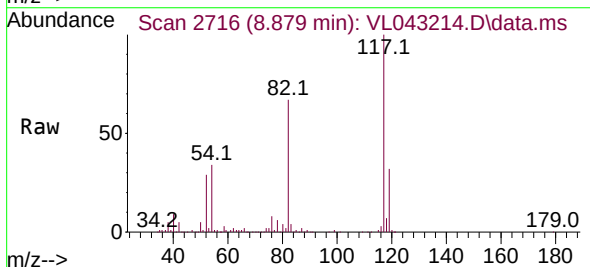
Manual Integrations
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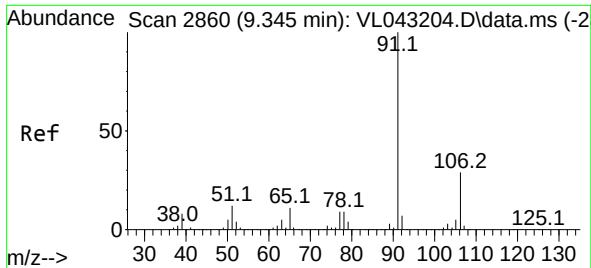
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.879 min Scan# 2716
Delta R.T. 0.006 min
Lab File: VL043214.D
Acq: 18 Nov 2025 15:57

Tgt Ion:117 Resp: 212527
Ion Ratio Lower Upper
117 100
82 66.1 56.1 84.1
119 32.0 25.0 37.6





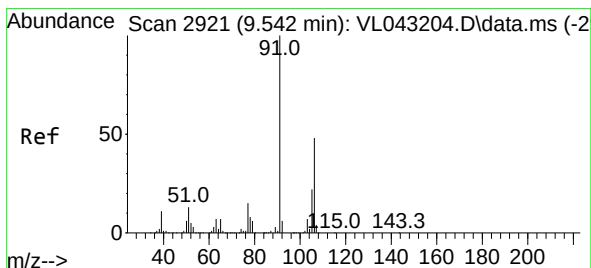
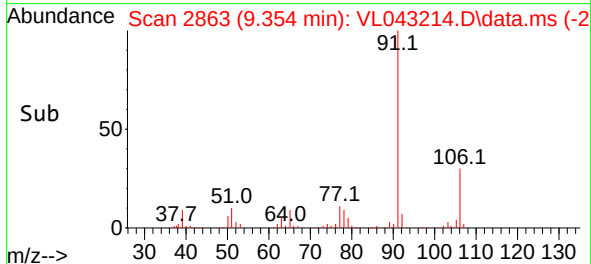
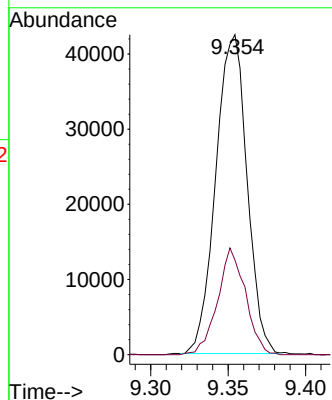
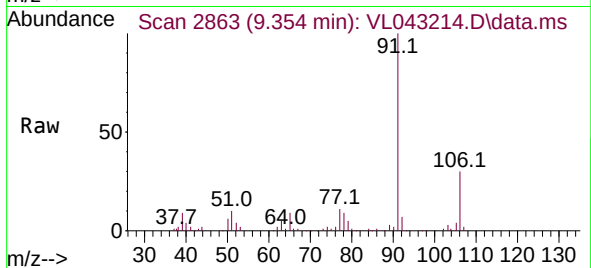
#58
Ethyl Benzene
Concen: 1.455 ppbv
RT: 9.354 min Scan# 2863
Delta R.T. 0.010 min
Lab File: VL043214.D
Acq: 18 Nov 2025 15:57

Instrument :
MSVOA_L
ClientSampleId :
IA1

Tgt Ion: 91 Resp: 5952
Ion Ratio Lower Upper
91 100
106 29.7 22.8 34.2

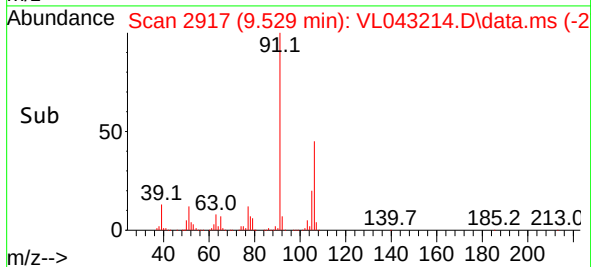
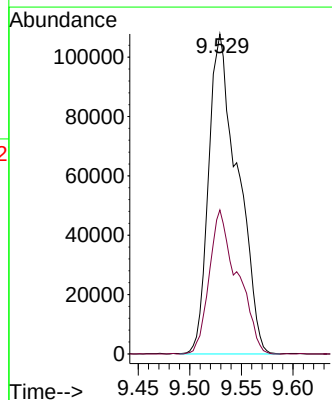
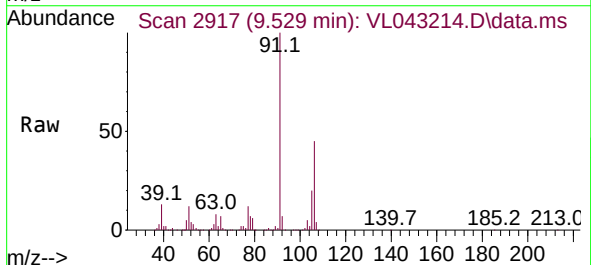
Manual Integrations
APPROVED

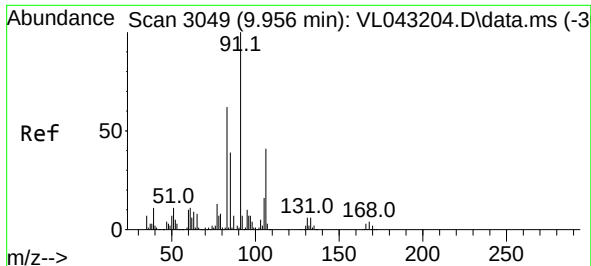
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#59
m/p-Xylene
Concen: 6.454 ppbv
RT: 9.529 min Scan# 2917
Delta R.T. -0.013 min
Lab File: VL043214.D
Acq: 18 Nov 2025 15:57

Tgt Ion: 91 Resp: 211676
Ion Ratio Lower Upper
91 100
106 43.7 36.1 54.1





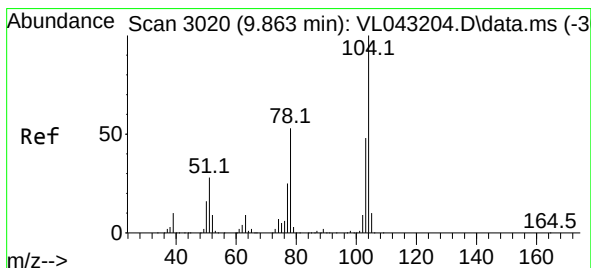
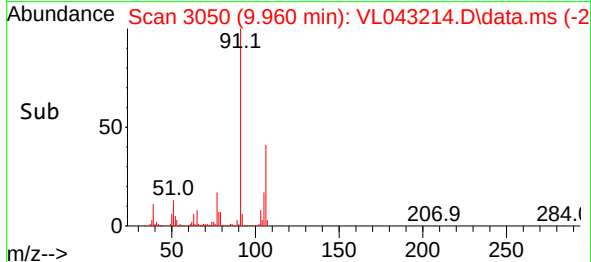
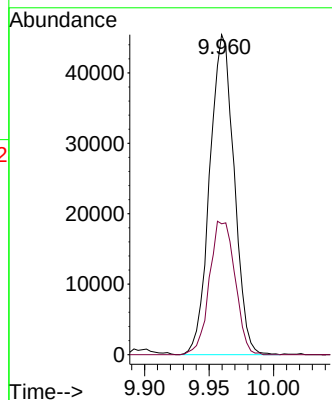
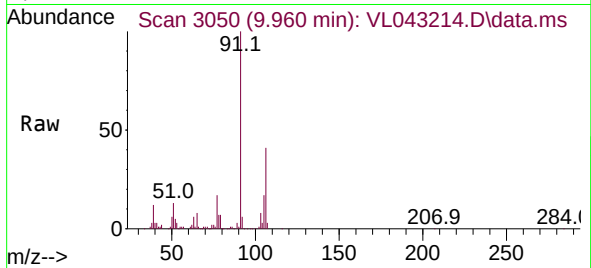
#60
o-Xylene
Concen: 1.825 ppbv
RT: 9.960 min Scan# 3049
Delta R.T. 0.003 min
Lab File: VL043214.D
Acq: 18 Nov 2025 15:57

Instrument :
MSVOA_L
ClientSampleId :
IA1

Tgt Ion: 91 Resp: 59779
Ion Ratio Lower Upper
91 100
106 43.6 20.9 62.8

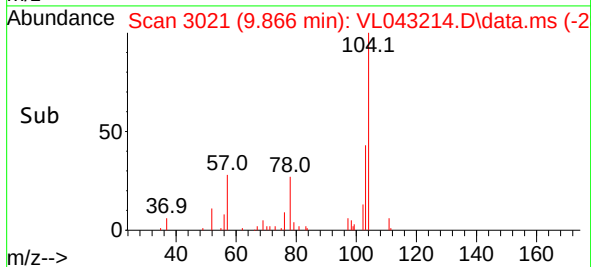
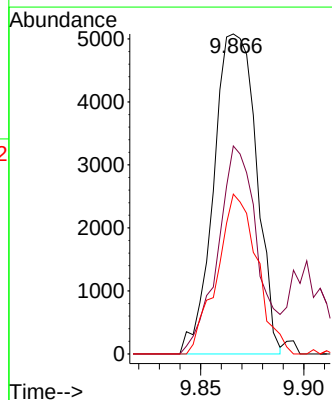
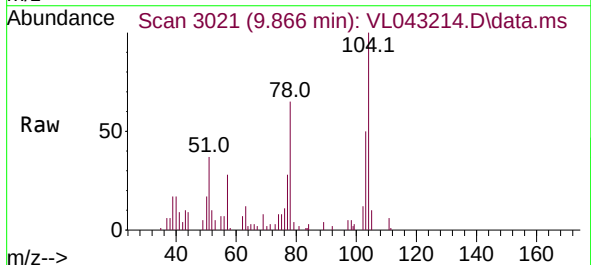
Manual Integrations
APPROVED

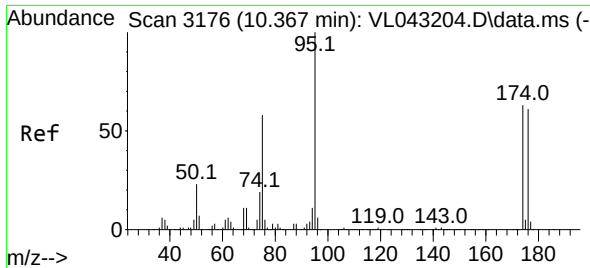
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#61
Styrene
Concen: 0.509 ppbv
RT: 9.866 min Scan# 3021
Delta R.T. 0.003 min
Lab File: VL043214.D
Acq: 18 Nov 2025 15:57

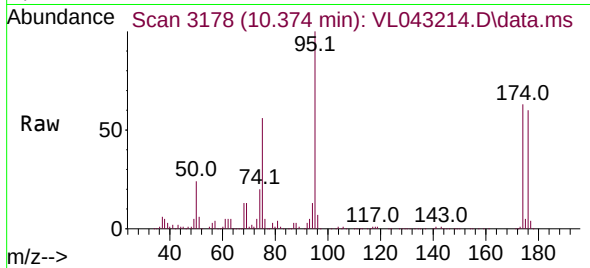
Tgt Ion:104 Resp: 7297
Ion Ratio Lower Upper
104 100
78 83.0 42.1 63.1#
103 47.1 37.2 55.8





#68
1-Bromo-4-Fluorobenzene
Concen: 10.527 ppbv
RT: 10.374 min Scan# 3176
Delta R.T. 0.007 min
Lab File: VL043214.D
Acq: 18 Nov 2025 15:57

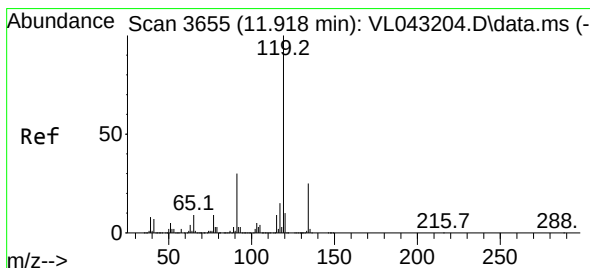
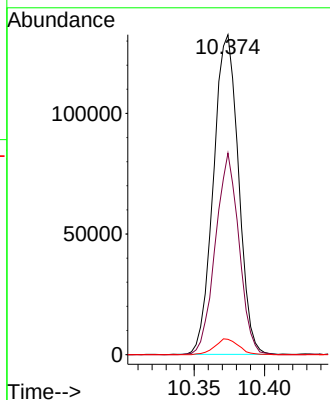
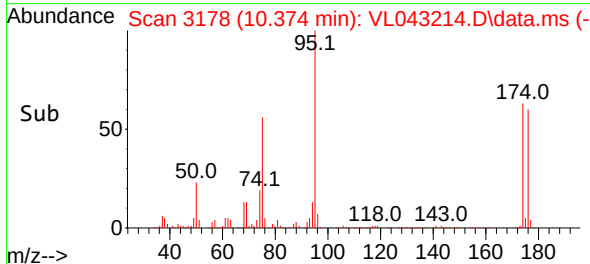
Instrument :
MSVOA_L
ClientSampleId :
IA1



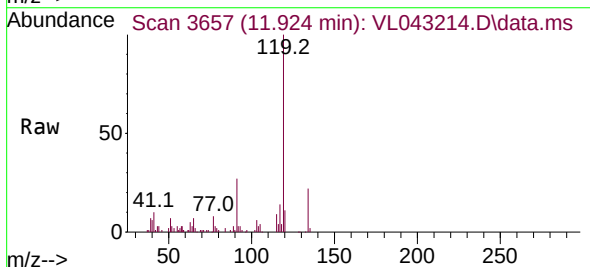
Tgt Ion: 95 Resp: 163992
Ion Ratio Lower Upper
95 100
174 59.3 50.2 75.2
175 4.7 4.1 6.1

Manual Integrations
APPROVED

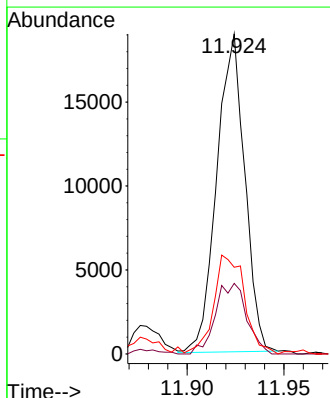
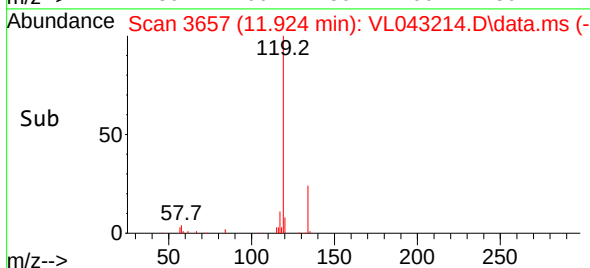
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025

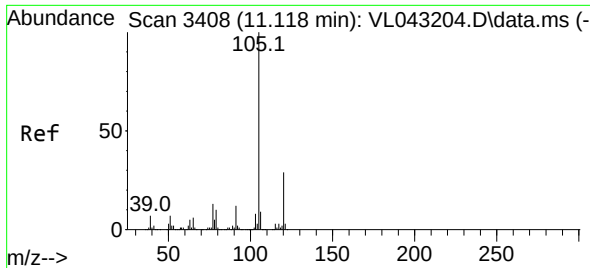


#69
p-Isopropyltoluene
Concen: 0.307 ppbv
RT: 11.924 min Scan# 3657
Delta R.T. 0.006 min
Lab File: VL043214.D
Acq: 18 Nov 2025 15:57



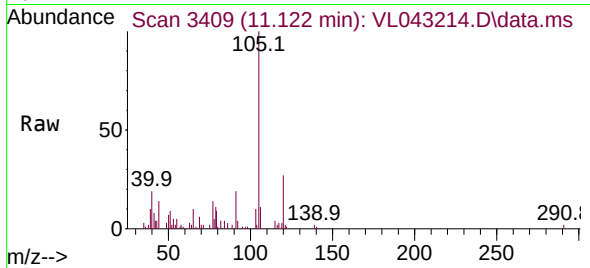
Tgt Ion:119 Resp: 19009
Ion Ratio Lower Upper
119 100
134 26.0 20.2 30.2
91 35.3 23.8 35.8





#72
4-Ethyltoluene
Concen: 0.113 ppbv
RT: 11.122 min Scan# 3409
Delta R.T. 0.003 min
Lab File: VL043214.D
Acq: 18 Nov 2025 15:57

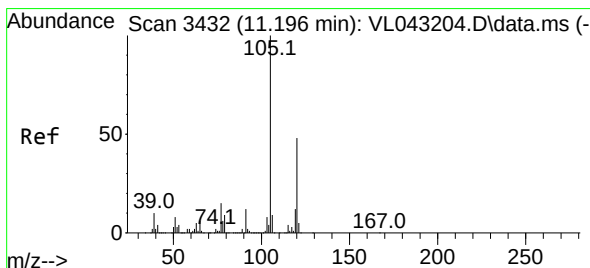
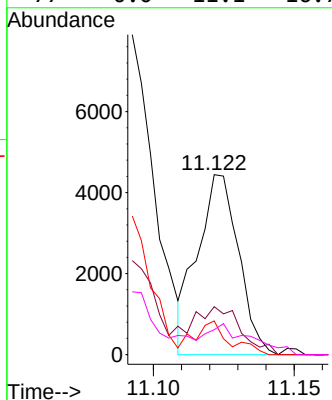
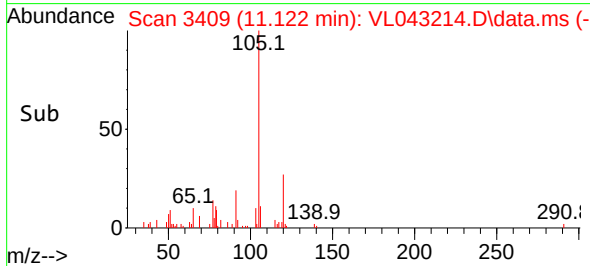
Instrument :
MSVOA_L
ClientSampleId :
IA1



Tgt Ion:105 Resp: 4522
Ion Ratio Lower Upper
105 100
120 0.0 23.8 35.8
91 0.0 10.3 15.5
77 0.0 11.1 16.7

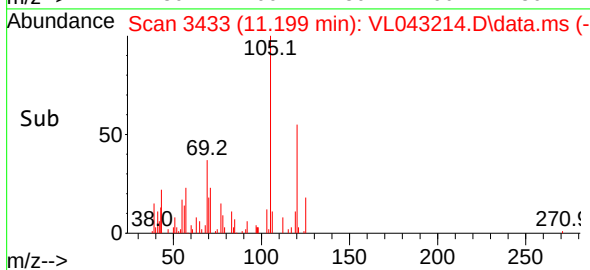
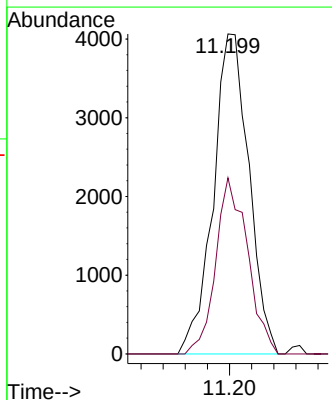
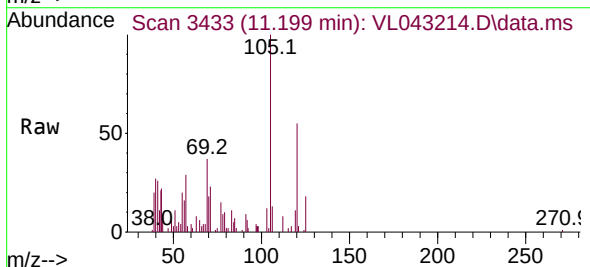
Manual Integrations
APPROVED

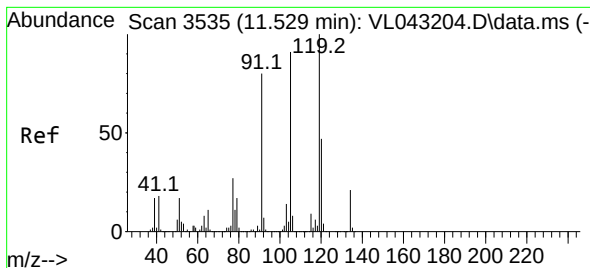
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#73
1,3,5-Trimethylbenzene
Concen: 0.136 ppbv
RT: 11.199 min Scan# 3433
Delta R.T. 0.003 min
Lab File: VL043214.D
Acq: 18 Nov 2025 15:57

Tgt Ion:105 Resp: 4548
Ion Ratio Lower Upper
105 100
120 55.0 38.6 57.8





#74

1,2,4-Trimethylbenzene

Concen: 0.590 ppbv

RT: 11.533 min Scan# 3535

Delta R.T. 0.003 min

Lab File: VL043214.D

Acq: 18 Nov 2025 15:57

Instrument :

MSVOA_L

ClientSampleId :

1A1

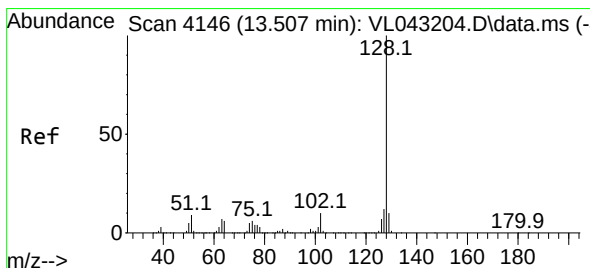
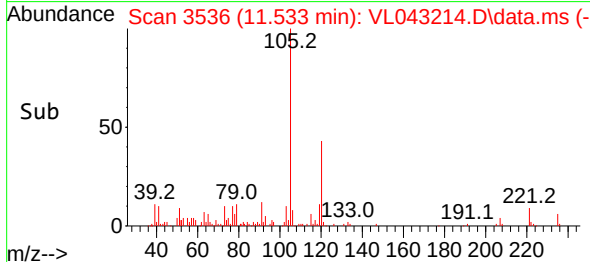
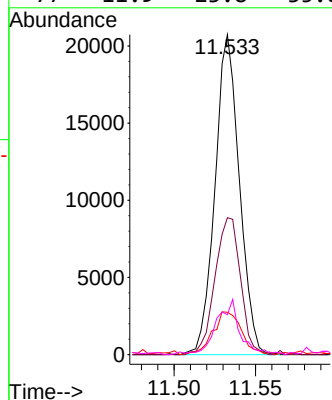
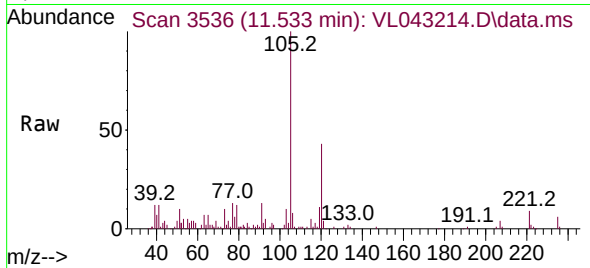
Tgt Ion:	105	Resp:	21546
Ion Ratio	Lower	Upper	
105	100		
120	42.8	41.7	62.5
91	13.2	70.0	105.0
77	11.9	23.8	35.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/19/2025

Supervised By :Mahesh Dadoda 11/19/2025



#79

Naphthalene

Concen: 0.121 ppbv m

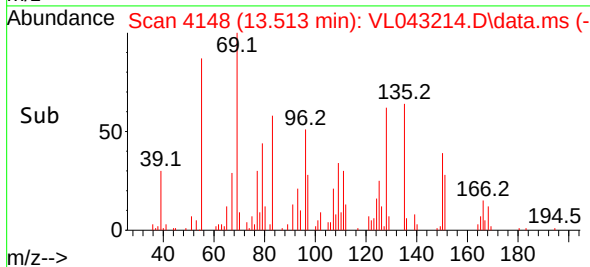
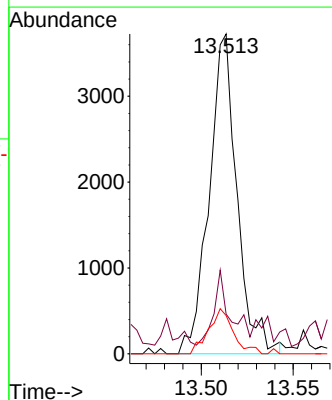
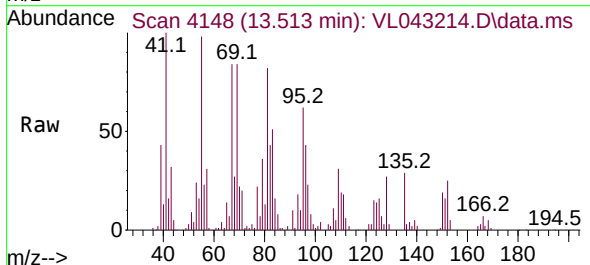
RT: 13.513 min Scan# 4148

Delta R.T. 0.007 min

Lab File: VL043214.D

Acq: 18 Nov 2025 15:57

Tgt Ion:	128	Resp:	3926
Ion Ratio	Lower	Upper	
128	100		
127	12.4	9.9	14.9
129	12.0	8.4	12.6



Report of Analysis

Client: GFE LLC
Project: 316 TO 326 WESTBURY AVE
Client Sample ID: IA1DL
Lab Sample ID: Q3651-03DL
Analytical Method: TO-15
Sample Wt/Vol: 400 mL

Date Collected: 11/11/25
Date Received: 11/14/25
SDG No.: Q3651
Matrix: Air
Test: VOCMS Group2

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qua.	DF	MDL ug/m3	LOQ / CRQL ug/m3	Date Ana.	BatchID
TARGETS									
75-01-4	Vinyl Chloride	0.50	1.28	UD	20	1.28	1.53	11/18/25 23:09	VL111825
142-82-5	Heptane	3.40	13.9	UD	20	13.9	41.0	11/18/25 23:09	VL111825
75-34-3	1,1-Dichloroethane	2.60	10.5	UD	20	10.5	40.5	11/18/25 23:09	VL111825
110-82-7	Cyclohexane	4.40	15.2	UD	20	15.2	34.4	11/18/25 23:09	VL111825
156-59-2	cis-1,2-Dichloroethene	2.00	7.93	UD	20	7.93	39.6	11/18/25 23:09	VL111825
71-55-6	1,1,1-Trichloroethane	0.32	1.75	UD	20	1.75	3.27	11/18/25 23:09	VL111825
540-84-1	2,2,4-Trimethylpentane	2.80	13.1	UD	20	13.1	46.7	11/18/25 23:09	VL111825
71-43-2	Benzene	1.60	5.11	UD	20	5.11	31.9	11/18/25 23:09	VL111825
79-01-6	Trichloroethene	0.48	2.58	UD	20	2.58	3.22	11/18/25 23:09	VL111825
108-88-3	Toluene	260	980	D	20	12.1	37.7	11/18/25 23:09	VL111825
127-18-4	Tetrachloroethene	0.30	2.03	UD	20	2.03	4.07	11/18/25 23:09	VL111825
100-41-4	Ethyl Benzene	3.80	16.5	UD	20	16.5	43.4	11/18/25 23:09	VL111825
179601-23-1	m/p-Xylene	8.20	35.6	UD	20	35.6	86.9	11/18/25 23:09	VL111825
95-47-6	o-Xylene	4.20	18.2	UD	20	18.2	43.4	11/18/25 23:09	VL111825
108-67-8	1,3,5-Trimethylbenzene	3.60	17.7	UD	20	17.7	49.2	11/18/25 23:09	VL111825
95-63-6	1,2,4-Trimethylbenzene	3.60	17.7	UD	20	17.7	49.2	11/18/25 23:09	VL111825
91-20-3	Naphthalene	0.26	1.36	UD	20	1.36	10.5	11/18/25 23:09	VL111825
110-54-3	Hexane	3.20	11.3	UD	20	11.3	35.2	11/18/25 23:09	VL111825

SURROGATES

460-00-4	1-Bromo-4-Fluorobenzene	10.1		65 - 135	101%	SPK: 10
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INTERNAL STANDARDS

	Area Count	
74-97-5	Bromochloromethane	97500
540-36-3	1,4-Difluorobenzene	253000
3114-55-4	Chlorobenzene-d5	195000

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\VL111825\
 Data File : VL043227.D
 Acq On : 18 Nov 2025 23:09
 Operator : SY/MD
 Sample : Q3651-03DL 20X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA1DL

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 11/19/2025
 Supervised By :Mahesh Dadoda 11/19/2025

Quant Time: Nov 19 01:42:06 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2
 QLast Update : Wed Nov 19 01:11:25 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.784	49	97499	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.952	114	252986	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.875	117	194710	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.368	95	143516	10.056	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.600%
Target Compounds						
9) Propene	1.486	41	76968	13.402	ppbv #	13
13) Ethanol	1.719	45	3837	1.900	ppbv #	38
15) Acetone	1.832	43	534562	39.463	ppbv	100
19) Isopropyl Alcohol	1.884	45	62095	8.112	ppbv #	1
20) Methylene Chloride	2.059	84	2076011	563.561	ppbv #	68
25) Ethyl Acetate	2.829	43	1059250	36.257	ppbv #	92
34) 2-Butanone	2.561	43	3618m	0.203	ppbv	
53) Toluene	6.924	91	373472	13.018	ppbv	99
59) m/p-Xylene	9.529	91	8382m	0.279	ppbv	

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

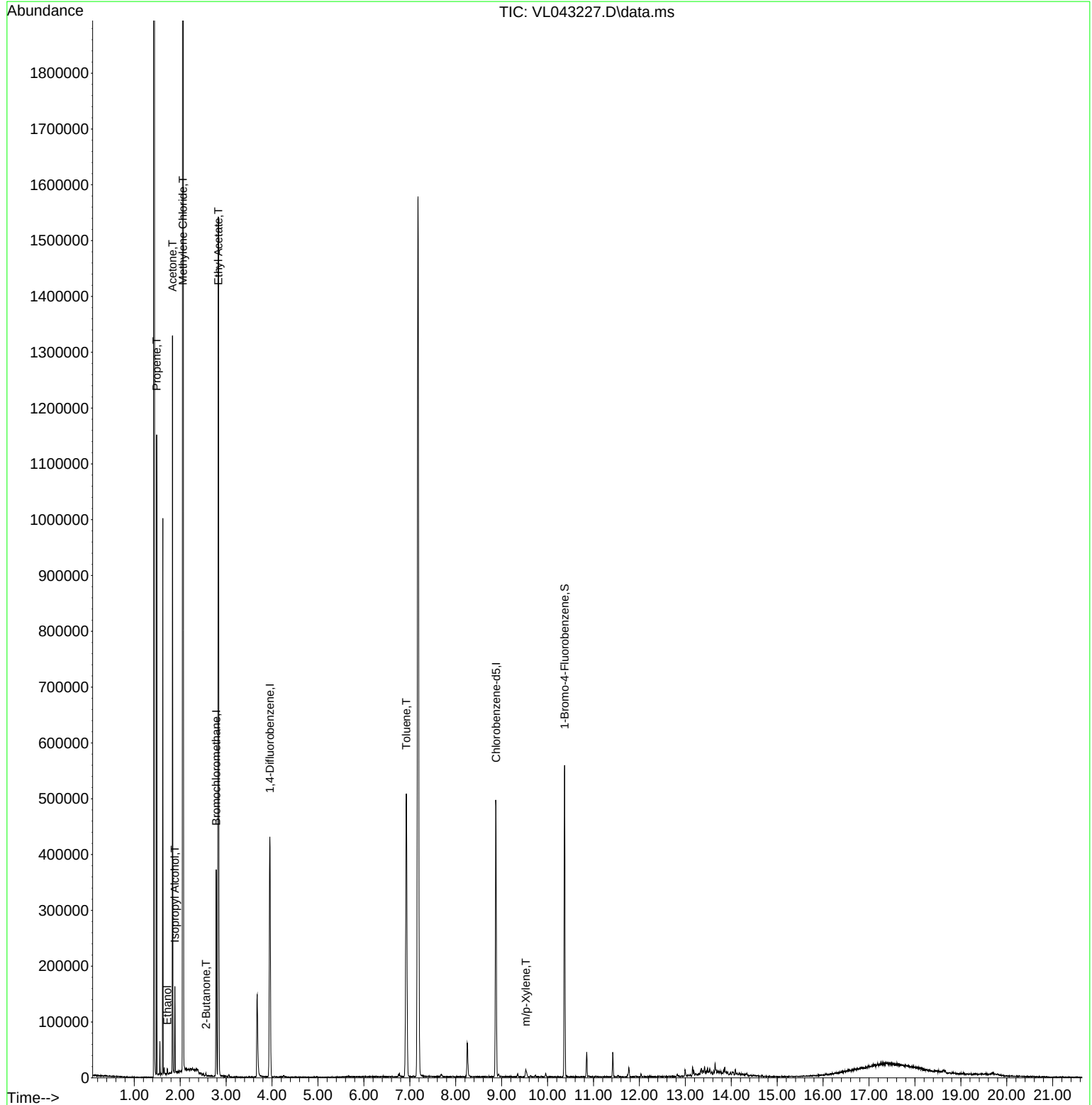
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Data File : VL043227.D
Acq On : 18 Nov 2025 23:09
Operator : SY/MD
Sample : Q3651-03DL 20X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

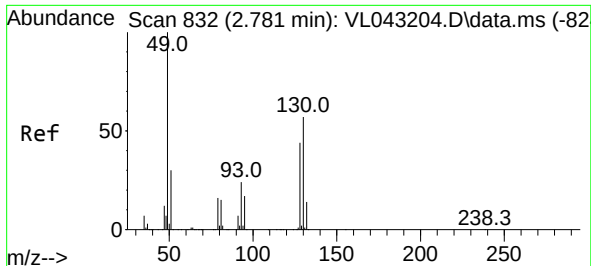
Instrument :
MSVOA_L
ClientSampleId :
IA1DL

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025

Quant Time: Nov 19 01:42:06 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Wed Nov 19 01:11:25 2025
Response via : Initial Calibration





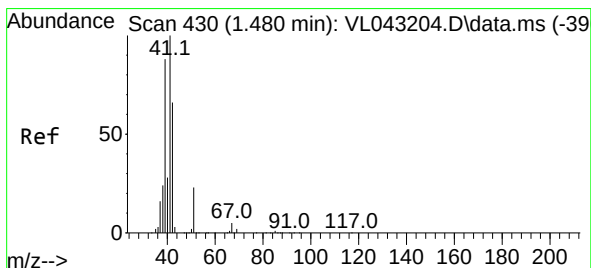
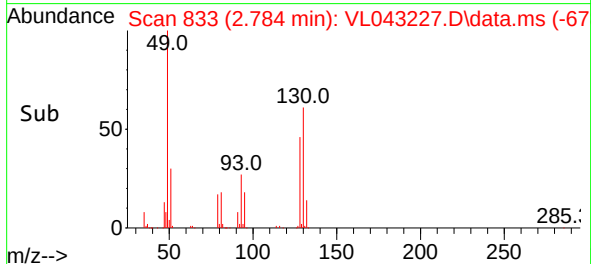
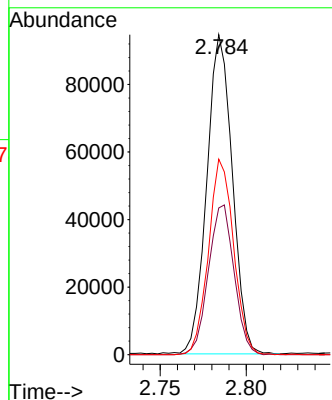
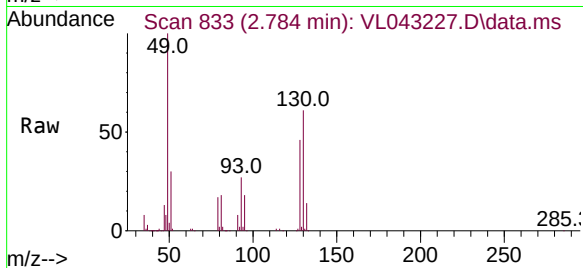
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 832
Delta R.T. 0.003 min
Lab File: VL043227.D
Acq: 18 Nov 2025 23:09

Instrument :
MSVOA_L
ClientSampleId :
IA1DL

Tgt Ion: 49 Resp: 97499
Ion Ratio Lower Upper
49 100
128 47.1 23.0 69.0
130 60.4 29.9 89.7

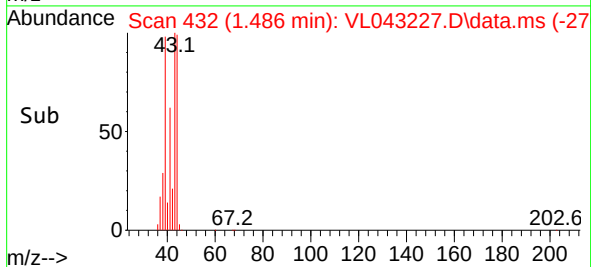
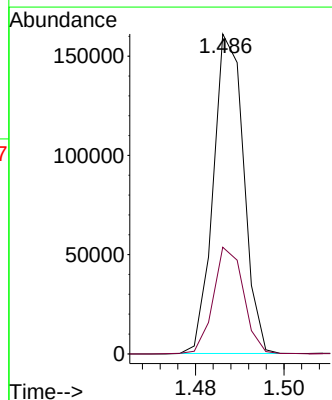
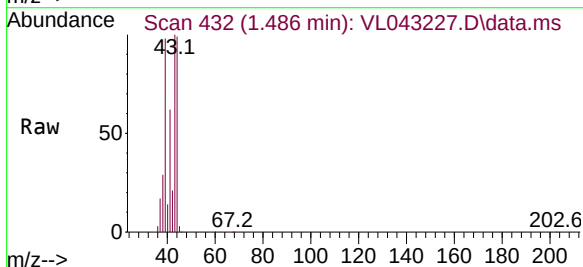
Manual Integrations
APPROVED

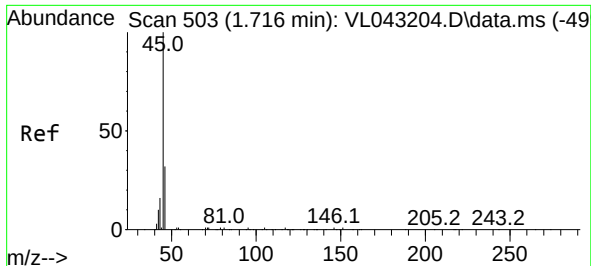
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#9
Propene
Concen: 13.402 ppbv
RT: 1.486 min Scan# 432
Delta R.T. 0.007 min
Lab File: VL043227.D
Acq: 18 Nov 2025 23:09

Tgt Ion: 41 Resp: 76968
Ion Ratio Lower Upper
41 100
42 33.4 3.7 5.5#





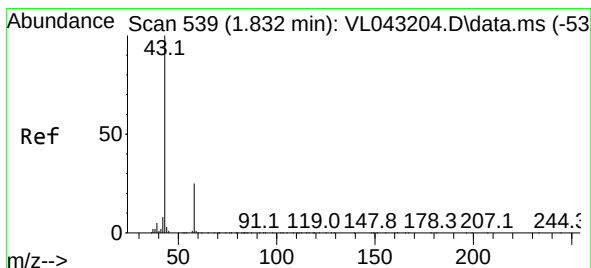
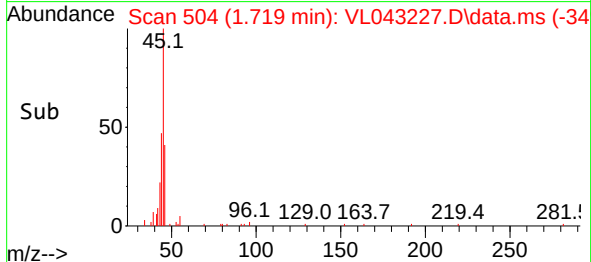
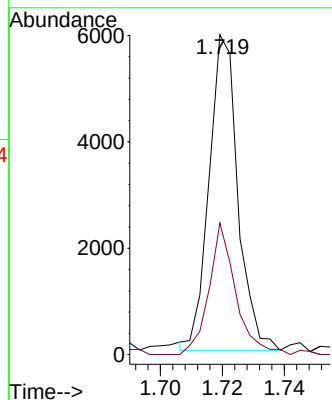
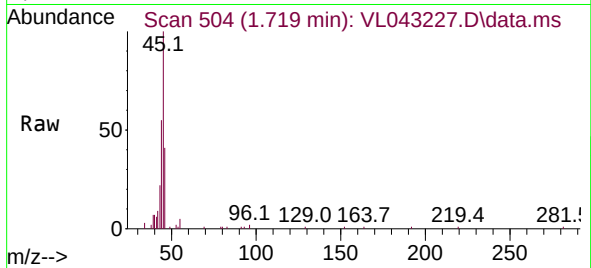
#13
Ethanol
Concen: 1.900 ppbv
RT: 1.719 min Scan# 503
Delta R.T. 0.003 min
Lab File: VL043227.D
Acq: 18 Nov 2025 23:09

Instrument :
MSVOA_L
ClientSampleId :
IA1DL

Tgt Ion: 45 Resp: 3832
Ion Ratio Lower Upper
45 100
46 0.0 15.0 59.8

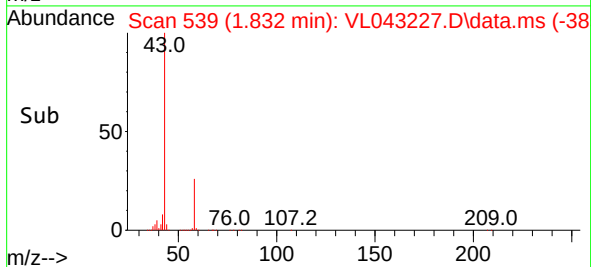
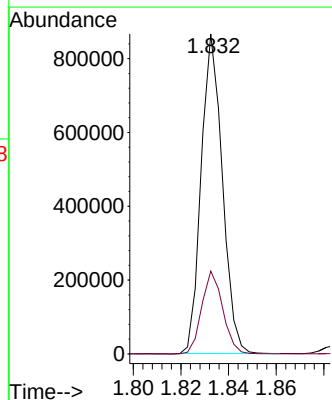
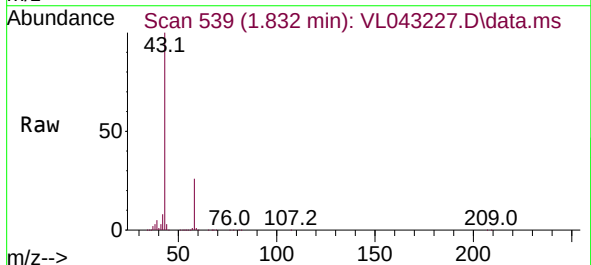
Manual Integrations
APPROVED

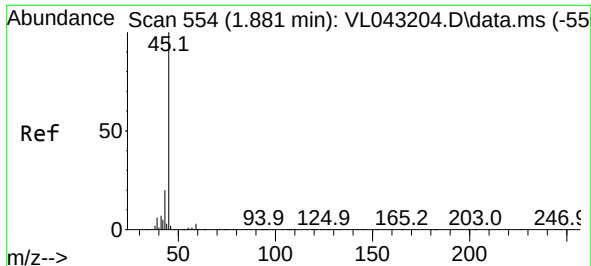
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#15
Acetone
Concen: 39.463 ppbv
RT: 1.832 min Scan# 539
Delta R.T. 0.000 min
Lab File: VL043227.D
Acq: 18 Nov 2025 23:09

Tgt Ion: 43 Resp: 534562
Ion Ratio Lower Upper
43 100
58 25.8 20.7 31.1





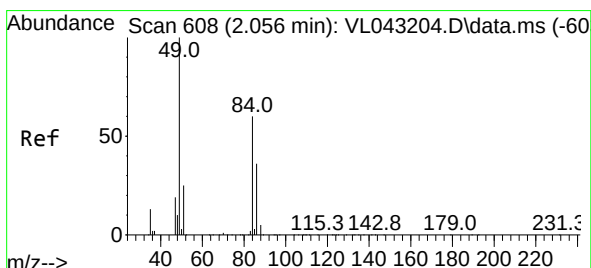
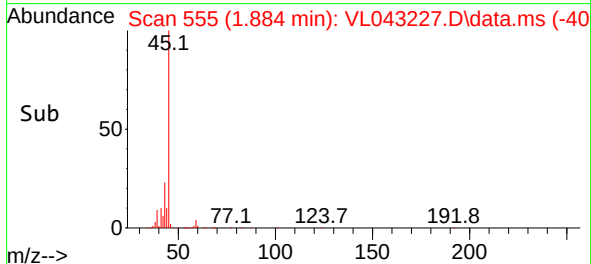
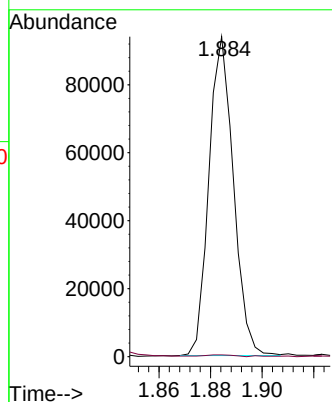
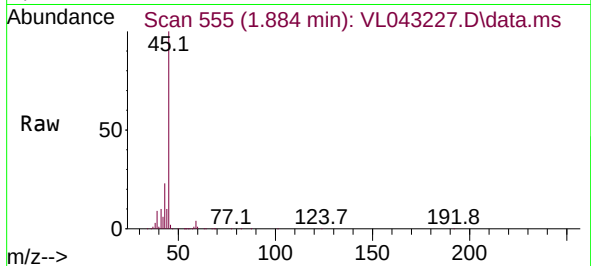
#19
Isopropyl Alcohol
Concen: 8.112 ppbv
RT: 1.884 min Scan# 511
Delta R.T. 0.003 min
Lab File: VL043227.D
Acq: 18 Nov 2025 23:09

Instrument :
MSVOA_L
ClientSampleId :
IA1DL

Tgt Ion: 45 Resp: 62095
Ion Ratio Lower Upper
45 100
58 221.7 31.3 46.9

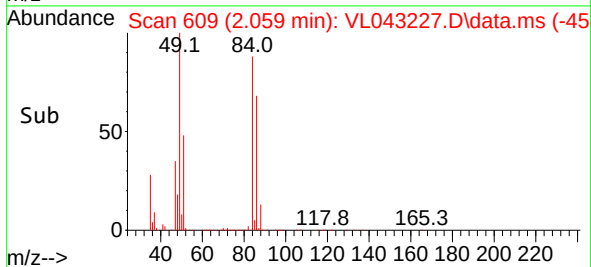
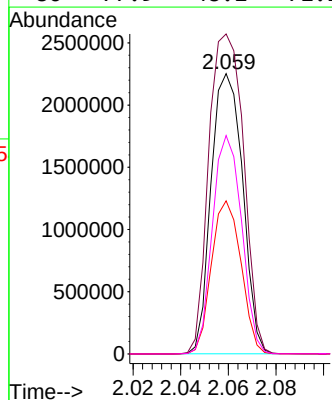
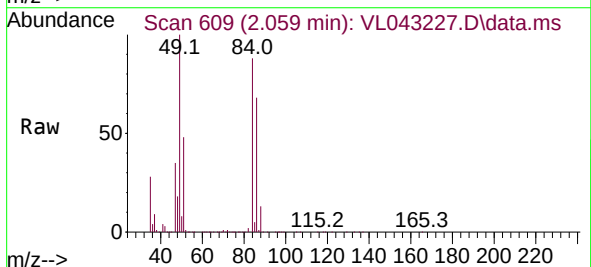
Manual Integrations
APPROVED

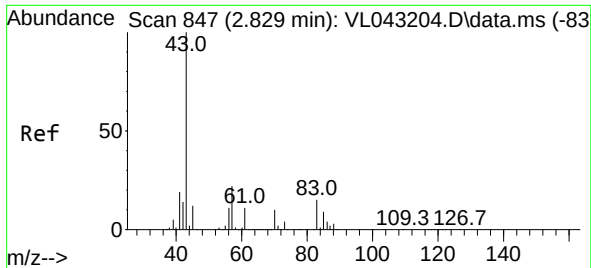
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#20
Methylene Chloride
Concen: 563.561 ppbv
RT: 2.059 min Scan# 609
Delta R.T. 0.003 min
Lab File: VL043227.D
Acq: 18 Nov 2025 23:09

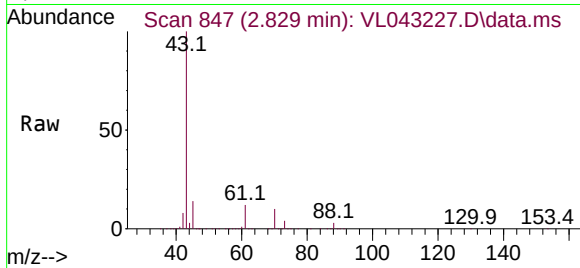
Tgt Ion: 84 Resp: 2076011
Ion Ratio Lower Upper
84 100
49 114.2 132.9 199.3#
51 54.6 34.8 52.2#
86 77.9 48.2 72.2#





#25
Ethyl Acetate
Concen: 36.257 ppbv
RT: 2.829 min Scan# 847
Delta R.T. 0.000 min
Lab File: VL043227.D
Acq: 18 Nov 2025 23:09

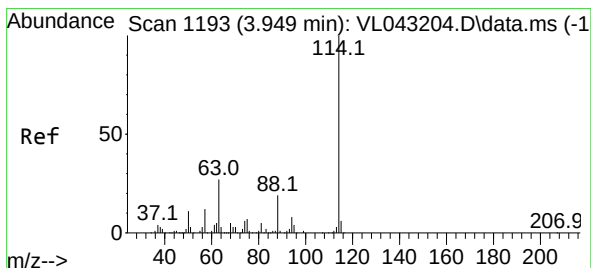
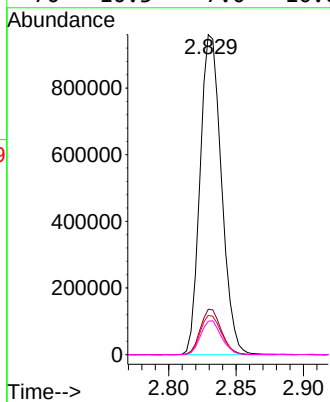
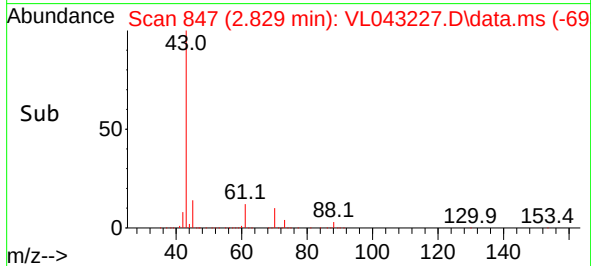
Instrument :
MSVOA_L
ClientSampleId :
IA1DL



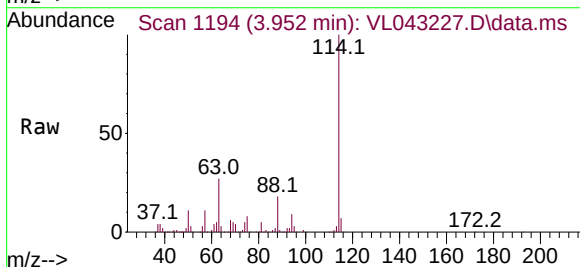
Tgt Ion: 43 Resp: 1059250
Ion Ratio Lower Upper
43 100
45 13.9 8.1 12.1
61 12.2 7.0 10.4
70 10.3 7.0 10.6

Manual Integrations
APPROVED

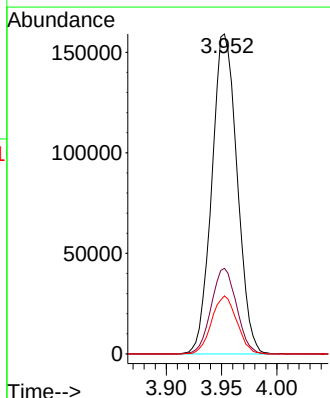
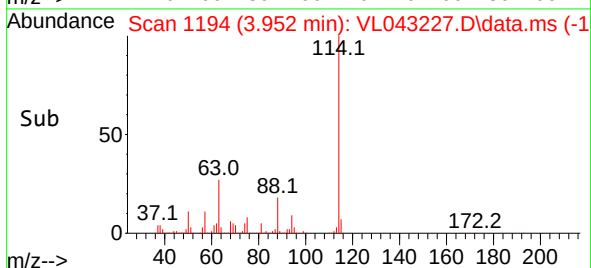
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025

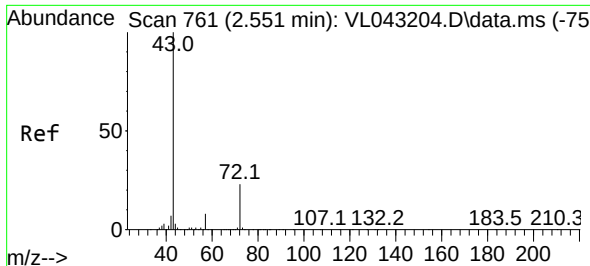


#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.952 min Scan# 1194
Delta R.T. 0.003 min
Lab File: VL043227.D
Acq: 18 Nov 2025 23:09



Tgt Ion:114 Resp: 252986
Ion Ratio Lower Upper
114 100
63 26.8 21.0 31.6
88 18.0 14.9 22.3





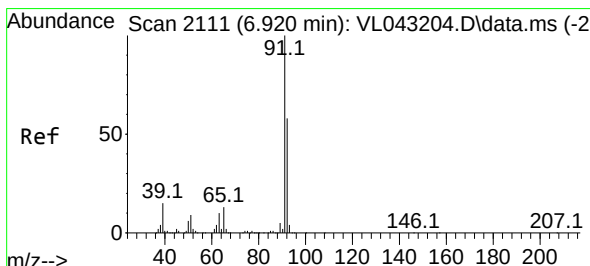
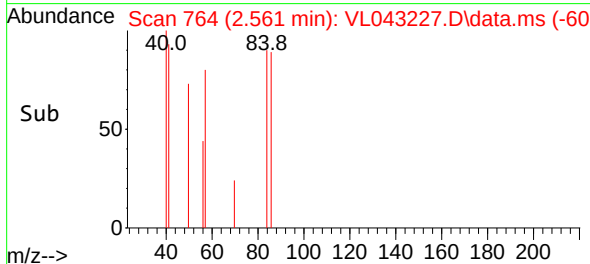
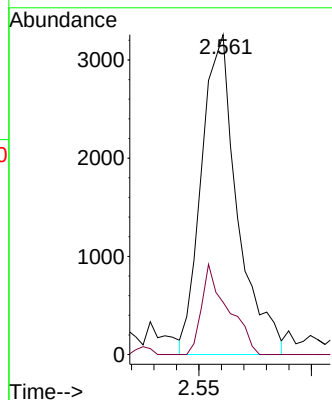
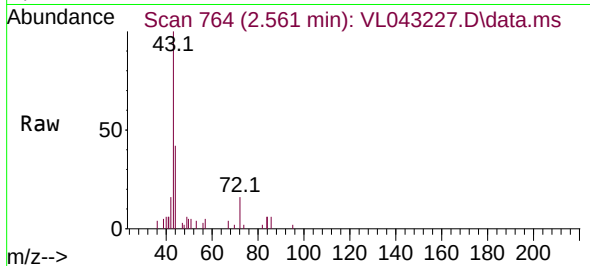
#34
2-Butanone
Concen: 0.203 ppbv m
RT: 2.561 min Scan# 761
Delta R.T. 0.010 min
Lab File: VL043227.D
Acq: 18 Nov 2025 23:09

Instrument :
MSVOA_L
ClientSampleId :
IA1DL

Tgt Ion: 43 Resp: 3618
Ion Ratio Lower Upper
43 100
72 0.0 18.1 27.1

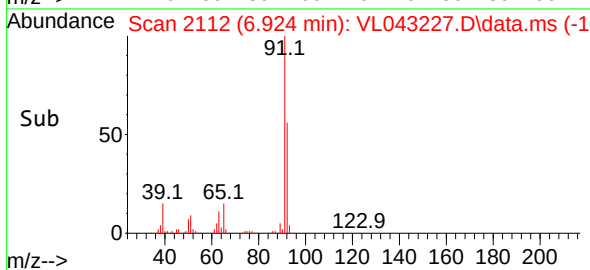
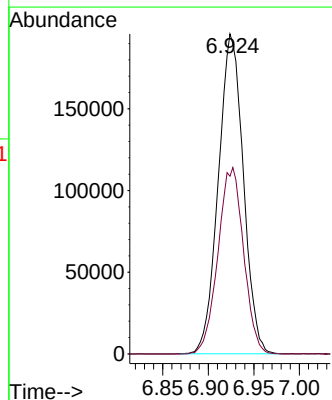
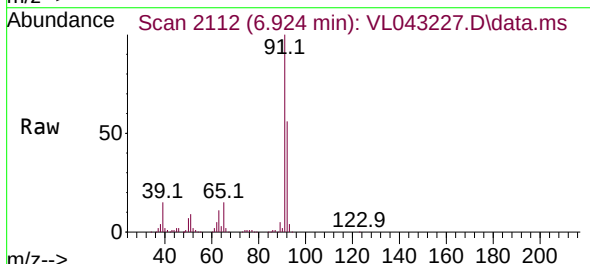
Manual Integrations
APPROVED

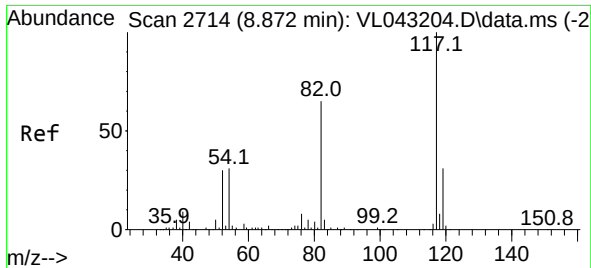
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#53
Toluene
Concen: 13.018 ppbv
RT: 6.924 min Scan# 2112
Delta R.T. 0.003 min
Lab File: VL043227.D
Acq: 18 Nov 2025 23:09

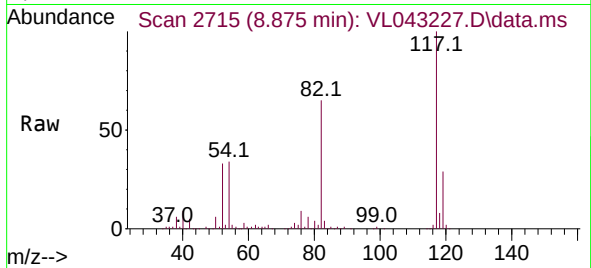
Tgt Ion: 91 Resp: 373472
Ion Ratio Lower Upper
91 100
92 59.6 47.4 71.0





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.875 min Scan# 2715
Delta R.T. 0.003 min
Lab File: VL043227.D
Acq: 18 Nov 2025 23:09

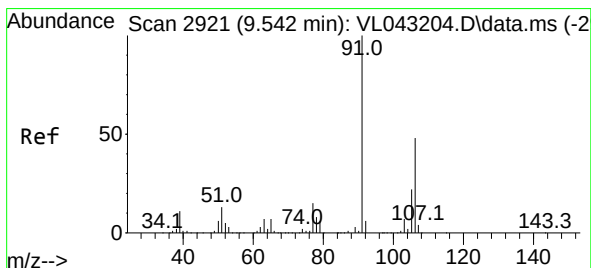
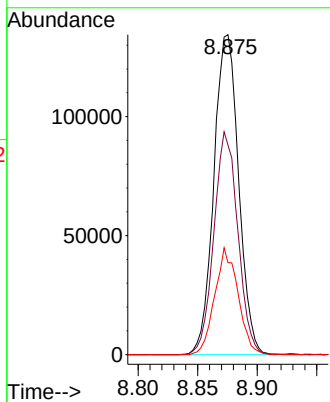
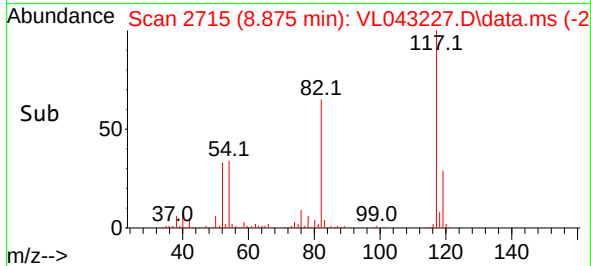
Instrument :
MSVOA_L
ClientSampleId :
IA1DL



Tgt Ion:117 Resp: 194710
Ion Ratio Lower Upper
117 100
82 67.3 56.1 84.1
119 31.4 25.0 37.6

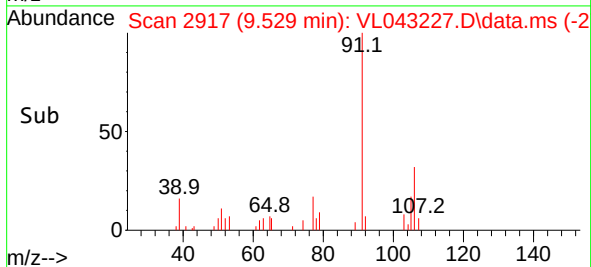
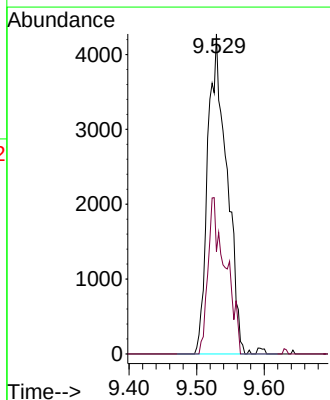
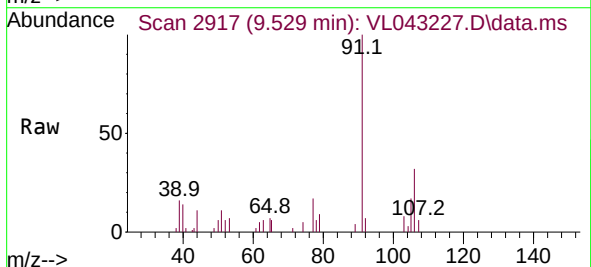
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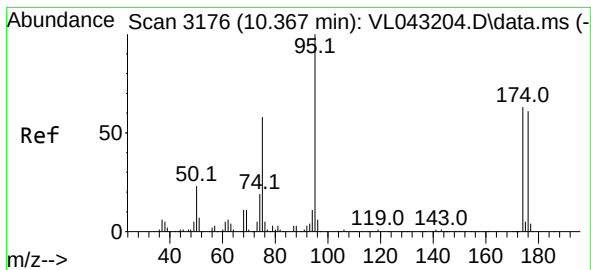
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#59
m/p-Xylene
Concen: 0.279 ppbv m
RT: 9.529 min Scan# 2917
Delta R.T. -0.013 min
Lab File: VL043227.D
Acq: 18 Nov 2025 23:09

Tgt Ion: 91 Resp: 8382
Ion Ratio Lower Upper
91 100
106 44.6 36.1 54.1





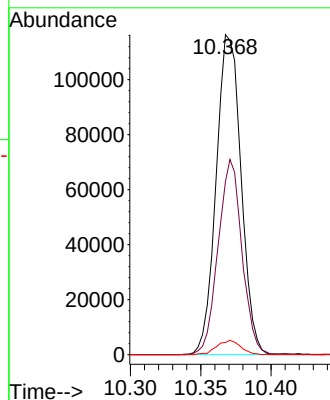
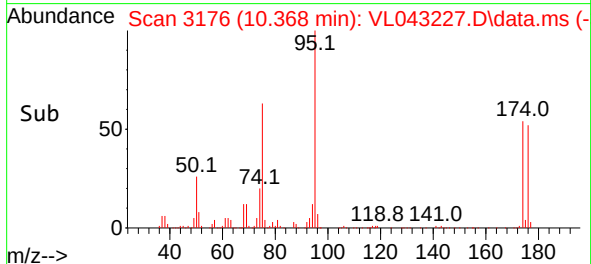
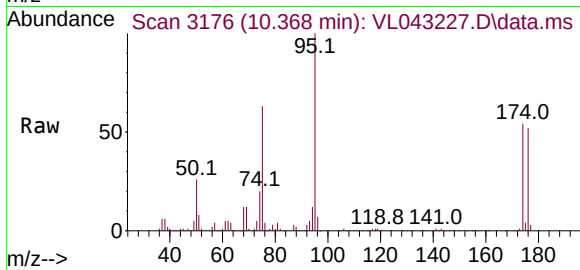
#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.056 ppbv
 RT: 10.368 min Scan# 3176
 Delta R.T. 0.000 min
 Lab File: VL043227.D
 Acq: 18 Nov 2025 23:09

Instrument :
 MSVOA_L
 ClientSampleId :
 IA1DL

Tgt Ion: 95 Resp: 143516
 Ion Ratio Lower Upper
 95 100
 174 58.3 50.2 75.2
 175 4.2 4.1 6.1

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Reviewed By :Semsettin Yesilyurt 11/19/2025
 Supervised By :Mahesh Dadoda 11/19/2025



Report of Analysis

Client: GFE LLC
Project: 316 TO 326 WESTBURY AVE
Client Sample ID: IA2
Lab Sample ID: Q3651-04
Analytical Method: TO-15
Sample Wt/Vol: 400 mL

Date Collected: 11/11/25
Date Received: 11/14/25
SDG No.: Q3651
Matrix: Air
Test: VOCMS Group2

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qua.	DF	MDL ug/m3	LOQ / CRQL ug/m3	Date Ana.	BatchID
TARGETS									
75-01-4	Vinyl Chloride	0.030	0.080	U	1	0.080	0.080	11/18/25 17:06	VL111825
142-82-5	Heptane	2.70	11.1		1	0.70	2.05	11/18/25 17:06	VL111825
75-34-3	1,1-Dichloroethane	0.13	0.53	U	1	0.53	2.02	11/18/25 17:06	VL111825
110-82-7	Cyclohexane	2.80	9.64		1	0.76	1.72	11/18/25 17:06	VL111825
156-59-2	cis-1,2-Dichloroethene	0.10	0.40	U	1	0.40	1.98	11/18/25 17:06	VL111825
71-55-6	1,1,1-Trichloroethane	0.020	0.11	U	1	0.11	0.16	11/18/25 17:06	VL111825
540-84-1	2,2,4-Trimethylpentane	1.70	7.94		1	0.65	2.34	11/18/25 17:06	VL111825
71-43-2	Benzene	0.35	1.12	J	1	0.26	1.60	11/18/25 17:06	VL111825
79-01-6	Trichloroethene	0.020	0.11	U	1	0.11	0.16	11/18/25 17:06	VL111825
108-88-3	Toluene	65.3	246	E	1	0.60	1.88	11/18/25 17:06	VL111825
127-18-4	Tetrachloroethene	0.23	1.56		1	0.14	0.20	11/18/25 17:06	VL111825
100-41-4	Ethyl Benzene	2.70	11.7		1	0.83	2.17	11/18/25 17:06	VL111825
179601-23-1	m/p-Xylene	9.10	39.5		1	1.78	4.34	11/18/25 17:06	VL111825
95-47-6	o-Xylene	2.00	8.69		1	0.91	2.17	11/18/25 17:06	VL111825
108-67-8	1,3,5-Trimethylbenzene	0.22	1.08	J	1	0.88	2.46	11/18/25 17:06	VL111825
95-63-6	1,2,4-Trimethylbenzene	0.71	3.49		1	0.88	2.46	11/18/25 17:06	VL111825
91-20-3	Naphthalene	0.10	0.52		1	0.050	0.52	11/18/25 17:06	VL111825
110-54-3	Hexane	2.50	8.81		1	0.56	1.76	11/18/25 17:06	VL111825

SURROGATES

460-00-4	1-Bromo-4-Fluorobenzene	10.0			65 - 135	100%	SPK: 10
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INTERNAL STANDARDS

	Area Count	
74-97-5	Bromochloromethane	100000
540-36-3	1,4-Difluorobenzene	262000
3114-55-4	Chlorobenzene-d5	210000

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\VL111825\
 Data File : VL043216.D
 Acq On : 18 Nov 2025 17:06
 Operator : SY/MD
 Sample : Q3651-04
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA2

Manual Integrations
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Reviewed By :Semsettin Yesilyurt 11/19/2025
 Supervised By :Mahesh Dadoda 11/19/2025

Quant Time: Nov 19 01:37:09 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M

