

Cover Page

Order ID : Q1725

Project ID : US EPA Riverside Industrial Park Superfund Site

Client : Woodard & Curran

Lab Sample Number

Q1725-01
Q1725-02
Q1725-03
Q1725-04
Q1725-05
Q1725-06
Q1725-07
Q1725-08

Client Sample Number

SSSG-B1-2-04012025
SSSG-B10-4-04012025
SSSG-DUP-2-04012025
AA-1-03312025
SSSG-B14-3-04012025
SSSG-B10-3-03312025
SSSG-B10-1-03312025-SPLIT
SSSG-B10-2-03312025

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package has been authorized by the laboratory manager or his designee, as verified by the following signature.

Signature : _____

Date: 4/12/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012



SHIPPING DOCUMENTS

Client Contact Information				Bottle Order ID : B2503044				Courier :				_____ of _____ COCs							
Client ID : WOOD06 Project ID : US EPA Riverside Industrial Park Superfund S				Sampler Name(s) : <i>Clayton Motive</i>				Analysis				Matrix							
Customer Name : Woodard & Curran Address : 800 Westchester Avenue, Suite N507 Suite N507 City : Rye Brook State : NY Zip Code : 10573 Country :				Project Manager : JILL TRIBLEY				AIR ANALYSIS CHAIN-OF-CUSTODY Batch Certified											
				Phone Number : 800-807-4080															
				Fax Number : 914-448-0147															
				Site Details:															
				Analysis Turnaround Time															
Standard : 10 business days OR				Data Package Type :															
Rush (Specify): _____ Days				EDD Type :															
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
5554-B1-2-4/1/2025	4/1/25	0833	0951	-28	-4.5	51	51	-30	-5.9	10554	10153	6 L	70	VL04215.D	X			X	
Temperature (Fahrenheit)										GC/MS Analyst Signature (TO-15) <i>Self</i>									
		Ambient	Maximum	Minimum															
Start		41																	
Stop		45																	
Pressure (Inches of Hg)										** Submittal of this COC indicates approval of the analysis based on existing conditions. Please follow the instructions on the back of this COC.									
		Ambient	Maximum	Minimum															
Start		29.88																	
Stop		29.95																	
Special Instructions/QC Requirements & Comments :																			
Suspected Contamination: High Medium Low PID Readings: <i>0.0 ppm</i> Sampling site (State): <i>NY</i>																			
Quick Connector required : <i>NA</i>																			
Canisters Shipped by: <i>Self</i>				Date/Time: <i>03/21/25</i>				Canisters Received by: <i>CA</i>				Date/Time: <i>4/1/25 1005</i>				B2503044 - 1			
Samples Relinquished by: <i>CRN</i>				Date/Time: <i>4/1/25 1005</i>				Received by:				Date/Time:							
Relinquished by:				Date/Time:				Received by:				Date/Time:							

Client Contact Information				Bottle Order ID : B2503044				Courier :				_____ of _____ COCs						
Client ID : WOOD06				Project ID : US EPA Riverside Industrial Park Superfund S				Sampler Name(s) : <i>Alpha Hetero</i>				Analysis		Matrix				
Customer Name : Woodard & Curran Address : 800 Westchester Avenue, Suite N507 Suite N507 City : Rye Brook State : NY Zip Code : 10573 Country :				Project Manager : JILL TRIBLEY				AIR ANALYSIS CHAIN-OF-CUSTODY Batch Certified										
				Phone Number : 800-807-4080														
				Fax Number : 914-448-0147														
				Site Details:														
				Analysis Turnaround Time														
				Standard : 10 business days OR				Data Package Type :										
				Rush (Specify): _____ Days				EDD Type :										
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
SSG-810-4 4/1/2025	4/1/2025	0923	1054	-30	-5	77	77	-30	-4.7	10633	10321	6 L	100	VL04215.D	X		X	
Temperature (Fahrenheit)										GC/MS Analyst Signature (TO-15) <i>Sam</i>								
		Ambient	Maximum	Minimum														
Start		69																
Stop		69																
Pressure (Inches of Hg)										** Submittal of this COC indicates approval of the analysis based on existing conditions. Please follow the instructions on the back of this COC.								
		Ambient	Maximum	Minimum														
Start		29.90																
Stop																		
Special Instructions/QC Requirements & Comments :																		
Suspected Contamination: High Medium Low PID Readings:																		
Sampling site (State):																		
Quick Connector required : <i>NO</i>																		
Canisters Shipped by: <i>Sam</i>				Date/Time: <i>03/31/15</i>				Canisters Received by: <i>SA</i>				Date/Time: <i>4/3/25 1005</i>				B2503044 - 6		
Samples Relinquished by: <i>CPH</i>				Date/Time: <i>4/8/25 1005</i>				Received by:				Date/Time:						
Relinquished by:				Date/Time:				Received by:				Date/Time:						

Client Contact Information				Bottle Order ID : B2503044				Courier :				_____ of _____ COCs																			
Client ID : WOOD06				Project ID : US EPA Riverside Industrial Park Superfund S				Sampler Name(s) : <i>Clyde Hefner</i>				Analysis		Matrix																	
Customer Name : Woodard & Curran Address : 800 Westchester Avenue, Suite N507 City : Rye Brook State : NY Zip Code : 10573 Country :				Project Manager : JILL TRIBLEY				AIR ANALYSIS CHAIN-OF-CUSTODY Batch Certified																							
				Phone Number : 800-807-4080																											
				Fax Number : 914-448-0147																											
				Site Details:																											
Analysis Turnaround Time				Data Package Type :				EDD Type :																							
Standard : 10 business days OR				Rush (Specify): _____ Days																											
Sample Identification	Sample Date(s)	Time Start (24 hr Clock)	Time Stop (24 hr Clock)	Can Vacuum in Field ("Hg) (Start)	Can Vacuum in Field ("Hg) (Stop)**	Interior Temp. (F) (Start)	Interior Temp. (F) (Stop)	Out going Can Pressure ("Hg)(Lab)	In coming Can Pressure ("Hg)(Lab)	Flow Reg. ID	Can ID		Flow Controller Readout (ml/min)	Can Cert ID	TO-15			Indoor/Ambient Air	Soil Gas												
3559-008-2-4112025	4/1/25	1435	1535	-30	-4.5	65	65	-30	-8.8	10769	10296	6 L	100	VL04215.D	X				X												
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>56</td> <td></td> <td></td> </tr> <tr> <td>Stop</td> <td>56</td> <td></td> <td></td> </tr> </table>											Ambient	Maximum	Minimum	Start	56			Stop	56			GC/MS Analyst Signature (TO-15) <i>Sit</i>									
	Ambient	Maximum	Minimum																												
Start	56																														
Stop	56																														
Pressure (Inches of Hg) <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td></td> <td>Ambient</td> <td>Maximum</td> <td>Minimum</td> </tr> <tr> <td>Start</td> <td>30.02</td> <td></td> <td></td> </tr> <tr> <td>Stop</td> <td>30.02</td> <td></td> <td></td> </tr> </table>											Ambient	Maximum	Minimum	Start	30.02			Stop	30.02			** Submittal of this COC indicates approval of the analysis based on existing conditions. Please follow the instructions on the back of this COC.									
	Ambient	Maximum	Minimum																												
Start	30.02																														
Stop	30.02																														
Special Instructions/QC Requirements & Comments :																															
Suspected Contamination: High Medium Low PID Readings: <i>0.3 ppm</i>																															
Sampling site (State): <i>NO</i>																															
Quick Connector required : <i>NO</i>																															
Canisters Shipped by: <i>Sam</i>				Date/Time: <i>03/21/25</i>				Canisters Received by: <i>[Signature]</i>				Date/Time: <i>4/3/25 1005</i>				B2503044 - 4															
Samples Relinquished by: <i>[Signature]</i>				Date/Time: <i>4/13/25 1005</i>				Received by:				Date/Time:																			
Relinquished by:				Date/Time:				Received by:				Date/Time:																			

Client Contact Information				Bottle Order ID : B2503044				Courier :				_____ of _____ COCs								
Client ID : WOOD06 Project ID : US EPA Riverside Industrial Park Superfund S				Sampler Name(s) : <i>Clayton Dwyer</i>				Analysis				Matrix								
Customer Name : Woodard & Curran Address : 800 Westchester Avenue, Suite N507 Suite N507 City : Rye Brook State : NY Zip Code : 10573 Country :				Project Manager : JILL TRIBLEY				AIR ANALYSIS CHAIN-OF-CUSTODY Batch Certified												
				Phone Number : 800-807-4080																
				Fax Number : 914-448-0147																
				Site Details:																
				Analysis Turnaround Time																
Standard : 10 business days OR				Data Package Type :																
Rush (Specify): _____ Days				EDD Type :																
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
AA-1-3/31/2025	3/31/2025 4/1/2025	1210	1030	-30	-45	-	-	-30	-1.4	10520	10605	6 L	4.16	VL042182.D	X				X	
Temperature (Fahrenheit)										GC/MS Analyst Signature (TO-15) <i>[Signature]</i>										
		Ambient	Maximum	Minimum																
Start		65																		
Stop		45																		
Pressure (Inches of Hg)										** Submittal of this COC indicates approval of the analysis based on existing conditions. Please follow the instructions on the back of this COC.										
		Ambient	Maximum	Minimum																
Start		29.70																		
Stop		29.88																		
Special Instructions/QC Requirements & Comments :																				
Suspected Contamination: High Medium Low PID Readings: <i>0.0 ppm</i> Sampling site (State): <i>New Jersey</i>																				
Quick Connector required : <i>No</i>																				
Canisters Shipped by: <i>Sam</i>				Date/Time: <i>03/31/25</i>				Canisters Received by: <i>[Signature]</i>				Date/Time: <i>4/3/25 1005</i>				B2503044 - 13				
Samples Relinquished by: <i>[Signature]</i>				Date/Time: <i>4/3/25 1005</i>				Received by:				Date/Time:								
Relinquished by:				Date/Time:				Received by:				Date/Time:								

Client Contact Information				Bottle Order ID : B2503044				Courier :				_____ of _____ COCs			
Client ID : WOOD06				Project ID : US EPA Riverside Industrial Park Superfund S				Sampler Name(s) : <i>Cynthia Kletner</i>				Analysis		Matrix	
Customer Name : Woodard & Curran Address : 800 Westchester Avenue, Suite N507 Suite N507 City : Rye Brook State : NY Zip Code : 10573 Country :				Project Manager : JILL TRIBLEY				AIR ANALYSIS CHAIN-OF-CUSTODY Batch Certified							
				Phone Number : 800-807-4080											
				Fax Number : 914-448-0147											
				Site Details:											
				Analysis Turnaround Time											
				Standard : 10 business days OR				Data Package Type :							
				Rush (Specify): Days				EDD Type :							

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
5585-814-3-4/1/2025	4/1/25	1435	1535	-27.5	-4.5	65	65	-30	-5.9	10695	10279	6 L	100	VL04215.D	X				X	

Temperature (Fahrenheit)					GC/MS Analyst Signature (TO-15) <i>Sust</i>
	Ambient	Maximum	Minimum		
Start	56				
Stop	56				

Pressure (Inches of Hg)					** Submittal of this COC indicates approval of the analysis based on existing conditions. Please follow the instructions on the back of this COC.
	Ambient	Maximum	Minimum		
Start	30.02				
Stop	30.02				

Special Instructions/QC Requirements & Comments :

Suspected Contamination: High Medium Low PID Readings: *0.3 ppm*

Sampling site (State): *NJ*

Quick Connector required : *NJ*

Canisters Shipped by: <i>Sam</i>	Date/Time: <i>03/31/25</i>	Canisters Received by: <i>CA</i>	Date/Time: <i>4/3/25 1005</i>
Samples Relinquished by: <i>CDH</i>	Date/Time: <i>4/3/25 1005</i>	Received by:	Date/Time:
Relinquished by:	Date/Time:	Received by:	Date/Time:

Client Contact Information				Bottle Order ID : B2503008				Courier :				_____ of _____ COCs				
Client ID : WOOD06 Project ID : NYCHHC Environmental Services				Sampler Name(s) : <i>Center Hill</i>				Analysis				Matrix				
Customer Name : Woodard & Curran Address : 800 Westchester Avenue, Suite N507 Suite N507 City : Rye Brook State : NY Zip Code : 10573 Country :				Project Manager : YAZMEEN GOMEZ				AIR ANALYSIS CHAIN-OF-CUSTODY Batch Certified								
				Phone Number : 800-807-4080												
				Fax Number : 914-448-0147												
				Site Details:												
Analysis Turnaround Time				Data Package Type :												
Standard : 10 business days OR				EDD Type :												
Rush (Specify): Days																
Sample Identification	Sample Date(s)	Time Start (24 hr Clock)	Time Stop (24 hr Clock)	Can Vacuum in Field ("Hg) (Start)	Can Vacuum in Field ("Hg) (Stop)**	Interior Temp. (F) (Start)	Interior Temp. (F) (Stop)	Out going Can Pressure ("Hg)(Lab)	In coming Can Pressure ("Hg)(Lab)	Flow Reg. ID	Can ID	Flow Controller Readout (ml/min)	Can Cert ID	TO-15	Indoor/Ambient Air	Soil Gas
<i>8556-810-3-3/31/2025</i>	<i>3/31/25</i>	<i>1547</i>	<i>1636</i>	<i>-30</i>	<i>-4.5</i>	<i>71</i>	<i>71</i>	<i>-30</i>	<i>-2.7</i>	<i>10290</i>	<i>10466</i>	<i>6L 100</i>	<i>VL042092-D</i>	<i>X</i>		<i>X</i>
Temperature (Fahrenheit)										<i>10596</i> GC/MS Analyst Signature (TO-15) <i>[Signature]</i>						
		Ambient	Maximum	Minimum												
Start		<i>69</i>														
Stop		<i>69</i>														
Pressure (Inches of Hg)										** Submittal of this COC indicates approval of the analysis based on existing conditions. Please follow the instructions on the back of this COC.						
		Ambient	Maximum	Minimum												
Start		<i>29.90</i>														
Stop		<i>29.80</i>														
Special Instructions/QC Requirements & Comments :																
Suspected Contamination: High Medium Low PID Readings: <i>0.0 ppm</i> Sampling site (State): <i>NJ</i>																
Quick Connector required : <i>Yes</i>																
Canisters Shipped by: <i>Sam</i>				Date/Time: <i>03/26/25</i>				Canisters Received by: <i>[Signature]</i>				Date/Time: <i>4/3/25</i>				B2503008 - 18
Samples Relinquished by: <i>[Signature]</i>				Date/Time: <i>4/3/25</i>				Received by:				Date/Time:				
Relinquished by:				Date/Time:				Received by:				Date/Time:				

Client Contact Information				Bottle Order ID : B2503044				Courier :				_____ of _____ COCs										
Client ID : WOOD06 Project ID : US EPA Riverside Industrial Park Superfund S				Sampler Name(s) : <i>Clyde Hester</i>				Analysis				Matrix										
Customer Name : Woodard & Curran Address : 800 Westchester Avenue, Suite N507 Suite N507 City : Rye Brook State : NY Zip Code : 10573 Country :				Project Manager : JILL TRIBLEY				AIR ANALYSIS CHAIN-OF-CUSTODY Batch Certified														
				Phone Number : 800-807-4080																		
				Fax Number : 914-448-0147																		
				Site Details:																		
Analysis Turnaround Time				Data Package Type :																		
Standard : 10 business days OR				EDD Type :																		
Rush (Specify): Days																						
Sample Identification	Sample Date(s)	Time Start (24 hr Clock)	Time Stop (24 hr Clock)	Can Vacuum in Field ("Hg) (Start)	Can Vacuum in Field ("Hg) (Stop)**	Interior Temp. (F) (Start)	Interior Temp. (F) (Stop)	Out going Can Pressure ("Hg)(Lab)	In coming Can Pressure ("Hg)(Lab)	Flow Reg. ID	Can ID		Flow Controller Readout (ml/min)	Can Cert ID	TO-15				Indoor/Ambient Air	Soil Gas		
<i>5555-B10-1-3/31/2005/ Split</i>	<i>3/31/25</i>	<i>1337</i>	<i>1507</i>	<i>-3</i>	<i>-4.9</i>	<i>71</i>	<i>71</i>	<i>-30</i>	<i>-7.1</i>	<i>10536</i>	<i>10303</i>	<i>6 L</i>	<i>70</i>	<i>VL04215.D</i>	<i>X</i>					<i>X</i>		
Temperature (Fahrenheit)										GC/MS Analyst Signature (TO-15) <i>Sut</i>												
	Ambient	Maximum	Minimum																			
Start	<i>69</i>																					
Stop	<i>69</i>																					
Pressure (Inches of Hg)										** Submittal of this COC indicates approval of the analysis based on existing conditions. Please follow the instructions on the back of this COC.												
	Ambient	Maximum	Minimum																			
Start	<i>29.90</i>																					
Stop	<i>29.88</i>																					
Special Instructions/QC Requirements & Comments :																						
Suspected Contamination: High Medium Low PID Readings: <i>0.0ppm</i> Sampling site (State): <i>NJ</i>																						
Quick Connector required : <i>NJ</i>																						
Canisters Shipped by: <i>Scrum</i>				Date/Time: <i>3/24/25</i>				Canisters Received by: <i>SA</i>				Date/Time: <i>4/3/25 1005</i>				B2503044 - 5						
Samples Relinquished by: <i>CDR</i>				Date/Time: <i>4/3/25 1005</i>				Received by:				Date/Time:										
Relinquished by:				Date/Time:				Received by:				Date/Time:										

Client Contact Information				Bottle Order ID : B2503008				Courier :				_____ of _____ COCs										
Client ID : WOOD06 Project ID : NYCHHC Environmental Services				Project Manager : YAZMEEN GOMEZ				Sampler Name(s) : <i>Chad P. Hite</i>				Analysis		Matrix								
Customer Name : Woodard & Curran Address : 800 Westchester Avenue, Suite N507 Suite N507 City : Rye Brook State : NY Zip Code : 10573 Country :				Phone Number : 800-807-4080				AIR ANALYSIS CHAIN-OF-CUSTODY Batch Certified				TO-15				Indoor/Ambient Air	Soil Gas					
				Fax Number : 914-448-0147																		
				Site Details:																		
				Analysis Turnaround Time																		
Standard : 10 business days OR				Data Package Type :								TO-15					Indoor/Ambient Air	Soil Gas				
Rush (Specify): Days				EDD Type :																		
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								
SSSG-B10-2-3/31/2025	3/31/25	1424	1509	-30	-4.5	71	71	-30	-7.1	10523 10512	10333 10467	6L 100	100 200	VL042053-D	X			X				
Temperature (Fahrenheit)										GC/MS Analyst Signature (TO-15) <i>[Signature]</i>												
		Ambient	Maximum	Minimum																		
Start		69																				
Stop		69																				
Pressure (Inches of Hg)										** Submittal of this COC indicates approval of the analysis based on existing conditions. Please follow the instructions on the back of this COC.												
		Ambient	Maximum	Minimum																		
Start		29.90																				
Stop		29.80																				
Special Instructions/QC Requirements & Comments :																						
Suspected Contamination: High Medium Low PID Readings: <i>0.0 ppm</i>																						
Sampling site (State): <i>NO</i>																						
Quick Connector required : <i>Yes</i>																						
Canisters Shipped by: <i>Semi</i>				Date/Time: <i>03/24/25</i>				Canisters Received by: <i>[Signature]</i>				Date/Time: <i>4/3/25 1005</i>				B2503008 - 19						
Samples Relinquished by: <i>CPA</i>				Date/Time: <i>4/3/25 1005</i>				Received by:				Date/Time:										
Relinquished by:				Date/Time:				Received by:				Date/Time:										

Laboratory Certification

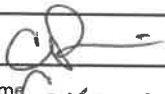
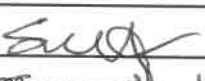
Certified By	License No.
CAS EPA CLP Contract	68HERH20D0011
Connecticut	PH-0830
DOD ELAP (ANAB)	L2219
Maine	2024021
Maryland	296
New Hampshire	255424 Rev 1
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	525-24-234-08441
Texas	T104704488

Internal Chain of Custody

Instructions: Use 1 form for each 20 samples of aliquot

Laboratory Person Breaking Field Seal on Sample Shuttle & Accepting Responsibility for Sample			
Laboratory: Chemtech		Location: 284 Sheffield Street, Mountainside, NJ 7092	
NAME:		Title: Sample Custodian	
Field Sample Seal No. Q1725		Date Broken 4/3/2025	
Case No.: US EPA Riverside Industria		Military Time Seal Broken: 10:05:00	
		Analytical Parameter/Fraction TO-15	

Sample No.	Aliquot/Extract No.	Sample No.	Aliquot/Extract No.
Q1725-01	SSSG-B1-2-04012025		
Q1725-02	SSSG-B10-4-04012025		
Q1725-03	SSSG-DUP-2-04012025		
Q1725-04	AA-1-03312025		
Q1725-05	SSSG-B14-3-04012025		
Q1725-06	SSSG-B10-3-03312025		
Q1725-07	SSSG-B10-1-03312025-SPLIT		
Q1725-08	SSSG-B10-2- ~~03312025~~ 03312025		

Date	Time	Relinquished By	Received By	Purpose of Change of Custody
4/9/25		Signature 	Signature 	
		Printed Name Casanova Pena	Printed Name Samuel J. ...	
		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	

Analyst Signature: Supervisor Signature:
METHOD: TO-15 Pressure Gauge ID: A255971

Document Control # A304122.8

CHEMTECH

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

Client Sample ID #: SSSG-B10-4-4/1/2025

Client Name: WPC

Project Name: Riverside

Date: 4/1/2025 Time: 1054

Analysis: TD-15

Comments:

Storage Location: Air Lab

Sample: Q1725-02

Cust #: SSSG-B10-4-04012025

Disposal:

CHEMTECH

Date Received:

CHEMTECH

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

Client Sample ID #: SSSG-B1-2-4/1/2025

Client Name: WPC

Project Name: WPC

Date: 3/31/2025 Time: 0951

Analysis: TD-15

Comments:

Storage Location: Air Lab

Sample: Q1725-01

Cust #: SSSG-B1-2-04012025

Disposal:

CHEMTECH

Date Received:

CHEMTECH

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

Client Sample ID #: SSSG-DUP-2-4/1/2025

Client Name: WPC

Project Name: Riverside

Date: 4/1/2025

Time: 1535

Analysis: TD-15

Comments:

Storage Location: Air Lab

Sample: Q1725-03

Cust #: SSSG-DUP-2-04012025

CHEMTECH'S

Date Received:

Disposal:

CHEMTECH

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

Client Sample ID #: ~~AA-1~~ B14-3-4/1/2025
Client Name: WBC
Project Name: _____
Date: 4/1/2025 Time: 1535
Analysis: TD-15
Comments: _____
CHEMTECH'S
Date Received: _____

Storage Location: Air Lab
Sample: Q1725-05
Cust #: SSSG-B14-3-04012025

B2503044

CHEMTECH

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

Client Sample ID #: AA-1-3/31/2025
Client Name: WBC
Project Name: Riverside
Date: 3/31-4/1 Time: 1030
Analysis: TD-15
Comments: _____
CHEMTECH'S
Date Received: _____

Storage Location: Air Lab
Sample: Q1725-04
Cust #: AA-1-03312025

B2503044

CHEMTECH

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

Client Sample ID #: SSSG-B10-3-3/31/2025
Client Name: WBC
Project Name: Riverside
Date: 3/31/2025 Time: 1636
Analysis: TD-15
Comments: _____
CHEMTECH'S
Date Received: _____

Storage Location: Air Lab
Sample: Q1725-06
Cust #: SSSG-B10-3-03312025

B2503044

B2503044

CHEMTECH

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

Client Sample ID #: SSSG-B10-2-3/31/2025

Client Name: W+C

Project Name: Riverside

Date: 3/31/2025 Time: 1509

Analysis: TO-15

Comments:

Storage Location: Air Lab

Sample: Q1725-08

Cust #: SSSG-B10-2-3312025

CHEMTECH'S

Date Received:

Disposal:

CHEMTECH

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

Client Sample ID #:

Client Name:

Project Name:

Date: Time:

Analysis:

Comments:

Storage Location: Air Lab

Sample: Q1725-07

Cust #: SSSG-B10-1-03312025-SPLIT

CHEMTECH'S

Date Received:

Disposal:



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

CASE NARRATIVE

Woodard & Curran

Project Name: US EPA Riverside Industrial Park Superfund Site

Project # N/A

Chemtech Project # Q1725

Test Name: TO-15

A. Number of Samples and Date of Receipt:

8 Air samples were received on 04/03/2025.

B. Parameters

According to the Chain of Custody document, the following analyses were requested: TO-15. This data package contains results for TO-15.

C. Analytical Techniques:

The analysis performed on instrument MSVOA_L were done using GC column RTX-1, which is 60 meters, 0.32 mm id, 1.0 um df, Restek Cat. #10157. The Trap was supplied by Entech, glass bead and Tenax, Entech 7100A Preconcentrator. The analysis of TO-15 was based on method TO-15.

D. QA/ QC Samples:

The Holding Times were met for all analysis.

The Surrogate recoveries met the acceptable criteria.

The Internal Standards Areas met the acceptable requirements.

The Retention Times were acceptable for all samples.

The RPD met criteria.

The Blank Spike met requirements for all samples.

The Blank analysis did not indicate the presence of lab contamination.

The Initial Calibration met the requirements.

The Continuous Calibration met the requirements.

The Tuning criteria met requirements.

Due to potential high concentration of target analytes, Samples SSSG-B14-3-04012025, SSSG-B10-3-03312025 and SSSG-B10-2-03312025 were initially diluted.

Samples SSSG-B10-4-04012025, SSSG-B10-4-04012025DL, SSSG-DUP-2-04012025, SSSG-B14-3-04012025, SSSG-B10-3-03312025, SSSG-B10-1-03312025-SPLIT and SSSG-B10-2-03312025 were diluted due to high concentrations.

E. Additional Comments:

The not QT review data is reported in the Miscellaneous.

The Form 6 is not included in the data package because the Initial Calibration was performed using 7 points.

The Sample #SSSG-DUP-2-04012025, SSSG-DUP-2-04012025DL, SSSG-B14-3-04012025, SSSG-B14-3-04012025DL, SSSG-B10-3-03312025, SSSG-B10-2-03312025, SSSG-B10-2-03312025DL have the concentration of target compound below Method detection limits, therefore it is not reported as Hit in Form1.

The Manual Integrations are performed for the followings:

Manual Integration Report			
Sequence	VL032725	Instrument	MSVOA_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICCC010	VL042172.D	m/p-Xylene	SAM	3/31/2025 11:24:55 AM	MMDadoda	4/3/2025 8:05:09 AM	Peak Integrated by Software incorrectly
VSTDICCC002	VL042173.D	1,4-Dioxane	SAM	3/31/2025 11:25:00 AM	MMDadoda	4/3/2025 8:05:13 AM	Peak Integrated by Software incorrectly
VSTDICCC002	VL042173.D	Ethanol	SAM	3/31/2025 11:25:00 AM	MMDadoda	4/3/2025 8:05:13 AM	Peak Integrated by Software incorrectly
VSTDICCC002	VL042173.D	m/p-Xylene	SAM	3/31/2025 11:25:00 AM	MMDadoda	4/3/2025 8:05:13 AM	Peak Integrated by Software incorrectly
VSTDICCC001	VL042174.D	1,4-Dioxane	SAM	3/31/2025 11:26:28 AM	MMDadoda	4/3/2025 8:05:22 AM	Peak Integrated by Software incorrectly
VSTDICCC001	VL042174.D	4-Methyl-2-Pentanone	SAM	3/31/2025 11:26:28 AM	MMDadoda	4/3/2025 8:05:22 AM	Peak Integrated by Software incorrectly

VSTDICC001	VL042174.D	Ethanol	SAM	3/31/2025 11:26:28 AM	MMDadoda	4/3/2025 8:05:22 AM	Peak Integrated by Software incorrectly
VSTDICC001	VL042174.D	m/p-Xylene	SAM	3/31/2025 11:26:28 AM	MMDadoda	4/3/2025 8:05:22 AM	Peak Integrated by Software incorrectly
VSTDICC001	VL042174.D	Methyl Methacrylate	SAM	3/31/2025 11:26:28 AM	MMDadoda	4/3/2025 8:05:22 AM	Peak Integrated by Software incorrectly
VSTDICC001	VL042174.D	Propene	SAM	3/31/2025 11:26:28 AM	MMDadoda	4/3/2025 8:05:22 AM	Peak Integrated by Software incorrectly
VSTDICC001	VL042174.D	t-1,3-Dichloropropene	SAM	3/31/2025 11:26:28 AM	MMDadoda	4/3/2025 8:05:22 AM	Peak Integrated by Software incorrectly

VSTDICC001	VL042174.D	trans-1,2-Dichloroethene	SAM	3/31/2025 11:26:28 AM	MMDadoda	4/3/2025 8:05:22 AM	Peak Integrated by Software incorrectly
VSTDICC001	VL042174.D	Vinyl Acetate	SAM	3/31/2025 11:26:28 AM	MMDadoda	4/3/2025 8:05:22 AM	Peak Integrated by Software incorrectly
VSTDICC0.5	VL042175.D	1,1,2-Trichloroethane	SAM	3/31/2025 11:26:33 AM	MMDadoda	4/3/2025 8:05:37 AM	Peak Integrated by Software incorrectly
VSTDICC0.5	VL042175.D	1,4-Dioxane	SAM	3/31/2025 11:26:33 AM	MMDadoda	4/3/2025 8:05:37 AM	Peak Integrated by Software incorrectly
VSTDICC0.5	VL042175.D	cis-1,3-Dichloropropene	SAM	3/31/2025 11:26:33 AM	MMDadoda	4/3/2025 8:05:37 AM	Peak Integrated by Software incorrectly
VSTDICC0.5	VL042175.D	Cyclohexane	SAM	3/31/2025 11:26:33 AM	MMDadoda	4/3/2025 8:05:37 AM	Peak Integrated by Software incorrectly

VSTDICC0.5	VL042175.D	m/p-Xylene	SAM	3/31/2025 11:26:33 AM	MMDadoda	4/3/2025 8:05:37 AM	Peak Integrated by Software incorrectly
VSTDICC0.5	VL042175.D	Methyl Methacrylate	SAM	3/31/2025 11:26:33 AM	MMDadoda	4/3/2025 8:05:37 AM	Peak Integrated by Software incorrectly
VSTDICC0.5	VL042175.D	Propene	SAM	3/31/2025 11:26:33 AM	MMDadoda	4/3/2025 8:05:37 AM	Peak Integrated by Software incorrectly
VSTDICC0.5	VL042175.D	Tetrahydrofuran	SAM	3/31/2025 11:26:33 AM	MMDadoda	4/3/2025 8:05:37 AM	Peak Integrated by Software incorrectly
VSTDICC0.5	VL042175.D	Trichloroethene	SAM	3/31/2025 11:26:33 AM	MMDadoda	4/3/2025 8:05:37 AM	Peak Integrated by Software incorrectly
VSTDICC0.1	VL042176.D	1,1,1- Trichloroethane	SAM	3/31/2025 11:25:04 AM	MMDadoda	4/3/2025 8:05:45 AM	Peak Integrated by Software incorrectly
VSTDICC0.1	VL042176.D	1,1,2,2- Tetrachloroethane	SAM	3/31/2025 11:25:04 AM	MMDadoda	4/3/2025 8:05:45 AM	Peak Integrated by Software incorrectly
VSTDICC0.1	VL042176.D	1,2- Dibromoethane	SAM	3/31/2025 11:25:04 AM	MMDadoda	4/3/2025 8:05:45 AM	Peak Integrated by Software incorrectly
VSTDICC0.1	VL042176.D	Carbon Tetrachloride	SAM	3/31/2025 11:25:04 AM	MMDadoda	4/3/2025 8:05:45 AM	Peak Integrated by Software incorrectly
VSTDICC0.1	VL042176.D	Trichloroethene	SAM	3/31/2025 11:25:04 AM	MMDadoda	4/3/2025 8:05:45 AM	Peak Integrated by Software incorrectly
VSTDICC0.03	VL042177.D	1,1,1- Trichloroethane	SAM	3/31/2025 11:26:39 AM	MMDadoda	4/3/2025 8:05:59 AM	Peak Integrated by Software incorrectly
VSTDICC0.03	VL042177.D	1,1,2,2- Tetrachloroethane	SAM	3/31/2025 11:26:39 AM	MMDadoda	4/3/2025 8:05:59 AM	Peak Integrated by Software incorrectly
VSTDICC0.03	VL042177.D	Carbon Tetrachloride	SAM	3/31/2025 11:26:39 AM	MMDadoda	4/3/2025 8:05:59 AM	Peak Integrated by Software incorrectly
VSTDICC0.03	VL042177.D	Tetrachloroethene	SAM	3/31/2025 11:26:39	MMDadoda	4/3/2025 8:05:59	Peak Integrated by

				AM		AM	Software incorrectly
VSTDICC0.03	VL042177.D	Trichloroethene	SAM	3/31/2025 11:26:39 AM	MMDadoda	4/3/2025 8:05:59 AM	Peak Integrated by Software incorrectly
VSTDICC0.03	VL042177.D	Vinyl Chloride	SAM	3/31/2025 11:26:39 AM	MMDadoda	4/3/2025 8:05:59 AM	Peak Integrated by Software incorrectly
VSTDICC015	VL042178.D	m/p-Xylene	SAM	3/31/2025 11:25:14 AM	MMDadoda	4/3/2025 8:06:09 AM	Peak Integrated by Software incorrectly
VSTDICV010	VL042179.D	m/p-Xylene	SAM	3/31/2025 11:28:50 AM	MMDadoda	4/3/2025 8:06:14 AM	Peak Integrated by Software incorrectly

Manual Integration Report			
Sequence	VL040725	Instrument	MSVOA_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC010	VL042228.D	Heptane	SAM	4/8/2025 8:57:24 AM	MMDadoda	4/9/2025 9:32:17 AM	Peak Integrated by Software incorrectly
VSTDCCC010	VL042228.D	m/p-Xylene	SAM	4/8/2025 8:57:24 AM	MMDadoda	4/9/2025 9:32:17 AM	Peak Integrated by Software incorrectly
VL0407ABS01	VL042230.D	m/p-Xylene	SAM	4/8/2025 8:57:31 AM	MMDadoda	4/9/2025 9:32:21 AM	Peak Integrated by Software incorrectly
Q1725-04	VL042231.D	4-Methyl-2-Pentanone	SAM	4/8/2025 8:57:51 AM	MMDadoda	4/9/2025 9:32:25 AM	Peak Integrated by Software incorrectly
Q1725-04	VL042231.D	Carbon Tetrachloride	SAM	4/8/2025 8:57:51 AM	MMDadoda	4/9/2025 9:32:25 AM	Peak Integrated by Software incorrectly
Q1725-04	VL042231.D	Chlorodifluoromethane	SAM	4/8/2025 8:57:51 AM	MMDadoda	4/9/2025 9:32:25 AM	Peak Integrated

				AM			by Software incorrectly
Q1725-04	VL042231.D	Heptane	SAM	4/8/2025 8:57:51 AM	MMDadoda	4/9/2025 9:32:25 AM	Peak Integrated by Software incorrectly
Q1725-04	VL042231.D	Toluene	SAM	4/8/2025 8:57:51 AM	MMDadoda	4/9/2025 9:32:25 AM	Peak Integrated by Software incorrectly
Q1725-04DUP	VL042232.D	4-Methyl-2-Pentanone	SAM	4/8/2025 8:58:38 AM	MMDadoda	4/9/2025 9:32:29 AM	Peak Integrated by Software incorrectly
Q1725-04DUP	VL042232.D	Chlorodifluoromethane	SAM	4/8/2025 8:58:38 AM	MMDadoda	4/9/2025 9:32:29 AM	Peak Integrated by Software incorrectly
Q1725-04DUP	VL042232.D	Heptane	SAM	4/8/2025 8:58:38 AM	MMDadoda	4/9/2025 9:32:29 AM	Peak Integrated by Software incorrectly
Q1725-04DUP	VL042232.D	m/p-Xylene	SAM	4/8/2025 8:58:38 AM	MMDadoda	4/9/2025 9:32:29 AM	Peak Integrated by Software incorrectly
Q1725-01	VL042234.D	Carbon Tetrachloride	SAM	4/8/2025 8:58:43 AM	MMDadoda	4/9/2025 9:32:49 AM	Peak Integrated by Software incorrectly
Q1725-01	VL042234.D	Chlorodifluoromethane	SAM	4/8/2025 8:58:43 AM	MMDadoda	4/9/2025 9:32:49 AM	Peak Integrated by Software incorrectly
Q1725-01	VL042234.D	Ethanol	SAM	4/8/2025 8:58:43 AM	MMDadoda	4/9/2025 9:32:49 AM	Peak Integrated by Software incorrectly
Q1725-01	VL042234.D	Heptane	SAM	4/8/2025 8:58:43 AM	MMDadoda	4/9/2025 9:32:49 AM	Peak Integrated by Software incorrectly
Q1725-01	VL042234.D	Hexane	SAM	4/8/2025 8:58:43	MMDadoda	4/9/2025 9:32:49 AM	Peak Integrated

				AM			by Software incorrectly
Q1725-01	VL042234.D	Tetrachloroethene	SAM	4/8/2025 8:58:43 AM	MMDadoda	4/9/2025 9:32:49 AM	Peak Integrated by Software incorrectly
Q1725-01	VL042234.D	Trichloroethene	SAM	4/8/2025 8:58:43 AM	MMDadoda	4/9/2025 9:32:49 AM	Peak Integrated by Software incorrectly
Q1725-02	VL042235.D	Benzene	SAM	4/8/2025 9:26:36 AM	MMDadoda	4/9/2025 9:32:56 AM	Peak Integrated by Software incorrectly
Q1725-02	VL042235.D	Bromodichloromethane	SAM	4/8/2025 9:26:36 AM	MMDadoda	4/9/2025 9:32:56 AM	Peak Integrated by Software incorrectly
Q1725-02	VL042235.D	Chlorobenzene	SAM	4/8/2025 9:26:36 AM	MMDadoda	4/9/2025 9:32:56 AM	Peak Integrated by Software incorrectly
Q1725-02	VL042235.D	Heptane	SAM	4/8/2025 9:26:36 AM	MMDadoda	4/9/2025 9:32:56 AM	Peak Integrated by Software incorrectly
Q1725-02	VL042235.D	Propene	SAM	4/8/2025 9:26:36 AM	MMDadoda	4/9/2025 9:32:56 AM	Peak Integrated by Software incorrectly
Q1725-02	VL042235.D	tert-Butyl alcohol	SAM	4/8/2025 9:26:36 AM	MMDadoda	4/9/2025 9:32:56 AM	Peak Integrated by Software incorrectly
Q1725-02DL	VL042236.D	Carbon Tetrachloride	SAM	4/8/2025 8:58:49 AM	MMDadoda	4/9/2025 9:33:00 AM	Peak Integrated by Software incorrectly
Q1725-02DL	VL042236.D	Methylene Chloride	SAM	4/8/2025 8:58:49 AM	MMDadoda	4/9/2025 9:33:00 AM	Peak Integrated by Software incorrectly
Q1725-02DL	VL042236.D	Tetrachloroethene	SAM	4/8/2025 8:58:49 AM	MMDadoda	4/9/2025 9:33:00 AM	Peak Integrated

				AM			by Software incorrectly
Q1725-02DL	VL042236.D	Toluene	SAM	4/8/2025 8:58:49 AM	MMDadoda	4/9/2025 9:33:00 AM	Peak Integrated by Software incorrectly
Q1725-02DL	VL042236.D	Trichloroethene	SAM	4/8/2025 8:58:49 AM	MMDadoda	4/9/2025 9:33:00 AM	Peak Integrated by Software incorrectly
Q1725-05DL	VL042239.D	Ethanol	SAM	4/8/2025 9:26:41 AM	MMDadoda	4/9/2025 9:33:12 AM	Peak Integrated by Software incorrectly

Q1725-07DL	VL042241.D	m/p-Xylene	SAM	4/8/2025 8:58:21 AM	MMDadoda	4/9/2025 9:33:30 AM	Peak Integrated by Software incorrectly
Q1725-07DL	VL042241.D	Toluene	SAM	4/8/2025 8:58:21 AM	MMDadoda	4/9/2025 9:33:30 AM	Peak Integrated by Software incorrectly
Q1725-02DL2	VL042243.D	Carbon Tetrachloride	SAM	4/8/2025 8:59:08 AM	MMDadoda	4/9/2025 9:33:38 AM	Peak Integrated by Software incorrectly
Q1725-02DL2	VL042243.D	Ethanol	SAM	4/8/2025 8:59:08 AM	MMDadoda	4/9/2025 9:33:38 AM	Peak Integrated by Software incorrectly
Q1725-02DL2	VL042243.D	Tetrachloroethene	SAM	4/8/2025 8:59:08 AM	MMDadoda	4/9/2025 9:33:38 AM	Peak Integrated by Software incorrectly
Q1725-02DL2	VL042243.D	Trichloroethene	SAM	4/8/2025 8:59:08 AM	MMDadoda	4/9/2025 9:33:38 AM	Peak Integrated by Software incorrectly
Q1725-03DL	VL042244.D	Ethanol	SAM	4/8/2025 8:59:12 AM	MMDadoda	4/9/2025 9:33:41 AM	Peak Integrated by Software incorrectly
Q1725-03DL	VL042244.D	Toluene	SAM	4/8/2025	MMDadoda	4/9/2025	Peak

				8:59:12 AM		9:33:41 AM	Integrated by Software incorrectly
Q1725-05	VL042245.D	Carbon Tetrachloride	SAM	4/8/2025 8:58:17 AM	MMDadoda	4/9/2025 9:33:45 AM	Peak Integrated by Software incorrectly
Q1725-05	VL042245.D	Chlorodifluoromethane	SAM	4/8/2025 8:58:17 AM	MMDadoda	4/9/2025 9:33:45 AM	Peak Integrated by Software incorrectly
Q1725-05	VL042245.D	Ethanol	SAM	4/8/2025 8:58:17 AM	MMDadoda	4/9/2025 9:33:45 AM	Peak Integrated by Software incorrectly
Q1725-05	VL042245.D	Propene	SAM	4/8/2025 8:58:17 AM	MMDadoda	4/9/2025 9:33:45 AM	Peak Integrated by Software incorrectly
Q1725-05	VL042245.D	Tetrachloroethene	SAM	4/8/2025 8:58:17 AM	MMDadoda	4/9/2025 9:33:45 AM	Peak Integrated by Software incorrectly
Q1725-06	VL042247.D	Propene	SAM	4/8/2025 9:26:53 AM	MMDadoda	4/9/2025 9:33:53 AM	Peak Integrated by Software incorrectly
Q1725-06	VL042247.D	tert-Butyl alcohol	SAM	4/8/2025 9:26:53 AM	MMDadoda	4/9/2025 9:33:53 AM	Peak Integrated by Software incorrectly
Q1725-06	VL042247.D	Tetrahydrofuran	SAM	4/8/2025 9:26:53 AM	MMDadoda	4/9/2025 9:33:53 AM	Peak Integrated by Software incorrectly
Q1725-06	VL042247.D	Toluene	SAM	4/8/2025 9:26:53 AM	MMDadoda	4/9/2025 9:33:53 AM	Peak Integrated by Software incorrectly
Q1725-06DL	VL042248.D	Tetrachloroethene	SAM	4/14/2025 5:24:10 AM	MMDadoda	4/14/2025 5:25:27 AM	Peak Integrated by Software incorrectly

Q1725-07	VL042249.D	1,1,1-Trichloroethane	SAM	4/8/2025 8:59:17 AM	MMDadoda	4/9/2025 9:33:57 AM	Peak Integrated by Software incorrectly
Q1725-07	VL042249.D	2,2,4- Trimethylpentane	SAM	4/8/2025 8:59:17 AM	MMDadoda	4/9/2025 9:33:57 AM	Peak Integrated by Software incorrectly
Q1725-07	VL042249.D	Carbon Tetrachloride	SAM	4/8/2025 8:59:17 AM	MMDadoda	4/9/2025 9:33:57 AM	Peak Integrated by Software incorrectly
Q1725-07	VL042249.D	Chlorodifluoromethane	SAM	4/8/2025 8:59:17 AM	MMDadoda	4/9/2025 9:33:57 AM	Peak Integrated by Software incorrectly
Q1725-07	VL042249.D	Propene	SAM	4/8/2025 8:59:17 AM	MMDadoda	4/9/2025 9:33:57 AM	Peak Integrated by Software incorrectly
Q1725-07	VL042249.D	tert-Butyl alcohol	SAM	4/8/2025 8:59:17 AM	MMDadoda	4/9/2025 9:33:57 AM	Peak Integrated by Software incorrectly
Q1725-07	VL042249.D	Tetrachloroethene	SAM	4/8/2025 8:59:17 AM	MMDadoda	4/9/2025 9:33:57 AM	Peak Integrated by Software incorrectly
Q1725-07	VL042249.D	Trichloroethene	SAM	4/8/2025 8:59:17 AM	MMDadoda	4/9/2025 9:33:57 AM	Peak Integrated by Software incorrectly
Q1725-08	VL042250.D	Benzene	SAM	4/8/2025 8:58:10 AM	MMDadoda	4/9/2025 9:34:00 AM	Peak Integrated by Software incorrectly
Q1725-08	VL042250.D	Ethyl Benzene	SAM	4/8/2025 8:58:10 AM	MMDadoda	4/9/2025 9:34:00 AM	Peak Integrated by Software incorrectly
Q1725-08	VL042250.D	Propene	SAM	4/8/2025 8:58:10 AM	MMDadoda	4/9/2025 9:34:00 AM	Peak Integrated by Software

							incorrectly
Q1725-08	VL042250.D	tert-Butyl alcohol	SAM	4/8/2025 8:58:10 AM	MMDadoda	4/9/2025 9:34:00 AM	Peak Integrated by Software incorrectly
Q1725-08	VL042250.D	Toluene	SAM	4/8/2025 8:58:10 AM	MMDadoda	4/9/2025 9:34:00 AM	Peak Integrated by Software incorrectly
Q1725-08DL	VL042251.D	Tetrachloroethene	SAM	4/8/2025 8:58:05 AM	MMDadoda	4/9/2025 9:34:04 AM	Peak Integrated by Software incorrectly

Manual Integration Report			
Sequence	VL040825	Instrument	MSVOA_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC010	VL042253.D	m/p-Xylene	SAM	4/9/2025 11:25:40 AM	MMDadoda	4/9/2025 11:41:57 AM	Peak Integrated by Software incorrectly
VL0408ABS01	VL042255.D	m/p-Xylene	SAM	4/9/2025 11:25:44 AM	MMDadoda	4/9/2025 11:41:59 AM	Peak Integrated by Software incorrectly
Q1725-03	VL042256.D	Carbon Tetrachloride	SAM	4/9/2025 11:30:22 AM	MMDadoda	4/9/2025 11:42:01 AM	Peak Integrated by Software incorrectly
Q1725-03	VL042256.D	Chlorodifluoromethane	SAM	4/9/2025 11:30:22 AM	MMDadoda	4/9/2025 11:42:01 AM	Peak Integrated by Software incorrectly
Q1725-03	VL042256.D	Ethanol	SAM	4/9/2025 11:30:22 AM	MMDadoda	4/9/2025 11:42:01 AM	Peak Integrated by Software

							incorrectly
Q1725-03	VL042256.D	Propene	SAM	4/9/2025 11:30:22 AM	MMDadoda	4/9/2025 11:42:01 AM	Peak Integrated by Software incorrectly
Q1725-03	VL042256.D	Tetrachloroethene	SAM	4/9/2025 11:30:22 AM	MMDadoda	4/9/2025 11:42:01 AM	Peak Integrated by Software incorrectly
Q1725-03	VL042256.D	Trichloroethene	SAM	4/9/2025 11:30:22 AM	MMDadoda	4/9/2025 11:42:01 AM	Peak Integrated by Software incorrectly

F. Manual Integration Comments:

Please refer to the Manual integration Report included with the Run Logs for information on the manual integrations performed.

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

Signature_____

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

APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: Q1725

Completed

For thorough review, the report must have the following:

GENERAL:

Are all original paperwork present (chain of custody, record of communication,airbill, sample management lab chronicle, login page)

✓

Check chain-of-custody for proper relinquish/return of samples

✓

Is the chain of custody signed and complete

✓

Check internal chain-of-custody for proper relinquish/return of samples /sample extracts

✓

Collect information for each project id from server. Were all requirements followed

✓

COVER PAGE:

Do numbers of samples correspond to the number of samples in the Chain of Custody on login page

✓

Do lab numbers and client Ids on cover page agree with the Chain of Custody

✓

CHAIN OF CUSTODY:

Do requested analyses on Chain of Custody agree with form I results

✓

Do requested analyses on Chain of Custody agree with the log-in page

✓

Were the correct method log-in for analysis according to the Analytical Request and Chain of Custody

✓

Were the samples received within hold time

✓

Were any problems found with the samples at arrival recorded in the Sample Management Laboratory Chronicle

✓

ANALYTICAL:

Was method requirement followed?

✓

Was client requirement followed?

✓

Does the case narrative summarize all QC failure?

✓

All runlogs and manual integration are reviewed for requirements

✓

All manual calculations and /or hand notations verified

✓

QA Review Signature: SOHIL JODHANI

Date: 04/12/2025

LAB CHRONICLE

OrderID:	Q1725	OrderDate:	4/3/2025 1:48:00 PM
Client:	Woodard & Curran	Project:	US EPA Riverside Industrial Park Superfund Site
Contact:	Bryan Maurer	Location:	Air Lab

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q1725-01	SSSG-B1-2-04012025	Air	TO-15	TO-15	04/01/25		04/07/25	04/03/25
Q1725-02	SSSG-B10-4-04012025	Air	TO-15	TO-15	04/01/25		04/07/25	04/03/25
Q1725-02DL	SSSG-B10-4-04012025DL	Air	TO-15	TO-15	04/01/25		04/07/25	04/03/25
Q1725-02DL 2	SSSG-B10-4-04012025DL2	Air	TO-15	TO-15	04/01/25		04/07/25	04/03/25
Q1725-03	SSSG-DUP-2-04012025	Air	TO-15	TO-15	04/01/25		04/08/25	04/03/25
Q1725-03DL	SSSG-DUP-2-04012025DL	Air	TO-15	TO-15	04/01/25		04/07/25	04/03/25
Q1725-04	AA-1-03312025	Air	TO-15	TO-15	04/01/25		04/07/25	04/03/25
Q1725-05	SSSG-B14-3-04012025	Air	TO-15	TO-15	04/01/25		04/07/25	04/03/25
Q1725-05DL	SSSG-B14-3-04012025DL	Air	TO-15	TO-15	04/01/25		04/07/25	04/03/25

LAB CHRONICLE

Q1725-06	SSSG-B10-3-0331202 5	Air			03/31/25	04/03/25
			TO-15	TO-15		04/07/25
Q1725-06DL	SSSG-B10-3-0331202 5DL	Air			03/31/25	04/03/25
			TO-15	TO-15		04/08/25
Q1725-07	SSSG-B10-1-0331202 5-SPLIT	Air			03/31/25	04/03/25
			TO-15	TO-15		04/08/25
Q1725-07DL	SSSG-B10-1-0331202 5-SPLITDL	Air			03/31/25	04/03/25
			TO-15	TO-15		04/07/25
Q1725-08	SSSG-B10-2-0331202 5	Air			03/31/25	04/03/25
			TO-15	TO-15		04/08/25
Q1725-08DL	SSSG-B10-2-0331202 5DL	Air			03/31/25	04/03/25
			TO-15	TO-15		04/08/25

Hit Summary Sheet SW-846

SDG No.: Q1725
Client: Woodard & Curran

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID: SSSG-B1-2-04012025								
Q1725-01	SSSG-B1-2-040120	Air	Dichlorodifluoromethane	1.98	J	1.04	2.47	ug/m3
Q1725-01	SSSG-B1-2-040120	Air	Trichlorofluoromethane	1.18	J	0.90	2.81	ug/m3
Q1725-01	SSSG-B1-2-040120	Air	Heptane	0.49	J	0.45	2.05	ug/m3
Q1725-01	SSSG-B1-2-040120	Air	Acetone	5.94		0.57	1.19	ug/m3
Q1725-01	SSSG-B1-2-040120	Air	Methylene Chloride	3.40		0.66	1.74	ug/m3
Q1725-01	SSSG-B1-2-040120	Air	2-Butanone	0.59	J	0.35	1.47	ug/m3
Q1725-01	SSSG-B1-2-040120	Air	Carbon Tetrachloride	0.44		0.060	0.19	ug/m3
Q1725-01	SSSG-B1-2-040120	Air	Chloroform	9.77		0.39	2.44	ug/m3
Q1725-01	SSSG-B1-2-040120	Air	Benzene	0.45	J	0.29	1.60	ug/m3
Q1725-01	SSSG-B1-2-040120	Air	Trichloroethene	0.38		0.11	0.16	ug/m3
Q1725-01	SSSG-B1-2-040120	Air	Toluene	7.91		0.41	1.88	ug/m3
Q1725-01	SSSG-B1-2-040120	Air	Tetrachloroethene	0.34		0.14	0.20	ug/m3
Q1725-01	SSSG-B1-2-040120	Air	Chlorobenzene	0.92	J	0.37	2.30	ug/m3
Q1725-01	SSSG-B1-2-040120	Air	Ethyl Benzene	1.22	J	0.52	2.17	ug/m3
Q1725-01	SSSG-B1-2-040120	Air	m/p-Xylene	5.21		0.91	4.34	ug/m3
Q1725-01	SSSG-B1-2-040120	Air	o-Xylene	1.74	J	0.52	2.17	ug/m3
Q1725-01	SSSG-B1-2-040120	Air	Styrene	0.94	J	0.47	2.13	ug/m3
Q1725-01	SSSG-B1-2-040120	Air	1,2,4-Trimethylbenzene	1.13	J	0.39	2.46	ug/m3
Q1725-01	SSSG-B1-2-040120	Air	Hexane	1.09	J	0.39	1.76	ug/m3
			Total Voc :			45.1		
Q1725-01	SSSG-B1-2-040120	Air	Chlorodifluoromethane	* 0.27	J	0.090	0.50	ppbv
			Total Tics :			0.27		
			Total Concentration:			45.4		
Client ID: SSSG-B10-4-04012025								
Q1725-02	SSSG-B10-4-04012	Air	Dichlorodifluoromethane	1.98	J	1.04	2.47	ug/m3
Q1725-02	SSSG-B10-4-04012	Air	Chloromethane	0.27	J	0.21	1.03	ug/m3
Q1725-02	SSSG-B10-4-04012	Air	Trichlorofluoromethane	1.29	J	0.90	2.81	ug/m3
Q1725-02	SSSG-B10-4-04012	Air	tert-Butyl alcohol	1.49	J	0.58	1.52	ug/m3
Q1725-02	SSSG-B10-4-04012	Air	Heptane	0.61	J	0.45	2.05	ug/m3
Q1725-02	SSSG-B10-4-04012	Air	1,1-Dichloroethene	6.34		0.56	1.98	ug/m3
Q1725-02	SSSG-B10-4-04012	Air	Acetone	74.3	E	0.57	1.19	ug/m3
Q1725-02	SSSG-B10-4-04012	Air	Methylene Chloride	2.33		0.66	1.74	ug/m3
Q1725-02	SSSG-B10-4-04012	Air	2-Butanone	2.04		0.35	1.47	ug/m3
Q1725-02	SSSG-B10-4-04012	Air	Carbon Tetrachloride	22.6		0.060	0.19	ug/m3
Q1725-02	SSSG-B10-4-04012	Air	Chloroform	586	E	0.39	2.44	ug/m3
Q1725-02	SSSG-B10-4-04012	Air	1,1,1-Trichloroethane	0.60		0.050	0.16	ug/m3

Hit Summary Sheet SW-846

SDG No.: Q1725

Client: Woodard & Curran

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Q1725-02	SSSG-B10-4-04012	Air	Benzene	0.77	J	0.29	1.60	ug/m3
Q1725-02	SSSG-B10-4-04012	Air	Trichloroethene	4.94		0.11	0.16	ug/m3
Q1725-02	SSSG-B10-4-04012	Air	Bromodichloromethane	2.81	J	0.54	3.35	ug/m3
Q1725-02	SSSG-B10-4-04012	Air	Toluene	5.28		0.41	1.88	ug/m3
Q1725-02	SSSG-B10-4-04012	Air	Tetrachloroethene	21.0		0.14	0.20	ug/m3
Q1725-02	SSSG-B10-4-04012	Air	Chlorobenzene	0.74	J	0.37	2.30	ug/m3
Q1725-02	SSSG-B10-4-04012	Air	Ethyl Benzene	1.17	J	0.52	2.17	ug/m3
Q1725-02	SSSG-B10-4-04012	Air	m/p-Xylene	4.78		0.91	4.34	ug/m3
Q1725-02	SSSG-B10-4-04012	Air	o-Xylene	1.69	J	0.52	2.17	ug/m3
Q1725-02	SSSG-B10-4-04012	Air	Styrene	1.45	J	0.47	2.13	ug/m3
Q1725-02	SSSG-B10-4-04012	Air	1,2,4-Trimethylbenzene	1.87	J	0.39	2.46	ug/m3
Q1725-02	SSSG-B10-4-04012	Air	Hexane	1.59	J	0.39	1.76	ug/m3
Total Voc :				748				
Q1725-02	SSSG-B10-4-04012	Air	unknown12.267	* 8.10	J	0	0	ppbv
Q1725-02	SSSG-B10-4-04012	Air	Hexane, 3,3-dimethyl-	* 2.80	J	0	0	ppbv
Q1725-02	SSSG-B10-4-04012	Air	D-Limonene	* 1.90	J	0	0	ppbv
Q1725-02	SSSG-B10-4-04012	Air	Heptane, 2,2,4,6,6-pentamethyl	* 1.90	J	0	0	ppbv
Q1725-02	SSSG-B10-4-04012	Air	6-Chloro-2-ethyl-4-phenylquin	* 87.6	J	0	0	ppbv
Q1725-02	SSSG-B10-4-04012	Air	Nonane, 3-methyl-5-propyl-	* 9.20	J	0	0	ppbv
Q1725-02	SSSG-B10-4-04012	Air	Octane, 2,2,6-trimethyl-	* 2.60	J	0	0	ppbv
Q1725-02	SSSG-B10-4-04012	Air	Heptane, 5-ethyl-2,2,3-trimethy	* 6.30	J	0	0	ppbv
Q1725-02	SSSG-B10-4-04012	Air	Propene	* 2.50	J	0.15	0.50	ppbv
Total Tics :				123				
Total Concentration:				871				
Client ID:	SSSG-B10-4-04012025DL							
Q1725-02DL	SSSG-B10-4-04012	Air	1,1-Dichloroethene	6.34	JD	5.55	19.8	ug/m3
Q1725-02DL	SSSG-B10-4-04012	Air	Acetone	80.5	D	5.70	11.9	ug/m3
Q1725-02DL	SSSG-B10-4-04012	Air	Methylene Chloride	8.69	JD	6.60	17.4	ug/m3
Q1725-02DL	SSSG-B10-4-04012	Air	Carbon Tetrachloride	20.8	D	0.69	1.89	ug/m3
Q1725-02DL	SSSG-B10-4-04012	Air	Chloroform	1950	ED	4.05	24.4	ug/m3
Q1725-02DL	SSSG-B10-4-04012	Air	Trichloroethene	5.27	D	0.91	1.61	ug/m3
Q1725-02DL	SSSG-B10-4-04012	Air	Toluene	4.52	JD	4.15	18.8	ug/m3
Q1725-02DL	SSSG-B10-4-04012	Air	Tetrachloroethene	19.7	D	1.02	2.03	ug/m3
Total Voc :				2100				
Total Concentration:				2100				
Client ID:	SSSG-B10-4-04012025DL2							
Q1725-02DL2	SSSG-B10-4-04012	Air	Acetone	101	D	22.8	47.5	ug/m3

Hit Summary Sheet SW-846

SDG No.: Q1725

Client: Woodard & Curran

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Q1725-02DL2	SSSG-B10-4-04012	Air	Chloroform	2340	D	16.1	97.7	ug/m3
			Total Voc :	2450				
			Total Concentration:	2450				
Client ID:	SSSG-DUP-2-04012025							
Q1725-03	SSSG-DUP-2-04012	Air	Dichlorodifluoromethane	1.83	J	1.04	2.47	ug/m3
Q1725-03	SSSG-DUP-2-04012	Air	Chloromethane	0.85	J	0.21	1.03	ug/m3
Q1725-03	SSSG-DUP-2-04012	Air	Trichlorofluoromethane	1.12	J	0.90	2.81	ug/m3
Q1725-03	SSSG-DUP-2-04012	Air	Acetone	91.5	E	0.57	1.19	ug/m3
Q1725-03	SSSG-DUP-2-04012	Air	Methylene Chloride	2.19		0.66	1.74	ug/m3
Q1725-03	SSSG-DUP-2-04012	Air	2-Butanone	1.30	J	0.35	1.47	ug/m3
Q1725-03	SSSG-DUP-2-04012	Air	Carbon Tetrachloride	0.50		0.060	0.19	ug/m3
Q1725-03	SSSG-DUP-2-04012	Air	Chloroform	1.90	J	0.39	2.44	ug/m3
Q1725-03	SSSG-DUP-2-04012	Air	Benzene	0.51	J	0.29	1.60	ug/m3
Q1725-03	SSSG-DUP-2-04012	Air	Trichloroethene	0.27		0.11	0.16	ug/m3
Q1725-03	SSSG-DUP-2-04012	Air	Toluene	2.71		0.41	1.88	ug/m3
Q1725-03	SSSG-DUP-2-04012	Air	Tetrachloroethene	0.54		0.14	0.20	ug/m3
Q1725-03	SSSG-DUP-2-04012	Air	Ethyl Benzene	5.65		0.52	2.17	ug/m3
Q1725-03	SSSG-DUP-2-04012	Air	m/p-Xylene	27.4		0.91	4.34	ug/m3
Q1725-03	SSSG-DUP-2-04012	Air	o-Xylene	5.21		0.52	2.17	ug/m3
Q1725-03	SSSG-DUP-2-04012	Air	Styrene	1.49	J	0.47	2.13	ug/m3
Q1725-03	SSSG-DUP-2-04012	Air	1,3,5-Trimethylbenzene	0.64	J	0.54	2.46	ug/m3
Q1725-03	SSSG-DUP-2-04012	Air	1,2,4-Trimethylbenzene	1.77	J	0.39	2.46	ug/m3
Q1725-03	SSSG-DUP-2-04012	Air	Hexane	0.99	J	0.39	1.76	ug/m3
			Total Voc :	148				
Q1725-03	SSSG-DUP-2-04012	Air	unknown12.267	* 1.30	J	0	0	ppbv
Q1725-03	SSSG-DUP-2-04012	Air	Undecane	* 2.00	J	0	0	ppbv
Q1725-03	SSSG-DUP-2-04012	Air	D-Limonene	* 2.20	J	0	0	ppbv
Q1725-03	SSSG-DUP-2-04012	Air	Butanoic acid, 2-methyl-, ethyl	* 2.30	J	0	0	ppbv
Q1725-03	SSSG-DUP-2-04012	Air	Nonane, 3,7-dimethyl-	* 1.80	J	0	0	ppbv
Q1725-03	SSSG-DUP-2-04012	Air	2-Hexyldecyl isobutyrate	* 1.10	J	0	0	ppbv
Q1725-03	SSSG-DUP-2-04012	Air	Chlorodifluoromethane	* 0.34	J	0.090	0.50	ppbv
Q1725-03	SSSG-DUP-2-04012	Air	Propene	* 0.40	J	0.15	0.50	ppbv
			Total Tics :	11.4				
			Total Concentration:	160				
Client ID:	SSSG-DUP-2-04012025DL							
Q1725-03DL	SSSG-DUP-2-04012	Air	Chloromethane	1.09	JD	0.81	4.13	ug/m3
Q1725-03DL	SSSG-DUP-2-04012	Air	Acetone	104	D	2.28	4.75	ug/m3

Hit Summary Sheet SW-846

SDG No.: Q1725

Client: Woodard & Curran

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Q1725-03DL	SSSG-DUP-2-0401	Air	Methylene Chloride	4.17	JD	2.64	6.95	ug/m3
Q1725-03DL	SSSG-DUP-2-0401	Air	Chloroform	2.10	JD	1.61	9.77	ug/m3
Q1725-03DL	SSSG-DUP-2-0401	Air	Toluene	2.30	JD	1.66	7.54	ug/m3
Q1725-03DL	SSSG-DUP-2-0401	Air	Ethyl Benzene	4.34	JD	2.08	8.69	ug/m3
Q1725-03DL	SSSG-DUP-2-0401	Air	m/p-Xylene	18.2	D	3.65	17.4	ug/m3
Q1725-03DL	SSSG-DUP-2-0401	Air	o-Xylene	3.65	JD	2.08	8.69	ug/m3
Total Voc :				140				
Total Concentration:				140				
Client ID:	AA-1-03312025							
Q1725-04	AA-1-03312025	Air	Dichlorodifluoromethane	1.98	J	1.04	2.47	ug/m3
Q1725-04	AA-1-03312025	Air	Chloromethane	1.20		0.21	1.03	ug/m3
Q1725-04	AA-1-03312025	Air	Trichlorofluoromethane	1.18	J	0.90	2.81	ug/m3
Q1725-04	AA-1-03312025	Air	Heptane	0.45	J	0.45	2.05	ug/m3
Q1725-04	AA-1-03312025	Air	Acetone	12.1		0.57	1.19	ug/m3
Q1725-04	AA-1-03312025	Air	Methylene Chloride	1.39	J	0.66	1.74	ug/m3
Q1725-04	AA-1-03312025	Air	2-Butanone	1.56		0.35	1.47	ug/m3
Q1725-04	AA-1-03312025	Air	Carbon Tetrachloride	0.44		0.060	0.19	ug/m3
Q1725-04	AA-1-03312025	Air	Benzene	0.45	J	0.29	1.60	ug/m3
Q1725-04	AA-1-03312025	Air	4-Methyl-2-Pentanone	0.53	J	0.37	2.05	ug/m3
Q1725-04	AA-1-03312025	Air	Toluene	2.30		0.41	1.88	ug/m3
Q1725-04	AA-1-03312025	Air	m/p-Xylene	0.96	J	0.91	4.34	ug/m3
Q1725-04	AA-1-03312025	Air	Hexane	1.16	J	0.39	1.76	ug/m3
Total Voc :				25.7				
Q1725-04	AA-1-03312025	Air	Chlorodifluoromethane	* 0.28	J	0.090	0.50	ppbv
Q1725-04	AA-1-03312025	Air	Propene	* 0.48	J	0.15	0.50	ppbv
Total Tics :				0.76				
Total Concentration:				26.5				
Client ID:	SSSG-B14-3-04012025							
Q1725-05	SSSG-B14-3-04012	Air	Dichlorodifluoromethane	2.27	J	2.08	4.94	ug/m3
Q1725-05	SSSG-B14-3-04012	Air	Chloromethane	0.97	J	0.41	2.07	ug/m3
Q1725-05	SSSG-B14-3-04012	Air	Acetone	105	E	1.14	2.38	ug/m3
Q1725-05	SSSG-B14-3-04012	Air	Methylene Chloride	2.22	J	1.32	3.47	ug/m3
Q1725-05	SSSG-B14-3-04012	Air	2-Butanone	2.12	J	0.71	2.95	ug/m3
Q1725-05	SSSG-B14-3-04012	Air	Carbon Tetrachloride	0.44		0.13	0.38	ug/m3
Q1725-05	SSSG-B14-3-04012	Air	Chloroform	1.03	J	0.83	4.88	ug/m3
Q1725-05	SSSG-B14-3-04012	Air	Toluene	2.90	J	0.83	3.77	ug/m3
Q1725-05	SSSG-B14-3-04012	Air	Tetrachloroethene	0.54		0.20	0.41	ug/m3

Hit Summary Sheet
SW-846

SDG No.: Q1725

Client: Woodard & Curran

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Q1725-05	SSSG-B14-3-04012	Air	Ethyl Benzene	4.00	J	1.04	4.34	ug/m3
Q1725-05	SSSG-B14-3-04012	Air	m/p-Xylene	17.4		1.82	8.69	ug/m3
Q1725-05	SSSG-B14-3-04012	Air	o-Xylene	3.61	J	1.04	4.34	ug/m3
Q1725-05	SSSG-B14-3-04012	Air	Styrene	1.70	J	0.94	4.26	ug/m3
Q1725-05	SSSG-B14-3-04012	Air	Hexane	0.92	J	0.78	3.52	ug/m3
Total Voc :				145				
Q1725-05	SSSG-B14-3-04012	Air	Butanoic acid, 2-methyl-, ethyl *	2.10	J	0	0	ppbv
Q1725-05	SSSG-B14-3-04012	Air	Chlorodifluoromethane *	0.35	J	0.18	1.00	ppbv
Q1725-05	SSSG-B14-3-04012	Air	Propene *	0.92	J	0.30	1.00	ppbv
Total Tics :				3.37				
Total Concentration:				148				
Client ID:	SSSG-B14-3-04012025DL							
Q1725-05DL	SSSG-B14-3-04012	Air	Acetone	110	D	5.70	11.9	ug/m3
Q1725-05DL	SSSG-B14-3-04012	Air	m/p-Xylene	13.0	JD	9.12	43.4	ug/m3
Total Voc :				123				
Total Concentration:				123				
Client ID:	SSSG-B10-3-03312025							
Q1725-06	SSSG-B10-3-03312	Air	Chloromethane	1.34	J	0.81	4.13	ug/m3
Q1725-06	SSSG-B10-3-03312	Air	Tetrahydrofuran	2.86	J	1.53	5.90	ug/m3
Q1725-06	SSSG-B10-3-03312	Air	tert-Butyl alcohol	3.64	J	2.30	6.06	ug/m3
Q1725-06	SSSG-B10-3-03312	Air	Acetone	380	E	2.28	4.75	ug/m3
Q1725-06	SSSG-B10-3-03312	Air	Methylene Chloride	23.6		2.64	6.95	ug/m3
Q1725-06	SSSG-B10-3-03312	Air	2-Butanone	57.8		1.42	5.90	ug/m3
Q1725-06	SSSG-B10-3-03312	Air	Chloroform	6.84	J	1.61	9.77	ug/m3
Q1725-06	SSSG-B10-3-03312	Air	Toluene	1.81	J	1.66	7.54	ug/m3
Q1725-06	SSSG-B10-3-03312	Air	Tetrachloroethene	16.9		0.41	0.81	ug/m3
Q1725-06	SSSG-B10-3-03312	Air	Hexane	7.05		1.55	7.05	ug/m3
Total Voc :				502				
Q1725-06	SSSG-B10-3-03312	Air	unknown12.720 *	4.20	J	0	0	ppbv
Q1725-06	SSSG-B10-3-03312	Air	D-Limonene *	98.9	J	0	0	ppbv
Q1725-06	SSSG-B10-3-03312	Air	Butanoic acid, 2-methyl-, ethyl *	88.2	J	0	0	ppbv
Q1725-06	SSSG-B10-3-03312	Air	11H-Dibenzo[b,e][1,4]diazepin *	27.5	J	0	0	ppbv
Q1725-06	SSSG-B10-3-03312	Air	(Z,Z)-3,6-Nonadienal *	5.00	J	0	0	ppbv
Q1725-06	SSSG-B10-3-03312	Air	Propene *	3.20	J	0.60	2.00	ppbv
Total Tics :				227				
Total Concentration:				729				
Client ID:	SSSG-B10-3-03312025DL							
Q1725-06DL	SSSG-B10-3-03312	Air	Acetone	380	D	22.8	47.5	ug/m3

Hit Summary Sheet SW-846

SDG No.: Q1725

Client: Woodard & Curran

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Q1725-06DL	SSSG-B10-3-03312	Air	Methylene Chloride	45.9	JD	26.4	69.5	ug/m3
Q1725-06DL	SSSG-B10-3-03312	Air	2-Butanone	49.3	JD	14.2	59.0	ug/m3
Q1725-06DL	SSSG-B10-3-03312	Air	Tetrachloroethene	16.9	D	4.07	8.14	ug/m3
Total Voc :				492				
Total Concentration:				492				
Client ID:	SSSG-B10-1-03312025-SPLIT							
Q1725-07	SSSG-B10-1-03312	Air	Dichlorodifluoromethane	1.78	J	1.04	2.47	ug/m3
Q1725-07	SSSG-B10-1-03312	Air	Trichlorofluoromethane	1.35	J	0.90	2.81	ug/m3
Q1725-07	SSSG-B10-1-03312	Air	tert-Butyl alcohol	2.43		0.58	1.52	ug/m3
Q1725-07	SSSG-B10-1-03312	Air	Heptane	2.50		0.45	2.05	ug/m3
Q1725-07	SSSG-B10-1-03312	Air	Acetone	67.0	E	0.57	1.19	ug/m3
Q1725-07	SSSG-B10-1-03312	Air	Methylene Chloride	3.82		0.66	1.74	ug/m3
Q1725-07	SSSG-B10-1-03312	Air	2-Butanone	4.42		0.35	1.47	ug/m3
Q1725-07	SSSG-B10-1-03312	Air	Carbon Tetrachloride	0.57		0.060	0.19	ug/m3
Q1725-07	SSSG-B10-1-03312	Air	Chloroform	11.7		0.39	2.44	ug/m3
Q1725-07	SSSG-B10-1-03312	Air	1,1,1-Trichloroethane	0.16		0.050	0.16	ug/m3
Q1725-07	SSSG-B10-1-03312	Air	2,2,4-Trimethylpentane	1.35	J	0.47	2.34	ug/m3
Q1725-07	SSSG-B10-1-03312	Air	Benzene	1.57	J	0.29	1.60	ug/m3
Q1725-07	SSSG-B10-1-03312	Air	Trichloroethene	1.40		0.11	0.16	ug/m3
Q1725-07	SSSG-B10-1-03312	Air	Toluene	16.2		0.41	1.88	ug/m3
Q1725-07	SSSG-B10-1-03312	Air	Tetrachloroethene	5.09		0.14	0.20	ug/m3
Q1725-07	SSSG-B10-1-03312	Air	Ethyl Benzene	3.78		0.52	2.17	ug/m3
Q1725-07	SSSG-B10-1-03312	Air	m/p-Xylene	18.7		0.91	4.34	ug/m3
Q1725-07	SSSG-B10-1-03312	Air	o-Xylene	7.82		0.52	2.17	ug/m3
Q1725-07	SSSG-B10-1-03312	Air	1,3,5-Trimethylbenzene	2.16	J	0.54	2.46	ug/m3
Q1725-07	SSSG-B10-1-03312	Air	1,2,4-Trimethylbenzene	8.36		0.39	2.46	ug/m3
Q1725-07	SSSG-B10-1-03312	Air	1,3-Dichlorobenzene	0.96	J	0.48	3.01	ug/m3
Q1725-07	SSSG-B10-1-03312	Air	Hexane	3.52		0.39	1.76	ug/m3
Total Voc :				167				
Q1725-07	SSSG-B10-1-03312	Air	Pentane, 2-methyl-	* 1.60	J	0	0	ppbv
Q1725-07	SSSG-B10-1-03312	Air	1-Propene, 2-methyl-	* 2.70	J	0	0	ppbv
Q1725-07	SSSG-B10-1-03312	Air	Nonanal	* 2.80	J	0	0	ppbv
Q1725-07	SSSG-B10-1-03312	Air	Hexane, 3-methyl-	* 1.20	J	0	0	ppbv
Q1725-07	SSSG-B10-1-03312	Air	Benzene, 1-ethyl-2-methyl-	* 1.40	J	0	0	ppbv
Q1725-07	SSSG-B10-1-03312	Air	1-Hexene, 4-methyl-	* 1.30	J	0	0	ppbv
Q1725-07	SSSG-B10-1-03312	Air	Undecane, 4,6-dimethyl-	* 1.70	J	0	0	ppbv
Q1725-07	SSSG-B10-1-03312	Air	Chlorodifluoromethane	* 0.13	J	0.090	0.50	ppbv

Hit Summary Sheet
SW-846

SDG No.: Q1725

Client: Woodard & Curran

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Q1725-07	SSSG-B10-1-03312	Air	Propene	* 1.40	J	0.15	0.50	ppbv
Q1725-07	SSSG-B10-1-03312	Air	n-propylbenzene	* 0.23	J	0.080	0.50	ppbv
Total Tics :				14.5				
Total Concentration:				181				
Client ID:	SSSG-B10-1-03312025-SPLITDL							
Q1725-07DL	SSSG-B10-1-03312	Air	Acetone	76.0	D	5.70	11.9	ug/m3
Q1725-07DL	SSSG-B10-1-03312	Air	Methylene Chloride	9.73	JD	6.60	17.4	ug/m3
Q1725-07DL	SSSG-B10-1-03312	Air	2-Butanone	4.72	JD	3.54	14.8	ug/m3
Q1725-07DL	SSSG-B10-1-03312	Air	Chloroform	12.2	JD	4.05	24.4	ug/m3
Q1725-07DL	SSSG-B10-1-03312	Air	Toluene	11.7	JD	4.15	18.8	ug/m3
Q1725-07DL	SSSG-B10-1-03312	Air	Tetrachloroethene	4.95	D	1.02	2.03	ug/m3
Q1725-07DL	SSSG-B10-1-03312	Air	m/p-Xylene	10.9	JD	9.12	43.4	ug/m3
Q1725-07DL	SSSG-B10-1-03312	Air	o-Xylene	5.21	JD	5.21	21.7	ug/m3
Total Voc :				135				
Total Concentration:				135				
Client ID:	SSSG-B10-2-03312025							
Q1725-08	SSSG-B10-2-03312	Air	Chloromethane	0.93	J	0.81	4.13	ug/m3
Q1725-08	SSSG-B10-2-03312	Air	tert-Butyl alcohol	3.64	J	2.30	6.06	ug/m3
Q1725-08	SSSG-B10-2-03312	Air	Acetone	333	E	2.28	4.75	ug/m3
Q1725-08	SSSG-B10-2-03312	Air	Methylene Chloride	3.34	J	2.64	6.95	ug/m3
Q1725-08	SSSG-B10-2-03312	Air	2-Butanone	64.6		1.42	5.90	ug/m3
Q1725-08	SSSG-B10-2-03312	Air	Chloroform	7.33	J	1.61	9.77	ug/m3
Q1725-08	SSSG-B10-2-03312	Air	Benzene	1.47	J	1.12	6.39	ug/m3
Q1725-08	SSSG-B10-2-03312	Air	Toluene	6.78	J	1.66	7.54	ug/m3
Q1725-08	SSSG-B10-2-03312	Air	Tetrachloroethene	21.0		0.41	0.81	ug/m3
Q1725-08	SSSG-B10-2-03312	Air	Ethyl Benzene	2.26	J	2.08	8.69	ug/m3
Q1725-08	SSSG-B10-2-03312	Air	m/p-Xylene	8.25	J	3.65	17.4	ug/m3
Q1725-08	SSSG-B10-2-03312	Air	o-Xylene	3.61	J	2.08	8.69	ug/m3
Q1725-08	SSSG-B10-2-03312	Air	1,2,4-Trimethylbenzene	3.34	J	1.52	9.83	ug/m3
Q1725-08	SSSG-B10-2-03312	Air	Hexane	1.80	J	1.55	7.05	ug/m3
Total Voc :				461				
Q1725-08	SSSG-B10-2-03312	Air	D-Limonene	* 33.8	J	0	0	ppbv
Q1725-08	SSSG-B10-2-03312	Air	Butanoic acid, 2-methyl-, ethyl	* 29.6	J	0	0	ppbv
Q1725-08	SSSG-B10-2-03312	Air	Propene	* 7.50	J	0.60	2.00	ppbv
Total Tics :				70.9				
Total Concentration:				532				
Client ID:	SSSG-B10-2-03312025DL							
Q1725-08DL	SSSG-B10-2-03312	Air	Acetone	380	D	22.8	47.5	ug/m3

Hit Summary Sheet
SW-846

SDG No.: Q1725

Client: Woodard & Curran

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Q1725-08DL	SSSG-B10-2-03312	Air	2-Butanone	61.9	D	14.2	59.0	ug/m3
Q1725-08DL	SSSG-B10-2-03312	Air	Tetrachloroethene	20.3	D	4.07	8.14	ug/m3
Total Voc :				462				
Total Concentration:				462				

Project : US EPA Riverside Industrial Park Superfund Site

Sampling Date : 04/01/25

Field Id Number : SSSG-B1-2-04012025

Analysis Date : 04/07/25

Laboratory Id Number : Q1725-01

Target Analyts : Air Results

Chemical	Cas Number	Molecular Weight	Insert Results in PPBV	Qualifier	Generate Results in ug/m3	QAS Decision	Foot Notes
Dichlorodifluoromethane	75-71-8	120.9	0.4	J	1.98		
Chloromethane	74-87-3	50.49	0.1	U	0.21		
Vinyl Chloride	75-01-4	62.5	0.01	U	0.03		
Bromomethane	74-83-9	94.94	0.14	U	0.54		
Chloroethane	75-00-3	64.52	0.17	U	0.45		
Tetrahydrofuran	109-99-9	72.11	0.13	U	0.38		
Trichlorofluoromethane	75-69-4	137.4	0.21	J	1.18		
Dichlorotetrafluoroethane	76-14-2	170.9	0.09	U	0.63		
1,1,2-Trichlorotrifluoroethane	76-13-1	187.4	0.16	U	1.23		
tert-Butyl alcohol	75-65-0	74.12	0.19	U	0.58		
Heptane	142-82-5	100.2	0.12	J	0.49		
1,1-Dichloroethene	75-35-4	96.94	0.14	U	0.56		
Acetone	67-64-1	58.08	2.5		5.94		
Carbon Disulfide	75-15-0	76.14	0.16	U	0.5		
Methyl tert-Butyl Ether	1634-04-4	88.15	0.12	U	0.43		
Methylene Chloride	75-09-2	84.94	0.98		3.4		
trans-1,2-Dichloroethene	156-60-5	96.94	0.19	U	0.75		
1,1-Dichloroethane	75-34-3	98.96	0.13	U	0.53		
Cyclohexane	110-82-7	84.16	0.22	U	0.76		
2-Butanone	78-93-3	72.11	0.2	J	0.59		
Carbon Tetrachloride	56-23-5	153.8	0.07		0.44		
cis-1,2-Dichloroethene	156-59-2	96.94	0.09	U	0.36		
Chloroform	67-66-3	119.4	2		9.77		
1,1,1-Trichloroethane	71-55-6	133.4	0.01	U	0.05		
2,2,4-Trimethylpentane	540-84-1	114.2	0.1	U	0.47		
Benzene	71-43-2	78.11	0.14	J	0.45		
1,2-Dichloroethane	107-06-2	98.96	0.09	U	0.36		
Trichloroethene	79-01-6	131.4	0.07		0.38		
1,2-Dichloropropane	78-87-5	113	0.11	U	0.51		
Bromodichloromethane	75-27-4	163.8	0.08	U	0.54		
4-Methyl-2-Pentanone	108-10-1	100.2	0.09	U	0.37		
Toluene	108-88-3	92.14	2.1		7.91		
t-1,3-Dichloropropene	10061-02-6	111	0.06	U	0.27		
cis-1,3-Dichloropropene	10061-01-5	111	0.06	U	0.27		
1,1,2-Trichloroethane	79-00-5	133.4	0.07	U	0.38		

Project : US EPA Riverside Industrial Park Superfund Site

Sampling Date : 04/01/25

Field Id Number : SSSG-B1-2-04012025

Analysis Date : 04/07/25

Laboratory Id Number : Q1725-01

Target Analyts : Air Results

Dibromochloromethane	124-48-1	208.3	0.07	U	0.6		
1,2-Dibromoethane	106-93-4	187.9	0.07	U	0.54		
Tetrachloroethene	127-18-4	165.8	0.05		0.34		
Chlorobenzene	108-90-7	112.6	0.2	J	0.92		
Ethyl Benzene	100-41-4	106.2	0.28	J	1.22		
m/p-Xylene	179601-23-1	106.2	1.2		5.21		
o-Xylene	95-47-6	106.2	0.4	J	1.74		
Styrene	100-42-5	104.1	0.22	J	0.94		
Bromoform	75-25-2	252.8	0.06	U	0.62		
1,1,2,2-Tetrachloroethane	79-34-5	167.9	0.01	U	0.07		
2-Chlorotoluene	95-49-8	126.6	0.11	U	0.57		
1,3,5-Trimethylbenzene	108-67-8	120.2	0.11	U	0.54		
1,2,4-Trimethylbenzene	95-63-6	120.2	0.23	J	1.13		
1,3-Dichlorobenzene	541-73-1	147	0.08	U	0.48		
1,4-Dichlorobenzene	106-46-7	147	0.05	U	0.3		
1,2-Dichlorobenzene	95-50-1	147	0.08	U	0.48		
1,2,4-Trichlorobenzene	120-82-1	181.5	0.09	U	0.67		
Hexachloro-1,3-Butadiene	87-68-3	260.8	0.09	U	0.96		
Naphthalene	91-20-3	128.17	0.08	U	0.42		
1,3-Butadiene	106-99-0	54.09	0.13	U	0.29		
4-Ethyltoluene	622-96-8	120.2	0.12	U	0.59		
Hexane	110-54-3	86.17	0.31	J	1.09		
Allyl Chloride	107-05-1	76.53	0.15	U	0.47		
1,4-Dioxane	123-91-1	88.12	0.21	U	0.76		
Methyl Methacrylate	80-62-6	100.117	0.09	U	0.37		

Project : US EPA Riverside Industrial Park Superfund Site

Sampling Date : 04/01/25

Field Id Number : SSSG-B10-4-04012025

Analysis Date : 04/07/25

Laboratory Id Number : Q1725-02

Target Analyts : Air Results

Chemical	Cas Number	Molecular Weight	Insert Results in PPBV	Qualifier	Generate Results in ug/m3	QAS Decision	Foot Notes
Dichlorodifluoromethane	75-71-8	120.9	0.4	J	1.98		
Chloromethane	74-87-3	50.49	0.13	J	0.27		
Vinyl Chloride	75-01-4	62.5	0.01	U	0.03		
Bromomethane	74-83-9	94.94	0.14	U	0.54		
Chloroethane	75-00-3	64.52	0.17	U	0.45		
Tetrahydrofuran	109-99-9	72.11	0.13	U	0.38		
Trichlorofluoromethane	75-69-4	137.4	0.23	J	1.29		
Dichlorotetrafluoroethane	76-14-2	170.9	0.09	U	0.63		
1,1,2-Trichlorotrifluoroethane	76-13-1	187.4	0.16	U	1.23		
tert-Butyl alcohol	75-65-0	74.12	0.49	J	1.49		
Heptane	142-82-5	100.2	0.15	J	0.61		
1,1-Dichloroethene	75-35-4	96.94	1.6		6.34		
Acetone	67-64-1	58.08	31.3	E	74.4		
Carbon Disulfide	75-15-0	76.14	0.16	U	0.5		
Methyl tert-Butyl Ether	1634-04-4	88.15	0.12	U	0.43		
Methylene Chloride	75-09-2	84.94	0.67		2.33		
trans-1,2-Dichloroethene	156-60-5	96.94	0.19	U	0.75		
1,1-Dichloroethane	75-34-3	98.96	0.13	U	0.53		
Cyclohexane	110-82-7	84.16	0.22	U	0.76		
2-Butanone	78-93-3	72.11	0.69		2.04		
Carbon Tetrachloride	56-23-5	153.8	3.6		22.6		
cis-1,2-Dichloroethene	156-59-2	96.94	0.09	U	0.36		
Chloroform	67-66-3	119.4	120	E	586		
1,1,1-Trichloroethane	71-55-6	133.4	0.11		0.6		
2,2,4-Trimethylpentane	540-84-1	114.2	0.1	U	0.47		
Benzene	71-43-2	78.11	0.24	J	0.77		
1,2-Dichloroethane	107-06-2	98.96	0.09	U	0.36		
Trichloroethene	79-01-6	131.4	0.92		4.94		
1,2-Dichloropropane	78-87-5	113	0.11	U	0.51		
Bromodichloromethane	75-27-4	163.8	0.42	J	2.81		
4-Methyl-2-Pentanone	108-10-1	100.2	0.09	U	0.37		
Toluene	108-88-3	92.14	1.4		5.28		
t-1,3-Dichloropropene	10061-02-6	111	0.06	U	0.27		
cis-1,3-Dichloropropene	10061-01-5	111	0.06	U	0.27		
1,1,2-Trichloroethane	79-00-5	133.4	0.07	U	0.38		

Project : US EPA Riverside Industrial Park Superfund Site

Sampling Date : 04/01/25

Field Id Number : SSSG-B10-4-04012025

Analysis Date : 04/07/25

Laboratory Id Number : Q1725-02

Target Analyts : Air Results

Dibromochloromethane	124-48-1	208.3	0.07	U	0.6		
1,2-Dibromoethane	106-93-4	187.9	0.07	U	0.54		
Tetrachloroethene	127-18-4	165.8	3.1		21.0		
Chlorobenzene	108-90-7	112.6	0.16	J	0.74		
Ethyl Benzene	100-41-4	106.2	0.27	J	1.17		
m/p-Xylene	179601-23-1	106.2	1.1		4.78		
o-Xylene	95-47-6	106.2	0.39	J	1.69		
Styrene	100-42-5	104.1	0.34	J	1.45		
Bromoform	75-25-2	252.8	0.06	U	0.62		
1,1,2,2-Tetrachloroethane	79-34-5	167.9	0.01	U	0.07		
2-Chlorotoluene	95-49-8	126.6	0.11	U	0.57		
1,3,5-Trimethylbenzene	108-67-8	120.2	0.11	U	0.54		
1,2,4-Trimethylbenzene	95-63-6	120.2	0.38	J	1.87		
1,3-Dichlorobenzene	541-73-1	147	0.08	U	0.48		
1,4-Dichlorobenzene	106-46-7	147	0.05	U	0.3		
1,2-Dichlorobenzene	95-50-1	147	0.08	U	0.48		
1,2,4-Trichlorobenzene	120-82-1	181.5	0.09	U	0.67		
Hexachloro-1,3-Butadiene	87-68-3	260.8	0.09	U	0.96		
Naphthalene	91-20-3	128.17	0.08	U	0.42		
1,3-Butadiene	106-99-0	54.09	0.13	U	0.29		
4-Ethyltoluene	622-96-8	120.2	0.12	U	0.59		
Hexane	110-54-3	86.17	0.45	J	1.59		
Allyl Chloride	107-05-1	76.53	0.15	U	0.47		
1,4-Dioxane	123-91-1	88.12	0.21	U	0.76		
Methyl Methacrylate	80-62-6	100.117	0.09	U	0.37		

Project : US EPA Riverside Industrial Park Superfund Site

Sampling Date : 04/01/25

Field Id Number : SSSG-B10-4-04012025D

Analysis Date : 04/07/25

Laboratory Id Number : Q1725-02DL

Target Analyts : Air Results

Chemical	Cas Number	Molecular Weight	Insert Results in PPBV	Qualifier	Generate Results in ug/m3	QAS Decision	Foot Notes
Dichlorodifluoromethane	75-71-8	120.9	2.1	UD	10.4		
Chloromethane	74-87-3	50.49	0.98	UD	2.02		
Vinyl Chloride	75-01-4	62.5	0.14	UD	0.36		
Bromomethane	74-83-9	94.94	1.4	UD	5.44		
Chloroethane	75-00-3	64.52	1.7	UD	4.49		
Tetrahydrofuran	109-99-9	72.11	1.3	UD	3.83		
Trichlorofluoromethane	75-69-4	137.4	1.6	UD	8.99		
Dichlorotetrafluoroethane	76-14-2	170.9	0.88	UD	6.15		
1,1,2-Trichlorotrifluoroethane	76-13-1	187.4	1.6	UD	12.3		
tert-Butyl alcohol	75-65-0	74.12	1.9	UD	5.76		
Heptane	142-82-5	100.2	1.1	UD	4.51		
1,1-Dichloroethene	75-35-4	96.94	1.6	JD	6.34		
Acetone	67-64-1	58.08	33.9	D	80.5		
Carbon Disulfide	75-15-0	76.14	1.6	UD	4.98		
Methyl tert-Butyl Ether	1634-04-4	88.15	1.2	UD	4.33		
Methylene Chloride	75-09-2	84.94	2.5	JD	8.69		
trans-1,2-Dichloroethene	156-60-5	96.94	1.9	UD	7.53		
1,1-Dichloroethane	75-34-3	98.96	1.3	UD	5.26		
Cyclohexane	110-82-7	84.16	2.2	UD	7.57		
2-Butanone	78-93-3	72.11	1.2	UD	3.54		
Carbon Tetrachloride	56-23-5	153.8	3.3	D	20.8		
cis-1,2-Dichloroethene	156-59-2	96.94	0.89	UD	3.53		
Chloroform	67-66-3	119.4	400	ED	1953		
1,1,1-Trichloroethane	71-55-6	133.4	0.1	UD	0.55		
2,2,4-Trimethylpentane	540-84-1	114.2	1	UD	4.67		
Benzene	71-43-2	78.11	0.87	UD	2.78		
1,2-Dichloroethane	107-06-2	98.96	0.91	UD	3.68		
Trichloroethene	79-01-6	131.4	0.98	D	5.27		
1,2-Dichloropropane	78-87-5	113	1.1	UD	5.08		
Bromodichloromethane	75-27-4	163.8	0.77	UD	5.16		
4-Methyl-2-Pentanone	108-10-1	100.2	0.93	UD	3.81		
Toluene	108-88-3	92.14	1.2	JD	4.52		
t-1,3-Dichloropropene	10061-02-6	111	0.6	UD	2.72		
cis-1,3-Dichloropropene	10061-01-5	111	0.64	UD	2.91		
1,1,2-Trichloroethane	79-00-5	133.4	0.71	UD	3.87		

Project : US EPA Riverside Industrial Park Superfund Site

Sampling Date : 04/01/25

Field Id Number : SSSG-B10-4-04012025D

Analysis Date : 04/07/25

Laboratory Id Number : Q1725-02DL

Target Analyts : Air Results

Dibromochloromethane	124-48-1	208.3	0.66	UD	5.62		
1,2-Dibromoethane	106-93-4	187.9	0.72	UD	5.53		
Tetrachloroethene	127-18-4	165.8	2.9	D	19.7		
Chlorobenzene	108-90-7	112.6	0.76	UD	3.5		
Ethyl Benzene	100-41-4	106.2	1.2	UD	5.21		
m/p-Xylene	179601-23-1	106.2	2.1	UD	9.12		
o-Xylene	95-47-6	106.2	1.2	UD	5.21		
Styrene	100-42-5	104.1	1.1	UD	4.68		
Bromoform	75-25-2	252.8	0.57	UD	5.89		
1,1,2,2-Tetrachloroethane	79-34-5	167.9	0.11	UD	0.76		
2-Chlorotoluene	95-49-8	126.6	1.1	UD	5.7		
1,3,5-Trimethylbenzene	108-67-8	120.2	1.1	UD	5.41		
1,2,4-Trimethylbenzene	95-63-6	120.2	0.78	UD	3.83		
1,3-Dichlorobenzene	541-73-1	147	0.8	UD	4.81		
1,4-Dichlorobenzene	106-46-7	147	0.53	UD	3.19		
1,2-Dichlorobenzene	95-50-1	147	0.75	UD	4.51		
1,2,4-Trichlorobenzene	120-82-1	181.5	0.85	UD	6.31		
Hexachloro-1,3-Butadiene	87-68-3	260.8	0.85	UD	9.07		
Naphthalene	91-20-3	128.17	0.75	UD	3.93		
1,3-Butadiene	106-99-0	54.09	1.3	UD	2.88		
4-Ethyltoluene	622-96-8	120.2	1.2	UD	5.9		
Hexane	110-54-3	86.17	1.1	UD	3.88		
Allyl Chloride	107-05-1	76.53	1.5	UD	4.7		
1,4-Dioxane	123-91-1	88.12	2.1	UD	7.57		
Methyl Methacrylate	80-62-6	100.117	0.86	UD	3.52		

Project : US EPA Riverside Industrial Park Superfund Site

Sampling Date : 04/01/25

Field Id Number : SSSG-B10-4-04012025D

Analysis Date : 04/07/25

Laboratory Id Number : Q1725-02DL2

Target Analyts : Air Results

Chemical	Cas Number	Molecular Weight	Insert Results in PPBV	Qualifier	Generate Results in ug/m3	QAS Decision	Foot Notes
Dichlorodifluoromethane	75-71-8	120.9	8.4	UD	41.5		
Chloromethane	74-87-3	50.49	3.9	UD	8.05		
Vinyl Chloride	75-01-4	62.5	0.56	UD	1.43		
Bromomethane	74-83-9	94.94	5.6	UD	21.7		
Chloroethane	75-00-3	64.52	6.8	UD	17.9		
Tetrahydrofuran	109-99-9	72.11	5.2	UD	15.3		
Trichlorofluoromethane	75-69-4	137.4	6.4	UD	36.0		
Dichlorotetrafluoroethane	76-14-2	170.9	3.5	UD	24.5		
1,1,2-Trichlorotrifluoroethane	76-13-1	187.4	6.4	UD	49.0		
tert-Butyl alcohol	75-65-0	74.12	7.6	UD	23.0		
Heptane	142-82-5	100.2	4.4	UD	18.0		
1,1-Dichloroethene	75-35-4	96.94	5.6	UD	22.2		
Acetone	67-64-1	58.08	42.5	D	100		
Carbon Disulfide	75-15-0	76.14	6.4	UD	19.9		
Methyl tert-Butyl Ether	1634-04-4	88.15	4.8	UD	17.3		
Methylene Chloride	75-09-2	84.94	7.6	UD	26.4		
trans-1,2-Dichloroethene	156-60-5	96.94	7.6	UD	30.1		
1,1-Dichloroethane	75-34-3	98.96	5.2	UD	21.0		
Cyclohexane	110-82-7	84.16	8.8	UD	30.3		
2-Butanone	78-93-3	72.11	4.8	UD	14.2		
Carbon Tetrachloride	56-23-5	153.8	0.44	UD	2.77		
cis-1,2-Dichloroethene	156-59-2	96.94	3.6	UD	14.3		
Chloroform	67-66-3	119.4	480	D	2344		
1,1,1-Trichloroethane	71-55-6	133.4	0.38	UD	2.07		
2,2,4-Trimethylpentane	540-84-1	114.2	4	UD	18.7		
Benzene	71-43-2	78.11	3.5	UD	11.2		
1,2-Dichloroethane	107-06-2	98.96	3.6	UD	14.6		
Trichloroethene	79-01-6	131.4	0.68	UD	3.65		
1,2-Dichloropropane	78-87-5	113	4.4	UD	20.3		
Bromodichloromethane	75-27-4	163.8	3.1	UD	20.8		
4-Methyl-2-Pentanone	108-10-1	100.2	3.7	UD	15.2		
Toluene	108-88-3	92.14	4.4	UD	16.6		
t-1,3-Dichloropropene	10061-02-6	111	2.4	UD	10.9		
cis-1,3-Dichloropropene	10061-01-5	111	2.6	UD	11.8		
1,1,2-Trichloroethane	79-00-5	133.4	2.8	UD	15.3		

Project : US EPA Riverside Industrial Park Superfund Site

Sampling Date : 04/01/25

Field Id Number : SSSG-B10-4-04012025D

Analysis Date : 04/07/25

Laboratory Id Number : Q1725-02DL2

Target Analyts : Air Results

Dibromochloromethane	124-48-1	208.3	2.6	UD	22.2		
1,2-Dibromoethane	106-93-4	187.9	2.9	UD	22.3		
Tetrachloroethene	127-18-4	165.8	0.6	UD	4.07		
Chlorobenzene	108-90-7	112.6	3	UD	13.8		
Ethyl Benzene	100-41-4	106.2	4.8	UD	20.8		
m/p-Xylene	179601-23-1	106.2	8.4	UD	36.5		
o-Xylene	95-47-6	106.2	4.8	UD	20.8		
Styrene	100-42-5	104.1	4.4	UD	18.7		
Bromoform	75-25-2	252.8	2.3	UD	23.8		
1,1,2,2-Tetrachloroethane	79-34-5	167.9	0.44	UD	3.02		
2-Chlorotoluene	95-49-8	126.6	4.4	UD	22.8		
1,3,5-Trimethylbenzene	108-67-8	120.2	4.4	UD	21.6		
1,2,4-Trimethylbenzene	95-63-6	120.2	3.1	UD	15.2		
1,3-Dichlorobenzene	541-73-1	147	3.2	UD	19.2		
1,4-Dichlorobenzene	106-46-7	147	2.1	UD	12.6		
1,2-Dichlorobenzene	95-50-1	147	3	UD	18.0		
1,2,4-Trichlorobenzene	120-82-1	181.5	3.4	UD	25.2		
Hexachloro-1,3-Butadiene	87-68-3	260.8	3.4	UD	36.3		
Naphthalene	91-20-3	128.17	3	UD	15.7		
1,3-Butadiene	106-99-0	54.09	5.2	UD	11.5		
4-Ethyltoluene	622-96-8	120.2	4.8	UD	23.6		
Hexane	110-54-3	86.17	4.4	UD	15.5		
Allyl Chloride	107-05-1	76.53	6	UD	18.8		
1,4-Dioxane	123-91-1	88.12	8.4	UD	30.3		
Methyl Methacrylate	80-62-6	100.117	3.4	UD	13.9		

Project : US EPA Riverside Industrial Park Superfund Site

Sampling Date : 04/01/25

Field Id Number : SSSG-DUP-2-04012025

Analysis Date : 04/08/25

Laboratory Id Number : Q1725-03

Target Analyts : Air Results

Chemical	Cas Number	Molecular Weight	Insert Results in PPBV	Qualifier	Generate Results in ug/m3	QAS Decision	Foot Notes
Dichlorodifluoromethane	75-71-8	120.9	0.37	J	1.83		
Chloromethane	74-87-3	50.49	0.41	J	0.85		
Vinyl Chloride	75-01-4	62.5	0.01	U	0.03		
Bromomethane	74-83-9	94.94	0.14	U	0.54		
Chloroethane	75-00-3	64.52	0.17	U	0.45		
Tetrahydrofuran	109-99-9	72.11	0.13	U	0.38		
Trichlorofluoromethane	75-69-4	137.4	0.2	J	1.12		
Dichlorotetrafluoroethane	76-14-2	170.9	0.09	U	0.63		
1,1,2-Trichlorotrifluoroethane	76-13-1	187.4	0.16	U	1.23		
tert-Butyl alcohol	75-65-0	74.12	0.19	U	0.58		
Heptane	142-82-5	100.2	0.11	U	0.45		
1,1-Dichloroethene	75-35-4	96.94	0.14	U	0.56		
Acetone	67-64-1	58.08	38.5	E	91.5		
Carbon Disulfide	75-15-0	76.14	0.16	U	0.5		
Methyl tert-Butyl Ether	1634-04-4	88.15	0.12	U	0.43		
Methylene Chloride	75-09-2	84.94	0.63		2.19		
trans-1,2-Dichloroethene	156-60-5	96.94	0.19	U	0.75		
1,1-Dichloroethane	75-34-3	98.96	0.13	U	0.53		
Cyclohexane	110-82-7	84.16	0.22	U	0.76		
2-Butanone	78-93-3	72.11	0.44	J	1.3		
Carbon Tetrachloride	56-23-5	153.8	0.08		0.5		
cis-1,2-Dichloroethene	156-59-2	96.94	0.09	U	0.36		
Chloroform	67-66-3	119.4	0.39	J	1.9		
1,1,1-Trichloroethane	71-55-6	133.4	0.01	U	0.05		
2,2,4-Trimethylpentane	540-84-1	114.2	0.1	U	0.47		
Benzene	71-43-2	78.11	0.16	J	0.51		
1,2-Dichloroethane	107-06-2	98.96	0.09	U	0.36		
Trichloroethene	79-01-6	131.4	0.05		0.27		
1,2-Dichloropropane	78-87-5	113	0.11	U	0.51		
Bromodichloromethane	75-27-4	163.8	0.08	U	0.54		
4-Methyl-2-Pentanone	108-10-1	100.2	0.09	U	0.37		
Toluene	108-88-3	92.14	0.72		2.71		
t-1,3-Dichloropropene	10061-02-6	111	0.06	U	0.27		
cis-1,3-Dichloropropene	10061-01-5	111	0.06	U	0.27		
1,1,2-Trichloroethane	79-00-5	133.4	0.07	U	0.38		

Project : US EPA Riverside Industrial Park Superfund Site

Sampling Date : 04/01/25

Field Id Number : SSSG-DUP-2-04012025

Analysis Date : 04/08/25

Laboratory Id Number : Q1725-03

Target Analyts : Air Results

Dibromochloromethane	124-48-1	208.3	0.07	U	0.6		
1,2-Dibromoethane	106-93-4	187.9	0.07	U	0.54		
Tetrachloroethene	127-18-4	165.8	0.08		0.54		
Chlorobenzene	108-90-7	112.6	0.08	U	0.37		
Ethyl Benzene	100-41-4	106.2	1.3		5.65		
m/p-Xylene	179601-23-1	106.2	6.3		27.4		
o-Xylene	95-47-6	106.2	1.2		5.21		
Styrene	100-42-5	104.1	0.35	J	1.49		
Bromoform	75-25-2	252.8	0.06	U	0.62		
1,1,2,2-Tetrachloroethane	79-34-5	167.9	0.01	U	0.07		
2-Chlorotoluene	95-49-8	126.6	0.11	U	0.57		
1,3,5-Trimethylbenzene	108-67-8	120.2	0.13	J	0.64		
1,2,4-Trimethylbenzene	95-63-6	120.2	0.36	J	1.77		
1,3-Dichlorobenzene	541-73-1	147	0.08	U	0.48		
1,4-Dichlorobenzene	106-46-7	147	0.05	U	0.3		
1,2-Dichlorobenzene	95-50-1	147	0.08	U	0.48		
1,2,4-Trichlorobenzene	120-82-1	181.5	0.09	U	0.67		
Hexachloro-1,3-Butadiene	87-68-3	260.8	0.09	U	0.96		
Naphthalene	91-20-3	128.17	0.08	U	0.42		
1,3-Butadiene	106-99-0	54.09	0.13	U	0.29		
4-Ethyltoluene	622-96-8	120.2	0.12	U	0.59		
Hexane	110-54-3	86.17	0.28	J	0.99		
Allyl Chloride	107-05-1	76.53	0.15	U	0.47		
1,4-Dioxane	123-91-1	88.12	0.21	U	0.76		
Methyl Methacrylate	80-62-6	100.117	0.09	U	0.37		

Project : US EPA Riverside Industrial Park Superfund Site

Sampling Date : 04/01/25

Field Id Number : SSSG-DUP-2-04012025I

Analysis Date : 04/07/25

Laboratory Id Number : Q1725-03DL

Target Analyts : Air Results

Chemical	Cas Number	Molecular Weight	Insert Results in PPBV	Qualifier	Generate Results in ug/m3	QAS Decision	Foot Notes
Dichlorodifluoromethane	75-71-8	120.9	0.84	UD	4.15		
Chloromethane	74-87-3	50.49	0.53	JD	1.09		
Vinyl Chloride	75-01-4	62.5	0.06	UD	0.15		
Bromomethane	74-83-9	94.94	0.56	UD	2.17		
Chloroethane	75-00-3	64.52	0.68	UD	1.79		
Tetrahydrofuran	109-99-9	72.11	0.52	UD	1.53		
Trichlorofluoromethane	75-69-4	137.4	0.64	UD	3.6		
Dichlorotetrafluoroethane	76-14-2	170.9	0.35	UD	2.45		
1,1,2-Trichlorotrifluoroethane	76-13-1	187.4	0.64	UD	4.91		
tert-Butyl alcohol	75-65-0	74.12	0.76	UD	2.3		
Heptane	142-82-5	100.2	0.44	UD	1.8		
1,1-Dichloroethene	75-35-4	96.94	0.56	UD	2.22		
Acetone	67-64-1	58.08	43.7	D	103		
Carbon Disulfide	75-15-0	76.14	0.64	UD	1.99		
Methyl tert-Butyl Ether	1634-04-4	88.15	0.48	UD	1.73		
Methylene Chloride	75-09-2	84.94	1.2	JD	4.17		
trans-1,2-Dichloroethene	156-60-5	96.94	0.76	UD	3.01		
1,1-Dichloroethane	75-34-3	98.96	0.52	UD	2.1		
Cyclohexane	110-82-7	84.16	0.88	UD	3.03		
2-Butanone	78-93-3	72.11	0.48	UD	1.42		
Carbon Tetrachloride	56-23-5	153.8	0.04	UD	0.25		
cis-1,2-Dichloroethene	156-59-2	96.94	0.36	UD	1.43		
Chloroform	67-66-3	119.4	0.43	JD	2.1		
1,1,1-Trichloroethane	71-55-6	133.4	0.04	UD	0.22		
2,2,4-Trimethylpentane	540-84-1	114.2	0.4	UD	1.87		
Benzene	71-43-2	78.11	0.35	UD	1.12		
1,2-Dichloroethane	107-06-2	98.96	0.36	UD	1.46		
Trichloroethene	79-01-6	131.4	0.07	UD	0.38		
1,2-Dichloropropane	78-87-5	113	0.44	UD	2.03		
Bromodichloromethane	75-27-4	163.8	0.31	UD	2.08		
4-Methyl-2-Pentanone	108-10-1	100.2	0.37	UD	1.52		
Toluene	108-88-3	92.14	0.61	JD	2.3		
t-1,3-Dichloropropene	10061-02-6	111	0.24	UD	1.09		
cis-1,3-Dichloropropene	10061-01-5	111	0.26	UD	1.18		
1,1,2-Trichloroethane	79-00-5	133.4	0.28	UD	1.53		

Project : US EPA Riverside Industrial Park Superfund Site

Sampling Date : 04/01/25

Field Id Number : SSSG-DUP-2-04012025I

Analysis Date : 04/07/25

Laboratory Id Number : Q1725-03DL

Target Analyts : Air Results

Dibromochloromethane	124-48-1	208.3	0.26	UD	2.22		
1,2-Dibromoethane	106-93-4	187.9	0.29	UD	2.23		
Tetrachloroethene	127-18-4	165.8	0.06	UD	0.41		
Chlorobenzene	108-90-7	112.6	0.3	UD	1.38		
Ethyl Benzene	100-41-4	106.2	1	JD	4.34		
m/p-Xylene	179601-23-1	106.2	4.2	D	18.2		
o-Xylene	95-47-6	106.2	0.84	JD	3.65		
Styrene	100-42-5	104.1	0.44	UD	1.87		
Bromoform	75-25-2	252.8	0.23	UD	2.38		
1,1,2,2-Tetrachloroethane	79-34-5	167.9	0.04	UD	0.27		
2-Chlorotoluene	95-49-8	126.6	0.44	UD	2.28		
1,3,5-Trimethylbenzene	108-67-8	120.2	0.44	UD	2.16		
1,2,4-Trimethylbenzene	95-63-6	120.2	0.31	UD	1.52		
1,3-Dichlorobenzene	541-73-1	147	0.32	UD	1.92		
1,4-Dichlorobenzene	106-46-7	147	0.21	UD	1.26		
1,2-Dichlorobenzene	95-50-1	147	0.3	UD	1.8		
1,2,4-Trichlorobenzene	120-82-1	181.5	0.34	UD	2.52		
Hexachloro-1,3-Butadiene	87-68-3	260.8	0.34	UD	3.63		
Naphthalene	91-20-3	128.17	0.3	UD	1.57		
1,3-Butadiene	106-99-0	54.09	0.52	UD	1.15		
4-Ethyltoluene	622-96-8	120.2	0.48	UD	2.36		
Hexane	110-54-3	86.17	0.44	UD	1.55		
Allyl Chloride	107-05-1	76.53	0.6	UD	1.88		
1,4-Dioxane	123-91-1	88.12	0.84	UD	3.03		
Methyl Methacrylate	80-62-6	100.117	0.34	UD	1.39		

Project : US EPA Riverside Industrial Park Superfund Site

Sampling Date : 04/01/25

Field Id Number : AA-1-03312025

Analysis Date : 04/07/25

Laboratory Id Number : Q1725-04

Target Analyts : Air Results

Chemical	Cas Number	Molecular Weight	Insert Results in PPBV	Qualifier	Generate Results in ug/m3	QAS Decision	Foot Notes
Dichlorodifluoromethane	75-71-8	120.9	0.4	J	1.98		
Chloromethane	74-87-3	50.49	0.58		1.2		
Vinyl Chloride	75-01-4	62.5	0.01	U	0.03		
Bromomethane	74-83-9	94.94	0.14	U	0.54		
Chloroethane	75-00-3	64.52	0.17	U	0.45		
Tetrahydrofuran	109-99-9	72.11	0.13	U	0.38		
Trichlorofluoromethane	75-69-4	137.4	0.21	J	1.18		
Dichlorotetrafluoroethane	76-14-2	170.9	0.09	U	0.63		
1,1,2-Trichlorotrifluoroethane	76-13-1	187.4	0.16	U	1.23		
tert-Butyl alcohol	75-65-0	74.12	0.19	U	0.58		
Heptane	142-82-5	100.2	0.11	J	0.45		
1,1-Dichloroethene	75-35-4	96.94	0.14	U	0.56		
Acetone	67-64-1	58.08	5.1		12.1		
Carbon Disulfide	75-15-0	76.14	0.16	U	0.5		
Methyl tert-Butyl Ether	1634-04-4	88.15	0.12	U	0.43		
Methylene Chloride	75-09-2	84.94	0.4	J	1.39		
trans-1,2-Dichloroethene	156-60-5	96.94	0.19	U	0.75		
1,1-Dichloroethane	75-34-3	98.96	0.13	U	0.53		
Cyclohexane	110-82-7	84.16	0.22	U	0.76		
2-Butanone	78-93-3	72.11	0.53		1.56		
Carbon Tetrachloride	56-23-5	153.8	0.07		0.44		
cis-1,2-Dichloroethene	156-59-2	96.94	0.09	U	0.36		
Chloroform	67-66-3	119.4	0.08	U	0.39		
1,1,1-Trichloroethane	71-55-6	133.4	0.01	U	0.05		
2,2,4-Trimethylpentane	540-84-1	114.2	0.1	U	0.47		
Benzene	71-43-2	78.11	0.14	J	0.45		
1,2-Dichloroethane	107-06-2	98.96	0.09	U	0.36		
Trichloroethene	79-01-6	131.4	0.02	U	0.11		
1,2-Dichloropropane	78-87-5	113	0.11	U	0.51		
Bromodichloromethane	75-27-4	163.8	0.08	U	0.54		
4-Methyl-2-Pentanone	108-10-1	100.2	0.13	J	0.53		
Toluene	108-88-3	92.14	0.61		2.3		
t-1,3-Dichloropropene	10061-02-6	111	0.06	U	0.27		
cis-1,3-Dichloropropene	10061-01-5	111	0.06	U	0.27		
1,1,2-Trichloroethane	79-00-5	133.4	0.07	U	0.38		

Project : US EPA Riverside Industrial Park Superfund Site

Sampling Date : 04/01/25

Field Id Number : AA-1-03312025

Analysis Date : 04/07/25

Laboratory Id Number : Q1725-04

Target Analyts : Air Results

Dibromochloromethane	124-48-1	208.3	0.07	U	0.6		
1,2-Dibromoethane	106-93-4	187.9	0.07	U	0.54		
Tetrachloroethene	127-18-4	165.8	0.02	U	0.14		
Chlorobenzene	108-90-7	112.6	0.08	U	0.37		
Ethyl Benzene	100-41-4	106.2	0.12	U	0.52		
m/p-Xylene	179601-23-1	106.2	0.22	J	0.96		
o-Xylene	95-47-6	106.2	0.12	U	0.52		
Styrene	100-42-5	104.1	0.11	U	0.47		
Bromoform	75-25-2	252.8	0.06	U	0.62		
1,1,2,2-Tetrachloroethane	79-34-5	167.9	0.01	U	0.07		
2-Chlorotoluene	95-49-8	126.6	0.11	U	0.57		
1,3,5-Trimethylbenzene	108-67-8	120.2	0.11	U	0.54		
1,2,4-Trimethylbenzene	95-63-6	120.2	0.08	U	0.39		
1,3-Dichlorobenzene	541-73-1	147	0.08	U	0.48		
1,4-Dichlorobenzene	106-46-7	147	0.05	U	0.3		
1,2-Dichlorobenzene	95-50-1	147	0.08	U	0.48		
1,2,4-Trichlorobenzene	120-82-1	181.5	0.09	U	0.67		
Hexachloro-1,3-Butadiene	87-68-3	260.8	0.09	U	0.96		
1,3-Butadiene	106-99-0	54.09	0.13	U	0.29		
Naphthalene	91-20-3	128.17	0.08	U	0.42		
4-Ethyltoluene	622-96-8	120.2	0.12	U	0.59		
Hexane	110-54-3	86.17	0.33	J	1.16		
Allyl Chloride	107-05-1	76.53	0.15	U	0.47		
1,4-Dioxane	123-91-1	88.12	0.21	U	0.76		
Methyl Methacrylate	80-62-6	100.117	0.09	U	0.37		

Project : US EPA Riverside Industrial Park Superfund Site

Sampling Date : 04/01/25

Field Id Number : SSSG-B14-3-04012025

Analysis Date : 04/07/25

Laboratory Id Number : Q1725-05

Target Analyts : Air Results

Chemical	Cas Number	Molecular Weight	Insert Results in PPBV	Qualifier	Generate Results in ug/m3	QAS Decision	Foot Notes
Dichlorodifluoromethane	75-71-8	120.9	0.46	J	2.27		
Chloromethane	74-87-3	50.49	0.47	J	0.97		
Vinyl Chloride	75-01-4	62.5	0.03	U	0.08		
Bromomethane	74-83-9	94.94	0.28	U	1.09		
Chloroethane	75-00-3	64.52	0.34	U	0.9		
Tetrahydrofuran	109-99-9	72.11	0.26	U	0.77		
Trichlorofluoromethane	75-69-4	137.4	0.32	U	1.8		
Dichlorotetrafluoroethane	76-14-2	170.9	0.18	U	1.26		
1,1,2-Trichlorotrifluoroethane	76-13-1	187.4	0.32	U	2.45		
tert-Butyl alcohol	75-65-0	74.12	0.38	U	1.15		
Heptane	142-82-5	100.2	0.22	U	0.9		
1,1-Dichloroethene	75-35-4	96.94	0.28	U	1.11		
Acetone	67-64-1	58.08	44.2	E	105		
Carbon Disulfide	75-15-0	76.14	0.32	U	1		
Methyl tert-Butyl Ether	1634-04-4	88.15	0.24	U	0.87		
Methylene Chloride	75-09-2	84.94	0.64	J	2.22		
trans-1,2-Dichloroethene	156-60-5	96.94	0.38	U	1.51		
1,1-Dichloroethane	75-34-3	98.96	0.26	U	1.05		
Cyclohexane	110-82-7	84.16	0.44	U	1.51		
2-Butanone	78-93-3	72.11	0.72	J	2.12		
Carbon Tetrachloride	56-23-5	153.8	0.07		0.44		
cis-1,2-Dichloroethene	156-59-2	96.94	0.18	U	0.71		
Chloroform	67-66-3	119.4	0.21	J	1.03		
1,1,1-Trichloroethane	71-55-6	133.4	0.02	U	0.11		
2,2,4-Trimethylpentane	540-84-1	114.2	0.2	U	0.93		
Benzene	71-43-2	78.11	0.17	U	0.54		
1,2-Dichloroethane	107-06-2	98.96	0.18	U	0.73		
Trichloroethene	79-01-6	131.4	0.03	U	0.16		
1,2-Dichloropropane	78-87-5	113	0.22	U	1.02		
Bromodichloromethane	75-27-4	163.8	0.15	U	1		
4-Methyl-2-Pentanone	108-10-1	100.2	0.19	U	0.78		
Toluene	108-88-3	92.14	0.77	J	2.9		
t-1,3-Dichloropropene	10061-02-6	111	0.12	U	0.54		
cis-1,3-Dichloropropene	10061-01-5	111	0.13	U	0.59		
1,1,2-Trichloroethane	79-00-5	133.4	0.14	U	0.76		

Project : US EPA Riverside Industrial Park Superfund Site

Sampling Date : 04/01/25

Field Id Number : SSSG-B14-3-04012025

Analysis Date : 04/07/25

Laboratory Id Number : Q1725-05

Target Analyts : Air Results

Dibromochloromethane	124-48-1	208.3	0.13	U	1.11		
1,2-Dibromoethane	106-93-4	187.9	0.14	U	1.08		
Tetrachloroethene	127-18-4	165.8	0.08		0.54		
Chlorobenzene	108-90-7	112.6	0.15	U	0.69		
Ethyl Benzene	100-41-4	106.2	0.92	J	4		
m/p-Xylene	179601-23-1	106.2	4		17.4		
o-Xylene	95-47-6	106.2	0.83	J	3.61		
Styrene	100-42-5	104.1	0.4	J	1.7		
Bromoform	75-25-2	252.8	0.11	U	1.14		
1,1,2,2-Tetrachloroethane	79-34-5	167.9	0.02	U	0.14		
2-Chlorotoluene	95-49-8	126.6	0.22	U	1.14		
1,3,5-Trimethylbenzene	108-67-8	120.2	0.22	U	1.08		
1,2,4-Trimethylbenzene	95-63-6	120.2	0.16	U	0.79		
1,3-Dichlorobenzene	541-73-1	147	0.16	U	0.96		
1,4-Dichlorobenzene	106-46-7	147	0.11	U	0.66		
1,2-Dichlorobenzene	95-50-1	147	0.15	U	0.9		
1,2,4-Trichlorobenzene	120-82-1	181.5	0.17	U	1.26		
Hexachloro-1,3-Butadiene	87-68-3	260.8	0.17	U	1.81		
Naphthalene	91-20-3	128.17	0.15	U	0.79		
1,3-Butadiene	106-99-0	54.09	0.26	U	0.58		
4-Ethyltoluene	622-96-8	120.2	0.24	U	1.18		
Hexane	110-54-3	86.17	0.26	J	0.92		
Allyl Chloride	107-05-1	76.53	0.3	U	0.94		
1,4-Dioxane	123-91-1	88.12	0.42	U	1.51		
Methyl Methacrylate	80-62-6	100.117	0.17	U	0.7		

Project : US EPA Riverside Industrial Park Superfund Site

Sampling Date : 04/01/25

Field Id Number : SSSG-B14-3-04012025D

Analysis Date : 04/07/25

Laboratory Id Number : Q1725-05DL

Target Analyts : Air Results

Chemical	Cas Number	Molecular Weight	Insert Results in PPBV	Qualifier	Generate Results in ug/m3	QAS Decision	Foot Notes
Dichlorodifluoromethane	75-71-8	120.9	2.1	UD	10.4		
Chloromethane	74-87-3	50.49	0.98	UD	2.02		
Vinyl Chloride	75-01-4	62.5	0.14	UD	0.36		
Bromomethane	74-83-9	94.94	1.4	UD	5.44		
Chloroethane	75-00-3	64.52	1.7	UD	4.49		
Tetrahydrofuran	109-99-9	72.11	1.3	UD	3.83		
Trichlorofluoromethane	75-69-4	137.4	1.6	UD	8.99		
Dichlorotetrafluoroethane	76-14-2	170.9	0.88	UD	6.15		
1,1,2-Trichlorotrifluoroethane	76-13-1	187.4	1.6	UD	12.3		
tert-Butyl alcohol	75-65-0	74.12	1.9	UD	5.76		
Heptane	142-82-5	100.2	1.1	UD	4.51		
1,1-Dichloroethene	75-35-4	96.94	1.4	UD	5.55		
Acetone	67-64-1	58.08	46.2	D	109		
Carbon Disulfide	75-15-0	76.14	1.6	UD	4.98		
Methyl tert-Butyl Ether	1634-04-4	88.15	1.2	UD	4.33		
Methylene Chloride	75-09-2	84.94	1.9	UD	6.6		
trans-1,2-Dichloroethene	156-60-5	96.94	1.9	UD	7.53		
1,1-Dichloroethane	75-34-3	98.96	1.3	UD	5.26		
Cyclohexane	110-82-7	84.16	2.2	UD	7.57		
2-Butanone	78-93-3	72.11	1.2	UD	3.54		
Carbon Tetrachloride	56-23-5	153.8	0.11	UD	0.69		
cis-1,2-Dichloroethene	156-59-2	96.94	0.89	UD	3.53		
Chloroform	67-66-3	119.4	0.83	UD	4.05		
1,1,1-Trichloroethane	71-55-6	133.4	0.1	UD	0.55		
2,2,4-Trimethylpentane	540-84-1	114.2	1	UD	4.67		
Benzene	71-43-2	78.11	0.87	UD	2.78		
1,2-Dichloroethane	107-06-2	98.96	0.91	UD	3.68		
Trichloroethene	79-01-6	131.4	0.17	UD	0.91		
1,2-Dichloropropane	78-87-5	113	1.1	UD	5.08		
Bromodichloromethane	75-27-4	163.8	0.77	UD	5.16		
4-Methyl-2-Pentanone	108-10-1	100.2	0.93	UD	3.81		
Toluene	108-88-3	92.14	1.1	UD	4.15		
t-1,3-Dichloropropene	10061-02-6	111	0.6	UD	2.72		
cis-1,3-Dichloropropene	10061-01-5	111	0.64	UD	2.91		
1,1,2-Trichloroethane	79-00-5	133.4	0.71	UD	3.87		

Project : US EPA Riverside Industrial Park Superfund Site

Sampling Date : 04/01/25

Field Id Number : SSSG-B14-3-04012025D

Analysis Date : 04/07/25

Laboratory Id Number : Q1725-05DL

Target Analyts : Air Results

Dibromochloromethane	124-48-1	208.3	0.66	UD	5.62		
1,2-Dibromoethane	106-93-4	187.9	0.72	UD	5.53		
Tetrachloroethene	127-18-4	165.8	0.15	UD	1.02		
Chlorobenzene	108-90-7	112.6	0.76	UD	3.5		
Ethyl Benzene	100-41-4	106.2	1.2	UD	5.21		
m/p-Xylene	179601-23-1	106.2	3	JD	13.0		
o-Xylene	95-47-6	106.2	1.2	UD	5.21		
Styrene	100-42-5	104.1	1.1	UD	4.68		
Bromoform	75-25-2	252.8	0.57	UD	5.89		
1,1,2,2-Tetrachloroethane	79-34-5	167.9	0.11	UD	0.76		
2-Chlorotoluene	95-49-8	126.6	1.1	UD	5.7		
1,3,5-Trimethylbenzene	108-67-8	120.2	1.1	UD	5.41		
1,2,4-Trimethylbenzene	95-63-6	120.2	0.78	UD	3.83		
1,3-Dichlorobenzene	541-73-1	147	0.8	UD	4.81		
1,4-Dichlorobenzene	106-46-7	147	0.53	UD	3.19		
1,2-Dichlorobenzene	95-50-1	147	0.75	UD	4.51		
1,2,4-Trichlorobenzene	120-82-1	181.5	0.85	UD	6.31		
Hexachloro-1,3-Butadiene	87-68-3	260.8	0.85	UD	9.07		
Naphthalene	91-20-3	128.17	0.75	UD	3.93		
1,3-Butadiene	106-99-0	54.09	1.3	UD	2.88		
4-Ethyltoluene	622-96-8	120.2	1.2	UD	5.9		
Hexane	110-54-3	86.17	1.1	UD	3.88		
Allyl Chloride	107-05-1	76.53	1.5	UD	4.7		
1,4-Dioxane	123-91-1	88.12	2.1	UD	7.57		
Methyl Methacrylate	80-62-6	100.117	0.86	UD	3.52		