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

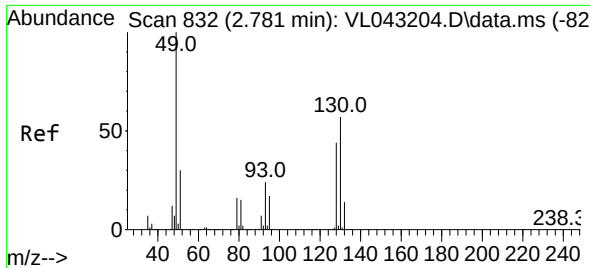
QLast Update : Wed Nov 19 01:11:25 2025

Response via : Initial Calibration

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

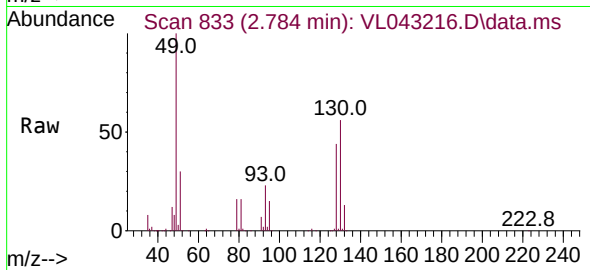
Internal Standards						
1) Bromochloromethane	2.784	49	100351	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.955	114	262303	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.875	117	209925	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.370	95	153270	9.961	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.600%
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.499	85	6238	0.441	ppbv	94
3) Chlorodifluoromethane	1.476	51	3576m	0.257	ppbv	
4) Chloromethane	1.531	50	2391	0.452	ppbv	89
9) Propene	1.489	41	27746	4.694	ppbv #	1
10) Heptane	4.978	43	47112m	2.678	ppbv	
11) Trichlorofluoromethane	1.877	101	16627	1.212	ppbv	95
13) Ethanol	1.719	45	45525	21.903	ppbv	98
15) Acetone	1.832	43	266713	19.130	ppbv	96
19) Isopropyl Alcohol	1.884	45	160275	20.344	ppbv	98
20) Methylene Chloride	2.059	84	968424	254.954	ppbv	84
25) Ethyl Acetate	2.832	43	62337	2.073	ppbv #	94
26) Hexane	2.826	57	32285	2.449	ppbv	86
30) Cyclohexane	3.852	84	30559	2.765	ppbv	98
34) 2-Butanone	2.551	43	575504	31.082	ppbv	99
35) Carbon Tetrachloride	3.755	117	1135m	0.057	ppbv	
36) Benzene	3.651	78	8905m	0.354	ppbv	
44) 2,2,4-Trimethylpentane	4.638	57	75256	1.744	ppbv #	83
50) 4-Methyl-2-Pentanone	5.752	43	6381m	0.245	ppbv	
52) Tetrachloroethene	8.215	164	2163m	0.231	ppbv	
53) Toluene	6.930	91	1941988	65.288	ppbv	98
58) Ethyl Benzene	9.348	91	110526	2.735	ppbv	100
59) m/p-Xylene	9.526	91	294403	9.088	ppbv	100
60) o-Xylene	9.956	91	64946	2.007	ppbv	96
61) Styrene	9.862	104	1636m	0.116	ppbv	
72) 4-Ethyltoluene	11.124	105	6660	0.169	ppbv #	55
73) 1,3,5-Trimethylbenzene	11.199	105	7120	0.215	ppbv	99
74) 1,2,4-Trimethylbenzene	11.532	105	25655	0.711	ppbv #	48
79) Naphthalene	13.510	128	3287m	0.103	ppbv	

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



#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 832
Delta R.T. 0.003 min
Lab File: VL043216.D
Acq: 18 Nov 2025 17:06

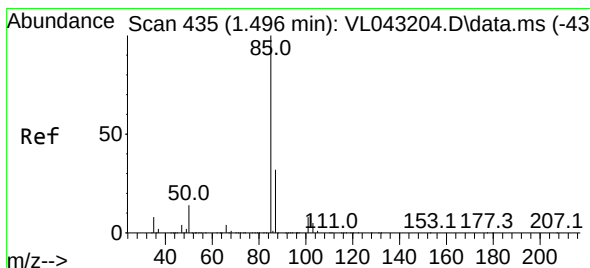
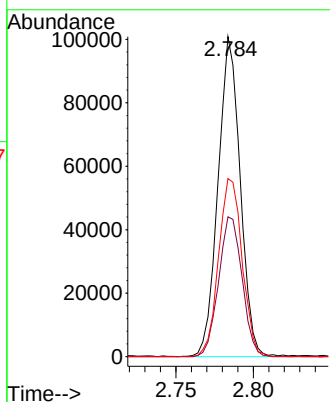
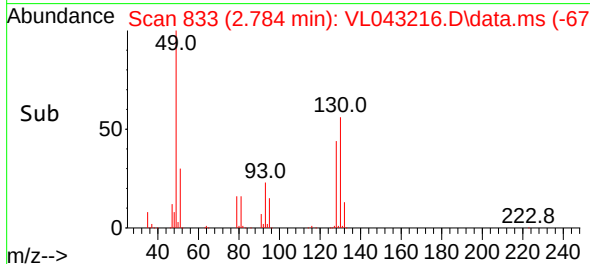
Instrument :
MSVOA_L
ClientSampleId :
IA2



Tgt Ion: 49 Resp: 10035
Ion Ratio Lower Upper
49 100
128 46.1 23.0 69.0
130 59.1 29.9 89.7

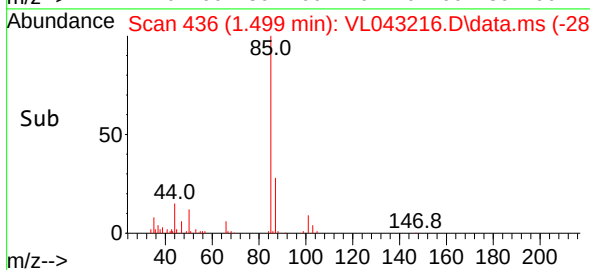
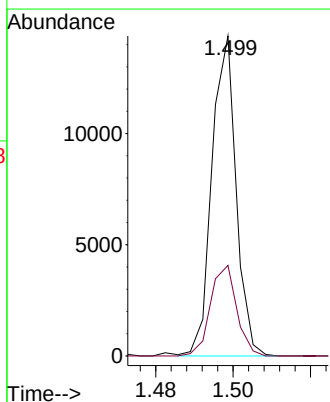
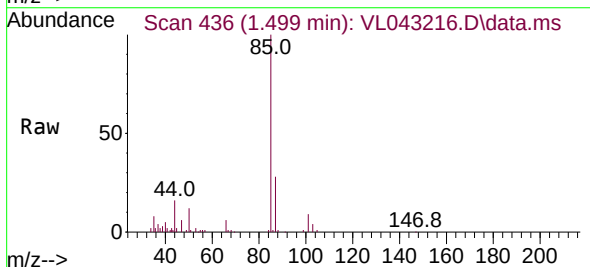
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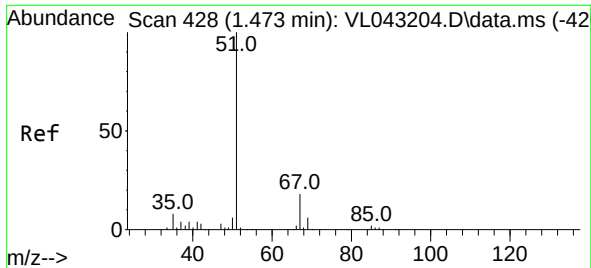
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#2
Dichlorodifluoromethane
Concen: 0.441 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.003 min
Lab File: VL043216.D
Acq: 18 Nov 2025 17:06

Tgt Ion: 85 Resp: 6238
Ion Ratio Lower Upper
85 100
87 28.3 25.4 38.2





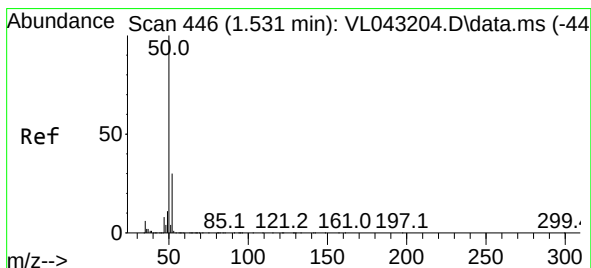
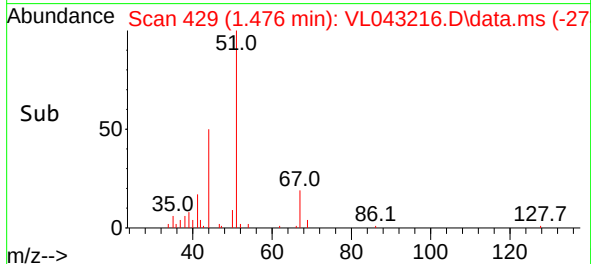
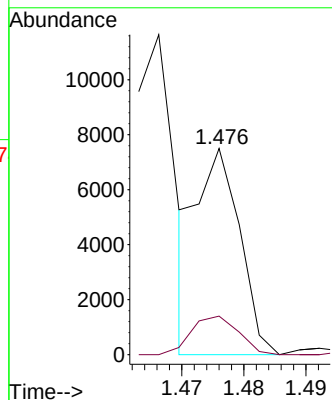
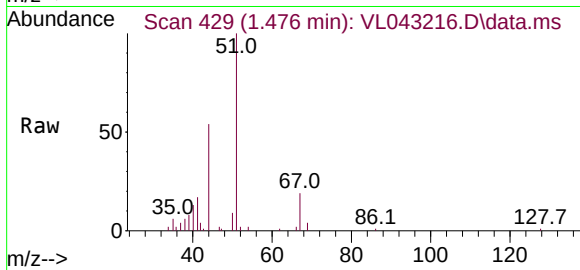
#3
Chlorodifluoromethane
Concen: 0.257 ppbv m
RT: 1.476 min Scan# 428
Delta R.T. 0.003 min
Lab File: VL043216.D
Acq: 18 Nov 2025 17:06

Instrument :
MSVOA_L
ClientSampleId :
IA2

Tgt Ion: 51 Resp: 3576
Ion Ratio Lower Upper
51 100
67 0.0 14.9 22.3

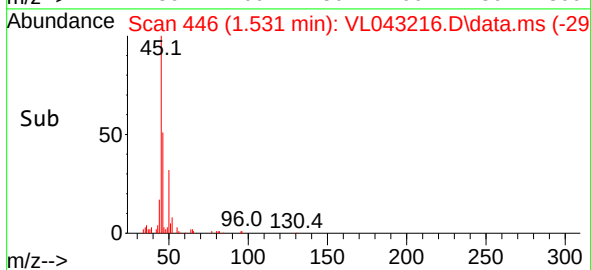
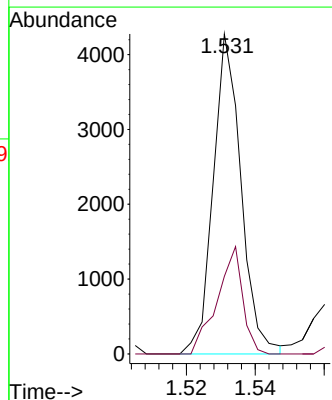
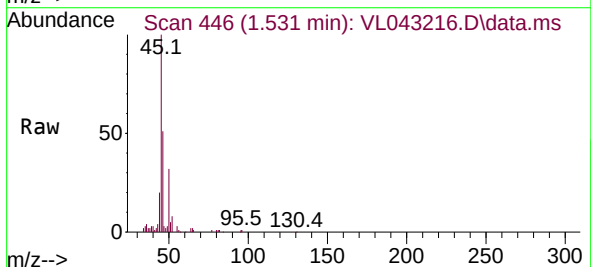
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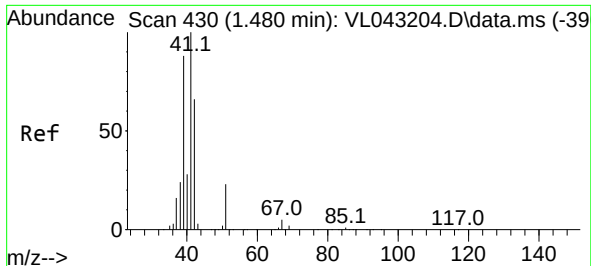
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#4
Chloromethane
Concen: 0.452 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL043216.D
Acq: 18 Nov 2025 17:06

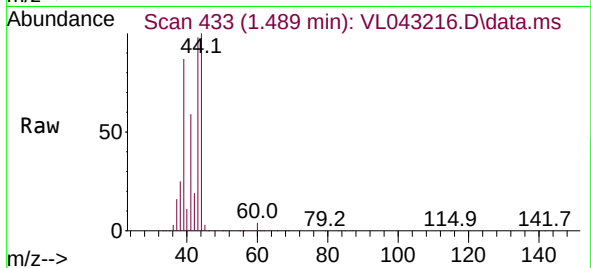
Tgt Ion: 50 Resp: 2391
Ion Ratio Lower Upper
50 100
52 24.2 24.1 36.1





#9
 Propene
 Concen: 4.694 ppbv
 RT: 1.489 min Scan# 431
 Delta R.T. 0.009 min
 Lab File: VL043216.D
 Acq: 18 Nov 2025 17:06

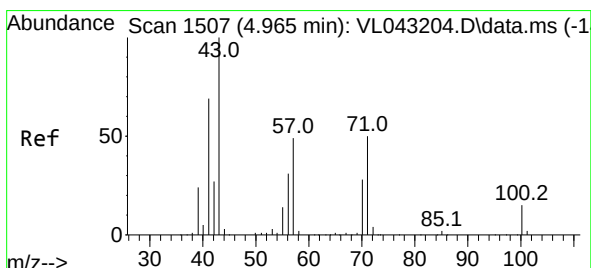
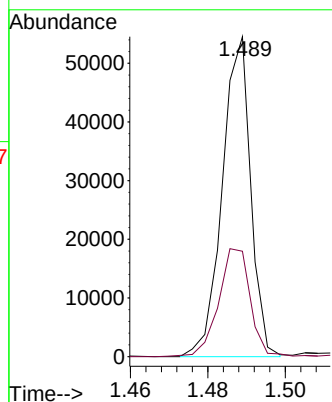
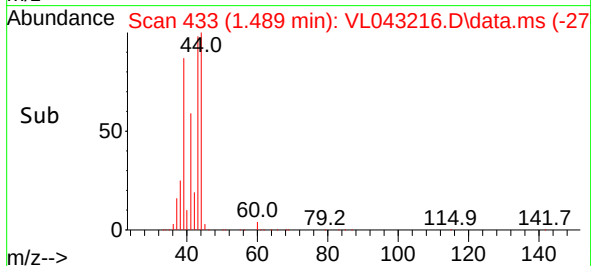
Instrument :
 MSVOA_L
 ClientSampleId :
 IA2



Tgt Ion: 41 Resp: 27746
 Ion Ratio Lower Upper
 41 100
 42 38.2 3.7 5.5

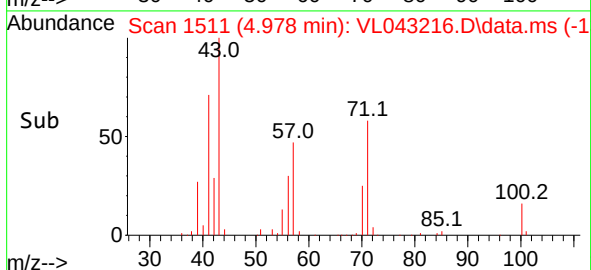
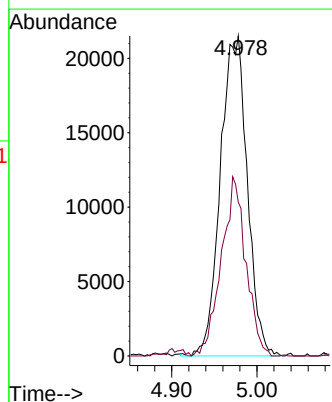
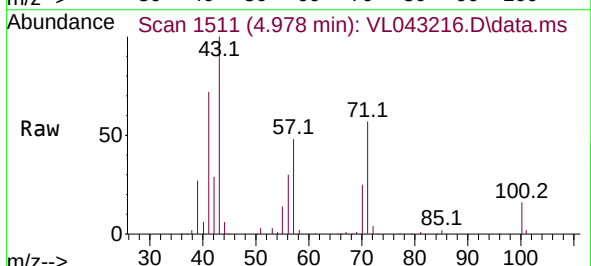
Manual Integrations
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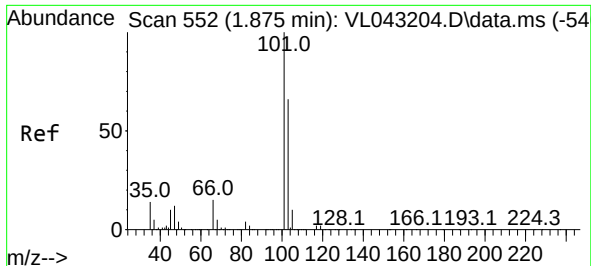
Reviewed By :Semsettin Yesilyurt 11/19/2025
 Supervised By :Mahesh Dadoda 11/19/2025



#10
 Heptane
 Concen: 2.678 ppbv m
 RT: 4.978 min Scan# 1511
 Delta R.T. 0.013 min
 Lab File: VL043216.D
 Acq: 18 Nov 2025 17:06

Tgt Ion: 43 Resp: 47112
 Ion Ratio Lower Upper
 43 100
 57 51.0 39.7 59.5





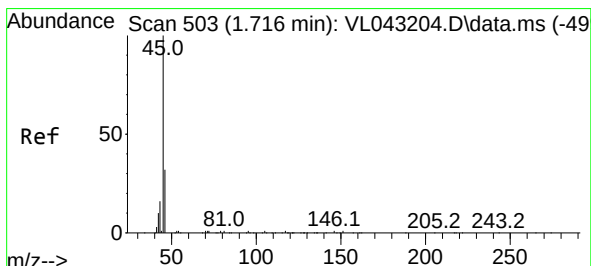
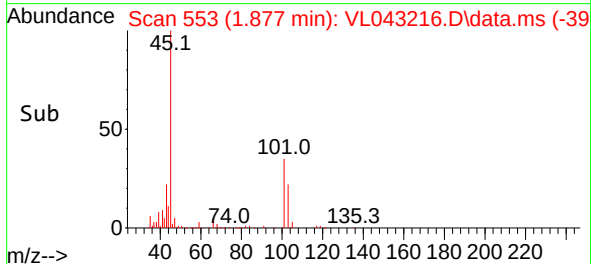
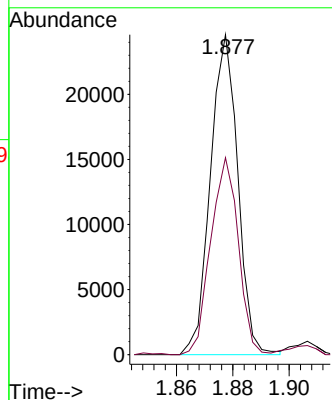
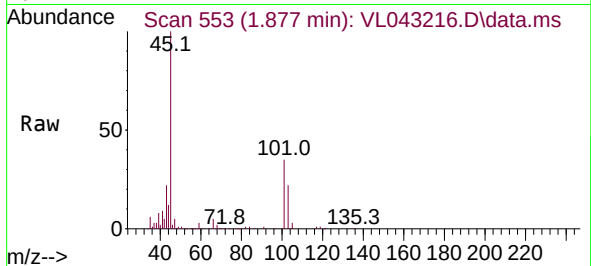
#11
Trichlorofluoromethane
Concen: 1.212 ppbv
RT: 1.877 min Scan# 501
Delta R.T. 0.003 min
Lab File: VL043216.D
Acq: 18 Nov 2025 17:06

Instrument :
MSVOA_L
ClientSampleId :
IA2

Tgt Ion:101 Resp: 1662
Ion Ratio Lower Upper
101 100
103 61.5 52.6 79.0

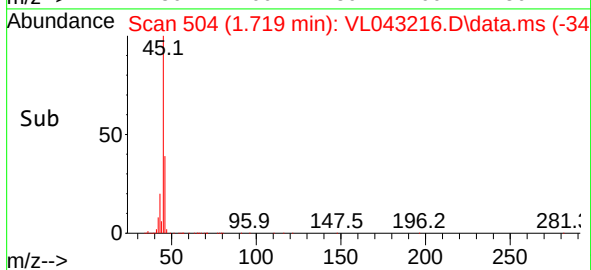
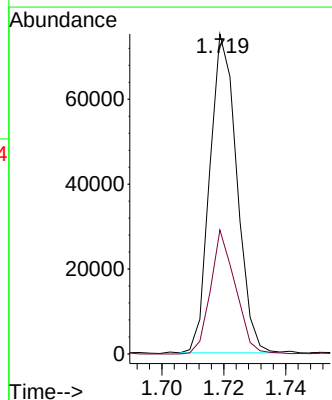
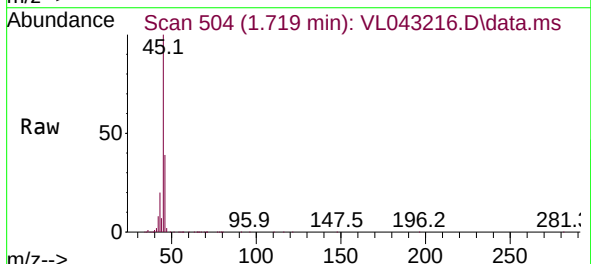
Manual Integrations
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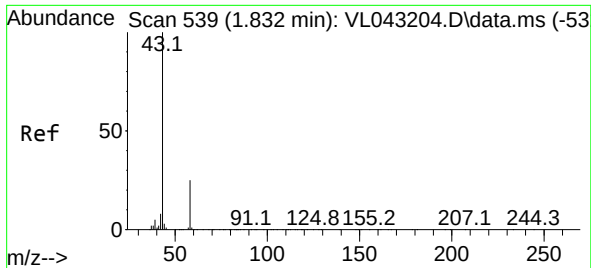
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#13
Ethanol
Concen: 21.903 ppbv
RT: 1.719 min Scan# 504
Delta R.T. 0.003 min
Lab File: VL043216.D
Acq: 18 Nov 2025 17:06

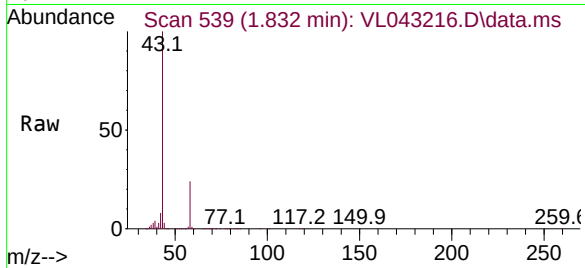
Tgt Ion: 45 Resp: 45525
Ion Ratio Lower Upper
45 100
46 36.1 15.0 59.8





#15
Acetone
Concen: 19.130 ppbv
RT: 1.832 min Scan# 539
Delta R.T. -0.000 min
Lab File: VL043216.D
Acq: 18 Nov 2025 17:06

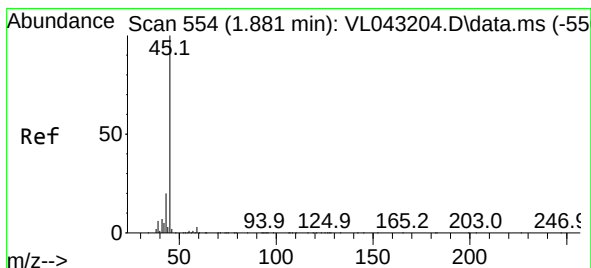
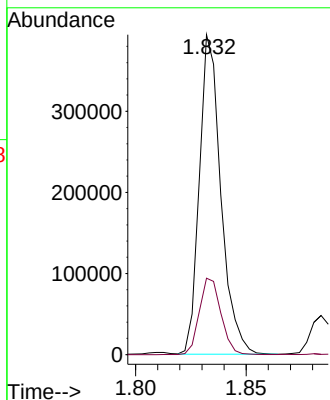
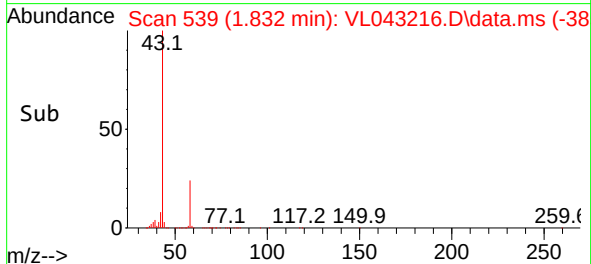
Instrument :
MSVOA_L
ClientSampleId :
IA2



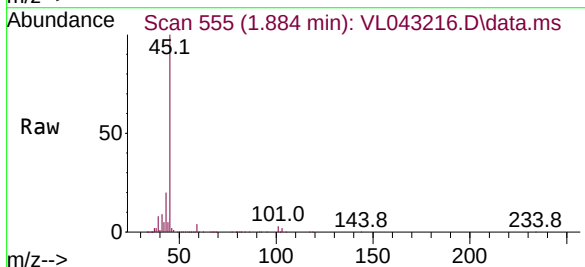
Tgt Ion: 43 Resp: 266713
Ion Ratio Lower Upper
43 100
58 24.1 20.7 31.1

Manual Integrations
APPROVED

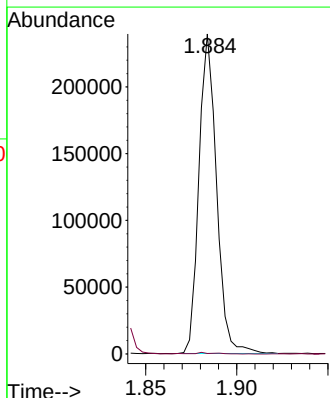
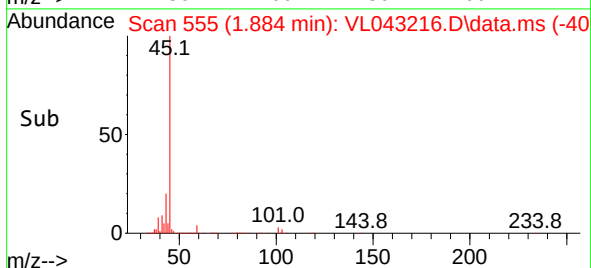
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025

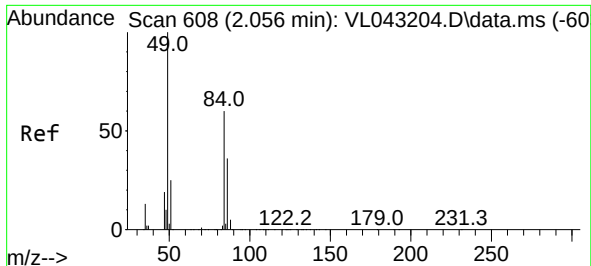


#19
Isopropyl Alcohol
Concen: 20.344 ppbv
RT: 1.884 min Scan# 555
Delta R.T. 0.003 min
Lab File: VL043216.D
Acq: 18 Nov 2025 17:06



Tgt Ion: 45 Resp: 160275
Ion Ratio Lower Upper
45 100
58 40.1 31.3 46.9





#20

Methylene Chloride

Concen: 254.954 ppbv

RT: 2.059 min Scan# 608

Delta R.T. 0.003 min

Lab File: VL043216.D

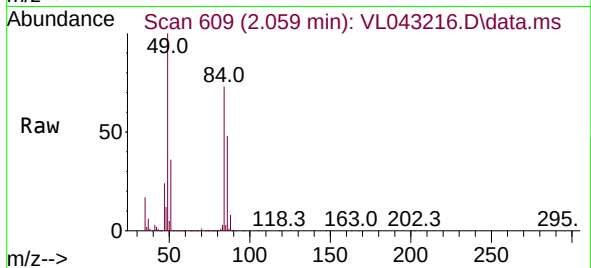
Acq: 18 Nov 2025 17:06

Instrument :

MSVOA_L

ClientSampleId :

IA2



Tgt Ion: 84 Resp: 968424

Ion Ratio Lower Upper

84 100

49 137.9 132.9 199.3

51 49.0 34.8 52.2

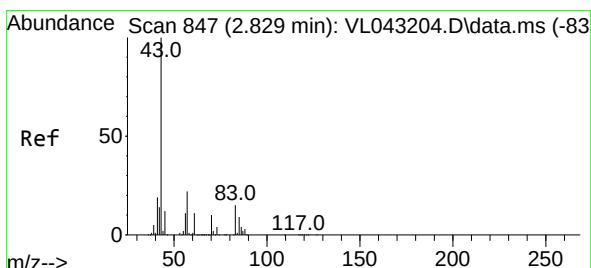
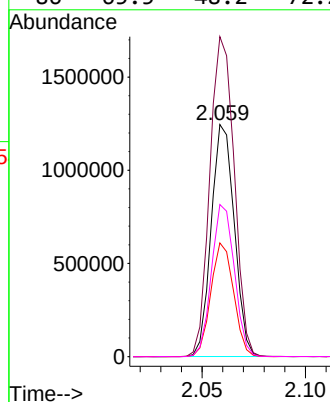
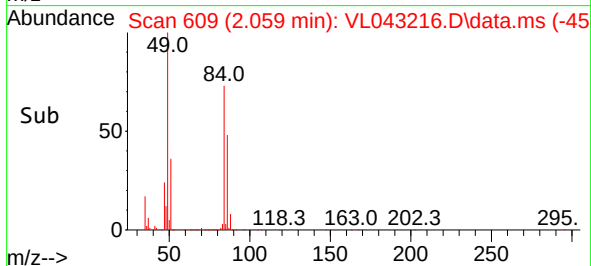
86 65.5 48.2 72.2

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 11/19/2025

Supervised By :Mahesh Dadoda 11/19/2025



#25

Ethyl Acetate

Concen: 2.073 ppbv

RT: 2.832 min Scan# 848

Delta R.T. 0.003 min

Lab File: VL043216.D

Acq: 18 Nov 2025 17:06

Tgt Ion: 43 Resp: 62337

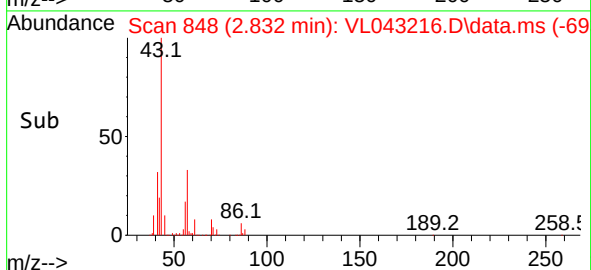
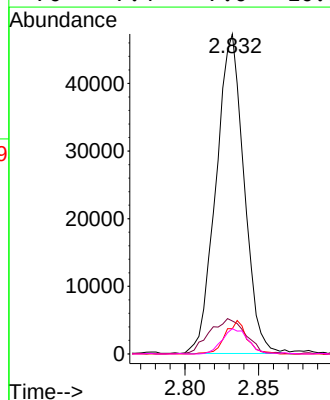
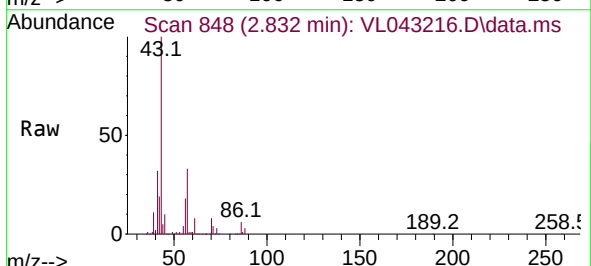
Ion Ratio Lower Upper

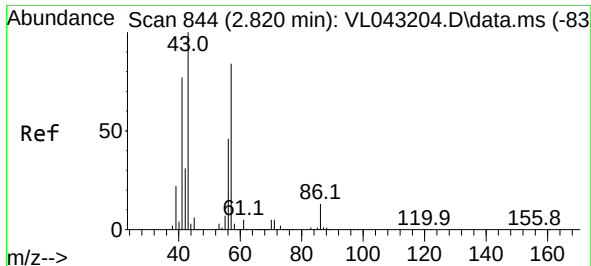
43 100

45 14.4 8.1 12.1

61 8.1 7.0 10.4

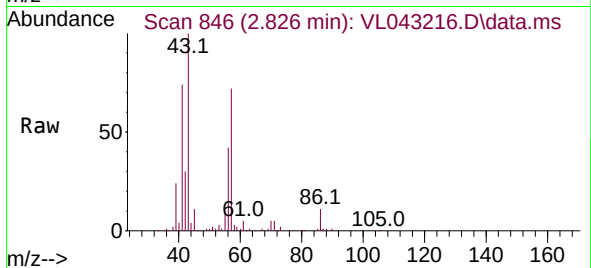
70 7.4 7.0 10.6





#26
Hexane
Concen: 2.449 ppbv
RT: 2.826 min Scan# 844
Delta R.T. 0.006 min
Lab File: VL043216.D
Acq: 18 Nov 2025 17:06

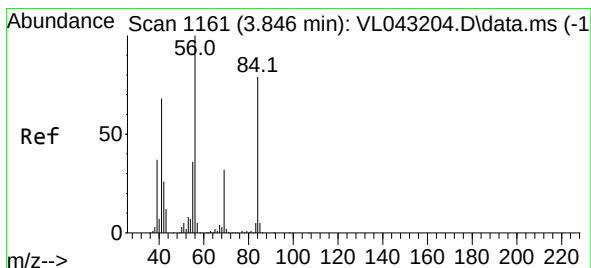
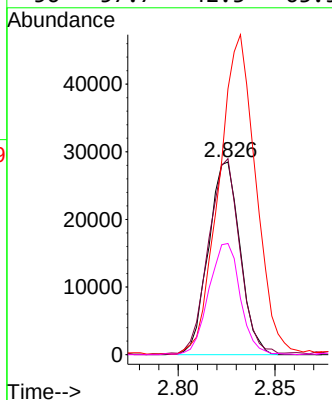
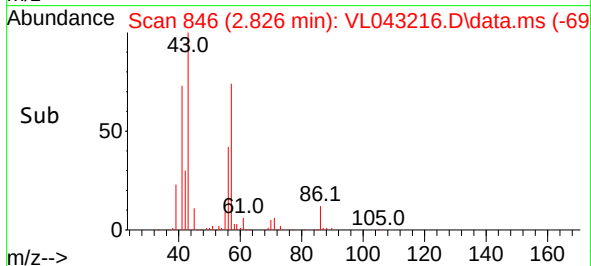
Instrument :
MSVOA_L
ClientSampleId :
IA2



Tgt Ion: 57 Resp: 32285
Ion Ratio Lower Upper
57 100
41 102.0 74.6 111.8
43 196.1 179.0 268.4
56 57.7 42.3 63.5

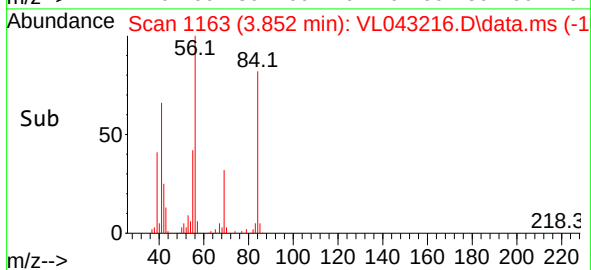
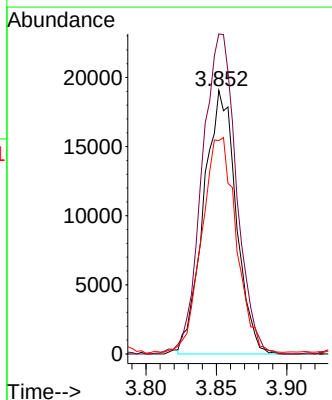
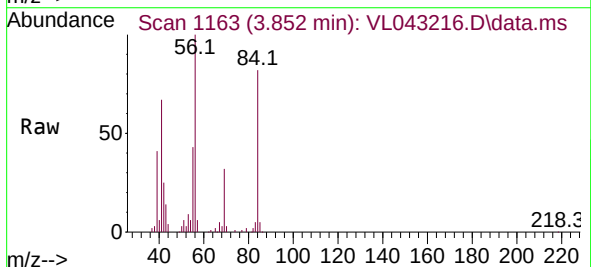
Manual Integrations
APPROVED

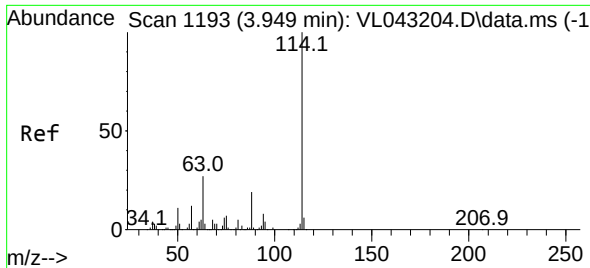
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#30
Cyclohexane
Concen: 2.765 ppbv
RT: 3.852 min Scan# 1163
Delta R.T. 0.006 min
Lab File: VL043216.D
Acq: 18 Nov 2025 17:06

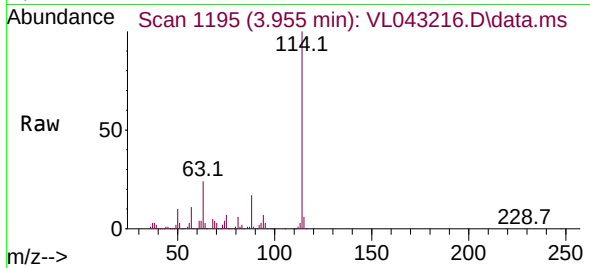
Tgt Ion: 84 Resp: 30559
Ion Ratio Lower Upper
84 100
56 128.4 104.7 157.1
41 85.5 69.0 103.6





#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.955 min Scan# 1195
Delta R.T. 0.006 min
Lab File: VL043216.D
Acq: 18 Nov 2025 17:06

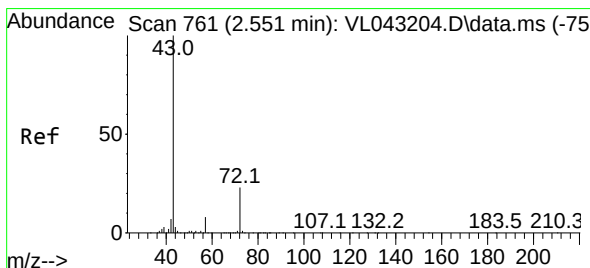
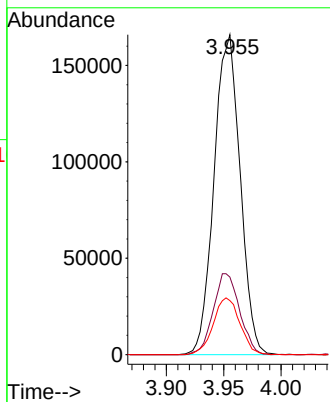
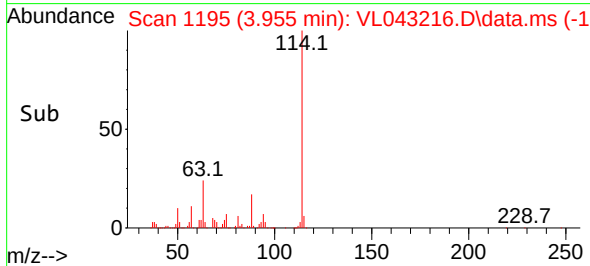
Instrument :
MSVOA_L
ClientSampleId :
IA2



Tgt Ion:114 Resp: 262303
Ion Ratio Lower Upper
114 100
63 25.7 21.0 31.6
88 18.1 14.9 22.3

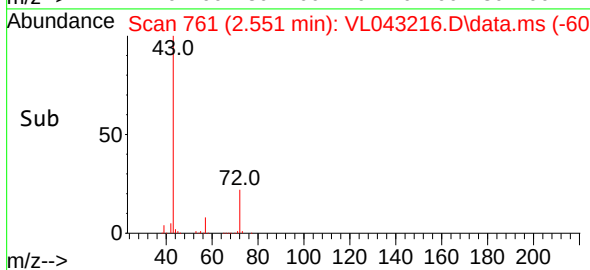
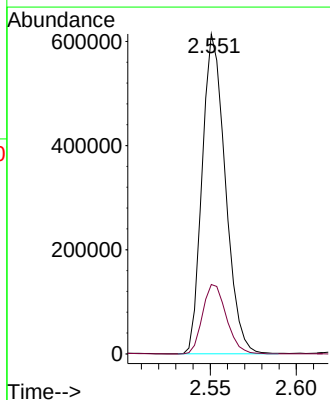
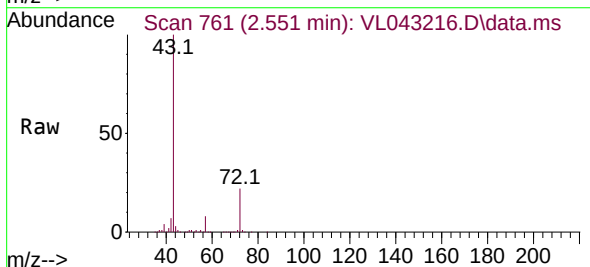
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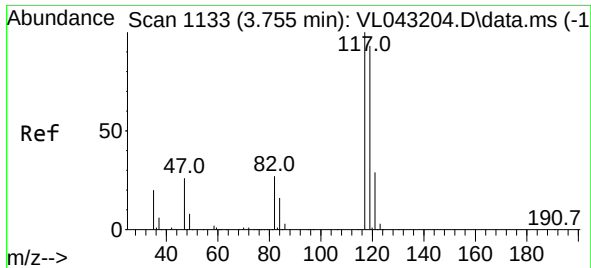
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#34
2-Butanone
Concen: 31.082 ppbv
RT: 2.551 min Scan# 761
Delta R.T. -0.000 min
Lab File: VL043216.D
Acq: 18 Nov 2025 17:06

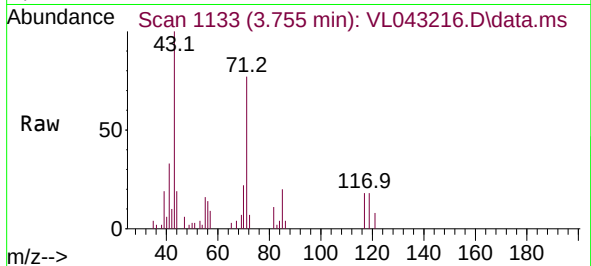
Tgt Ion: 43 Resp: 575504
Ion Ratio Lower Upper
43 100
72 22.3 18.1 27.1





#35
Carbon Tetrachloride
Concen: 0.057 ppbv m
RT: 3.755 min Scan# 1133
Delta R.T. -0.000 min
Lab File: VL043216.D
Acq: 18 Nov 2025 17:06

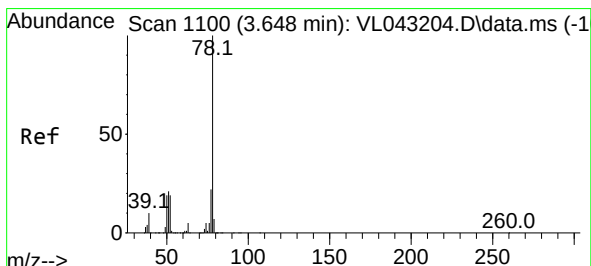
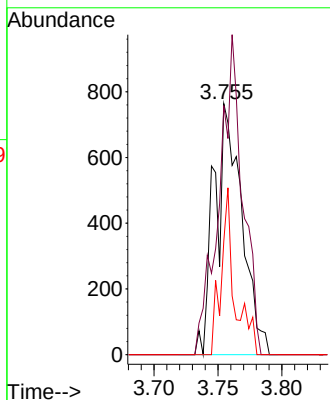
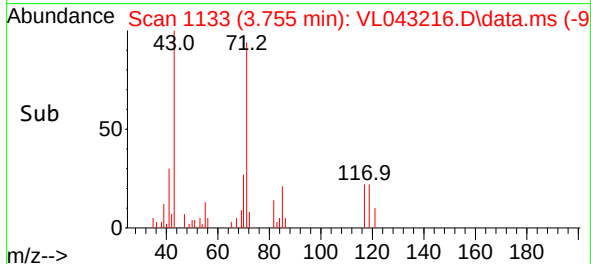
Instrument :
MSVOA_L
ClientSampleId :
IA2



Tgt Ion: 117 Resp: 1135
Ion Ratio Lower Upper
117 100
119 99.2 74.6 112.0
121 45.2 23.2 34.8

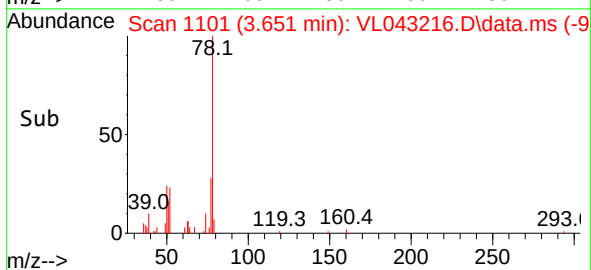
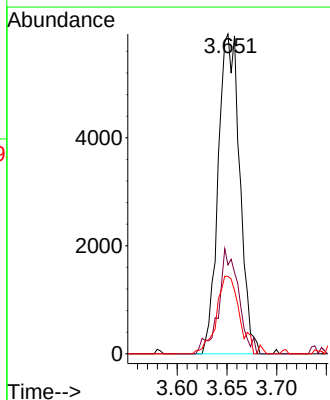
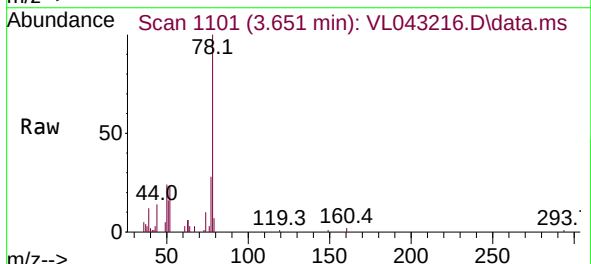
Manual Integrations
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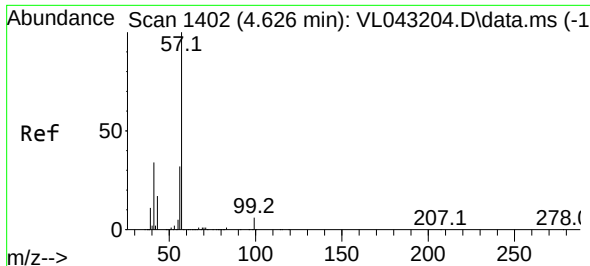
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#36
Benzene
Concen: 0.354 ppbv m
RT: 3.651 min Scan# 1101
Delta R.T. 0.003 min
Lab File: VL043216.D
Acq: 18 Nov 2025 17:06

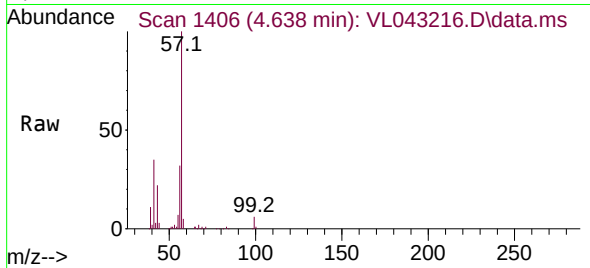
Tgt Ion: 78 Resp: 8905
Ion Ratio Lower Upper
78 100
77 27.8 17.5 26.3#
50 24.2 15.5 23.3#





#44
2,2,4-Trimethylpentane
Concen: 1.744 ppbv
RT: 4.638 min Scan# 1402
Delta R.T. 0.013 min
Lab File: VL043216.D
Acq: 18 Nov 2025 17:06

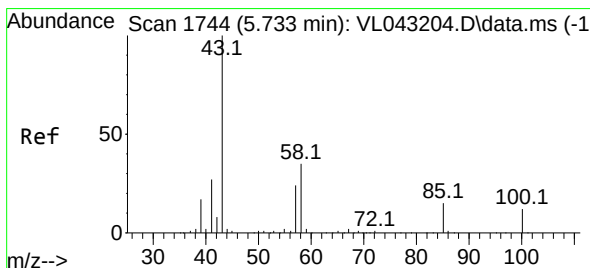
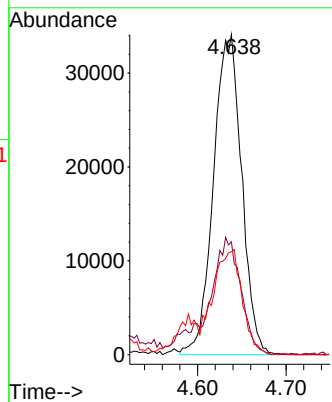
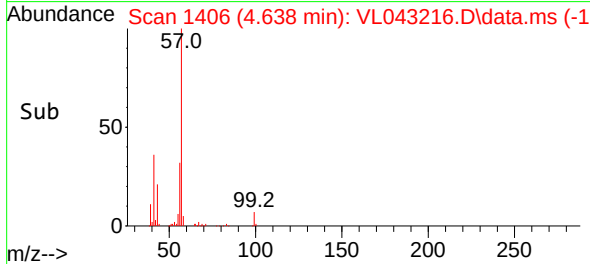
Instrument :
MSVOA_L
ClientSampleId :
IA2



Tgt Ion: 57 Resp: 75256
Ion Ratio Lower Upper
57 100
41 43.2 28.0 42.0
56 42.9 25.6 38.4

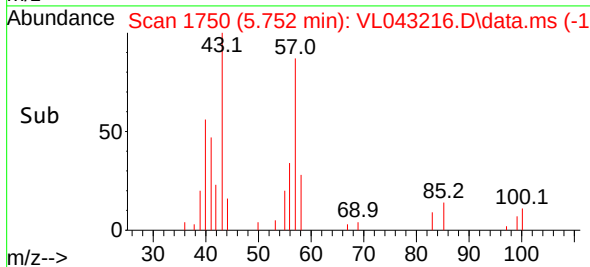
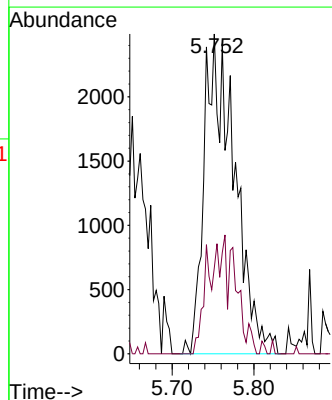
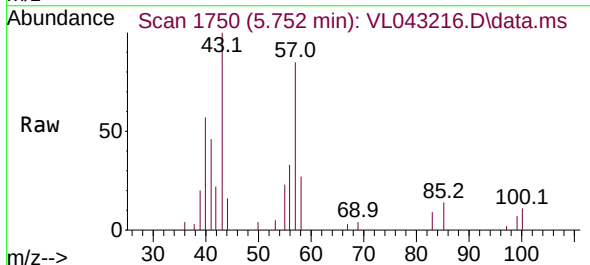
Manual Integrations
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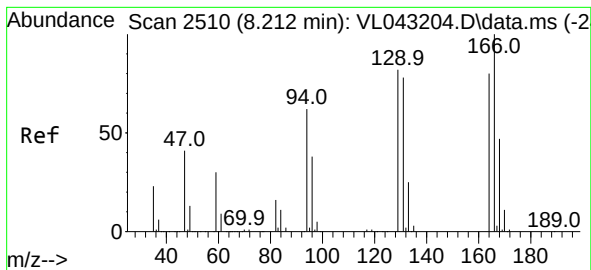
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#50
4-Methyl-2-Pentanone
Concen: 0.245 ppbv m
RT: 5.752 min Scan# 1750
Delta R.T. 0.019 min
Lab File: VL043216.D
Acq: 18 Nov 2025 17:06

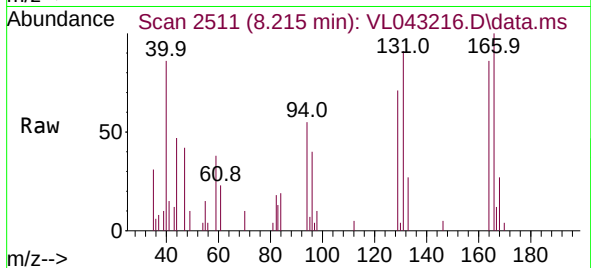
Tgt Ion: 43 Resp: 6381
Ion Ratio Lower Upper
43 100
58 0.0 28.4 42.6





#52
Tetrachloroethene
Concen: 0.231 ppbv m
RT: 8.215 min Scan# 2114
Delta R.T. 0.003 min
Lab File: VL043216.D
Acq: 18 Nov 2025 17:06

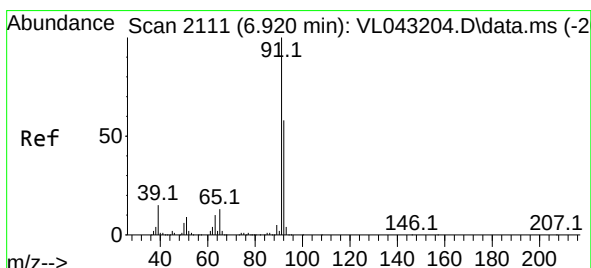
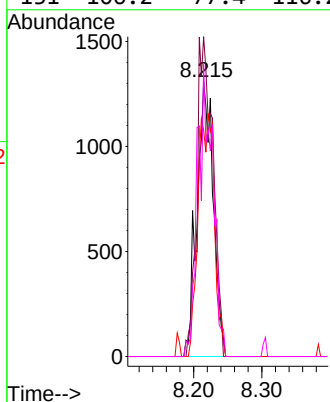
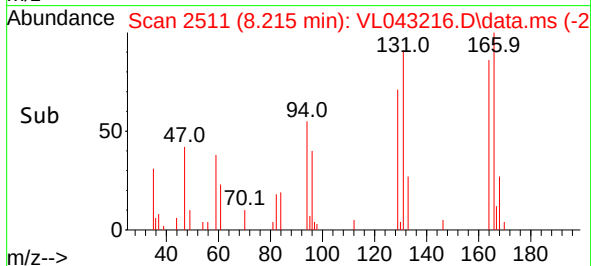
Instrument :
MSVOA_L
ClientSampleId :
IA2



Tgt Ion:164 Resp: 2163
Ion Ratio Lower Upper
164 100
166 116.3 99.4 149.2
129 82.3 81.8 122.8
131 106.2 77.4 116.2

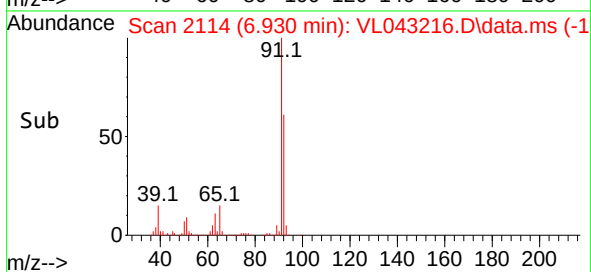
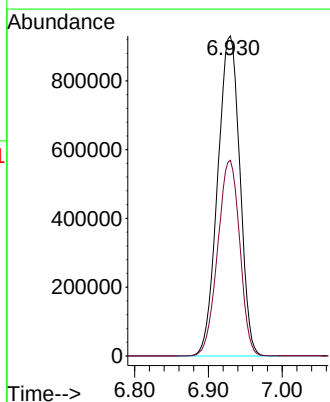
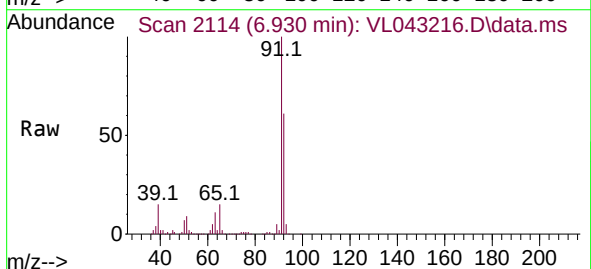
Manual Integrations
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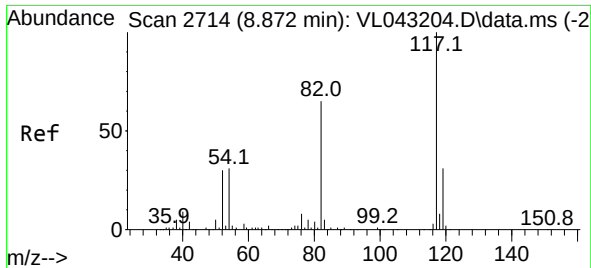
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#53
Toluene
Concen: 65.288 ppbv
RT: 6.930 min Scan# 2114
Delta R.T. 0.009 min
Lab File: VL043216.D
Acq: 18 Nov 2025 17:06

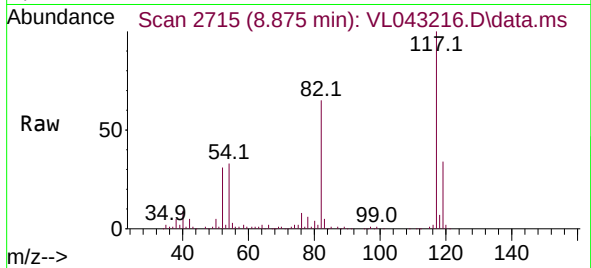
Tgt Ion: 91 Resp: 1941988
Ion Ratio Lower Upper
91 100
92 60.8 47.4 71.0





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.875 min Scan# 2715
Delta R.T. 0.003 min
Lab File: VL043216.D
Acq: 18 Nov 2025 17:06

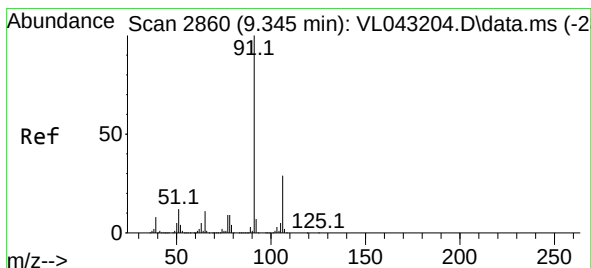
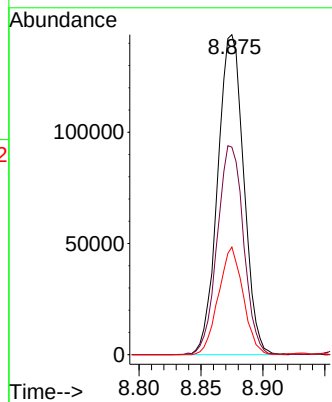
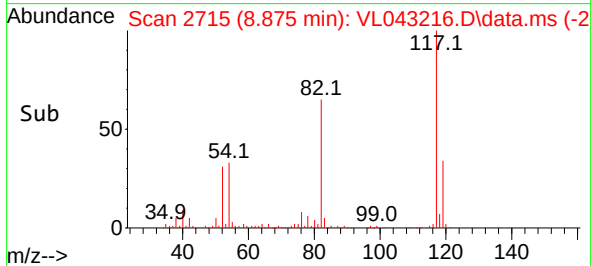
Instrument :
MSVOA_L
ClientSampleId :
IA2



Tgt Ion:117 Resp: 209925
Ion Ratio Lower Upper
117 100
82 66.0 56.1 84.1
119 31.9 25.0 37.6

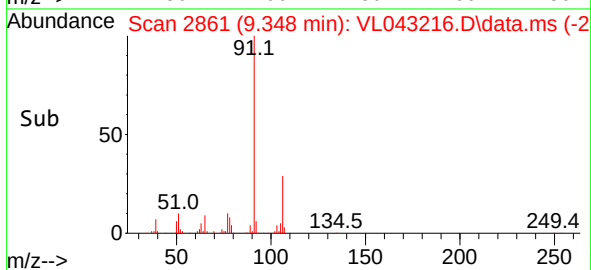
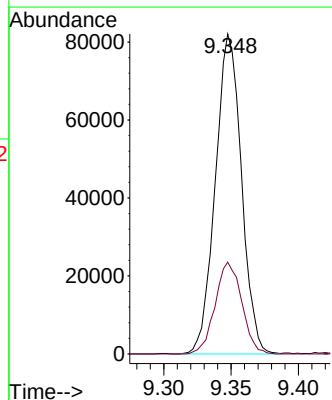
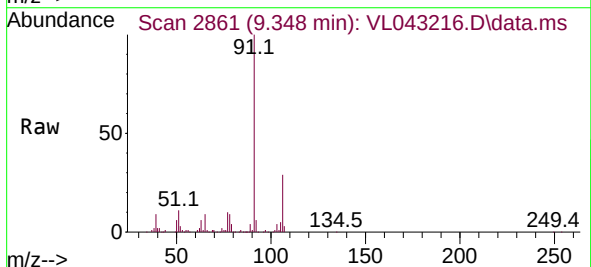
Manual Integrations
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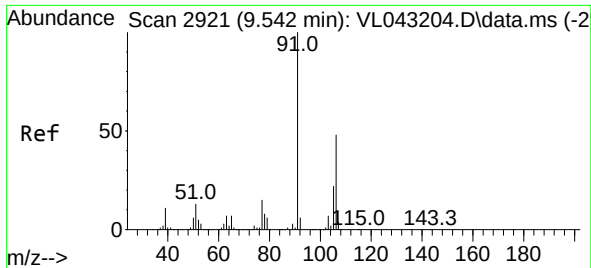
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#58
Ethyl Benzene
Concen: 2.735 ppbv
RT: 9.348 min Scan# 2861
Delta R.T. 0.003 min
Lab File: VL043216.D
Acq: 18 Nov 2025 17:06

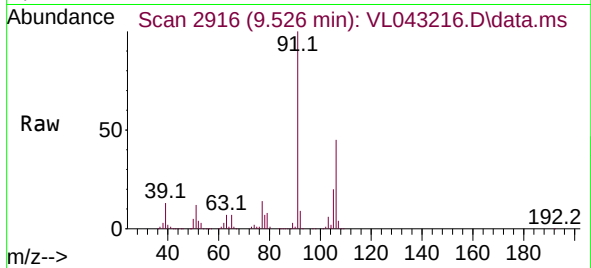
Tgt Ion: 91 Resp: 110526
Ion Ratio Lower Upper
91 100
106 28.7 22.8 34.2





#59
m/p-Xylene
Concen: 9.088 ppbv
RT: 9.526 min Scan# 2916
Delta R.T. -0.017 min
Lab File: VL043216.D
Acq: 18 Nov 2025 17:06

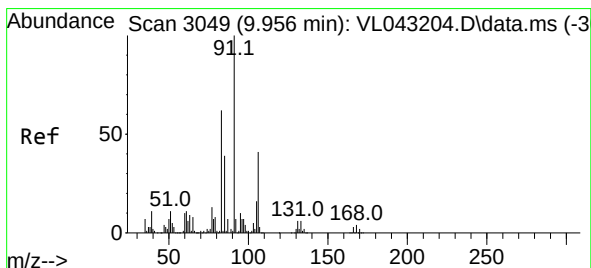
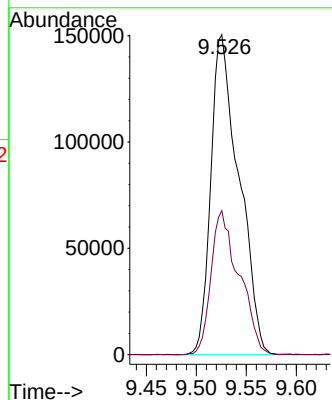
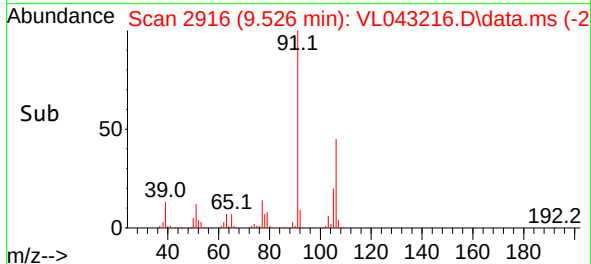
Instrument :
MSVOA_L
ClientSampleId :
IA2



Tgt Ion: 91 Resp: 294403
Ion Ratio Lower Upper
91 100
106 44.9 36.1 54.1

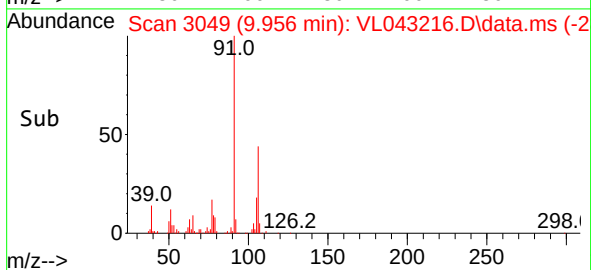
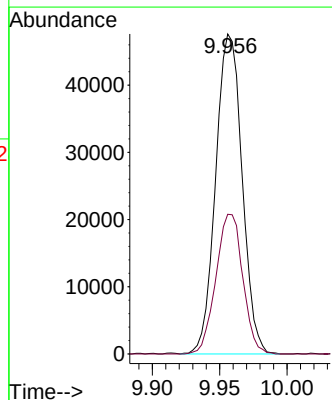
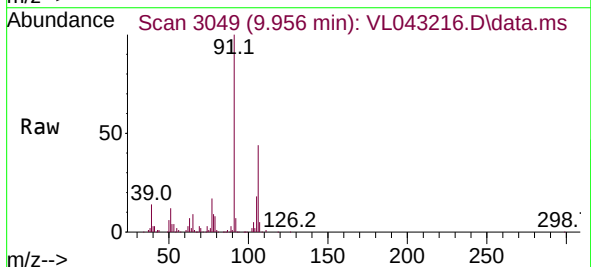
Manual Integrations
APPROVED

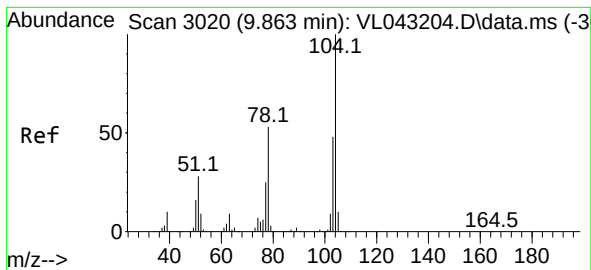
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#60
o-Xylene
Concen: 2.007 ppbv
RT: 9.956 min Scan# 3049
Delta R.T. -0.000 min
Lab File: VL043216.D
Acq: 18 Nov 2025 17:06

Tgt Ion: 91 Resp: 64946
Ion Ratio Lower Upper
91 100
106 44.3 20.9 62.8





#61

Styrene

Concen: 0.116 ppbv m

RT: 9.862 min Scan# 3020

Delta R.T. -0.000 min

Lab File: VL043216.D

Acq: 18 Nov 2025 17:06

Instrument :

MSVOA_L

ClientSampleId :

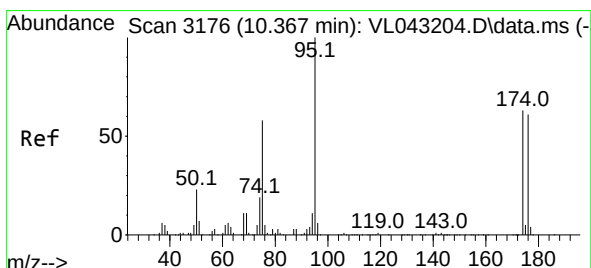
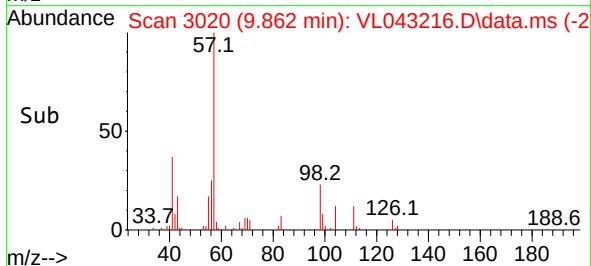
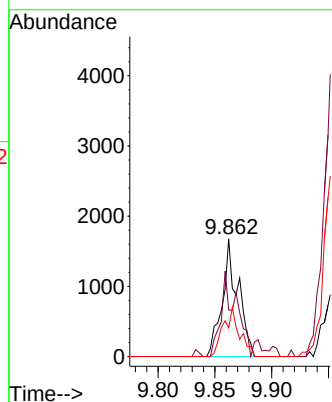
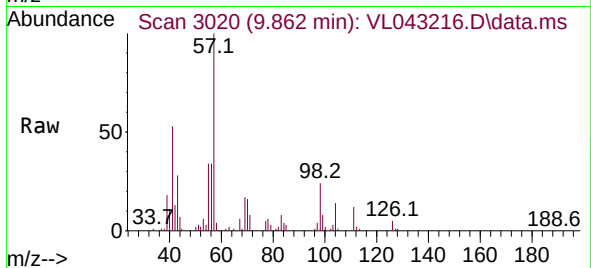
IA2

Tgt Ion:	104	Resp:	1636
Ion Ratio	Lower	Upper	
104	100		
78	78.9	42.1	63.1
103	42.4	37.2	55.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#68

1-Bromo-4-Fluorobenzene

Concen: 9.961 ppbv

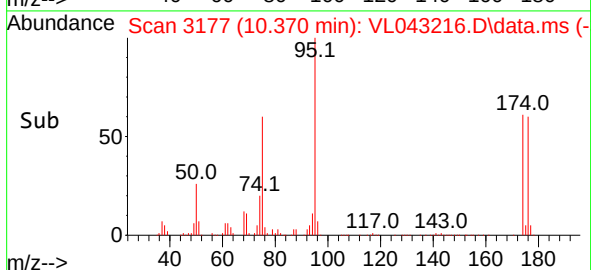
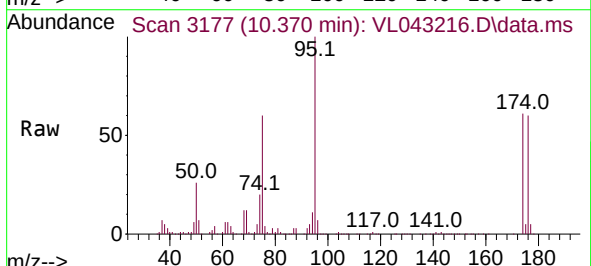
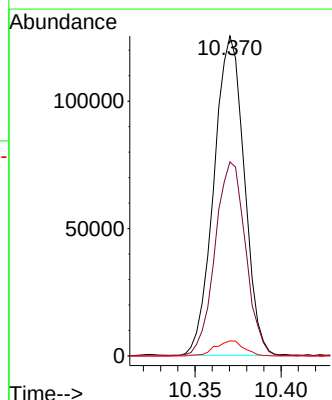
RT: 10.370 min Scan# 3177

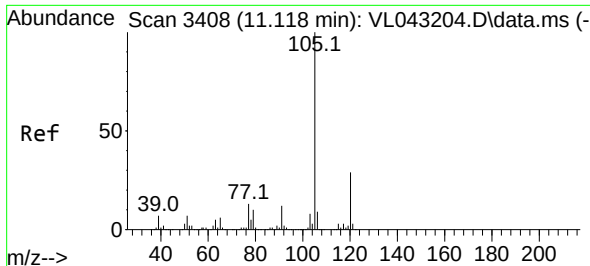
Delta R.T. 0.003 min

Lab File: VL043216.D

Acq: 18 Nov 2025 17:06

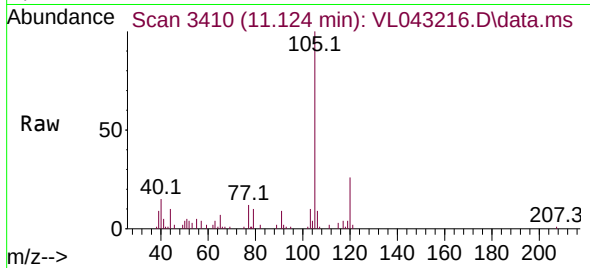
Tgt Ion:	95	Resp:	153270
Ion Ratio	Lower	Upper	
95	100		
174	61.4	50.2	75.2
175	4.5	4.1	6.1





#72
4-Ethyltoluene
Concen: 0.169 ppbv
RT: 11.124 min Scan# 3410
Delta R.T. 0.006 min
Lab File: VL043216.D
Acq: 18 Nov 2025 17:06