Project : US EPA Riverside Industrial Park Superfund Site

Sampling Date : 03/31/25

Field Id Number : SSSG-B10-3-03312025

Analysis Date : 04/07/25

Laboratory Id Number : Q1725-06

Target Analyts : Air Results

Chemical	Cas Number	Molecular Weight	Insert Results in PPBV	Qualifier	Generate Results in ug/m3	QAS Decision	Foot Notes
Dichlorodifluoromethane	75-71-8	120.9	0.84	U	4.15		
Chloromethane	74-87-3	50.49	0.65	J	1.34		
Vinyl Chloride	75-01-4	62.5	0.06	U	0.15		
Bromomethane	74-83-9	94.94	0.56	U	2.17		
Chloroethane	75-00-3	64.52	0.68	U	1.79		
Tetrahydrofuran	109-99-9	72.11	0.97	J	2.86		
Trichlorofluoromethane	75-69-4	137.4	0.64	U	3.6		
Dichlorotetrafluoroethane	76-14-2	170.9	0.35	U	2.45		
1,1,2-Trichlorotrifluoroethane	76-13-1	187.4	0.64	U	4.91		
tert-Butyl alcohol	75-65-0	74.12	1.2	J	3.64		
Heptane	142-82-5	100.2	0.44	U	1.8		
1,1-Dichloroethene	75-35-4	96.94	0.56	U	2.22		
Acetone	67-64-1	58.08	160	E	380		
Carbon Disulfide	75-15-0	76.14	0.64	U	1.99		
Methyl tert-Butyl Ether	1634-04-4	88.15	0.48	U	1.73		
Methylene Chloride	75-09-2	84.94	6.8		23.6		
trans-1,2-Dichloroethene	156-60-5	96.94	0.76	U	3.01		
1,1-Dichloroethane	75-34-3	98.96	0.52	U	2.1		
Cyclohexane	110-82-7	84.16	0.88	U	3.03		
2-Butanone	78-93-3	72.11	19.6		57.8		
Carbon Tetrachloride	56-23-5	153.8	0.04	U	0.25		
cis-1,2-Dichloroethene	156-59-2	96.94	0.36	U	1.43		
Chloroform	67-66-3	119.4	1.4	J	6.84		
1,1,1-Trichloroethane	71-55-6	133.4	0.04	U	0.22		
2,2,4-Trimethylpentane	540-84-1	114.2	0.4	U	1.87		
Benzene	71-43-2	78.11	0.35	U	1.12		
1,2-Dichloroethane	107-06-2	98.96	0.36	U	1.46		
Trichloroethene	79-01-6	131.4	0.07	U	0.38		
1,2-Dichloropropane	78-87-5	113	0.44	U	2.03		
Bromodichloromethane	75-27-4	163.8	0.31	U	2.08		
4-Methyl-2-Pentanone	108-10-1	100.2	0.37	U	1.52		
Toluene	108-88-3	92.14	0.48	J	1.81		
t-1,3-Dichloropropene	10061-02-6	111	0.24	U	1.09		
cis-1,3-Dichloropropene	10061-01-5	111	0.26	U	1.18		
1,1,2-Trichloroethane	79-00-5	133.4	0.28	U	1.53		

Project : US EPA Riverside Industrial Park Superfund Site

Sampling Date : 03/31/25

Field Id Number : SSSG-B10-3-03312025

Analysis Date : 04/07/25

Laboratory Id Number : Q1725-06

Target Analyts : Air Results

Dibromochloromethane	124-48-1	208.3	0.26	U	2.22		
1,2-Dibromoethane	106-93-4	187.9	0.29	U	2.23		
Tetrachloroethene	127-18-4	165.8	2.5		17.0		
Chlorobenzene	108-90-7	112.6	0.3	U	1.38		
Ethyl Benzene	100-41-4	106.2	0.48	U	2.08		
m/p-Xylene	179601-23-1	106.2	0.84	U	3.65		
o-Xylene	95-47-6	106.2	0.48	U	2.08		
Styrene	100-42-5	104.1	0.44	U	1.87		
Bromoform	75-25-2	252.8	0.23	U	2.38		
1,1,2,2-Tetrachloroethane	79-34-5	167.9	0.04	U	0.27		
2-Chlorotoluene	95-49-8	126.6	0.44	U	2.28		
1,3,5-Trimethylbenzene	108-67-8	120.2	0.44	U	2.16		
1,2,4-Trimethylbenzene	95-63-6	120.2	0.31	U	1.52		
1,3-Dichlorobenzene	541-73-1	147	0.32	U	1.92		
1,4-Dichlorobenzene	106-46-7	147	0.21	U	1.26		
1,2-Dichlorobenzene	95-50-1	147	0.3	U	1.8		
1,2,4-Trichlorobenzene	120-82-1	181.5	0.34	U	2.52		
Hexachloro-1,3-Butadiene	87-68-3	260.8	0.34	U	3.63		
Naphthalene	91-20-3	128.17	0.3	U	1.57		
1,3-Butadiene	106-99-0	54.09	0.52	U	1.15		
4-Ethyltoluene	622-96-8	120.2	0.48	U	2.36		
Hexane	110-54-3	86.17	2		7.05		
Allyl Chloride	107-05-1	76.53	0.6	U	1.88		
1,4-Dioxane	123-91-1	88.12	0.84	U	3.03		
Methyl Methacrylate	80-62-6	100.117	0.34	U	1.39		

Project : US EPA Riverside Industrial Park Superfund Site

Sampling Date : 03/31/25

Field Id Number : SSSG-B10-3-03312025D

Analysis Date : 04/08/25

Laboratory Id Number : Q1725-06DL

Target Analyts : Air Results

Chemical	Cas Number	Molecular Weight	Insert Results in PPBV	Qualifier	Generate Results in ug/m3	QAS Decision	Foot Notes
Dichlorodifluoromethane	75-71-8	120.9	8.4	UD	41.5		
Chloromethane	74-87-3	50.49	3.9	UD	8.05		
Vinyl Chloride	75-01-4	62.5	0.56	UD	1.43		
Bromomethane	74-83-9	94.94	5.6	UD	21.7		
Chloroethane	75-00-3	64.52	6.8	UD	17.9		
Tetrahydrofuran	109-99-9	72.11	5.2	UD	15.3		
Trichlorofluoromethane	75-69-4	137.4	6.4	UD	36.0		
Dichlorotetrafluoroethane	76-14-2	170.9	3.5	UD	24.5		
1,1,2-Trichlorotrifluoroethane	76-13-1	187.4	6.4	UD	49.0		
tert-Butyl alcohol	75-65-0	74.12	7.6	UD	23.0		
Heptane	142-82-5	100.2	4.4	UD	18.0		
1,1-Dichloroethene	75-35-4	96.94	5.6	UD	22.2		
Acetone	67-64-1	58.08	160	D	380		
Carbon Disulfide	75-15-0	76.14	6.4	UD	19.9		
Methyl tert-Butyl Ether	1634-04-4	88.15	4.8	UD	17.3		
Methylene Chloride	75-09-2	84.94	13.2	JD	45.9		
trans-1,2-Dichloroethene	156-60-5	96.94	7.6	UD	30.1		
1,1-Dichloroethane	75-34-3	98.96	5.2	UD	21.0		
Cyclohexane	110-82-7	84.16	8.8	UD	30.3		
2-Butanone	78-93-3	72.11	16.7	JD	49.2		
Carbon Tetrachloride	56-23-5	153.8	0.44	UD	2.77		
cis-1,2-Dichloroethene	156-59-2	96.94	3.6	UD	14.3		
Chloroform	67-66-3	119.4	3.3	UD	16.1		
1,1,1-Trichloroethane	71-55-6	133.4	0.38	UD	2.07		
2,2,4-Trimethylpentane	540-84-1	114.2	4	UD	18.7		
Benzene	71-43-2	78.11	3.5	UD	11.2		
1,2-Dichloroethane	107-06-2	98.96	3.6	UD	14.6		
Trichloroethene	79-01-6	131.4	0.68	UD	3.65		
1,2-Dichloropropane	78-87-5	113	4.4	UD	20.3		
Bromodichloromethane	75-27-4	163.8	3.1	UD	20.8		
4-Methyl-2-Pentanone	108-10-1	100.2	3.7	UD	15.2		
Toluene	108-88-3	92.14	4.4	UD	16.6		
t-1,3-Dichloropropene	10061-02-6	111	2.4	UD	10.9		
cis-1,3-Dichloropropene	10061-01-5	111	2.6	UD	11.8		
1,1,2-Trichloroethane	79-00-5	133.4	2.8	UD	15.3		

Project : US EPA Riverside Industrial Park Superfund Site

Sampling Date : 03/31/25

Field Id Number : SSSG-B10-3-03312025D

Analysis Date : 04/08/25

Laboratory Id Number : Q1725-06DL

Target Analyts : Air Results

Dibromochloromethane	124-48-1	208.3	2.6	UD	22.2		
1,2-Dibromoethane	106-93-4	187.9	2.9	UD	22.3		
Tetrachloroethene	127-18-4	165.8	2.5	D	17.0		
Chlorobenzene	108-90-7	112.6	3	UD	13.8		
Ethyl Benzene	100-41-4	106.2	4.8	UD	20.8		
m/p-Xylene	179601-23-1	106.2	8.4	UD	36.5		
o-Xylene	95-47-6	106.2	4.8	UD	20.8		
Styrene	100-42-5	104.1	4.4	UD	18.7		
Bromoform	75-25-2	252.8	2.3	UD	23.8		
1,1,2,2-Tetrachloroethane	79-34-5	167.9	0.44	UD	3.02		
2-Chlorotoluene	95-49-8	126.6	4.4	UD	22.8		
1,3,5-Trimethylbenzene	108-67-8	120.2	4.4	UD	21.6		
1,2,4-Trimethylbenzene	95-63-6	120.2	3.1	UD	15.2		
1,3-Dichlorobenzene	541-73-1	147	3.2	UD	19.2		
1,4-Dichlorobenzene	106-46-7	147	2.1	UD	12.6		
1,2-Dichlorobenzene	95-50-1	147	3	UD	18.0		
1,2,4-Trichlorobenzene	120-82-1	181.5	3.4	UD	25.2		
Hexachloro-1,3-Butadiene	87-68-3	260.8	3.4	UD	36.3		
Naphthalene	91-20-3	128.17	3	UD	15.7		
1,3-Butadiene	106-99-0	54.09	5.2	UD	11.5		
4-Ethyltoluene	622-96-8	120.2	4.8	UD	23.6		
Hexane	110-54-3	86.17	4.4	UD	15.5		
Allyl Chloride	107-05-1	76.53	6	UD	18.8		
1,4-Dioxane	123-91-1	88.12	8.4	UD	30.3		
Methyl Methacrylate	80-62-6	100.117	3.4	UD	13.9		

Project : US EPA Riverside Industrial Park Superfund Site

Sampling Date : 03/31/25

Field Id Number : SSSG-B10-1-03312025-5

Analysis Date : 04/08/25

Laboratory Id Number : Q1725-07

Target Analyts : Air Results

Chemical	Cas Number	Molecular Weight	Insert Results in PPBV	Qualifier	Generate Results in ug/m3	QAS Decision	Foot Notes
Dichlorodifluoromethane	75-71-8	120.9	0.36	J	1.78		
Chloromethane	74-87-3	50.49	0.1	U	0.21		
Vinyl Chloride	75-01-4	62.5	0.01	U	0.03		
Bromomethane	74-83-9	94.94	0.14	U	0.54		
Chloroethane	75-00-3	64.52	0.17	U	0.45		
Tetrahydrofuran	109-99-9	72.11	0.13	U	0.38		
Trichlorofluoromethane	75-69-4	137.4	0.24	J	1.35		
Dichlorotetrafluoroethane	76-14-2	170.9	0.09	U	0.63		
1,1,2-Trichlorotrifluoroethane	76-13-1	187.4	0.16	U	1.23		
tert-Butyl alcohol	75-65-0	74.12	0.8		2.43		
Heptane	142-82-5	100.2	0.61		2.5		
1,1-Dichloroethene	75-35-4	96.94	0.14	U	0.56		
Acetone	67-64-1	58.08	28.2	E	67.0		
Carbon Disulfide	75-15-0	76.14	0.16	U	0.5		
Methyl tert-Butyl Ether	1634-04-4	88.15	0.12	U	0.43		
Methylene Chloride	75-09-2	84.94	1.1		3.82		
trans-1,2-Dichloroethene	156-60-5	96.94	0.19	U	0.75		
1,1-Dichloroethane	75-34-3	98.96	0.13	U	0.53		
Cyclohexane	110-82-7	84.16	0.22	U	0.76		
2-Butanone	78-93-3	72.11	1.5		4.42		
Carbon Tetrachloride	56-23-5	153.8	0.09		0.57		
cis-1,2-Dichloroethene	156-59-2	96.94	0.09	U	0.36		
Chloroform	67-66-3	119.4	2.4		11.7		
1,1,1-Trichloroethane	71-55-6	133.4	0.03		0.16		
2,2,4-Trimethylpentane	540-84-1	114.2	0.29	J	1.35		
Benzene	71-43-2	78.11	0.49	J	1.57		
1,2-Dichloroethane	107-06-2	98.96	0.09	U	0.36		
Trichloroethene	79-01-6	131.4	0.26		1.4		
1,2-Dichloropropane	78-87-5	113	0.11	U	0.51		
Bromodichloromethane	75-27-4	163.8	0.08	U	0.54		
4-Methyl-2-Pentanone	108-10-1	100.2	0.09	U	0.37		
Toluene	108-88-3	92.14	4.3		16.2		
t-1,3-Dichloropropene	10061-02-6	111	0.06	U	0.27		
cis-1,3-Dichloropropene	10061-01-5	111	0.06	U	0.27		
1,1,2-Trichloroethane	79-00-5	133.4	0.07	U	0.38		

Project : US EPA Riverside Industrial Park Superfund Site

Sampling Date : 03/31/25

Field Id Number : SSSG-B10-1-03312025-5

Analysis Date : 04/08/25

Laboratory Id Number : Q1725-07

Target Analyts : Air Results

Dibromochloromethane	124-48-1	208.3	0.07	U	0.6		
1,2-Dibromoethane	106-93-4	187.9	0.07	U	0.54		
Tetrachloroethene	127-18-4	165.8	0.75		5.09		
Chlorobenzene	108-90-7	112.6	0.08	U	0.37		
Ethyl Benzene	100-41-4	106.2	0.87		3.78		
m/p-Xylene	179601-23-1	106.2	4.3		18.7		
o-Xylene	95-47-6	106.2	1.8		7.82		
Styrene	100-42-5	104.1	0.11	U	0.47		
Bromoform	75-25-2	252.8	0.06	U	0.62		
1,1,2,2-Tetrachloroethane	79-34-5	167.9	0.01	U	0.07		
2-Chlorotoluene	95-49-8	126.6	0.11	U	0.57		
1,3,5-Trimethylbenzene	108-67-8	120.2	0.44	J	2.16		
1,2,4-Trimethylbenzene	95-63-6	120.2	1.7		8.36		
1,3-Dichlorobenzene	541-73-1	147	0.16	J	0.96		
1,4-Dichlorobenzene	106-46-7	147	0.05	U	0.3		
1,2-Dichlorobenzene	95-50-1	147	0.08	U	0.48		
1,2,4-Trichlorobenzene	120-82-1	181.5	0.09	U	0.67		
Hexachloro-1,3-Butadiene	87-68-3	260.8	0.09	U	0.96		
Naphthalene	91-20-3	128.17	0.08	U	0.42		
1,3-Butadiene	106-99-0	54.09	0.13	U	0.29		
4-Ethyltoluene	622-96-8	120.2	0.12	U	0.59		
Hexane	110-54-3	86.17	1		3.52		
Allyl Chloride	107-05-1	76.53	0.15	U	0.47		
1,4-Dioxane	123-91-1	88.12	0.21	U	0.76		
Methyl Methacrylate	80-62-6	100.117	0.09	U	0.37		

Project : US EPA Riverside Industrial Park Superfund Site

Sampling Date : 03/31/25

Field Id Number : SSSG-B10-1-03312025-5

Analysis Date : 04/07/25

Laboratory Id Number : Q1725-07DL

Target Analyts : Air Results

Chemical	Cas Number	Molecular Weight	Insert Results in PPBV	Qualifier	Generate Results in ug/m3	QAS Decision	Foot Notes
Dichlorodifluoromethane	75-71-8	120.9	2.1	UD	10.4		
Chloromethane	74-87-3	50.49	0.98	UD	2.02		
Vinyl Chloride	75-01-4	62.5	0.14	UD	0.36		
Bromomethane	74-83-9	94.94	1.4	UD	5.44		
Chloroethane	75-00-3	64.52	1.7	UD	4.49		
Tetrahydrofuran	109-99-9	72.11	1.3	UD	3.83		
Trichlorofluoromethane	75-69-4	137.4	1.6	UD	8.99		
Dichlorotetrafluoroethane	76-14-2	170.9	0.88	UD	6.15		
1,1,2-Trichlorotrifluoroethane	76-13-1	187.4	1.6	UD	12.3		
tert-Butyl alcohol	75-65-0	74.12	1.9	UD	5.76		
Heptane	142-82-5	100.2	1.1	UD	4.51		
1,1-Dichloroethene	75-35-4	96.94	1.4	UD	5.55		
Acetone	67-64-1	58.08	32	D	76.0		
Carbon Disulfide	75-15-0	76.14	1.6	UD	4.98		
Methyl tert-Butyl Ether	1634-04-4	88.15	1.2	UD	4.33		
Methylene Chloride	75-09-2	84.94	2.8	JD	9.73		
trans-1,2-Dichloroethene	156-60-5	96.94	1.9	UD	7.53		
1,1-Dichloroethane	75-34-3	98.96	1.3	UD	5.26		
Cyclohexane	110-82-7	84.16	2.2	UD	7.57		
2-Butanone	78-93-3	72.11	1.6	JD	4.72		
Carbon Tetrachloride	56-23-5	153.8	0.11	UD	0.69		
cis-1,2-Dichloroethene	156-59-2	96.94	0.89	UD	3.53		
Chloroform	67-66-3	119.4	2.5	JD	12.2		
1,1,1-Trichloroethane	71-55-6	133.4	0.1	UD	0.55		
2,2,4-Trimethylpentane	540-84-1	114.2	1	UD	4.67		
Benzene	71-43-2	78.11	0.87	UD	2.78		
1,2-Dichloroethane	107-06-2	98.96	0.91	UD	3.68		
Trichloroethene	79-01-6	131.4	0.17	UD	0.91		
1,2-Dichloropropane	78-87-5	113	1.1	UD	5.08		
Bromodichloromethane	75-27-4	163.8	0.77	UD	5.16		
4-Methyl-2-Pentanone	108-10-1	100.2	0.93	UD	3.81		
Toluene	108-88-3	92.14	3.1	JD	11.7		
t-1,3-Dichloropropene	10061-02-6	111	0.6	UD	2.72		
cis-1,3-Dichloropropene	10061-01-5	111	0.64	UD	2.91		
1,1,2-Trichloroethane	79-00-5	133.4	0.71	UD	3.87		

Project : US EPA Riverside Industrial Park Superfund Site

Sampling Date : 03/31/25

Field Id Number : SSSG-B10-1-03312025-5

Analysis Date : 04/07/25

Laboratory Id Number : Q1725-07DL

Target Analyts : Air Results

Dibromochloromethane	124-48-1	208.3	0.66	UD	5.62		
1,2-Dibromoethane	106-93-4	187.9	0.72	UD	5.53		
Tetrachloroethene	127-18-4	165.8	0.73	D	4.95		
Chlorobenzene	108-90-7	112.6	0.76	UD	3.5		
Ethyl Benzene	100-41-4	106.2	1.2	UD	5.21		
m/p-Xylene	179601-23-1	106.2	2.5	JD	10.9		
o-Xylene	95-47-6	106.2	1.2	JD	5.21		
Styrene	100-42-5	104.1	1.1	UD	4.68		
Bromoform	75-25-2	252.8	0.57	UD	5.89		
1,1,2,2-Tetrachloroethane	79-34-5	167.9	0.11	UD	0.76		
2-Chlorotoluene	95-49-8	126.6	1.1	UD	5.7		
1,3,5-Trimethylbenzene	108-67-8	120.2	1.1	UD	5.41		
1,2,4-Trimethylbenzene	95-63-6	120.2	0.78	UD	3.83		
1,3-Dichlorobenzene	541-73-1	147	0.8	UD	4.81		
1,4-Dichlorobenzene	106-46-7	147	0.53	UD	3.19		
1,2-Dichlorobenzene	95-50-1	147	0.75	UD	4.51		
1,2,4-Trichlorobenzene	120-82-1	181.5	0.85	UD	6.31		
Hexachloro-1,3-Butadiene	87-68-3	260.8	0.85	UD	9.07		
Naphthalene	91-20-3	128.17	0.75	UD	3.93		
1,3-Butadiene	106-99-0	54.09	1.3	UD	2.88		
4-Ethyltoluene	622-96-8	120.2	1.2	UD	5.9		
Hexane	110-54-3	86.17	1.1	UD	3.88		
Allyl Chloride	107-05-1	76.53	1.5	UD	4.7		
1,4-Dioxane	123-91-1	88.12	2.1	UD	7.57		
Methyl Methacrylate	80-62-6	100.117	0.86	UD	3.52		

Project : US EPA Riverside Industrial Park Superfund Site

Sampling Date : 03/31/25

Field Id Number : SSSG-B10-2-03312025

Analysis Date : 04/08/25

Laboratory Id Number : Q1725-08

Target Analyts : Air Results

Chemical	Cas Number	Molecular Weight	Insert Results in PPBV	Qualifier	Generate Results in ug/m3	QAS Decision	Foot Notes
Dichlorodifluoromethane	75-71-8	120.9	0.84	U	4.15		
Chloromethane	74-87-3	50.49	0.45	J	0.93		
Vinyl Chloride	75-01-4	62.5	0.06	U	0.15		
Bromomethane	74-83-9	94.94	0.56	U	2.17		
Chloroethane	75-00-3	64.52	0.68	U	1.79		
Tetrahydrofuran	109-99-9	72.11	0.52	U	1.53		
Trichlorofluoromethane	75-69-4	137.4	0.64	U	3.6		
Dichlorotetrafluoroethane	76-14-2	170.9	0.35	U	2.45		
1,1,2-Trichlorotrifluoroethane	76-13-1	187.4	0.64	U	4.91		
tert-Butyl alcohol	75-65-0	74.12	1.2	J	3.64		
Heptane	142-82-5	100.2	0.44	U	1.8		
1,1-Dichloroethene	75-35-4	96.94	0.56	U	2.22		
Acetone	67-64-1	58.08	140	E	332		
Carbon Disulfide	75-15-0	76.14	0.64	U	1.99		
Methyl tert-Butyl Ether	1634-04-4	88.15	0.48	U	1.73		
Methylene Chloride	75-09-2	84.94	0.96	J	3.34		
trans-1,2-Dichloroethene	156-60-5	96.94	0.76	U	3.01		
1,1-Dichloroethane	75-34-3	98.96	0.52	U	2.1		
Cyclohexane	110-82-7	84.16	0.88	U	3.03		
2-Butanone	78-93-3	72.11	21.9		64.6		
Carbon Tetrachloride	56-23-5	153.8	0.04	U	0.25		
cis-1,2-Dichloroethene	156-59-2	96.94	0.36	U	1.43		
Chloroform	67-66-3	119.4	1.5	J	7.33		
1,1,1-Trichloroethane	71-55-6	133.4	0.04	U	0.22		
2,2,4-Trimethylpentane	540-84-1	114.2	0.4	U	1.87		
Benzene	71-43-2	78.11	0.46	J	1.47		
1,2-Dichloroethane	107-06-2	98.96	0.36	U	1.46		
Trichloroethene	79-01-6	131.4	0.07	U	0.38		
1,2-Dichloropropane	78-87-5	113	0.44	U	2.03		
Bromodichloromethane	75-27-4	163.8	0.31	U	2.08		
4-Methyl-2-Pentanone	108-10-1	100.2	0.37	U	1.52		
Toluene	108-88-3	92.14	1.8	J	6.78		
t-1,3-Dichloropropene	10061-02-6	111	0.24	U	1.09		
cis-1,3-Dichloropropene	10061-01-5	111	0.26	U	1.18		
1,1,2-Trichloroethane	79-00-5	133.4	0.28	U	1.53		

Project : US EPA Riverside Industrial Park Superfund Site

Sampling Date : 03/31/25

Field Id Number : SSSG-B10-2-03312025

Analysis Date : 04/08/25

Laboratory Id Number : Q1725-08

Target Analyts : Air Results

Dibromochloromethane	124-48-1	208.3	0.26	U	2.22		
1,2-Dibromoethane	106-93-4	187.9	0.29	U	2.23		
Tetrachloroethene	127-18-4	165.8	3.1		21.0		
Chlorobenzene	108-90-7	112.6	0.3	U	1.38		
Ethyl Benzene	100-41-4	106.2	0.52	J	2.26		
m/p-Xylene	179601-23-1	106.2	1.9	J	8.25		
o-Xylene	95-47-6	106.2	0.83	J	3.61		
Styrene	100-42-5	104.1	0.44	U	1.87		
Bromoform	75-25-2	252.8	0.23	U	2.38		
1,1,2,2-Tetrachloroethane	79-34-5	167.9	0.04	U	0.27		
2-Chlorotoluene	95-49-8	126.6	0.44	U	2.28		
1,3,5-Trimethylbenzene	108-67-8	120.2	0.44	U	2.16		
1,2,4-Trimethylbenzene	95-63-6	120.2	0.68	J	3.34		
1,3-Dichlorobenzene	541-73-1	147	0.32	U	1.92		
1,4-Dichlorobenzene	106-46-7	147	0.21	U	1.26		
1,2-Dichlorobenzene	95-50-1	147	0.3	U	1.8		
1,2,4-Trichlorobenzene	120-82-1	181.5	0.34	U	2.52		
Hexachloro-1,3-Butadiene	87-68-3	260.8	0.34	U	3.63		
Naphthalene	91-20-3	128.17	0.3	U	1.57		
1,3-Butadiene	106-99-0	54.09	0.52	U	1.15		
4-Ethyltoluene	622-96-8	120.2	0.48	U	2.36		
Hexane	110-54-3	86.17	0.51	J	1.8		
Allyl Chloride	107-05-1	76.53	0.6	U	1.88		
1,4-Dioxane	123-91-1	88.12	0.84	U	3.03		
Methyl Methacrylate	80-62-6	100.117	0.34	U	1.39		

Project : US EPA Riverside Industrial Park Superfund Site

Sampling Date : 03/31/25

Field Id Number : SSSG-B10-2-03312025DL

Analysis Date : 04/08/25

Laboratory Id Number : Q1725-08DL

Target Analyts : Air Results

Chemical	Cas Number	Molecular Weight	Insert Results in PPBV	Qualifier	Generate Results in ug/m3	QAS Decision	Foot Notes
Dichlorodifluoromethane	75-71-8	120.9	8.4	UD	41.5		
Chloromethane	74-87-3	50.49	3.9	UD	8.05		
Vinyl Chloride	75-01-4	62.5	0.56	UD	1.43		
Bromomethane	74-83-9	94.94	5.6	UD	21.7		
Chloroethane	75-00-3	64.52	6.8	UD	17.9		
Tetrahydrofuran	109-99-9	72.11	5.2	UD	15.3		
Trichlorofluoromethane	75-69-4	137.4	6.4	UD	36.0		
Dichlorotetrafluoroethane	76-14-2	170.9	3.5	UD	24.5		
1,1,2-Trichlorotrifluoroethane	76-13-1	187.4	6.4	UD	49.0		
tert-Butyl alcohol	75-65-0	74.12	7.6	UD	23.0		
Heptane	142-82-5	100.2	4.4	UD	18.0		
1,1-Dichloroethene	75-35-4	96.94	5.6	UD	22.2		
Acetone	67-64-1	58.08	160	D	380		
Carbon Disulfide	75-15-0	76.14	6.4	UD	19.9		
Methyl tert-Butyl Ether	1634-04-4	88.15	4.8	UD	17.3		
Methylene Chloride	75-09-2	84.94	7.6	UD	26.4		
trans-1,2-Dichloroethene	156-60-5	96.94	7.6	UD	30.1		
1,1-Dichloroethane	75-34-3	98.96	5.2	UD	21.0		
Cyclohexane	110-82-7	84.16	8.8	UD	30.3		
2-Butanone	78-93-3	72.11	21	D	61.9		
Carbon Tetrachloride	56-23-5	153.8	0.44	UD	2.77		
cis-1,2-Dichloroethene	156-59-2	96.94	3.6	UD	14.3		
Chloroform	67-66-3	119.4	3.3	UD	16.1		
1,1,1-Trichloroethane	71-55-6	133.4	0.38	UD	2.07		
2,2,4-Trimethylpentane	540-84-1	114.2	4	UD	18.7		
Benzene	71-43-2	78.11	3.5	UD	11.2		
1,2-Dichloroethane	107-06-2	98.96	3.6	UD	14.6		
Trichloroethene	79-01-6	131.4	0.68	UD	3.65		
1,2-Dichloropropane	78-87-5	113	4.4	UD	20.3		
Bromodichloromethane	75-27-4	163.8	3.1	UD	20.8		
4-Methyl-2-Pentanone	108-10-1	100.2	3.7	UD	15.2		
Toluene	108-88-3	92.14	4.4	UD	16.6		
t-1,3-Dichloropropene	10061-02-6	111	2.4	UD	10.9		
cis-1,3-Dichloropropene	10061-01-5	111	2.6	UD	11.8		
1,1,2-Trichloroethane	79-00-5	133.4	2.8	UD	15.3		

Project : US EPA Riverside Industrial Park Superfund Site

Sampling Date : 03/31/25

Field Id Number : SSSG-B10-2-03312025DL

Analysis Date : 04/08/25

Laboratory Id Number : Q1725-08DL

Target Analyts : Air Results

Dibromochloromethane	124-48-1	208.3	2.6	UD	22.2		
1,2-Dibromoethane	106-93-4	187.9	2.9	UD	22.3		
Tetrachloroethene	127-18-4	165.8	3	D	20.3		
Chlorobenzene	108-90-7	112.6	3	UD	13.8		
Ethyl Benzene	100-41-4	106.2	4.8	UD	20.8		
m/p-Xylene	179601-23-1	106.2	8.4	UD	36.5		
o-Xylene	95-47-6	106.2	4.8	UD	20.8		
Styrene	100-42-5	104.1	4.4	UD	18.7		
Bromoform	75-25-2	252.8	2.3	UD	23.8		
1,1,2,2-Tetrachloroethane	79-34-5	167.9	0.44	UD	3.02		
2-Chlorotoluene	95-49-8	126.6	4.4	UD	22.8		
1,3,5-Trimethylbenzene	108-67-8	120.2	4.4	UD	21.6		
1,2,4-Trimethylbenzene	95-63-6	120.2	3.1	UD	15.2		
1,3-Dichlorobenzene	541-73-1	147	3.2	UD	19.2		
1,4-Dichlorobenzene	106-46-7	147	2.1	UD	12.6		
1,2-Dichlorobenzene	95-50-1	147	3	UD	18.0		
1,2,4-Trichlorobenzene	120-82-1	181.5	3.4	UD	25.2		
Hexachloro-1,3-Butadiene	87-68-3	260.8	3.4	UD	36.3		
1,3-Butadiene	106-99-0	54.09	5.2	UD	11.5		
Naphthalene	91-20-3	128.17	3	UD	15.7		
4-Ethyltoluene	622-96-8	120.2	4.8	UD	23.6		
Hexane	110-54-3	86.17	4.4	UD	15.5		
Allyl Chloride	107-05-1	76.53	6	UD	18.8		
1,4-Dioxane	123-91-1	88.12	8.4	UD	30.3		
Methyl Methacrylate	80-62-6	100.117	3.4	UD	13.9		

Method	Matrix	Parameter	Spike_Amt_ Added	Calculated MDL	MB Data	MB Datafile	New MDL TO Be Used	MDL Unit
TO-15	Air	1,1,1,2-Tetrachloroethane	0.4	0.090683682	0		0.091	ppbv
TO-15	Air	1,1,1-Trichloroethane	0.03	0.00947589	0		0.0095	ppbv
TO-15	Air	1,1,2,2-Tetrachloroethane	0.03	0.010183321	0		0.011	ppbv
TO-15	Air	1,1,2-Trichloroethane	0.4	0.070112514	0		0.071	ppbv
TO-15	Air	1,1,2-Trichlorotrifluoroethane	0.4	0.155560652	0		0.16	ppbv
TO-15	Air	1,1-Dichloroethane	0.4	0.122378743	0		0.13	ppbv
TO-15	Air	1,1-Dichloroethene	0.4	0.139735617	0		0.14	ppbv
TO-15	Air	1,2,4-Trichlorobenzene	0.4	0.084677012	0		0.085	ppbv
TO-15	Air	1,2,4-Trimethylbenzene	0.4	0.077496367	0		0.078	ppbv
TO-15	Air	1,2-Dibromoethane	0.4	0.071318853	0		0.072	ppbv
TO-15	Air	1,2-Dichlorobenzene	0.4	0.074250332	0		0.075	ppbv
TO-15	Air	1,2-Dichloroethane	0.4	0.090890005	0		0.091	ppbv
TO-15	Air	1,2-Dichloropropane	0.4	0.073346868	0.109	VL038919.D	0.11	ppbv
TO-15	Air	1,3,5-Trimethylbenzene	0.4	0.101198372	0		0.11	ppbv
TO-15	Air	1,3-Butadiene	0.4	0.124009143	0		0.13	ppbv
TO-15	Air	1,3-Dichlorobenzene	0.4	0.079013305	0		0.08	ppbv
TO-15	Air	1,4-Dichlorobenzene	0.4	0.052746151	0		0.053	ppbv
TO-15	Air	1,4-Dioxane	0.4	0.202123585	0		0.21	ppbv
TO-15	Air	2,2,4-Trimethylpentane	0.4	0.09988427	0		0.10	ppbv
TO-15	Air	2-Butanone	0.4	0.118687999	0		0.12	ppbv
TO-15	Air	2-Chlorotoluene	0.4	0.104141644	0		0.11	ppbv
TO-15	Air	2-Hexanone	0.4	0.080656229	0		0.081	ppbv
TO-15	Air	4-Ethyltoluene	0.4	0.112037051	0		0.12	ppbv
TO-15	Air	4-Methyl-2-Pentanone	0.4	0.092836933	0		0.093	ppbv
TO-15	Air	Acetone	0.4	0.234416891	0		0.24	ppbv
TO-15	Air	Allyl Chloride	0.4	0.145618654	0		0.15	ppbv
TO-15	Air	Benzene	0.4	0.086407689	0		0.087	ppbv
TO-15	Air	Benzyl Chloride	0.4	0.173895169	0		0.18	ppbv
TO-15	Air	Bromodichloromethane	0.4	0.076780313	0		0.077	ppbv
TO-15	Air	Bromoethene	0.4	0.115560124	0		0.12	ppbv
TO-15	Air	Bromoform	0.4	0.056947551	0		0.057	ppbv
TO-15	Air	Bromomethane	0.4	0.137678239	0		0.14	ppbv
TO-15	Air	Carbon Disulfide	0.4	0.157343925	0		0.16	ppbv
TO-15	Air	Carbon Tetrachloride	0.03	0.010617308	0		0.011	ppbv
TO-15	Air	Chlorobenzene	0.4	0.075202602	0		0.076	ppbv
TO-15	Air	Chlorodifluoromethane	0.4	0.087466815	0		0.088	ppbv
TO-15	Air	Chloroethane	0.4	0.163530318	0		0.17	ppbv
TO-15	Air	Chloroform	0.4	0.082232394	0		0.083	ppbv
TO-15	Air	Chloromethane	0.4	0.097292998	0		0.098	ppbv
TO-15	Air	cis-1,2-Dichloroethene	0.4	0.088332535	0		0.089	ppbv
TO-15	Air	cis-1,3-Dichloropropene	0.4	0.063248763	0		0.064	ppbv
TO-15	Air	Cyclohexane	0.4	0.217999816	0		0.22	ppbv
TO-15	Air	Dibromochloromethane	0.4	0.065703935	0		0.066	ppbv
TO-15	Air	Dichlorodifluoromethane	0.4	0.20957733	0		0.21	ppbv
TO-15	Air	Dichlorotetrafluoroethane	0.4	0.087348046	0		0.088	ppbv
TO-15	Air	Ethyl Acetate	0.4	0.078161123	0		0.079	ppbv
TO-15	Air	Ethyl Benzene	0.4	0.115413562	0		0.12	ppbv
TO-15	Air	Heptane	0.4	0.100800637	0		0.11	ppbv
TO-15	Air	Hexachloro-1,3-Butadiene	0.4	0.084169773	0		0.085	ppbv
TO-15	Air	Hexane	0.4	0.106485082	0		0.11	ppbv
TO-15	Air	Isopropyl Alcohol	0.4	0.068329134	0		0.069	ppbv
TO-15	Air	Isopropylbenzene	0.4	0.086744608	0		0.087	ppbv
TO-15	Air	m/p-Xylene	0.4	0.205831125	0		0.21	ppbv
TO-15	Air	Methyl Methacrylate	0.4	0.085528753	0		0.086	ppbv
TO-15	Air	Methyl tert-Butyl Ether	0.4	0.119546728	0		0.12	ppbv
TO-15	Air	Methylene Chloride	0.4	0.18405265	0.11	VL039022.D	0.19	ppbv
TO-15	Air	Naphthalene	0.4	0.074961199	0		0.075	ppbv
TO-15	Air	Naphthalene,2-methyl-	0.4	0.148496389	0		0.15	ppbv
TO-15	Air	n-Butylbenzene	0.4	0.08201719	0		0.083	ppbv
TO-15	Air	n-propylbenzene	0.4	0.0778963	0		0.078	ppbv
TO-15	Air	o-Xylene	0.4	0.117630235	0		0.12	ppbv
TO-15	Air	p-Isopropyltoluene	0.4	0.085704866	0		0.086	ppbv
TO-15	Air	Propene	0.4	0.143790814	0.14	VL039337.D	0.15	ppbv
TO-15	Air	sec-Butylbenzene	0.4	0.093164076	0		0.094	ppbv
TO-15	Air	Styrene	0.4	0.109444442	0		0.11	ppbv
TO-15	Air	t-1,3-Dichloropropene	0.4	0.059734415	0		0.06	ppbv
TO-15	Air	tert-Butyl alcohol	0.4	0.187711954	0		0.19	ppbv
TO-15	Air	tert-Butylbenzene	0.4	0.092760327	0		0.093	ppbv
TO-15	Air	Tetrachloroethene	0.03	0.014462962	0		0.015	ppbv
TO-15	Air	Tetrahydrofuran	0.4	0.122655048	0		0.13	ppbv
TO-15	Air	Toluene	0.4	0.109284	0		0.11	ppbv
TO-15	Air	trans-1,2-Dichloroethene	0.4	0.185264638	0		0.19	ppbv
TO-15	Air	Trichloroethene	0.03	0.016558175	0		0.017	ppbv
TO-15	Air	Trichlorofluoromethane	0.4	0.157465794	0		0.16	ppbv
TO-15	Air	Vinyl Acetate	0.4	0.152371485	0		0.16	ppbv
TO-15	Air	Vinyl Chloride	0.03	0.013585954	0		0.014	ppbv
TO-15	Air	Ethanol	0.4	0.317031286	0		0.32	ug/L

StddevVal	StudentsT Value	Instrument ID	Datafile1	Concentration1	Adate1	Datafile2	Concentration2
0.03485153	2.602	MSVOA_L	VL038602.D	0.51	03142022T18:52:00	VL038645.D	0.494
0.003641772	2.602	MSVOA_L	VL038599.D	0.03	03142022T17:01:00	VL038658.D	0.029
0.003913651	2.602	MSVOA_L	VL038599.D	0.03	03142022T17:01:00	VL038658.D	0.035
0.026945624	2.602	MSVOA_L	VL038602.D	0.44	03142022T18:52:00	VL038645.D	0.439
0.059785032	2.602	MSVOA_L	VL038602.D	0.47	03142022T18:52:00	VL038645.D	0.466
0.047032569	2.602	MSVOA_L	VL038602.D	0.45	03142022T18:52:00	VL038645.D	0.456
0.053703158	2.602	MSVOA_L	VL038602.D	0.43	03142022T18:52:00	VL038645.D	0.411
0.032543048	2.602	MSVOA_L	VL038602.D	0.3	03142022T18:52:00	VL038645.D	0.336
0.029783385	2.602	MSVOA_L	VL038602.D	0.38	03142022T18:52:00	VL038645.D	0.396
0.027409244	2.602	MSVOA_L	VL038602.D	0.38	03142022T18:52:00	VL038645.D	0.352
0.028535869	2.602	MSVOA_L	VL038602.D	0.45	03142022T18:52:00	VL038645.D	0.407
0.034930824	2.602	MSVOA_L	VL038602.D	0.41	03142022T18:52:00	VL038645.D	0.445
0.02818865	2.602	MSVOA_L	VL038602.D	0.43	03142022T18:52:00	VL038645.D	0.406
0.038892534	2.602	MSVOA_L	VL038602.D	0.33	03142022T18:52:00	VL038645.D	0.374
0.047659163	2.602	MSVOA_L	VL038602.D	0.42	03142022T18:52:00	VL038645.D	0.419
0.030366374	2.602	MSVOA_L	VL038602.D	0.42	03142022T18:52:00	VL038645.D	0.428
0.020271388	2.602	MSVOA_L	VL038602.D	0.42	03142022T18:52:00	VL038645.D	0.418
0.077680086	2.602	MSVOA_L	VL038602.D	0.46	03142022T18:52:00	VL038645.D	0.285
0.038387498	2.602	MSVOA_L	VL038602.D	0.39	03142022T18:52:00	VL038645.D	0.383
0.045614143	2.602	MSVOA_L	VL038602.D	0.4	03142022T18:52:00	VL038645.D	0.406
0.040023691	2.602	MSVOA_L	VL038602.D	0.37	03142022T18:52:00	VL038645.D	0.375
0.030997782	2.602	MSVOA_L	VL038602.D	0.3	03142022T18:52:00	VL038645.D	0.283
0.043058052	2.602	MSVOA_L	VL038602.D	0.34	03142022T18:52:00	VL038645.D	0.356
0.035679067	2.602	MSVOA_L	VL038602.D	0.3	03142022T18:52:00	VL038645.D	0.282
0.090091042	2.602	MSVOA_L	VL038602.D	0.43	03142022T18:52:00	VL038645.D	0.468
0.055964125	2.602	MSVOA_L	VL038602.D	0.4	03142022T18:52:00	VL038645.D	0.392
0.033208182	2.602	MSVOA_L	VL038602.D	0.38	03142022T18:52:00	VL038645.D	0.407
0.066831349	2.602	MSVOA_L	VL038602.D	0.44	03142022T18:52:00	VL038645.D	0.454
0.029508191	2.602	MSVOA_L	VL038602.D	0.43	03142022T18:52:00	VL038645.D	0.408
0.044412039	2.602	MSVOA_L	VL038602.D	0.42	03142022T18:52:00	VL038645.D	0.433
0.021886069	2.602	MSVOA_L	VL038602.D	0.38	03142022T18:52:00	VL038645.D	0.31
0.052912467	2.602	MSVOA_L	VL038602.D	0.43	03142022T18:52:00	VL038645.D	0.404
0.060470378	2.602	MSVOA_L	VL038602.D	0.37	03142022T18:52:00	VL038645.D	0.357
0.004080441	2.602	MSVOA_L	VL038599.D	0.03	03142022T17:01:00	VL038658.D	0.026
0.028901845	2.602	MSVOA_L	VL038602.D	0.48	03142022T18:52:00	VL038645.D	0.467
0.033615225	2.602	MSVOA_L	VL038602.D	0.45	03142022T18:52:00	VL038645.D	0.468
0.062847932	2.602	MSVOA_L	VL038602.D	0.44	03142022T18:52:00	VL038645.D	0.453
0.031603534	2.602	MSVOA_L	VL038602.D	0.45	03142022T18:52:00	VL038645.D	0.464
0.037391621	2.602	MSVOA_L	VL038602.D	0.47	03142022T18:52:00	VL038645.D	0.439
0.033947938	2.602	MSVOA_L	VL038602.D	0.36	03142022T18:52:00	VL038645.D	0.391
0.024307749	2.602	MSVOA_L	VL038602.D	0.3	03142022T18:52:00	VL038645.D	0.317
0.083781636	2.602	MSVOA_L	VL038602.D	0.42	03142022T18:52:00	VL038645.D	0.414
0.02525132	2.602	MSVOA_L	VL038602.D	0.39	03142022T18:52:00	VL038645.D	0.359
0.080544708	2.602	MSVOA_L	VL038602.D	0.49	03142022T18:52:00	VL038645.D	0.43
0.033569579	2.602	MSVOA_L	VL038602.D	0.5	03142022T18:52:00	VL038645.D	0.472
0.030038864	2.602	MSVOA_L	VL038602.D	0.39	03142022T18:52:00	VL038645.D	0.412
0.044355712	2.602	MSVOA_L	VL038602.D	0.33	03142022T18:52:00	VL038645.D	0.357
0.038739676	2.602	MSVOA_L	VL038602.D	0.35	03142022T18:52:00	VL038645.D	0.349
0.032348107	2.602	MSVOA_L	VL038602.D	0.48	03142022T18:52:00	VL038645.D	0.5
0.04092432	2.602	MSVOA_L	VL038602.D	0.37	03142022T18:52:00	VL038645.D	0.411
0.026260236	2.602	MSVOA_L	VL038602.D	0.47	03142022T18:52:00	VL038645.D	0.44
0.033337666	2.602	MSVOA_L	VL038602.D	0.4	03142022T18:52:00	VL038645.D	0.387
0.079104967	2.602	MSVOA_L	VL038602.D	0.76	03142022T18:52:00	VL038645.D	0.762
0.032870389	2.602	MSVOA_L	VL038602.D	0.31	03142022T18:52:00	VL038645.D	0.334
0.045944169	2.602	MSVOA_L	VL038602.D	0.41	03142022T18:52:00	VL038645.D	0.418
0.070735069	2.602	MSVOA_L	VL038602.D	0.49	03142022T18:52:00	VL038645.D	0.479
0.02880907	2.602	MSVOA_L	VL038602.D	0.25	03142022T18:52:00	VL038645.D	0.289
0.057070096	2.602	MSVOA_L	VL038602.D	0.14	03142022T18:52:00	VL038645.D	0.074
0.031520826	2.602	MSVOA_L	VL038602.D	0.35	03142022T18:52:00	VL038645.D	0.366
0.029937087	2.602	MSVOA_L	VL038602.D	0.37	03142022T18:52:00	VL038645.D	0.365
0.045207623	2.602	MSVOA_L	VL038602.D	0.36	03142022T18:52:00	VL038645.D	0.368
0.032938073	2.602	MSVOA_L	VL038602.D	0.35	03142022T18:52:00	VL038645.D	0.366
0.05526165	2.602	MSVOA_L	VL038602.D	0.44	03142022T18:52:00	VL038645.D	0.443
0.035804795	2.602	MSVOA_L	VL038602.D	0.38	03142022T18:52:00	VL038645.D	0.392
0.042061661	2.602	MSVOA_L	VL038602.D	0.26	03142022T18:52:00	VL038645.D	0.275
0.022957116	2.602	MSVOA_L	VL038602.D	0.27	03142022T18:52:00	VL038645.D	0.29
0.072141412	2.602	MSVOA_L	VL038602.D	0.44	03142022T18:52:00	VL038645.D	0.459
0.035649626	2.602	MSVOA_L	VL038602.D	0.37	03142022T18:52:00	VL038645.D	0.405
0.005558402	2.602	MSVOA_L	VL038599.D	0.03	03142022T17:01:00	VL038658.D	0.031
0.047138758	2.602	MSVOA_L	VL038602.D	0.3	03142022T18:52:00	VL038645.D	0.324
0.042	2.602	MSVOA_L	VL038602.D	0.31	03142022T18:52:00	VL038645.D	0.332
0.07120086	2.602	MSVOA_L	VL038602.D	0.4	03142022T18:52:00	VL038645.D	0.396
0.006363634	2.602	MSVOA_L	VL038599.D	0.03	03142022T17:01:00	VL038658.D	0.035
0.060517215	2.602	MSVOA_L	VL038602.D	0.46	03142022T18:52:00	VL038645.D	0.472
0.058559372	2.602	MSVOA_L	VL038602.D	0.4	03142022T18:52:00	VL038645.D	0.389
0.00522135	2.602	MSVOA_L	VL038599.D	0.03	03142022T17:01:00	VL038658.D	0.031
0.105747594	2.998	MSVOA_L	VL040210.D	0.438	02222023T00:52:00	VL040220.D	0.43

Adate2	Datafile3	Concentration3	Adate3	Datafile4	Concentration4	Adate4	Datafile5
03182022T03:39:00	VL039242.D	0.45	06082022T19:44:00	VL039436.D	0.45	07062022T02:26:00	VL039568.D
03212022T20:11:00	VL039329.D	0.036	06222022T20:53:00	VL039439.D	0.033	07062022T09:13:00	VL039570.D
03212022T20:11:00	VL039329.D	0.029	06222022T20:53:00	VL039439.D	0.035	07062022T09:13:00	VL039570.D
03182022T03:39:00	VL039242.D	0.417	06082022T19:44:00	VL039436.D	0.445	07062022T02:26:00	VL039568.D
03182022T03:39:00	VL039242.D	0.615	06082022T19:44:00	VL039436.D	0.498	07062022T02:26:00	VL039568.D
03182022T03:39:00	VL039242.D	0.493	06082022T19:44:00	VL039436.D	0.545	07062022T02:26:00	VL039568.D
03182022T03:39:00	VL039242.D	0.594	06082022T19:44:00	VL039436.D	0.485	07062022T02:26:00	VL039568.D
03182022T03:39:00	VL039242.D	0.318	06082022T19:44:00	VL039436.D	0.328	07062022T02:26:00	VL039568.D
03182022T03:39:00	VL039242.D	0.389	06082022T19:44:00	VL039436.D	0.387	07062022T02:26:00	VL039568.D
03182022T03:39:00	VL039242.D	0.392	06082022T19:44:00	VL039436.D	0.391	07062022T02:26:00	VL039568.D
03182022T03:39:00	VL039242.D	0.409	06082022T19:44:00	VL039436.D	0.393	07062022T02:26:00	VL039568.D
03182022T03:39:00	VL039242.D	0.494	06082022T19:44:00	VL039436.D	0.435	07062022T02:26:00	VL039568.D
03182022T03:39:00	VL039242.D	0.404	06082022T19:44:00	VL039436.D	0.451	07062022T02:26:00	VL039568.D
03182022T03:39:00	VL039242.D	0.421	06082022T19:44:00	VL039436.D	0.397	07062022T02:26:00	VL039568.D
03182022T03:39:00	VL039242.D	0.583	06082022T19:44:00	VL039436.D	0.486	07062022T02:26:00	VL039568.D
03182022T03:39:00	VL039242.D	0.409	06082022T19:44:00	VL039436.D	0.465	07062022T02:26:00	VL039568.D
03182022T03:39:00	VL039242.D	0.392	06082022T19:44:00	VL039436.D	0.41	07062022T02:26:00	VL039568.D
03182022T03:39:00	VL039242.D	0.454	06082022T19:44:00	VL039436.D	0.535	07062022T02:26:00	VL039568.D
03182022T03:39:00	VL039242.D	0.37	06082022T19:44:00	VL039436.D	0.425	07062022T02:26:00	VL039568.D
03182022T03:39:00	VL039242.D	0.438	06082022T19:44:00	VL039436.D	0.482	07062022T02:26:00	VL039568.D
03182022T03:39:00	VL039242.D	0.415	06082022T19:44:00	VL039436.D	0.401	07062022T02:26:00	VL039568.D
03182022T03:39:00	VL039242.D	0.309	06082022T19:44:00	VL039436.D	0.31	07062022T02:26:00	VL039568.D
03182022T03:39:00	VL039242.D	0.391	06082022T19:44:00	VL039436.D	0.393	07062022T02:26:00	VL039568.D
03182022T03:39:00	VL039242.D	0.371	06082022T19:44:00	VL039436.D	0.372	07062022T02:26:00	VL039568.D
03182022T03:39:00	VL039242.D	0.649	06082022T19:44:00	VL039436.D	0.621	07062022T02:26:00	VL039568.D
03182022T03:39:00	VL039242.D	0.58	06082022T19:44:00	VL039436.D	0.45	07062022T02:26:00	VL039568.D
03182022T03:39:00	VL039242.D	0.391	06082022T19:44:00	VL039436.D	0.429	07062022T02:26:00	VL039568.D
03182022T03:39:00	VL039242.D	0.328	06082022T19:44:00	VL039436.D	0.438	07062022T02:26:00	VL039568.D
03182022T03:39:00	VL039242.D	0.398	06082022T19:44:00	VL039436.D	0.395	07062022T02:26:00	VL039568.D
03182022T03:39:00	VL039242.D	0.526	06082022T19:44:00	VL039436.D	0.475	07062022T02:26:00	VL039568.D
03182022T03:39:00	VL039242.D	0.335	06082022T19:44:00	VL039436.D	0.322	07062022T02:26:00	VL039568.D
03182022T03:39:00	VL039242.D	0.535	06082022T19:44:00	VL039436.D	0.503	07062022T02:26:00	VL039568.D
03182022T03:39:00	VL039242.D	0.494	06082022T19:44:00	VL039436.D	0.389	07062022T02:26:00	VL039568.D
03212022T20:11:00	VL039329.D	0.028	06222022T20:53:00	VL039439.D	0.03	07062022T09:13:00	VL039570.D
03182022T03:39:00	VL039242.D	0.418	06082022T19:44:00	VL039436.D	0.473	07062022T02:26:00	VL039568.D
03182022T03:39:00	VL039242.D	0.489	06082022T19:44:00	VL039436.D	0.483	07062022T02:26:00	VL039568.D
03182022T03:39:00	VL039242.D	0.595	06082022T19:44:00	VL039436.D	0.52	07062022T02:26:00	VL039568.D
03182022T03:39:00	VL039242.D	0.453	06082022T19:44:00	VL039436.D	0.469	07062022T02:26:00	VL039568.D
03182022T03:39:00	VL039242.D	0.5	06082022T19:44:00	VL039436.D	0.482	07062022T02:26:00	VL039568.D
03182022T03:39:00	VL039242.D	0.403	06082022T19:44:00	VL039436.D	0.434	07062022T02:26:00	VL039568.D
03182022T03:39:00	VL039242.D	0.315	06082022T19:44:00	VL039436.D	0.327	07062022T02:26:00	VL039568.D
03182022T03:39:00	VL039242.D	0.428	06082022T19:44:00	VL039436.D	0.512	07062022T02:26:00	VL039568.D
03182022T03:39:00	VL039242.D	0.359	06082022T19:44:00	VL039436.D	0.37	07062022T02:26:00	VL039568.D
03182022T03:39:00	VL039242.D	0.618	06082022T19:44:00	VL039436.D	0.675	07062022T02:26:00	VL039568.D
03182022T03:39:00	VL039242.D	0.551	06082022T19:44:00	VL039436.D	0.51	07062022T02:26:00	VL039568.D
03182022T03:39:00	VL039242.D	0.376	06082022T19:44:00	VL039436.D	0.441	07062022T02:26:00	VL039568.D
03182022T03:39:00	VL039242.D	0.374	06082022T19:44:00	VL039436.D	0.381	07062022T02:26:00	VL039568.D
03182022T03:39:00	VL039242.D	0.33	06082022T19:44:00	VL039436.D	0.41	07062022T02:26:00	VL039568.D
03182022T03:39:00	VL039242.D	0.444	06082022T19:44:00	VL039436.D	0.472	07062022T02:26:00	VL039568.D
03182022T03:39:00	VL039242.D	0.394	06082022T19:44:00	VL039436.D	0.47	07062022T02:26:00	VL039568.D
03182022T03:39:00	VL039242.D	0.504	06082022T19:44:00	VL039436.D	0.465	07062022T02:26:00	VL039568.D
03182022T03:39:00	VL039242.D	0.425	06082022T19:44:00	VL039436.D	0.416	07062022T02:26:00	VL039568.D
03182022T03:39:00	VL039242.D	0.815	06082022T19:44:00	VL039436.D	0.805	07062022T02:26:00	VL039568.D
03182022T03:39:00	VL039242.D	0.347	06082022T19:44:00	VL039436.D	0.361	07062022T02:26:00	VL039568.D
03182022T03:39:00	VL039242.D	0.492	06082022T19:44:00	VL039436.D	0.452	07062022T02:26:00	VL039568.D
03182022T03:39:00	VL039242.D	0.684	06082022T19:44:00	VL039436.D	0.578	07062022T02:26:00	VL039568.D
03182022T03:39:00	VL039242.D	0.282	06082022T19:44:00	VL039436.D	0.302	07062022T02:26:00	VL039568.D
03182022T03:39:00	VL039242.D	0.155	06082022T19:44:00	VL039436.D	0.143	07062022T02:26:00	VL039568.D
03182022T03:39:00	VL039242.D	0.39	06082022T19:44:00	VL039436.D	0.374	07062022T02:26:00	VL039568.D
03182022T03:39:00	VL039242.D	0.394	06082022T19:44:00	VL039436.D	0.397	07062022T02:26:00	VL039568.D
03182022T03:39:00	VL039242.D	0.421	06082022T19:44:00	VL039436.D	0.403	07062022T02:26:00	VL039568.D
03182022T03:39:00	VL039242.D	0.378	06082022T19:44:00	VL039436.D	0.388	07062022T02:26:00	VL039568.D
03182022T03:39:00	VL039242.D	0.435	06082022T19:44:00	VL039436.D	0.521	07062022T02:26:00	VL039568.D
03182022T03:39:00	VL039242.D	0.411	06082022T19:44:00	VL039436.D	0.406	07062022T02:26:00	VL039568.D
03182022T03:39:00	VL039242.D	0.345	06082022T19:44:00	VL039436.D	0.302	07062022T02:26:00	VL039568.D
03182022T03:39:00	VL039242.D	0.309	06082022T19:44:00	VL039436.D	0.279	07062022T02:26:00	VL039568.D
03182022T03:39:00	VL039242.D	0.655	06082022T19:44:00	VL039436.D	0.505	07062022T02:26:00	VL039568.D
03182022T03:39:00	VL039242.D	0.403	06082022T19:44:00	VL039436.D	0.388	07062022T02:26:00	VL039568.D
03212022T20:11:00	VL039329.D	0.036	06222022T20:53:00	VL039439.D	0.034	07062022T09:13:00	VL039570.D
03182022T03:39:00	VL039242.D	0.346	06082022T19:44:00	VL039436.D	0.38	07062022T02:26:00	VL039568.D
03182022T03:39:00	VL039242.D	0.341	06082022T19:44:00	VL039436.D	0.37	07062022T02:26:00	VL039568.D
03182022T03:39:00	VL039242.D	0.64	06082022T19:44:00	VL039436.D	0.494	07062022T02:26:00	VL039568.D
03212022T20:11:00	VL039329.D	0.038	06222022T20:53:00	VL039439.D	0.034	07062022T09:13:00	VL039570.D
03182022T03:39:00	VL039242.D	0.596	06082022T19:44:00	VL039436.D	0.492	07062022T02:26:00	VL039568.D
03182022T03:39:00	VL039242.D	0.418	06082022T19:44:00	VL039436.D	0.437	07062022T02:26:00	VL039568.D
03212022T20:11:00	VL039329.D	0.043	06222022T20:53:00	VL039439.D	0.036	07062022T09:13:00	VL039570.D
02232023T13:12:00	VL040329.D	0.51	04102023T17:39:00	VL040349.D	0.633	04122023T23:23:00	VL040559.D

Concentration5	Adate5	Datafile6	Concentration6	Adate6	Datafile7	Concentration7	Adate7
0.433	08182022T21:04:00	VL039600.D	0.463	08262022T12:33:00	VL039709.D	0.402	10102022T23:30:00
0.03	08182022T22:24:00	VL039586.D	0.031	08252022T20:23:00	VL039711.D	0.03	10112022T00:45:00
0.03	08182022T22:24:00	VL039586.D	0.029	08252022T20:23:00	VL039711.D	0.03	10112022T00:45:00
0.404	08182022T21:04:00	VL039600.D	0.424	08262022T12:33:00	VL039709.D	0.412	10102022T23:30:00
0.448	08182022T21:04:00	VL039600.D	0.454	08262022T12:33:00	VL039709.D	0.438	10102022T23:30:00
0.426	08182022T21:04:00	VL039600.D	0.451	08262022T12:33:00	VL039709.D	0.445	10102022T23:30:00
0.394	08182022T21:04:00	VL039600.D	0.387	08262022T12:33:00	VL039709.D	0.427	10102022T23:30:00
0.314	08182022T21:04:00	VL039600.D	0.367	08262022T12:33:00	VL039709.D	0.373	10102022T23:30:00
0.342	08182022T21:04:00	VL039600.D	0.389	08262022T12:33:00	VL039709.D	0.389	10102022T23:30:00
0.361	08182022T21:04:00	VL039600.D	0.402	08262022T12:33:00	VL039709.D	0.375	10102022T23:30:00
0.408	08182022T21:04:00	VL039600.D	0.431	08262022T12:33:00	VL039709.D	0.448	10102022T23:30:00
0.411	08182022T21:04:00	VL039600.D	0.455	08262022T12:33:00	VL039709.D	0.418	10102022T23:30:00
0.444	08182022T21:04:00	VL039600.D	0.429	08262022T12:33:00	VL039709.D	0.373	10102022T23:30:00
0.331	08182022T21:04:00	VL039600.D	0.357	08262022T12:33:00	VL039709.D	0.342	10102022T23:30:00
0.405	08182022T21:04:00	VL039600.D	0.449	08262022T12:33:00	VL039709.D	0.422	10102022T23:30:00
0.368	08182022T21:04:00	VL039600.D	0.414	08262022T12:33:00	VL039709.D	0.399	10102022T23:30:00
0.404	08182022T21:04:00	VL039600.D	0.384	08262022T12:33:00	VL039709.D	0.439	10102022T23:30:00
0.373	08182022T21:04:00	VL039600.D	0.341	08262022T12:33:00	VL039709.D	0.418	10102022T23:30:00
0.348	08182022T21:04:00	VL039600.D	0.379	08262022T12:33:00	VL039709.D	0.392	10102022T23:30:00
0.314	08182022T21:04:00	VL039600.D	0.451	08262022T12:33:00	VL039709.D	0.354	10102022T23:30:00
0.312	08182022T21:04:00	VL039600.D	0.359	08262022T12:33:00	VL039709.D	0.348	10102022T23:30:00
0.27	08182022T21:04:00	VL039600.D	0.294	08262022T12:33:00	VL039709.D	0.326	10102022T23:30:00
0.284	08182022T21:04:00	VL039600.D	0.348	08262022T12:33:00	VL039709.D	0.355	10102022T23:30:00
0.322	08182022T21:04:00	VL039600.D	0.335	08262022T12:33:00	VL039709.D	0.32	10102022T23:30:00
0.363	08182022T21:04:00	VL039600.D	0.484	08262022T12:33:00	VL039709.D	0.5	10102022T23:30:00
0.418	08182022T21:04:00	VL039600.D	0.459	08262022T12:33:00	VL039709.D	0.379	10102022T23:30:00
0.345	08182022T21:04:00	VL039600.D	0.376	08262022T12:33:00	VL039709.D	0.398	10102022T23:30:00
0.394	08182022T21:04:00	VL039600.D	0.336	08262022T12:33:00	VL039709.D	0.356	10102022T23:30:00
0.382	08182022T21:04:00	VL039600.D	0.367	08262022T12:33:00	VL039709.D	0.377	10102022T23:30:00
0.408	08182022T21:04:00	VL039600.D	0.441	08262022T12:33:00	VL039709.D	0.388	10102022T23:30:00
0.305	08182022T21:04:00	VL039600.D	0.303	08262022T12:33:00	VL039709.D	0.293	10102022T23:30:00
0.364	08182022T21:04:00	VL039600.D	0.494	08262022T12:33:00	VL039709.D	0.464	10102022T23:30:00
0.399	08182022T21:04:00	VL039600.D	0.268	08262022T12:33:00	VL039709.D	0.332	10102022T23:30:00
0.03	08182022T22:24:00	VL039586.D	0.027	08252022T20:23:00	VL039711.D	0.03	10112022T00:45:00
0.431	08182022T21:04:00	VL039600.D	0.466	08262022T12:33:00	VL039709.D	0.46	10102022T23:30:00
0.456	08182022T21:04:00	VL039600.D	0.504	08262022T12:33:00	VL039709.D	0.446	10102022T23:30:00
0.462	08182022T21:04:00	VL039600.D	0.504	08262022T12:33:00	VL039709.D	0.531	10102022T23:30:00
0.423	08182022T21:04:00	VL039600.D	0.46	08262022T12:33:00	VL039709.D	0.411	10102022T23:30:00
0.392	08182022T21:04:00	VL039600.D	0.472	08262022T12:33:00	VL039709.D	0.485	10102022T23:30:00
0.36	08182022T21:04:00	VL039600.D	0.407	08262022T12:33:00	VL039709.D	0.438	10102022T23:30:00
0.277	08182022T21:04:00	VL039600.D	0.291	08262022T12:33:00	VL039709.D	0.284	10102022T23:30:00
0.376	08182022T21:04:00	VL039600.D	0.395	08262022T12:33:00	VL039709.D	0.383	10102022T23:30:00
0.339	08182022T21:04:00	VL039600.D	0.335	08262022T12:33:00	VL039709.D	0.301	10102022T23:30:00
0.62	08182022T21:04:00	VL039600.D	0.643	08262022T12:33:00	VL039709.D	0.694	10102022T23:30:00
0.454	08182022T21:04:00	VL039600.D	0.508	08262022T12:33:00	VL039709.D	0.473	10102022T23:30:00
0.341	08182022T21:04:00	VL039600.D	0.432	08262022T12:33:00	VL039709.D	0.395	10102022T23:30:00
0.297	08182022T21:04:00	VL039600.D	0.338	08262022T12:33:00	VL039709.D	0.334	10102022T23:30:00
0.347	08182022T21:04:00	VL039600.D	0.382	08262022T12:33:00	VL039709.D	0.407	10102022T23:30:00
0.447	08182022T21:04:00	VL039600.D	0.502	08262022T12:33:00	VL039709.D	0.468	10102022T23:30:00
0.385	08182022T21:04:00	VL039600.D	0.405	08262022T12:33:00	VL039709.D	0.435	10102022T23:30:00
0.458	08182022T21:04:00	VL039600.D	0.434	08262022T12:33:00	VL039709.D	0.481	10102022T23:30:00
0.361	08182022T21:04:00	VL039600.D	0.388	08262022T12:33:00	VL039709.D	0.405	10102022T23:30:00
0.673	08182022T21:04:00	VL039600.D	0.719	08262022T12:33:00	VL039709.D	0.688	10102022T23:30:00
0.3	08182022T21:04:00	VL039600.D	0.323	08262022T12:33:00	VL039709.D	0.346	10102022T23:30:00
0.337	08182022T21:04:00	VL039600.D	0.355	08262022T12:33:00	VL039709.D	0.396	10102022T23:30:00
0.536	08182022T21:04:00	VL039600.D	0.634	08262022T12:33:00	VL039709.D	0.499	10102022T23:30:00
0.28	08182022T21:04:00	VL039600.D	0.302	08262022T12:33:00	VL039709.D	0.291	10102022T23:30:00
0.158	08182022T21:04:00	VL039600.D	0.094	08262022T12:33:00	VL039709.D	0.149	10102022T23:30:00
0.321	08182022T21:04:00	VL039600.D	0.354	08262022T12:33:00	VL039709.D	0.358	10102022T23:30:00
0.332	08182022T21:04:00	VL039600.D	0.338	08262022T12:33:00	VL039709.D	0.347	10102022T23:30:00
0.315	08182022T21:04:00	VL039600.D	0.347	08262022T12:33:00	VL039709.D	0.354	10102022T23:30:00
0.316	08182022T21:04:00	VL039600.D	0.362	08262022T12:33:00	VL039709.D	0.358	10102022T23:30:00
0.499	08182022T21:04:00	VL039600.D	0.578	08262022T12:33:00	VL039709.D	0.533	10102022T23:30:00
0.359	08182022T21:04:00	VL039600.D	0.382	08262022T12:33:00	VL039709.D	0.371	10102022T23:30:00
0.23	08182022T21:04:00	VL039600.D	0.257	08262022T12:33:00	VL039709.D	0.278	10102022T23:30:00
0.252	08182022T21:04:00	VL039600.D	0.252	08262022T12:33:00	VL039709.D	0.273	10102022T23:30:00
0.384	08182022T21:04:00	VL039600.D	0.382	08262022T12:33:00	VL039709.D	0.454	10102022T23:30:00
0.345	08182022T21:04:00	VL039600.D	0.399	08262022T12:33:00	VL039709.D	0.371	10102022T23:30:00
0.03	08182022T22:24:00	VL039586.D	0.038	08252022T20:23:00	VL039711.D	0.03	10112022T00:45:00
0.299	08182022T21:04:00	VL039600.D	0.344	08262022T12:33:00	VL039709.D	0.389	10102022T23:30:00
0.288	08182022T21:04:00	VL039600.D	0.296	08262022T12:33:00	VL039709.D	0.33	10102022T23:30:00
0.375	08182022T21:04:00	VL039600.D	0.466	08262022T12:33:00	VL039709.D	0.437	10102022T23:30:00
0.03	08182022T22:24:00	VL039586.D	0.031	08252022T20:23:00	VL039711.D	0.04	10112022T00:45:00
0.436	08182022T21:04:00	VL039600.D	0.47	08262022T12:33:00	VL039709.D	0.385	10102022T23:30:00
0.42	08182022T21:04:00	VL039600.D	0.483	08262022T12:33:00	VL039709.D	0.363	10102022T23:30:00
0.03	08182022T22:24:00	VL039586.D	0.029	08252022T20:23:00	VL039711.D	0.03	10112022T00:45:00
0.636	07272023T03:27:00	VL040579.D	0.42	07312023T19:20:00	VL040747.D	0.607	10042023T19:33:00

Datafile8	Concentration8	Adate8	Datafile9	Concentration9	Adate9	Datafile10	Concentration10
VL040134.D	0.42	01302023T15:54:00	VL040210.D	0.383	02222023T00:52:00	VL040220.D	0.42
VL040136.D	0.03	01302023T17:08:00	VL040222.D	0.038	02232023T14:26:00	VL040223.D	0.033
VL040136.D	0.03	01302023T17:08:00	VL040222.D	0.032	02232023T14:26:00	VL040223.D	0.027
VL040134.D	0.41	01302023T15:54:00	VL040210.D	0.395	02222023T00:52:00	VL040220.D	0.43
VL040134.D	0.38	01302023T15:54:00	VL040210.D	0.476	02222023T00:52:00	VL040220.D	0.47
VL040134.D	0.38	01302023T15:54:00	VL040210.D	0.436	02222023T00:52:00	VL040220.D	0.45
VL040134.D	0.4	01302023T15:54:00	VL040210.D	0.452	02222023T00:52:00	VL040220.D	0.45
VL040134.D	0.32	01302023T15:54:00	VL040210.D	0.299	02222023T00:52:00	VL040220.D	0.32
VL040134.D	0.37	01302023T15:54:00	VL040210.D	0.375	02222023T00:52:00	VL040220.D	0.37
VL040134.D	0.39	01302023T15:54:00	VL040210.D	0.38	02222023T00:52:00	VL040220.D	0.38
VL040134.D	0.38	01302023T15:54:00	VL040210.D	0.378	02222023T00:52:00	VL040220.D	0.43
VL040134.D	0.4	01302023T15:54:00	VL040210.D	0.434	02222023T00:52:00	VL040220.D	0.44
VL040134.D	0.41	01302023T15:54:00	VL040210.D	0.432	02222023T00:52:00	VL040220.D	0.43
VL040134.D	0.35	01302023T15:54:00	VL040210.D	0.344	02222023T00:52:00	VL040220.D	0.34
VL040134.D	0.43	01302023T15:54:00	VL040210.D	0.396	02222023T00:52:00	VL040220.D	0.41
VL040134.D	0.37	01302023T15:54:00	VL040210.D	0.395	02222023T00:52:00	VL040220.D	0.42
VL040134.D	0.4	01302023T15:54:00	VL040210.D	0.402	02222023T00:52:00	VL040220.D	0.4
VL040134.D	0.41	01302023T15:54:00	VL040210.D	0.387	02222023T00:52:00	VL040220.D	0.43
VL040134.D	0.39	01302023T15:54:00	VL040210.D	0.352	02222023T00:52:00	VL040220.D	0.38
VL040134.D	0.38	01302023T15:54:00	VL040210.D	0.416	02222023T00:52:00	VL040220.D	0.44
VL040134.D	0.36	01302023T15:54:00	VL040210.D	0.34	02222023T00:52:00	VL040220.D	0.36
VL040134.D	0.32	01302023T15:54:00	VL040210.D	0.318	02222023T00:52:00	VL040220.D	0.34
VL040134.D	0.35	01302023T15:54:00	VL040210.D	0.321	02222023T00:52:00	VL040220.D	0.36
VL040134.D	0.36	01302023T15:54:00	VL040210.D	0.337	02222023T00:52:00	VL040220.D	0.37
VL040134.D	0.45	01302023T15:54:00	VL040210.D	0.482	02222023T00:52:00	VL040220.D	0.5
VL040134.D	0.36	01302023T15:54:00	VL040210.D	0.411	02222023T00:52:00	VL040220.D	0.45
VL040134.D	0.38	01302023T15:54:00	VL040210.D	0.359	02222023T00:52:00	VL040220.D	0.39
VL040134.D	0.29	01302023T15:54:00	VL040210.D	0.311	02222023T00:52:00	VL040220.D	0.38
VL040134.D	0.37	01302023T15:54:00	VL040210.D	0.378	02222023T00:52:00	VL040220.D	0.38
VL040134.D	0.37	01302023T15:54:00	VL040210.D	0.413	02222023T00:52:00	VL040220.D	0.42
VL040134.D	0.32	01302023T15:54:00	VL040210.D	0.32	02222023T00:52:00	VL040220.D	0.33
VL040134.D	0.4	01302023T15:54:00	VL040210.D	0.408	02222023T00:52:00	VL040220.D	0.49
VL040134.D	0.31	01302023T15:54:00	VL040210.D	0.391	02222023T00:52:00	VL040220.D	0.37
VL040136.D	0.03	01302023T17:08:00	VL040222.D	0.033	02232023T14:26:00	VL040223.D	0.037
VL040134.D	0.44	01302023T15:54:00	VL040210.D	0.414	02222023T00:52:00	VL040220.D	0.45
VL040134.D	0.43	01302023T15:54:00	VL040210.D	0.474	02222023T00:52:00	VL040220.D	0.46
VL040134.D	0.37	01302023T15:54:00	VL040210.D	0.416	02222023T00:52:00	VL040220.D	0.44
VL040134.D	0.47	01302023T15:54:00	VL040210.D	0.445	02222023T00:52:00	VL040220.D	0.42
VL040134.D	0.46	01302023T15:54:00	VL040210.D	0.443	02222023T00:52:00	VL040220.D	0.47
VL040134.D	0.38	01302023T15:54:00	VL040210.D	0.435	02222023T00:52:00	VL040220.D	0.38
VL040134.D	0.33	01302023T15:54:00	VL040210.D	0.284	02222023T00:52:00	VL040220.D	0.34
VL040134.D	0.49	01302023T15:54:00	VL040210.D	0.521	02222023T00:52:00	VL040220.D	0.34
VL040134.D	0.35	01302023T15:54:00	VL040210.D	0.343	02222023T00:52:00	VL040220.D	0.34
VL040134.D	0.48	01302023T15:54:00	VL040210.D	0.497	02222023T00:52:00	VL040220.D	0.49
VL040134.D	0.43	01302023T15:54:00	VL040210.D	0.431	02222023T00:52:00	VL040220.D	0.46
VL040134.D	0.39	01302023T15:54:00	VL040210.D	0.398	02222023T00:52:00	VL040220.D	0.42
VL040134.D	0.36	01302023T15:54:00	VL040210.D	0.309	02222023T00:52:00	VL040220.D	0.33
VL040134.D	0.34	01302023T15:54:00	VL040210.D	0.336	02222023T00:52:00	VL040220.D	0.37
VL040134.D	0.43	01302023T15:54:00	VL040210.D	0.421	02222023T00:52:00	VL040220.D	0.44
VL040134.D	0.41	01302023T15:54:00	VL040210.D	0.4	02222023T00:52:00	VL040220.D	0.41
VL040134.D	0.4	01302023T15:54:00	VL040210.D	0.479	02222023T00:52:00	VL040220.D	0.48
VL040134.D	0.38	01302023T15:54:00	VL040210.D	0.361	02222023T00:52:00	VL040220.D	0.4
VL040134.D	0.71	01302023T15:54:00	VL040210.D	0.699	02222023T00:52:00	VL040220.D	0.75
VL040134.D	0.35	01302023T15:54:00	VL040210.D	0.314	02222023T00:52:00	VL040220.D	0.35
VL040134.D	0.38	01302023T15:54:00	VL040210.D	0.421	02222023T00:52:00	VL040220.D	0.41
VL040134.D	0.44	01302023T15:54:00	VL040210.D	0.558	02222023T00:52:00	VL040220.D	0.57
VL040134.D	0.27	01302023T15:54:00	VL040210.D	0.246	02222023T00:52:00	VL040220.D	0.27
VL040134.D	0.19	01302023T15:54:00	VL040210.D	0.116	02222023T00:52:00	VL040220.D	0.21
VL040134.D	0.34	01302023T15:54:00	VL040210.D	0.349	02222023T00:52:00	VL040220.D	0.35
VL040134.D	0.34	01302023T15:54:00	VL040210.D	0.354	02222023T00:52:00	VL040220.D	0.36
VL040134.D	0.34	01302023T15:54:00	VL040210.D	0.331	02222023T00:52:00	VL040220.D	0.36
VL040134.D	0.33	01302023T15:54:00	VL040210.D	0.329	02222023T00:52:00	VL040220.D	0.34
VL040134.D	0.42	01302023T15:54:00	VL040210.D	0.432	02222023T00:52:00	VL040220.D	0.43
VL040134.D	0.36	01302023T15:54:00	VL040210.D	0.352	02222023T00:52:00	VL040220.D	0.37
VL040134.D	0.29	01302023T15:54:00	VL040210.D	0.262	02222023T00:52:00	VL040220.D	0.27
VL040134.D	0.3	01302023T15:54:00	VL040210.D	0.292	02222023T00:52:00	VL040220.D	0.3
VL040134.D	0.4	01302023T15:54:00	VL040210.D	0.395	02222023T00:52:00	VL040220.D	0.44
VL040134.D	0.35	01302023T15:54:00	VL040210.D	0.349	02222023T00:52:00	VL040220.D	0.36
VL040136.D	0.03	01302023T17:08:00	VL040222.D	0.029	02232023T14:26:00	VL040223.D	0.031
VL040134.D	0.42	01302023T15:54:00	VL040210.D	0.368	02222023T00:52:00	VL040220.D	0.42
VL040134.D	0.34	01302023T15:54:00	VL040210.D	0.297	02222023T00:52:00	VL040220.D	0.33
VL040134.D	0.35	01302023T15:54:00	VL040210.D	0.397	02222023T00:52:00	VL040220.D	0.42
VL040136.D	0.03	01302023T17:08:00	VL040222.D	0.027	02232023T14:26:00	VL040223.D	0.028
VL040134.D	0.4	01302023T15:54:00	VL040210.D	0.451	02222023T00:52:00	VL040220.D	0.45
VL040134.D	0.39	01302023T15:54:00	VL040210.D	0.438	02222023T00:52:00	VL040220.D	0.4
VL040136.D	0.03	01302023T17:08:00	VL040222.D	0.033	02232023T14:26:00	VL040223.D	0.038
VL040805.D	0.675	10252023T18:12:00					

Adate10	Datafile11	Concentration11	Adate11	Datafile12	Concentration12	Adate12	Datafile13
02232023T13:12:00	VL040329.D	0.45	04102023T17:39:00	VL040349.D	0.434	04122023T23:23:00	VL040559.D
02232023T15:04:00	VL040332.D	0.028	04102023T19:33:00	VL040346.D	0.027	04122023T19:50:00	VL040576.D
02232023T15:04:00	VL040332.D	0.023	04102023T19:33:00	VL040346.D	0.03	04122023T19:50:00	VL040576.D
02232023T13:12:00	VL040329.D	0.41	04102023T17:39:00	VL040349.D	0.403	04122023T23:23:00	VL040559.D
02232023T13:12:00	VL040329.D	0.42	04102023T17:39:00	VL040349.D	0.429	04122023T23:23:00	VL040559.D
02232023T13:12:00	VL040329.D	0.43	04102023T17:39:00	VL040349.D	0.4	04122023T23:23:00	VL040559.D
02232023T13:12:00	VL040329.D	0.44	04102023T17:39:00	VL040349.D	0.419	04122023T23:23:00	VL040559.D
02232023T13:12:00	VL040329.D	0.3	04102023T17:39:00	VL040349.D	0.302	04122023T23:23:00	VL040559.D
02232023T13:12:00	VL040329.D	0.34	04102023T17:39:00	VL040349.D	0.362	04122023T23:23:00	VL040559.D
02232023T13:12:00	VL040329.D	0.37	04102023T17:39:00	VL040349.D	0.398	04122023T23:23:00	VL040559.D
02232023T13:12:00	VL040329.D	0.38	04102023T17:39:00	VL040349.D	0.402	04122023T23:23:00	VL040559.D
02232023T13:12:00	VL040329.D	0.45	04102023T17:39:00	VL040349.D	0.427	04122023T23:23:00	VL040559.D
02232023T13:12:00	VL040329.D	0.41	04102023T17:39:00	VL040349.D	0.385	04122023T23:23:00	VL040559.D
02232023T13:12:00	VL040329.D	0.33	04102023T17:39:00	VL040349.D	0.311	04122023T23:23:00	VL040559.D
02232023T13:12:00	VL040329.D	0.38	04102023T17:39:00	VL040349.D	0.448	04122023T23:23:00	VL040559.D
02232023T13:12:00	VL040329.D	0.38	04102023T17:39:00	VL040349.D	0.392	04122023T23:23:00	VL040559.D
02232023T13:12:00	VL040329.D	0.39	04102023T17:39:00	VL040349.D	0.402	04122023T23:23:00	VL040559.D
02232023T13:12:00	VL040329.D	0.33	04102023T17:39:00	VL040349.D	0.33	04122023T23:23:00	VL040559.D
02232023T13:12:00	VL040329.D	0.35	04102023T17:39:00	VL040349.D	0.356	04122023T23:23:00	VL040559.D
02232023T13:12:00	VL040329.D	0.45	04102023T17:39:00	VL040349.D	0.451	04122023T23:23:00	VL040559.D
02232023T13:12:00	VL040329.D	0.32	04102023T17:39:00	VL040349.D	0.31	04122023T23:23:00	VL040559.D
02232023T13:12:00	VL040329.D	0.28	04102023T17:39:00	VL040349.D	0.29	04122023T23:23:00	VL040559.D
02232023T13:12:00	VL040329.D	0.32	04102023T17:39:00	VL040349.D	0.303	04122023T23:23:00	VL040559.D
02232023T13:12:00	VL040329.D	0.33	04102023T17:39:00	VL040349.D	0.339	04122023T23:23:00	VL040559.D
02232023T13:12:00	VL040329.D	0.58	04102023T17:39:00	VL040349.D	0.582	04122023T23:23:00	VL040559.D
02232023T13:12:00	VL040329.D	0.39	04102023T17:39:00	VL040349.D	0.402	04122023T23:23:00	VL040559.D
02232023T13:12:00	VL040329.D	0.37	04102023T17:39:00	VL040349.D	0.365	04122023T23:23:00	VL040559.D
02232023T13:12:00	VL040329.D	0.37	04102023T17:39:00	VL040349.D	0.421	04122023T23:23:00	VL040559.D
02232023T13:12:00	VL040329.D	0.38	04102023T17:39:00	VL040349.D	0.397	04122023T23:23:00	VL040559.D
02232023T13:12:00	VL040329.D	0.41	04102023T17:39:00	VL040349.D	0.415	04122023T23:23:00	VL040559.D
02232023T13:12:00	VL040329.D	0.31	04102023T17:39:00	VL040349.D	0.337	04122023T23:23:00	VL040559.D
02232023T13:12:00	VL040329.D	0.44	04102023T17:39:00	VL040349.D	0.51	04122023T23:23:00	VL040559.D
02232023T13:12:00	VL040329.D	0.34	04102023T17:39:00	VL040349.D	0.342	04122023T23:23:00	VL040559.D
02232023T15:04:00	VL040332.D	0.028	04102023T19:33:00	VL040346.D	0.025	04122023T19:50:00	VL040576.D
02232023T13:12:00	VL040329.D	0.45	04102023T17:39:00	VL040349.D	0.433	04122023T23:23:00	VL040559.D
02232023T13:12:00	VL040329.D	0.45	04102023T17:39:00	VL040349.D	0.453	04122023T23:23:00	VL040559.D
02232023T13:12:00	VL040329.D	0.4	04102023T17:39:00	VL040349.D	0.487	04122023T23:23:00	VL040559.D
02232023T13:12:00	VL040329.D	0.43	04102023T17:39:00	VL040349.D	0.456	04122023T23:23:00	VL040559.D
02232023T13:12:00	VL040329.D	0.47	04102023T17:39:00	VL040349.D	0.455	04122023T23:23:00	VL040559.D
02232023T13:12:00	VL040329.D	0.38	04102023T17:39:00	VL040349.D	0.376	04122023T23:23:00	VL040559.D
02232023T13:12:00	VL040329.D	0.29	04102023T17:39:00	VL040349.D	0.287	04122023T23:23:00	VL040559.D
02232023T13:12:00	VL040329.D	0.29	04102023T17:39:00	VL040349.D	0.35	04122023T23:23:00	VL040559.D
02232023T13:12:00	VL040329.D	0.35	04102023T17:39:00	VL040349.D	0.339	04122023T23:23:00	VL040559.D
02232023T13:12:00	VL040329.D	0.51	04102023T17:39:00	VL040349.D	0.483	04122023T23:23:00	VL040559.D
02232023T13:12:00	VL040329.D	0.46	04102023T17:39:00	VL040349.D	0.467	04122023T23:23:00	VL040559.D
02232023T13:12:00	VL040329.D	0.39	04102023T17:39:00	VL040349.D	0.394	04122023T23:23:00	VL040559.D
02232023T13:12:00	VL040329.D	0.32	04102023T17:39:00	VL040349.D	0.31	04122023T23:23:00	VL040559.D
02232023T13:12:00	VL040329.D	0.33	04102023T17:39:00	VL040349.D	0.336	04122023T23:23:00	VL040559.D
02232023T13:12:00	VL040329.D	0.45	04102023T17:39:00	VL040349.D	0.441	04122023T23:23:00	VL040559.D
02232023T13:12:00	VL040329.D	0.37	04102023T17:39:00	VL040349.D	0.365	04122023T23:23:00	VL040559.D
02232023T13:12:00	VL040329.D	0.47	04102023T17:39:00	VL040349.D	0.442	04122023T23:23:00	VL040559.D
02232023T13:12:00	VL040329.D	0.38	04102023T17:39:00	VL040349.D	0.363	04122023T23:23:00	VL040559.D
02232023T13:12:00	VL040329.D	0.66	04102023T17:39:00	VL040349.D	0.659	04122023T23:23:00	VL040559.D
02232023T13:12:00	VL040329.D	0.31	04102023T17:39:00	VL040349.D	0.305	04122023T23:23:00	VL040559.D
02232023T13:12:00	VL040329.D	0.41	04102023T17:39:00	VL040349.D	0.362	04122023T23:23:00	VL040559.D
02232023T13:12:00	VL040329.D	0.47	04102023T17:39:00	VL040349.D	0.533	04122023T23:23:00	VL040559.D
02232023T13:12:00	VL040329.D	0.26	04102023T17:39:00	VL040349.D	0.261	04122023T23:23:00	VL040559.D
02232023T13:12:00	VL040329.D	0.21	04102023T17:39:00	VL040349.D	0.19	04122023T23:23:00	VL040559.D
02232023T13:12:00	VL040329.D	0.33	04102023T17:39:00	VL040349.D	0.334	04122023T23:23:00	VL040559.D
02232023T13:12:00	VL040329.D	0.35	04102023T17:39:00	VL040349.D	0.345	04122023T23:23:00	VL040559.D
02232023T13:12:00	VL040329.D	0.31	04102023T17:39:00	VL040349.D	0.327	04122023T23:23:00	VL040559.D
02232023T13:12:00	VL040329.D	0.32	04102023T17:39:00	VL040349.D	0.314	04122023T23:23:00	VL040559.D
02232023T13:12:00	VL040329.D	0.42	04102023T17:39:00	VL040349.D	0.465	04122023T23:23:00	VL040559.D
02232023T13:12:00	VL040329.D	0.35	04102023T17:39:00	VL040349.D	0.335	04122023T23:23:00	VL040559.D
02232023T13:12:00	VL040329.D	0.26	04102023T17:39:00	VL040349.D	0.257	04122023T23:23:00	VL040559.D
02232023T13:12:00	VL040329.D	0.27	04102023T17:39:00	VL040349.D	0.256	04122023T23:23:00	VL040559.D
02232023T13:12:00	VL040329.D	0.46	04102023T17:39:00	VL040349.D	0.427	04122023T23:23:00	VL040559.D
02232023T13:12:00	VL040329.D	0.34	04102023T17:39:00	VL040349.D	0.327	04122023T23:23:00	VL040559.D
02232023T15:04:00	VL040332.D	0.022	04102023T19:33:00	VL040346.D	0.029	04122023T19:50:00	VL040576.D
02232023T13:12:00	VL040329.D	0.3	04102023T17:39:00	VL040349.D	0.347	04122023T23:23:00	VL040559.D
02232023T13:12:00	VL040329.D	0.29	04102023T17:39:00	VL040349.D	0.291	04122023T23:23:00	VL040559.D
02232023T13:12:00	VL040329.D	0.37	04102023T17:39:00	VL040349.D	0.391	04122023T23:23:00	VL040559.D
02232023T15:04:00	VL040332.D	0.029	04102023T19:33:00	VL040346.D	0.028	04122023T19:50:00	VL040576.D
02232023T13:12:00	VL040329.D	0.45	04102023T17:39:00	VL040349.D	0.47	04122023T23:23:00	VL040559.D
02232023T13:12:00	VL040329.D	0.37	04102023T17:39:00	VL040349.D	0.58	04122023T23:23:00	VL040559.D
02232023T15:04:00	VL040332.D	0.024	04102023T19:33:00	VL040346.D	0.029	04122023T19:50:00	VL040576.D

Concentration13	Adate13	Datafile14	Concentration14	Adate14	Datafile15	Concentration15	Adate15
0.48	07272023T03:27:00	VL040579.D	0.42	07312023T19:20:00	VL040747.D	0.488	10042023T19:33:00
0.03	07312023T17:18:00	VL040581.D	0.031	07312023T20:41:00	VL040772.D	0.035	10122023T01:48:00
0.031	07312023T17:18:00	VL040581.D	0.026	07312023T20:41:00	VL040772.D	0.029	10122023T01:48:00
0.459	07272023T03:27:00	VL040579.D	0.36	07312023T19:20:00	VL040747.D	0.405	10042023T19:33:00
0.573	07272023T03:27:00	VL040579.D	0.5	07312023T19:20:00	VL040747.D	0.557	10042023T19:33:00
0.535	07272023T03:27:00	VL040579.D	0.43	07312023T19:20:00	VL040747.D	0.527	10042023T19:33:00
0.527	07272023T03:27:00	VL040579.D	0.42	07312023T19:20:00	VL040747.D	0.481	10042023T19:33:00
0.33	07272023T03:27:00	VL040579.D	0.23	07312023T19:20:00	VL040747.D	0.305	10042023T19:33:00
0.389	07272023T03:27:00	VL040579.D	0.3	07312023T19:20:00	VL040747.D	0.361	10042023T19:33:00
0.425	07272023T03:27:00	VL040579.D	0.32	07312023T19:20:00	VL040747.D	0.359	10042023T19:33:00
0.442	07272023T03:27:00	VL040579.D	0.36	07312023T19:20:00	VL040747.D	0.45	10042023T19:33:00
0.519	07272023T03:27:00	VL040579.D	0.41	07312023T19:20:00	VL040747.D	0.426	10042023T19:33:00
0.452	07272023T03:27:00	VL040579.D	0.36	07312023T19:20:00	VL040747.D	0.42	10042023T19:33:00
0.33	07272023T03:27:00	VL040579.D	0.26	07312023T19:20:00	VL040747.D	0.321	10042023T19:33:00
0.412	07272023T03:27:00	VL040579.D	0.41	07312023T19:20:00	VL040747.D	0.466	10042023T19:33:00
0.388	07272023T03:27:00	VL040579.D	0.33	07312023T19:20:00	VL040747.D	0.412	10042023T19:33:00
0.438	07272023T03:27:00	VL040579.D	0.36	07312023T19:20:00	VL040747.D	0.382	10042023T19:33:00
0.373	07272023T03:27:00	VL040579.D	0.29	07312023T19:20:00	VL040747.D	0.257	10042023T19:33:00
0.398	07272023T03:27:00	VL040579.D	0.27	07312023T19:20:00	VL040747.D	0.335	10042023T19:33:00
0.448	07272023T03:27:00	VL040579.D	0.37	07312023T19:20:00	VL040747.D	0.443	10042023T19:33:00
0.35	07272023T03:27:00	VL040579.D	0.27	07312023T19:20:00	VL040747.D	0.325	10042023T19:33:00
0.303	07272023T03:27:00	VL040579.D	0.22	07312023T19:20:00	VL040747.D	0.283	10042023T19:33:00
0.32	07272023T03:27:00	VL040579.D	0.23	07312023T19:20:00	VL040747.D	0.317	10042023T19:33:00
0.348	07272023T03:27:00	VL040579.D	0.27	07312023T19:20:00	VL040747.D	0.302	10042023T19:33:00
0.674	07272023T03:27:00	VL040579.D	0.48	07312023T19:20:00	VL040747.D	0.65	10042023T19:33:00
0.436	07272023T03:27:00	VL040579.D	0.37	07312023T19:20:00	VL040747.D	0.511	10042023T19:33:00
0.397	07272023T03:27:00	VL040579.D	0.3	07312023T19:20:00	VL040747.D	0.386	10042023T19:33:00
0.425	07272023T03:27:00	VL040579.D	0.34	07312023T19:20:00	VL040747.D	0.307	10042023T19:33:00
0.467	07272023T03:27:00	VL040579.D	0.4	07312023T19:20:00	VL040747.D	0.409	10042023T19:33:00
0.508	07272023T03:27:00	VL040579.D	0.42	07312023T19:20:00	VL040747.D	0.506	10042023T19:33:00
0.352	07272023T03:27:00	VL040579.D	0.33	07312023T19:20:00	VL040747.D	0.349	10042023T19:33:00
0.543	07272023T03:27:00	VL040579.D	0.46	07312023T19:20:00	VL040747.D	0.496	10042023T19:33:00
0.46	07272023T03:27:00	VL040579.D	0.42	07312023T19:20:00	VL040747.D	0.477	10042023T19:33:00
0.036	07312023T17:18:00	VL040581.D	0.033	07312023T20:41:00	VL040772.D	0.031	10122023T01:48:00
0.481	07272023T03:27:00	VL040579.D	0.38	07312023T19:20:00	VL040747.D	0.489	10042023T19:33:00
0.526	07272023T03:27:00	VL040579.D	0.45	07312023T19:20:00	VL040747.D	0.55	10042023T19:33:00
0.516	07272023T03:27:00	VL040579.D	0.43	07312023T19:20:00	VL040747.D	0.576	10042023T19:33:00
0.521	07272023T03:27:00	VL040579.D	0.41	07312023T19:20:00	VL040747.D	0.501	10042023T19:33:00
0.486	07272023T03:27:00	VL040579.D	0.39	07312023T19:20:00	VL040747.D	0.544	10042023T19:33:00
0.405	07272023T03:27:00	VL040579.D	0.32	07312023T19:20:00	VL040747.D	0.431	10042023T19:33:00
0.295	07272023T03:27:00	VL040579.D	0.25	07312023T19:20:00	VL040747.D	0.298	10042023T19:33:00
0.301	07272023T03:27:00	VL040579.D	0.21	07312023T19:20:00	VL040747.D	0.317	10042023T19:33:00
0.403	07272023T03:27:00	VL040579.D	0.35	07312023T19:20:00	VL040747.D	0.381	10042023T19:33:00
0.54	07272023T03:27:00	VL040579.D	0.47	07312023T19:20:00	VL040747.D	0.562	10042023T19:33:00
0.516	07272023T03:27:00	VL040579.D	0.46	07312023T19:20:00	VL040747.D	0.509	10042023T19:33:00
0.424	07272023T03:27:00	VL040579.D	0.34	07312023T19:20:00	VL040747.D	0.441	10042023T19:33:00
0.32	07272023T03:27:00	VL040579.D	0.21	07312023T19:20:00	VL040747.D	0.299	10042023T19:33:00
0.341	07272023T03:27:00	VL040579.D	0.25	07312023T19:20:00	VL040747.D	0.355	10042023T19:33:00
0.466	07272023T03:27:00	VL040579.D	0.37	07312023T19:20:00	VL040747.D	0.479	10042023T19:33:00
0.38	07272023T03:27:00	VL040579.D	0.31	07312023T19:20:00	VL040747.D	0.465	10042023T19:33:00
0.451	07272023T03:27:00	VL040579.D	0.43	07312023T19:20:00	VL040747.D	0.426	10042023T19:33:00
0.379	07272023T03:27:00	VL040579.D	0.29	07312023T19:20:00	VL040747.D	0.386	10042023T19:33:00
0.735	07272023T03:27:00	VL040579.D	0.54	07312023T19:20:00	VL040747.D	0.682	10042023T19:33:00
0.283	07272023T03:27:00	VL040579.D	0.23	07312023T19:20:00	VL040747.D	0.324	10042023T19:33:00
0.468	07272023T03:27:00	VL040579.D	0.38	07312023T19:20:00	VL040747.D	0.472	10042023T19:33:00
0.619	07272023T03:27:00	VL040579.D	0.62	07312023T19:20:00	VL040747.D	0.625	10042023T19:33:00
0.274	07272023T03:27:00	VL040579.D	0.19	07312023T19:20:00	VL040747.D	0.258	10042023T19:33:00
0.107	07272023T03:27:00	VL040579.D	0.06	07312023T19:20:00	VL040747.D	0.133	10042023T19:33:00
0.361	07272023T03:27:00	VL040579.D	0.27	07312023T19:20:00	VL040747.D	0.343	10042023T19:33:00
0.355	07272023T03:27:00	VL040579.D	0.27	07312023T19:20:00	VL040747.D	0.369	10042023T19:33:00
0.355	07272023T03:27:00	VL040579.D	0.26	07312023T19:20:00	VL040747.D	0.301	10042023T19:33:00
0.357	07272023T03:27:00	VL040579.D	0.26	07312023T19:20:00	VL040747.D	0.313	10042023T19:33:00
0.436	07272023T03:27:00	VL040579.D	0.34	07312023T19:20:00	VL040747.D	0.471	10042023T19:33:00
0.393	07272023T03:27:00	VL040579.D	0.29	07312023T19:20:00	VL040747.D	0.354	10042023T19:33:00
0.242	07272023T03:27:00	VL040579.D	0.17	07312023T19:20:00	VL040747.D	0.266	10042023T19:33:00
0.283	07272023T03:27:00	VL040579.D	0.23	07312023T19:20:00	VL040747.D	0.312	10042023T19:33:00
0.539	07272023T03:27:00	VL040579.D	0.43	07312023T19:20:00	VL040747.D	0.394	10042023T19:33:00
0.366	07272023T03:27:00	VL040579.D	0.28	07312023T19:20:00	VL040747.D	0.381	10042023T19:33:00
0.025	07312023T17:18:00	VL040581.D	0.028	07312023T20:41:00	VL040772.D	0.044	10122023T01:48:00
0.353	07272023T03:27:00	VL040579.D	0.26	07312023T19:20:00	VL040747.D	0.351	10042023T19:33:00
0.285	07272023T03:27:00	VL040579.D	0.2	07312023T19:20:00	VL040747.D	0.288	10042023T19:33:00
0.477	07272023T03:27:00	VL040579.D	0.4	07312023T19:20:00	VL040747.D	0.507	10042023T19:33:00
0.027	07312023T17:18:00	VL040581.D	0.027	07312023T20:41:00	VL040772.D	0.039	10122023T01:48:00
0.589	07272023T03:27:00	VL040579.D	0.52	07312023T19:20:00	VL040747.D	0.561	10042023T19:33:00
0.487	07272023T03:27:00	VL040579.D	0.46	07312023T19:20:00	VL040747.D	0.456	10042023T19:33:00
0.03	07312023T17:18:00	VL040581.D	0.033	07312023T20:41:00	VL040772.D	0.041	10122023T01:48:00

Datafile16	Concentration16	Adate16	Department	AVG Concentration	Recovery
VL040805.D	0.428	10252023T18:12:00	VOC	0.45	110
VL040787.D	0.04	10232023T20:32:00	VOC	0.032	110
VL040787.D	0.04	10232023T20:32:00	VOC	0.03	100
VL040805.D	0.471	10252023T18:12:00	VOC	0.42	110
VL040805.D	0.476	10252023T18:12:00	VOC	0.48	120
VL040805.D	0.427	10252023T18:12:00	VOC	0.46	110
VL040805.D	0.47	10252023T18:12:00	VOC	0.45	110
VL040805.D	0.288	10252023T18:12:00	VOC	0.31	79
VL040805.D	0.435	10252023T18:12:00	VOC	0.37	93
VL040805.D	0.433	10252023T18:12:00	VOC	0.38	95
VL040805.D	0.405	10252023T18:12:00	VOC	0.41	100
VL040805.D	0.501	10252023T18:12:00	VOC	0.44	110
VL040805.D	0.456	10252023T18:12:00	VOC	0.42	100
VL040805.D	0.403	10252023T18:12:00	VOC	0.35	87
VL040805.D	0.455	10252023T18:12:00	VOC	0.44	110
VL040805.D	0.412	10252023T18:12:00	VOC	0.4	100
VL040805.D	0.414	10252023T18:12:00	VOC	0.4	100
VL040805.D	0.486	10252023T18:12:00	VOC	0.38	96
VL040805.D	0.434	10252023T18:12:00	VOC	0.37	93
VL040805.D	0.467	10252023T18:12:00	VOC	0.42	100
VL040805.D	0.42	10252023T18:12:00	VOC	0.35	88
VL040805.D	0.353	10252023T18:12:00	VOC	0.3	75
VL040805.D	0.397	10252023T18:12:00	VOC	0.34	84
VL040805.D	0.403	10252023T18:12:00	VOC	0.34	84
VL040805.D	0.576	10252023T18:12:00	VOC	0.53	130
VL040805.D	0.422	10252023T18:12:00	VOC	0.43	110
VL040805.D	0.445	10252023T18:12:00	VOC	0.38	96
VL040805.D	0.205	10252023T18:12:00	VOC	0.36	91
VL040805.D	0.458	10252023T18:12:00	VOC	0.4	100
VL040805.D	0.436	10252023T18:12:00	VOC	0.44	110
VL040805.D	0.34	10252023T18:12:00	VOC	0.33	82
VL040805.D	0.508	10252023T18:12:00	VOC	0.47	120
VL040805.D	0.361	10252023T18:12:00	VOC	0.38	95
VL040787.D	0.04	10232023T20:32:00	VOC	0.031	100
VL040805.D	0.454	10252023T18:12:00	VOC	0.45	110
VL040805.D	0.517	10252023T18:12:00	VOC	0.48	120
VL040805.D	0.435	10252023T18:12:00	VOC	0.47	120
VL040805.D	0.487	10252023T18:12:00	VOC	0.45	110
VL040805.D	0.458	10252023T18:12:00	VOC	0.46	120
VL040805.D	0.435	10252023T18:12:00	VOC	0.4	99
VL040805.D	0.335	10252023T18:12:00	VOC	0.3	75
VL040805.D	0.416	10252023T18:12:00	VOC	0.39	96
VL040805.D	0.384	10252023T18:12:00	VOC	0.36	89
VL040805.D	0.516	10252023T18:12:00	VOC	0.54	140
VL040805.D	0.505	10252023T18:12:00	VOC	0.48	120
VL040805.D	0.404	10252023T18:12:00	VOC	0.4	100
VL040805.D	0.406	10252023T18:12:00	VOC	0.33	82
VL040805.D	0.404	10252023T18:12:00	VOC	0.35	88
VL040805.D	0.446	10252023T18:12:00	VOC	0.45	110
VL040805.D	0.452	10252023T18:12:00	VOC	0.4	100
VL040805.D	0.442	10252023T18:12:00	VOC	0.45	110
VL040805.D	0.435	10252023T18:12:00	VOC	0.38	96
VL040805.D	0.888	10252023T18:12:00	VOC	0.72	180
VL040805.D	0.348	10252023T18:12:00	VOC	0.32	80
VL040805.D	0.353	10252023T18:12:00	VOC	0.41	100
VL040805.D	0.619	10252023T18:12:00	VOC	0.56	140
VL040805.D	0.226	10252023T18:12:00	VOC	0.27	66
VL040805.D	0	10252023T18:12:00	VOC	0.14	35
VL040805.D	0.415	10252023T18:12:00	VOC	0.35	88
VL040805.D	0.389	10252023T18:12:00	VOC	0.35	89
VL040805.D	0.439	10252023T18:12:00	VOC	0.35	87
VL040805.D	0.381	10252023T18:12:00	VOC	0.34	85
VL040805.D	0.467	10252023T18:12:00	VOC	0.46	110
VL040805.D	0.449	10252023T18:12:00	VOC	0.37	93
VL040805.D	0.35	10252023T18:12:00	VOC	0.27	67
VL040805.D	0.291	10252023T18:12:00	VOC	0.28	70
VL040805.D	0.37	10252023T18:12:00	VOC	0.45	110
VL040805.D	0.427	10252023T18:12:00	VOC	0.37	92
VL040787.D	0.04	10232023T20:32:00	VOC	0.032	110
VL040805.D	0.416	10252023T18:12:00	VOC	0.35	88
VL040805.D	0.38	10252023T18:12:00	VOC	0.31	78
VL040805.D	0.435	10252023T18:12:00	VOC	0.43	110
VL040787.D	0.05	10232023T20:32:00	VOC	0.033	110
VL040805.D	0.506	10252023T18:12:00	VOC	0.48	120
VL040805.D	0.341	10252023T18:12:00	VOC	0.43	110
VL040787.D	0.04	10232023T20:32:00	VOC	0.033	110
			VOC	0.544	136



QC SUMMARY

Surrogate Summary

SDG No.: **Q1725**

Client: **Woodard & Curran**

Analytical Method: **SWTO-15**

Lab Sample ID	Client ID	Parameter	Spike	Result	RecoveryQual	Limits	
						Low	High
Q1725-01	SSSG-B1-2-04012025	1-Bromo-4-Fluorobenzene	10	9.92	99	70 (65)	130 (135)
Q1725-02	SSSG-B10-4-04012025	1-Bromo-4-Fluorobenzene	10	9.80	98	70 (65)	130 (135)
Q1725-02DL	SSSG-B10-4-04012025DL	1-Bromo-4-Fluorobenzene	10	9.50	95	70 (65)	130 (135)
Q1725-02DL2	SSSG-B10-4-04012025DL2	1-Bromo-4-Fluorobenzene	10	9.32	93	70 (65)	130 (135)
Q1725-03	SSSG-DUP-2-04012025	1-Bromo-4-Fluorobenzene	10	9.96	100	70 (65)	130 (135)
Q1725-03DL	SSSG-DUP-2-04012025DL	1-Bromo-4-Fluorobenzene	10	9.89	99	70 (65)	130 (135)
Q1725-04	AA-1-03312025	1-Bromo-4-Fluorobenzene	10	9.67	97	70 (65)	130 (135)
Q1725-04DUP	AA-1-03312025DUP	1-Bromo-4-Fluorobenzene	10	9.70	97	70 (65)	130 (135)
Q1725-05	SSSG-B14-3-04012025	1-Bromo-4-Fluorobenzene	10	9.85	99	70 (65)	130 (135)
Q1725-05DL	SSSG-B14-3-04012025DL	1-Bromo-4-Fluorobenzene	10	9.68	97	70 (65)	130 (135)
Q1725-06	SSSG-B10-3-03312025	1-Bromo-4-Fluorobenzene	10	10.1	101	70 (65)	130 (135)
Q1725-06DL	SSSG-B10-3-03312025DL	1-Bromo-4-Fluorobenzene	10	9.41	94	70 (65)	130 (135)
Q1725-07	SSSG-B10-1-03312025-SPLIT	1-Bromo-4-Fluorobenzene	10	9.98	100	70 (65)	130 (135)
Q1725-07DL	SSSG-B10-1-03312025-SPLITDL	1-Bromo-4-Fluorobenzene	10	9.57	96	70 (65)	130 (135)
Q1725-08	SSSG-B10-2-03312025	1-Bromo-4-Fluorobenzene	10	9.79	98	70 (65)	130 (135)
Q1725-08DL	SSSG-B10-2-03312025DL	1-Bromo-4-Fluorobenzene	10	9.31	93	70 (65)	130 (135)
VL0407ABL01	VL0407ABL01	1-Bromo-4-Fluorobenzene	10	9.44	94	70 (65)	130 (135)
VL0407ABS01	VL0407ABS01	1-Bromo-4-Fluorobenzene	10	10.2	102	70 (65)	130 (135)
VL0408ABL01	VL0408ABL01	1-Bromo-4-Fluorobenzene	10	9.48	95	70 (65)	130 (135)
VL0408ABS01	VL0408ABS01	1-Bromo-4-Fluorobenzene	10	10.0	100	70 (65)	130 (135)

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1725

Client: Woodard & Curran

Analytical Method: SWTO-15

Datafile : VL042230.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VL0407ABS01	Dichlorodifluoromethane	10	9.40	ppbv	94			40 (70)	160 (130)	
	Chloromethane	10	8.90	ppbv	89			40 (70)	160 (130)	
	Vinyl Chloride	10	8.00	ppbv	80			70 (70)	130 (130)	
	Bromomethane	10	8.20	ppbv	82			40 (70)	160 (130)	
	Chloroethane	10	8.90	ppbv	89			40 (70)	160 (130)	
	Tetrahydrofuran	10	9.10	ppbv	91			70 (70)	130 (130)	
	Trichlorofluoromethane	10	9.20	ppbv	92			40 (70)	160 (130)	
	1,1,2-Trichlorotrifluoroethane	10	9.00	ppbv	90			70 (70)	130 (130)	
	Dichlorotetrafluoroethane	10	9.30	ppbv	93			70 (70)	130 (130)	
	tert-Butyl Alcohol	10	7.90	ppbv	79			70 (70)	130 (130)	
	Heptane	10	8.60	ppbv	86			70 (70)	130 (130)	
	1,1-Dichloroethene	10	8.10	ppbv	81			70 (70)	130 (130)	
	Acetone	10	8.30	ppbv	83			40 (70)	160 (130)	
	Carbon disulfide	10	8.70	ppbv	87			40 (70)	160 (130)	
	Methyl tert-butyl Ether	10	8.30	ppbv	83			70 (70)	130 (130)	
	Methylene Chloride	10	7.40	ppbv	74			70 (70)	130 (130)	
	trans-1,2-Dichloroethene	10	8.30	ppbv	83			70 (70)	130 (130)	
	1,1-Dichloroethane	10	9.20	ppbv	92			70 (70)	130 (130)	
	Cyclohexane	10	8.50	ppbv	85			70 (70)	130 (130)	
	2-Butanone	10	9.40	ppbv	94			40 (70)	160 (130)	
	Carbon Tetrachloride	10	10.1	ppbv	101			70 (70)	130 (130)	
	cis-1,2-Dichloroethene	10	8.90	ppbv	89			70 (70)	130 (130)	
	Chloroform	10	9.80	ppbv	98			70 (70)	130 (130)	
	1,1,1-Trichloroethane	10	8.70	ppbv	87			70 (70)	130 (130)	
	2,2,4-Trimethylpentane	10	9.40	ppbv	94			70 (70)	130 (130)	
	Benzene	10	9.40	ppbv	94			70 (70)	130 (130)	
	1,2-Dichloroethane	10	10.4	ppbv	104			70 (70)	130 (130)	
	Trichloroethene	10	9.20	ppbv	92			70 (70)	130 (130)	
	1,2-Dichloropropane	10	9.40	ppbv	94			70 (70)	130 (130)	
	Bromodichloromethane	10	10.4	ppbv	104			70 (70)	130 (130)	
	4-Methyl-2-Pentanone	10	8.40	ppbv	84			40 (70)	160 (130)	
	Toluene	10	9.00	ppbv	90			70 (70)	130 (130)	
	t-1,3-Dichloropropene	10	8.10	ppbv	81			70 (70)	130 (130)	
	cis-1,3-Dichloropropene	10	8.60	ppbv	86			70 (70)	130 (130)	
	1,1,2-Trichloroethane	10	10.0	ppbv	100			70 (70)	130 (130)	
	Dibromochloromethane	10	10.0	ppbv	100			70 (70)	130 (130)	
	1,2-Dibromoethane	10	9.60	ppbv	96			70 (70)	130 (130)	
	Tetrachloroethene	10	8.40	ppbv	84			70 (70)	130 (130)	
	Chlorobenzene	10	10.2	ppbv	102			70 (70)	130 (130)	
	Ethyl Benzene	10	9.80	ppbv	98			70 (70)	130 (130)	
	m/p-Xylene	20	20.4	ppbv	102			70 (70)	130 (130)	
	o-Xylene	10	10.2	ppbv	102			70 (70)	130 (130)	
	Styrene	10	9.60	ppbv	96			70 (70)	130 (130)	
	Bromoform	10	9.80	ppbv	98			70 (70)	130 (130)	
	1,1,2,2-Tetrachloroethane	10	10.8	ppbv	108			70 (70)	130 (130)	
	2-Chlorotoluene	10	10.3	ppbv	103			70 (70)	130 (130)	
	1,3,5-Trimethylbenzene	10	10.2	ppbv	102			70 (70)	130 (130)	
	1,2,4-Trimethylbenzene	10	9.90	ppbv	99			70 (70)	130 (130)	

() = LABORATORY INHOUSE LIMIT

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1725

Client: Woodard & Curran

Analytical Method: SWTO-15

Datafile : VL042230.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VL0407ABS01	1,3-Dichlorobenzene	10	10.6	ppbv	106			70 (70)	130 (130)	
	1,4-Dichlorobenzene	10	10.6	ppbv	106			70 (70)	130 (130)	
	1,2-Dichlorobenzene	10	10.7	ppbv	107			70 (70)	130 (130)	
	1,2,4-Trichlorobenzene	10	9.00	ppbv	90			70 (70)	130 (130)	
	Hexachloro-1,3-butadiene	10	8.20	ppbv	82			70 (70)	130 (130)	
	Naphthalene	10	9.30	ppbv	93			40 (70)	160 (130)	
	1,3-Butadiene	10	8.10	ppbv	81			70 (70)	130 (130)	
	4-Ethyltoluene	10	10.3	ppbv	103			70 (70)	130 (130)	
	Hexane	10	8.90	ppbv	89			70 (70)	130 (130)	
	Allyl Chloride	10	8.60	ppbv	86			70 (70)	130 (130)	
	1,4-Dioxane	10	8.40	ppbv	84			40 (70)	160 (130)	
	Methyl methacrylate	10	8.50	ppbv	85			70 (70)	130 (130)	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1725

Client: Woodard & Curran

Analytical Method: SWTO-15

Datafile : VL042255.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VL0408ABS01	Dichlorodifluoromethane	10	9.70	ppbv	97			40 (70)	160 (130)	
	Chloromethane	10	9.80	ppbv	98			40 (70)	160 (130)	
	Vinyl Chloride	10	8.50	ppbv	85			70 (70)	130 (130)	
	Bromomethane	10	8.70	ppbv	87			40 (70)	160 (130)	
	Chloroethane	10	9.20	ppbv	92			40 (70)	160 (130)	
	Tetrahydrofuran	10	10.2	ppbv	102			70 (70)	130 (130)	
	Trichlorofluoromethane	10	9.60	ppbv	96			40 (70)	160 (130)	
	1,1,2-Trichlorotrifluoroethane	10	9.40	ppbv	94			70 (70)	130 (130)	
	Dichlorotetrafluoroethane	10	9.70	ppbv	97			70 (70)	130 (130)	
	tert-Butyl Alcohol	10	8.40	ppbv	84			70 (70)	130 (130)	
	Heptane	10	9.50	ppbv	95			70 (70)	130 (130)	
	1,1-Dichloroethene	10	8.90	ppbv	89			70 (70)	130 (130)	
	Acetone	10	8.90	ppbv	89			40 (70)	160 (130)	
	Carbon disulfide	10	9.00	ppbv	90			40 (70)	160 (130)	
	Methyl tert-butyl Ether	10	8.50	ppbv	85			70 (70)	130 (130)	
	Methylene Chloride	10	8.40	ppbv	84			70 (70)	130 (130)	
	trans-1,2-Dichloroethene	10	8.80	ppbv	88			70 (70)	130 (130)	
	1,1-Dichloroethane	10	9.80	ppbv	98			70 (70)	130 (130)	
	Cyclohexane	10	9.10	ppbv	91			70 (70)	130 (130)	
	2-Butanone	10	10.6	ppbv	106			40 (70)	160 (130)	
	Carbon Tetrachloride	10	10.8	ppbv	108			70 (70)	130 (130)	
	cis-1,2-Dichloroethene	10	9.30	ppbv	93			70 (70)	130 (130)	
	Chloroform	10	10.5	ppbv	105			70 (70)	130 (130)	
	1,1,1-Trichloroethane	10	9.00	ppbv	90			70 (70)	130 (130)	
	2,2,4-Trimethylpentane	10	10.7	ppbv	107			70 (70)	130 (130)	
	Benzene	10	10.6	ppbv	106			70 (70)	130 (130)	
	1,2-Dichloroethane	10	11.2	ppbv	112			70 (70)	130 (130)	
	Trichloroethene	10	10.1	ppbv	101			70 (70)	130 (130)	
	1,2-Dichloropropane	10	10.4	ppbv	104			70 (70)	130 (130)	
	Bromodichloromethane	10	11.2	ppbv	112			70 (70)	130 (130)	
	4-Methyl-2-Pentanone	10	9.60	ppbv	96			40 (70)	160 (130)	
	Toluene	10	9.90	ppbv	99			70 (70)	130 (130)	
	t-1,3-Dichloropropene	10	8.30	ppbv	83			70 (70)	130 (130)	
	cis-1,3-Dichloropropene	10	9.10	ppbv	91			70 (70)	130 (130)	
	1,1,2-Trichloroethane	10	11.2	ppbv	112			70 (70)	130 (130)	
	Dibromochloromethane	10	10.9	ppbv	109			70 (70)	130 (130)	
	1,2-Dibromoethane	10	10.7	ppbv	107			70 (70)	130 (130)	
	Tetrachloroethene	10	9.00	ppbv	90			70 (70)	130 (130)	
	Chlorobenzene	10	11.4	ppbv	114			70 (70)	130 (130)	
	Ethyl Benzene	10	10.6	ppbv	106			70 (70)	130 (130)	
	m/p-Xylene	20	22.5	ppbv	113			70 (70)	130 (130)	
	o-Xylene	10	11.2	ppbv	112			70 (70)	130 (130)	
	Styrene	10	10.1	ppbv	101			70 (70)	130 (130)	
	Bromoform	10	10.7	ppbv	107			70 (70)	130 (130)	
	1,1,2,2-Tetrachloroethane	10	12.1	ppbv	121			70 (70)	130 (130)	
	2-Chlorotoluene	10	11.1	ppbv	111			70 (70)	130 (130)	
	1,3,5-Trimethylbenzene	10	11.2	ppbv	112			70 (70)	130 (130)	
	1,2,4-Trimethylbenzene	10	10.8	ppbv	108			70 (70)	130 (130)	

() = LABORATORY INHOUSE LIMIT

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1725
Client: Woodard & Curran
Analytical Method: SWTO-15 **Datafile :** VL042255.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VL0408ABS01	1,3-Dichlorobenzene	10	11.7	ppbv	117			70 (70)	130 (130)	
	1,4-Dichlorobenzene	10	11.6	ppbv	116			70 (70)	130 (130)	
	1,2-Dichlorobenzene	10	11.9	ppbv	119			70 (70)	130 (130)	
	1,2,4-Trichlorobenzene	10	9.70	ppbv	97			70 (70)	130 (130)	
	Hexachloro-1,3-butadiene	10	8.80	ppbv	88			70 (70)	130 (130)	
	Naphthalene	10	10.1	ppbv	101			40 (70)	160 (130)	
	1,3-Butadiene	10	8.90	ppbv	89			70 (70)	130 (130)	
	4-Ethyltoluene	10	11.5	ppbv	115			70 (70)	130 (130)	
	Hexane	10	9.50	ppbv	95			70 (70)	130 (130)	
	Allyl Chloride	10	9.10	ppbv	91			70 (70)	130 (130)	
	1,4-Dioxane	10	9.60	ppbv	96			40 (70)	160 (130)	
	Methyl methacrylate	10	9.30	ppbv	93			70 (70)	130 (130)	

Duplicate Sample Summary

Lab Sample Id :	Q1725-04DUP	Q1725-04
Client Id :	AA-1-03312025DUP	AA-1-03312025
DF :	1	1
Datafile :	VL042232.D	VL042231.D
Anal Date & Time :	04/07/2025 13:00	04/07/2025 12:27

Parameter	Result	Result	RPD
1,1,1-Trichloroethane	0	0	0
1,1,2,2-Tetrachloroethane	0	0	0
1,1,2-Trichloroethane	0	0	0
1,1,2-Trichlorotrifluoroethane	0	0	0
1,1-Dichloroethane	0	0	0
1,1-Dichloroethene	0	0	0
1,2,4-Trichlorobenzene	0	0	0
1,2,4-Trimethylbenzene	0	0	0
1,2-Dibromoethane	0	0	0
1,2-Dichlorobenzene	0	0	0
1,2-Dichloroethane	0	0	0
1,2-Dichloropropane	0	0	0
1,3,5-Trimethylbenzene	0	0	0
1,3-Butadiene	0	0	0
1,3-Dichlorobenzene	0	0	0
1,4-Dichlorobenzene	0	0	0
1,4-Dioxane	0	0	0
2,2,4-Trimethylpentane	0	0	0
2-Butanone	0.49	0.53	7.8
2-Chlorotoluene	0	0	0
4-Ethyltoluene	0	0	0
4-Methyl-2-Pentanone	0.12	0.13	8
Acetone	5.2	5.1	1.9
Allyl Chloride	0	0	0
Benzene	0.13	0.14	7.4
Bromodichloromethane	0	0	0
Bromoform	0	0	0
Bromomethane	0	0	0
Carbon Disulfide	0	0	0
Carbon Tetrachloride	0.06	0.07	15.4

Duplicate Sample Summary

Lab Sample Id :	Q1725-04DUP	Q1725-04
Client Id :	AA-1-03312025DUP	AA-1-03312025
DF :	1	1
Datafile :	VL042232.D	VL042231.D
Anal Date & Time :	04/07/2025 13:00	04/07/2025 12:27

Parameter	Result	Result	RPD
Chlorobenzene	0	0	0
Chloroethane	0	0	0
Chloroform	0	0	0
Chloromethane	0.56	0.58	3.5
cis-1,2-Dichloroethene	0	0	0
cis-1,3-Dichloropropene	0	0	0
Cyclohexane	0	0	0
Dibromochloromethane	0	0	0
Dichlorodifluoromethane	0.4	0.4	0
Dichlorotetrafluoroethane	0	0	0
Ethyl Benzene	0	0	0
Heptane	0.12	0.11	8.7
Hexachloro-1,3-Butadiene	0	0	0
Hexane	0.33	0.33	0
m/p-Xylene	0.22	0.22	0
Methyl Methacrylate	0	0	0
Methyl tert-Butyl Ether	0	0	0
Methylene Chloride	0.48	0.4	18.2
Naphthalene	0	0	0
o-Xylene	0	0	0
Styrene	0	0	0
t-1,3-Dichloropropene	0	0	0
tert-Butyl alcohol	0	0	0
Tetrachloroethene	0	0	0
Tetrahydrofuran	0	0	0
Toluene	0.59	0.61	3.3
trans-1,2-Dichloroethene	0	0	0
Trichloroethene	0	0	0
Trichlorofluoromethane	0.21	0.21	0
Vinyl Chloride	0	0	0

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VL0407ABL01

Lab Name: CHEMTECH

Contract: WOOD06

Lab Code: CHEM Case No.: Q1725

SAS No.: Q1725 SDG NO.: Q1725

Lab File ID: VL042229.D

Lab Sample ID: VL0407ABL01

Date Analyzed: 04/07/2025

Time Analyzed: 10:23

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
VL0407ABS01	VL0407ABS01	VL042230.D	04/07/2025
AA-1-03312025	Q1725-04	VL042231.D	04/07/2025
AA-1-03312025DUP	Q1725-04DUP	VL042232.D	04/07/2025
SSSG-B1-2-04012025	Q1725-01	VL042234.D	04/07/2025
SSSG-B10-4-04012025	Q1725-02	VL042235.D	04/07/2025
SSSG-B10-4-04012025DL	Q1725-02DL	VL042236.D	04/07/2025
SSSG-B14-3-04012025DL	Q1725-05DL	VL042239.D	04/07/2025
SSSG-B10-1-03312025-SPLITDL	Q1725-07DL	VL042241.D	04/07/2025
SSSG-B10-4-04012025DL2	Q1725-02DL2	VL042243.D	04/07/2025
SSSG-DUP-2-04012025DL	Q1725-03DL	VL042244.D	04/07/2025
SSSG-B14-3-04012025	Q1725-05	VL042245.D	04/07/2025
SSSG-B10-3-03312025	Q1725-06	VL042247.D	04/07/2025
SSSG-B10-3-03312025DL	Q1725-06DL	VL042248.D	04/08/2025
SSSG-B10-1-03312025-SPLIT	Q1725-07	VL042249.D	04/08/2025
SSSG-B10-2-03312025	Q1725-08	VL042250.D	04/08/2025
SSSG-B10-2-03312025DL	Q1725-08DL	VL042251.D	04/08/2025

COMMENTS: _____

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VL0408ABL01

Lab Name: CHEMTECH

Contract: WOOD06

Lab Code: CHEM Case No.: Q1725

SAS No.: Q1725 SDG NO.: Q1725

Lab File ID: VL042254.D

Lab Sample ID: VL0408ABL01

Date Analyzed: 04/08/2025

Time Analyzed: 09:22

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
VL0408ABS01	VL0408ABS01	VL042255.D	04/08/2025
SSSG-DUP-2-04012025	Q1725-03	VL042256.D	04/08/2025

COMMENTS: _____

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: WOOD06
Lab Code: CHEM Case No.: Q1725 SAS No.: Q1725 SDG NO.: Q1725
Lab File ID: VL042171.D BFB Injection Date: 03/27/2025
Instrument ID: MSVOA_L BFB Injection Time: 07:44
GC Column: RTX-1 ID: 0.32 (mm) Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	23
75	30.0 - 66.0% of mass 95	56.3
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.6
173	Less than 2.0% of mass 174	0.0 (0.0) 1
174	50.0 - 120.0% of mass 95	63.8
175	4.0 - 9.0% of mass 174	5.1 (8) 1
176	93.0 - 101.0% of mass 174	61.1 (95.7) 1
177	5.0 - 9.0% of mass 176	4.2 (6.8) 2

1-Value is % mass 174

2-Value is % mass 176

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDICCC010	VSTDICCC010	VL042172.D	03/27/2025	08:26
VSTDICCC002	VSTDICCC002	VL042173.D	03/27/2025	08:59
VSTDICCC001	VSTDICCC001	VL042174.D	03/27/2025	09:30
VSTDICCC0.5	VSTDICCC0.5	VL042175.D	03/27/2025	10:01
VSTDICCC0.1	VSTDICCC0.1	VL042176.D	03/27/2025	10:32
VSTDICCC0.03	VSTDICCC0.03	VL042177.D	03/27/2025	11:03
VSTDICCC015	VSTDICCC015	VL042178.D	03/27/2025	11:36

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: WOOD06
Lab Code: CHEM Case No.: Q1725 SAS No.: Q1725 SDG NO.: Q1725
Lab File ID: VL042227.D BFB Injection Date: 04/07/2025
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	24.4
75	30.0 - 66.0% of mass 95	57.9
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.4
173	Less than 2.0% of mass 174	0.6 (1.1) 1
174	50.0 - 120.0% of mass 95	58.1
175	4.0 - 9.0% of mass 174	4.3 (7.4) 1
176	93.0 - 101.0% of mass 174	56.1 (96.5) 1
177	5.0 - 9.0% of mass 176	3.7 (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:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDCCC010	VSTDCCC010	VL042228.D	04/07/2025	09:31
VL0407ABL01	VL0407ABL01	VL042229.D	04/07/2025	10:23
VL0407ABS01	VL0407ABS01	VL042230.D	04/07/2025	11:09
AA-1-03312025	Q1725-04	VL042231.D	04/07/2025	12:27
AA-1-03312025DUP	Q1725-04DUP	VL042232.D	04/07/2025	13:00
SSSG-B1-2-04012025	Q1725-01	VL042234.D	04/07/2025	14:18
SSSG-B10-4-04012025	Q1725-02	VL042235.D	04/07/2025	14:51
SSSG-B10-4-04012025DL	Q1725-02DL	VL042236.D	04/07/2025	17:44
SSSG-B14-3-04012025DL	Q1725-05DL	VL042239.D	04/07/2025	19:17
SSSG-B10-1-03312025-SPLITDL	Q1725-07DL	VL042241.D	04/07/2025	20:19
SSSG-B10-4-04012025DL2	Q1725-02DL2	VL042243.D	04/07/2025	21:38
SSSG-DUP-2-04012025DL	Q1725-03DL	VL042244.D	04/07/2025	22:09
SSSG-B14-3-04012025	Q1725-05	VL042245.D	04/07/2025	22:40
SSSG-B10-3-03312025	Q1725-06	VL042247.D	04/07/2025	23:41
SSSG-B10-3-03312025DL	Q1725-06DL	VL042248.D	04/08/2025	00:12
SSSG-B10-1-03312025-SPLIT	Q1725-07	VL042249.D	04/08/2025	00:46
SSSG-B10-2-03312025	Q1725-08	VL042250.D	04/08/2025	01:17
SSSG-B10-2-03312025DL	Q1725-08DL	VL042251.D	04/08/2025	01:48

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: WOOD06
Lab Code: CHEM Case No.: Q1725 SAS No.: Q1725 SDG NO.: Q1725
Lab File ID: VL042252.D BFB Injection Date: 04/08/2025
Instrument ID: MSVOA_L BFB Injection Time: 07:57
GC Column: RTX-1 ID: 0.32 (mm) Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	23.2
75	30.0 - 66.0% of mass 95	56.8
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.4
173	Less than 2.0% of mass 174	0.4 (0.7) 1
174	50.0 - 120.0% of mass 95	58.9
175	4.0 - 9.0% of mass 174	4.3 (7.4) 1
176	93.0 - 101.0% of mass 174	56.7 (96.2) 1
177	5.0 - 9.0% of mass 176	3.7 (6.5) 2

1-Value is % mass 174

2-Value is % mass 176

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDCCC010	VSTDCCC010	VL042253.D	04/08/2025	08:39
VL0408ABL01	VL0408ABL01	VL042254.D	04/08/2025	09:22
VL0408ABS01	VL0408ABS01	VL042255.D	04/08/2025	10:05
SSSG-DUP-2-04012025	Q1725-03	VL042256.D	04/08/2025	10:55

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name:	<u>CHEMTECH</u>			Contract:	<u>WOOD06</u>		
Lab Code:	<u>CHEM</u>	Case No.:	<u>Q1725</u>	SAS No.:	<u>Q1725</u>	SDG NO.:	<u>Q1725</u>
Lab File ID:	<u>VL042228.D</u>			Date Analyzed:	<u>04/07/2025</u>		
Instrument ID:	<u>MSVOA_L</u>			Time Analyzed:	<u>09:31</u>		
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	190462	2.80	513778	3.98	464477	8.90
UPPER LIMIT	266647	3.13	719289	4.31	650268	9.23
LOWER LIMIT	114277	2.47	308267	3.65	278686	8.57
EPA SAMPLE NO.						
SSSG-B1-2-04012025	198158	2.80	527291	3.98	473671	8.90
SSSG-B10-4-04012025	200550	2.80	538469	3.98	487966	8.90
SSSG-B10-4-04012025DL	203982	2.80	532301	3.98	458285	8.90
SSSG-B10-4-04012025DL2	196689	2.81	503068	3.99	430861	8.91
SSSG-DUP-2-04012025DL	190938	2.80	485801	3.99	425989	8.90
AA-1-03312025	202620	2.80	551417	3.98	479781	8.90
AA-1-03312025DUP	201241	2.80	543996	3.98	475092	8.90
SSSG-B14-3-04012025	191155	2.80	493918	3.99	441320	8.91
SSSG-B14-3-04012025DL	192644	2.80	502203	3.99	443302	8.91
SSSG-B10-3-03312025	194534	2.80	495845	3.99	437126	8.90
SSSG-B10-3-03312025DL	194329	2.80	493793	3.98	430982	8.90
SSSG-B10-1-03312025-SPLIT	197758	2.81	506596	3.99	465539	8.91
SSSG-B10-1-03312025-SPLITDL	193361	2.80	501287	3.98	435889	8.90
SSSG-B10-2-03312025	202914	2.80	515559	3.98	442488	8.90
SSSG-B10-2-03312025DL	194708	2.80	494678	3.99	424907	8.91
VL0407ABL01	195732	2.80	527491	3.98	463741	8.90
VL0407ABS01	197822	2.80	531347	3.98	473981	8.90

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: WOOD06
 Lab Code: CHEM Case No.: Q1725 SAS No.: Q1725 SDG NO.: Q1725
 Lab File ID: VL042228.D Date Analyzed: 04/07/2025
 Instrument ID: MSVOA_L Time Analyzed: 09:31
 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	190462	2.80	513778	3.98	464477	8.90
UPPER LIMIT	266647	3.13	719289	4.31	650268	9.23
LOWER LIMIT	114277	2.47	308267	3.65	278686	8.57
EPA SAMPLE NO.						

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.

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: WOOD06
 Lab Code: CHEM Case No.: Q1725 SAS No.: Q1725 SDG NO.: Q1725
 Lab File ID: VL042253.D Date Analyzed: 04/08/2025
 Instrument ID: MSVOA_L Time Analyzed: 08:39
 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	192748	2.80	496271	3.98	446954	8.90
UPPER LIMIT	269847	3.13	694779	4.31	625736	9.23
LOWER LIMIT	115649	2.47	297763	3.65	268172	8.57
EPA SAMPLE NO.						
SSSG-DUP-2-04012025	196935	2.80	510940	3.98	446395	8.90
VL0408ABL01	194254	2.80	507155	3.98	433594	8.90
VL0408ABS01	190420	2.80	494678	3.98	447066	8.90

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:	Woodard & Curran	Date Collected:	04/01/25
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	04/03/25
Client Sample ID:	SSSG-B1-2-04012025	SDG No.:	Q1725
Lab Sample ID:	Q1725-01	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400	Units:	mL

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042234.D	1		04/07/25 14:18	VL040725

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.40	1.98	J	1.04	2.47	ug/m3
74-87-3	Chloromethane	0.10	0.21	U	0.21	1.03	ug/m3
75-01-4	Vinyl Chloride	0.010	0.030	U	0.030	0.080	ug/m3
74-83-9	Bromomethane	0.14	0.54	U	0.54	1.94	ug/m3
75-00-3	Chloroethane	0.17	0.45	U	0.45	1.32	ug/m3
109-99-9	Tetrahydrofuran	0.13	0.38	U	0.38	1.47	ug/m3
75-69-4	Trichlorofluoromethane	0.21	1.18	J	0.90	2.81	ug/m3
76-13-1	1,1,2-Trichlorotrifluoroethane	0.16	1.23	U	1.23	3.83	ug/m3
76-14-2	Dichlorotetrafluoroethane	0.090	0.63	U	0.63	3.49	ug/m3
75-65-0	tert-Butyl alcohol	0.19	0.58	U	0.58	1.52	ug/m3
142-82-5	Heptane	0.12	0.49	J	0.45	2.05	ug/m3
75-35-4	1,1-Dichloroethene	0.14	0.56	U	0.56	1.98	ug/m3
67-64-1	Acetone	2.50	5.94		0.57	1.19	ug/m3
75-15-0	Carbon Disulfide	0.16	0.50	U	0.50	1.56	ug/m3
1634-04-4	Methyl tert-Butyl Ether	0.12	0.43	U	0.43	1.80	ug/m3
75-09-2	Methylene Chloride	0.98	3.40		0.66	1.74	ug/m3
156-60-5	trans-1,2-Dichloroethene	0.19	0.75	U	0.75	1.98	ug/m3
75-34-3	1,1-Dichloroethane	0.13	0.53	U	0.53	2.02	ug/m3
110-82-7	Cyclohexane	0.22	0.76	U	0.76	1.72	ug/m3
78-93-3	2-Butanone	0.20	0.59	J	0.35	1.47	ug/m3
56-23-5	Carbon Tetrachloride	0.070	0.44		0.060	0.19	ug/m3
156-59-2	cis-1,2-Dichloroethene	0.090	0.36	U	0.36	1.98	ug/m3
67-66-3	Chloroform	2.00	9.77		0.39	2.44	ug/m3
71-55-6	1,1,1-Trichloroethane	0.010	0.050	U	0.050	0.16	ug/m3
540-84-1	2,2,4-Trimethylpentane	0.10	0.47	U	0.47	2.34	ug/m3
71-43-2	Benzene	0.14	0.45	J	0.29	1.60	ug/m3
107-06-2	1,2-Dichloroethane	0.090	0.36	U	0.36	2.02	ug/m3
79-01-6	Trichloroethene	0.070	0.38		0.11	0.16	ug/m3
78-87-5	1,2-Dichloropropane	0.11	0.51	U	0.51	2.31	ug/m3
75-27-4	Bromodichloromethane	0.080	0.54	U	0.54	3.35	ug/m3
108-10-1	4-Methyl-2-Pentanone	0.090	0.37	U	0.37	2.05	ug/m3
108-88-3	Toluene	2.10	7.91		0.41	1.88	ug/m3
10061-02-6	t-1,3-Dichloropropene	0.060	0.27	U	0.27	2.27	ug/m3
10061-01-5	cis-1,3-Dichloropropene	0.060	0.27	U	0.27	2.27	ug/m3
79-00-5	1,1,2-Trichloroethane	0.070	0.38	U	0.38	2.73	ug/m3

Report of Analysis

Client:	Woodard & Curran	Date Collected:	04/01/25
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	04/03/25
Client Sample ID:	SSSG-B1-2-04012025	SDG No.:	Q1725
Lab Sample ID:	Q1725-01	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042234.D	1		04/07/25 14:18	VL040725

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
124-48-1	Dibromochloromethane	0.070	0.60	U	0.60	4.26	ug/m3
106-93-4	1,2-Dibromoethane	0.070	0.54	U	0.54	0.77	ug/m3
127-18-4	Tetrachloroethene	0.050	0.34		0.14	0.20	ug/m3
108-90-7	Chlorobenzene	0.20	0.92	J	0.37	2.30	ug/m3
100-41-4	Ethyl Benzene	0.28	1.22	J	0.52	2.17	ug/m3
179601-23-1	m/p-Xylene	1.20	5.21		0.91	4.34	ug/m3
95-47-6	o-Xylene	0.40	1.74	J	0.52	2.17	ug/m3
100-42-5	Styrene	0.22	0.94	J	0.47	2.13	ug/m3
75-25-2	Bromoform	0.060	0.62	U	0.62	5.17	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	0.010	0.070	U	0.070	0.21	ug/m3
95-49-8	2-Chlorotoluene	0.11	0.57	U	0.57	2.59	ug/m3
108-67-8	1,3,5-Trimethylbenzene	0.11	0.54	U	0.54	2.46	ug/m3
95-63-6	1,2,4-Trimethylbenzene	0.23	1.13	J	0.39	2.46	ug/m3
541-73-1	1,3-Dichlorobenzene	0.080	0.48	U	0.48	3.01	ug/m3
106-46-7	1,4-Dichlorobenzene	0.050	0.30	U	0.30	3.01	ug/m3
95-50-1	1,2-Dichlorobenzene	0.080	0.48	U	0.48	3.01	ug/m3
120-82-1	1,2,4-Trichlorobenzene	0.090	0.67	U	0.67	3.71	ug/m3
87-68-3	Hexachloro-1,3-Butadiene	0.090	0.96	U	0.96	5.33	ug/m3
106-99-0	1,3-Butadiene	0.13	0.29	U	0.29	1.11	ug/m3
91-20-3	Naphthalene	0.080	0.42	U	0.42	0.52	ug/m3
622-96-8	4-Ethyltoluene	0.12	0.59	U	0.59	2.46	ug/m3
110-54-3	Hexane	0.31	1.09	J	0.39	1.76	ug/m3
107-05-1	Allyl Chloride	0.15	0.47	U	0.47	1.57	ug/m3
123-91-1	1,4-Dioxane	0.21	0.76	U	0.76	1.80	ug/m3
80-62-6	Methyl Methacrylate	0.090	0.37	U	0.37	2.05	ug/m3
SURROGATES							
460-00-4	1-Bromo-4-Fluorobenzene	9.90			70 (65) - 130 (135)	99%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	198000		2.803			
540-36-3	1,4-Difluorobenzene	527000		3.981			
3114-55-4	Chlorobenzene-d5	474000		8.904			
TENTATIVE IDENTIFIED COMPOUNDS							
75-45-6	Chlorodifluoromethane	0.27		J		1.48	ppbv
64-17-5	Ethanol	2.30		J		1.73	ppbv

Report of Analysis

Client:	Woodard & Curran	Date Collected:	04/01/25
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	04/03/25
Client Sample ID:	SSSG-B1-2-04012025	SDG No.:	Q1725
Lab Sample ID:	Q1725-01	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042234.D	1		04/07/25 14:18	VL040725

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units

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\VL040725\
 Data File : VL042234.D
 Acq On : 07 Apr 2025 14:18
 Operator : SY/MD
 Sample : Q1725-01
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SSSG-B1-2-04012025

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 04/08/2025
 Supervised By :Mahesh Dadoda 04/09/2025

Quant Time: Apr 08 01:32:03 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M

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

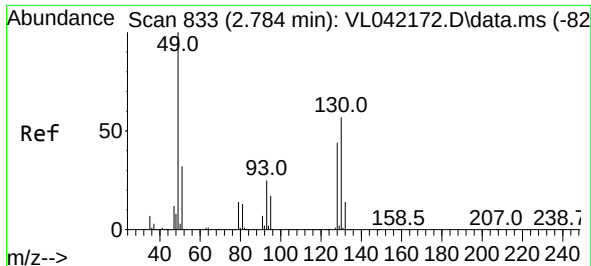
QLast Update : Fri Mar 28 02:00:52 2025

Response via : Initial Calibration

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

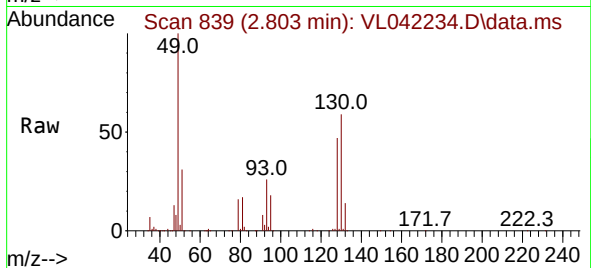
Internal Standards						
1) Bromochloromethane	2.803	49	198158	10.000	ppbv	0.02
33) 1,4-Difluorobenzene	3.981	114	527291	10.000	ppbv	0.03
55) Chlorobenzene-d5	8.904	117	473671	10.000	ppbv	0.03
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.393	95	385746	9.917	ppbv	0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.200%
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.505	85	11751	0.402	ppbv	91
3) Chlorodifluoromethane	1.480	51	7986m	0.267	ppbv	
10) Heptane	5.011	43	4434m	0.122	ppbv	
11) Trichlorofluoromethane	1.887	101	6010	0.211	ppbv	90
13) Ethanol	1.729	45	2993m	2.311	ppbv	
15) Acetone	1.845	43	70052	2.528	ppbv	96
20) Methylene Chloride	2.072	84	10076	0.976	ppbv	99
26) Hexane	2.845	57	8472m	0.305	ppbv	
29) Chloroform	2.865	83	81943	2.015	ppbv	98
34) 2-Butanone	2.580	43	7789	0.204	ppbv	93
35) Carbon Tetrachloride	3.791	117	2819m	0.068	ppbv	
36) Benzene	3.680	78	7218	0.138	ppbv #	88
38) Trichloroethene	4.577	130	1453m	0.067	ppbv	
52) Tetrachloroethene	8.241	164	1024m	0.049	ppbv	
53) Toluene	6.966	91	132108	2.132	ppbv	98
57) Chlorobenzene	8.940	112	8901	0.198	ppbv #	76
58) Ethyl Benzene	9.374	91	23493	0.279	ppbv	92
59) m/p-Xylene	9.552	91	79086	1.177	ppbv	99
60) o-Xylene	9.985	91	26822	0.398	ppbv	92
61) Styrene	9.888	104	7302	0.219	ppbv	97
74) 1,2,4-Trimethylbenzene	11.555	105	19699	0.233	ppbv #	67

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



#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.803 min Scan# 81
Delta R.T. 0.019 min
Lab File: VL042234.D
Acq: 07 Apr 2025 14:18

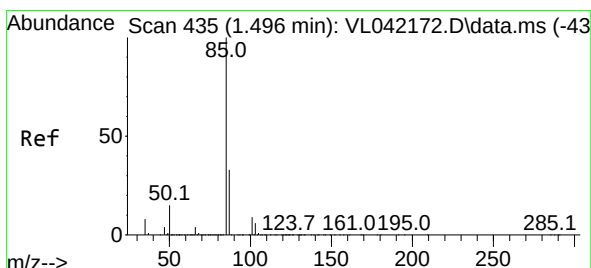
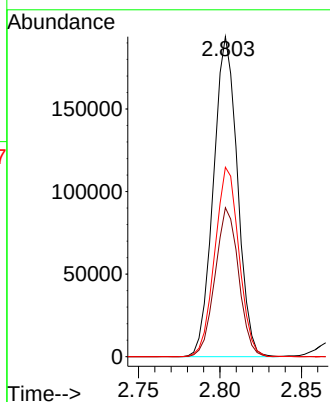
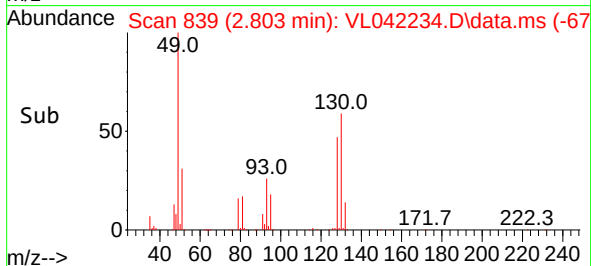
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B1-2-04012025



Tgt Ion: 49 Resp: 19815
Ion Ratio Lower Upper
49 100
128 45.8 22.9 68.5
130 59.8 28.8 86.4

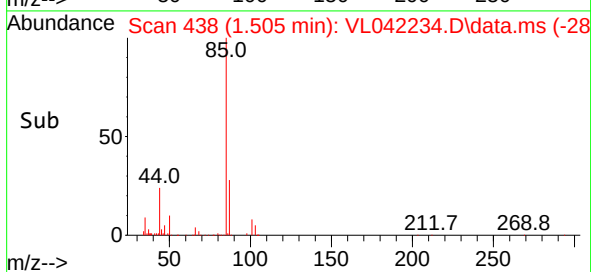
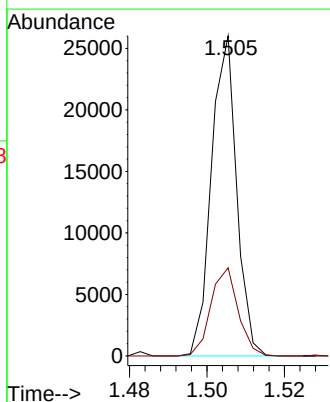
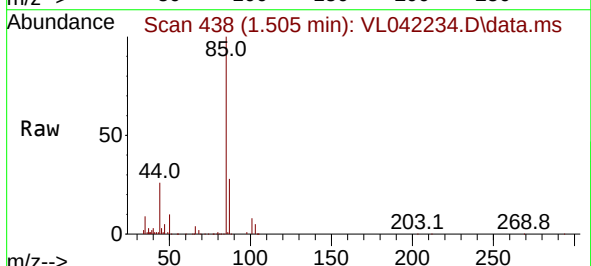
Manual Integrations
APPROVED

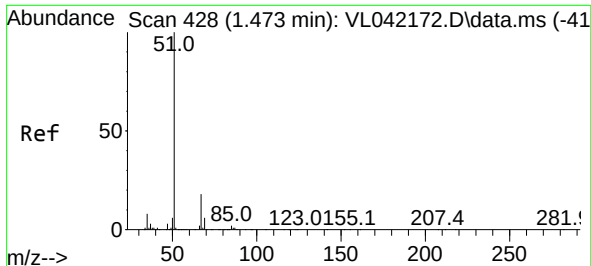
Reviewed By :Semsettin Yesilyurt 04/08/2025
Supervised By :Mahesh Dadoda 04/09/2025



#2
Dichlorodifluoromethane
Concen: 0.402 ppbv
RT: 1.505 min Scan# 438
Delta R.T. 0.010 min
Lab File: VL042234.D
Acq: 07 Apr 2025 14:18

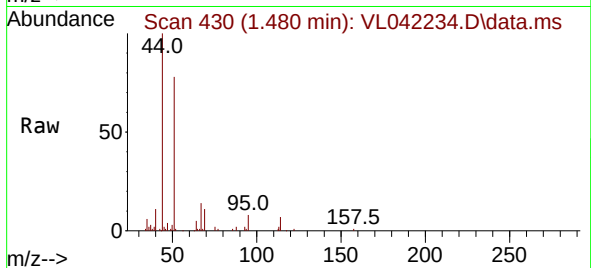
Tgt Ion: 85 Resp: 11751
Ion Ratio Lower Upper
85 100
87 27.6 26.1 39.1





#3
Chlorodifluoromethane
Concen: 0.267 ppbv m
RT: 1.480 min Scan# 41
Delta R.T. 0.006 min
Lab File: VL042234.D
Acq: 07 Apr 2025 14:18

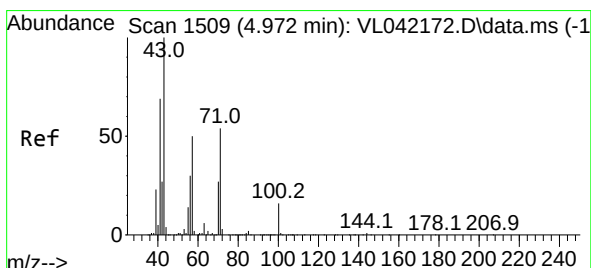
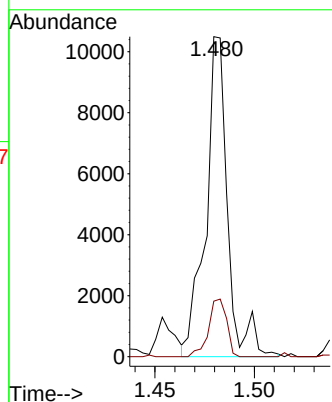
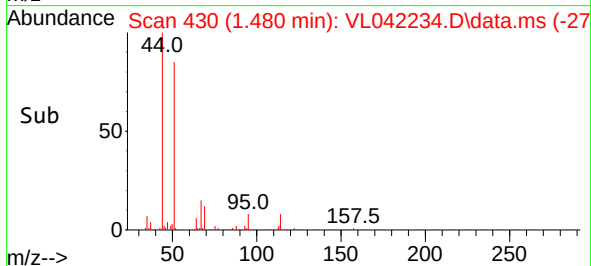
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B1-2-04012025



Tgt Ion: 51 Resp: 7980
Ion Ratio Lower Upper
51 100
67 15.1 15.0 22.6

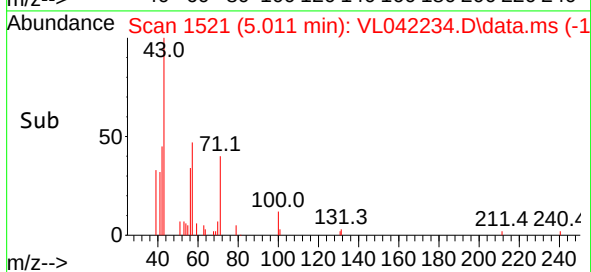
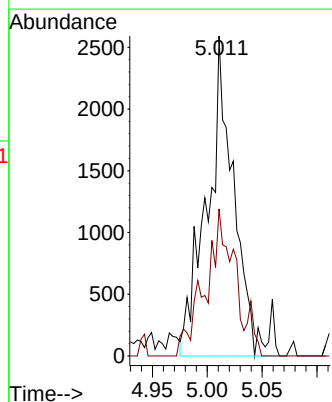
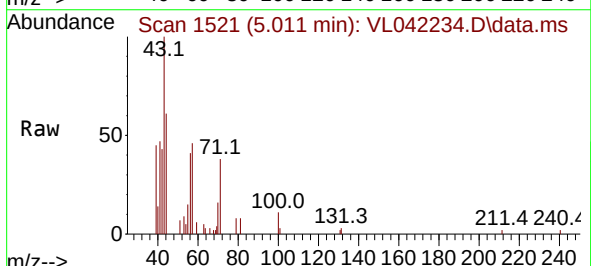
Manual Integrations
APPROVED

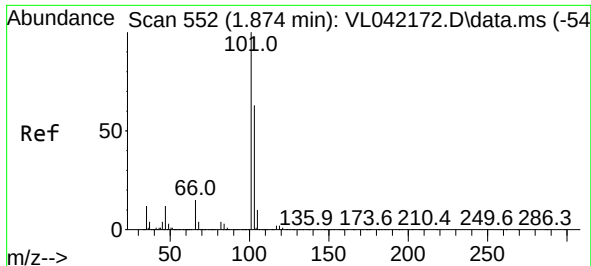
Reviewed By :Semsettin Yesilyurt 04/08/2025
Supervised By :Mahesh Dadoda 04/09/2025



#10
Heptane
Concen: 0.122 ppbv m
RT: 5.011 min Scan# 1521
Delta R.T. 0.039 min
Lab File: VL042234.D
Acq: 07 Apr 2025 14:18

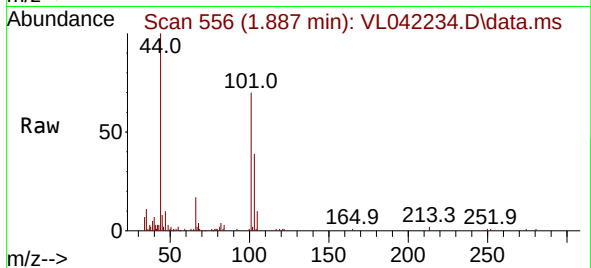
Tgt Ion: 43 Resp: 4434
Ion Ratio Lower Upper
43 100
57 51.1 39.4 59.2





#11
Trichlorofluoromethane
Concen: 0.211 ppbv
RT: 1.887 min Scan# 501
Delta R.T. 0.013 min
Lab File: VL042234.D
Acq: 07 Apr 2025 14:18

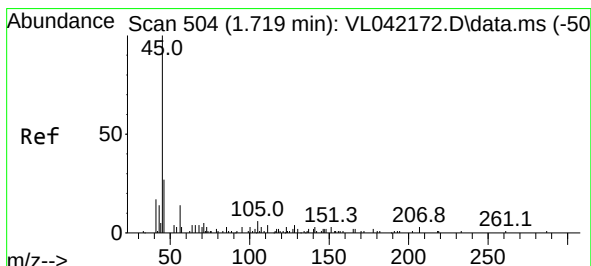
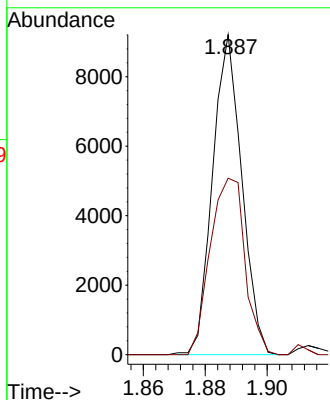
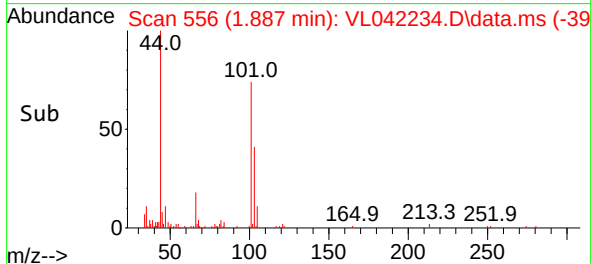
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B1-2-04012025



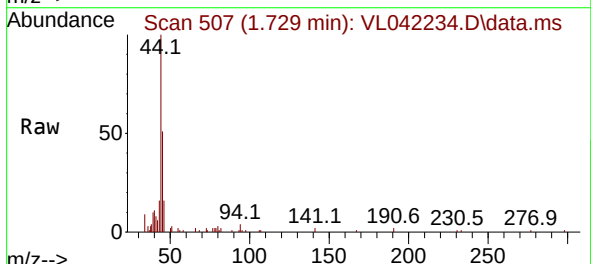
Tgt Ion:101 Resp: 6010
Ion Ratio Lower Upper
101 100
103 55.2 50.2 75.2

Manual Integrations
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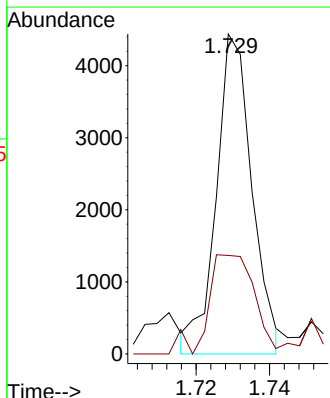
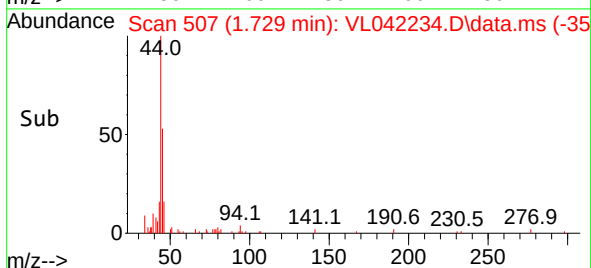
Reviewed By :Semsettin Yesilyurt 04/08/2025
Supervised By :Mahesh Dadoda 04/09/2025

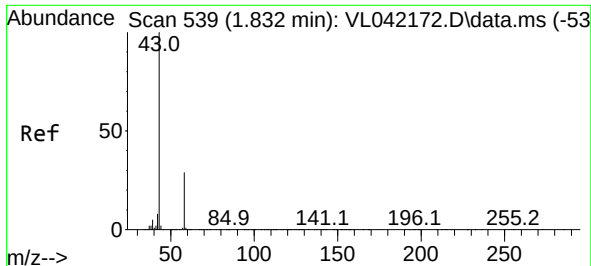


#13
Ethanol
Concen: 2.311 ppbv m
RT: 1.729 min Scan# 507
Delta R.T. 0.010 min
Lab File: VL042234.D
Acq: 07 Apr 2025 14:18



Tgt Ion: 45 Resp: 2993
Ion Ratio Lower Upper
45 100
46 7824.8 20.2 80.8#





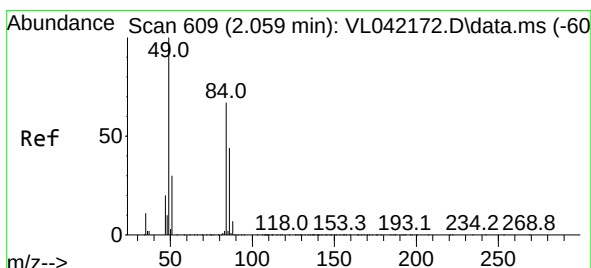
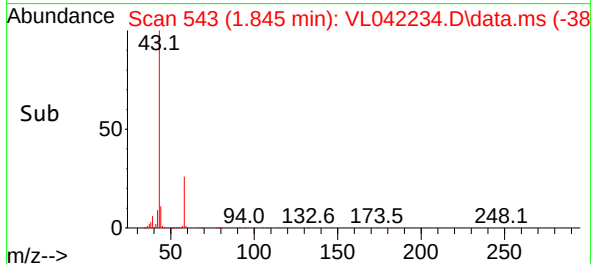
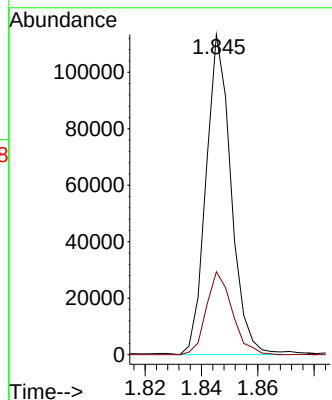
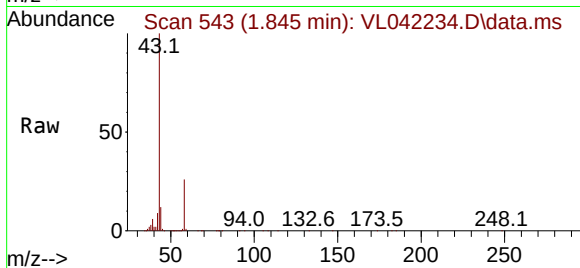
#15
Acetone
Concen: 2.528 ppbv
RT: 1.845 min Scan# 54
Delta R.T. 0.013 min
Lab File: VL042234.D
Acq: 07 Apr 2025 14:18

Instrument :
MSVOA_L
ClientSampleId :
SSSG-B1-2-04012025

Tgt Ion: 43 Resp: 70052
Ion Ratio Lower Upper
43 100
58 26.8 23.2 34.8

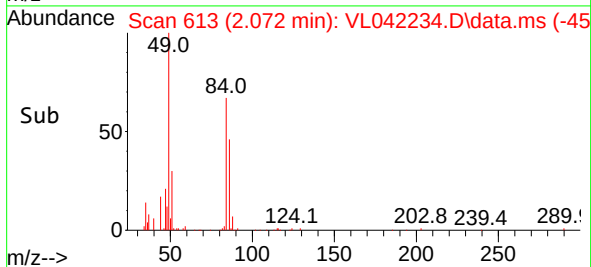
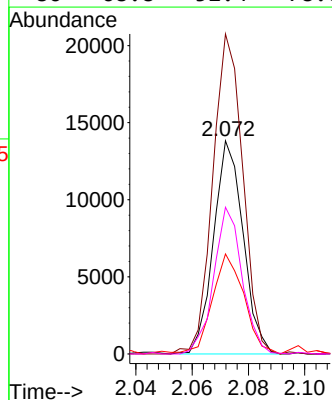
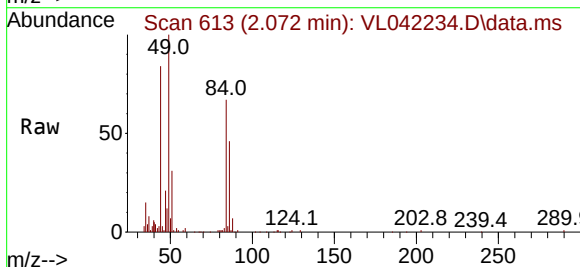
Manual Integrations
APPROVED

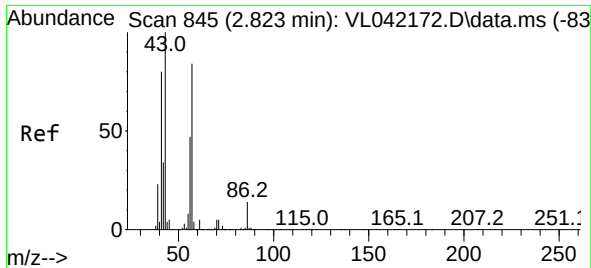
Reviewed By :Semsettin Yesilyurt 04/08/2025
Supervised By :Mahesh Dadoda 04/09/2025



#20
Methylene Chloride
Concen: 0.976 ppbv
RT: 2.072 min Scan# 613
Delta R.T. 0.013 min
Lab File: VL042234.D
Acq: 07 Apr 2025 14:18

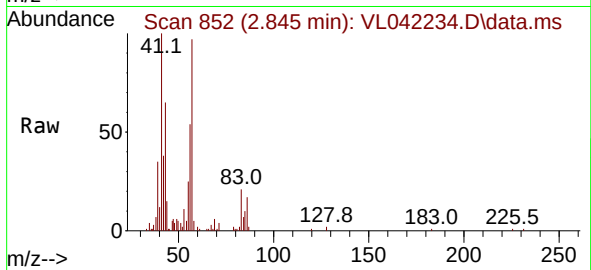
Tgt Ion: 84 Resp: 10076
Ion Ratio Lower Upper
84 100
49 150.1 120.2 180.4
51 46.9 37.4 56.0
86 68.8 52.4 78.6





#26
Hexane
Concen: 0.305 ppbv m
RT: 2.845 min Scan# 847
Delta R.T. 0.023 min
Lab File: VL042234.D
Acq: 07 Apr 2025 14:18

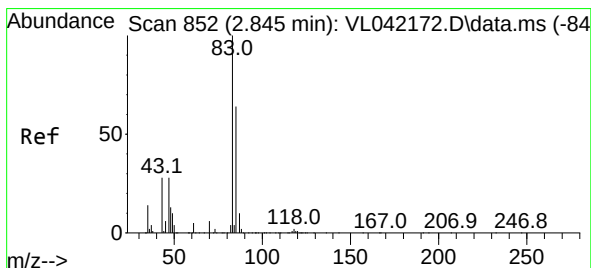
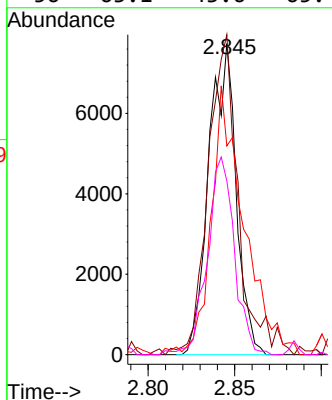
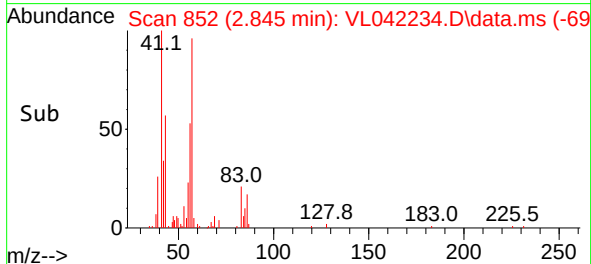
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B1-2-04012025



Tgt Ion: 57 Resp: 8472
Ion Ratio Lower Upper
57 100
41 114.6 76.6 114.8
43 108.1 207.8 311.8
56 63.1 43.6 65.4

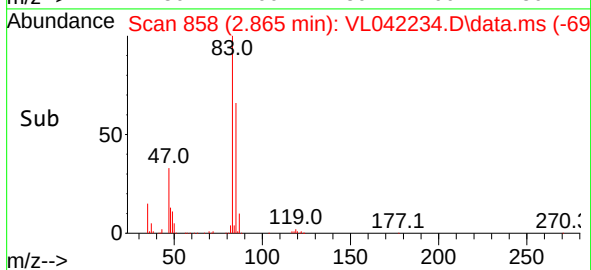
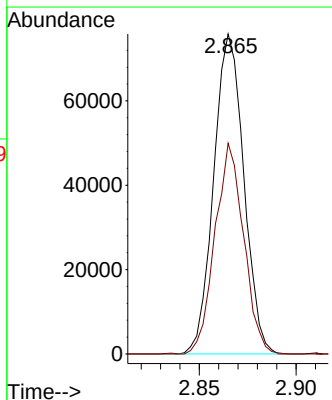
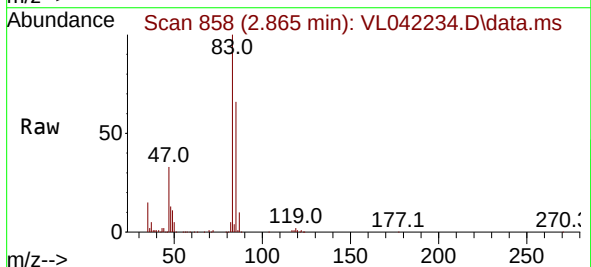
Manual Integrations
APPROVED

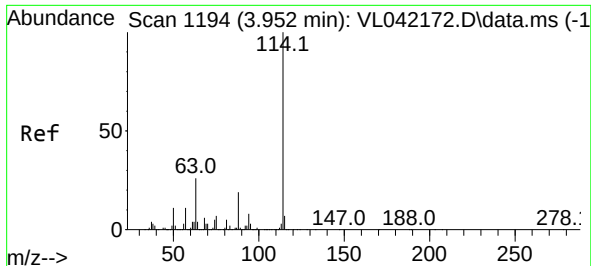
Reviewed By :Semsettin Yesilyurt 04/08/2025
Supervised By :Mahesh Dadoda 04/09/2025



#29
Chloroform
Concen: 2.015 ppbv
RT: 2.865 min Scan# 858
Delta R.T. 0.019 min
Lab File: VL042234.D
Acq: 07 Apr 2025 14:18

Tgt Ion: 83 Resp: 81943
Ion Ratio Lower Upper
83 100
85 65.8 51.4 77.2





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.981 min Scan# 1194

Delta R.T. 0.029 min

Lab File: VL042234.D

Acq: 07 Apr 2025 14:18

Instrument :

MSVOA_L

ClientSampleId :

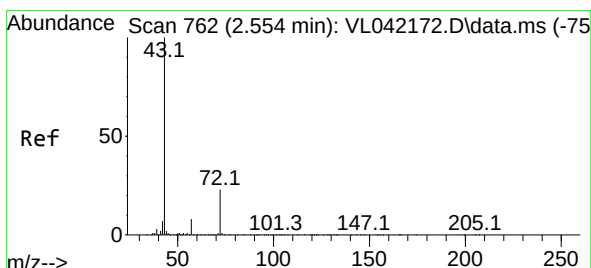
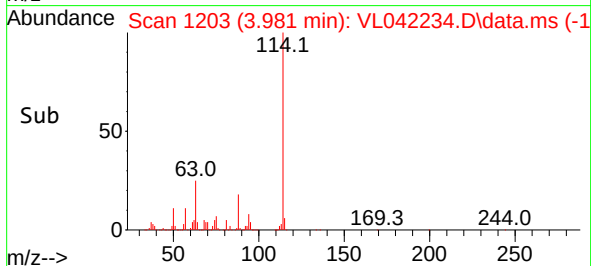
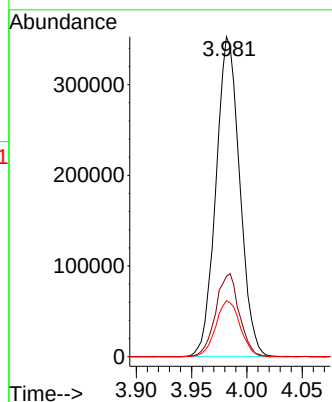
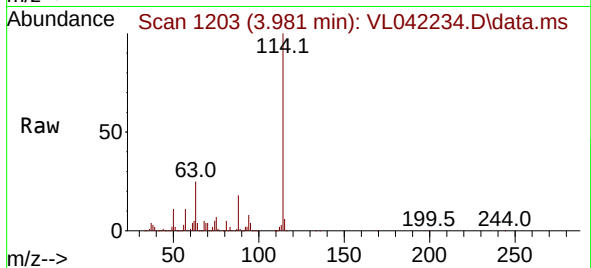
SSSG-B1-2-04012025

Tgt Ion:114 Resp: 52729
 Ion Ratio Lower Upper
 114 100
 63 25.9 20.7 31.1
 88 17.9 15.0 22.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/08/2025
 Supervised By :Mahesh Dadoda 04/09/2025



#34

2-Butanone

Concen: 0.204 ppbv

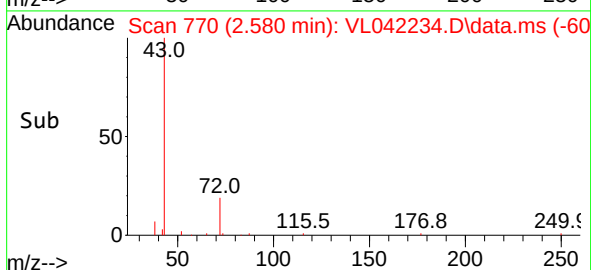
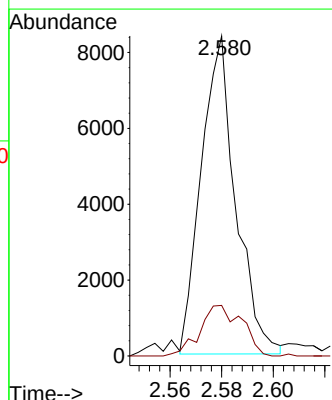
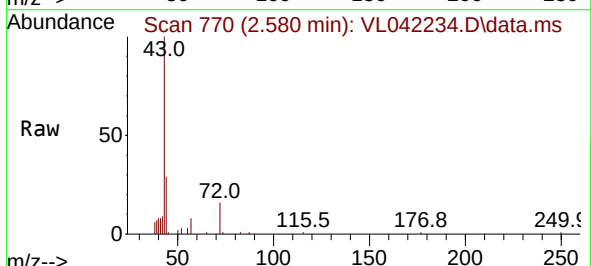
RT: 2.580 min Scan# 770

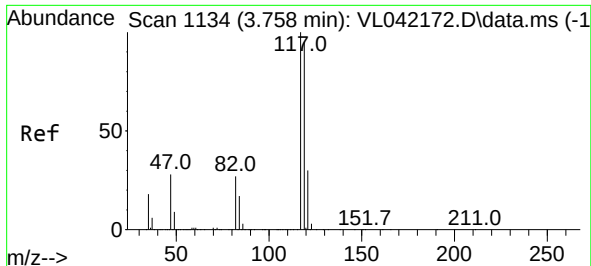
Delta R.T. 0.026 min

Lab File: VL042234.D

Acq: 07 Apr 2025 14:18

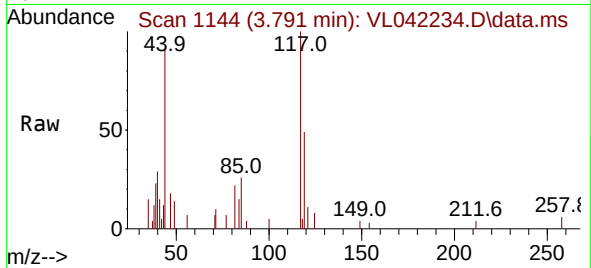
Tgt Ion: 43 Resp: 7789
 Ion Ratio Lower Upper
 43 100
 72 19.6 18.2 27.2





#35
Carbon Tetrachloride
Concen: 0.068 ppbv m
RT: 3.791 min Scan# 1114
Delta R.T. 0.032 min
Lab File: VL042234.D
Acq: 07 Apr 2025 14:18

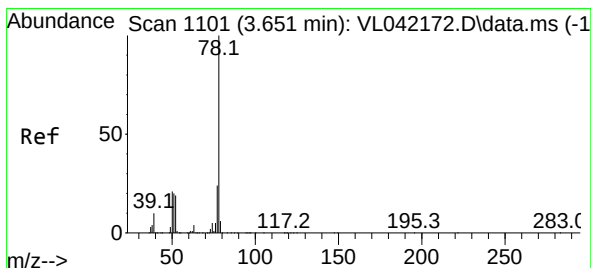
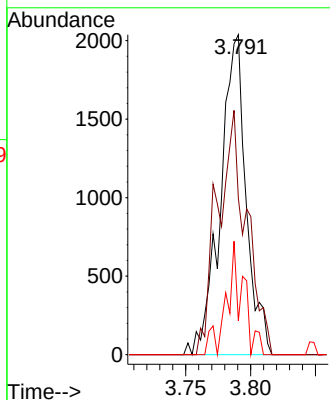
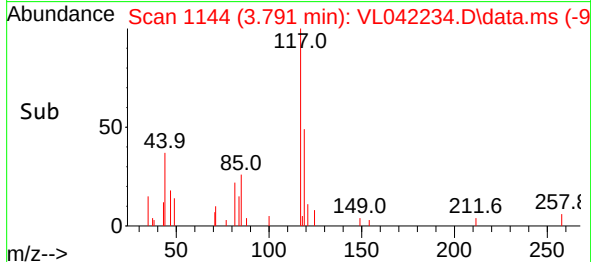
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B1-2-04012025



Tgt Ion: 117 Resp: 2819
Ion Ratio Lower Upper
117 100
119 48.9 76.2 114.2
121 10.5 24.2 36.4

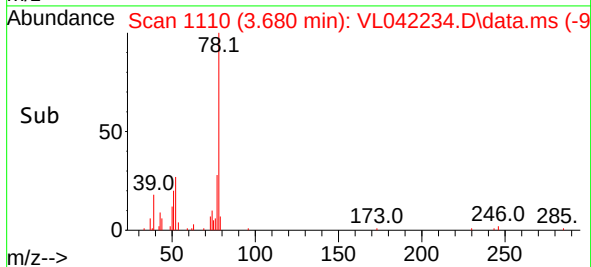
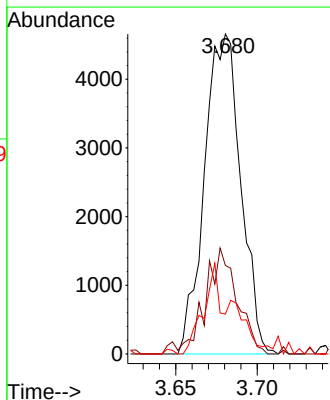
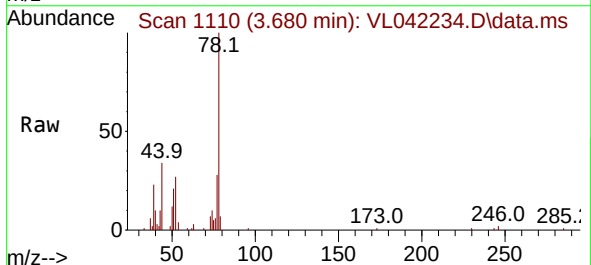
Manual Integrations
APPROVED

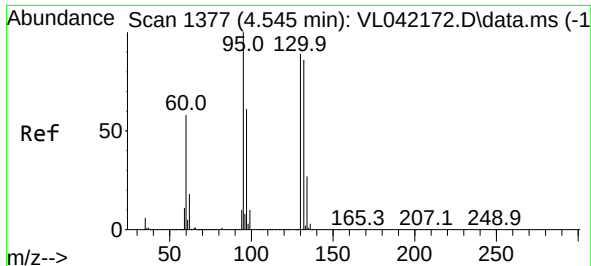
Reviewed By :Semsettin Yesilyurt 04/08/2025
Supervised By :Mahesh Dadoda 04/09/2025



#36
Benzene
Concen: 0.138 ppbv
RT: 3.680 min Scan# 1110
Delta R.T. 0.029 min
Lab File: VL042234.D
Acq: 07 Apr 2025 14:18

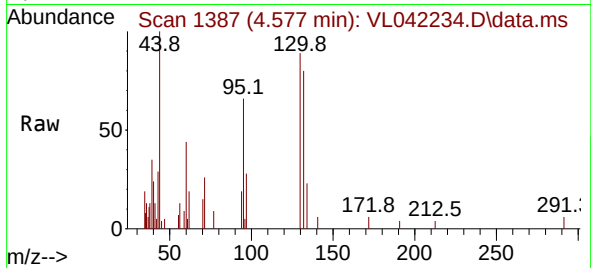
Tgt Ion: 78 Resp: 7218
Ion Ratio Lower Upper
78 100
77 27.6 19.1 28.7
50 12.5 16.6 24.8





#38
 Trichloroethene
 Concen: 0.067 ppbv m
 RT: 4.577 min Scan# 1387
 Delta R.T. 0.032 min
 Lab File: VL042234.D
 Acq: 07 Apr 2025 14:18

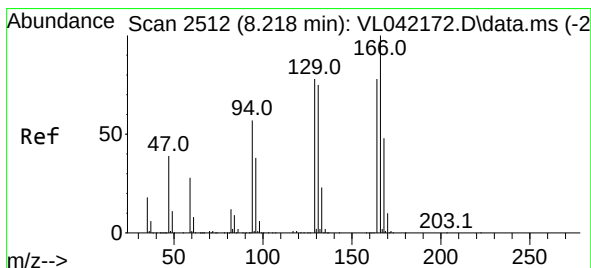
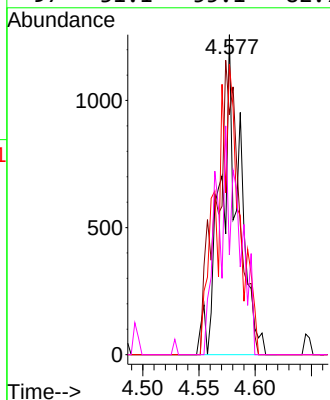
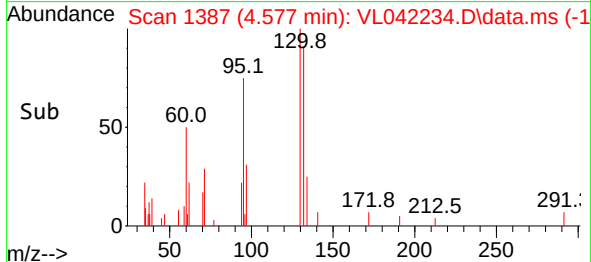
Instrument : MSVOA_L
 ClientSampleId : SSSG-B1-2-04012025



Tgt Ion:130 Resp: 145
 Ion Ratio Lower Upper
 130 100
 95 75.1 89.8 134.8#
 132 90.8 77.4 116.2#
 97 31.1 55.1 82.7#

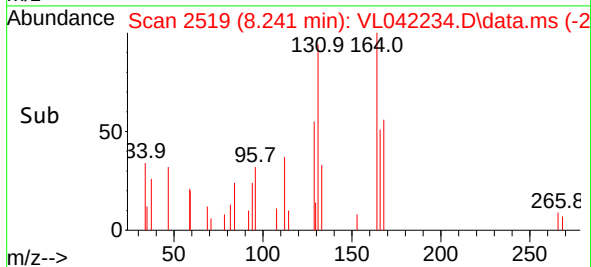
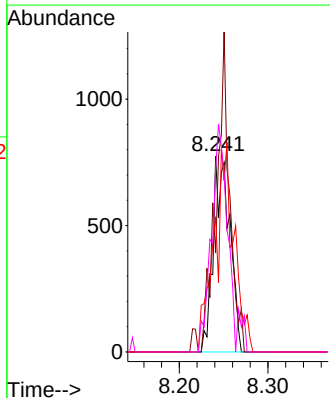
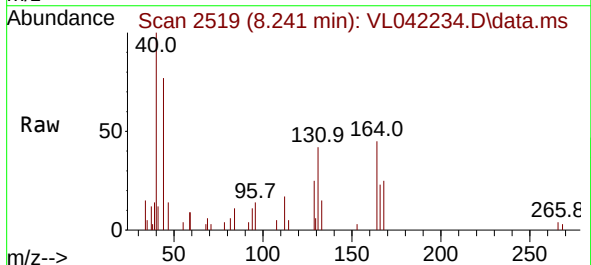
Manual Integrations
 APPROVED

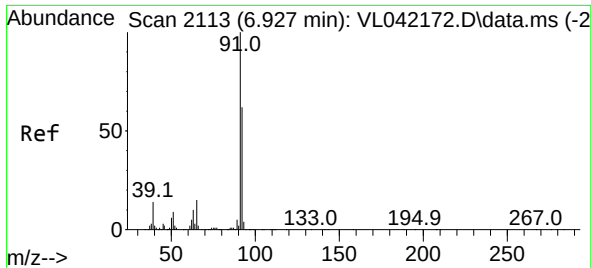
Reviewed By :Semsettin Yesilyurt 04/08/2025
 Supervised By :Mahesh Dadoda 04/09/2025



#52
 Tetrachloroethene
 Concen: 0.049 ppbv m
 RT: 8.241 min Scan# 2519
 Delta R.T. 0.023 min
 Lab File: VL042234.D
 Acq: 07 Apr 2025 14:18

Tgt Ion:164 Resp: 1024
 Ion Ratio Lower Upper
 164 100
 166 50.6 102.5 153.7#
 129 55.0 79.8 119.8#
 131 93.8 76.6 114.8





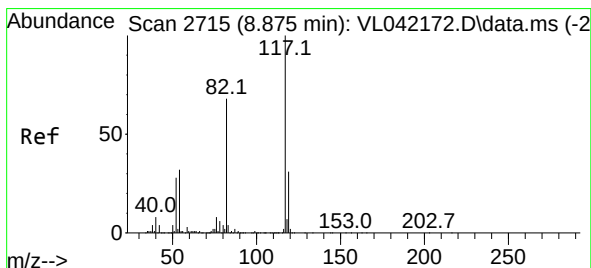
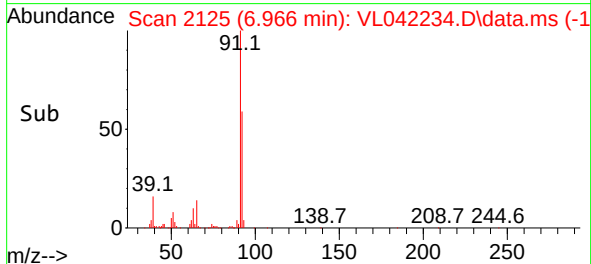
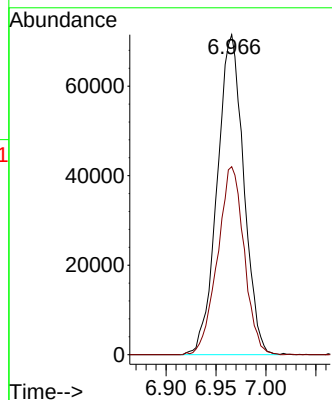
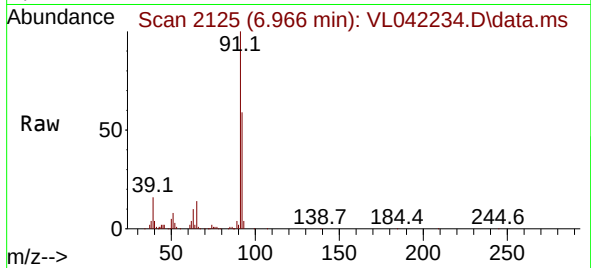
#53
Toluene
Concen: 2.132 ppbv
RT: 6.966 min Scan# 2113
Delta R.T. 0.039 min
Lab File: VL042234.D
Acq: 07 Apr 2025 14:18

Instrument :
MSVOA_L
ClientSampleId :
SSSG-B1-2-04012025

Tgt Ion: 91 Resp: 132108
Ion Ratio Lower Upper
91 100
92 58.9 48.4 72.6

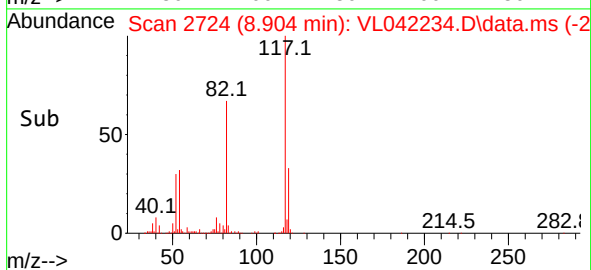
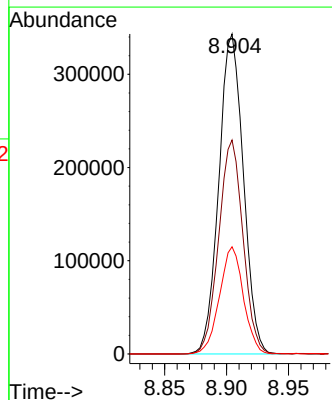
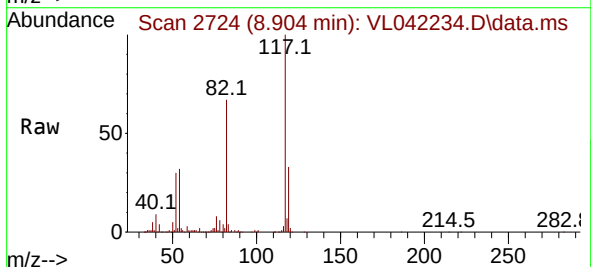
Manual Integrations
APPROVED

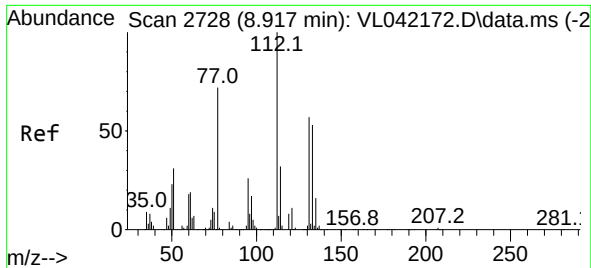
Reviewed By :Semsettin Yesilyurt 04/08/2025
Supervised By :Mahesh Dadoda 04/09/2025



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.904 min Scan# 2724
Delta R.T. 0.029 min
Lab File: VL042234.D
Acq: 07 Apr 2025 14:18

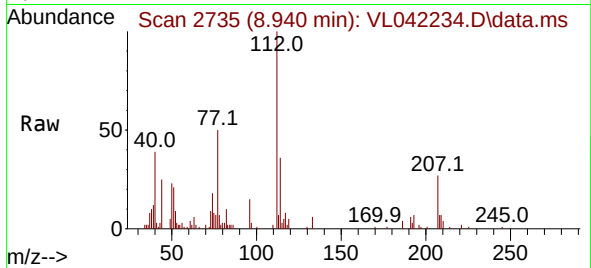
Tgt Ion:117 Resp: 473671
Ion Ratio Lower Upper
117 100
82 66.2 55.8 83.6
119 32.8 25.5 38.3





#57
Chlorobenzene
Concen: 0.198 ppbv
RT: 8.940 min Scan# 21
Delta R.T. 0.023 min
Lab File: VL042234.D
Acq: 07 Apr 2025 14:18

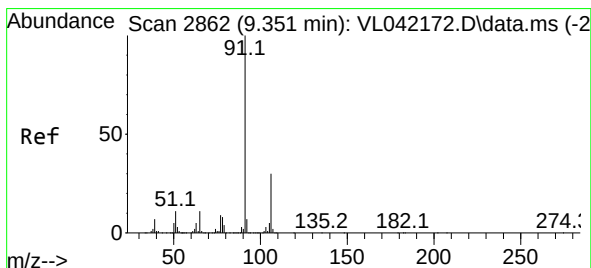
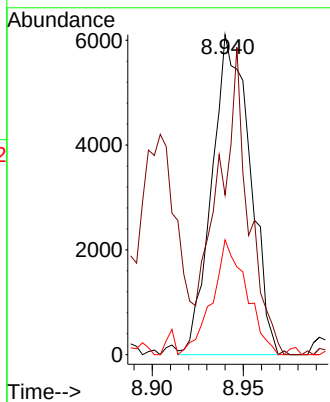
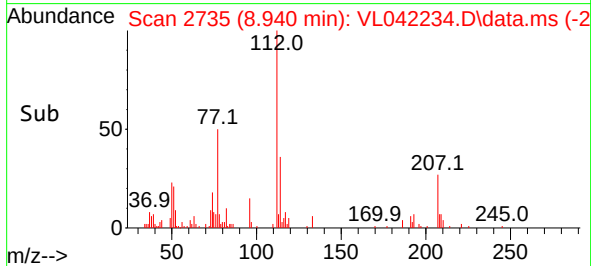
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B1-2-04012025



Tgt Ion: 112 Resp: 890
Ion Ratio Lower Upper
112 100
77 46.2 58.2 87.2
114 35.9 29.1 35.5

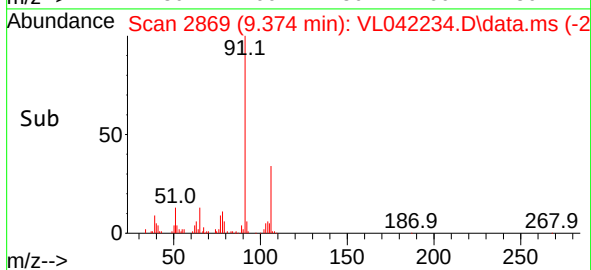
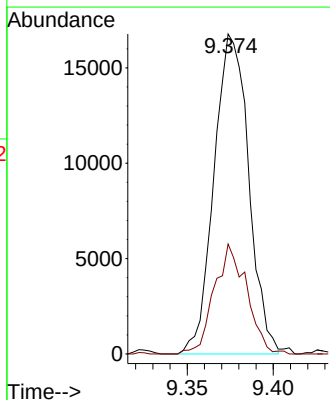
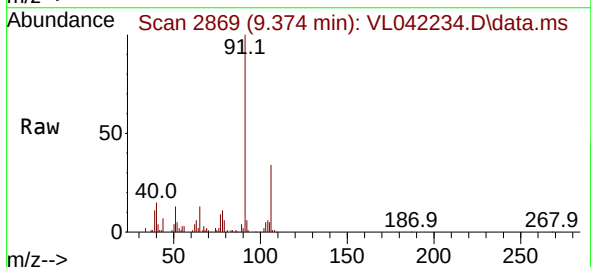
Manual Integrations
APPROVED

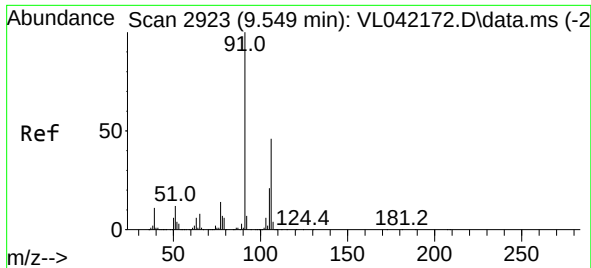
Reviewed By :Semsettin Yesilyurt 04/08/2025
Supervised By :Mahesh Dadoda 04/09/2025



#58
Ethyl Benzene
Concen: 0.279 ppbv
RT: 9.374 min Scan# 2869
Delta R.T. 0.023 min
Lab File: VL042234.D
Acq: 07 Apr 2025 14:18

Tgt Ion: 91 Resp: 23493
Ion Ratio Lower Upper
91 100
106 34.3 24.2 36.2





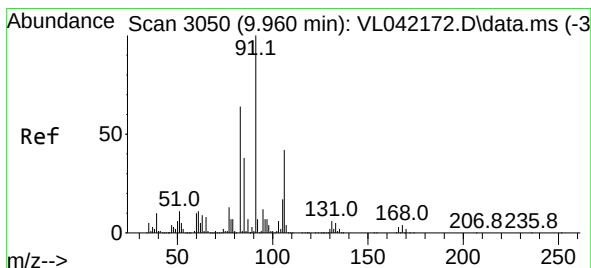
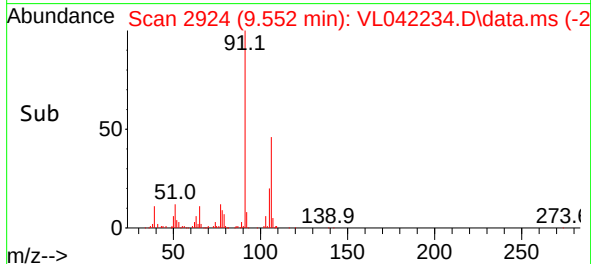
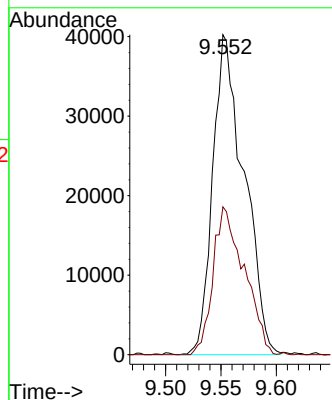
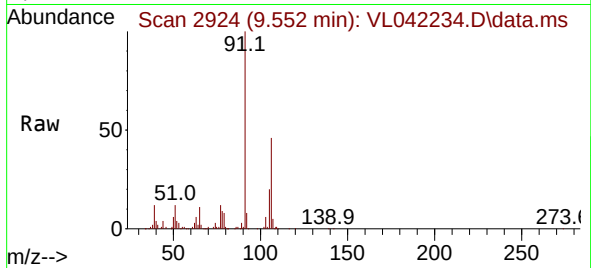
#59
m/p-Xylene
Concen: 1.177 ppbv
RT: 9.552 min Scan# 2924
Delta R.T. 0.003 min
Lab File: VL042234.D
Acq: 07 Apr 2025 14:18

Instrument :
MSVOA_L
ClientSampleId :
SSSG-B1-2-04012025

Tgt Ion: 91 Resp: 7908
Ion Ratio Lower Upper
91 100
106 46.2 36.4 54.6

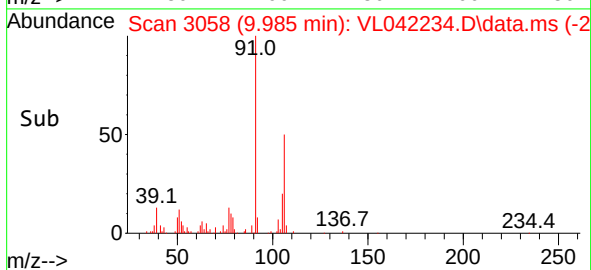
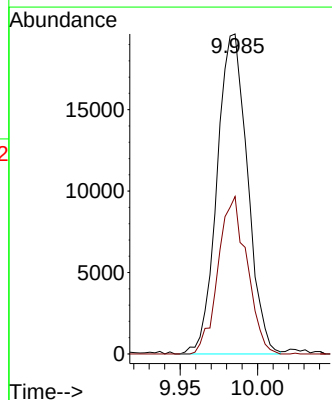
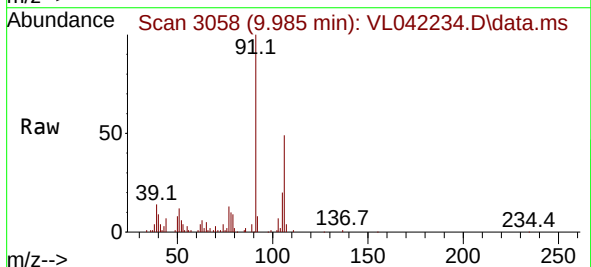
Manual Integrations
APPROVED

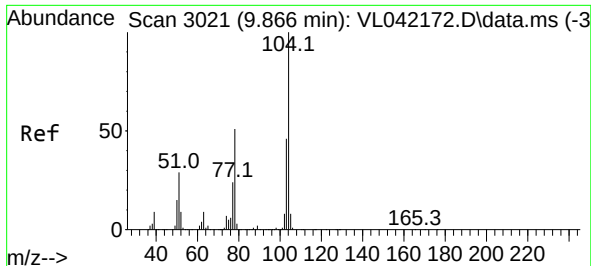
Reviewed By :Semsettin Yesilyurt 04/08/2025
Supervised By :Mahesh Dadoda 04/09/2025



#60
o-Xylene
Concen: 0.398 ppbv
RT: 9.985 min Scan# 3058
Delta R.T. 0.026 min
Lab File: VL042234.D
Acq: 07 Apr 2025 14:18

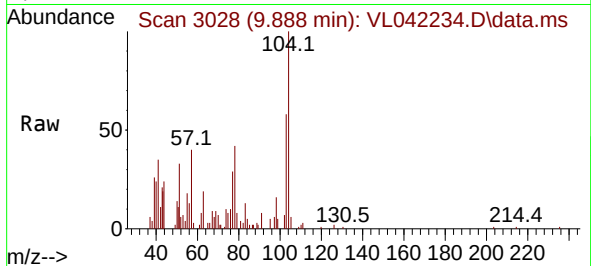
Tgt Ion: 91 Resp: 26822
Ion Ratio Lower Upper
91 100
106 46.6 20.8 62.5





#61
Styrene
Concen: 0.219 ppbv
RT: 9.888 min Scan# 3021
Delta R.T. 0.023 min
Lab File: VL042234.D
Acq: 07 Apr 2025 14:18

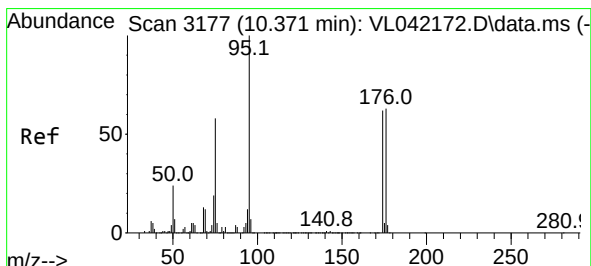
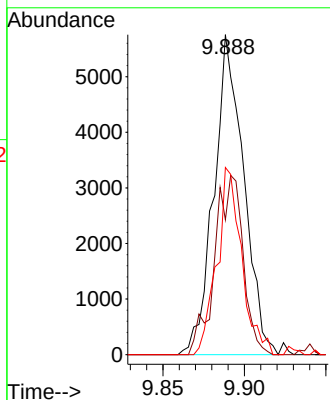
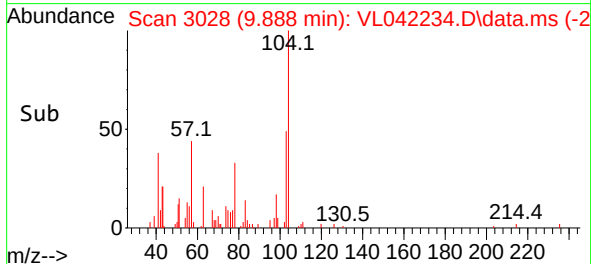
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B1-2-04012025



Tgt Ion:104 Resp: 7302
Ion Ratio Lower Upper
104 100
78 53.5 41.8 62.6
103 49.3 37.0 55.4

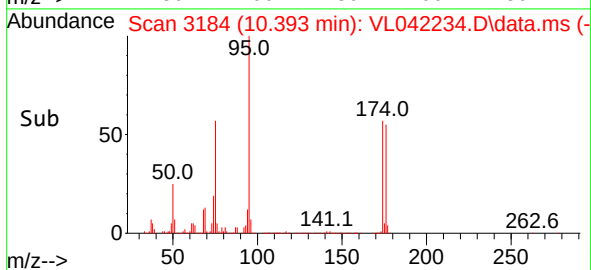
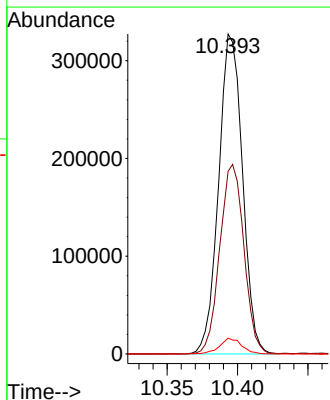
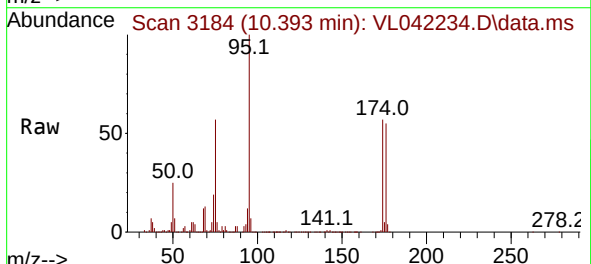
Manual Integrations
APPROVED

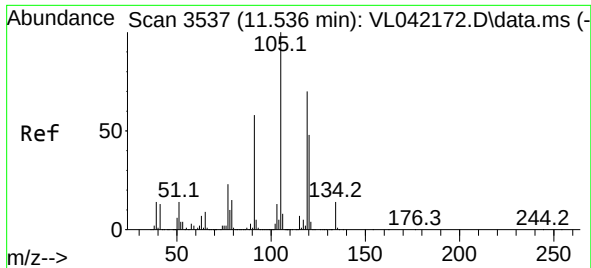
Reviewed By :Semsettin Yesilyurt 04/08/2025
Supervised By :Mahesh Dadoda 04/09/2025



#68
1-Bromo-4-Fluorobenzene
Concen: 9.917 ppbv
RT: 10.393 min Scan# 3184
Delta R.T. 0.023 min
Lab File: VL042234.D
Acq: 07 Apr 2025 14:18

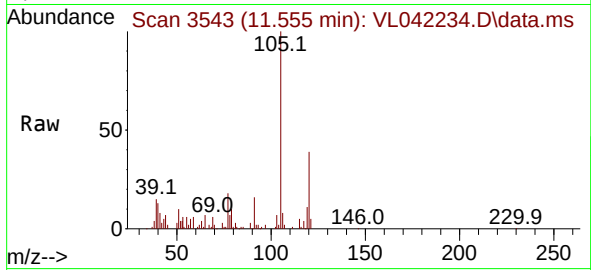
Tgt Ion: 95 Resp: 385746
Ion Ratio Lower Upper
95 100
174 60.0 50.6 76.0
175 4.6 3.8 5.6





#74
 1,2,4-Trimethylbenzene
 Concen: 0.233 ppbv
 RT: 11.555 min Scan# 3543
 Delta R.T. 0.019 min
 Lab File: VL042234.D
 Acq: 07 Apr 2025 14:18

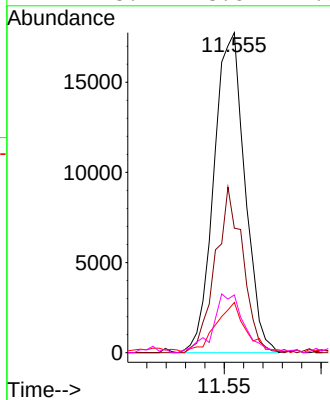
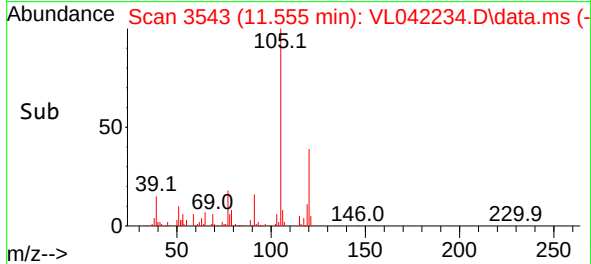
Instrument : MSVOA_L
 ClientSampleId : SSSG-B1-2-04012025



Tgt Ion:	105	Resp:	1969
Ion Ratio	Lower	Upper	
105	100		
120	38.9	38.6	58.0
91	15.2	46.2	69.2
77	18.1	18.6	27.8

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 04/08/2025
 Supervised By :Mahesh Dadoda 04/09/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040725\
 Data File : VL042234.D
 Acq On : 07 Apr 2025 14:18
 Operator : SY/MD
 Sample : Q1725-01
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SSSG-B1-2-04012025

Integration Parameters: RTEINT.P

Integrator: RTE

Smoothing : ON

Filtering: 5

Sampling : 3

Min Area: 3 % of largest Peak

Start Thrs: 0.001

Max Peaks: 100

Stop Thrs : 0

Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >

Peak separation: 0

Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M

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

Signal : TIC: VL042234.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.431	411	415	416	rBV2	4348521	2294973	72.13%	16.499%
2	1.441	416	418	423	rVB	4439658	3181825	100.00%	22.875%
3	1.845	538	543	550	rBV	173987	120481	3.79%	0.866%
4	2.072	609	613	620	rVB2	69643	55001	1.73%	0.395%
5	2.803	827	839	846	rBV	745988	765779	24.07%	5.505%
6	2.865	852	858	866	rVB	215584	240344	7.55%	1.728%
7	3.981	1189	1203	1215	rBV	929823	1416955	44.53%	10.187%
8	6.962	2107	2124	2140	rBV	185648	359242	11.29%	2.583%
9	8.904	2705	2724	2733	rBV	1221292	1749965	55.00%	12.581%
10	8.953	2733	2739	2749	rVB8	30006	57087	1.79%	0.410%
11	9.244	2818	2829	2842	rBV3	89119	135488	4.26%	0.974%
12	9.374	2862	2869	2879	rBV2	47386	75537	2.37%	0.543%
13	9.552	2915	2924	2929	rBV	120686	180933	5.69%	1.301%
14	9.571	2929	2930	2941	rVB6	78132	78400	2.46%	0.564%
15	9.733	2972	2980	2995	rVB6	54368	98714	3.10%	0.710%
16	9.885	3018	3027	3035	rVB8	36948	55783	1.75%	0.401%
17	9.982	3047	3057	3069	rBV2	60168	97775	3.07%	0.703%
18	10.396	3165	3185	3195	rBV	1521766	1873215	58.87%	13.467%
19	10.876	3326	3333	3341	rBV4	70901	84236	2.65%	0.606%
20	11.552	3534	3542	3551	rVB3	57552	76118	2.39%	0.547%
21	11.791	3612	3616	3623	rVB3	42538	47874	1.50%	0.344%
22	12.245	3749	3756	3761	rBV7	35175	44895	1.41%	0.323%
23	12.458	3814	3822	3831	rVB2	69170	77521	2.44%	0.557%
24	12.659	3878	3884	3889	rBV3	62567	66715	2.10%	0.480%
25	12.892	3947	3956	3961	rBV2	68619	73492	2.31%	0.528%
26	12.940	3964	3971	3982	rVV8	31739	46724	1.47%	0.336%
27	13.008	3985	3992	4005	rVB4	32108	52214	1.64%	0.375%
28	13.400	4105	4113	4121	rBV2	516107	502519	15.79%	3.613%

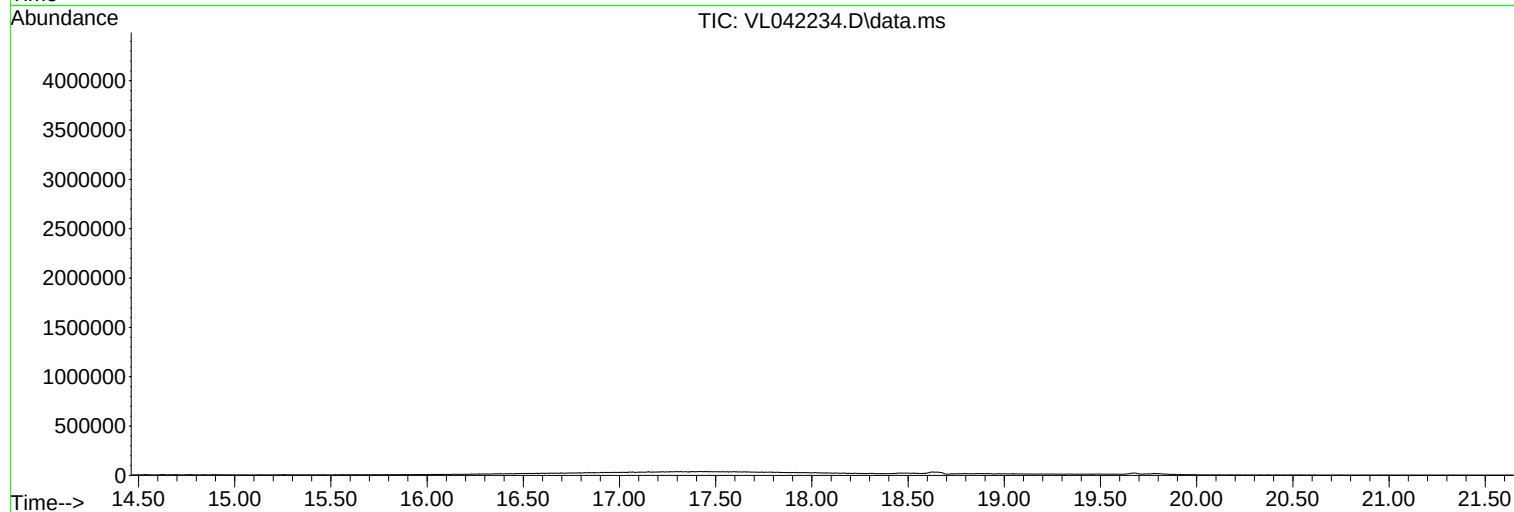
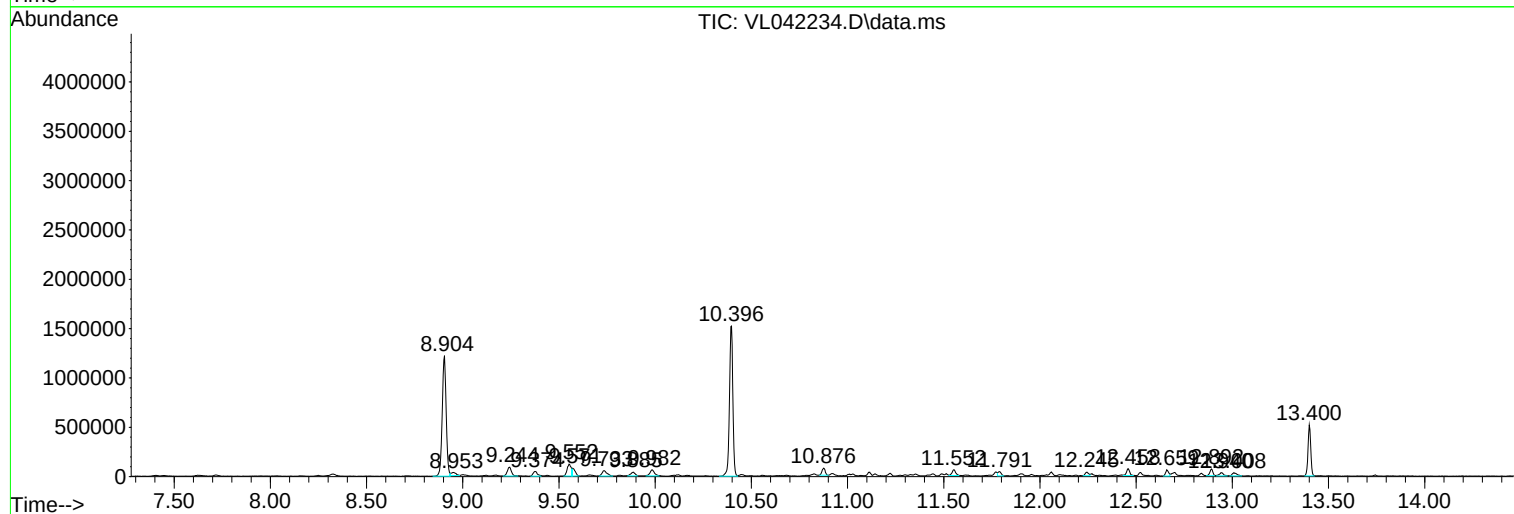
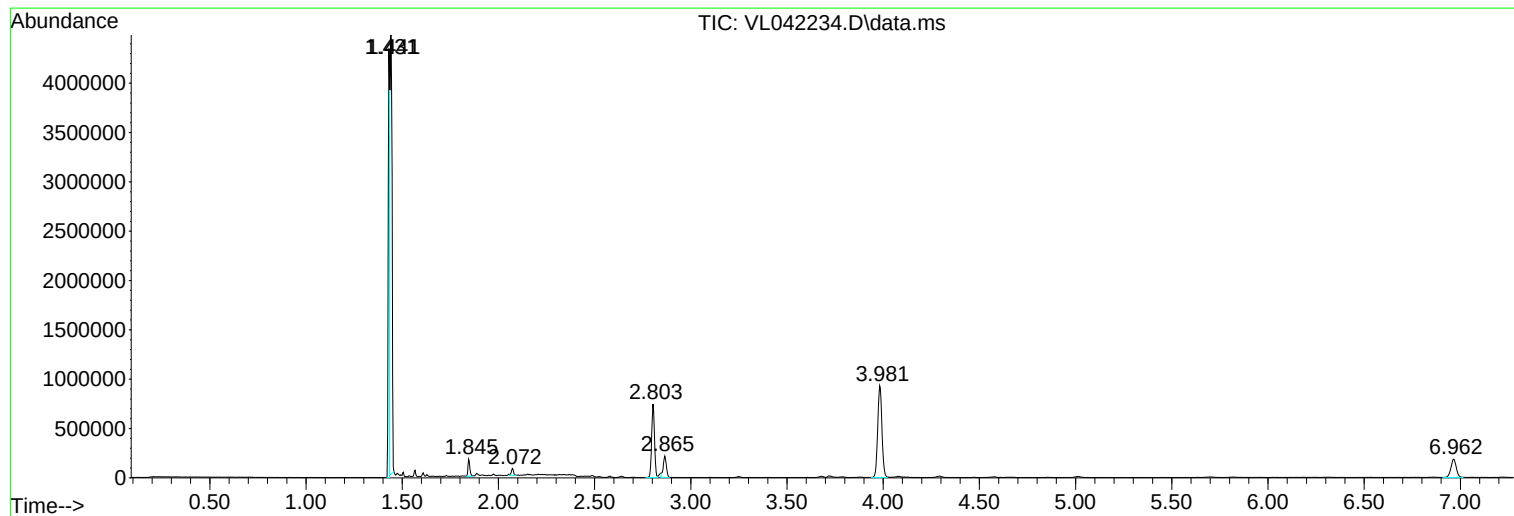
Sum of corrected areas: 13909805

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040725\
Data File : VL042234.D
Acq On : 07 Apr 2025 14:18
Operator : SY/MD
Sample : Q1725-01
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
SSSG-B1-2-04012025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040725\
Data File : VL042234.D
Acq On : 07 Apr 2025 14:18
Operator : SY/MD
Sample : Q1725-01
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
SSSG-B1-2-04012025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040725\
Data File : VL042234.D
Acq On : 07 Apr 2025 14:18
Operator : SY/MD
Sample : Q1725-01
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
SSSG-B1-2-04012025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

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

Report of Analysis

Client:	Woodard & Curran	Date Collected:	04/01/25
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	04/03/25
Client Sample ID:	SSSG-B10-4-04012025	SDG No.:	Q1725
Lab Sample ID:	Q1725-02	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042235.D	1		04/07/25 14:51	VL040725

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.40	1.98	J	1.04	2.47	ug/m3
74-87-3	Chloromethane	0.13	0.27	J	0.21	1.03	ug/m3
75-01-4	Vinyl Chloride	0.010	0.030	U	0.030	0.080	ug/m3
74-83-9	Bromomethane	0.14	0.54	U	0.54	1.94	ug/m3
75-00-3	Chloroethane	0.17	0.45	U	0.45	1.32	ug/m3
109-99-9	Tetrahydrofuran	0.13	0.38	U	0.38	1.47	ug/m3
75-69-4	Trichlorofluoromethane	0.23	1.29	J	0.90	2.81	ug/m3
76-13-1	1,1,2-Trichlorotrifluoroethane	0.16	1.23	U	1.23	3.83	ug/m3
76-14-2	Dichlorotetrafluoroethane	0.090	0.63	U	0.63	3.49	ug/m3
75-65-0	tert-Butyl alcohol	0.49	1.49	J	0.58	1.52	ug/m3
142-82-5	Heptane	0.15	0.61	J	0.45	2.05	ug/m3
75-35-4	1,1-Dichloroethene	1.60	6.34		0.56	1.98	ug/m3
67-64-1	Acetone	31.3	74.3	E	0.57	1.19	ug/m3
75-15-0	Carbon Disulfide	0.16	0.50	U	0.50	1.56	ug/m3
1634-04-4	Methyl tert-Butyl Ether	0.12	0.43	U	0.43	1.80	ug/m3
75-09-2	Methylene Chloride	0.67	2.33		0.66	1.74	ug/m3
156-60-5	trans-1,2-Dichloroethene	0.19	0.75	U	0.75	1.98	ug/m3
75-34-3	1,1-Dichloroethane	0.13	0.53	U	0.53	2.02	ug/m3
110-82-7	Cyclohexane	0.22	0.76	U	0.76	1.72	ug/m3
78-93-3	2-Butanone	0.69	2.04		0.35	1.47	ug/m3
56-23-5	Carbon Tetrachloride	3.60	22.6		0.060	0.19	ug/m3
156-59-2	cis-1,2-Dichloroethene	0.090	0.36	U	0.36	1.98	ug/m3
67-66-3	Chloroform	120	586	E	0.39	2.44	ug/m3
71-55-6	1,1,1-Trichloroethane	0.11	0.60		0.050	0.16	ug/m3
540-84-1	2,2,4-Trimethylpentane	0.10	0.47	U	0.47	2.34	ug/m3
71-43-2	Benzene	0.24	0.77	J	0.29	1.60	ug/m3
107-06-2	1,2-Dichloroethane	0.090	0.36	U	0.36	2.02	ug/m3
79-01-6	Trichloroethene	0.92	4.94		0.11	0.16	ug/m3
78-87-5	1,2-Dichloropropane	0.11	0.51	U	0.51	2.31	ug/m3
75-27-4	Bromodichloromethane	0.42	2.81	J	0.54	3.35	ug/m3
108-10-1	4-Methyl-2-Pentanone	0.090	0.37	U	0.37	2.05	ug/m3
108-88-3	Toluene	1.40	5.28		0.41	1.88	ug/m3
10061-02-6	t-1,3-Dichloropropene	0.060	0.27	U	0.27	2.27	ug/m3
10061-01-5	cis-1,3-Dichloropropene	0.060	0.27	U	0.27	2.27	ug/m3
79-00-5	1,1,2-Trichloroethane	0.070	0.38	U	0.38	2.73	ug/m3

Report of Analysis

Client:	Woodard & Curran	Date Collected:	04/01/25
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	04/03/25
Client Sample ID:	SSSG-B10-4-04012025	SDG No.:	Q1725
Lab Sample ID:	Q1725-02	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042235.D	1		04/07/25 14:51	VL040725

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
124-48-1	Dibromochloromethane	0.070	0.60	U	0.60	4.26	ug/m3
106-93-4	1,2-Dibromoethane	0.070	0.54	U	0.54	0.77	ug/m3
127-18-4	Tetrachloroethene	3.10	21.0		0.14	0.20	ug/m3
108-90-7	Chlorobenzene	0.16	0.74	J	0.37	2.30	ug/m3
100-41-4	Ethyl Benzene	0.27	1.17	J	0.52	2.17	ug/m3
179601-23-1	m/p-Xylene	1.10	4.78		0.91	4.34	ug/m3
95-47-6	o-Xylene	0.39	1.69	J	0.52	2.17	ug/m3
100-42-5	Styrene	0.34	1.45	J	0.47	2.13	ug/m3
75-25-2	Bromoform	0.060	0.62	U	0.62	5.17	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	0.010	0.070	U	0.070	0.21	ug/m3
95-49-8	2-Chlorotoluene	0.11	0.57	U	0.57	2.59	ug/m3
108-67-8	1,3,5-Trimethylbenzene	0.11	0.54	U	0.54	2.46	ug/m3
95-63-6	1,2,4-Trimethylbenzene	0.38	1.87	J	0.39	2.46	ug/m3
541-73-1	1,3-Dichlorobenzene	0.080	0.48	U	0.48	3.01	ug/m3
106-46-7	1,4-Dichlorobenzene	0.050	0.30	U	0.30	3.01	ug/m3
95-50-1	1,2-Dichlorobenzene	0.080	0.48	U	0.48	3.01	ug/m3
120-82-1	1,2,4-Trichlorobenzene	0.090	0.67	U	0.67	3.71	ug/m3
87-68-3	Hexachloro-1,3-Butadiene	0.090	0.96	U	0.96	5.33	ug/m3
106-99-0	1,3-Butadiene	0.13	0.29	U	0.29	1.11	ug/m3
91-20-3	Naphthalene	0.080	0.42	U	0.42	0.52	ug/m3
622-96-8	4-Ethyltoluene	0.12	0.59	U	0.59	2.46	ug/m3
110-54-3	Hexane	0.45	1.59	J	0.39	1.76	ug/m3
107-05-1	Allyl Chloride	0.15	0.47	U	0.47	1.57	ug/m3
123-91-1	1,4-Dioxane	0.21	0.76	U	0.76	1.80	ug/m3
80-62-6	Methyl Methacrylate	0.090	0.37	U	0.37	2.05	ug/m3

SURROGATES

460-00-4	1-Bromo-4-Fluorobenzene	9.80		70 (65) - 130 (135)	98%	SPK: 10

INTERNAL STANDARDS

74-97-5	Bromochloromethane	201000	2.803
540-36-3	1,4-Difluorobenzene	538000	3.981
3114-55-4	Chlorobenzene-d5	488000	8.901

TENTATIVE IDENTIFIED COMPOUNDS

115-07-1	Propene	2.50	J	1.49	ppbv
64-17-5	Ethanol	130	J	1.73	ppbv
67-63-0	Isopropyl Alcohol	27.1	J	1.89	ppbv

Report of Analysis

Client:	Woodard & Curran	Date Collected:	04/01/25
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	04/03/25
Client Sample ID:	SSSG-B10-4-04012025	SDG No.:	Q1725
Lab Sample ID:	Q1725-02	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042235.D	1		04/07/25 14:51	VL040725

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
005989-27-5	D-Limonene	1.90		J		12.1	ppbv
013475-82-6	Heptane, 2,2,4,6,6-pentamethyl-	1.90		J		12.1	ppbv
031081-18-2	Nonane, 3-methyl-5-propyl-	9.20		J		12.2	ppbv
	unknown12.267	8.10		J		12.3	ppbv
062199-06-8	Heptane, 5-ethyl-2,2,3-trimethyl-	6.30		J		12.5	ppbv
062016-28-8	Octane, 2,2,6-trimethyl-	2.60		J		12.5	ppbv
000563-16-6	Hexane, 3,3-dimethyl-	2.80		J		12.7	ppbv
022609-10-5	6-Chloro-2-ethyl-4-phenylquinoline	87.6		J		13.4	ppbv

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\VL040725\
 Data File : VL042235.D
 Acq On : 07 Apr 2025 14:51
 Operator : SY/MD
 Sample : Q1725-02
 Misc : 400mL/MSVOA_L
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SSSG-B10-4-04012025

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 04/08/2025
 Supervised By :Mahesh Dadoda 04/09/2025

Quant Time: Apr 08 01:32:36 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2025

QLast Update : Fri Mar 28 02:00:52 2025

Response via : Initial Calibration

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

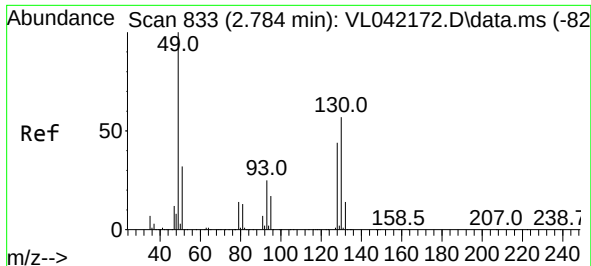
Internal Standards						
1) Bromochloromethane	2.803	49	200550	10.000	ppbv	0.02
33) 1,4-Difluorobenzene	3.981	114	538469	10.000	ppbv	0.03
55) Chlorobenzene-d5	8.901	117	487966	10.000	ppbv	0.03
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.393	95	392922	9.805	ppbv	0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.100%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.502	85	11812	0.399	ppbv	99
4) Chloromethane	1.538	50	1607	0.133	ppbv	97
9) Propene	1.492	41	34124m	2.461	ppbv	
10) Heptane	5.004	43	5459m	0.148	ppbv	
11) Trichlorofluoromethane	1.887	101	6560	0.228	ppbv	97
13) Ethanol	1.729	45	165486	126.257	ppbv	81
15) Acetone	1.842	43	878596	31.325	ppbv	97
17) tert-Butyl alcohol	2.052	59	17125m	0.490	ppbv	
18) 1,1-Dichloroethene	2.046	96	17208	1.554	ppbv	98
19) Isopropyl Alcohol	1.894	45	429215	27.122	ppbv #	85
20) Methylene Chloride	2.072	84	7004	0.670	ppbv #	81
26) Hexane	2.842	57	12578	0.447	ppbv #	1
29) Chloroform	2.865	83	5091112	123.718	ppbv #	64
32) 1,1,1-Trichloroethane	3.389	97	5002	0.106	ppbv	96
34) 2-Butanone	2.573	43	26940	0.690	ppbv	99
35) Carbon Tetrachloride	3.787	117	149549	3.555	ppbv	97
36) Benzene	3.677	78	12945m	0.242	ppbv	
38) Trichloroethene	4.577	130	20401	0.916	ppbv #	83
42) Bromodichloromethane	4.519	83	17527m	0.416	ppbv	
52) Tetrachloroethene	8.247	164	66227	3.128	ppbv	96
53) Toluene	6.962	91	88021	1.391	ppbv	99
57) Chlorobenzene	8.940	112	7168m	0.155	ppbv	
58) Ethyl Benzene	9.377	91	22956	0.265	ppbv #	87
59) m/p-Xylene	9.552	91	78245	1.131	ppbv	100
60) o-Xylene	9.982	91	26678	0.385	ppbv	97
61) Styrene	9.888	104	11796	0.344	ppbv	95
74) 1,2,4-Trimethylbenzene	11.552	105	33126	0.381	ppbv #	66

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

Manual Integrations

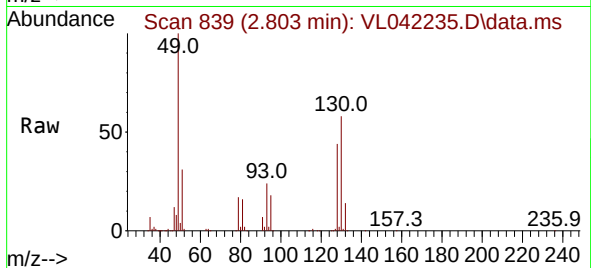
Quant Time: Apr 08 01:32:36 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Fri Mar 28 02:00:52 2025
Response via : Initial Calibration





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.803 min Scan# 833
Delta R.T. 0.019 min
Lab File: VL042235.D
Acq: 07 Apr 2025 14:51

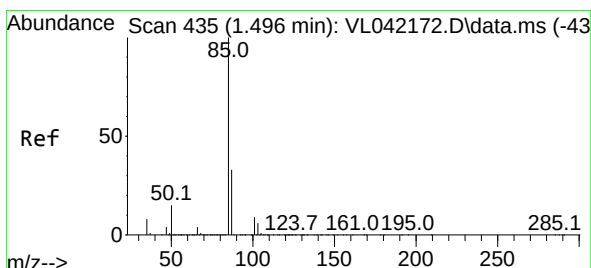
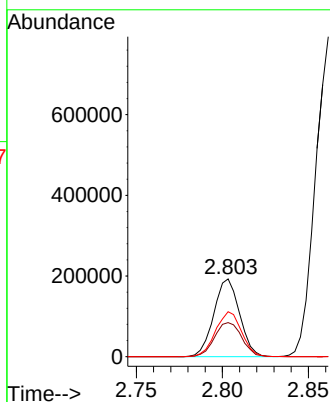
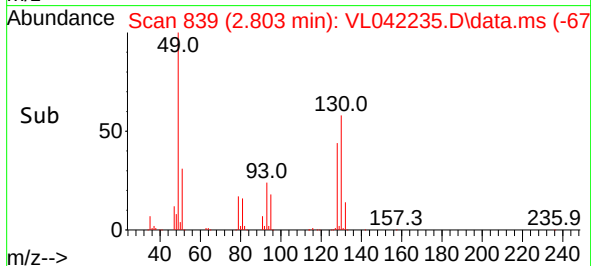
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B10-4-04012025



Tgt Ion: 49 Resp: 200550
Ion Ratio Lower Upper
49 100
128 46.5 22.9 68.5
130 58.5 28.8 86.4

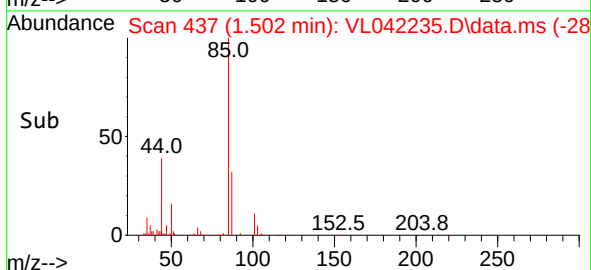
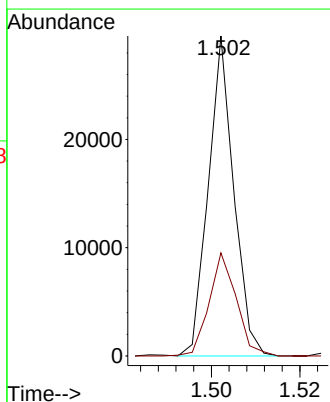
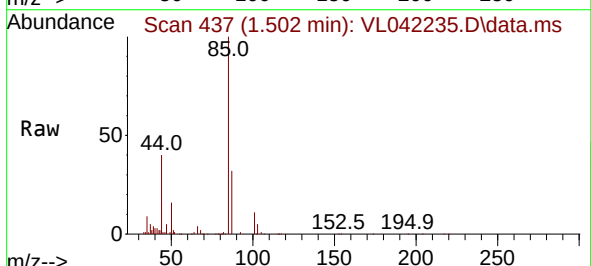
Manual Integrations
APPROVED

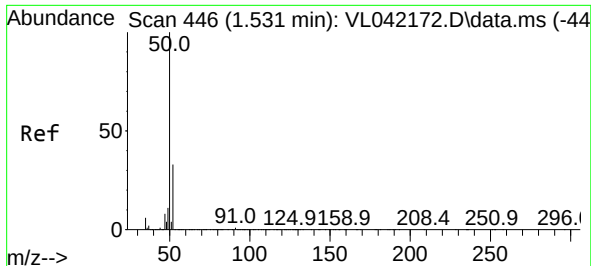
Reviewed By :Semsettin Yesilyurt 04/08/2025
Supervised By :Mahesh Dadoda 04/09/2025



#2
Dichlorodifluoromethane
Concen: 0.399 ppbv
RT: 1.502 min Scan# 437
Delta R.T. 0.006 min
Lab File: VL042235.D
Acq: 07 Apr 2025 14:51

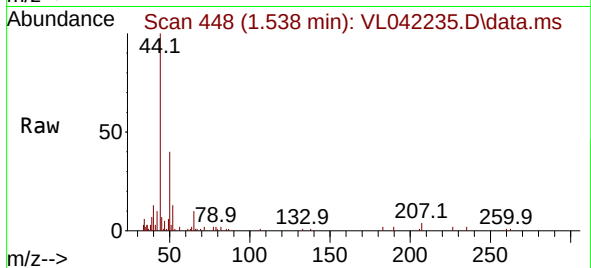
Tgt Ion: 85 Resp: 11812
Ion Ratio Lower Upper
85 100
87 32.2 26.1 39.1





#4
Chloromethane
Concen: 0.133 ppbv
RT: 1.538 min Scan# 446
Delta R.T. 0.006 min
Lab File: VL042235.D
Acq: 07 Apr 2025 14:51

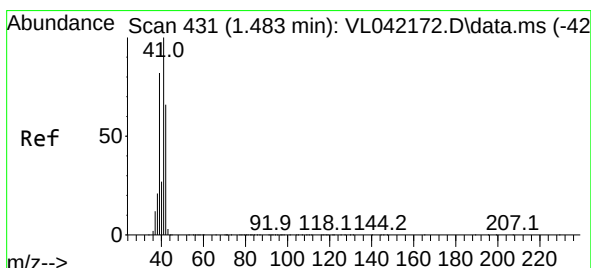
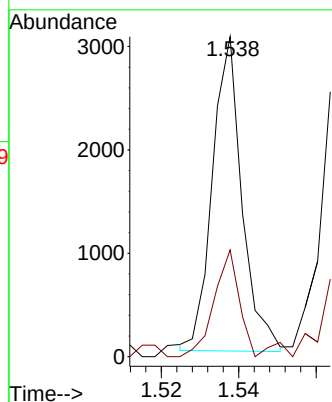
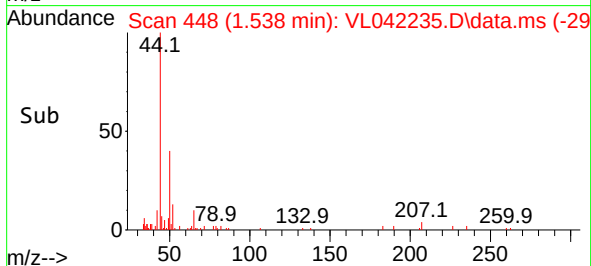
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B10-4-04012025



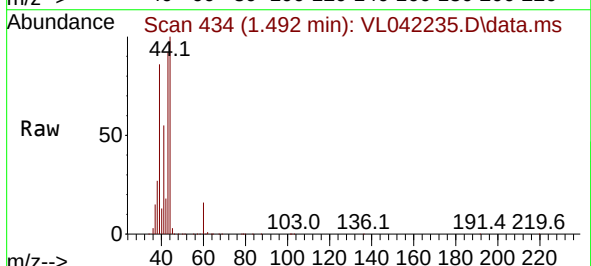
Tgt Ion: 50 Resp: 1607
Ion Ratio Lower Upper
50 100
52 34.4 26.1 39.1

Manual Integrations
APPROVED

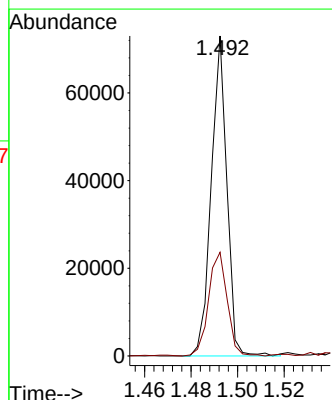
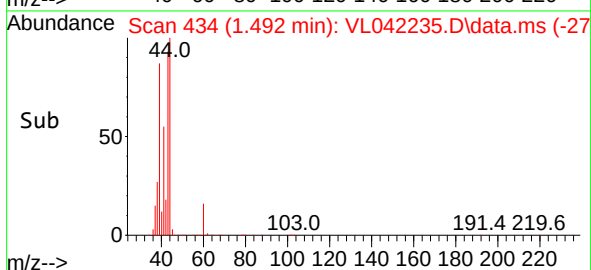
Reviewed By :Semsettin Yesilyurt 04/08/2025
Supervised By :Mahesh Dadoda 04/09/2025

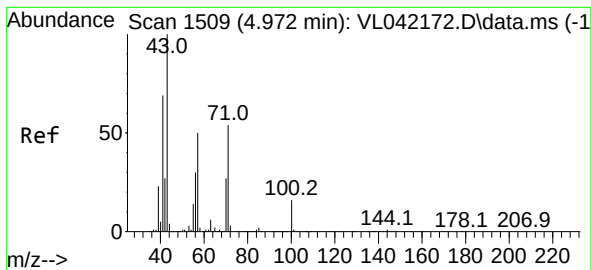


#9
Propene
Concen: 2.461 ppbv m
RT: 1.492 min Scan# 434
Delta R.T. 0.010 min
Lab File: VL042235.D
Acq: 07 Apr 2025 14:51



Tgt Ion: 41 Resp: 34124
Ion Ratio Lower Upper
41 100
42 73.3 55.4 83.2





#10

Heptane

Concen: 0.148 ppbv m

RT: 5.004 min Scan# 11

Delta R.T. 0.032 min

Lab File: VL042235.D

Acq: 07 Apr 2025 14:51

Instrument :

MSVOA_L

ClientSampleId :

SSSG-B10-4-04012025

Tgt Ion: 43 Resp: 545

Ion Ratio Lower Upper

43 100

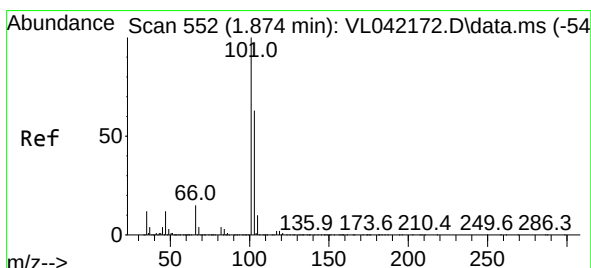
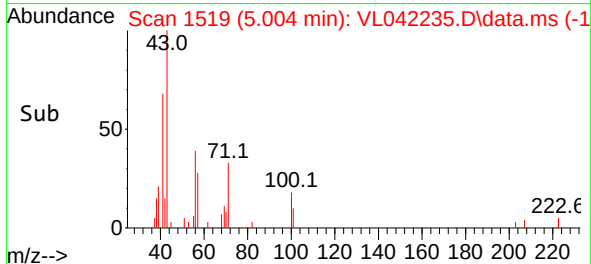
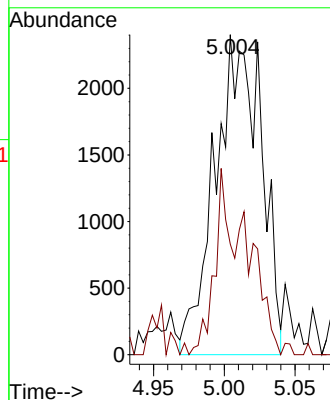
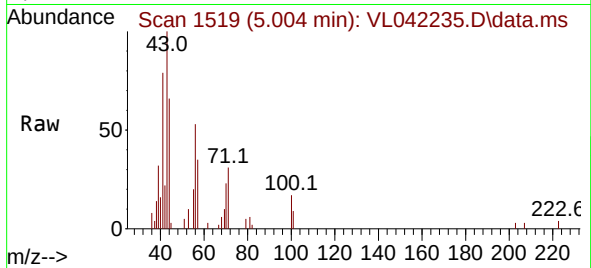
57 0.0 39.4 59.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/08/2025

Supervised By :Mahesh Dadoda 04/09/2025



#11

Trichlorofluoromethane

Concen: 0.228 ppbv

RT: 1.887 min Scan# 556

Delta R.T. 0.013 min

Lab File: VL042235.D

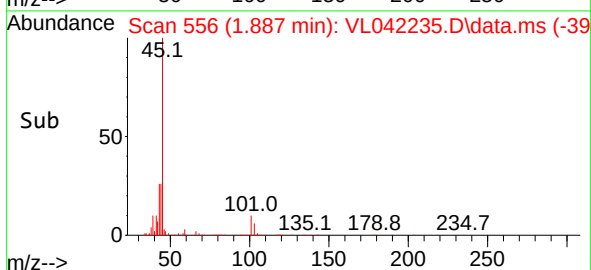
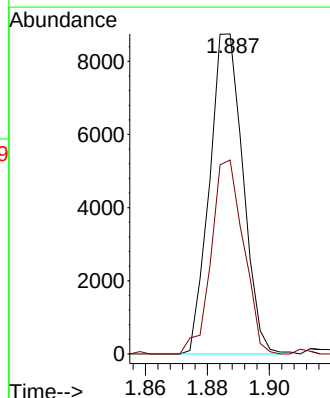
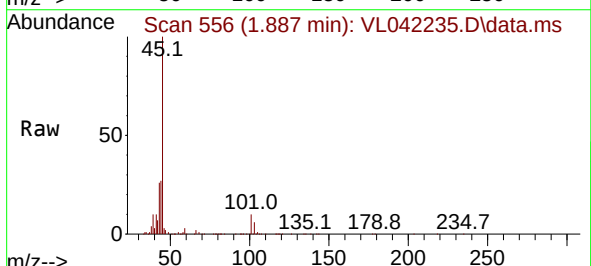
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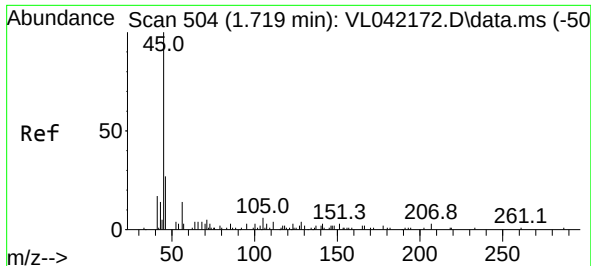
Tgt Ion:101 Resp: 6560

Ion Ratio Lower Upper

101 100

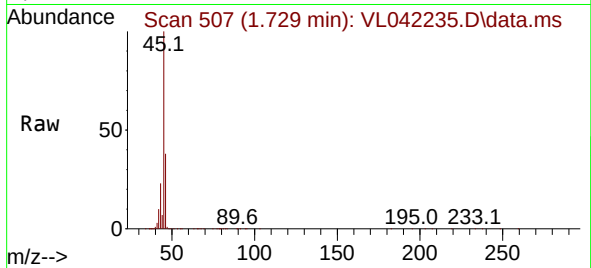
103 60.6 50.2 75.2





#13
 Ethanol
 Concen: 126.257 ppbv
 RT: 1.729 min Scan# 504
 Delta R.T. 0.010 min
 Lab File: VL042235.D
 Acq: 07 Apr 2025 14:51

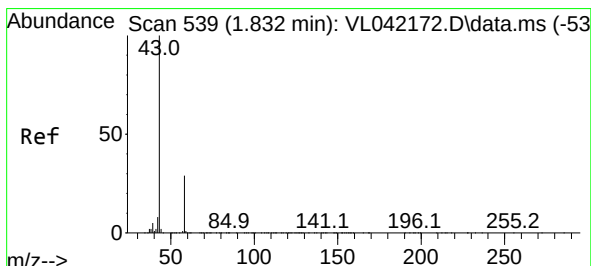
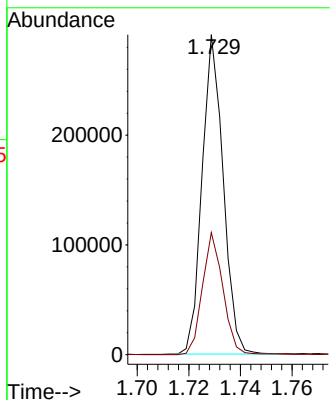
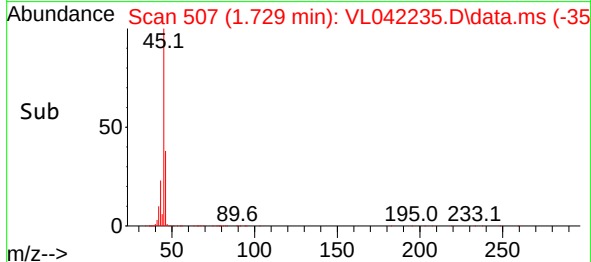
Instrument :
 MSVOA_L
 ClientSampleId :
 SSSG-B10-4-04012025



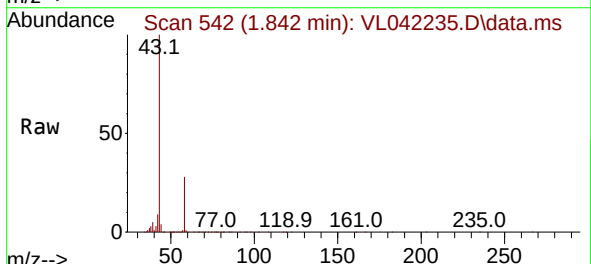
Tgt Ion: 45 Resp: 165480
 Ion Ratio Lower Upper
 45 100
 46 37.6 20.2 80.8

Manual Integrations
 APPROVED

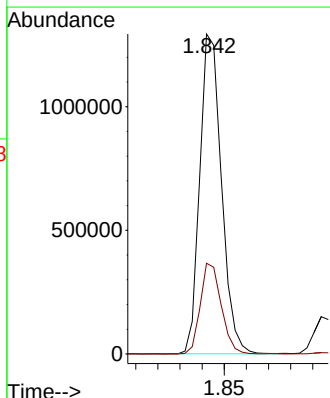
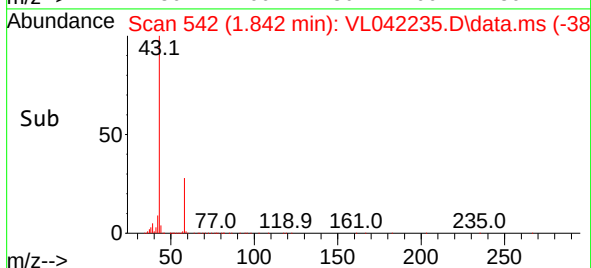
Reviewed By :Semsettin Yesilyurt 04/08/2025
 Supervised By :Mahesh Dadoda 04/09/2025

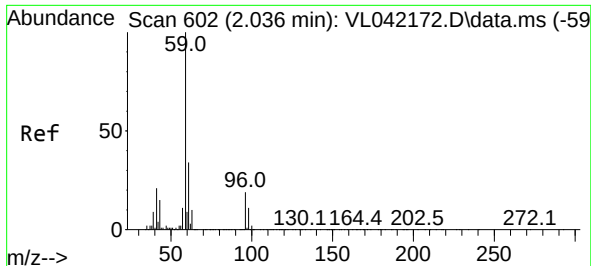


#15
 Acetone
 Concen: 31.325 ppbv
 RT: 1.842 min Scan# 542
 Delta R.T. 0.010 min
 Lab File: VL042235.D
 Acq: 07 Apr 2025 14:51



Tgt Ion: 43 Resp: 878596
 Ion Ratio Lower Upper
 43 100
 58 27.4 23.2 34.8





#17

tert-Butyl alcohol

Concen: 0.490 ppbv m

RT: 2.052 min Scan# 60

Delta R.T. 0.016 min

Lab File: VL042235.D

Acq: 07 Apr 2025 14:51

Instrument :

MSVOA_L

ClientSampleId :

SSSG-B10-4-04012025

Tgt Ion: 59 Resp: 1712

Ion Ratio Lower Upper

59 100

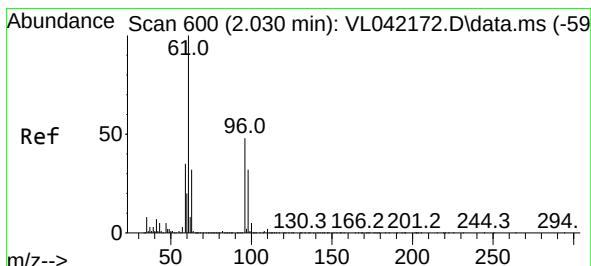
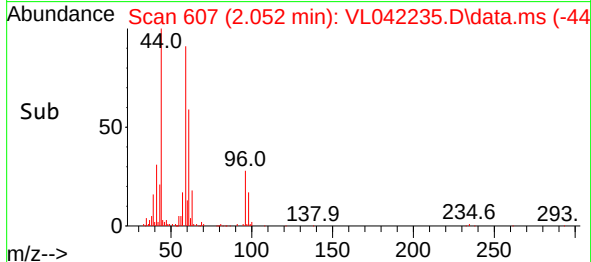
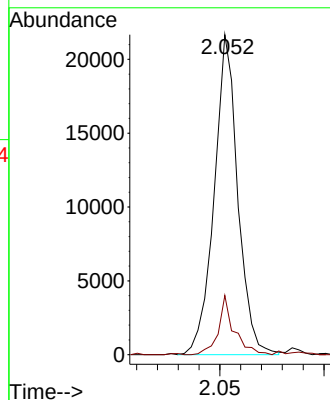
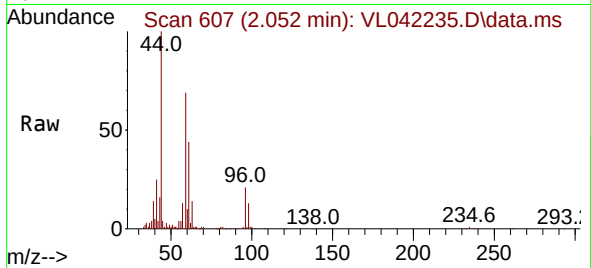
57 11.9 8.9 13.3

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/08/2025

Supervised By :Mahesh Dadoda 04/09/2025



#18

1,1-Dichloroethene

Concen: 1.554 ppbv

RT: 2.046 min Scan# 605

Delta R.T. 0.016 min

Lab File: VL042235.D

Acq: 07 Apr 2025 14:51

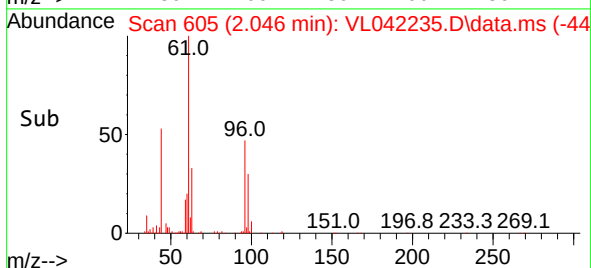
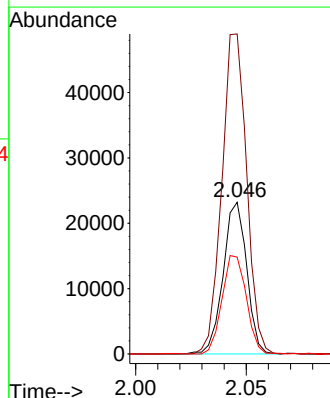
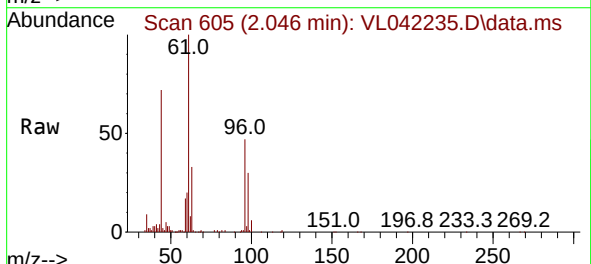
Tgt Ion: 96 Resp: 17208