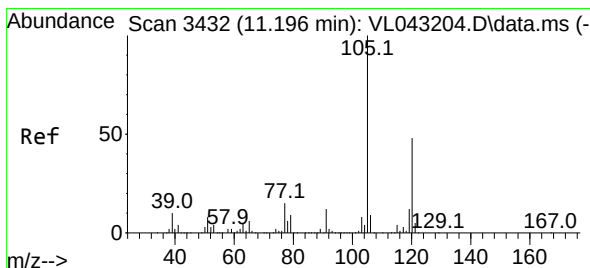
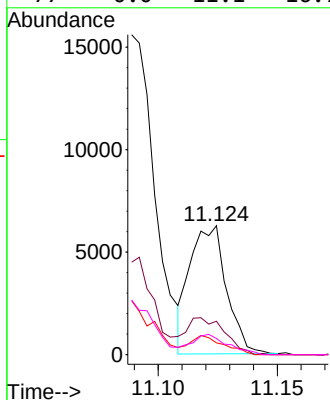
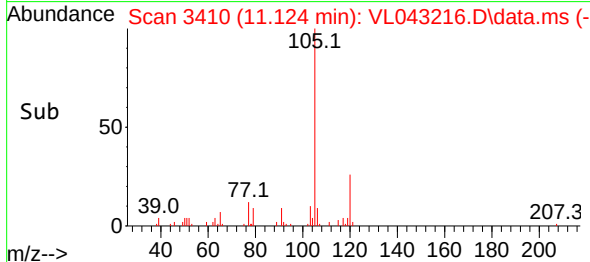
Instrument :
MSVOA_L
ClientSampleId :
IA2



Tgt Ion:105 Resp: 6660
Ion Ratio Lower Upper
105 100
120 0.0 23.8 35.8
91 0.0 10.3 15.5
77 0.0 11.1 16.7

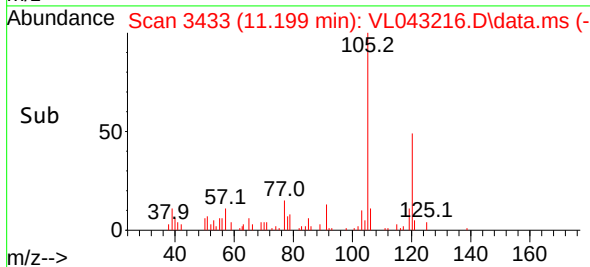
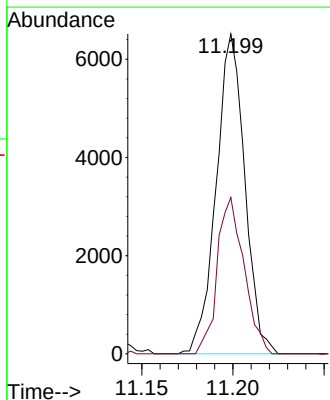
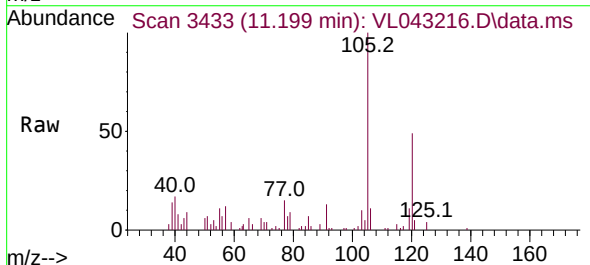
Manual Integrations
APPROVED

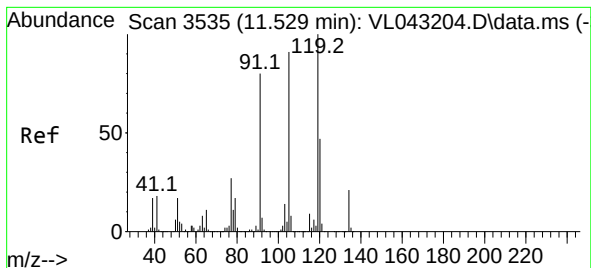
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#73
1,3,5-Trimethylbenzene
Concen: 0.215 ppbv
RT: 11.199 min Scan# 3433
Delta R.T. 0.003 min
Lab File: VL043216.D
Acq: 18 Nov 2025 17:06

Tgt Ion:105 Resp: 7120
Ion Ratio Lower Upper
105 100
120 48.9 38.6 57.8





#74

1,2,4-Trimethylbenzene

Concen: 0.711 ppbv

RT: 11.532 min Scan# 3535

Delta R.T. 0.003 min

Lab File: VL043216.D

Acq: 18 Nov 2025 17:06

Instrument :

MSVOA_L

ClientSampleId :

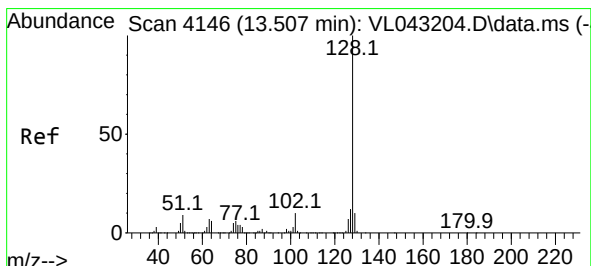
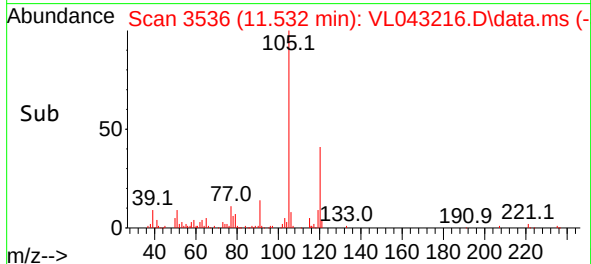
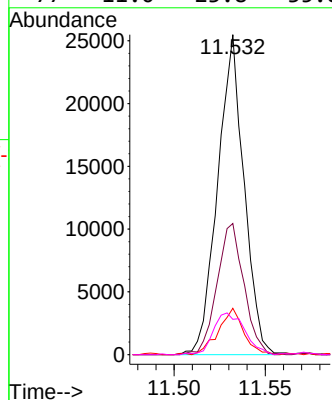
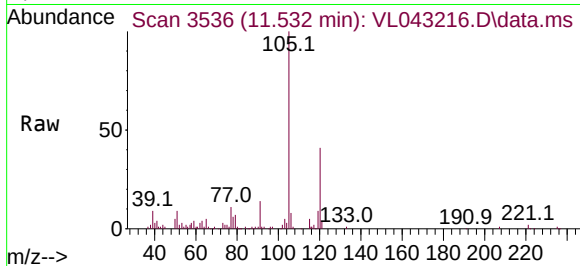
IA2

Tgt Ion:	105	Resp:	2565
Ion Ratio	Lower	Upper	
105	100		
120	40.7	41.7	62.5
91	14.5	70.0	105.0
77	11.0	23.8	35.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#79

Naphthalene

Concen: 0.103 ppbv m

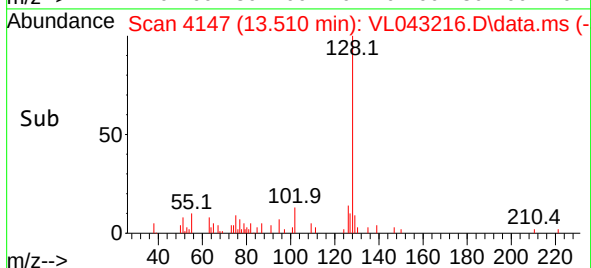
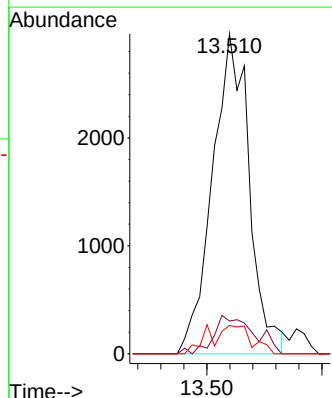
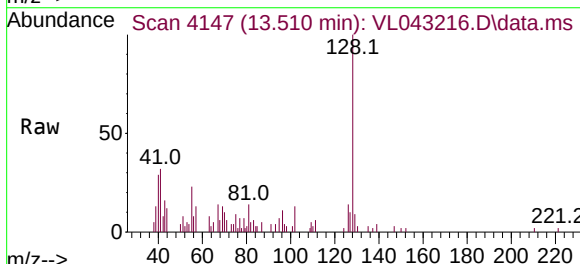
RT: 13.510 min Scan# 4147

Delta R.T. 0.003 min

Lab File: VL043216.D

Acq: 18 Nov 2025 17:06

Tgt Ion:	128	Resp:	3287
Ion Ratio	Lower	Upper	
128	100		
127	10.3	9.9	14.9
129	8.9	8.4	12.6



Report of Analysis

Client: GFE LLC
Project: 316 TO 326 WESTBURY AVE
Client Sample ID: IA2DL
Lab Sample ID: Q3651-04DL
Analytical Method: TO-15
Sample Wt/Vol: 400 mL

Date Collected: 11/11/25
Date Received: 11/14/25
SDG No.: Q3651
Matrix: Air
Test: VOCMS Group2

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qua.	DF	MDL ug/m3	LOQ / CRQL ug/m3	Date Ana.	BatchID
TARGETS									
75-01-4	Vinyl Chloride	0.25	0.64	UD	10	0.64	0.77	11/19/25 00:13	VL111825
142-82-5	Heptane	2.60	10.7	JD	10	6.97	20.5	11/19/25 00:13	VL111825
75-34-3	1,1-Dichloroethane	1.30	5.26	UD	10	5.26	20.2	11/19/25 00:13	VL111825
110-82-7	Cyclohexane	2.60	8.95	JD	10	7.57	17.2	11/19/25 00:13	VL111825
156-59-2	cis-1,2-Dichloroethene	0.99	3.93	UD	10	3.93	19.8	11/19/25 00:13	VL111825
71-55-6	1,1,1-Trichloroethane	0.16	0.87	UD	10	0.87	1.64	11/19/25 00:13	VL111825
540-84-1	2,2,4-Trimethylpentane	1.70	7.94	JD	10	6.54	23.4	11/19/25 00:13	VL111825
71-43-2	Benzene	0.79	2.52	UD	10	2.52	16.0	11/19/25 00:13	VL111825
79-01-6	Trichloroethene	0.24	1.29	UD	10	1.29	1.61	11/19/25 00:13	VL111825
108-88-3	Toluene	71.7	270	D	10	6.03	18.8	11/19/25 00:13	VL111825
127-18-4	Tetrachloroethene	0.15	1.02	UD	10	1.02	2.03	11/19/25 00:13	VL111825
100-41-4	Ethyl Benzene	2.40	10.4	JD	10	8.25	21.7	11/19/25 00:13	VL111825
179601-23-1	m/p-Xylene	8.40	36.5	JD	10	17.8	43.4	11/19/25 00:13	VL111825
95-47-6	o-Xylene	2.10	9.12	UD	10	9.12	21.7	11/19/25 00:13	VL111825
108-67-8	1,3,5-Trimethylbenzene	1.80	8.85	UD	10	8.85	24.6	11/19/25 00:13	VL111825
95-63-6	1,2,4-Trimethylbenzene	1.80	8.85	UD	10	8.85	24.6	11/19/25 00:13	VL111825
91-20-3	Naphthalene	0.13	0.68	UD	10	0.68	5.24	11/19/25 00:13	VL111825
110-54-3	Hexane	2.90	10.2	JD	10	5.64	17.6	11/19/25 00:13	VL111825

SURROGATES

460-00-4	1-Bromo-4-Fluorobenzene	10.4		65 - 135	104%	SPK: 10
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INTERNAL STANDARDS

	Area Count	
74-97-5	Bromochloromethane	91900
540-36-3	1,4-Difluorobenzene	239000
3114-55-4	Chlorobenzene-d5	187000

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\VL111825\
 Data File : VL043229.D
 Acq On : 19 Nov 2025 00:13
 Operator : SY/MD
 Sample : Q3651-04DL 10X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA2DL

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 11/19/2025
 Supervised By :Mahesh Dadoda 11/19/2025

Quant Time: Nov 19 01:42:49 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M

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

QLast Update : Wed Nov 19 01:11:25 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.787	49	91882	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.955	114	238827	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.875	117	187305	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.370	95	142715	10.395	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.900%
Target Compounds						
					Qvalue	
9) Propene	1.489	41	2928	0.541	ppbv #	1
10) Heptane	4.978	43	4124m	0.256	ppbv	
11) Trichlorofluoromethane	1.877	101	1745	0.139	ppbv #	83
13) Ethanol	1.722	45	4361m	2.292	ppbv	
15) Acetone	1.835	43	26258	2.057	ppbv	99
19) Isopropyl Alcohol	1.887	45	15499	2.149	ppbv	94
20) Methylene Chloride	2.062	84	111175	31.222	ppbv	96
26) Hexane	2.826	57	3488	0.289	ppbv #	14
30) Cyclohexane	3.855	84	2591m	0.256	ppbv	
34) 2-Butanone	2.557	43	56206	3.334	ppbv	99
44) 2,2,4-Trimethylpentane	4.635	57	6686m	0.170	ppbv	
53) Toluene	6.926	91	194223m	7.171	ppbv	
58) Ethyl Benzene	9.354	91	8676	0.241	ppbv #	86
59) m/p-Xylene	9.526	91	24225m	0.838	ppbv	
60) o-Xylene	9.962	91	5207	0.180	ppbv	100

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

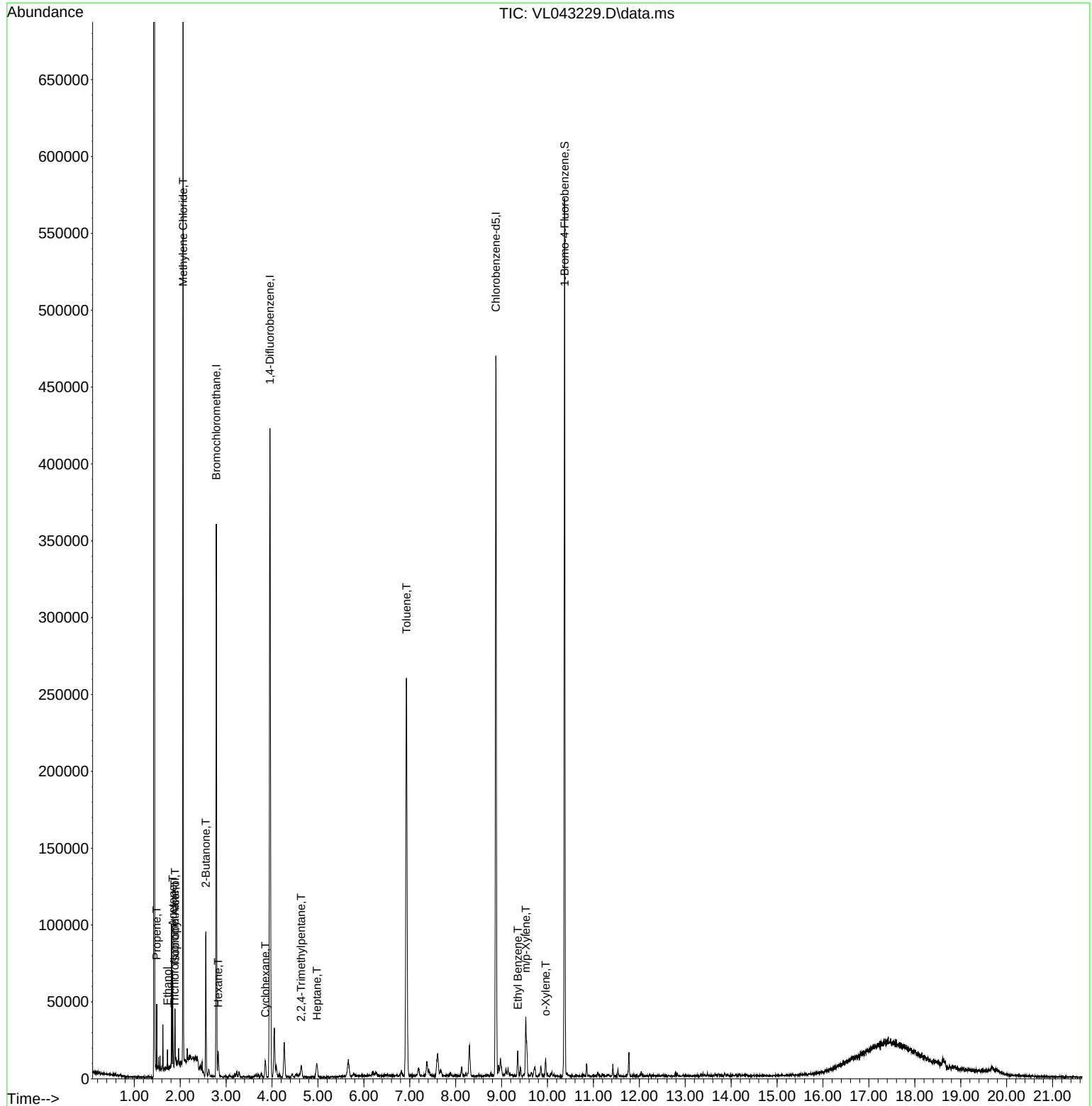
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111825\
Data File : VL043229.D
Acq On : 19 Nov 2025 00:13
Operator : SY/MD
Sample : Q3651-04DL 10X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

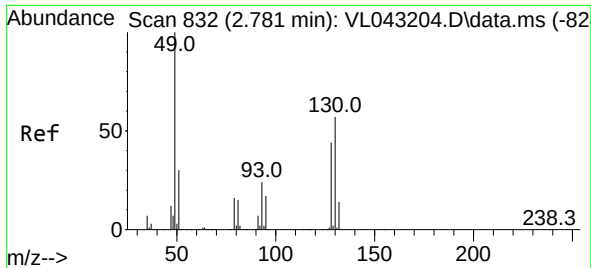
Instrument :
MSVOA_L
ClientSampleId :
IA2DL

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025

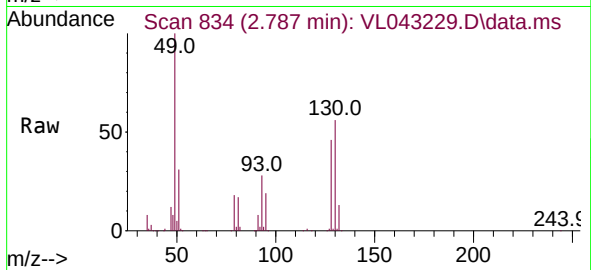
Quant Time: Nov 19 01:42:49 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Wed Nov 19 01:11:25 2025
Response via : Initial Calibration





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 832
Delta R.T. 0.006 min
Lab File: VL043229.D
Acq: 19 Nov 2025 00:13

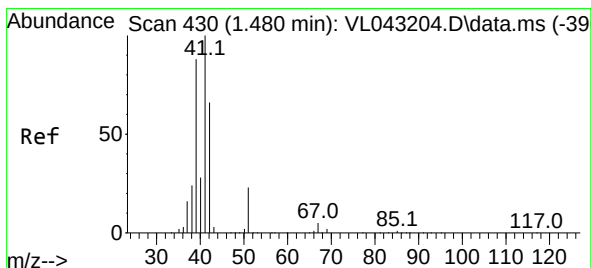
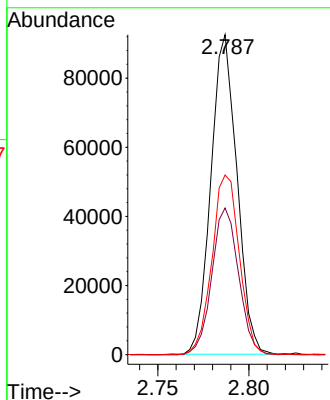
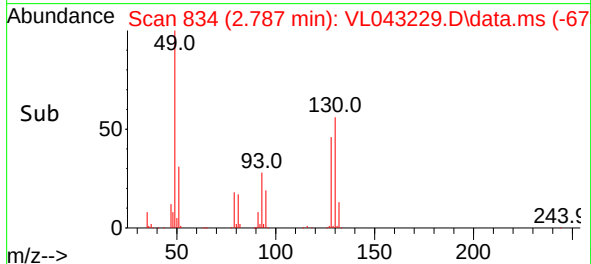
Instrument :
MSVOA_L
ClientSampleId :
IA2DL



Tgt Ion: 49 Resp: 91882
Ion Ratio Lower Upper
49 100
128 47.1 23.0 69.0
130 59.2 29.9 89.7

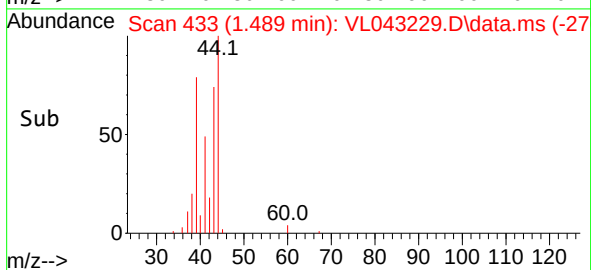
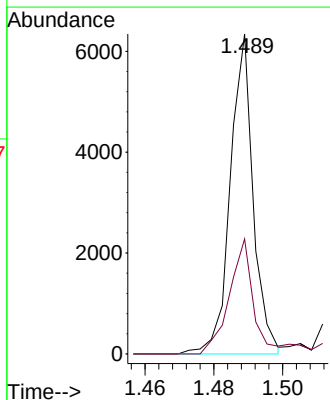
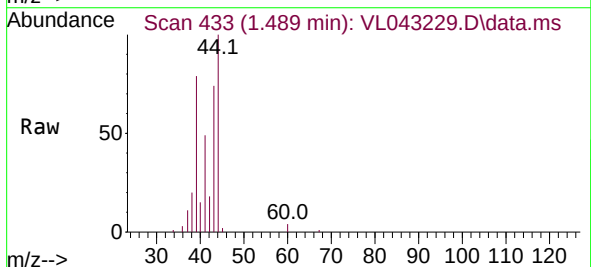
Manual Integrations
APPROVED

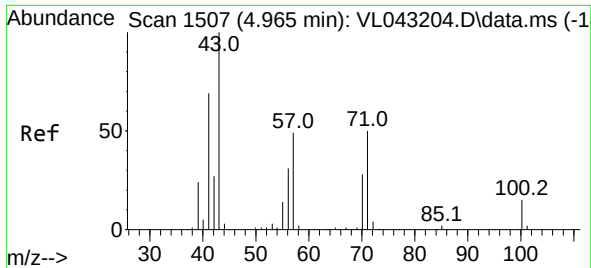
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#9
Propene
Concen: 0.541 ppbv
RT: 1.489 min Scan# 433
Delta R.T. 0.009 min
Lab File: VL043229.D
Acq: 19 Nov 2025 00:13

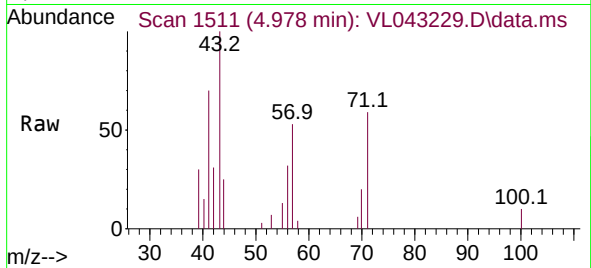
Tgt Ion: 41 Resp: 2928
Ion Ratio Lower Upper
41 100
42 41.7 3.7 5.5#





#10
Heptane
Concen: 0.256 ppbv m
RT: 4.978 min Scan# 11
Delta R.T. 0.013 min
Lab File: VL043229.D
Acq: 19 Nov 2025 00:13

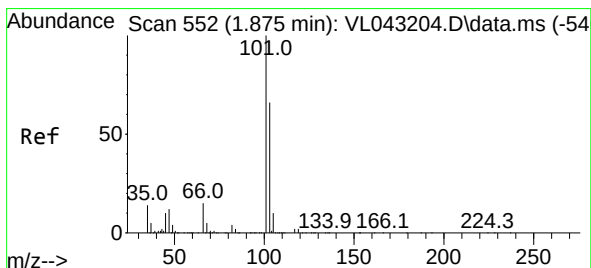
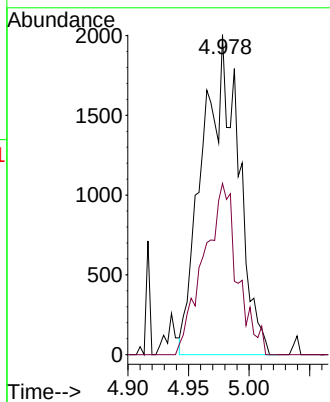
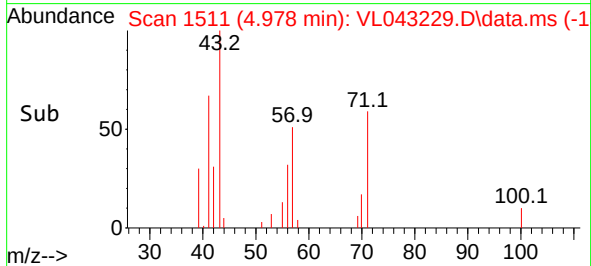
Instrument :
MSVOA_L
ClientSampleId :
IA2DL



Tgt Ion: 43 Resp: 4124
Ion Ratio Lower Upper
43 100
57 50.3 39.7 59.5

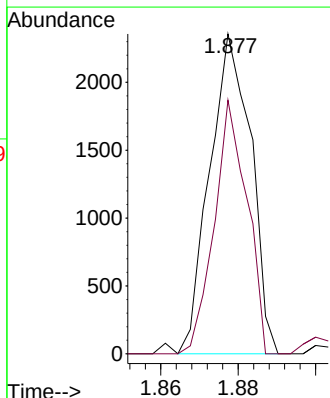
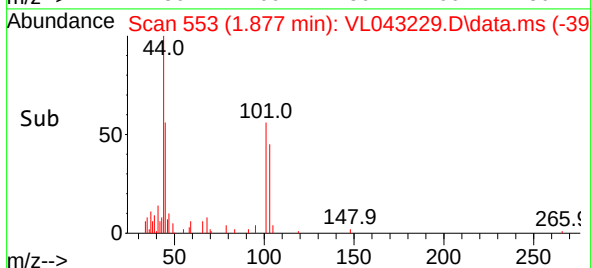
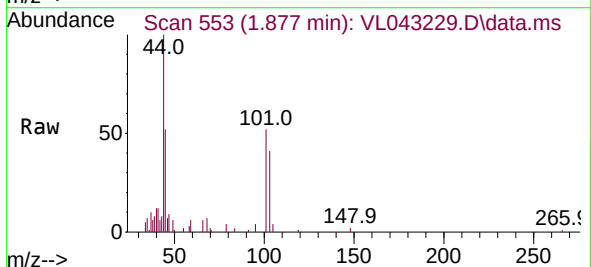
Manual Integrations
APPROVED

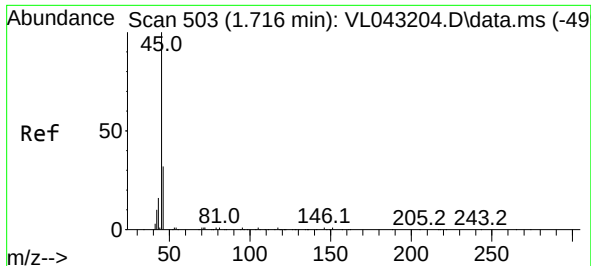
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#11
Trichlorofluoromethane
Concen: 0.139 ppbv
RT: 1.877 min Scan# 553
Delta R.T. 0.003 min
Lab File: VL043229.D
Acq: 19 Nov 2025 00:13

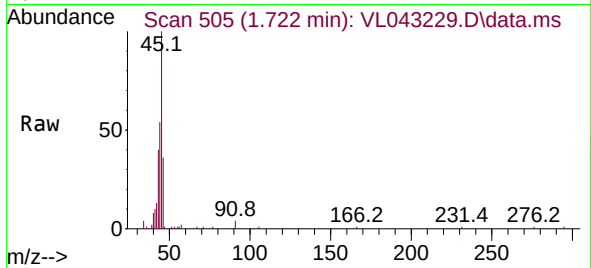
Tgt Ion:101 Resp: 1745
Ion Ratio Lower Upper
101 100
103 79.3 52.6 79.0#





#13
Ethanol
Concen: 2.292 ppbv m
RT: 1.722 min Scan# 50
Delta R.T. 0.006 min
Lab File: VL043229.D
Acq: 19 Nov 2025 00:13

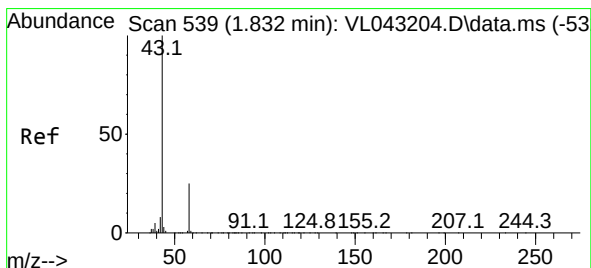
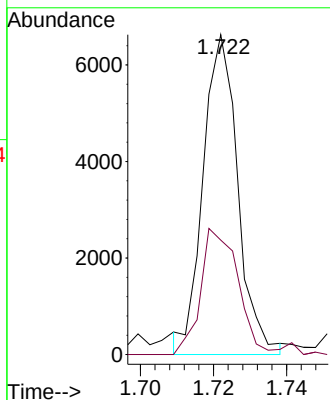
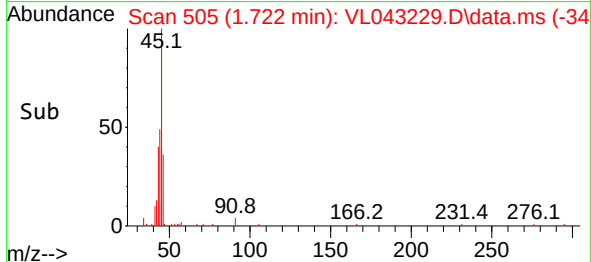
Instrument :
MSVOA_L
ClientSampleId :
IA2DL



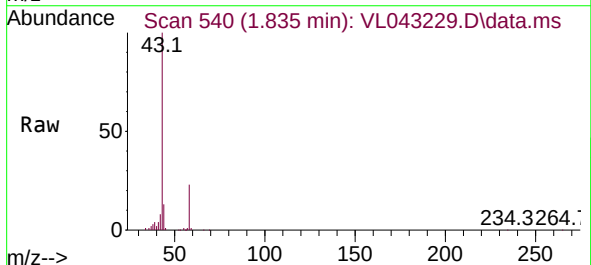
Tgt Ion: 45 Resp: 436
Ion Ratio Lower Upper
45 100
46 0.0 15.0 59.8

Manual Integrations
APPROVED

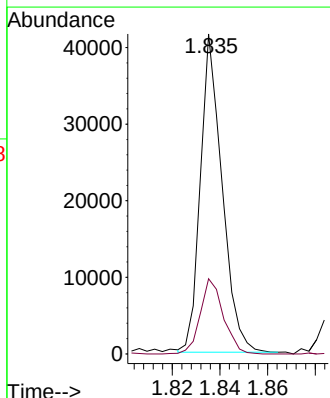
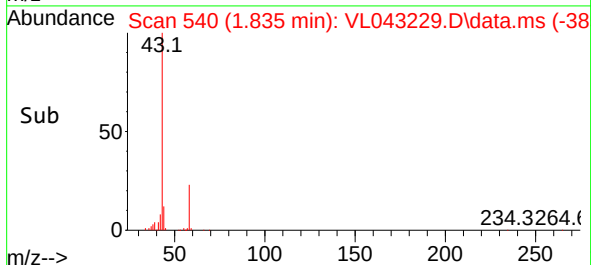
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025

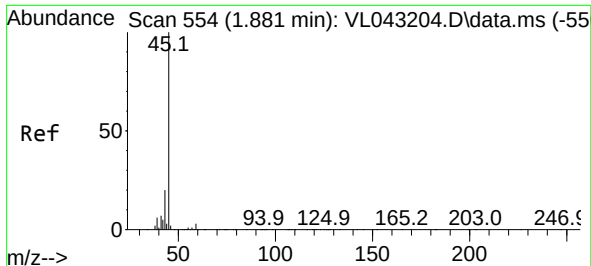


#15
Acetone
Concen: 2.057 ppbv
RT: 1.835 min Scan# 540
Delta R.T. 0.003 min
Lab File: VL043229.D
Acq: 19 Nov 2025 00:13



Tgt Ion: 43 Resp: 26258
Ion Ratio Lower Upper
43 100
58 25.3 20.7 31.1





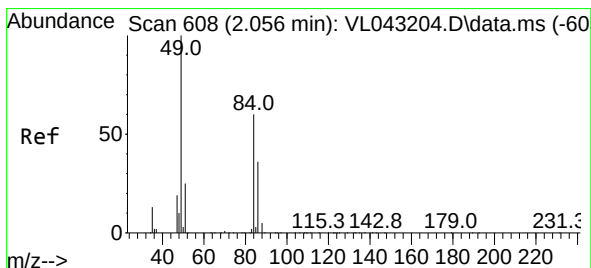
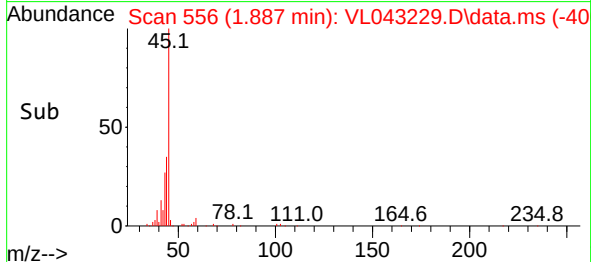
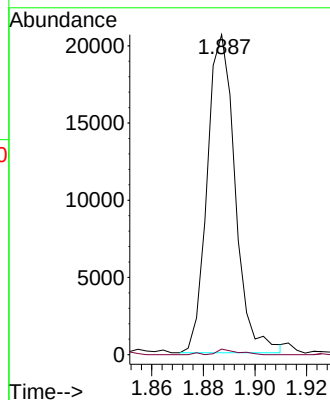
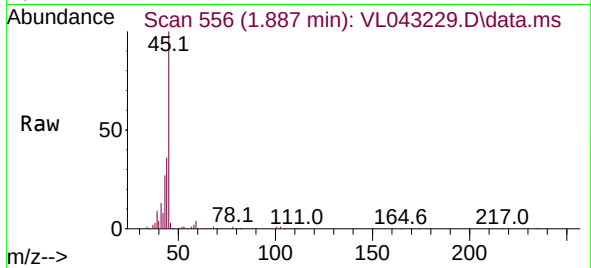
#19
Isopropyl Alcohol
Concen: 2.149 ppbv
RT: 1.887 min Scan# 511
Delta R.T. 0.006 min
Lab File: VL043229.D
Acq: 19 Nov 2025 00:13

Instrument :
MSVOA_L
ClientSampleId :
IA2DL

Tgt Ion: 45 Resp: 15499
Ion Ratio Lower Upper
45 100
58 42.8 31.3 46.9

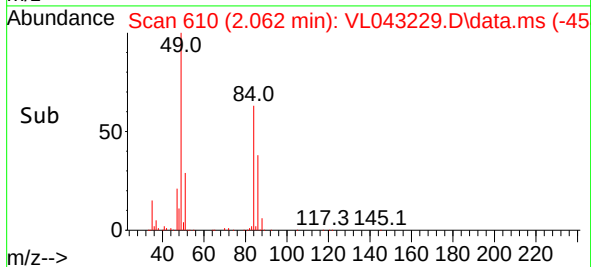
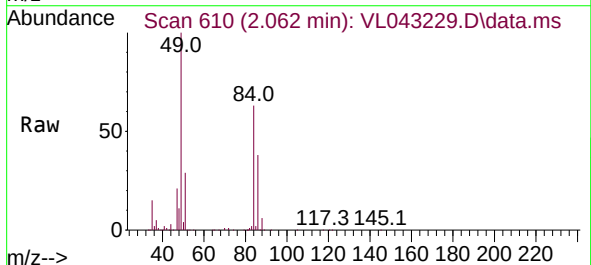
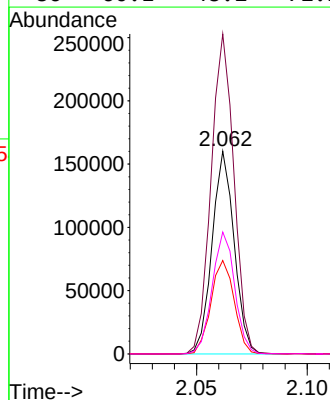
Manual Integrations
APPROVED

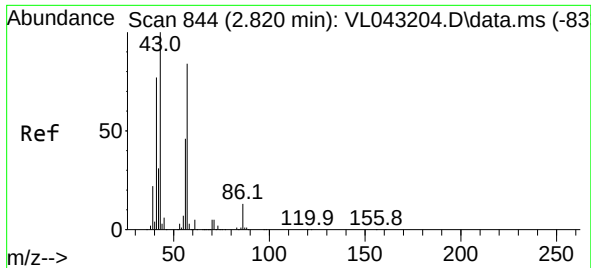
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#20
Methylene Chloride
Concen: 31.222 ppbv
RT: 2.062 min Scan# 610
Delta R.T. 0.006 min
Lab File: VL043229.D
Acq: 19 Nov 2025 00:13

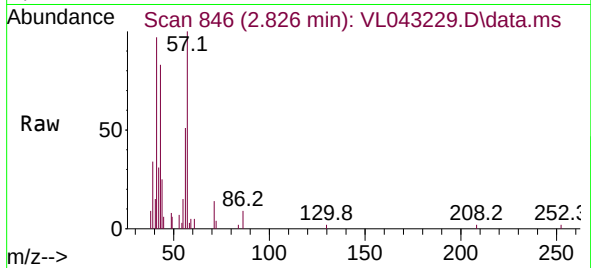
Tgt Ion: 84 Resp: 111175
Ion Ratio Lower Upper
84 100
49 158.0 132.9 199.3
51 46.1 34.8 52.2
86 60.1 48.2 72.2





#26
Hexane
Concen: 0.289 ppbv
RT: 2.826 min Scan# 844
Delta R.T. 0.006 min
Lab File: VL043229.D
Acq: 19 Nov 2025 00:13

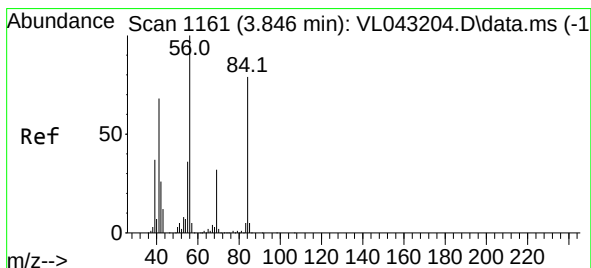
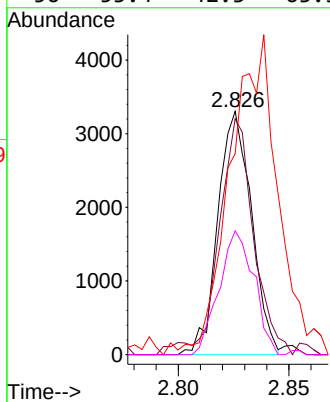
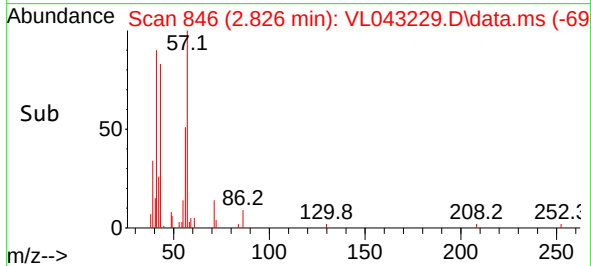
Instrument :
MSVOA_L
ClientSampleId :
IA2DL



Tgt Ion: 57 Resp: 3488
Ion Ratio Lower Upper
57 100
41 102.3 74.6 111.8
43 0.0 179.0 268.4
56 53.4 42.3 63.5

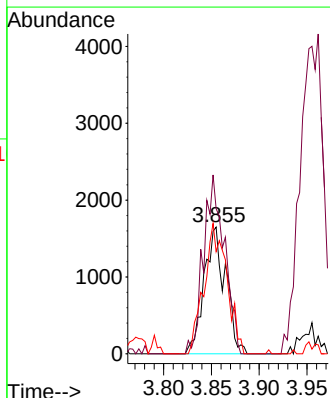
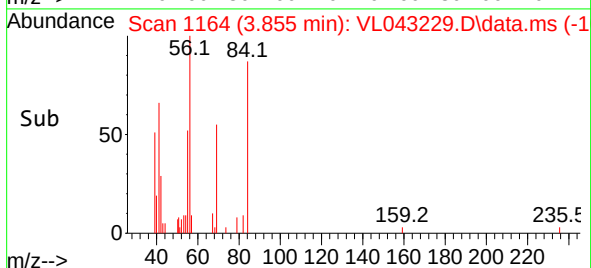
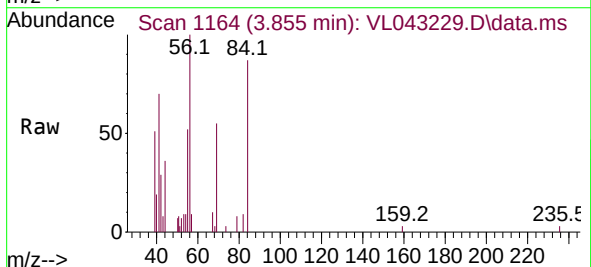
Manual Integrations
APPROVED

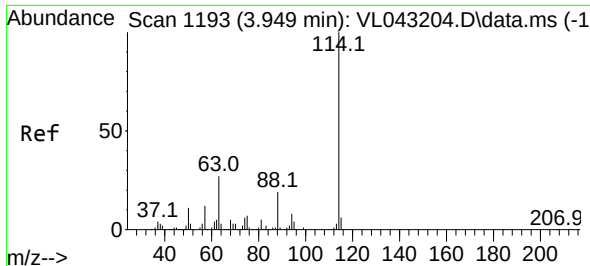
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#30
Cyclohexane
Concen: 0.256 ppbv m
RT: 3.855 min Scan# 1164
Delta R.T. 0.009 min
Lab File: VL043229.D
Acq: 19 Nov 2025 00:13

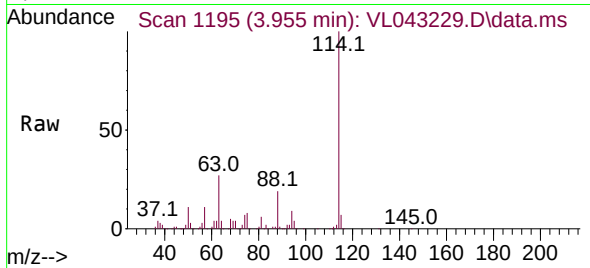
Tgt Ion: 84 Resp: 2591
Ion Ratio Lower Upper
84 100
56 137.1 104.7 157.1
41 108.1 69.0 103.6





#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.955 min Scan# 1193
Delta R.T. 0.006 min
Lab File: VL043229.D
Acq: 19 Nov 2025 00:13

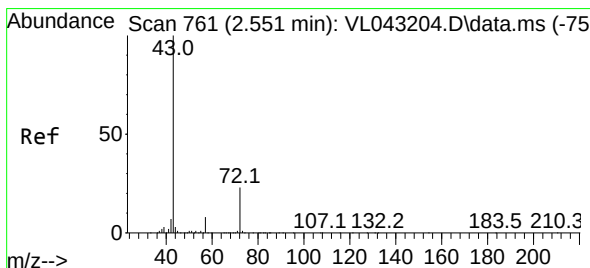
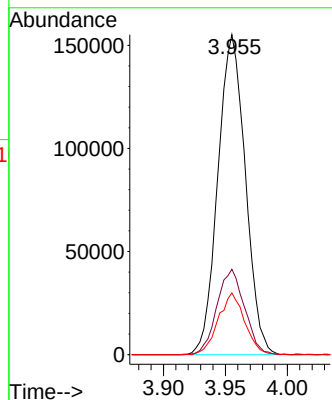
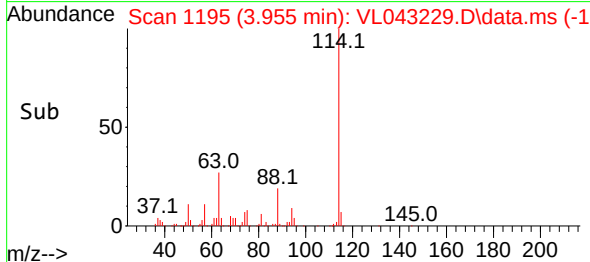
Instrument :
MSVOA_L
ClientSampleId :
IA2DL



Tgt Ion:114 Resp: 23882
Ion Ratio Lower Upper
114 100
63 26.8 21.0 31.6
88 18.6 14.9 22.3

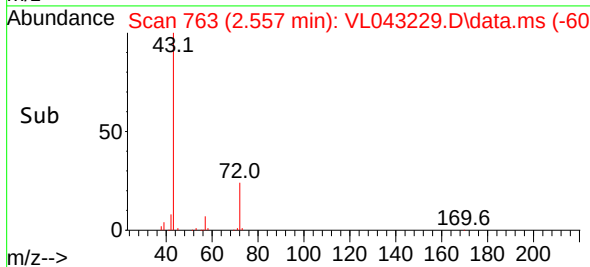
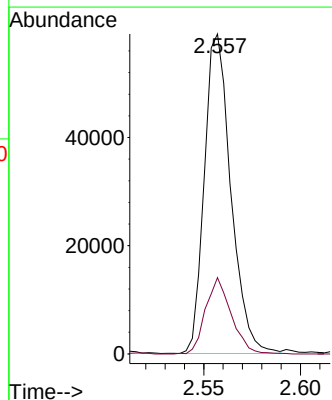
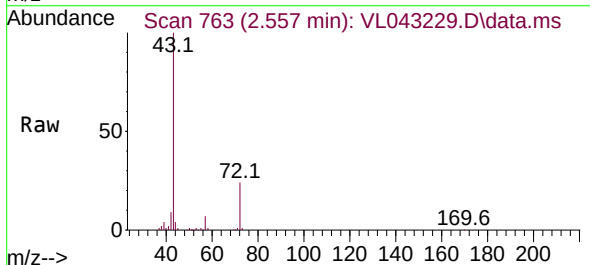
Manual Integrations
APPROVED

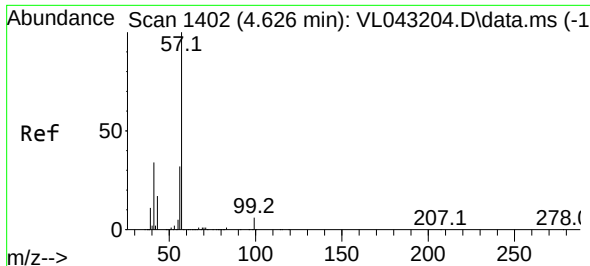
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#34
2-Butanone
Concen: 3.334 ppbv
RT: 2.557 min Scan# 763
Delta R.T. 0.006 min
Lab File: VL043229.D
Acq: 19 Nov 2025 00:13

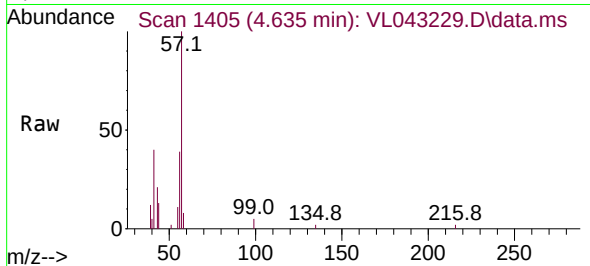
Tgt Ion: 43 Resp: 56206
Ion Ratio Lower Upper
43 100
72 23.1 18.1 27.1





#44
2,2,4-Trimethylpentane
Concen: 0.170 ppbv m
RT: 4.635 min Scan# 1402
Delta R.T. 0.009 min
Lab File: VL043229.D
Acq: 19 Nov 2025 00:13

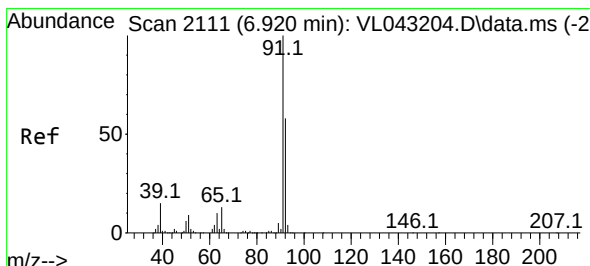
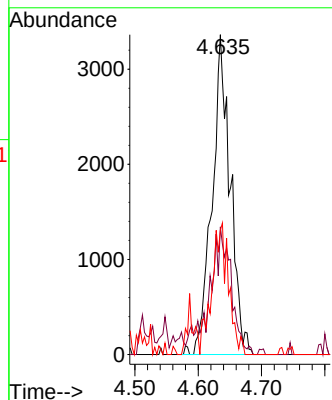
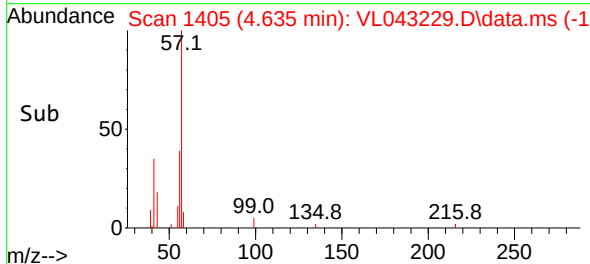
Instrument :
MSVOA_L
ClientSampleId :
IA2DL



Tgt Ion: 57 Resp: 6686
Ion Ratio Lower Upper
57 100
41 48.5 28.0 42.0
56 45.0 25.6 38.4

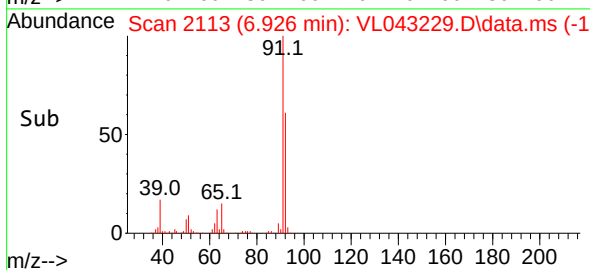
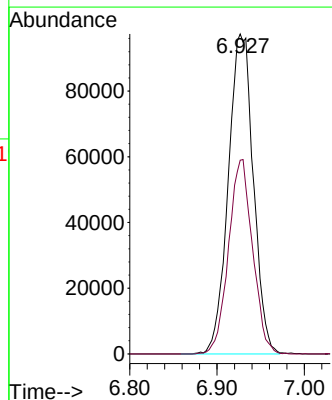
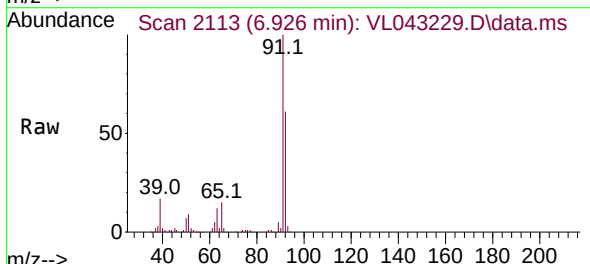
Manual Integrations
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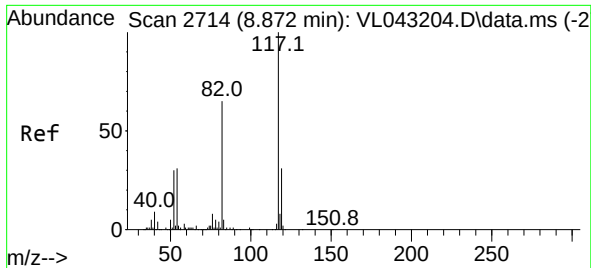
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#53
Toluene
Concen: 7.171 ppbv m
RT: 6.926 min Scan# 2113
Delta R.T. 0.006 min
Lab File: VL043229.D
Acq: 19 Nov 2025 00:13

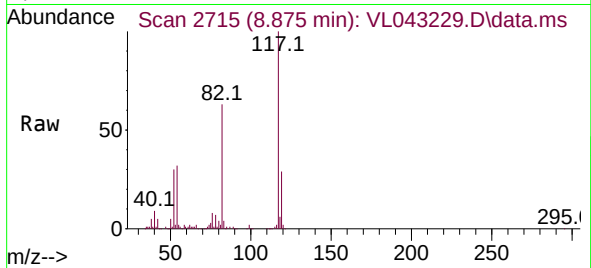
Tgt Ion: 91 Resp: 194223
Ion Ratio Lower Upper
91 100
92 58.2 47.4 71.0





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.875 min Scan# 2715
Delta R.T. 0.003 min
Lab File: VL043229.D
Acq: 19 Nov 2025 00:13

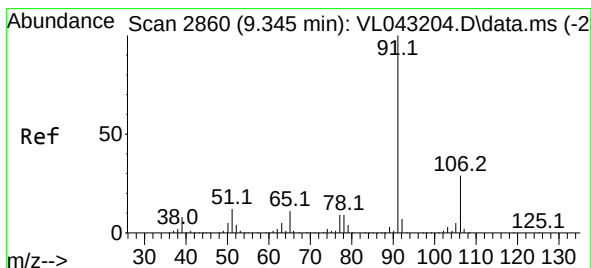
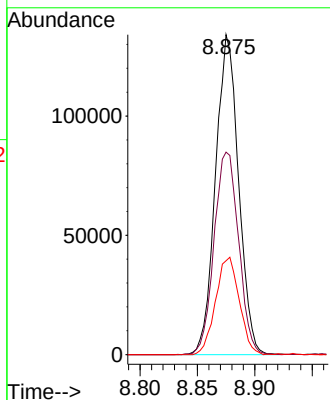
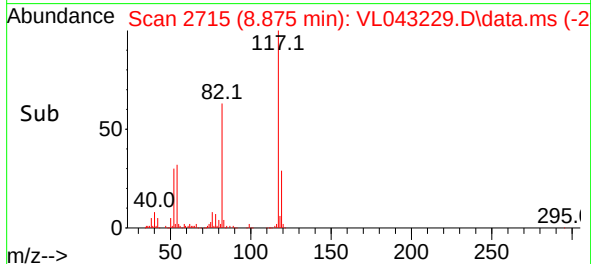
Instrument :
MSVOA_L
ClientSampleId :
IA2DL



Tgt Ion:117 Resp: 187305
Ion Ratio Lower Upper
117 100
82 67.4 56.1 84.1
119 31.4 25.0 37.6

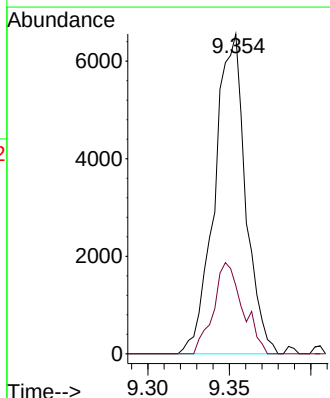
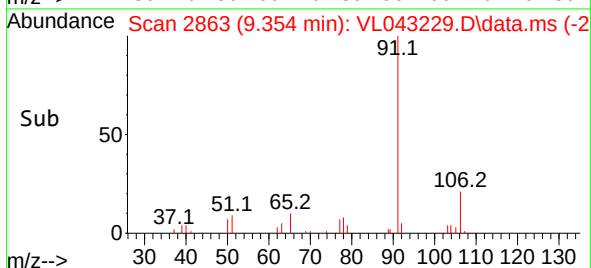
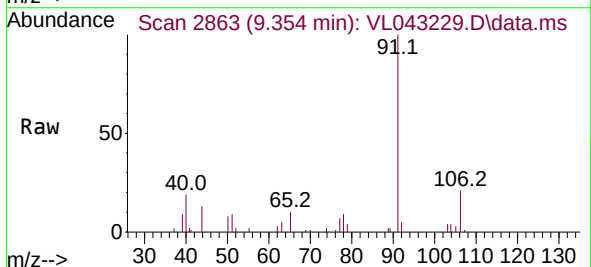
Manual Integrations
APPROVED

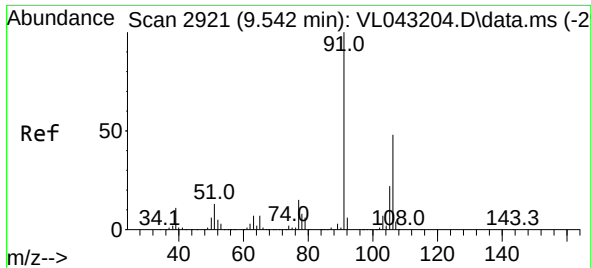
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#58
Ethyl Benzene
Concen: 0.241 ppbv
RT: 9.354 min Scan# 2863
Delta R.T. 0.009 min
Lab File: VL043229.D
Acq: 19 Nov 2025 00:13

Tgt Ion: 91 Resp: 8676
Ion Ratio Lower Upper
91 100
106 21.3 22.8 34.2#





#59

m/p-Xylene

Concen: 0.838 ppbv m

RT: 9.526 min Scan# 29

Delta R.T. -0.017 min

Lab File: VL043229.D

Acq: 19 Nov 2025 00:13

Instrument :

MSVOA_L

ClientSampleId :

IA2DL

Tgt Ion: 91 Resp: 24225

Ion Ratio Lower Upper

91 100

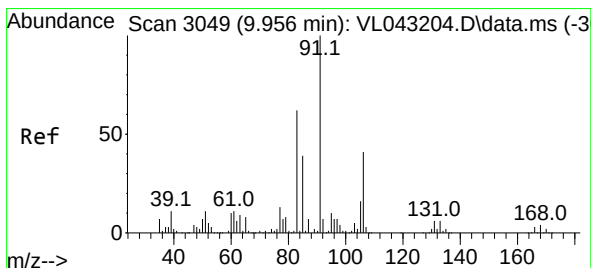
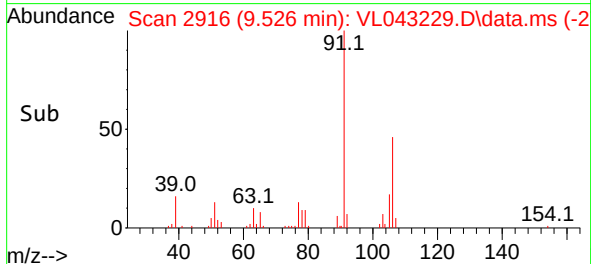
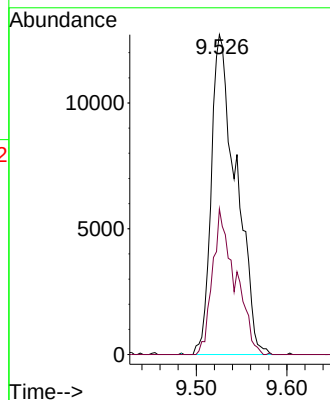
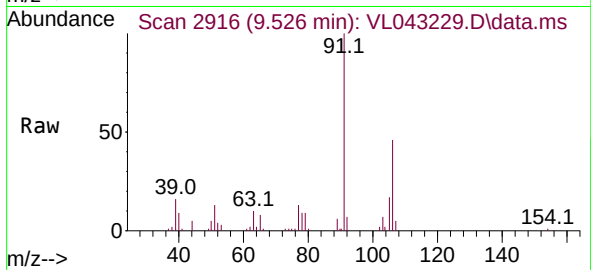
106 0.0 36.1 54.1

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/19/2025

Supervised By :Mahesh Dadoda 11/19/2025



#60

o-Xylene

Concen: 0.180 ppbv

RT: 9.962 min Scan# 3051

Delta R.T. 0.006 min

Lab File: VL043229.D

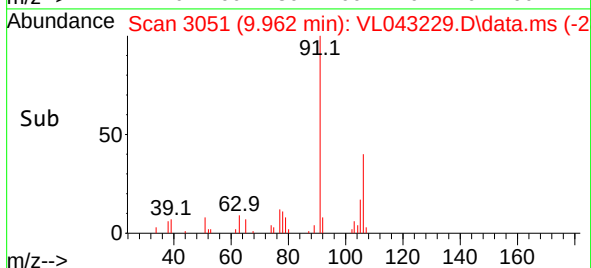
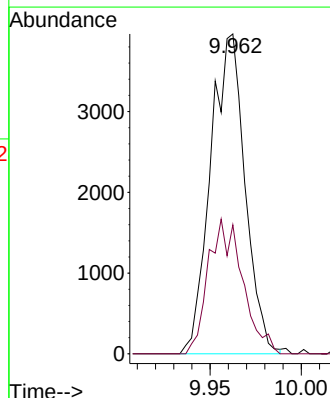
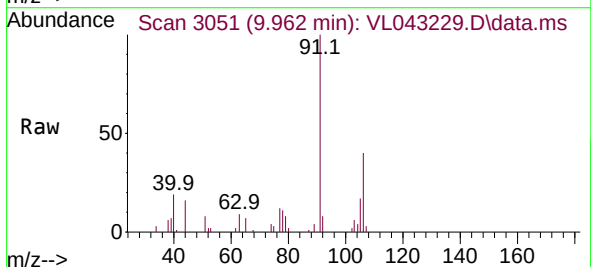
Acq: 19 Nov 2025 00:13

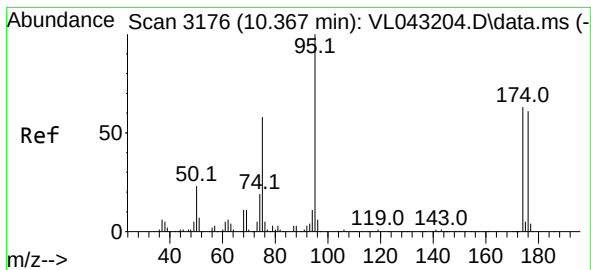
Tgt Ion: 91 Resp: 5207

Ion Ratio Lower Upper

91 100

106 41.8 20.9 62.8





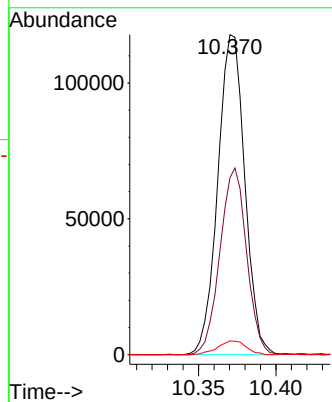
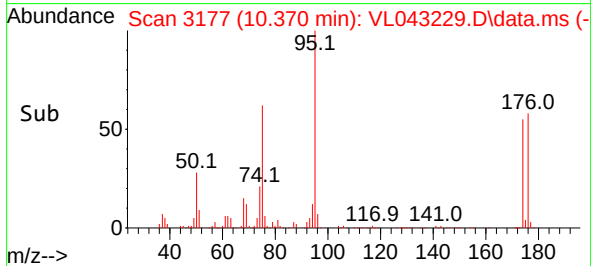
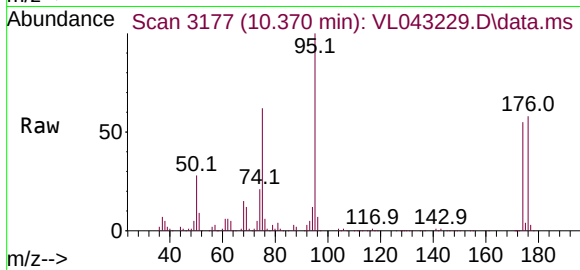
#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.395 ppbv
 RT: 10.370 min Scan# 3177
 Delta R.T. 0.003 min
 Lab File: VL043229.D
 Acq: 19 Nov 2025 00:13

Instrument :
 MSVOA_L
 ClientSampleId :
 IA2DL

Tgt Ion: 95 Resp: 142715
 Ion Ratio Lower Upper
 95 100
 174 57.5 50.2 75.2
 175 4.5 4.1 6.1

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 11/19/2025
 Supervised By :Mahesh Dadoda 11/19/2025



Report of Analysis

Client: GFE LLC
Project: 316 TO 326 WESTBURY AVE
Client Sample ID: SV3
Lab Sample ID: Q3651-05
Analytical Method: TO-15
Sample Wt/Vol: 400 mL

Date Collected: 11/11/25
Date Received: 11/14/25
SDG No.: Q3651
Matrix: Air
Test: VOCMS Group2

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qua.	DF	MDL ug/m3	LOQ / CRQL ug/m3	Date Ana.	BatchID
TARGETS									
75-01-4	Vinyl Chloride	0.10	0.26	U	4	0.26	0.31	11/18/25 21:33	VL111825
142-82-5	Heptane	1.30	5.33	J	4	2.79	8.20	11/18/25 21:33	VL111825
75-34-3	1,1-Dichloroethane	0.52	2.10	U	4	2.10	8.09	11/18/25 21:33	VL111825
110-82-7	Cyclohexane	0.88	3.03	U	4	3.03	6.88	11/18/25 21:33	VL111825
156-59-2	cis-1,2-Dichloroethene	0.40	1.59	U	4	1.59	7.93	11/18/25 21:33	VL111825
71-55-6	1,1,1-Trichloroethane	0.060	0.33	U	4	0.33	0.65	11/18/25 21:33	VL111825
540-84-1	2,2,4-Trimethylpentane	0.56	2.62	U	4	2.62	9.34	11/18/25 21:33	VL111825
71-43-2	Benzene	0.40	1.28	J	4	1.02	6.39	11/18/25 21:33	VL111825
79-01-6	Trichloroethene	0.10	0.54	U	4	0.54	0.64	11/18/25 21:33	VL111825
108-88-3	Toluene	7.30	27.5		4	2.41	7.54	11/18/25 21:33	VL111825
127-18-4	Tetrachloroethene	0.20	1.36		4	0.41	0.81	11/18/25 21:33	VL111825
100-41-4	Ethyl Benzene	0.76	3.30	U	4	3.30	8.69	11/18/25 21:33	VL111825
179601-23-1	m/p-Xylene	1.60	6.95	U	4	6.95	17.4	11/18/25 21:33	VL111825
95-47-6	o-Xylene	0.84	3.65	U	4	3.65	8.69	11/18/25 21:33	VL111825
108-67-8	1,3,5-Trimethylbenzene	0.72	3.54	U	4	3.54	9.83	11/18/25 21:33	VL111825
95-63-6	1,2,4-Trimethylbenzene	0.72	3.54	U	4	3.54	9.83	11/18/25 21:33	VL111825
91-20-3	Naphthalene	0.050	0.26	U	4	0.26	2.10	11/18/25 21:33	VL111825
110-54-3	Hexane	6.60	23.3		4	2.26	7.05	11/18/25 21:33	VL111825

SURROGATES

460-00-4	1-Bromo-4-Fluorobenzene	10.3		65 - 135	103%	SPK: 10
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INTERNAL STANDARDS

	Area Count
74-97-5	90200
540-36-3	239000
3114-55-4	188000

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\VL111825\
 Data File : VL043224.D
 Acq On : 18 Nov 2025 21:33
 Operator : SY/MD
 Sample : Q3651-05 4X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV3

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 11/19/2025
 Supervised By :Mahesh Dadoda 11/19/2025

Quant Time: Nov 19 01:40:42 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M

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

QLast Update : Wed Nov 19 01:11:25 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.784	49	90209	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.952	114	238879	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.875	117	188275	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.370	95	141605	10.261	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	= 102.600%	
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.499	85	1368	0.108	ppbv #	88
3) Chlorodifluoromethane	1.476	51	1849	0.148	ppbv	93
9) Propene	1.486	41	2403	0.452	ppbv #	1
10) Heptane	4.972	43	5012m	0.317	ppbv	
13) Ethanol	1.719	45	7214	3.861	ppbv	98
15) Acetone	1.832	43	184177	14.695	ppbv	98
17) tert-Butyl alcohol	2.039	59	2672	0.162	ppbv #	63
26) Hexane	2.822	57	19430	1.640	ppbv #	41
27) Carbon Disulfide	2.149	76	3027	0.250	ppbv #	1
30) Cyclohexane	3.852	84	1053m	0.106	ppbv	
34) 2-Butanone	2.557	43	33383	1.980	ppbv	99
36) Benzene	3.648	78	2250m	0.098	ppbv	
41) Tetrahydrofuran	3.059	42	2145m	0.230	ppbv	
50) 4-Methyl-2-Pentanone	5.752	43	3909m	0.165	ppbv	
51) 2-Hexanone	7.431	43	8978m	0.487	ppbv	
52) Tetrachloroethene	8.221	164	421m	0.049	ppbv	
53) Toluene	6.923	91	49578m	1.830	ppbv	
58) Ethyl Benzene	9.351	91	5506m	0.152	ppbv	
59) m/p-Xylene	9.529	91	11158	0.384	ppbv	95
60) o-Xylene	9.956	91	5502	0.190	ppbv	95
74) 1,2,4-Trimethylbenzene	11.529	105	4159	0.128	ppbv #	48