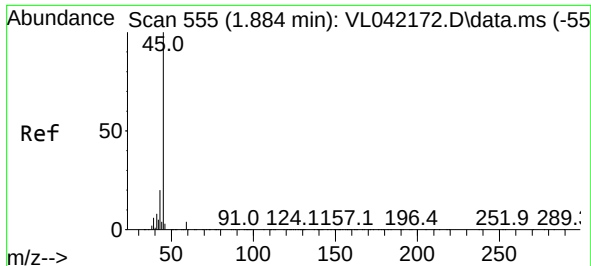
Ion Ratio Lower Upper

96 100

61 210.9 167.6 251.4

98 63.6 53.5 80.3





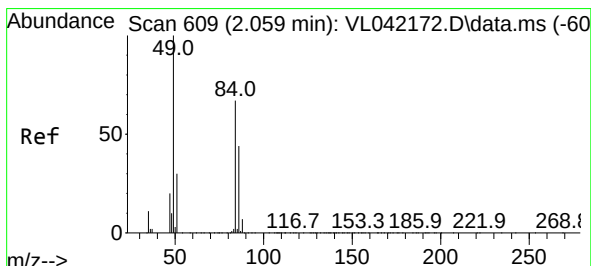
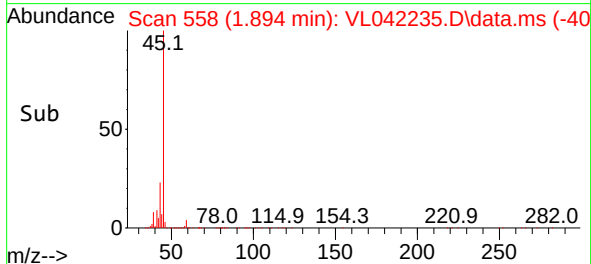
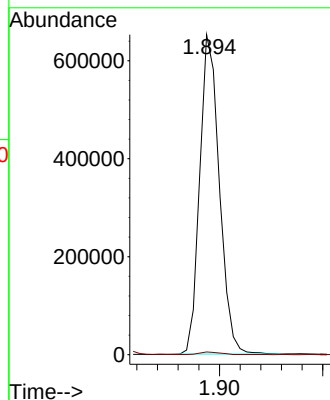
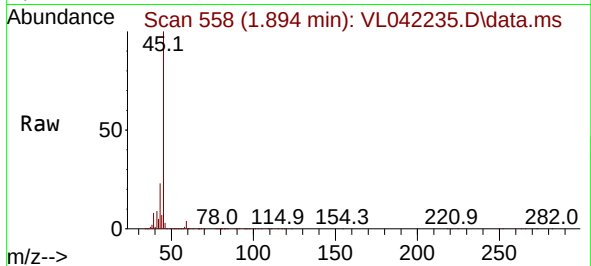
#19
Isopropyl Alcohol
Concen: 27.122 ppbv
RT: 1.894 min Scan# 510
Delta R.T. 0.010 min
Lab File: VL042235.D
Acq: 07 Apr 2025 14:51

Instrument :
MSVOA_L
ClientSampleId :
SSSG-B10-4-04012025

Tgt Ion: 45 Resp: 429215
Ion Ratio Lower Upper
45 100
58 56.0 36.9 55.3

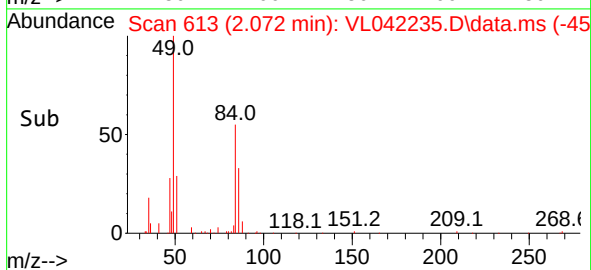
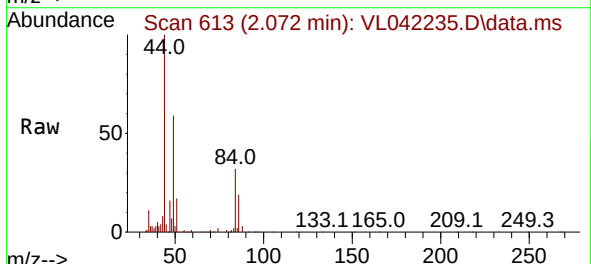
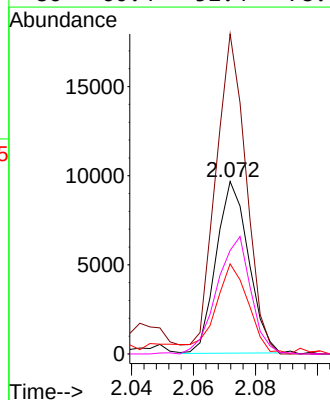
Manual Integrations
APPROVED

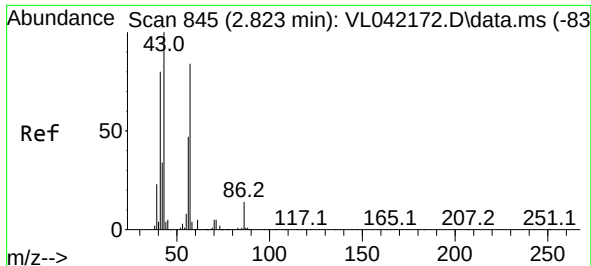
Reviewed By :Semsettin Yesilyurt 04/08/2025
Supervised By :Mahesh Dadoda 04/09/2025



#20
Methylene Chloride
Concen: 0.670 ppbv
RT: 2.072 min Scan# 613
Delta R.T. 0.013 min
Lab File: VL042235.D
Acq: 07 Apr 2025 14:51

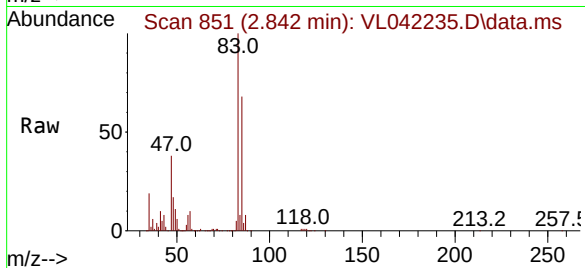
Tgt Ion: 84 Resp: 7004
Ion Ratio Lower Upper
84 100
49 186.7 120.2 180.4#
51 50.8 37.4 56.0
86 60.4 52.4 78.6





#26
Hexane
Concen: 0.447 ppbv
RT: 2.842 min Scan# 845
Delta R.T. 0.019 min
Lab File: VL042235.D
Acq: 07 Apr 2025 14:51

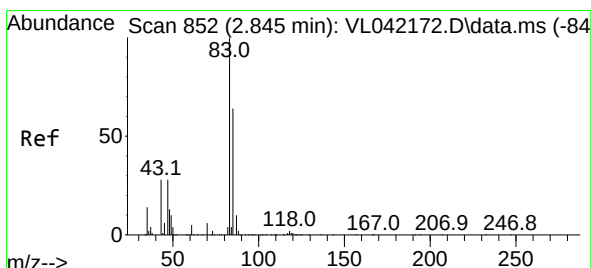
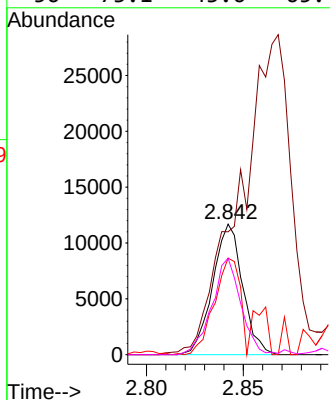
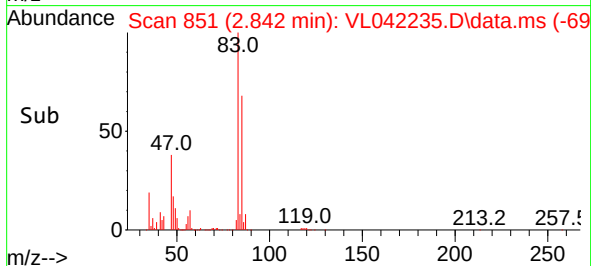
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B10-4-04012025



Tgt Ion: 57 Resp: 12578
Ion Ratio Lower Upper
57 100
41 455.4 76.6 114.8
43 86.6 207.8 311.8
56 73.1 43.6 65.4#

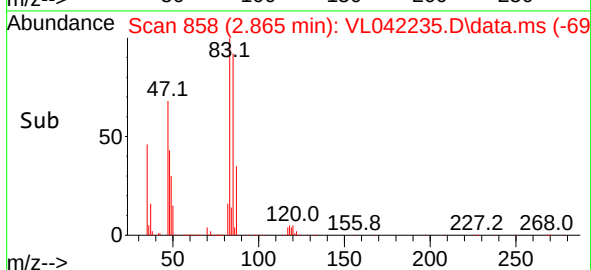
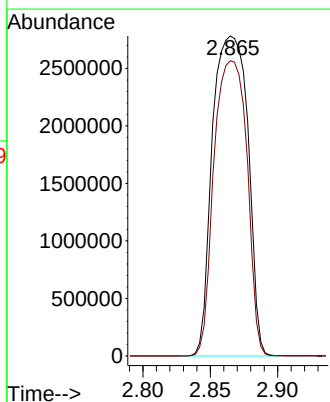
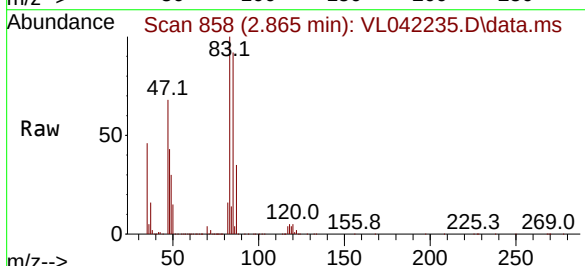
Manual Integrations
APPROVED

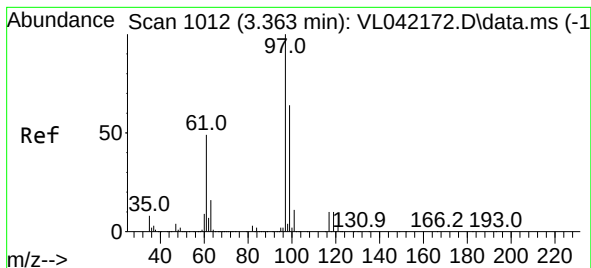
Reviewed By :Semsettin Yesilyurt 04/08/2025
Supervised By :Mahesh Dadoda 04/09/2025



#29
Chloroform
Concen: 123.718 ppbv
RT: 2.865 min Scan# 858
Delta R.T. 0.019 min
Lab File: VL042235.D
Acq: 07 Apr 2025 14:51

Tgt Ion: 83 Resp: 5091112
Ion Ratio Lower Upper
83 100
85 92.2 51.4 77.2#





#32

1,1,1-Trichloroethane

Concen: 0.106 ppbv

RT: 3.389 min Scan# 1012

Delta R.T. 0.026 min

Lab File: VL042235.D

Acq: 07 Apr 2025 14:51

Instrument :

MSVOA_L

ClientSampleId :

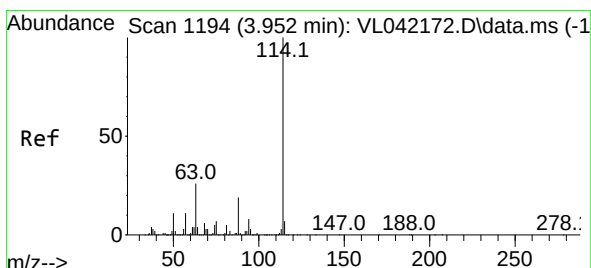
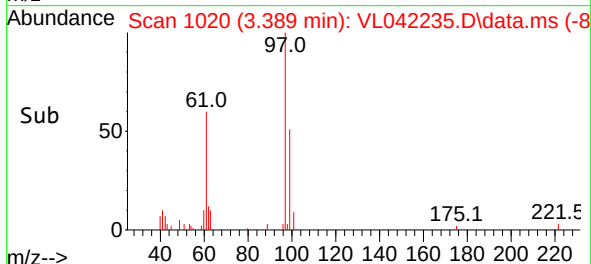
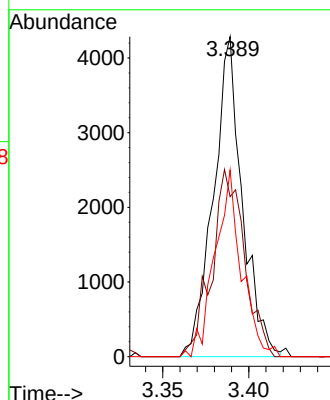
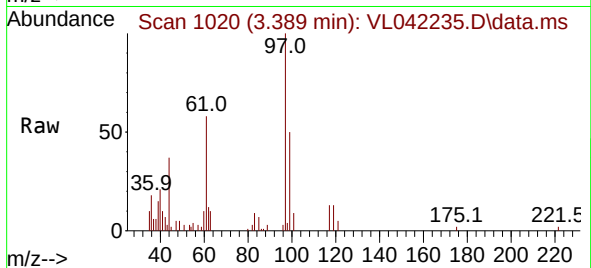
SSSG-B10-4-04012025

Tgt Ion: 97	Resp: 500
Ion Ratio	Lower Upper
97	100
99	65.8 51.5 77.3
61	53.9 38.7 58.1

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/08/2025
Supervised By :Mahesh Dadoda 04/09/2025



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

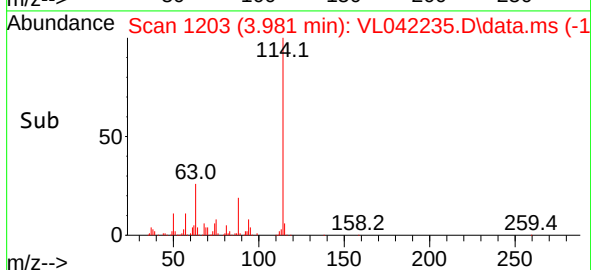
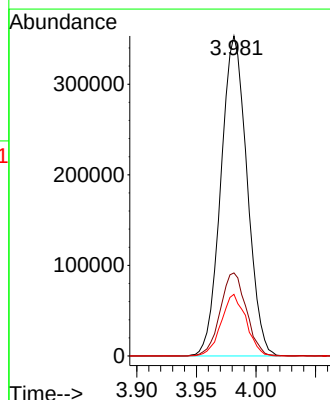
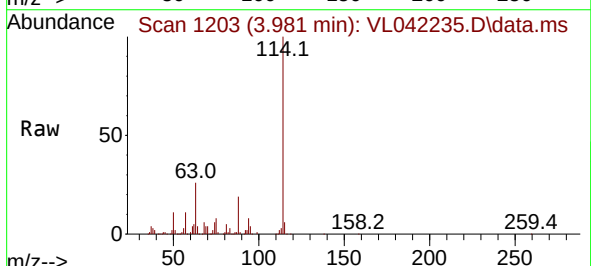
RT: 3.981 min Scan# 1203

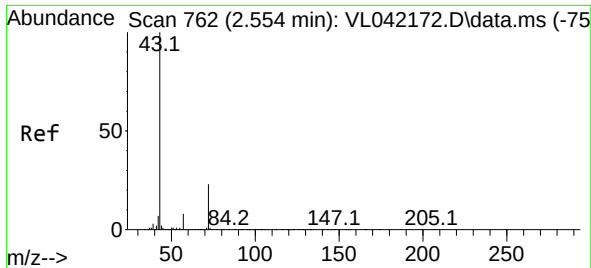
Delta R.T. 0.029 min

Lab File: VL042235.D

Acq: 07 Apr 2025 14:51

Tgt Ion: 114	Resp: 538469
Ion Ratio	Lower Upper
114	100
63	25.9 20.7 31.1
88	18.4 15.0 22.4





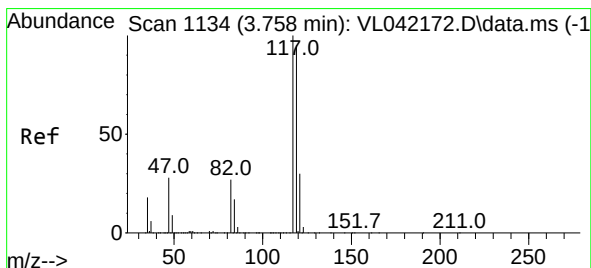
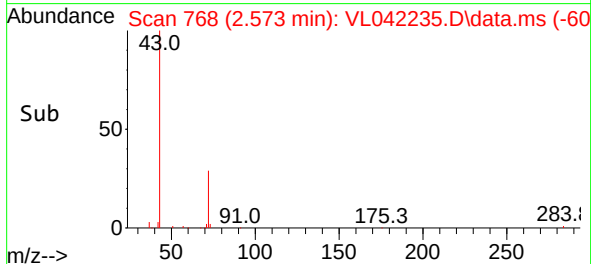
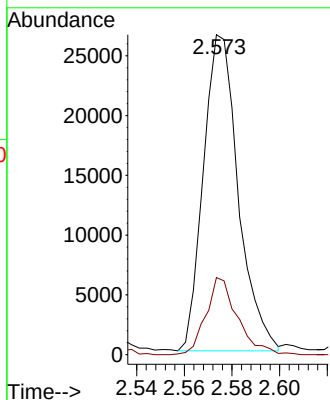
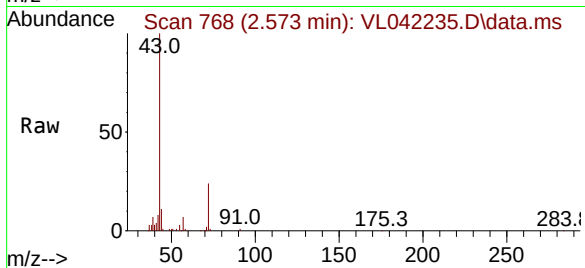
#34
2-Butanone
Concen: 0.690 ppbv
RT: 2.573 min Scan# 768
Delta R.T. 0.019 min
Lab File: VL042235.D
Acq: 07 Apr 2025 14:51

Instrument :
MSVOA_L
ClientSampleId :
SSSG-B10-4-04012025

Tgt Ion: 43 Resp: 26940
Ion Ratio Lower Upper
43 100
72 22.0 18.2 27.2

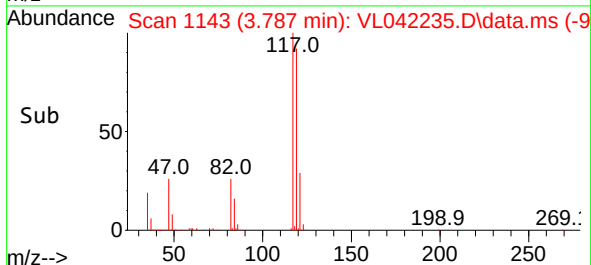
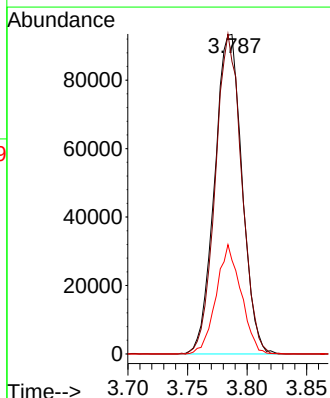
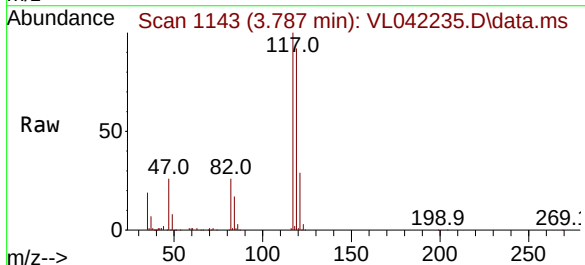
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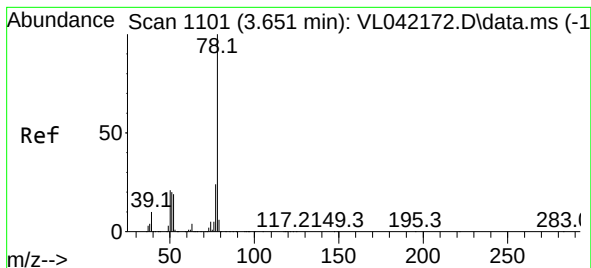
Reviewed By :Semsettin Yesilyurt 04/08/2025
Supervised By :Mahesh Dadoda 04/09/2025



#35
Carbon Tetrachloride
Concen: 3.555 ppbv
RT: 3.787 min Scan# 1143
Delta R.T. 0.029 min
Lab File: VL042235.D
Acq: 07 Apr 2025 14:51

Tgt Ion:117 Resp: 149549
Ion Ratio Lower Upper
117 100
119 91.6 76.2 114.2
121 29.3 24.2 36.4





#36

Benzene

Concen: 0.242 ppbv m

RT: 3.677 min Scan# 1109

Delta R.T. 0.026 min

Lab File: VL042235.D

Acq: 07 Apr 2025 14:51

Instrument :

MSVOA_L

ClientSampleId :

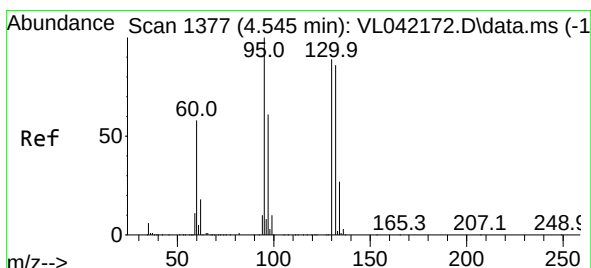
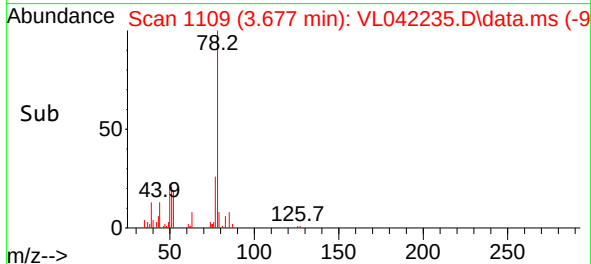
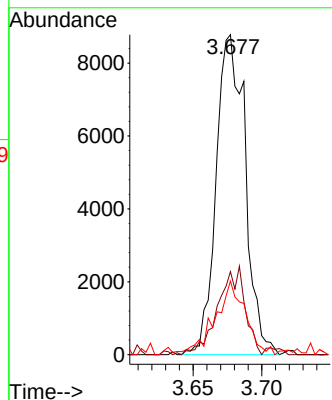
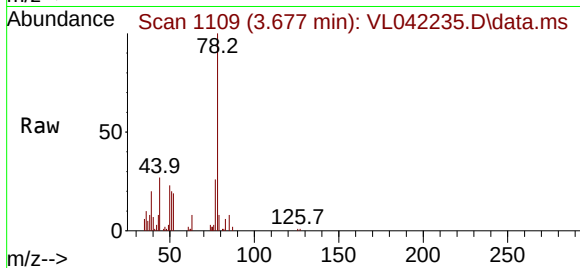
SSSG-B10-4-04012025

Tgt Ion: 78	Resp: 1294
Ion Ratio	Lower Upper
78 100	
77 26.0	19.1 28.7
50 23.0	16.6 24.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/08/2025
Supervised By :Mahesh Dadoda 04/09/2025



#38

Trichloroethene

Concen: 0.916 ppbv

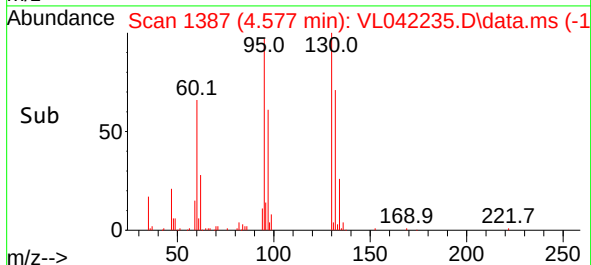
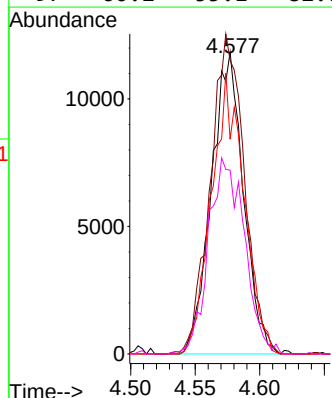
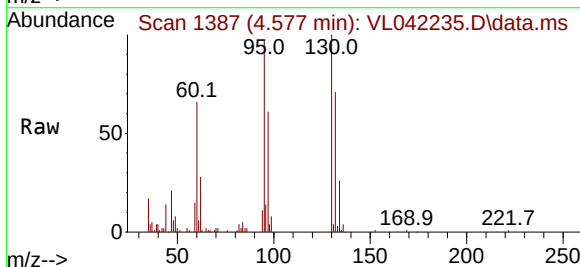
RT: 4.577 min Scan# 1387

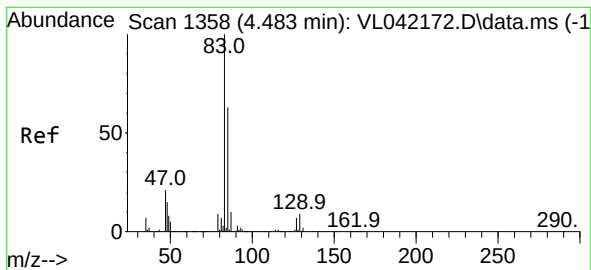
Delta R.T. 0.032 min

Lab File: VL042235.D

Acq: 07 Apr 2025 14:51

Tgt Ion:130	Resp: 20401
Ion Ratio	Lower Upper
130 100	
95 97.2	89.8 134.8
132 71.1	77.4 116.2#
97 60.2	55.1 82.7





#42

Bromodichloromethane

Concen: 0.416 ppbv m

RT: 4.519 min Scan# 1369

Delta R.T. 0.035 min

Lab File: VL042235.D

Acq: 07 Apr 2025 14:51

Instrument :

MSVOA_L

ClientSampleId :

SSSG-B10-4-04012025

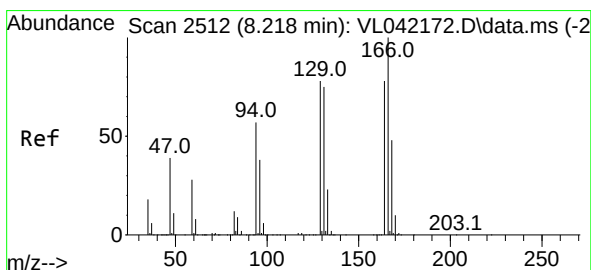
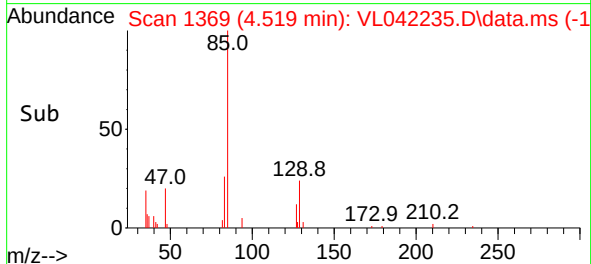
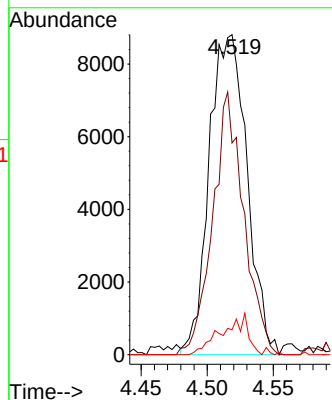
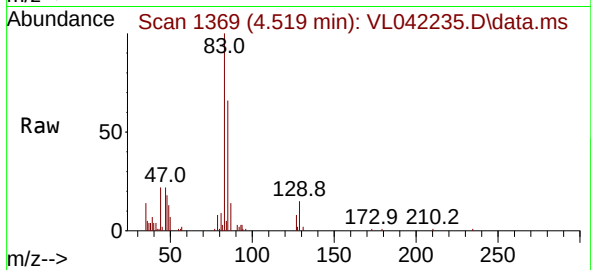
Tgt Ion: 83 Resp: 1752

Ion	Ratio	Lower	Upper
83	100		
85	66.2	50.5	75.7
127	7.8	5.9	8.9

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/08/2025
Supervised By :Mahesh Dadoda 04/09/2025



#52

Tetrachloroethene

Concen: 3.128 ppbv

RT: 8.247 min Scan# 2521

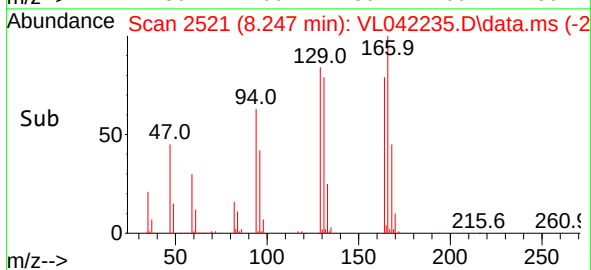
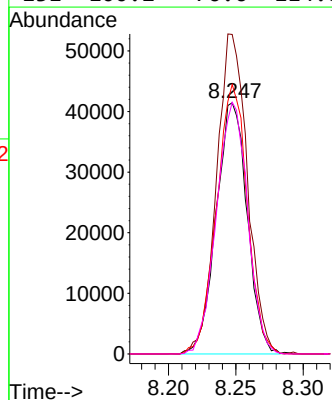
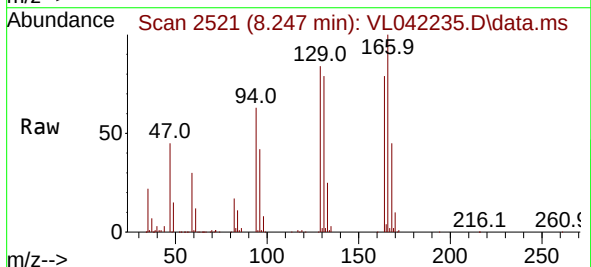
Delta R.T. 0.029 min

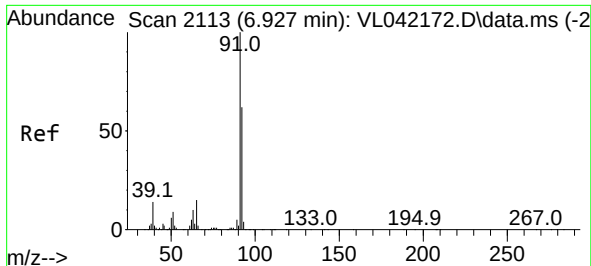
Lab File: VL042235.D

Acq: 07 Apr 2025 14:51

Tgt Ion:164 Resp: 66227

Ion	Ratio	Lower	Upper
164	100		
166	127.2	102.5	153.7
129	107.3	79.8	119.8
131	100.2	76.6	114.8





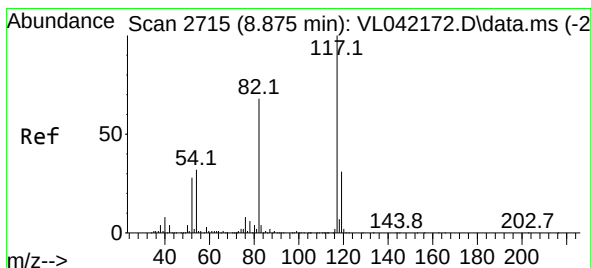
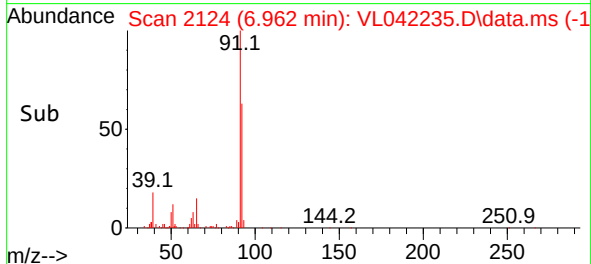
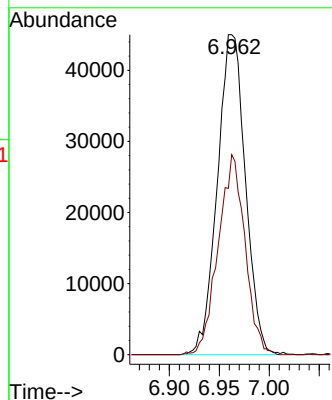
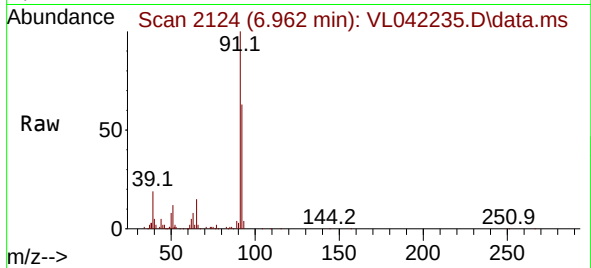
#53
Toluene
Concen: 1.391 ppbv
RT: 6.962 min Scan# 2113
Delta R.T. 0.035 min
Lab File: VL042235.D
Acq: 07 Apr 2025 14:51

Instrument :
MSVOA_L
ClientSampleId :
SSSG-B10-4-04012025

Tgt Ion: 91 Resp: 8802
Ion Ratio Lower Upper
91 100
92 59.6 48.4 72.6

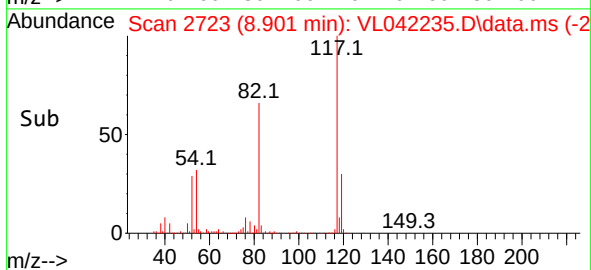
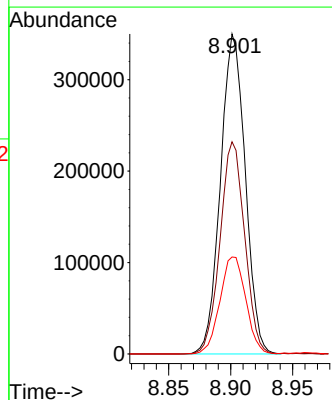
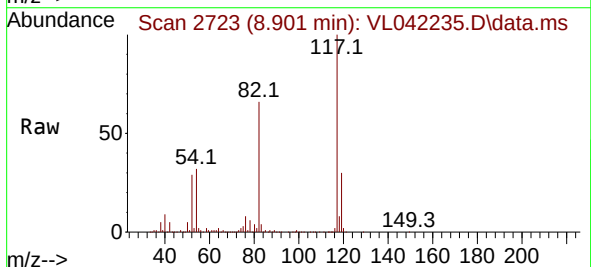
Manual Integrations
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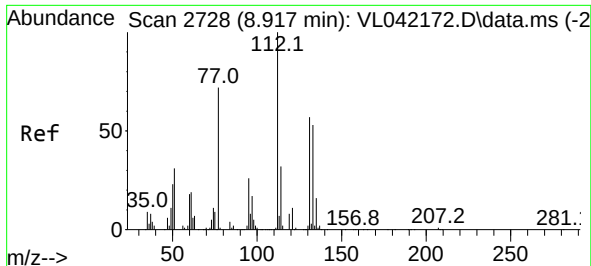
Reviewed By :Semsettin Yesilyurt 04/08/2025
Supervised By :Mahesh Dadoda 04/09/2025



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.901 min Scan# 2723
Delta R.T. 0.026 min
Lab File: VL042235.D
Acq: 07 Apr 2025 14:51

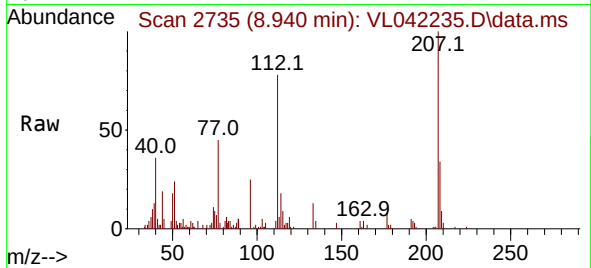
Tgt Ion:117 Resp: 487966
Ion Ratio Lower Upper
117 100
82 65.9 55.8 83.6
119 31.7 25.5 38.3





#57
Chlorobenzene
Concen: 0.155 ppbv m
RT: 8.940 min Scan# 2168
Delta R.T. 0.023 min
Lab File: VL042235.D
Acq: 07 Apr 2025 14:51

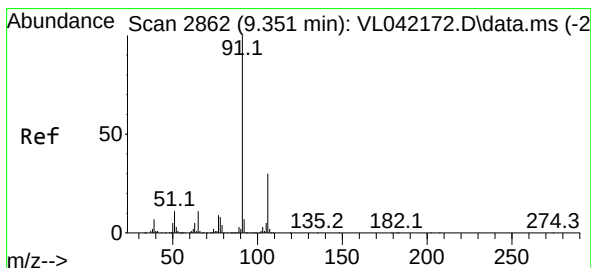
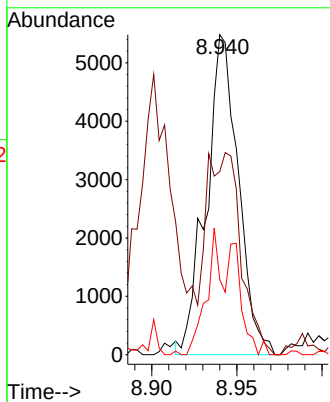
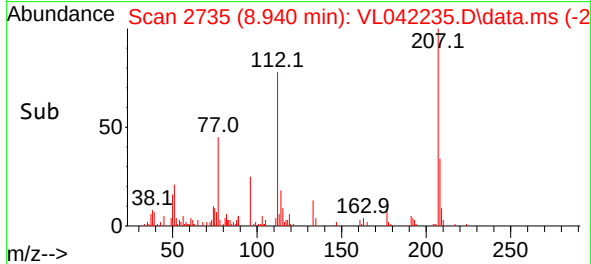
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B10-4-04012025



Tgt Ion: 112 Resp: 7168
Ion Ratio Lower Upper
112 100
77 57.3 58.2 87.2
114 23.4 29.1 35.5

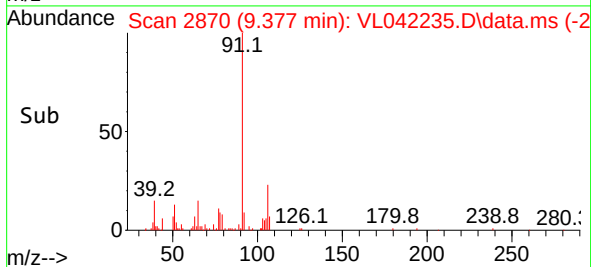
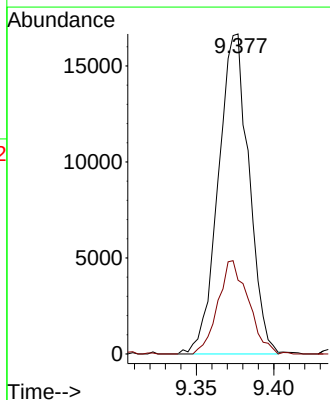
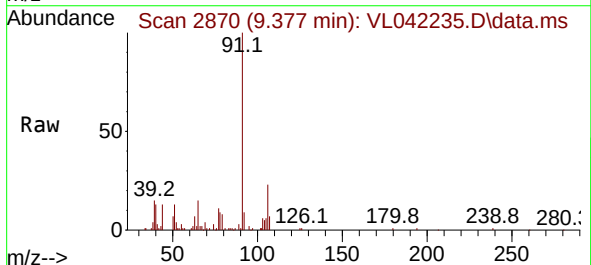
Manual Integrations
APPROVED

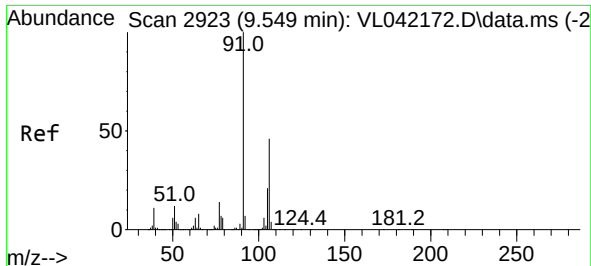
Reviewed By :Semsettin Yesilyurt 04/08/2025
Supervised By :Mahesh Dadoda 04/09/2025



#58
Ethyl Benzene
Concen: 0.265 ppbv
RT: 9.377 min Scan# 2870
Delta R.T. 0.026 min
Lab File: VL042235.D
Acq: 07 Apr 2025 14:51

Tgt Ion: 91 Resp: 22956
Ion Ratio Lower Upper
91 100
106 23.1 24.2 36.2





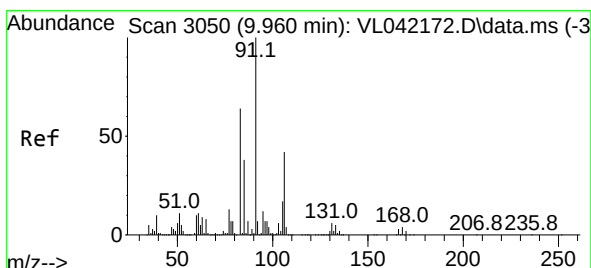
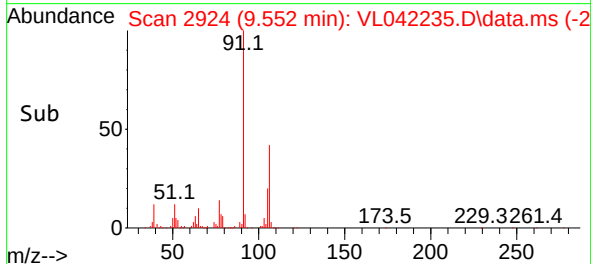
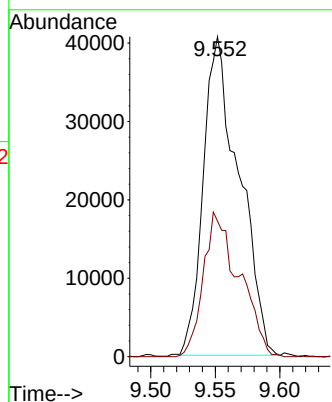
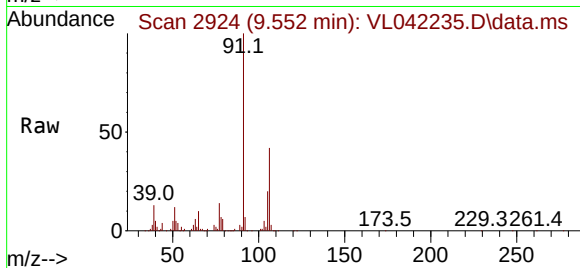
#59
m/p-Xylene
Concen: 1.131 ppbv
RT: 9.552 min Scan# 2924
Delta R.T. 0.003 min
Lab File: VL042235.D
Acq: 07 Apr 2025 14:51

Instrument :
MSVOA_L
ClientSampleId :
SSSG-B10-4-04012025

Tgt Ion: 91 Resp: 7824
Ion Ratio Lower Upper
91 100
106 45.6 36.4 54.6

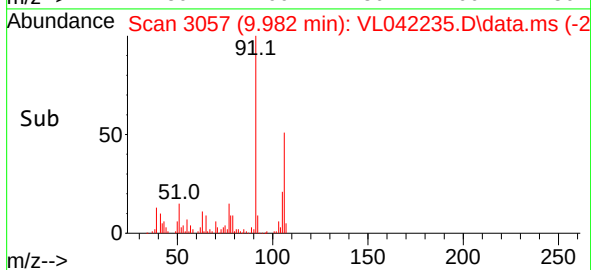
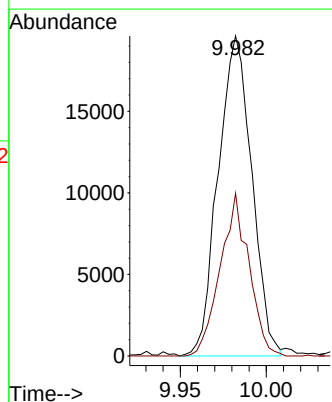
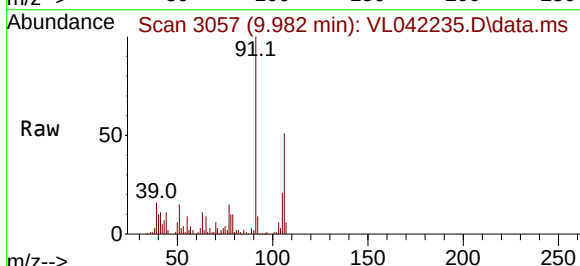
Manual Integrations
APPROVED

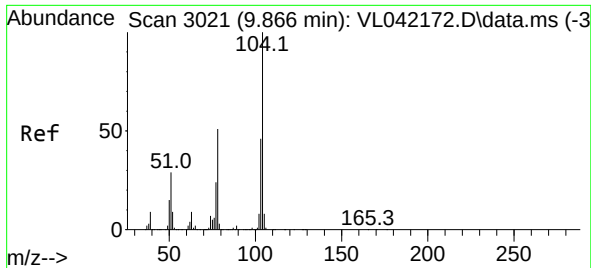
Reviewed By :Semsettin Yesilyurt 04/08/2025
Supervised By :Mahesh Dadoda 04/09/2025



#60
o-Xylene
Concen: 0.385 ppbv
RT: 9.982 min Scan# 3057
Delta R.T. 0.023 min
Lab File: VL042235.D
Acq: 07 Apr 2025 14:51

Tgt Ion: 91 Resp: 26678
Ion Ratio Lower Upper
91 100
106 43.4 20.8 62.5





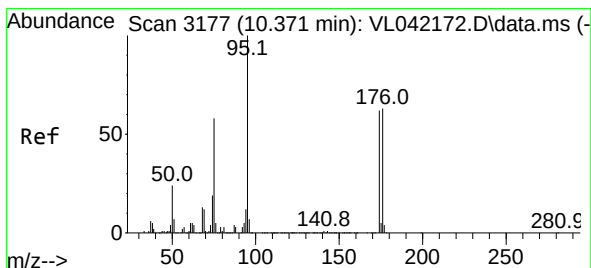
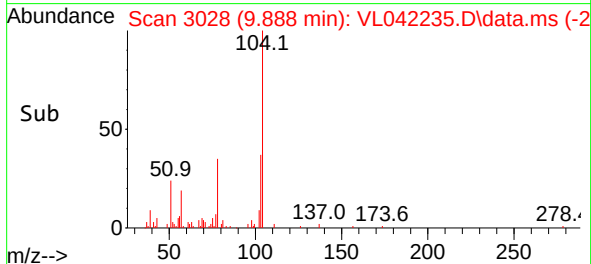
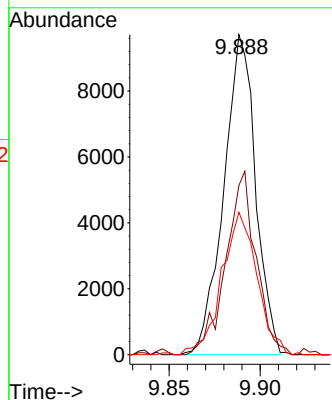
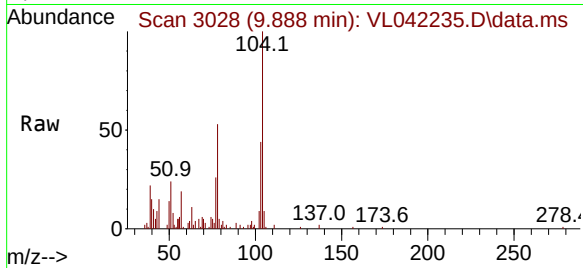
#61
Styrene
Concen: 0.344 ppbv
RT: 9.888 min Scan# 3021
Delta R.T. 0.023 min
Lab File: VL042235.D
Acq: 07 Apr 2025 14:51

Instrument :
MSVOA_L
ClientSampleId :
SSSG-B10-4-04012025

Tgt Ion:104 Resp: 11790
Ion Ratio Lower Upper
104 100
78 55.6 41.8 62.6
103 49.4 37.0 55.4

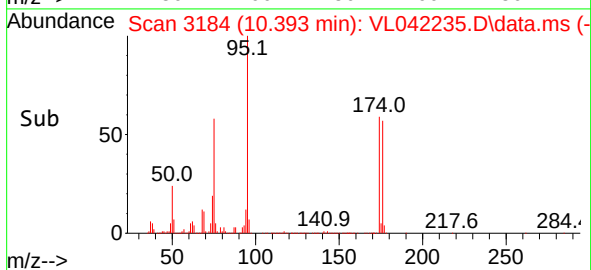
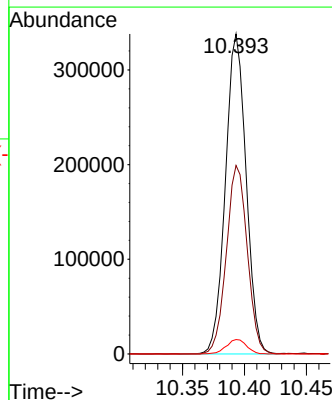
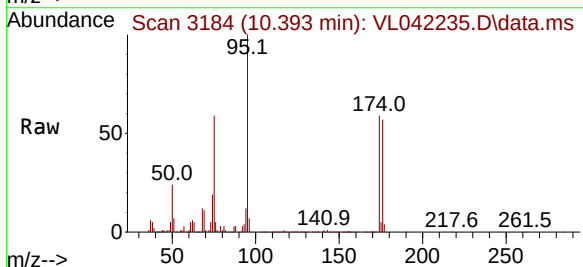
Manual Integrations
APPROVED

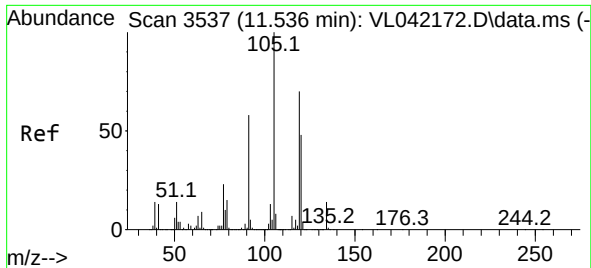
Reviewed By :Semsettin Yesilyurt 04/08/2025
Supervised By :Mahesh Dadoda 04/09/2025



#68
1-Bromo-4-Fluorobenzene
Concen: 9.805 ppbv
RT: 10.393 min Scan# 3184
Delta R.T. 0.023 min
Lab File: VL042235.D
Acq: 07 Apr 2025 14:51

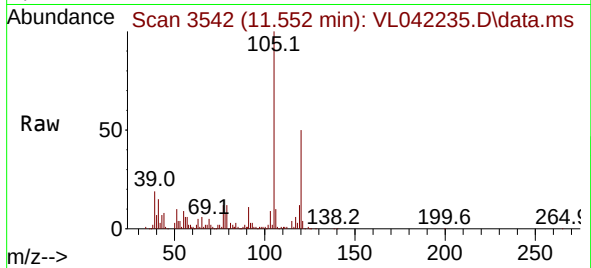
Tgt Ion: 95 Resp: 392922
Ion Ratio Lower Upper
95 100
174 59.8 50.6 76.0
175 4.5 3.8 5.6





#74
 1,2,4-Trimethylbenzene
 Concen: 0.381 ppbv
 RT: 11.552 min Scan# 3542
 Delta R.T. 0.016 min
 Lab File: VL042235.D
 Acq: 07 Apr 2025 14:51

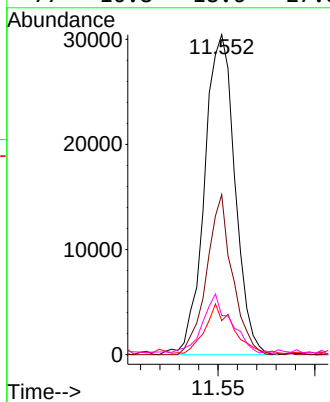
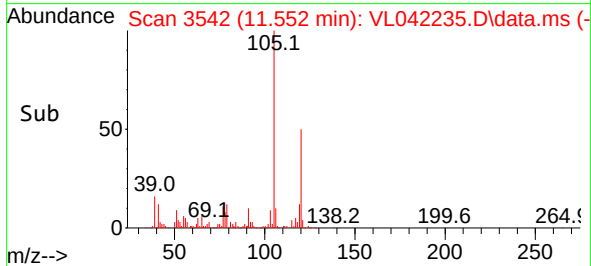
Instrument : MSVOA_L
 ClientSampleId : SSSG-B10-4-04012025



Tgt Ion:	105	Resp:	33120
Ion Ratio	Lower	Upper	
105	100		
120	50.0	38.6	58.0
91	10.1	46.2	69.2
77	10.8	18.6	27.8

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 04/08/2025
 Supervised By :Mahesh Dadoda 04/09/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040725\
 Data File : VL042235.D
 Acq On : 07 Apr 2025 14:51
 Operator : SY/MD
 Sample : Q1725-02
 Misc : 400mL/MSVOA_L
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SSSG-B10-4-04012025

Integration Parameters: RTEINT.P

Integrator: RTE

Smoothing : ON

Filtering: 5

Sampling : 3

Min Area: 3 % of largest Peak

Start Thrs: 0.001

Max Peaks: 100

Stop Thrs : 0

Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >

Peak separation: 0

Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M

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

Signal : TIC: VL042235.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.428	411	414	415	rBV	3935983	1987717	9.15%	3.373%
2	1.444	418	419	423	rVB	4140634	1905037	8.77%	3.233%
3	1.492	430	434	437	rBV	537892	235265	1.08%	0.399%
4	1.564	452	456	461	rBV	587269	304526	1.40%	0.517%
5	1.729	503	507	513	rBV	521308	297618	1.37%	0.505%
6	1.842	538	542	550	rBV	2025570	1454700	6.70%	2.469%
7	1.894	550	558	569	rBV	1075525	743783	3.43%	1.262%
8	2.803	830	839	846	rBV	734694	774759	3.57%	1.315%
9	2.865	846	858	877	rVB	14361607	21715038	100.00%	36.850%
10	3.784	1130	1142	1158	rVB2	343935	552327	2.54%	0.937%
11	3.981	1190	1203	1216	rBV	946066	1449992	6.68%	2.461%
12	6.962	2109	2124	2141	rVB	125168	244956	1.13%	0.416%
13	8.247	2507	2521	2531	rBV3	383912	639841	2.95%	1.086%
14	8.901	2708	2723	2733	rBV	1231896	1781025	8.20%	3.022%
15	10.393	3167	3184	3194	rBV	1564993	1899839	8.75%	3.224%
16	11.549	3533	3541	3556	rVB5	118576	218696	1.01%	0.371%
17	11.788	3603	3615	3624	rVB	1059928	1286541	5.92%	2.183%
18	12.057	3692	3698	3705	rBV2	330952	338553	1.56%	0.575%
19	12.099	3705	3711	3717	rVV	304086	328846	1.51%	0.558%
20	12.241	3744	3755	3759	rBV	1461255	1635719	7.53%	2.776%
21	12.267	3759	3763	3774	rVB	1326573	1436337	6.61%	2.437%
22	12.452	3807	3820	3826	rVV	841767	1128034	5.19%	1.914%
23	12.526	3835	3843	3849	rBV	428745	458923	2.11%	0.779%
24	12.665	3876	3886	3890	rBV3	396276	504569	2.32%	0.856%
25	13.400	4103	4113	4124	rBV2	11727244	15606125	71.87%	26.483%

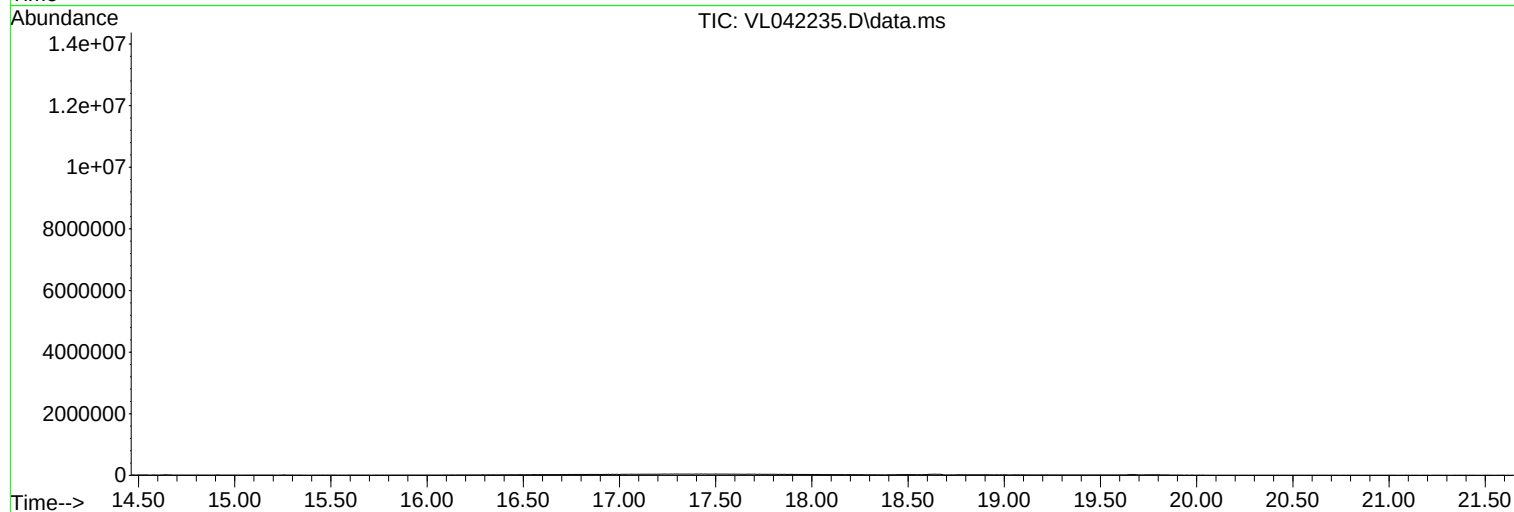
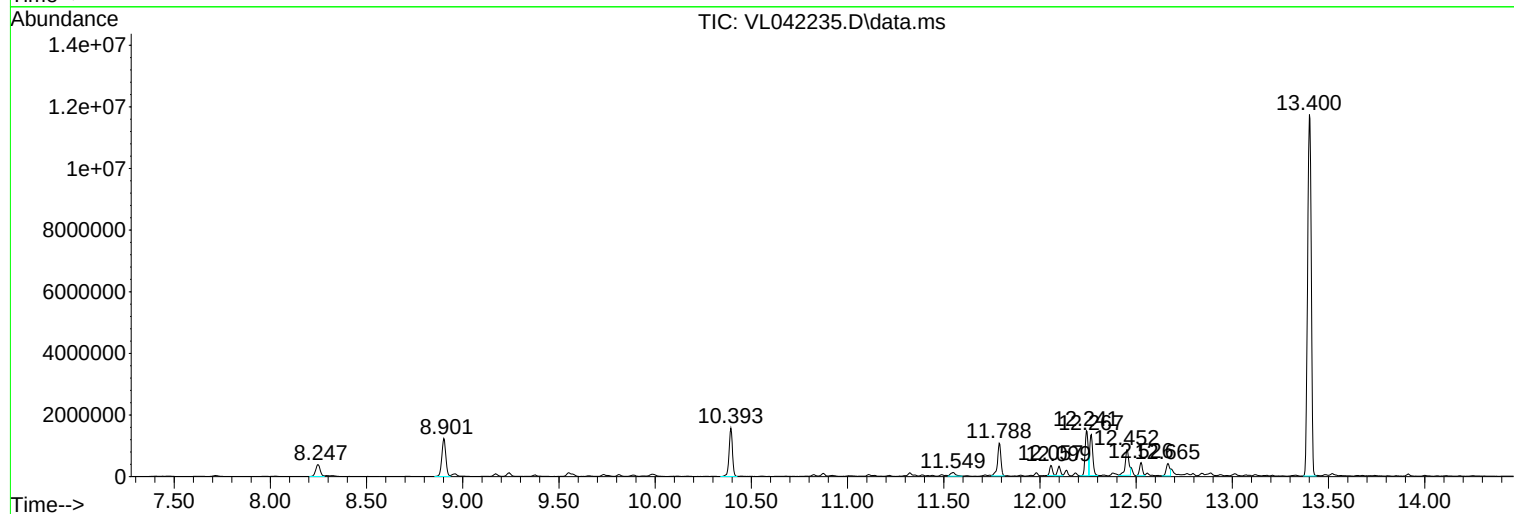
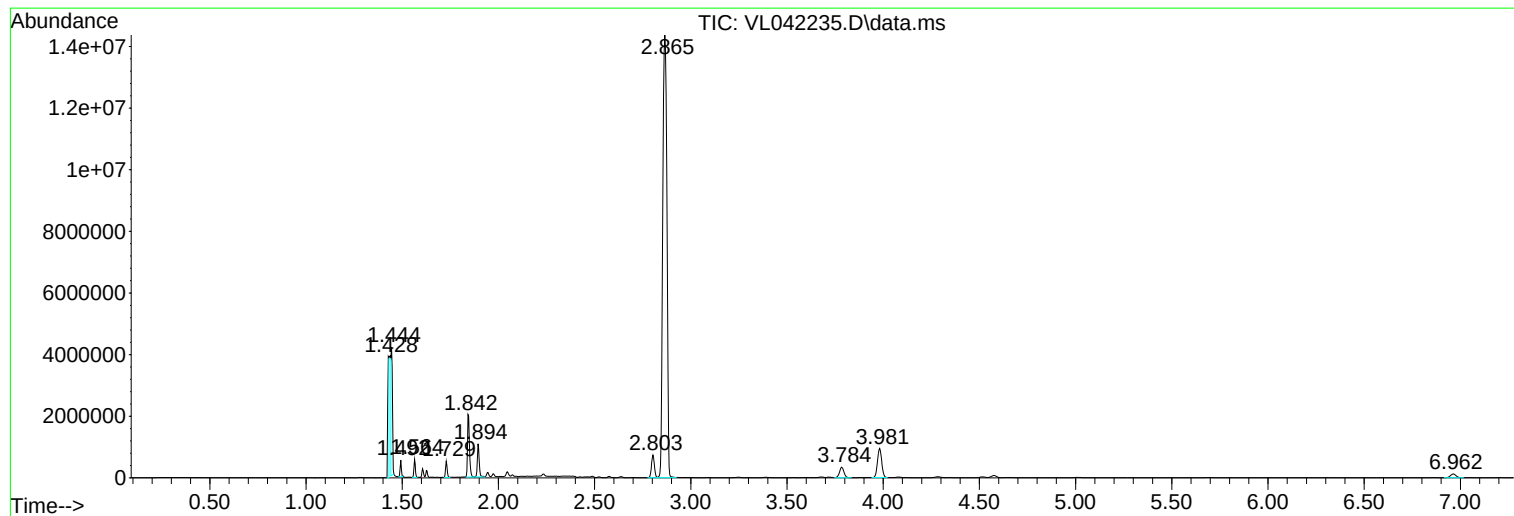
Sum of corrected areas: 58928766

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040725\
Data File : VL042235.D
Acq On : 07 Apr 2025 14:51
Operator : SY/MD
Sample : Q1725-02
Misc : 400mL/MSVOA_L
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
SSSG-B10-4-04012025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040725\
Data File : VL042235.D
Acq On : 07 Apr 2025 14:51
Operator : SY/MD
Sample : Q1725-02
Misc : 400mL/MSVOA_L
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
SSSG-B10-4-04012025

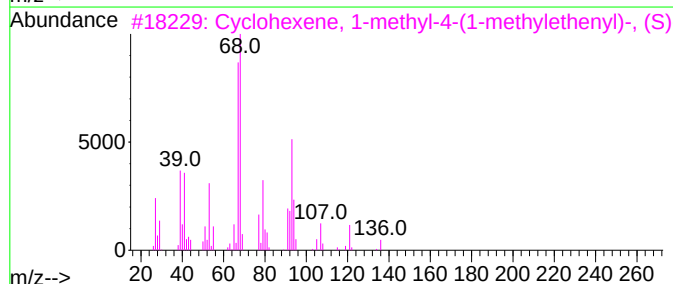
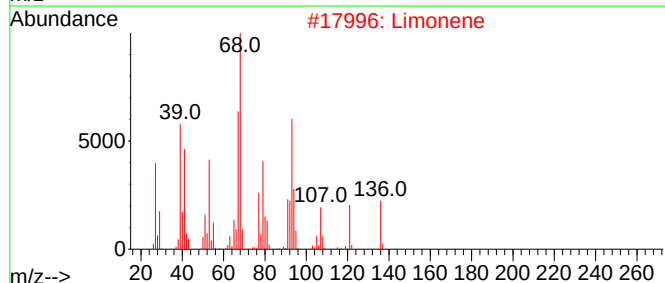
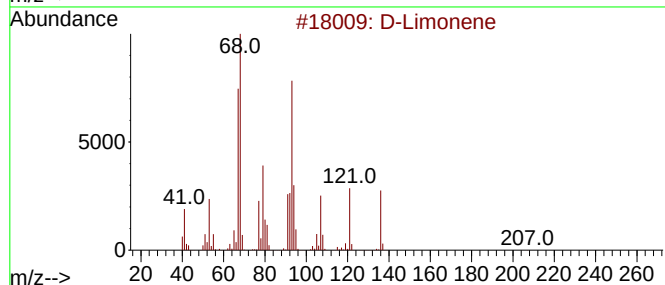
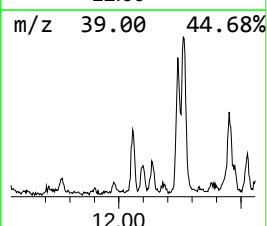
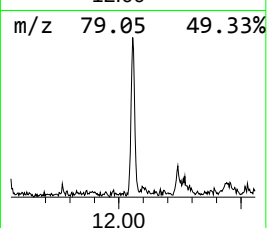
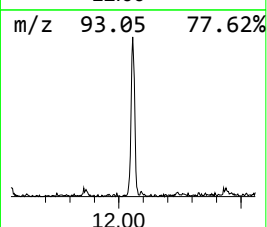
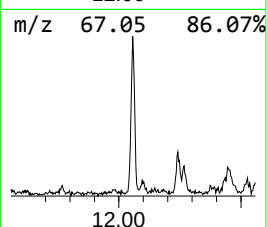
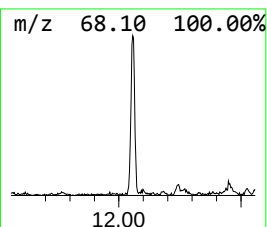
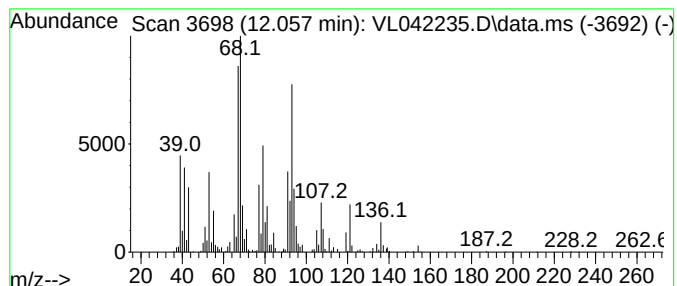
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

Peak Number 3 D-Limonene Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.057	1.90 ppbv	338553	Chlorobenzene-d5	8.901

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			D-Limonene	136	C10H16	005989-27-5	96
2			Limonene	136	C10H16	000138-86-3	94
3			Cyclohexene, 1-methyl-4-(1-methy...	136	C10H16	005989-54-8	94
4			Limonene	136	C10H16	000138-86-3	93
5			D-Limonene	136	C10H16	005989-27-5	81



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040725\
Data File : VL042235.D
Acq On : 07 Apr 2025 14:51
Operator : SY/MD
Sample : Q1725-02
Misc : 400mL/MSVOA_L
ALS Vial : 7 Sample Multiplier: 1

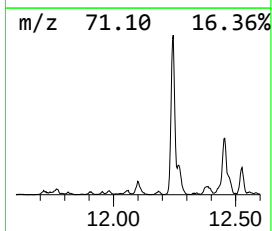
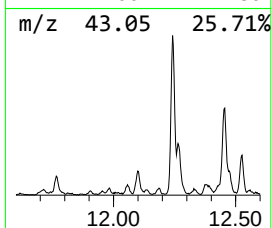
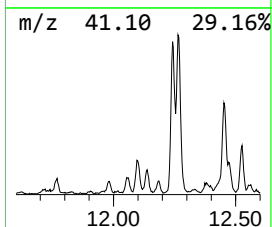
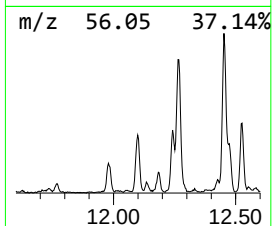
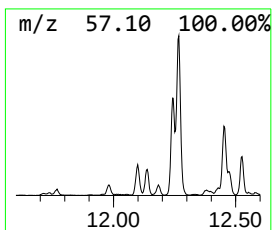
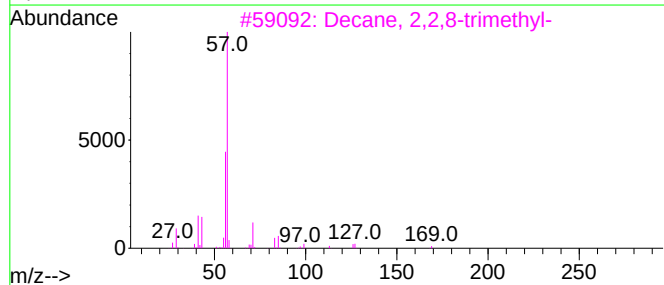
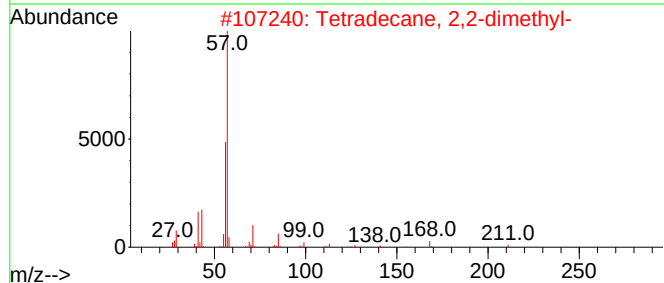
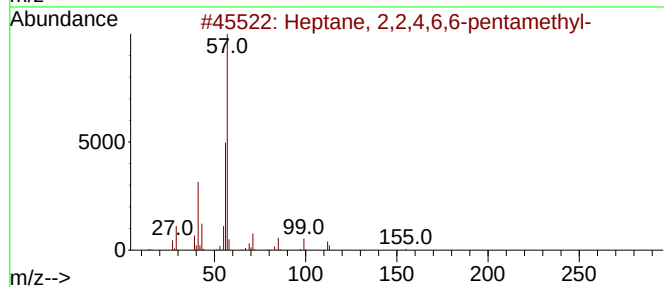
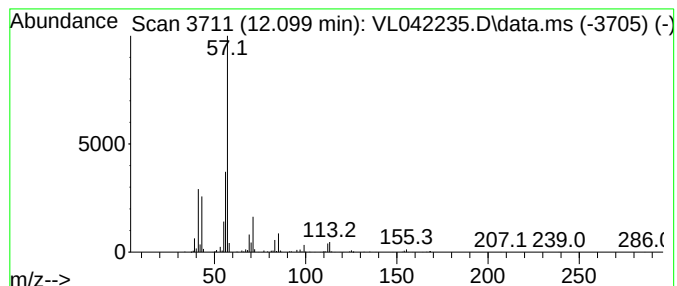
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B10-4-04012025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

Peak Number 4 Heptane, 2,2,4,6,6-pentamet... Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.	
12.099	1.85 ppbv	328846	Chlorobenzene-d5	8.901	
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heptane, 2,2,4,6,6-pentamethyl-	170	C12H26	013475-82-6	64
2	Tetradecane, 2,2-dimethyl-	226	C16H34	059222-86-5	64
3	Decane, 2,2,8-trimethyl-	184	C13H28	062238-01-1	64
4	Heptane, 2,2-dimethyl-	128	C9H20	001071-26-7	59
5	Hexane, 2,2,5-trimethyl-	128	C9H20	003522-94-9	59



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040725\
Data File : VL042235.D
Acq On : 07 Apr 2025 14:51
Operator : SY/MD
Sample : Q1725-02
Misc : 400mL/MSVOA_L
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
SSSG-B10-4-04012025

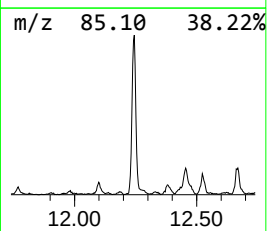
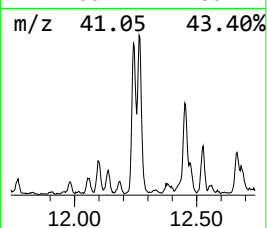
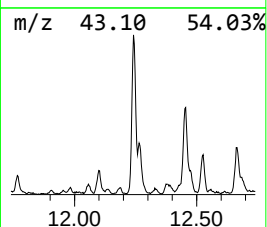
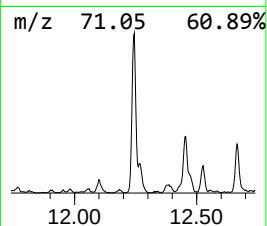
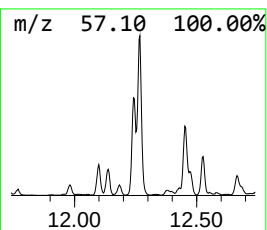
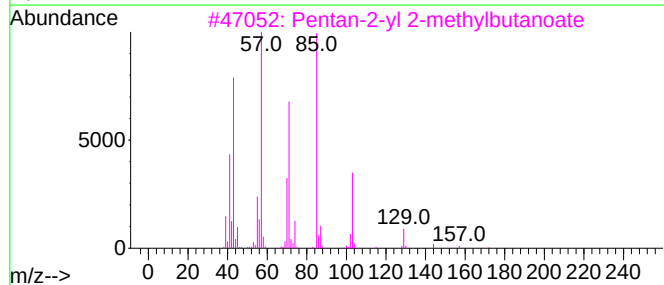
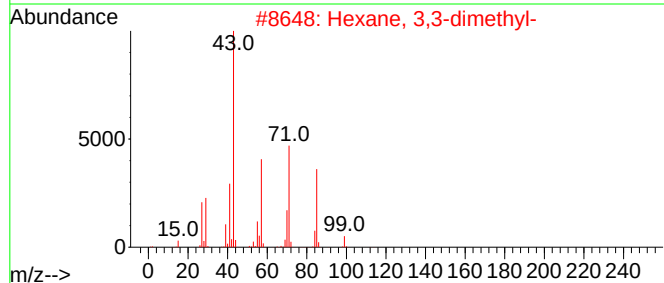
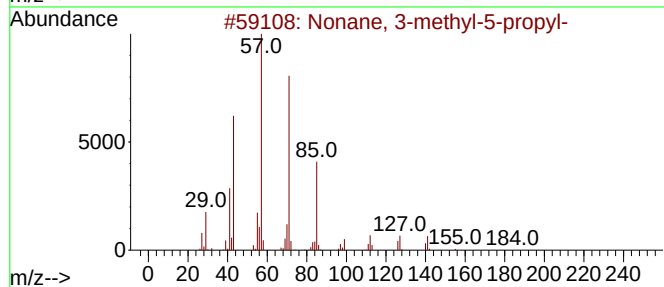
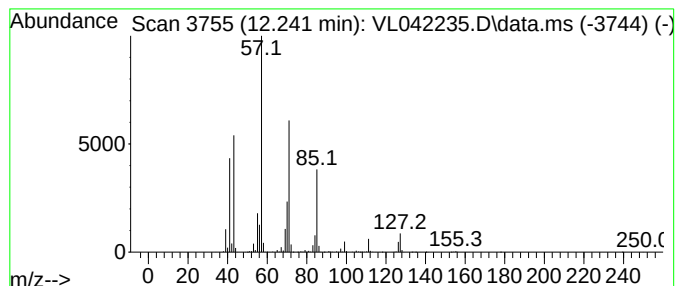
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

Peak Number 5 Nonane, 3-methyl-5-propyl- Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.241	9.18 ppbv	1635720	Chlorobenzene-d5	8.901

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Nonane, 3-methyl-5-propyl-	184	C13H28	031081-18-2	78
2			Hexane, 3,3-dimethyl-	114	C8H18	000563-16-6	64
3			Pentan-2-yl 2-methylbutanoate	172	C10H20O2	1000372-71-7	64
4			Nonane, 2-methyl-5-propyl-	184	C13H28	031081-17-1	64
5			Sulfurous acid, 2-ethylhexyl hex...	278	C14H30O3S	1000309-20-2	59



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040725\
Data File : VL042235.D
Acq On : 07 Apr 2025 14:51
Operator : SY/MD
Sample : Q1725-02
Misc : 400mL/MSVOA_L
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
SSSG-B10-4-04012025

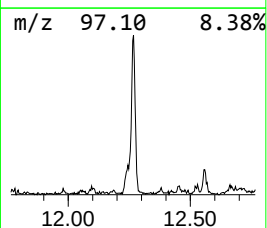
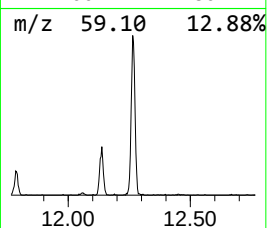
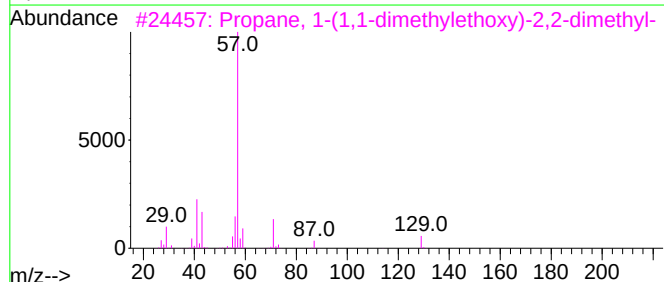
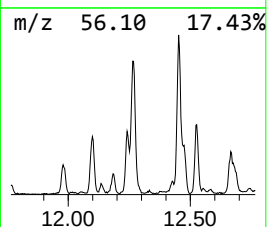
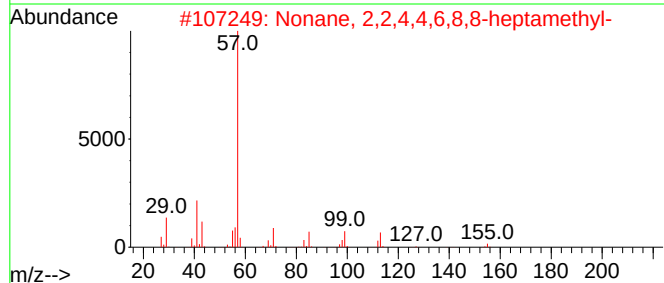
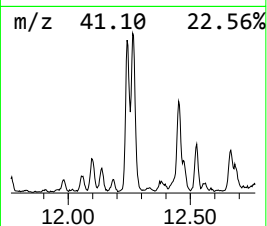
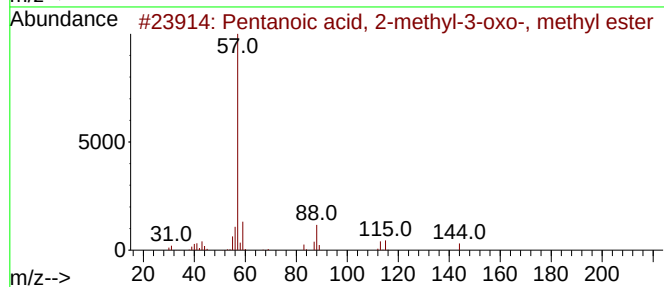
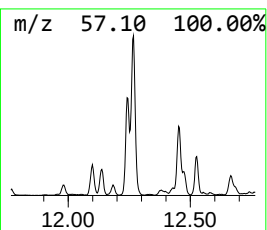
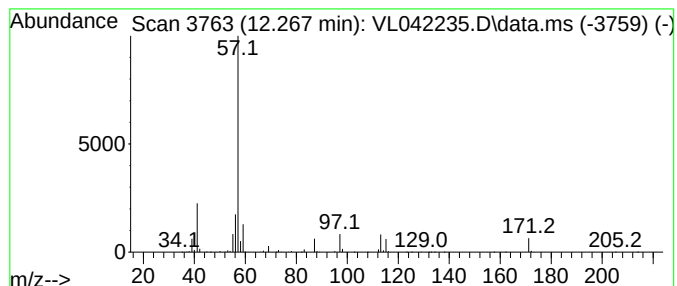
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

Peak Number 6 unknown12.267 Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.267	8.06 ppbv	1436340	Chlorobenzene-d5	8.901

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Pentanoic acid, 2-methyl-3-oxo-,...	144	C7H12O3	017422-12-7	45
2			Nonane, 2,2,4,4,6,8,8-heptamethyl-	226	C16H34	004390-04-9	43
3			Propane, 1-(1,1-dimethylethoxy)-...	144	C9H20O	032970-46-0	40
4			di-tert-Butyl dicarbonate	218	C10H18O5	024424-99-5	38
5			di-tert-Butyl acetylenedicarboxy...	226	C12H18O4	066086-33-7	38



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040725\
Data File : VL042235.D
Acq On : 07 Apr 2025 14:51
Operator : SY/MD
Sample : Q1725-02
Misc : 400mL/MSVOA_L
ALS Vial : 7 Sample Multiplier: 1

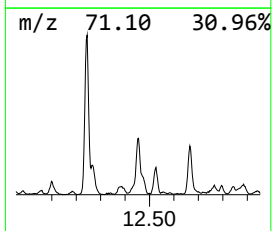
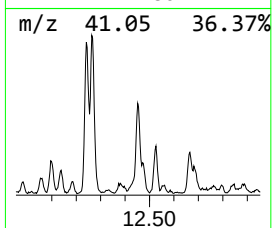
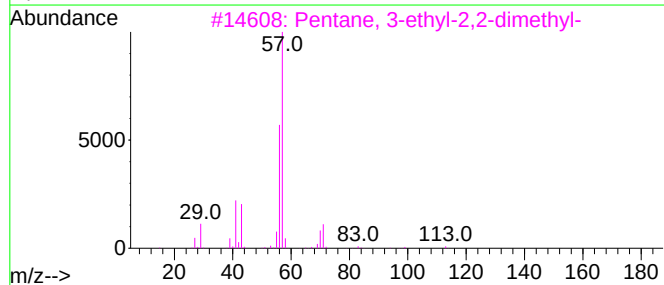
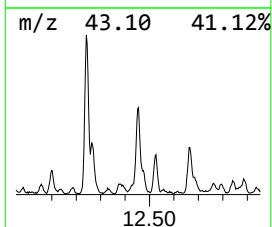
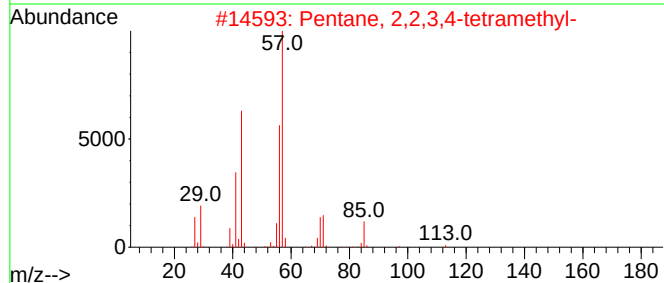
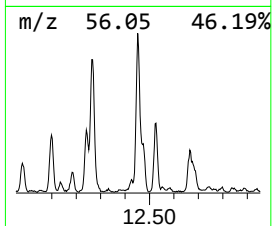
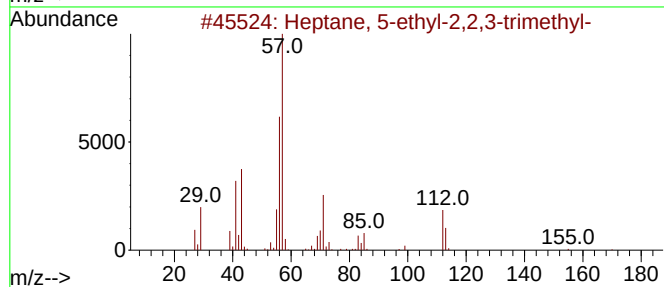
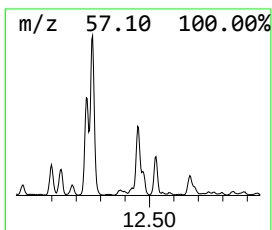
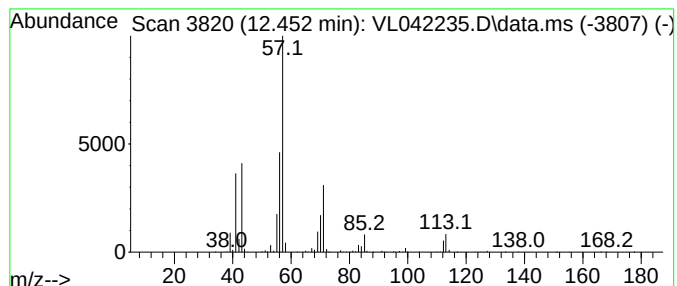
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B10-4-04012025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

Peak Number 7 Heptane, 5-ethyl-2,2,3-trimethyl- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD		R.T.	
12.452	6.33 ppbv	1128030	Chlorobenzene-d5		8.901	
Hit# of 5	Tentative ID		MW	MolForm	CAS#	Qual
1	Heptane, 5-ethyl-2,2,3-trimethyl-		170	C12H26	062199-06-8	64
2	Pentane, 2,2,3,4-tetramethyl-		128	C9H20	001186-53-4	59
3	Pentane, 3-ethyl-2,2-dimethyl-		128	C9H20	016747-32-3	59
4	Hexane, 2,2,5,5-tetramethyl-		142	C10H22	001071-81-4	53
5	Decane, 2,5,6-trimethyl-		184	C13H28	062108-23-0	53



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040725\
Data File : VL042235.D
Acq On : 07 Apr 2025 14:51
Operator : SY/MD
Sample : Q1725-02
Misc : 400mL/MSVOA_L
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
SSSG-B10-4-04012025

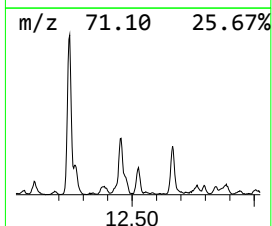
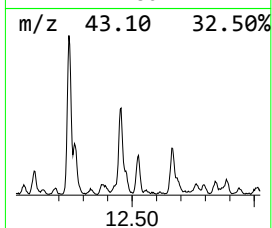
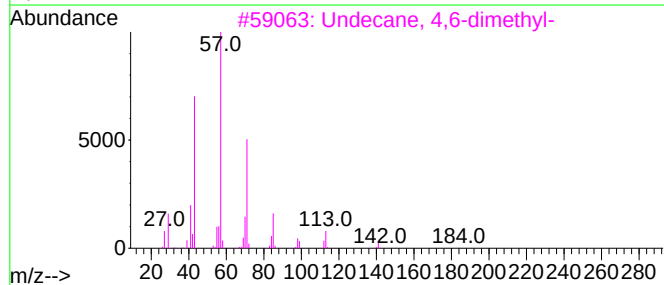
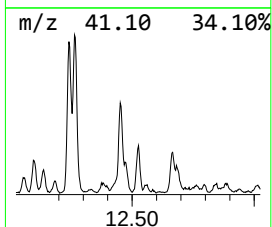
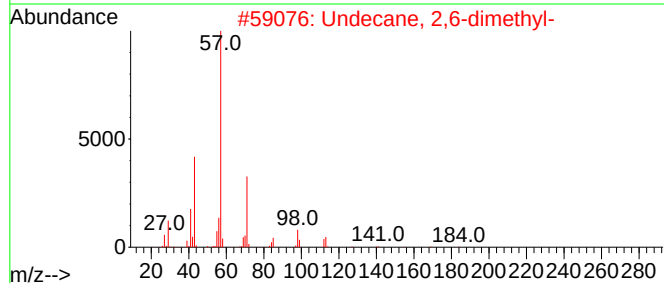
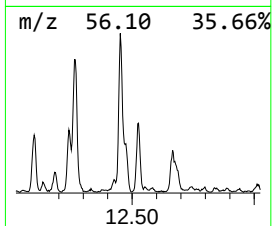
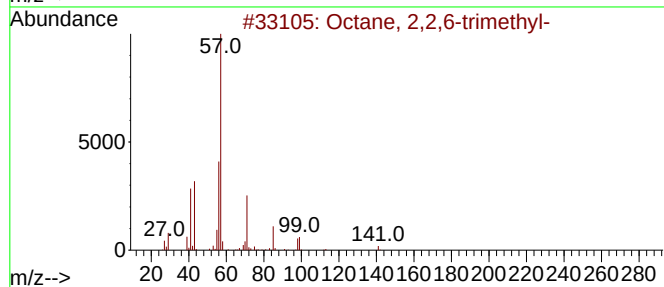
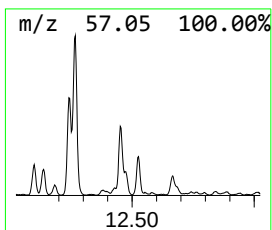
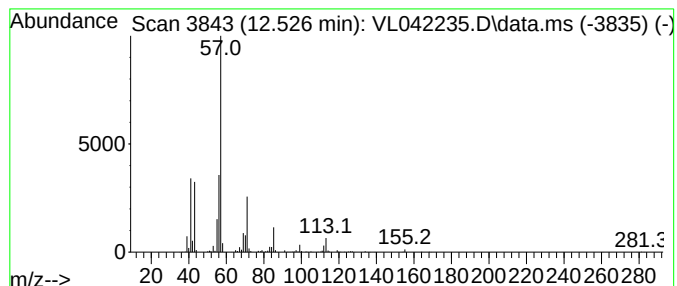
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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

Peak Number 8 Octane, 2,2,6-trimethyl- Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.526	2.58 ppbv	458923	Chlorobenzene-d5	8.901

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Octane, 2,2,6-trimethyl-	156	C11H24	062016-28-8	64
2			Undecane, 2,6-dimethyl-	184	C13H28	017301-23-4	59
3			Undecane, 4,6-dimethyl-	184	C13H28	017312-82-2	59
4			Octane, 2,2,6-trimethyl-	156	C11H24	062016-28-8	53
5			Undecane, 3,6-dimethyl-	184	C13H28	017301-28-9	53



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040725\
Data File : VL042235.D
Acq On : 07 Apr 2025 14:51
Operator : SY/MD
Sample : Q1725-02
Misc : 400mL/MSVOA_L
ALS Vial : 7 Sample Multiplier: 1

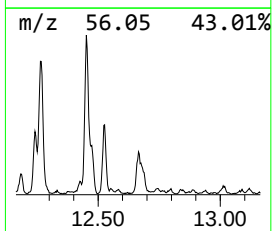
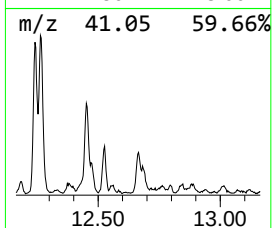
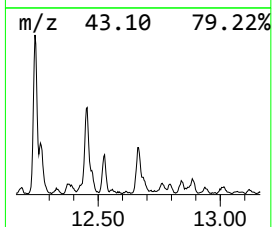
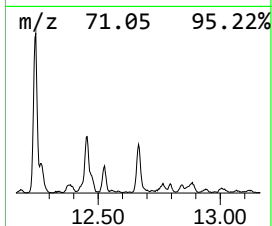
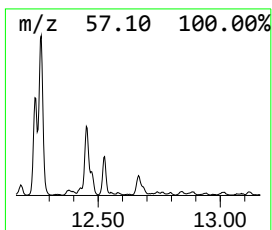
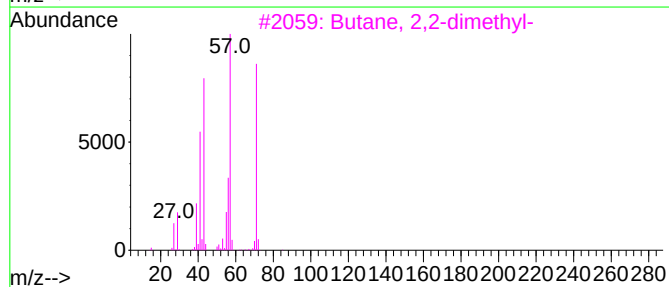
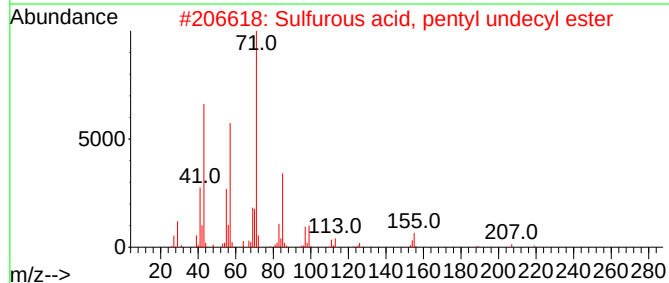
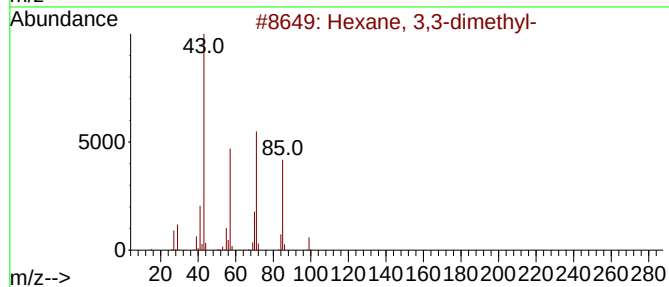
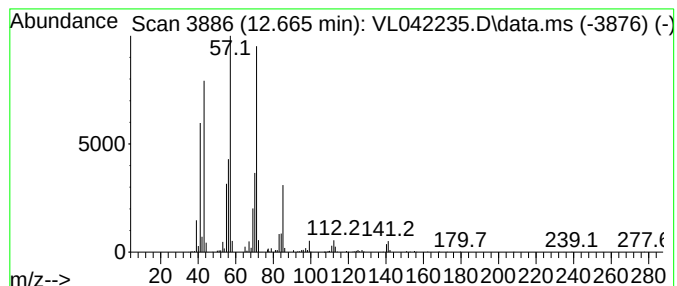
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B10-4-04012025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

Peak Number 9 Hexane, 3,3-dimethyl- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD		R.T.	
12.665	2.83 ppbv	504569	Chlorobenzene-d5		8.901	
Hit# of 5	Tentative ID		MW	MolForm	CAS#	Qual
1	Hexane, 3,3-dimethyl-		114	C8H18	000563-16-6	58
2	Sulfurous acid, pentyl undecyl e...		306	C16H34O3S	1000309-14-4	53
3	Butane, 2,2-dimethyl-		86	C6H14	000075-83-2	53
4	Nonane, 2,6-dimethyl-		156	C11H24	017302-28-2	50
5	Oxalic acid, 2-ethylhexyl pentyl...		272	C15H28O4	1000309-38-7	47



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040725\
Data File : VL042235.D
Acq On : 07 Apr 2025 14:51
Operator : SY/MD
Sample : Q1725-02
Misc : 400mL/MSVOA_L
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
SSSG-B10-4-04012025

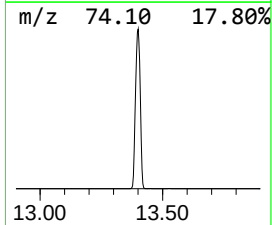
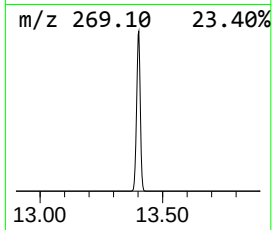
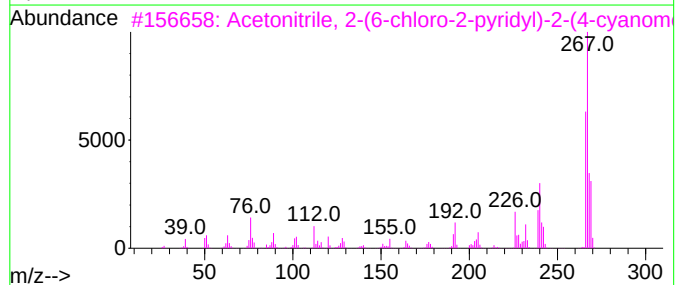
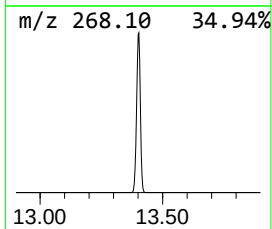
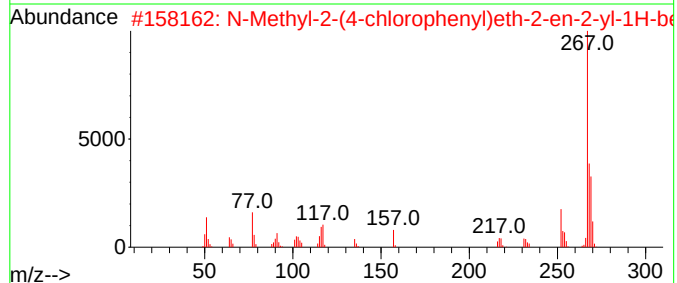
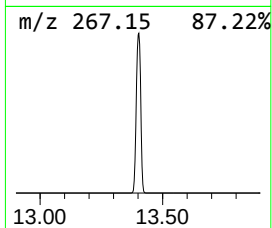
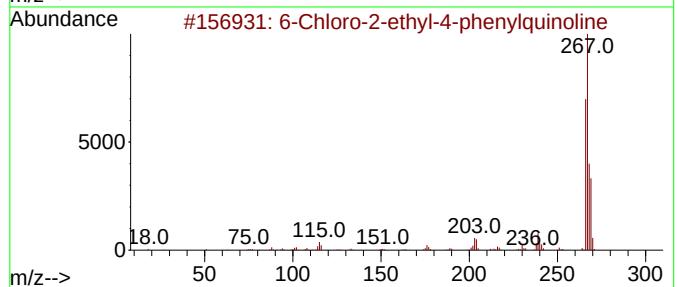
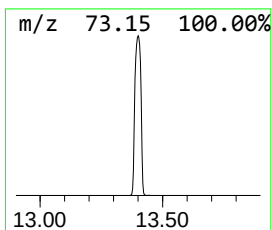
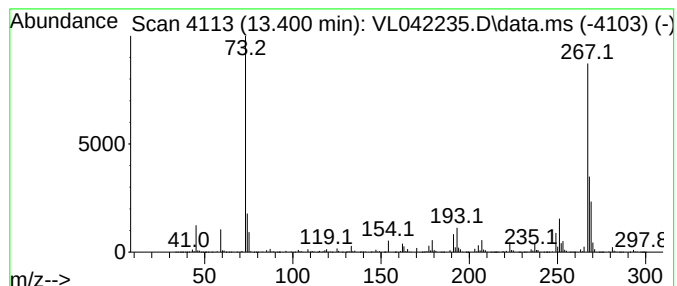
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

Peak Number 10 6-Chloro-2-ethyl-4-phenylqu... Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.400	87.62 ppbv	15606100	Chlorobenzene-d5	8.901

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			6-Chloro-2-ethyl-4-phenylquinoline	267	C17H14ClN	022609-10-5	52
2			N-Methyl-2-(4-chlorophenyl)eth-2...	268	C16H13ClN2	002562-96-1	50
3			Acetonitrile, 2-(6-chloro-2-pyri...	267	C15H10ClN3	1000162-41-0	50
4			4-(4-Fluorophenyl)-2,3-dihydro-1...	267	C12H14FN0SSi	1010501-61-0	50
5			Propenone, 1-(4-nitrophenyl)-3-p...	268	C15H12N2O3	1000302-96-9	49



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040725\
Data File : VL042235.D
Acq On : 07 Apr 2025 14:51
Operator : SY/MD
Sample : Q1725-02
Misc : 400mL/MSVOA_L
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
SSSG-B10-4-04012025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

TIC Library : C:\Database\NIST0.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	--Internal Standard--			
					#	RT	Resp	Conc
D-Limonene	12.057	1.9	ppbv	338553	3	8.901	1781030	10.0
Heptane, 2,2,4,...	12.099	1.9	ppbv	328846	3	8.901	1781030	10.0
Nonane, 3-methy...	12.241	9.2	ppbv	1635720	3	8.901	1781030	10.0
unknown12.267	12.267	8.1	ppbv	1436340	3	8.901	1781030	10.0
Heptane, 5-ethy...	12.452	6.3	ppbv	1128030	3	8.901	1781030	10.0
Octane, 2,2,6-t...	12.526	2.6	ppbv	458923	3	8.901	1781030	10.0
Hexane, 3,3-dim...	12.665	2.8	ppbv	504569	3	8.901	1781030	10.0
6-Chloro-2-ethy...	13.400	87.6	ppbv	15606100	3	8.901	1781030	10.0

Report of Analysis

Client:	Woodard & Curran	Date Collected:	04/01/25
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	04/03/25
Client Sample ID:	SSSG-B10-4-04012025DL	SDG No.:	Q1725
Lab Sample ID:	Q1725-02DL	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042236.D	10		04/07/25 17:44	VL040725

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	2.10	10.4	UD	10.4	24.7	ug/m3
74-87-3	Chloromethane	0.98	2.02	UD	2.02	10.3	ug/m3
75-01-4	Vinyl Chloride	0.14	0.36	UD	0.36	0.77	ug/m3
74-83-9	Bromomethane	1.40	5.44	UD	5.44	19.4	ug/m3
75-00-3	Chloroethane	1.70	4.49	UD	4.49	13.2	ug/m3
109-99-9	Tetrahydrofuran	1.30	3.83	UD	3.83	14.8	ug/m3
75-69-4	Trichlorofluoromethane	1.60	8.99	UD	8.99	28.1	ug/m3
76-13-1	1,1,2-Trichlorotrifluoroethane	1.60	12.3	UD	12.3	38.3	ug/m3
76-14-2	Dichlorotetrafluoroethane	0.88	6.15	UD	6.15	35.0	ug/m3
75-65-0	tert-Butyl alcohol	1.90	5.76	UD	5.76	15.2	ug/m3
142-82-5	Heptane	1.10	4.51	UD	4.51	20.5	ug/m3
75-35-4	1,1-Dichloroethene	1.60	6.34	JD	5.55	19.8	ug/m3
67-64-1	Acetone	33.9	80.5	D	5.70	11.9	ug/m3
75-15-0	Carbon Disulfide	1.60	4.98	UD	4.98	15.6	ug/m3
1634-04-4	Methyl tert-Butyl Ether	1.20	4.33	UD	4.33	18.0	ug/m3
75-09-2	Methylene Chloride	2.50	8.69	JD	6.60	17.4	ug/m3
156-60-5	trans-1,2-Dichloroethene	1.90	7.53	UD	7.53	19.8	ug/m3
75-34-3	1,1-Dichloroethane	1.30	5.26	UD	5.26	20.2	ug/m3
110-82-7	Cyclohexane	2.20	7.57	UD	7.57	17.2	ug/m3
78-93-3	2-Butanone	1.20	3.54	UD	3.54	14.8	ug/m3
56-23-5	Carbon Tetrachloride	3.30	20.8	D	0.69	1.89	ug/m3
156-59-2	cis-1,2-Dichloroethene	0.89	3.53	UD	3.53	19.8	ug/m3
67-66-3	Chloroform	400	1950	ED	4.05	24.4	ug/m3
71-55-6	1,1,1-Trichloroethane	0.10	0.55	UD	0.55	1.64	ug/m3
540-84-1	2,2,4-Trimethylpentane	1.00	4.67	UD	4.67	23.4	ug/m3
71-43-2	Benzene	0.87	2.78	UD	2.78	16.0	ug/m3
107-06-2	1,2-Dichloroethane	0.91	3.68	UD	3.68	20.2	ug/m3
79-01-6	Trichloroethene	0.98	5.27	D	0.91	1.61	ug/m3
78-87-5	1,2-Dichloropropane	1.10	5.08	UD	5.08	23.1	ug/m3
75-27-4	Bromodichloromethane	0.77	5.16	UD	5.16	33.5	ug/m3
108-10-1	4-Methyl-2-Pentanone	0.93	3.81	UD	3.81	20.5	ug/m3
108-88-3	Toluene	1.20	4.52	JD	4.15	18.8	ug/m3
10061-02-6	t-1,3-Dichloropropene	0.60	2.72	UD	2.72	22.7	ug/m3
10061-01-5	cis-1,3-Dichloropropene	0.64	2.91	UD	2.91	22.7	ug/m3
79-00-5	1,1,2-Trichloroethane	0.71	3.87	UD	3.87	27.3	ug/m3

Report of Analysis

Client:	Woodard & Curran	Date Collected:	04/01/25
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	04/03/25
Client Sample ID:	SSSG-B10-4-04012025DL	SDG No.:	Q1725
Lab Sample ID:	Q1725-02DL	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042236.D	10		04/07/25 17:44	VL040725

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
124-48-1	Dibromochloromethane	0.66	5.62	UD	5.62	42.6	ug/m3
106-93-4	1,2-Dibromoethane	0.72	5.53	UD	5.53	7.69	ug/m3
127-18-4	Tetrachloroethene	2.90	19.7	D	1.02	2.03	ug/m3
108-90-7	Chlorobenzene	0.76	3.50	UD	3.50	23.0	ug/m3
100-41-4	Ethyl Benzene	1.20	5.21	UD	5.21	21.7	ug/m3
179601-23-1	m/p-Xylene	2.10	9.12	UD	9.12	43.4	ug/m3
95-47-6	o-Xylene	1.20	5.21	UD	5.21	21.7	ug/m3
100-42-5	Styrene	1.10	4.68	UD	4.68	21.3	ug/m3
75-25-2	Bromoform	0.57	5.89	UD	5.89	51.7	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	0.11	0.76	UD	0.76	2.06	ug/m3
95-49-8	2-Chlorotoluene	1.10	5.70	UD	5.70	25.9	ug/m3
108-67-8	1,3,5-Trimethylbenzene	1.10	5.41	UD	5.41	24.6	ug/m3
95-63-6	1,2,4-Trimethylbenzene	0.78	3.83	UD	3.83	24.6	ug/m3
541-73-1	1,3-Dichlorobenzene	0.80	4.81	UD	4.81	30.1	ug/m3
106-46-7	1,4-Dichlorobenzene	0.53	3.19	UD	3.19	30.1	ug/m3
95-50-1	1,2-Dichlorobenzene	0.75	4.51	UD	4.51	30.1	ug/m3
120-82-1	1,2,4-Trichlorobenzene	0.85	6.31	UD	6.31	37.1	ug/m3
87-68-3	Hexachloro-1,3-Butadiene	0.85	9.07	UD	9.07	53.3	ug/m3
106-99-0	1,3-Butadiene	1.30	2.88	UD	2.88	11.1	ug/m3
91-20-3	Naphthalene	0.75	3.93	UD	3.93	5.24	ug/m3
622-96-8	4-Ethyltoluene	1.20	5.90	UD	5.90	24.6	ug/m3
110-54-3	Hexane	1.10	3.88	UD	3.88	17.6	ug/m3
107-05-1	Allyl Chloride	1.50	4.70	UD	4.70	15.7	ug/m3
123-91-1	1,4-Dioxane	2.10	7.57	UD	7.57	18.0	ug/m3
80-62-6	Methyl Methacrylate	0.86	3.52	UD	3.52	20.5	ug/m3
SURROGATES							
460-00-4	1-Bromo-4-Fluorobenzene	9.50			70 (65) - 130 (135)	95%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	204000		2.803			
540-36-3	1,4-Difluorobenzene	532000		3.981			
3114-55-4	Chlorobenzene-d5	458000		8.904			

Report of Analysis

Client:	Woodard & Curran	Date Collected:	04/01/25
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	04/03/25
Client Sample ID:	SSSG-B10-4-04012025DL	SDG No.:	Q1725
Lab Sample ID:	Q1725-02DL	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042236.D	10		04/07/25 17:44	VL040725

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units

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\VL040725\
 Data File : VL042236.D
 Acq On : 07 Apr 2025 17:44
 Operator : SY/MD
 Sample : Q1725-02DL 10X
 Misc : 400mL/MSVOA_L
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SSSG-B10-4-04012025DL

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 04/08/2025
 Supervised By :Mahesh Dadoda 04/09/2025

Quant Time: Apr 08 01:33:17 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M

Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 2025

QLast Update : Fri Mar 28 02:00:52 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.803	49	203982	10.000	ppbv	0.02
33) 1,4-Difluorobenzene	3.981	114	532301	10.000	ppbv	0.03
55) Chlorobenzene-d5	8.904	117	458285	10.000	ppbv	0.03
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.396	95	357544	9.500	ppbv	0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	95.000%
Target Compounds						
					Qvalue	
13) Ethanol	1.729	45	17823	13.369	ppbv #	27
15) Acetone	1.845	43	96697	3.390	ppbv	94
18) 1,1-Dichloroethene	2.042	96	1841	0.163	ppbv	99
19) Isopropyl Alcohol	1.897	45	46008	2.858	ppbv	88
20) Methylene Chloride	2.072	84	2645m	0.249	ppbv	
29) Chloroform	2.865	83	1667671	39.844	ppbv	93
35) Carbon Tetrachloride	3.787	117	13908m	0.334	ppbv	
38) Trichloroethene	4.574	130	2161m	0.098	ppbv	
52) Tetrachloroethene	8.244	164	5959m	0.285	ppbv	
53) Toluene	6.962	91	7236m	0.116	ppbv	

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

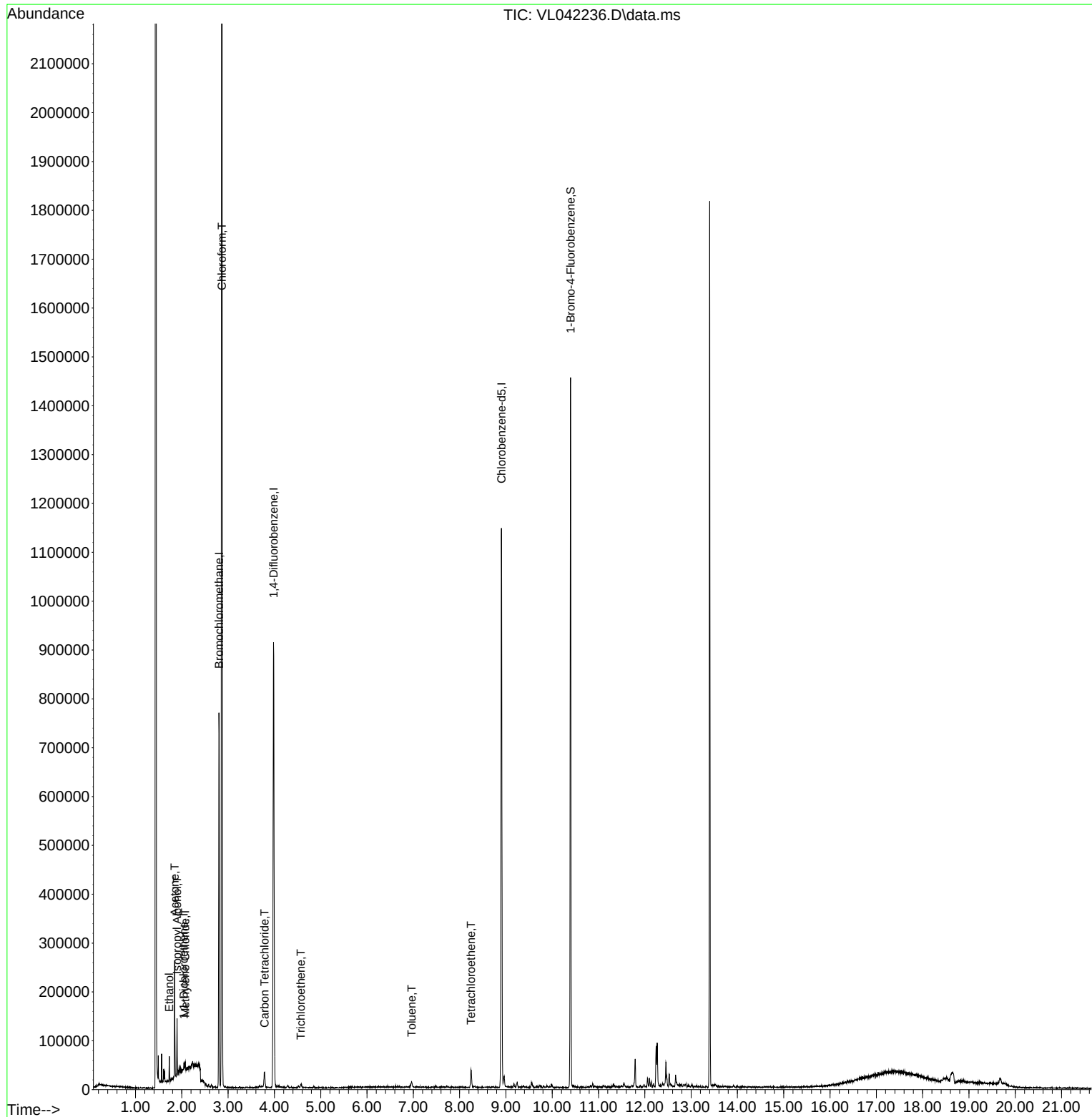
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Data File : VL042236.D
Acq On : 07 Apr 2025 17:44
Operator : SY/MD
Sample : Q1725-02DL 10X
Misc : 400mL/MSVOA_L
ALS Vial : 7 Sample Multiplier: 1

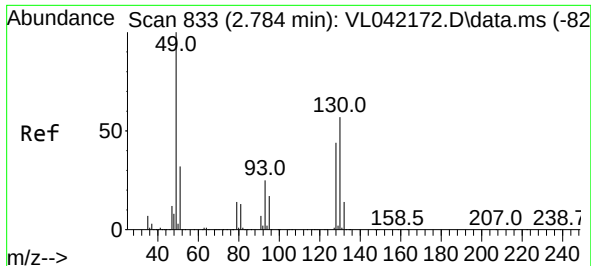
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B10-4-04012025DL

Quant Time: Apr 08 01:33:17 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Fri Mar 28 02:00:52 2025
Response via : Initial Calibration

Manual Integrations
APPROVED

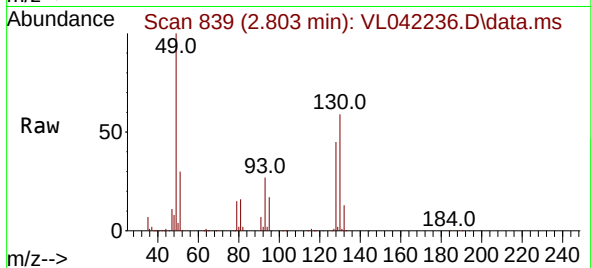
Reviewed By : Semsettin Yesilyurt 04/08/2025
Supervised By : Mahesh Dadoda 04/09/2025





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.803 min Scan# 81
Delta R.T. 0.019 min
Lab File: VL042236.D
Acq: 07 Apr 2025 17:44

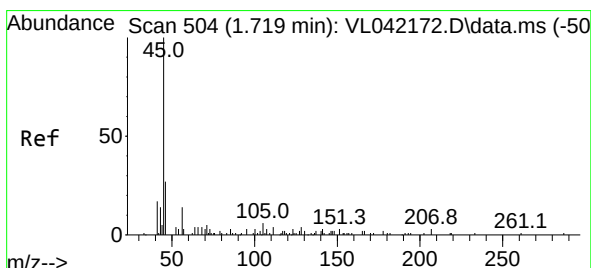
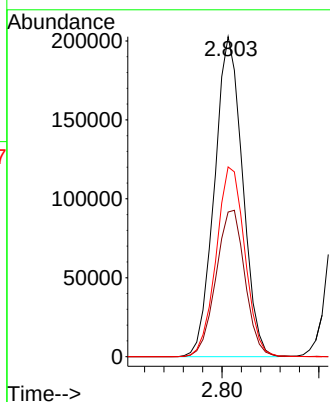
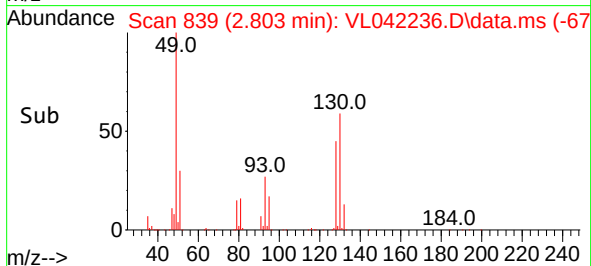
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B10-4-04012025DL



Tgt Ion: 49 Resp: 20398
Ion Ratio Lower Upper
49 100
128 47.3 22.9 68.5
130 60.7 28.8 86.4

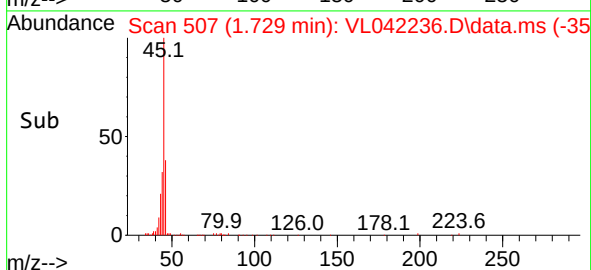
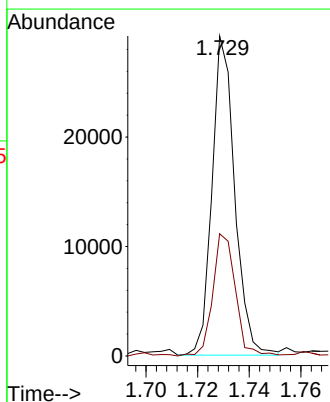
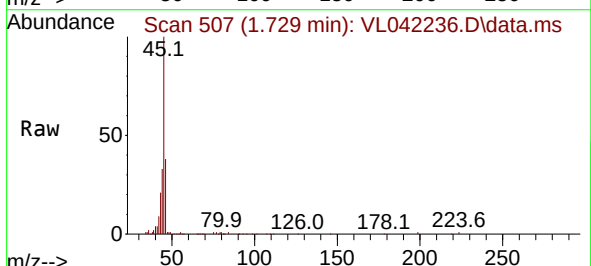
Manual Integrations
APPROVED

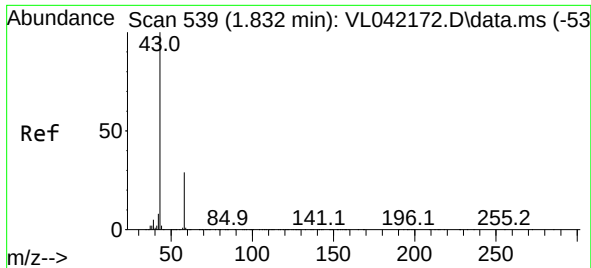
Reviewed By :Semsettin Yesilyurt 04/08/2025
Supervised By :Mahesh Dadoda 04/09/2025



#13
Ethanol
Concen: 13.369 ppbv
RT: 1.729 min Scan# 507
Delta R.T. 0.009 min
Lab File: VL042236.D
Acq: 07 Apr 2025 17:44

Tgt Ion: 45 Resp: 17823
Ion Ratio Lower Upper
45 100
46 0.0 20.2 80.8#





#15

Acetone

Concen: 3.390 ppbv

RT: 1.845 min Scan# 54

Delta R.T. 0.013 min

Lab File: VL042236.D

Acq: 07 Apr 2025 17:44

Instrument :

MSVOA_L

ClientSampleId :

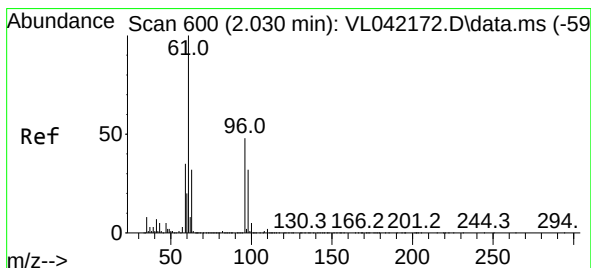
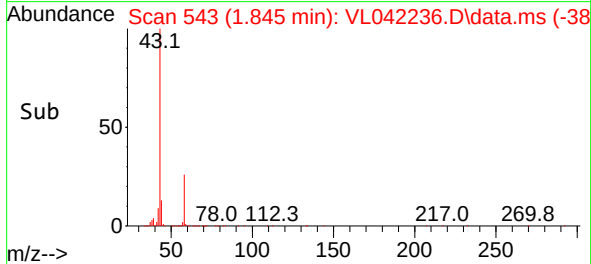
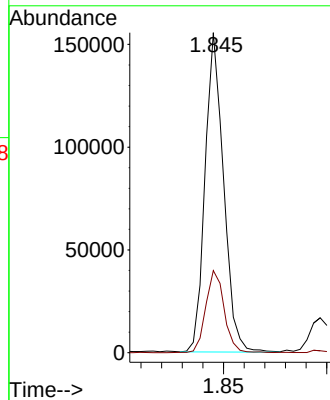
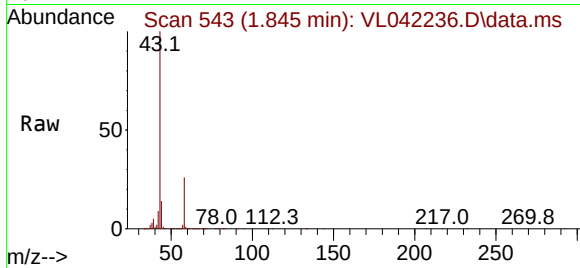
SSSG-B10-4-04012025DL

Tgt Ion: 43 Resp: 9669
 Ion Ratio Lower Upper
 43 100
 58 25.7 23.2 34.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/08/2025
 Supervised By :Mahesh Dadoda 04/09/2025



#18

1,1-Dichloroethene

Concen: 0.163 ppbv

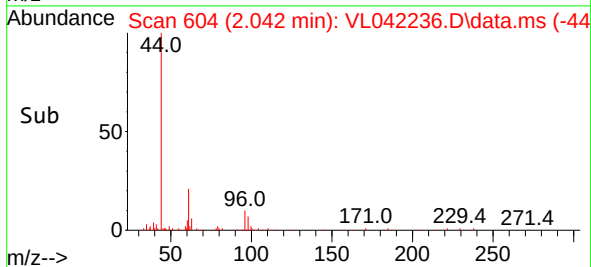
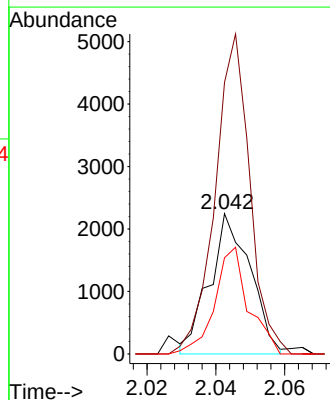
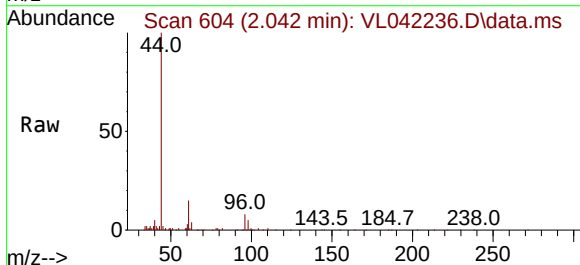
RT: 2.042 min Scan# 604

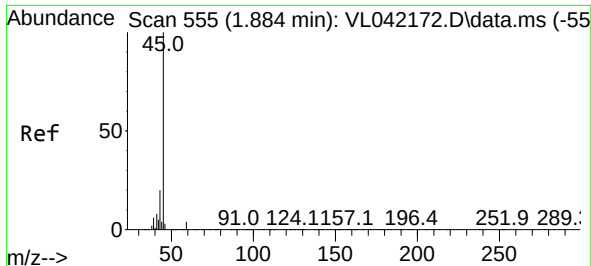
Delta R.T. 0.013 min

Lab File: VL042236.D

Acq: 07 Apr 2025 17:44

Tgt Ion: 96 Resp: 1841
 Ion Ratio Lower Upper
 96 100
 61 209.1 167.6 251.4
 98 70.8 53.5 80.3





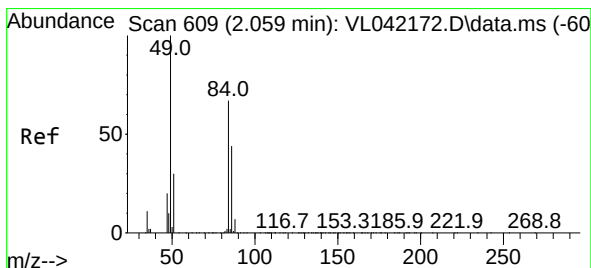
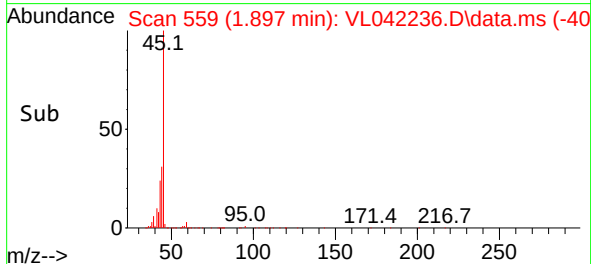
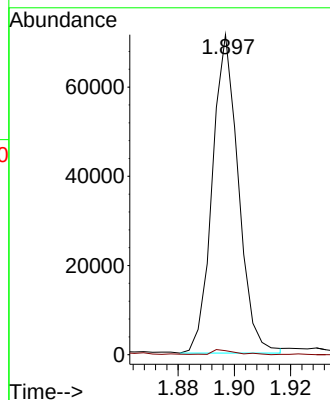
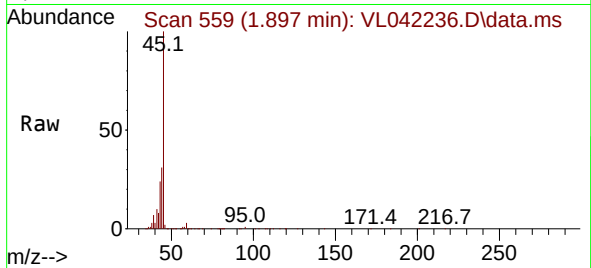
#19
Isopropyl Alcohol
Concen: 2.858 ppbv
RT: 1.897 min Scan# 511
Delta R.T. 0.013 min
Lab File: VL042236.D
Acq: 07 Apr 2025 17:44

Instrument :
MSVOA_L
ClientSampleId :
SSSG-B10-4-04012025DL

Tgt Ion: 45 Resp: 46008
Ion Ratio Lower Upper
45 100
58 54.2 36.9 55.3

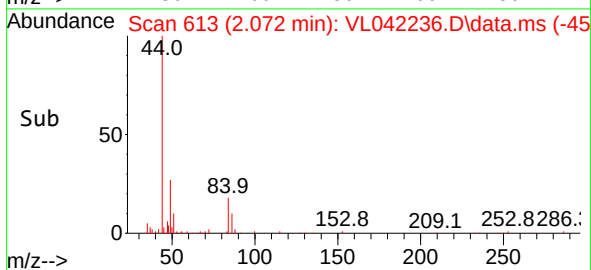
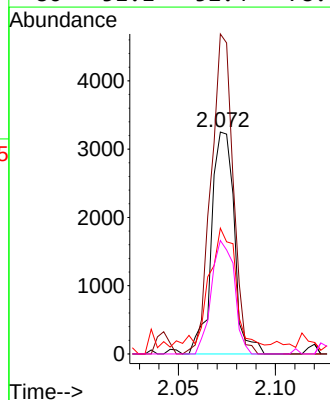
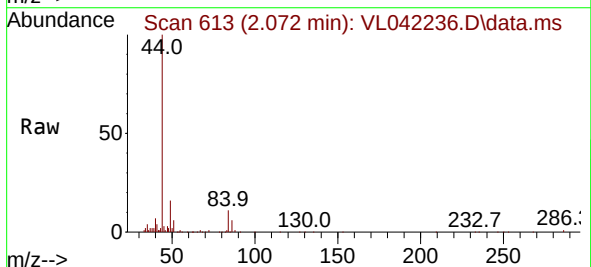
Manual Integrations
APPROVED

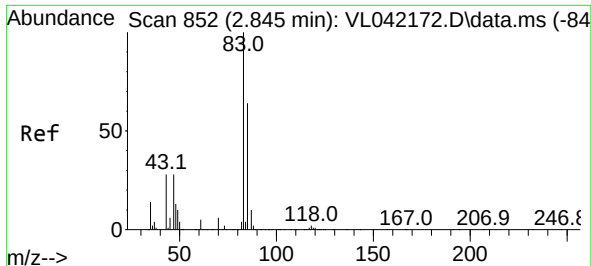
Reviewed By :Semsettin Yesilyurt 04/08/2025
Supervised By :Mahesh Dadoda 04/09/2025



#20
Methylene Chloride
Concen: 0.249 ppbv m
RT: 2.072 min Scan# 613
Delta R.T. 0.013 min
Lab File: VL042236.D
Acq: 07 Apr 2025 17:44

Tgt Ion: 84 Resp: 2645
Ion Ratio Lower Upper
84 100
49 144.2 120.2 180.4
51 56.7 37.4 56.0#
86 51.1 52.4 78.6#





#29

Chloroform

Concen: 39.844 ppbv

RT: 2.865 min Scan# 81

Delta R.T. 0.019 min

Lab File: VL042236.D

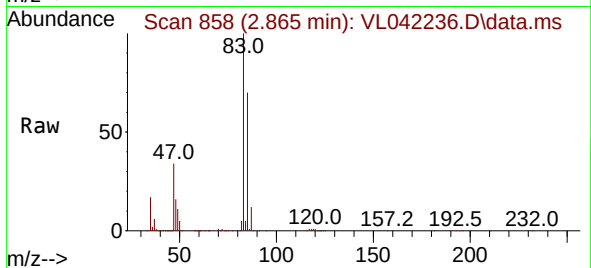
Acq: 07 Apr 2025 17:44

Instrument :

MSVOA_L

ClientSampleId :

SSSG-B10-4-04012025DL



Tgt Ion: 83 Resp: 166767

Ion Ratio Lower Upper

83 100

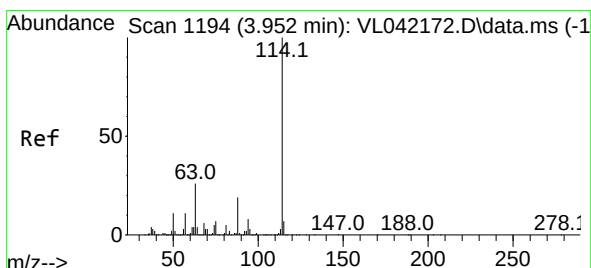
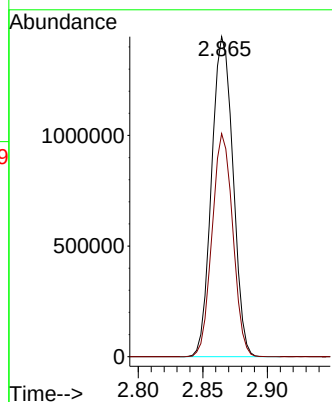
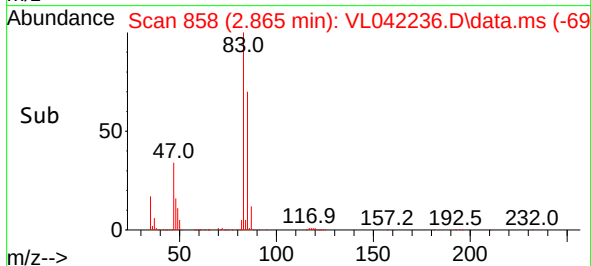
85 69.7 51.4 77.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/08/2025

Supervised By :Mahesh Dadoda 04/09/2025



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.981 min Scan# 1203

Delta R.T. 0.029 min

Lab File: VL042236.D

Acq: 07 Apr 2025 17:44

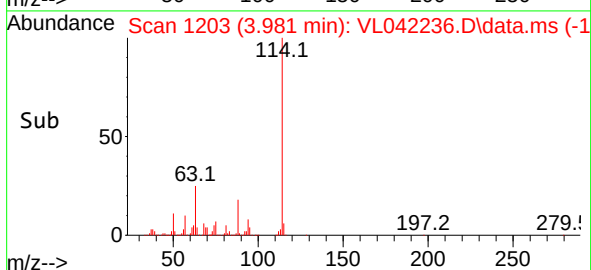
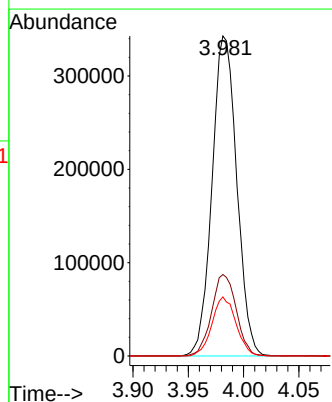
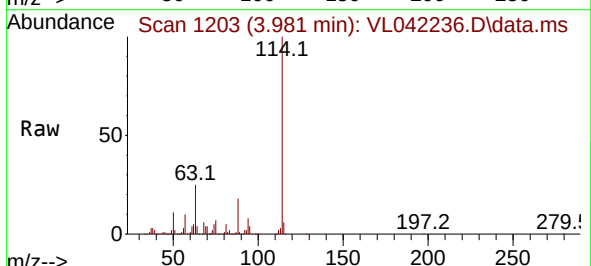
Tgt Ion:114 Resp: 532301

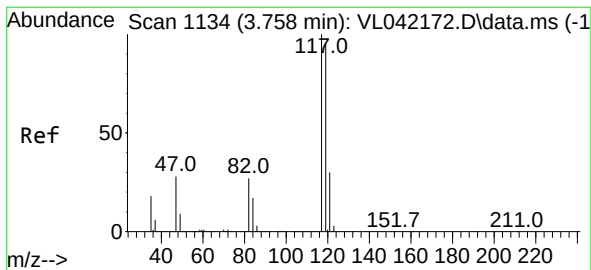
Ion Ratio Lower Upper

114 100

63 25.5 20.7 31.1

88 17.9 15.0 22.4





#35

Carbon Tetrachloride

Concen: 0.334 ppbv m

RT: 3.787 min Scan# 1143

Delta R.T. 0.029 min

Lab File: VL042236.D

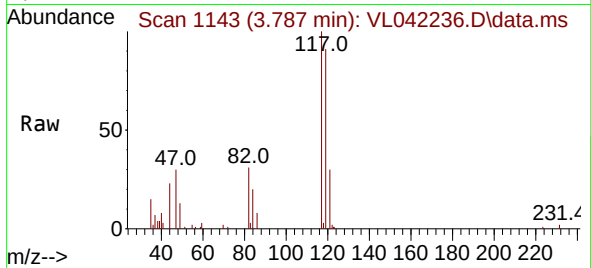
Acq: 07 Apr 2025 17:44

Instrument :

MSVOA_L

ClientSampleId :

SSSG-B10-4-04012025DL



Tgt Ion:117 Resp: 13908

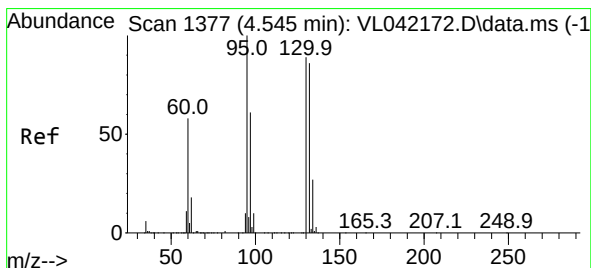
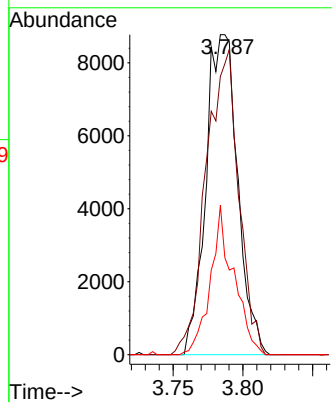
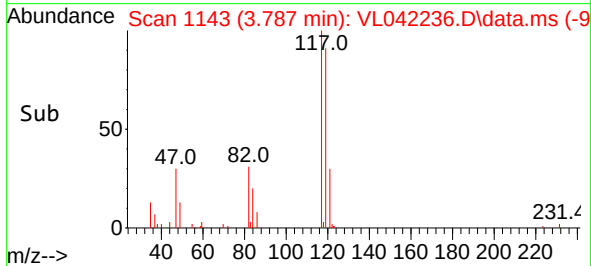
Ion	Ratio	Lower	Upper
117	100		
119	90.9	76.2	114.2
121	30.4	24.2	36.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/08/2025

Supervised By :Mahesh Dadoda 04/09/2025



#38

Trichloroethene

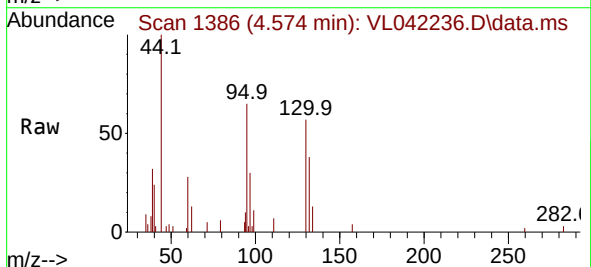
Concen: 0.098 ppbv m

RT: 4.574 min Scan# 1386

Delta R.T. 0.029 min

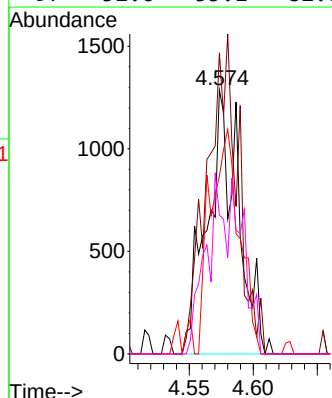
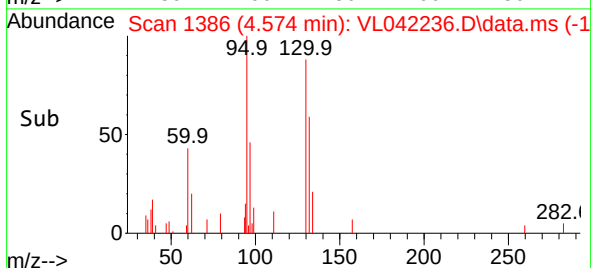
Lab File: VL042236.D

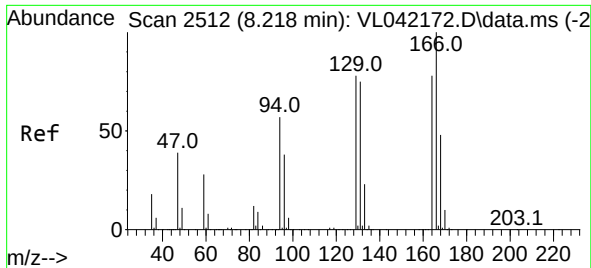
Acq: 07 Apr 2025 17:44



Tgt Ion:130 Resp: 2161

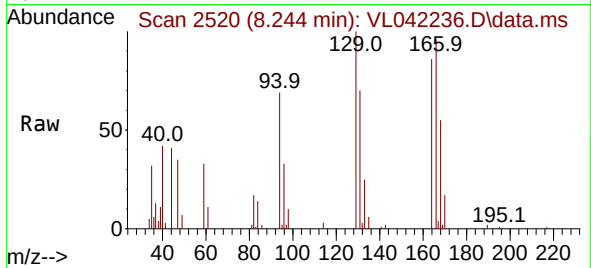
Ion	Ratio	Lower	Upper
130	100		
95	114.2	89.8	134.8
132	67.4	77.4	116.2#
97	52.6	55.1	82.7#





#52
Tetrachloroethene
Concen: 0.285 ppbv m
RT: 8.244 min Scan# 2124
Delta R.T. 0.026 min
Lab File: VL042236.D
Acq: 07 Apr 2025 17:44

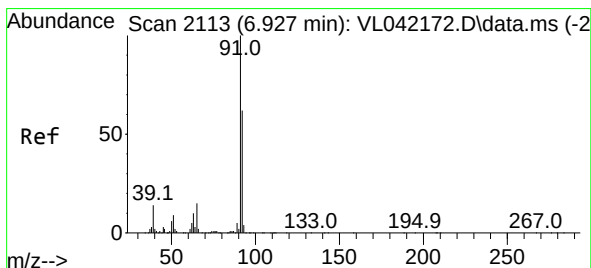
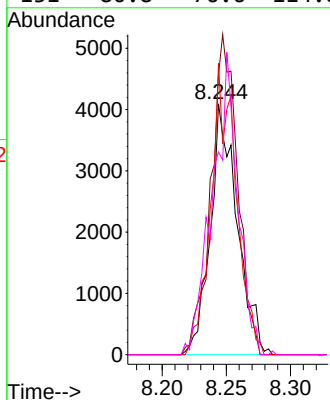
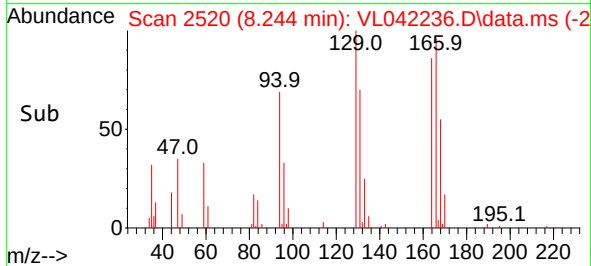
Instrument : MSVOA_L
ClientSampleId : SSSG-B10-4-04012025DL



Tgt Ion:164 Resp: 5958
Ion Ratio Lower Upper
164 100
166 111.7 102.5 153.7
129 116.1 79.8 119.8
131 80.8 76.6 114.8

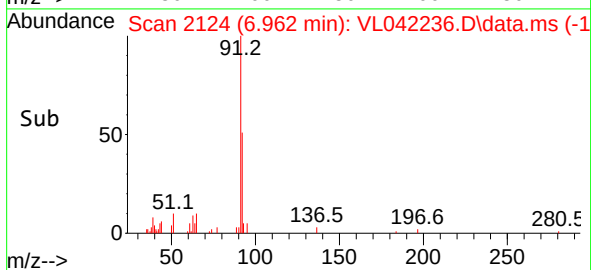
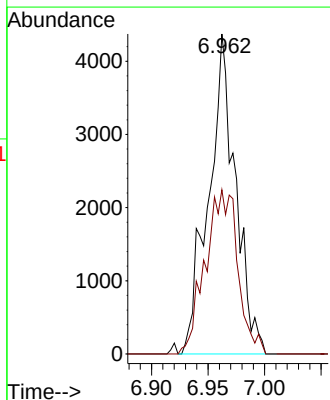
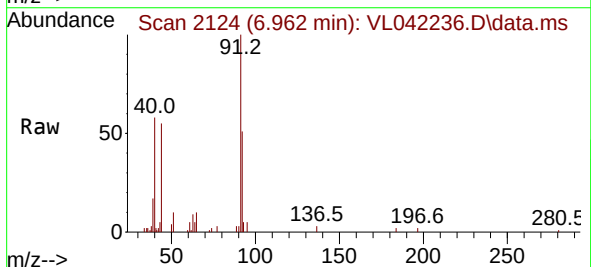
Manual Integrations
APPROVED

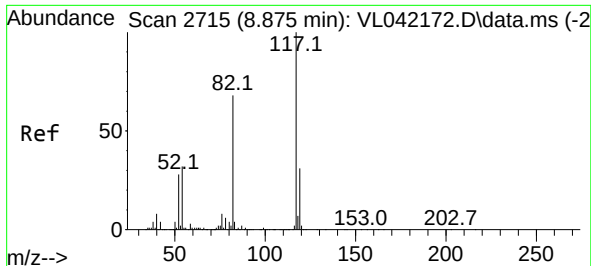
Reviewed By :Semsettin Yesilyurt 04/08/2025
Supervised By :Mahesh Dadoda 04/09/2025



#53
Toluene
Concen: 0.116 ppbv m
RT: 6.962 min Scan# 2124
Delta R.T. 0.035 min
Lab File: VL042236.D
Acq: 07 Apr 2025 17:44

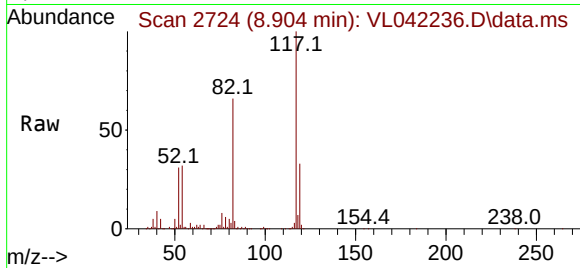
Tgt Ion: 91 Resp: 7236
Ion Ratio Lower Upper
91 100
92 0.0 48.4 72.6#





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.904 min Scan# 21
Delta R.T. 0.029 min
Lab File: VL042236.D
Acq: 07 Apr 2025 17:44

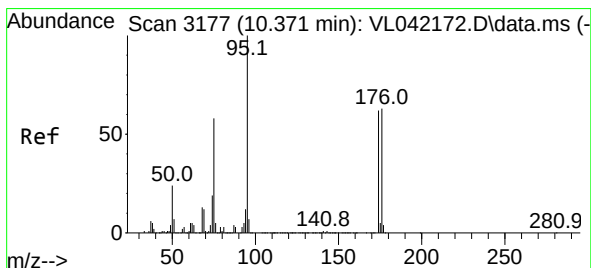
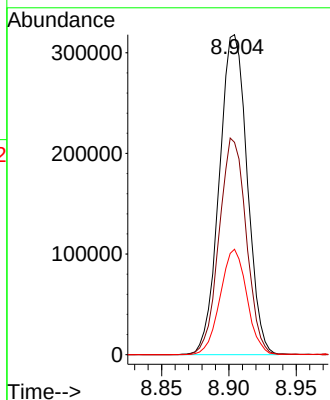
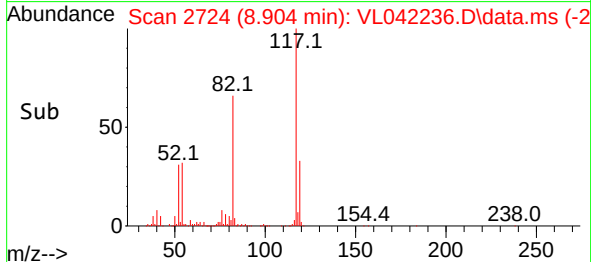
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B10-4-04012025DL



Tgt Ion: 117 Resp: 458285
Ion Ratio Lower Upper
117 100
82 65.9 55.8 83.6
119 31.7 25.5 38.3

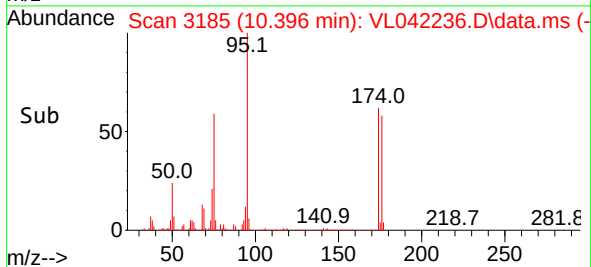
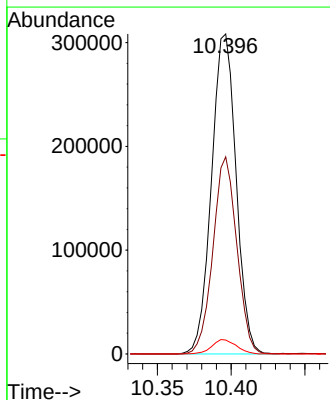
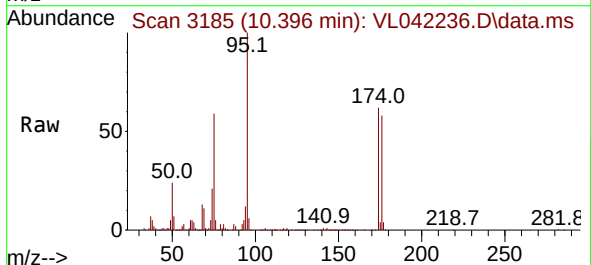
Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 04/08/2025
Supervised By :Mahesh Dadoda 04/09/2025



#68
1-Bromo-4-Fluorobenzene
Concen: 9.500 ppbv
RT: 10.396 min Scan# 3185
Delta R.T. 0.026 min
Lab File: VL042236.D
Acq: 07 Apr 2025 17:44

Tgt Ion: 95 Resp: 357544
Ion Ratio Lower Upper
95 100
174 60.1 50.6 76.0
175 4.5 3.8 5.6



Report of Analysis

Client:	Woodard & Curran	Date Collected:	04/01/25
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	04/03/25
Client Sample ID:	SSSG-B10-4-04012025DL2	SDG No.:	Q1725
Lab Sample ID:	Q1725-02DL2	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042243.D	40		04/07/25 21:38	VL040725

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	8.40	41.5	UD	41.5	98.9	ug/m3
74-87-3	Chloromethane	3.90	8.05	UD	8.05	41.3	ug/m3
75-01-4	Vinyl Chloride	0.56	1.43	UD	1.43	3.07	ug/m3
74-83-9	Bromomethane	5.60	21.7	UD	21.7	77.7	ug/m3
75-00-3	Chloroethane	6.80	17.9	UD	17.9	52.8	ug/m3
109-99-9	Tetrahydrofuran	5.20	15.3	UD	15.3	59.0	ug/m3
75-69-4	Trichlorofluoromethane	6.40	36.0	UD	36.0	112	ug/m3
76-13-1	1,1,2-Trichlorotrifluoroethane	6.40	49.0	UD	49.0	153	ug/m3
76-14-2	Dichlorotetrafluoroethane	3.50	24.5	UD	24.5	140	ug/m3
75-65-0	tert-Butyl alcohol	7.60	23.0	UD	23.0	60.6	ug/m3
142-82-5	Heptane	4.40	18.0	UD	18.0	82.0	ug/m3
75-35-4	1,1-Dichloroethene	5.60	22.2	UD	22.2	79.3	ug/m3
67-64-1	Acetone	42.5	101	D	22.8	47.5	ug/m3
75-15-0	Carbon Disulfide	6.40	19.9	UD	19.9	62.3	ug/m3
1634-04-4	Methyl tert-Butyl Ether	4.80	17.3	UD	17.3	72.1	ug/m3
75-09-2	Methylene Chloride	7.60	26.4	UD	26.4	69.5	ug/m3
156-60-5	trans-1,2-Dichloroethene	7.60	30.1	UD	30.1	79.3	ug/m3
75-34-3	1,1-Dichloroethane	5.20	21.1	UD	21.1	81.0	ug/m3
110-82-7	Cyclohexane	8.80	30.3	UD	30.3	68.8	ug/m3
78-93-3	2-Butanone	4.80	14.2	UD	14.2	59.0	ug/m3
56-23-5	Carbon Tetrachloride	0.44	2.77	UD	2.77	7.55	ug/m3
156-59-2	cis-1,2-Dichloroethene	3.60	14.3	UD	14.3	79.3	ug/m3
67-66-3	Chloroform	480	2340	D	16.1	97.7	ug/m3
71-55-6	1,1,1-Trichloroethane	0.38	2.07	UD	2.07	6.55	ug/m3
540-84-1	2,2,4-Trimethylpentane	4.00	18.7	UD	18.7	93.4	ug/m3
71-43-2	Benzene	3.50	11.2	UD	11.2	63.9	ug/m3
107-06-2	1,2-Dichloroethane	3.60	14.6	UD	14.6	81.0	ug/m3
79-01-6	Trichloroethene	0.68	3.65	UD	3.65	6.45	ug/m3
78-87-5	1,2-Dichloropropane	4.40	20.3	UD	20.3	92.4	ug/m3
75-27-4	Bromodichloromethane	3.10	20.8	UD	20.8	134	ug/m3
108-10-1	4-Methyl-2-Pentanone	3.70	15.2	UD	15.2	82.0	ug/m3
108-88-3	Toluene	4.40	16.6	UD	16.6	75.4	ug/m3
10061-02-6	t-1,3-Dichloropropene	2.40	10.9	UD	10.9	90.8	ug/m3
10061-01-5	cis-1,3-Dichloropropene	2.60	11.8	UD	11.8	90.8	ug/m3
79-00-5	1,1,2-Trichloroethane	2.80	15.3	UD	15.3	109	ug/m3

Report of Analysis

Client:	Woodard & Curran	Date Collected:	04/01/25
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	04/03/25
Client Sample ID:	SSSG-B10-4-04012025DL2	SDG No.:	Q1725
Lab Sample ID:	Q1725-02DL2	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042243.D	40		04/07/25 21:38	VL040725

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
124-48-1	Dibromochloromethane	2.60	22.1	UD	22.1	170	ug/m3
106-93-4	1,2-Dibromoethane	2.90	22.3	UD	22.3	30.7	ug/m3
127-18-4	Tetrachloroethene	0.60	4.07	UD	4.07	8.14	ug/m3
108-90-7	Chlorobenzene	3.00	13.8	UD	13.8	92.1	ug/m3
100-41-4	Ethyl Benzene	4.80	20.9	UD	20.9	86.9	ug/m3
179601-23-1	m/p-Xylene	8.40	36.5	UD	36.5	174	ug/m3
95-47-6	o-Xylene	4.80	20.9	UD	20.9	86.9	ug/m3
100-42-5	Styrene	4.40	18.7	UD	18.7	85.2	ug/m3
75-25-2	Bromoform	2.30	23.8	UD	23.8	207	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	0.44	3.02	UD	3.02	8.24	ug/m3
95-49-8	2-Chlorotoluene	4.40	22.8	UD	22.8	104	ug/m3
108-67-8	1,3,5-Trimethylbenzene	4.40	21.6	UD	21.6	98.3	ug/m3
95-63-6	1,2,4-Trimethylbenzene	3.10	15.2	UD	15.2	98.3	ug/m3
541-73-1	1,3-Dichlorobenzene	3.20	19.2	UD	19.2	120	ug/m3
106-46-7	1,4-Dichlorobenzene	2.10	12.6	UD	12.6	120	ug/m3
95-50-1	1,2-Dichlorobenzene	3.00	18.0	UD	18.0	120	ug/m3
120-82-1	1,2,4-Trichlorobenzene	3.40	25.2	UD	25.2	148	ug/m3
87-68-3	Hexachloro-1,3-Butadiene	3.40	36.3	UD	36.3	213	ug/m3
106-99-0	1,3-Butadiene	5.20	11.5	UD	11.5	44.3	ug/m3
91-20-3	Naphthalene	3.00	15.7	UD	15.7	21.0	ug/m3
622-96-8	4-Ethyltoluene	4.80	23.6	UD	23.6	98.3	ug/m3
110-54-3	Hexane	4.40	15.5	UD	15.5	70.5	ug/m3
107-05-1	Allyl Chloride	6.00	18.8	UD	18.8	62.6	ug/m3
123-91-1	1,4-Dioxane	8.40	30.3	UD	30.3	72.1	ug/m3
80-62-6	Methyl Methacrylate	3.40	13.9	UD	13.9	81.9	ug/m3
SURROGATES							
460-00-4	1-Bromo-4-Fluorobenzene	9.30			70 (65) - 130 (135)	93%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	197000		2.81			
540-36-3	1,4-Difluorobenzene	503000		3.988			
3114-55-4	Chlorobenzene-d5	431000		8.911			

Report of Analysis

Client:	Woodard & Curran	Date Collected:	04/01/25
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	04/03/25
Client Sample ID:	SSSG-B10-4-04012025DL2	SDG No.:	Q1725
Lab Sample ID:	Q1725-02DL2	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042243.D	40		04/07/25 21:38	VL040725

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units

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\VL040725\
 Data File : VL042243.D
 Acq On : 07 Apr 2025 21:38
 Operator : SY/MD
 Sample : Q1725-02DL2 40X
 Misc : 400mL/MSVOA_L
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SSSG-B10-4-04012025DL2

Quant Time: Apr 08 01:36:39 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 2025
 QLast Update : Fri Mar 28 02:00:52 2025
 Response via : Initial Calibration

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 04/08/2025
 Supervised By : Mahesh Dadoda 04/09/2025

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

Internal Standards						
1) Bromochloromethane	2.810	49	196689	10.000	ppbv	0.03
33) 1,4-Difluorobenzene	3.988	114	503068	10.000	ppbv	0.04
55) Chlorobenzene-d5	8.911	117	430861	10.000	ppbv	0.04
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.399	95	329790	9.321	ppbv	0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	93.200%
Target Compounds						
					Qvalue	
13) Ethanol	1.735	45	5256m	4.089	ppbv	
15) Acetone	1.848	43	29249	1.063	ppbv	95
19) Isopropyl Alcohol	1.900	45	12074	0.778	ppbv #	35
29) Chloroform	2.871	83	482007	11.943	ppbv	99

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

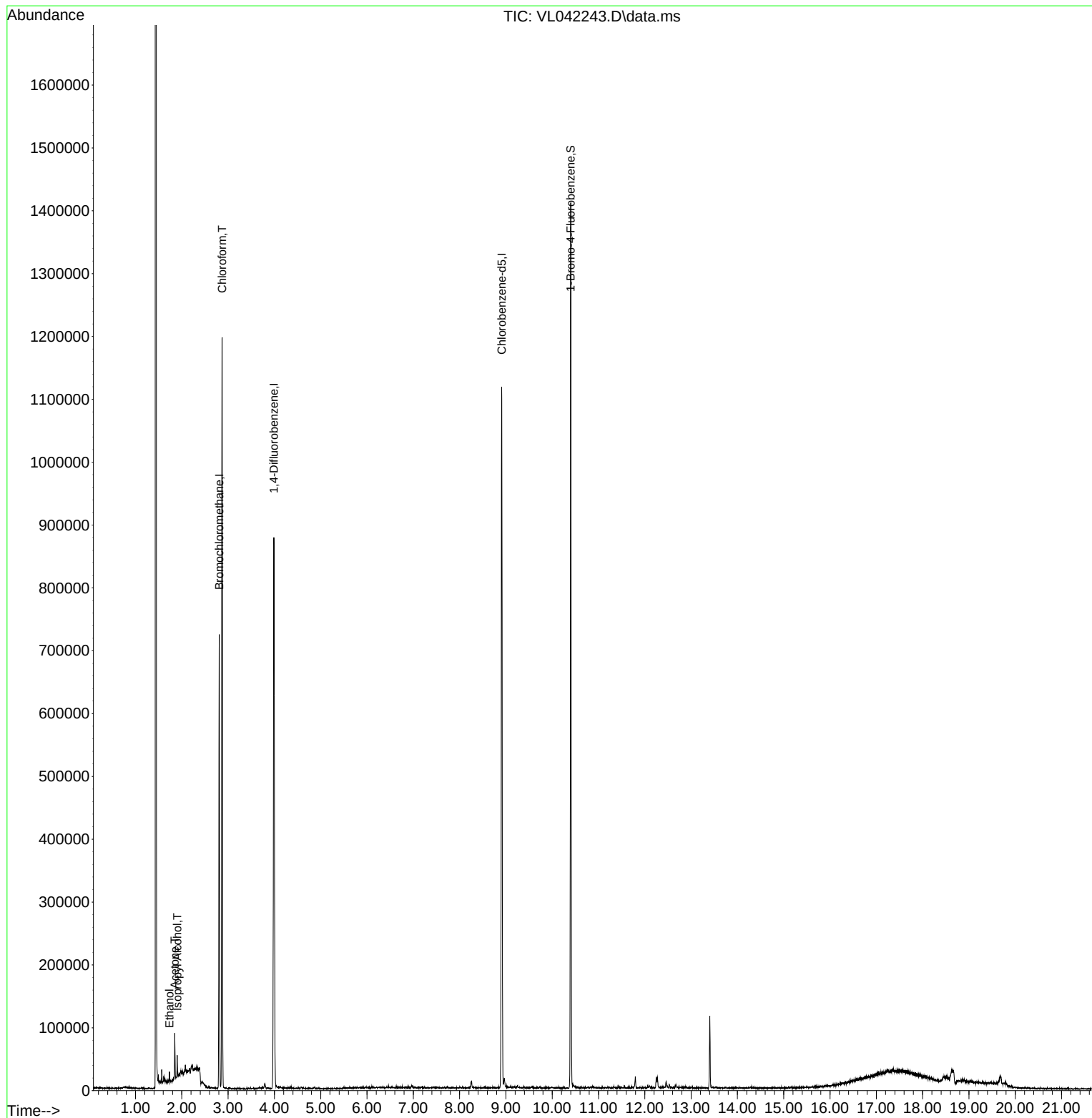
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Acq On : 07 Apr 2025 21:38
Operator : SY/MD
Sample : Q1725-02DL2 40X
Misc : 400mL/MSVOA_L
ALS Vial : 12 Sample Multiplier: 1

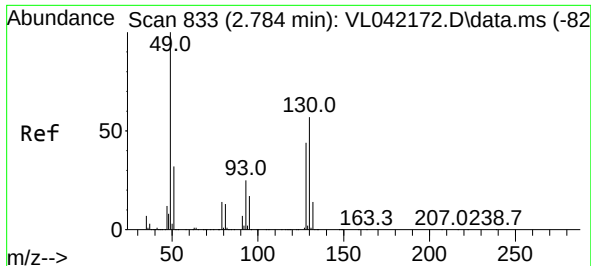
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MSVOA_L
ClientSampleId :
SSSG-B10-4-04012025DL2

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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Fri Mar 28 02:00:52 2025
Response via : Initial Calibration

Manual Integrations
APPROVED

Reviewed By : Semsettin Yesilyurt 04/08/2025
Supervised By : Mahesh Dadoda 04/09/2025





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 2.810 min Scan# 841

Delta R.T. 0.026 min

Lab File: VL042243.D

Acq: 07 Apr 2025 21:38

Instrument :

MSVOA_L

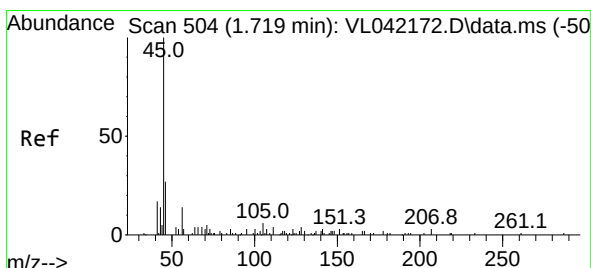
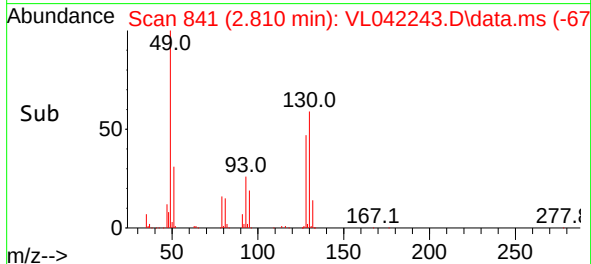
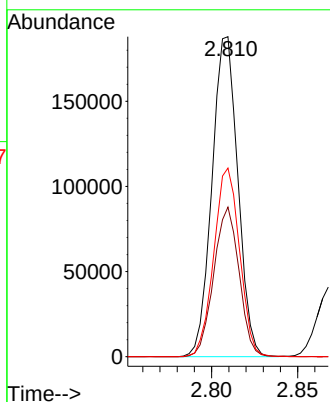
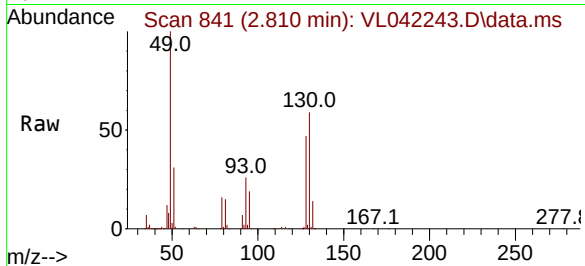
ClientSampleId :

SSSG-B10-4-04012025DL2

Tgt Ion: 49 Resp: 196689
 Ion Ratio Lower Upper
 49 100
 128 45.7 22.9 68.5
 130 58.7 28.8 86.4

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 04/08/2025
 Supervised By :Mahesh Dadoda 04/09/2025



#13

Ethanol

Concen: 4.089 ppbv m

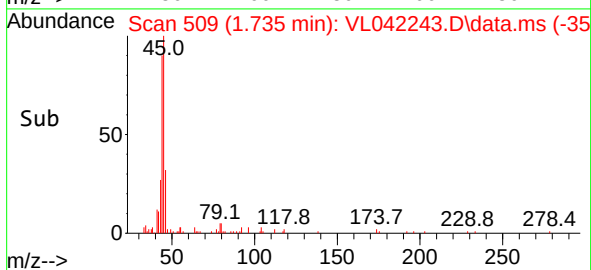
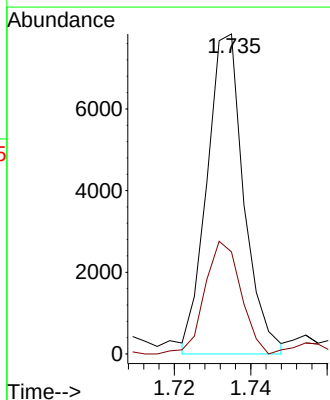
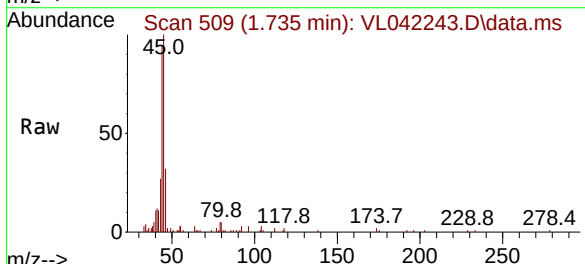
RT: 1.735 min Scan# 509

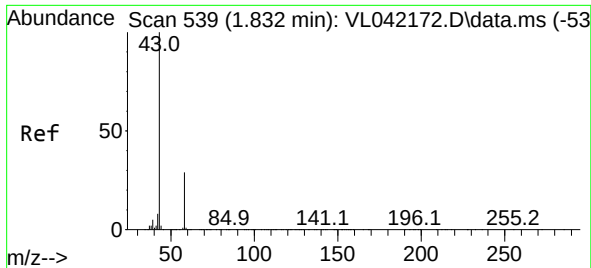
Delta R.T. 0.016 min

Lab File: VL042243.D

Acq: 07 Apr 2025 21:38

Tgt Ion: 45 Resp: 5256
 Ion Ratio Lower Upper
 45 100
 46 0.0 20.2 80.8#





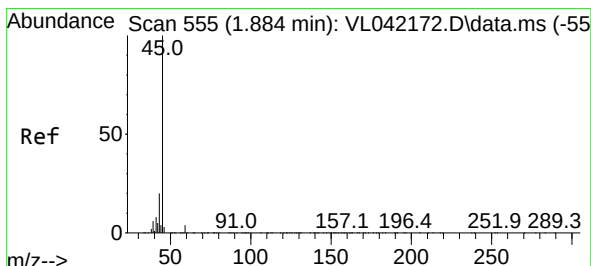
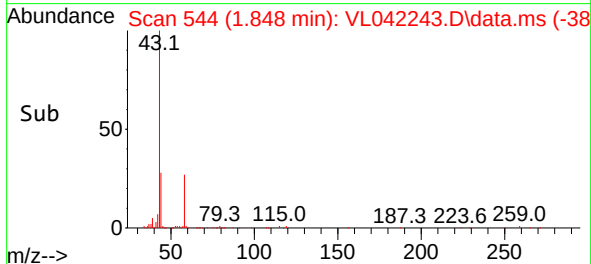
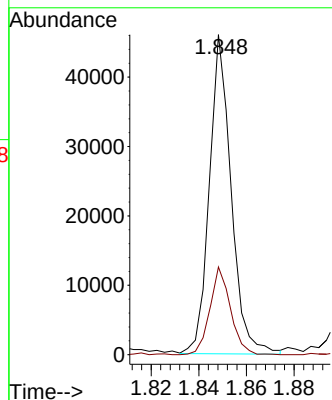
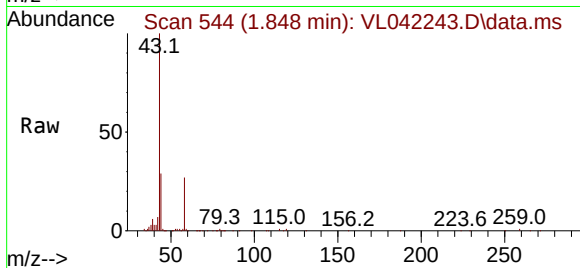
#15
Acetone
Concen: 1.063 ppbv
RT: 1.848 min Scan# 54
Delta R.T. 0.016 min
Lab File: VL042243.D
Acq: 07 Apr 2025 21:38

Instrument :
MSVOA_L
ClientSampleId :
SSSG-B10-4-04012025DL2

Tgt Ion: 43 Resp: 29249
Ion Ratio Lower Upper
43 100
58 26.1 23.2 34.8

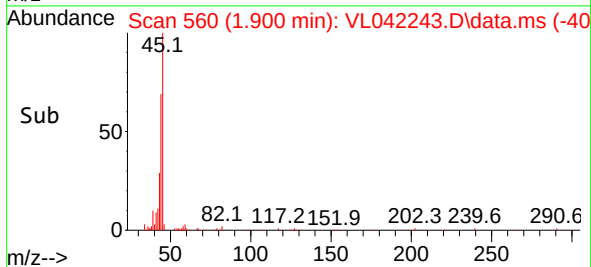
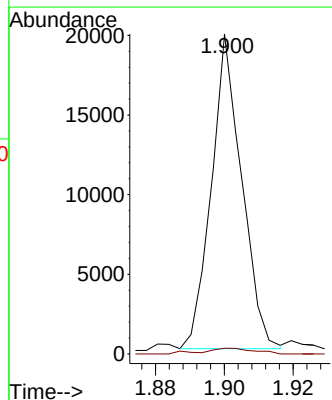
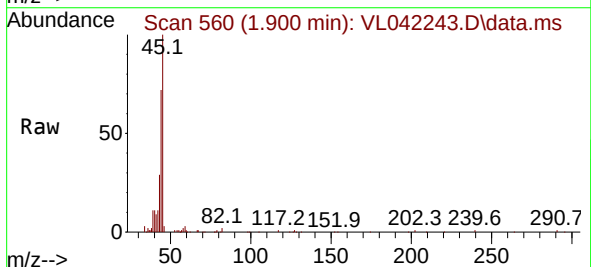
Manual Integrations
APPROVED

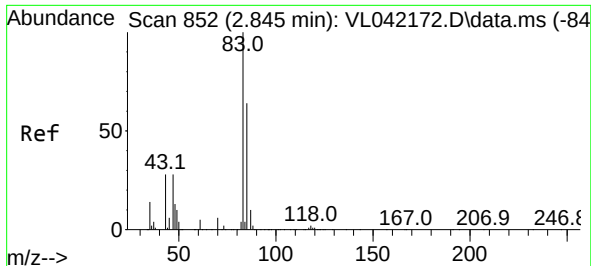
Reviewed By :Semsettin Yesilyurt 04/08/2025
Supervised By :Mahesh Dadoda 04/09/2025



#19
Isopropyl Alcohol
Concen: 0.778 ppbv
RT: 1.900 min Scan# 560
Delta R.T. 0.016 min
Lab File: VL042243.D
Acq: 07 Apr 2025 21:38

Tgt Ion: 45 Resp: 12074
Ion Ratio Lower Upper
45 100
58 3.0 36.9 55.3#





#29

Chloroform

Concen: 11.943 ppbv

RT: 2.871 min Scan# 80

Delta R.T. 0.026 min

Lab File: VL042243.D

Acq: 07 Apr 2025 21:38

Instrument :

MSVOA_L

ClientSampleId :

SSSG-B10-4-04012025DL2

Tgt Ion: 83 Resp: 48200

Ion Ratio Lower Upper

83 100

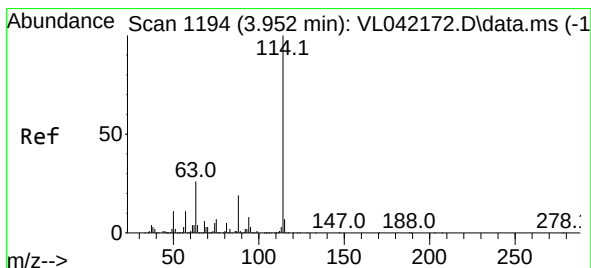
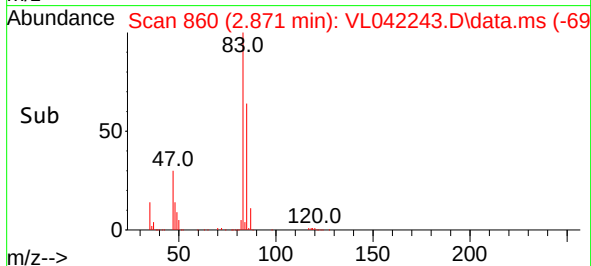
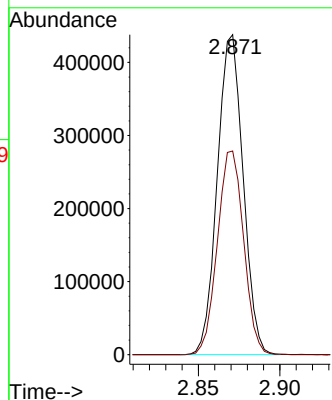
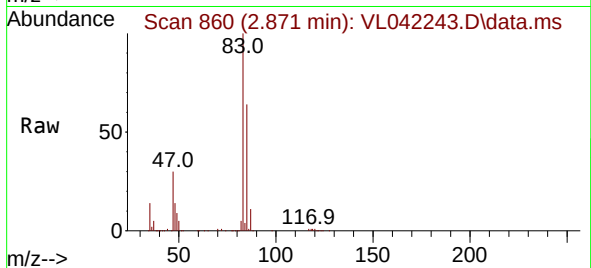
85 63.7 51.4 77.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/08/2025

Supervised By :Mahesh Dadoda 04/09/2025



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.988 min Scan# 1205

Delta R.T. 0.035 min

Lab File: VL042243.D

Acq: 07 Apr 2025 21:38

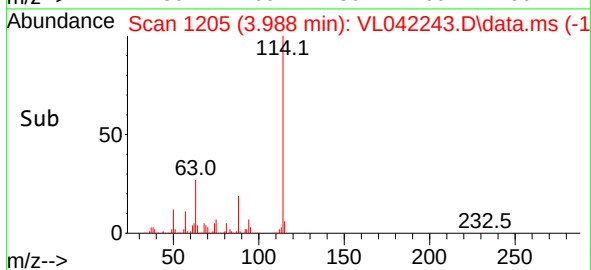
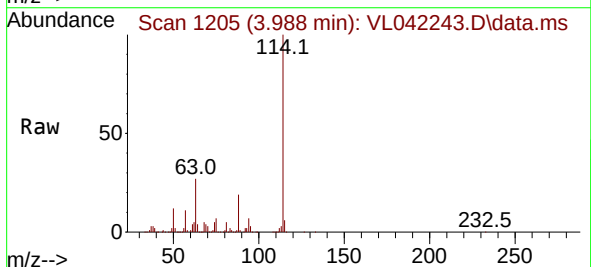
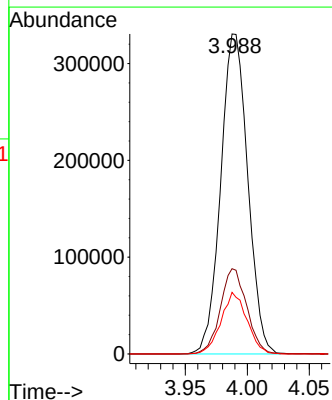
Tgt Ion:114 Resp: 503068

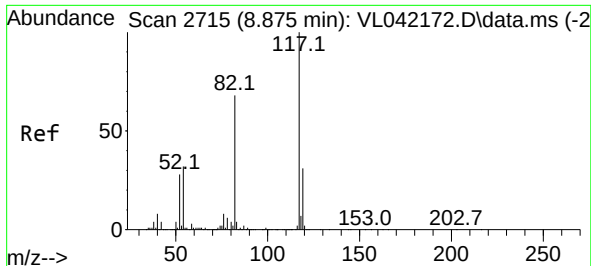
Ion Ratio Lower Upper

114 100

63 26.0 20.7 31.1

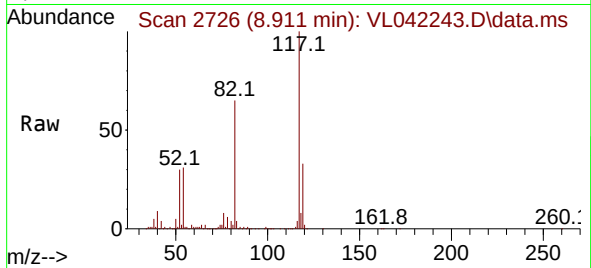
88 18.5 15.0 22.4





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.911 min Scan# 21
Delta R.T. 0.035 min
Lab File: VL042243.D
Acq: 07 Apr 2025 21:38

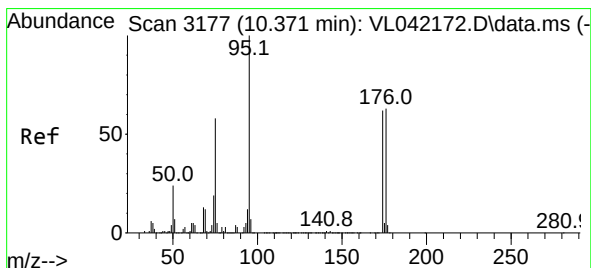
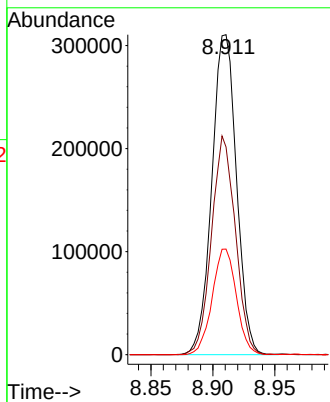
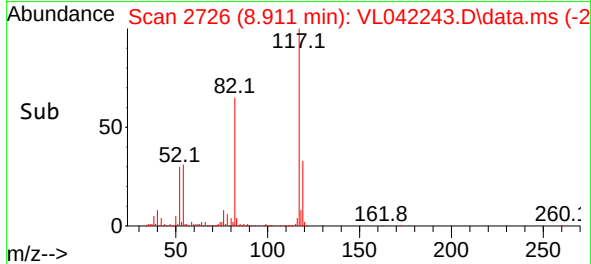
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B10-4-04012025DL2



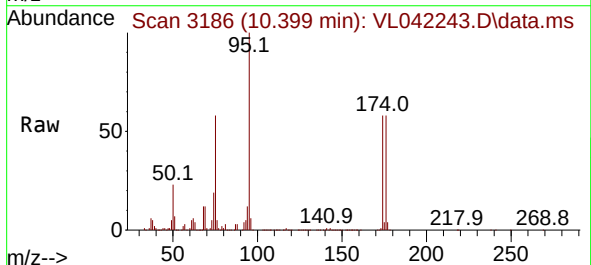
Tgt Ion: 117 Resp: 43086
Ion Ratio Lower Upper
117 100
82 66.3 55.8 83.6
119 32.6 25.5 38.3

Manual Integrations
APPROVED

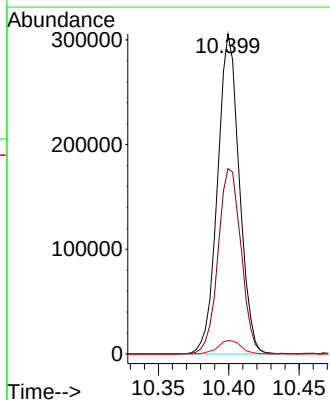
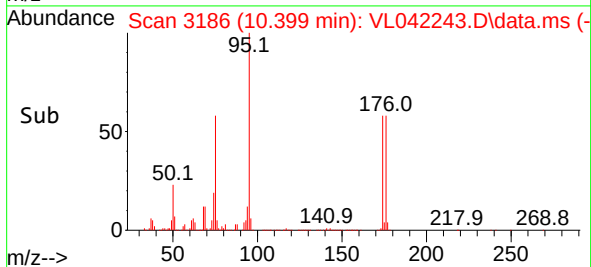
Reviewed By :Semsettin Yesilyurt 04/08/2025
Supervised By :Mahesh Dadoda 04/09/2025



#68
1-Bromo-4-Fluorobenzene
Concen: 9.321 ppbv
RT: 10.399 min Scan# 3186
Delta R.T. 0.029 min
Lab File: VL042243.D
Acq: 07 Apr 2025 21:38



Tgt Ion: 95 Resp: 329790
Ion Ratio Lower Upper
95 100
174 61.3 50.6 76.0
175 4.5 3.8 5.6



Report of Analysis

Client:	Woodard & Curran	Date Collected:	04/01/25
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	04/03/25
Client Sample ID:	SSSG-DUP-2-04012025	SDG No.:	Q1725
Lab Sample ID:	Q1725-03	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042256.D	1		04/08/25 10:55	VL040825

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.37	1.83	J	1.04	2.47	ug/m3
74-87-3	Chloromethane	0.41	0.85	J	0.21	1.03	ug/m3
75-01-4	Vinyl Chloride	0.010	0.030	U	0.030	0.080	ug/m3
74-83-9	Bromomethane	0.14	0.54	U	0.54	1.94	ug/m3
75-00-3	Chloroethane	0.17	0.45	U	0.45	1.32	ug/m3
109-99-9	Tetrahydrofuran	0.13	0.38	U	0.38	1.47	ug/m3
75-69-4	Trichlorofluoromethane	0.20	1.12	J	0.90	2.81	ug/m3
76-13-1	1,1,2-Trichlorotrifluoroethane	0.16	1.23	U	1.23	3.83	ug/m3
76-14-2	Dichlorotetrafluoroethane	0.090	0.63	U	0.63	3.49	ug/m3
75-65-0	tert-Butyl alcohol	0.19	0.58	U	0.58	1.52	ug/m3
142-82-5	Heptane	0.11	0.45	U	0.45	2.05	ug/m3
75-35-4	1,1-Dichloroethene	0.14	0.56	U	0.56	1.98	ug/m3
67-64-1	Acetone	38.5	91.5	E	0.57	1.19	ug/m3
75-15-0	Carbon Disulfide	0.16	0.50	U	0.50	1.56	ug/m3
1634-04-4	Methyl tert-Butyl Ether	0.12	0.43	U	0.43	1.80	ug/m3
75-09-2	Methylene Chloride	0.63	2.19		0.66	1.74	ug/m3
156-60-5	trans-1,2-Dichloroethene	0.19	0.75	U	0.75	1.98	ug/m3
75-34-3	1,1-Dichloroethane	0.13	0.53	U	0.53	2.02	ug/m3
110-82-7	Cyclohexane	0.22	0.76	U	0.76	1.72	ug/m3
78-93-3	2-Butanone	0.44	1.30	J	0.35	1.47	ug/m3
56-23-5	Carbon Tetrachloride	0.080	0.50		0.060	0.19	ug/m3
156-59-2	cis-1,2-Dichloroethene	0.090	0.36	U	0.36	1.98	ug/m3
67-66-3	Chloroform	0.39	1.90	J	0.39	2.44	ug/m3
71-55-6	1,1,1-Trichloroethane	0.010	0.050	U	0.050	0.16	ug/m3
540-84-1	2,2,4-Trimethylpentane	0.10	0.47	U	0.47	2.34	ug/m3
71-43-2	Benzene	0.16	0.51	J	0.29	1.60	ug/m3
107-06-2	1,2-Dichloroethane	0.090	0.36	U	0.36	2.02	ug/m3
79-01-6	Trichloroethene	0.050	0.27		0.11	0.16	ug/m3
78-87-5	1,2-Dichloropropane	0.11	0.51	U	0.51	2.31	ug/m3
75-27-4	Bromodichloromethane	0.080	0.54	U	0.54	3.35	ug/m3
108-10-1	4-Methyl-2-Pentanone	0.090	0.37	U	0.37	2.05	ug/m3
108-88-3	Toluene	0.72	2.71		0.41	1.88	ug/m3
10061-02-6	t-1,3-Dichloropropene	0.060	0.27	U	0.27	2.27	ug/m3
10061-01-5	cis-1,3-Dichloropropene	0.060	0.27	U	0.27	2.27	ug/m3
79-00-5	1,1,2-Trichloroethane	0.070	0.38	U	0.38	2.73	ug/m3

Report of Analysis

Client:	Woodard & Curran	Date Collected:	04/01/25
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	04/03/25
Client Sample ID:	SSSG-DUP-2-04012025	SDG No.:	Q1725
Lab Sample ID:	Q1725-03	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042256.D	1		04/08/25 10:55	VL040825

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
124-48-1	Dibromochloromethane	0.070	0.60	U	0.60	4.26	ug/m3
106-93-4	1,2-Dibromoethane	0.070	0.54	U	0.54	0.77	ug/m3
127-18-4	Tetrachloroethene	0.080	0.54		0.14	0.20	ug/m3
108-90-7	Chlorobenzene	0.080	0.37	U	0.37	2.30	ug/m3
100-41-4	Ethyl Benzene	1.30	5.65		0.52	2.17	ug/m3
179601-23-1	m/p-Xylene	6.30	27.4		0.91	4.34	ug/m3
95-47-6	o-Xylene	1.20	5.21		0.52	2.17	ug/m3
100-42-5	Styrene	0.35	1.49	J	0.47	2.13	ug/m3
75-25-2	Bromoform	0.060	0.62	U	0.62	5.17	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	0.010	0.070	U	0.070	0.21	ug/m3
95-49-8	2-Chlorotoluene	0.11	0.57	U	0.57	2.59	ug/m3
108-67-8	1,3,5-Trimethylbenzene	0.13	0.64	J	0.54	2.46	ug/m3
95-63-6	1,2,4-Trimethylbenzene	0.36	1.77	J	0.39	2.46	ug/m3
541-73-1	1,3-Dichlorobenzene	0.080	0.48	U	0.48	3.01	ug/m3
106-46-7	1,4-Dichlorobenzene	0.050	0.30	U	0.30	3.01	ug/m3
95-50-1	1,2-Dichlorobenzene	0.080	0.48	U	0.48	3.01	ug/m3
120-82-1	1,2,4-Trichlorobenzene	0.090	0.67	U	0.67	3.71	ug/m3
87-68-3	Hexachloro-1,3-Butadiene	0.090	0.96	U	0.96	5.33	ug/m3
106-99-0	1,3-Butadiene	0.13	0.29	U	0.29	1.11	ug/m3
91-20-3	Naphthalene	0.080	0.42	U	0.42	0.52	ug/m3
622-96-8	4-Ethyltoluene	0.12	0.59	U	0.59	2.46	ug/m3
110-54-3	Hexane	0.28	0.99	J	0.39	1.76	ug/m3
107-05-1	Allyl Chloride	0.15	0.47	U	0.47	1.57	ug/m3
123-91-1	1,4-Dioxane	0.21	0.76	U	0.76	1.80	ug/m3
80-62-6	Methyl Methacrylate	0.090	0.37	U	0.37	2.05	ug/m3

SURROGATES

460-00-4	1-Bromo-4-Fluorobenzene	10.0		70 (65) - 130 (135)	100%	SPK: 10

INTERNAL STANDARDS

74-97-5	Bromochloromethane	197000	2.803
540-36-3	1,4-Difluorobenzene	511000	3.981
3114-55-4	Chlorobenzene-d5	446000	8.904

TENTATIVE IDENTIFIED COMPOUNDS

75-45-6	Chlorodifluoromethane	0.34	J	1.48	ppbv
115-07-1	Propene	0.40	J	1.50	ppbv
64-17-5	Ethanol	12.9	J	1.73	ppbv

Report of Analysis

Client:	Woodard & Curran	Date Collected:	04/01/25
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	04/03/25
Client Sample ID:	SSSG-DUP-2-04012025	SDG No.:	Q1725
Lab Sample ID:	Q1725-03	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042256.D	1		04/08/25 10:55	VL040825

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
67-63-0	Isopropyl Alcohol	110		J		1.89	ppbv
007452-79-1	Butanoic acid, 2-methyl-, ethyl es	2.30		J		9.17	ppbv
005989-27-5	D-Limonene	2.20		J		12.1	ppbv
017302-32-8	Nonane, 3,7-dimethyl-	1.80		J		12.2	ppbv
	unknown12.267	1.30		J		12.3	ppbv
001120-21-4	Undecane	2.00		J		12.5	ppbv
1000368-55-3	2-Hexyldecyl isobutyrate	1.10		J		12.7	ppbv

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\VL040825\
 Data File : VL042256.D
 Acq On : 08 Apr 2025 10:55
 Operator : SY/MD
 Sample : Q1725-03
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SSSG-DUP-2-04012025

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 04/09/2025
 Supervised By :Mahesh Dadoda 04/09/2025

Quant Time: Apr 09 01:52:47 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M

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

QLast Update : Fri Mar 28 02:00:52 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.803	49	196935	10.000	ppbv	0.02
33) 1,4-Difluorobenzene	3.981	114	510940	10.000	ppbv	0.03
55) Chlorobenzene-d5	8.904	117	446395	10.000	ppbv	0.03
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.393	95	365114	9.960	ppbv	0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.600%
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.505	85	10848	0.373	ppbv	92
3) Chlorodifluoromethane	1.482	51	10080m	0.339	ppbv	
4) Chloromethane	1.537	50	4839	0.407	ppbv #	81
9) Propene	1.495	41	5396m	0.396	ppbv	
11) Trichlorofluoromethane	1.887	101	5679	0.201	ppbv	97
13) Ethanol	1.728	45	16623m	12.915	ppbv	
15) Acetone	1.842	43	1059776	38.478	ppbv	100
19) Isopropyl Alcohol	1.894	45	1694950	109.070	ppbv #	32
20) Methylene Chloride	2.072	84	6489	0.633	ppbv #	74
26) Hexane	2.839	57	7856	0.285	ppbv #	37
29) Chloroform	2.861	83	15580	0.386	ppbv	96
34) 2-Butanone	2.573	43	16376	0.442	ppbv	99
35) Carbon Tetrachloride	3.790	117	3123m	0.078	ppbv	
36) Benzene	3.680	78	8061	0.159	ppbv	95
38) Trichloroethene	4.586	130	973m	0.046	ppbv	
52) Tetrachloroethene	8.254	164	1610m	0.080	ppbv	
53) Toluene	6.962	91	42966	0.716	ppbv	96
58) Ethyl Benzene	9.377	91	106361	1.341	ppbv	96
59) m/p-Xylene	9.551	91	400289	6.322	ppbv	98
60) o-Xylene	9.985	91	78832	1.242	ppbv	99
61) Styrene	9.888	104	11084	0.353	ppbv	94
72) 4-Ethyltoluene	11.141	105	8715	0.110	ppbv #	55
73) 1,3,5-Trimethylbenzene	11.218	105	8928	0.129	ppbv	86
74) 1,2,4-Trimethylbenzene	11.552	105	28863	0.363	ppbv #	65

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

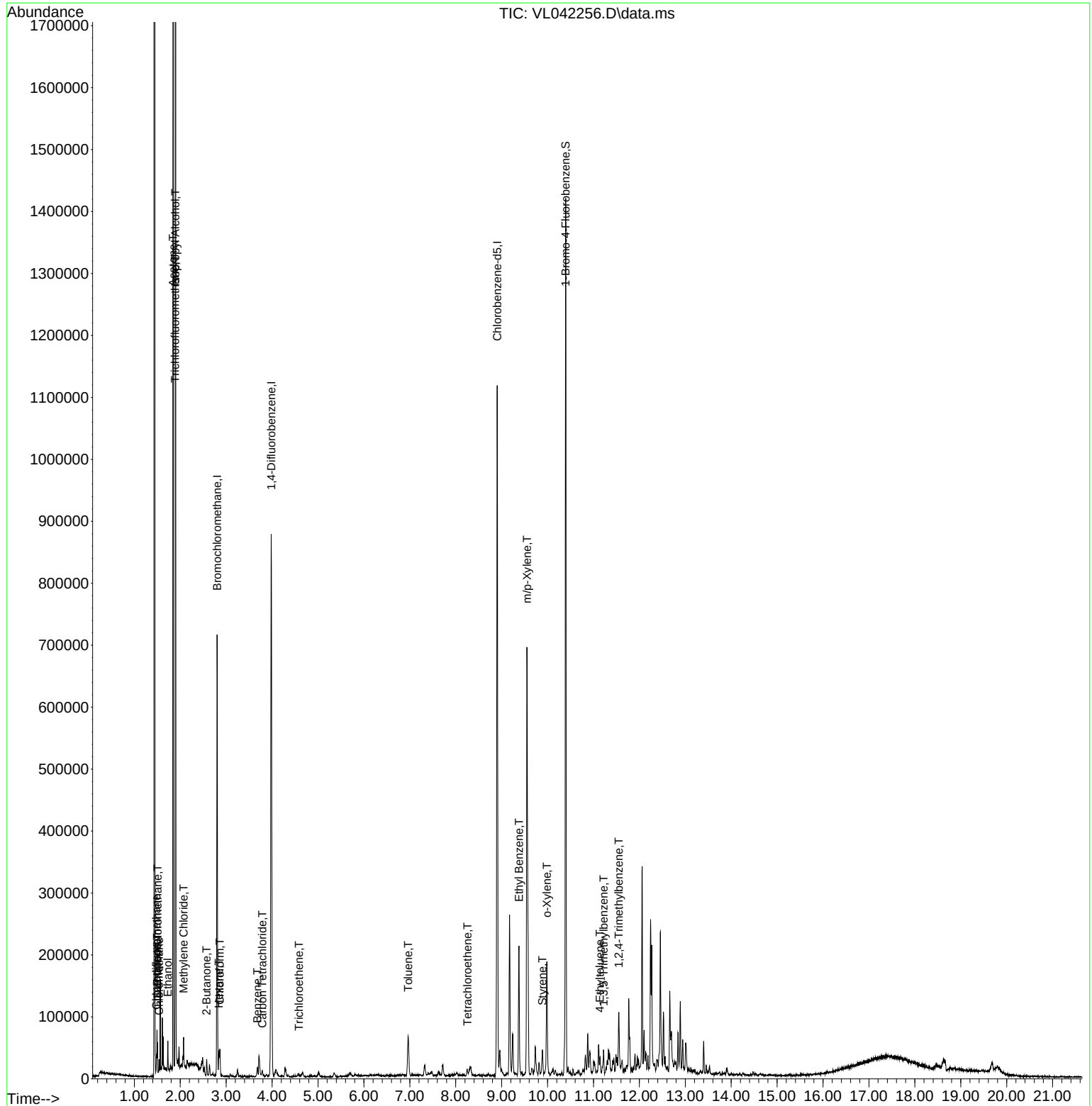
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Data File : VL042256.D
Acq On : 08 Apr 2025 10:55
Operator : SY/MD
Sample : Q1725-03
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

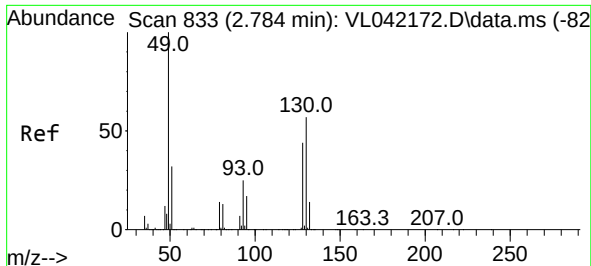
Instrument :
MSVOA_L
ClientSampleId :
SSSG-DUP-2-04012025

Quant Time: Apr 09 01:52:47 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Fri Mar 28 02:00:52 2025
Response via : Initial Calibration

Manual Integrations
APPROVED

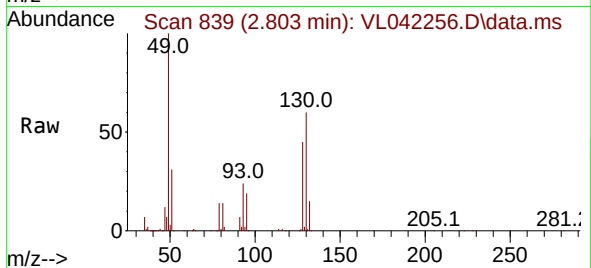
Reviewed By : Semsettin Yesilyurt 04/09/2025
Supervised By : Mahesh Dadoda 04/09/2025





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.803 min Scan# 81
Delta R.T. 0.019 min
Lab File: VL042256.D
Acq: 08 Apr 2025 10:55

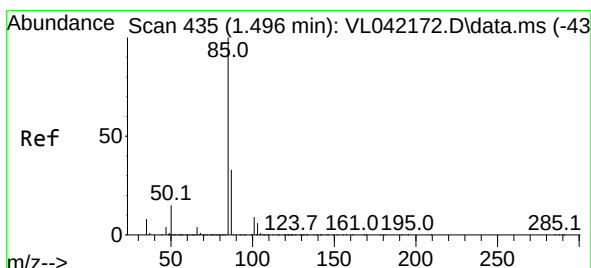
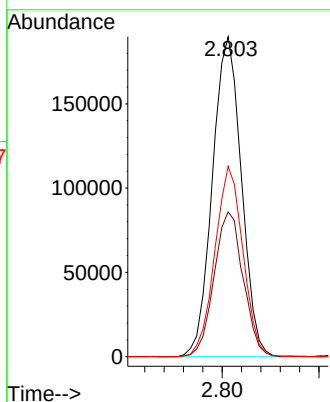
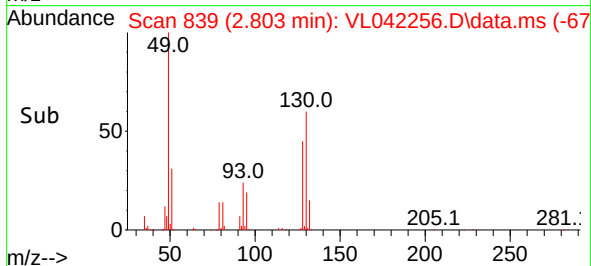
Instrument :
MSVOA_L
ClientSampleId :
SSSG-DUP-2-04012025



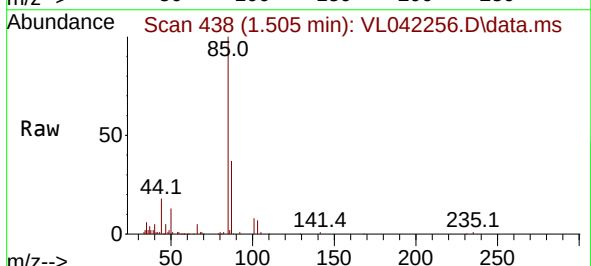
Tgt Ion: 49 Resp: 19693
Ion Ratio Lower Upper
49 100
128 45.6 22.9 68.5
130 57.9 28.8 86.4

Manual Integrations
APPROVED

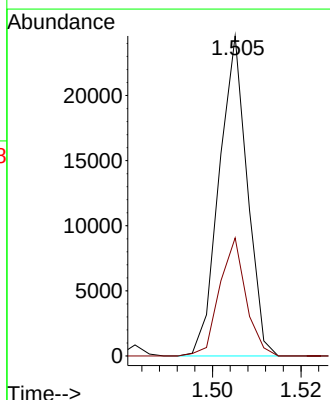
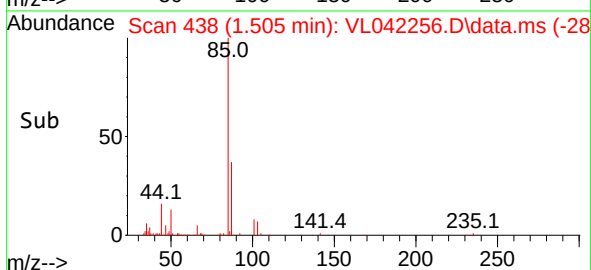
Reviewed By :Semsettin Yesilyurt 04/09/2025
Supervised By :Mahesh Dadoda 04/09/2025

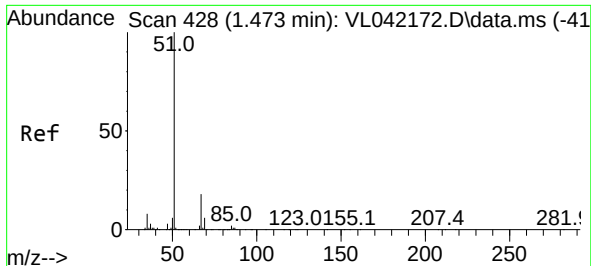


#2
Dichlorodifluoromethane
Concen: 0.373 ppbv
RT: 1.505 min Scan# 438
Delta R.T. 0.009 min
Lab File: VL042256.D
Acq: 08 Apr 2025 10:55



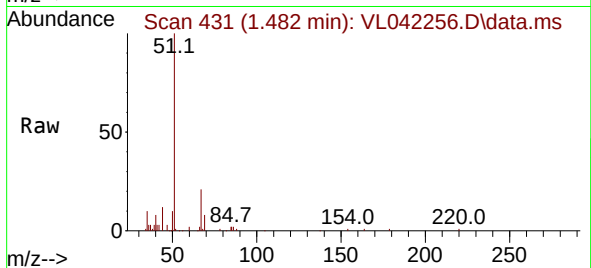
Tgt Ion: 85 Resp: 10848
Ion Ratio Lower Upper
85 100
87 36.9 26.1 39.1





#3
Chlorodifluoromethane
Concen: 0.339 ppbv m
RT: 1.482 min Scan# 41
Delta R.T. 0.009 min
Lab File: VL042256.D
Acq: 08 Apr 2025 10:55

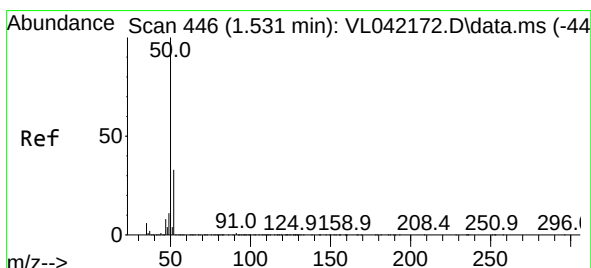
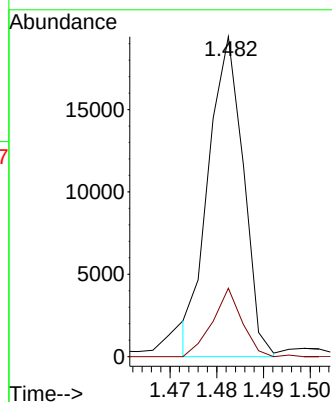
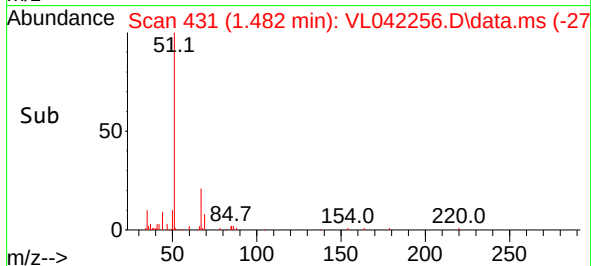
Instrument :
MSVOA_L
ClientSampleId :
SSSG-DUP-2-04012025



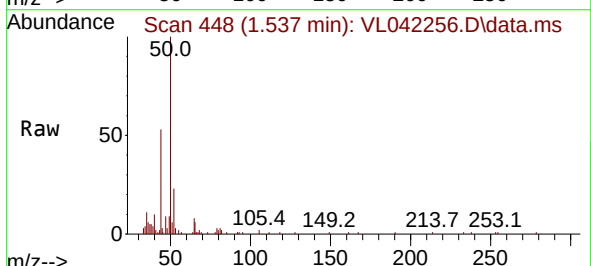
Tgt Ion: 51 Resp: 10080
Ion Ratio Lower Upper
51 100
67 18.9 15.0 22.6

Manual Integrations
APPROVED

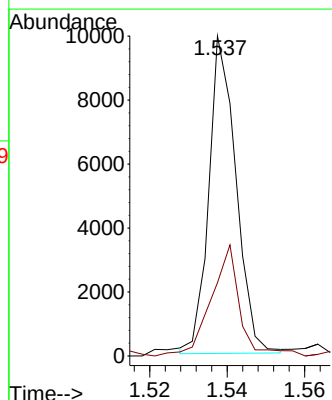
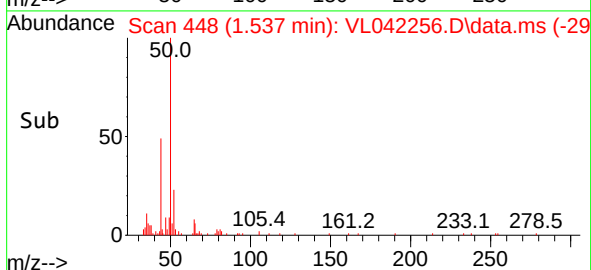
Reviewed By :Semsettin Yesilyurt 04/09/2025
Supervised By :Mahesh Dadoda 04/09/2025

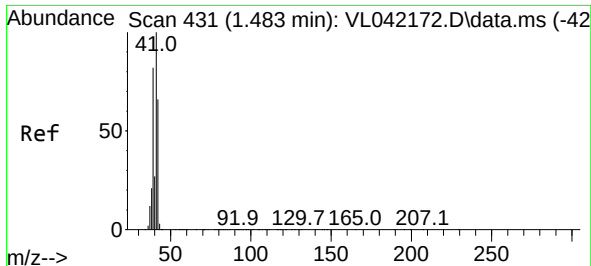


#4
Chloromethane
Concen: 0.407 ppbv
RT: 1.537 min Scan# 448
Delta R.T. 0.006 min
Lab File: VL042256.D
Acq: 08 Apr 2025 10:55



Tgt Ion: 50 Resp: 4839
Ion Ratio Lower Upper
50 100
52 22.1 26.1 39.1#





#9

Propene

Concen: 0.396 ppbv m

RT: 1.495 min Scan# 41

Delta R.T. 0.013 min

Lab File: VL042256.D

Acq: 08 Apr 2025 10:55

Instrument :

MSVOA_L

ClientSampleId :

SSSG-DUP-2-04012025

Tgt Ion: 41 Resp: 5390

Ion Ratio Lower Upper

41 100

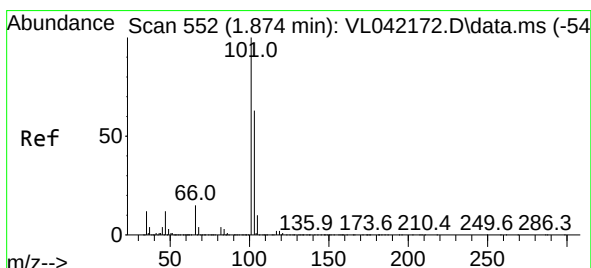
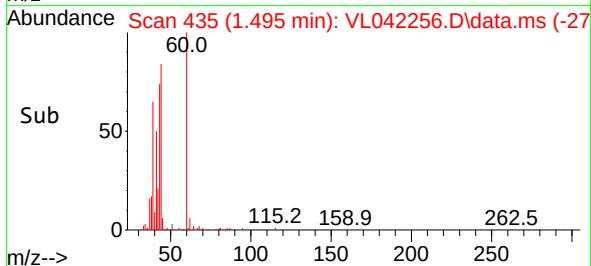
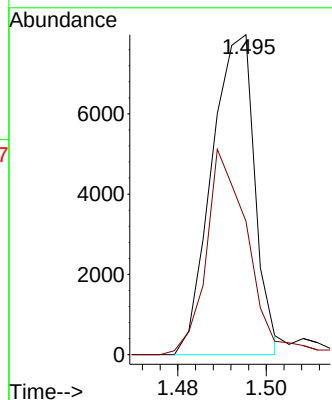
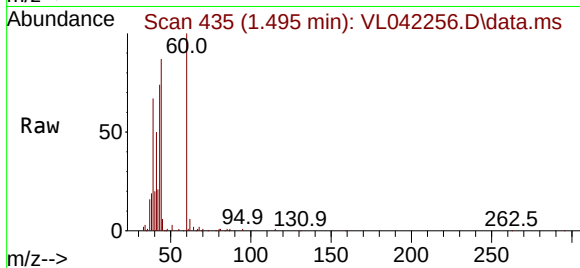
42 2167.2 55.4 83.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/09/2025

Supervised By :Mahesh Dadoda 04/09/2025



#11

Trichlorofluoromethane

Concen: 0.201 ppbv

RT: 1.887 min Scan# 556

Delta R.T. 0.013 min

Lab File: VL042256.D

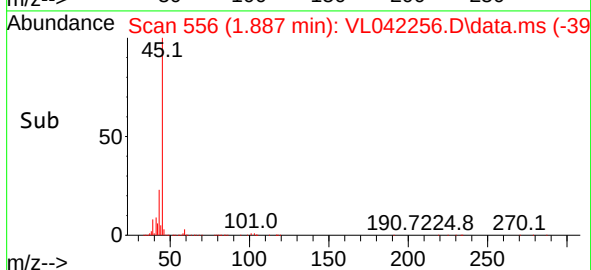
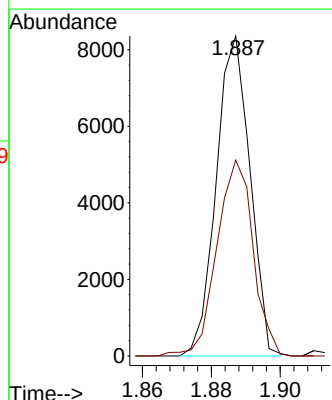
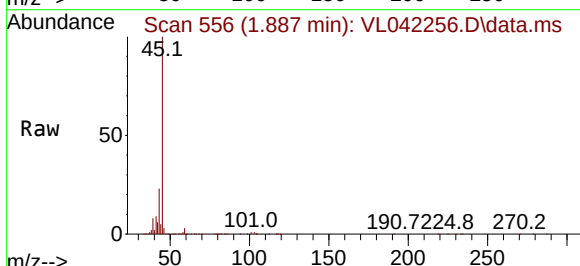
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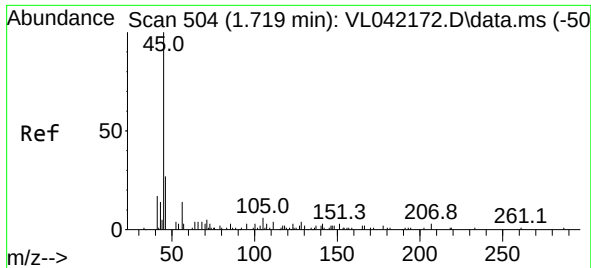
Tgt Ion:101 Resp: 5679

Ion Ratio Lower Upper

101 100

103 60.6 50.2 75.2





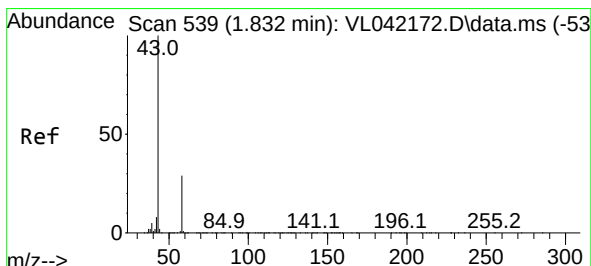
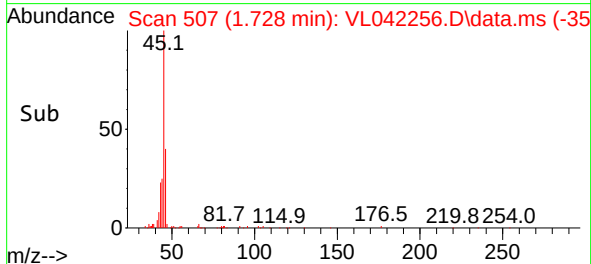
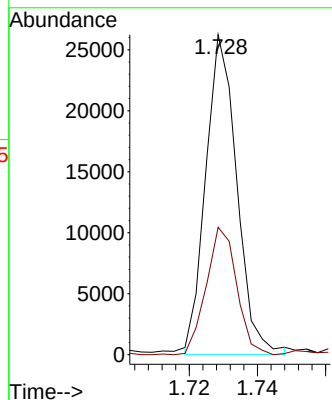
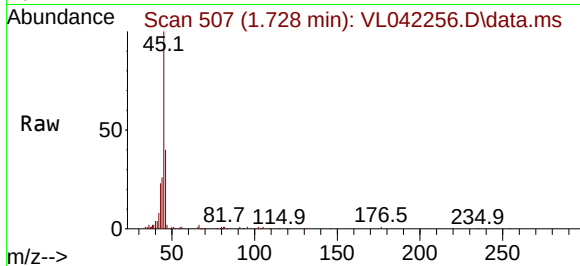
#13
Ethanol
Concen: 12.915 ppbv m
RT: 1.728 min Scan# 504
Delta R.T. 0.009 min
Lab File: VL042256.D
Acq: 08 Apr 2025 10:55

Instrument :
MSVOA_L
ClientSampleId :
SSSG-DUP-2-04012025

Tgt Ion: 45 Resp: 1662
Ion Ratio Lower Upper
45 100
46 308.5 20.2 80.8

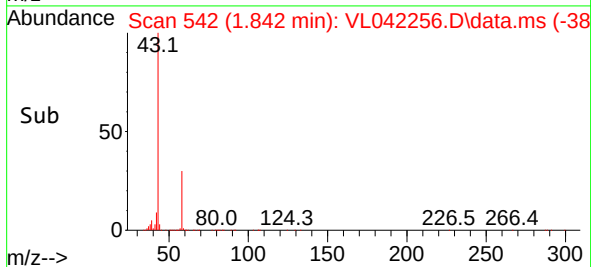
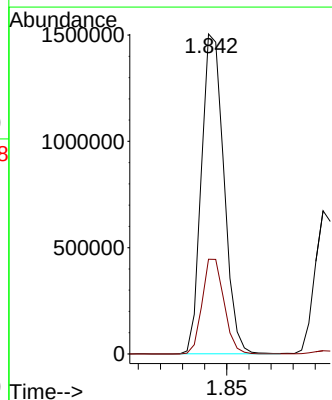
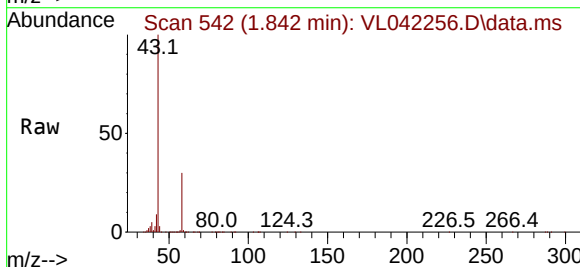
Manual Integrations
APPROVED

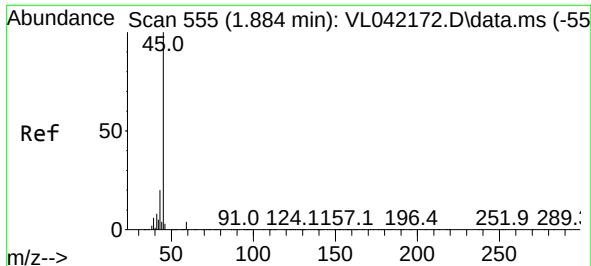
Reviewed By :Semsettin Yesilyurt 04/09/2025
Supervised By :Mahesh Dadoda 04/09/2025



#15
Acetone
Concen: 38.478 ppbv
RT: 1.842 min Scan# 542
Delta R.T. 0.009 min
Lab File: VL042256.D
Acq: 08 Apr 2025 10:55

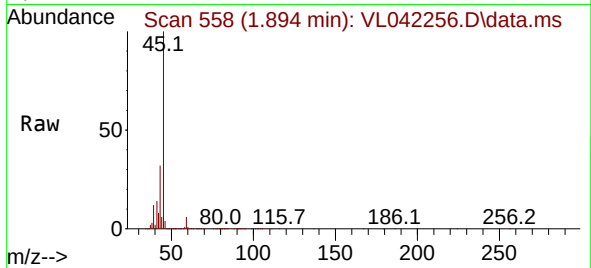
Tgt Ion: 43 Resp: 1059776
Ion Ratio Lower Upper
43 100
58 28.8 23.2 34.8





#19
Isopropyl Alcohol
Concen: 109.070 ppbv
RT: 1.894 min Scan# 511
Delta R.T. 0.009 min
Lab File: VL042256.D
Acq: 08 Apr 2025 10:55

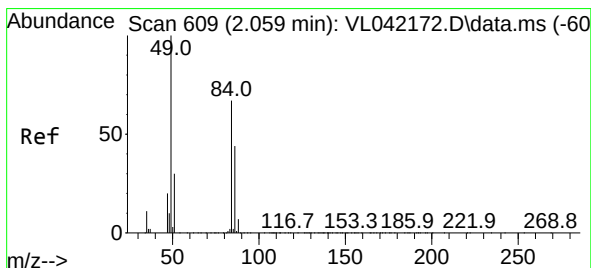
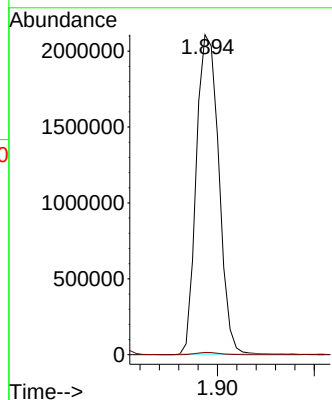
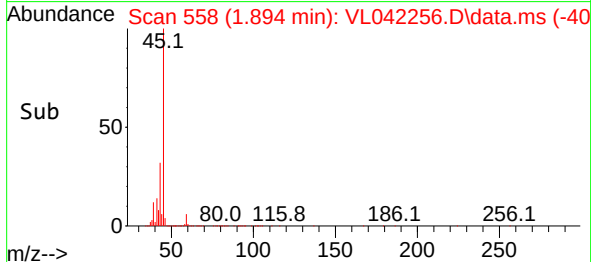
Instrument :
MSVOA_L
ClientSampleId :
SSSG-DUP-2-04012025



Tgt Ion: 45 Resp: 1694950
Ion Ratio Lower Upper
45 100
58 0.8 36.9 55.3

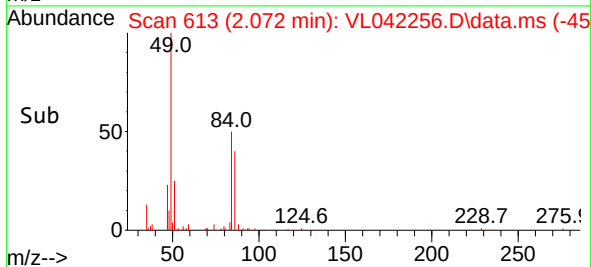
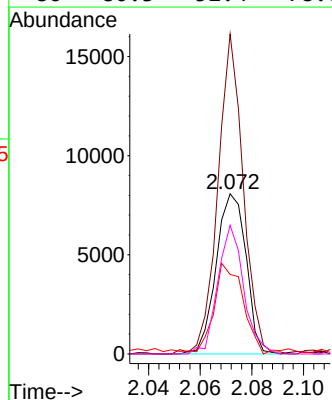
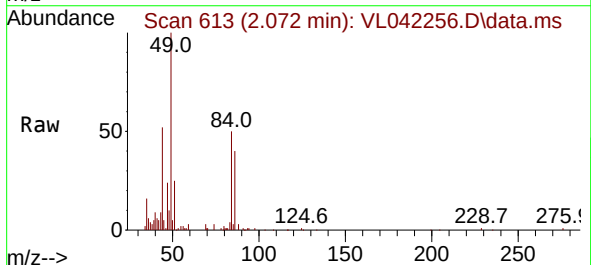
Manual Integrations
APPROVED

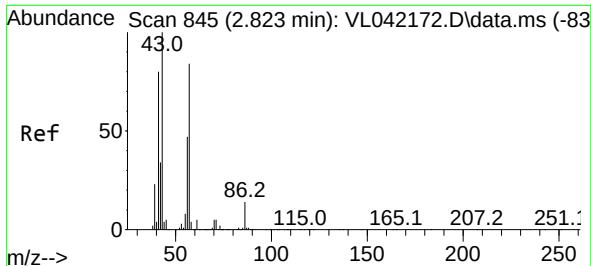
Reviewed By :Semsettin Yesilyurt 04/09/2025
Supervised By :Mahesh Dadoda 04/09/2025



#20
Methylene Chloride
Concen: 0.633 ppbv
RT: 2.072 min Scan# 613
Delta R.T. 0.013 min
Lab File: VL042256.D
Acq: 08 Apr 2025 10:55

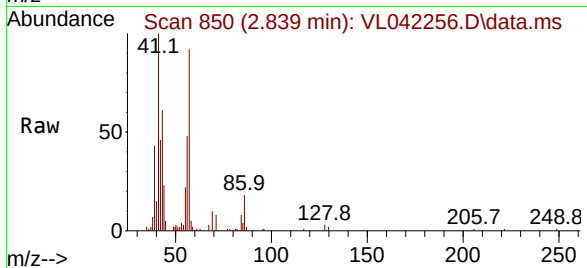
Tgt Ion: 84 Resp: 6489
Ion Ratio Lower Upper
84 100
49 197.4 120.2 180.4#
51 48.0 37.4 56.0
86 80.3 52.4 78.6#





#26
Hexane
Concen: 0.285 ppbv
RT: 2.839 min Scan# 845
Delta R.T. 0.016 min
Lab File: VL042256.D
Acq: 08 Apr 2025 10:55

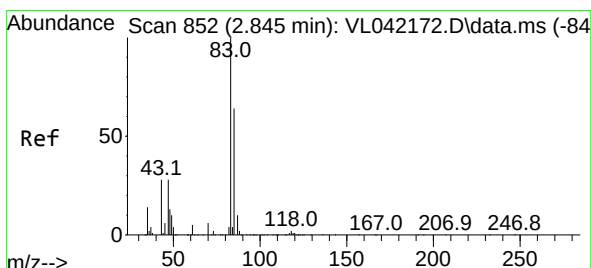
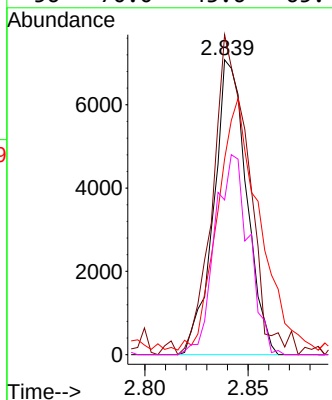
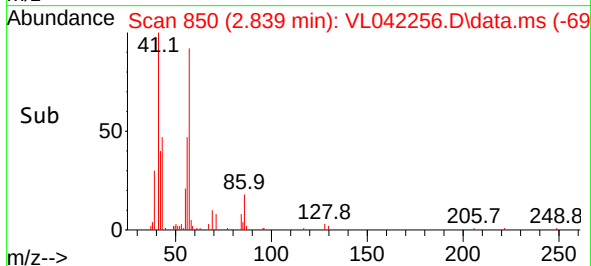
Instrument :
MSVOA_L
ClientSampleId :
SSSG-DUP-2-04012025



Tgt Ion: 57 Resp: 7850
Ion Ratio Lower Upper
57 100
41 121.0 76.6 114.8
43 107.6 207.8 311.8
56 70.0 43.6 65.4

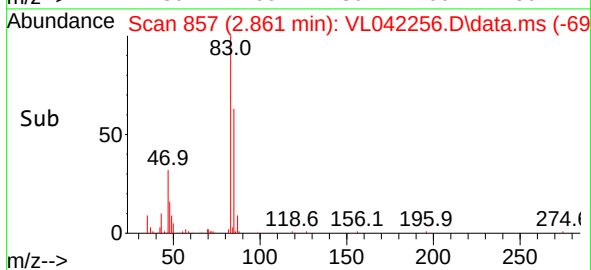
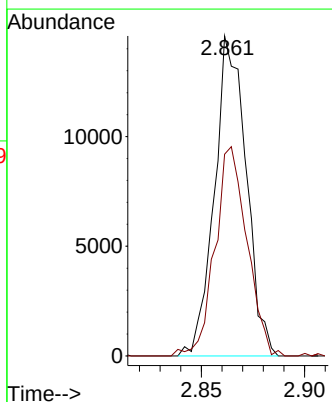
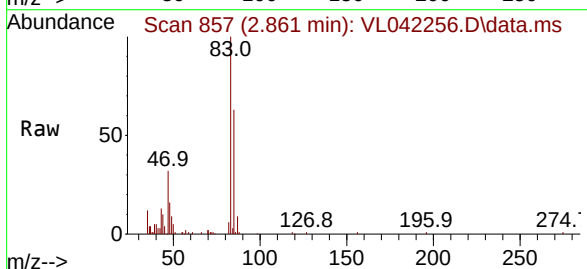
Manual Integrations
APPROVED

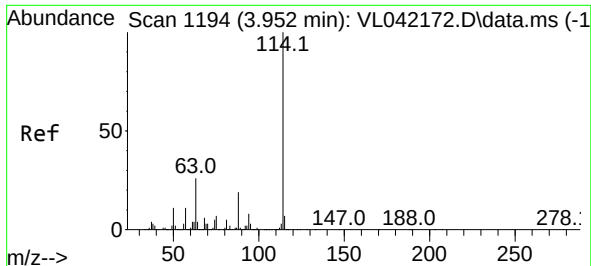
Reviewed By :Semsettin Yesilyurt 04/09/2025
Supervised By :Mahesh Dadoda 04/09/2025



#29
Chloroform
Concen: 0.386 ppbv
RT: 2.861 min Scan# 857
Delta R.T. 0.016 min
Lab File: VL042256.D
Acq: 08 Apr 2025 10:55

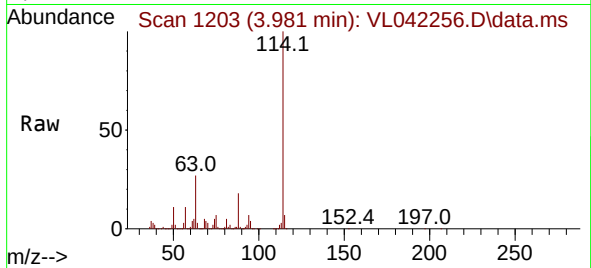
Tgt Ion: 83 Resp: 15580
Ion Ratio Lower Upper
83 100
85 61.4 51.4 77.2





#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.981 min Scan# 1194
Delta R.T. 0.029 min
Lab File: VL042256.D
Acq: 08 Apr 2025 10:55

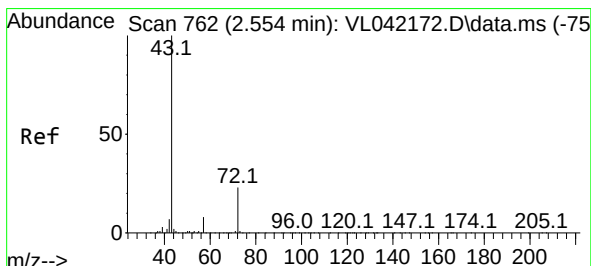
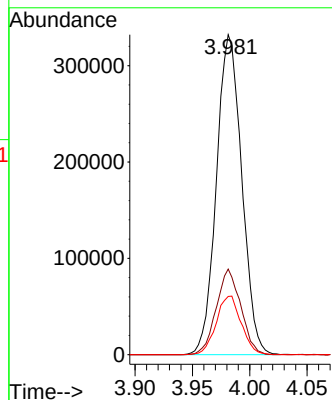
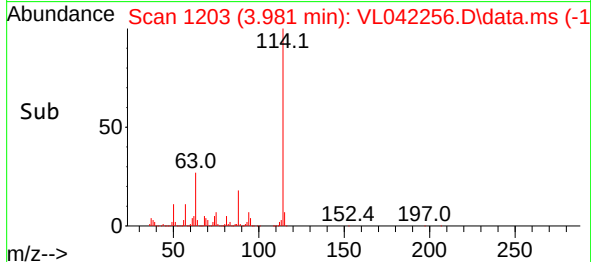
Instrument : MSVOA_L
ClientSampleId : SSSG-DUP-2-04012025



Tgt Ion:114 Resp: 510940
Ion Ratio Lower Upper
114 100
63 25.8 20.7 31.1
88 18.1 15.0 22.4

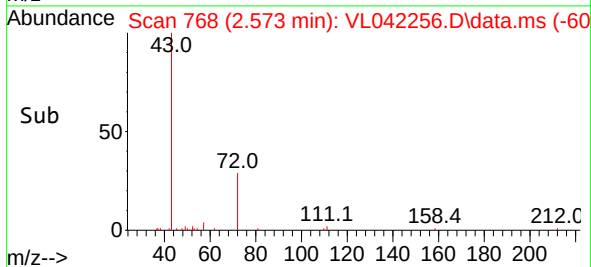
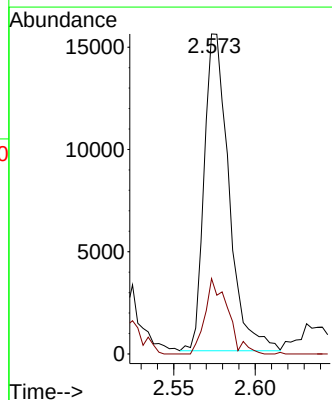
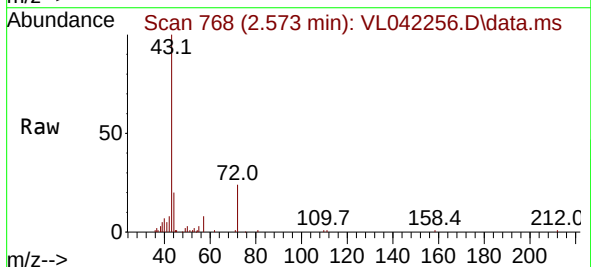
Manual Integrations
APPROVED

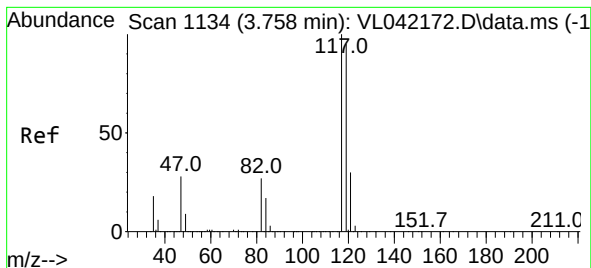
Reviewed By :Semsettin Yesilyurt 04/09/2025
Supervised By :Mahesh Dadoda 04/09/2025



#34
2-Butanone
Concen: 0.442 ppbv
RT: 2.573 min Scan# 768
Delta R.T. 0.019 min
Lab File: VL042256.D
Acq: 08 Apr 2025 10:55

Tgt Ion: 43 Resp: 16376
Ion Ratio Lower Upper
43 100
72 22.0 18.2 27.2





#35

Carbon Tetrachloride

Concen: 0.078 ppbv m

RT: 3.790 min Scan# 1110

Delta R.T. 0.032 min

Lab File: VL042256.D

Acq: 08 Apr 2025 10:55

Instrument :

MSVOA_L

ClientSampleId :

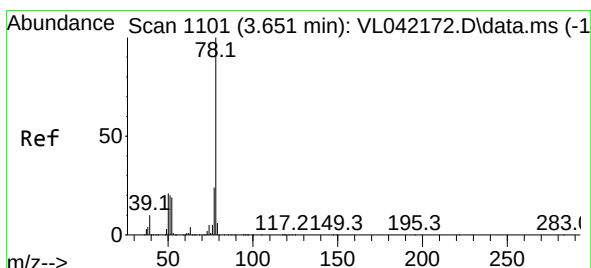
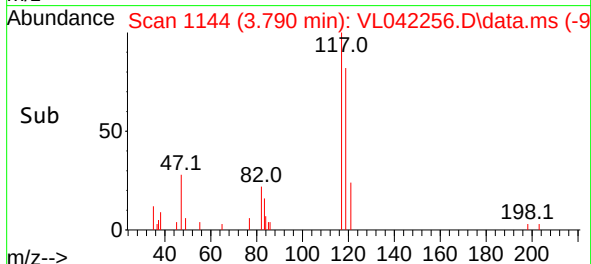
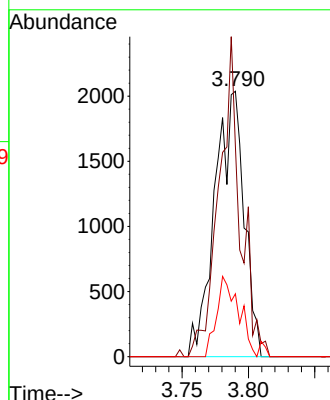
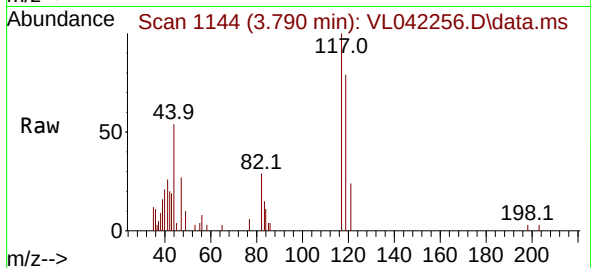
SSSG-DUP-2-04012025

Tgt Ion:117	Resp:	312
Ion Ratio	Lower	Upper
117	100	
119	79.2	76.2 114.2
121	23.7	24.2 36.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/09/2025
Supervised By :Mahesh Dadoda 04/09/2025



#36

Benzene

Concen: 0.159 ppbv

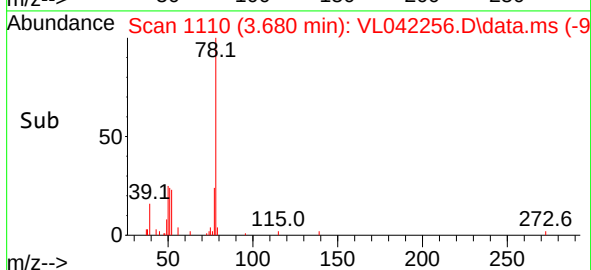
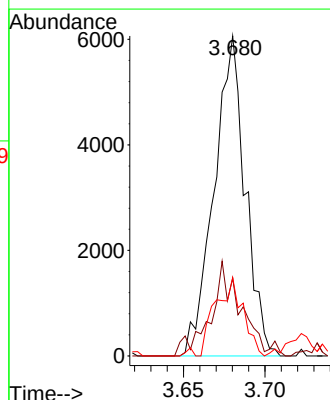
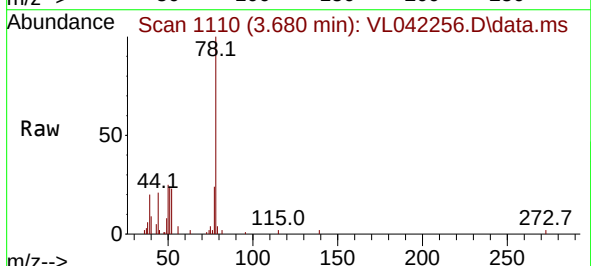
RT: 3.680 min Scan# 1110

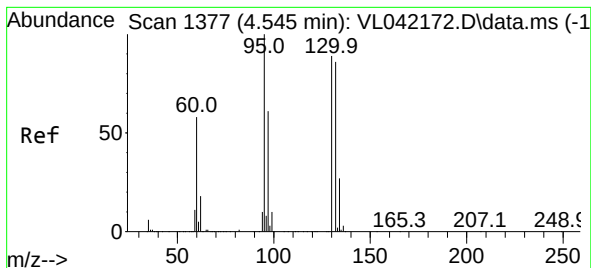
Delta R.T. 0.029 min

Lab File: VL042256.D

Acq: 08 Apr 2025 10:55

Tgt Ion: 78	Resp:	8061
Ion Ratio	Lower	Upper
78	100	
77	23.0	19.1 28.7
50	24.5	16.6 24.8





#38

Trichloroethene

Concen: 0.046 ppbv m

RT: 4.586 min Scan# 1390

Delta R.T. 0.042 min

Lab File: VL042256.D

Acq: 08 Apr 2025 10:55

Instrument :

MSVOA_L

ClientSampleId :

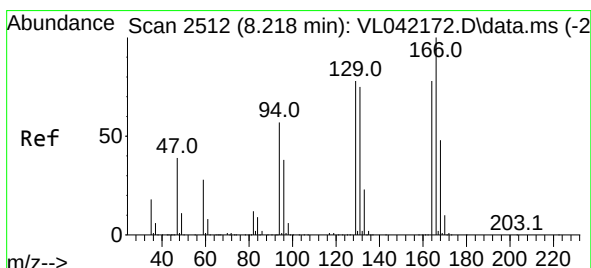
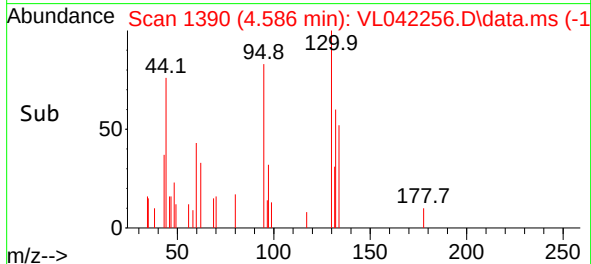
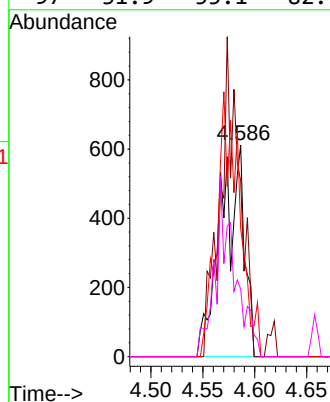
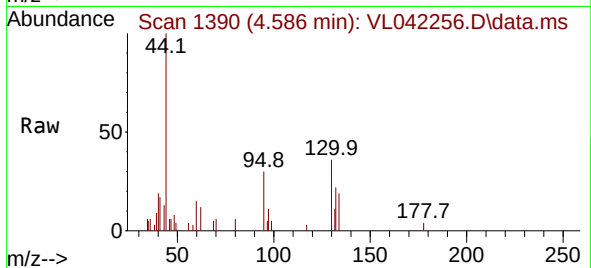
SSSG-DUP-2-04012025

Tgt Ion:130	Resp:	97.0
Ion Ratio	Lower	Upper
130	100	
95	83.1	89.8 134.8
132	60.4	77.4 116.2
97	31.9	55.1 82.7

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/09/2025
Supervised By :Mahesh Dadoda 04/09/2025



#52

Tetrachloroethene

Concen: 0.080 ppbv m

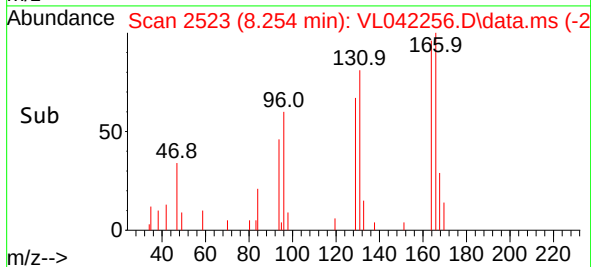
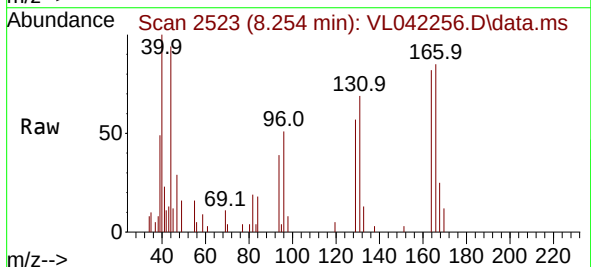
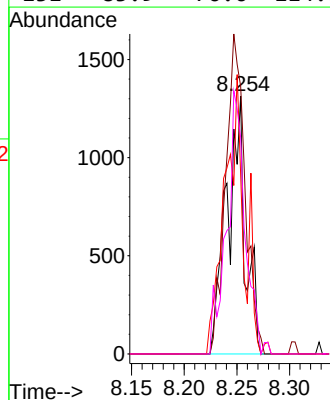
RT: 8.254 min Scan# 2523

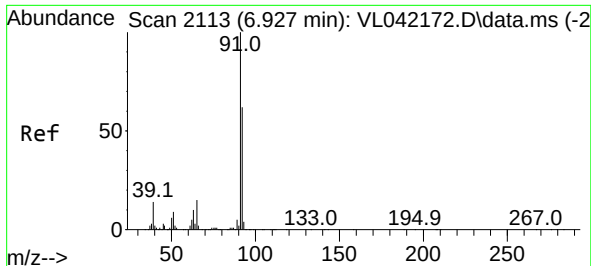
Delta R.T. 0.035 min

Lab File: VL042256.D

Acq: 08 Apr 2025 10:55

Tgt Ion:164	Resp:	1610
Ion Ratio	Lower	Upper
164	100	
166	103.7	102.5 153.7
129	69.3	79.8 119.8
131	83.9	76.6 114.8





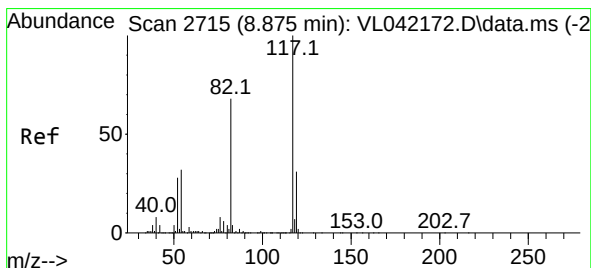
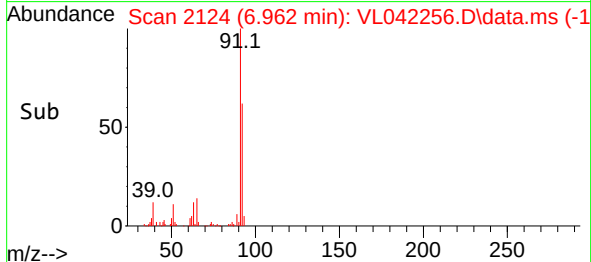
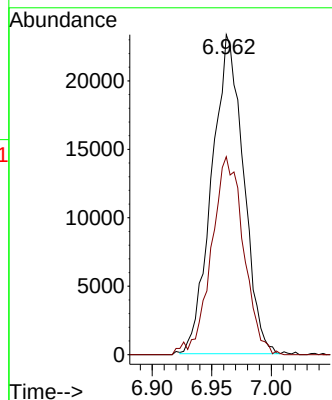
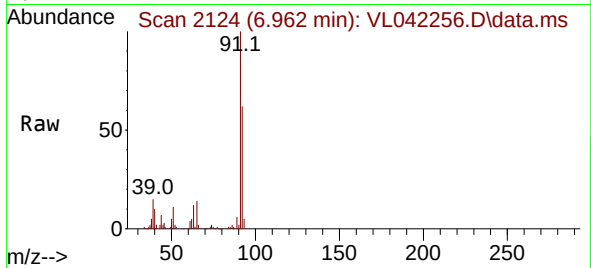
#53
Toluene
Concen: 0.716 ppbv
RT: 6.962 min Scan# 2113
Delta R.T. 0.035 min
Lab File: VL042256.D
Acq: 08 Apr 2025 10:55

Instrument :
MSVOA_L
ClientSampleId :
SSSG-DUP-2-04012025

Tgt Ion: 91 Resp: 42960
Ion Ratio Lower Upper
91 100
92 63.3 48.4 72.6

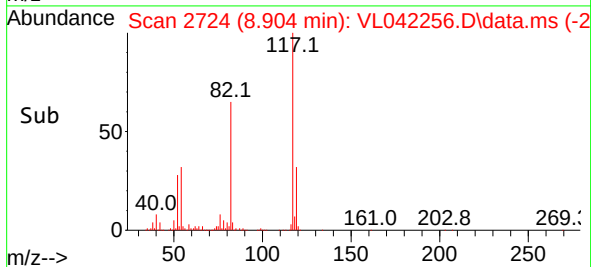
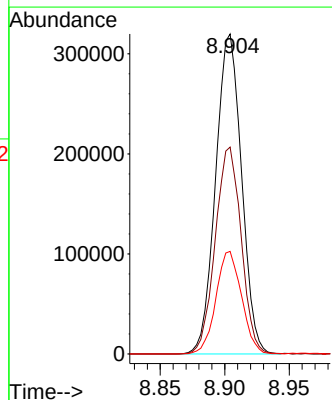
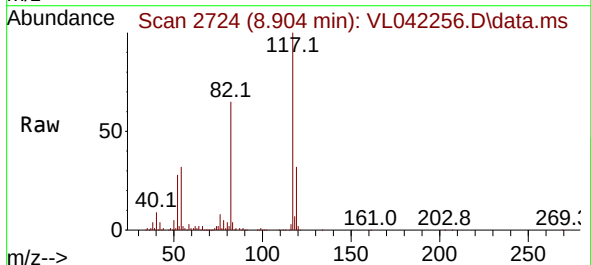
Manual Integrations
APPROVED

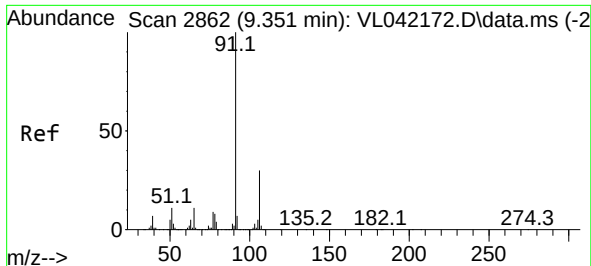
Reviewed By :Semsettin Yesilyurt 04/09/2025
Supervised By :Mahesh Dadoda 04/09/2025



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.904 min Scan# 2724
Delta R.T. 0.029 min
Lab File: VL042256.D
Acq: 08 Apr 2025 10:55

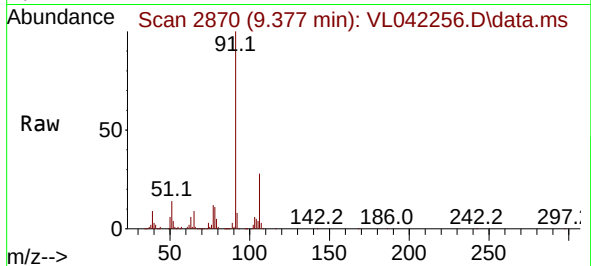
Tgt Ion:117 Resp: 446395
Ion Ratio Lower Upper
117 100
82 64.8 55.8 83.6
119 31.7 25.5 38.3





#58
Ethyl Benzene
Concen: 1.341 ppbv
RT: 9.377 min Scan# 21
Delta R.T. 0.026 min
Lab File: VL042256.D
Acq: 08 Apr 2025 10:55

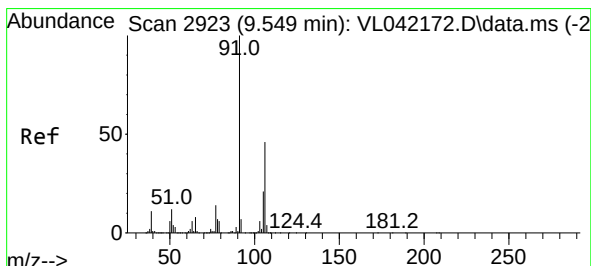
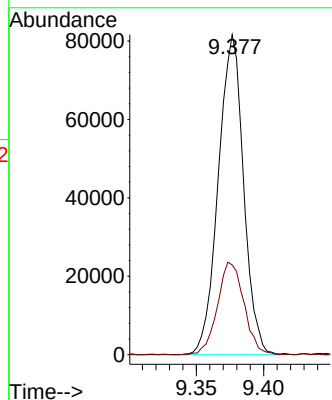
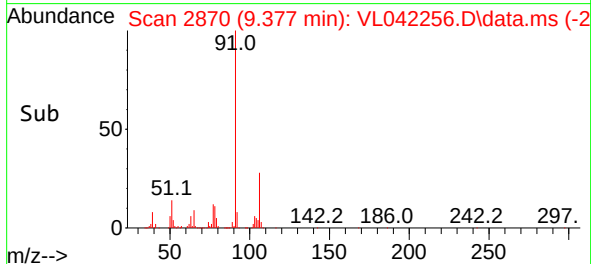
Instrument :
MSVOA_L
ClientSampleId :
SSSG-DUP-2-04012025



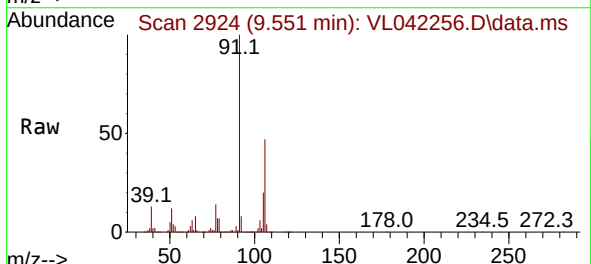
Tgt Ion: 91 Resp: 10636
Ion Ratio Lower Upper
91 100
106 28.0 24.2 36.2

Manual Integrations
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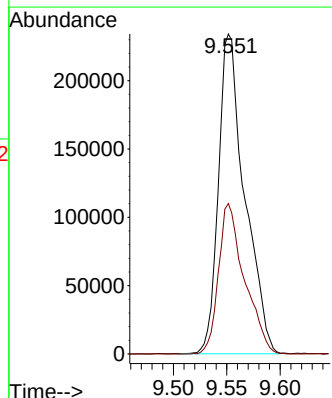
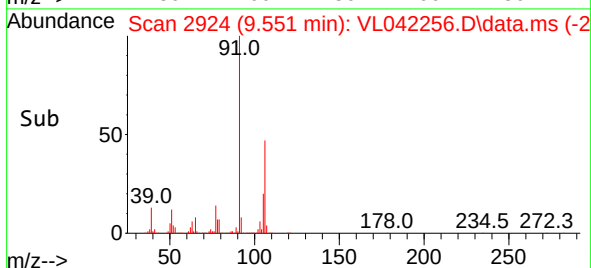
Reviewed By :Semsettin Yesilyurt 04/09/2025
Supervised By :Mahesh Dadoda 04/09/2025

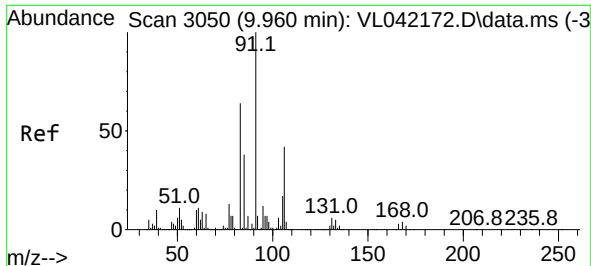


#59
m/p-Xylene
Concen: 6.322 ppbv
RT: 9.551 min Scan# 2924
Delta R.T. 0.003 min
Lab File: VL042256.D
Acq: 08 Apr 2025 10:55



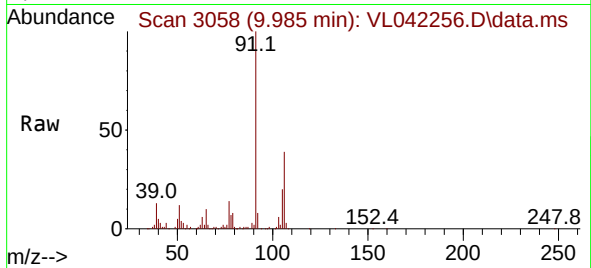
Tgt Ion: 91 Resp: 400289
Ion Ratio Lower Upper
91 100
106 46.5 36.4 54.6





#60
o-Xylene
Concen: 1.242 ppbv
RT: 9.985 min Scan# 3058
Delta R.T. 0.026 min
Lab File: VL042256.D
Acq: 08 Apr 2025 10:55

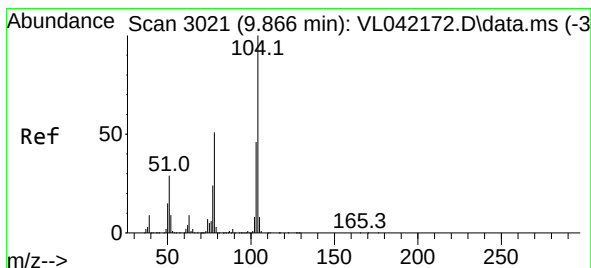
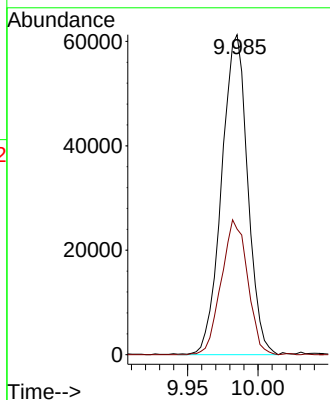
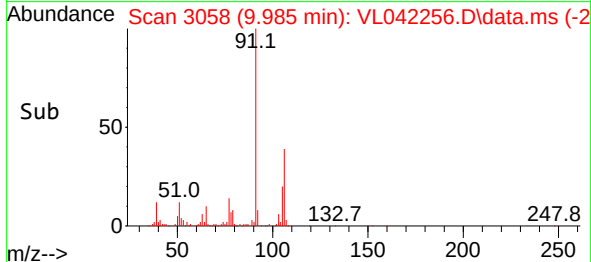
Instrument : MSVOA_L
ClientSampleId : SSSG-DUP-2-04012025



Tgt Ion: 91 Resp: 7883
Ion Ratio Lower Upper
91 100
106 42.6 20.8 62.5

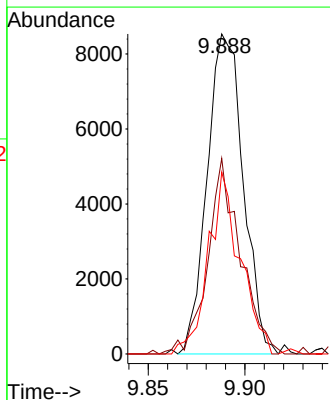
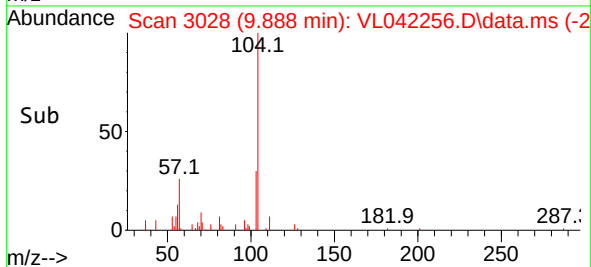
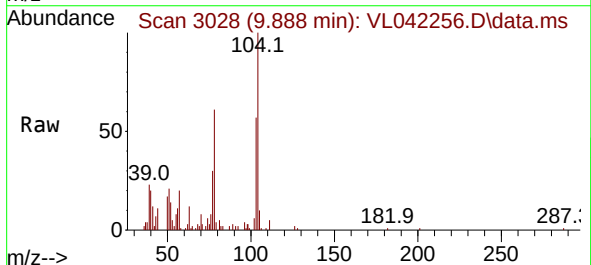
Manual Integrations
APPROVED