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

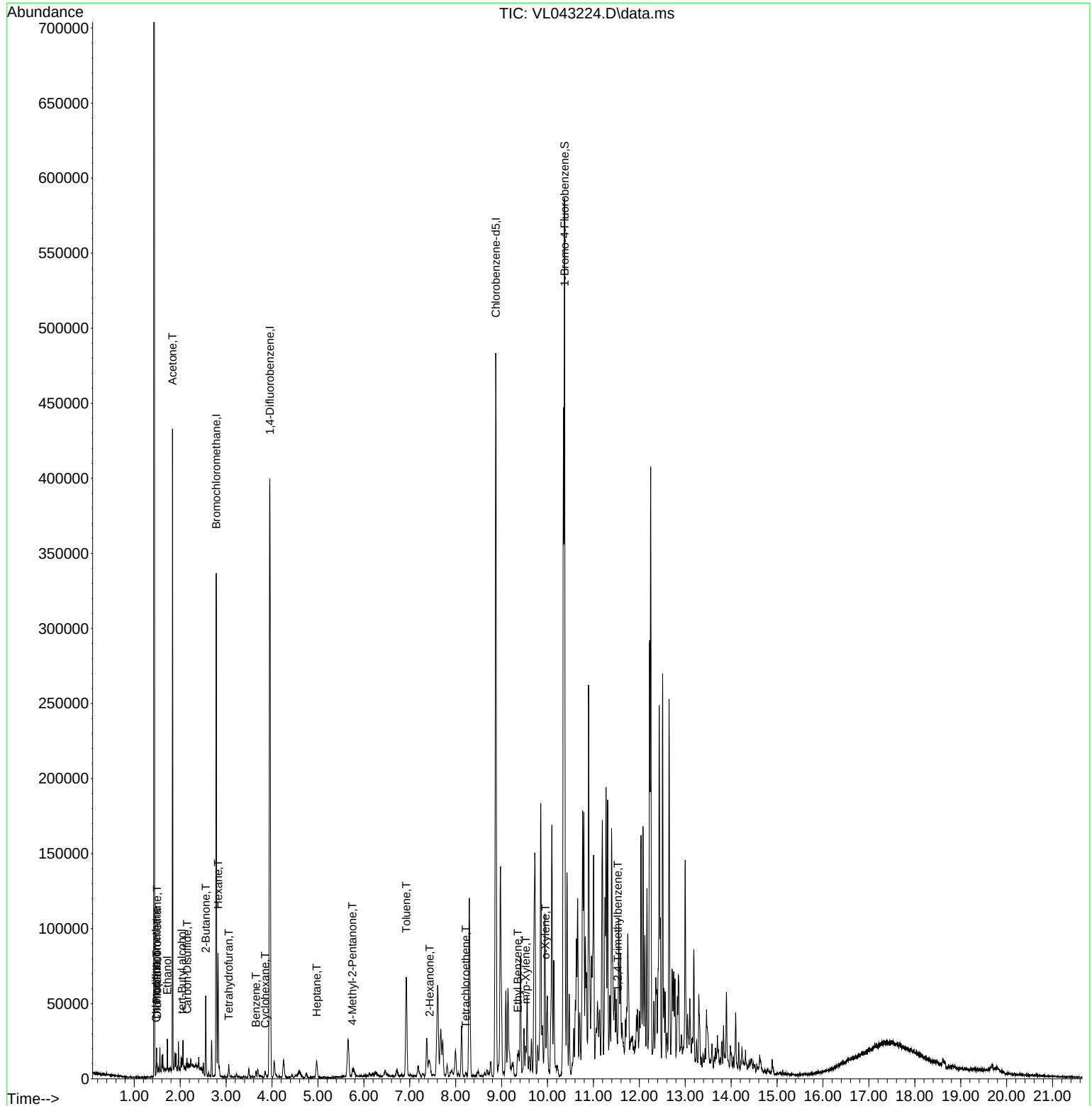
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Data File : VL043224.D
Acq On : 18 Nov 2025 21:33
Operator : SY/MD
Sample : Q3651-05 4X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

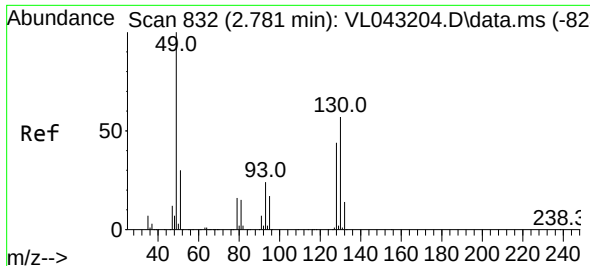
Instrument :
MSVOA_L
ClientSampleId :
SV3

Quant Time: Nov 19 01:40:42 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Wed Nov 19 01:11:25 2025
Response via : Initial Calibration

Manual Integrations
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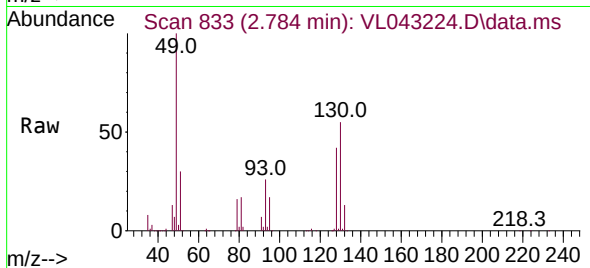
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 832
Delta R.T. 0.003 min
Lab File: VL043224.D
Acq: 18 Nov 2025 21:33

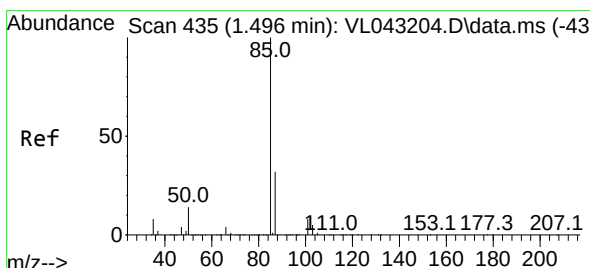
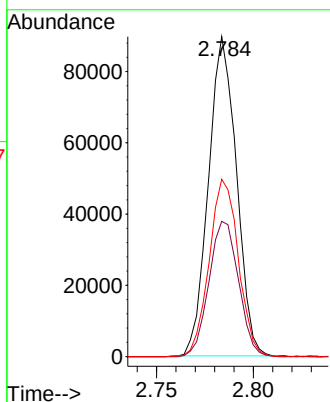
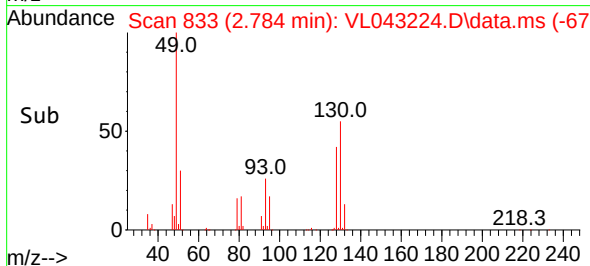
Instrument :
MSVOA_L
ClientSampleId :
SV3



Tgt Ion: 49 Resp: 90209
Ion Ratio Lower Upper
49 100
128 44.7 23.0 69.0
130 57.7 29.9 89.7

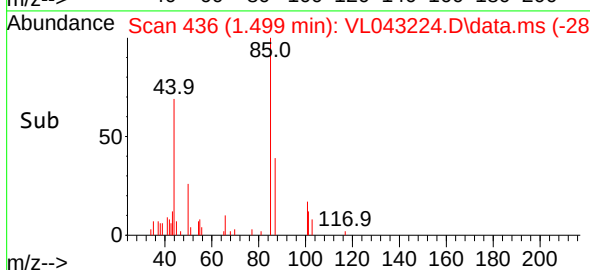
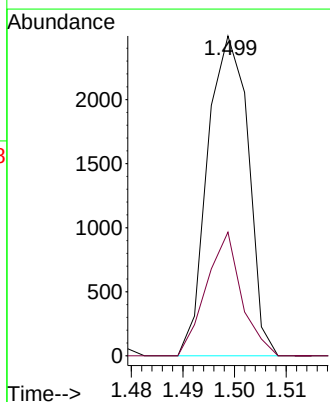
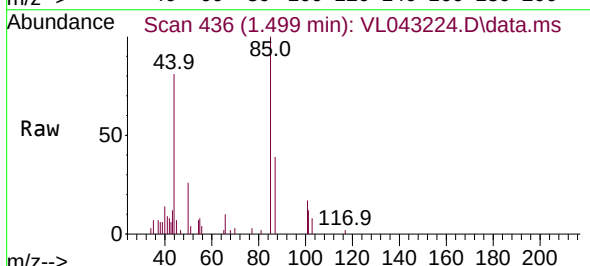
Manual Integrations
APPROVED

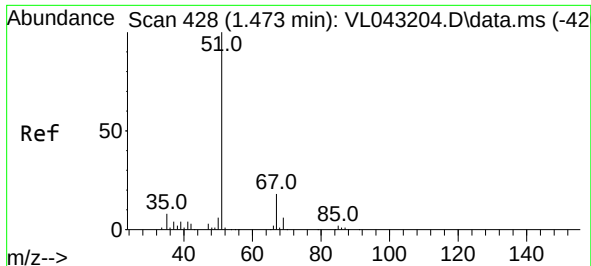
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#2
Dichlorodifluoromethane
Concen: 0.108 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.003 min
Lab File: VL043224.D
Acq: 18 Nov 2025 21:33

Tgt Ion: 85 Resp: 1368
Ion Ratio Lower Upper
85 100
87 38.7 25.4 38.2#





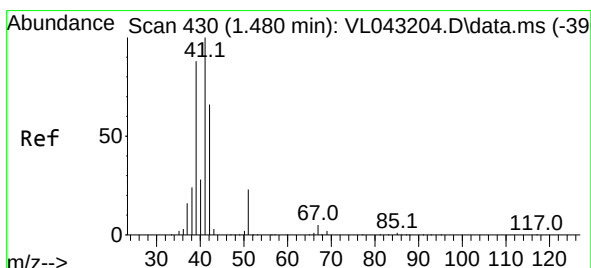
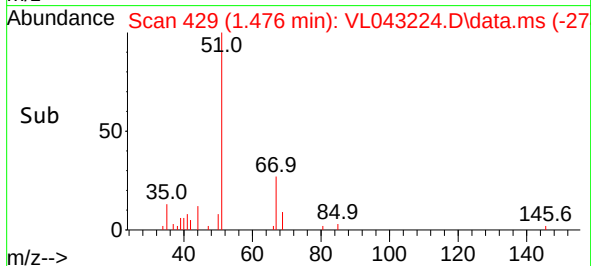
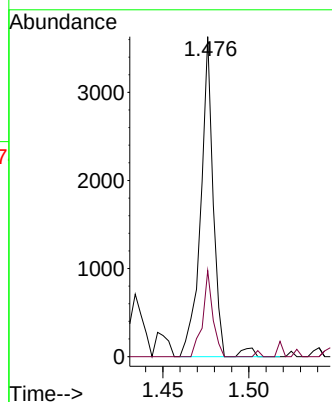
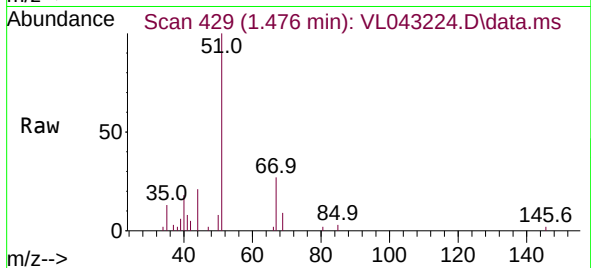
#3
Chlorodifluoromethane
Concen: 0.148 ppbv
RT: 1.476 min Scan# 428
Delta R.T. 0.003 min
Lab File: VL043224.D
Acq: 18 Nov 2025 21:33

Instrument :
MSVOA_L
ClientSampleId :
SV3

Tgt Ion: 51 Resp: 1849
Ion Ratio Lower Upper
51 100
67 21.6 14.9 22.3

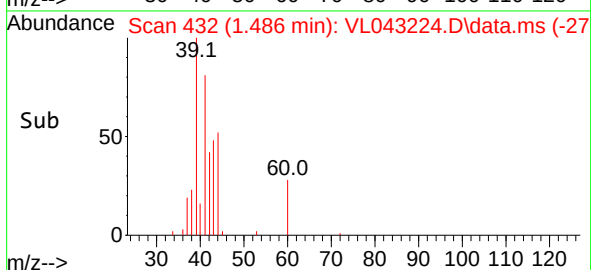
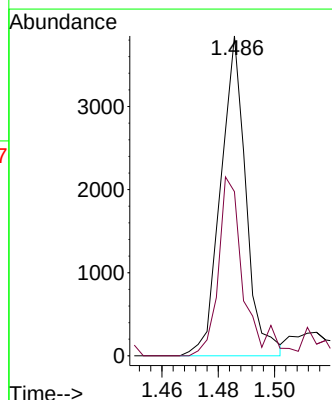
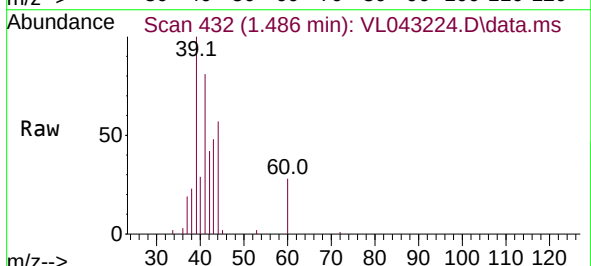
Manual Integrations
APPROVED

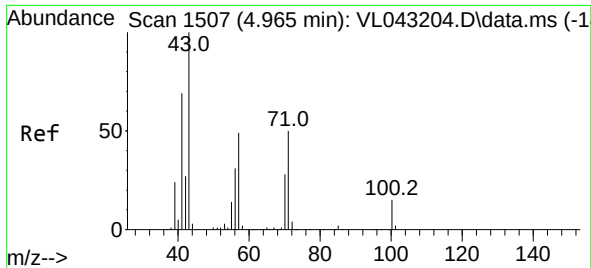
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#9
Propene
Concen: 0.452 ppbv
RT: 1.486 min Scan# 432
Delta R.T. 0.006 min
Lab File: VL043224.D
Acq: 18 Nov 2025 21:33

Tgt Ion: 41 Resp: 2403
Ion Ratio Lower Upper
41 100
42 55.6 3.7 5.5#





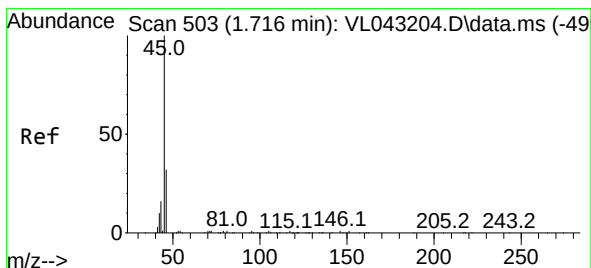
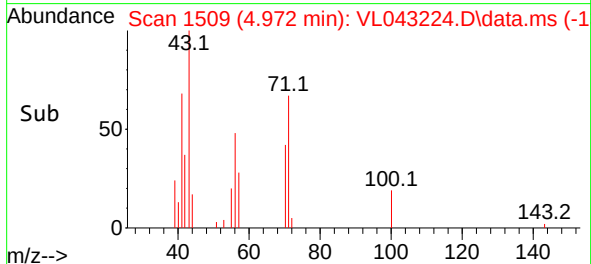
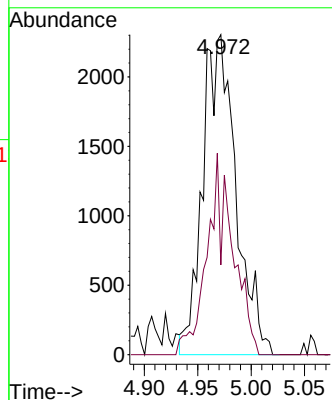
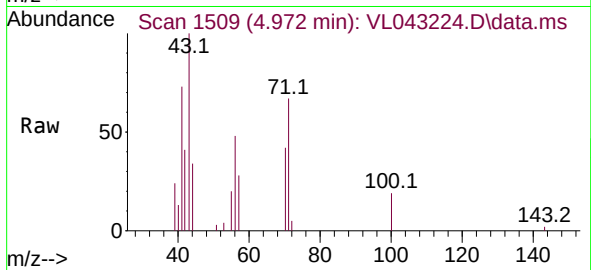
#10
Heptane
Concen: 0.317 ppbv m
RT: 4.972 min Scan# 11
Delta R.T. 0.006 min
Lab File: VL043224.D
Acq: 18 Nov 2025 21:33

Instrument :
MSVOA_L
ClientSampleId :
SV3

Tgt Ion: 43 Resp: 5012
Ion Ratio Lower Upper
43 100
57 48.7 39.7 59.5

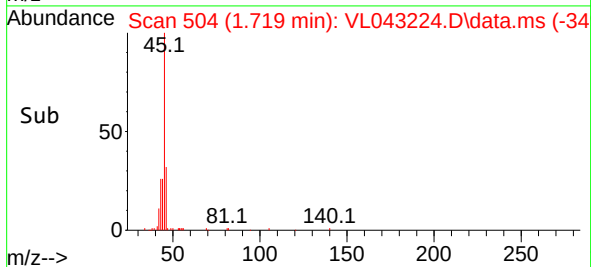
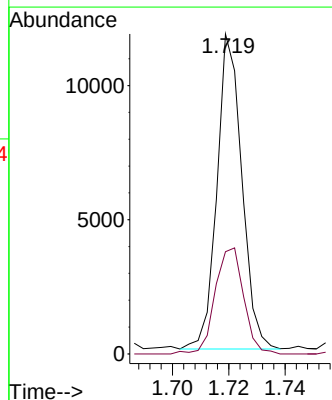
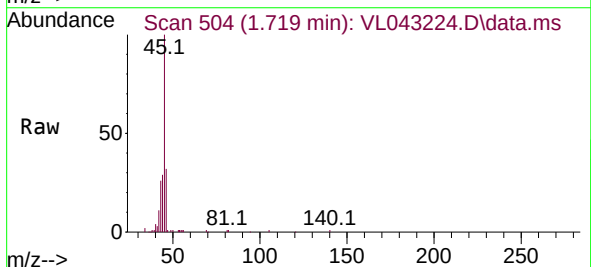
Manual Integrations
APPROVED

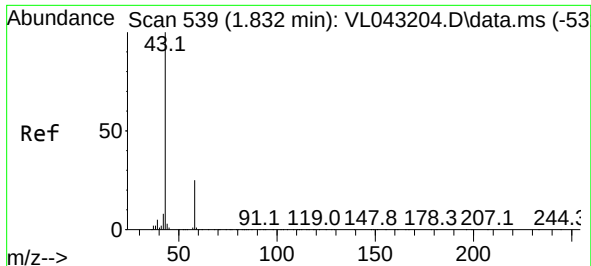
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#13
Ethanol
Concen: 3.861 ppbv
RT: 1.719 min Scan# 504
Delta R.T. 0.003 min
Lab File: VL043224.D
Acq: 18 Nov 2025 21:33

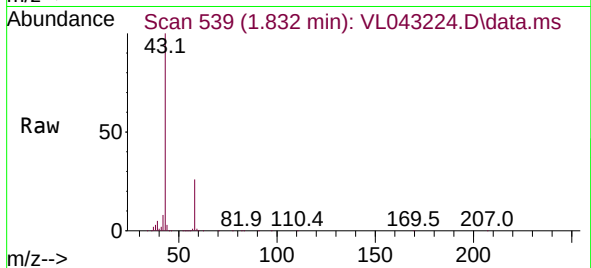
Tgt Ion: 45 Resp: 7214
Ion Ratio Lower Upper
45 100
46 38.5 15.0 59.8





#15
Acetone
Concen: 14.695 ppbv
RT: 1.832 min Scan# 539
Delta R.T. -0.000 min
Lab File: VL043224.D
Acq: 18 Nov 2025 21:33

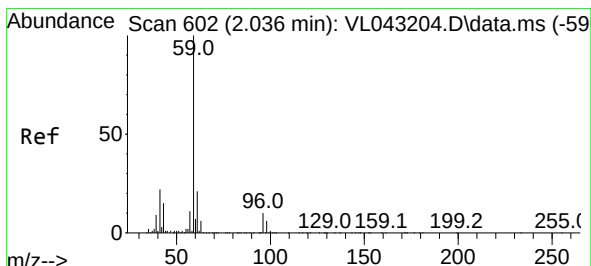
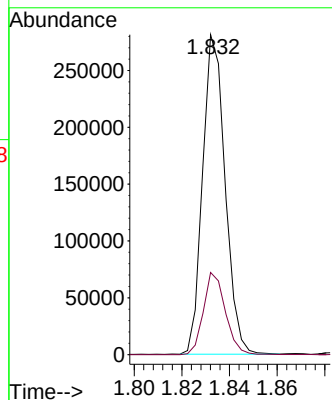
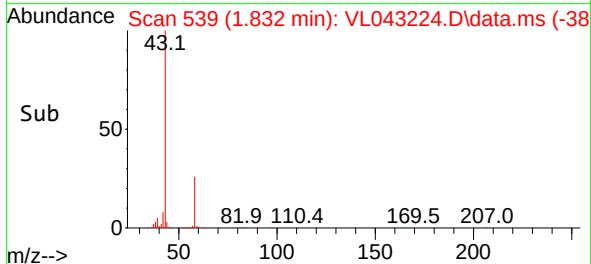
Instrument :
MSVOA_L
ClientSampleId :
SV3



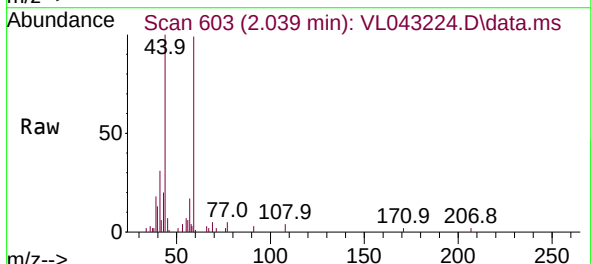
Tgt Ion: 43 Resp: 184172
Ion Ratio Lower Upper
43 100
58 25.0 20.7 31.1

Manual Integrations
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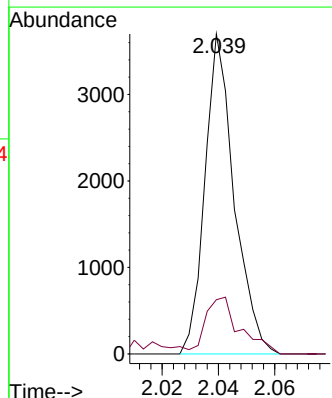
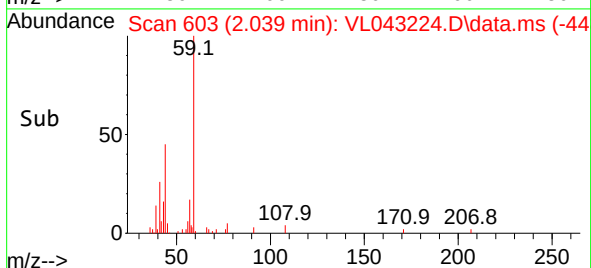
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025

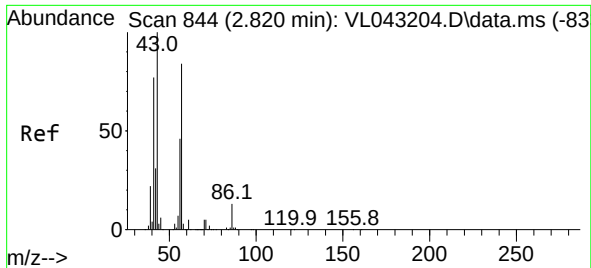


#17
tert-Butyl alcohol
Concen: 0.162 ppbv
RT: 2.039 min Scan# 603
Delta R.T. 0.003 min
Lab File: VL043224.D
Acq: 18 Nov 2025 21:33



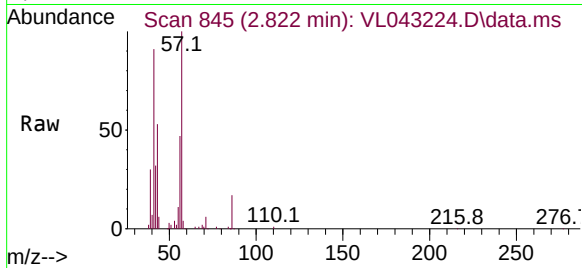
Tgt Ion: 59 Resp: 2672
Ion Ratio Lower Upper
59 100
57 25.3 9.0 13.4#





#26
Hexane
Concen: 1.640 ppbv
RT: 2.822 min Scan# 844
Delta R.T. 0.003 min
Lab File: VL043224.D
Acq: 18 Nov 2025 21:33

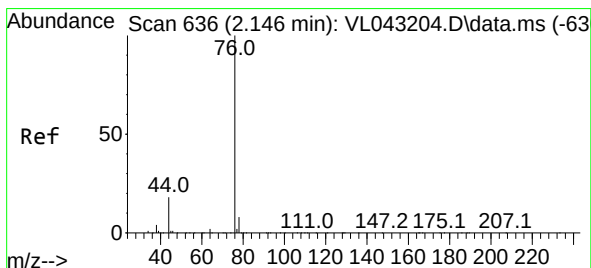
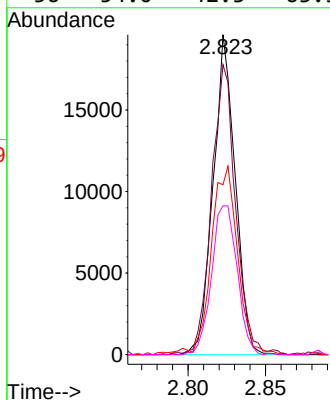
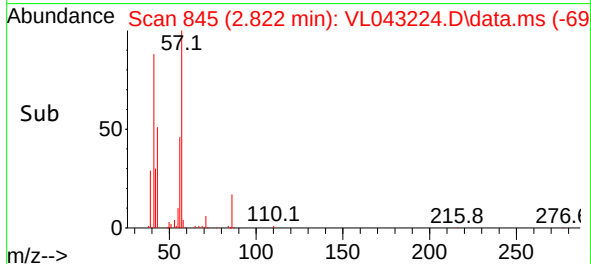
Instrument :
MSVOA_L
ClientSampleId :
SV3



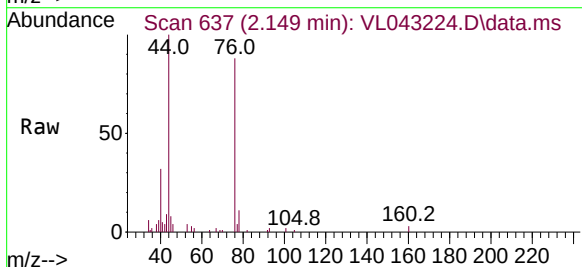
Tgt Ion: 57 Resp: 19430
Ion Ratio Lower Upper
57 100
41 99.4 74.6 111.8
43 70.8 179.0 268.4
56 54.0 42.3 63.5

Manual Integrations
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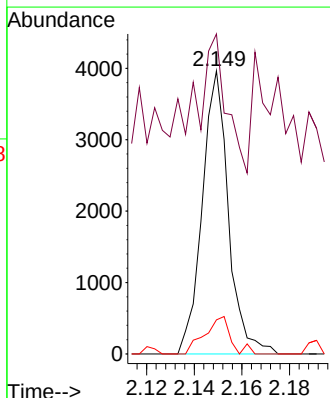
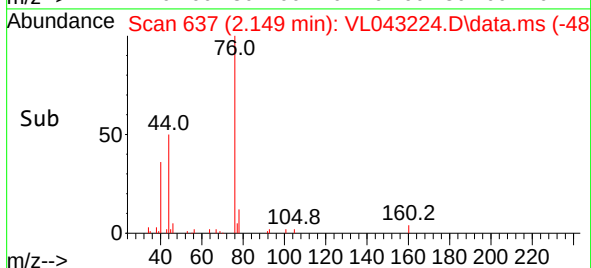
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025

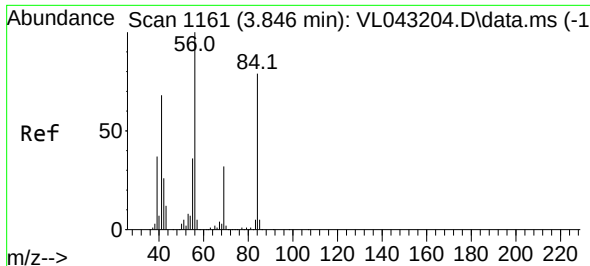


#27
Carbon Disulfide
Concen: 0.250 ppbv
RT: 2.149 min Scan# 637
Delta R.T. 0.003 min
Lab File: VL043224.D
Acq: 18 Nov 2025 21:33



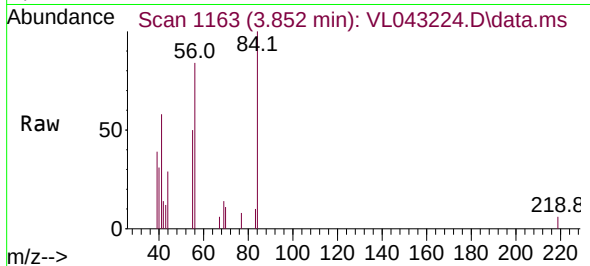
Tgt Ion: 76 Resp: 3027
Ion Ratio Lower Upper
76 100
44 201.9 16.1 24.1#
78 14.1 9.6 14.4





#30
Cyclohexane
Concen: 0.106 ppbv m
RT: 3.852 min Scan# 1163
Delta R.T. 0.006 min
Lab File: VL043224.D
Acq: 18 Nov 2025 21:33

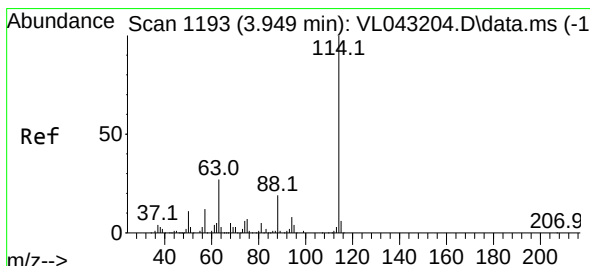
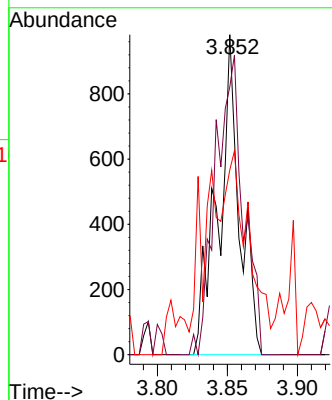
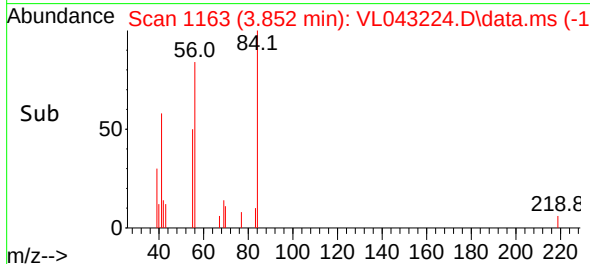
Instrument :
MSVOA_L
ClientSampleId :
SV3



Tgt Ion: 84 Resp: 1053
Ion Ratio Lower Upper
84 100
56 0.0 104.7 157.1
41 0.0 69.0 103.6

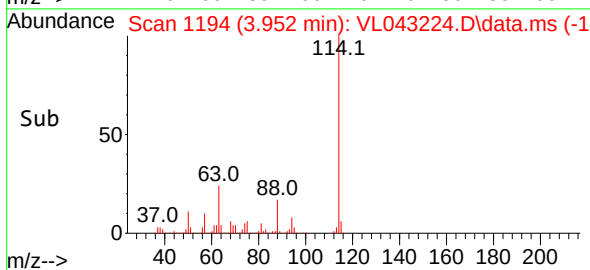
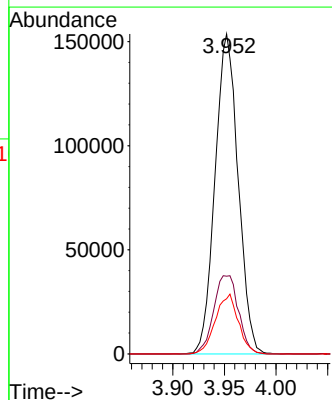
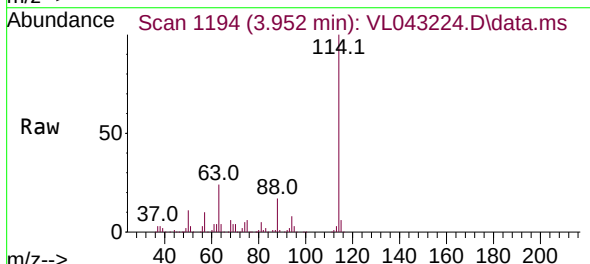
Manual Integrations
APPROVED

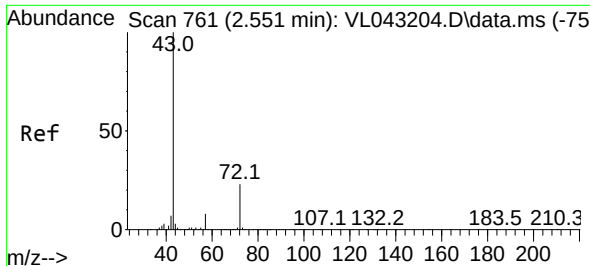
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.952 min Scan# 1194
Delta R.T. 0.003 min
Lab File: VL043224.D
Acq: 18 Nov 2025 21:33

Tgt Ion:114 Resp: 238879
Ion Ratio Lower Upper
114 100
63 26.2 21.0 31.6
88 18.6 14.9 22.3





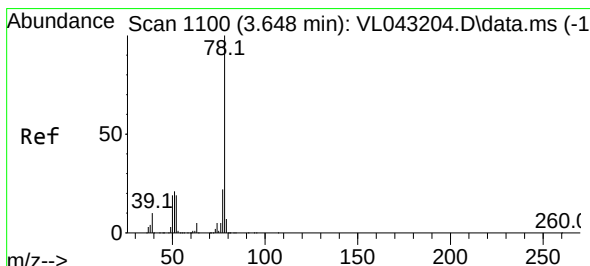
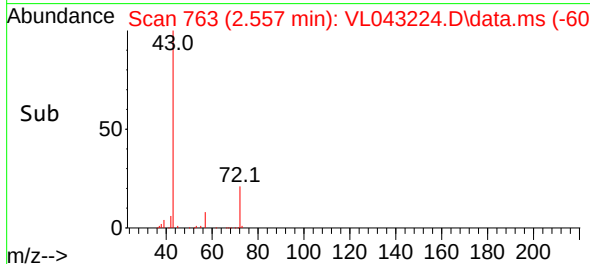
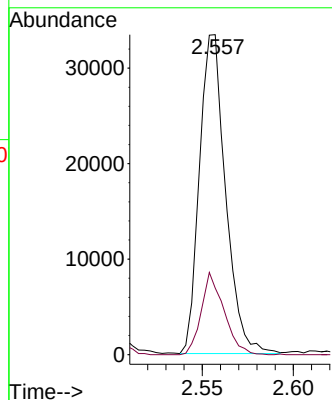
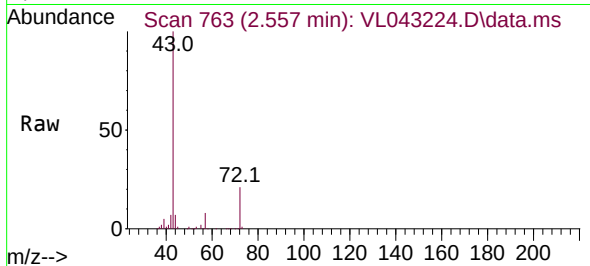
#34
2-Butanone
Concen: 1.980 ppbv
RT: 2.557 min Scan# 761
Delta R.T. 0.006 min
Lab File: VL043224.D
Acq: 18 Nov 2025 21:33

Instrument :
MSVOA_L
Client SampleId :
SV3

Tgt Ion: 43 Resp: 33383
Ion Ratio Lower Upper
43 100
72 22.3 18.1 27.1

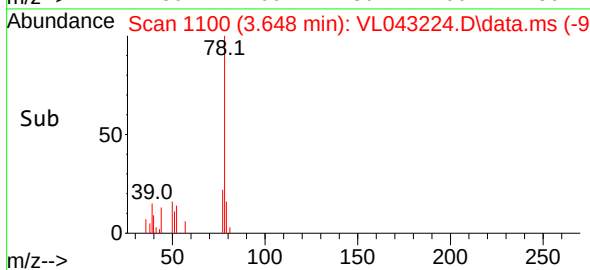
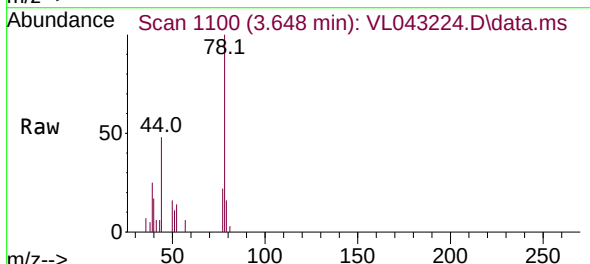
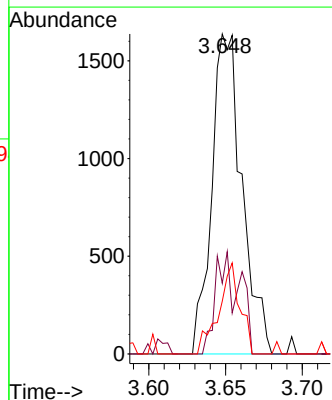
Manual Integrations
APPROVED

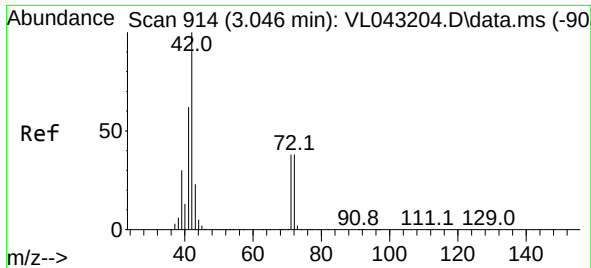
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#36
Benzene
Concen: 0.098 ppbv m
RT: 3.648 min Scan# 1100
Delta R.T. -0.000 min
Lab File: VL043224.D
Acq: 18 Nov 2025 21:33

Tgt Ion: 78 Resp: 2250
Ion Ratio Lower Upper
78 100
77 22.1 17.5 26.3
50 16.5 15.5 23.3





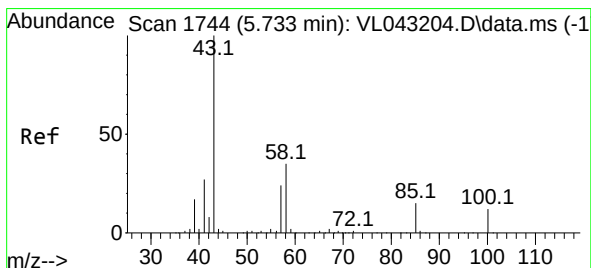
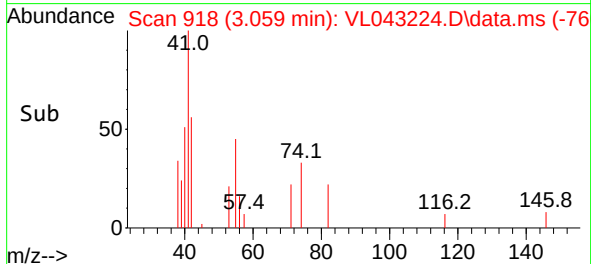
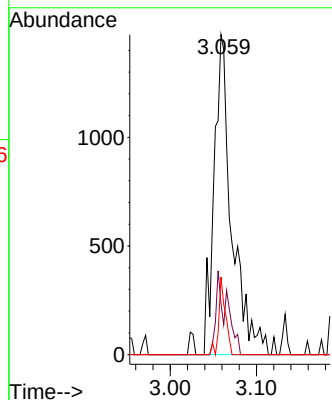
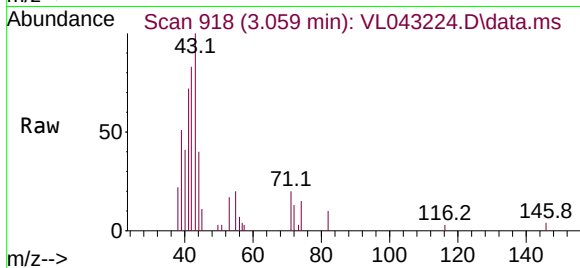
#41
Tetrahydrofuran
Concen: 0.230 ppbv m
RT: 3.059 min Scan# 914
Delta R.T. 0.013 min
Lab File: VL043224.D
Acq: 18 Nov 2025 21:33

Instrument :
MSVOA_L
ClientSampleId :
SV3

Tgt Ion: 42 Resp: 2145
Ion Ratio Lower Upper
42 100
72 0.0 30.6 46.0
71 0.0 30.5 45.7

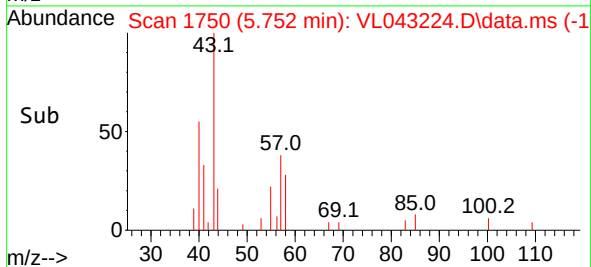
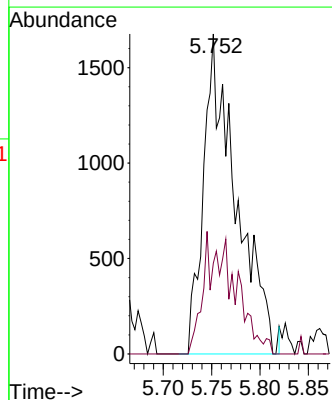
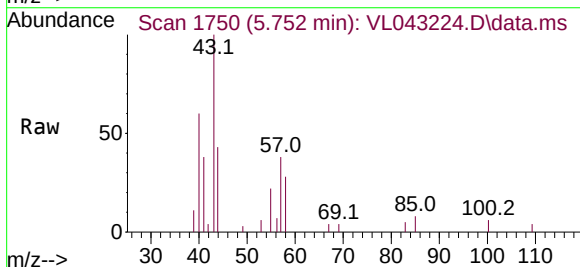
Manual Integrations
APPROVED

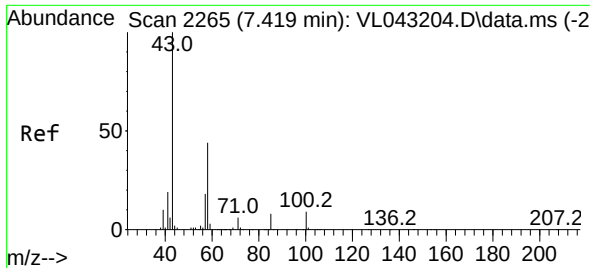
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#50
4-Methyl-2-Pentanone
Concen: 0.165 ppbv m
RT: 5.752 min Scan# 1750
Delta R.T. 0.019 min
Lab File: VL043224.D
Acq: 18 Nov 2025 21:33

Tgt Ion: 43 Resp: 3909
Ion Ratio Lower Upper
43 100
58 36.0 28.4 42.6





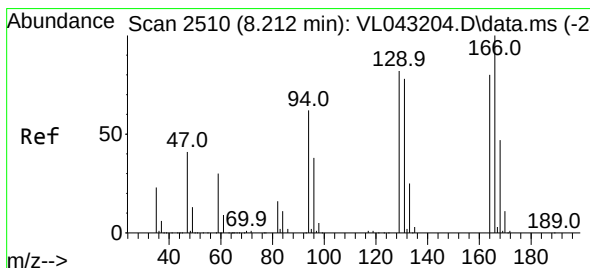
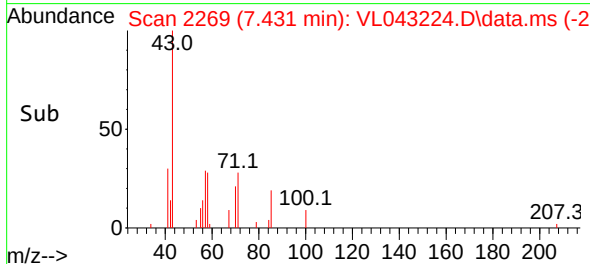
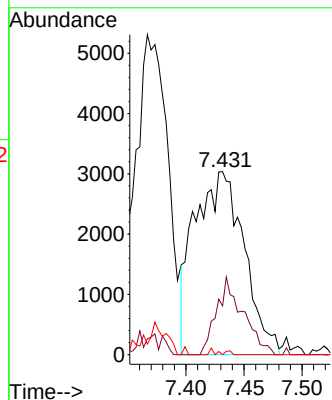
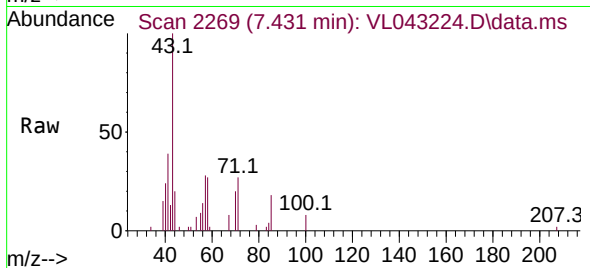
#51
2-Hexanone
Concen: 0.487 ppbv m
RT: 7.431 min Scan# 21
Delta R.T. 0.013 min
Lab File: VL043224.D
Acq: 18 Nov 2025 21:33

Instrument :
MSVOA_L
ClientSampleId :
SV3

Tgt Ion: 43 Resp: 8978
Ion Ratio Lower Upper
43 100
58 0.0 38.4 57.6
98 0.0 0.0 0.0

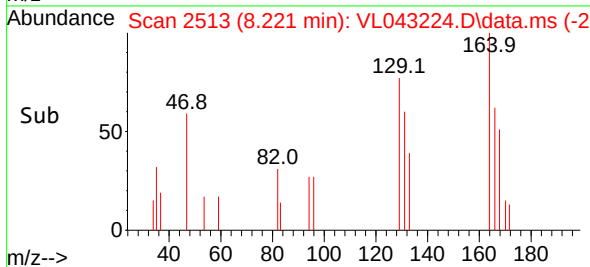
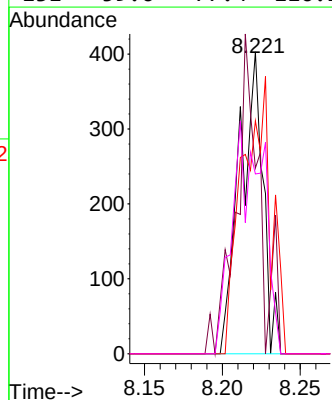
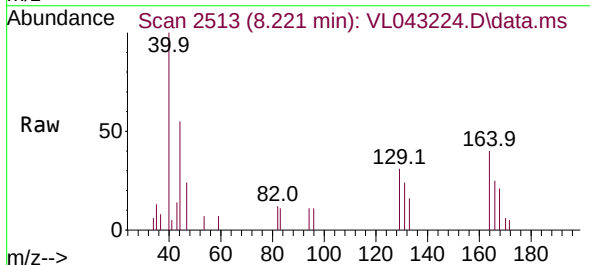
Manual Integrations
APPROVED

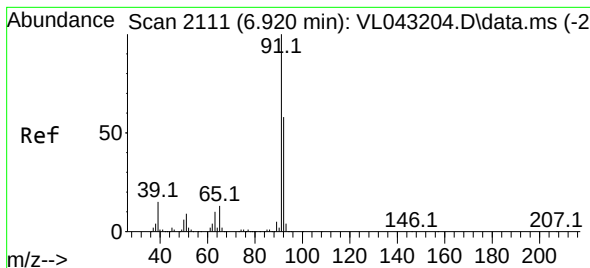
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#52
Tetrachloroethene
Concen: 0.049 ppbv m
RT: 8.221 min Scan# 2513
Delta R.T. 0.009 min
Lab File: VL043224.D
Acq: 18 Nov 2025 21:33

Tgt Ion:164 Resp: 421
Ion Ratio Lower Upper
164 100
166 61.5 99.4 149.2#
129 77.2 81.8 122.8#
131 59.6 77.4 116.2#





#53

Toluene

Concen: 1.830 ppbv m

RT: 6.923 min Scan# 2111

Delta R.T. 0.003 min

Lab File: VL043224.D

Acq: 18 Nov 2025 21:33

Instrument :

MSVOA_L

ClientSampleId :

SV3

Tgt Ion: 91 Resp: 49578

Ion Ratio Lower Upper

91 100

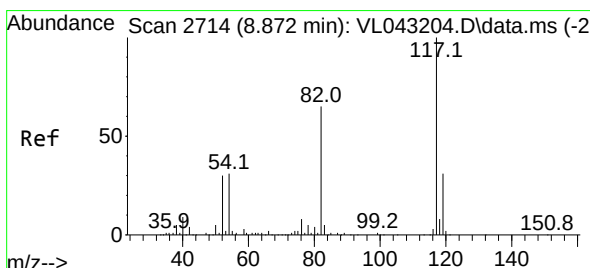
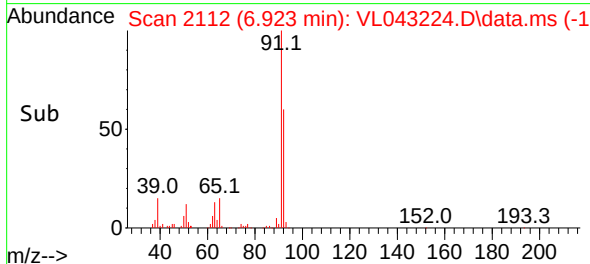
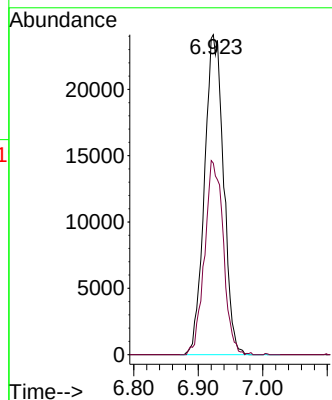
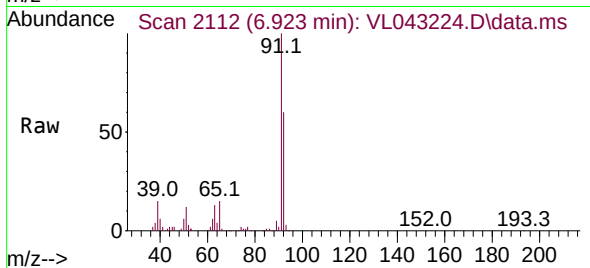
92 59.4 47.4 71.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/19/2025

Supervised By :Mahesh Dadoda 11/19/2025



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.875 min Scan# 2715

Delta R.T. 0.003 min

Lab File: VL043224.D

Acq: 18 Nov 2025 21:33

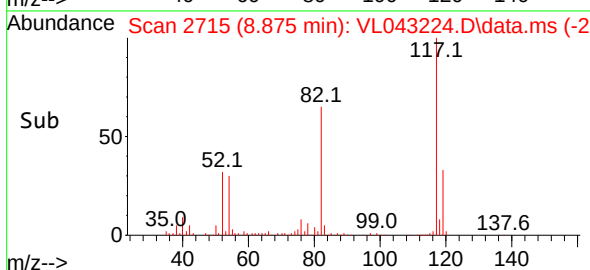
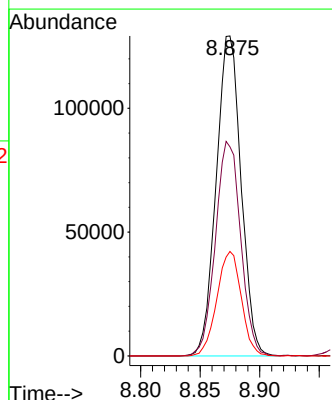
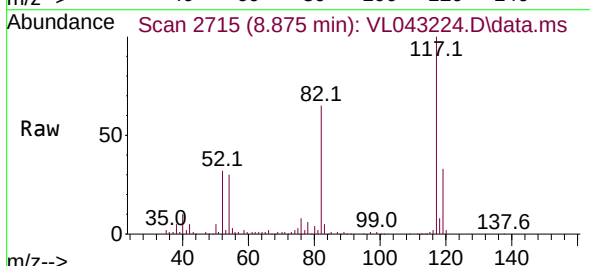
Tgt Ion:117 Resp: 188275

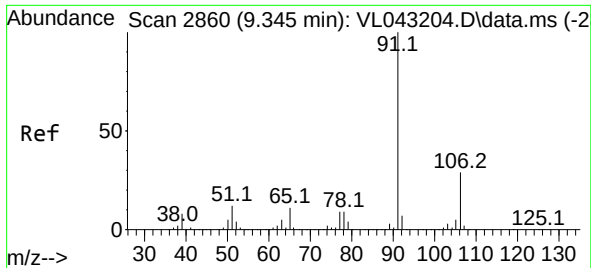
Ion Ratio Lower Upper

117 100

82 68.1 56.1 84.1

119 32.0 25.0 37.6





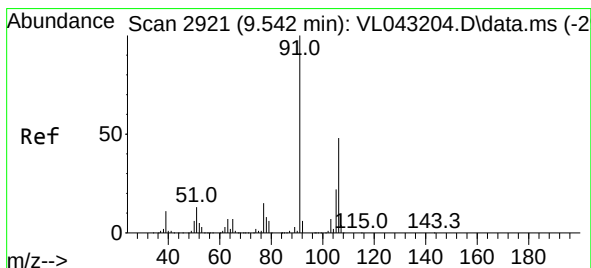
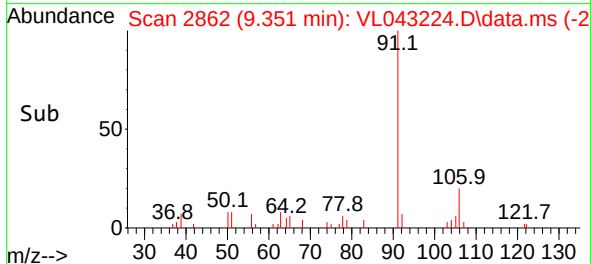
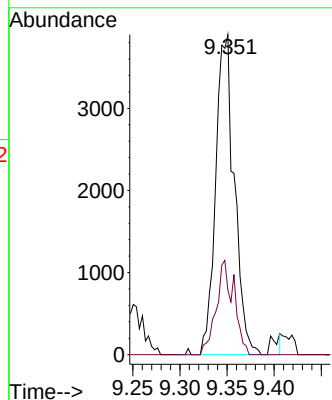
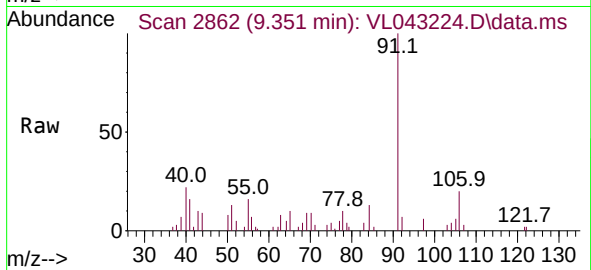
#58
Ethyl Benzene
Concen: 0.152 ppbv m
RT: 9.351 min Scan# 2862
Delta R.T. 0.006 min
Lab File: VL043224.D
Acq: 18 Nov 2025 21:33

Instrument :
MSVOA_L
ClientSampleId :
SV3

Tgt Ion: 91 Resp: 5506
Ion Ratio Lower Upper
91 100
106 20.2 22.8 34.2

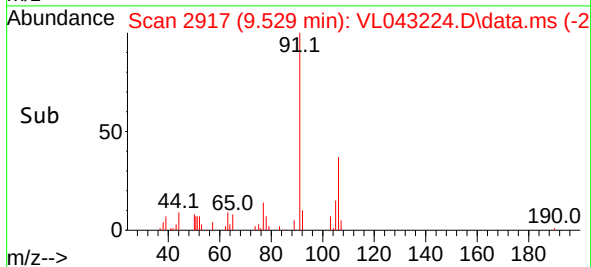
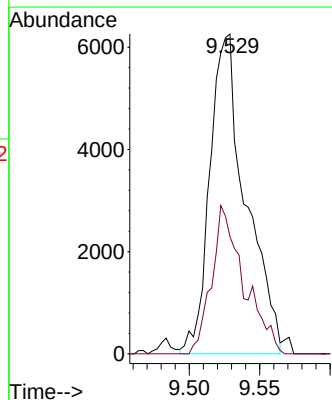
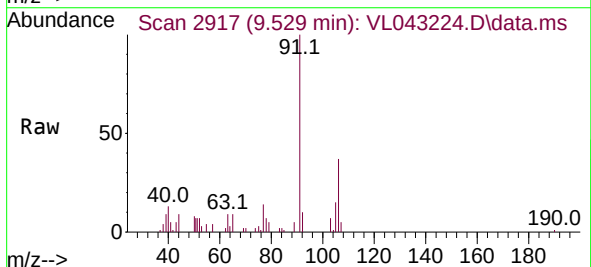
Manual Integrations
APPROVED

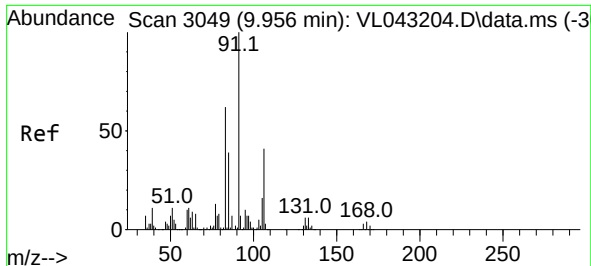
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#59
m/p-Xylene
Concen: 0.384 ppbv
RT: 9.529 min Scan# 2917
Delta R.T. -0.013 min
Lab File: VL043224.D
Acq: 18 Nov 2025 21:33

Tgt Ion: 91 Resp: 11158
Ion Ratio Lower Upper
91 100
106 41.5 36.1 54.1





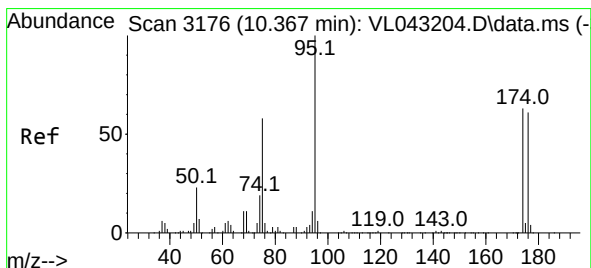
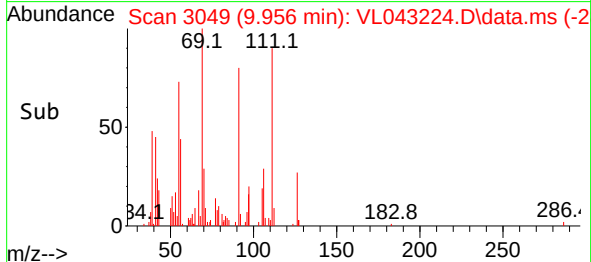
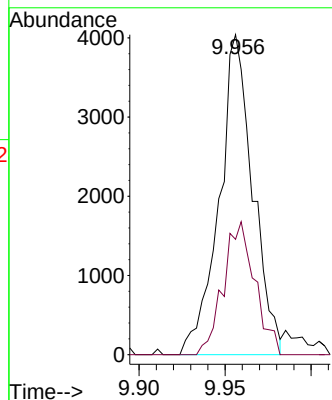
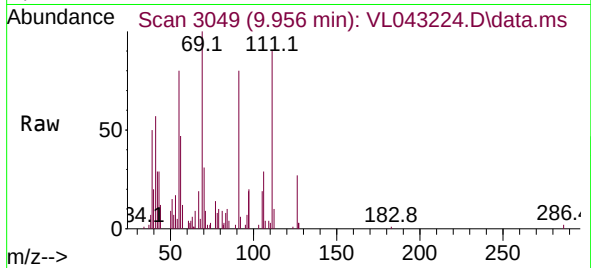
#60
o-Xylene
Concen: 0.190 ppbv
RT: 9.956 min Scan# 3049
Delta R.T. -0.000 min
Lab File: VL043224.D
Acq: 18 Nov 2025 21:33

Instrument :
MSVOA_L
ClientSampleId :
SV3

Tgt Ion: 91 Resp: 5502
Ion Ratio Lower Upper
91 100
106 38.8 20.9 62.8

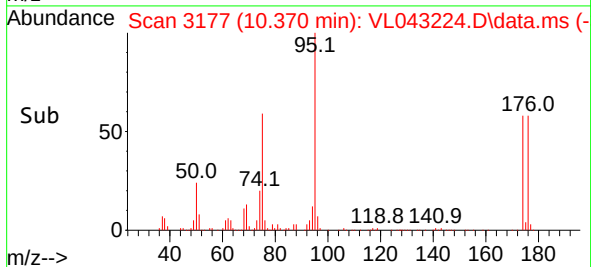
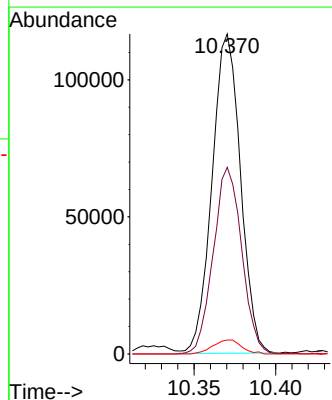
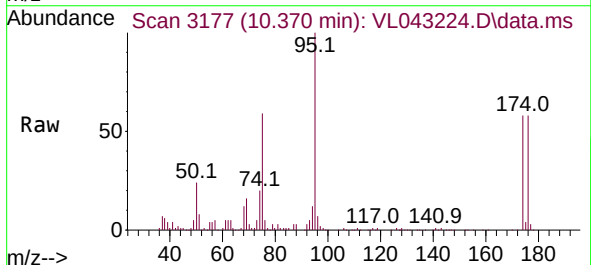
Manual Integrations
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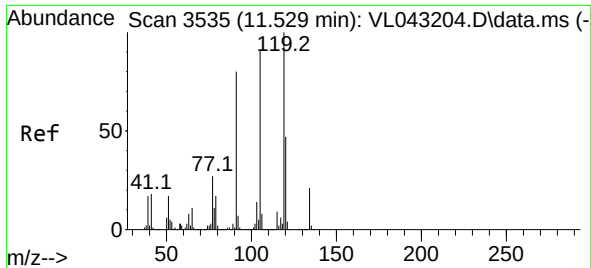
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#68
1-Bromo-4-Fluorobenzene
Concen: 10.261 ppbv
RT: 10.370 min Scan# 3177
Delta R.T. 0.003 min
Lab File: VL043224.D
Acq: 18 Nov 2025 21:33

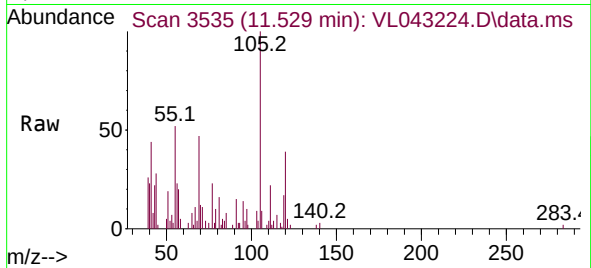
Tgt Ion: 95 Resp: 141605
Ion Ratio Lower Upper
95 100
174 58.3 50.2 75.2
175 4.4 4.1 6.1





#74
1,2,4-Trimethylbenzene
Concen: 0.128 ppbv
RT: 11.529 min Scan# 3535
Delta R.T. -0.000 min
Lab File: VL043224.D
Acq: 18 Nov 2025 21:33

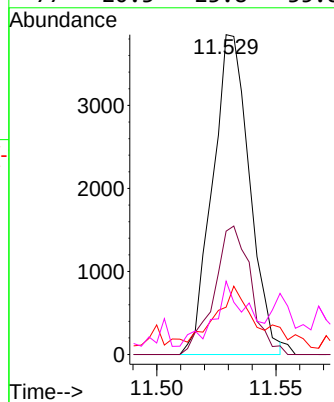
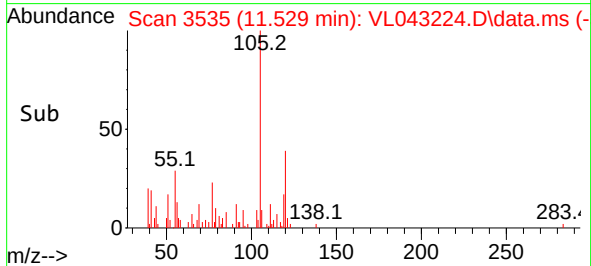
Instrument : MSVOA_L
ClientSampleId : SV3



Tgt Ion:	105	Resp:	4159
Ion Ratio	Lower	Upper	
105	100		
120	38.6	41.7	62.5
91	10.0	70.0	105.0
77	20.3	23.8	35.8

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



Report of Analysis

Client: GFE LLC
Project: 316 TO 326 WESTBURY AVE
Client Sample ID: IA3
Lab Sample ID: Q3651-06
Analytical Method: TO-15
Sample Wt/Vol: 400 mL

Date Collected: 11/11/25
Date Received: 11/14/25
SDG No.: Q3651
Matrix: Air
Test: VOCMS Group2

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qua.	DF	MDL ug/m3	LOQ / CRQL ug/m3	Date Ana.	BatchID
TARGETS									
75-01-4	Vinyl Chloride	0.030	0.080	U	1	0.080	0.080	11/18/25 17:40	VL111825
142-82-5	Heptane	1.40	5.74		1	0.70	2.05	11/18/25 17:40	VL111825
75-34-3	1,1-Dichloroethane	0.13	0.53	U	1	0.53	2.02	11/18/25 17:40	VL111825
110-82-7	Cyclohexane	0.22	0.76	U	1	0.76	1.72	11/18/25 17:40	VL111825
156-59-2	cis-1,2-Dichloroethene	0.10	0.40	U	1	0.40	1.98	11/18/25 17:40	VL111825
71-55-6	1,1,1-Trichloroethane	0.020	0.11	U	1	0.11	0.16	11/18/25 17:40	VL111825
540-84-1	2,2,4-Trimethylpentane	0.14	0.65	U	1	0.65	2.34	11/18/25 17:40	VL111825
71-43-2	Benzene	0.13	0.42	J	1	0.26	1.60	11/18/25 17:40	VL111825
79-01-6	Trichloroethene	0.020	0.11	U	1	0.11	0.16	11/18/25 17:40	VL111825
108-88-3	Toluene	53.9	203	E	1	0.60	1.88	11/18/25 17:40	VL111825
127-18-4	Tetrachloroethene	0.020	0.14	U	1	0.14	0.20	11/18/25 17:40	VL111825
100-41-4	Ethyl Benzene	0.36	1.56	J	1	0.83	2.17	11/18/25 17:40	VL111825
179601-23-1	m/p-Xylene	1.50	6.52		1	1.78	4.34	11/18/25 17:40	VL111825
95-47-6	o-Xylene	0.71	3.08		1	0.91	2.17	11/18/25 17:40	VL111825
108-67-8	1,3,5-Trimethylbenzene	0.18	0.88	U	1	0.88	2.46	11/18/25 17:40	VL111825
95-63-6	1,2,4-Trimethylbenzene	0.37	1.82	J	1	0.88	2.46	11/18/25 17:40	VL111825
91-20-3	Naphthalene	0.18	0.94		1	0.050	0.52	11/18/25 17:40	VL111825
110-54-3	Hexane	1.40	4.93		1	0.56	1.76	11/18/25 17:40	VL111825

SURROGATES

460-00-4	1-Bromo-4-Fluorobenzene	10.0		65 - 135	100%	SPK: 10
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INTERNAL STANDARDS

	Area Count	
74-97-5	Bromochloromethane	99700
540-36-3	1,4-Difluorobenzene	263000
3114-55-4	Chlorobenzene-d5	208000

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\VL111825\
 Data File : VL043217.D
 Acq On : 18 Nov 2025 17:40
 Operator : SY/MD
 Sample : Q3651-06
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA3

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 11/19/2025
 Supervised By :Mahesh Dadoda 11/19/2025

Quant Time: Nov 19 01:37:42 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M

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

QLast Update : Wed Nov 19 01:11:25 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.790	49	99721	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.959	114	263141	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.878	117	208459	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.374	95	152659	9.991	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.900%
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.499	85	5540	0.394	ppbv	99
3) Chlorodifluoromethane	1.476	51	11837m	0.856	ppbv	
4) Chloromethane	1.534	50	27687	5.265	ppbv #	87
9) Propene	1.489	41	5701	0.971	ppbv #	1
10) Heptane	4.981	43	24657m	1.410	ppbv	
11) Trichlorofluoromethane	1.881	101	2691	0.197	ppbv	89
13) Ethanol	1.722	45	202331	97.961	ppbv	99
15) Acetone	1.835	43	83575	6.032	ppbv	98
17) tert-Butyl alcohol	2.042	59	11636	0.640	ppbv #	84
19) Isopropyl Alcohol	1.887	45	9694	1.238	ppbv #	1
20) Methylene Chloride	2.065	84	23751	5.462	ppbv	97
26) Hexane	2.826	57	18114	1.383	ppbv #	53
27) Carbon Disulfide	2.153	76	6178	0.462	ppbv #	59
29) Chloroform	2.848	83	4559	0.245	ppbv #	81
30) Cyclohexane	3.858	84	1847m	0.168	ppbv	
34) 2-Butanone	2.554	43	521507	28.076	ppbv	99
35) Carbon Tetrachloride	3.768	117	1829m	0.092	ppbv	
36) Benzene	3.661	78	3353	0.133	ppbv #	90
50) 4-Methyl-2-Pentanone	5.768	43	4914m	0.188	ppbv	
53) Toluene	6.936	91	1607514	53.871	ppbv	98
58) Ethyl Benzene	9.354	91	14355	0.358	ppbv	99
59) m/p-Xylene	9.529	91	46716m	1.452	ppbv	
60) o-Xylene	9.963	91	22645	0.705	ppbv	92
61) Styrene	9.872	104	2129	0.151	ppbv	90
74) 1,2,4-Trimethylbenzene	11.536	105	13137	0.367	ppbv #	55
79) Naphthalene	13.516	128	5717	0.180	ppbv #	89