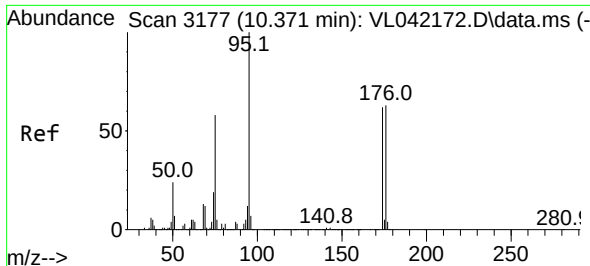
Reviewed By :Semsettin Yesilyurt 04/09/2025
Supervised By :Mahesh Dadoda 04/09/2025



#61
Styrene
Concen: 0.353 ppbv
RT: 9.888 min Scan# 3028
Delta R.T. 0.022 min
Lab File: VL042256.D
Acq: 08 Apr 2025 10:55

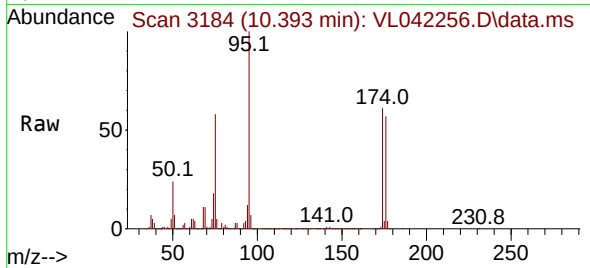
Tgt Ion:104 Resp: 11084
Ion Ratio Lower Upper
104 100
78 55.6 41.8 62.6
103 50.4 37.0 55.4





#68
1-Bromo-4-Fluorobenzene
Concen: 9.960 ppbv
RT: 10.393 min Scan# 3177
Delta R.T. 0.022 min
Lab File: VL042256.D
Acq: 08 Apr 2025 10:55

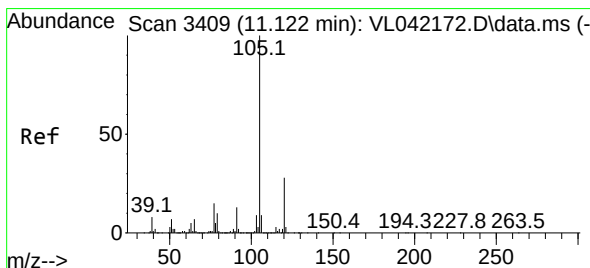
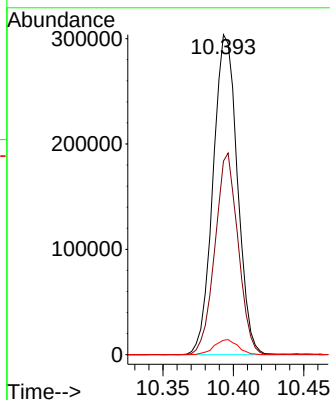
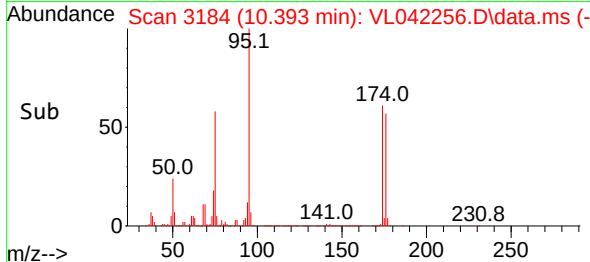
Instrument : MSVOA_L
ClientSampleId : SSSG-DUP-2-04012025



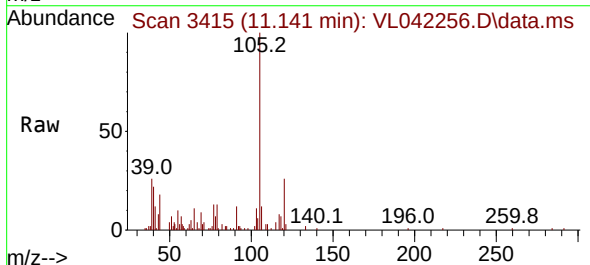
Tgt Ion: 95 Resp: 365114
Ion Ratio Lower Upper
95 100
174 60.2 50.6 76.0
175 4.6 3.8 5.6

Manual Integrations
APPROVED

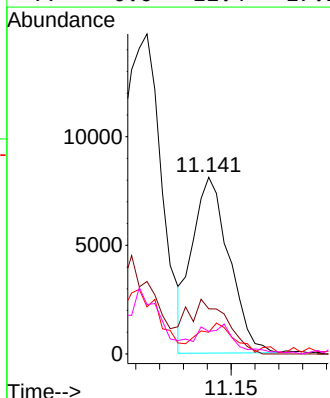
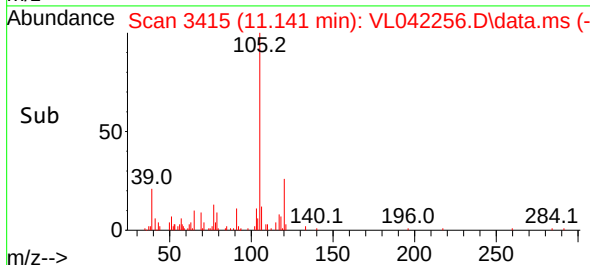
Reviewed By :Semsettin Yesilyurt 04/09/2025
Supervised By :Mahesh Dadoda 04/09/2025

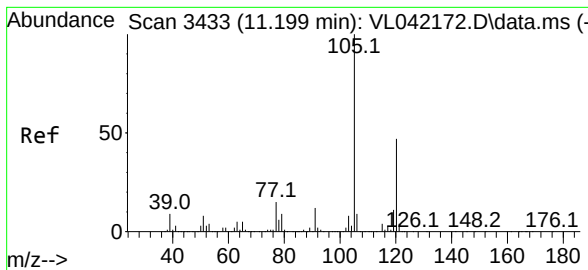


#72
4-Ethyltoluene
Concen: 0.110 ppbv
RT: 11.141 min Scan# 3415
Delta R.T. 0.019 min
Lab File: VL042256.D
Acq: 08 Apr 2025 10:55



Tgt Ion:105 Resp: 8715
Ion Ratio Lower Upper
105 100
120 0.0 23.4 35.0#
91 0.0 10.3 15.5#
77 0.0 11.4 17.2#





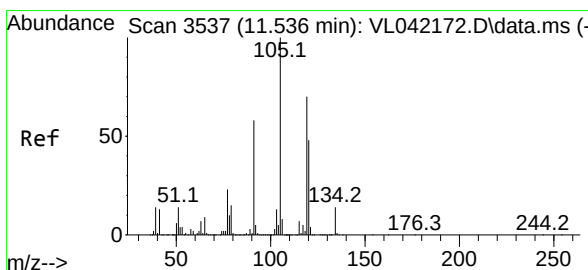
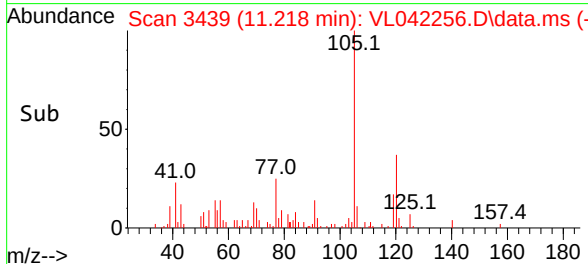
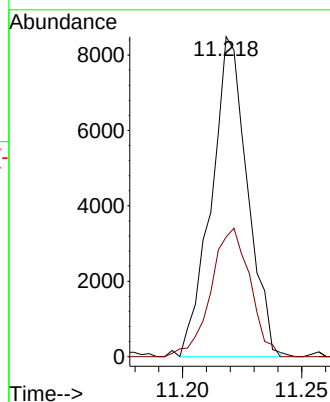
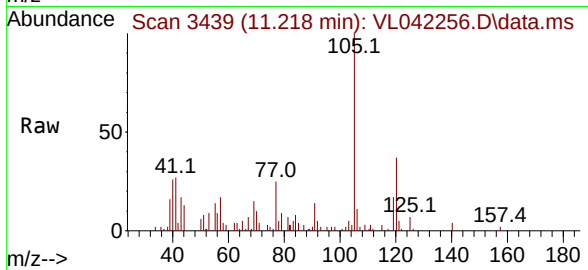
#73
1,3,5-Trimethylbenzene
Concen: 0.129 ppbv
RT: 11.218 min Scan# 3433
Delta R.T. 0.019 min
Lab File: VL042256.D
Acq: 08 Apr 2025 10:55

Instrument : MSVOA_L
ClientSampleId : SSSG-DUP-2-04012025

Tgt Ion:105 Resp: 8928
Ion Ratio Lower Upper
105 100
120 37.4 37.4 56.0

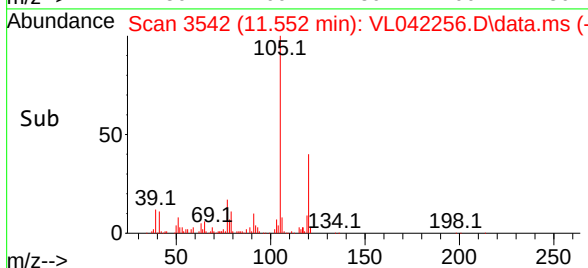
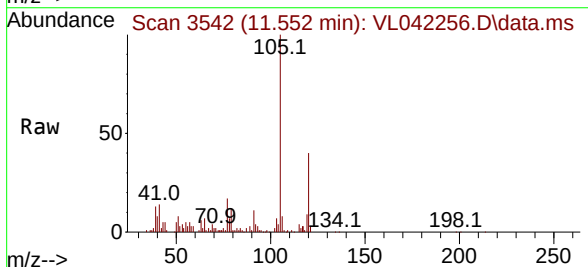
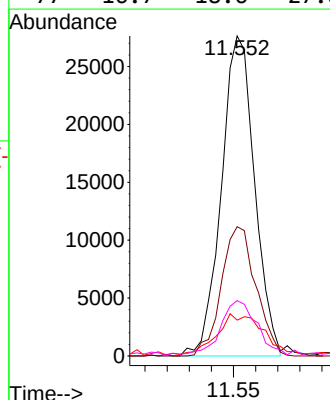
Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 04/09/2025
Supervised By :Mahesh Dadoda 04/09/2025



#74
1,2,4-Trimethylbenzene
Concen: 0.363 ppbv
RT: 11.552 min Scan# 3542
Delta R.T. 0.016 min
Lab File: VL042256.D
Acq: 08 Apr 2025 10:55

Tgt Ion:105 Resp: 28863
Ion Ratio Lower Upper
105 100
120 40.4 38.6 58.0
91 10.7 46.2 69.2#
77 16.7 18.6 27.8#



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040825\
 Data File : VL042256.D
 Acq On : 08 Apr 2025 10:55
 Operator : SY/MD
 Sample : Q1725-03
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SSSG-DUP-2-04012025

Integration Parameters: RTEINT.P

Integrator: RTE

Smoothing : ON

Filtering: 5

Sampling : 3

Min Area: 3 % of largest Peak

Start Thrs: 0.001

Max Peaks: 100

Stop Thrs : 0

Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >

Peak separation: 0

Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M

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

Signal : TIC: VL042256.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.437	412	417	422	rBV	4236086	4630415	100.00%	23.163%
2	1.563	452	456	461	rBV	147291	80589	1.74%	0.403%
3	1.609	465	470	473	rBV	83310	47230	1.02%	0.236%
4	1.842	538	542	553	rBV	2388191	1681723	36.32%	8.413%
5	1.894	553	558	571	rVV	4025763	3049678	65.86%	15.256%
6	2.803	829	839	846	rBV	712204	738556	15.95%	3.695%
7	2.861	854	857	865	rVB	43377	46747	1.01%	0.234%
8	3.713	1116	1120	1134	rVB5	30476	49633	1.07%	0.248%
9	3.981	1189	1203	1217	rBV	874780	1350833	29.17%	6.757%
10	6.962	2112	2124	2141	rVB4	64305	129771	2.80%	0.649%
11	8.904	2709	2724	2734	rBV	1115640	1602124	34.60%	8.014%
12	8.959	2734	2741	2749	rVB4	34697	54772	1.18%	0.274%
13	9.173	2797	2807	2819	rBV3	258085	365761	7.90%	1.830%
14	9.237	2819	2827	2836	rVB3	62496	92926	2.01%	0.465%
15	9.377	2858	2870	2883	rBV	209408	290943	6.28%	1.455%
16	9.551	2912	2924	2943	rVB	690111	1199010	25.89%	5.998%
17	9.729	2973	2979	2998	rVB4	45798	81356	1.76%	0.407%
18	9.888	3015	3028	3036	rVB8	39809	62475	1.35%	0.313%
19	9.985	3045	3058	3073	rVB2	180812	271915	5.87%	1.360%
20	10.396	3166	3185	3194	rBV	1416105	1779084	38.42%	8.900%
21	10.875	3326	3333	3340	rVV4	60847	81020	1.75%	0.405%
22	10.921	3340	3347	3355	rVB8	33167	56874	1.23%	0.285%
23	11.111	3397	3406	3411	rBV3	44982	56216	1.21%	0.281%
24	11.218	3431	3439	3446	rVB6	39740	55937	1.21%	0.280%
25	11.552	3534	3542	3552	rVB4	88133	125469	2.71%	0.628%
26	11.769	3601	3609	3614	rBV3	109465	130420	2.82%	0.652%
27	12.060	3684	3699	3705	rBV	324407	344552	7.44%	1.724%
28	12.102	3705	3712	3719	rBV2	54836	59026	1.27%	0.295%
29	12.244	3748	3756	3760	rBV2	240585	282188	6.09%	1.412%
30	12.267	3760	3763	3778	rVB	196546	213297	4.61%	1.067%
31	12.458	3806	3822	3836	rBV2	217356	312572	6.75%	1.564%
32	12.523	3836	3842	3850	rBV4	86821	100675	2.17%	0.504%
33	12.662	3877	3885	3891	rBV2	130112	172131	3.72%	0.861%
34	12.840	3932	3940	3947	rBV3	60850	72537	1.57%	0.363%
35	12.892	3947	3956	3963	rVV2	109850	131067	2.83%	0.656%
36	12.943	3963	3972	3978	rVB4	46486	58290	1.26%	0.292%

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040825\
Data File : VL042256.D
Acq On : 08 Apr 2025 10:55
Operator : SY/MD
Sample : Q1725-03
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
SSSG-DUP-2-04012025

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 3 Min Area: 3 % of largest Peak
Start Thrs: 0.001 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 0

Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

37	13.008	3985	3992	4003	rBV5	43431	72665	1.57%	0.363%
38	13.400	4105	4113	4122	rVB2	52390	59964	1.30%	0.300%

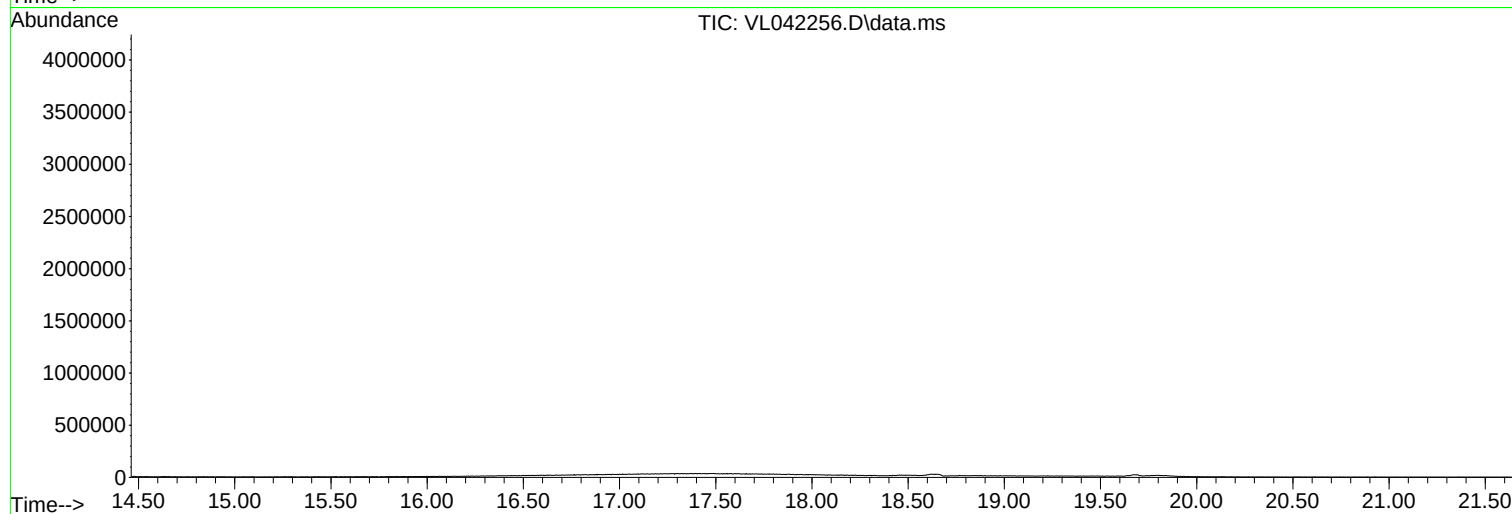
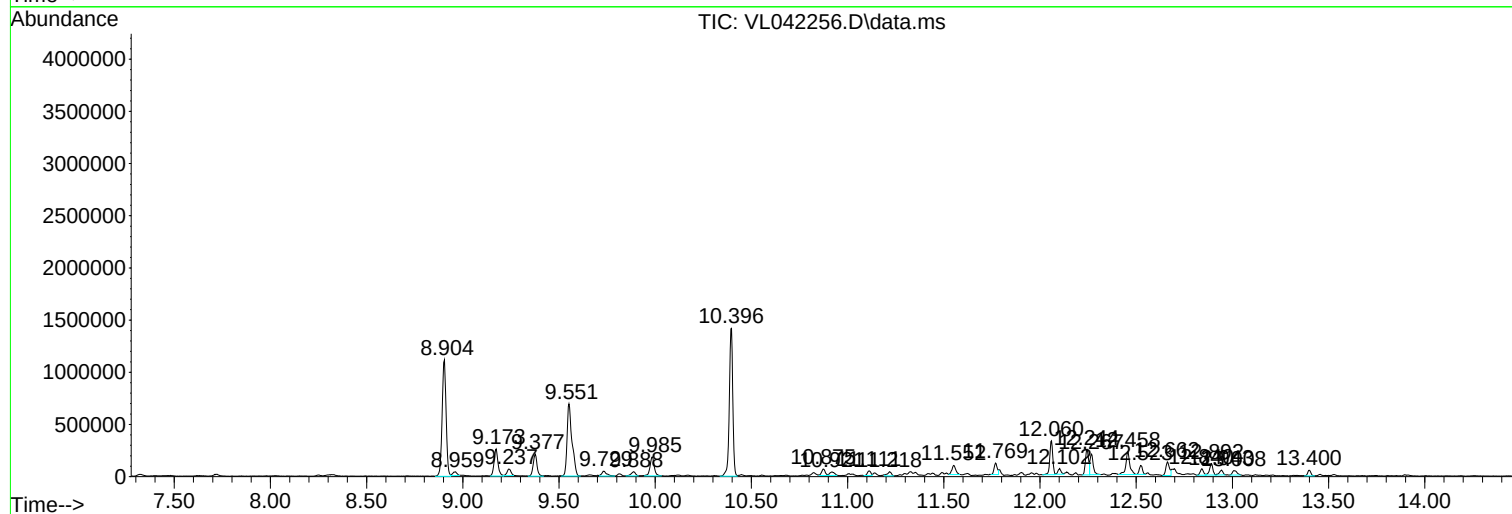
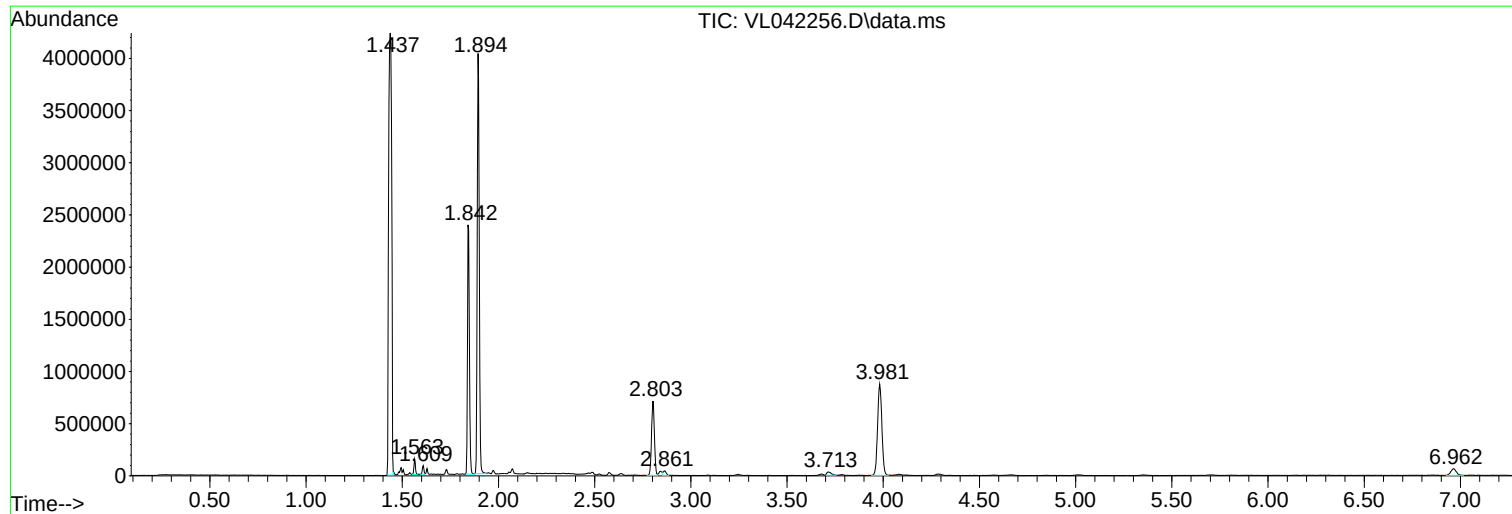
Sum of corrected areas: 19990441

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040825\
Data File : VL042256.D
Acq On : 08 Apr 2025 10:55
Operator : SY/MD
Sample : Q1725-03
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
SSSG-DUP-2-04012025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040825\
Data File : VL042256.D
Acq On : 08 Apr 2025 10:55
Operator : SY/MD
Sample : Q1725-03
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
SSSG-DUP-2-04012025

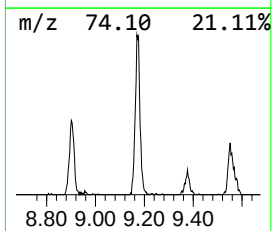
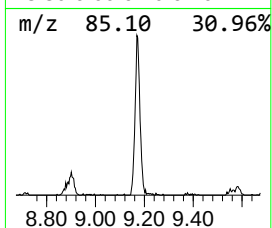
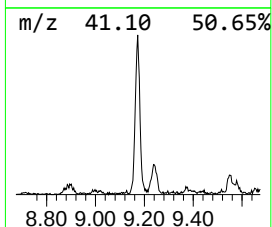
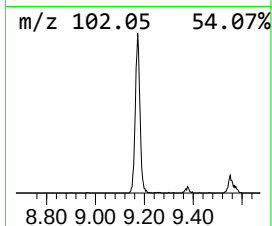
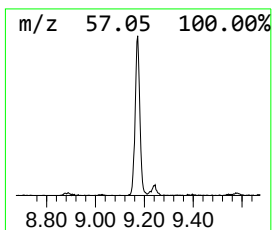
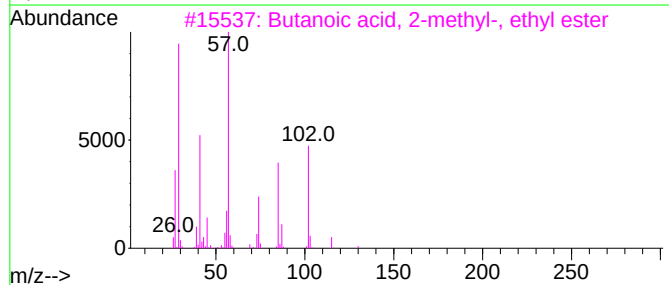
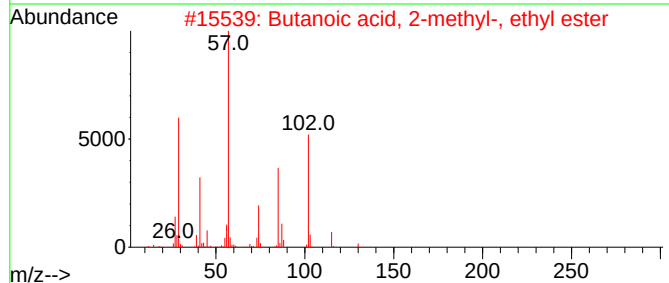
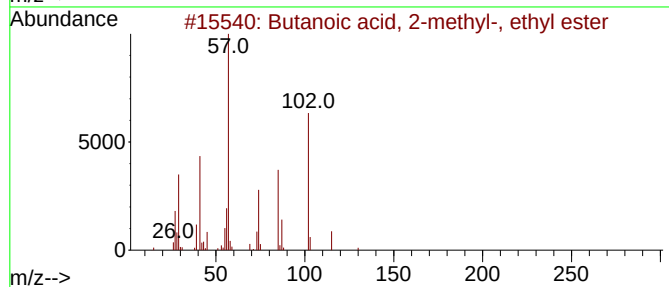
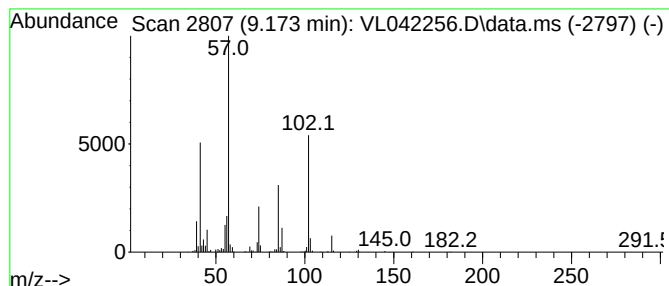
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

Peak Number 1 Butanoic acid, 2-methyl-, e... Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.173	2.28 ppbv	365761	Chlorobenzene-d5	8.904

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Butanoic acid, 2-methyl-, ethyl ...	130	C7H14O2	007452-79-1	91
2			Butanoic acid, 2-methyl-, ethyl ...	130	C7H14O2	007452-79-1	90
3			Butanoic acid, 2-methyl-, ethyl ...	130	C7H14O2	007452-79-1	87
4			Butanoic acid, 2-methyl-, ethyl ...	130	C7H14O2	007452-79-1	83
5			Butanoic acid, 2-methyl-, ethyl ...	130	C7H14O2	007452-79-1	58



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040825\
Data File : VL042256.D
Acq On : 08 Apr 2025 10:55
Operator : SY/MD
Sample : Q1725-03
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
SSSG-DUP-2-04012025

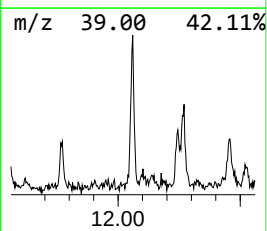
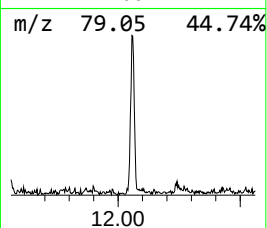
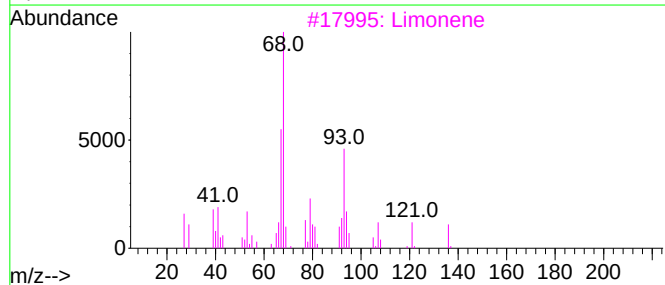
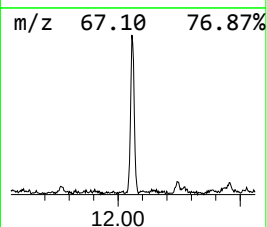
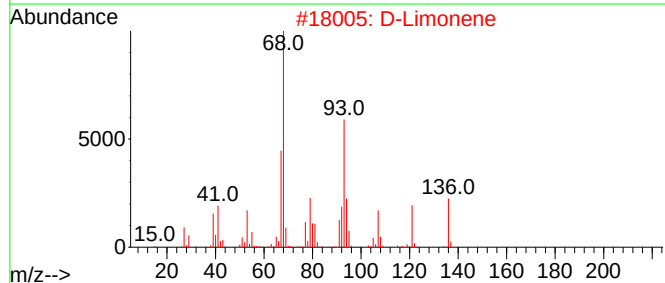
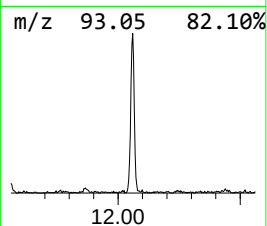
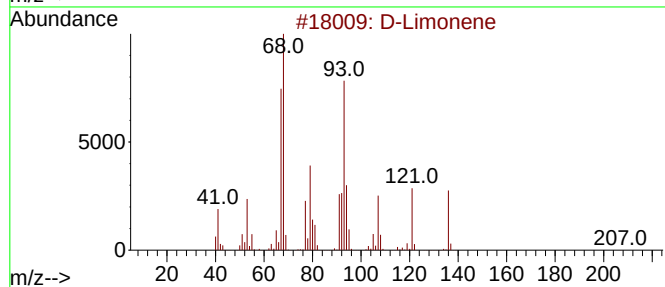
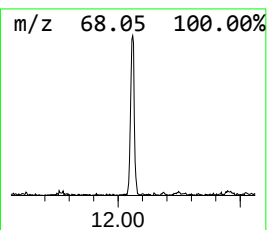
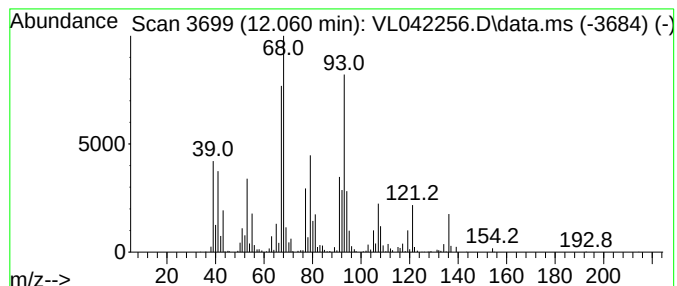
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

Peak Number 2 D-Limonene Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.060	2.15 ppbv	344552	Chlorobenzene-d5	8.904

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1	D-Limonene			136	C10H16	005989-27-5	96
2	D-Limonene			136	C10H16	005989-27-5	94
3	Limonene			136	C10H16	000138-86-3	94
4	Limonene			136	C10H16	000138-86-3	94
5	D-Limonene			136	C10H16	005989-27-5	90



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040825\
Data File : VL042256.D
Acq On : 08 Apr 2025 10:55
Operator : SY/MD
Sample : Q1725-03
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
SSSG-DUP-2-04012025

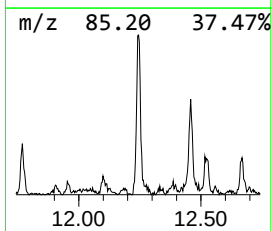
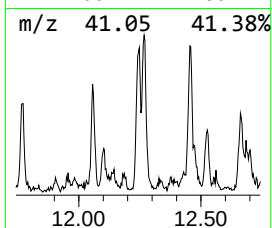
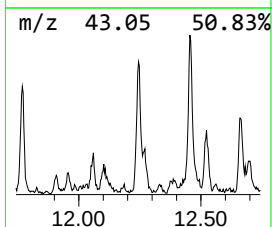
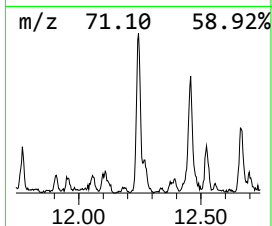
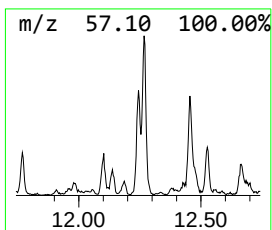
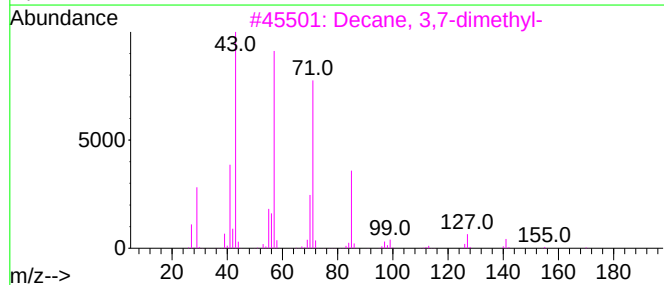
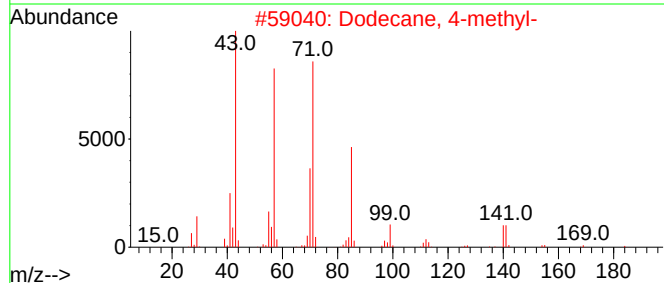
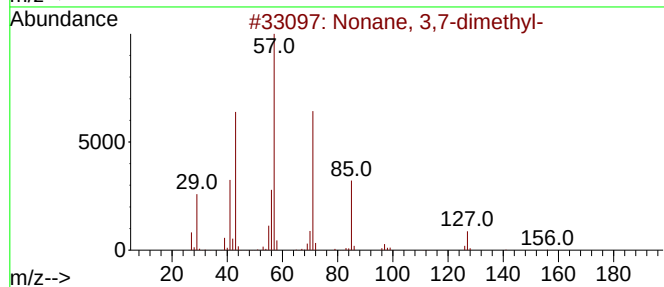
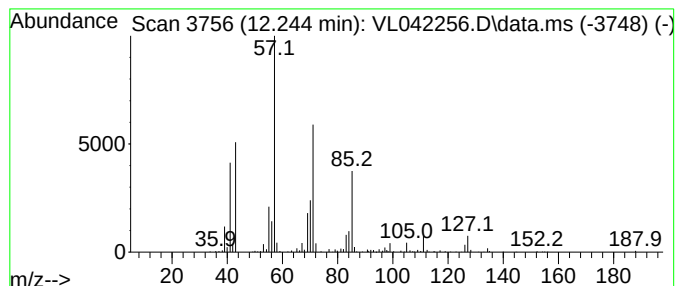
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

Peak Number 3 Nonane, 3,7-dimethyl- Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.244	1.76 ppbv	282188	Chlorobenzene-d5	8.904

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Nonane, 3,7-dimethyl-	156	C11H24	017302-32-8	62
2			Dodecane, 4-methyl-	184	C13H28	006117-97-1	59
3			Decane, 3,7-dimethyl-	170	C12H26	017312-54-8	59
4			Pentan-2-yl 2-methylbutanoate	172	C10H20O2	1000372-71-7	53
5			Sulfurous acid, 2-ethylhexyl iso...	278	C14H30O3S	1000309-19-0	53



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040825\
Data File : VL042256.D
Acq On : 08 Apr 2025 10:55
Operator : SY/MD
Sample : Q1725-03
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
SSSG-DUP-2-04012025

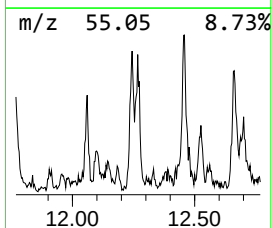
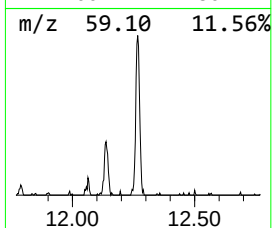
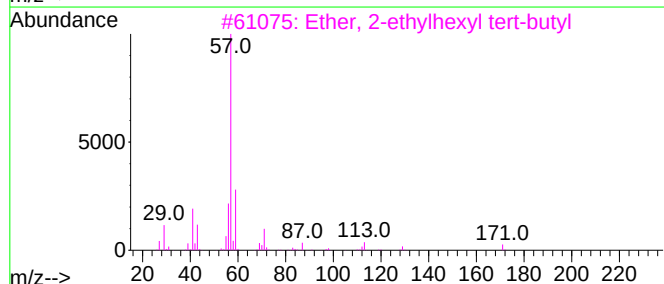
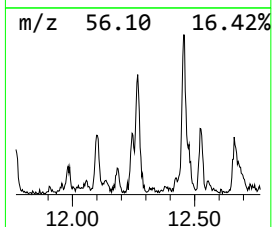
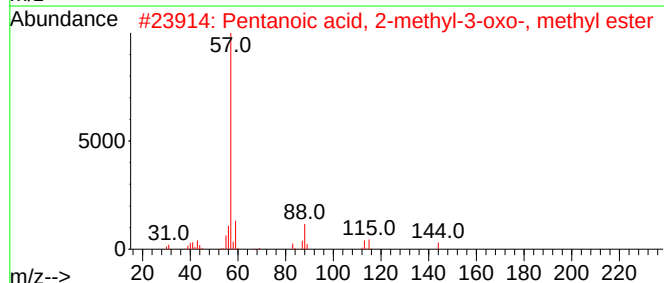
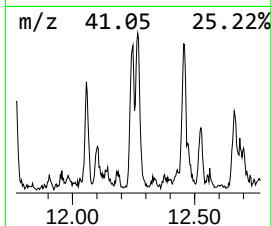
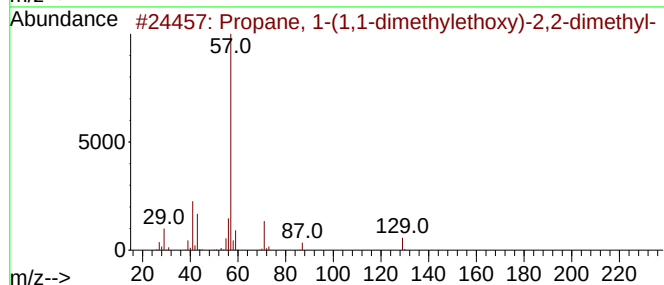
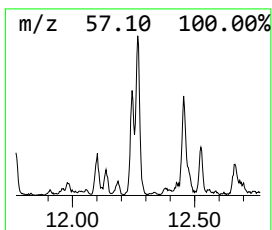
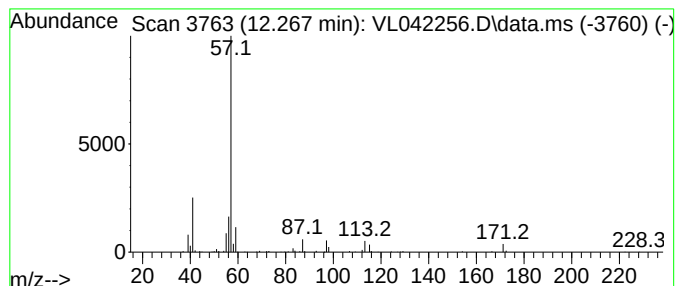
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Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

Peak Number 4 unknown12.267 Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.267	1.33 ppbv	213297	Chlorobenzene-d5	8.904

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Propane, 1-(1,1-dimethylethoxy)-...	144	C9H20O	032970-46-0	40
2			Pentanoic acid, 2-methyl-3-oxo-,...	144	C7H12O3	017422-12-7	40
3			Ether, 2-ethylhexyl tert-butyl	186	C12H26O	083704-03-4	33
4			Dodecane, 2,2,11,11-tetramethyl-	226	C16H34	127204-12-0	12
5			Oxalic acid, isobutyl heptyl ester	244	C13H24O4	1000309-37-2	12



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040825\
Data File : VL042256.D
Acq On : 08 Apr 2025 10:55
Operator : SY/MD
Sample : Q1725-03
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
SSSG-DUP-2-04012025

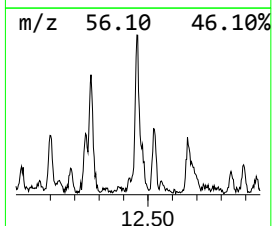
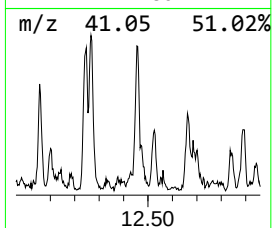
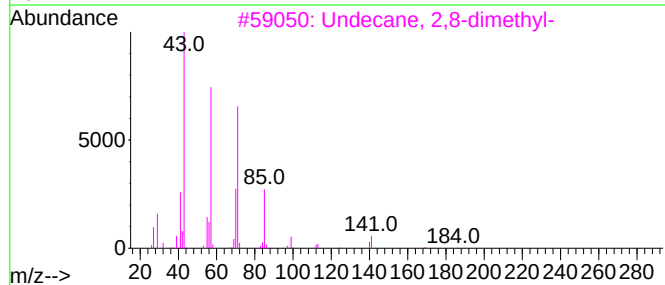
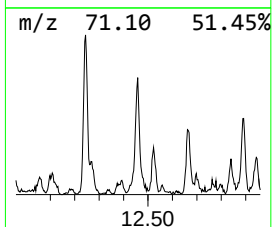
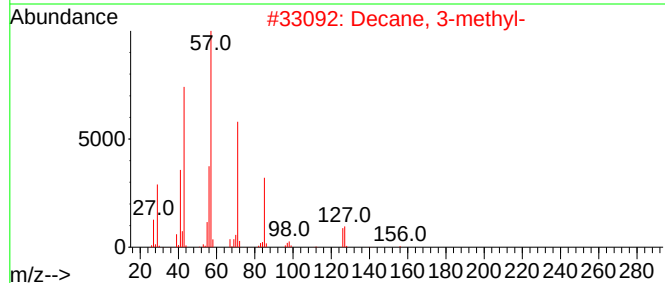
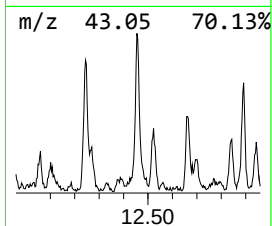
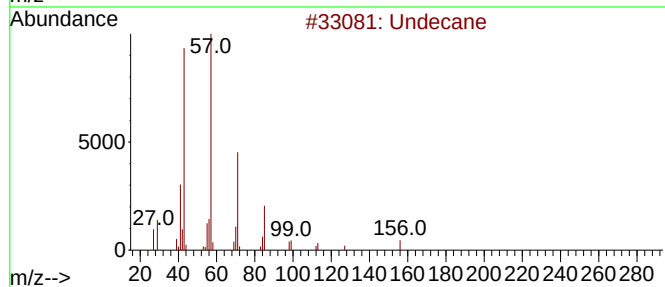
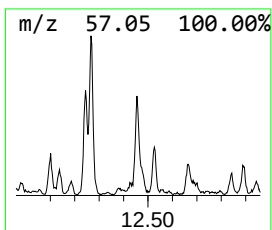
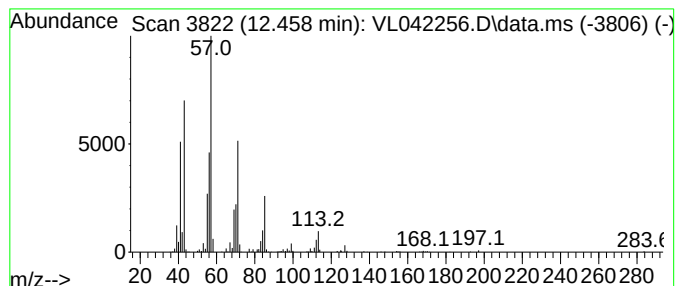
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

Peak Number 5 Undecane Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.458	1.95 ppbv	312572	Chlorobenzene-d5	8.904

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1	Undecane			156	C11H24	001120-21-4	53
2	Decane, 3-methyl-			156	C11H24	013151-34-3	47
3	Undecane, 2,8-dimethyl-			184	C13H28	017301-25-6	47
4	Nonane, 3-methyl-			142	C10H22	005911-04-6	47
5	Oxalic acid, butyl 2-ethylhexyl ...			258	C14H26O4	1000309-38-6	43



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040825\
Data File : VL042256.D
Acq On : 08 Apr 2025 10:55
Operator : SY/MD
Sample : Q1725-03
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

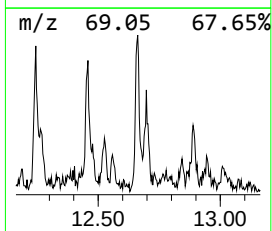
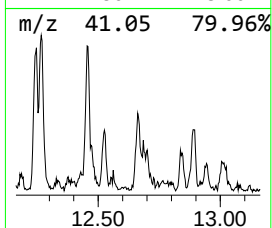
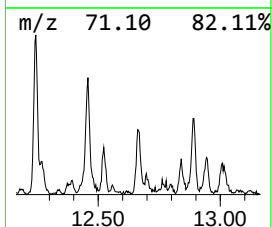
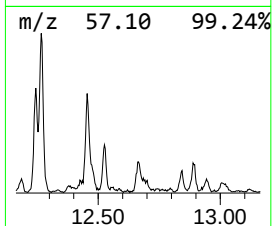
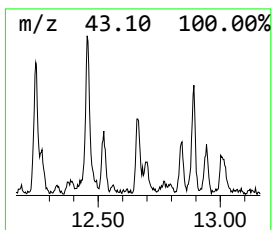
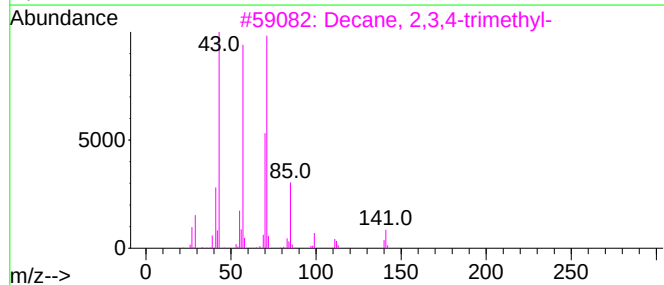
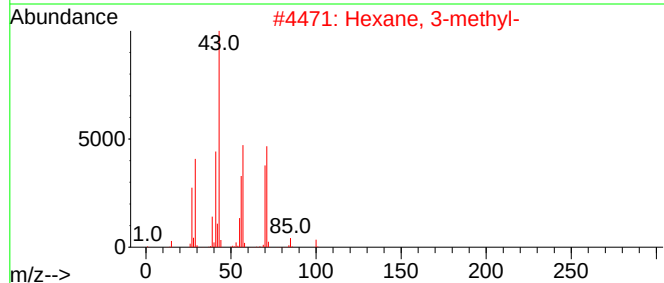
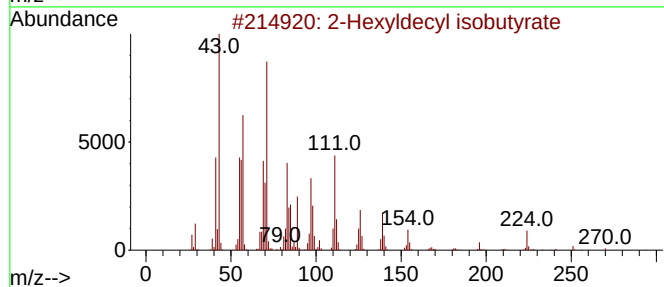
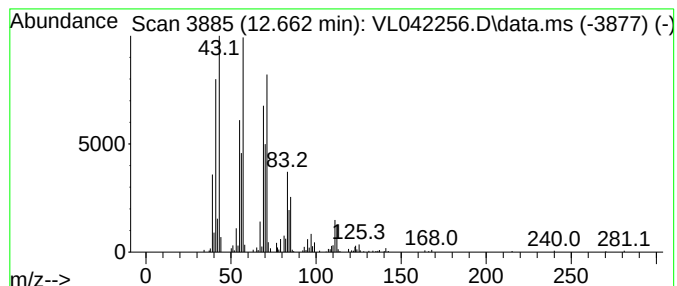
Instrument :
MSVOA_L
ClientSampleId :
SSSG-DUP-2-04012025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

Peak Number 6 2-Hexyldecyl isobutyrate Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.	
12.662	1.07 ppbv	172131	Chlorobenzene-d5	8.904	
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Hexyldecyl isobutyrate	312	C20H40O2	1000368-55-3	64
2	Hexane, 3-methyl-	100	C7H16	000589-34-4	50
3	Decane, 2,3,4-trimethyl-	184	C13H28	062238-15-7	47
4	Butane, 2,2-dimethyl-	86	C6H14	000075-83-2	43
5	Heptane, 3-ethyl-5-methyl-	142	C10H22	052896-90-9	43



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040825\
Data File : VL042256.D
Acq On : 08 Apr 2025 10:55
Operator : SY/MD
Sample : Q1725-03
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
SSSG-DUP-2-04012025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

TIC Library : C:\Database\NIST0.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	--Internal Standard--			
					#	RT	Resp	Conc
Butanoic acid, ...	9.173	2.3	ppbv	365761	3	8.904	1602120	10.0
D-Limonene	12.060	2.1	ppbv	344552	3	8.904	1602120	10.0
Nonane, 3,7-dim...	12.244	1.8	ppbv	282188	3	8.904	1602120	10.0
unknown12.267	12.267	1.3	ppbv	213297	3	8.904	1602120	10.0
Undecane	12.458	2.0	ppbv	312572	3	8.904	1602120	10.0
2-Hexyldecyl is...	12.662	1.1	ppbv	172131	3	8.904	1602120	10.0

Report of Analysis

Client:	Woodard & Curran	Date Collected:	04/01/25
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	04/03/25
Client Sample ID:	SSSG-DUP-2-04012025DL	SDG No.:	Q1725
Lab Sample ID:	Q1725-03DL	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042244.D	4		04/07/25 22:09	VL040725

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.84	4.15	UD	4.15	9.89	ug/m3
74-87-3	Chloromethane	0.53	1.09	JD	0.81	4.13	ug/m3
75-01-4	Vinyl Chloride	0.060	0.15	UD	0.15	0.31	ug/m3
74-83-9	Bromomethane	0.56	2.17	UD	2.17	7.77	ug/m3
75-00-3	Chloroethane	0.68	1.79	UD	1.79	5.28	ug/m3
109-99-9	Tetrahydrofuran	0.52	1.53	UD	1.53	5.90	ug/m3
75-69-4	Trichlorofluoromethane	0.64	3.60	UD	3.60	11.2	ug/m3
76-13-1	1,1,2-Trichlorotrifluoroethane	0.64	4.91	UD	4.91	15.3	ug/m3
76-14-2	Dichlorotetrafluoroethane	0.35	2.45	UD	2.45	14.0	ug/m3
75-65-0	tert-Butyl alcohol	0.76	2.30	UD	2.30	6.06	ug/m3
142-82-5	Heptane	0.44	1.80	UD	1.80	8.20	ug/m3
75-35-4	1,1-Dichloroethene	0.56	2.22	UD	2.22	7.93	ug/m3
67-64-1	Acetone	43.7	104	D	2.28	4.75	ug/m3
75-15-0	Carbon Disulfide	0.64	1.99	UD	1.99	6.23	ug/m3
1634-04-4	Methyl tert-Butyl Ether	0.48	1.73	UD	1.73	7.21	ug/m3
75-09-2	Methylene Chloride	1.20	4.17	JD	2.64	6.95	ug/m3
156-60-5	trans-1,2-Dichloroethene	0.76	3.01	UD	3.01	7.93	ug/m3
75-34-3	1,1-Dichloroethane	0.52	2.10	UD	2.10	8.09	ug/m3
110-82-7	Cyclohexane	0.88	3.03	UD	3.03	6.88	ug/m3
78-93-3	2-Butanone	0.48	1.42	UD	1.42	5.90	ug/m3
56-23-5	Carbon Tetrachloride	0.040	0.25	UD	0.25	0.75	ug/m3
156-59-2	cis-1,2-Dichloroethene	0.36	1.43	UD	1.43	7.93	ug/m3
67-66-3	Chloroform	0.43	2.10	JD	1.61	9.77	ug/m3
71-55-6	1,1,1-Trichloroethane	0.040	0.22	UD	0.22	0.65	ug/m3
540-84-1	2,2,4-Trimethylpentane	0.40	1.87	UD	1.87	9.34	ug/m3
71-43-2	Benzene	0.35	1.12	UD	1.12	6.39	ug/m3
107-06-2	1,2-Dichloroethane	0.36	1.46	UD	1.46	8.09	ug/m3
79-01-6	Trichloroethene	0.070	0.38	UD	0.38	0.64	ug/m3
78-87-5	1,2-Dichloropropane	0.44	2.03	UD	2.03	9.24	ug/m3
75-27-4	Bromodichloromethane	0.31	2.08	UD	2.08	13.4	ug/m3
108-10-1	4-Methyl-2-Pentanone	0.37	1.52	UD	1.52	8.20	ug/m3
108-88-3	Toluene	0.61	2.30	JD	1.66	7.54	ug/m3
10061-02-6	t-1,3-Dichloropropene	0.24	1.09	UD	1.09	9.08	ug/m3
10061-01-5	cis-1,3-Dichloropropene	0.26	1.18	UD	1.18	9.08	ug/m3
79-00-5	1,1,2-Trichloroethane	0.28	1.53	UD	1.53	10.9	ug/m3

Report of Analysis

Client:	Woodard & Curran	Date Collected:	04/01/25
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	04/03/25
Client Sample ID:	SSSG-DUP-2-04012025DL	SDG No.:	Q1725
Lab Sample ID:	Q1725-03DL	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042244.D	4		04/07/25 22:09	VL040725

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
124-48-1	Dibromochloromethane	0.26	2.22	UD	2.22	17.0	ug/m3
106-93-4	1,2-Dibromoethane	0.29	2.23	UD	2.23	3.07	ug/m3
127-18-4	Tetrachloroethene	0.060	0.41	UD	0.41	0.81	ug/m3
108-90-7	Chlorobenzene	0.30	1.38	UD	1.38	9.21	ug/m3
100-41-4	Ethyl Benzene	1.00	4.34	JD	2.08	8.69	ug/m3
179601-23-1	m/p-Xylene	4.20	18.2	D	3.65	17.4	ug/m3
95-47-6	o-Xylene	0.84	3.65	JD	2.08	8.69	ug/m3
100-42-5	Styrene	0.44	1.87	UD	1.87	8.52	ug/m3
75-25-2	Bromoform	0.23	2.38	UD	2.38	20.7	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	0.040	0.27	UD	0.27	0.82	ug/m3
95-49-8	2-Chlorotoluene	0.44	2.28	UD	2.28	10.4	ug/m3
108-67-8	1,3,5-Trimethylbenzene	0.44	2.16	UD	2.16	9.83	ug/m3
95-63-6	1,2,4-Trimethylbenzene	0.31	1.52	UD	1.52	9.83	ug/m3
541-73-1	1,3-Dichlorobenzene	0.32	1.92	UD	1.92	12.0	ug/m3
106-46-7	1,4-Dichlorobenzene	0.21	1.26	UD	1.26	12.0	ug/m3
95-50-1	1,2-Dichlorobenzene	0.30	1.80	UD	1.80	12.0	ug/m3
120-82-1	1,2,4-Trichlorobenzene	0.34	2.52	UD	2.52	14.8	ug/m3
87-68-3	Hexachloro-1,3-Butadiene	0.34	3.63	UD	3.63	21.3	ug/m3
106-99-0	1,3-Butadiene	0.52	1.15	UD	1.15	4.42	ug/m3
91-20-3	Naphthalene	0.30	1.57	UD	1.57	2.10	ug/m3
622-96-8	4-Ethyltoluene	0.48	2.36	UD	2.36	9.83	ug/m3
110-54-3	Hexane	0.44	1.55	UD	1.55	7.05	ug/m3
107-05-1	Allyl Chloride	0.60	1.88	UD	1.88	6.26	ug/m3
123-91-1	1,4-Dioxane	0.84	3.03	UD	3.03	7.21	ug/m3
80-62-6	Methyl Methacrylate	0.34	1.39	UD	1.39	8.19	ug/m3
SURROGATES							
460-00-4	1-Bromo-4-Fluorobenzene	9.90			70 (65) - 130 (135)	99%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	191000		2.803			
540-36-3	1,4-Difluorobenzene	486000		3.985			
3114-55-4	Chlorobenzene-d5	426000		8.904			

Report of Analysis

Client:	Woodard & Curran	Date Collected:	04/01/25
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	04/03/25
Client Sample ID:	SSSG-DUP-2-04012025DL	SDG No.:	Q1725
Lab Sample ID:	Q1725-03DL	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042244.D	4		04/07/25 22:09	VL040725

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units

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\VL040725\
 Data File : VL042244.D
 Acq On : 07 Apr 2025 22:09
 Operator : SY/MD
 Sample : Q1725-03DL 4X
 Misc : 400mL/MSVOA_L
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SSSG-DUP-2-04012025DL

Quant Time: Apr 08 01:37:01 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2
 QLast Update : Fri Mar 28 02:00:52 2025
 Response via : Initial Calibration

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 04/08/2025
 Supervised By : Mahesh Dadoda 04/09/2025

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

Internal Standards						
1) Bromochloromethane	2.803	49	190938	10.000	ppbv	0.02
33) 1,4-Difluorobenzene	3.985	114	485801	10.000	ppbv	0.03
55) Chlorobenzene-d5	8.904	117	425989	10.000	ppbv	0.03
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.396	95	345971	9.890	ppbv	0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.900%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.505	85	3344	0.119	ppbv #	85
4) Chloromethane	1.538	50	1532	0.133	ppbv	100
9) Propene	1.496	41	1795	0.136	ppbv	98
13) Ethanol	1.729	45	4551m	3.647	ppbv	
15) Acetone	1.845	43	291841	10.929	ppbv	95
19) Isopropyl Alcohol	1.894	45	547602	36.345	ppbv #	32
20) Methylene Chloride	2.072	84	2917	0.293	ppbv #	82
29) Chloroform	2.865	83	4185	0.107	ppbv #	81
34) 2-Butanone	2.580	43	3751	0.106	ppbv	97
53) Toluene	6.962	91	8739m	0.153	ppbv	
58) Ethyl Benzene	9.374	91	19351	0.256	ppbv	98
59) m/p-Xylene	9.555	91	63265	1.047	ppbv	100
60) o-Xylene	9.985	91	12718	0.210	ppbv	94

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

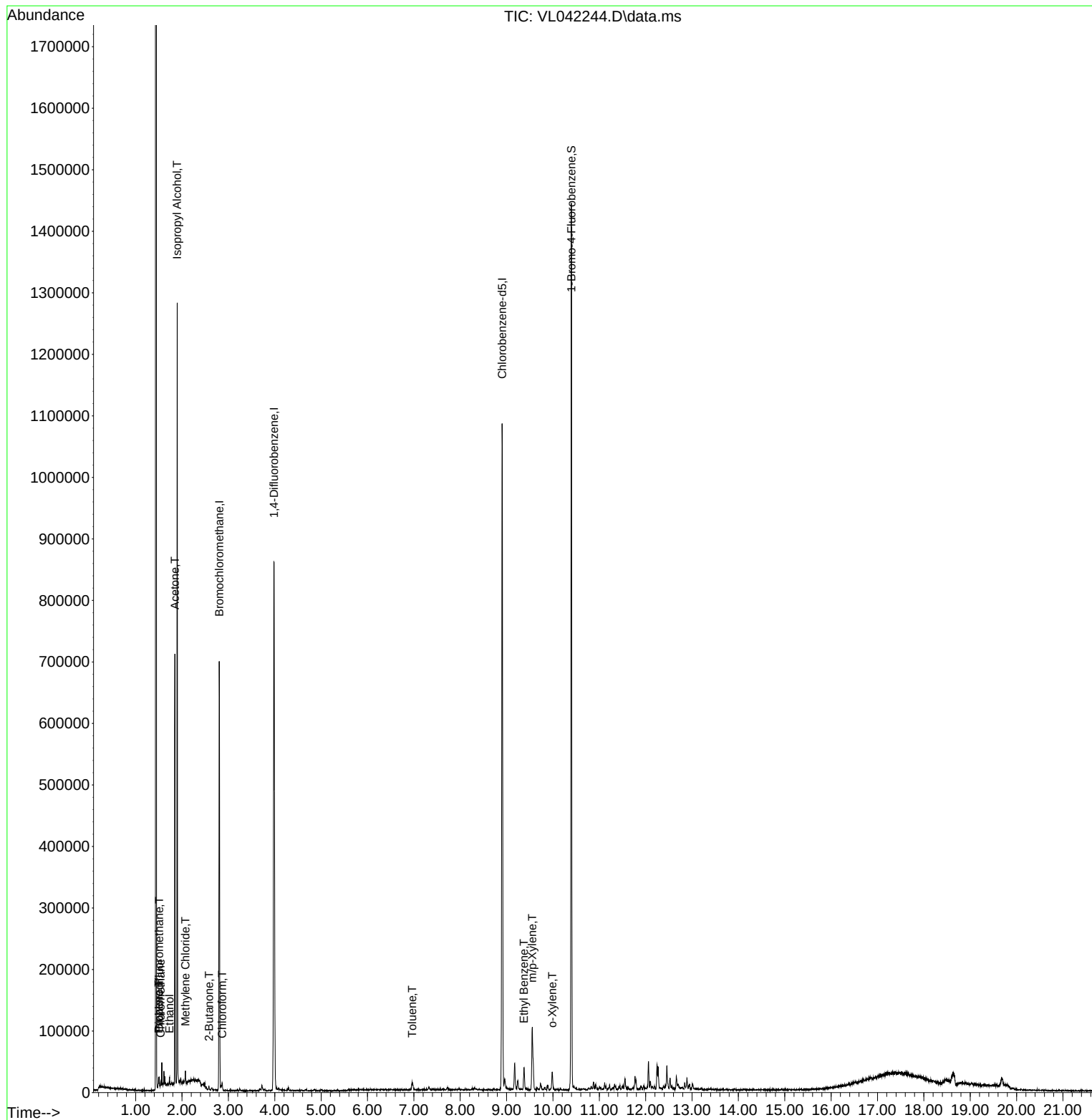
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Data File : VL042244.D
Acq On : 07 Apr 2025 22:09
Operator : SY/MD
Sample : Q1725-03DL 4X
Misc : 400mL/MSVOA_L
ALS Vial : 12 Sample Multiplier: 1

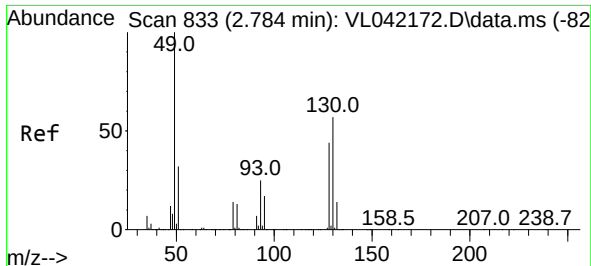
Instrument :
MSVOA_L
ClientSampleId :
SSSG-DUP-2-04012025DL

Quant Time: Apr 08 01:37:01 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Fri Mar 28 02:00:52 2025
Response via : Initial Calibration

Manual Integrations
APPROVED

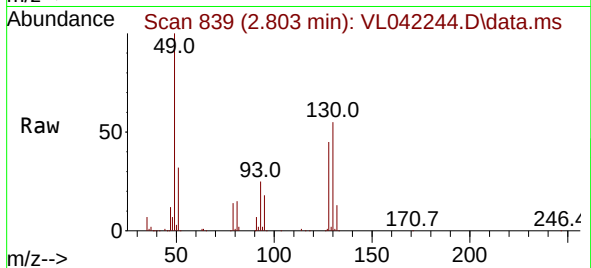
Reviewed By :Semsettin Yesilyurt 04/08/2025
Supervised By :Mahesh Dadoda 04/09/2025





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.803 min Scan# 81
Delta R.T. 0.019 min
Lab File: VL042244.D
Acq: 07 Apr 2025 22:09

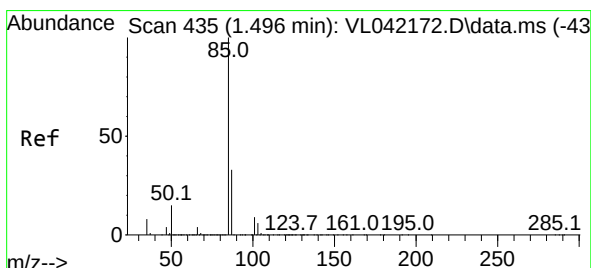
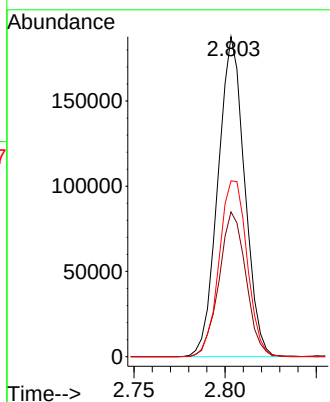
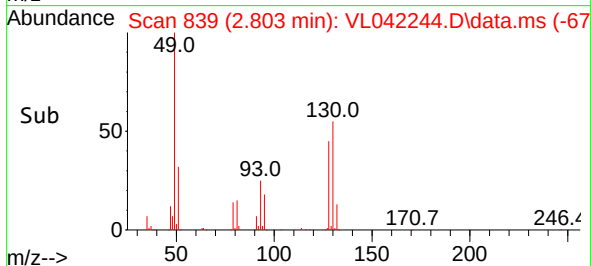
Instrument :
MSVOA_L
ClientSampleId :
SSSG-DUP-2-04012025DL



Tgt Ion: 49 Resp: 190938
Ion Ratio Lower Upper
49 100
128 45.6 22.9 68.5
130 57.8 28.8 86.4

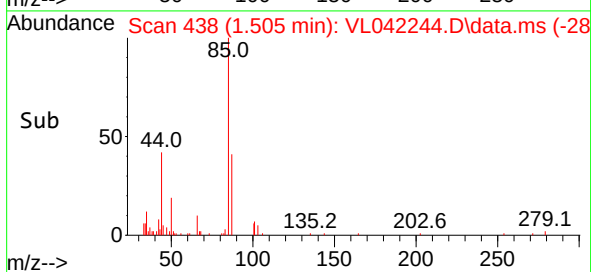
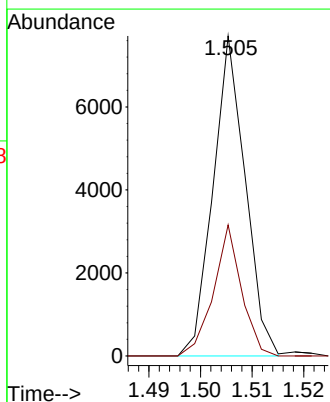
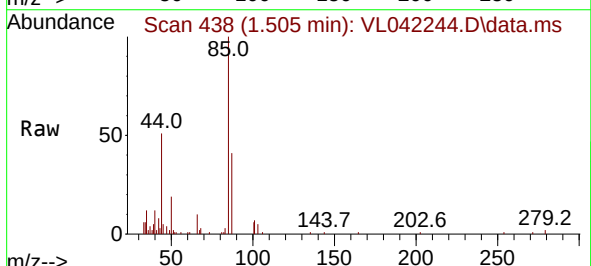
Manual Integrations
APPROVED

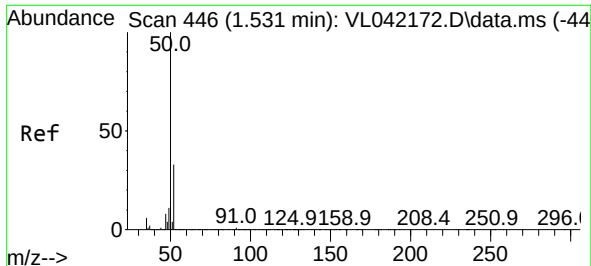
Reviewed By :Semsettin Yesilyurt 04/08/2025
Supervised By :Mahesh Dadoda 04/09/2025



#2
Dichlorodifluoromethane
Concen: 0.119 ppbv
RT: 1.505 min Scan# 438
Delta R.T. 0.010 min
Lab File: VL042244.D
Acq: 07 Apr 2025 22:09

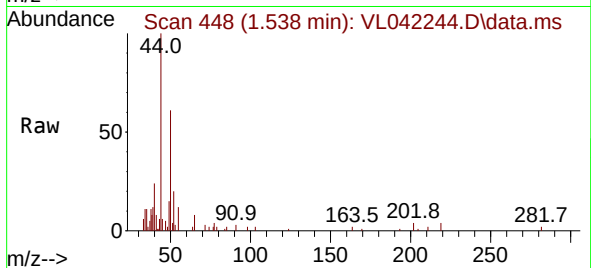
Tgt Ion: 85 Resp: 3344
Ion Ratio Lower Upper
85 100
87 41.0 26.1 39.1#





#4
Chloromethane
Concen: 0.133 ppbv
RT: 1.538 min Scan# 448
Delta R.T. 0.006 min
Lab File: VL042244.D
Acq: 07 Apr 2025 22:09

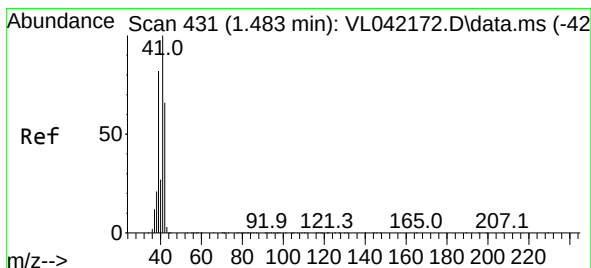
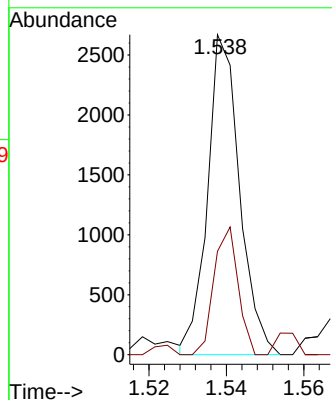
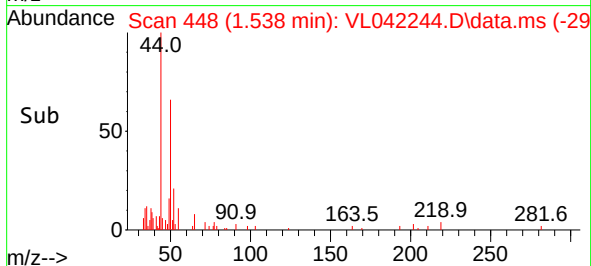
Instrument :
MSVOA_L
ClientSampleId :
SSSG-DUP-2-04012025DL



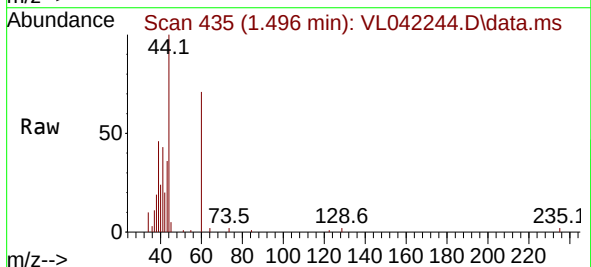
Tgt Ion: 50 Resp: 1532
Ion Ratio Lower Upper
50 100
52 32.3 26.1 39.1

Manual Integrations
APPROVED

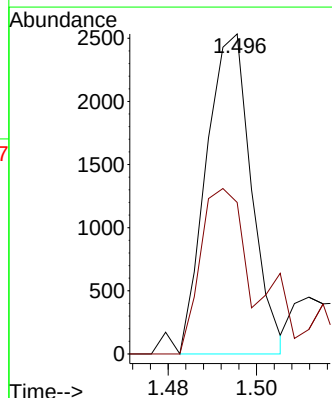
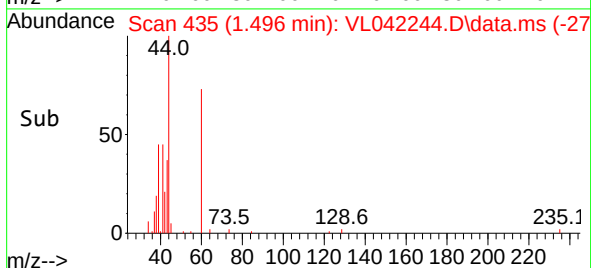
Reviewed By :Semsettin Yesilyurt 04/08/2025
Supervised By :Mahesh Dadoda 04/09/2025

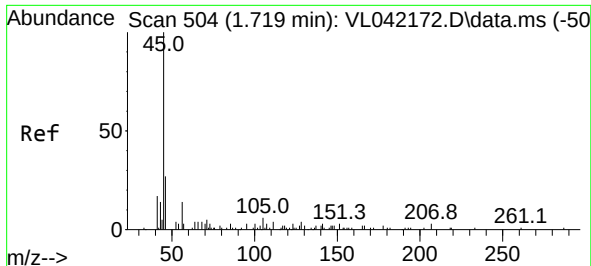


#9
Propene
Concen: 0.136 ppbv
RT: 1.496 min Scan# 435
Delta R.T. 0.013 min
Lab File: VL042244.D
Acq: 07 Apr 2025 22:09



Tgt Ion: 41 Resp: 1795
Ion Ratio Lower Upper
41 100
42 71.2 55.4 83.2





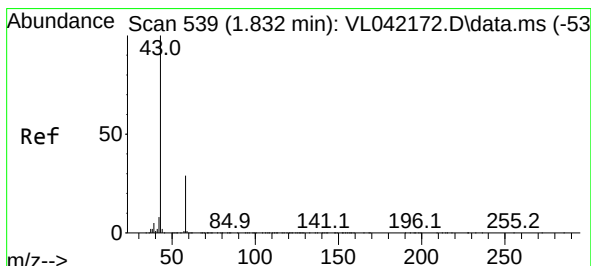
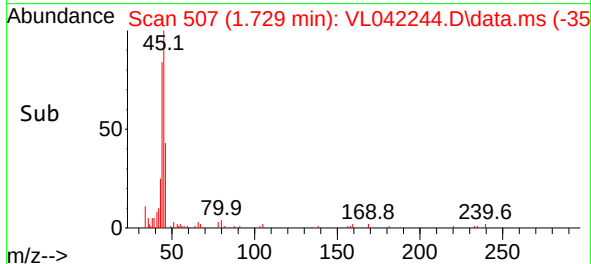
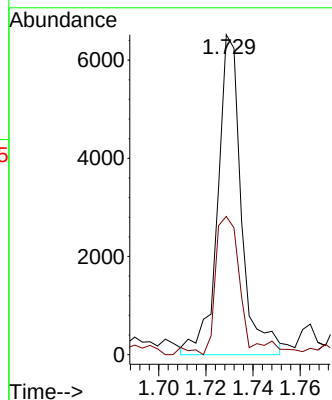
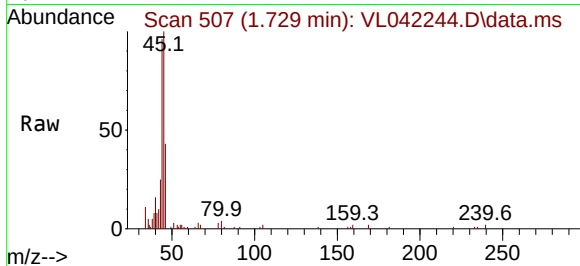
#13
Ethanol
Concen: 3.647 ppbv m
RT: 1.729 min Scan# 504
Delta R.T. 0.010 min
Lab File: VL042244.D
Acq: 07 Apr 2025 22:09

Instrument :
MSVOA_L
ClientSampleId :
SSSG-DUP-2-04012025DL

Tgt Ion: 45 Resp: 455
Ion Ratio Lower Upper
45 100
46 277.6 20.2 80.8

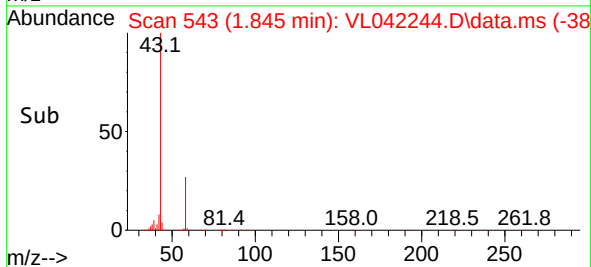
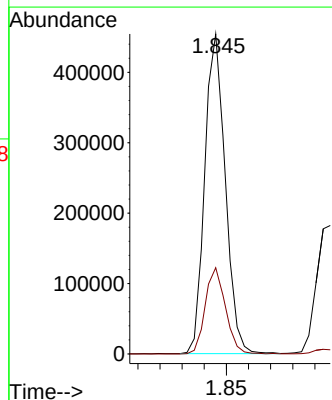
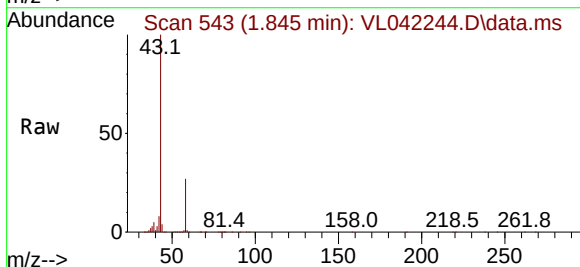
Manual Integrations
APPROVED

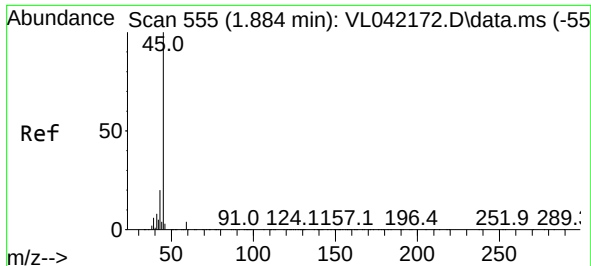
Reviewed By :Semsettin Yesilyurt 04/08/2025
Supervised By :Mahesh Dadoda 04/09/2025



#15
Acetone
Concen: 10.929 ppbv
RT: 1.845 min Scan# 543
Delta R.T. 0.013 min
Lab File: VL042244.D
Acq: 07 Apr 2025 22:09

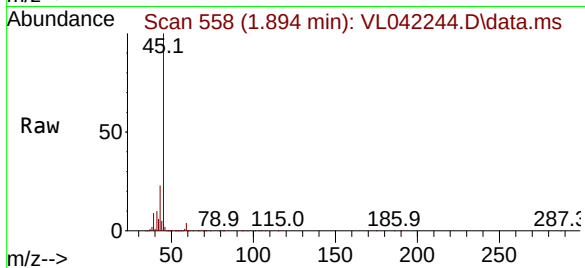
Tgt Ion: 43 Resp: 291841
Ion Ratio Lower Upper
43 100
58 26.6 23.2 34.8





#19
Isopropyl Alcohol
Concen: 36.345 ppbv
RT: 1.894 min Scan# 510
Delta R.T. 0.010 min
Lab File: VL042244.D
Acq: 07 Apr 2025 22:09

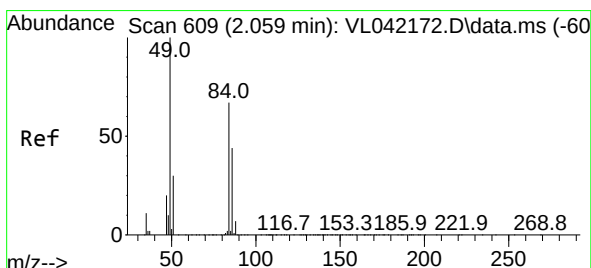
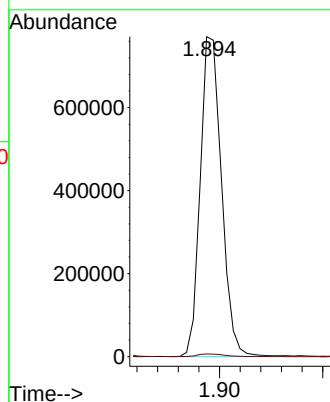
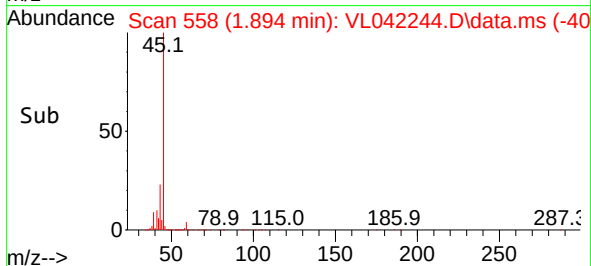
Instrument :
MSVOA_L
ClientSampleId :
SSSG-DUP-2-04012025DL



Tgt Ion: 45 Resp: 547602
Ion Ratio Lower Upper
45 100
58 1.2 36.9 55.3

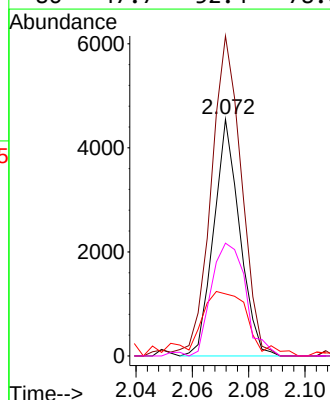
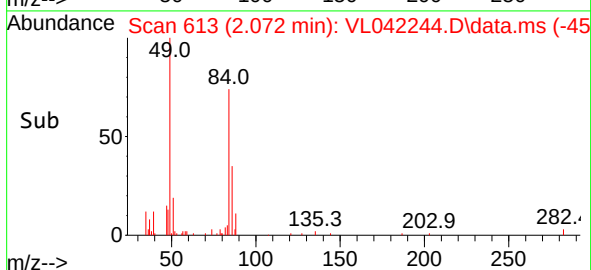
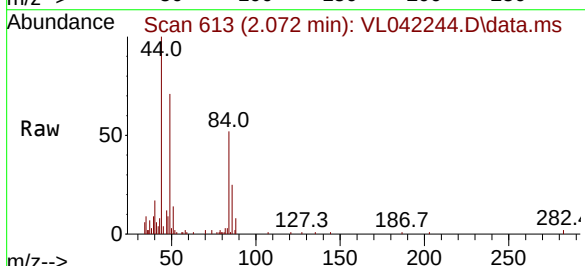
Manual Integrations
APPROVED

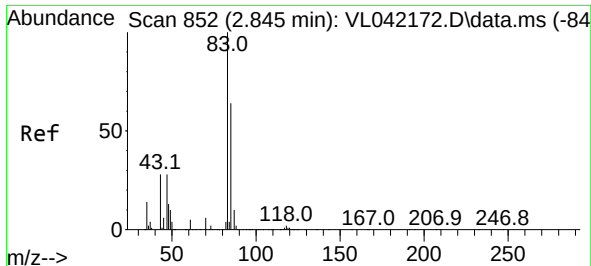
Reviewed By :Semsettin Yesilyurt 04/08/2025
Supervised By :Mahesh Dadoda 04/09/2025



#20
Methylene Chloride
Concen: 0.293 ppbv
RT: 2.072 min Scan# 613
Delta R.T. 0.013 min
Lab File: VL042244.D
Acq: 07 Apr 2025 22:09

Tgt Ion: 84 Resp: 2917
Ion Ratio Lower Upper
84 100
49 135.2 120.2 180.4
51 24.3 37.4 56.0#
86 47.7 52.4 78.6#





#29

Chloroform

Concen: 0.107 ppbv

RT: 2.865 min Scan# 8

Delta R.T. 0.019 min

Lab File: VL042244.D

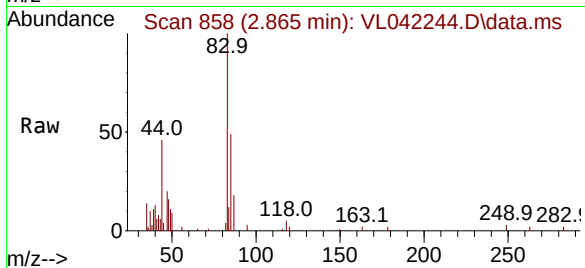
Acq: 07 Apr 2025 22:09

Instrument :

MSVOA_L

ClientSampleId :

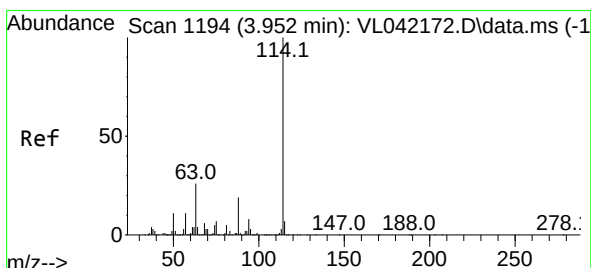
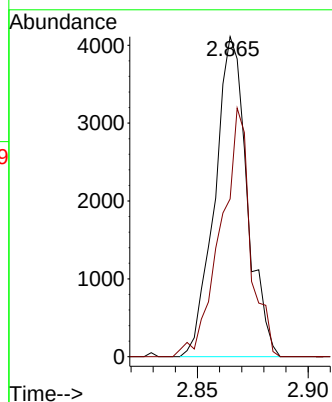
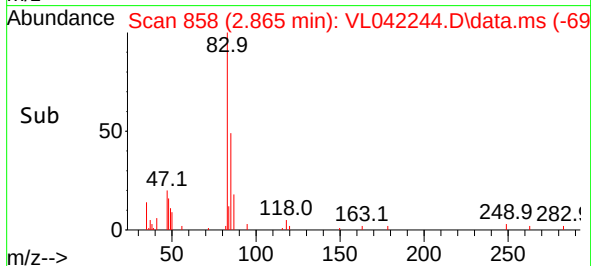
SSSG-DUP-2-04012025DL



Tgt Ion: 83 Resp: 4185
 Ion Ratio Lower Upper
 83 100
 85 49.3 51.4 77.2

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 04/08/2025
 Supervised By :Mahesh Dadoda 04/09/2025



#33

1,4-Difluorobenzene

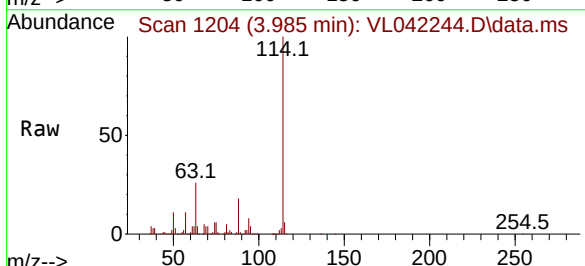
Concen: 10.000 ppbv

RT: 3.985 min Scan# 1204

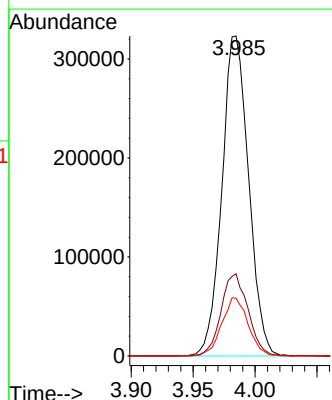
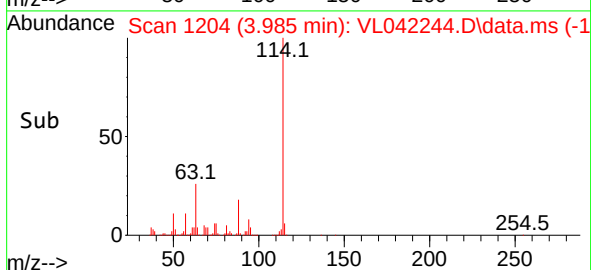
Delta R.T. 0.032 min

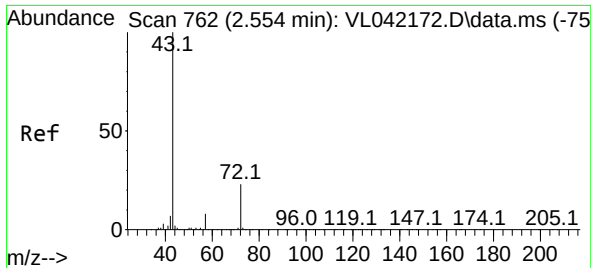
Lab File: VL042244.D

Acq: 07 Apr 2025 22:09



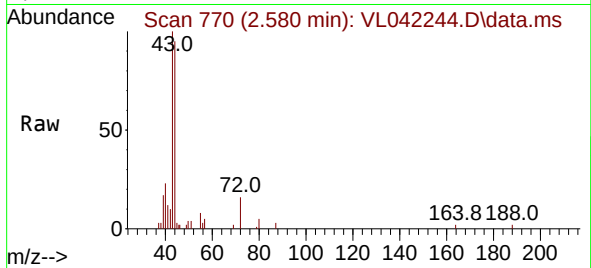
Tgt Ion:114 Resp: 485801
 Ion Ratio Lower Upper
 114 100
 63 26.0 20.7 31.1
 88 17.9 15.0 22.4





#34
2-Butanone
Concen: 0.106 ppbv
RT: 2.580 min Scan# 71
Delta R.T. 0.026 min
Lab File: VL042244.D
Acq: 07 Apr 2025 22:09

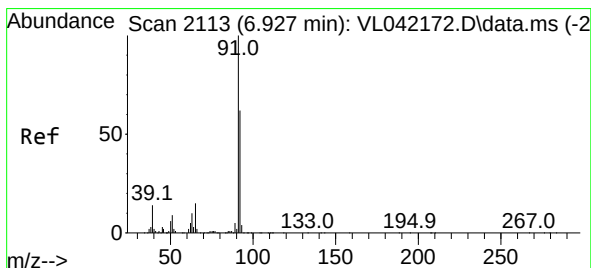
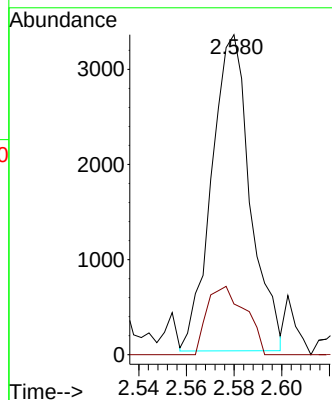
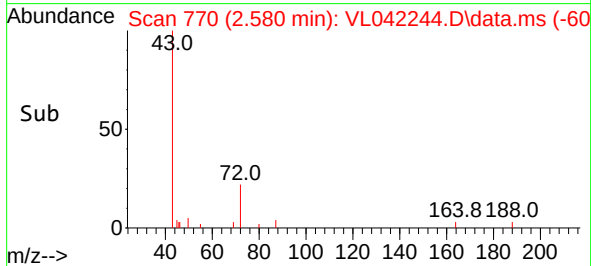
Instrument :
MSVOA_L
ClientSampleId :
SSSG-DUP-2-04012025DL



Tgt Ion: 43 Resp: 375
Ion Ratio Lower Upper
43 100
72 21.4 18.2 27.2

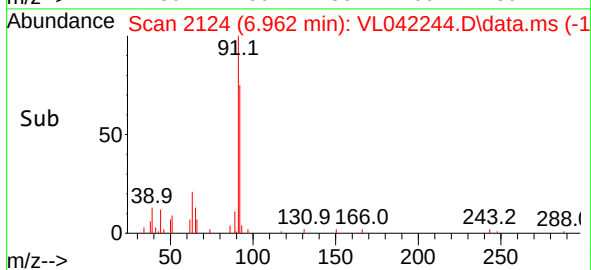
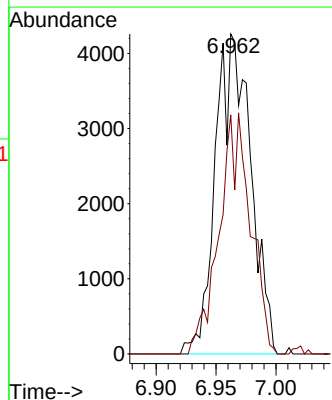
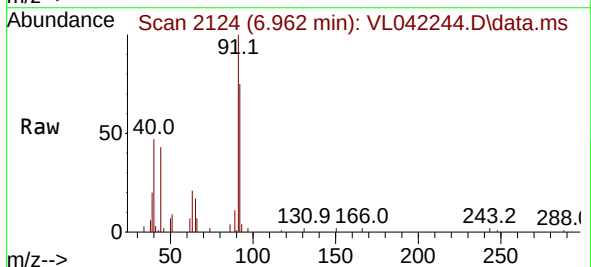
Manual Integrations
APPROVED

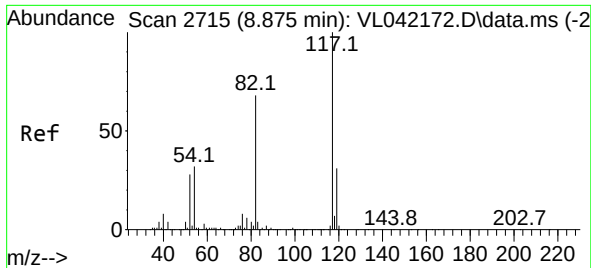
Reviewed By :Semsettin Yesilyurt 04/08/2025
Supervised By :Mahesh Dadoda 04/09/2025



#53
Toluene
Concen: 0.153 ppbv m
RT: 6.962 min Scan# 2124
Delta R.T. 0.035 min
Lab File: VL042244.D
Acq: 07 Apr 2025 22:09

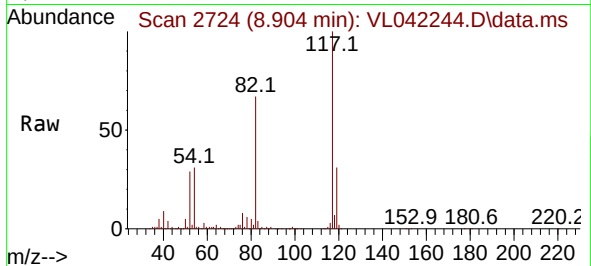
Tgt Ion: 91 Resp: 8739
Ion Ratio Lower Upper
91 100
92 67.8 48.4 72.6





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.904 min Scan# 21
Delta R.T. 0.029 min
Lab File: VL042244.D
Acq: 07 Apr 2025 22:09

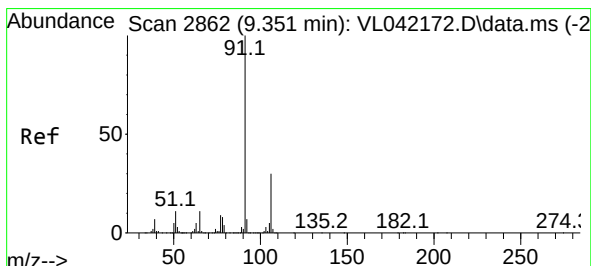
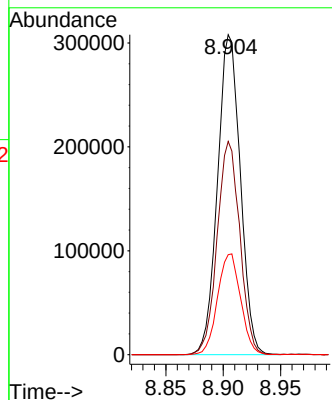
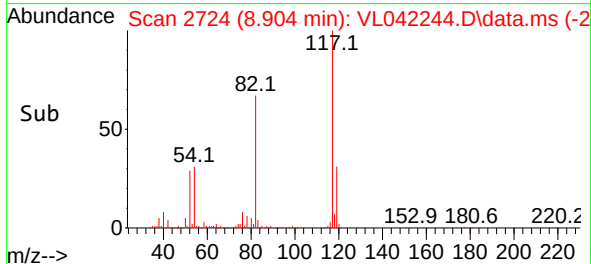
Instrument :
MSVOA_L
ClientSampleId :
SSSG-DUP-2-04012025DL



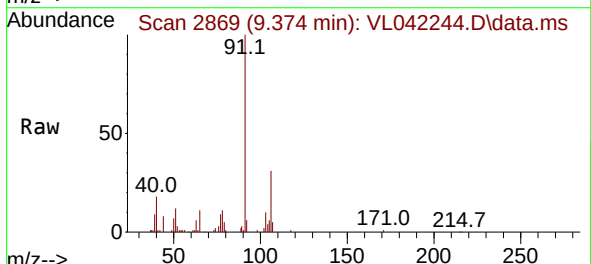
Tgt Ion: 117 Resp: 425989
Ion Ratio Lower Upper
117 100
82 66.3 55.8 83.6
119 31.9 25.5 38.3

Manual Integrations
APPROVED

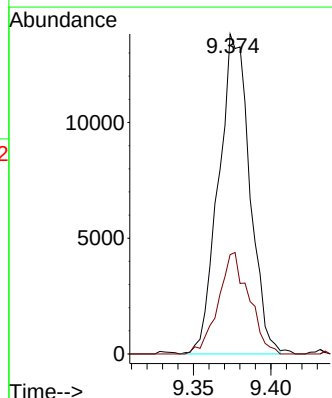
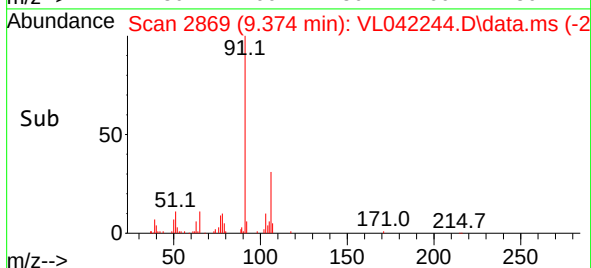
Reviewed By :Semsettin Yesilyurt 04/08/2025
Supervised By :Mahesh Dadoda 04/09/2025

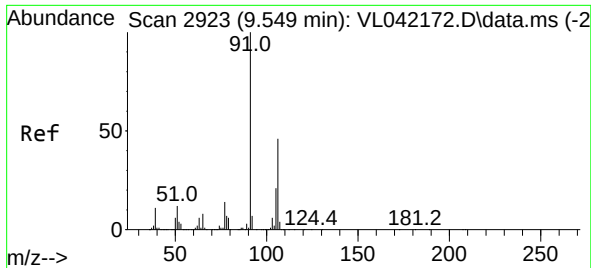


#58
Ethyl Benzene
Concen: 0.256 ppbv
RT: 9.374 min Scan# 2869
Delta R.T. 0.023 min
Lab File: VL042244.D
Acq: 07 Apr 2025 22:09



Tgt Ion: 91 Resp: 19351
Ion Ratio Lower Upper
91 100
106 31.0 24.2 36.2





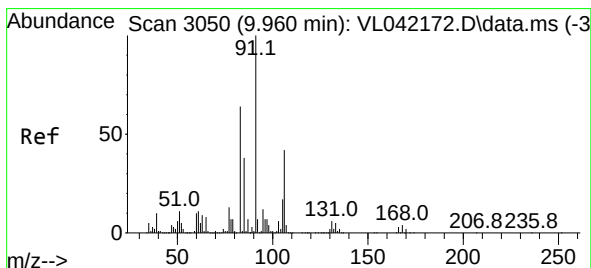
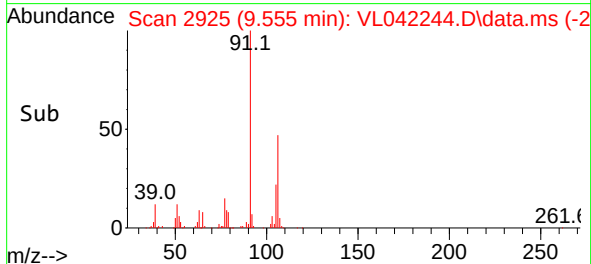
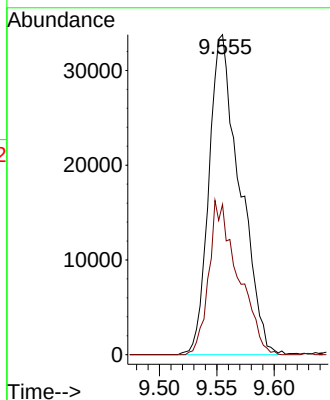
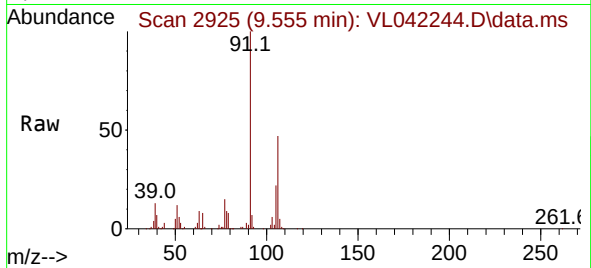
#59
m/p-Xylene
Concen: 1.047 ppbv
RT: 9.555 min Scan# 2925
Delta R.T. 0.006 min
Lab File: VL042244.D
Acq: 07 Apr 2025 22:09

Instrument : MSVOA_L
ClientSampleId : SSSG-DUP-2-04012025DL

Tgt Ion: 91 Resp: 6326
Ion Ratio Lower Upper
91 100
106 45.6 36.4 54.6

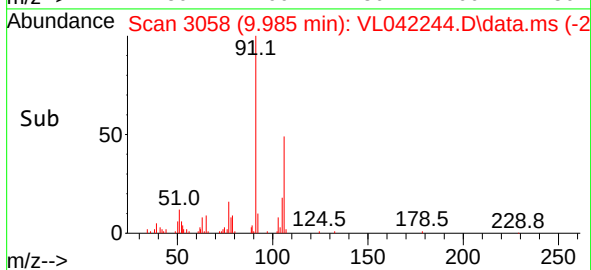
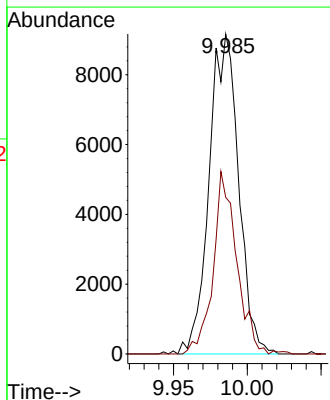
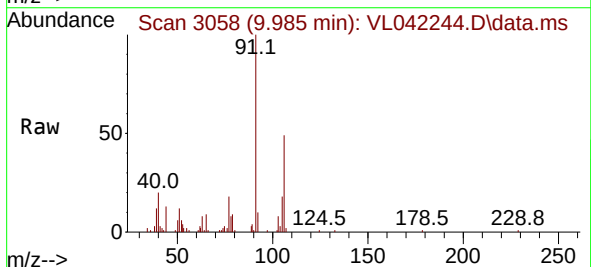
Manual Integrations
APPROVED

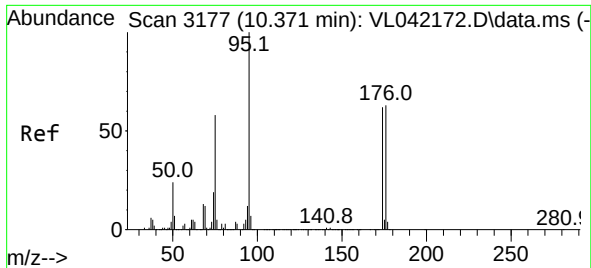
Reviewed By :Semsettin Yesilyurt 04/08/2025
Supervised By :Mahesh Dadoda 04/09/2025



#60
o-Xylene
Concen: 0.210 ppbv
RT: 9.985 min Scan# 3058
Delta R.T. 0.026 min
Lab File: VL042244.D
Acq: 07 Apr 2025 22:09

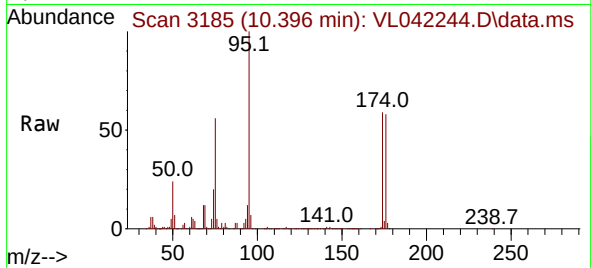
Tgt Ion: 91 Resp: 12718
Ion Ratio Lower Upper
91 100
106 45.7 20.8 62.5





#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.890 ppbv
 RT: 10.396 min Scan# 3177
 Delta R.T. 0.026 min
 Lab File: VL042244.D
 Acq: 07 Apr 2025 22:09

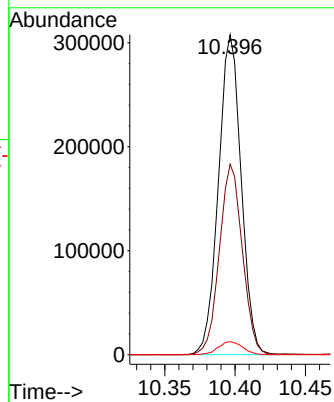
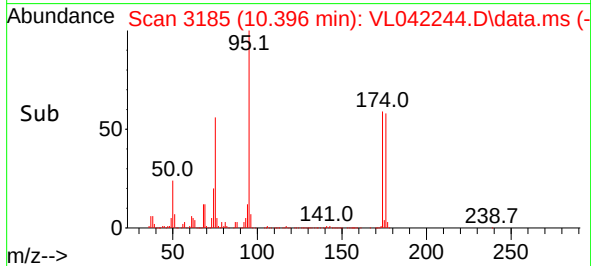
Instrument : MSVOA_L
 ClientSampleId : SSSG-DUP-2-04012025DL



Tgt Ion: 95 Resp: 34597
 Ion Ratio Lower Upper
 95 100
 174 60.2 50.6 76.0
 175 4.4 3.8 5.6

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 04/08/2025
 Supervised By :Mahesh Dadoda 04/09/2025



Report of Analysis

Client:	Woodard & Curran	Date Collected:	04/01/25
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	04/03/25
Client Sample ID:	AA-1-03312025	SDG No.:	Q1725
Lab Sample ID:	Q1725-04	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042231.D	1		04/07/25 12:27	VL040725

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.40	1.98	J	1.04	2.47	ug/m3
74-87-3	Chloromethane	0.58	1.20		0.21	1.03	ug/m3
75-01-4	Vinyl Chloride	0.010	0.030	U	0.030	0.080	ug/m3
74-83-9	Bromomethane	0.14	0.54	U	0.54	1.94	ug/m3
75-00-3	Chloroethane	0.17	0.45	U	0.45	1.32	ug/m3
109-99-9	Tetrahydrofuran	0.13	0.38	U	0.38	1.47	ug/m3
75-69-4	Trichlorofluoromethane	0.21	1.18	J	0.90	2.81	ug/m3
76-13-1	1,1,2-Trichlorotrifluoroethane	0.16	1.23	U	1.23	3.83	ug/m3
76-14-2	Dichlorotetrafluoroethane	0.090	0.63	U	0.63	3.49	ug/m3
75-65-0	tert-Butyl alcohol	0.19	0.58	U	0.58	1.52	ug/m3
142-82-5	Heptane	0.11	0.45	J	0.45	2.05	ug/m3
75-35-4	1,1-Dichloroethene	0.14	0.56	U	0.56	1.98	ug/m3
67-64-1	Acetone	5.10	12.1		0.57	1.19	ug/m3
75-15-0	Carbon Disulfide	0.16	0.50	U	0.50	1.56	ug/m3
1634-04-4	Methyl tert-Butyl Ether	0.12	0.43	U	0.43	1.80	ug/m3
75-09-2	Methylene Chloride	0.40	1.39	J	0.66	1.74	ug/m3
156-60-5	trans-1,2-Dichloroethene	0.19	0.75	U	0.75	1.98	ug/m3
75-34-3	1,1-Dichloroethane	0.13	0.53	U	0.53	2.02	ug/m3
110-82-7	Cyclohexane	0.22	0.76	U	0.76	1.72	ug/m3
78-93-3	2-Butanone	0.53	1.56		0.35	1.47	ug/m3
56-23-5	Carbon Tetrachloride	0.070	0.44		0.060	0.19	ug/m3
156-59-2	cis-1,2-Dichloroethene	0.090	0.36	U	0.36	1.98	ug/m3
67-66-3	Chloroform	0.080	0.39	U	0.39	2.44	ug/m3
71-55-6	1,1,1-Trichloroethane	0.010	0.050	U	0.050	0.16	ug/m3
540-84-1	2,2,4-Trimethylpentane	0.10	0.47	U	0.47	2.34	ug/m3
71-43-2	Benzene	0.14	0.45	J	0.29	1.60	ug/m3
107-06-2	1,2-Dichloroethane	0.090	0.36	U	0.36	2.02	ug/m3
79-01-6	Trichloroethene	0.020	0.11	U	0.11	0.16	ug/m3
78-87-5	1,2-Dichloropropane	0.11	0.51	U	0.51	2.31	ug/m3
75-27-4	Bromodichloromethane	0.080	0.54	U	0.54	3.35	ug/m3
108-10-1	4-Methyl-2-Pentanone	0.13	0.53	J	0.37	2.05	ug/m3
108-88-3	Toluene	0.61	2.30		0.41	1.88	ug/m3
10061-02-6	t-1,3-Dichloropropene	0.060	0.27	U	0.27	2.27	ug/m3
10061-01-5	cis-1,3-Dichloropropene	0.060	0.27	U	0.27	2.27	ug/m3
79-00-5	1,1,2-Trichloroethane	0.070	0.38	U	0.38	2.73	ug/m3

Report of Analysis

Client:	Woodard & Curran	Date Collected:	04/01/25
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	04/03/25
Client Sample ID:	AA-1-03312025	SDG No.:	Q1725
Lab Sample ID:	Q1725-04	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042231.D	1		04/07/25 12:27	VL040725

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
124-48-1	Dibromochloromethane	0.070	0.60	U	0.60	4.26	ug/m3
106-93-4	1,2-Dibromoethane	0.070	0.54	U	0.54	0.77	ug/m3
127-18-4	Tetrachloroethene	0.020	0.14	U	0.14	0.20	ug/m3
108-90-7	Chlorobenzene	0.080	0.37	U	0.37	2.30	ug/m3
100-41-4	Ethyl Benzene	0.12	0.52	U	0.52	2.17	ug/m3
179601-23-1	m/p-Xylene	0.22	0.96	J	0.91	4.34	ug/m3
95-47-6	o-Xylene	0.12	0.52	U	0.52	2.17	ug/m3
100-42-5	Styrene	0.11	0.47	U	0.47	2.13	ug/m3
75-25-2	Bromoform	0.060	0.62	U	0.62	5.17	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	0.010	0.070	U	0.070	0.21	ug/m3
95-49-8	2-Chlorotoluene	0.11	0.57	U	0.57	2.59	ug/m3
108-67-8	1,3,5-Trimethylbenzene	0.11	0.54	U	0.54	2.46	ug/m3
95-63-6	1,2,4-Trimethylbenzene	0.080	0.39	U	0.39	2.46	ug/m3
541-73-1	1,3-Dichlorobenzene	0.080	0.48	U	0.48	3.01	ug/m3
106-46-7	1,4-Dichlorobenzene	0.050	0.30	U	0.30	3.01	ug/m3
95-50-1	1,2-Dichlorobenzene	0.080	0.48	U	0.48	3.01	ug/m3
120-82-1	1,2,4-Trichlorobenzene	0.090	0.67	U	0.67	3.71	ug/m3
87-68-3	Hexachloro-1,3-Butadiene	0.090	0.96	U	0.96	5.33	ug/m3
106-99-0	1,3-Butadiene	0.13	0.29	U	0.29	1.11	ug/m3
91-20-3	Naphthalene	0.080	0.42	U	0.42	0.52	ug/m3
622-96-8	4-Ethyltoluene	0.12	0.59	U	0.59	2.46	ug/m3
110-54-3	Hexane	0.33	1.16	J	0.39	1.76	ug/m3
107-05-1	Allyl Chloride	0.15	0.47	U	0.47	1.57	ug/m3
123-91-1	1,4-Dioxane	0.21	0.76	U	0.76	1.80	ug/m3
80-62-6	Methyl Methacrylate	0.090	0.37	U	0.37	2.05	ug/m3

SURROGATES

460-00-4	1-Bromo-4-Fluorobenzene	9.70		70 (65) - 130 (135)	97%	SPK: 10

INTERNAL STANDARDS

74-97-5	Bromochloromethane	203000	2.8
540-36-3	1,4-Difluorobenzene	551000	3.978
3114-55-4	Chlorobenzene-d5	480000	8.901

TENTATIVE IDENTIFIED COMPOUNDS

75-45-6	Chlorodifluoromethane	0.28	J	1.48	ppbv
115-07-1	Propene	0.48	J	1.49	ppbv
64-17-5	Ethanol	13.2	J	1.73	ppbv

Report of Analysis

Client:	Woodard & Curran	Date Collected:	04/01/25
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	04/03/25
Client Sample ID:	AA-1-03312025	SDG No.:	Q1725
Lab Sample ID:	Q1725-04	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042231.D	1		04/07/25 12:27	VL040725

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
67-63-0	Isopropyl Alcohol	1.10		J		1.89	ppbv

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\VL040725\
 Data File : VL042231.D
 Acq On : 07 Apr 2025 12:27
 Operator : SY/MD
 Sample : Q1725-04
 Misc : 400mL/MSVOA_L
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 AA-1-03312025

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 04/08/2025
 Supervised By :Mahesh Dadoda 04/09/2025

Quant Time: Apr 08 01:30:38 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2025

QLast Update : Fri Mar 28 02:00:52 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.800	49	202620	10.000	ppbv	0.02
33) 1,4-Difluorobenzene	3.978	114	551417	10.000	ppbv	0.03
55) Chlorobenzene-d5	8.901	117	479781	10.000	ppbv	0.03
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.390	95	381172	9.674	ppbv	0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	96.700%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.502	85	12053	0.403	ppbv	95
3) Chlorodifluoromethane	1.483	51	8523m	0.279	ppbv	
4) Chloromethane	1.538	50	7078	0.579	ppbv	97
9) Propene	1.492	41	6667	0.476	ppbv #	80
10) Heptane	5.004	43	4131m	0.111	ppbv	
11) Trichlorofluoromethane	1.884	101	5976	0.205	ppbv	92
13) Ethanol	1.729	45	17438	13.168	ppbv	81
15) Acetone	1.842	43	143188	5.053	ppbv	96
19) Isopropyl Alcohol	1.894	45	17414	1.089	ppbv #	1
20) Methylene Chloride	2.072	84	4263	0.404	ppbv #	76
26) Hexane	2.842	57	9360	0.329	ppbv #	44
34) 2-Butanone	2.573	43	21340	0.534	ppbv	92
35) Carbon Tetrachloride	3.784	117	2850m	0.066	ppbv	
36) Benzene	3.671	78	7483	0.137	ppbv #	91
50) 4-Methyl-2-Pentanone	5.804	43	8496m	0.134	ppbv	
53) Toluene	6.959	91	39177m	0.605	ppbv	
59) m/p-Xylene	9.545	91	14796m	0.217	ppbv	

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

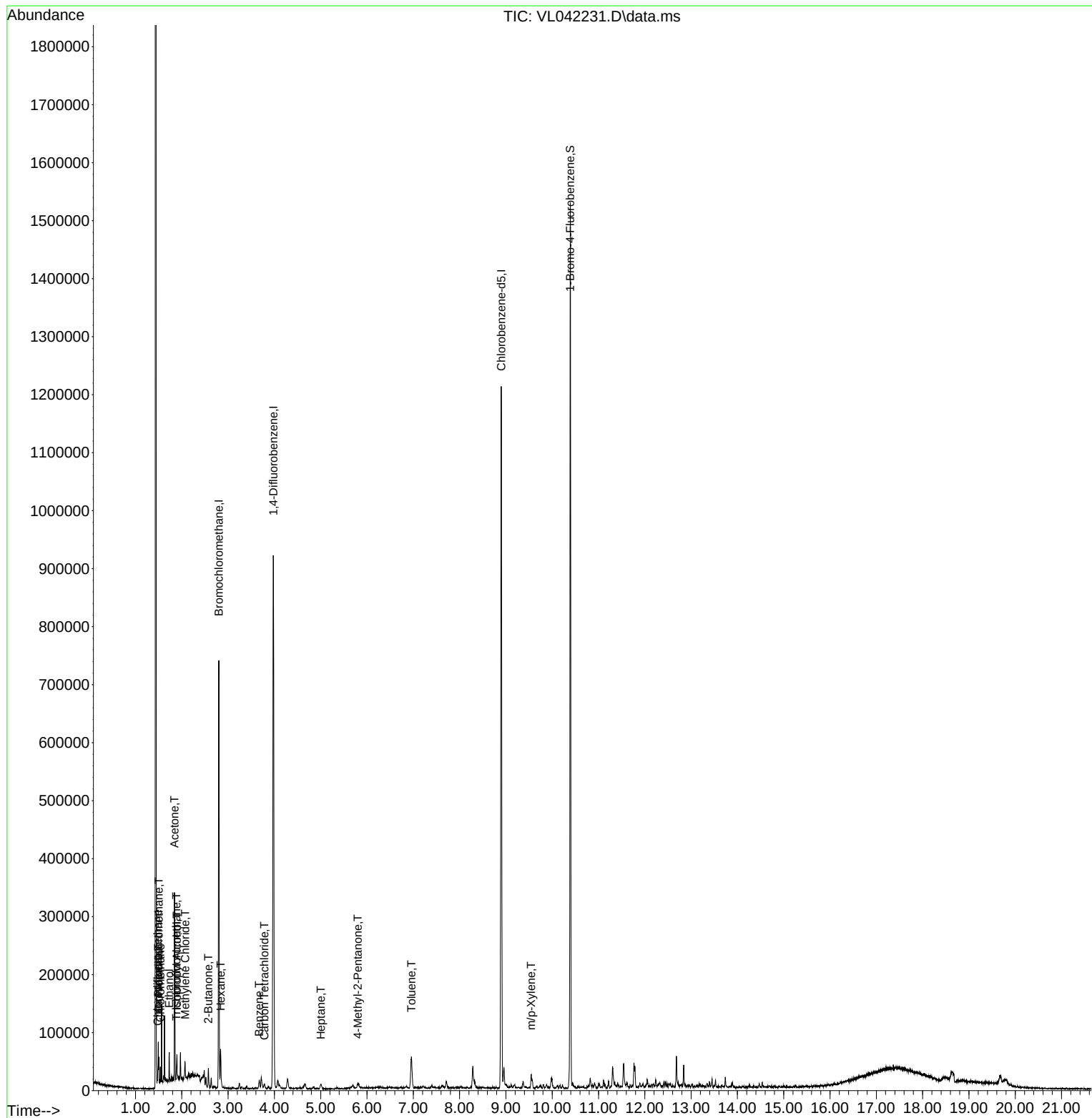
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Data File : VL042231.D
Acq On : 07 Apr 2025 12:27
Operator : SY/MD
Sample : Q1725-04
Misc : 400mL/MSVOA_L
ALS Vial : 5 Sample Multiplier: 1

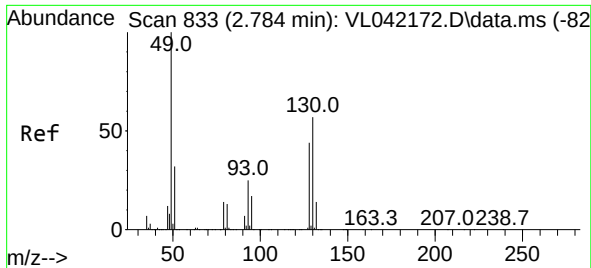
Instrument :
MSVOA_L
ClientSampleId :
AA-1-03312025

Quant Time: Apr 08 01:30:38 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Fri Mar 28 02:00:52 2025
Response via : Initial Calibration

Manual Integrations
APPROVED

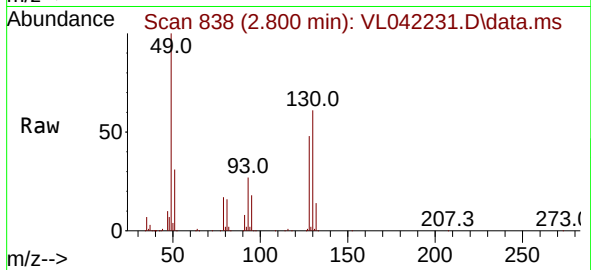
Reviewed By : Semsettin Yesilyurt 04/08/2025
Supervised By : Mahesh Dadoda 04/09/2025





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.800 min Scan# 81
Delta R.T. 0.016 min
Lab File: VL042231.D
Acq: 07 Apr 2025 12:27

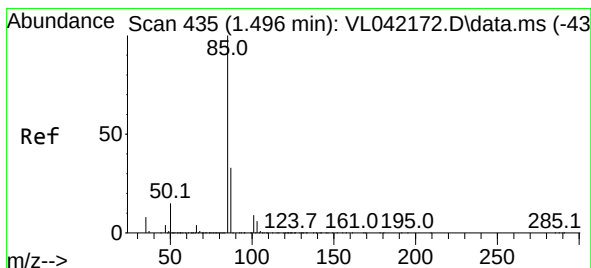
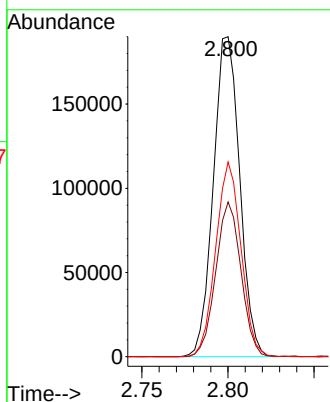
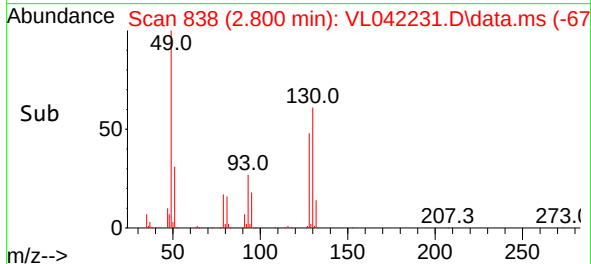
Instrument :
MSVOA_L
ClientSampleId :
AA-1-03312025



Tgt Ion: 49 Resp: 202620
Ion Ratio Lower Upper
49 100
128 46.2 22.9 68.5
130 58.4 28.8 86.4

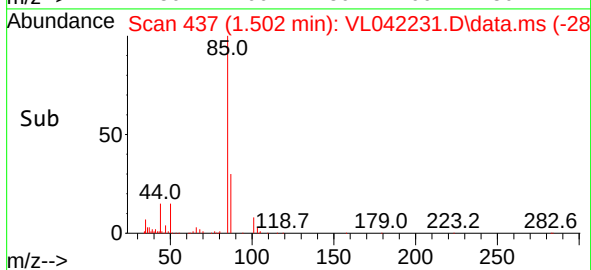
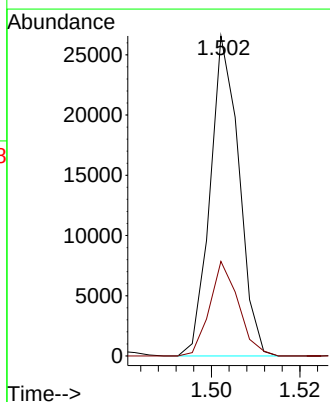
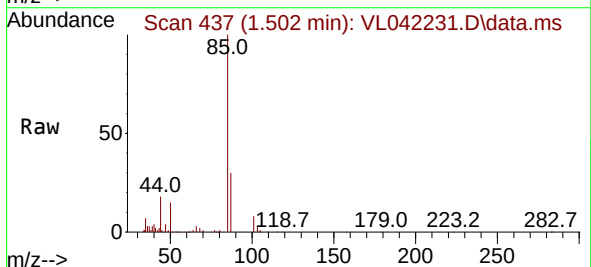
Manual Integrations
APPROVED

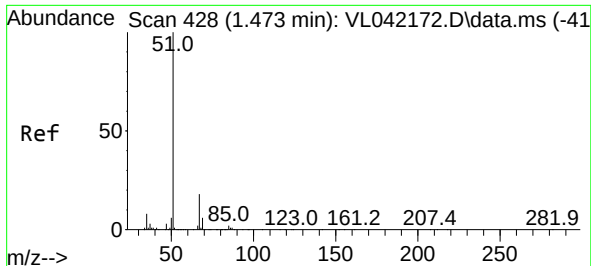
Reviewed By :Semsettin Yesilyurt 04/08/2025
Supervised By :Mahesh Dadoda 04/09/2025



#2
Dichlorodifluoromethane
Concen: 0.403 ppbv
RT: 1.502 min Scan# 437
Delta R.T. 0.006 min
Lab File: VL042231.D
Acq: 07 Apr 2025 12:27

Tgt Ion: 85 Resp: 12053
Ion Ratio Lower Upper
85 100
87 29.6 26.1 39.1





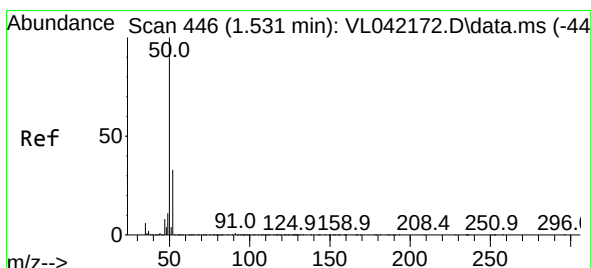
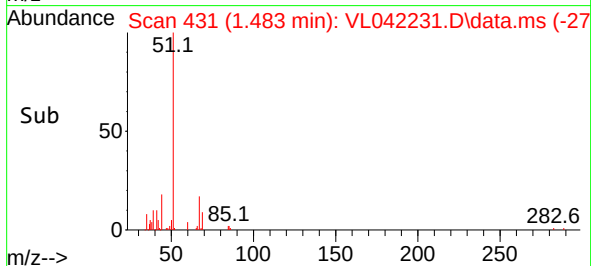
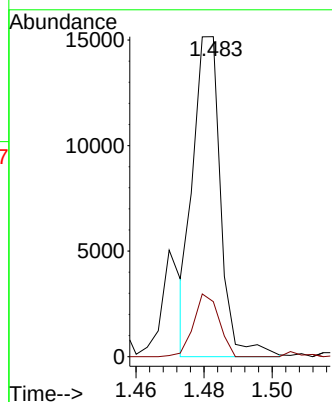
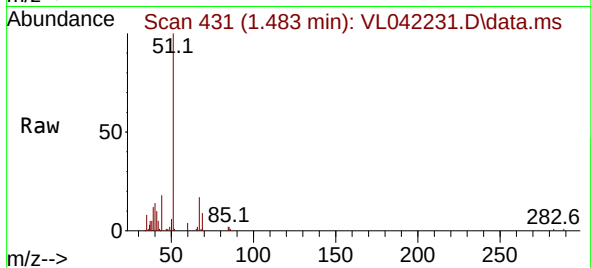
#3
Chlorodifluoromethane
Concen: 0.279 ppbv m
RT: 1.483 min Scan# 41
Delta R.T. 0.010 min
Lab File: VL042231.D
Acq: 07 Apr 2025 12:27

Instrument :
MSVOA_L
ClientSampleId :
AA-1-03312025

Tgt Ion: 51 Resp: 852
Ion Ratio Lower Upper
51 100
67 2.4 15.0 22.6

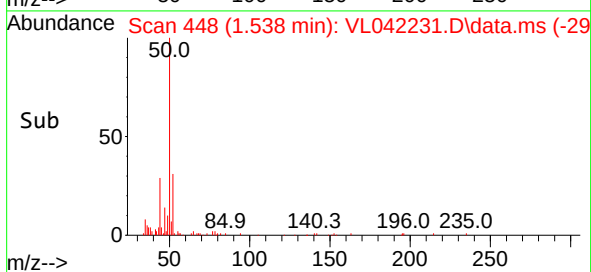
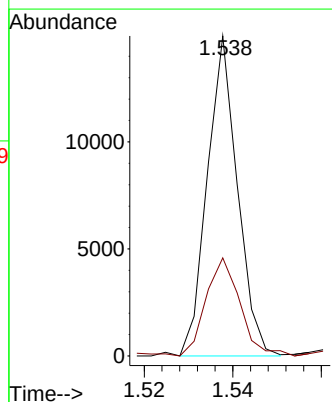
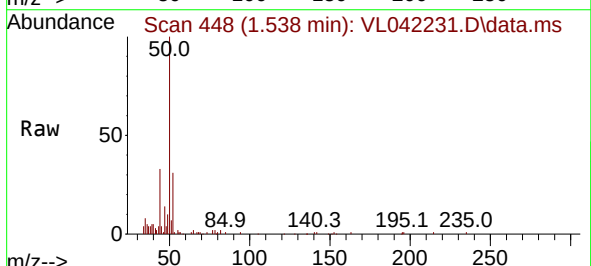
Manual Integrations
APPROVED

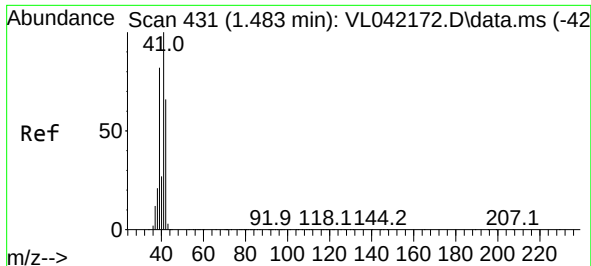
Reviewed By :Semsettin Yesilyurt 04/08/2025
Supervised By :Mahesh Dadoda 04/09/2025



#4
Chloromethane
Concen: 0.579 ppbv
RT: 1.538 min Scan# 448
Delta R.T. 0.006 min
Lab File: VL042231.D
Acq: 07 Apr 2025 12:27

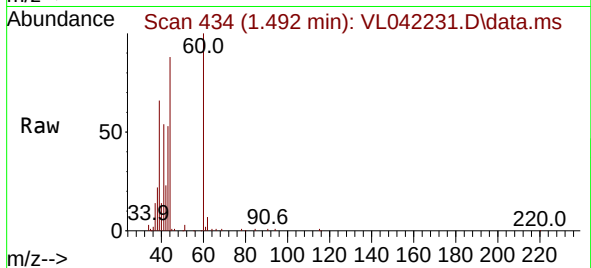
Tgt Ion: 50 Resp: 7078
Ion Ratio Lower Upper
50 100
52 30.8 26.1 39.1





#9
Propene
Concen: 0.476 ppbv
RT: 1.492 min Scan# 41
Delta R.T. 0.010 min
Lab File: VL042231.D
Acq: 07 Apr 2025 12:27

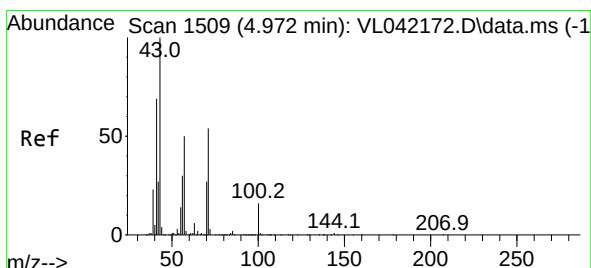
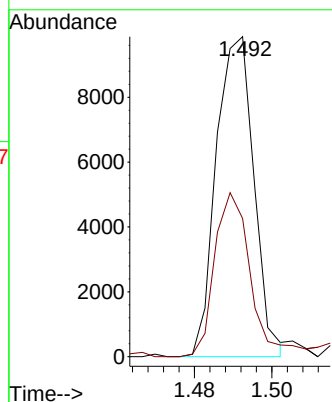
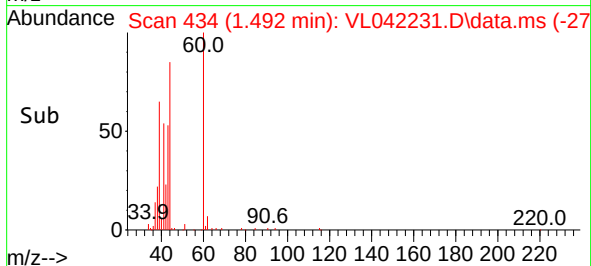
Instrument :
MSVOA_L
ClientSampleId :
AA-1-03312025



Tgt Ion: 41 Resp: 666
Ion Ratio Lower Upper
41 100
42 52.8 55.4 83.2

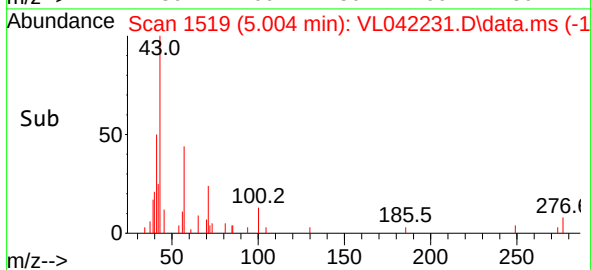
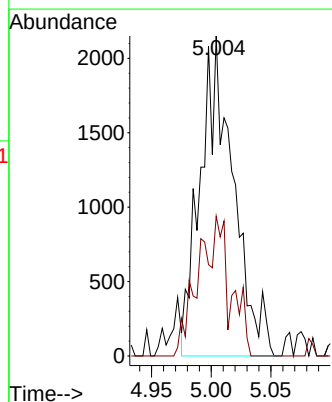
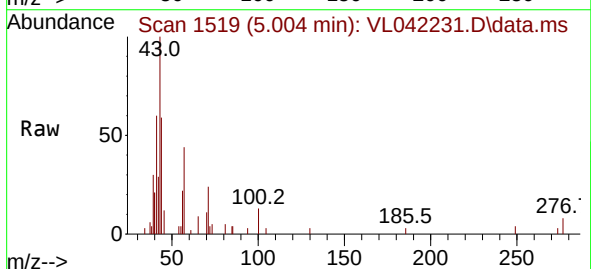
Manual Integrations
APPROVED

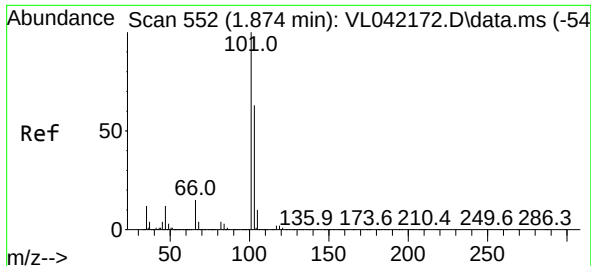
Reviewed By :Semsettin Yesilyurt 04/08/2025
Supervised By :Mahesh Dadoda 04/09/2025



#10
Heptane
Concen: 0.111 ppbv m
RT: 5.004 min Scan# 1519
Delta R.T. 0.032 min
Lab File: VL042231.D
Acq: 07 Apr 2025 12:27

Tgt Ion: 43 Resp: 4131
Ion Ratio Lower Upper
43 100
57 0.0 39.4 59.2





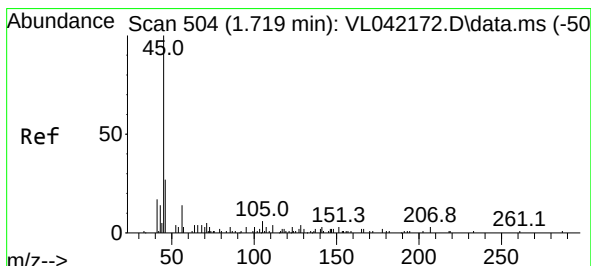
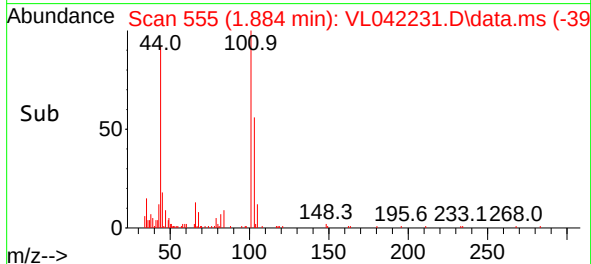
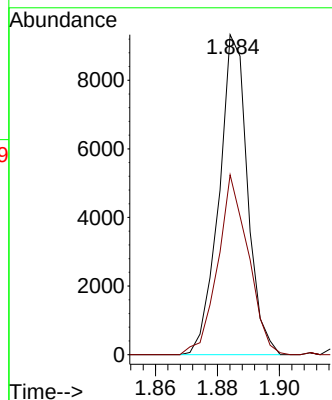
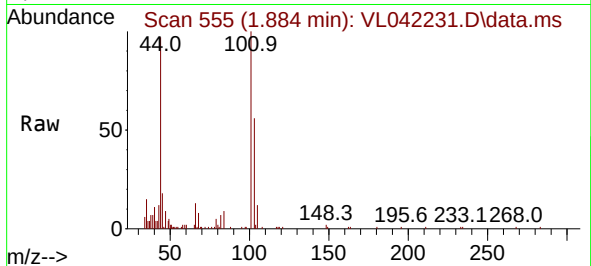
#11
Trichlorofluoromethane
Concen: 0.205 ppbv
RT: 1.884 min Scan# 507
Delta R.T. 0.010 min
Lab File: VL042231.D
Acq: 07 Apr 2025 12:27

Instrument :
MSVOA_L
ClientSampleId :
AA-1-03312025

Tgt Ion:101 Resp: 5970
Ion Ratio Lower Upper
101 100
103 56.2 50.2 75.2

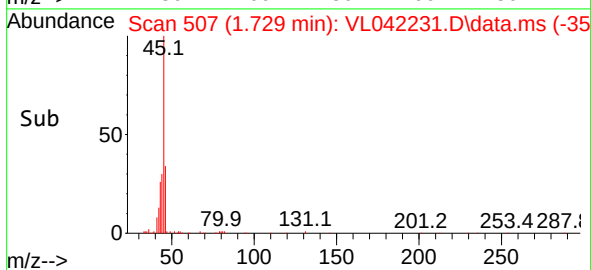
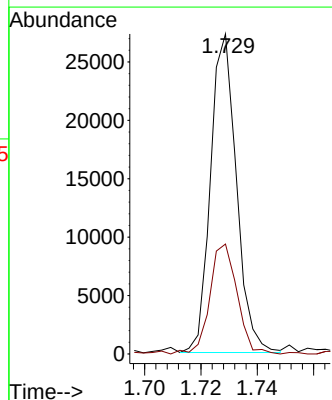
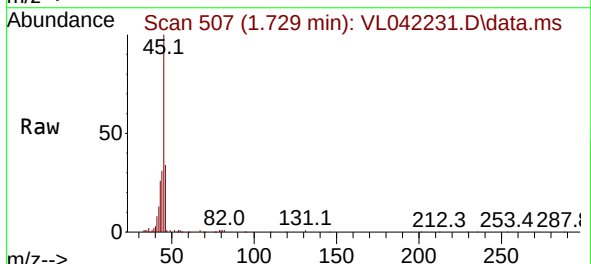
Manual Integrations
APPROVED

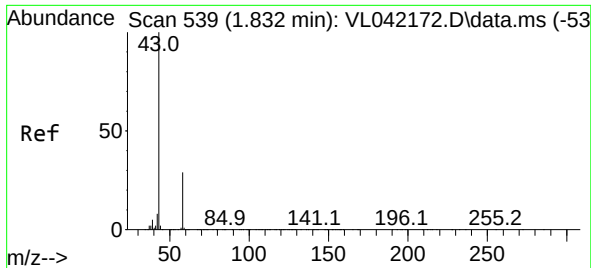
Reviewed By :Semsettin Yesilyurt 04/08/2025
Supervised By :Mahesh Dadoda 04/09/2025



#13
Ethanol
Concen: 13.168 ppbv
RT: 1.729 min Scan# 507
Delta R.T. 0.010 min
Lab File: VL042231.D
Acq: 07 Apr 2025 12:27

Tgt Ion: 45 Resp: 17438
Ion Ratio Lower Upper
45 100
46 37.7 20.2 80.8





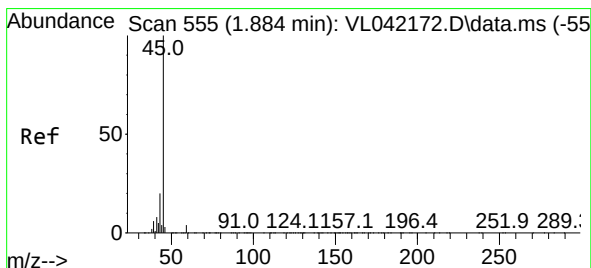
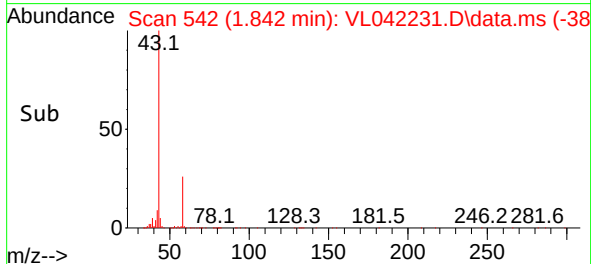
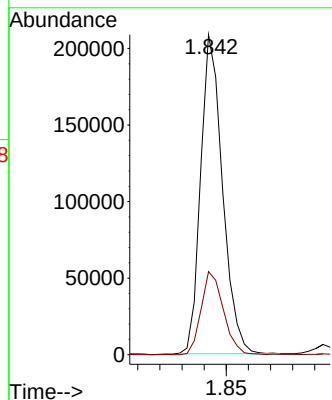
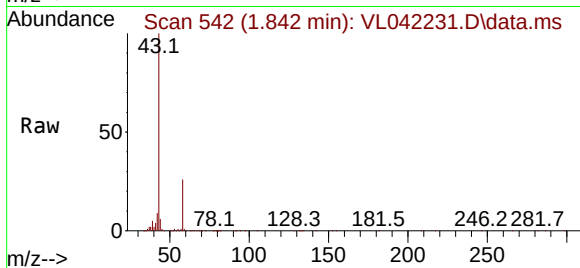
#15
Acetone
Concen: 5.053 ppbv
RT: 1.842 min Scan# 541
Delta R.T. 0.010 min
Lab File: VL042231.D
Acq: 07 Apr 2025 12:27

Instrument : MSVOA_L
ClientSampleId : AA-1-03312025

Tgt Ion: 43 Resp: 143188
Ion Ratio Lower Upper
43 100
58 26.7 23.2 34.8

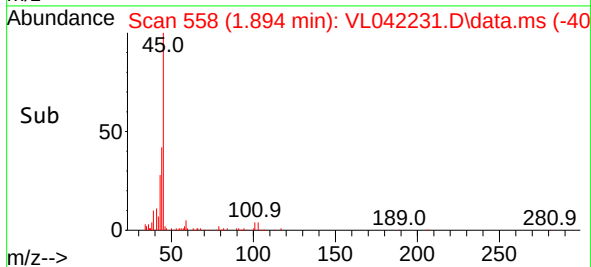
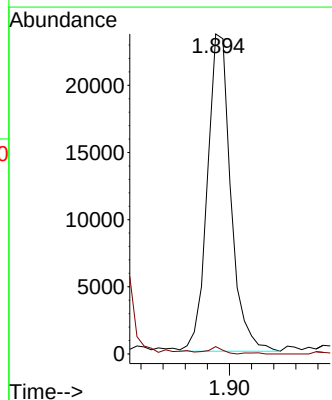
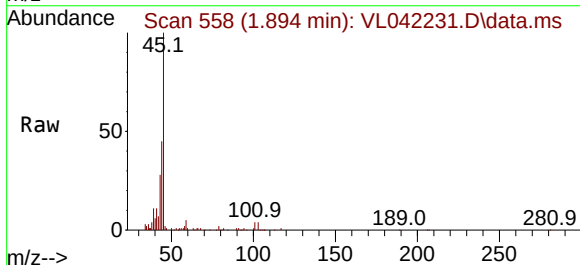
Manual Integrations
APPROVED

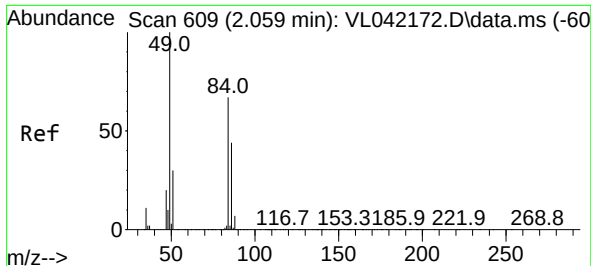
Reviewed By :Semsettin Yesilyurt 04/08/2025
Supervised By :Mahesh Dadoda 04/09/2025



#19
Isopropyl Alcohol
Concen: 1.089 ppbv
RT: 1.894 min Scan# 558
Delta R.T. 0.010 min
Lab File: VL042231.D
Acq: 07 Apr 2025 12:27

Tgt Ion: 45 Resp: 17414
Ion Ratio Lower Upper
45 100
58 219.8 36.9 55.3#





#20

Methylene Chloride

Concen: 0.404 ppbv

RT: 2.072 min Scan# 613

Delta R.T. 0.013 min

Lab File: VL042231.D

Acq: 07 Apr 2025 12:27

Instrument :

MSVOA_L

ClientSampleId :

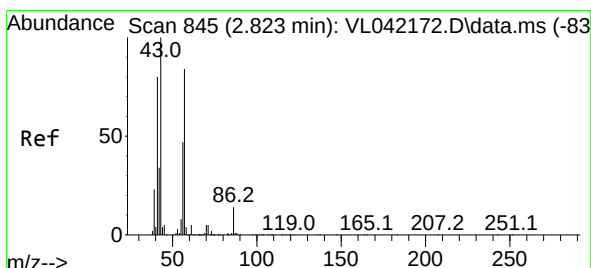
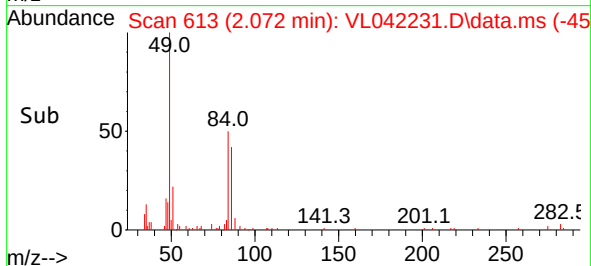
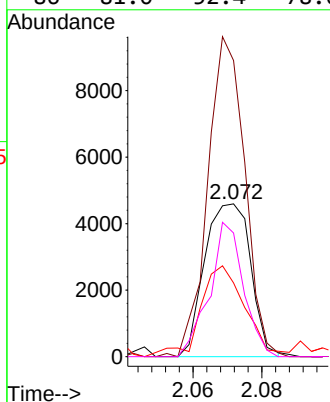
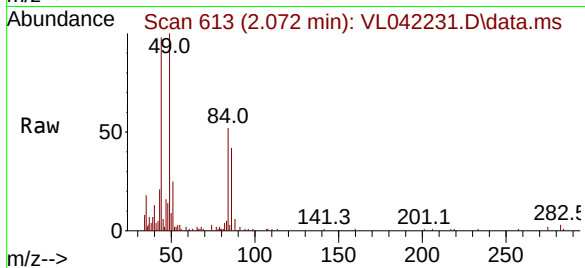
AA-1-03312025

Tgt Ion: 84	Resp: 426		
Ion	Ratio	Lower	Upper
84	100		
49	191.3	120.2	180.4
51	44.7	37.4	56.0
86	81.0	52.4	78.6

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/08/2025
Supervised By :Mahesh Dadoda 04/09/2025



#26

Hexane

Concen: 0.329 ppbv

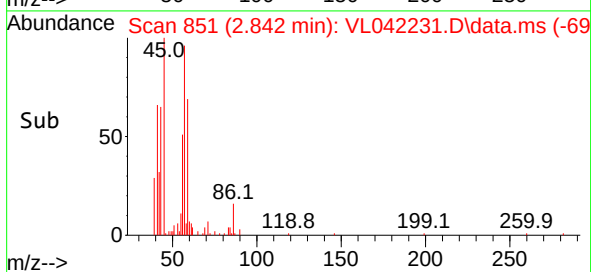
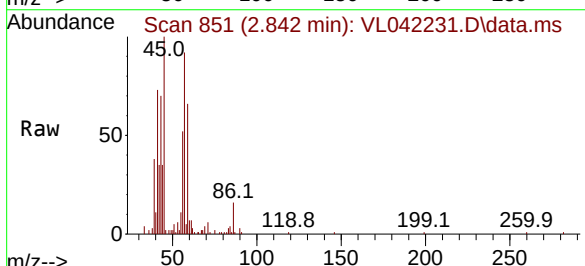
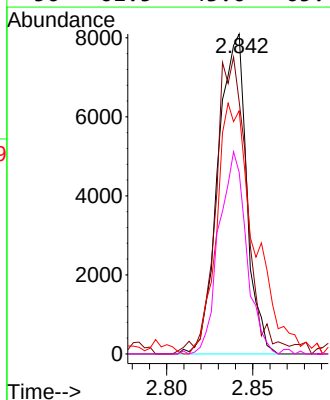
RT: 2.842 min Scan# 851

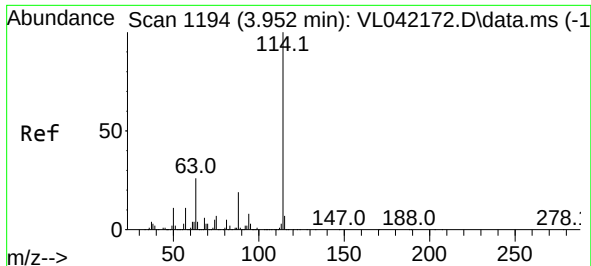
Delta R.T. 0.019 min

Lab File: VL042231.D

Acq: 07 Apr 2025 12:27

Tgt Ion: 57	Resp: 9360
Ion Ratio	Lower Upper
57 100	
41 101.0	76.6 114.8
43 110.0	207.8 311.8#
56 61.5	43.6 65.4





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.978 min Scan# 1194

Delta R.T. 0.026 min

Lab File: VL042231.D

Acq: 07 Apr 2025 12:27

Instrument :

MSVOA_L

ClientSampleId :

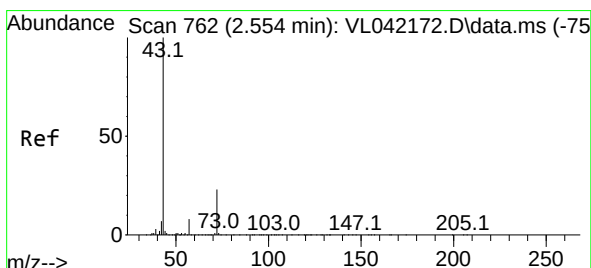
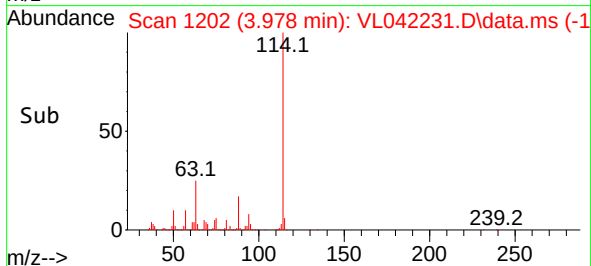
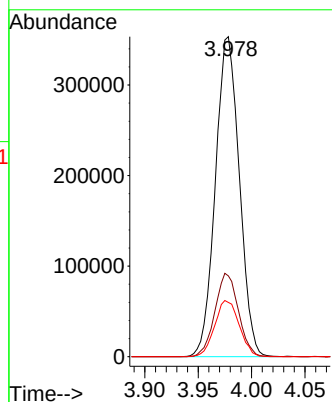
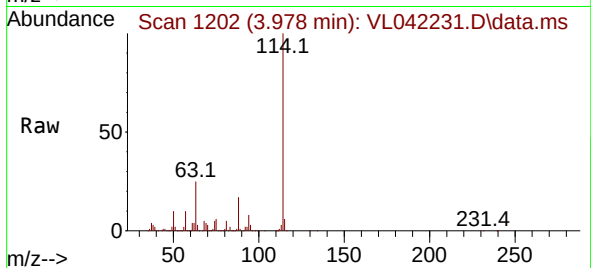
AA-1-03312025

Tgt Ion:	114	Resp:	55141
Ion Ratio	Lower	Upper	
114	100		
63	25.6	20.7	31.1
88	18.0	15.0	22.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/08/2025
Supervised By :Mahesh Dadoda 04/09/2025



#34

2-Butanone

Concen: 0.534 ppbv

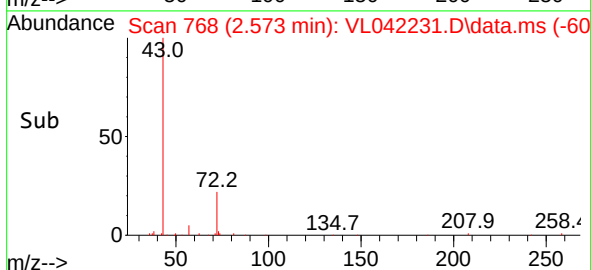
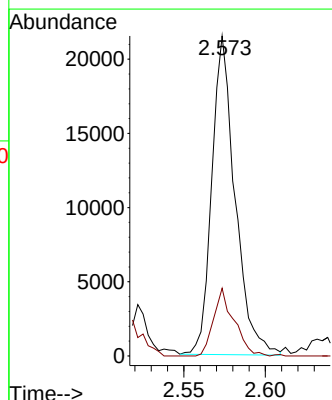
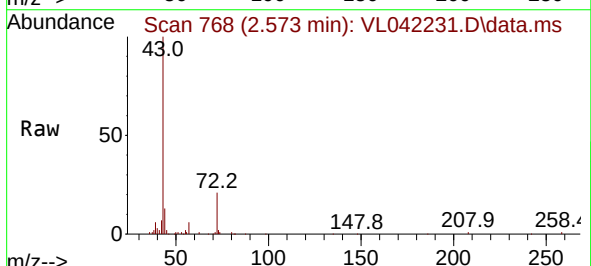
RT: 2.573 min Scan# 768

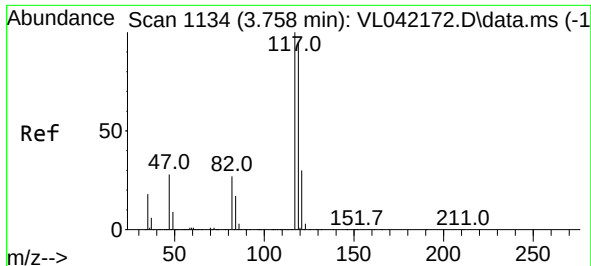
Delta R.T. 0.019 min

Lab File: VL042231.D

Acq: 07 Apr 2025 12:27

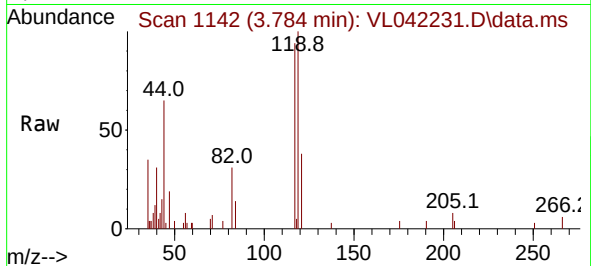
Tgt Ion:	43	Resp:	21340
Ion Ratio	Lower	Upper	
43	100		
72	18.9	18.2	27.2





#35
Carbon Tetrachloride
Concen: 0.066 ppbv m
RT: 3.784 min Scan# 1134
Delta R.T. 0.026 min
Lab File: VL042231.D
Acq: 07 Apr 2025 12:27

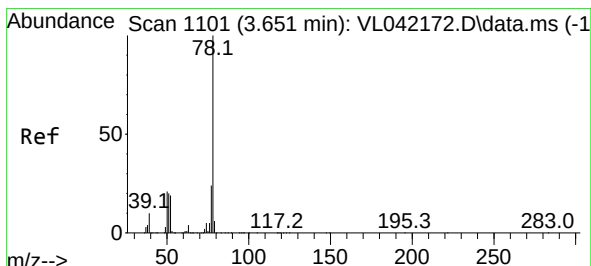
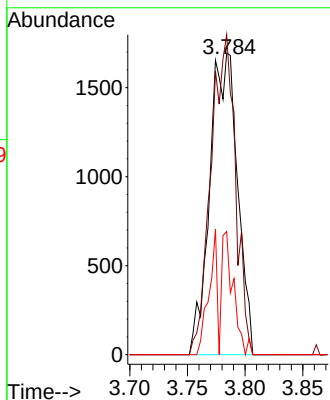
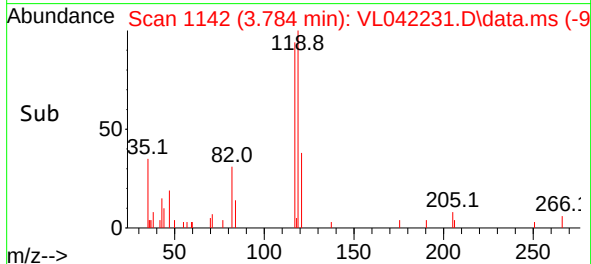
Instrument :
MSVOA_L
ClientSampleId :
AA-1-03312025



Tgt Ion: 117 Resp: 2850
Ion Ratio Lower Upper
117 100
119 106.1 76.2 114.2
121 40.8 24.2 36.4

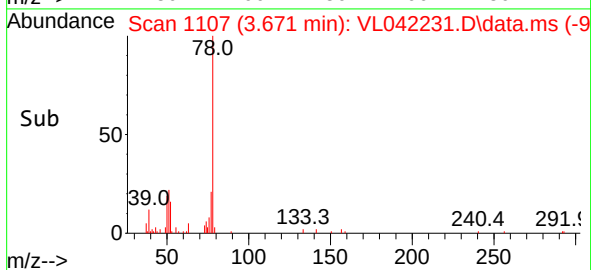
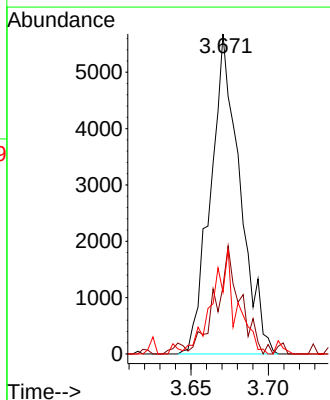
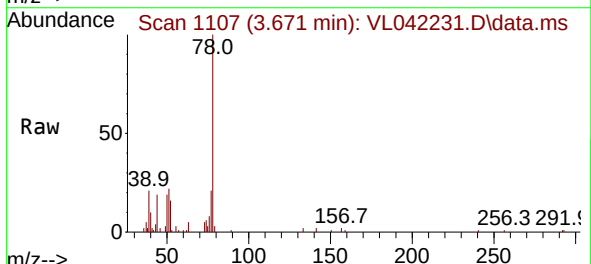
Manual Integrations
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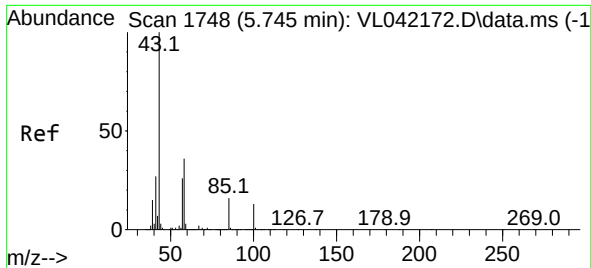
Reviewed By :Semsettin Yesilyurt 04/08/2025
Supervised By :Mahesh Dadoda 04/09/2025



#36
Benzene
Concen: 0.137 ppbv
RT: 3.671 min Scan# 1107
Delta R.T. 0.019 min
Lab File: VL042231.D
Acq: 07 Apr 2025 12:27

Tgt Ion: 78 Resp: 7483
Ion Ratio Lower Upper
78 100
77 18.7 19.1 28.7#
50 17.7 16.6 24.8





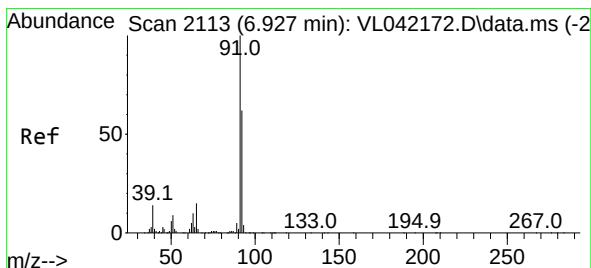
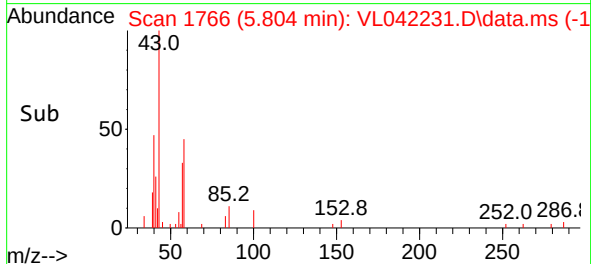
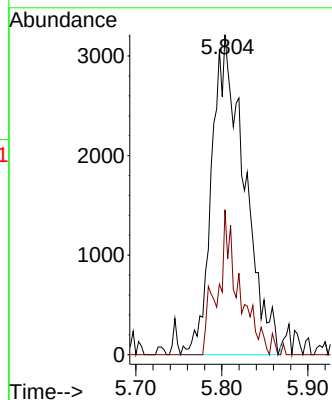
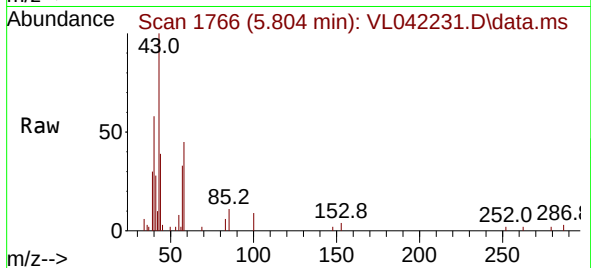
#50
4-Methyl-2-Pentanone
Concen: 0.134 ppbv m
RT: 5.804 min Scan# 1766
Delta R.T. 0.058 min
Lab File: VL042231.D
Acq: 07 Apr 2025 12:27

Instrument : MSVOA_L
ClientSampleId : AA-1-03312025

Tgt Ion: 43 Resp: 8490
Ion Ratio Lower Upper
43 100
58 30.4 29.0 43.6

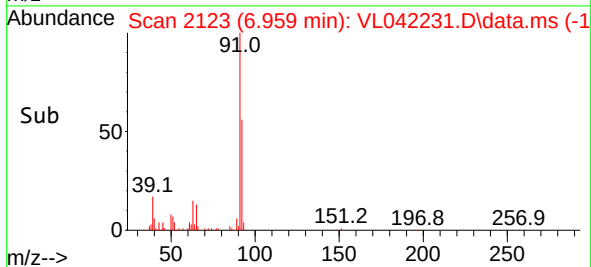
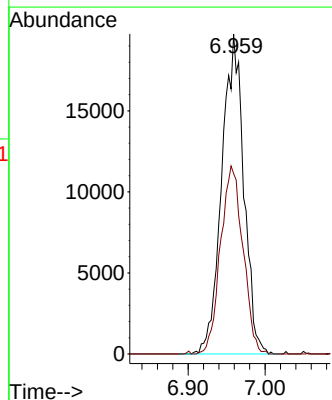
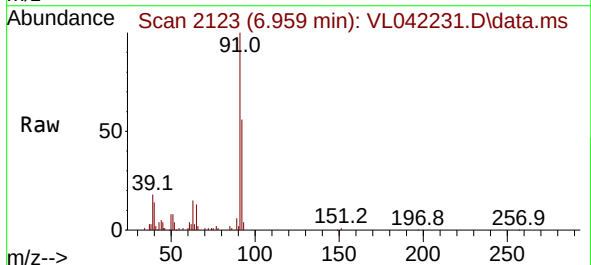
Manual Integrations
APPROVED

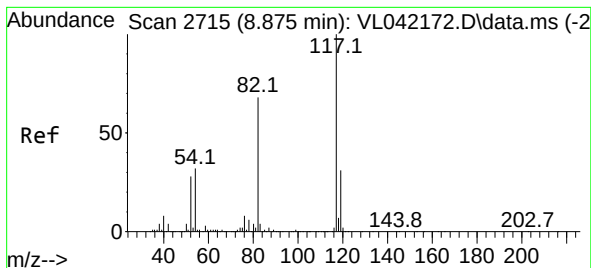
Reviewed By :Semsettin Yesilyurt 04/08/2025
Supervised By :Mahesh Dadoda 04/09/2025



#53
Toluene
Concen: 0.605 ppbv m
RT: 6.959 min Scan# 2123
Delta R.T. 0.032 min
Lab File: VL042231.D
Acq: 07 Apr 2025 12:27

Tgt Ion: 91 Resp: 39177
Ion Ratio Lower Upper
91 100
92 60.0 48.4 72.6





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.901 min Scan# 21

Delta R.T. 0.026 min

Lab File: VL042231.D

Acq: 07 Apr 2025 12:27

Instrument :

MSVOA_L

ClientSampleId :

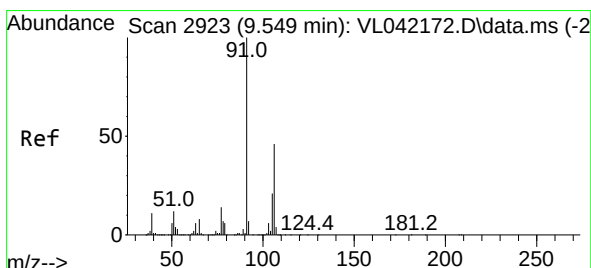
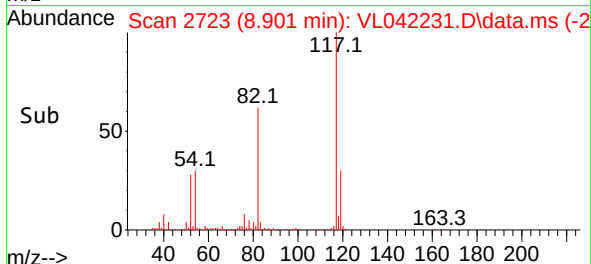
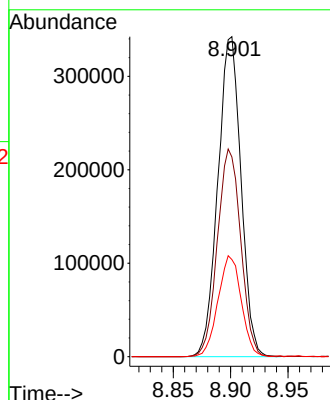
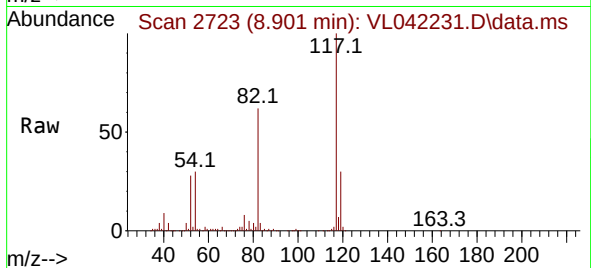
AA-1-03312025

Tgt Ion: 117 Resp: 47978
 Ion Ratio Lower Upper
 117 100
 82 65.5 55.8 83.6
 119 32.0 25.5 38.3

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/08/2025
 Supervised By :Mahesh Dadoda 04/09/2025



#59

m/p-Xylene

Concen: 0.217 ppbv m

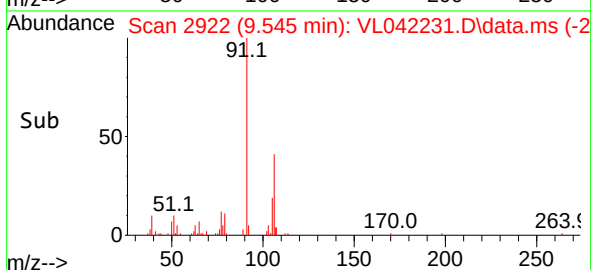
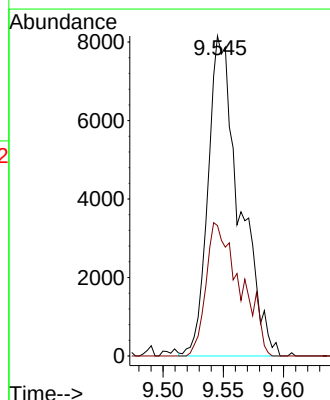
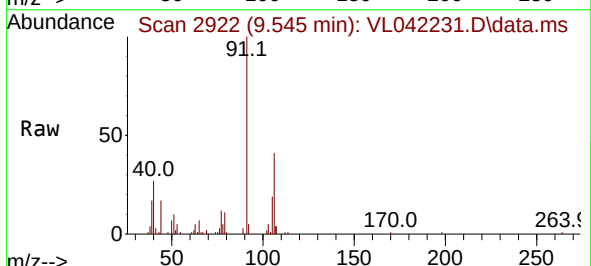
RT: 9.545 min Scan# 2922

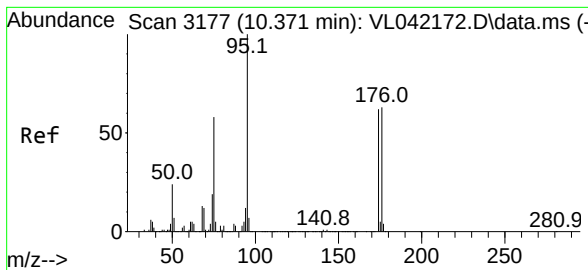
Delta R.T. -0.003 min

Lab File: VL042231.D

Acq: 07 Apr 2025 12:27

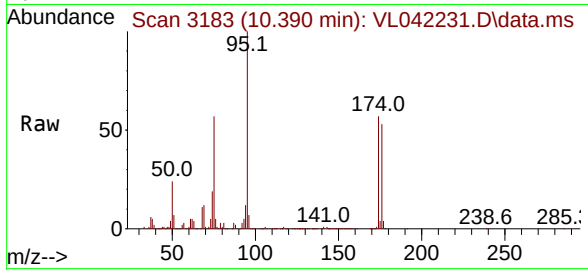
Tgt Ion: 91 Resp: 14796
 Ion Ratio Lower Upper
 91 100
 106 0.0 36.4 54.6#





#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.674 ppbv
 RT: 10.390 min Scan# 31
 Delta R.T. 0.019 min
 Lab File: VL042231.D
 Acq: 07 Apr 2025 12:27

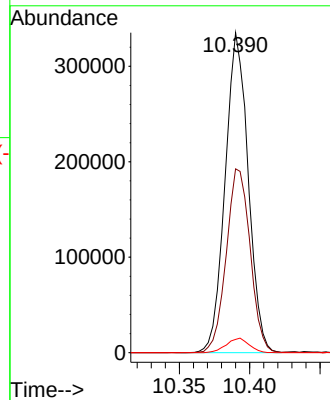
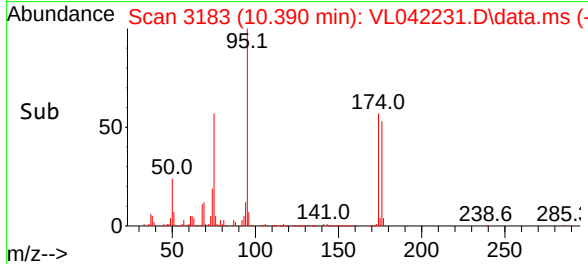
Instrument :
 MSVOA_L
 ClientSampleId :
 AA-1-03312025



Tgt Ion: 95 Resp: 381172
 Ion Ratio Lower Upper
 95 100
 174 59.8 50.6 76.0
 175 4.5 3.8 5.6

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 04/08/2025
 Supervised By :Mahesh Dadoda 04/09/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040725\
Data File : VL042231.D
Acq On : 07 Apr 2025 12:27
Operator : SY/MD
Sample : Q1725-04
Misc : 400mL/MSVOA_L
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
AA-1-03312025

Integration Parameters: RTEINT.P

Integrator: RTE

Smoothing : ON

Sampling : 3

Start Thrs: 0.001

Stop Thrs : 0

Filtering: 5

Min Area: 3 % of largest Peak

Max Peaks: 100

Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >

Peak separation: 0

Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M

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

Signal : TIC: VL042231.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.434	411	416	422	rBV	4220748	4615994	100.00%	41.010%
2	1.564	452	456	460	rVB	135190	68989	1.49%	0.613%
3	1.628	472	476	479	rVB	112239	63589	1.38%	0.565%
4	1.842	538	542	549	rBV	323788	263206	5.70%	2.338%
5	2.800	828	838	845	rBV	736898	771539	16.71%	6.855%
6	2.836	845	849	863	rVB4	66483	82494	1.79%	0.733%
7	3.975	1189	1201	1217	rBV	918136	1453831	31.50%	12.916%
8	6.959	2109	2123	2137	rBV3	54409	114914	2.49%	1.021%
9	8.286	2525	2533	2539	rBV2	36186	56012	1.21%	0.498%
10	8.898	2710	2722	2733	rBV	1209499	1709482	37.03%	15.187%
11	8.956	2733	2740	2749	rVB4	29593	47575	1.03%	0.423%
12	10.390	3168	3183	3194	rBV	1526751	1819018	39.41%	16.161%
13	11.303	3457	3465	3476	rBV8	35049	56557	1.23%	0.502%
14	11.542	3529	3539	3551	rBV8	40516	70351	1.52%	0.625%
15	12.681	3884	3891	3901	rBV4	51400	62301	1.35%	0.553%

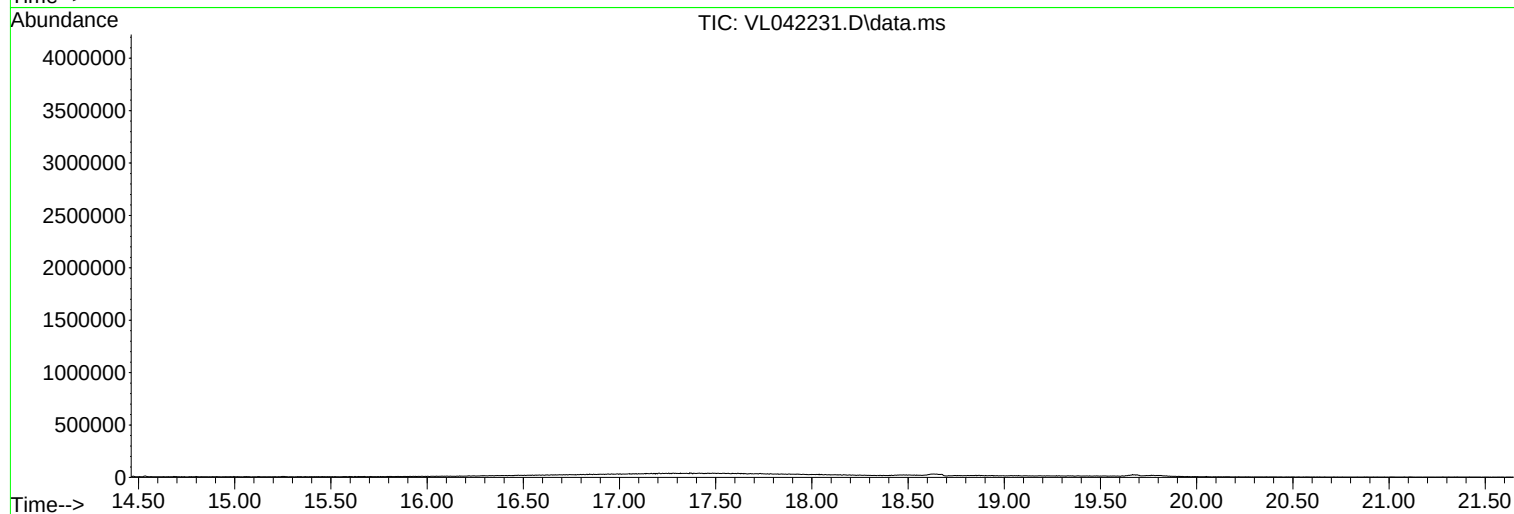
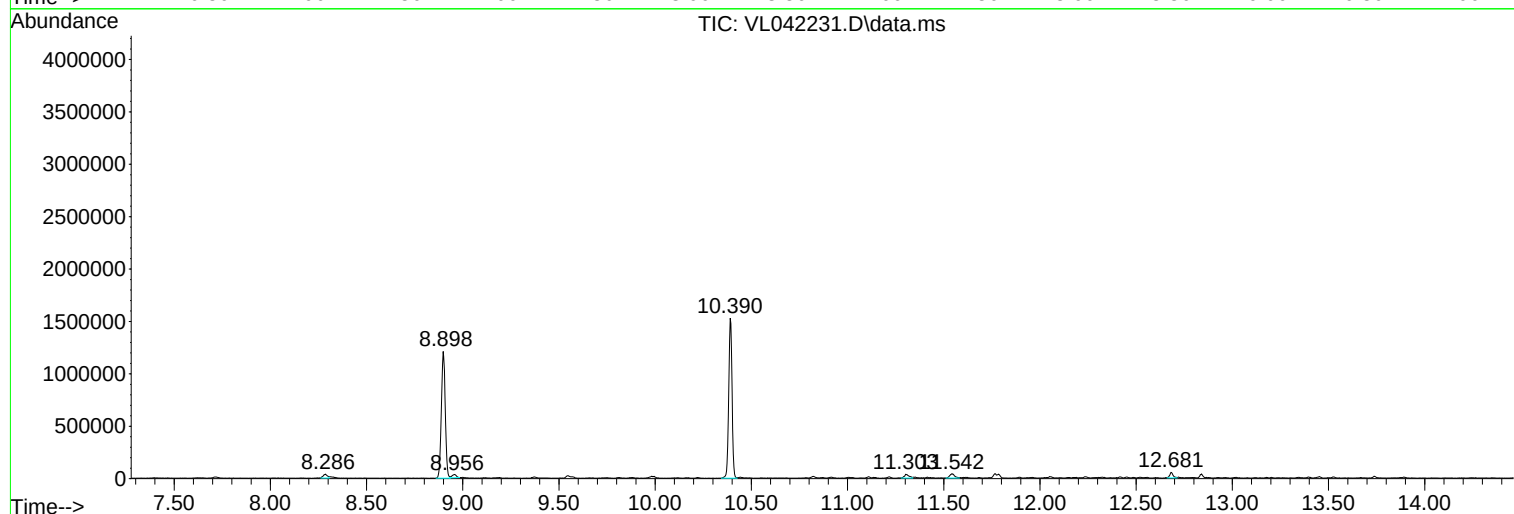
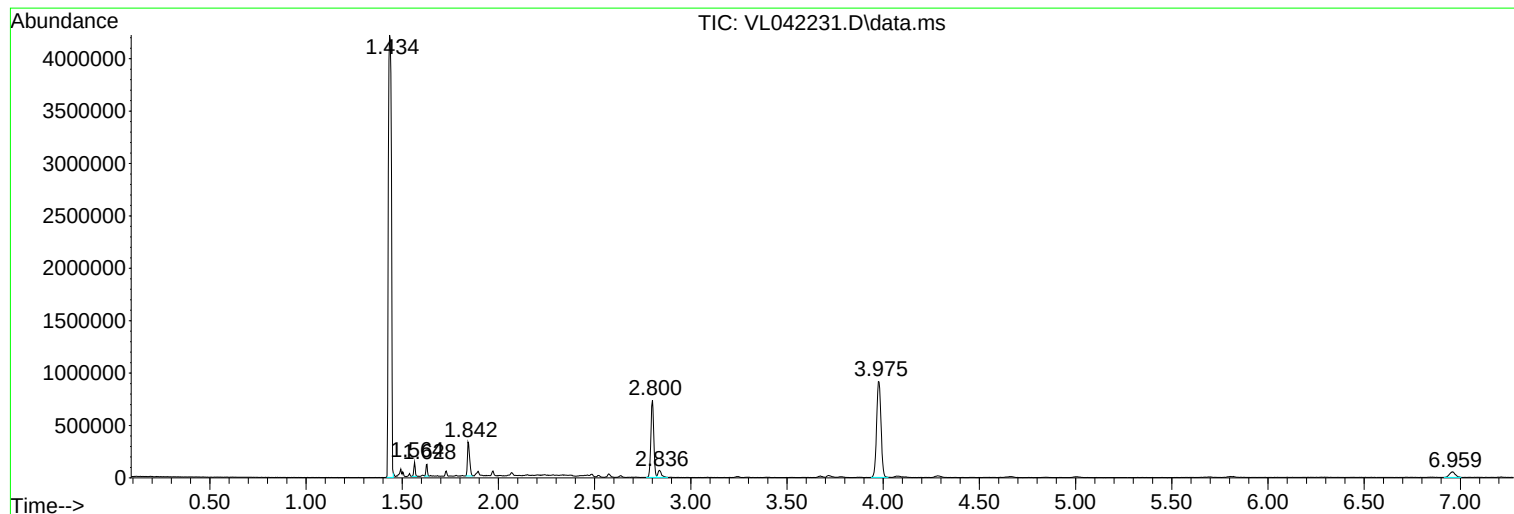
Sum of corrected areas: 11255852

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040725\
Data File : VL042231.D
Acq On : 07 Apr 2025 12:27
Operator : SY/MD
Sample : Q1725-04
Misc : 400mL/MSVOA_L
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
AA-1-03312025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040725\
Data File : VL042231.D
Acq On : 07 Apr 2025 12:27
Operator : SY/MD
Sample : Q1725-04
Misc : 400mL/MSVOA_L
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
AA-1-03312025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040725\
Data File : VL042231.D
Acq On : 07 Apr 2025 12:27
Operator : SY/MD
Sample : Q1725-04
Misc : 400mL/MSVOA_L
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
AA-1-03312025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

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

Report of Analysis

Client:	Woodard & Curran	Date Collected:	04/01/25
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	04/03/25
Client Sample ID:	SSSG-B14-3-04012025	SDG No.:	Q1725
Lab Sample ID:	Q1725-05	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042245.D	2		04/07/25 22:40	VL040725

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.46	2.27	J	2.08	4.94	ug/m3
74-87-3	Chloromethane	0.47	0.97	J	0.41	2.07	ug/m3
75-01-4	Vinyl Chloride	0.030	0.080	U	0.080	0.15	ug/m3
74-83-9	Bromomethane	0.28	1.09	U	1.09	3.88	ug/m3
75-00-3	Chloroethane	0.34	0.90	U	0.90	2.64	ug/m3
109-99-9	Tetrahydrofuran	0.26	0.77	U	0.77	2.95	ug/m3
75-69-4	Trichlorofluoromethane	0.32	1.80	U	1.80	5.62	ug/m3
76-13-1	1,1,2-Trichlorotrifluoroethane	0.32	2.45	U	2.45	7.66	ug/m3
76-14-2	Dichlorotetrafluoroethane	0.18	1.26	U	1.26	6.99	ug/m3
75-65-0	tert-Butyl alcohol	0.38	1.15	U	1.15	3.03	ug/m3
142-82-5	Heptane	0.22	0.90	U	0.90	4.10	ug/m3
75-35-4	1,1-Dichloroethene	0.28	1.11	U	1.11	3.96	ug/m3
67-64-1	Acetone	44.2	105	E	1.14	2.38	ug/m3
75-15-0	Carbon Disulfide	0.32	1.00	U	1.00	3.11	ug/m3
1634-04-4	Methyl tert-Butyl Ether	0.24	0.87	U	0.87	3.61	ug/m3
75-09-2	Methylene Chloride	0.64	2.22	J	1.32	3.47	ug/m3
156-60-5	trans-1,2-Dichloroethene	0.38	1.51	U	1.51	3.96	ug/m3
75-34-3	1,1-Dichloroethane	0.26	1.05	U	1.05	4.05	ug/m3
110-82-7	Cyclohexane	0.44	1.51	U	1.51	3.44	ug/m3
78-93-3	2-Butanone	0.72	2.12	J	0.71	2.95	ug/m3
56-23-5	Carbon Tetrachloride	0.070	0.44		0.13	0.38	ug/m3
156-59-2	cis-1,2-Dichloroethene	0.18	0.71	U	0.71	3.96	ug/m3
67-66-3	Chloroform	0.21	1.03	J	0.83	4.88	ug/m3
71-55-6	1,1,1-Trichloroethane	0.020	0.11	U	0.11	0.33	ug/m3
540-84-1	2,2,4-Trimethylpentane	0.20	0.93	U	0.93	4.67	ug/m3
71-43-2	Benzene	0.17	0.54	U	0.54	3.19	ug/m3
107-06-2	1,2-Dichloroethane	0.18	0.73	U	0.73	4.05	ug/m3
79-01-6	Trichloroethene	0.030	0.16	U	0.16	0.32	ug/m3
78-87-5	1,2-Dichloropropane	0.22	1.02	U	1.02	4.62	ug/m3
75-27-4	Bromodichloromethane	0.15	1.00	U	1.00	6.70	ug/m3
108-10-1	4-Methyl-2-Pentanone	0.19	0.78	U	0.78	4.10	ug/m3
108-88-3	Toluene	0.77	2.90	J	0.83	3.77	ug/m3
10061-02-6	t-1,3-Dichloropropene	0.12	0.54	U	0.54	4.54	ug/m3
10061-01-5	cis-1,3-Dichloropropene	0.13	0.59	U	0.59	4.54	ug/m3
79-00-5	1,1,2-Trichloroethane	0.14	0.76	U	0.76	5.46	ug/m3

Report of Analysis

Client:	Woodard & Curran	Date Collected:	04/01/25
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	04/03/25
Client Sample ID:	SSSG-B14-3-04012025	SDG No.:	Q1725
Lab Sample ID:	Q1725-05	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042245.D	2		04/07/25 22:40	VL040725

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
124-48-1	Dibromochloromethane	0.13	1.11	U	1.11	8.52	ug/m3
106-93-4	1,2-Dibromoethane	0.14	1.08	U	1.08	1.54	ug/m3
127-18-4	Tetrachloroethene	0.080	0.54		0.20	0.41	ug/m3
108-90-7	Chlorobenzene	0.15	0.69	U	0.69	4.61	ug/m3
100-41-4	Ethyl Benzene	0.92	4.00	J	1.04	4.34	ug/m3
179601-23-1	m/p-Xylene	4.00	17.4		1.82	8.69	ug/m3
95-47-6	o-Xylene	0.83	3.61	J	1.04	4.34	ug/m3
100-42-5	Styrene	0.40	1.70	J	0.94	4.26	ug/m3
75-25-2	Bromoform	0.11	1.14	U	1.14	10.3	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	0.020	0.14	U	0.14	0.41	ug/m3
95-49-8	2-Chlorotoluene	0.22	1.14	U	1.14	5.18	ug/m3
108-67-8	1,3,5-Trimethylbenzene	0.22	1.08	U	1.08	4.92	ug/m3
95-63-6	1,2,4-Trimethylbenzene	0.16	0.79	U	0.79	4.92	ug/m3
541-73-1	1,3-Dichlorobenzene	0.16	0.96	U	0.96	6.01	ug/m3
106-46-7	1,4-Dichlorobenzene	0.11	0.66	U	0.66	6.01	ug/m3
95-50-1	1,2-Dichlorobenzene	0.15	0.90	U	0.90	6.01	ug/m3
120-82-1	1,2,4-Trichlorobenzene	0.17	1.26	U	1.26	7.42	ug/m3
87-68-3	Hexachloro-1,3-Butadiene	0.17	1.81	U	1.81	10.7	ug/m3
106-99-0	1,3-Butadiene	0.26	0.58	U	0.58	2.21	ug/m3
91-20-3	Naphthalene	0.15	0.79	U	0.79	1.05	ug/m3
622-96-8	4-Ethyltoluene	0.24	1.18	U	1.18	4.92	ug/m3
110-54-3	Hexane	0.26	0.92	J	0.78	3.52	ug/m3
107-05-1	Allyl Chloride	0.30	0.94	U	0.94	3.13	ug/m3
123-91-1	1,4-Dioxane	0.42	1.51	U	1.51	3.60	ug/m3
80-62-6	Methyl Methacrylate	0.17	0.70	U	0.70	4.09	ug/m3

SURROGATES

460-00-4	1-Bromo-4-Fluorobenzene	9.90		70 (65) - 130 (135)	99%	SPK: 10

INTERNAL STANDARDS

74-97-5	Bromochloromethane	191000	2.803
540-36-3	1,4-Difluorobenzene	494000	3.988
3114-55-4	Chlorobenzene-d5	441000	8.908

TENTATIVE IDENTIFIED COMPOUNDS

75-45-6	Chlorodifluoromethane	0.35	J	1.48	ppbv
115-07-1	Propene	0.92	J	1.49	ppbv
64-17-5	Ethanol	14.6	J	1.73	ppbv

Report of Analysis

Client:	Woodard & Curran	Date Collected:	04/01/25
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	04/03/25
Client Sample ID:	SSSG-B14-3-04012025	SDG No.:	Q1725
Lab Sample ID:	Q1725-05	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042245.D	2		04/07/25 22:40	VL040725

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
67-63-0	Isopropyl Alcohol	150		J		1.90	ppbv
007452-79-1	Butanoic acid, 2-methyl-, ethyl es	2.10		J		9.18	ppbv

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\VL040725\
 Data File : VL042245.D
 Acq On : 07 Apr 2025 22:40
 Operator : SY/MD
 Sample : Q1725-05 2X
 Misc : 400mL/MSVOA_L
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SSSG-B14-3-04012025

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 04/08/2025
 Supervised By :Mahesh Dadoda 04/09/2025

Quant Time: Apr 08 01:37:28 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M

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

QLast Update : Fri Mar 28 02:00:52 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.803	49	191155	10.000	ppbv	0.02
33) 1,4-Difluorobenzene	3.988	114	493918	10.000	ppbv	0.04
55) Chlorobenzene-d5	8.908	117	441320	10.000	ppbv	0.03
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.397	95	357099	9.853	ppbv	0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.500%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.506	85	6425	0.228	ppbv	93
3) Chlorodifluoromethane	1.483	51	5063m	0.176	ppbv	
4) Chloromethane	1.541	50	2684	0.233	ppbv	100
9) Propene	1.493	41	6073m	0.460	ppbv	
11) Trichlorofluoromethane	1.887	101	2858	0.104	ppbv #	75
13) Ethanol	1.729	45	9102m	7.286	ppbv	
15) Acetone	1.845	43	590313	22.081	ppbv	96
19) Isopropyl Alcohol	1.897	45	1101017	72.993	ppbv #	32
20) Methylene Chloride	2.072	84	3195	0.321	ppbv #	94
26) Hexane	2.842	57	3476	0.130	ppbv #	33
29) Chloroform	2.865	83	4102	0.105	ppbv	91
34) 2-Butanone	2.577	43	12837	0.358	ppbv	97
35) Carbon Tetrachloride	3.791	117	1389m	0.036	ppbv	
52) Tetrachloroethene	8.254	164	816m	0.042	ppbv	
53) Toluene	6.972	91	22311	0.384	ppbv	97
58) Ethyl Benzene	9.377	91	35929	0.458	ppbv	96
59) m/p-Xylene	9.555	91	125540	2.006	ppbv	99
60) o-Xylene	9.986	91	25937	0.413	ppbv	100
61) Styrene	9.895	104	6211	0.200	ppbv	92

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

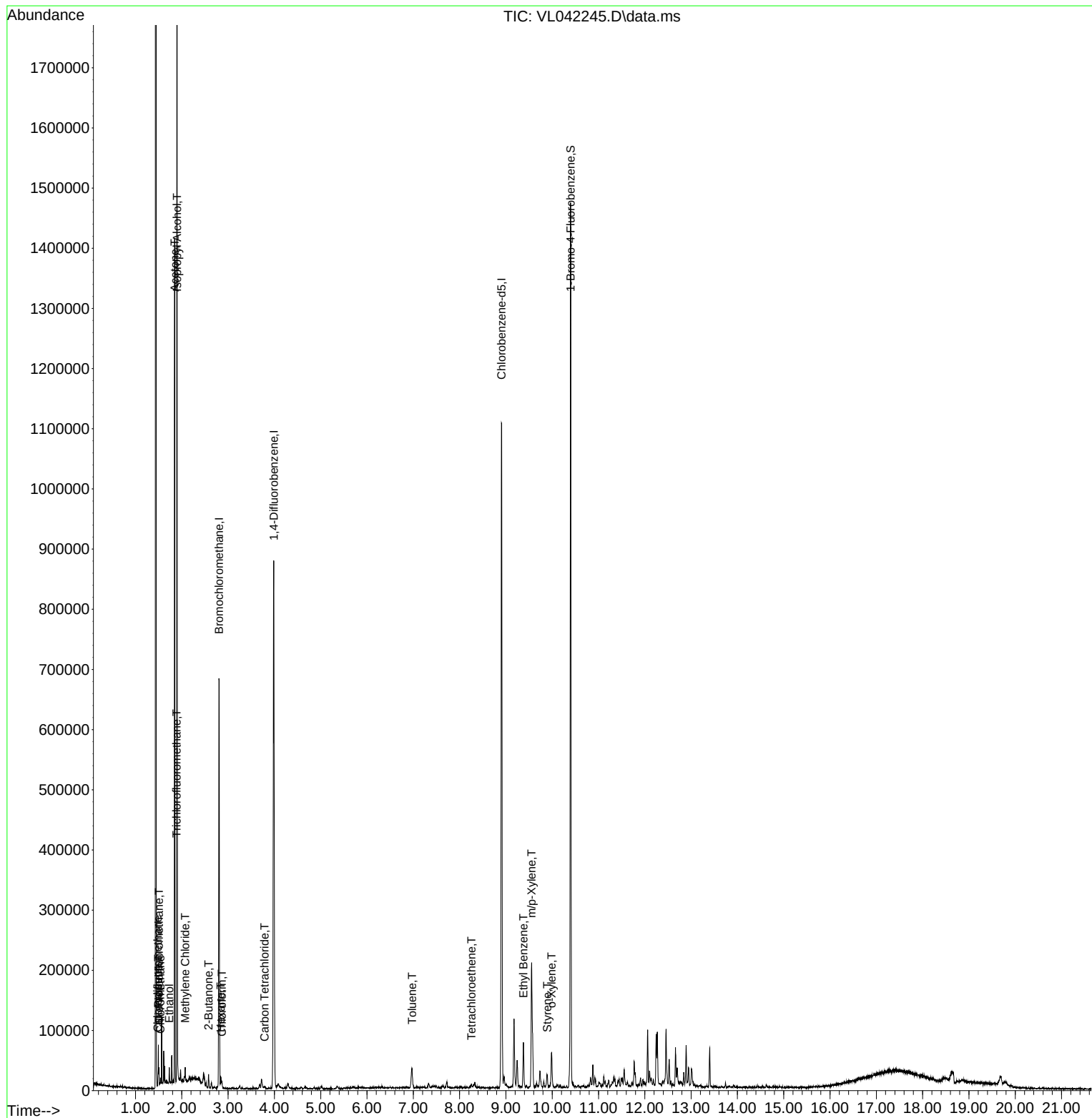
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040725\
Data File : VL042245.D
Acq On : 07 Apr 2025 22:40
Operator : SY/MD
Sample : Q1725-05 2X
Misc : 400mL/MSVOA_L
ALS Vial : 12 Sample Multiplier: 1

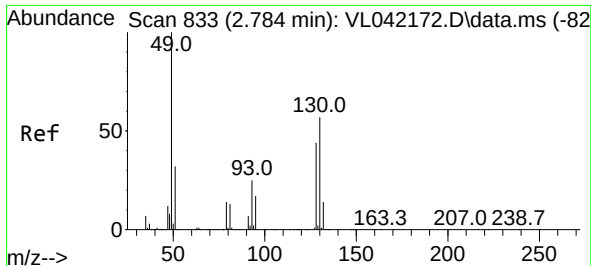
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B14-3-04012025

Quant Time: Apr 08 01:37:28 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Fri Mar 28 02:00:52 2025
Response via : Initial Calibration

Manual Integrations
APPROVED

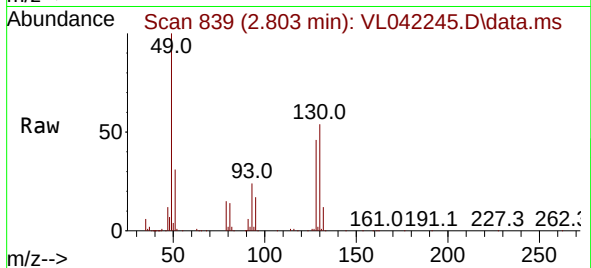
Reviewed By : Semsettin Yesilyurt 04/08/2025
Supervised By : Mahesh Dadoda 04/09/2025





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.803 min Scan# 811
Delta R.T. 0.019 min
Lab File: VL042245.D
Acq: 07 Apr 2025 22:40

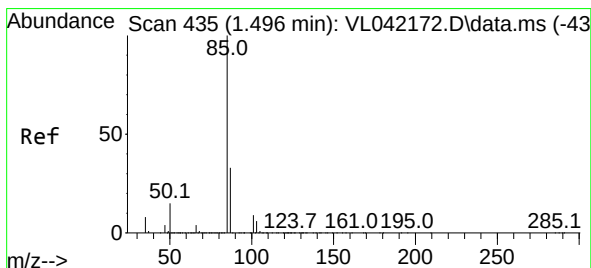
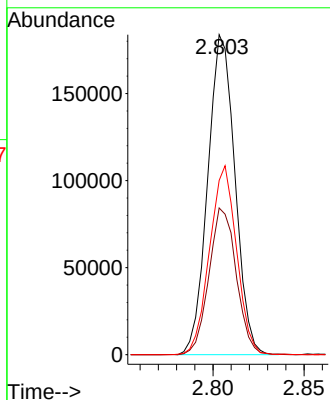
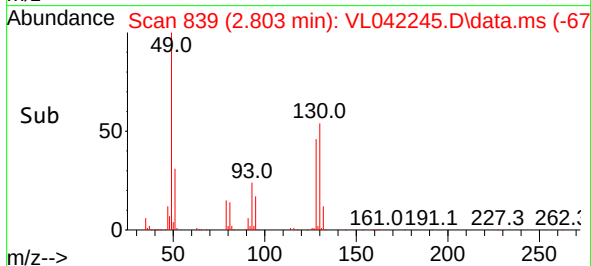
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B14-3-04012025



Tgt Ion: 49 Resp: 19115
Ion Ratio Lower Upper
49 100
128 46.0 22.9 68.5
130 58.6 28.8 86.4

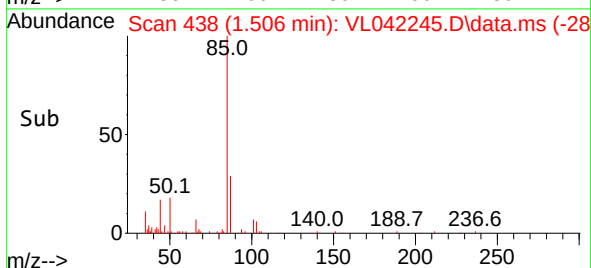
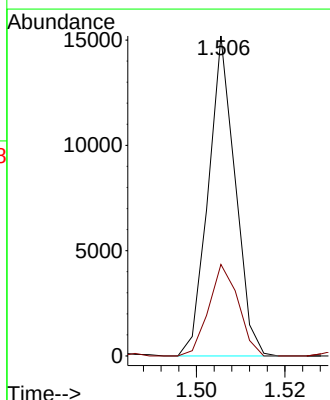
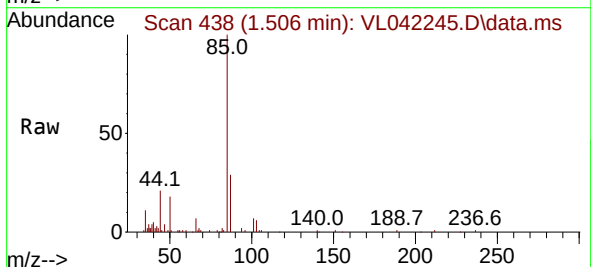
Manual Integrations
APPROVED

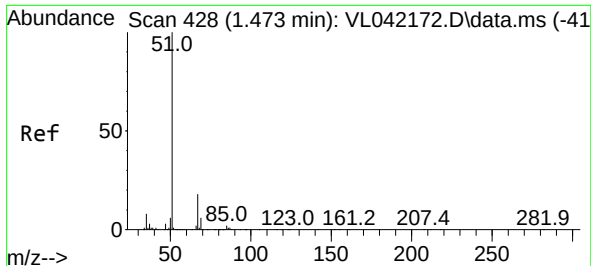
Reviewed By :Semsettin Yesilyurt 04/08/2025
Supervised By :Mahesh Dadoda 04/09/2025



#2
Dichlorodifluoromethane
Concen: 0.228 ppbv
RT: 1.506 min Scan# 438
Delta R.T. 0.010 min
Lab File: VL042245.D
Acq: 07 Apr 2025 22:40

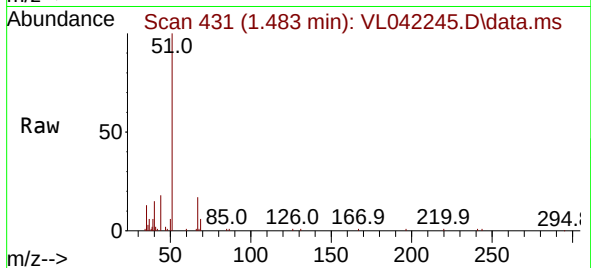
Tgt Ion: 85 Resp: 6425
Ion Ratio Lower Upper
85 100
87 28.6 26.1 39.1





#3
Chlorodifluoromethane
Concen: 0.176 ppbv m
RT: 1.483 min Scan# 41
Delta R.T. 0.010 min
Lab File: VL042245.D
Acq: 07 Apr 2025 22:40

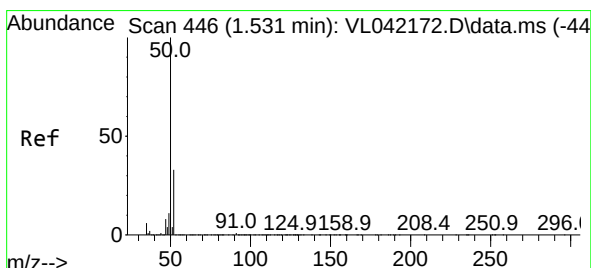
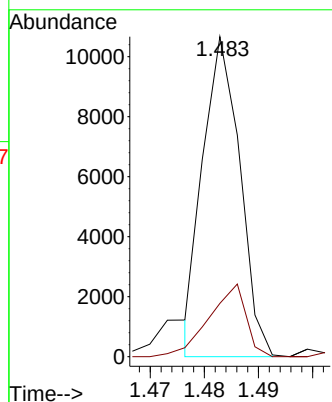
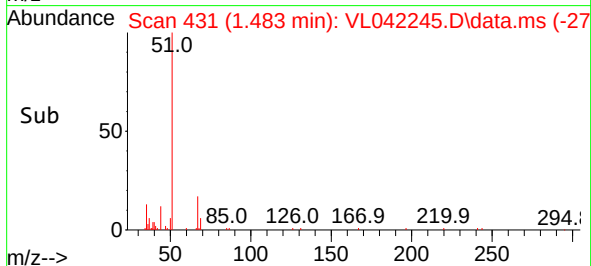
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B14-3-04012025



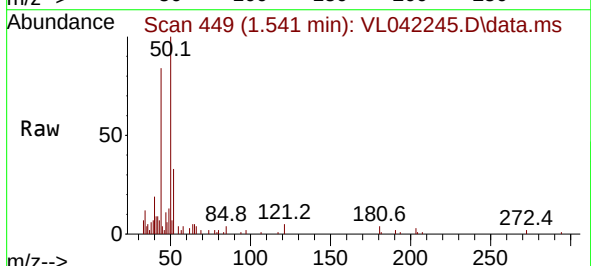
Tgt Ion: 51 Resp: 5063
Ion Ratio Lower Upper
51 100
67 24.3 15.0 22.6

Manual Integrations
APPROVED

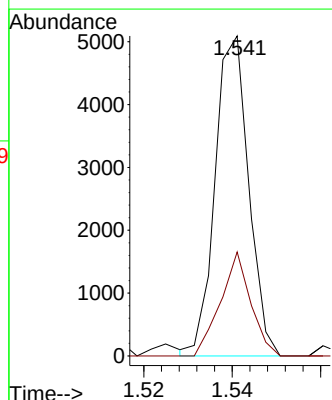
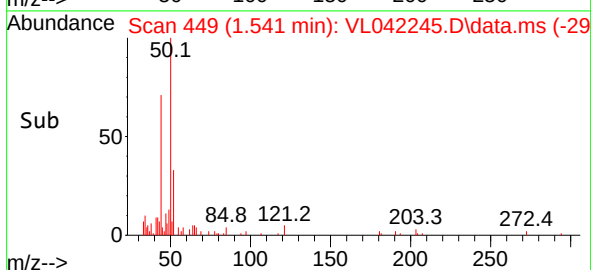
Reviewed By :Semsettin Yesilyurt 04/08/2025
Supervised By :Mahesh Dadoda 04/09/2025

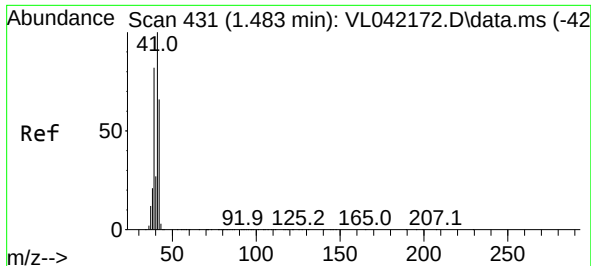


#4
Chloromethane
Concen: 0.233 ppbv
RT: 1.541 min Scan# 449
Delta R.T. 0.010 min
Lab File: VL042245.D
Acq: 07 Apr 2025 22:40



Tgt Ion: 50 Resp: 2684
Ion Ratio Lower Upper
50 100
52 32.5 26.1 39.1





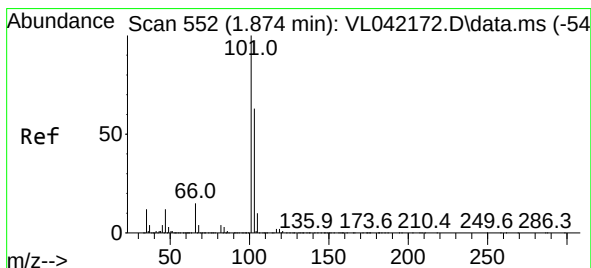
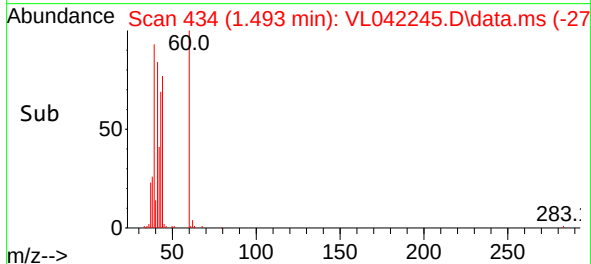
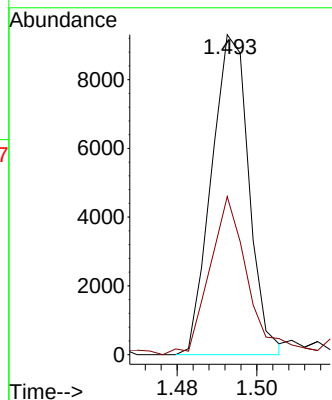
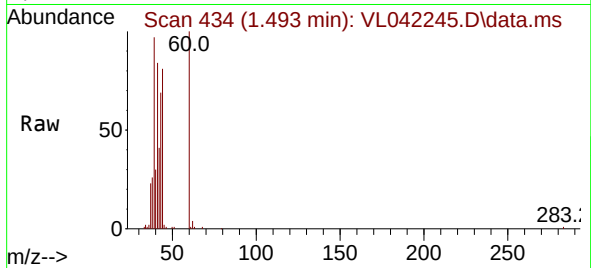
#9
 Propene
 Concen: 0.460 ppbv m
 RT: 1.493 min Scan# 41
 Delta R.T. 0.010 min
 Lab File: VL042245.D
 Acq: 07 Apr 2025 22:40

Instrument :
 MSVOA_L
 ClientSampleId :
 SSSG-B14-3-04012025

Tgt Ion: 41 Resp: 607
 Ion Ratio Lower Upper
 41 100
 42 1108.9 55.4 83.2

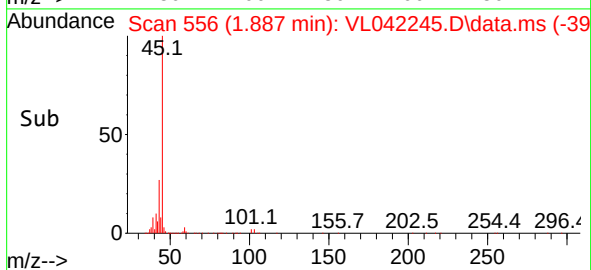
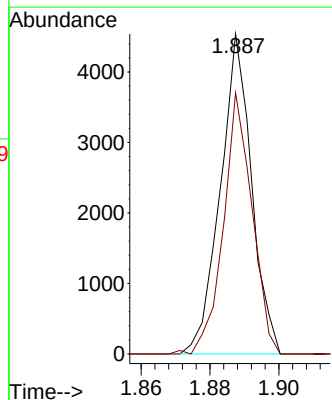
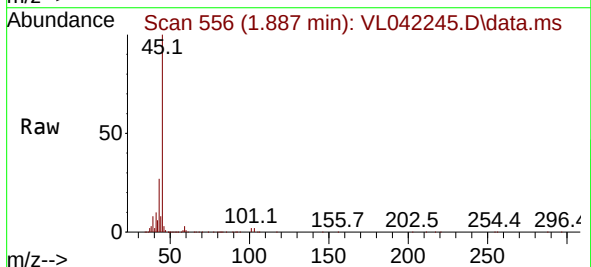
Manual Integrations
 APPROVED

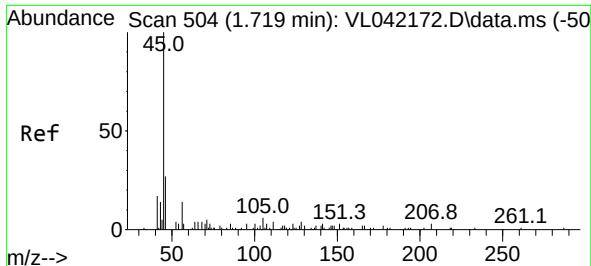
Reviewed By :Semsettin Yesilyurt 04/08/2025
 Supervised By :Mahesh Dadoda 04/09/2025



#11
 Trichlorofluoromethane
 Concen: 0.104 ppbv
 RT: 1.887 min Scan# 556
 Delta R.T. 0.013 min
 Lab File: VL042245.D
 Acq: 07 Apr 2025 22:40

Tgt Ion:101 Resp: 2858
 Ion Ratio Lower Upper
 101 100
 103 81.7 50.2 75.2#





#13

Ethanol

Concen: 7.286 ppbv m

RT: 1.729 min Scan# 504

Delta R.T. 0.010 min

Lab File: VL042245.D

Acq: 07 Apr 2025 22:40

Instrument :

MSVOA_L

ClientSampleId :

SSSG-B14-3-04012025

Tgt Ion: 45 Resp: 910

Ion Ratio Lower Upper

45 100

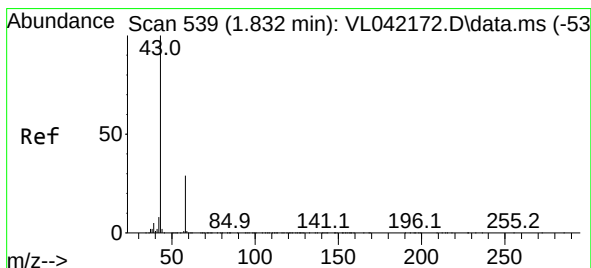
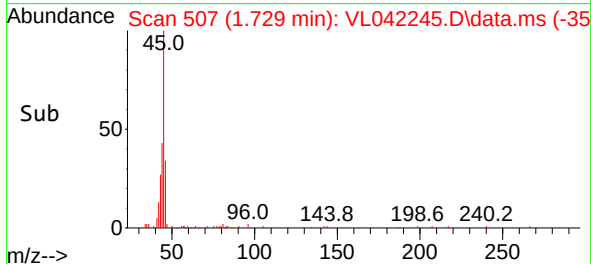
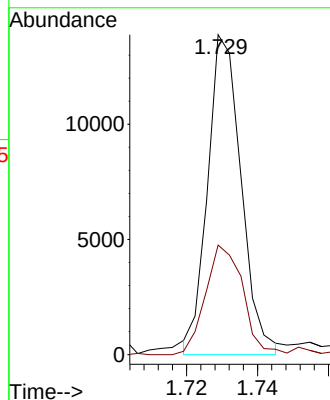
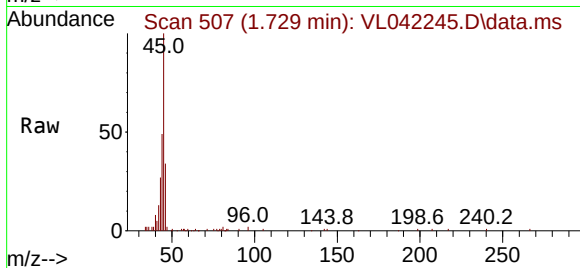
46 302.7 20.2 80.8

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 04/08/2025

Supervised By :Mahesh Dadoda 04/09/2025



#15

Acetone

Concen: 22.081 ppbv

RT: 1.845 min Scan# 543

Delta R.T. 0.013 min

Lab File: VL042245.D

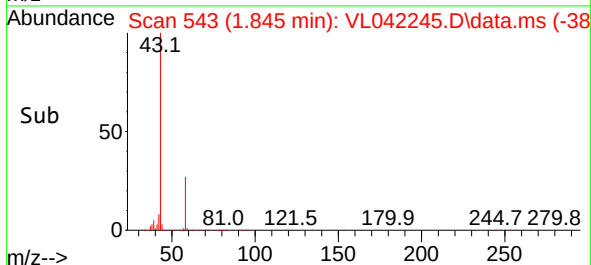
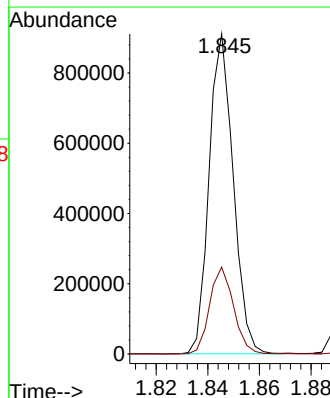
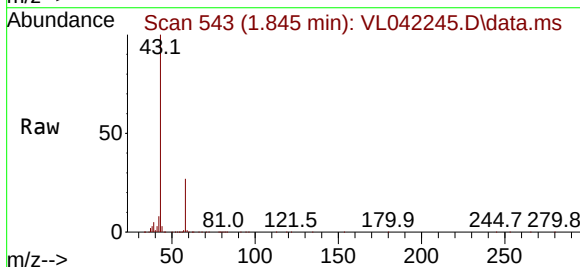
Acq: 07 Apr 2025 22:40

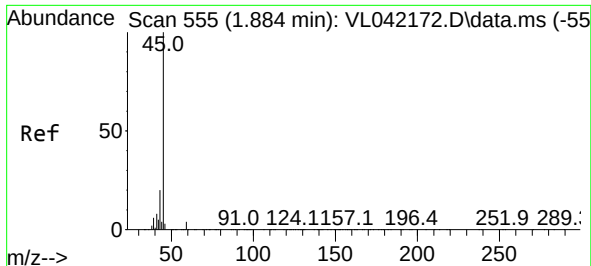
Tgt Ion: 43 Resp: 590313

Ion Ratio Lower Upper

43 100

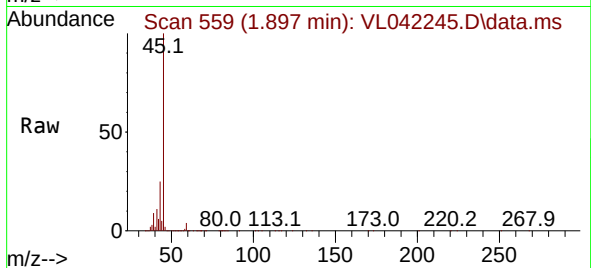
58 27.0 23.2 34.8





#19
Isopropyl Alcohol
Concen: 72.993 ppbv
RT: 1.897 min Scan# 511
Delta R.T. 0.013 min
Lab File: VL042245.D
Acq: 07 Apr 2025 22:40

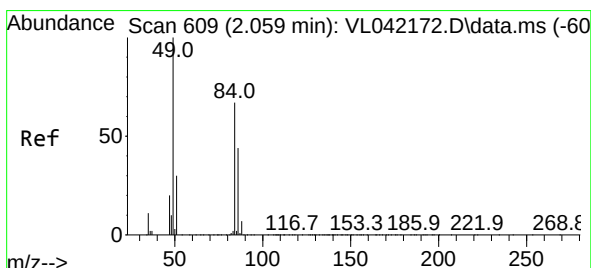
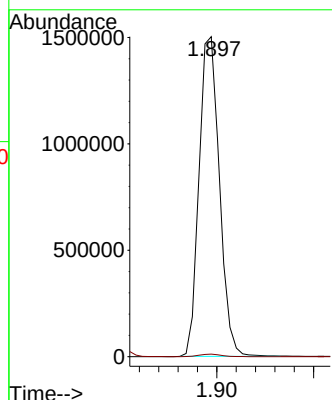
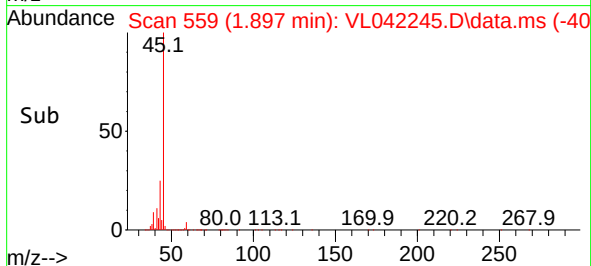
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B14-3-04012025



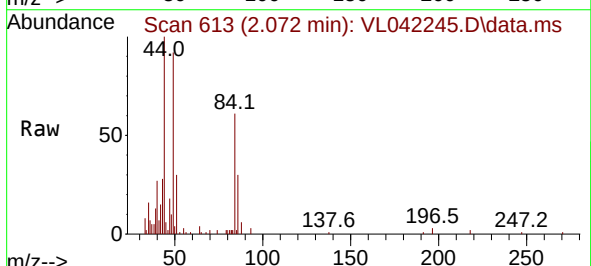
Tgt Ion: 45 Resp: 110101
Ion Ratio Lower Upper
45 100
58 0.9 36.9 55.3

Manual Integrations
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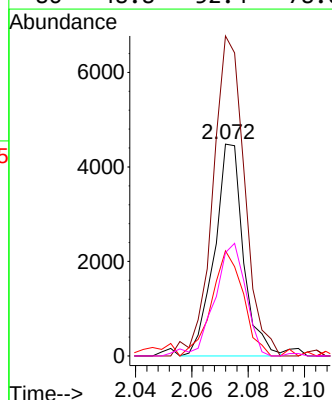
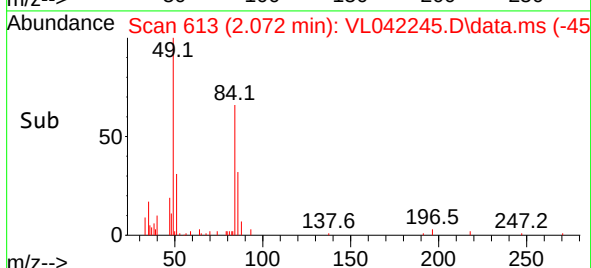
Reviewed By :Semsettin Yesilyurt 04/08/2025
Supervised By :Mahesh Dadoda 04/09/2025

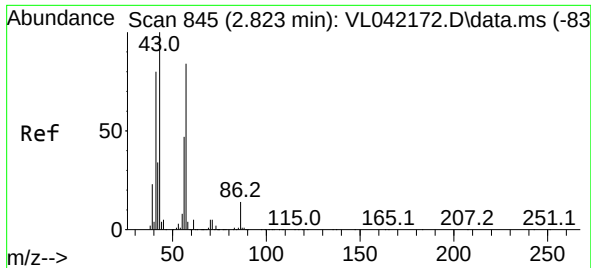


#20
Methylene Chloride
Concen: 0.321 ppbv
RT: 2.072 min Scan# 613
Delta R.T. 0.013 min
Lab File: VL042245.D
Acq: 07 Apr 2025 22:40



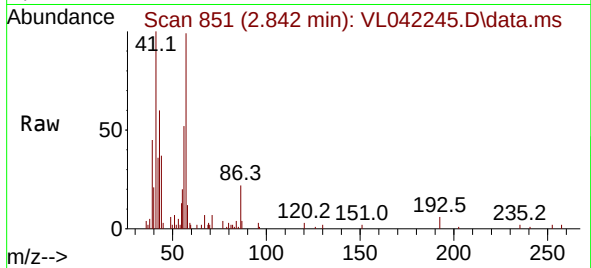
Tgt Ion: 84 Resp: 3195
Ion Ratio Lower Upper
84 100
49 151.1 120.2 180.4
51 49.6 37.4 56.0
86 48.8 52.4 78.6





#26
Hexane
Concen: 0.130 ppbv
RT: 2.842 min Scan# 845
Delta R.T. 0.019 min
Lab File: VL042245.D
Acq: 07 Apr 2025 22:40

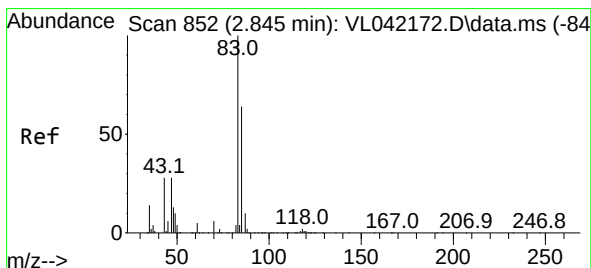
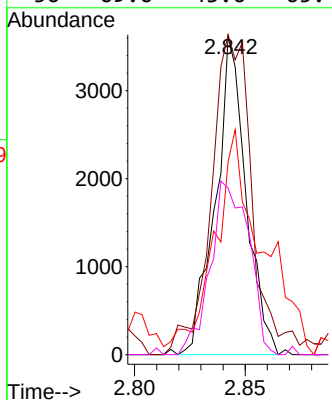
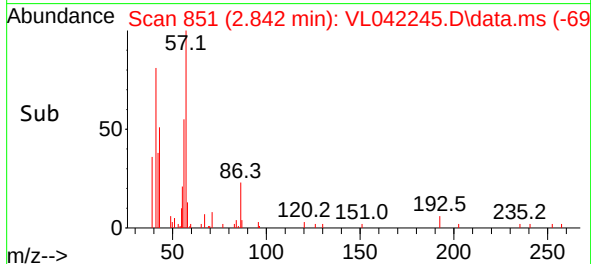
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B14-3-04012025



Tgt Ion: 57 Resp: 3470
Ion Ratio Lower Upper
57 100
41 138.7 76.6 114.8
43 107.4 207.8 311.8
56 69.6 43.6 65.4

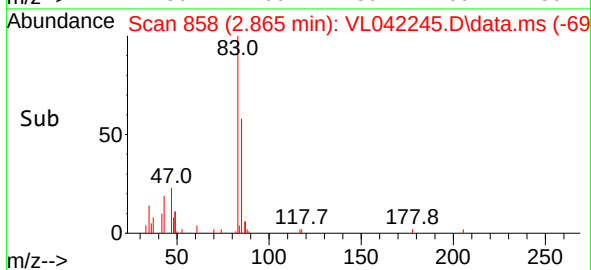
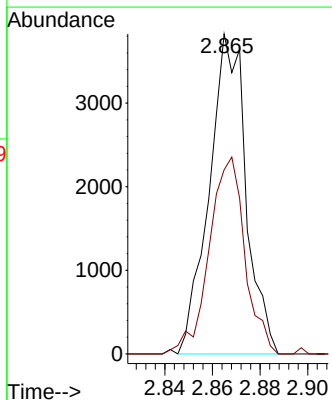
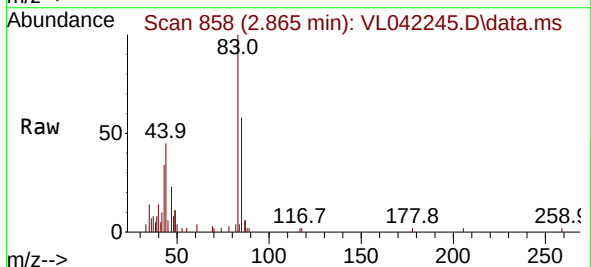
Manual Integrations
APPROVED

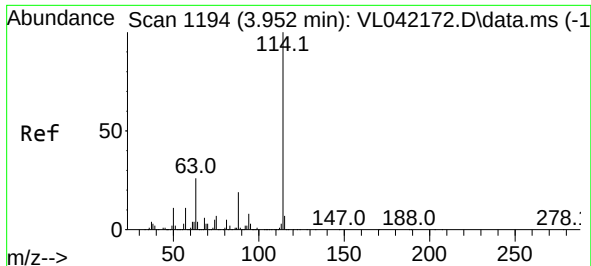
Reviewed By :Semsettin Yesilyurt 04/08/2025
Supervised By :Mahesh Dadoda 04/09/2025



#29
Chloroform
Concen: 0.105 ppbv
RT: 2.865 min Scan# 858
Delta R.T. 0.019 min
Lab File: VL042245.D
Acq: 07 Apr 2025 22:40

Tgt Ion: 83 Resp: 4102
Ion Ratio Lower Upper
83 100
85 57.6 51.4 77.2





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.988 min Scan# 1194

Delta R.T. 0.036 min

Lab File: VL042245.D

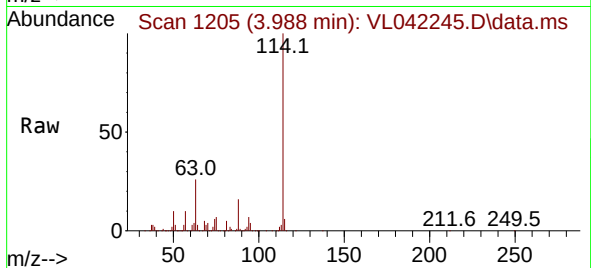
Acq: 07 Apr 2025 22:40

Instrument :

MSVOA_L

ClientSampleId :

SSSG-B14-3-04012025



Tgt Ion:114 Resp: 493918

Ion Ratio Lower Upper

114 100

63 26.3 20.7 31.1

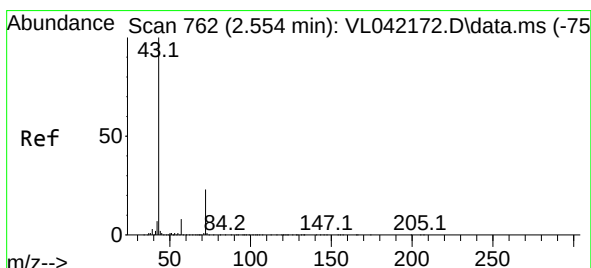
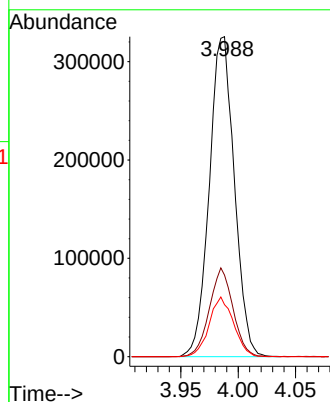
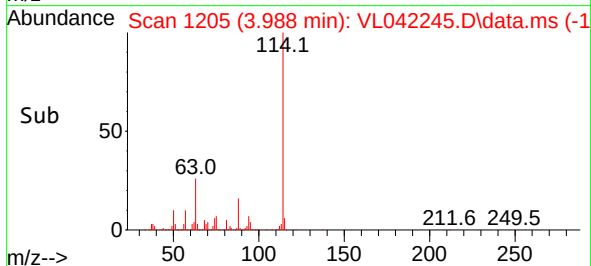
88 18.2 15.0 22.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/08/2025

Supervised By :Mahesh Dadoda 04/09/2025



#34

2-Butanone

Concen: 0.358 ppbv

RT: 2.577 min Scan# 769

Delta R.T. 0.023 min

Lab File: VL042245.D

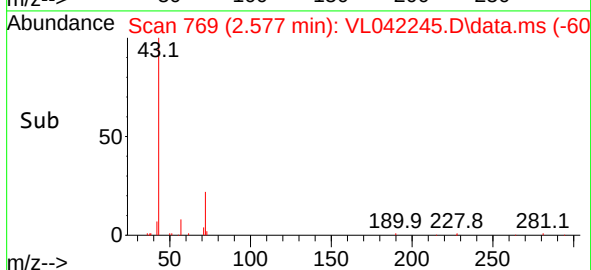
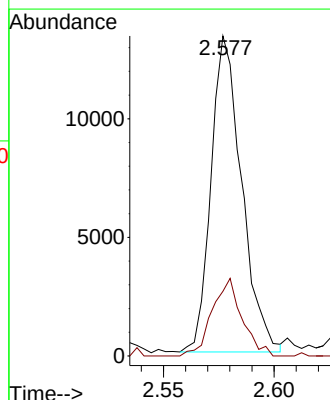
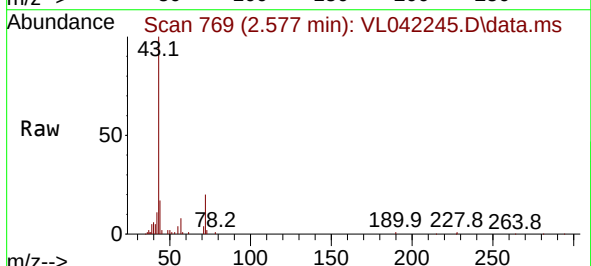
Acq: 07 Apr 2025 22:40

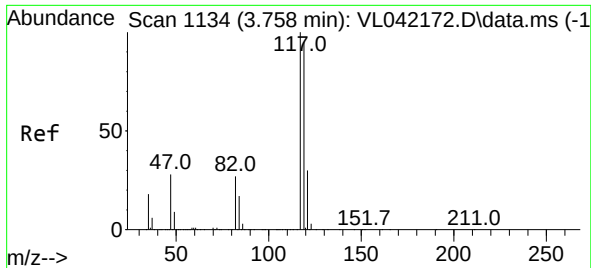
Tgt Ion: 43 Resp: 12837

Ion Ratio Lower Upper

43 100

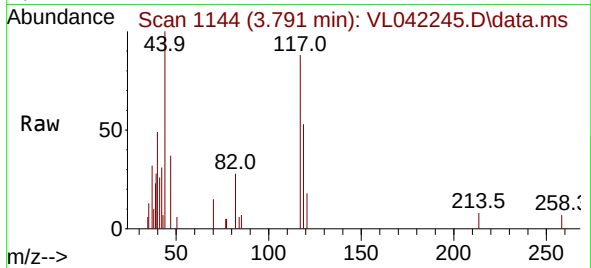
72 24.0 18.2 27.2





#35
Carbon Tetrachloride
Concen: 0.036 ppbv m
RT: 3.791 min Scan# 1134
Delta R.T. 0.032 min
Lab File: VL042245.D
Acq: 07 Apr 2025 22:40

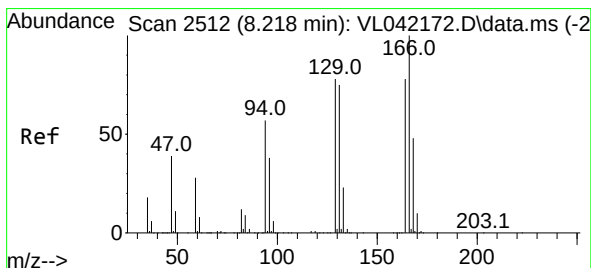
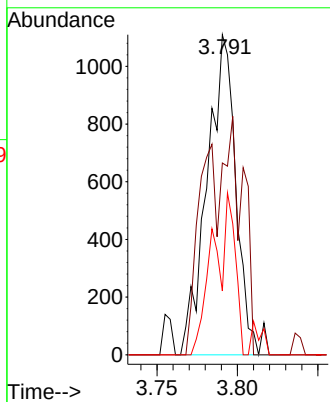
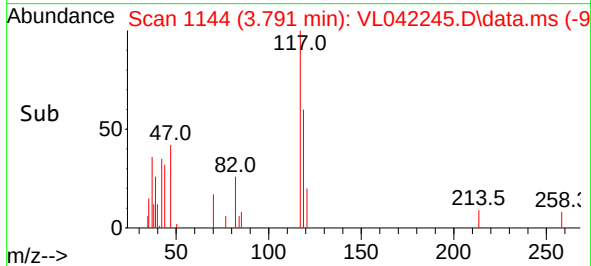
Instrument : MSVOA_L
ClientSampleId : SSSG-B14-3-04012025



Tgt Ion:117 Resp: 1389
Ion Ratio Lower Upper
117 100
119 59.9 76.2 114.2
121 19.9 24.2 36.4

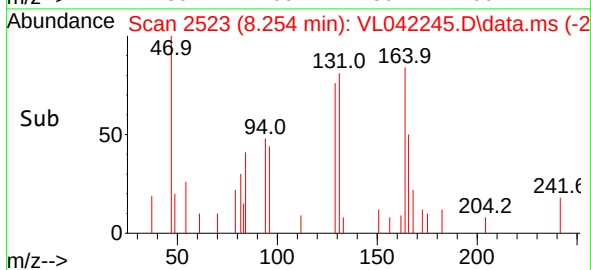
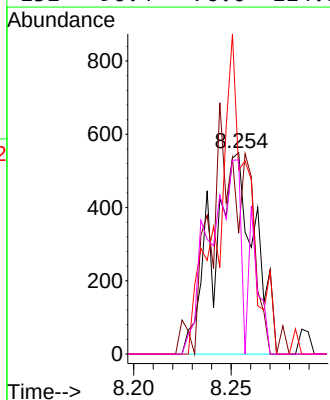
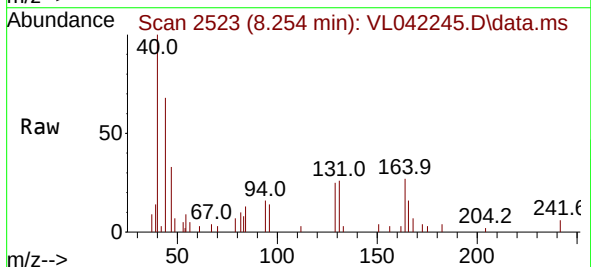
Manual Integrations
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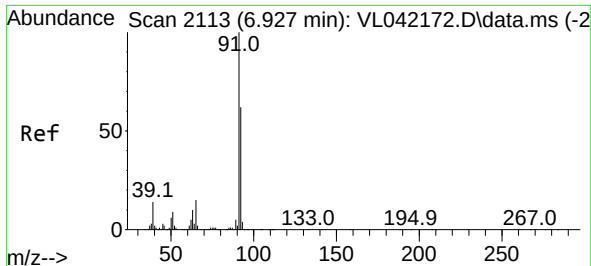
Reviewed By :Semsettin Yesilyurt 04/08/2025
Supervised By :Mahesh Dadoda 04/09/2025



#52
Tetrachloroethene
Concen: 0.042 ppbv m
RT: 8.254 min Scan# 2523
Delta R.T. 0.036 min
Lab File: VL042245.D
Acq: 07 Apr 2025 22:40

Tgt Ion:164 Resp: 816
Ion Ratio Lower Upper
164 100
166 60.0 102.5 153.7#
129 91.3 79.8 119.8
131 96.4 76.6 114.8





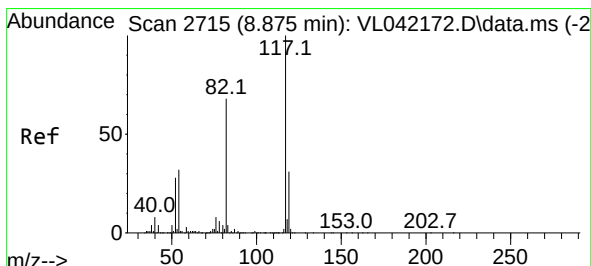
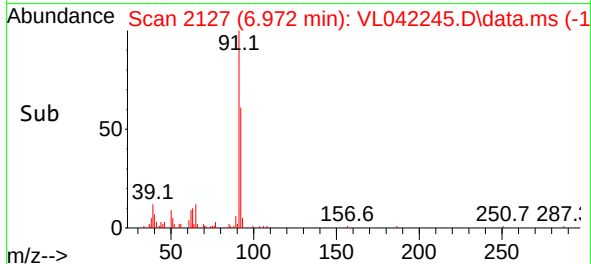
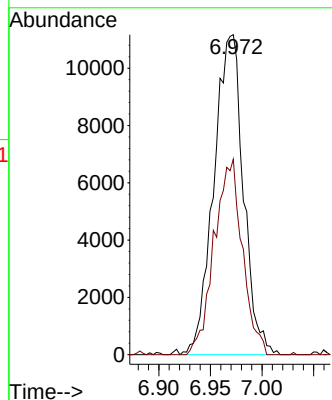
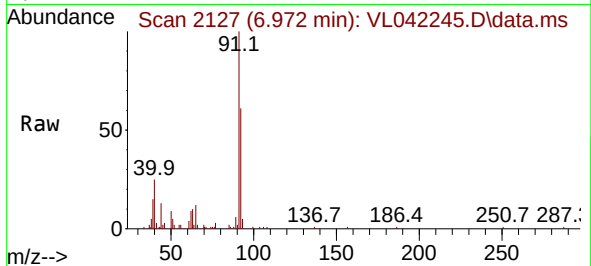
#53
Toluene
Concen: 0.384 ppbv
RT: 6.972 min Scan# 2113
Delta R.T. 0.045 min
Lab File: VL042245.D
Acq: 07 Apr 2025 22:40

Instrument :
MSVOA_L
ClientSampleId :
SSSG-B14-3-04012025

Tgt Ion: 91 Resp: 2231
Ion Ratio Lower Upper
91 100
92 57.9 48.4 72.6

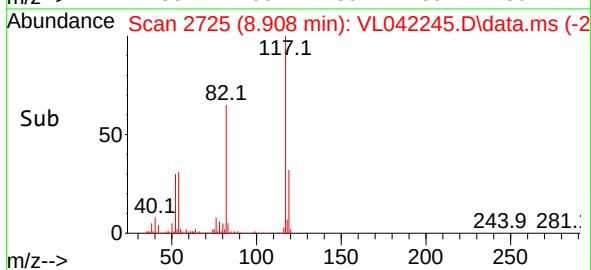
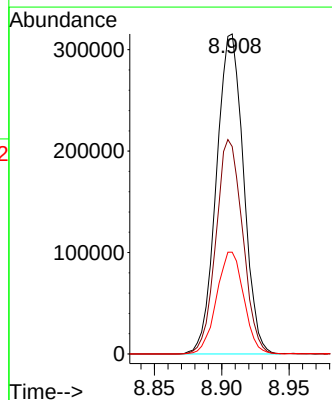
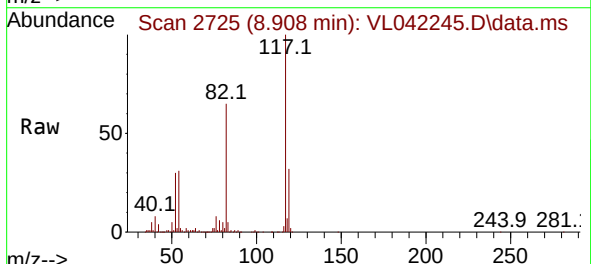
Manual Integrations
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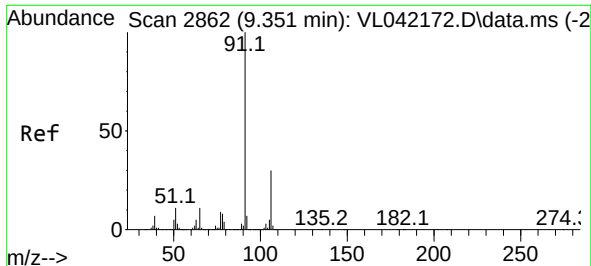
Reviewed By :Semsettin Yesilyurt 04/08/2025
Supervised By :Mahesh Dadoda 04/09/2025



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.908 min Scan# 2725
Delta R.T. 0.032 min
Lab File: VL042245.D
Acq: 07 Apr 2025 22:40

Tgt Ion:117 Resp: 441320
Ion Ratio Lower Upper
117 100
82 66.1 55.8 83.6
119 32.1 25.5 38.3





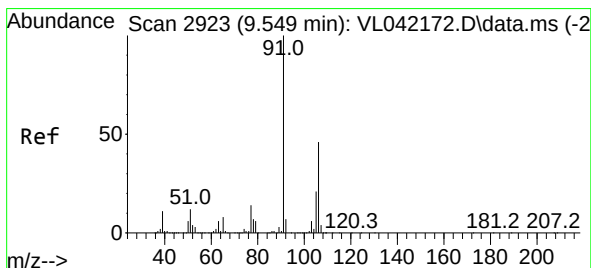
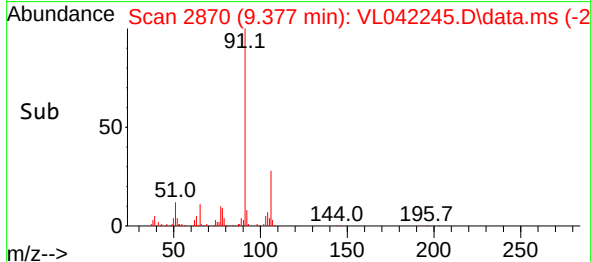
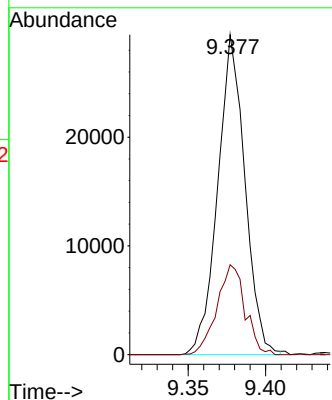
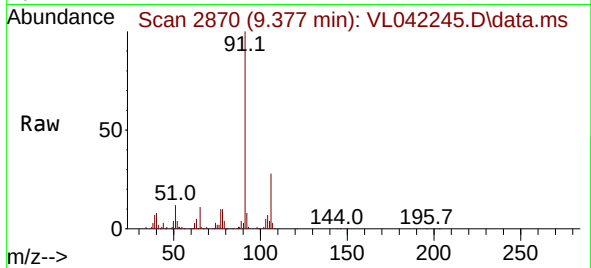
#58
Ethyl Benzene
Concen: 0.458 ppbv
RT: 9.377 min Scan# 2862
Delta R.T. 0.026 min
Lab File: VL042245.D
Acq: 07 Apr 2025 22:40

Instrument :
MSVOA_L
ClientSampleId :
SSSG-B14-3-04012025

Tgt Ion: 91 Resp: 35929
Ion Ratio Lower Upper
91 100
106 28.1 24.2 36.2

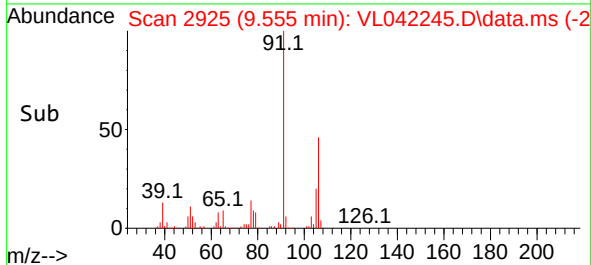
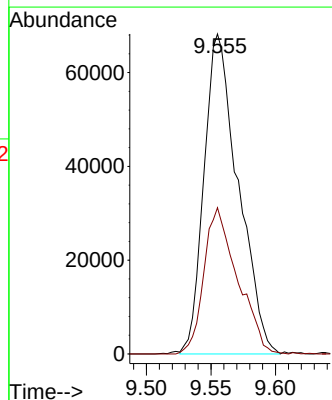
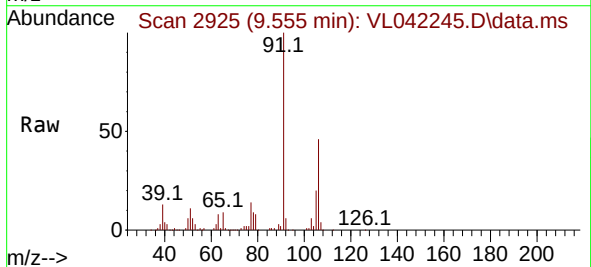
Manual Integrations
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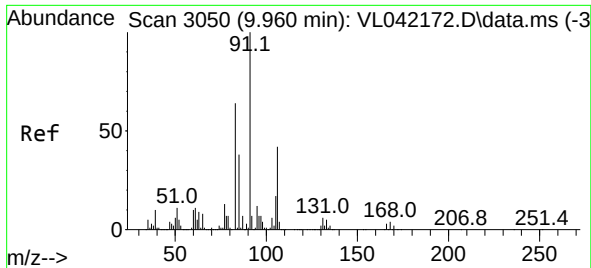
Reviewed By :Semsettin Yesilyurt 04/08/2025
Supervised By :Mahesh Dadoda 04/09/2025



#59
m/p-Xylene
Concen: 2.006 ppbv
RT: 9.555 min Scan# 2925
Delta R.T. 0.007 min
Lab File: VL042245.D
Acq: 07 Apr 2025 22:40

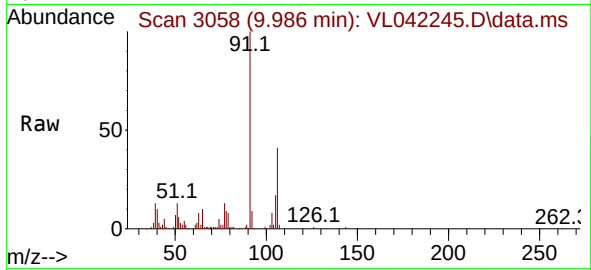
Tgt Ion: 91 Resp: 125540
Ion Ratio Lower Upper
91 100
106 45.2 36.4 54.6





#60
o-Xylene
Concen: 0.413 ppbv
RT: 9.986 min Scan# 3058
Delta R.T. 0.026 min
Lab File: VL042245.D
Acq: 07 Apr 2025 22:40

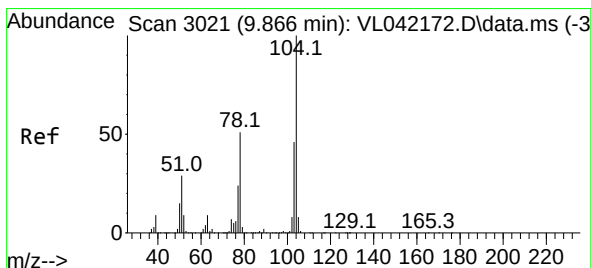
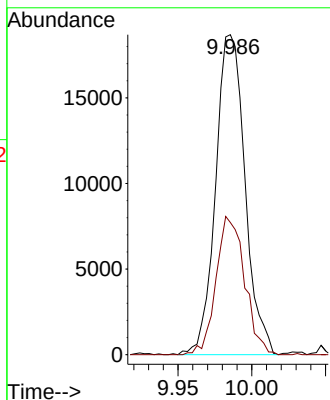
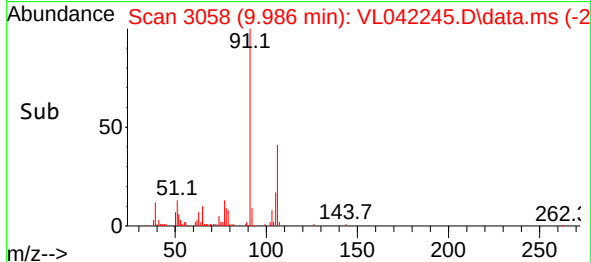
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B14-3-04012025



Tgt Ion: 91 Resp: 2593
Ion Ratio Lower Upper
91 100
106 41.9 20.8 62.5

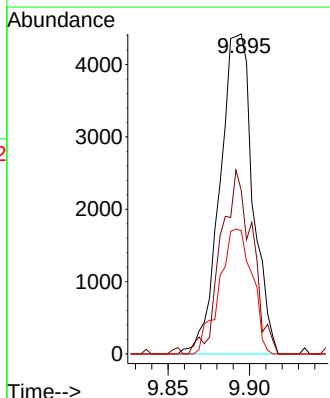
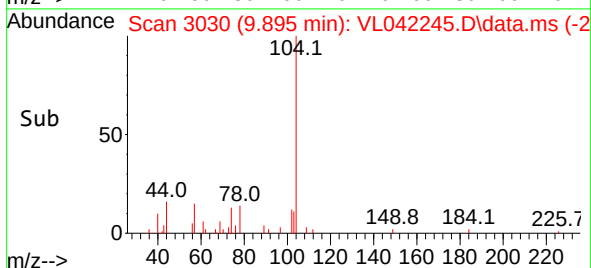
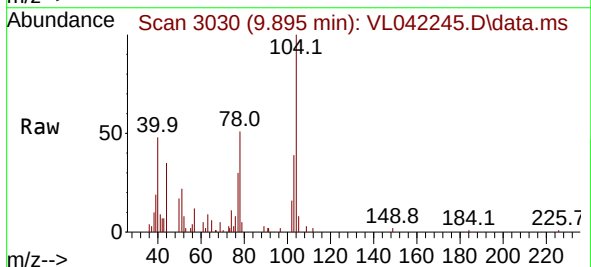
Manual Integrations
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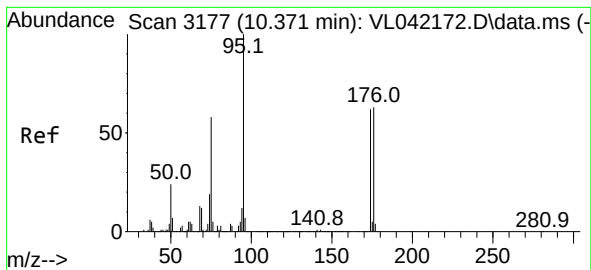
Reviewed By :Semsettin Yesilyurt 04/08/2025
Supervised By :Mahesh Dadoda 04/09/2025



#61
Styrene
Concen: 0.200 ppbv
RT: 9.895 min Scan# 3030
Delta R.T. 0.029 min
Lab File: VL042245.D
Acq: 07 Apr 2025 22:40

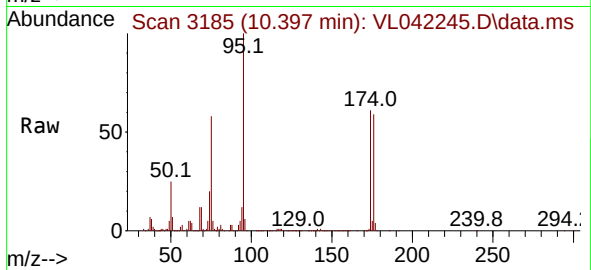
Tgt Ion:104 Resp: 6211
Ion Ratio Lower Upper
104 100
78 55.5 41.8 62.6
103 38.8 37.0 55.4





#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.853 ppbv
 RT: 10.397 min Scan# 3177
 Delta R.T. 0.026 min
 Lab File: VL042245.D
 Acq: 07 Apr 2025 22:40

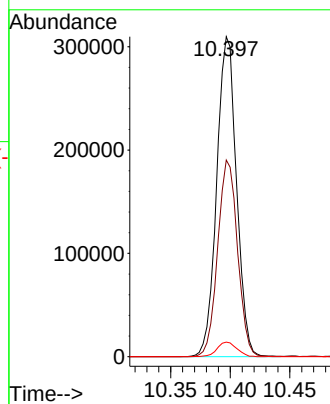
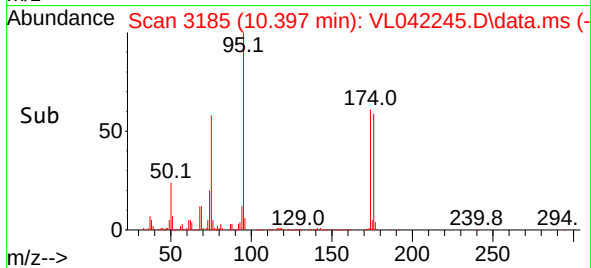
Instrument : MSVOA_L
 ClientSampleId : SSSG-B14-3-04012025



Tgt Ion: 95 Resp: 357099
 Ion Ratio Lower Upper
 95 100
 174 61.9 50.6 76.0
 175 4.6 3.8 5.6

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 04/08/2025
 Supervised By :Mahesh Dadoda 04/09/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040725\
 Data File : VL042245.D
 Acq On : 07 Apr 2025 22:40
 Operator : SY/MD
 Sample : Q1725-05 2X
 Misc : 400mL/MSVOA_L
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SSSG-B14-3-04012025

Integration Parameters: RTEINT.P

Integrator: RTE

Smoothing : ON

Filtering: 5

Sampling : 3

Min Area: 3 % of largest Peak

Start Thrs: 0.001

Max Peaks: 100

Stop Thrs : 0

Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >

Peak separation: 0

Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M

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

Signal : TIC: VL042245.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.438	412	417	422	rBV	4081257	4194889	100.00%	29.501%
2	1.496	427	435	437	rBV3	68643	48463	1.16%	0.341%
3	1.564	453	456	460	rBV	109333	65320	1.56%	0.459%
4	1.845	538	543	550	rBV	1401082	915810	21.83%	6.441%
5	1.897	554	559	572	rVB	2554764	1867573	44.52%	13.134%
6	2.803	825	839	847	rBV	681311	734742	17.52%	5.167%
7	3.985	1190	1204	1219	rBV	877699	1337026	31.87%	9.403%
8	6.966	2113	2125	2134	rBV3	31473	61793	1.47%	0.435%
9	8.904	2709	2724	2735	rBV	1105234	1583127	37.74%	11.134%
10	9.176	2798	2808	2820	rBV2	113538	167817	4.00%	1.180%
11	9.241	2820	2828	2837	rVB6	43581	66016	1.57%	0.464%
12	9.377	2860	2870	2883	rBV	75232	103200	2.46%	0.726%
13	9.555	2915	2925	2942	rVB	206911	387638	9.24%	2.726%
14	9.733	2970	2980	2987	rBV5	26053	42096	1.00%	0.296%
15	9.986	3047	3058	3067	rBV2	56409	88857	2.12%	0.625%
16	10.397	3168	3185	3197	rBV	1471196	1728321	41.20%	12.155%
17	11.769	3602	3609	3615	rBV4	38523	50360	1.20%	0.354%
18	12.060	3691	3699	3706	rVB3	87721	90954	2.17%	0.640%
19	12.245	3747	3756	3760	rBV4	84720	100748	2.40%	0.709%
20	12.271	3760	3764	3773	rVB	85921	96425	2.30%	0.678%
21	12.458	3813	3822	3835	rVB3	91084	121142	2.89%	0.852%
22	12.526	3835	3843	3849	rVB5	41472	47022	1.12%	0.331%
23	12.662	3877	3885	3891	rBV5	65036	79697	1.90%	0.560%
24	12.892	3947	3956	3962	rBV2	65059	72371	1.73%	0.509%
25	12.944	3962	3972	3981	rVB4	29573	42376	1.01%	0.298%
26	13.005	3981	3991	4003	rBV7	26948	47879	1.14%	0.337%
27	13.403	4104	4114	4121	rBV	66197	77694	1.85%	0.546%