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

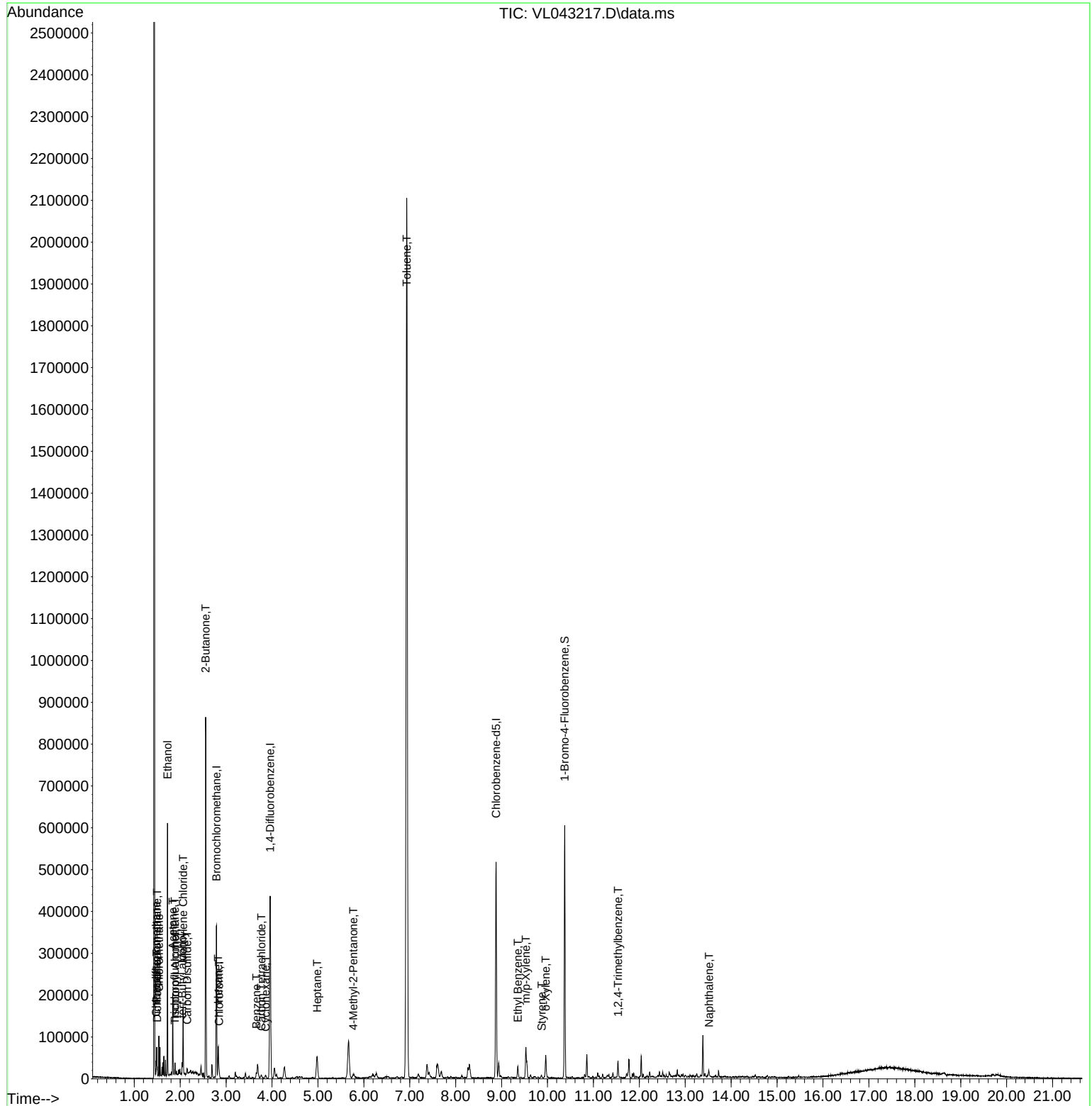
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111825\
Data File : VL043217.D
Acq On : 18 Nov 2025 17:40
Operator : SY/MD
Sample : Q3651-06
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

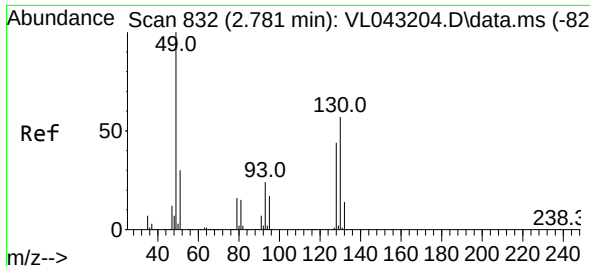
Instrument :
MSVOA_L
ClientSampleId :
IA3

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025

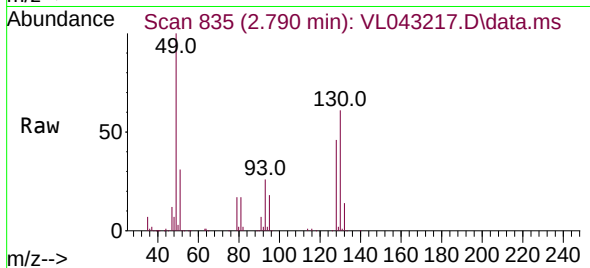
Quant Time: Nov 19 01:37:42 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Wed Nov 19 01:11:25 2025
Response via : Initial Calibration





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.790 min Scan# 832
Delta R.T. 0.009 min
Lab File: VL043217.D
Acq: 18 Nov 2025 17:40

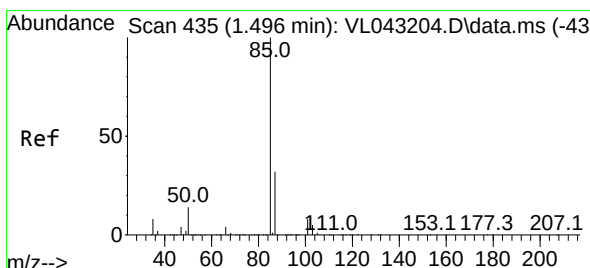
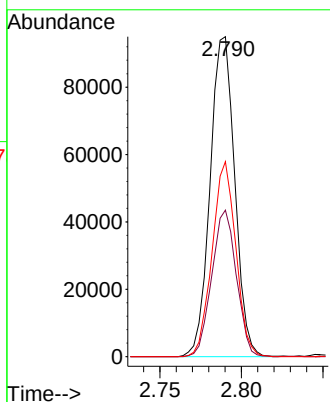
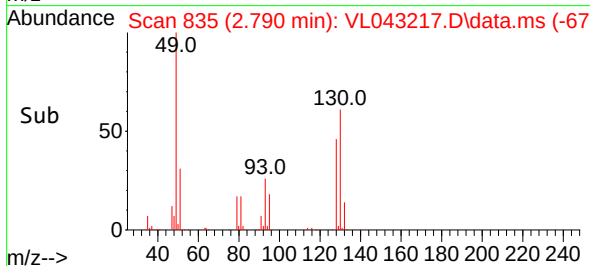
Instrument :
MSVOA_L
ClientSampleId :
IA3



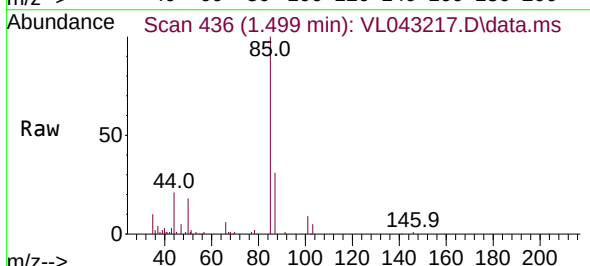
Tgt Ion: 49 Resp: 9972
Ion Ratio Lower Upper
49 100
128 45.6 23.0 69.0
130 58.5 29.9 89.7

Manual Integrations
APPROVED

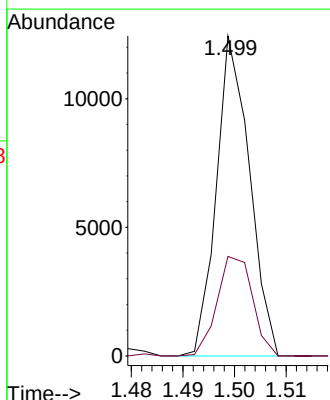
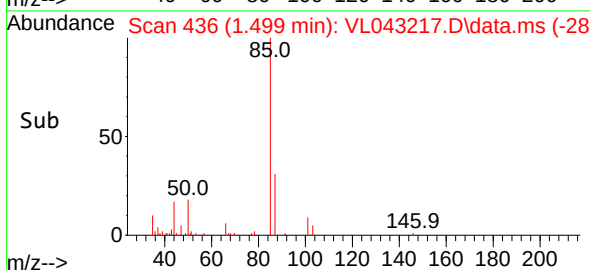
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025

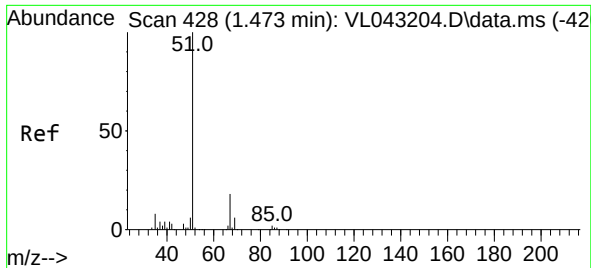


#2
Dichlorodifluoromethane
Concen: 0.394 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.003 min
Lab File: VL043217.D
Acq: 18 Nov 2025 17:40



Tgt Ion: 85 Resp: 5540
Ion Ratio Lower Upper
85 100
87 31.1 25.4 38.2





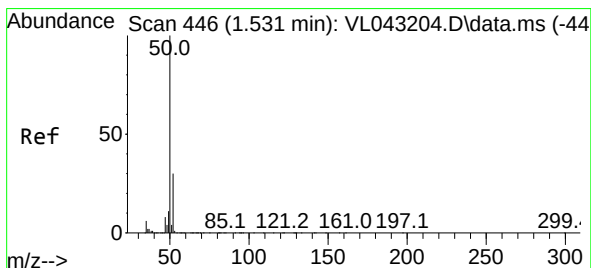
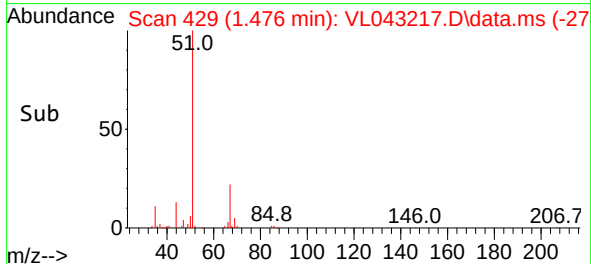
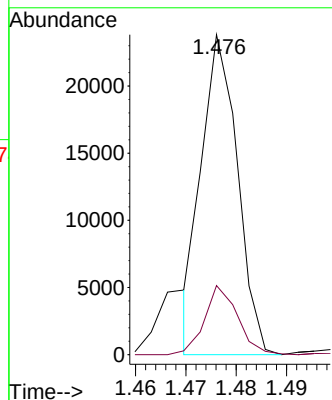
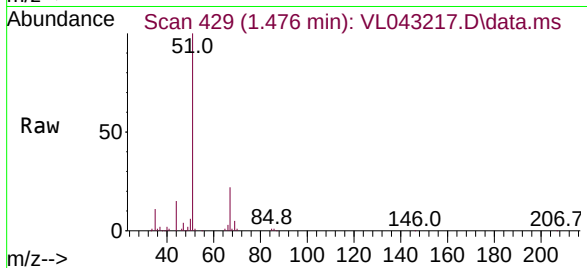
#3
Chlorodifluoromethane
Concen: 0.856 ppbv m
RT: 1.476 min Scan# 41
Delta R.T. 0.003 min
Lab File: VL043217.D
Acq: 18 Nov 2025 17:40

Instrument :
MSVOA_L
ClientSampleId :
IA3

Tgt Ion: 51 Resp: 1183
Ion Ratio Lower Upper
51 100
67 20.4 14.9 22.3

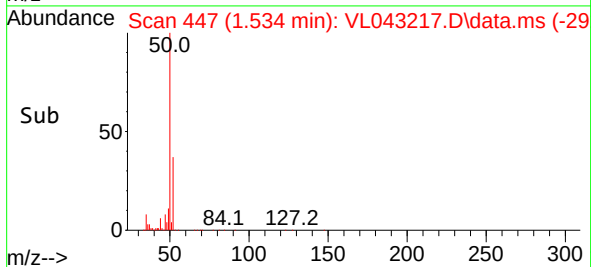
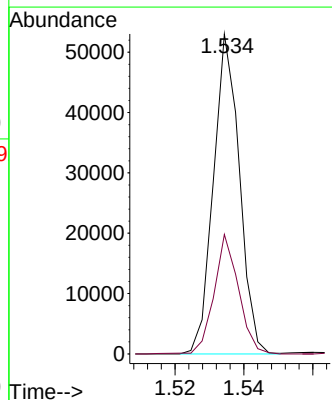
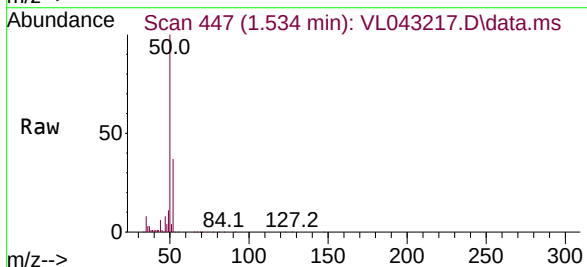
Manual Integrations
APPROVED

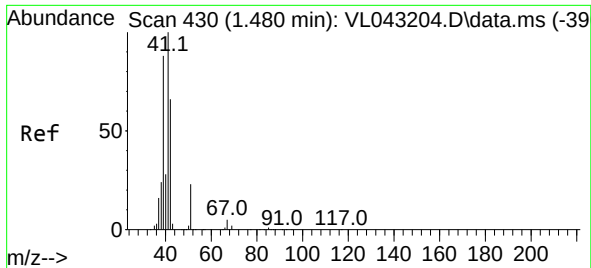
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#4
Chloromethane
Concen: 5.265 ppbv
RT: 1.534 min Scan# 447
Delta R.T. 0.003 min
Lab File: VL043217.D
Acq: 18 Nov 2025 17:40

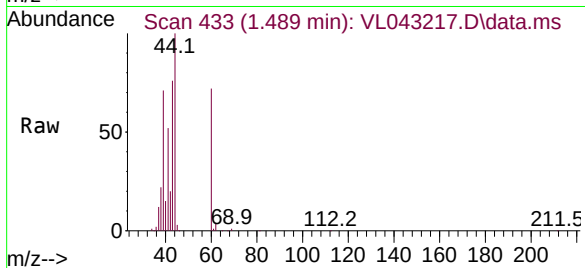
Tgt Ion: 50 Resp: 27687
Ion Ratio Lower Upper
50 100
52 37.3 24.1 36.1#





#9
 Propene
 Concen: 0.971 ppbv
 RT: 1.489 min Scan# 431
 Delta R.T. 0.009 min
 Lab File: VL043217.D
 Acq: 18 Nov 2025 17:40

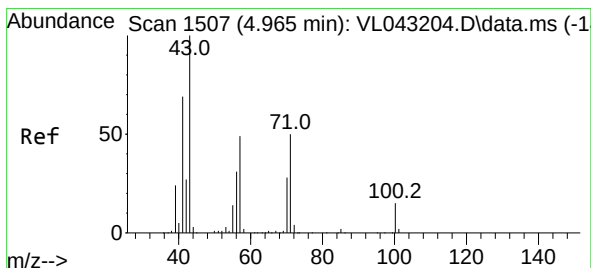
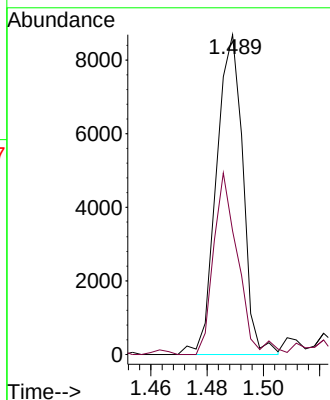
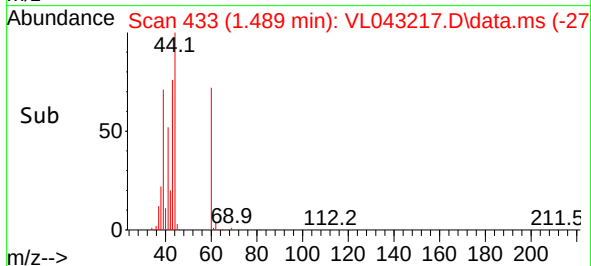
Instrument :
 MSVOA_L
 ClientSampleId :
 IA3



Tgt Ion: 41 Resp: 5701
 Ion Ratio Lower Upper
 41 100
 42 53.6 3.7 5.5

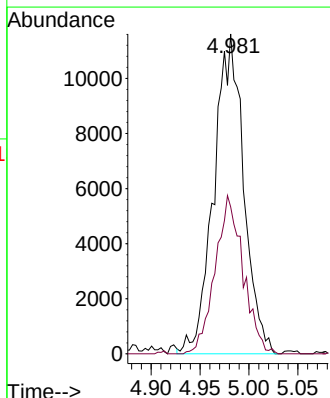
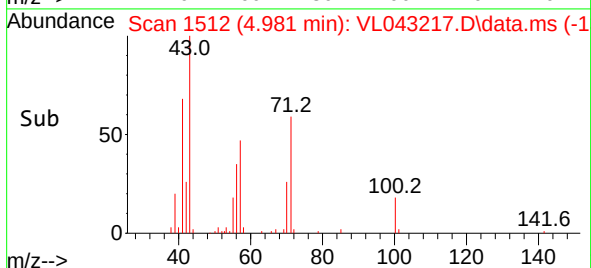
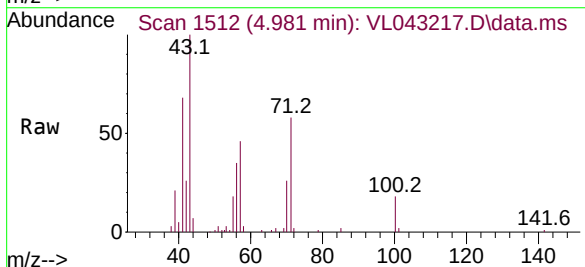
Manual Integrations
 APPROVED

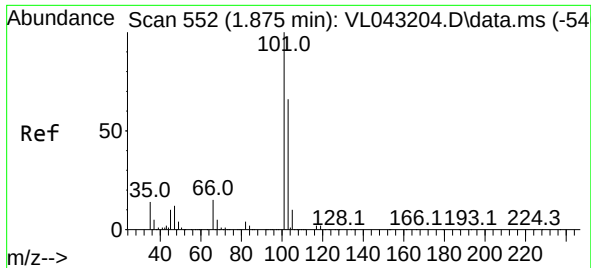
Reviewed By :Semsettin Yesilyurt 11/19/2025
 Supervised By :Mahesh Dadoda 11/19/2025



#10
 Heptane
 Concen: 1.410 ppbv m
 RT: 4.981 min Scan# 1512
 Delta R.T. 0.016 min
 Lab File: VL043217.D
 Acq: 18 Nov 2025 17:40

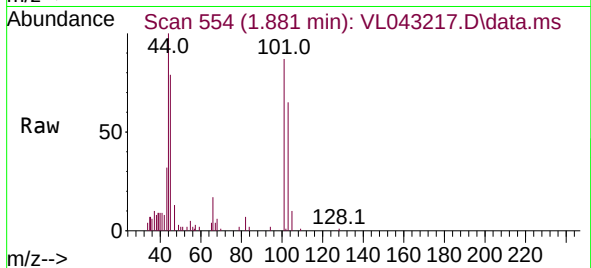
Tgt Ion: 43 Resp: 24657
 Ion Ratio Lower Upper
 43 100
 57 0.0 39.7 59.5





#11
Trichlorofluoromethane
Concen: 0.197 ppbv
RT: 1.881 min Scan# 505
Delta R.T. 0.006 min
Lab File: VL043217.D
Acq: 18 Nov 2025 17:40

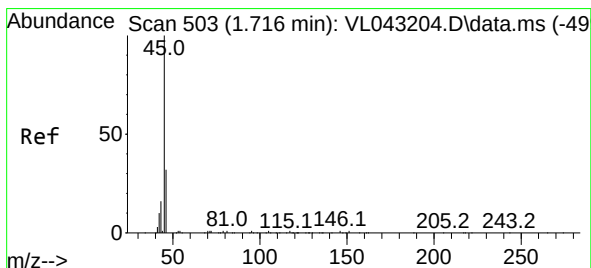
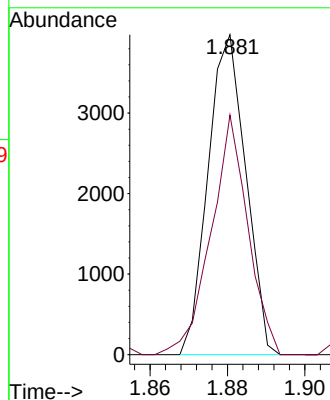
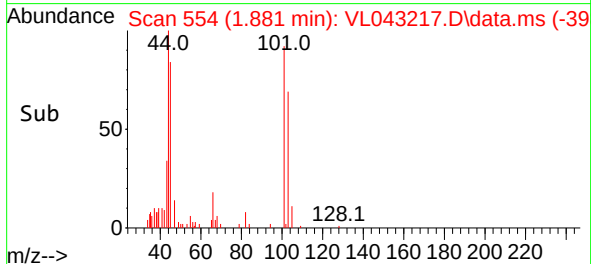
Instrument :
MSVOA_L
ClientSampleId :
IA3



Tgt Ion:101 Resp: 2691
Ion Ratio Lower Upper
101 100
103 74.9 52.6 79.0

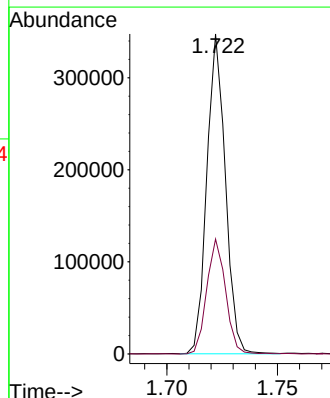
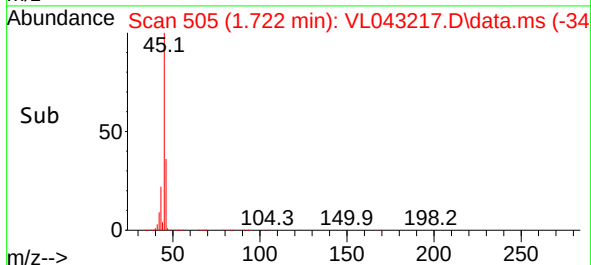
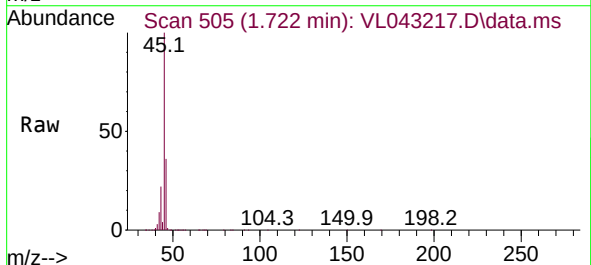
Manual Integrations
APPROVED

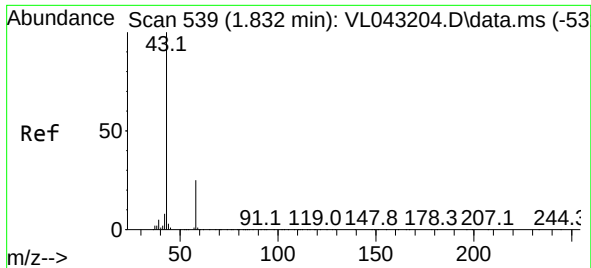
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#13
Ethanol
Concen: 97.961 ppbv
RT: 1.722 min Scan# 505
Delta R.T. 0.006 min
Lab File: VL043217.D
Acq: 18 Nov 2025 17:40

Tgt Ion: 45 Resp: 202331
Ion Ratio Lower Upper
45 100
46 36.6 15.0 59.8





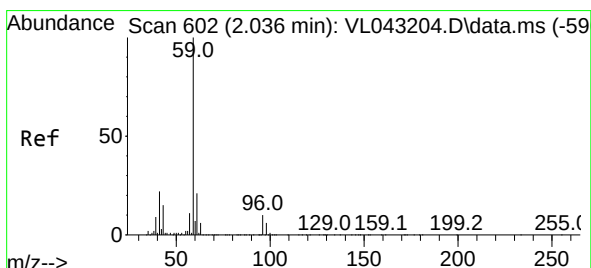
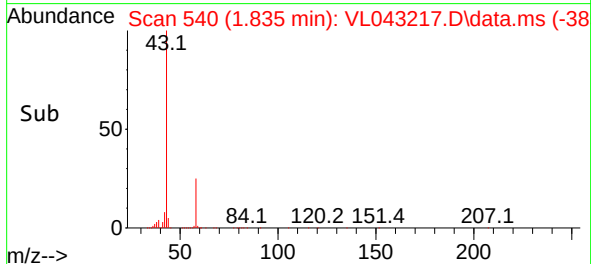
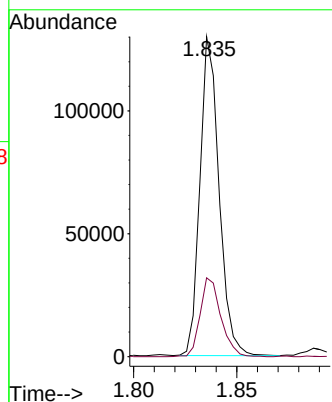
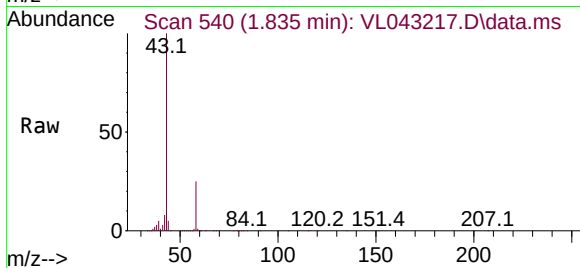
#15
Acetone
Concen: 6.032 ppbv
RT: 1.835 min Scan# 54
Delta R.T. 0.003 min
Lab File: VL043217.D
Acq: 18 Nov 2025 17:40

Instrument :
MSVOA_L
ClientSampleId :
IA3

Tgt Ion: 43 Resp: 83575
Ion Ratio Lower Upper
43 100
58 26.9 20.7 31.1

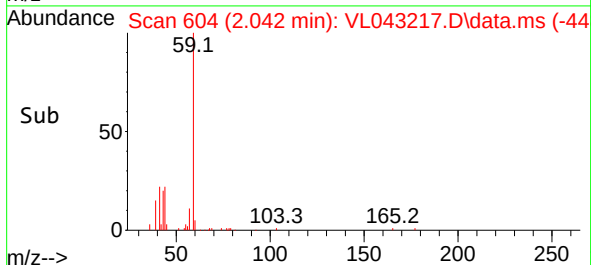
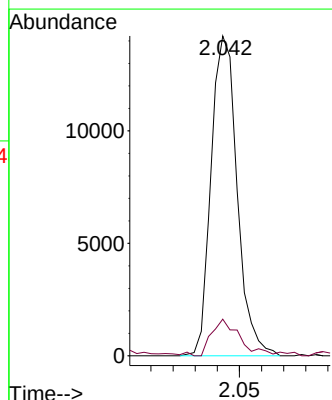
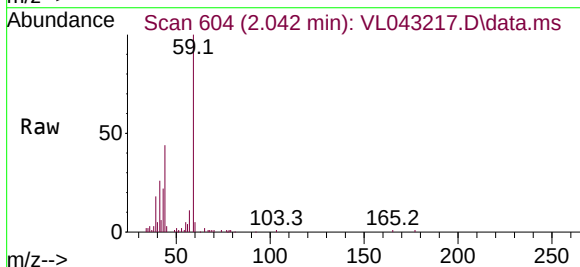
Manual Integrations
APPROVED

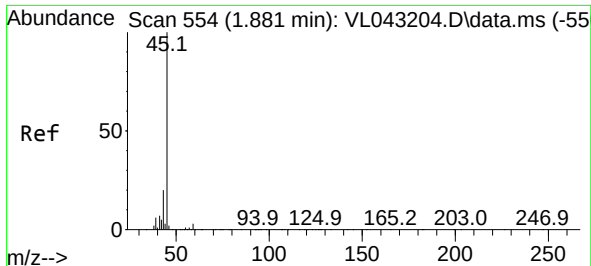
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#17
tert-Butyl alcohol
Concen: 0.640 ppbv
RT: 2.042 min Scan# 604
Delta R.T. 0.006 min
Lab File: VL043217.D
Acq: 18 Nov 2025 17:40

Tgt Ion: 59 Resp: 11636
Ion Ratio Lower Upper
59 100
57 17.3 9.0 13.4#





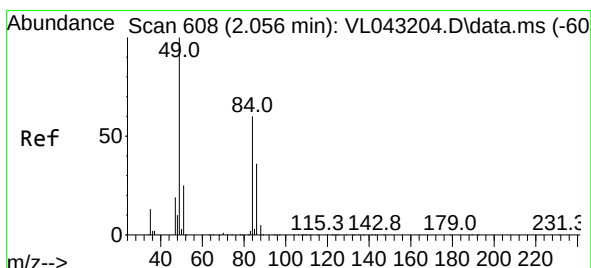
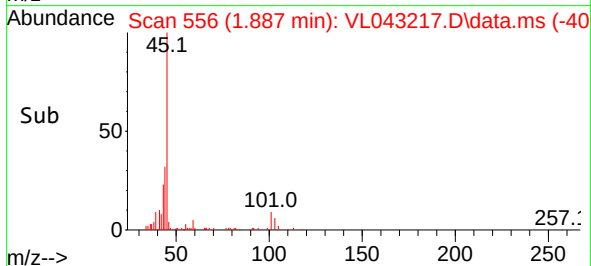
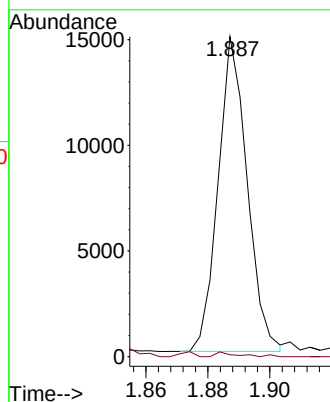
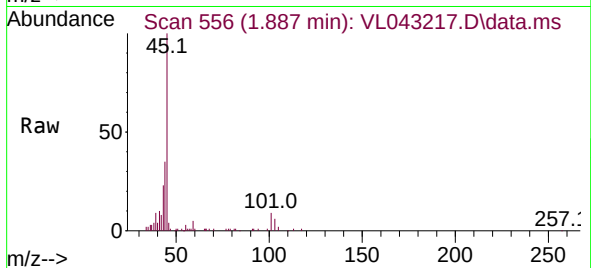
#19
Isopropyl Alcohol
Concen: 1.238 ppbv
RT: 1.887 min Scan# 511
Delta R.T. 0.006 min
Lab File: VL043217.D
Acq: 18 Nov 2025 17:40

Instrument :
MSVOA_L
ClientSampleId :
IA3

Tgt Ion: 45 Resp: 9694
Ion Ratio Lower Upper
45 100
58 231.6 31.3 46.9

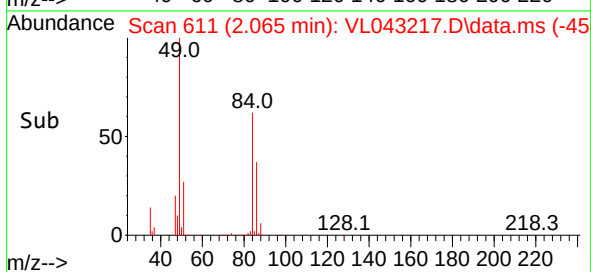
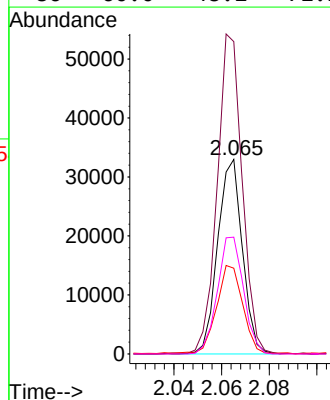
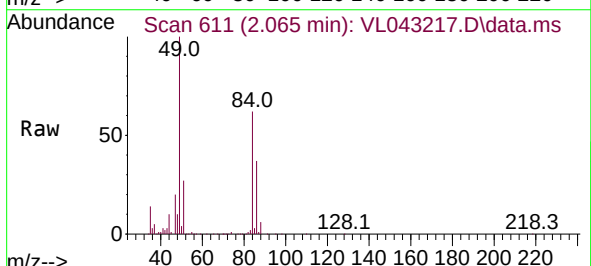
Manual Integrations
APPROVED

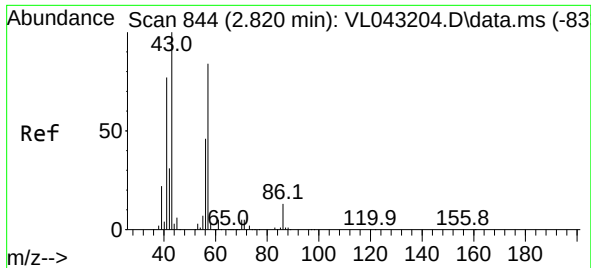
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#20
Methylene Chloride
Concen: 5.462 ppbv
RT: 2.065 min Scan# 611
Delta R.T. 0.009 min
Lab File: VL043217.D
Acq: 18 Nov 2025 17:40

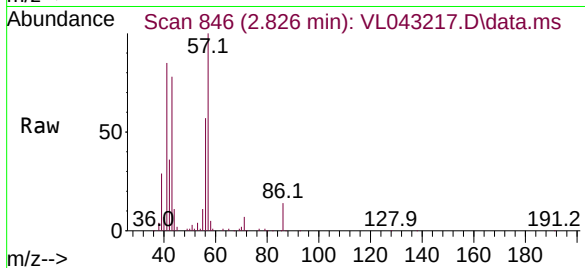
Tgt Ion: 84 Resp: 23751
Ion Ratio Lower Upper
84 100
49 160.5 132.9 199.3
51 43.5 34.8 52.2
86 60.0 48.2 72.2





#26
Hexane
Concen: 1.383 ppbv
RT: 2.826 min Scan# 844
Delta R.T. 0.006 min
Lab File: VL043217.D
Acq: 18 Nov 2025 17:40

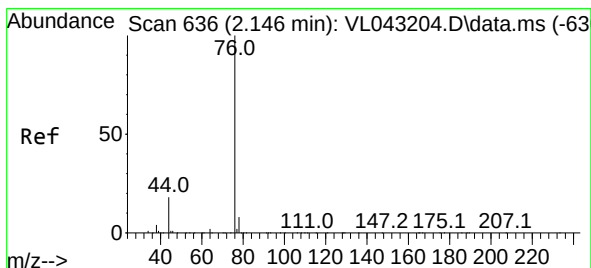
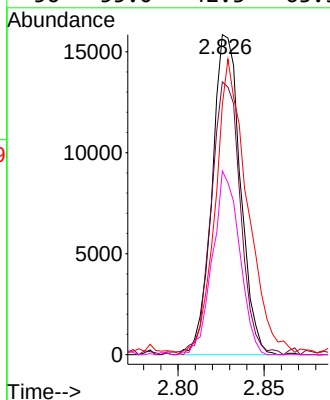
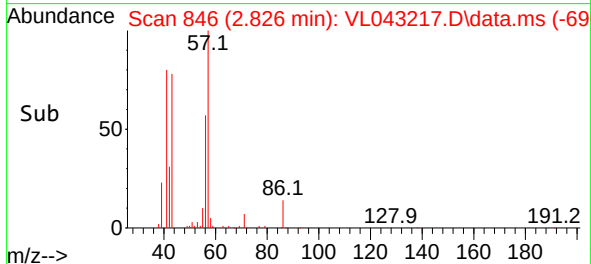
Instrument :
MSVOA_L
ClientSampleId :
IA3



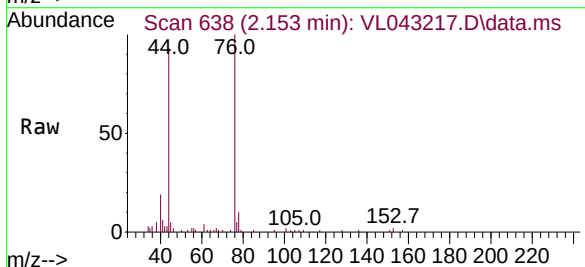
Tgt Ion: 57 Resp: 18114
Ion Ratio Lower Upper
57 100
41 88.6 74.6 111.8
43 102.4 179.0 268.4
56 55.0 42.3 63.5

Manual Integrations
APPROVED

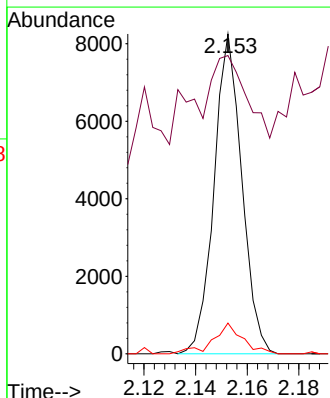
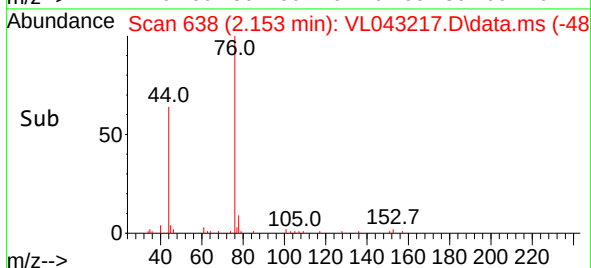
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025

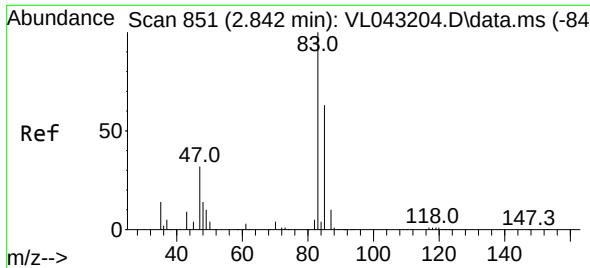


#27
Carbon Disulfide
Concen: 0.462 ppbv
RT: 2.153 min Scan# 638
Delta R.T. 0.006 min
Lab File: VL043217.D
Acq: 18 Nov 2025 17:40



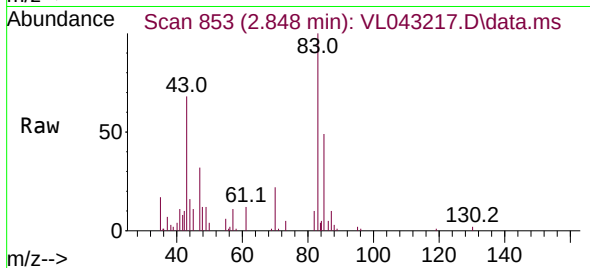
Tgt Ion: 76 Resp: 6178
Ion Ratio Lower Upper
76 100
44 49.4 16.1 24.1#
78 10.4 9.6 14.4





#29
Chloroform
Concen: 0.245 ppbv
RT: 2.848 min Scan# 851
Delta R.T. 0.006 min
Lab File: VL043217.D
Acq: 18 Nov 2025 17:40

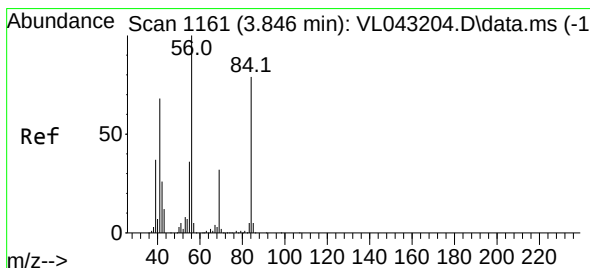
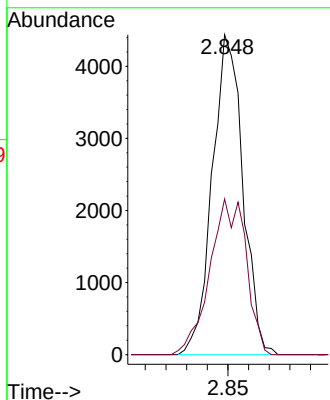
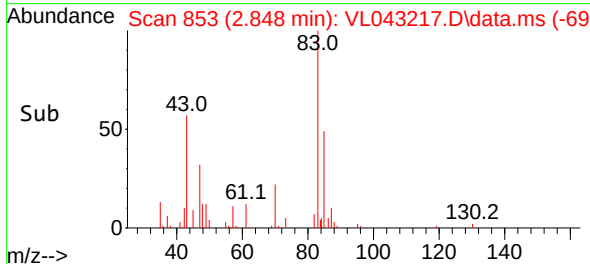
Instrument :
MSVOA_L
ClientSampleId :
IA3



Tgt Ion: 83 Resp: 4559
Ion Ratio Lower Upper
83 100
85 48.6 50.5 75.7

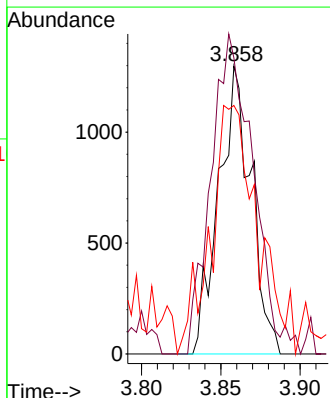
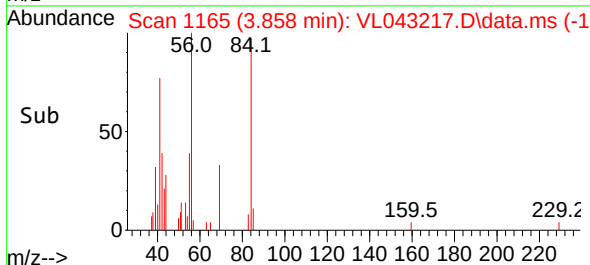
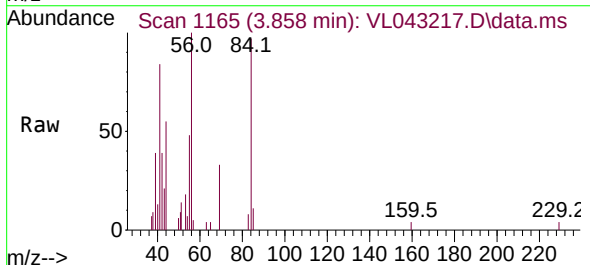
Manual Integrations
APPROVED

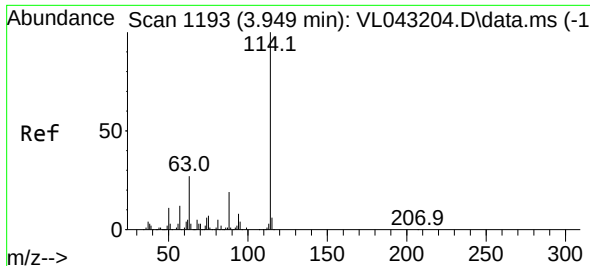
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#30
Cyclohexane
Concen: 0.168 ppbv m
RT: 3.858 min Scan# 1165
Delta R.T. 0.013 min
Lab File: VL043217.D
Acq: 18 Nov 2025 17:40

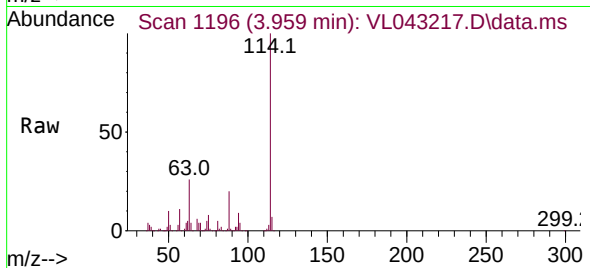
Tgt Ion: 84 Resp: 1847
Ion Ratio Lower Upper
84 100
56 144.5 104.7 157.1
41 141.1 69.0 103.6





#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.959 min Scan# 1196
Delta R.T. 0.009 min
Lab File: VL043217.D
Acq: 18 Nov 2025 17:40

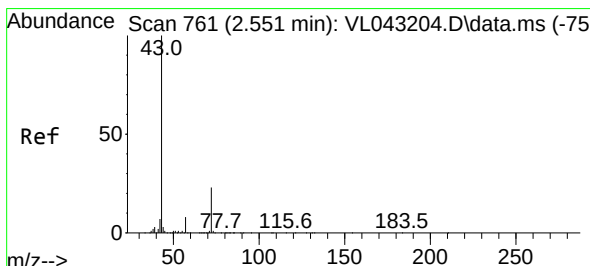
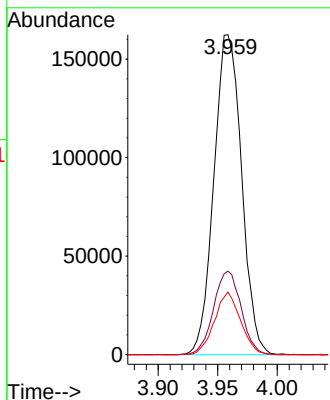
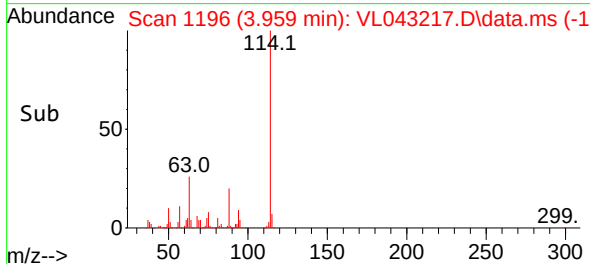
Instrument :
MSVOA_L
ClientSampleId :
IA3



Tgt Ion:114 Resp: 26314
Ion Ratio Lower Upper
114 100
63 25.9 21.0 31.6
88 18.4 14.9 22.3

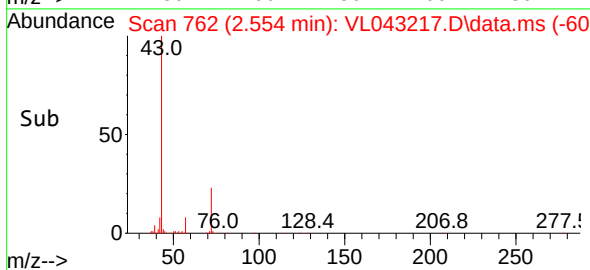
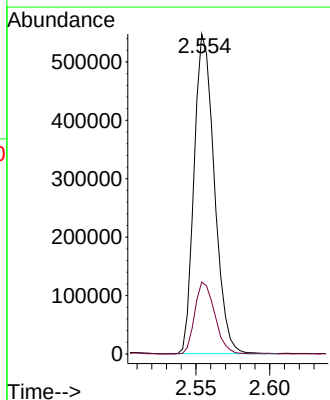
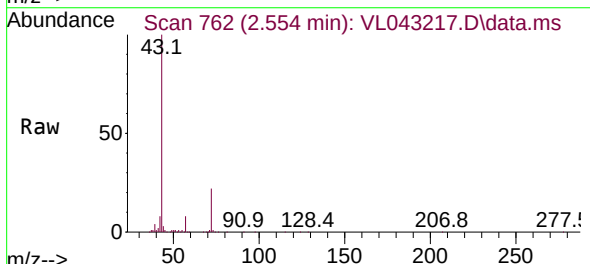
Manual Integrations
APPROVED

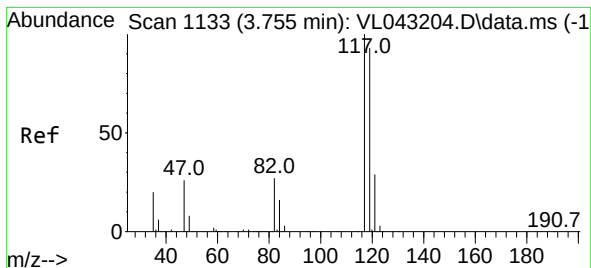
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#34
2-Butanone
Concen: 28.076 ppbv
RT: 2.554 min Scan# 762
Delta R.T. 0.003 min
Lab File: VL043217.D
Acq: 18 Nov 2025 17:40

Tgt Ion: 43 Resp: 521507
Ion Ratio Lower Upper
43 100
72 22.3 18.1 27.1





#35

Carbon Tetrachloride

Concen: 0.092 ppbv

RT: 3.768 min Scan# 1133

Delta R.T. 0.013 min

Lab File: VL043217.D

Acq: 18 Nov 2025 17:40

Instrument :

MSVOA_L

ClientSampleId :

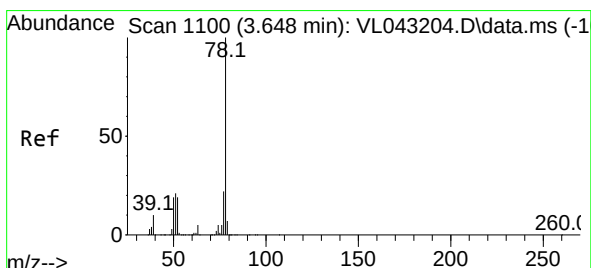
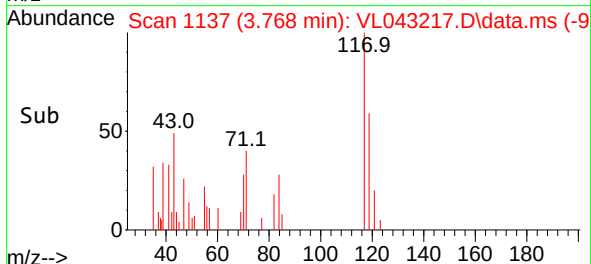
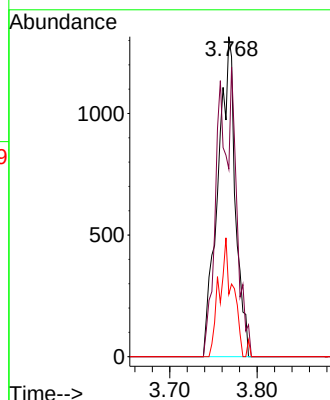
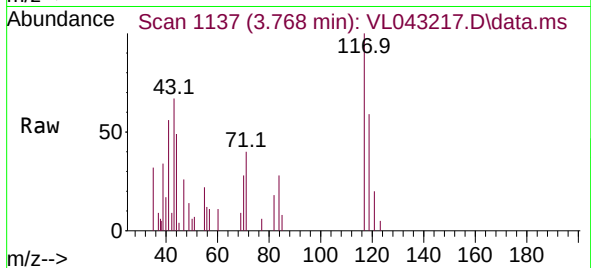
IA3

Tgt Ion: 117 Resp: 1829
 Ion Ratio Lower Upper
 117 100
 119 58.7 74.6 112.0
 121 19.5 23.2 34.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/19/2025
 Supervised By :Mahesh Dadoda 11/19/2025



#36

Benzene

Concen: 0.133 ppbv

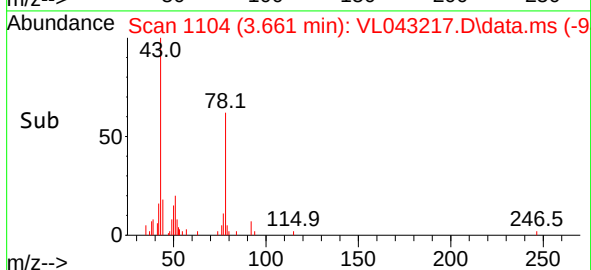
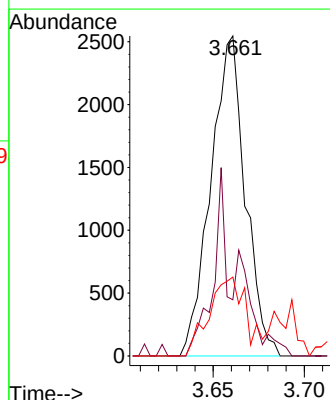
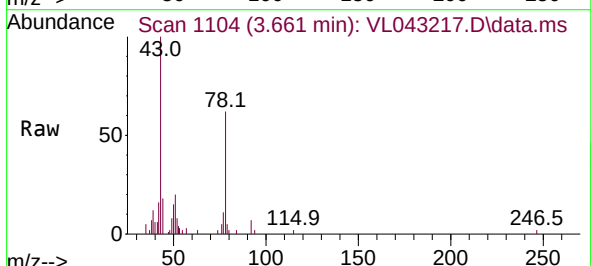
RT: 3.661 min Scan# 1104

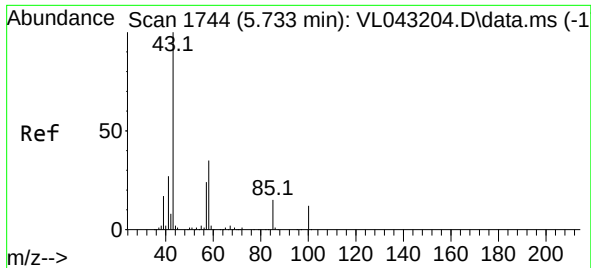
Delta R.T. 0.013 min

Lab File: VL043217.D

Acq: 18 Nov 2025 17:40

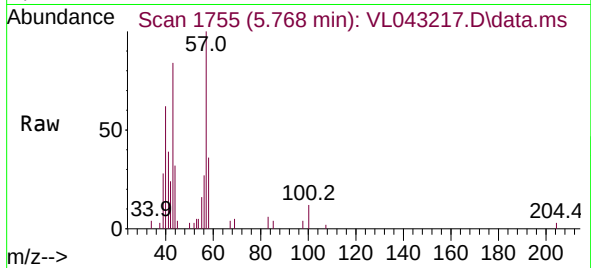
Tgt Ion: 78 Resp: 3353
 Ion Ratio Lower Upper
 78 100
 77 17.6 17.5 26.3
 50 24.7 15.5 23.3





#50
4-Methyl-2-Pentanone
Concen: 0.188 ppbv m
RT: 5.768 min Scan# 1744
Delta R.T. 0.035 min
Lab File: VL043217.D
Acq: 18 Nov 2025 17:40

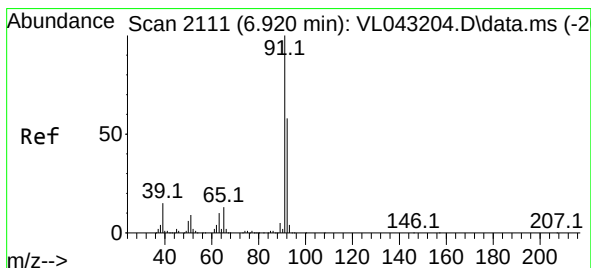
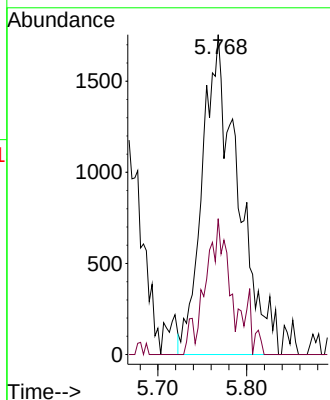
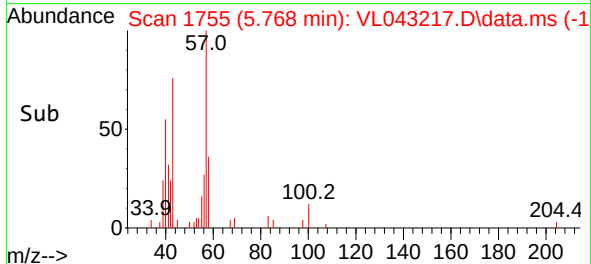
Instrument :
MSVOA_L
ClientSampleId :
IA3



Tgt Ion: 43 Resp: 4914
Ion Ratio Lower Upper
43 100
58 32.8 28.4 42.6

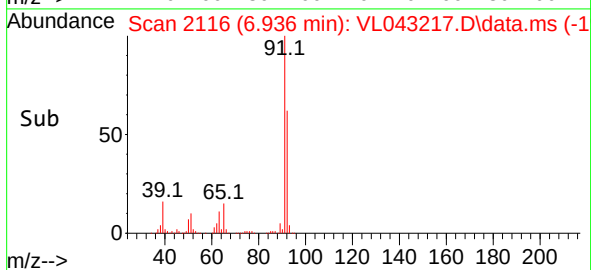
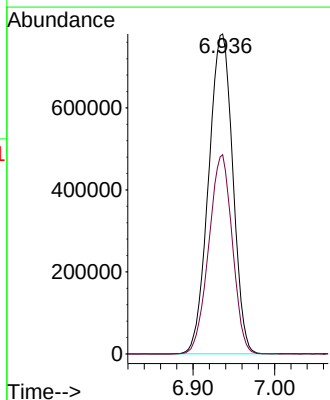
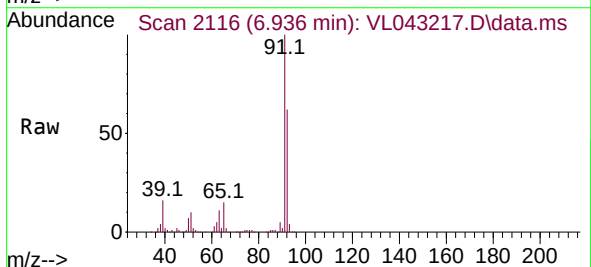
Manual Integrations
APPROVED

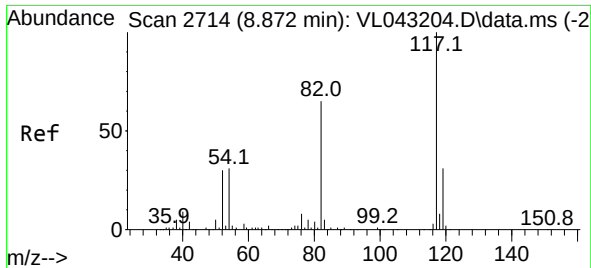
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#53
Toluene
Concen: 53.871 ppbv
RT: 6.936 min Scan# 2116
Delta R.T. 0.016 min
Lab File: VL043217.D
Acq: 18 Nov 2025 17:40

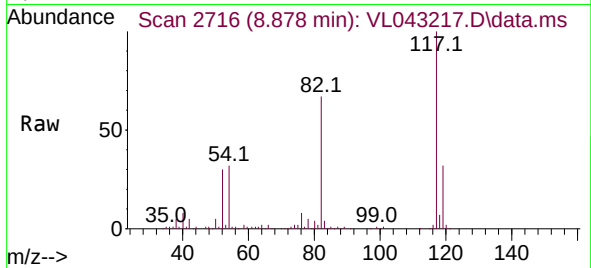
Tgt Ion: 91 Resp: 1607514
Ion Ratio Lower Upper
91 100
92 60.6 47.4 71.0





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.878 min Scan# 21
Delta R.T. 0.006 min
Lab File: VL043217.D
Acq: 18 Nov 2025 17:40

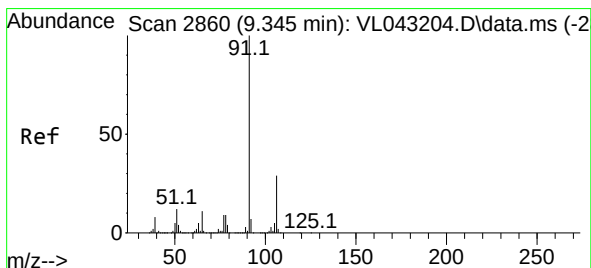
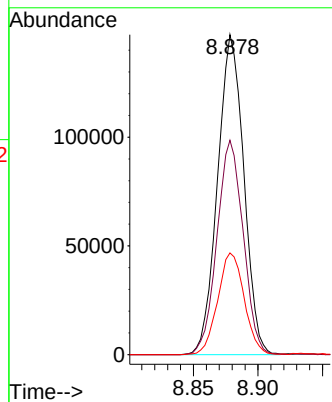
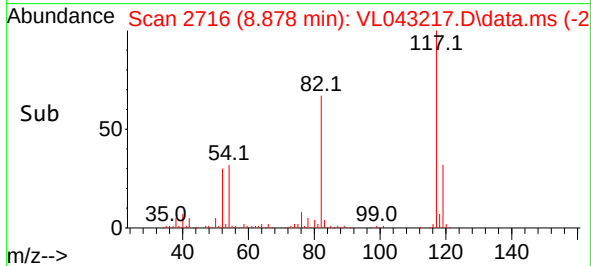
Instrument :
MSVOA_L
ClientSampleId :
IA3



Tgt Ion: 117 Resp: 208455
Ion Ratio Lower Upper
117 100
82 67.1 56.1 84.1
119 32.1 25.0 37.6

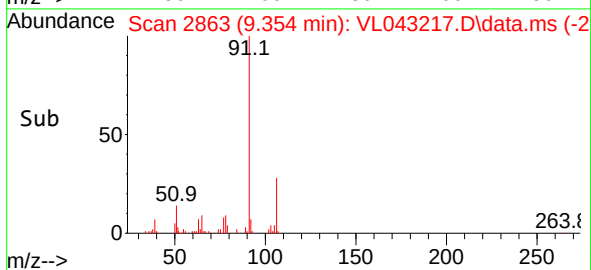
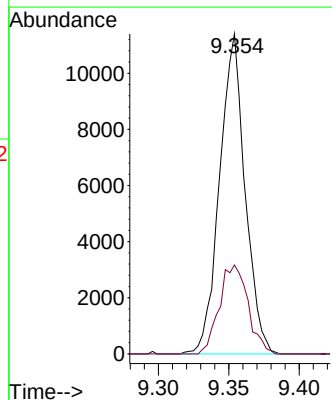
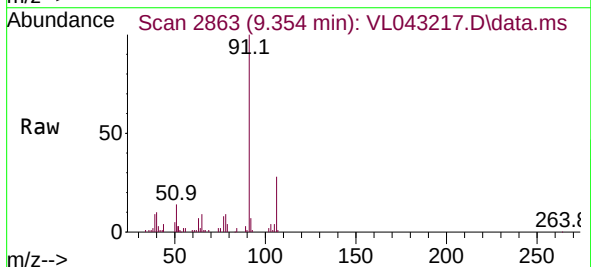
Manual Integrations
APPROVED

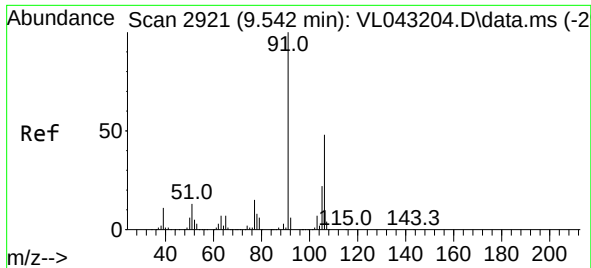
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#58
Ethyl Benzene
Concen: 0.358 ppbv
RT: 9.354 min Scan# 2863
Delta R.T. 0.009 min
Lab File: VL043217.D
Acq: 18 Nov 2025 17:40

Tgt Ion: 91 Resp: 14355
Ion Ratio Lower Upper
91 100
106 27.8 22.8 34.2





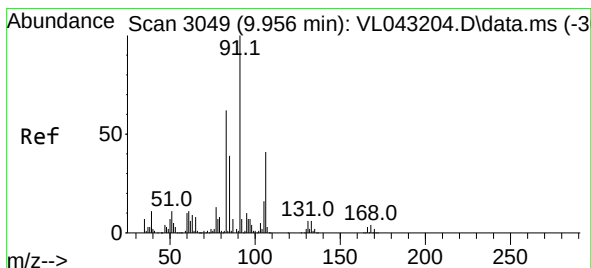
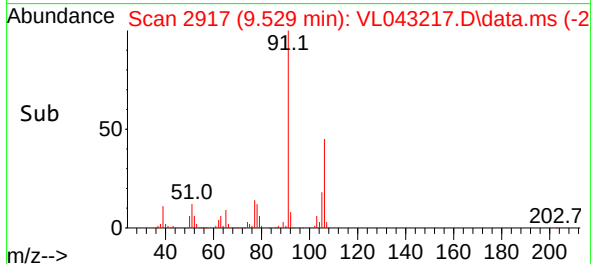
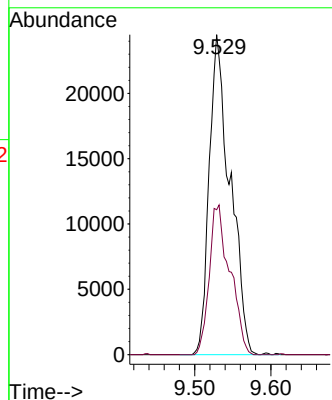
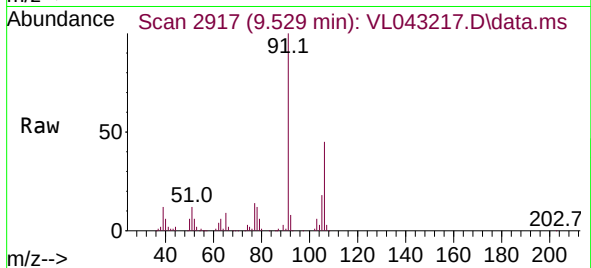
#59
m/p-Xylene
Concen: 1.452 ppbv m
RT: 9.529 min Scan# 2917
Delta R.T. -0.013 min
Lab File: VL043217.D
Acq: 18 Nov 2025 17:40

Instrument :
MSVOA_L
ClientSampleId :
IA3

Tgt Ion: 91 Resp: 46716
Ion Ratio Lower Upper
91 100
106 0.0 36.1 54.1

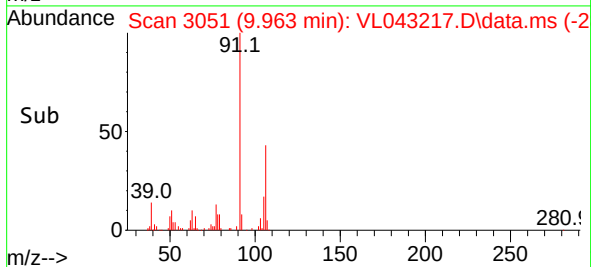
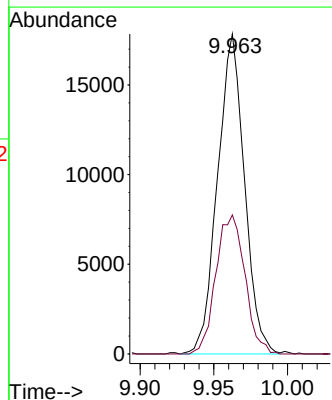
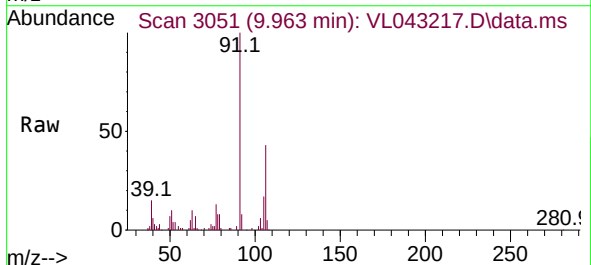
Manual Integrations
APPROVED

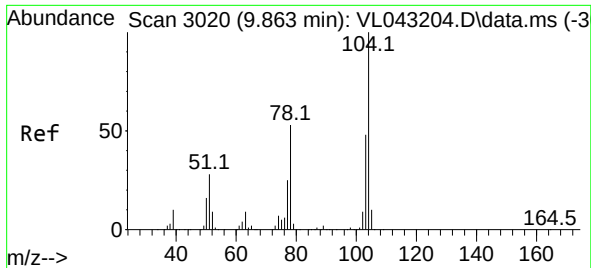
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#60
o-Xylene
Concen: 0.705 ppbv
RT: 9.963 min Scan# 3051
Delta R.T. 0.006 min
Lab File: VL043217.D
Acq: 18 Nov 2025 17:40

Tgt Ion: 91 Resp: 22645
Ion Ratio Lower Upper
91 100
106 46.8 20.9 62.8





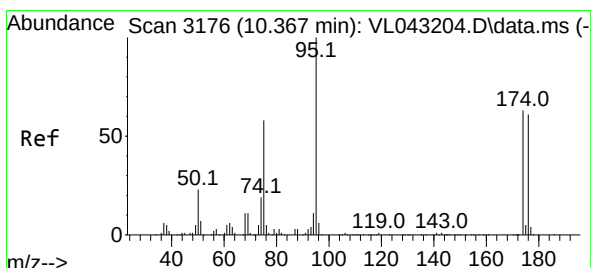
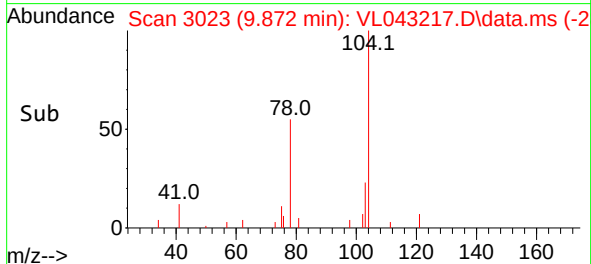
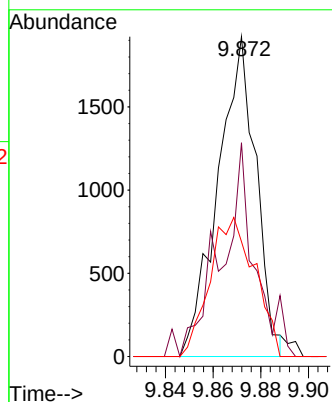
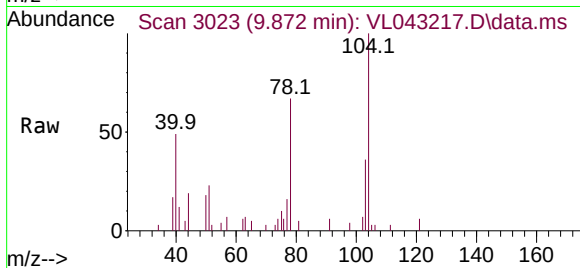
#61
Styrene
Concen: 0.151 ppbv
RT: 9.872 min Scan# 3020
Delta R.T. 0.009 min
Lab File: VL043217.D
Acq: 18 Nov 2025 17:40

Instrument :
MSVOA_L
ClientSampleId :
IA3

Tgt Ion:104 Resp: 2129
Ion Ratio Lower Upper
104 100
78 60.4 42.1 63.1
103 51.7 37.2 55.8

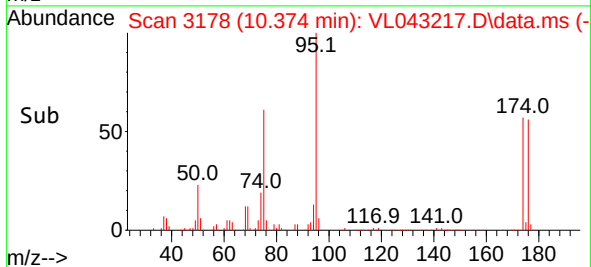
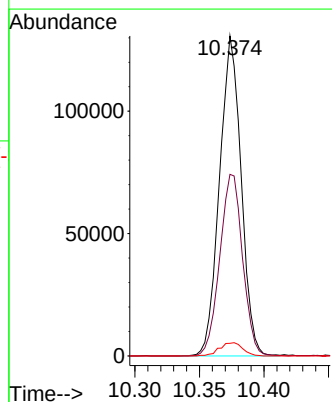
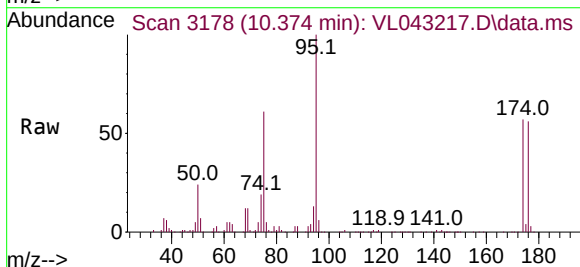
Manual Integrations
APPROVED

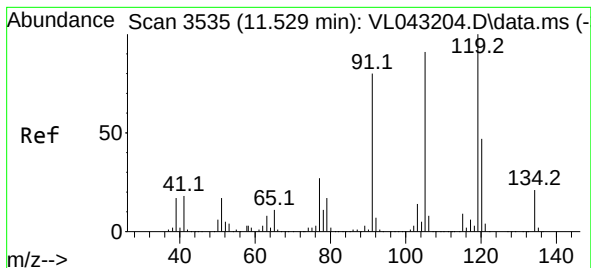
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#68
1-Bromo-4-Fluorobenzene
Concen: 9.991 ppbv
RT: 10.374 min Scan# 3178
Delta R.T. 0.006 min
Lab File: VL043217.D
Acq: 18 Nov 2025 17:40

Tgt Ion: 95 Resp: 152659
Ion Ratio Lower Upper
95 100
174 59.9 50.2 75.2
175 4.4 4.1 6.1





#74

1,2,4-Trimethylbenzene

Concen: 0.367 ppbv

RT: 11.536 min Scan# 3537

Delta R.T. 0.006 min

Lab File: VL043217.D

Acq: 18 Nov 2025 17:40

Instrument :

MSVOA_L

ClientSampleId :

IA3

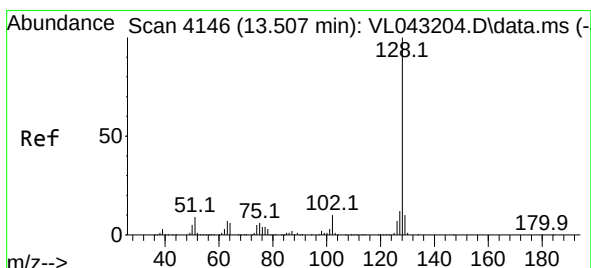
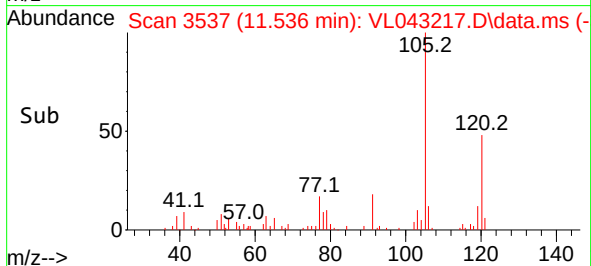
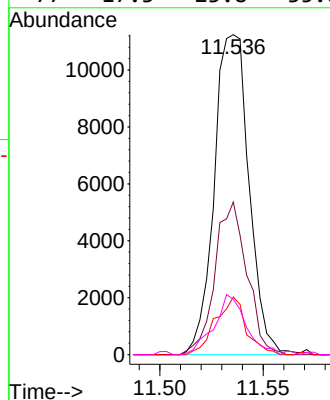
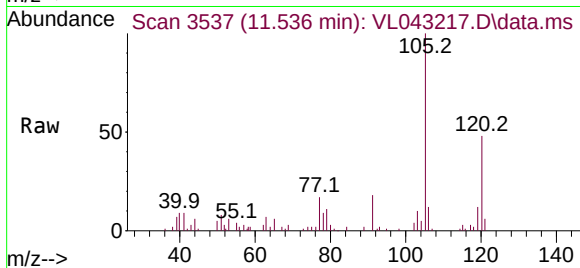
Tgt Ion:	105	Resp:	1313
Ion Ratio	Lower	Upper	
105	100		
120	47.7	41.7	62.5
91	18.0	70.0	105.0
77	17.3	23.8	35.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/19/2025

Supervised By :Mahesh Dadoda 11/19/2025



#79

Naphthalene

Concen: 0.180 ppbv

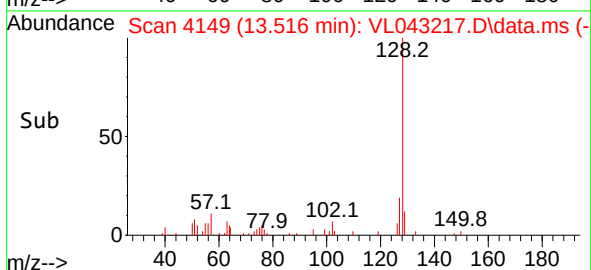
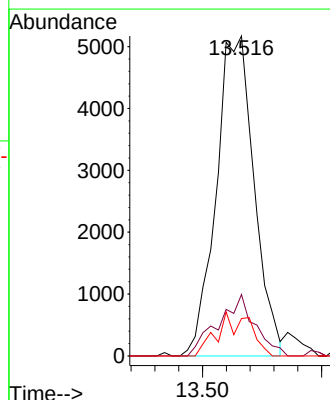
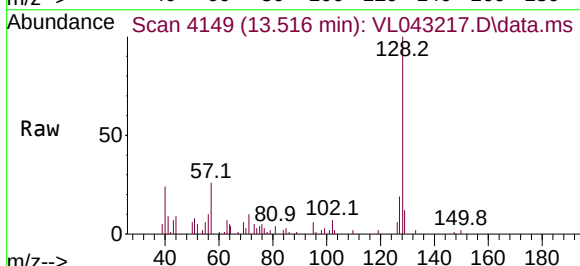
RT: 13.516 min Scan# 4149

Delta R.T. 0.009 min

Lab File: VL043217.D

Acq: 18 Nov 2025 17:40

Tgt Ion:	128	Resp:	5717
Ion Ratio	Lower	Upper	
128	100		
127	19.2	9.9	14.9
129	11.7	8.4	12.6



Report of Analysis

Client: GFE LLC
Project: 316 TO 326 WESTBURY AVE
Client Sample ID: IA3DL
Lab Sample ID: Q3651-06DL
Analytical Method: TO-15
Sample Wt/Vol: 400 mL

Date Collected: 11/11/25
Date Received: 11/14/25
SDG No.: Q3651
Matrix: Air
Test: VOCMS Group2

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qua.	DF	MDL ug/m3	LOQ / CRQL ug/m3	Date Ana.	BatchID
TARGETS									
75-01-4	Vinyl Chloride	0.25	0.64	UD	10	0.64	0.77	11/19/25 00:44	VL111825
142-82-5	Heptane	1.70	6.97	UD	10	6.97	20.5	11/19/25 00:44	VL111825
75-34-3	1,1-Dichloroethane	1.30	5.26	UD	10	5.26	20.2	11/19/25 00:44	VL111825
110-82-7	Cyclohexane	2.20	7.57	UD	10	7.57	17.2	11/19/25 00:44	VL111825
156-59-2	cis-1,2-Dichloroethene	0.99	3.93	UD	10	3.93	19.8	11/19/25 00:44	VL111825
71-55-6	1,1,1-Trichloroethane	0.16	0.87	UD	10	0.87	1.64	11/19/25 00:44	VL111825
540-84-1	2,2,4-Trimethylpentane	1.40	6.54	UD	10	6.54	23.4	11/19/25 00:44	VL111825
71-43-2	Benzene	0.79	2.52	UD	10	2.52	16.0	11/19/25 00:44	VL111825
79-01-6	Trichloroethene	0.24	1.29	UD	10	1.29	1.61	11/19/25 00:44	VL111825
108-88-3	Toluene	59.1	223	D	10	6.03	18.8	11/19/25 00:44	VL111825
127-18-4	Tetrachloroethene	0.15	1.02	UD	10	1.02	2.03	11/19/25 00:44	VL111825
100-41-4	Ethyl Benzene	1.90	8.25	UD	10	8.25	21.7	11/19/25 00:44	VL111825
179601-23-1	m/p-Xylene	4.10	17.8	UD	10	17.8	43.4	11/19/25 00:44	VL111825
95-47-6	o-Xylene	2.10	9.12	UD	10	9.12	21.7	11/19/25 00:44	VL111825
108-67-8	1,3,5-Trimethylbenzene	1.80	8.85	UD	10	8.85	24.6	11/19/25 00:44	VL111825
95-63-6	1,2,4-Trimethylbenzene	1.80	8.85	UD	10	8.85	24.6	11/19/25 00:44	VL111825
91-20-3	Naphthalene	0.13	0.68	UD	10	0.68	5.24	11/19/25 00:44	VL111825
110-54-3	Hexane	1.60	5.64	UD	10	5.64	17.6	11/19/25 00:44	VL111825

SURROGATES

460-00-4	1-Bromo-4-Fluorobenzene	10.4		65 - 135	104%	SPK: 10
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INTERNAL STANDARDS

	Area Count	
74-97-5	Bromochloromethane	94200
540-36-3	1,4-Difluorobenzene	242000
3114-55-4	Chlorobenzene-d5	187000

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\VL111825\
 Data File : VL043230.D
 Acq On : 19 Nov 2025 00:44
 Operator : SY/MD
 Sample : Q3651-06DL 10X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA3DL

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 11/19/2025
 Supervised By :Mahesh Dadoda 11/19/2025

Quant Time: Nov 19 03:20:46 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2
 QLast Update : Wed Nov 19 01:11:25 2025
 Response via : Initial Calibration

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

Internal Standards							
1) Bromochloromethane		2.787	49	94238	10.000	ppbv	0.00
33) 1,4-Difluorobenzene		3.955	114	242243	10.000	ppbv	0.00
55) Chlorobenzene-d5		8.875	117	186991	10.000	ppbv	0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene		10.370	95	141972	10.358	ppbv	0.00
Spiked Amount		10.000	Range 65 - 135		Recovery	= 103.600%	
Target Compounds							
							Qvalue
4) Chloromethane		1.534	50	2829	0.569	ppbv	# 77
9) Propene		1.486	41	665	0.120	ppbv	# 1
10) Heptane		4.975	43	2158m	0.131	ppbv	
13) Ethanol		1.722	45	20611	10.560	ppbv	97
15) Acetone		1.835	43	8957	0.684	ppbv	93
20) Methylene Chloride		2.062	84	5048	0.568	ppbv	82
26) Hexane		2.826	57	1760	0.142	ppbv	# 55
34) 2-Butanone		2.557	43	51160	2.992	ppbv	98
53) Toluene		6.927	91	162410	5.912	ppbv	100
59) m/p-Xylene		9.529	91	4088m	0.142	ppbv	

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

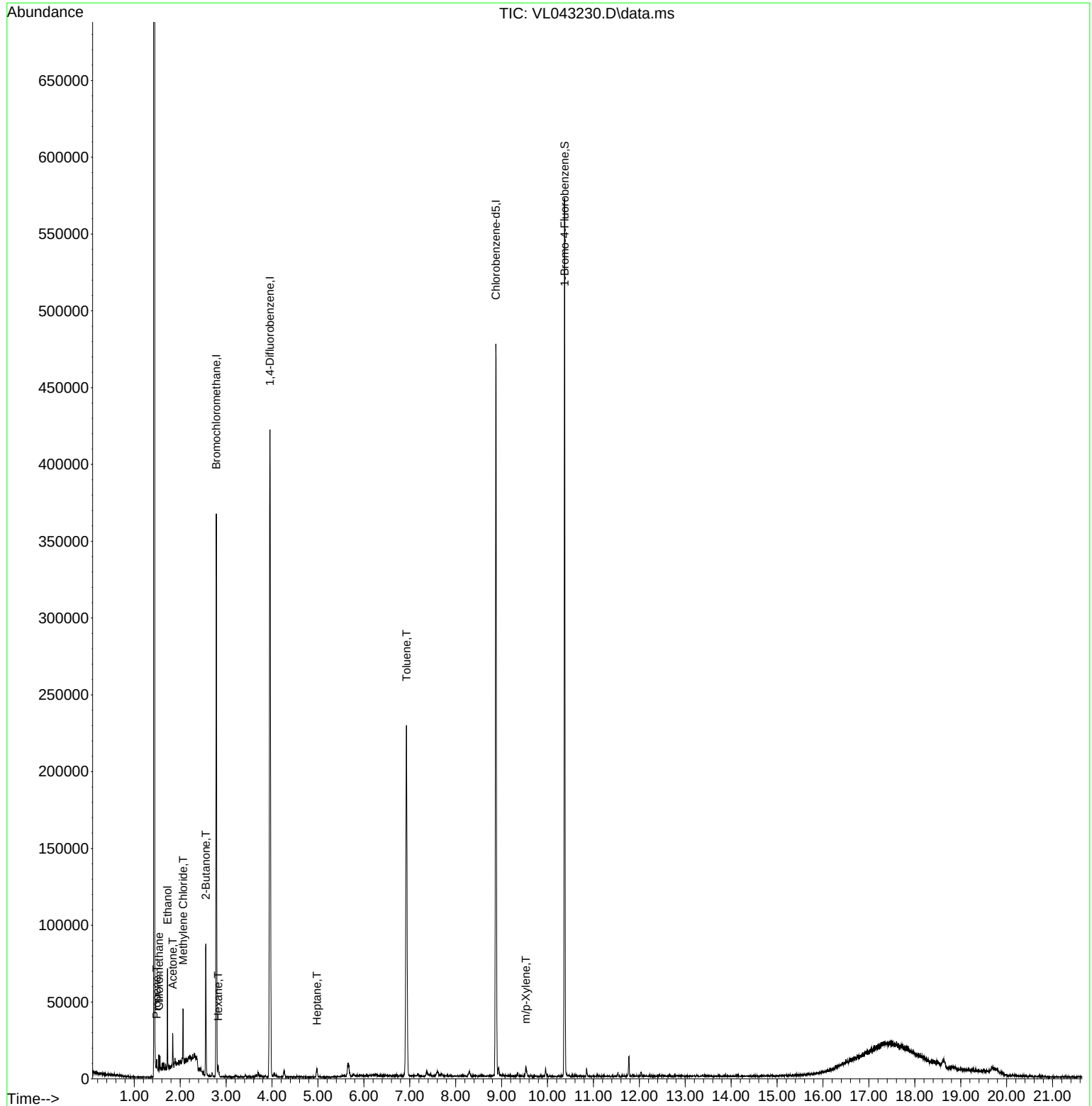
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111825\
Data File : VL043230.D
Acq On : 19 Nov 2025 00:44
Operator : SY/MD
Sample : Q3651-06DL 10X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

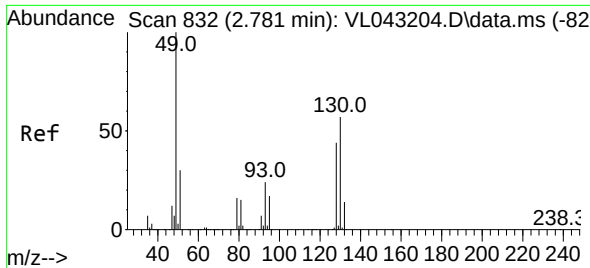
Instrument :
MSVOA_L
ClientSampleId :
IA3DL

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025

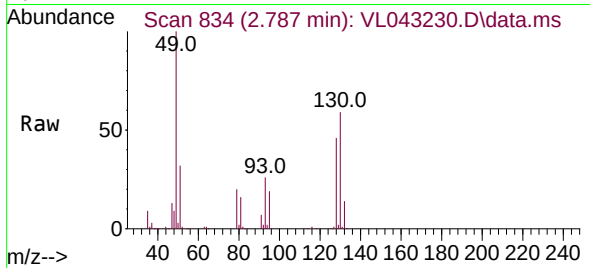
Quant Time: Nov 19 03:20:46 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Wed Nov 19 01:11:25 2025
Response via : Initial Calibration





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 832
Delta R.T. 0.006 min
Lab File: VL043230.D
Acq: 19 Nov 2025 00:44

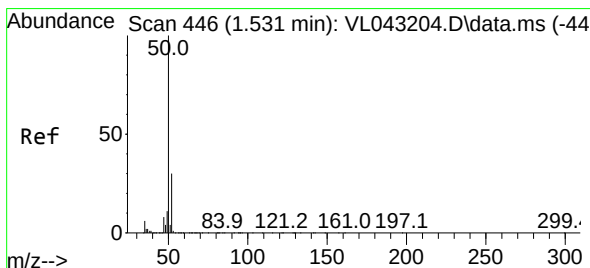
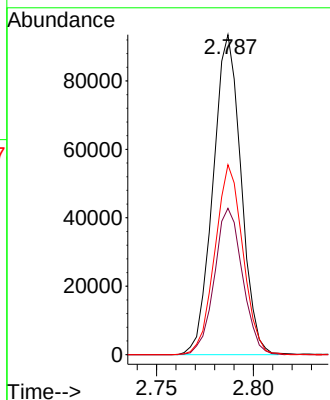
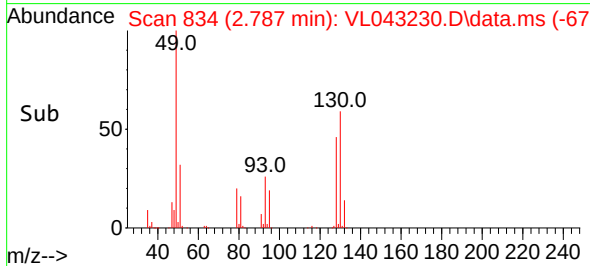
Instrument :
MSVOA_L
ClientSampleId :
IA3DL



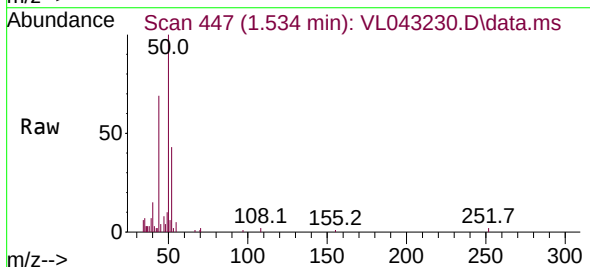
Tgt Ion: 49 Resp: 94238
Ion Ratio Lower Upper
49 100
128 45.8 23.0 69.0
130 59.3 29.9 89.7

Manual Integrations
APPROVED

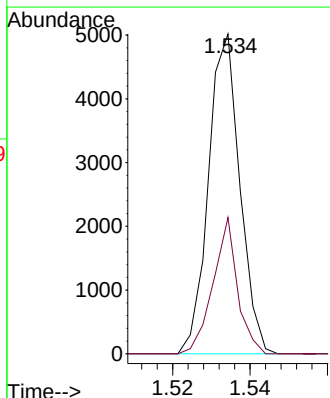
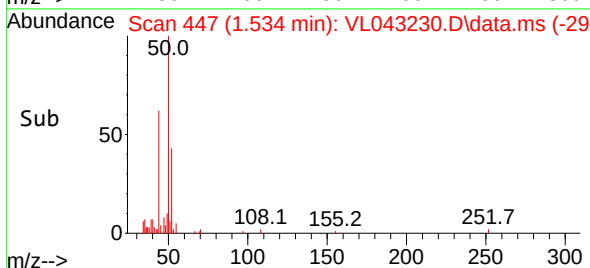
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025

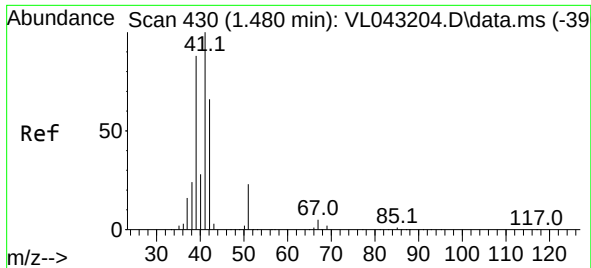


#4
Chloromethane
Concen: 0.569 ppbv
RT: 1.534 min Scan# 447
Delta R.T. 0.003 min
Lab File: VL043230.D
Acq: 19 Nov 2025 00:44



Tgt Ion: 50 Resp: 2829
Ion Ratio Lower Upper
50 100
52 42.6 24.1 36.1#





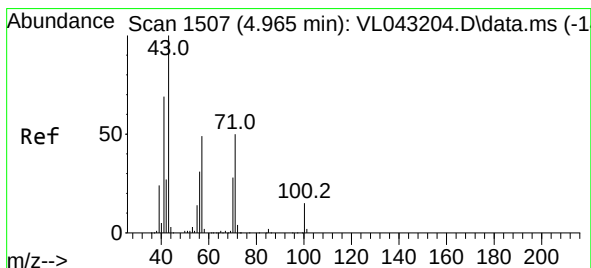
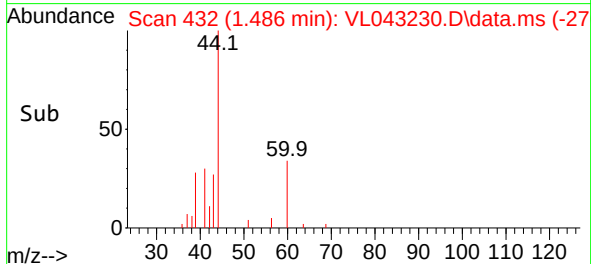
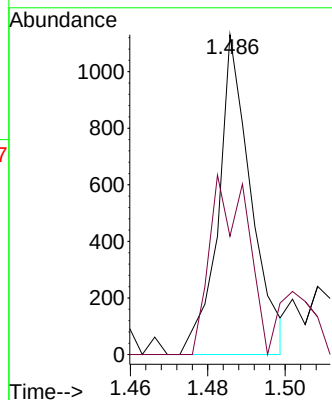
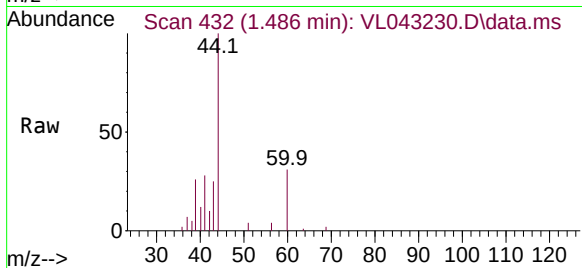
#9
 Propene
 Concen: 0.120 ppbv
 RT: 1.486 min Scan# 431
 Delta R.T. 0.006 min
 Lab File: VL043230.D
 Acq: 19 Nov 2025 00:44

Instrument :
 MSVOA_L
 ClientSampleId :
 IA3DL

Tgt Ion: 41 Resp: 665
 Ion Ratio Lower Upper
 41 100
 42 63.9 3.7 5.5

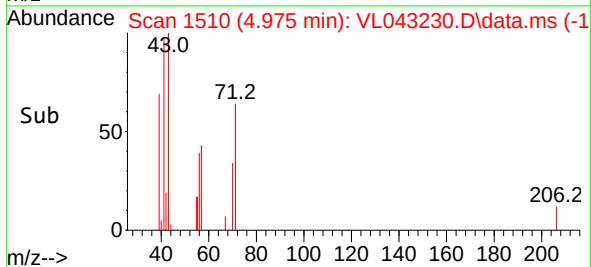
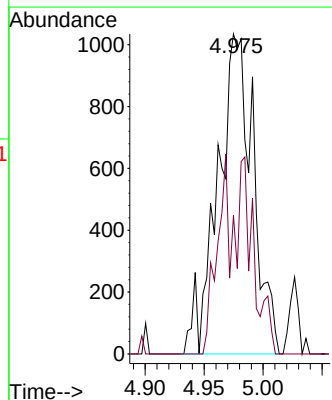
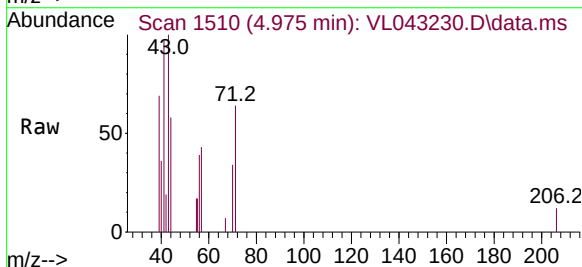
Manual Integrations
 APPROVED

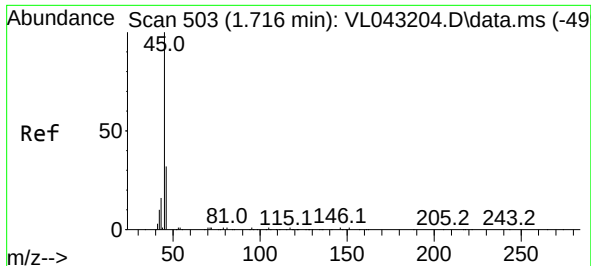
Reviewed By :Semsettin Yesilyurt 11/19/2025
 Supervised By :Mahesh Dadoda 11/19/2025



#10
 Heptane
 Concen: 0.131 ppbv m
 RT: 4.975 min Scan# 1510
 Delta R.T. 0.009 min
 Lab File: VL043230.D
 Acq: 19 Nov 2025 00:44

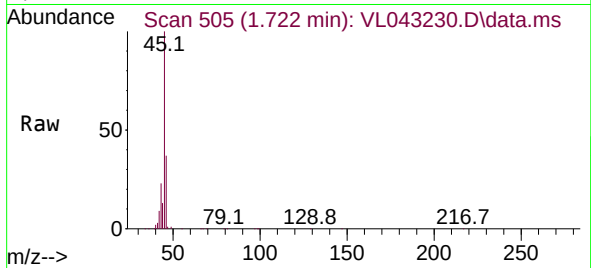
Tgt Ion: 43 Resp: 2158
 Ion Ratio Lower Upper
 43 100
 57 0.0 39.7 59.5





#13
Ethanol
Concen: 10.560 ppbv
RT: 1.722 min Scan# 50
Delta R.T. 0.006 min
Lab File: VL043230.D
Acq: 19 Nov 2025 00:44

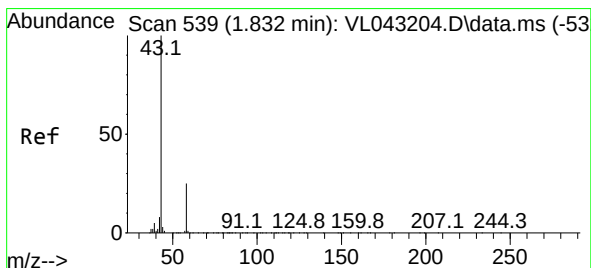
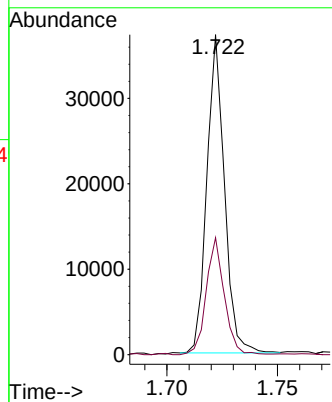
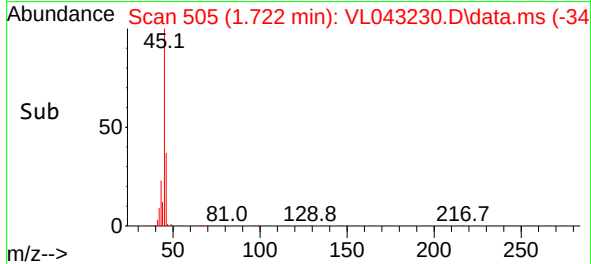
Instrument :
MSVOA_L
ClientSampleId :
IA3DL



Tgt Ion: 45 Resp: 2061
Ion Ratio Lower Upper
45 100
46 39.0 15.0 59.8

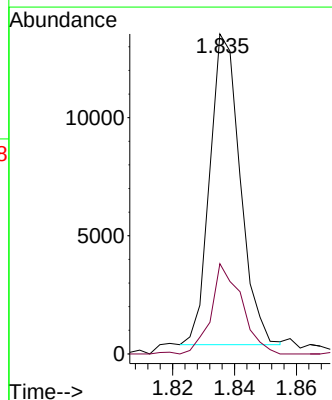
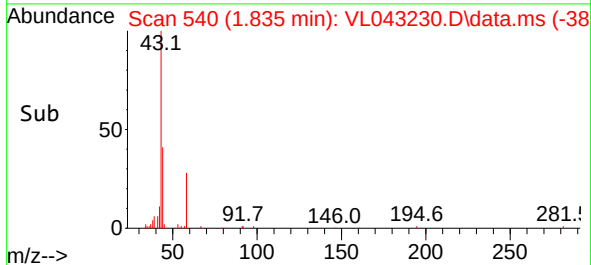
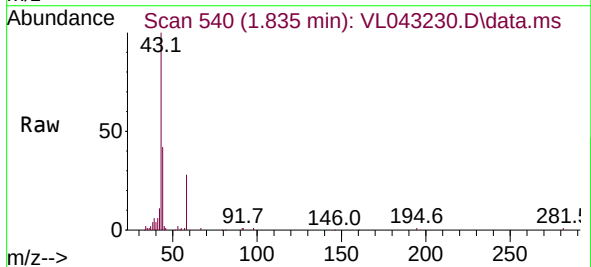
Manual Integrations
APPROVED

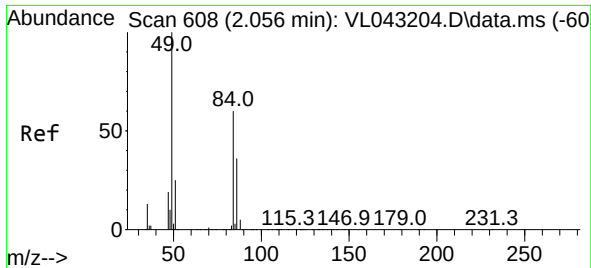
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#15
Acetone
Concen: 0.684 ppbv
RT: 1.835 min Scan# 540
Delta R.T. 0.003 min
Lab File: VL043230.D
Acq: 19 Nov 2025 00:44

Tgt Ion: 43 Resp: 8957
Ion Ratio Lower Upper
43 100
58 29.7 20.7 31.1





#20

Methylene Chloride

Concen: 0.568 ppbv

RT: 2.062 min Scan# 610

Delta R.T. 0.006 min

Lab File: VL043230.D

Acq: 19 Nov 2025 00:44

Instrument :

MSVOA_L

ClientSampleId :

IA3DL

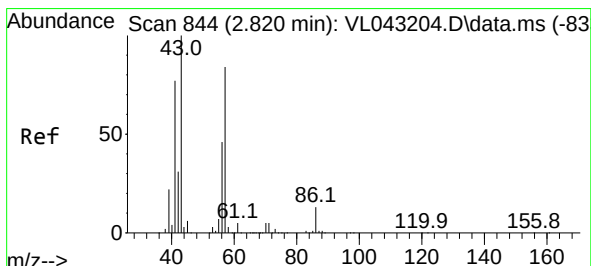
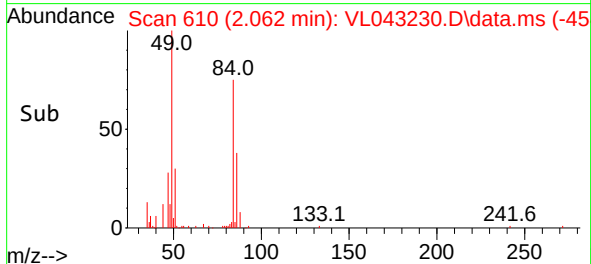
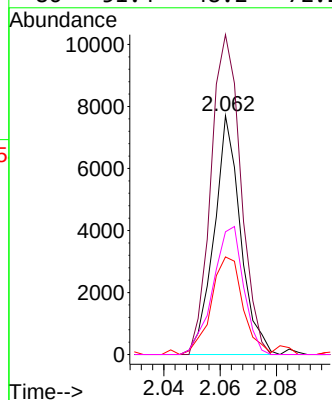
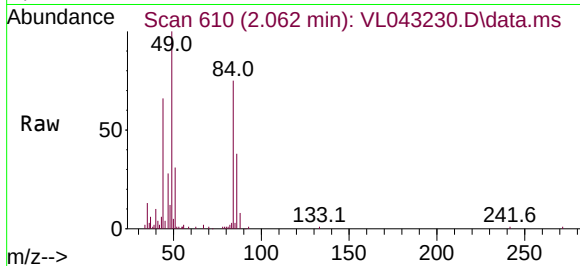
Tgt Ion: 84 Resp: 5048

Ion	Ratio	Lower	Upper
84	100		
49	133.9	132.9	199.3
51	42.1	34.8	52.2
86	51.4	48.2	72.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#26

Hexane

Concen: 0.142 ppbv

RT: 2.826 min Scan# 846

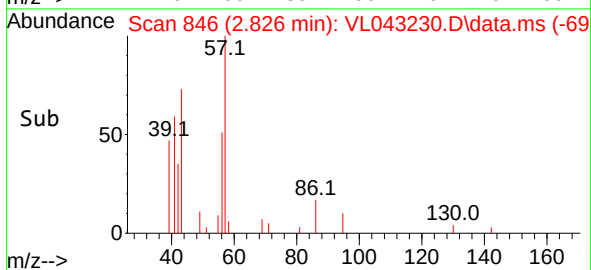
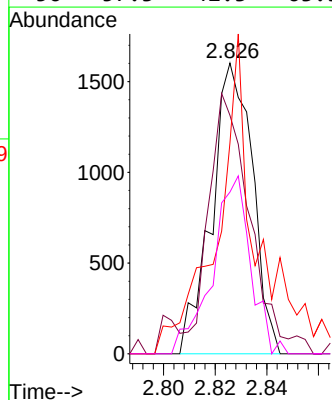
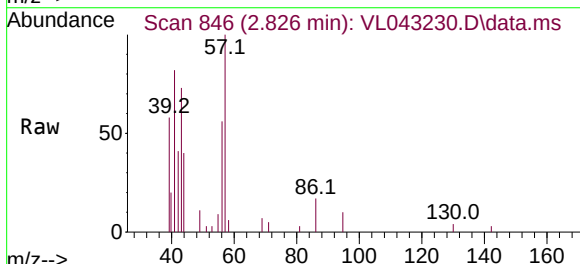
Delta R.T. 0.006 min

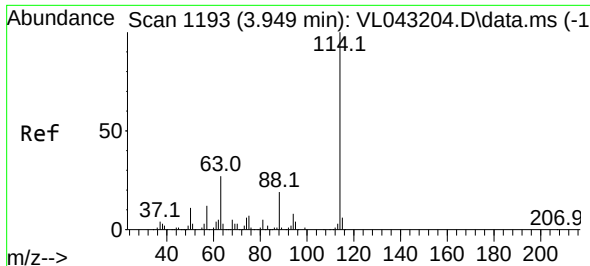
Lab File: VL043230.D

Acq: 19 Nov 2025 00:44

Tgt Ion: 57 Resp: 1760

Ion	Ratio	Lower	Upper
57	100		
41	101.3	74.6	111.8
43	111.3	179.0	268.4#
56	57.3	42.3	63.5





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.955 min Scan# 1195

Delta R.T. 0.006 min

Lab File: VL043230.D

Acq: 19 Nov 2025 00:44

Instrument :

MSVOA_L

ClientSampleId :

IA3DL

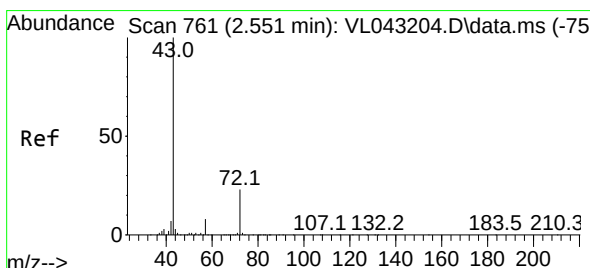
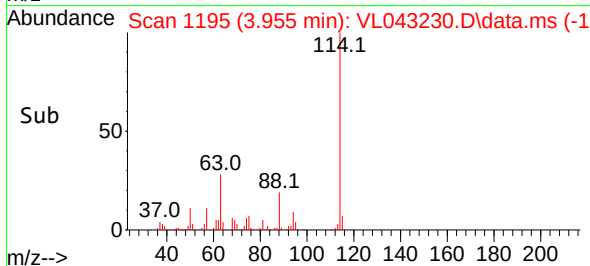
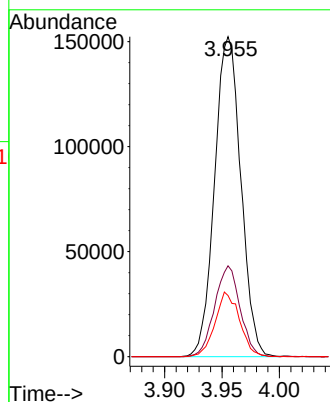
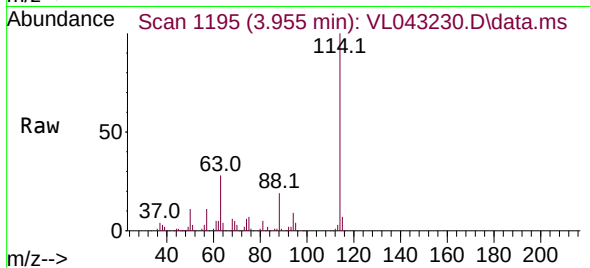
Tgt Ion:114 Resp: 242243

Ion	Ratio	Lower	Upper
114	100		
63	27.5	21.0	31.6
88	18.8	14.9	22.3

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#34

2-Butanone

Concen: 2.992 ppbv

RT: 2.557 min Scan# 763

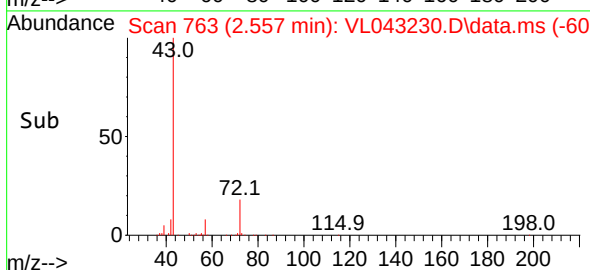
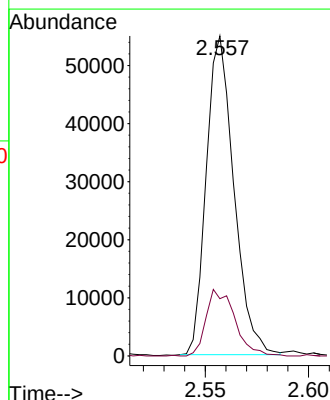
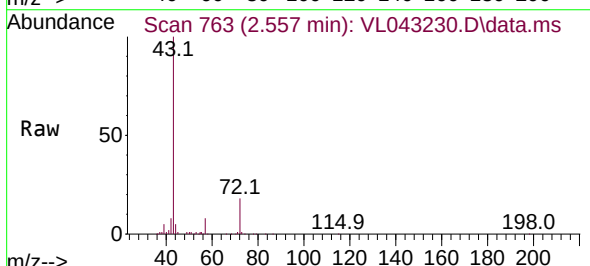
Delta R.T. 0.006 min

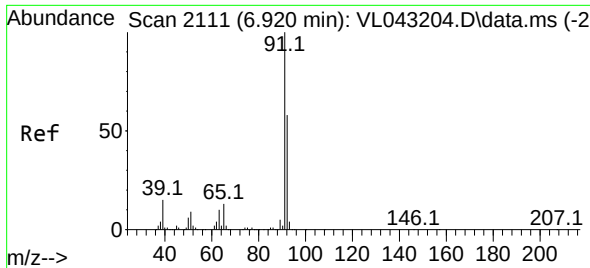
Lab File: VL043230.D

Acq: 19 Nov 2025 00:44

Tgt Ion: 43 Resp: 51160

Ion	Ratio	Lower	Upper
43	100		
72	21.8	18.1	27.1





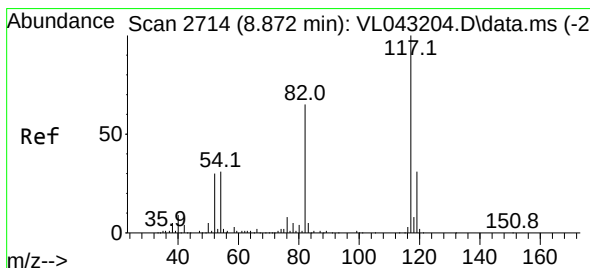
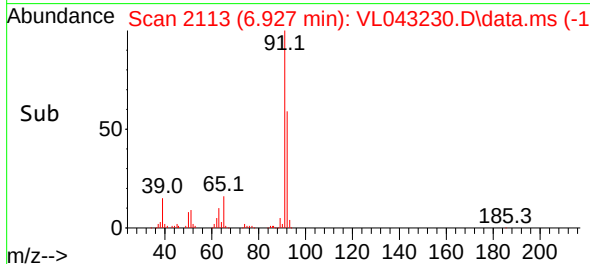
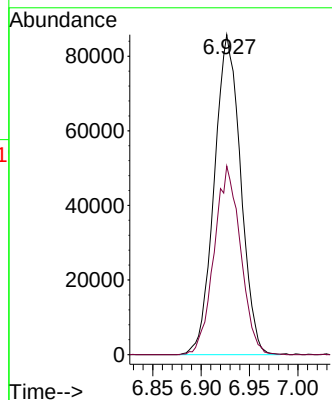
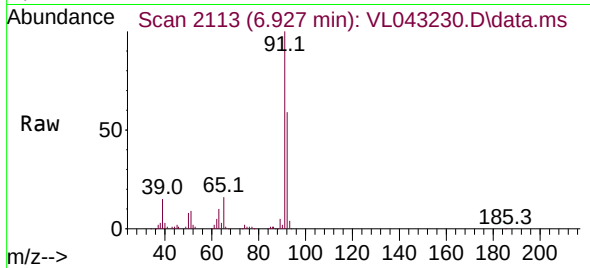
#53
Toluene
Concen: 5.912 ppbv
RT: 6.927 min Scan# 2111
Delta R.T. 0.006 min
Lab File: VL043230.D
Acq: 19 Nov 2025 00:44

Instrument :
MSVOA_L
ClientSampleId :
IA3DL

Tgt Ion: 91 Resp: 162410
Ion Ratio Lower Upper
91 100
92 59.1 47.4 71.0

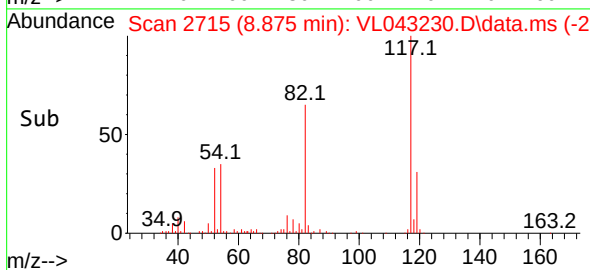
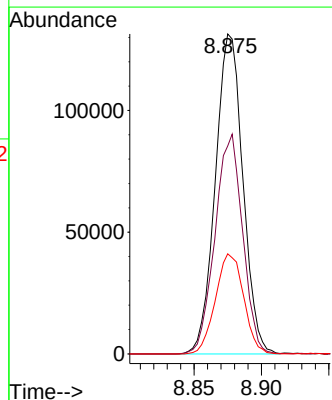
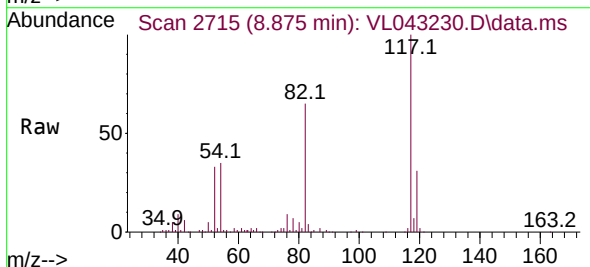
Manual Integrations
APPROVED

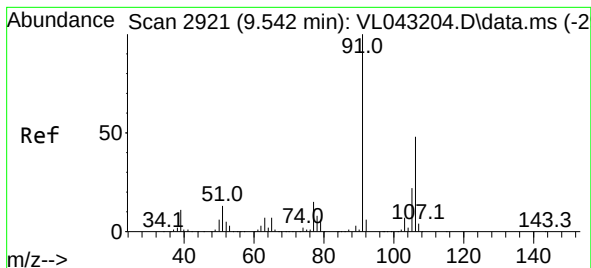
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.875 min Scan# 2715
Delta R.T. 0.003 min
Lab File: VL043230.D
Acq: 19 Nov 2025 00:44

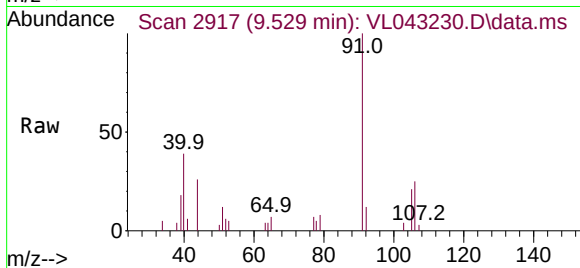
Tgt Ion:117 Resp: 186991
Ion Ratio Lower Upper
117 100
82 68.7 56.1 84.1
119 32.0 25.0 37.6





#59
m/p-Xylene
Concen: 0.142 ppbv m
RT: 9.529 min Scan# 2921
Delta R.T. -0.013 min
Lab File: VL043230.D
Acq: 19 Nov 2025 00:44

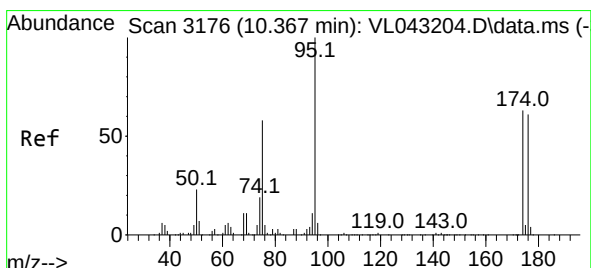
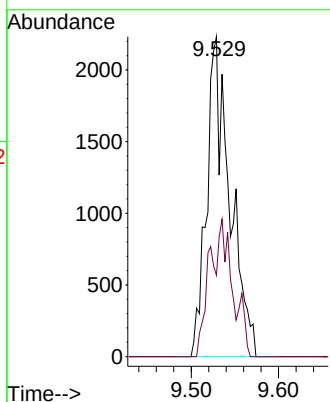
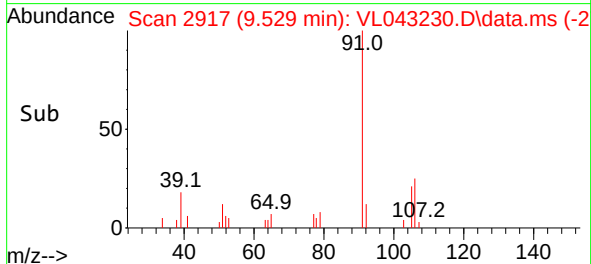
Instrument :
MSVOA_L
ClientSampleId :
IA3DL



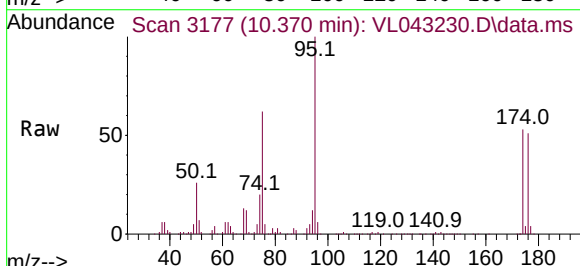
Tgt Ion: 91 Resp: 4088
Ion Ratio Lower Upper
91 100
106 0.0 36.1 54.1

Manual Integrations
APPROVED

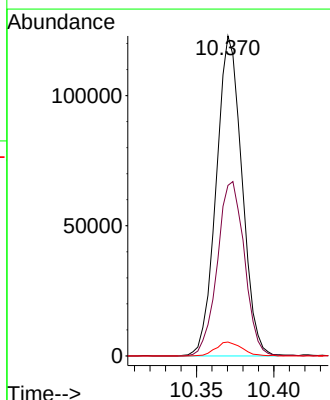
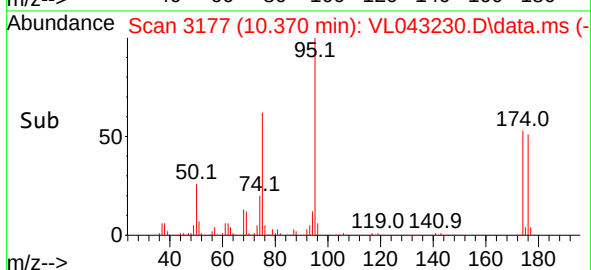
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#68
1-Bromo-4-Fluorobenzene
Concen: 10.358 ppbv
RT: 10.370 min Scan# 3177
Delta R.T. 0.003 min
Lab File: VL043230.D
Acq: 19 Nov 2025 00:44



Tgt Ion: 95 Resp: 141972
Ion Ratio Lower Upper
95 100
174 57.4 50.2 75.2
175 4.4 4.1 6.1





CALIBRATION SUMMARY

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: <u>Alliance</u>	Contract: <u>GFEL01</u>
Lab Code: <u>ACE</u>	SDG No.: <u>Q3651</u>
Instrument ID: <u>MSVOA_L</u>	Calibration Date(s): <u>11/18/2025</u> <u>11/18/2025</u>
Heated Purge: (Y/N) <u>N</u>	Calibration Time(s): <u>09:29</u> <u>13:24</u>
GC Column: <u>RTX-1</u> ID: <u>0.32</u> (mm)	

LAB FILE ID:		RRF0.5 = VL043203.D		RRF010 = VL043204.D		RRF002 = VL043205.D		
		RRF001 = VL043206.D		RRF0.1 = VL043208.D		RRF.03 = VL043209.D		
COMPOUND	RRF0.5	RRF010	RRF002	RRF001	RRF0.1	RRF.03	RRF	% RSD
Vinyl Chloride	0.533	0.486	0.575	0.580	0.655	0.724	0.577	15.3
Heptane	2.106	1.604	1.728	1.804			1.753	12.9
1,1-Dichloroethane	1.050	1.018	1.194	1.173			1.096	7.4
Cyclohexane	1.135	1.024	1.130	1.194			1.101	6.8
cis-1,2-Dichloroethene	1.399	1.240	1.322	1.351			1.306	5.8
1,1,1-Trichloroethane	1.971	1.884	2.033	2.018	2.046	2.116	1.990	4.5
2,2,4-Trimethylpentane	1.746	1.555	1.621	1.765			1.645	6.5
Benzene	0.996	0.905	0.986	1.001			0.958	5.3
Trichloroethene	0.390	0.353	0.371	0.388	0.475	0.293	0.375	14.6
Toluene	1.198	1.075	1.146	1.182			1.134	5.3
Tetrachloroethene	0.344	0.329	0.349	0.362	0.424	0.363	0.356	9.4
Ethyl Benzene	1.927	1.821	2.008	2.038			1.925	5.2
m/p-Xylene	1.618	1.434	1.607	1.611			1.543	6.1
o-Xylene	1.584	1.419	1.659	1.625			1.542	7.4
1,3,5-Trimethylbenzene	1.623	1.456	1.662	1.682			1.575	7.1
1,2,4-Trimethylbenzene	1.796	1.548	1.871	1.844			1.719	9.5
Naphthalene	1.483	1.496	1.860	1.599	1.230		1.527	13.4
1-Bromo-4-Fluorobenzene	0.729	0.735	0.741	0.733	0.725	0.712	0.733	1.9
Hexane	1.374	1.235	1.375	1.424			1.314	8.4

* 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 : VL111825AIR.M

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

Last Update : Wed Nov 19 01:11:25 2025

Response Via : Initial Calibration

Calibration Files

0.03=VL043209.D 0.1 =VL043208.D 0.5 =VL043203.D 1 =VL043206.D 2 =VL043205.D 10 =VL043204.D 15 =VL043210.D

Compound	0.03	0.1	0.5	1	2	10	15	Avg	%RSD

1) I Bromochloromethane	-----ISTD-----								
2) T Dichlorodifluo...			1.398	1.505	1.476	1.340	1.334	1.410	5.53
3) Chlorodifluoro...			1.545	1.404	1.437	1.317	1.231	1.387	8.60
4) Chloromethane			0.521	0.559	0.568	0.498	0.489	0.527	6.72
5) T Vinyl Chloride	0.724	0.655	0.533	0.580	0.575	0.486	0.483	0.577	15.33
6) T Bromomethane			0.300	0.302	0.286	0.253	0.258	0.280	8.30
7) Chloroethane			0.246	0.248	0.236	0.194	0.199	0.225	11.59
8) T Dichlorotetra...			1.156	1.241	1.262	1.091	1.116	1.173	6.43
9) T Propene			0.677	0.598	0.621	0.501	0.548	0.589	11.44
10) T Heptane			2.106	1.804	1.728	1.604	1.522	1.753	12.87
11) T Trichlorofluor...			1.238	1.515	1.487	1.240	1.352	1.367	9.62
12) T 1,1,2-Trichlor...			1.061	1.142	1.115	0.987	1.029	1.067	5.92
13) Ethanol			0.215	0.231	0.252	0.166	0.172	0.207	17.99
14) T Bromoethene			0.448	0.423	0.436	0.362	0.376	0.409	9.29
15) T Acetone			1.721	1.591	1.519	1.032	1.085	1.389	22.41
16) T 1,3-Butadiene			0.745	0.629	0.626	0.551	0.546	0.619	13.01
17) tert-Butyl alc...			1.784	2.014	1.880	1.705	1.735	1.824	6.87
18) T 1,1-Dichloroet...			0.555	0.530	0.515	0.441	0.443	0.497	10.52
19) T Isopropyl Alcohol			0.848	0.861	0.823	0.684	0.709	0.785	10.51
20) T Methylene Chlo...			0.906	0.710	0.585	0.398	0.403	0.600	35.87
21) T Allyl Chloride			1.139	0.895	0.936	0.849	0.855	0.935	12.75
22) T trans-1,2-Dich...			0.605	0.614	0.599	0.499	0.521	0.568	9.39
23) T Vinyl Acetate			1.885	1.632	1.682	1.622	1.565	1.677	7.36
24) T 1,1-Dichloroet...			1.050	1.173	1.194	1.018	1.044	1.096	7.42
25) T Ethyl Acetate			3.371	3.123	3.074	2.759	2.655	2.996	9.68
26) T Hexane			1.374	1.424	1.375	1.235	1.161	1.314	8.44
27) T Carbon Disulfide			1.303	1.424	1.432	1.257	1.291	1.341	6.03
28) T Methyl tert-Bu...			0.642	0.704	0.674	0.591	0.614	0.645	7.02
29) T Chloroform			1.955	1.898	1.928	1.785	1.770	1.867	4.52
30) T Cyclohexane			1.135	1.194	1.130	1.024	1.024	1.101	6.80
31) T cis-1,2-Dichlo...			1.399	1.351	1.322	1.240	1.217	1.306	5.83
32) T 1,1,1-Trichlor...	2.116	2.046	1.970	2.018	2.033	1.884	1.865	1.990	4.52

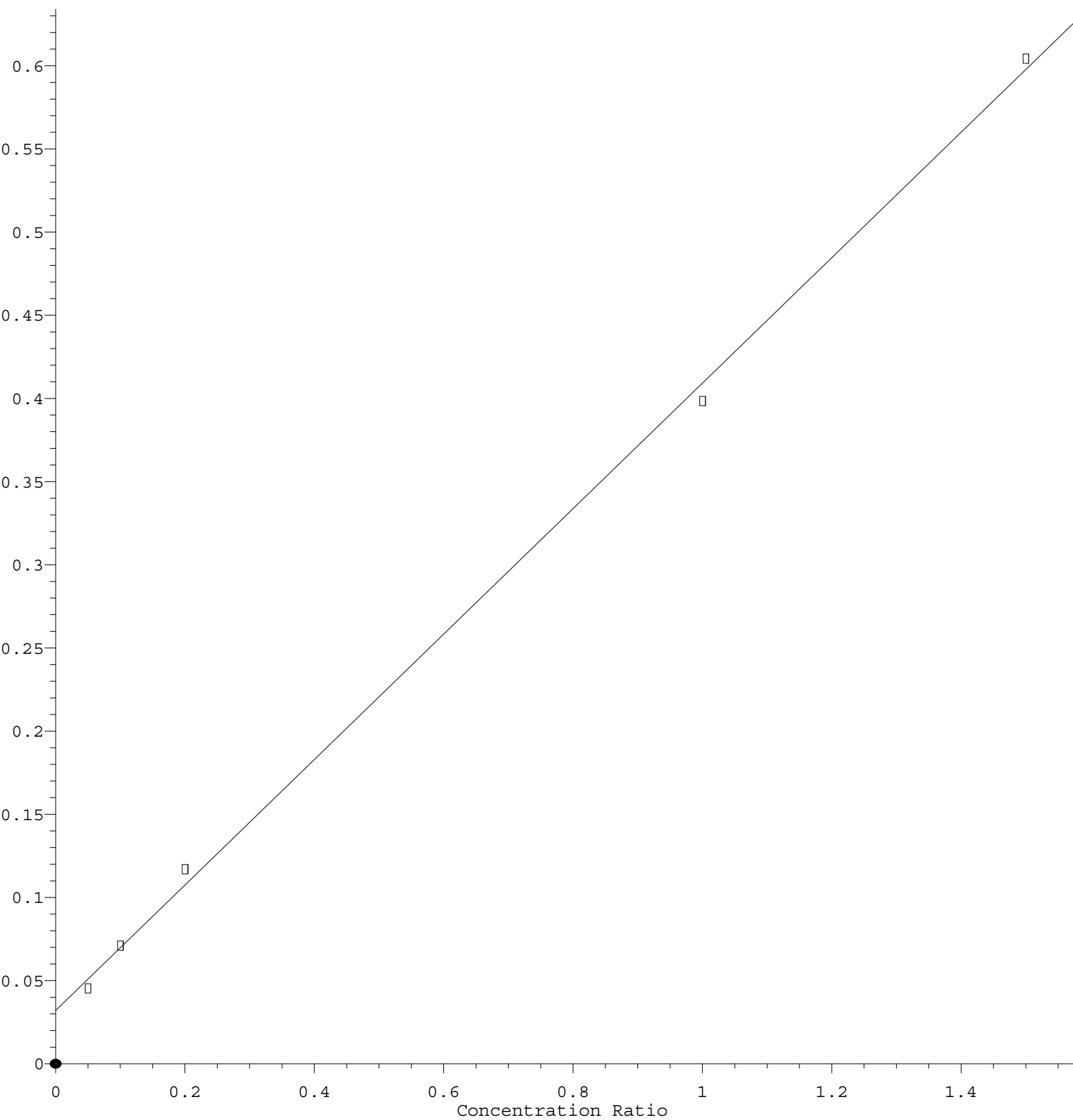
33) I 1,4-Difluorobenzene	-----ISTD-----								
34) T 2-Butanone			0.744	0.751	0.736	0.644	0.655	0.706	7.38
35) T Carbon Tetrach...	0.832	0.765	0.779	0.771	0.737	0.708	0.721	0.759	5.51
36) T Benzene			0.996	1.001	0.986	0.905	0.900	0.958	5.28
37) T 1,2-Dichloroet...			0.572	0.580	0.565	0.531	0.553	0.560	3.39
38) T Trichloroethene	0.293	0.475	0.390	0.388	0.371	0.353	0.353	0.375	14.65
39) T 1,2-Dichloropr...			0.372	0.364	0.350	0.335	0.332	0.351	4.97

Method Path : Z:\voasrv\HPCHEM1\MSVOA_L\methods\ Method File : VL111825AIR.M											
40)	T	1,4-Dioxane			0.180	0.166	0.155	0.142	0.144	0.158	10.04
41)	T	Tetrahydrofuran			0.418	0.401	0.402	0.367	0.360	0.390	6.32
42)	T	Bromodichlorom...			0.782	0.795	0.783	0.745	0.758	0.773	2.63
43)		Methyl Methacr...			0.576	0.532	0.511	0.462	0.462	0.508	9.55
44)	T	2,2,4-Trimethy...			1.746	1.765	1.621	1.555	1.537	1.645	6.47
45)	T	t-1,3-Dichloro...			0.495	0.472	0.489	0.455	0.458	0.474	3.79
46)	T	cis-1,3-Dichlo...			0.599	0.557	0.562	0.534	0.529	0.556	5.00
47)	T	1,1,2-Trichlor...			0.424	0.372	0.378	0.344	0.342	0.372	8.91
48)	T	Dibromochlorom...			0.629	0.666	0.663	0.618	0.621	0.640	3.63
49)	T	Bromoform			0.583	0.569	0.581	0.555	0.545	0.566	2.86
50)	T	4-Methyl-2-Pen...			1.025	1.061	1.027	0.946	0.914	0.994	6.19
51)	T	2-Hexanone			0.782	0.805	0.816	0.734	0.724	0.772	5.37
52)	T	Tetrachloroethene	0.363	0.424	0.344	0.362	0.349	0.329	0.323	0.356	9.37
53)	T	Toluene			1.198	1.182	1.146	1.075	1.069	1.134	5.26
54)	T	1,2-Dibromoethane		0.528	0.587	0.569	0.549	0.525	0.526	0.547	4.79
-----ISTD-----											
55)	I	Chlorobenzene-d5									
56)		1,1,1,2-Tetrac...			0.791	0.769	0.761	0.677	0.677	0.735	7.34
57)	T	Chlorobenzene			1.035	1.088	1.089	0.969	0.953	1.027	6.24
58)	T	Ethyl Benzene			1.927	2.038	2.008	1.821	1.830	1.925	5.16
59)	T	m/p-Xylene			1.618	1.611	1.607	1.434	1.446	1.543	6.12
60)	T	o-Xylene			1.584	1.625	1.659	1.419	1.421	1.542	7.42
61)	T	Styrene			0.669	0.690	0.719	0.648	0.647	0.675	4.54
62)		Isopropylbenzene			2.807	2.946	2.945	2.556	2.536	2.758	7.31
63)	T	1,1,2,2-Tetrac...	0.999	1.034	1.016	1.012	1.028	0.891	0.884	0.981	6.58
64)		n-propylbenzene			0.722	0.758	0.757	0.657	0.649	0.709	7.47
65)		tert-Butylbenzene			2.583	2.687	2.646	2.224	2.176	2.463	9.90
66)	T	Benzyl Chloride			0.275	0.251	0.257	0.241	0.225	0.250	7.36
67)		sec-Butylbenzene			3.588	3.728	3.697	3.108	3.070	3.438	9.40
68)	S	1-Bromo-4-Fluo...	0.712	0.725	0.729	0.733	0.741	0.735	0.757	0.733	1.90
69)		p-Isopropyltol...			2.994	3.070	3.197	2.660	2.641	2.912	8.58
70)		n-Butylbenzene			2.676	3.041	3.125	2.639	2.647	2.825	8.39
71)		2-Chlorotoluene			2.198	2.257	2.210	1.960	1.975	2.120	6.65
72)	T	4-Ethyltoluene			1.934	1.948	2.009	1.749	1.747	1.877	6.46
73)	T	1,3,5-Trimethy...			1.623	1.682	1.662	1.456	1.454	1.575	7.09
74)	T	1,2,4-Trimethy...			1.796	1.844	1.871	1.548	1.537	1.719	9.51
75)	T	1,3-Dichlorobe...			1.043	1.053	1.061	0.937	0.922	1.003	6.78
76)	T	1,4-Dichlorobe...			1.056	1.033	1.060	0.940	0.930	1.003	6.34
77)	T	1,2-Dichlorobe...			0.974	1.064	1.050	0.872	0.863	0.965	9.83
78)	T	Hexachloro-1,3...			0.854	0.899	0.920	0.686	0.666	0.805	14.94
79)	T	Naphthalene		1.230	1.483	1.599	1.860	1.496	1.493	1.527	13.35
80)	T	Naphthalene,2-...			0.397	0.323	0.448	0.397	0.439	0.401	12.30
81)	T	1,2,4-Trichlor...			0.549	0.692	0.813	0.678	0.682	0.683	13.72

(#) = Out of Range

Methylene Chloride

Response Ratio



Response = 3.773e-001 * Amt + 3.213e-002
 Coef of Det (r^2) = 0.998825 Curve Fit: Linear
 Method Name: Z:\voasrv\HPCHEM1\MSVOA L\methods\VL11825AIR.M
 Calibration Table Last Updated: Wed Nov 19 01:11:25 2025

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111825\
 Data File : VL043203.D
 Acq On : 18 Nov 2025 09:29
 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 11/19/2025
 Supervised By :Mahesh Dadoda 11/19/2025

Quant Time: Nov 19 00:48:47 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M

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

QLast Update : Wed Nov 19 00:48:15 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.784	49	110490	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.956	114	296493	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.875	117	247761	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.371 95 180529 9.941 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 99.400%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.496	85	7723	0.496	ppbv	99
3) Chlorodifluoromethane	1.473	51	8538	0.557	ppbv #	82
4) Chloromethane	1.531	50	2881	0.494	ppbv	94
5) Vinyl Chloride	1.580	62	2947	0.462	ppbv #	87
6) Bromomethane	1.667	94	1656	0.536	ppbv	97
7) Chloroethane	1.703	64	1357	0.547	ppbv	100
8) Dichlorotetrafluoroethane	1.554	85	6386	0.493	ppbv	100
9) Propene	1.483	41	3739	0.526	ppbv #	1
10) Heptane	4.972	43	11637m	0.597	ppbv	
11) Trichlorofluoromethane	1.878	101	6841	0.453	ppbv	92
12) 1,1,2-Trichlorotrifluo...	2.140	101	5863	0.497	ppbv	99
13) Ethanol	1.719	45	1190	0.520	ppbv	64
14) Bromoethene	1.781	108	2476	0.548	ppbv #	75
15) Acetone	1.836	43	9506	0.619	ppbv #	88
16) 1,3-Butadiene	1.606	39	4115	0.601	ppbv	95
17) tert-Butyl alcohol	2.043	59	9854	0.489	ppbv #	68
18) 1,1-Dichloroethene	2.033	96	3068	0.559	ppbv	96
19) Isopropyl Alcohol	1.887	45	4687	0.540	ppbv #	51
20) Methylene Chloride	2.059	84	5006	0.349	ppbv	92
21) Allyl Chloride	2.095	41	6291	0.609	ppbv	95
22) trans-1,2-Dichloroethene	2.337	96	3343	0.533	ppbv	80
23) Vinyl Acetate	2.464	43	10414	0.562	ppbv #	92
24) 1,1-Dichloroethane	2.409	63	5803	0.479	ppbv #	96
25) Ethyl Acetate	2.839	43	18625m	0.562	ppbv	
26) Hexane	2.823	57	7589	0.523	ppbv #	91
27) Carbon Disulfide	2.150	76	7198	0.486	ppbv #	1
28) Methyl tert-Butyl Ether	2.441	73	3545	0.498	ppbv #	15
29) Chloroform	2.849	83	10800	0.523	ppbv	95
30) Cyclohexane	3.849	84	6271	0.515	ppbv	85
31) cis-1,2-Dichloroethene	2.719	61	7728	0.536	ppbv	87
32) 1,1,1-Trichloroethane	3.363	97	10886	0.490	ppbv	98
34) 2-Butanone	2.557	43	11026	0.527	ppbv	95
35) Carbon Tetrachloride	3.761	117	11551	0.513	ppbv	94
36) Benzene	3.655	78	14759	0.520	ppbv #	91
37) 1,2-Dichloroethane	3.218	62	8477	0.510	ppbv #	93
38) Trichloroethene	4.542	130	5775	0.519	ppbv #	87
39) 1,2-Dichloropropane	4.312	63	5510	0.530	ppbv #	80
40) 1,4-Dioxane	4.597	88	2675m	0.573	ppbv	
41) Tetrahydrofuran	3.059	42	6193	0.536	ppbv	95
42) Bromodichloromethane	4.490	83	11597	0.506	ppbv #	84
43) Methyl Methacrylate	4.881	69	8534m	0.566	ppbv	
44) 2,2,4-Trimethylpentane	4.642	57	25890	0.531	ppbv	95
45) t-1,3-Dichloropropene	6.412	75	7343	0.523	ppbv	94

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111825\
 Data File : VL043203.D
 Acq On : 18 Nov 2025 09:29
 Operator : SY/MD
 Sample : VSTDIC0.5
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 11/19/2025
 Supervised By :Mahesh Dadoda 11/19/2025

Quant Time: Nov 19 00:48:47 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M

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

QLast Update : Wed Nov 19 00:48:15 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.593	75	8886m	0.539	ppbv	
47) 1,1,2-Trichloroethane	6.581	97	6280m	0.567	ppbv	
48) Dibromochloromethane	7.380	129	9327	0.492	ppbv	97
49) Bromoform	9.481	173	8636	0.514	ppbv	100
50) 4-Methyl-2-Pentanone	5.755	43	15190	0.515	ppbv	92
51) 2-Hexanone	7.442	43	11594	0.506	ppbv #	93
52) Tetrachloroethene	8.218	164	5097	0.483	ppbv #	82
53) Toluene	6.924	91	17755m	0.525	ppbv	
54) 1,2-Dibromoethane	7.649	107	8708	0.537	ppbv	90
56) 1,1,1,2-Tetrachloroethane	8.917	131	9793m	0.538	ppbv	
57) Chlorobenzene	8.917	112	12818	0.504	ppbv	98
58) Ethyl Benzene	9.351	91	23866	0.500	ppbv	96
59) m/p-Xylene	9.526	91	40076m	1.044	ppbv	
60) o-Xylene	9.956	91	19621	0.514	ppbv	100
61) Styrene	9.869	104	8287	0.496	ppbv	96
62) Isopropylbenzene	10.536	105	34773	0.509	ppbv	98
63) 1,1,2,2-Tetrachloroethane	9.960	83	12591	0.519	ppbv	100
64) n-propylbenzene	10.986	120	8945	0.509	ppbv	100
65) tert-Butylbenzene	11.526	119	31998	0.524	ppbv	99
66) Benzyl Chloride	11.610	91	3403	0.550	ppbv	98
67) sec-Butylbenzene	11.766	105	44448	0.522	ppbv	97
69) p-Isopropyltoluene	11.921	119	37087	0.514	ppbv	100
70) n-Butylbenzene	12.277	91	33153	0.474	ppbv	94
71) 2-Chlorotoluene	10.895	91	27224	0.518	ppbv	99
72) 4-Ethyltoluene	11.122	105	23963	0.515	ppbv	97
73) 1,3,5-Trimethylbenzene	11.199	105	20104	0.515	ppbv	99
74) 1,2,4-Trimethylbenzene	11.533	105	22254	0.522	ppbv	91
75) 1,3-Dichlorobenzene	11.604	146	12926	0.520	ppbv	98
76) 1,4-Dichlorobenzene	11.672	146	13076	0.526	ppbv	98
77) 1,2-Dichlorobenzene	11.947	146	12069	0.505	ppbv	97
78) Hexachloro-1,3-Butadiene	13.879	225	10578	0.530	ppbv	98
79) Naphthalene	13.513	128	18377	0.486	ppbv	97
80) Naphthalene,2-methyl-	14.462	142	4917	0.495	ppbv	91
81) 1,2,4-Trichlorobenzene	13.439	180	6798	0.402	ppbv	97

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111825\
 Data File : VL043204.D
 Acq On : 18 Nov 2025 10:02
 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 11/19/2025
 Supervised By :Mahesh Dadoda 11/19/2025

Quant Time: Nov 19 00:49:32 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M

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

QLast Update : Wed Nov 19 00:48:15 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.781	49	105095	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.949	114	283830	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.872	117	234772	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.367 95 172524 10.025 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 100.300%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.496	85	140789	9.498	ppbv	100
3) Chlorodifluoromethane	1.473	51	138443	9.497	ppbv	100
4) Chloromethane	1.531	50	52372	9.450	ppbv	100
5) Vinyl Chloride	1.577	62	51045	8.422	ppbv	100
6) Bromomethane	1.664	94	26542	9.034	ppbv	100
7) Chloroethane	1.700	64	20375	8.632	ppbv	100
8) Dichlorotetrafluoroethane	1.551	85	114670	9.300	ppbv	100
9) Propene	1.480	41	52671	7.789	ppbv #	1
10) Heptane	4.965	43	168611	9.090	ppbv	100
11) Trichlorofluoromethane	1.875	101	130362	9.077	ppbv	100
12) 1,1,2-Trichlorotrifluo...	2.137	101	103679	9.247	ppbv	100
13) Ethanol	1.716	45	17464	8.023	ppbv	100
14) Bromoethene	1.777	108	38037	8.849	ppbv	100
15) Acetone	1.832	43	108422	7.426	ppbv	100
16) 1,3-Butadiene	1.606	39	57871	8.890	ppbv	100
17) tert-Butyl alcohol	2.036	59	179201	9.350	ppbv	100
18) 1,1-Dichloroethene	2.030	96	46313	8.871	ppbv	100
19) Isopropyl Alcohol	1.881	45	71862	8.710	ppbv	100
20) Methylene Chloride	2.056	84	41868	9.708	ppbv	100
21) Allyl Chloride	2.091	41	89266	9.087	ppbv	100
22) trans-1,2-Dichloroethene	2.334	96	52470	8.793	ppbv	100
23) Vinyl Acetate	2.457	43	170459	9.670	ppbv	100
24) 1,1-Dichloroethane	2.405	63	106970	9.287	ppbv	100
25) Ethyl Acetate	2.829	43	289921	9.190	ppbv	100
26) Hexane	2.820	57	129809	9.402	ppbv	100
27) Carbon Disulfide	2.146	76	132086	9.371	ppbv	100
28) Methyl tert-Butyl Ether	2.434	73	62115	9.165	ppbv	100
29) Chloroform	2.842	83	187620	9.561	ppbv	100
30) Cyclohexane	3.846	84	107621	9.297	ppbv	100
31) cis-1,2-Dichloroethene	2.716	61	130357	9.499	ppbv	100
32) 1,1,1-Trichloroethane	3.360	97	198036	9.381	ppbv	100
34) 2-Butanone	2.551	43	182749	9.121	ppbv	100
35) Carbon Tetrachloride	3.755	117	200831	9.322	ppbv	100
36) Benzene	3.648	78	256954	9.453	ppbv	100
37) 1,2-Dichloroethane	3.211	62	150769	9.483	ppbv	100
38) Trichloroethene	4.535	130	100136	9.398	ppbv	100
39) 1,2-Dichloropropane	4.302	63	95097	9.559	ppbv	100
40) 1,4-Dioxane	4.567	88	40441	9.043	ppbv #	100
41) Tetrahydrofuran	3.046	42	104294	9.426	ppbv	100
42) Bromodichloromethane	4.477	83	211504	9.643	ppbv	100
43) Methyl Methacrylate	4.865	69	131003	9.080	ppbv	100
44) 2,2,4-Trimethylpentane	4.626	57	441234	9.451	ppbv	100
45) t-1,3-Dichloropropene	6.399	75	129122	9.601	ppbv	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111825\
 Data File : VL043204.D
 Acq On : 18 Nov 2025 10:02
 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 11/19/2025
 Supervised By :Mahesh Dadoda 11/19/2025

Quant Time: Nov 19 00:49:32 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M

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

QLast Update : Wed Nov 19 00:48:15 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.584	75	151655	9.603	ppbv	100
47) 1,1,2-Trichloroethane	6.564	97	97512	9.193	ppbv	100
48) Dibromochloromethane	7.377	129	175529	9.670	ppbv	100
49) Bromoform	9.474	173	157563	9.800	ppbv	100
50) 4-Methyl-2-Pentanone	5.733	43	268369	9.509	ppbv	100
51) 2-Hexanone	7.419	43	208268	9.503	ppbv #	100
52) Tetrachloroethene	8.212	164	93518	9.249	ppbv	100
53) Toluene	6.920	91	305169	9.422	ppbv	100
54) 1,2-Dibromoethane	7.639	107	148973	9.588	ppbv	100
56) 1,1,1,2-Tetrachloroethane	8.914	131	158856	9.207	ppbv	100
57) Chlorobenzene	8.911	112	227490	9.438	ppbv	100
58) Ethyl Benzene	9.345	91	427530	9.461	ppbv	100
59) m/p-Xylene	9.542	91	673371m	18.519	ppbv	
60) o-Xylene	9.956	91	333044	9.202	ppbv	100
61) Styrene	9.863	104	152172	9.607	ppbv	100
62) Isopropylbenzene	10.533	105	600155	9.269	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.953	83	209272	9.109	ppbv	100
64) n-propylbenzene	10.982	120	154239	9.271	ppbv	100
65) tert-Butylbenzene	11.523	119	522106	9.029	ppbv	100
66) Benzyl Chloride	11.607	91	56620	9.649	ppbv	100
67) sec-Butylbenzene	11.762	105	729573	9.039	ppbv	100
69) p-Isopropyltoluene	11.918	119	624586	9.135	ppbv	100
70) n-Butylbenzene	12.274	91	619610	9.341	ppbv	100
71) 2-Chlorotoluene	10.895	91	460118	9.245	ppbv	100
72) 4-Ethyltoluene	11.118	105	410587	9.316	ppbv	100
73) 1,3,5-Trimethylbenzene	11.196	105	341900	9.244	ppbv	100
74) 1,2,4-Trimethylbenzene	11.529	105	363476	9.005	ppbv	100
75) 1,3-Dichlorobenzene	11.601	146	219894	9.335	ppbv	100
76) 1,4-Dichlorobenzene	11.665	146	220576	9.363	ppbv	100
77) 1,2-Dichlorobenzene	11.940	146	204826	9.044	ppbv	100
78) Hexachloro-1,3-Butadiene	13.876	225	161034	8.520	ppbv	100
79) Naphthalene	13.507	128	351148	9.795	ppbv	100
80) Naphthalene,2-methyl-	14.452	142	93113	9.895	ppbv	100
81) 1,2,4-Trichlorobenzene	13.436	180	159091	9.923	ppbv	100

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111825\
 Data File : VL043205.D
 Acq On : 18 Nov 2025 10:37
 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 11/19/2025
 Supervised By :Mahesh Dadoda 11/19/2025

Quant Time: Nov 19 00:50:19 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M

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

QLast Update : Wed Nov 19 00:48:15 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.787	49	104644	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.955	114	284629	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.878	117	230646	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.374 95 171009 10.115 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 101.200%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.499	85	30881	2.092	ppbv	98
3) Chlorodifluoromethane	1.476	51	30069	2.072	ppbv	98
4) Chloromethane	1.534	50	11890	2.155	ppbv	96
5) Vinyl Chloride	1.580	62	12040	1.995	ppbv	96
6) Bromomethane	1.670	94	5981	2.044	ppbv	99
7) Chloroethane	1.706	64	4943	2.103	ppbv	95
8) Dichlorotetrafluoroethane	1.554	85	26409	2.151	ppbv	98
9) Propene	1.486	41	12993	1.930	ppbv #	1
10) Heptane	4.972	43	36171m	1.958	ppbv	
11) Trichlorofluoromethane	1.878	101	31124	2.177	ppbv	97
12) 1,1,2-Trichlorotrifluo...	2.140	101	23336	2.090	ppbv	100
13) Ethanol	1.722	45	5266	2.430	ppbv	86
14) Bromoethene	1.784	108	9129	2.133	ppbv	95
15) Acetone	1.835	43	31785	2.186	ppbv	91
16) 1,3-Butadiene	1.609	39	13101	2.021	ppbv	89
17) tert-Butyl alcohol	2.039	59	39348	2.062	ppbv	95
18) 1,1-Dichloroethene	2.036	96	10780	2.074	ppbv	94
19) Isopropyl Alcohol	1.887	45	17229	2.097	ppbv #	71
20) Methylene Chloride	2.062	84	12238	2.248	ppbv	96
21) Allyl Chloride	2.098	41	19580	2.002	ppbv	95
22) trans-1,2-Dichloroethene	2.340	96	12537	2.110	ppbv	94
23) Vinyl Acetate	2.460	43	35205	2.006	ppbv #	97
24) 1,1-Dichloroethane	2.408	63	24987	2.179	ppbv	99
25) Ethyl Acetate	2.832	43	64343	2.048	ppbv	99
26) Hexane	2.826	57	28776	2.093	ppbv	97
27) Carbon Disulfide	2.149	76	29964	2.135	ppbv #	91
28) Methyl tert-Butyl Ether	2.438	73	14101	2.090	ppbv #	85
29) Chloroform	2.849	83	40355	2.065	ppbv	98
30) Cyclohexane	3.855	84	23659	2.053	ppbv	98
31) cis-1,2-Dichloroethene	2.722	61	27663	2.024	ppbv	98
32) 1,1,1-Trichloroethane	3.366	97	42547	2.024	ppbv	99
34) 2-Butanone	2.557	43	41884	2.085	ppbv	99
35) Carbon Tetrachloride	3.765	117	41949	1.942	ppbv	96
36) Benzene	3.654	78	56141m	2.060	ppbv	
37) 1,2-Dichloroethane	3.218	62	32188	2.019	ppbv	100
38) Trichloroethene	4.548	130	21105m	1.975	ppbv	
39) 1,2-Dichloropropane	4.312	63	19913	1.996	ppbv	93
40) 1,4-Dioxane	4.580	88	8829m	1.969	ppbv	
41) Tetrahydrofuran	3.056	42	22912	2.065	ppbv	99
42) Bromodichloromethane	4.490	83	44584	2.027	ppbv	98
43) Methyl Methacrylate	4.875	69	29071	2.009	ppbv	99
44) 2,2,4-Trimethylpentane	4.635	57	92261	1.971	ppbv	96
45) t-1,3-Dichloropropene	6.406	75	27833m	2.064	ppbv	

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111825\
 Data File : VL043205.D
 Acq On : 18 Nov 2025 10:37
 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 11/19/2025
 Supervised By :Mahesh Dadoda 11/19/2025

Quant Time: Nov 19 00:50:19 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M

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

QLast Update : Wed Nov 19 00:48:15 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.593	75	31986	2.020	ppbv	91
47) 1,1,2-Trichloroethane	6.577	97	21542m	2.025	ppbv	
48) Dibromochloromethane	7.386	129	37758m	2.074	ppbv	
49) Bromoform	9.480	173	33057	2.050	ppbv	98
50) 4-Methyl-2-Pentanone	5.745	43	58461	2.066	ppbv	98
51) 2-Hexanone	7.432	43	46444	2.113	ppbv #	99
52) Tetrachloroethene	8.218	164	19856	1.958	ppbv	96
53) Toluene	6.927	91	65238	2.008	ppbv	97
54) 1,2-Dibromoethane	7.648	107	31266	2.007	ppbv	98
56) 1,1,1,2-Tetrachloroethane	8.920	131	35099	2.071	ppbv	99
57) Chlorobenzene	8.917	112	50228	2.121	ppbv	97
58) Ethyl Benzene	9.351	91	92649	2.087	ppbv	98
59) m/p-Xylene	9.529	91	148300m	4.151	ppbv	
60) o-Xylene	9.959	91	76540	2.153	ppbv	100
61) Styrene	9.866	104	33188	2.133	ppbv	98
62) Isopropylbenzene	10.536	105	135853	2.136	ppbv	98
63) 1,1,2,2-Tetrachloroethane	9.963	83	47439	2.102	ppbv	99
64) n-propylbenzene	10.985	120	34915	2.136	ppbv	99
65) tert-Butylbenzene	11.529	119	122064	2.149	ppbv	99
66) Benzyl Chloride	11.610	91	11870	2.059	ppbv	99
67) sec-Butylbenzene	11.765	105	170529	2.151	ppbv	100
69) p-Isopropyltoluene	11.921	119	147482	2.195	ppbv	98
70) n-Butylbenzene	12.280	91	144148	2.212	ppbv	99
71) 2-Chlorotoluene	10.898	91	101951	2.085	ppbv	100
72) 4-Ethyltoluene	11.121	105	92654	2.140	ppbv	99
73) 1,3,5-Trimethylbenzene	11.202	105	76655	2.110	ppbv	96
74) 1,2,4-Trimethylbenzene	11.532	105	86286	2.176	ppbv	98
75) 1,3-Dichlorobenzene	11.604	146	48961	2.116	ppbv	98
76) 1,4-Dichlorobenzene	11.668	146	48881	2.112	ppbv	98
77) 1,2-Dichlorobenzene	11.944	146	48431	2.177	ppbv	99
78) Hexachloro-1,3-Butadiene	13.879	225	42456	2.287	ppbv	99
79) Naphthalene	13.510	128	85788	2.436	ppbv	97
80) Naphthalene,2-methyl-	14.458	142	20685	2.237	ppbv	98
81) 1,2,4-Trichlorobenzene	13.439	180	37521	2.382	ppbv	99

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111825\
 Data File : VL043206.D
 Acq On : 18 Nov 2025 11:10
 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 11/19/2025
 Supervised By :Mahesh Dadoda 11/19/2025

Quant Time: Nov 19 00:51:06 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M

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

QLast Update : Wed Nov 19 00:48:15 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.784	49	102795	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.952	114	278732	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.872	117	227998	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.370 95 167061 9.996 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 100.000%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.499	85	15474	1.067	ppbv	100
3) Chlorodifluoromethane	1.476	51	14437	1.013	ppbv #	92
4) Chloromethane	1.531	50	5751	1.061	ppbv	92
5) Vinyl Chloride	1.580	62	5967	1.007	ppbv	95
6) Bromomethane	1.667	94	3104	1.080	ppbv	94
7) Chloroethane	1.706	64	2550	1.104	ppbv	97
8) Dichlorotetrafluoroethane	1.554	85	12759	1.058	ppbv	98
9) Propene	1.483	41	6147	0.929	ppbv #	1
10) Heptane	4.972	43	18544	1.022	ppbv	100
11) Trichlorofluoromethane	1.877	101	15571	1.108	ppbv	99
12) 1,1,2-Trichlorotrifluo...	2.140	101	11743	1.071	ppbv	99
13) Ethanol	1.719	45	2373	1.115	ppbv	67
14) Bromoethene	1.780	108	4345	1.033	ppbv #	91
15) Acetone	1.835	43	16353	1.145	ppbv	90
16) 1,3-Butadiene	1.609	39	6469	1.016	ppbv	96
17) tert-Butyl alcohol	2.039	59	20703	1.104	ppbv #	92
18) 1,1-Dichloroethene	2.033	96	5447	1.067	ppbv	97
19) Isopropyl Alcohol	1.884	45	8849	1.097	ppbv #	43
20) Methylene Chloride	2.059	84	7297	1.030	ppbv	85
21) Allyl Chloride	2.094	41	9198	0.957	ppbv #	84
22) trans-1,2-Dichloroethene	2.340	96	6313	1.082	ppbv	94
23) Vinyl Acetate	2.460	43	16779	0.973	ppbv	98
24) 1,1-Dichloroethane	2.405	63	12062	1.071	ppbv	94
25) Ethyl Acetate	2.832	43	32108	1.041	ppbv	98
26) Hexane	2.819	57	14639	1.084	ppbv	99
27) Carbon Disulfide	2.149	76	14637	1.062	ppbv #	30
28) Methyl tert-Butyl Ether	2.441	73	7236	1.092	ppbv #	83
29) Chloroform	2.845	83	19509	1.016	ppbv	91
30) Cyclohexane	3.852	84	12269	1.084	ppbv	96
31) cis-1,2-Dichloroethene	2.716	61	13889	1.035	ppbv	97
32) 1,1,1-Trichloroethane	3.363	97	20745	1.005	ppbv	99
34) 2-Butanone	2.554	43	20940	1.064	ppbv	96
35) Carbon Tetrachloride	3.758	117	21497	1.016	ppbv	96
36) Benzene	3.648	78	27911	1.046	ppbv	99
37) 1,2-Dichloroethane	3.214	62	16159	1.035	ppbv	99
38) Trichloroethene	4.538	130	10809m	1.033	ppbv	
39) 1,2-Dichloropropane	4.311	63	10147	1.039	ppbv	91
40) 1,4-Dioxane	4.577	88	4616m	1.051	ppbv	
41) Tetrahydrofuran	3.052	42	11176	1.029	ppbv	96
42) Bromodichloromethane	4.480	83	22150	1.028	ppbv #	98
43) Methyl Methacrylate	4.871	69	14821	1.046	ppbv	94
44) 2,2,4-Trimethylpentane	4.632	57	49203m	1.073	ppbv	
45) t-1,3-Dichloropropene	6.402	75	13149m	0.996	ppbv	

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111825\
 Data File : VL043206.D
 Acq On : 18 Nov 2025 11:10
 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 11/19/2025
 Supervised By :Mahesh Dadoda 11/19/2025

Quant Time: Nov 19 00:51:06 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M

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

QLast Update : Wed Nov 19 00:48:15 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.590	75	15527	1.001	ppbv #	95
47) 1,1,2-Trichloroethane	6.577	97	10369	0.995	ppbv #	85
48) Dibromochloromethane	7.377	129	18560	1.041	ppbv	93
49) Bromoform	9.477	173	15858	1.004	ppbv	98
50) 4-Methyl-2-Pentanone	5.745	43	29560	1.067	ppbv	99
51) 2-Hexanone	7.428	43	22438	1.043	ppbv #	98
52) Tetrachloroethene	8.215	164	10080	1.015	ppbv	90
53) Toluene	6.923	91	32951	1.036	ppbv	100
54) 1,2-Dibromoethane	7.645	107	15865	1.040	ppbv	97
56) 1,1,1,2-Tetrachloroethane	8.917	131	17535	1.046	ppbv	99
57) Chlorobenzene	8.914	112	24806	1.060	ppbv	98
58) Ethyl Benzene	9.344	91	46455	1.059	ppbv	96
59) m/p-Xylene	9.545	91	73461m	2.080	ppbv	
60) o-Xylene	9.956	91	37054	1.054	ppbv	97
61) Styrene	9.866	104	15730	1.023	ppbv	95
62) Isopropylbenzene	10.532	105	67163	1.068	ppbv	99
63) 1,1,2,2-Tetrachloroethane	9.956	83	23083	1.035	ppbv	97
64) n-propylbenzene	10.985	120	17289	1.070	ppbv	100
65) tert-Butylbenzene	11.526	119	61258	1.091	ppbv	99
66) Benzyl Chloride	11.610	91	5729	1.005	ppbv	96
67) sec-Butylbenzene	11.762	105	84989	1.084	ppbv	99
69) p-Isopropyltoluene	11.921	119	69993	1.054	ppbv	99
70) n-Butylbenzene	12.277	91	69323	1.076	ppbv	99
71) 2-Chlorotoluene	10.895	91	51452	1.065	ppbv	100
72) 4-Ethyltoluene	11.118	105	44403	1.037	ppbv	99
73) 1,3,5-Trimethylbenzene	11.199	105	38350	1.068	ppbv	91
74) 1,2,4-Trimethylbenzene	11.532	105	42051	1.073	ppbv #	81
75) 1,3-Dichlorobenzene	11.600	146	24011	1.050	ppbv	98
76) 1,4-Dichlorobenzene	11.665	146	23543	1.029	ppbv	97
77) 1,2-Dichlorobenzene	11.940	146	24248	1.103	ppbv	98
78) Hexachloro-1,3-Butadiene	13.879	225	20489	1.116	ppbv	99
79) Naphthalene	13.507	128	36462	1.047	ppbv	95
80) Naphthalene,2-methyl-	14.455	142	7375	0.807	ppbv	95
81) 1,2,4-Trichlorobenzene	13.436	180	15785	1.014	ppbv	98

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111825\
 Data File : VL043208.D
 Acq On : 18 Nov 2025 12:16
 Operator : SY/MD
 Sample : VSTDICC0.1
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC0.1

Quant Time: Nov 19 00:51:52 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2
 QLast Update : Wed Nov 19 00:48:15 2025
 Response via : Initial Calibration

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 11/19/2025
 Supervised By : Mahesh Dadoda 11/19/2025

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

Internal Standards						
1) Bromochloromethane	2.784	49	101366	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.952	114	273996	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.875	117	222034	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.370	95	160968	9.890	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.900%
Target Compounds						
						Qvalue
5) Vinyl Chloride	1.580	62	664	0.114	ppbv	97
32) 1,1,1-Trichloroethane	3.360	97	2074m	0.102	ppbv	
35) Carbon Tetrachloride	3.761	117	2097m	0.101	ppbv	
38) Trichloroethene	4.541	130	1302m	0.127	ppbv	
52) Tetrachloroethene	8.218	164	1161m	0.119	ppbv	
54) 1,2-Dibromoethane	7.648	107	1446m	0.096	ppbv	
63) 1,1,2,2-Tetrachloroethane	9.953	83	2296m	0.106	ppbv	
79) Naphthalene	13.510	128	2732m	0.081	ppbv	

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

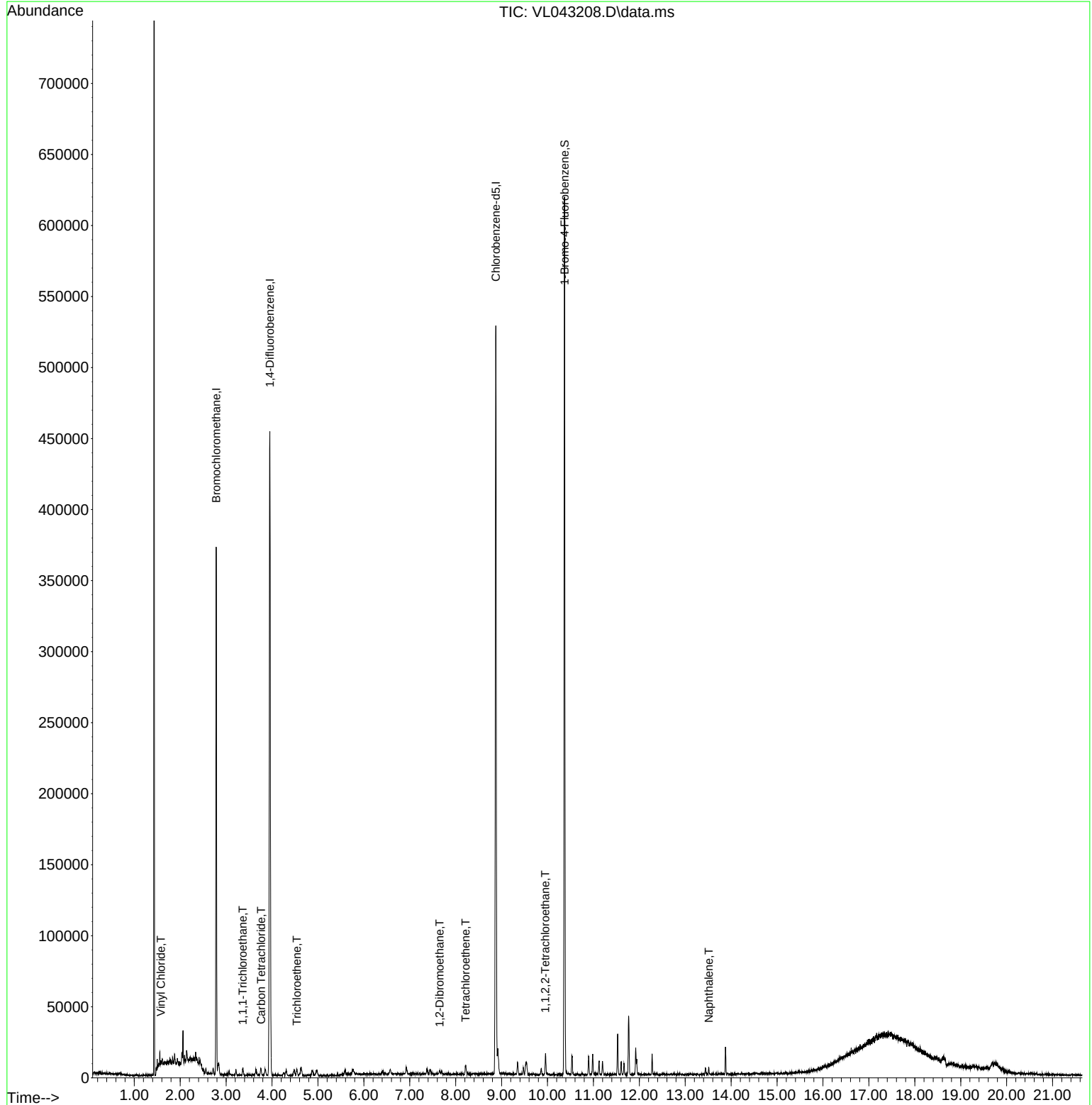
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111825\
Data File : VL043208.D
Acq On : 18 Nov 2025 12:16
Operator : SY/MD
Sample : VSTDIC0.1
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.1

Quant Time: Nov 19 00:51:52 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Wed Nov 19 00:48:15 2025
Response via : Initial Calibration

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111825\
 Data File : VL043209.D
 Acq On : 18 Nov 2025 12:49
 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 11/19/2025
 Supervised By :Mahesh Dadoda 11/19/2025

Quant Time: Nov 19 00:52:39 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2
 QLast Update : Wed Nov 19 00:48:15 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.784	49	98952	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.952	114	266012	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.875	117	213547	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.371	95	152015	9.712	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.100%
Target Compounds						
					Qvalue	
5) Vinyl Chloride	1.580	62	215m	0.038	ppbv	
32) 1,1,1-Trichloroethane	3.357	97	628m	0.032	ppbv	
35) Carbon Tetrachloride	3.758	117	664m	0.033	ppbv	
52) Tetrachloroethene	8.222	164	290m	0.031	ppbv	
63) 1,1,2,2-Tetrachloroethane	9.963	83	640m	0.031	ppbv	

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

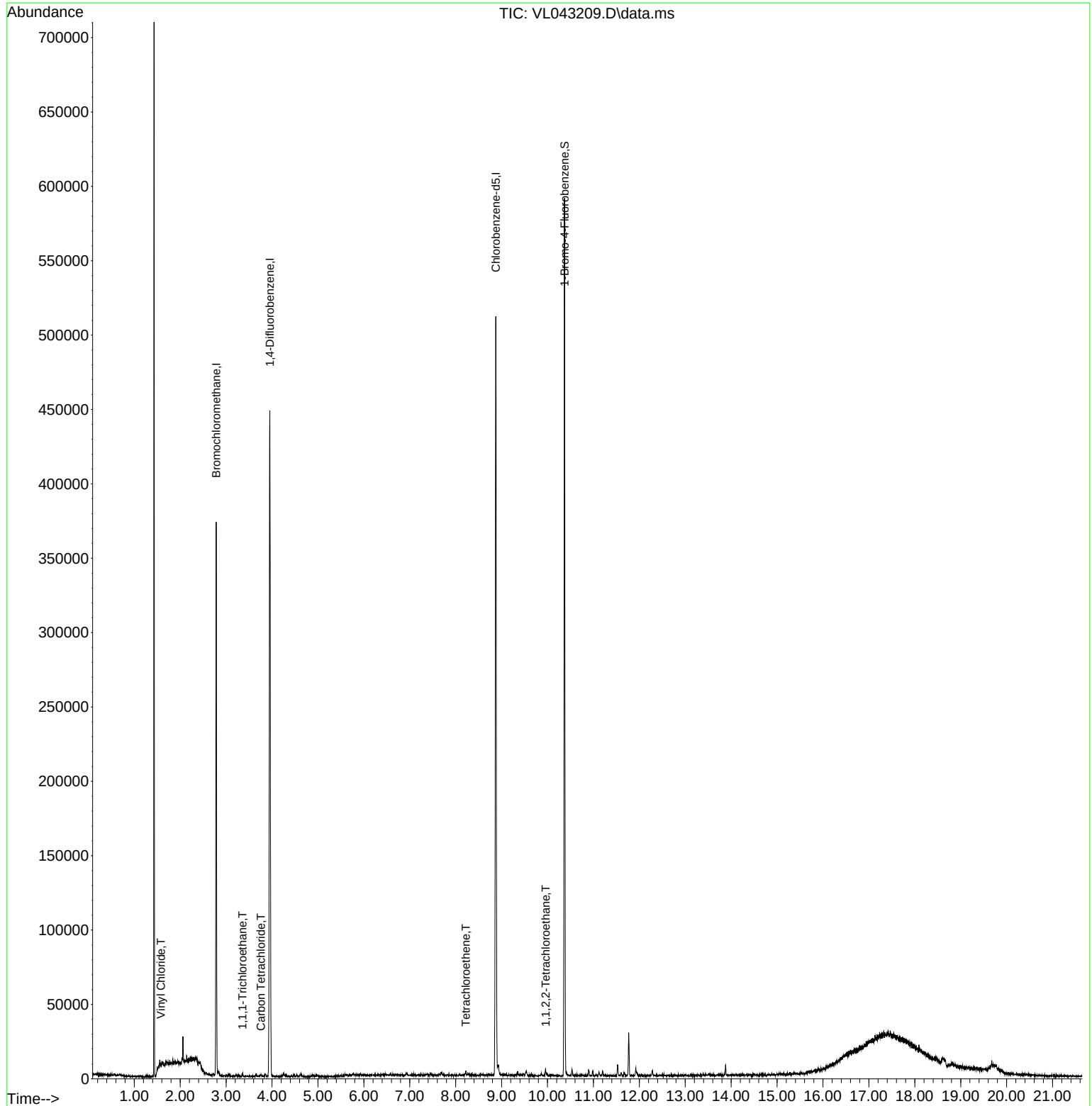
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111825\
Data File : VL043209.D
Acq On : 18 Nov 2025 12:49
Operator : SY/MD
Sample : VSTDIC0.03
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03

Quant Time: Nov 19 00:52:39 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Wed Nov 19 00:48:15 2025
Response via : Initial Calibration

Manual Integrations
APPROVED

Reviewed By : Semsettin Yesilyurt 11/19/2025
Supervised By : Mahesh Dadoda 11/19/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111825\
 Data File : VL043210.D
 Acq On : 18 Nov 2025 13:24
 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 11/19/2025
 Supervised By :Mahesh Dadoda 11/19/2025

Quant Time: Nov 19 00:53:26 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M

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

QLast Update : Wed Nov 19 00:48:15 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.784	49	98968	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.952	114	258461	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.872	117	211247	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.367	95	159814	10.321	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.200%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.499	85	197987	14.184	ppbv	99
3) Chlorodifluoromethane	1.476	51	182813	13.317	ppbv	98
4) Chloromethane	1.531	50	72636	13.918	ppbv	97
5) Vinyl Chloride	1.580	62	71671	12.557	ppbv	96
6) Bromomethane	1.667	94	38265	13.830	ppbv	98
7) Chloroethane	1.703	64	29584	13.309	ppbv	98
8) Dichlorotetrafluoroethane	1.554	85	165709	14.271	ppbv	97
9) Propene	1.483	41	81393m	12.782	ppbv	
10) Heptane	4.972	43	225935	12.934	ppbv	100
11) Trichlorofluoromethane	1.874	101	200703	14.840	ppbv	96
12) 1,1,2-Trichlorotrifluo...	2.137	101	152772	14.469	ppbv	98
13) Ethanol	1.719	45	25468	12.425	ppbv	99
14) Bromoethene	1.781	108	55813	13.789	ppbv	96
15) Acetone	1.832	43	161036	11.712	ppbv	99
16) 1,3-Butadiene	1.609	39	81077	13.226	ppbv	99
17) tert-Butyl alcohol	2.036	59	257617	14.274	ppbv	99
18) 1,1-Dichloroethene	2.033	96	65731	13.370	ppbv	96
19) Isopropyl Alcohol	1.881	45	105271	13.549	ppbv	99
20) Methylene Chloride	2.059	84	59798	15.164	ppbv	93
21) Allyl Chloride	2.094	41	126959	13.724	ppbv	96
22) trans-1,2-Dichloroethene	2.337	96	77386	13.772	ppbv	94
23) Vinyl Acetate	2.457	43	232315	13.995	ppbv	99
24) 1,1-Dichloroethane	2.405	63	155017	14.292	ppbv	98
25) Ethyl Acetate	2.829	43	394074	13.265	ppbv	99
26) Hexane	2.823	57	172303	13.252	ppbv	97
27) Carbon Disulfide	2.150	76	191612	14.435	ppbv	97
28) Methyl tert-Butyl Ether	2.434	73	91132	14.279	ppbv	97
29) Chloroform	2.845	83	262803	14.221	ppbv	100
30) Cyclohexane	3.852	84	152015	13.946	ppbv	94
31) cis-1,2-Dichloroethene	2.716	61	180647	13.978	ppbv	98
32) 1,1,1-Trichloroethane	3.363	97	276915	13.930	ppbv	98
34) 2-Butanone	2.551	43	253855	13.914	ppbv	100
35) Carbon Tetrachloride	3.755	117	279560	14.250	ppbv	96
36) Benzene	3.651	78	348892	14.096	ppbv	99
37) 1,2-Dichloroethane	3.214	62	214248	14.798	ppbv	98
38) Trichloroethene	4.541	130	137027	14.123	ppbv	93
39) 1,2-Dichloropropane	4.302	63	128700	14.206	ppbv	98
40) 1,4-Dioxane	4.571	88	55905	13.728	ppbv #	95
41) Tetrahydrofuran	3.043	42	139722	13.868	ppbv	99
42) Bromodichloromethane	4.480	83	294008	14.721	ppbv	97
43) Methyl Methacrylate	4.872	69	179110	13.633	ppbv	100
44) 2,2,4-Trimethylpentane	4.632	57	595778	14.014	ppbv	99
45) t-1,3-Dichloropropene	6.406	75	177678	14.508	ppbv	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111825\
 Data File : VL043210.D
 Acq On : 18 Nov 2025 13:24
 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 11/19/2025
 Supervised By :Mahesh Dadoda 11/19/2025

Quant Time: Nov 19 00:53:26 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M

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

QLast Update : Wed Nov 19 00:48:15 2025

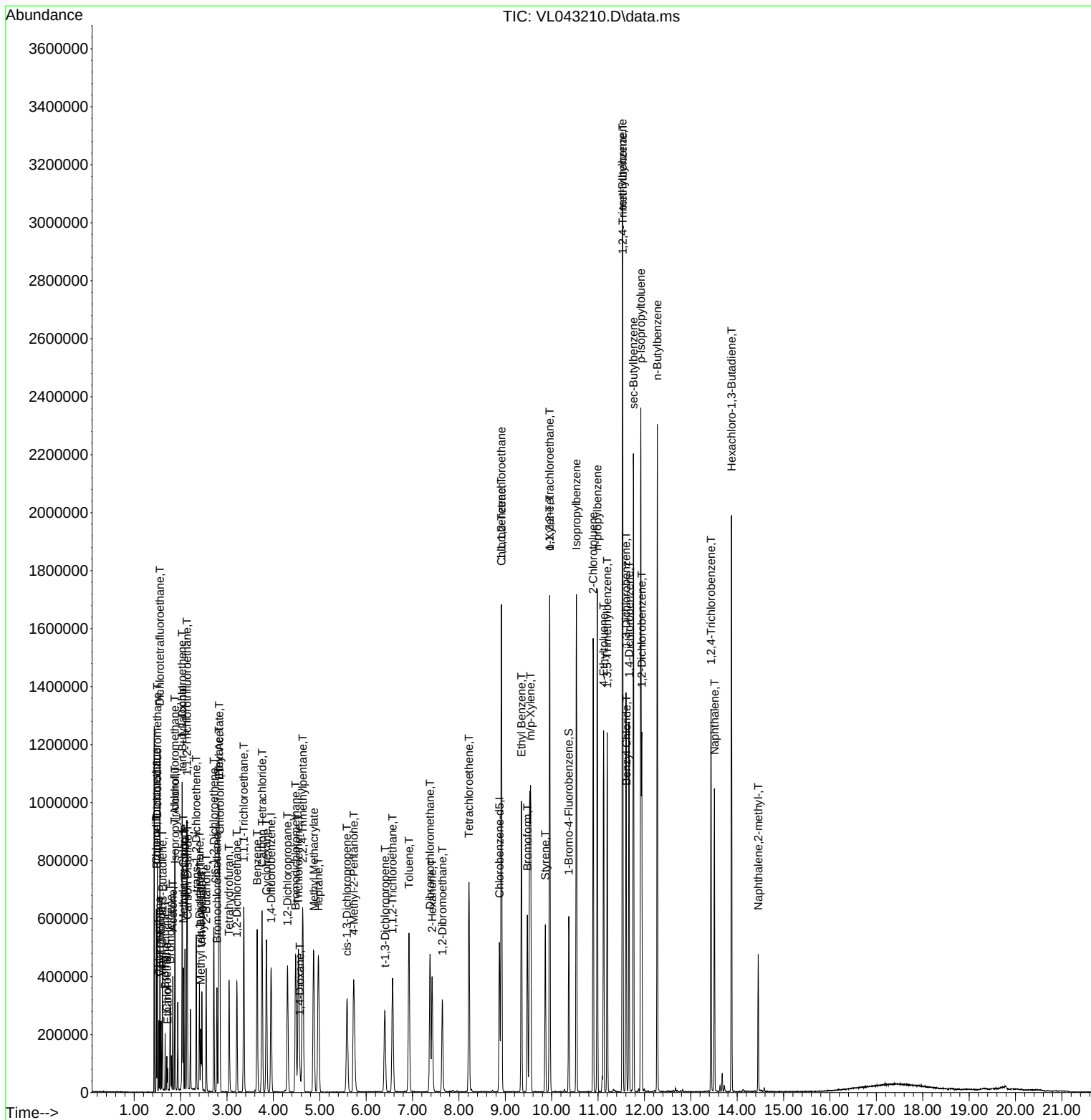
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.587	75	205226	14.270	ppbv	100
47) 1,1,2-Trichloroethane	6.571	97	132701	13.738	ppbv	92
48) Dibromochloromethane	7.377	129	240736	14.564	ppbv	99
49) Bromoform	9.477	173	211325	14.434	ppbv	99
50) 4-Methyl-2-Pentanone	5.732	43	354421	13.790	ppbv	99
51) 2-Hexanone	7.422	43	280742	14.067	ppbv #	100
52) Tetrachloroethene	8.218	164	125132	13.591	ppbv	93
53) Toluene	6.924	91	414411	14.050	ppbv	99
54) 1,2-Dibromoethane	7.642	107	203913	14.413	ppbv	99
56) 1,1,1,2-Tetrachloroethane	8.917	131	214673	13.827	ppbv	99
57) Chlorobenzene	8.914	112	301986	13.923	ppbv	98
58) Ethyl Benzene	9.348	91	579890	14.262	ppbv	99
59) m/p-Xylene	9.545	91	916113m	28.000	ppbv	
60) o-Xylene	9.956	91	450260	13.826	ppbv	99
61) Styrene	9.862	104	204972	14.382	ppbv	99
62) Isopropylbenzene	10.532	105	803487	13.791	ppbv	99
63) 1,1,2,2-Tetrachloroethane	9.956	83	280254	13.557	ppbv	99
64) n-propylbenzene	10.986	120	205637	13.737	ppbv	100
65) tert-Butylbenzene	11.526	119	689352	13.249	ppbv	98
66) Benzyl Chloride	11.610	91	71386	13.520	ppbv	100
67) sec-Butylbenzene	11.762	105	972780	13.394	ppbv	100
69) p-Isopropyltoluene	11.921	119	836888	13.602	ppbv	99
70) n-Butylbenzene	12.277	91	838598	14.050	ppbv	99
71) 2-Chlorotoluene	10.895	91	625884	13.976	ppbv	100
72) 4-Ethyltoluene	11.121	105	553654	13.961	ppbv	99
73) 1,3,5-Trimethylbenzene	11.199	105	460783	13.846	ppbv	97
74) 1,2,4-Trimethylbenzene	11.533	105	486995	13.409	ppbv	97
75) 1,3-Dichlorobenzene	11.604	146	292143	13.784	ppbv	99
76) 1,4-Dichlorobenzene	11.668	146	294723	13.903	ppbv	99
77) 1,2-Dichlorobenzene	11.944	146	273467	13.420	ppbv	98
78) Hexachloro-1,3-Butadiene	13.876	225	211153	12.416	ppbv	99
79) Naphthalene	13.510	128	473229	14.670	ppbv	99
80) Naphthalene,2-methyl-	14.452	142	139019	16.418	ppbv	99
81) 1,2,4-Trichlorobenzene	13.436	180	216260	14.990	ppbv	99

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

Manual Integrations APPROVED

Quant Time: Nov 19 00:53:26 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Wed Nov 19 00:48:15 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111825\
 Data File : VL043211.D
 Acq On : 18 Nov 2025 13:56
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL111825

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 11/19/2025
 Supervised By :Mahesh Dadoda 11/19/2025

Quant Time: Nov 19 01:34:00 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M

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

QLast Update : Wed Nov 19 01:11:25 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.784	49	97854	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.956	114	261914	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.879	117	216212	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.374 95 159242 10.048 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 100.500%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.499	85	133374	9.664	ppbv	98
3) Chlorodifluoromethane	1.476	51	124858	9.199	ppbv	98
4) Chloromethane	1.535	50	46906	9.090	ppbv	95
5) Vinyl Chloride	1.580	62	47932	8.493	ppbv	95
6) Bromomethane	1.667	94	22230	8.126	ppbv	99
7) Chloroethane	1.703	64	19854	9.033	ppbv	98
8) Dichlorotetrafluoroethane	1.554	85	110587	9.632	ppbv	97
9) Propene	1.483	41	54006m	9.370	ppbv	
10) Heptane	4.975	43	149202	8.698	ppbv	99
11) Trichlorofluoromethane	1.878	101	134746	10.077	ppbv	97
12) 1,1,2-Trichlorotrifluo...	2.140	101	100984	9.673	ppbv	99
13) Ethanol	1.719	45	15371	7.584	ppbv	92
14) Bromoethene	1.781	108	36979	9.240	ppbv	98
15) Acetone	1.832	43	104830	7.711	ppbv	99
16) 1,3-Butadiene	1.609	39	54795	9.041	ppbv	96
17) tert-Butyl alcohol	2.036	59	164987	9.245	ppbv	99
18) 1,1-Dichloroethene	2.033	96	43833	9.017	ppbv	99
19) Isopropyl Alcohol	1.884	45	64772	8.431	ppbv	97
20) Methylene Chloride	2.062	84	41254	10.323	ppbv	95
21) Allyl Chloride	2.095	41	75516	8.256	ppbv	97
22) trans-1,2-Dichloroethene	2.341	96	50228	9.041	ppbv	92
23) Vinyl Acetate	2.460	43	140156	8.539	ppbv	98
24) 1,1-Dichloroethane	2.409	63	103187	9.622	ppbv	97
25) Ethyl Acetate	2.829	43	258609	8.820	ppbv	99
26) Hexane	2.826	57	114312	8.892	ppbv	98
27) Carbon Disulfide	2.150	76	125048	9.528	ppbv	97
28) Methyl tert-Butyl Ether	2.438	73	64183	10.171	ppbv	98
29) Chloroform	2.846	83	173977	9.521	ppbv	99
30) Cyclohexane	3.852	84	98598	9.148	ppbv	97
31) cis-1,2-Dichloroethene	2.719	61	119843	9.379	ppbv	98
32) 1,1,1-Trichloroethane	3.363	97	182262	9.358	ppbv	98
34) 2-Butanone	2.551	43	160977	8.707	ppbv	98
35) Carbon Tetrachloride	3.761	117	182902	9.200	ppbv	98
36) Benzene	3.655	78	233094	9.293	ppbv	99
37) 1,2-Dichloroethane	3.214	62	143363	9.772	ppbv	98
38) Trichloroethene	4.542	130	90993	9.272	ppbv	95
39) 1,2-Dichloropropane	4.305	63	83416	9.086	ppbv	95
40) 1,4-Dioxane	4.571	88	32109	7.780	ppbv #	95
41) Tetrahydrofuran	3.046	42	90769	8.891	ppbv	98
42) Bromodichloromethane	4.486	83	195442	9.657	ppbv	96
43) Methyl Methacrylate	4.872	69	116325	8.737	ppbv	98
44) 2,2,4-Trimethylpentane	4.635	57	393438	9.133	ppbv	99
45) t-1,3-Dichloropropene	6.409	75	97587	7.863	ppbv	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111825\
 Data File : VL043211.D
 Acq On : 18 Nov 2025 13:56
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL111825

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 11/19/2025
 Supervised By :Mahesh Dadoda 11/19/2025

Quant Time: Nov 19 01:34:00 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M

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

QLast Update : Wed Nov 19 01:11:25 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.593	75	115476	7.924	ppbv	97
47) 1,1,2-Trichloroethane	6.577	97	88525	9.086	ppbv	95
48) Dibromochloromethane	7.380	129	159365	9.514	ppbv	99
49) Bromoform	9.477	173	134790	9.085	ppbv	99
50) 4-Methyl-2-Pentanone	5.742	43	224791	8.631	ppbv	99
51) 2-Hexanone	7.429	43	166506	8.233	ppbv #	100
52) Tetrachloroethene	8.222	164	82890	8.884	ppbv	98
53) Toluene	6.924	91	273172	9.197	ppbv	99
54) 1,2-Dibromoethane	7.645	107	124804	8.705	ppbv	99
56) 1,1,1,2-Tetrachloroethane	8.921	131	142512	8.969	ppbv	98
57) Chlorobenzene	8.917	112	199373	8.981	ppbv	96
58) Ethyl Benzene	9.351	91	381474	9.167	ppbv	97
59) m/p-Xylene	9.549	91	604165m	18.108	ppbv	
60) o-Xylene	9.960	91	295836	8.876	ppbv	99
61) Styrene	9.866	104	127117	8.714	ppbv	97
62) Isopropylbenzene	10.536	105	525717	8.816	ppbv	99
63) 1,1,2,2-Tetrachloroethane	9.960	83	178591	8.421	ppbv	100
64) n-propylbenzene	10.986	120	131634	8.591	ppbv	96
65) tert-Butylbenzene	11.529	119	450819	8.465	ppbv	99
66) Benzyl Chloride	11.614	91	27878	5.159	ppbv	99
67) sec-Butylbenzene	11.766	105	623520	8.388	ppbv	100
69) p-Isopropyltoluene	11.924	119	520880	8.272	ppbv	99
70) n-Butylbenzene	12.280	91	513027	8.398	ppbv	99
71) 2-Chlorotoluene	10.898	91	396434	8.649	ppbv	99
72) 4-Ethyltoluene	11.122	105	356325	8.779	ppbv	99
73) 1,3,5-Trimethylbenzene	11.199	105	294977	8.660	ppbv	95
74) 1,2,4-Trimethylbenzene	11.533	105	314606	8.463	ppbv	94
75) 1,3-Dichlorobenzene	11.604	146	180491	8.320	ppbv	99
76) 1,4-Dichlorobenzene	11.669	146	179491	8.273	ppbv	99
77) 1,2-Dichlorobenzene	11.944	146	166137	7.966	ppbv	99
78) Hexachloro-1,3-Butadiene	13.879	225	125707	7.222	ppbv	100
79) Naphthalene	13.510	128	273029	8.270	ppbv	99
80) Naphthalene,2-methyl-	14.455	142	74802	8.631	ppbv	97
81) 1,2,4-Trichlorobenzene	13.436	180	125470	8.497	ppbv	99

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111825\
 Data File : VL043211.D
 Acq On : 18 Nov 2025 13:56
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL111825

Quant Time: Nov 19 01:34:00 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Wed Nov 19 01:11:25 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	1.410	1.363	3.3	95	0.00
3	Chlorodifluoromethane	1.387	1.276	8.0	90	0.00
4	Chloromethane	0.527	0.479	9.1	90	0.00
5 T	Vinyl Chloride	0.577	0.490	15.1	94	0.00
6 T	Bromomethane	0.280	0.227	18.9	84	0.00
7	Chloroethane	0.225	0.203	9.8	97	0.00
8 T	Dichlorotetrafluoroethane	1.173	1.130	3.7	96	0.00
9 T	Propene	0.589	0.552	6.3	103	0.00
10 T	Heptane	1.753	1.525	13.0	88	0.00
11 T	Trichlorofluoromethane	1.367	1.377	-0.7	103	0.00
12 T	1,1,2-Trichlorotrifluoroeth	1.067	1.032	3.3	97	0.00
13	Ethanol	0.207	0.157	24.2	88	0.00
14 T	Bromoethene	0.409	0.378	7.6	97	0.00
15 T	Acetone	1.389	1.071	22.9	97	0.00
16 T	1,3-Butadiene	0.619	0.560	9.5	95	0.00
17	tert-Butyl alcohol	1.824	1.686	7.6	92	0.00
18 T	1,1-Dichloroethene	0.497	0.448	9.9	95	0.00
19 T	Isopropyl Alcohol	0.785	0.662	15.7	90	0.00
20 T	Methylene Chloride	0.600	0.422	29.7	99	0.00
21 T	Allyl Chloride	0.935	0.772	17.4	85	0.00
22 T	trans-1,2-Dichloroethene	0.568	0.513	9.7	96	0.00
23 T	Vinyl Acetate	1.677	1.432	14.6	82	0.00
24 T	1,1-Dichloroethane	1.096	1.054	3.8	96	0.00
25 T	Ethyl Acetate	2.996	2.643	11.8	89	0.00
26 T	Hexane	1.314	1.168	11.1	88	0.00
27 T	Carbon Disulfide	1.341	1.278	4.7	95	0.00
28 T	Methyl tert-Butyl Ether	0.645	0.656	-1.7	103	0.00
29 T	Chloroform	1.867	1.778	4.8	93	0.00
30 T	Cyclohexane	1.101	1.008	8.4	92	0.00
31 T	cis-1,2-Dichloroethene	1.306	1.225	6.2	92	0.00
32 T	1,1,1-Trichloroethane	1.990	1.863	6.4	92	0.00
33 I	1,4-Difluorobenzene	1.000	1.000	0.0	92	0.00
34 T	2-Butanone	0.706	0.615	12.9	88	0.00
35 T	Carbon Tetrachloride	0.759	0.698	8.0	91	0.00
36 T	Benzene	0.958	0.890	7.1	91	0.00
37 T	1,2-Dichloroethane	0.560	0.547	2.3	95	0.00
38 T	Trichloroethene	0.375	0.347	7.5	91	0.00
39 T	1,2-Dichloropropane	0.351	0.318	9.4	88	0.00
40 T	1,4-Dioxane	0.158	0.123	22.2	79	0.00
41 T	Tetrahydrofuran	0.390	0.347	11.0	87	0.00
42 T	Bromodichloromethane	0.773	0.746	3.5	92	0.00
43	Methyl Methacrylate	0.508	0.444	12.6	89	0.00
44 T	2,2,4-Trimethylpentane	1.645	1.502	8.7	89	0.00
45 T	t-1,3-Dichloropropene	0.474	0.373	21.3	76	0.00
46 T	cis-1,3-Dichloropropene	0.556	0.441	20.7	76	0.00
47 T	1,1,2-Trichloroethane	0.372	0.338	9.1	91	0.01
48 T	Dibromochloromethane	0.640	0.608	5.0	91	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111825\
 Data File : VL043211.D
 Acq On : 18 Nov 2025 13:56
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL111825

Quant Time: Nov 19 01:34:00 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Wed Nov 19 01:11:25 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	0.566	0.515	9.0	86	0.00
50 T	4-Methyl-2-Pentanone	0.994	0.858	13.7	84	0.00
51 T	2-Hexanone	0.772	0.636	17.6	80	0.00
52 T	Tetrachloroethene	0.356	0.316	11.2	89	0.00
53 T	Toluene	1.134	1.043	8.0	90	0.00
54 T	1,2-Dibromoethane	0.547	0.477	12.8	84	0.00
55 I	Chlorobenzene-d5	1.000	1.000	0.0	92	0.00
56	1,1,1,2-Tetrachloroethane	0.735	0.659	10.3	90	0.00
57 T	Chlorobenzene	1.027	0.922	10.2	88	0.00
58 T	Ethyl Benzene	1.925	1.764	8.4	89	0.00
59 T	m/p-Xylene	1.543	1.397	9.5	90	0.00
60 T	o-Xylene	1.542	1.368	11.3	89	0.00
61 T	Styrene	0.675	0.588	12.9	84	0.00
62	Isopropylbenzene	2.758	2.431	11.9	88	0.00
63 T	1,1,2,2-Tetrachloroethane	0.981	0.826	15.8	85	0.00
64	n-propylbenzene	0.709	0.609	14.1	85	0.00
65	tert-Butylbenzene	2.463	2.085	15.3	86	0.00
66 T	Benzyl Chloride	0.250	0.129	48.4#	49	0.00
67	sec-Butylbenzene	3.438	2.884	16.1	85	0.00
68 S	1-Bromo-4-Fluorobenzene	0.733	0.737	-0.5	92	0.00
69	p-Isopropyltoluene	2.912	2.409	17.3	83	0.00
70	n-Butylbenzene	2.825	2.373	16.0	83	0.00
71	2-Chlorotoluene	2.120	1.834	13.5	86	0.00
72 T	4-Ethyltoluene	1.877	1.648	12.2	87	0.00
73 T	1,3,5-Trimethylbenzene	1.575	1.364	13.4	86	0.00
74 T	1,2,4-Trimethylbenzene	1.719	1.455	15.4	87	0.00
75 T	1,3-Dichlorobenzene	1.003	0.835	16.7	82	0.00
76 T	1,4-Dichlorobenzene	1.003	0.830	17.2	81	0.00
77 T	1,2-Dichlorobenzene	0.965	0.768	20.4	81	0.00
78 T	Hexachloro-1,3-Butadiene	0.805	0.581	27.8	78	0.00
79 T	Naphthalene	1.527	1.263	17.3	78	0.00
80 T	Naphthalene,2-methyl-	0.401	0.346	13.7	80	0.00
81 T	1,2,4-Trichlorobenzene	0.683	0.580	15.1	79	0.00

(#) = Out of Range

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111825\
 Data File : VL043211.D
 Acq On : 18 Nov 2025 13:56
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL111825

Quant Time: Nov 19 01:34:00 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Wed Nov 19 01:11:25 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	9.664	3.4	95	0.00
3	Chlorodifluoromethane	10.000	9.199	8.0	90	0.00
4	Chloromethane	10.000	9.090	9.1	90	0.00
5 T	Vinyl Chloride	10.000	8.493	15.1	94	0.00
6 T	Bromomethane	10.000	8.126	18.7	84	0.00
7	Chloroethane	10.000	9.033	9.7	97	0.00
8 T	Dichlorotetrafluoroethane	10.000	9.632	3.7	96	0.00
9 T	Propene	10.000	9.370	6.3	103	0.00
10 T	Heptane	10.000	8.698	13.0	88	0.00
11 T	Trichlorofluoromethane	10.000	10.077	-0.8	103	0.00
12 T	1,1,2-Trichlorotrifluoroeth	10.000	9.673	3.3	97	0.00
13	Ethanol	10.000	7.584	24.2	88	0.00
14 T	Bromoethene	10.000	9.240	7.6	97	0.00
15 T	Acetone	10.000	7.711	22.9	97	0.00
16 T	1,3-Butadiene	10.000	9.041	9.6	95	0.00
17	tert-Butyl alcohol	10.000	9.245	7.6	92	0.00
18 T	1,1-Dichloroethene	10.000	9.017	9.8	95	0.00
19 T	Isopropyl Alcohol	10.000	8.431	15.7	90	0.00
20 T	Methylene Chloride	10.000	10.323	-3.2	99	0.00
21 T	Allyl Chloride	10.000	8.256	17.4	85	0.00
22 T	trans-1,2-Dichloroethene	10.000	9.041	9.6	96	0.00
23 T	Vinyl Acetate	10.000	8.539	14.6	82	0.00
24 T	1,1-Dichloroethane	10.000	9.622	3.8	96	0.00
25 T	Ethyl Acetate	10.000	8.820	11.8	89	0.00
26 T	Hexane	10.000	8.892	11.1	88	0.00
27 T	Carbon Disulfide	10.000	9.528	4.7	95	0.00
28 T	Methyl tert-Butyl Ether	10.000	10.171	-1.7	103	0.00
29 T	Chloroform	10.000	9.521	4.8	93	0.00
30 T	Cyclohexane	10.000	9.148	8.5	92	0.00
31 T	cis-1,2-Dichloroethene	10.000	9.379	6.2	92	0.00
32 T	1,1,1-Trichloroethane	10.000	9.358	6.4	92	0.00
33 I	1,4-Difluorobenzene	10.000	10.000	0.0	92	0.00
34 T	2-Butanone	10.000	8.707	12.9	88	0.00
35 T	Carbon Tetrachloride	10.000	9.200	8.0	91	0.00
36 T	Benzene	10.000	9.293	7.1	91	0.00
37 T	1,2-Dichloroethane	10.000	9.772	2.3	95	0.00
38 T	Trichloroethene	10.000	9.272	7.3	91	0.00
39 T	1,2-Dichloropropane	10.000	9.086	9.1	88	0.00
40 T	1,4-Dioxane	10.000	7.780	22.2	79	0.00
41 T	Tetrahydrofuran	10.000	8.891	11.1	87	0.00
42 T	Bromodichloromethane	10.000	9.657	3.4	92	0.00
43	Methyl Methacrylate	10.000	8.737	12.6	89	0.00
44 T	2,2,4-Trimethylpentane	10.000	9.133	8.7	89	0.00
45 T	t-1,3-Dichloropropene	10.000	7.863	21.4	76	0.00
46 T	cis-1,3-Dichloropropene	10.000	7.924	20.8	76	0.00
47 T	1,1,2-Trichloroethane	10.000	9.086	9.1	91	0.01
48 T	Dibromochloromethane	10.000	9.514	4.9	91	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111825\
 Data File : VL043211.D
 Acq On : 18 Nov 2025 13:56
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL111825

Quant Time: Nov 19 01:34:00 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Wed Nov 19 01:11:25 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	9.085	9.1	86	0.00
50 T	4-Methyl-2-Pentanone	10.000	8.631	13.7	84	0.00
51 T	2-Hexanone	10.000	8.233	17.7	80	0.00
52 T	Tetrachloroethene	10.000	8.884	11.2	89	0.00
53 T	Toluene	10.000	9.197	8.0	90	0.00
54 T	1,2-Dibromoethane	10.000	8.705	13.0	84	0.00
55 I	Chlorobenzene-d5	10.000	10.000	0.0	92	0.00
56	1,1,1,2-Tetrachloroethane	10.000	8.969	10.3	90	0.00
57 T	Chlorobenzene	10.000	8.981	10.2	88	0.00
58 T	Ethyl Benzene	10.000	9.167	8.3	89	0.00
59 T	m/p-Xylene	20.000	18.108	9.5	90	0.00
60 T	o-Xylene	10.000	8.876	11.2	89	0.00
61 T	Styrene	10.000	8.714	12.9	84	0.00
62	Isopropylbenzene	10.000	8.816	11.8	88	0.00
63 T	1,1,2,2-Tetrachloroethane	10.000	8.421	15.8	85	0.00
64	n-propylbenzene	10.000	8.591	14.1	85	0.00
65	tert-Butylbenzene	10.000	8.465	15.4	86	0.00
66 T	Benzyl Chloride	10.000	5.159	48.4#	49	0.00
67	sec-Butylbenzene	10.000	8.388	16.1	85	0.00
68 S	1-Bromo-4-Fluorobenzene	10.000	10.048	-0.5	92	0.00
69	p-Isopropyltoluene	10.000	8.272	17.3	83	0.00
70	n-Butylbenzene	10.000	8.398	16.0	83	0.00
71	2-Chlorotoluene	10.000	8.649	13.5	86	0.00
72 T	4-Ethyltoluene	10.000	8.779	12.2	87	0.00
73 T	1,3,5-Trimethylbenzene	10.000	8.660	13.4	86	0.00
74 T	1,2,4-Trimethylbenzene	10.000	8.463	15.4	87	0.00
75 T	1,3-Dichlorobenzene	10.000	8.320	16.8	82	0.00
76 T	1,4-Dichlorobenzene	10.000	8.273	17.3	81	0.00
77 T	1,2-Dichlorobenzene	10.000	7.966	20.3	81	0.00
78 T	Hexachloro-1,3-Butadiene	10.000	7.222	27.8	78	0.00
79 T	Naphthalene	10.000	8.270	17.3	78	0.00
80 T	Naphthalene,2-methyl-	10.000	8.631	13.7	80	0.00
81 T	1,2,4-Trichlorobenzene	10.000	8.497	15.0	79	0.00

(#) = Out of Range

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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name:	<u>Alliance</u>	Contract:	<u>GFEL01</u>
Lab Code:	<u>ACE</u>	SDG No.:	<u>Q3651</u>
Instrument ID:	<u>MSVOA_L</u>	Calibration Date/Time:	<u>11/18/2025</u> <u>10:02</u>
Lab File ID:	<u>VL043204.D</u>	Init. Calib. Date(s):	<u>11/18/2025</u> <u>11/18/2025</u>
Heated Purge: (Y/N)	<u>N</u>	Init. Calib. Time(s):	<u>09:29</u> <u>13:24</u>
GC Column:	<u>RTX-1</u>	ID:	<u>0.32</u> (mm)

COMPOUND	RRF	RRF010	MIN RRF	%D	MAX%D
Vinyl Chloride	0.577	0.486		-15.77	
Heptane	1.753	1.604		-8.5	
1,1-Dichloroethane	1.096	1.018		-7.12	
Cyclohexane	1.101	1.024		-6.99	
cis-1,2-Dichloroethene	1.306	1.240		-5.05	
1,1,1-Trichloroethane	1.990	1.884		-5.33	
2,2,4-Trimethylpentane	1.645	1.555		-5.47	
Benzene	0.958	0.905		-5.53	
Trichloroethene	0.375	0.353		-5.87	
Toluene	1.134	1.075		-5.2	
Tetrachloroethene	0.356	0.329		-7.58	
Ethyl Benzene	1.925	1.821		-5.4	
m/p-Xylene	1.543	1.434		-7.06	
o-Xylene	1.542	1.419		-7.98	
1,3,5-Trimethylbenzene	1.575	1.456		-7.56	
1,2,4-Trimethylbenzene	1.719	1.548		-9.95	
Naphthalene	1.527	1.496		-2.03	
1-Bromo-4-Fluorobenzene	0.733	0.735		0.27	
Hexane	1.314	1.235		-6.01	

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\VL111825\
 Data File : VL043204.D
 Acq On : 18 Nov 2025 10:02
 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 11/19/2025
 Supervised By :Mahesh Dadoda 11/19/2025

Quant Time: Nov 19 00:49:32 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M

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

QLast Update : Wed Nov 19 00:48:15 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.781	49	105095	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.949	114	283830	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.872	117	234772	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.367 95 172524 10.025 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 100.300%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.496	85	140789	9.498	ppbv	100
3) Chlorodifluoromethane	1.473	51	138443	9.497	ppbv	100
4) Chloromethane	1.531	50	52372	9.450	ppbv	100
5) Vinyl Chloride	1.577	62	51045	8.422	ppbv	100
6) Bromomethane	1.664	94	26542	9.034	ppbv	100
7) Chloroethane	1.700	64	20375	8.632	ppbv	100
8) Dichlorotetrafluoroethane	1.551	85	114670	9.300	ppbv	100
9) Propene	1.480	41	52671	7.789	ppbv #	1
10) Heptane	4.965	43	168611	9.090	ppbv	100
11) Trichlorofluoromethane	1.875	101	130362	9.077	ppbv	100
12) 1,1,2-Trichlorotrifluo...	2.137	101	103679	9.247	ppbv	100
13) Ethanol	1.716	45	17464	8.023	ppbv	100
14) Bromoethene	1.777	108	38037	8.849	ppbv	100
15) Acetone	1.832	43	108422	7.426	ppbv	100
16) 1,3-Butadiene	1.606	39	57871	8.890	ppbv	100
17) tert-Butyl alcohol	2.036	59	179201	9.350	ppbv	100
18) 1,1-Dichloroethene	2.030	96	46313	8.871	ppbv	100
19) Isopropyl Alcohol	1.881	45	71862	8.710	ppbv	100
20) Methylene Chloride	2.056	84	41868	9.708	ppbv	100
21) Allyl Chloride	2.091	41	89266	9.087	ppbv	100
22) trans-1,2-Dichloroethene	2.334	96	52470	8.793	ppbv	100
23) Vinyl Acetate	2.457	43	170459	9.670	ppbv	100
24) 1,1-Dichloroethane	2.405	63	106970	9.287	ppbv	100
25) Ethyl Acetate	2.829	43	289921	9.190	ppbv	100
26) Hexane	2.820	57	129809	9.402	ppbv	100
27) Carbon Disulfide	2.146	76	132086	9.371	ppbv	100
28) Methyl tert-Butyl Ether	2.434	73	62115	9.165	ppbv	100
29) Chloroform	2.842	83	187620	9.561	ppbv	100
30) Cyclohexane	3.846	84	107621	9.297	ppbv	100
31) cis-1,2-Dichloroethene	2.716	61	130357	9.499	ppbv	100
32) 1,1,1-Trichloroethane	3.360	97	198036	9.381	ppbv	100
34) 2-Butanone	2.551	43	182749	9.121	ppbv	100
35) Carbon Tetrachloride	3.755	117	200831	9.322	ppbv	100
36) Benzene	3.648	78	256954	9.453	ppbv	100
37) 1,2-Dichloroethane	3.211	62	150769	9.483	ppbv	100
38) Trichloroethene	4.535	130	100136	9.398	ppbv	100
39) 1,2-Dichloropropane	4.302	63	95097	9.559	ppbv	100
40) 1,4-Dioxane	4.567	88	40441	9.043	ppbv #	100
41) Tetrahydrofuran	3.046	42	104294	9.426	ppbv	100
42) Bromodichloromethane	4.477	83	211504	9.643	ppbv	100
43) Methyl Methacrylate	4.865	69	131003	9.080	ppbv	100
44) 2,2,4-Trimethylpentane	4.626	57	441234	9.451	ppbv	100
45) t-1,3-Dichloropropene	6.399	75	129122	9.601	ppbv	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111825\
 Data File : VL043204.D
 Acq On : 18 Nov 2025 10:02
 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 11/19/2025
 Supervised By :Mahesh Dadoda 11/19/2025

Quant Time: Nov 19 00:49:32 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M

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

QLast Update : Wed Nov 19 00:48:15 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.584	75	151655	9.603	ppbv	100
47) 1,1,2-Trichloroethane	6.564	97	97512	9.193	ppbv	100
48) Dibromochloromethane	7.377	129	175529	9.670	ppbv	100
49) Bromoform	9.474	173	157563	9.800	ppbv	100
50) 4-Methyl-2-Pentanone	5.733	43	268369	9.509	ppbv	100
51) 2-Hexanone	7.419	43	208268	9.503	ppbv #	100
52) Tetrachloroethene	8.212	164	93518	9.249	ppbv	100
53) Toluene	6.920	91	305169	9.422	ppbv	100
54) 1,2-Dibromoethane	7.639	107	148973	9.588	ppbv	100
56) 1,1,1,2-Tetrachloroethane	8.914	131	158856	9.207	ppbv	100
57) Chlorobenzene	8.911	112	227490	9.438	ppbv	100
58) Ethyl Benzene	9.345	91	427530	9.461	ppbv	100
59) m/p-Xylene	9.542	91	673371m	18.519	ppbv	
60) o-Xylene	9.956	91	333044	9.202	ppbv	100
61) Styrene	9.863	104	152172	9.607	ppbv	100
62) Isopropylbenzene	10.533	105	600155	9.269	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.953	83	209272	9.109	ppbv	100
64) n-propylbenzene	10.982	120	154239	9.271	ppbv	100
65) tert-Butylbenzene	11.523	119	522106	9.029	ppbv	100
66) Benzyl Chloride	11.607	91	56620	9.649	ppbv	100
67) sec-Butylbenzene	11.762	105	729573	9.039	ppbv	100
69) p-Isopropyltoluene	11.918	119	624586	9.135	ppbv	100
70) n-Butylbenzene	12.274	91	619610	9.341	ppbv	100
71) 2-Chlorotoluene	10.895	91	460118	9.245	ppbv	100
72) 4-Ethyltoluene	11.118	105	410587	9.316	ppbv	100
73) 1,3,5-Trimethylbenzene	11.196	105	341900	9.244	ppbv	100
74) 1,2,4-Trimethylbenzene	11.529	105	363476	9.005	ppbv	100
75) 1,3-Dichlorobenzene	11.601	146	219894	9.335	ppbv	100
76) 1,4-Dichlorobenzene	11.665	146	220576	9.363	ppbv	100
77) 1,2-Dichlorobenzene	11.940	146	204826	9.044	ppbv	100
78) Hexachloro-1,3-Butadiene	13.876	225	161034	8.520	ppbv	100
79) Naphthalene	13.507	128	351148	9.795	ppbv	100
80) Naphthalene,2-methyl-	14.452	142	93113	9.895	ppbv	100
81) 1,2,4-Trichlorobenzene	13.436	180	159091	9.923	ppbv	100

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



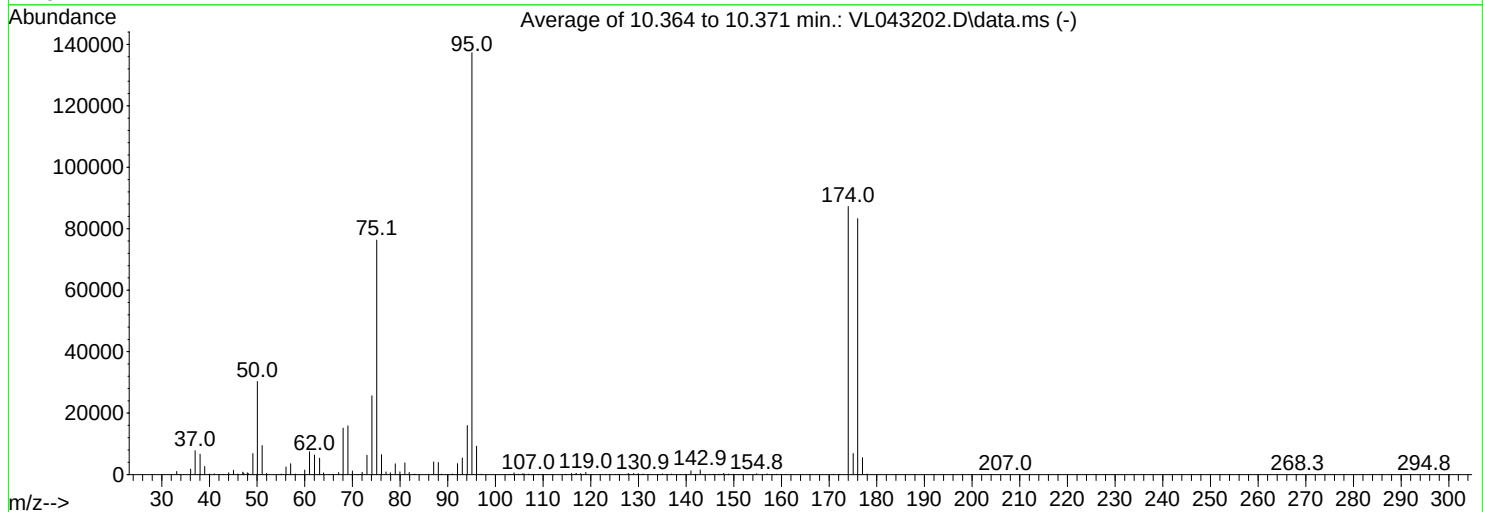
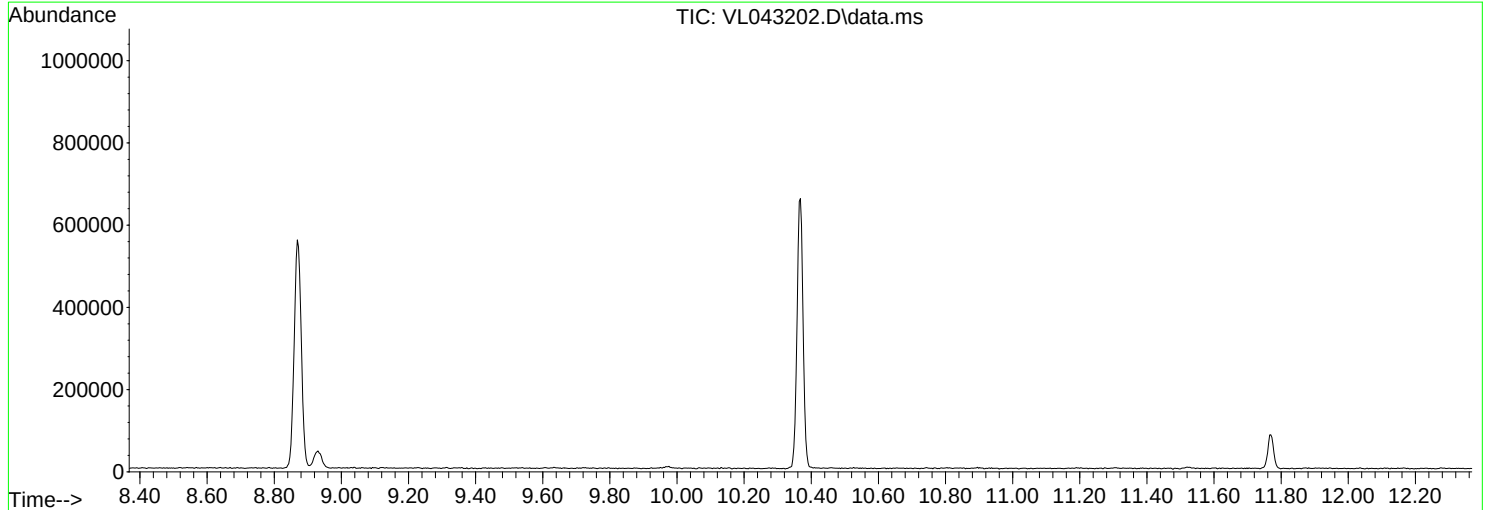
QC SAMPLE DATA

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111825\
Data File : VL043202.D
Acq On : 18 Nov 2025 08:46
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\VL111825AIR.M
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
Last Update : Wed Nov 19 01:11:25 2025



AutoFind: Scans 3175, 3176, 3177; Background Corrected with Scan 3156

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	22.1	30285	PASS
75	95	30	66	55.6	76296	PASS
95	95	100	100	100.0	137266	PASS
96	95	5	9	6.7	9227	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	63.6	87269	PASS
175	174	4	9	7.8	6847	PASS
176	174	93	101	95.5	83301	PASS
177	176	5	9	6.6	5509	PASS

Average of 10.364 to 10.371 min.: VL043202.D\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
33.15	1017	45.05	1373	56.05	2485	67.10	650
33.80	90	45.95	190	57.05	3511	68.05	1515
36.05	1728	47.00	799	58.00	209	69.05	1587
37.00	7775	47.20	474	60.00	1493	70.00	1182
38.05	6647	47.95	600	61.00	7430	70.90	18
39.00	2637	48.20	316	62.05	6404	71.20	48
40.05	176	49.10	6876	63.10	5348	72.05	772
41.00	228	50.05	30285	63.95	548	73.05	6279
42.20	99	51.05	9432	65.10	18	74.10	25637
43.00	63	52.00	422	65.75	54	75.10	76296
44.05	598	55.05	162	66.10	23	76.10	6470

Average of 10.364 to 10.371 min.: VL043202.D\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
77.05	853	88.00	3931	102.80	24	109.85	96
77.95	601	88.70	128	103.10	20	110.85	101
79.00	3536	90.95	202	103.90	564	111.80	44
79.95	911	92.05	3581	104.90	156	112.20	28
81.00	3819	93.05	5411	105.75	294	114.70	70
81.90	690	94.10	15989	106.00	240	114.95	67
82.90	77	95.05	137266	106.95	132	115.95	360
83.10	136	96.05	9227	107.65	48	116.80	153
84.15	40	97.00	116	108.10	27	116.95	414
86.00	131	97.90	24	109.00	61	117.90	356
87.05	4162	102.10	22	109.70	38	118.95	710

Average of 10.364 to 10.371 min.: VL043202.D\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
123.10	19	135.05	222	145.80	142	157.00	250
123.90	99	135.90	30	146.10	100	158.60	28
125.20	19	136.95	182	146.80	34	159.00	120
125.70	56	138.90	65	147.10	127	161.00	78
126.10	58	139.90	157	147.90	406	170.90	87
127.85	394	141.00	1242	148.90	165	172.20	73
128.10	59	141.90	141	149.95	156	174.00	87269
129.00	325	142.95	1524	151.00	22	175.05	6847
129.95	344	143.70	75	151.80	76	176.00	83301
130.95	175	144.00	78	152.90	62	177.00	5509
134.60	21	145.00	87	154.80	296	177.95	166

Average of 10.364 to 10.371 min.: VL043202.D\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
207.00	28						
268.30	20						
294.80	17						

Report of Analysis

Client: GFE LLC
Project: 316 TO 326 WESTBURY AVE
Client Sample ID: VL1118ABL01
Lab Sample ID: VL1118ABL01
Analytical Method: TO-15
Sample Wt/Vol: 400 mL

Date Collected:
Date Received:
SDG No.: Q3651
Matrix: Air
Test: VOCMS Group2

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qua.	DF	MDL ug/m3	LOQ / CRQL ug/m3	Date Ana.	BatchID
TARGETS									
75-01-4	Vinyl Chloride	0.030	0.080	U	1	0.080	0.080	11/18/25 14:41	VL111825
142-82-5	Heptane	0.17	0.70	U	1	0.70	2.05	11/18/25 14:41	VL111825
75-34-3	1,1-Dichloroethane	0.13	0.53	U	1	0.53	2.02	11/18/25 14:41	VL111825
110-82-7	Cyclohexane	0.22	0.76	U	1	0.76	1.72	11/18/25 14:41	VL111825
156-59-2	cis-1,2-Dichloroethene	0.10	0.40	U	1	0.40	1.98	11/18/25 14:41	VL111825
71-55-6	1,1,1-Trichloroethane	0.020	0.11	U	1	0.11	0.16	11/18/25 14:41	VL111825
540-84-1	2,2,4-Trimethylpentane	0.14	0.65	U	1	0.65	2.34	11/18/25 14:41	VL111825
71-43-2	Benzene	0.080	0.26	U	1	0.26	1.60	11/18/25 14:41	VL111825
79-01-6	Trichloroethene	0.020	0.11	U	1	0.11	0.16	11/18/25 14:41	VL111825
108-88-3	Toluene	0.16	0.60	U	1	0.60	1.88	11/18/25 14:41	VL111825
127-18-4	Tetrachloroethene	0.020	0.14	U	1	0.14	0.20	11/18/25 14:41	VL111825
100-41-4	Ethyl Benzene	0.19	0.83	U	1	0.83	2.17	11/18/25 14:41	VL111825
179601-23-1	m/p-Xylene	0.41	1.78	U	1	1.78	4.34	11/18/25 14:41	VL111825
95-47-6	o-Xylene	0.21	0.91	U	1	0.91	2.17	11/18/25 14:41	VL111825
108-67-8	1,3,5-Trimethylbenzene	0.18	0.88	U	1	0.88	2.46	11/18/25 14:41	VL111825
95-63-6	1,2,4-Trimethylbenzene	0.18	0.88	U	1	0.88	2.46	11/18/25 14:41	VL111825
91-20-3	Naphthalene	0.010	0.050	U	1	0.050	0.52	11/18/25 14:41	VL111825
110-54-3	Hexane	0.16	0.56	U	1	0.56	1.76	11/18/25 14:41	VL111825

SURROGATES

460-00-4	1-Bromo-4-Fluorobenzene	10.0		65 - 135	100%	SPK: 10
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INTERNAL STANDARDS

	Area Count	
74-97-5	Bromochloromethane	96000
540-36-3	1,4-Difluorobenzene	263000
3114-55-4	Chlorobenzene-d5	209000

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\VL111825\
 Data File : VL043212.D
 Acq On : 18 Nov 2025 14:41
 Operator : SY/MD
 Sample : VL1118ABL01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1118ABL01

Quant Time: Nov 19 01:34:47 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Wed Nov 19 01:11:25 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.787	49	95971	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.959	114	262557	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.878	117	209184	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	10.374	95	153824	10.032	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.300%

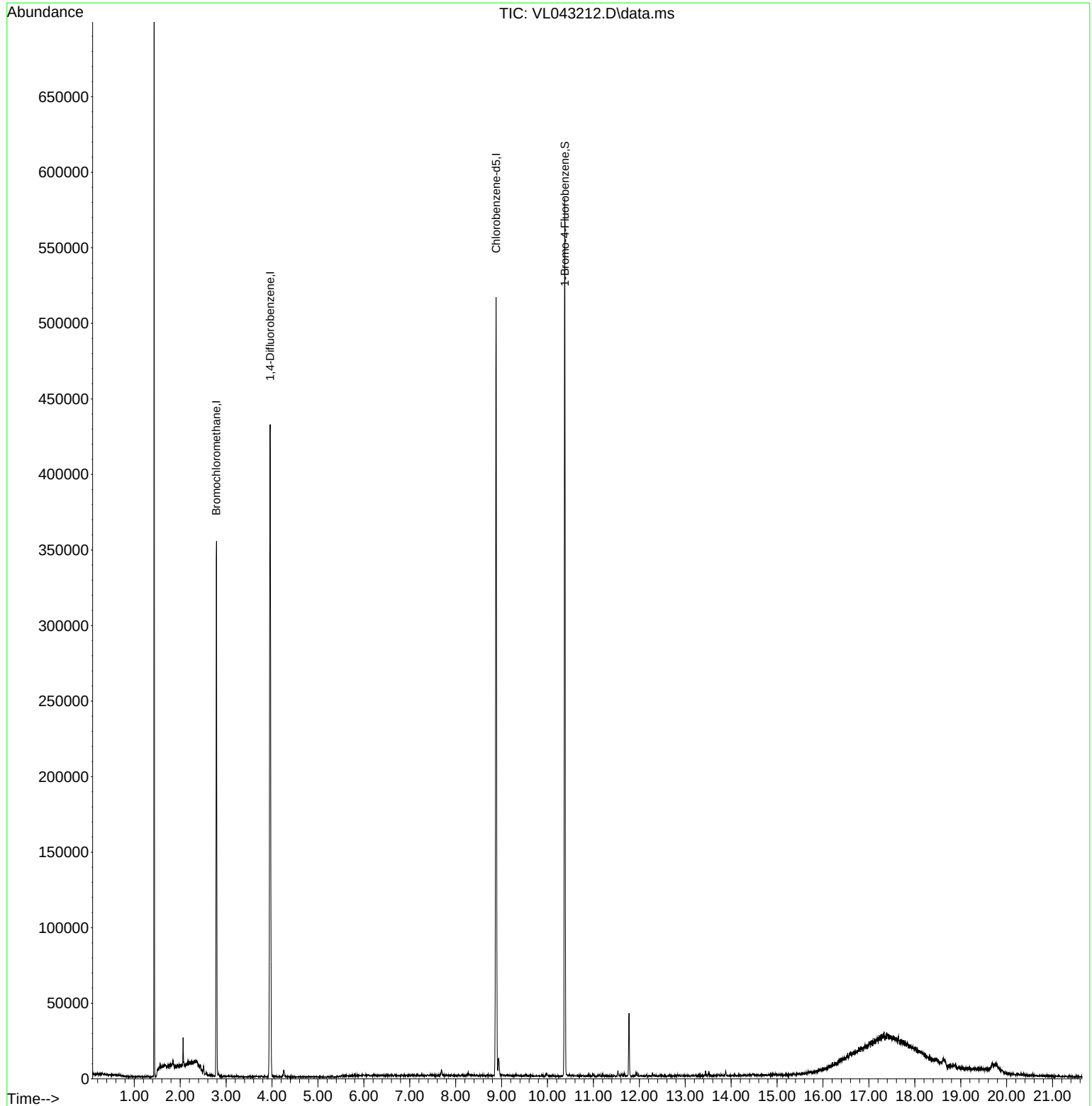
Target Compounds	Qvalue

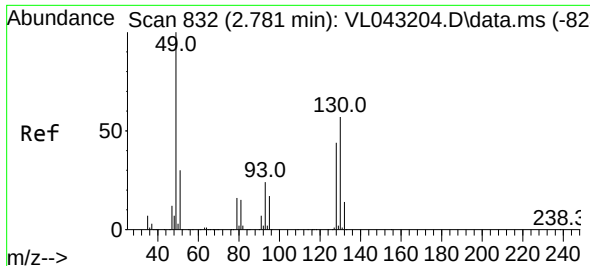
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111825\
Data File : VL043212.D
Acq On : 18 Nov 2025 14:41
Operator : SY/MD
Sample : VL1118ABL01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VL1118ABL01

Quant Time: Nov 19 01:34:47 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Wed Nov 19 01:11:25 2025
Response via : Initial Calibration

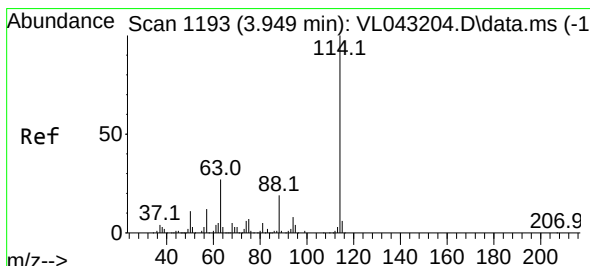
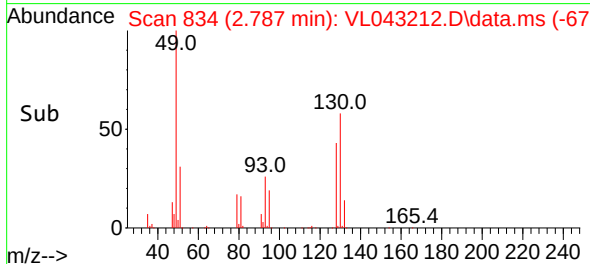
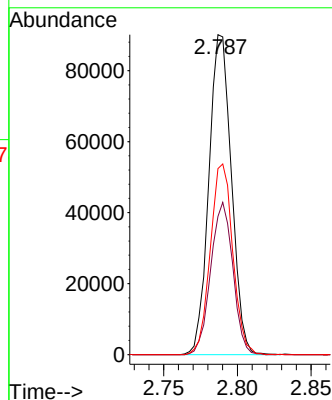
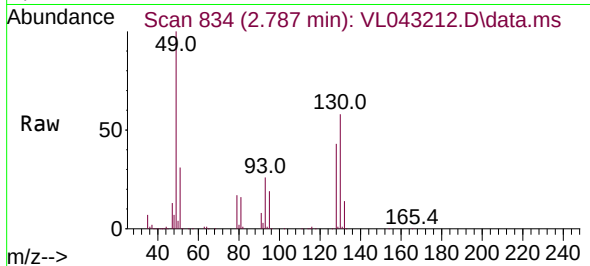




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 832
Delta R.T. 0.006 min
Lab File: VL043212.D
Acq: 18 Nov 2025 14:41

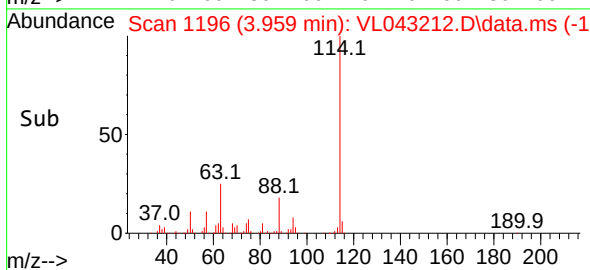
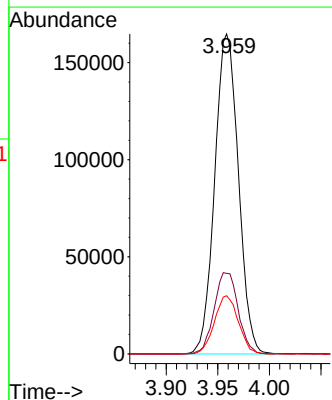
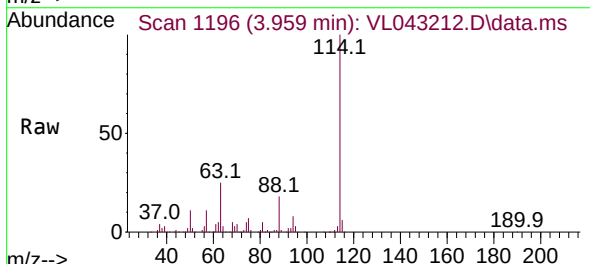
Instrument :
MSVOA_1
ClientSampleId :
VL1118ABL01

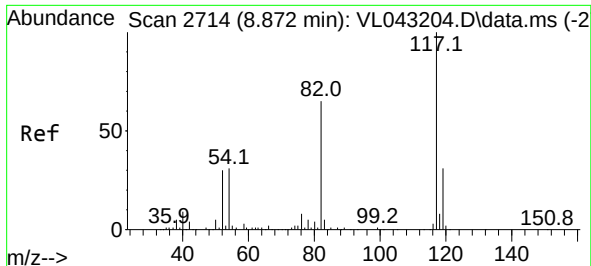
Tgt Ion: 49 Resp: 95971
Ion Ratio Lower Upper
49 100
128 46.6 23.0 69.0
130 59.3 29.9 89.7



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.959 min Scan# 1196
Delta R.T. 0.009 min
Lab File: VL043212.D
Acq: 18 Nov 2025 14:41

Tgt Ion: 114 Resp: 262557
Ion Ratio Lower Upper
114 100
63 25.8 21.0 31.6
88 18.3 14.9 22.3

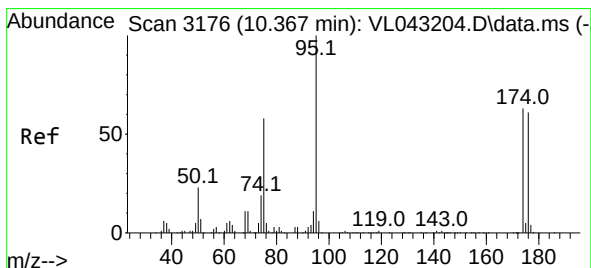
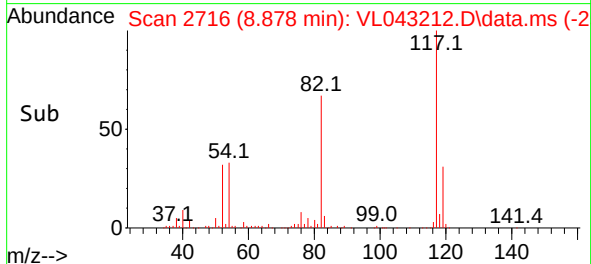
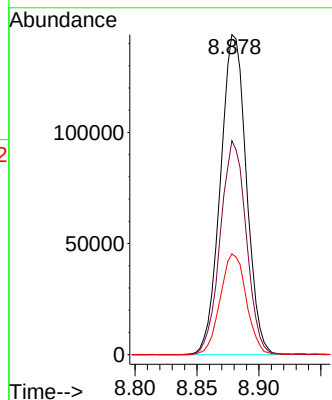
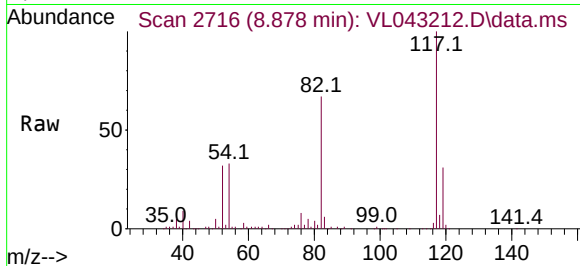




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.878 min Scan# 21
Delta R.T. 0.006 min
Lab File: VL043212.D
Acq: 18 Nov 2025 14:41

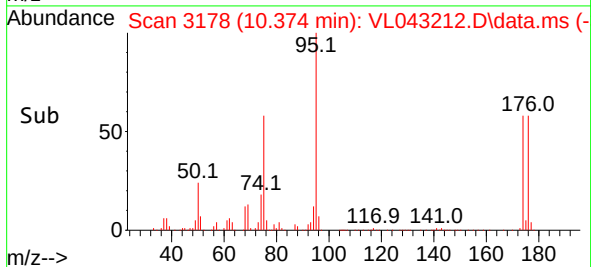
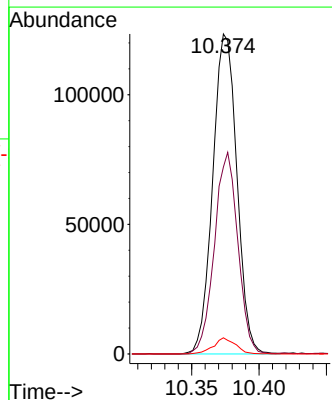
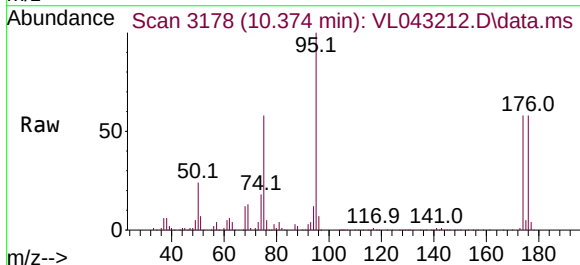
Instrument :
MSVOA_1
ClientSampleId :
VL1118ABL01

Tgt Ion:117 Resp: 209184
Ion Ratio Lower Upper
117 100
82 67.0 56.1 84.1
119 31.7 25.0 37.6



#68
1-Bromo-4-Fluorobenzene
Concen: 10.032 ppbv
RT: 10.374 min Scan# 3178
Delta R.T. 0.006 min
Lab File: VL043212.D
Acq: 18 Nov 2025 14:41

Tgt Ion: 95 Resp: 153824
Ion Ratio Lower Upper
95 100
174 61.2 50.2 75.2
175 4.6 4.1 6.1



Report of Analysis

Client: GFE LLC
Project: 316 TO 326 WESTBURY AVE
Client Sample ID: VL1118ABS01
Lab Sample ID: VL1118ABS01
Analytical Method: TO-15
Sample Wt/Vol: 400 mL

Date Collected:
Date Received:
SDG No.: Q3651
Matrix: Air
Test: VOCMS Group2

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qua.	DF	MDL ug/m3	LOQ / CRQL ug/m3	Date Ana.	BatchID
TARGETS									
75-01-4	Vinyl Chloride	8.30	21.2		1	0.080	0.080	11/18/25 15:24	VL111825
142-82-5	Heptane	8.50	34.8		1	0.70	2.05	11/18/25 15:24	VL111825
75-34-3	1,1-Dichloroethane	9.60	38.9		1	0.53	2.02	11/18/25 15:24	VL111825
110-82-7	Cyclohexane	9.10	31.3		1	0.76	1.72	11/18/25 15:24	VL111825
156-59-2	cis-1,2-Dichloroethene	9.40	37.3		1	0.40	1.98	11/18/25 15:24	VL111825
71-55-6	1,1,1-Trichloroethane	9.60	52.4		1	0.11	0.16	11/18/25 15:24	VL111825
540-84-1	2,2,4-Trimethylpentane	9.20	43.0		1	0.65	2.34	11/18/25 15:24	VL111825
71-43-2	Benzene	9.40	30.0		1	0.26	1.60	11/18/25 15:24	VL111825
79-01-6	Trichloroethene	9.20	49.4		1	0.11	0.16	11/18/25 15:24	VL111825
108-88-3	Toluene	9.20	34.7		1	0.60	1.88	11/18/25 15:24	VL111825
127-18-4	Tetrachloroethene	8.90	60.4		1	0.14	0.20	11/18/25 15:24	VL111825
100-41-4	Ethyl Benzene	9.50	41.3		1	0.83	2.17	11/18/25 15:24	VL111825
179601-23-1	m/p-Xylene	18.8	81.7		1	1.78	4.34	11/18/25 15:24	VL111825
95-47-6	o-Xylene	9.30	40.4		1	0.91	2.17	11/18/25 15:24	VL111825
108-67-8	1,3,5-Trimethylbenzene	9.40	46.2		1	0.88	2.46	11/18/25 15:24	VL111825
95-63-6	1,2,4-Trimethylbenzene	9.20	45.2		1	0.88	2.46	11/18/25 15:24	VL111825
91-20-3	Naphthalene	9.80	51.4		1	0.050	0.52	11/18/25 15:24	VL111825
110-54-3	Hexane	9.00	31.7		1	0.56	1.76	11/18/25 15:24	VL111825

SURROGATES

460-00-4	1-Bromo-4-Fluorobenzene	10.3		65 - 135	103%	SPK: 10
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INTERNAL STANDARDS

	Area Count	
74-97-5	Bromochloromethane	95400
540-36-3	1,4-Difluorobenzene	253000
3114-55-4	Chlorobenzene-d5	205000

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\VL111825\
 Data File : VL043213.D
 Acq On : 18 Nov 2025 15:24
 Operator : SY/MD
 Sample : VL1118ABS01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1118ABS01

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 11/19/2025
 Supervised By :Mahesh Dadoda 11/19/2025

Quant Time: Nov 19 01:35:08 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M

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

QLast Update : Wed Nov 19 01:11:25 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.784	49	95420	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.949	114	253448	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.872	117	205104	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.370 95 155032 10.312 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 103.100%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.499	85	130627	9.706	ppbv	99
3) Chlorodifluoromethane	1.476	51	117391	8.869	ppbv	97
4) Chloromethane	1.531	50	46147	9.171	ppbv	95
5) Vinyl Chloride	1.580	62	45865	8.335	ppbv	94
6) Bromomethane	1.667	94	24323	9.118	ppbv	98
7) Chloroethane	1.703	64	19180	8.949	ppbv	89
8) Dichlorotetrafluoroethane	1.554	85	106499	9.513	ppbv	96
9) Propene	1.483	41	51535	9.169	ppbv #	1
10) Heptane	4.969	43	142059	8.493	ppbv	100
11) Trichlorofluoromethane	1.878	101	128646	9.866	ppbv	99
12) 1,1,2-Trichlorotrifluo...	2.136	101	98007	9.627	ppbv	100
13) Ethanol	1.719	45	17446	8.827	ppbv	100
14) Bromoethene	1.780	108	34562	8.856	ppbv	98
15) Acetone	1.832	43	104416	7.876	ppbv	98
16) 1,3-Butadiene	1.609	39	52150	8.824	ppbv	100
17) tert-Butyl alcohol	2.036	59	171044	9.829	ppbv	99
18) 1,1-Dichloroethene	2.033	96	43555	9.189	ppbv	96
19) Isopropyl Alcohol	1.884	45	70667	9.433	ppbv	97
20) Methylene Chloride	2.059	84	38990	9.980	ppbv	99
21) Allyl Chloride	2.094	41	81713	9.161	ppbv	95
22) trans-1,2-Dichloroethene	2.337	96	48371	8.928	ppbv	95
23) Vinyl Acetate	2.457	43	153810	9.610	ppbv	99
24) 1,1-Dichloroethane	2.405	63	100265	9.588	ppbv	97
25) Ethyl Acetate	2.829	43	256501	8.971	ppbv	99
26) Hexane	2.823	57	113070	9.020	ppbv	98
27) Carbon Disulfide	2.149	76	123045	9.614	ppbv	97
28) Methyl tert-Butyl Ether	2.434	73	62777	10.202	ppbv	99
29) Chloroform	2.845	83	174043	9.768	ppbv	96
30) Cyclohexane	3.852	84	96123	9.146	ppbv	97
31) cis-1,2-Dichloroethene	2.716	61	117110	9.399	ppbv	98
32) 1,1,1-Trichloroethane	3.363	97	181566	9.560	ppbv	98
34) 2-Butanone	2.551	43	165780	9.266	ppbv	98
35) Carbon Tetrachloride	3.758	117	183287	9.527	ppbv	97
36) Benzene	3.651	78	228070	9.396	ppbv	99
37) 1,2-Dichloroethane	3.214	62	142060	10.006	ppbv	98
38) Trichloroethene	4.538	130	87145	9.177	ppbv	93
39) 1,2-Dichloropropane	4.302	63	82832	9.324	ppbv	99
40) 1,4-Dioxane	4.567	88	37417	9.370	ppbv #	94
41) Tetrahydrofuran	3.046	42	90689	9.179	ppbv	99
42) Bromodichloromethane	4.480	83	189395	9.670	ppbv	98
43) Methyl Methacrylate	4.865	69	115470	8.963	ppbv	99
44) 2,2,4-Trimethylpentane	4.632	57	385107	9.238	ppbv	99
45) t-1,3-Dichloropropene	6.399	75	112967	9.406	ppbv	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111825\
 Data File : VL043213.D
 Acq On : 18 Nov 2025 15:24
 Operator : SY/MD
 Sample : VL1118ABS01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1118ABS01

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 11/19/2025
 Supervised By :Mahesh Dadoda 11/19/2025

Quant Time: Nov 19 01:35:08 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M

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

QLast Update : Wed Nov 19 01:11:25 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.587	75	130518	9.255	ppbv	99
47) 1,1,2-Trichloroethane	6.567	97	88389	9.375	ppbv	96
48) Dibromochloromethane	7.377	129	154832	9.552	ppbv	99
49) Bromoform	9.474	173	134624	9.377	ppbv	99
50) 4-Methyl-2-Pentanone	5.732	43	227676	9.034	ppbv	100
51) 2-Hexanone	7.425	43	178681	9.130	ppbv #	100
52) Tetrachloroethene	8.218	164	80037	8.865	ppbv	96
53) Toluene	6.923	91	264384	9.199	ppbv	99
54) 1,2-Dibromoethane	7.645	107	132155	9.526	ppbv	98
56) 1,1,1,2-Tetrachloroethane	8.917	131	142171	9.432	ppbv	98
57) Chlorobenzene	8.914	112	200166	9.505	ppbv	98
58) Ethyl Benzene	9.348	91	375021	9.500	ppbv	99
59) m/p-Xylene	9.545	91	595409m	18.812	ppbv	
60) o-Xylene	9.956	91	293838	9.293	ppbv	99
61) Styrene	9.862	104	131154	9.478	ppbv	99
62) Isopropylbenzene	10.532	105	532270	9.410	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.956	83	185351	9.213	ppbv	99
64) n-propylbenzene	10.982	120	134605	9.261	ppbv	96
65) tert-Butylbenzene	11.526	119	458253	9.071	ppbv	98
66) Benzyl Chloride	11.610	91	43604	8.505	ppbv	98
67) sec-Butylbenzene	11.762	105	643089	9.120	ppbv	100
69) p-Isopropyltoluene	11.921	119	546654	9.151	ppbv	99
70) n-Butylbenzene	12.277	91	547505	9.448	ppbv	100
71) 2-Chlorotoluene	10.895	91	410121	9.432	ppbv	99
72) 4-Ethyltoluene	11.118	105	361508	9.389	ppbv	99
73) 1,3,5-Trimethylbenzene	11.199	105	302506	9.362	ppbv	94
74) 1,2,4-Trimethylbenzene	11.532	105	325533	9.232	ppbv	92
75) 1,3-Dichlorobenzene	11.604	146	190669	9.266	ppbv	98
76) 1,4-Dichlorobenzene	11.668	146	189947	9.229	ppbv	99
77) 1,2-Dichlorobenzene	11.940	146	178522	9.023	ppbv	99
78) Hexachloro-1,3-Butadiene	13.876	225	139303	8.437	ppbv	99
79) Naphthalene	13.507	128	307459	9.817	ppbv	100
80) Naphthalene,2-methyl-	14.452	142	78304	9.525	ppbv	98
81) 1,2,4-Trichlorobenzene	13.436	180	137086	9.787	ppbv	98

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

Manual Integration Report

Sequence:	VL11825	Instrument	MSVOA_I
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Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC0.5	VL043203.D	1,1,1,2-Tetrachloroethane	sam	11/19/2025 8:29:16 AM	MMDadoda	11/19/2025 9:42:12 AM	Peak Integrated by Software
VSTDICC0.5	VL043203.D	1,1,2-Trichloroethane	sam	11/19/2025 8:29:16 AM	MMDadoda	11/19/2025 9:42:12 AM	Peak Integrated by Software
VSTDICC0.5	VL043203.D	1,4-Dioxane	sam	11/19/2025 8:29:16 AM	MMDadoda	11/19/2025 9:42:12 AM	Peak Integrated by Software
VSTDICC0.5	VL043203.D	cis-1,3-Dichloropropene	sam	11/19/2025 8:29:16 AM	MMDadoda	11/19/2025 9:42:12 AM	Peak Integrated by Software
VSTDICC0.5	VL043203.D	Ethyl Acetate	sam	11/19/2025 8:29:16 AM	MMDadoda	11/19/2025 9:42:12 AM	Peak Integrated by Software
VSTDICC0.5	VL043203.D	Heptane	sam	11/19/2025 8:29:16 AM	MMDadoda	11/19/2025 9:42:12 AM	Peak Integrated by Software
VSTDICC0.5	VL043203.D	m/p-Xylene	sam	11/19/2025 8:29:16 AM	MMDadoda	11/19/2025 9:42:12 AM	Peak Integrated by Software
VSTDICC0.5	VL043203.D	Methyl Methacrylate	sam	11/19/2025 8:29:16 AM	MMDadoda	11/19/2025 9:42:12 AM	Peak Integrated by Software
VSTDICC0.5	VL043203.D	Toluene	sam	11/19/2025 8:29:16 AM	MMDadoda	11/19/2025 9:42:12 AM	Peak Integrated by Software
VSTDICCC010	VL043204.D	m/p-Xylene	sam	11/19/2025 8:29:20 AM	MMDadoda	11/19/2025 9:42:15 AM	Peak Integrated by Software
VSTDICC002	VL043205.D	1,1,2-Trichloroethane	sam	11/19/2025 8:30:50 AM	MMDadoda	11/19/2025 9:42:20 AM	Peak Integrated by Software
VSTDICC002	VL043205.D	1,4-Dioxane	sam	11/19/2025 8:30:50 AM	MMDadoda	11/19/2025 9:42:20 AM	Peak Integrated by Software
VSTDICC002	VL043205.D	Benzene	sam	11/19/2025 8:30:50 AM	MMDadoda	11/19/2025 9:42:20 AM	Peak Integrated by Software

Manual Integration Report

Sequence:	VL11825	Instrument	MSVOA_I
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Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC002	VL043205.D	Dibromochloromethane	sam	11/19/2025 8:30:50 AM	MMDadoda	11/19/2025 9:42:20 AM	Peak Integrated by Software
VSTDICC002	VL043205.D	Heptane	sam	11/19/2025 8:30:50 AM	MMDadoda	11/19/2025 9:42:20 AM	Peak Integrated by Software
VSTDICC002	VL043205.D	m/p-Xylene	sam	11/19/2025 8:30:50 AM	MMDadoda	11/19/2025 9:42:20 AM	Peak Integrated by Software
VSTDICC002	VL043205.D	t-1,3-Dichloropropene	sam	11/19/2025 8:30:50 AM	MMDadoda	11/19/2025 9:42:20 AM	Peak Integrated by Software
VSTDICC002	VL043205.D	Trichloroethene	sam	11/19/2025 8:30:50 AM	MMDadoda	11/19/2025 9:42:20 AM	Peak Integrated by Software
VSTDICC001	VL043206.D	1,4-Dioxane	sam	11/19/2025 8:31:27 AM	MMDadoda	11/19/2025 9:42:23 AM	Peak Integrated by Software
VSTDICC001	VL043206.D	2,2,4-Trimethylpentane	sam	11/19/2025 8:31:27 AM	MMDadoda	11/19/2025 9:42:23 AM	Peak Integrated by Software
VSTDICC001	VL043206.D	m/p-Xylene	sam	11/19/2025 8:31:27 AM	MMDadoda	11/19/2025 9:42:23 AM	Peak Integrated by Software
VSTDICC001	VL043206.D	t-1,3-Dichloropropene	sam	11/19/2025 8:31:27 AM	MMDadoda	11/19/2025 9:42:23 AM	Peak Integrated by Software
VSTDICC001	VL043206.D	Trichloroethene	sam	11/19/2025 8:31:27 AM	MMDadoda	11/19/2025 9:42:23 AM	Peak Integrated by Software
VSTDICC0.1	VL043208.D	1,1,1-Trichloroethane	sam	11/19/2025 8:31:38 AM	MMDadoda	11/19/2025 9:42:32 AM	Peak Integrated by Software
VSTDICC0.1	VL043208.D	1,1,2,2-Tetrachloroethane	sam	11/19/2025 8:31:38 AM	MMDadoda	11/19/2025 9:42:32 AM	Peak Integrated by Software
VSTDICC0.1	VL043208.D	1,2-Dibromoethane	sam	11/19/2025 8:31:38 AM	MMDadoda	11/19/2025 9:42:32 AM	Peak Integrated by Software

Manual Integration Report

Sequence:	VL11825	Instrument	MSVOA_I
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Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC0.1	VL043208.D	Carbon Tetrachloride	sam	11/19/2025 8:31:38 AM	MMDadoda	11/19/2025 9:42:32 AM	Peak Integrated by Software
VSTDICC0.1	VL043208.D	Naphthalene	sam	11/19/2025 8:31:38 AM	MMDadoda	11/19/2025 9:42:32 AM	Peak Integrated by Software
VSTDICC0.1	VL043208.D	Tetrachloroethene	sam	11/19/2025 8:31:38 AM	MMDadoda	11/19/2025 9:42:32 AM	Peak Integrated by Software
VSTDICC0.1	VL043208.D	Trichloroethene	sam	11/19/2025 8:31:38 AM	MMDadoda	11/19/2025 9:42:32 AM	Peak Integrated by Software
VSTDICC0.03	VL043209.D	1,1,1-Trichloroethane	sam	11/19/2025 8:31:44 AM	MMDadoda	11/19/2025 9:42:35 AM	Peak Integrated by Software
VSTDICC0.03	VL043209.D	1,1,2,2-Tetrachloroethane	sam	11/19/2025 8:31:44 AM	MMDadoda	11/19/2025 9:42:35 AM	Peak Integrated by Software
VSTDICC0.03	VL043209.D	Carbon Tetrachloride	sam	11/19/2025 8:31:44 AM	MMDadoda	11/19/2025 9:42:35 AM	Peak Integrated by Software
VSTDICC0.03	VL043209.D	Tetrachloroethene	sam	11/19/2025 8:31:44 AM	MMDadoda	11/19/2025 9:42:35 AM	Peak Integrated by Software
VSTDICC0.03	VL043209.D	Trichloroethene	sam	11/19/2025 8:31:44 AM	MMDadoda	11/19/2025 9:42:35 AM	Peak Integrated by Software
VSTDICC0.03	VL043209.D	Vinyl Chloride	sam	11/19/2025 8:31:44 AM	MMDadoda	11/19/2025 9:42:35 AM	Peak Integrated by Software
VSTDICC015	VL043210.D	m/p-Xylene	sam	11/19/2025 8:32:26 AM	MMDadoda	11/19/2025 9:42:39 AM	Peak Integrated by Software
VSTDICC015	VL043210.D	Propene	sam	11/19/2025 8:32:26 AM	MMDadoda	11/19/2025 9:42:39 AM	Peak Integrated by Software
VSTDICV010	VL043211.D	m/p-Xylene	sam	11/19/2025 8:31:49 AM	MMDadoda	11/19/2025 9:43:04 AM	Peak Integrated by Software

Manual Integration Report

Sequence:	VL11825	Instrument	MSVOA_I
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Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICV010	VL043211.D	Propene	sam	11/19/2025 8:31:49 AM	MMDadoda	11/19/2025 9:43:04 AM	Peak Integrated by Software
VL118ABS01	VL043213.D	m/p-Xylene	sam	11/19/2025 8:29:29 AM	MMDadoda	11/19/2025 9:43:08 AM	Peak Integrated by Software
Q3651-03	VL043214.D	2-Butanone	sam	11/19/2025 8:30:08 AM	MMDadoda	11/19/2025 9:43:12 AM	Peak Integrated by Software
Q3651-03	VL043214.D	Carbon Tetrachloride	sam	11/19/2025 8:30:08 AM	MMDadoda	11/19/2025 9:43:12 AM	Peak Integrated by Software
Q3651-03	VL043214.D	Chlorodifluoromethane	sam	11/19/2025 8:30:08 AM	MMDadoda	11/19/2025 9:43:12 AM	Peak Integrated by Software
Q3651-03	VL043214.D	Cyclohexane	sam	11/19/2025 8:30:08 AM	MMDadoda	11/19/2025 9:43:12 AM	Peak Integrated by Software
Q3651-03	VL043214.D	Heptane	sam	11/19/2025 8:30:08 AM	MMDadoda	11/19/2025 9:43:12 AM	Peak Integrated by Software
Q3651-03	VL043214.D	Methylene Chloride	sam	11/19/2025 8:30:08 AM	MMDadoda	11/19/2025 9:43:12 AM	Peak Integrated by Software
Q3651-03	VL043214.D	Tetrachloroethene	sam	11/19/2025 8:30:08 AM	MMDadoda	11/19/2025 9:43:12 AM	Peak Integrated by Software
Q3651-03DUP	VL043215.D	2-Butanone	sam	11/19/2025 8:31:54 AM	MMDadoda	11/19/2025 9:43:16 AM	Peak Integrated by Software
Q3651-03DUP	VL043215.D	Carbon Tetrachloride	sam	11/19/2025 8:31:54 AM	MMDadoda	11/19/2025 9:43:16 AM	Peak Integrated by Software
Q3651-03DUP	VL043215.D	Chlorodifluoromethane	sam	11/19/2025 8:31:54 AM	MMDadoda	11/19/2025 9:43:16 AM	Peak Integrated by Software
Q3651-03DUP	VL043215.D	Chloroform	sam	11/19/2025 8:31:54 AM	MMDadoda	11/19/2025 9:43:16 AM	Peak Integrated by Software

Manual Integration Report

Sequence:	VL11825	Instrument	MSVOA_I
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Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
Q3651-03DUP	VL043215.D	Cyclohexane	sam	11/19/2025 8:31:54 AM	MMDadoda	11/19/2025 9:43:16 AM	Peak Integrated by Software
Q3651-03DUP	VL043215.D	Heptane	sam	11/19/2025 8:31:54 AM	MMDadoda	11/19/2025 9:43:16 AM	Peak Integrated by Software
Q3651-03DUP	VL043215.D	m/p-Xylene	sam	11/19/2025 8:31:54 AM	MMDadoda	11/19/2025 9:43:16 AM	Peak Integrated by Software
Q3651-03DUP	VL043215.D	Methylene Chloride	sam	11/19/2025 8:31:54 AM	MMDadoda	11/19/2025 9:43:16 AM	Peak Integrated by Software
Q3651-03DUP	VL043215.D	Tetrachloroethene	sam	11/19/2025 8:31:54 AM	MMDadoda	11/19/2025 9:43:16 AM	Peak Integrated by Software
Q3651-04	VL043216.D	4-Methyl-2-Pentanone	sam	11/19/2025 8:30:01 AM	MMDadoda	11/19/2025 9:43:19 AM	Peak Integrated by Software
Q3651-04	VL043216.D	Benzene	sam	11/19/2025 8:30:01 AM	MMDadoda	11/19/2025 9:43:19 AM	Peak Integrated by Software
Q3651-04	VL043216.D	Carbon Tetrachloride	sam	11/19/2025 8:30:01 AM	MMDadoda	11/19/2025 9:43:19 AM	Peak Integrated by Software
Q3651-04	VL043216.D	Chlorodifluoromethane	sam	11/19/2025 8:30:01 AM	MMDadoda	11/19/2025 9:43:19 AM	Peak Integrated by Software
Q3651-04	VL043216.D	Heptane	sam	11/19/2025 8:30:01 AM	MMDadoda	11/19/2025 9:43:19 AM	Peak Integrated by Software
Q3651-04	VL043216.D	Styrene	sam	11/19/2025 8:30:01 AM	MMDadoda	11/19/2025 9:43:19 AM	Peak Integrated by Software
Q3651-04	VL043216.D	Tetrachloroethene	sam	11/19/2025 8:30:01 AM	MMDadoda	11/19/2025 9:43:19 AM	Peak Integrated by Software
Q3651-06	VL043217.D	4-Methyl-2-Pentanone	sam	11/19/2025 8:29:34 AM	MMDadoda	11/19/2025 9:43:22 AM	Peak Integrated by Software

Manual Integration Report

Sequence:	VL11825	Instrument	MSVOA_I
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Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
Q3651-06	VL043217.D	Carbon Tetrachloride	sam	11/19/2025 8:29:34 AM	MMDadoda	11/19/2025 9:43:22 AM	Peak Integrated by Software
Q3651-06	VL043217.D	Chlorodifluoromethane	sam	11/19/2025 8:29:34 AM	MMDadoda	11/19/2025 9:43:22 AM	Peak Integrated by Software
Q3651-06	VL043217.D	Cyclohexane	sam	11/19/2025 8:29:34 AM	MMDadoda	11/19/2025 9:43:22 AM	Peak Integrated by Software
Q3651-06	VL043217.D	Heptane	sam	11/19/2025 8:29:34 AM	MMDadoda	11/19/2025 9:43:22 AM	Peak Integrated by Software
Q3651-06	VL043217.D	m/p-Xylene	sam	11/19/2025 8:29:34 AM	MMDadoda	11/19/2025 9:43:22 AM	Peak Integrated by Software
Q3651-01	VL043222.D	1,4-Dioxane	sam	11/19/2025 8:30:33 AM	MMDadoda	11/19/2025 9:43:40 AM	Peak Integrated by Software
Q3651-01	VL043222.D	Heptane	sam	11/19/2025 8:30:33 AM	MMDadoda	11/19/2025 9:43:40 AM	Peak Integrated by Software
Q3651-01	VL043222.D	tert-Butyl alcohol	sam	11/19/2025 8:30:33 AM	MMDadoda	11/19/2025 9:43:40 AM	Peak Integrated by Software
Q3651-01	VL043222.D	Tetrachloroethene	sam	11/19/2025 8:30:33 AM	MMDadoda	11/19/2025 9:43:40 AM	Peak Integrated by Software
Q3651-01	VL043222.D	Tetrahydrofuran	sam	11/19/2025 8:30:33 AM	MMDadoda	11/19/2025 9:43:40 AM	Peak Integrated by Software
Q3651-02	VL043223.D	1,1,1-Trichloroethane	sam	11/19/2025 8:32:43 AM	MMDadoda	11/19/2025 9:43:46 AM	Peak Integrated by Software
Q3651-02	VL043223.D	2,2,4-Trimethylpentane	sam	11/19/2025 8:32:43 AM	MMDadoda	11/19/2025 9:43:46 AM	Peak Integrated by Software
Q3651-02	VL043223.D	2-Hexanone	sam	11/19/2025 8:32:43 AM	MMDadoda	11/19/2025 9:43:46 AM	Peak Integrated by Software

Manual Integration Report

Sequence:	VL11825	Instrument	MSVOA_I
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Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
Q3651-02	VL043223.D	Benzene	sam	11/19/2025 8:32:43 AM	MMDadoda	11/19/2025 9:43:46 AM	Peak Integrated by Software
Q3651-02	VL043223.D	Heptane	sam	11/19/2025 8:32:43 AM	MMDadoda	11/19/2025 9:43:46 AM	Peak Integrated by Software
Q3651-02	VL043223.D	tert-Butyl alcohol	sam	11/19/2025 8:32:43 AM	MMDadoda	11/19/2025 9:43:46 AM	Peak Integrated by Software
Q3651-02	VL043223.D	Tetrachloroethene	sam	11/19/2025 8:32:43 AM	MMDadoda	11/19/2025 9:43:46 AM	Peak Integrated by Software
Q3651-05	VL043224.D	2-Hexanone	sam	11/19/2025 8:30:37 AM	MMDadoda	11/19/2025 9:43:50 AM	Peak Integrated by Software
Q3651-05	VL043224.D	4-Methyl-2-Pentanone	sam	11/19/2025 8:30:37 AM	MMDadoda	11/19/2025 9:43:50 AM	Peak Integrated by Software
Q3651-05	VL043224.D	Heptane	sam	11/19/2025 8:30:37 AM	MMDadoda	11/19/2025 9:43:50 AM	Peak Integrated by Software
Q3651-05	VL043224.D	Tetrachloroethene	sam	11/19/2025 8:30:37 AM	MMDadoda	11/19/2025 9:43:50 AM	Peak Integrated by Software
Q3651-05	VL043224.D	Toluene	sam	11/19/2025 8:30:37 AM	MMDadoda	11/19/2025 9:43:50 AM	Peak Integrated by Software
Q3651-03DL	VL043227.D	m/p-Xylene	sam	11/19/2025 8:32:00 AM	MMDadoda	11/19/2025 9:44:03 AM	Peak Integrated by Software
Q3651-04DL	VL043229.D	2,2,4-Trimethylpentane	sam	11/19/2025 8:29:48 AM	MMDadoda	11/19/2025 9:44:11 AM	Peak Integrated by Software
Q3651-04DL	VL043229.D	Cyclohexane	sam	11/19/2025 8:29:48 AM	MMDadoda	11/19/2025 9:44:11 AM	Peak Integrated by Software
Q3651-04DL	VL043229.D	Ethanol	sam	11/19/2025 8:29:48 AM	MMDadoda	11/19/2025 9:44:11 AM	Peak Integrated by Software

Manual Integration Report

Sequence:	VL111825	Instrument	MSVOA_I
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Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
Q3651-04DL	VL043229.D	Heptane	sam	11/19/2025 8:29:48 AM	MMDadoda	11/19/2025 9:44:11 AM	Peak Integrated by Software
Q3651-04DL	VL043229.D	m/p-Xylene	sam	11/19/2025 8:29:48 AM	MMDadoda	11/19/2025 9:44:11 AM	Peak Integrated by Software
Q3651-04DL	VL043229.D	Toluene	sam	11/19/2025 8:29:48 AM	MMDadoda	11/19/2025 9:44:11 AM	Peak Integrated by Software
Q3651-06DL	VL043230.D	Heptane	sam	11/19/2025 8:29:43 AM	MMDadoda	11/19/2025 9:44:16 AM	Peak Integrated by Software
Q3651-06DL	VL043230.D	m/p-Xylene	sam	11/19/2025 8:29:43 AM	MMDadoda	11/19/2025 9:44:16 AM	Peak Integrated by Software

Instrument ID: **MSVOA_L**

Daily Analysis Runlog For Sequence/QC Batch ID # VL111825

Review By	Semsettin Yesilyurt	Review On	11/19/2025 8:33:42 AM
Supervise By	Maresh Dadoda	Supervise On	11/19/2025 9:44:32 AM
SubDirectory	VL111825	HP Acquire Method	TO15AIR
		HP Processing Method	VL111825AIR.M
STD. NAME	STD REF.#		
Tune/Reschk	AP2691		
Initial Calibration Stds	AP2694,AP2695,AP2696		
CCC	AP2694		
Internal Standard/PEM	AP2691		
ICV/I.BLK	AP2697		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VL043202.D	18 Nov 2025 08:46	SY/MD	Ok
2	VSTDIC0.5	VL043203.D	18 Nov 2025 09:29	SY/MD	Ok,M
3	VSTDICCC010	VL043204.D	18 Nov 2025 10:02	SY/MD	Ok,M
4	VSTDIC002	VL043205.D	18 Nov 2025 10:37	SY/MD	Ok,M
5	VSTDIC001	VL043206.D	18 Nov 2025 11:10	SY/MD	Ok,M
6	VSTDIC0.5	VL043207.D	18 Nov 2025 11:43	SY/MD	Not Ok
7	VSTDIC0.1	VL043208.D	18 Nov 2025 12:16	SY/MD	Ok,M
8	VSTDIC0.03	VL043209.D	18 Nov 2025 12:49	SY/MD	Ok,M
9	VSTDIC015	VL043210.D	18 Nov 2025 13:24	SY/MD	Ok,M
10	VSTDICV010	VL043211.D	18 Nov 2025 13:56	SY/MD	Ok,M
11	VL1118ABL01	VL043212.D	18 Nov 2025 14:41	SY/MD	Ok
12	VL1118ABS01	VL043213.D	18 Nov 2025 15:24	SY/MD	Ok,M
13	Q3651-03	VL043214.D	18 Nov 2025 15:57	SY/MD	Dilution
14	Q3651-03DUP	VL043215.D	18 Nov 2025 16:31	SY/MD	Ok,M
15	Q3651-04	VL043216.D	18 Nov 2025 17:06	SY/MD	Dilution
16	Q3651-06	VL043217.D	18 Nov 2025 17:40	SY/MD	Dilution
17	Q3650-03	VL043218.D	18 Nov 2025 18:15	SY/MD	Ok,M
18	Q3650-04	VL043219.D	18 Nov 2025 18:49	SY/MD	Ok,M
19	Q3650-05	VL043220.D	18 Nov 2025 19:23	SY/MD	Ok,M
20	Q3650-06	VL043221.D	18 Nov 2025 19:58	SY/MD	Ok,M
21	Q3651-01	VL043222.D	18 Nov 2025 20:29	SY/MD	Ok,M

Instrument ID: **MSVOA_L**

Daily Analysis Runlog For Sequence/QC Batch ID # VL111825

Review By	Semsettin Yesilyurt	Review On	11/19/2025 8:33:42 AM		
Supervise By	Maresh Dadoda	Supervise On	11/19/2025 9:44:32 AM		
SubDirectory	VL111825	HP Acquire Method	TO15AIR	HP Processing Method	VL111825AIR.M
STD. NAME		STD REF.#			
Tune/Reschk		AP2691			
Initial Calibration Stds		AP2694,AP2695,AP2696			
CCC		AP2694			
Internal Standard/PEM		AP2691			
ICV/I.BLK		AP2697			
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

22	Q3651-02	VL043223.D	18 Nov 2025 21:01	SY/MD	Ok,M
23	Q3651-05	VL043224.D	18 Nov 2025 21:33	SY/MD	Ok,M
24	Q3650-01	VL043225.D	18 Nov 2025 22:05	SY/MD	Ok,M
25	Q3650-02	VL043226.D	18 Nov 2025 22:37	SY/MD	Ok,M
26	Q3651-03DL	VL043227.D	18 Nov 2025 23:09	SY/MD	Ok,M
27	Q3651-03DL	VL043228.D	18 Nov 2025 23:41	SY/MD	Not Ok
28	Q3651-04DL	VL043229.D	19 Nov 2025 00:13	SY/MD	Ok,M
29	Q3651-06DL	VL043230.D	19 Nov 2025 00:44	SY/MD	Ok,M

M : Manual Integration

Instrument ID: MSVOA_L

Daily Analysis Runlog For Sequence/QC Batch ID # VL111825

Review By	Semsettin Yesilyurt	Review On	11/19/2025 8:33:42 AM
Supervise By	Maresh Dadoda	Supervise On	11/19/2025 9:44:32 AM
SubDirectory	VL111825	HP Acquire Method	TO15AIR
		HP Processing Method	VL111825AIR.M

STD. NAME	STD REF.#
Tune/Reschk	AP2691
Initial Calibration Stds	AP2694,AP2695,AP2696
CCC	AP2694
Internal Standard/PEM	AP2691
ICV/I.BLK	AP2697
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VL043202.D	18 Nov 2025 08:46		SY/MD	Ok
2	VSTDIC0.5	VSTDIC0.5	VL043203.D	18 Nov 2025 09:29		SY/MD	Ok,M
3	VSTDICCC010	VSTDICCC010	VL043204.D	18 Nov 2025 10:02	LR-20	SY/MD	Ok,M
4	VSTDIC002	VSTDIC002	VL043205.D	18 Nov 2025 10:37		SY/MD	Ok,M
5	VSTDIC001	VSTDIC001	VL043206.D	18 Nov 2025 11:10		SY/MD	Ok,M
6	VSTDIC0.5	VSTDIC0.5	VL043207.D	18 Nov 2025 11:43	Not used	SY/MD	Not Ok
7	VSTDIC0.1	VSTDIC0.1	VL043208.D	18 Nov 2025 12:16		SY/MD	Ok,M
8	VSTDIC0.03	VSTDIC0.03	VL043209.D	18 Nov 2025 12:49		SY/MD	Ok,M
9	VSTDIC015	VSTDIC015	VL043210.D	18 Nov 2025 13:24		SY/MD	Ok,M
10	VSTDICV010	ICVVL111825	VL043211.D	18 Nov 2025 13:56	ICV failed for com.#66	SY/MD	Ok,M
11	VL1118ABL01	VL1118ABL01	VL043212.D	18 Nov 2025 14:41		SY/MD	Ok
12	VL1118ABS01	VL1118ABS01	VL043213.D	18 Nov 2025 15:24		SY/MD	Ok,M
13	Q3651-03	IA1	VL043214.D	18 Nov 2025 15:57	Need 20X	SY/MD	Dilution
14	Q3651-03DUP	IA1DUP	VL043215.D	18 Nov 2025 16:31		SY/MD	Ok,M
15	Q3651-04	IA2	VL043216.D	18 Nov 2025 17:06	Need 10X	SY/MD	Dilution
16	Q3651-06	IA3	VL043217.D	18 Nov 2025 17:40	Need 10X	SY/MD	Dilution
17	Q3650-03	IA1	VL043218.D	18 Nov 2025 18:15		SY/MD	Ok,M
18	Q3650-04	IA2	VL043219.D	18 Nov 2025 18:49		SY/MD	Ok,M

Instrument ID: MSVOA_L

Daily Analysis Runlog For Sequence/QC Batch ID # VL111825

Review By	Semsettin Yesilyurt	Review On	11/19/2025 8:33:42 AM		
Supervise By	Mahesh Dadoda	Supervise On	11/19/2025 9:44:32 AM		
SubDirectory	VL111825	HP Acquire Method	TO15AIR	HP Processing Method	VL111825AIR.M
STD. NAME	STD REF.#				
Tune/Reschk	AP2691				
Initial Calibration Stds	AP2694,AP2695,AP2696				
CCC	AP2694				
Internal Standard/PEM	AP2691				
ICV/I.BLK	AP2697				
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

19	Q3650-05	IA3	VL043220.D	18 Nov 2025 19:23		SY/MD	Ok,M
20	Q3650-06	OA1	VL043221.D	18 Nov 2025 19:58		SY/MD	Ok,M
21	Q3651-01	SV1	VL043222.D	18 Nov 2025 20:29		SY/MD	Ok,M
22	Q3651-02	SV2	VL043223.D	18 Nov 2025 21:01		SY/MD	Ok,M
23	Q3651-05	SV3	VL043224.D	18 Nov 2025 21:33		SY/MD	Ok,M
24	Q3650-01	SV1	VL043225.D	18 Nov 2025 22:05		SY/MD	Ok,M
25	Q3650-02	SV2	VL043226.D	18 Nov 2025 22:37		SY/MD	Ok,M
26	Q3651-03DL	IA1DL	VL043227.D	18 Nov 2025 23:09		SY/MD	Ok,M
27	Q3651-03DL	IA1DL	VL043228.D	18 Nov 2025 23:41	Not Required	SY/MD	Not Ok
28	Q3651-04DL	IA2DL	VL043229.D	19 Nov 2025 00:13		SY/MD	Ok,M
29	Q3651-06DL	IA3DL	VL043230.D	19 Nov 2025 00:44		SY/MD	Ok,M

M : Manual Integration

B2511013 - 3

Client Contact Information		Bottle Order ID : B2511013		Courier : F. Gaudin		Analysis		Matrix																	
Client ID : GFEL01		Project ID : 74-16 Cresskill, Mountainside, NJ		Sampler Name(s) : Franck Gaudin		of		COCs																	
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 Hawatha		Site Details: 3160318 Westbury Ave Cresskill, NJ																							
State : NJ		Analysis Turnaround Time 5 DAY																							
Zip Code : 07034		Standard : 10 business days		Data Package Type : Results only																					
Country :		Rush (Specify): 5 Days		EDD Type : PDE																					
Sample Identification	Sample Date(s)	Time Start (24 hr Clock)	Time Stop (24 hr Clock)	Can in Field ("Hg) (Start)	Can 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									
SV2	11/15/25	9:13	11:33	0.05	0.05	6.0	1.00	-30	-3.9	10707	10606	6 L	50	VL043047.D	1	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																									
GC/MS Analyst Signature (TO-15) GC/MS Analyst Signature (TO-15)																									
** Submittal of this COC indicates approval of the analysis based on existing conditions. PERFORM ONLY THOSE ANALYSES THE ATTACHED LIST Please follow the instructions on the back of this COC.																									
Special Instructions/QC Requirements & Comments :																									
Suspected Contamination: High Medium Low Sampling site (State): Low PID Readings: 0.1																									
Quick Connector required : N/A																									
Canisters Shipped by: Sam		Date/Time: 11/19/25		Canisters Received by: Sam		Date/Time: 11/19/25		Date/Time: 11/19/25		Date/Time: 11/19/25		Date/Time: 11/19/25		Date/Time: 11/19/25		Date/Time: 11/19/25									
Samples Relinquished by: Sam		Date/Time: 11/19/25		Relinquished by: Sam		Date/Time: 11/19/25		Date/Time: 11/19/25		Date/Time: 11/19/25		Date/Time: 11/19/25		Date/Time: 11/19/25		Date/Time: 11/19/25									
Relinquished by: Sam																									

B2511013 - 5

B2511012 - 7

Client Contact Information		Bottle Order ID : B2511012		Courier : F. Galdun		Analysis		Matrix	
Client ID : GFEL01		Project ID : 7410		Sampler Name(s) : FRANK GILDUN		5 of 6		COCs	
Customer Name : GFE LLC		Project Manager : FRANK GILDUN		AIR ANALYSIS		CHAIN-OF-CUSTODY		Batch Certified	
Address : 58 Nokomis Ave		Phone Number : 646-542-3465		Fax Number : 973-334-1692		Site Details: 316318 WAREHOUSE AVE		CARRIAGE, NY	
City : Lake Hiawatha		Analysis Turnaround Time : 5 DAY		Standard : 10-business-days		OR		Rush (Specify): 5 Days	
State : NJ		Data Package Type : RESULTS ONLY		EDD Type : PDF					
Zip Code : 07034									
Country : 									

Sample Identification	Sample Date(s)	Time Start (24 hr Clock)	Time Stop (24 hr Clock)	Can Vacuum In ("Hg) (Start)	Can Vacuum In ("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
SN3	11/14/25	9:03	11:04	30	25	68	68	-30	-3.9	10648	10315	6 L	50
GC/MS Analyst Signature (TO-15) 348													
Pressure (Inches of Hg) Ambient Maximum Minimum Start Stop													
Special Instructions/QC Requirements & Comments : Suspected Contamination: High Medium Low Sampling site (State): NJ Quick Connector required : NJ Canisters Shipped by: SKM Samples Relinquished by: SKM Relinquished by: SKM													

** Submittal of this COC indicates approval of the analysis based on existing conditions. **REPORT ONLY THOSE ANALYSES ON THE ATTACHED UST**

Please follow the instructions on the back of this COC.

PID Readings: **0.2**

Date/Time: **11/14/25** Received by: **SKM**

Date/Time: **11/14/25** Received by: **SKM**

Date/Time: **11/14/25** Received by: **SKM**

B2511012 - 6

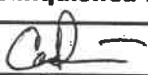
B2511012 - 5

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: <u>Chemtech</u>		Location: <u>284 Sheffield Street, Mountainside, NJ 7092</u>	
<u>NA66:</u>		Title: <u>Sample Custodian</u>	
Field Sample Seal No.: <u>Q3651</u>		Date Broken <u>11/14/2025</u> Military Time Seal Broken: <u>12:30:00</u>	
Case No.: <u>316 TO 326 WESTBURY AV</u>		Analytical Parameter/Fraction: <u>OCMS Group2</u>	

Sample No.	Aliquot/Extract No.	Sample No.	Aliquot/Extract No.
Q3651-01	SV1		
Q3651-02	SV2		
Q3651-03	IA1		
Q3651-04	IA2		
Q3651-05	SV3		
Q3651-06	IA3		

Date	Time	Relinquished By		Received By		Purpose of Change of Custody
11/17/25	10:05	Signature		Signature		
		Printed Name	Cassanova Peric	Printed Name	Sam Setti	
		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:

METHOD: TO-13

Pressure Gauge ID:

Document Control # A3041228

Process Report

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

Order ID : Q3651

Date	Bottle ID	Lab Sample Number	InComing Vacuum	Canister ID	Can Size	Reg ID	Reg Size	Batch Code	Certification ID
11/17/2025	B2511012	Q3651-04	-4.7	10320	6 L	10185		C2509003	VL043048.D Seq :VL100625 TUNE : VL043043.D ICAL : VL043037.D CCAL : VL043044.D MB : VL043045.D
11/17/2025	B2511012	Q3651-05	-3.9	10315	6 L	10648		C2509003	VL043048.D Seq :VL100625 TUNE : VL043043.D ICAL : VL043037.D CCAL : VL043044.D MB : VL043045.D
11/17/2025	B2511012	Q3651-06	-3.9	10280	6 L	10616		C2509003	VL043048.D Seq :VL100625 TUNE : VL043043.D ICAL : VL043037.D CCAL : VL043044.D MB : VL043045.D
11/17/2025	B2511013	Q3651-03	-4.3	10331	6 L	10767		C2509005	VL043047.D Seq :VL100625 TUNE : VL043043.D ICAL : VL043037.D CCAL : VL043044.D MB : VL043045.D
11/17/2025	B2511013	Q3651-02	-3.9	10606	6 L	10707		C2509005	VL043047.D Seq :VL100625 TUNE : VL043043.D ICAL : VL043037.D CCAL : VL043044.D MB : VL043045.D
11/17/2025	B2511013	Q3651-01	-5.5	10281	6 L	10528		C2509005	VL043047.D Seq :VL100625 TUNE : VL043043.D ICAL : VL043037.D CCAL : VL043044.D MB : VL043045.D

10281
155

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

CHEMTECH

Client Sample ID #: 531
Client Name: GFE
Project Name: 316-318 Westbury
Date: 11/11 Time: 10:15
Analysis: TO-15
Comments: B2511013

CHEMTECH'S SAMPLE
Date Received: _____

Storage Location: VOA Lab
Sample: Q3651-01
Cust #: SV1

8090
63-3

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

CHEMTECH

Client Sample ID #: SV2
Client Name: GFE
Project Name: 316-318 Westbury
Date: 11/11 Time: 10:15
Analysis: TO-15
Comments: B2511013

CHEMTECH'S SAMPLE
Date Received: _____

Storage Location: VOA Lab
Sample: Q3651-02
Cust #: SV2

347-
320

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

CHEMTECH

Client Sample ID #: IA1
Client Name: GFE
Project Name: 316-318 Westbury
Date: 11/11 Time: 10:15
Analysis: TO-15
Comments: B2511013

CHEMTECH'S
Date Received: _____

Storage Location: VOA Lab
Sample: Q3651-03
Cust #: IA1

positional: 31015928

10320 247

CHEMTECH
284 Sheffield Street, Mountainside, NJ 07092 P: (908) 789-8900 F: (908) 789-8922

Client Sample ID #: IA2
Client Name: GFE
Project Name: 316-318 WESTBURY
Date: 11/11 Time: TD-15
Analysis: TD-15
Comments: TD-15

CHEMTECH'S SAN
Date Received: _____

Storage Location: VOA Lab
Sample: Q3651-04
Cust #: IA2

B2811012

10315 136

CHEMTECH
284 Sheffield Street, Mountainside, NJ 07092 P: (908) 789-8900 F: (908) 789-8922

Client Sample ID #: SV3
Client Name: GFE
Project Name: 316-318 WESTBURY
Date: 11/11 Time: TD-15
Analysis: TD-15
Comments: TD-15

CHEMTECH'S SAN
Date Received: _____

Storage Location: VOA Lab
Sample: Q3651-05
Cust #: SV3

B2811012

10320 247

CHEMTECH
284 Sheffield Street, Mountainside, NJ 07092 P: (908) 789-8900 F: (908) 789-8922

Client Sample ID #: IA3
Client Name: GFE
Project Name: 316-318 WESTBURY
Date: 11/11 Time: TD-15
Analysis: TD-15
Comments: TD-15

CHEMTECH'S SAN
Date Received: _____

Storage Location: VOA Lab
Sample: Q3651-06
Cust #: IA3

B2811012