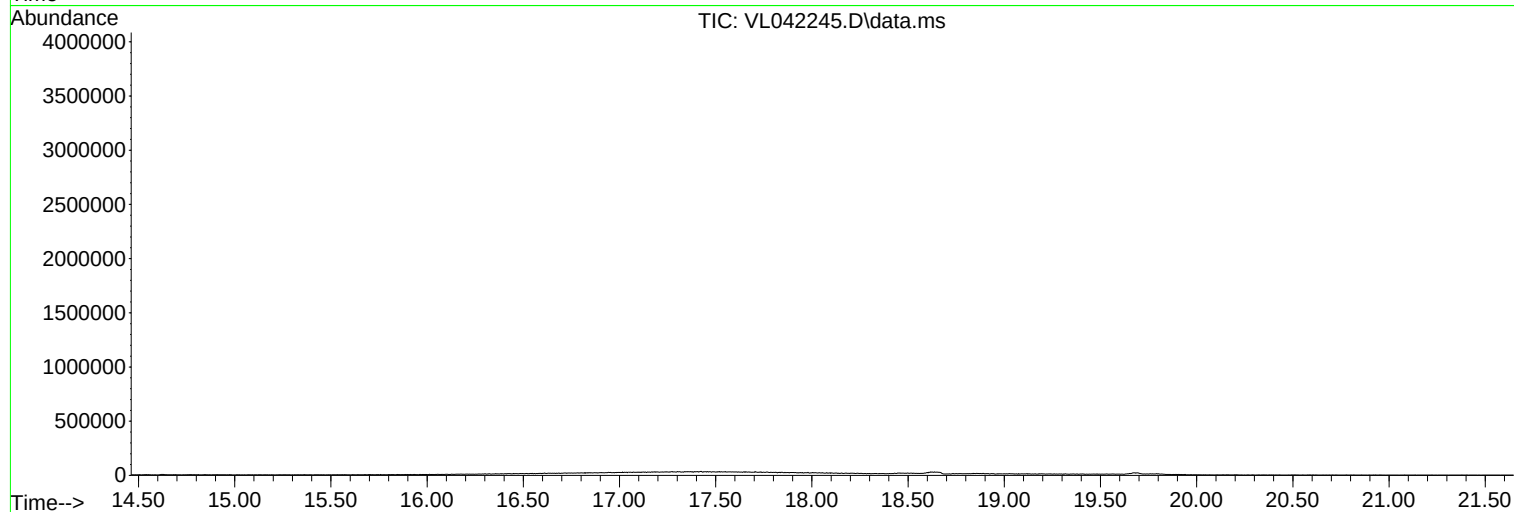
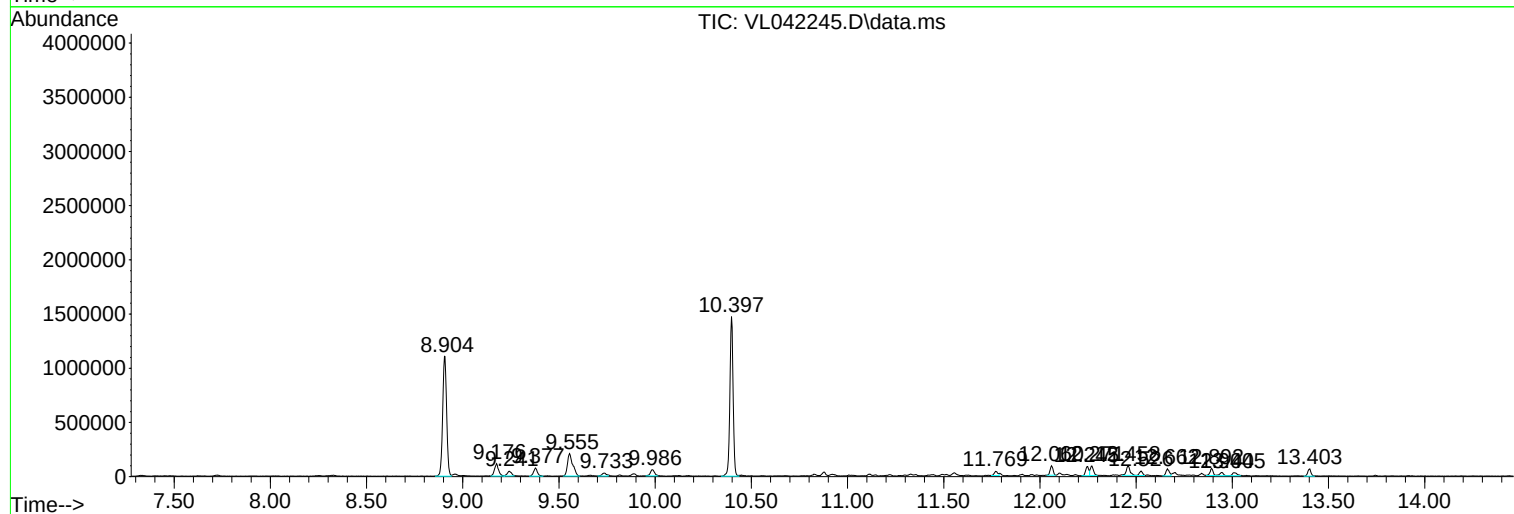
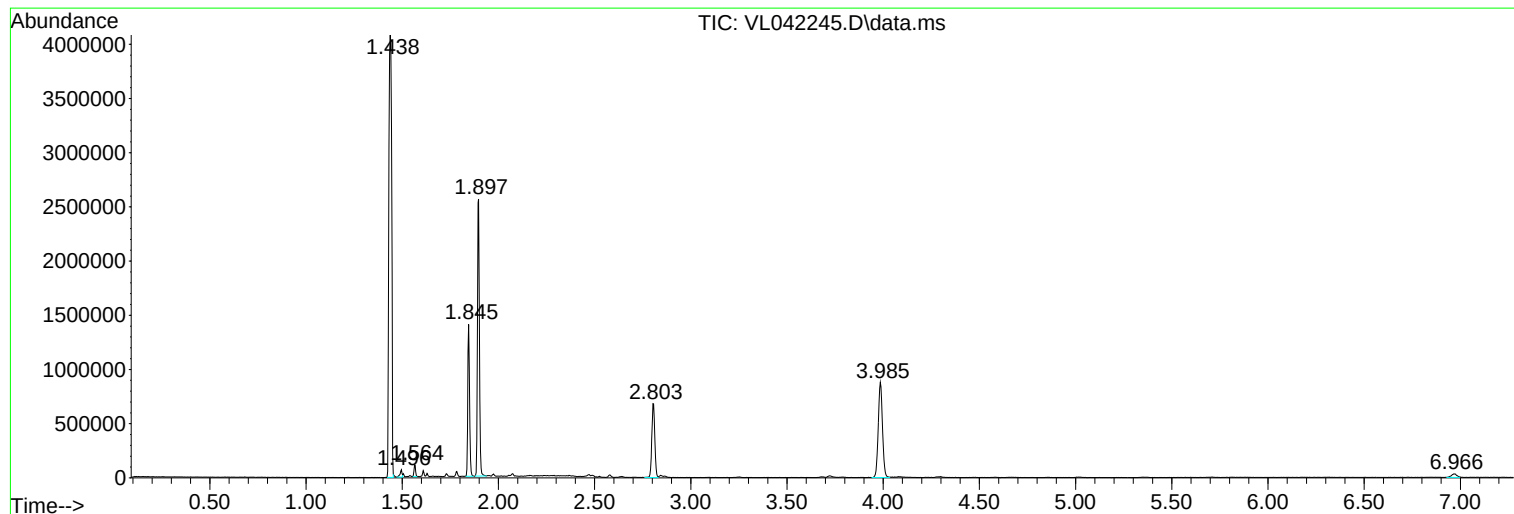
Sum of corrected areas: 14219356

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040725\
Data File : VL042245.D
Acq On : 07 Apr 2025 22:40
Operator : SY/MD
Sample : Q1725-05 2X
Misc : 400mL/MSVOA_L
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
SSSG-B14-3-04012025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040725\
Data File : VL042245.D
Acq On : 07 Apr 2025 22:40
Operator : SY/MD
Sample : Q1725-05 2X
Misc : 400mL/MSVOA_L
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
SSSG-B14-3-04012025

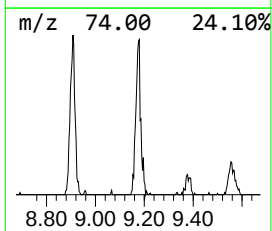
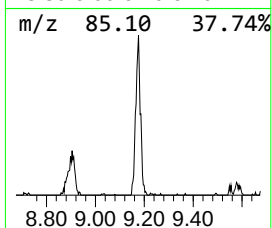
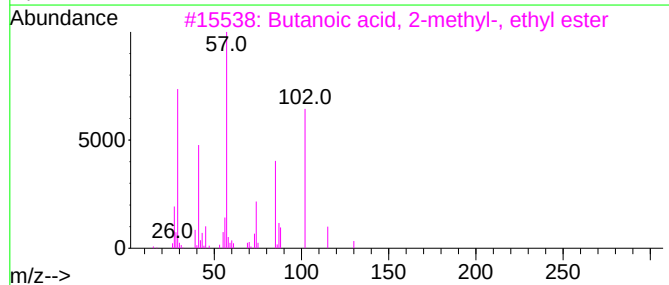
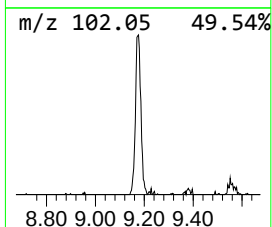
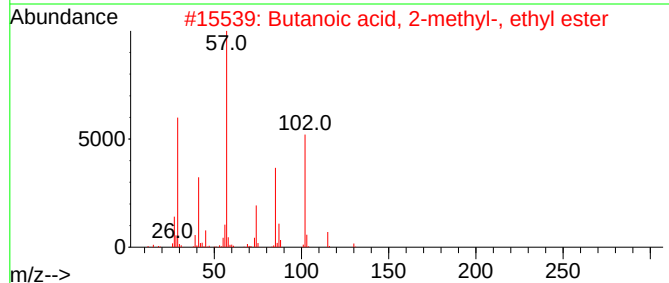
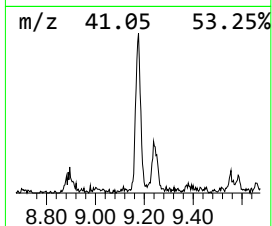
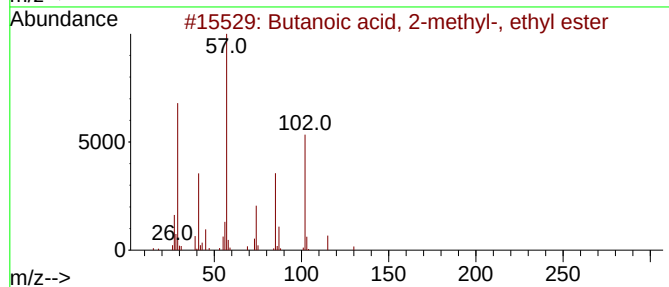
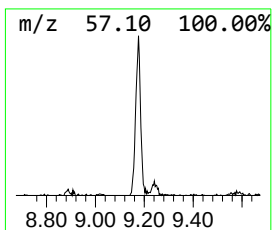
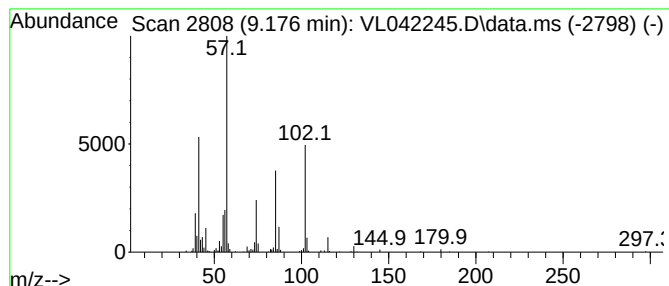
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

Peak Number 1 Butanoic acid, 2-methyl-, e... Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.176	1.06 ppbv	167817	Chlorobenzene-d5	8.908

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Butanoic acid, 2-methyl-, ethyl ...	130	C7H14O2	007452-79-1	93
2			Butanoic acid, 2-methyl-, ethyl ...	130	C7H14O2	007452-79-1	87
3			Butanoic acid, 2-methyl-, ethyl ...	130	C7H14O2	007452-79-1	72
4			Butanoic acid, 2-methyl-, ethyl ...	130	C7H14O2	007452-79-1	56
5			Butanoic acid, 2-methyl-, ethyl ...	130	C7H14O2	007452-79-1	53



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040725\
Data File : VL042245.D
Acq On : 07 Apr 2025 22:40
Operator : SY/MD
Sample : Q1725-05 2X
Misc : 400mL/MSVOA_L
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
SSSG-B14-3-04012025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	--Internal Standard--			
					#	RT	Resp	Conc
Butanoic acid, ...	9.176	1.1	ppbv	167817	3	8.908	1583130	10.0

Report of Analysis

Client:	Woodard & Curran	Date Collected:	04/01/25
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	04/03/25
Client Sample ID:	SSSG-B14-3-04012025DL	SDG No.:	Q1725
Lab Sample ID:	Q1725-05DL	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042239.D	10		04/07/25 19:17	VL040725

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	2.10	10.4	UD	10.4	24.7	ug/m3
74-87-3	Chloromethane	0.98	2.02	UD	2.02	10.3	ug/m3
75-01-4	Vinyl Chloride	0.14	0.36	UD	0.36	0.77	ug/m3
74-83-9	Bromomethane	1.40	5.44	UD	5.44	19.4	ug/m3
75-00-3	Chloroethane	1.70	4.49	UD	4.49	13.2	ug/m3
109-99-9	Tetrahydrofuran	1.30	3.83	UD	3.83	14.8	ug/m3
75-69-4	Trichlorofluoromethane	1.60	8.99	UD	8.99	28.1	ug/m3
76-13-1	1,1,2-Trichlorotrifluoroethane	1.60	12.3	UD	12.3	38.3	ug/m3
76-14-2	Dichlorotetrafluoroethane	0.88	6.15	UD	6.15	35.0	ug/m3
75-65-0	tert-Butyl alcohol	1.90	5.76	UD	5.76	15.2	ug/m3
142-82-5	Heptane	1.10	4.51	UD	4.51	20.5	ug/m3
75-35-4	1,1-Dichloroethene	1.40	5.55	UD	5.55	19.8	ug/m3
67-64-1	Acetone	46.2	110	D	5.70	11.9	ug/m3
75-15-0	Carbon Disulfide	1.60	4.98	UD	4.98	15.6	ug/m3
1634-04-4	Methyl tert-Butyl Ether	1.20	4.33	UD	4.33	18.0	ug/m3
75-09-2	Methylene Chloride	1.90	6.60	UD	6.60	17.4	ug/m3
156-60-5	trans-1,2-Dichloroethene	1.90	7.53	UD	7.53	19.8	ug/m3
75-34-3	1,1-Dichloroethane	1.30	5.26	UD	5.26	20.2	ug/m3
110-82-7	Cyclohexane	2.20	7.57	UD	7.57	17.2	ug/m3
78-93-3	2-Butanone	1.20	3.54	UD	3.54	14.8	ug/m3
56-23-5	Carbon Tetrachloride	0.11	0.69	UD	0.69	1.89	ug/m3
156-59-2	cis-1,2-Dichloroethene	0.89	3.53	UD	3.53	19.8	ug/m3
67-66-3	Chloroform	0.83	4.05	UD	4.05	24.4	ug/m3
71-55-6	1,1,1-Trichloroethane	0.10	0.55	UD	0.55	1.64	ug/m3
540-84-1	2,2,4-Trimethylpentane	1.00	4.67	UD	4.67	23.4	ug/m3
71-43-2	Benzene	0.87	2.78	UD	2.78	16.0	ug/m3
107-06-2	1,2-Dichloroethane	0.91	3.68	UD	3.68	20.2	ug/m3
79-01-6	Trichloroethene	0.17	0.91	UD	0.91	1.61	ug/m3
78-87-5	1,2-Dichloropropane	1.10	5.08	UD	5.08	23.1	ug/m3
75-27-4	Bromodichloromethane	0.77	5.16	UD	5.16	33.5	ug/m3
108-10-1	4-Methyl-2-Pentanone	0.93	3.81	UD	3.81	20.5	ug/m3
108-88-3	Toluene	1.10	4.15	UD	4.15	18.8	ug/m3
10061-02-6	t-1,3-Dichloropropene	0.60	2.72	UD	2.72	22.7	ug/m3
10061-01-5	cis-1,3-Dichloropropene	0.64	2.91	UD	2.91	22.7	ug/m3
79-00-5	1,1,2-Trichloroethane	0.71	3.87	UD	3.87	27.3	ug/m3

Report of Analysis

Client:	Woodard & Curran	Date Collected:	04/01/25
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	04/03/25
Client Sample ID:	SSSG-B14-3-04012025DL	SDG No.:	Q1725
Lab Sample ID:	Q1725-05DL	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042239.D	10		04/07/25 19:17	VL040725

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
124-48-1	Dibromochloromethane	0.66	5.62	UD	5.62	42.6	ug/m3
106-93-4	1,2-Dibromoethane	0.72	5.53	UD	5.53	7.69	ug/m3
127-18-4	Tetrachloroethene	0.15	1.02	UD	1.02	2.03	ug/m3
108-90-7	Chlorobenzene	0.76	3.50	UD	3.50	23.0	ug/m3
100-41-4	Ethyl Benzene	1.20	5.21	UD	5.21	21.7	ug/m3
179601-23-1	m/p-Xylene	3.00	13.0	JD	9.12	43.4	ug/m3
95-47-6	o-Xylene	1.20	5.21	UD	5.21	21.7	ug/m3
100-42-5	Styrene	1.10	4.68	UD	4.68	21.3	ug/m3
75-25-2	Bromoform	0.57	5.89	UD	5.89	51.7	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	0.11	0.76	UD	0.76	2.06	ug/m3
95-49-8	2-Chlorotoluene	1.10	5.70	UD	5.70	25.9	ug/m3
108-67-8	1,3,5-Trimethylbenzene	1.10	5.41	UD	5.41	24.6	ug/m3
95-63-6	1,2,4-Trimethylbenzene	0.78	3.83	UD	3.83	24.6	ug/m3
541-73-1	1,3-Dichlorobenzene	0.80	4.81	UD	4.81	30.1	ug/m3
106-46-7	1,4-Dichlorobenzene	0.53	3.19	UD	3.19	30.1	ug/m3
95-50-1	1,2-Dichlorobenzene	0.75	4.51	UD	4.51	30.1	ug/m3
120-82-1	1,2,4-Trichlorobenzene	0.85	6.31	UD	6.31	37.1	ug/m3
87-68-3	Hexachloro-1,3-Butadiene	0.85	9.07	UD	9.07	53.3	ug/m3
106-99-0	1,3-Butadiene	1.30	2.88	UD	2.88	11.1	ug/m3
91-20-3	Naphthalene	0.75	3.93	UD	3.93	5.24	ug/m3
622-96-8	4-Ethyltoluene	1.20	5.90	UD	5.90	24.6	ug/m3
110-54-3	Hexane	1.10	3.88	UD	3.88	17.6	ug/m3
107-05-1	Allyl Chloride	1.50	4.70	UD	4.70	15.7	ug/m3
123-91-1	1,4-Dioxane	2.10	7.57	UD	7.57	18.0	ug/m3
80-62-6	Methyl Methacrylate	0.86	3.52	UD	3.52	20.5	ug/m3
SURROGATES							
460-00-4	1-Bromo-4-Fluorobenzene	9.70			70 (65) - 130 (135)	97%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	193000		2.803			
540-36-3	1,4-Difluorobenzene	502000		3.985			
3114-55-4	Chlorobenzene-d5	443000		8.908			

Report of Analysis

Client:	Woodard & Curran	Date Collected:	04/01/25
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	04/03/25
Client Sample ID:	SSSG-B14-3-04012025DL	SDG No.:	Q1725
Lab Sample ID:	Q1725-05DL	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042239.D	10		04/07/25 19:17	VL040725

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units

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\VL040725\
 Data File : VL042239.D
 Acq On : 07 Apr 2025 19:17
 Operator : SY/MD
 Sample : Q1725-05DL 10X
 Misc : 400mL/MSVOA_L
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SSSG-B14-3-04012025DL

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 04/08/2025
 Supervised By :Mahesh Dadoda 04/09/2025

Quant Time: Apr 08 01:34:26 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 2025
 QLast Update : Fri Mar 28 02:00:52 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.803	49	192644	10.000	ppbv	0.02
33) 1,4-Difluorobenzene	3.985	114	502203	10.000	ppbv	0.03
55) Chlorobenzene-d5	8.908	117	443302	10.000	ppbv	0.03
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.397	95	352454	9.682	ppbv	0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	96.800%
Target Compounds						
					Qvalue	
13) Ethanol	1.732	45	2731m	2.169	ppbv	
15) Acetone	1.845	43	124436	4.619	ppbv	94
19) Isopropyl Alcohol	1.897	45	243073	15.990	ppbv #	32
20) Methylene Chloride	2.072	84	1777	0.177	ppbv #	59
59) m/p-Xylene	9.555	91	18879	0.300	ppbv	99

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

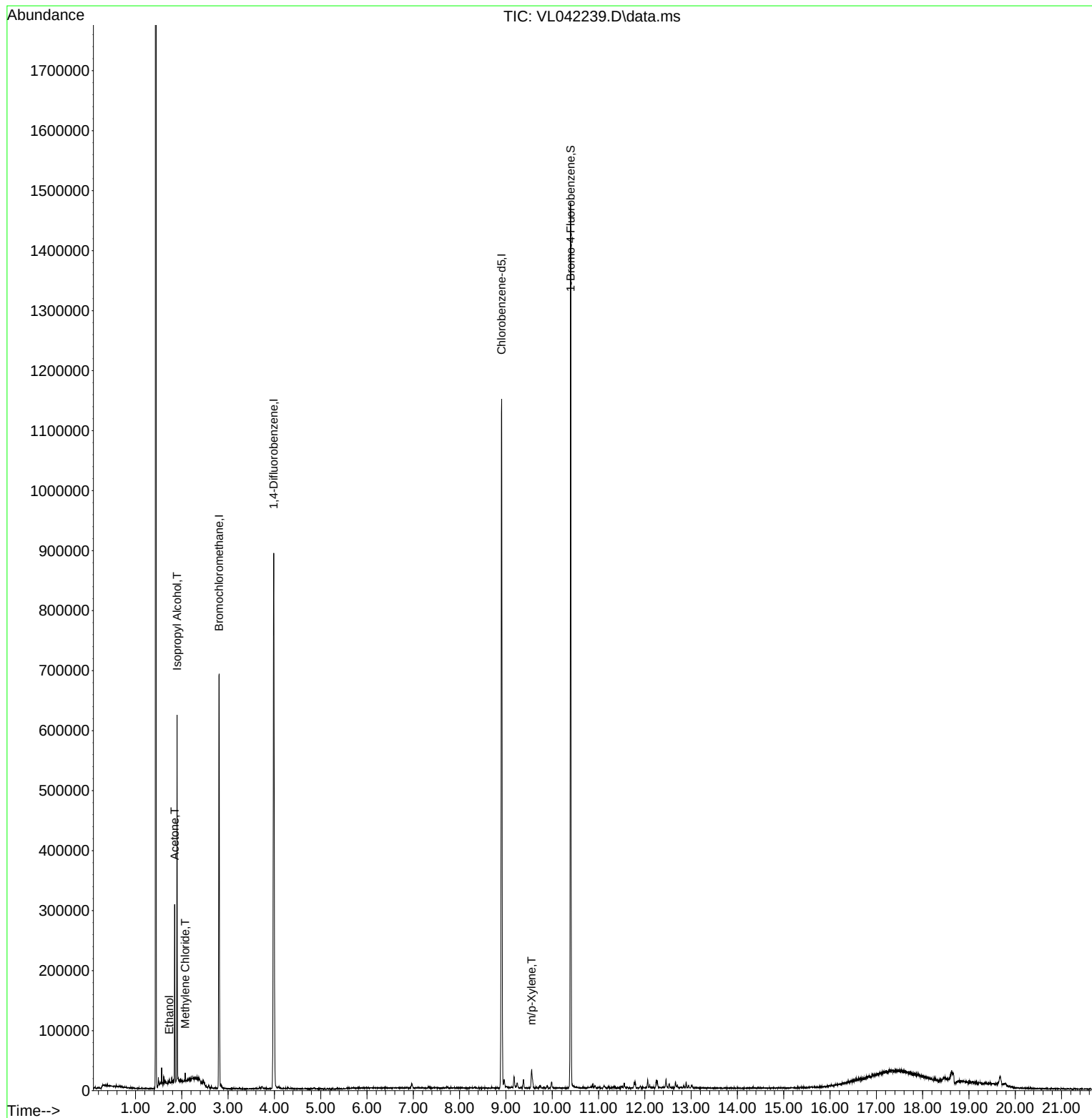
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Data File : VL042239.D
Acq On : 07 Apr 2025 19:17
Operator : SY/MD
Sample : Q1725-05DL 10X
Misc : 400mL/MSVOA_L
ALS Vial : 9 Sample Multiplier: 1

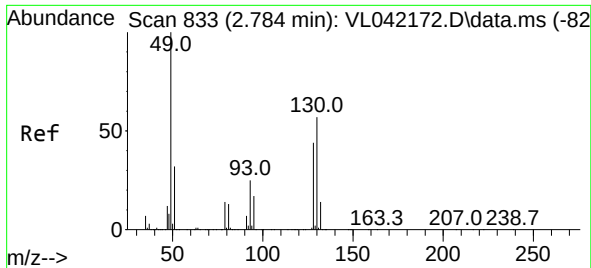
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B14-3-04012025DL

Quant Time: Apr 08 01:34:26 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Fri Mar 28 02:00:52 2025
Response via : Initial Calibration

Manual Integrations
APPROVED

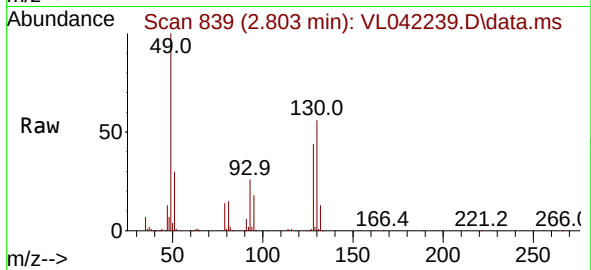
Reviewed By :Semsettin Yesilyurt 04/08/2025
Supervised By :Mahesh Dadoda 04/09/2025





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.803 min Scan# 81
Delta R.T. 0.019 min
Lab File: VL042239.D
Acq: 07 Apr 2025 19:17

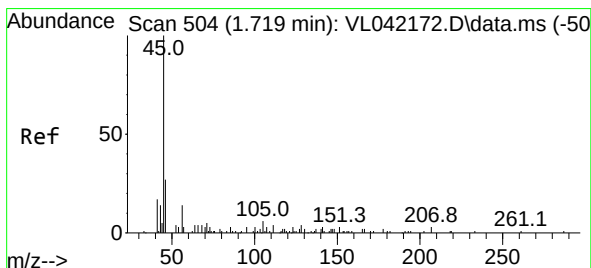
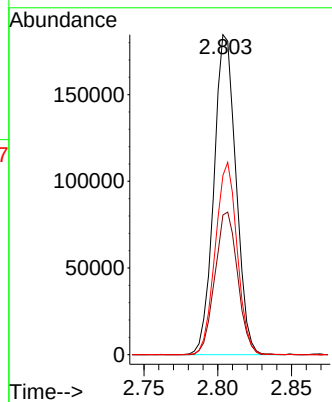
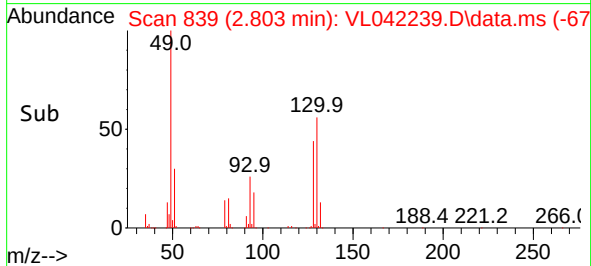
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B14-3-04012025DL



Tgt Ion: 49 Resp: 192644
Ion Ratio Lower Upper
49 100
128 45.8 22.9 68.5
130 59.4 28.8 86.4

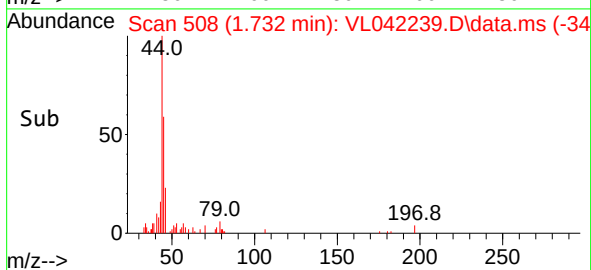
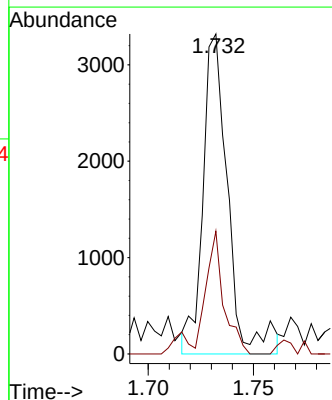
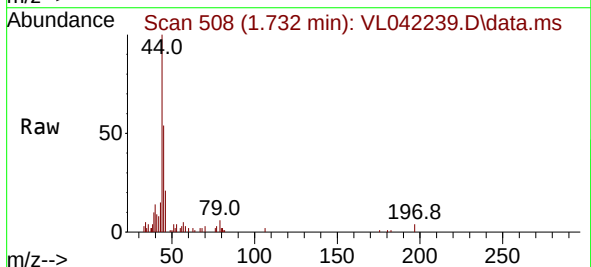
Manual Integrations
APPROVED

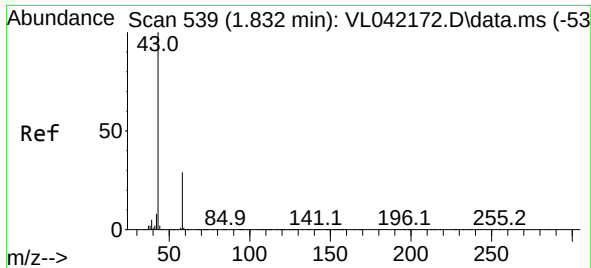
Reviewed By :Semsettin Yesilyurt 04/08/2025
Supervised By :Mahesh Dadoda 04/09/2025



#13
Ethanol
Concen: 2.169 ppbv m
RT: 1.732 min Scan# 508
Delta R.T. 0.013 min
Lab File: VL042239.D
Acq: 07 Apr 2025 19:17

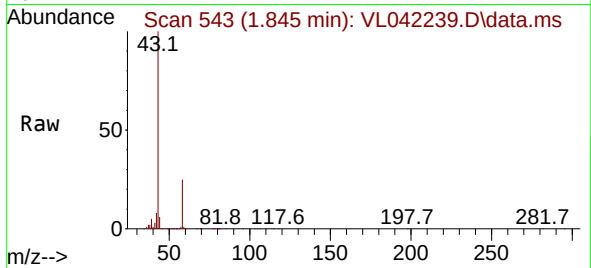
Tgt Ion: 45 Resp: 2731
Ion Ratio Lower Upper
45 100
46 228.3 20.2 80.8#





#15
Acetone
Concen: 4.619 ppbv
RT: 1.845 min Scan# 541
Delta R.T. 0.013 min
Lab File: VL042239.D
Acq: 07 Apr 2025 19:17

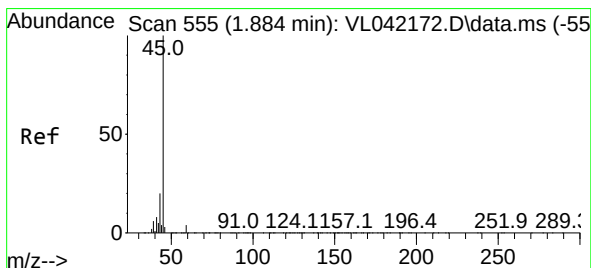
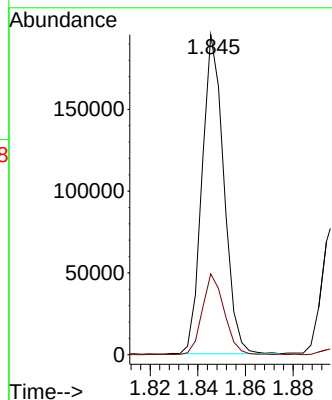
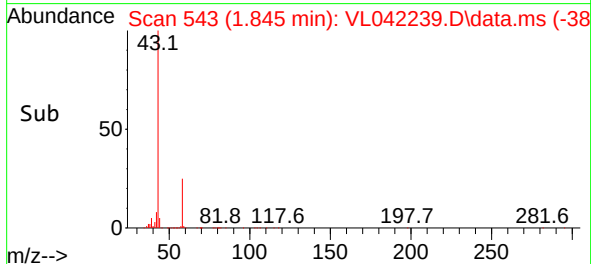
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B14-3-04012025DL



Tgt Ion: 43 Resp: 124430
Ion Ratio Lower Upper
43 100
58 25.7 23.2 34.8

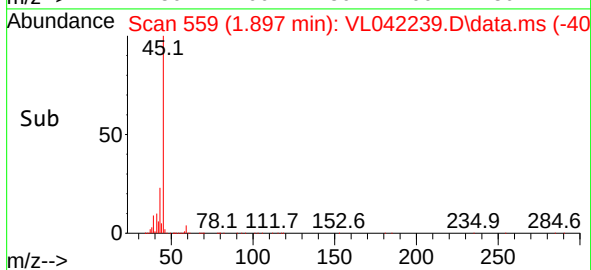
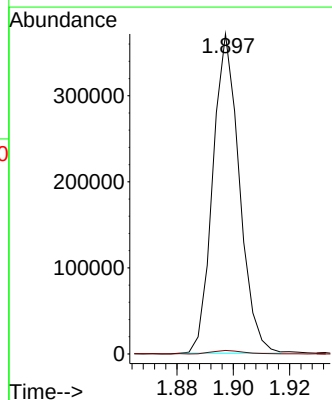
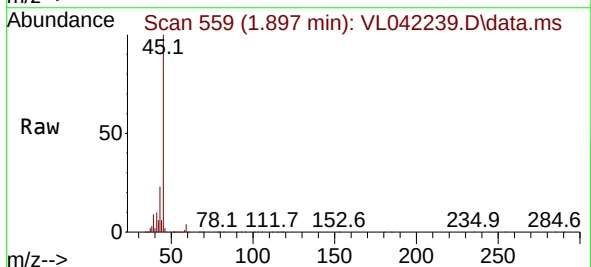
Manual Integrations
APPROVED

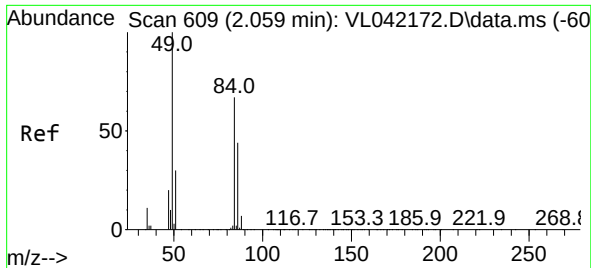
Reviewed By :Semsettin Yesilyurt 04/08/2025
Supervised By :Mahesh Dadoda 04/09/2025



#19
Isopropyl Alcohol
Concen: 15.990 ppbv
RT: 1.897 min Scan# 559
Delta R.T. 0.013 min
Lab File: VL042239.D
Acq: 07 Apr 2025 19:17

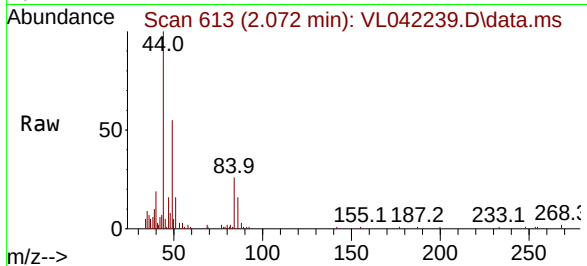
Tgt Ion: 45 Resp: 243073
Ion Ratio Lower Upper
45 100
58 1.3 36.9 55.3#





#20
Methylene Chloride
Concen: 0.177 ppbv
RT: 2.072 min Scan# 613
Delta R.T. 0.013 min
Lab File: VL042239.D
Acq: 07 Apr 2025 19:17

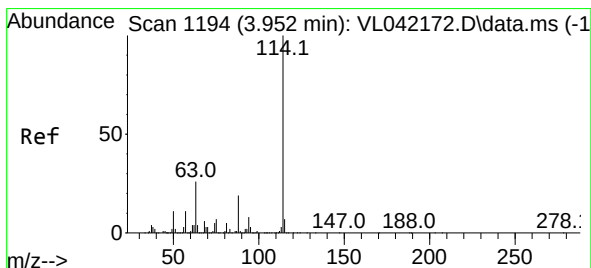
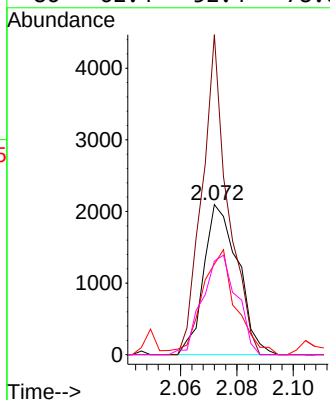
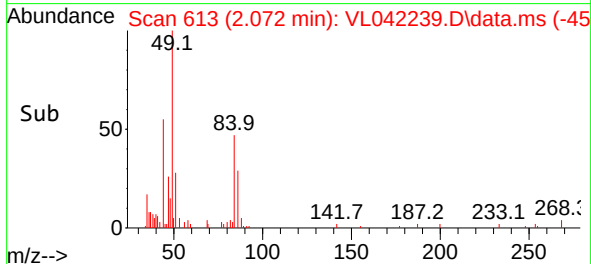
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B14-3-04012025DL



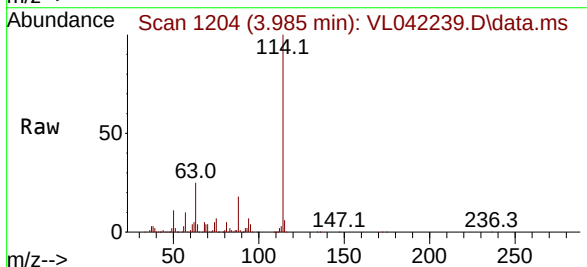
Tgt Ion: 84 Resp: 177
Ion Ratio Lower Upper
84 100
49 231.4 120.2 180.4
51 60.3 37.4 56.0
86 62.4 52.4 78.6

Manual Integrations
APPROVED

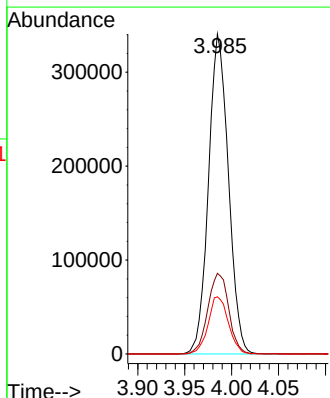
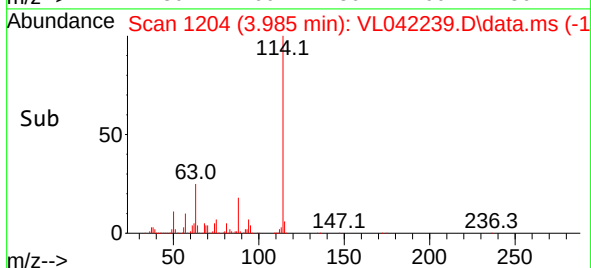
Reviewed By :Semsettin Yesilyurt 04/08/2025
Supervised By :Mahesh Dadoda 04/09/2025

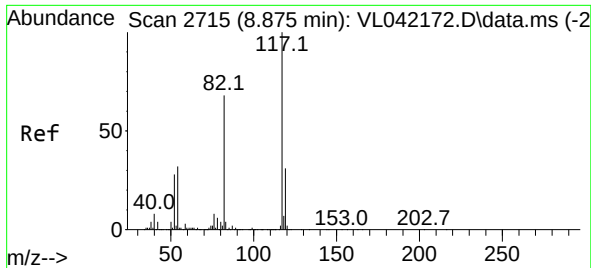


#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.985 min Scan# 1204
Delta R.T. 0.032 min
Lab File: VL042239.D
Acq: 07 Apr 2025 19:17



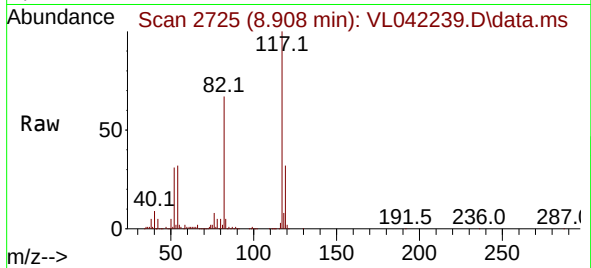
Tgt Ion:114 Resp: 502203
Ion Ratio Lower Upper
114 100
63 26.6 20.7 31.1
88 18.2 15.0 22.4





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.908 min Scan# 21
Delta R.T. 0.032 min
Lab File: VL042239.D
Acq: 07 Apr 2025 19:17

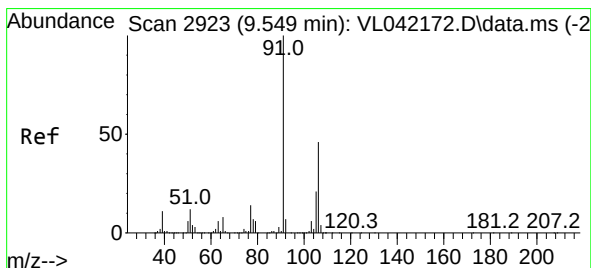
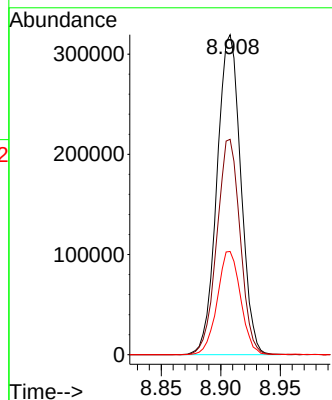
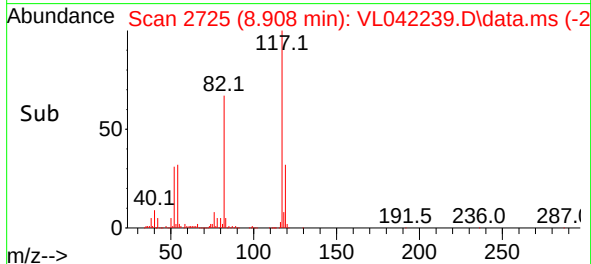
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B14-3-04012025DL



Tgt Ion: 117 Resp: 443302
Ion Ratio Lower Upper
117 100
82 66.1 55.8 83.6
119 31.8 25.5 38.3

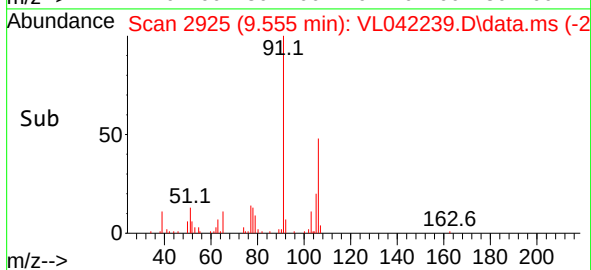
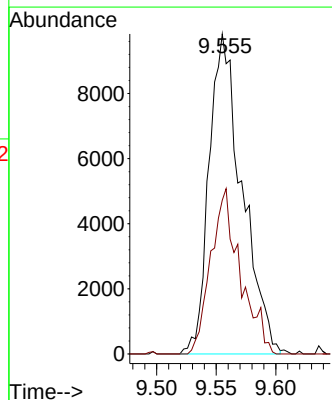
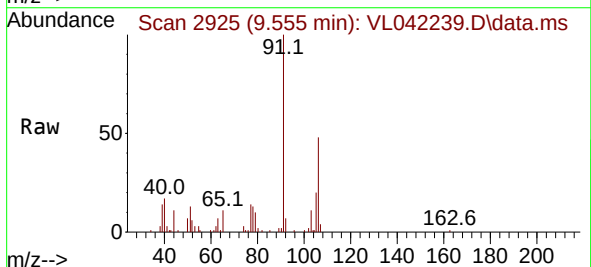
Manual Integrations
APPROVED

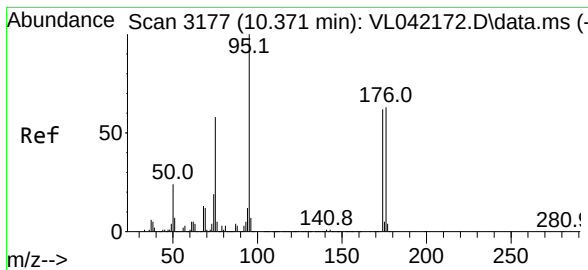
Reviewed By :Semsettin Yesilyurt 04/08/2025
Supervised By :Mahesh Dadoda 04/09/2025



#59
m/p-Xylene
Concen: 0.300 ppbv
RT: 9.555 min Scan# 2925
Delta R.T. 0.007 min
Lab File: VL042239.D
Acq: 07 Apr 2025 19:17

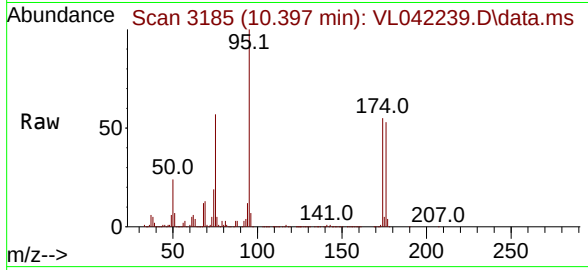
Tgt Ion: 91 Resp: 18879
Ion Ratio Lower Upper
91 100
106 46.4 36.4 54.6





#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.682 ppbv
 RT: 10.397 min Scan# 3177
 Delta R.T. 0.026 min
 Lab File: VL042239.D
 Acq: 07 Apr 2025 19:17

Instrument : MSVOA_L
 ClientSampleId : SSSG-B14-3-04012025DL

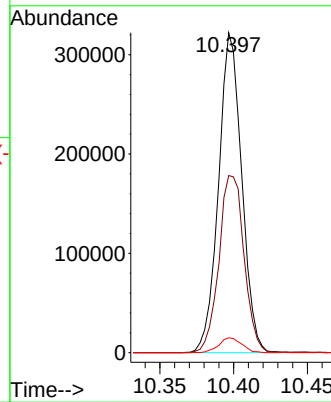
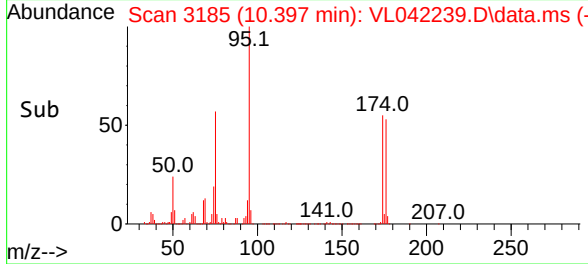


Tgt Ion: 95 Resp: 352454

Ion	Ratio	Lower	Upper
95	100		
174	60.1	50.6	76.0
175	4.6	3.8	5.6

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 04/08/2025
 Supervised By :Mahesh Dadoda 04/09/2025



Report of Analysis

Client:	Woodard & Curran	Date Collected:	03/31/25
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	04/03/25
Client Sample ID:	SSSG-B10-3-03312025	SDG No.:	Q1725
Lab Sample ID:	Q1725-06	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042247.D	4		04/07/25 23:41	VL040725

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.84	4.15	U	4.15	9.89	ug/m3
74-87-3	Chloromethane	0.65	1.34	J	0.81	4.13	ug/m3
75-01-4	Vinyl Chloride	0.060	0.15	U	0.15	0.31	ug/m3
74-83-9	Bromomethane	0.56	2.17	U	2.17	7.77	ug/m3
75-00-3	Chloroethane	0.68	1.79	U	1.79	5.28	ug/m3
109-99-9	Tetrahydrofuran	0.97	2.86	J	1.53	5.90	ug/m3
75-69-4	Trichlorofluoromethane	0.64	3.60	U	3.60	11.2	ug/m3
76-13-1	1,1,2-Trichlorotrifluoroethane	0.64	4.91	U	4.91	15.3	ug/m3
76-14-2	Dichlorotetrafluoroethane	0.35	2.45	U	2.45	14.0	ug/m3
75-65-0	tert-Butyl alcohol	1.20	3.64	J	2.30	6.06	ug/m3
142-82-5	Heptane	0.44	1.80	U	1.80	8.20	ug/m3
75-35-4	1,1-Dichloroethene	0.56	2.22	U	2.22	7.93	ug/m3
67-64-1	Acetone	160	380	E	2.28	4.75	ug/m3
75-15-0	Carbon Disulfide	0.64	1.99	U	1.99	6.23	ug/m3
1634-04-4	Methyl tert-Butyl Ether	0.48	1.73	U	1.73	7.21	ug/m3
75-09-2	Methylene Chloride	6.80	23.6		2.64	6.95	ug/m3
156-60-5	trans-1,2-Dichloroethene	0.76	3.01	U	3.01	7.93	ug/m3
75-34-3	1,1-Dichloroethane	0.52	2.10	U	2.10	8.09	ug/m3
110-82-7	Cyclohexane	0.88	3.03	U	3.03	6.88	ug/m3
78-93-3	2-Butanone	19.6	57.8		1.42	5.90	ug/m3
56-23-5	Carbon Tetrachloride	0.040	0.25	U	0.25	0.75	ug/m3
156-59-2	cis-1,2-Dichloroethene	0.36	1.43	U	1.43	7.93	ug/m3
67-66-3	Chloroform	1.40	6.84	J	1.61	9.77	ug/m3
71-55-6	1,1,1-Trichloroethane	0.040	0.22	U	0.22	0.65	ug/m3
540-84-1	2,2,4-Trimethylpentane	0.40	1.87	U	1.87	9.34	ug/m3
71-43-2	Benzene	0.35	1.12	U	1.12	6.39	ug/m3
107-06-2	1,2-Dichloroethane	0.36	1.46	U	1.46	8.09	ug/m3
79-01-6	Trichloroethene	0.070	0.38	U	0.38	0.64	ug/m3
78-87-5	1,2-Dichloropropane	0.44	2.03	U	2.03	9.24	ug/m3
75-27-4	Bromodichloromethane	0.31	2.08	U	2.08	13.4	ug/m3
108-10-1	4-Methyl-2-Pentanone	0.37	1.52	U	1.52	8.20	ug/m3
108-88-3	Toluene	0.48	1.81	J	1.66	7.54	ug/m3
10061-02-6	t-1,3-Dichloropropene	0.24	1.09	U	1.09	9.08	ug/m3
10061-01-5	cis-1,3-Dichloropropene	0.26	1.18	U	1.18	9.08	ug/m3
79-00-5	1,1,2-Trichloroethane	0.28	1.53	U	1.53	10.9	ug/m3

Report of Analysis

Client:	Woodard & Curran	Date Collected:	03/31/25
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	04/03/25
Client Sample ID:	SSSG-B10-3-03312025	SDG No.:	Q1725
Lab Sample ID:	Q1725-06	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042247.D	4		04/07/25 23:41	VL040725

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
124-48-1	Dibromochloromethane	0.26	2.22	U	2.22	17.0	ug/m3
106-93-4	1,2-Dibromoethane	0.29	2.23	U	2.23	3.07	ug/m3
127-18-4	Tetrachloroethene	2.50	16.9		0.41	0.81	ug/m3
108-90-7	Chlorobenzene	0.30	1.38	U	1.38	9.21	ug/m3
100-41-4	Ethyl Benzene	0.48	2.08	U	2.08	8.69	ug/m3
179601-23-1	m/p-Xylene	0.84	3.65	U	3.65	17.4	ug/m3
95-47-6	o-Xylene	0.48	2.08	U	2.08	8.69	ug/m3
100-42-5	Styrene	0.44	1.87	U	1.87	8.52	ug/m3
75-25-2	Bromoform	0.23	2.38	U	2.38	20.7	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	0.040	0.27	U	0.27	0.82	ug/m3
95-49-8	2-Chlorotoluene	0.44	2.28	U	2.28	10.4	ug/m3
108-67-8	1,3,5-Trimethylbenzene	0.44	2.16	U	2.16	9.83	ug/m3
95-63-6	1,2,4-Trimethylbenzene	0.31	1.52	U	1.52	9.83	ug/m3
541-73-1	1,3-Dichlorobenzene	0.32	1.92	U	1.92	12.0	ug/m3
106-46-7	1,4-Dichlorobenzene	0.21	1.26	U	1.26	12.0	ug/m3
95-50-1	1,2-Dichlorobenzene	0.30	1.80	U	1.80	12.0	ug/m3
120-82-1	1,2,4-Trichlorobenzene	0.34	2.52	U	2.52	14.8	ug/m3
87-68-3	Hexachloro-1,3-Butadiene	0.34	3.63	U	3.63	21.3	ug/m3
106-99-0	1,3-Butadiene	0.52	1.15	U	1.15	4.42	ug/m3
91-20-3	Naphthalene	0.30	1.57	U	1.57	2.10	ug/m3
622-96-8	4-Ethyltoluene	0.48	2.36	U	2.36	9.83	ug/m3
110-54-3	Hexane	2.00	7.05		1.55	7.05	ug/m3
107-05-1	Allyl Chloride	0.60	1.88	U	1.88	6.26	ug/m3
123-91-1	1,4-Dioxane	0.84	3.03	U	3.03	7.21	ug/m3
80-62-6	Methyl Methacrylate	0.34	1.39	U	1.39	8.19	ug/m3

SURROGATES

460-00-4	1-Bromo-4-Fluorobenzene	10.1		70 (65) - 130 (135)	101%	SPK: 10

INTERNAL STANDARDS

74-97-5	Bromochloromethane	195000	2.803
540-36-3	1,4-Difluorobenzene	496000	3.985
3114-55-4	Chlorobenzene-d5	437000	8.904

TENTATIVE IDENTIFIED COMPOUNDS

115-07-1	Propene	3.20	J	1.50	ppbv
64-17-5	Ethanol	3700	J	1.73	ppbv
67-63-0	Isopropyl Alcohol	470	J	1.90	ppbv

Report of Analysis

Client:	Woodard & Curran	Date Collected:	03/31/25
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	04/03/25
Client Sample ID:	SSSG-B10-3-03312025	SDG No.:	Q1725
Lab Sample ID:	Q1725-06	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042247.D	4		04/07/25 23:41	VL040725

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
007452-79-1	Butanoic acid, 2-methyl-, ethyl es	88.2		J		9.17	ppbv
005989-27-5	D-Limonene	98.9		J		12.1	ppbv
021944-83-2	(Z,Z)-3,6-Nonadienal	5.00		J		12.4	ppbv
	unknown12.720	4.20		J		12.7	ppbv
013450-73-2	11H-Dibenzo[b,e][1,4]diazepin-11-o	27.5		J		13.4	ppbv

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\VL040725\
 Data File : VL042247.D
 Acq On : 07 Apr 2025 23:41
 Operator : SY/MD
 Sample : Q1725-06 4X
 Misc : 400mL/MSVOA_L
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SSSG-B10-3-03312025

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 04/08/2025
 Supervised By :Mahesh Dadoda 04/09/2025

Quant Time: Apr 08 01:38:20 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M

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

QLast Update : Fri Mar 28 02:00:52 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.803	49	194534	10.000	ppbv	0.02
33) 1,4-Difluorobenzene	3.985	114	495845	10.000	ppbv	0.03
55) Chlorobenzene-d5	8.904	117	437126	10.000	ppbv	0.03
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.396	95	361726	10.077	ppbv	0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	= 100.800%	
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.505	85	3454	0.120	ppbv	95
4) Chloromethane	1.538	50	1900	0.162	ppbv	96
9) Propene	1.496	41	10786m	0.802	ppbv	
13) Ethanol	1.732	45	1184959	932.018	ppbv	87
15) Acetone	1.845	43	1081614	39.756	ppbv	98
17) tert-Butyl alcohol	2.056	59	10312m	0.304	ppbv	
19) Isopropyl Alcohol	1.897	45	1799475	117.225	ppbv #	32
20) Methylene Chloride	2.075	84	17220	1.699	ppbv	96
26) Hexane	2.845	57	13903	0.510	ppbv #	63
29) Chloroform	2.865	83	14300	0.358	ppbv	94
34) 2-Butanone	2.573	43	176547	4.910	ppbv	98
41) Tetrahydrofuran	3.088	42	5017m	0.242	ppbv	
52) Tetrachloroethene	8.250	164	12097	0.621	ppbv	88
53) Toluene	6.959	91	6983m	0.120	ppbv	

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

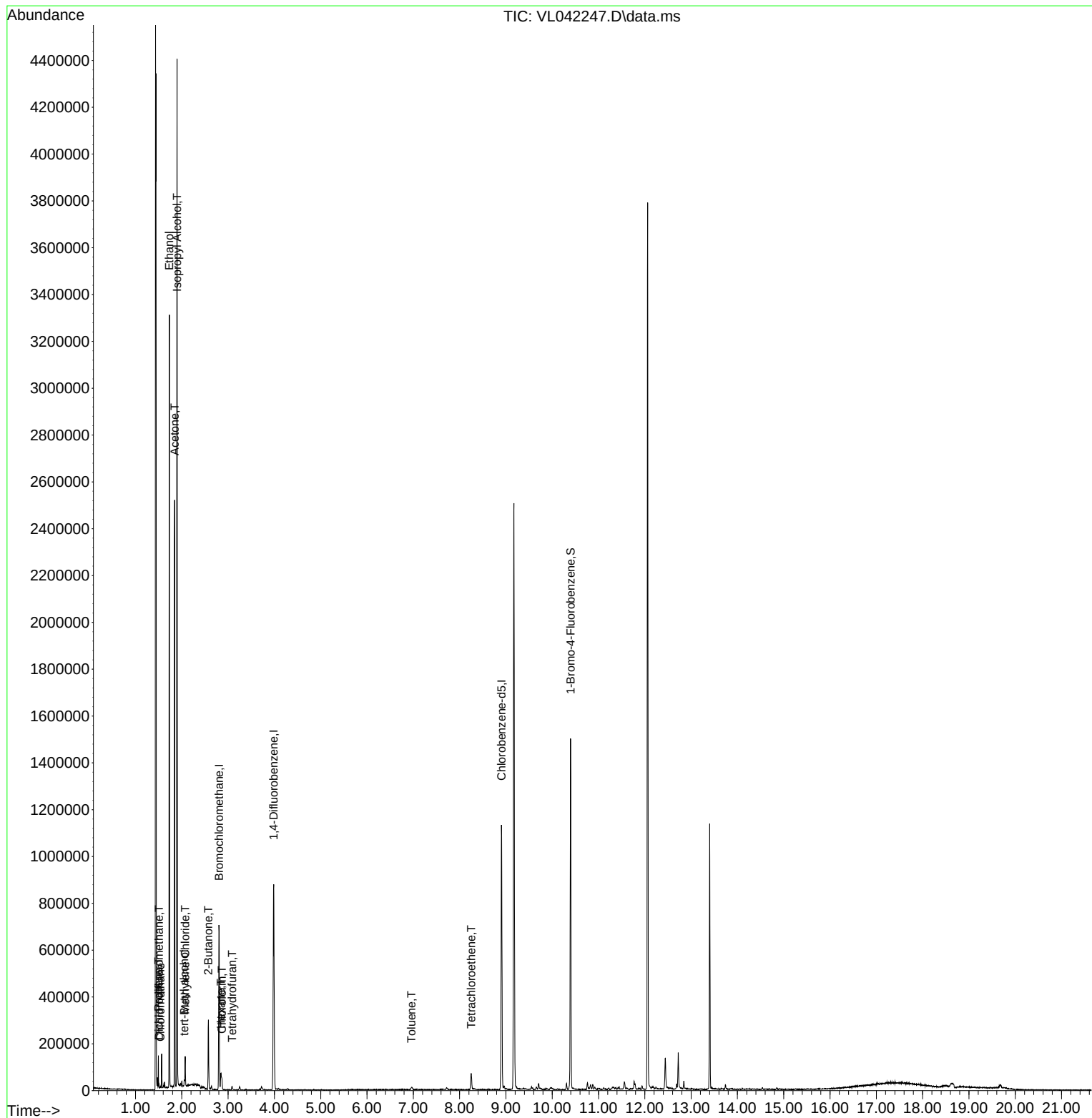
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040725\
Data File : VL042247.D
Acq On : 07 Apr 2025 23:41
Operator : SY/MD
Sample : Q1725-06 4X
Misc : 400mL/MSVOA_L
ALS Vial : 12 Sample Multiplier: 1

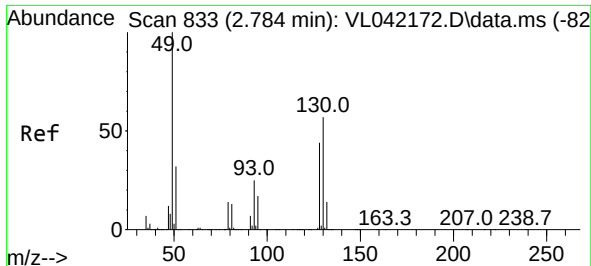
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B10-3-03312025

Quant Time: Apr 08 01:38:20 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Fri Mar 28 02:00:52 2025
Response via : Initial Calibration

Manual Integrations
APPROVED

Reviewed By : Semsettin Yesilyurt 04/08/2025
Supervised By : Mahesh Dadoda 04/09/2025





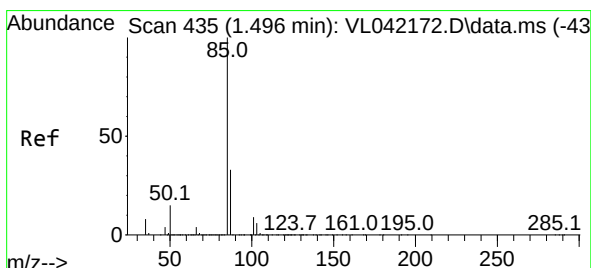
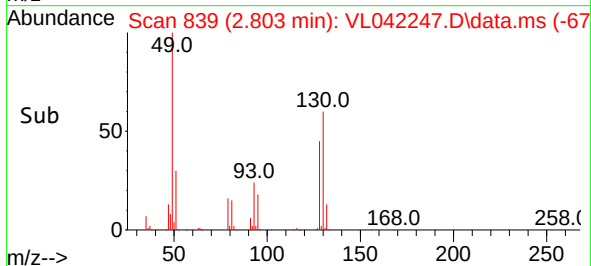
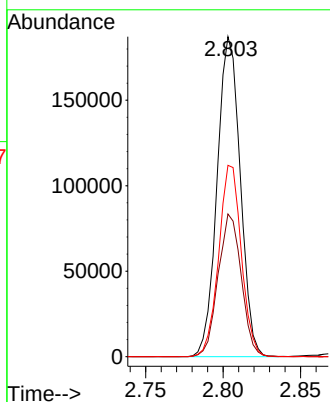
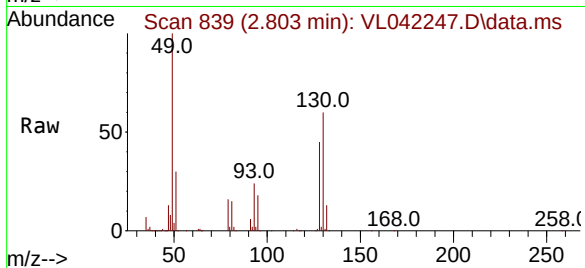
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.803 min Scan# 81
Delta R.T. 0.019 min
Lab File: VL042247.D
Acq: 07 Apr 2025 23:41

Instrument :
MSVOA_L
ClientSampleId :
SSSG-B10-3-03312025

Tgt Ion: 49 Resp: 194534
Ion Ratio Lower Upper
49 100
128 44.5 22.9 68.5
130 58.5 28.8 86.4

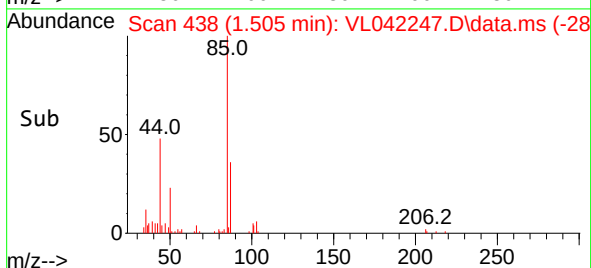
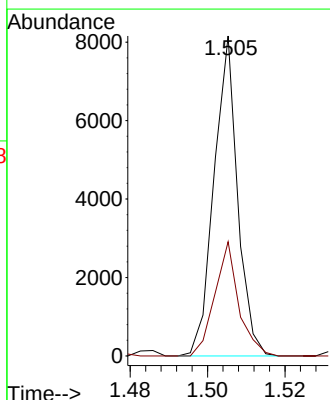
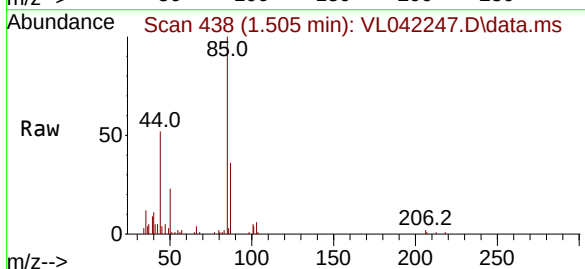
Manual Integrations
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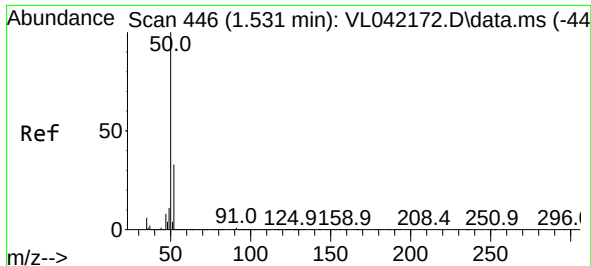
Reviewed By :Semsettin Yesilyurt 04/08/2025
Supervised By :Mahesh Dadoda 04/09/2025



#2
Dichlorodifluoromethane
Concen: 0.120 ppbv
RT: 1.505 min Scan# 438
Delta R.T. 0.010 min
Lab File: VL042247.D
Acq: 07 Apr 2025 23:41

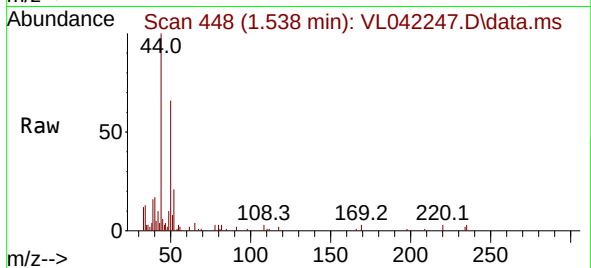
Tgt Ion: 85 Resp: 3454
Ion Ratio Lower Upper
85 100
87 35.7 26.1 39.1





#4
Chloromethane
Concen: 0.162 ppbv
RT: 1.538 min Scan# 446
Delta R.T. 0.006 min
Lab File: VL042247.D
Acq: 07 Apr 2025 23:41

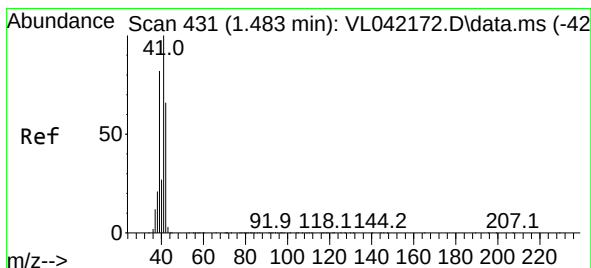
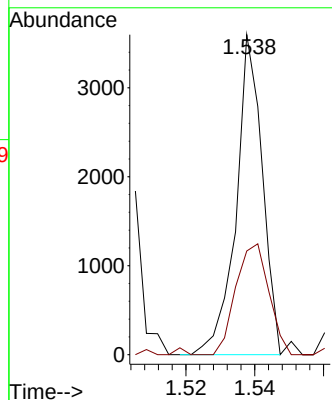
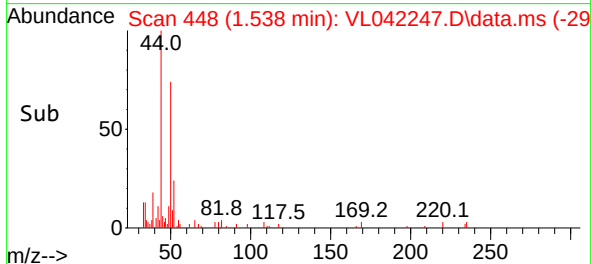
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B10-3-03312025



Tgt Ion: 50 Resp: 1900
Ion Ratio Lower Upper
50 100
52 30.3 26.1 39.1

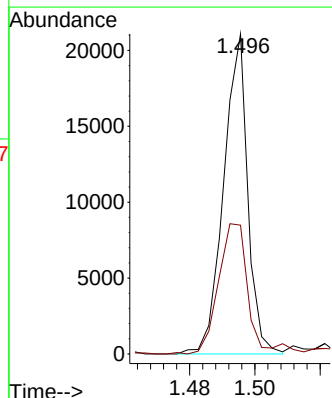
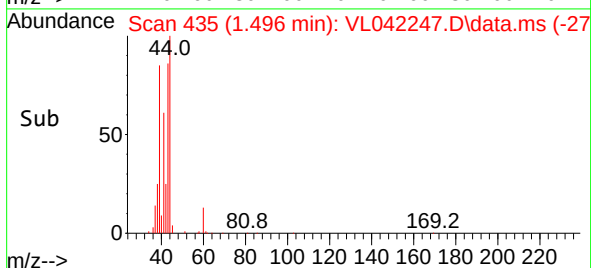
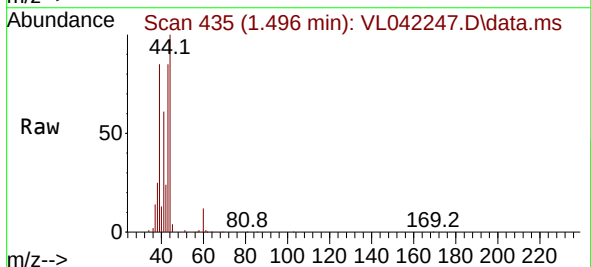
Manual Integrations
APPROVED

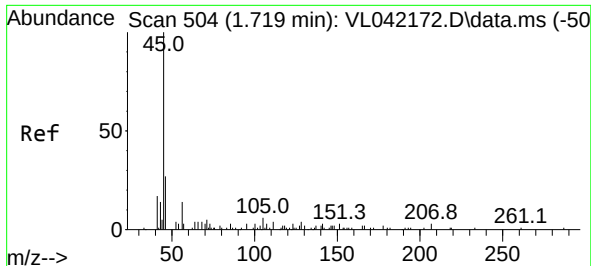
Reviewed By :Semsettin Yesilyurt 04/08/2025
Supervised By :Mahesh Dadoda 04/09/2025



#9
Propene
Concen: 0.802 ppbv m
RT: 1.496 min Scan# 435
Delta R.T. 0.013 min
Lab File: VL042247.D
Acq: 07 Apr 2025 23:41

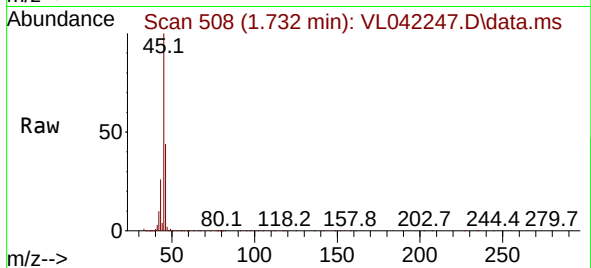
Tgt Ion: 41 Resp: 10786
Ion Ratio Lower Upper
41 100
42 1225.1 55.4 83.2#





#13
Ethanol
Concen: 932.018 ppbv
RT: 1.732 min Scan# 508
Delta R.T. 0.013 min
Lab File: VL042247.D
Acq: 07 Apr 2025 23:41

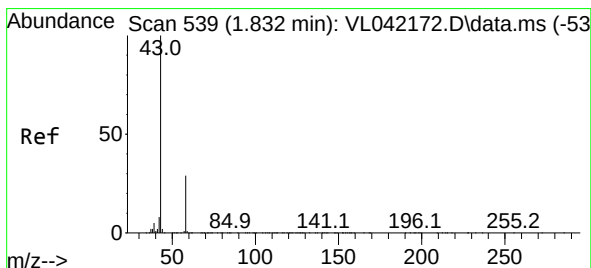
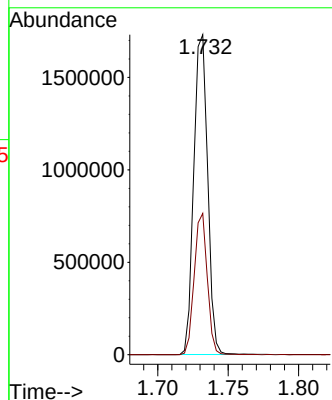
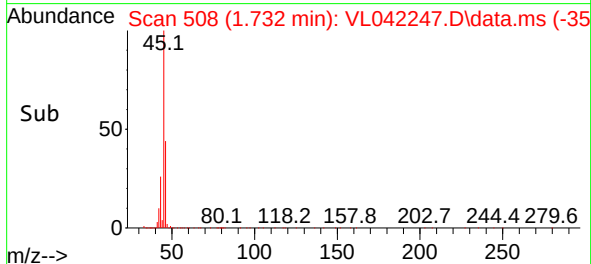
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B10-3-03312025



Tgt Ion: 45 Resp: 1184959
Ion Ratio Lower Upper
45 100
46 41.7 20.2 80.8

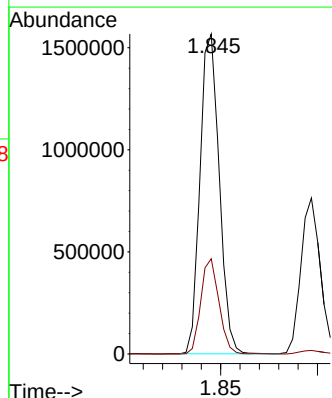
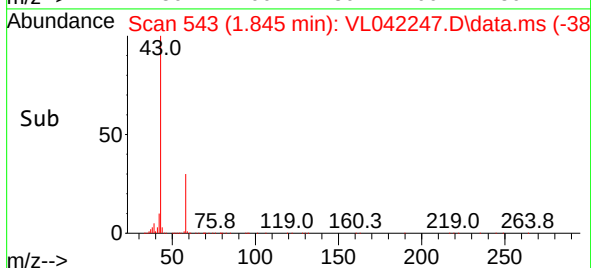
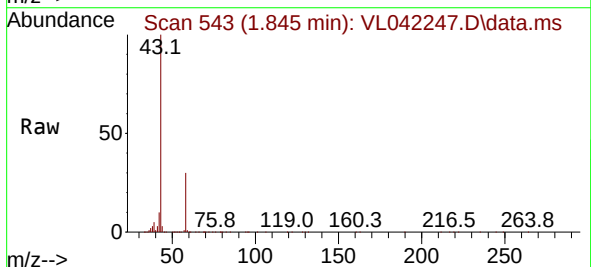
Manual Integrations
APPROVED

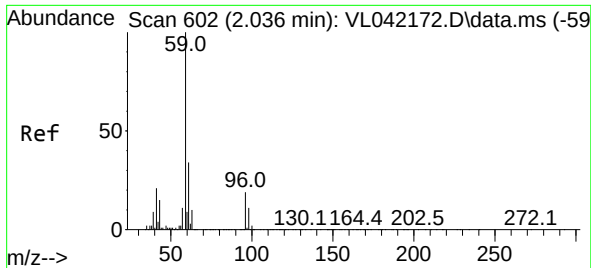
Reviewed By :Semsettin Yesilyurt 04/08/2025
Supervised By :Mahesh Dadoda 04/09/2025



#15
Acetone
Concen: 39.756 ppbv
RT: 1.845 min Scan# 543
Delta R.T. 0.013 min
Lab File: VL042247.D
Acq: 07 Apr 2025 23:41

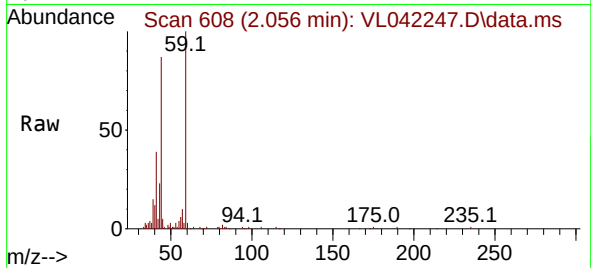
Tgt Ion: 43 Resp: 1081614
Ion Ratio Lower Upper
43 100
58 28.1 23.2 34.8





#17
tert-Butyl alcohol
Concen: 0.304 ppbv m
RT: 2.056 min Scan# 602
Delta R.T. 0.019 min
Lab File: VL042247.D
Acq: 07 Apr 2025 23:41

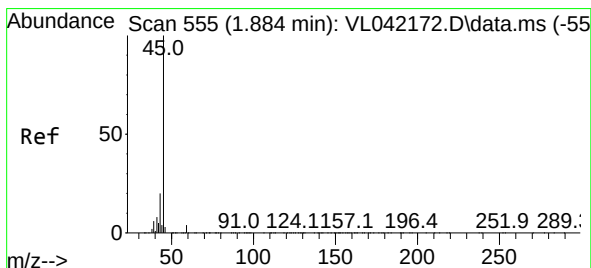
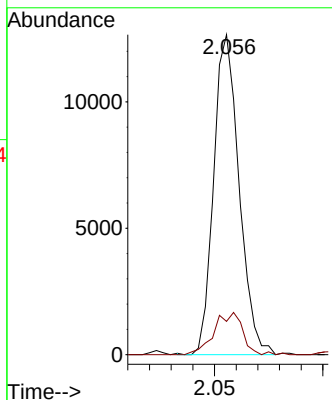
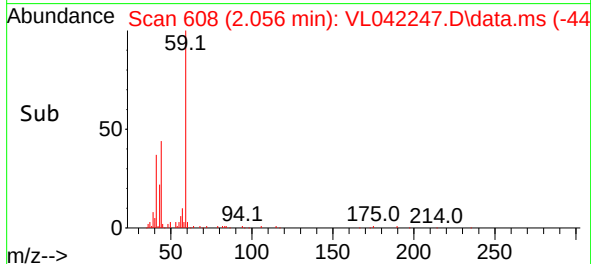
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B10-3-03312025



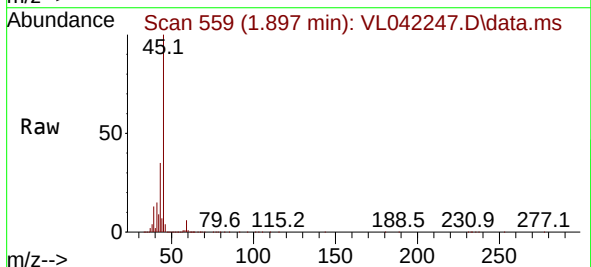
Tgt Ion: 59 Resp: 10312
Ion Ratio Lower Upper
59 100
57 79.1 8.9 13.3

Manual Integrations
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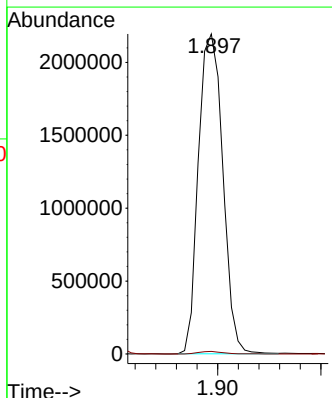
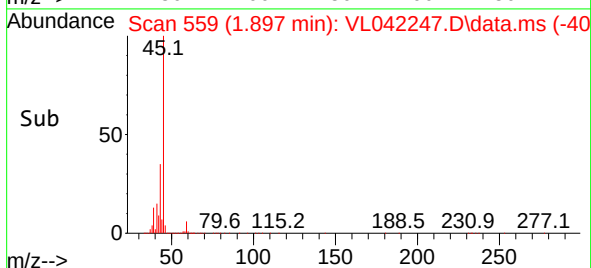
Reviewed By :Semsettin Yesilyurt 04/08/2025
Supervised By :Mahesh Dadoda 04/09/2025

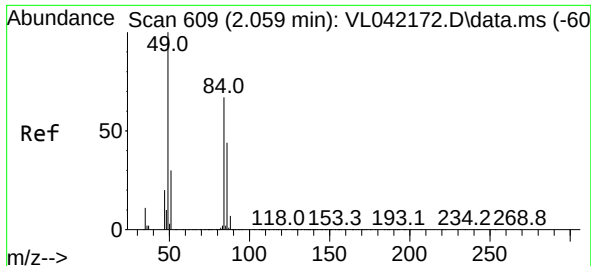


#19
Isopropyl Alcohol
Concen: 117.225 ppbv
RT: 1.897 min Scan# 559
Delta R.T. 0.013 min
Lab File: VL042247.D
Acq: 07 Apr 2025 23:41



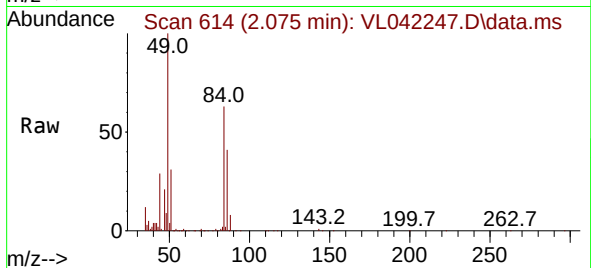
Tgt Ion: 45 Resp: 1799475
Ion Ratio Lower Upper
45 100
58 0.9 36.9 55.3





#20
Methylene Chloride
Concen: 1.699 ppbv
RT: 2.075 min Scan# 614
Delta R.T. 0.016 min
Lab File: VL042247.D
Acq: 07 Apr 2025 23:41

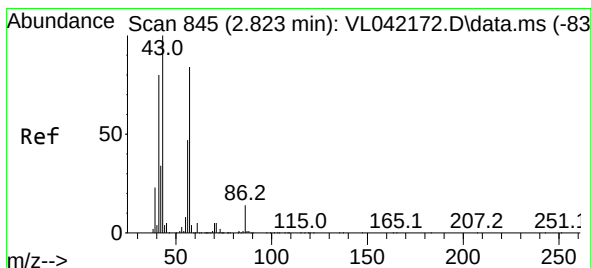
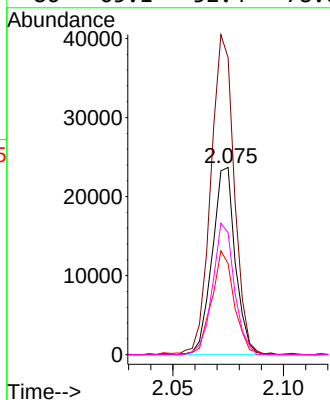
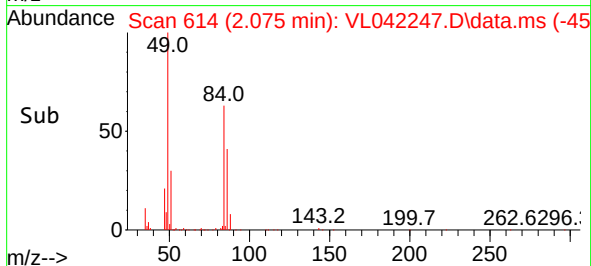
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B10-3-03312025



Tgt Ion: 84 Resp: 17220
Ion Ratio Lower Upper
84 100
49 158.6 120.2 180.4
51 48.5 37.4 56.0
86 65.1 52.4 78.6

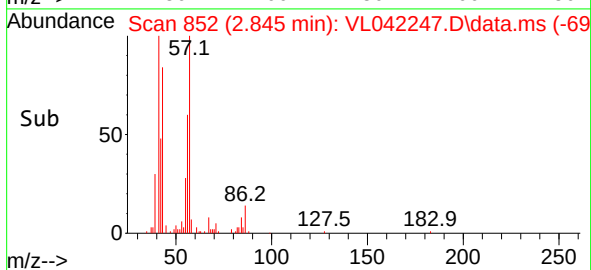
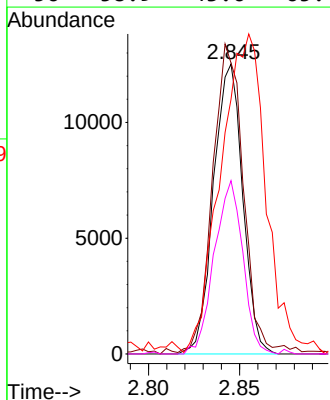
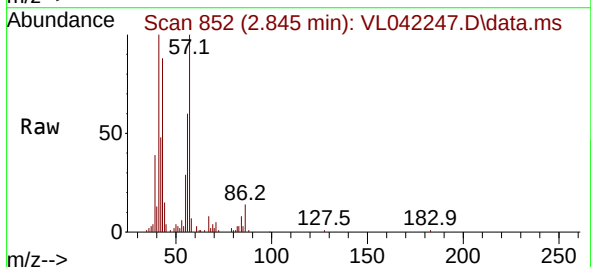
Manual Integrations
APPROVED

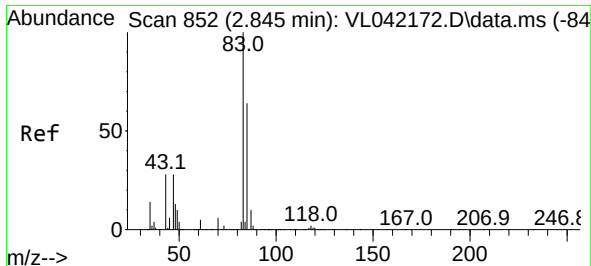
Reviewed By :Semsettin Yesilyurt 04/08/2025
Supervised By :Mahesh Dadoda 04/09/2025



#26
Hexane
Concen: 0.510 ppbv
RT: 2.845 min Scan# 852
Delta R.T. 0.022 min
Lab File: VL042247.D
Acq: 07 Apr 2025 23:41

Tgt Ion: 57 Resp: 13903
Ion Ratio Lower Upper
57 100
41 116.7 76.6 114.8#
43 171.7 207.8 311.8#
56 58.9 43.6 65.4





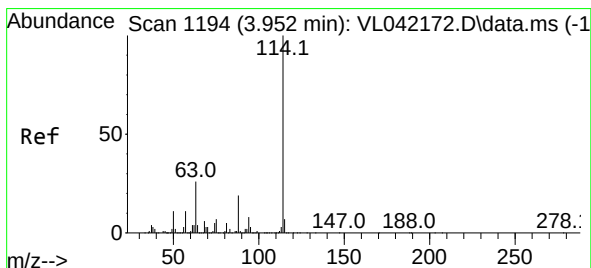
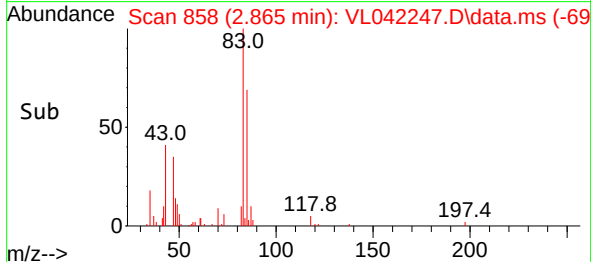
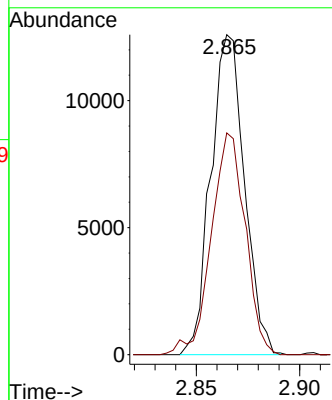
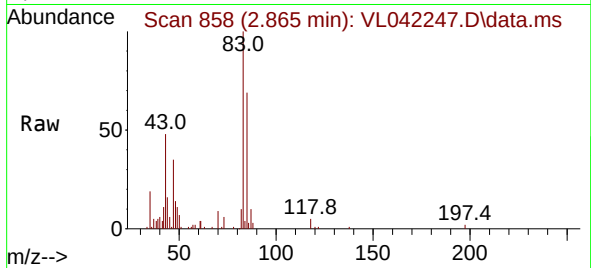
#29
Chloroform
Concen: 0.358 ppbv
RT: 2.865 min Scan# 81
Delta R.T. 0.019 min
Lab File: VL042247.D
Acq: 07 Apr 2025 23:41

Instrument :
MSVOA_L
ClientSampleId :
SSSG-B10-3-03312025

Tgt Ion: 83 Resp: 14300
Ion Ratio Lower Upper
83 100
85 69.3 51.4 77.2

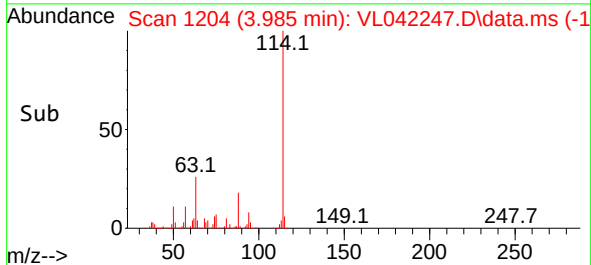
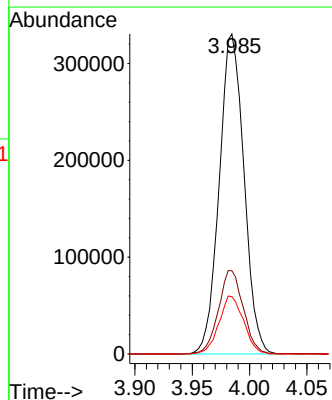
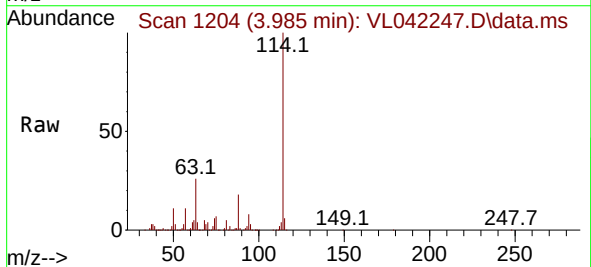
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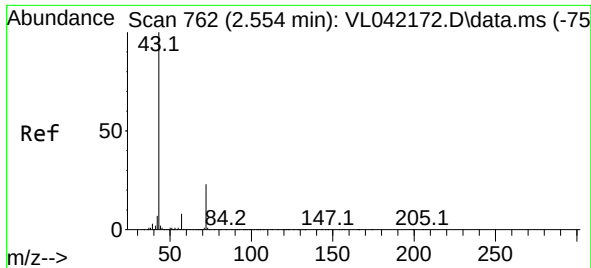
Reviewed By :Semsettin Yesilyurt 04/08/2025
Supervised By :Mahesh Dadoda 04/09/2025



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.985 min Scan# 1204
Delta R.T. 0.032 min
Lab File: VL042247.D
Acq: 07 Apr 2025 23:41

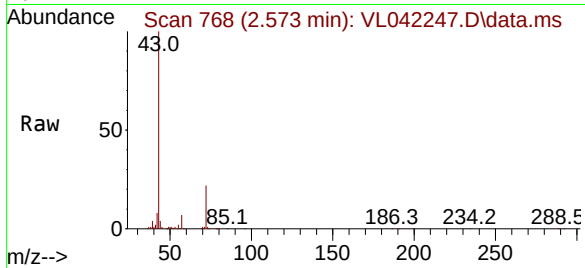
Tgt Ion:114 Resp: 495845
Ion Ratio Lower Upper
114 100
63 26.2 20.7 31.1
88 18.0 15.0 22.4





#34
2-Butanone
Concen: 4.910 ppbv
RT: 2.573 min Scan# 701
Delta R.T. 0.019 min
Lab File: VL042247.D
Acq: 07 Apr 2025 23:41

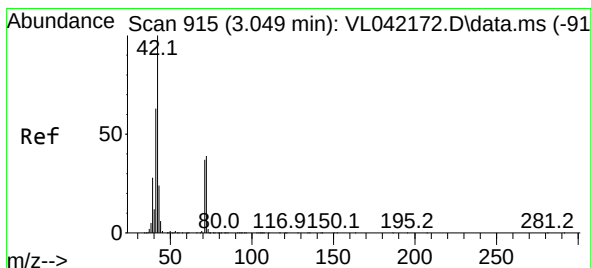
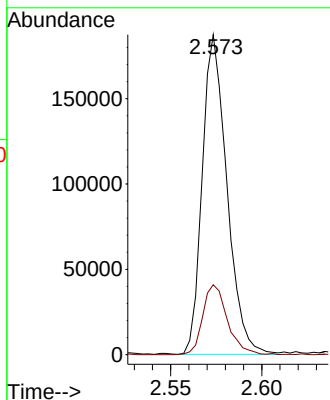
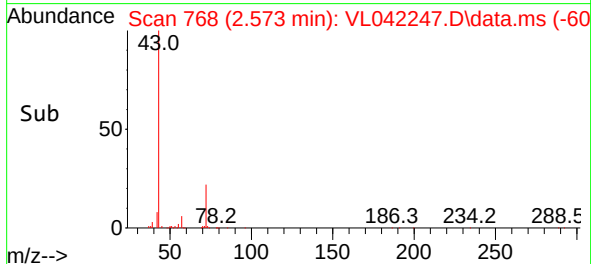
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B10-3-03312025



Tgt Ion: 43 Resp: 17654
Ion Ratio Lower Upper
43 100
72 22.0 18.2 27.2

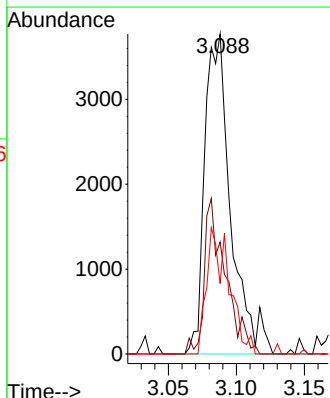
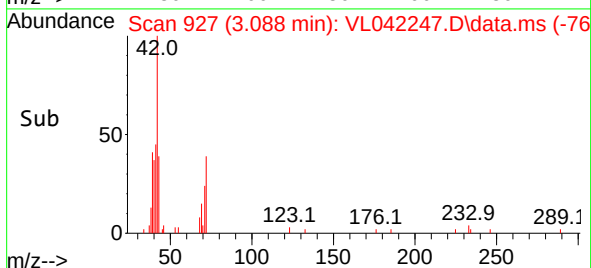
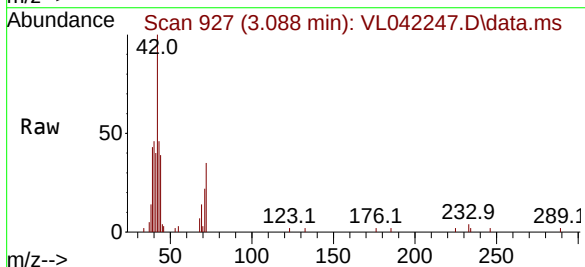
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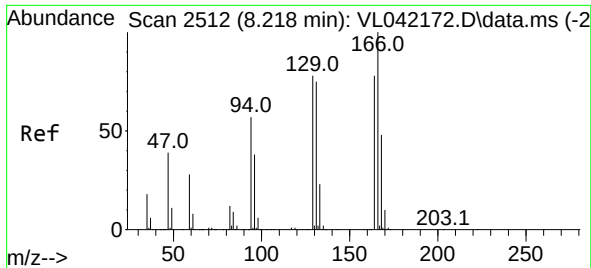
Reviewed By :Semsettin Yesilyurt 04/08/2025
Supervised By :Mahesh Dadoda 04/09/2025



#41
Tetrahydrofuran
Concen: 0.242 ppbv m
RT: 3.088 min Scan# 927
Delta R.T. 0.039 min
Lab File: VL042247.D
Acq: 07 Apr 2025 23:41

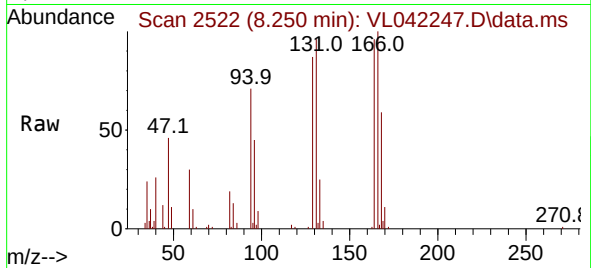
Tgt Ion: 42 Resp: 5017
Ion Ratio Lower Upper
42 100
72 39.3 31.4 47.0
71 34.0 30.2 45.4





#52
Tetrachloroethene
Concen: 0.621 ppbv
RT: 8.250 min Scan# 2122
Delta R.T. 0.032 min
Lab File: VL042247.D
Acq: 07 Apr 2025 23:41

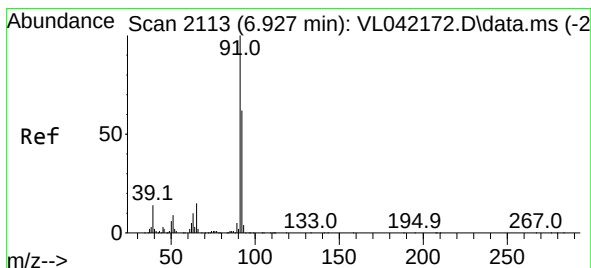
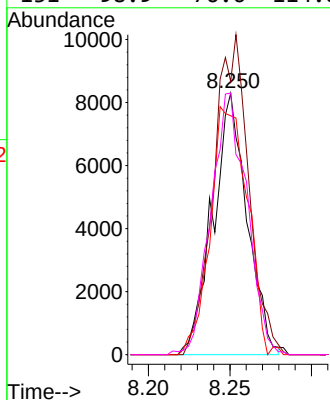
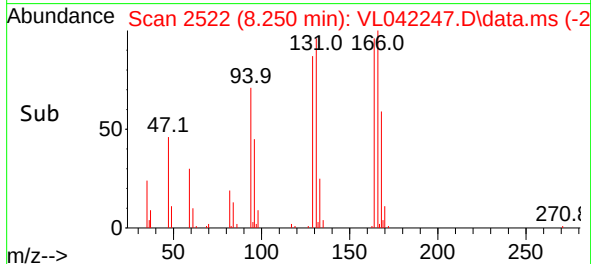
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B10-3-03312025



Tgt Ion:164 Resp: 1209
Ion Ratio Lower Upper
164 100
166 104.5 102.5 153.7
129 91.4 79.8 119.8
131 98.9 76.6 114.8

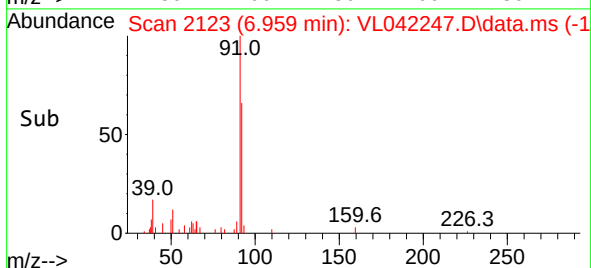
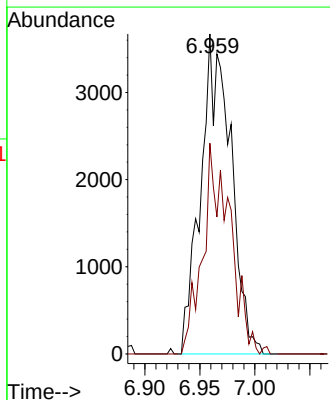
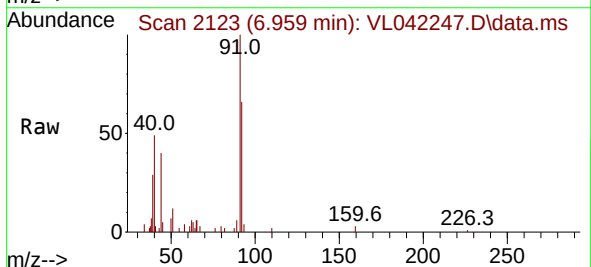
Manual Integrations
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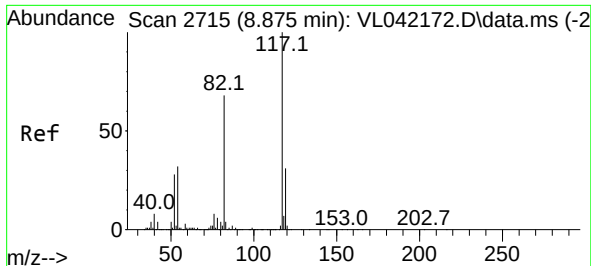
Reviewed By :Semsettin Yesilyurt 04/08/2025
Supervised By :Mahesh Dadoda 04/09/2025



#53
Toluene
Concen: 0.120 ppbv m
RT: 6.959 min Scan# 2123
Delta R.T. 0.032 min
Lab File: VL042247.D
Acq: 07 Apr 2025 23:41

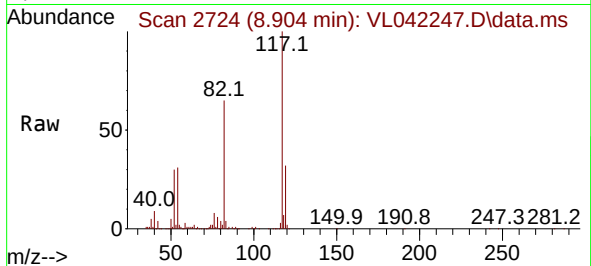
Tgt Ion: 91 Resp: 6983
Ion Ratio Lower Upper
91 100
92 0.0 48.4 72.6#





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.904 min Scan# 21
Delta R.T. 0.029 min
Lab File: VL042247.D
Acq: 07 Apr 2025 23:41

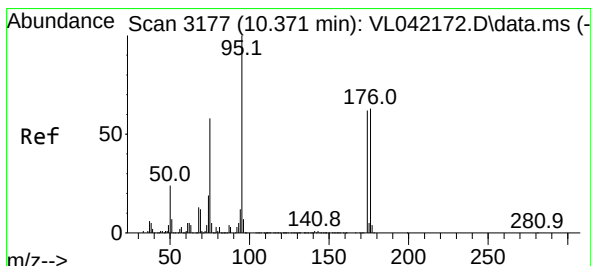
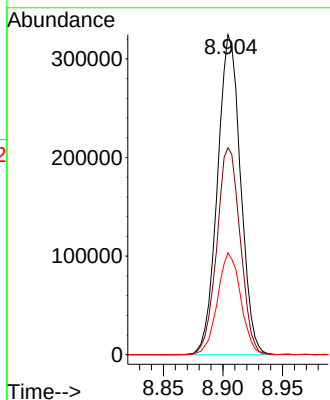
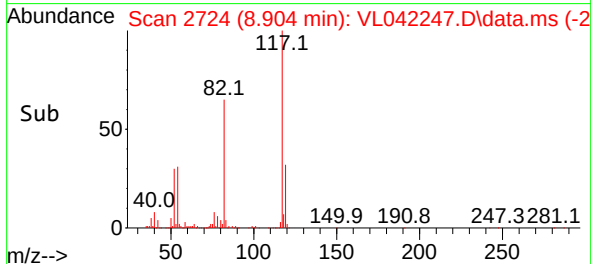
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B10-3-03312025



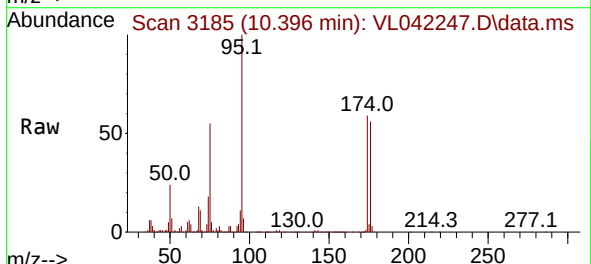
Tgt Ion: 117 Resp: 437120
Ion Ratio Lower Upper
117 100
82 65.8 55.8 83.6
119 32.2 25.5 38.3

Manual Integrations
APPROVED

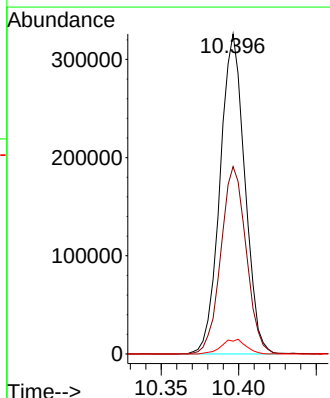
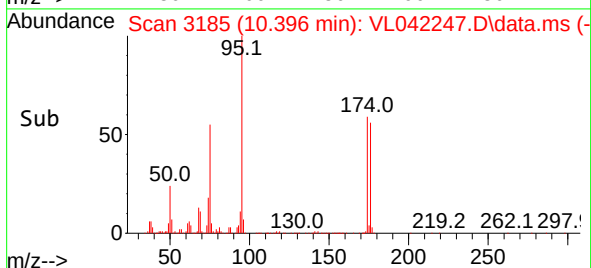
Reviewed By :Semsettin Yesilyurt 04/08/2025
Supervised By :Mahesh Dadoda 04/09/2025



#68
1-Bromo-4-Fluorobenzene
Concen: 10.077 ppbv
RT: 10.396 min Scan# 3185
Delta R.T. 0.026 min
Lab File: VL042247.D
Acq: 07 Apr 2025 23:41



Tgt Ion: 95 Resp: 361726
Ion Ratio Lower Upper
95 100
174 59.9 50.6 76.0
175 4.5 3.8 5.6



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040725\
 Data File : VL042247.D
 Acq On : 07 Apr 2025 23:41
 Operator : SY/MD
 Sample : Q1725-06 4X
 Misc : 400mL/MSVOA_L
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SSSG-B10-3-03312025

Integration Parameters: RTEINT.P

Integrator: RTE

Smoothing : ON

Filtering: 5

Sampling : 3

Min Area: 3 % of largest Peak

Start Thrs: 0.001

Max Peaks: 100

Stop Thrs : 0

Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >

Peak separation: 0

Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M

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

Signal : TIC: VL042247.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.434	412	416	417	rBV	4572470	2968303	77.19%	10.875%
2	1.441	417	418	423	rVB2	4313247	2274854	59.16%	8.335%
3	1.496	431	435	442	rVB2	137903	71295	1.85%	0.261%
4	1.567	452	457	461	rBV	145674	88784	2.31%	0.325%
5	1.732	503	508	518	rBV	3297358	2194029	57.06%	8.039%
6	1.845	538	543	552	rBV	2505629	1701485	44.25%	6.234%
7	1.897	554	559	572	rVB	4384027	3299416	85.80%	12.089%
8	2.072	609	613	621	rVB	126474	96500	2.51%	0.354%
9	2.573	761	768	779	rBV	298033	286473	7.45%	1.050%
10	2.803	831	839	846	rBV	703471	737338	19.17%	2.701%
11	2.845	846	852	857	rBV3	58253	82458	2.14%	0.302%
12	3.985	1189	1204	1217	rBV	877806	1336388	34.75%	4.896%
13	8.247	2512	2521	2532	rBV3	69195	115249	3.00%	0.422%
14	8.904	2711	2724	2735	rBV	1130973	1555835	40.46%	5.700%
15	9.173	2794	2807	2831	rBV	2502936	3429931	89.20%	12.567%
16	10.396	3171	3185	3196	rBV	1496947	1730228	45.00%	6.339%
17	11.558	3534	3544	3553	rBV5	30551	51520	1.34%	0.189%
18	12.060	3686	3699	3722	rBV	3787176	3845359	100.00%	14.089%
19	12.442	3806	3817	3827	rBV7	132226	193331	5.03%	0.708%
20	12.720	3897	3903	3918	rVB2	150377	163894	4.26%	0.600%
21	13.400	4104	4113	4122	rBV	1131169	1071024	27.85%	3.924%

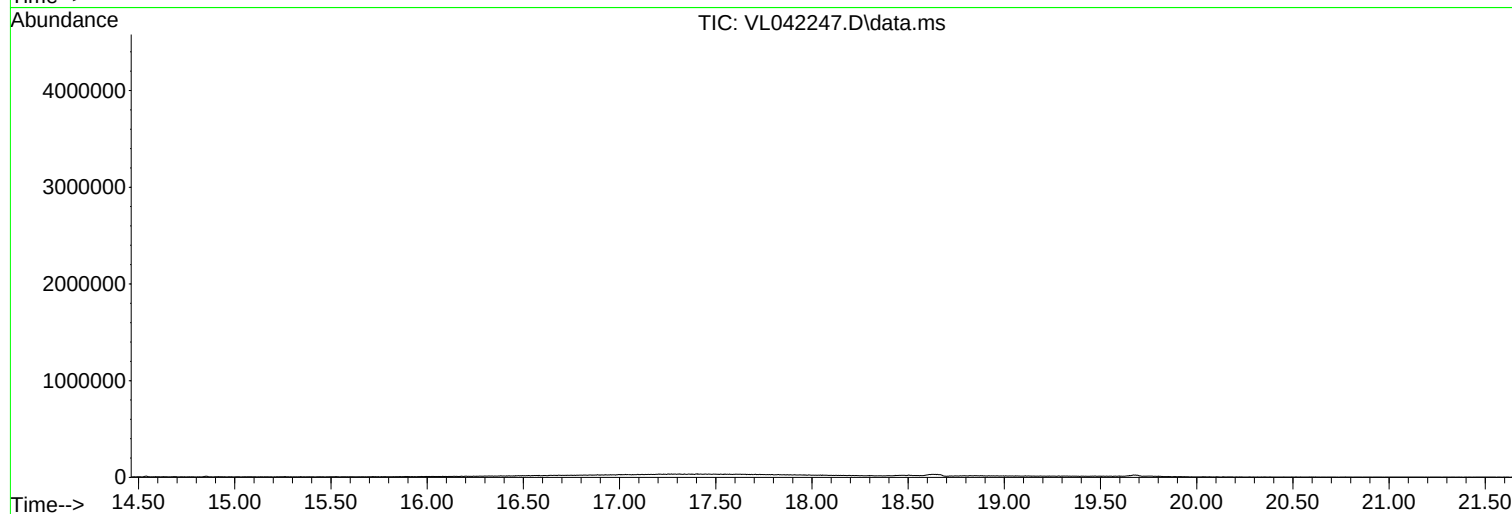
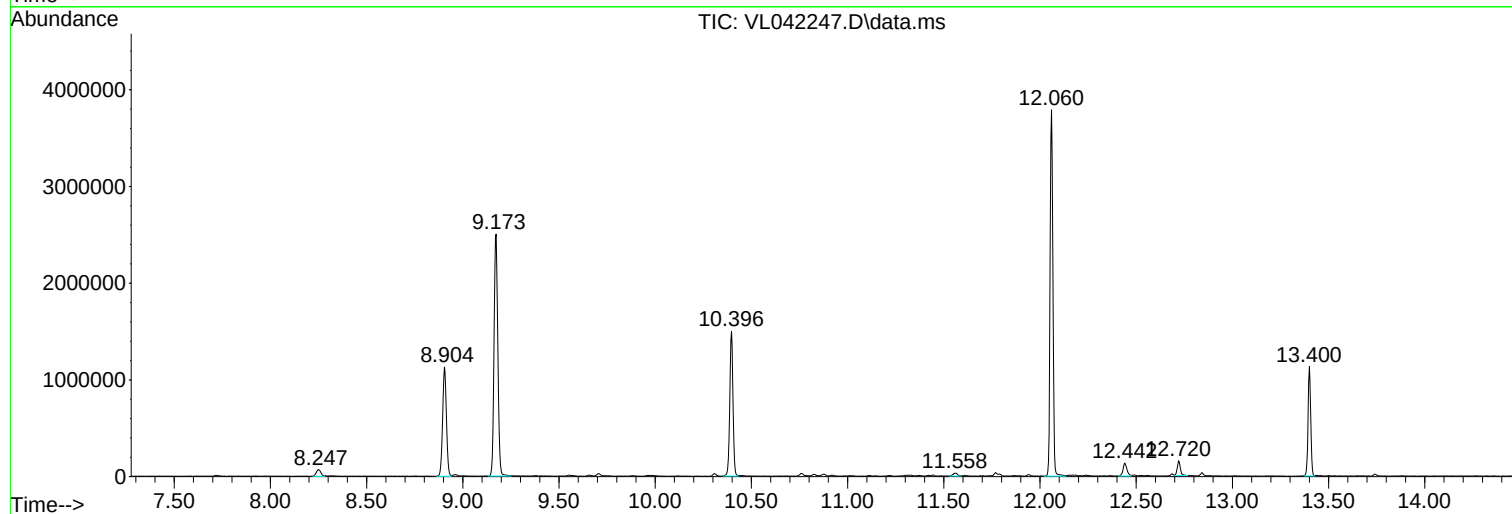
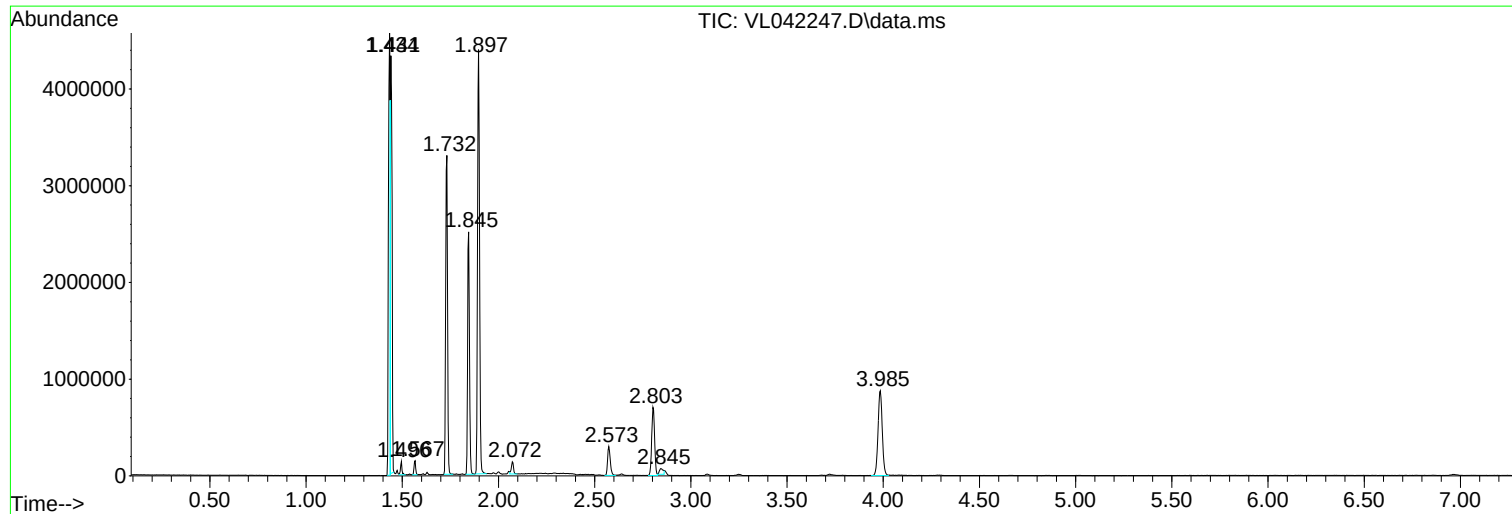
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Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040725\
Data File : VL042247.D
Acq On : 07 Apr 2025 23:41
Operator : SY/MD
Sample : Q1725-06 4X
Misc : 400mL/MSVOA_L
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
SSSG-B10-3-03312025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040725\
Data File : VL042247.D
Acq On : 07 Apr 2025 23:41
Operator : SY/MD
Sample : Q1725-06 4X
Misc : 400mL/MSVOA_L
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
SSSG-B10-3-03312025

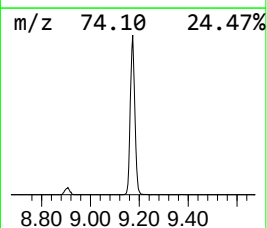
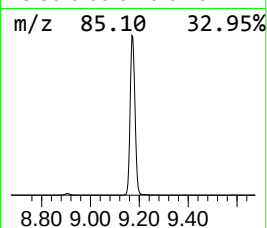
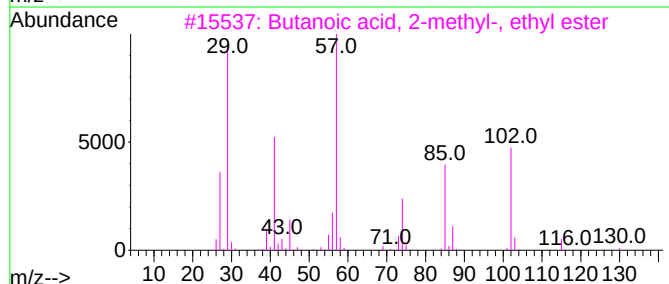
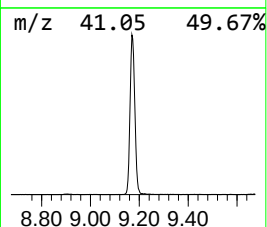
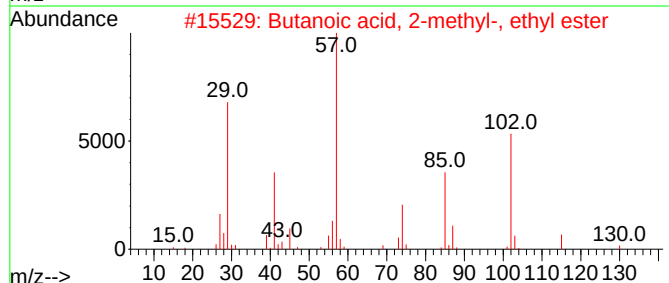
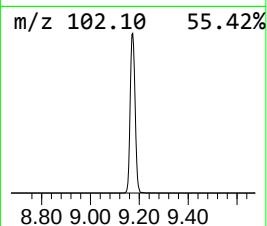
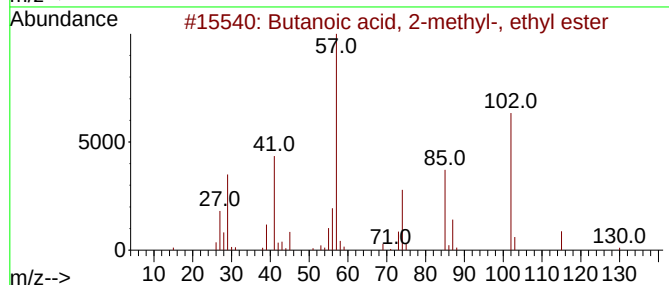
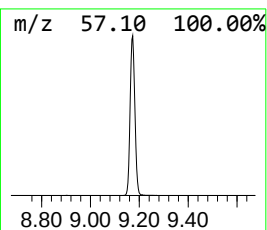
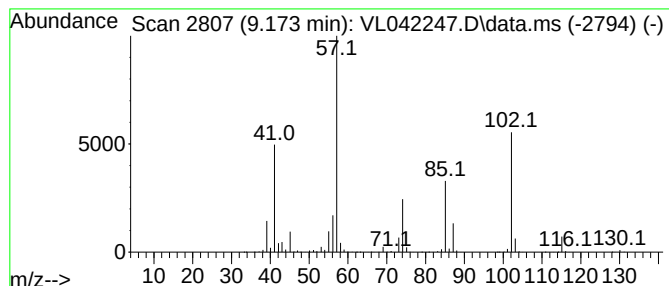
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

Peak Number 3 Butanoic acid, 2-methyl-, e... Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.173	22.05 ppbv	3429930	Chlorobenzene-d5	8.904

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Butanoic acid, 2-methyl-, ethyl ...	130	C7H14O2	007452-79-1	93
2			Butanoic acid, 2-methyl-, ethyl ...	130	C7H14O2	007452-79-1	91
3			Butanoic acid, 2-methyl-, ethyl ...	130	C7H14O2	007452-79-1	90
4			Butanoic acid, 2-methyl-, ethyl ...	130	C7H14O2	007452-79-1	83
5			Butanoic acid, 2-methyl-, ethyl ...	130	C7H14O2	007452-79-1	74



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040725\
Data File : VL042247.D
Acq On : 07 Apr 2025 23:41
Operator : SY/MD
Sample : Q1725-06 4X
Misc : 400mL/MSVOA_L
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
SSSG-B10-3-03312025

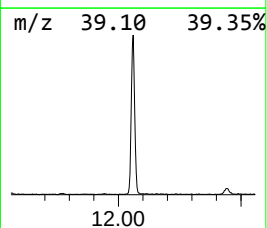
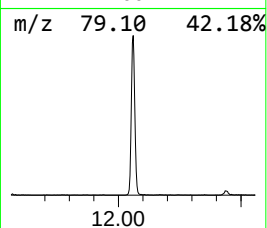
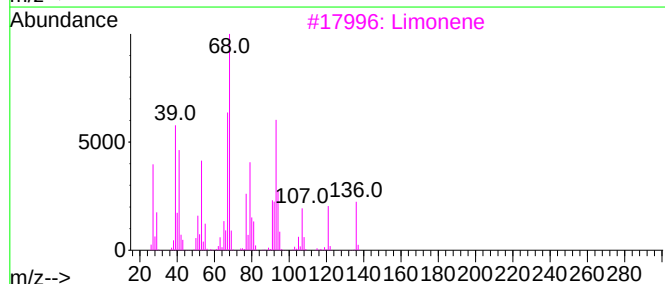
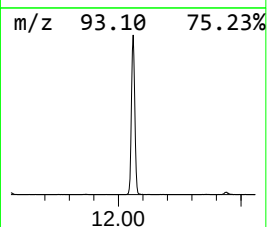
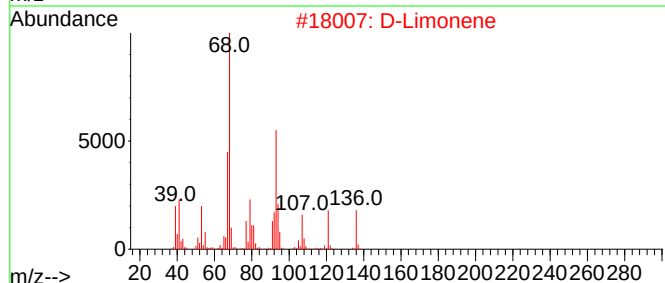
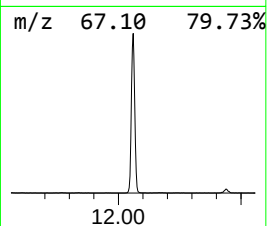
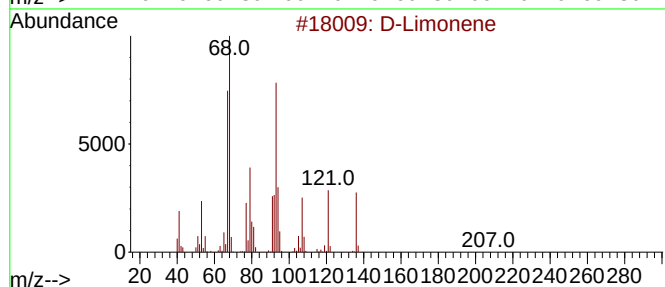
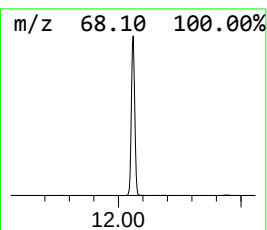
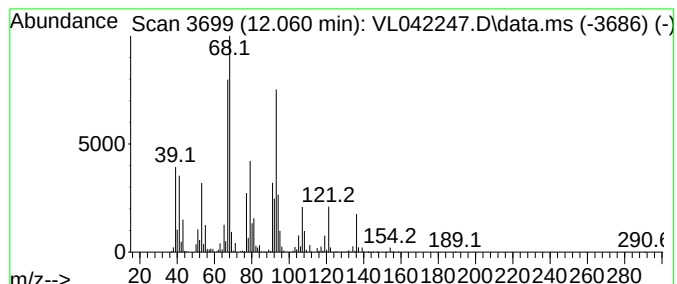
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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

Peak Number 4 D-Limonene Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.060	24.72 ppbv	3845360	Chlorobenzene-d5	8.904

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			D-Limonene	136	C10H16	005989-27-5	98
2			D-Limonene	136	C10H16	005989-27-5	94
3			Limonene	136	C10H16	000138-86-3	94
4			D-Limonene	136	C10H16	005989-27-5	93
5			D-Limonene	136	C10H16	005989-27-5	93



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040725\
Data File : VL042247.D
Acq On : 07 Apr 2025 23:41
Operator : SY/MD
Sample : Q1725-06 4X
Misc : 400mL/MSVOA_L
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
SSSG-B10-3-03312025

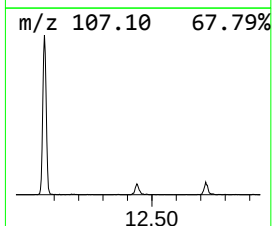
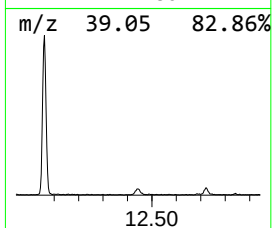
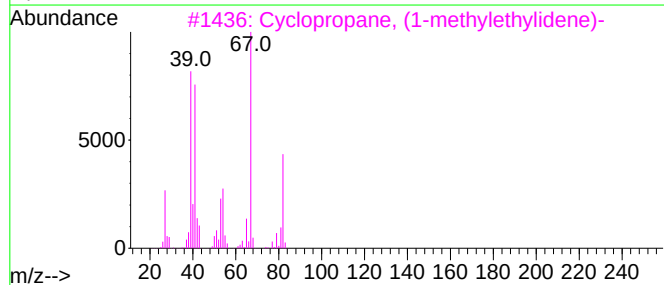
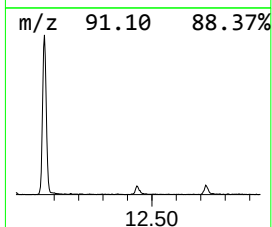
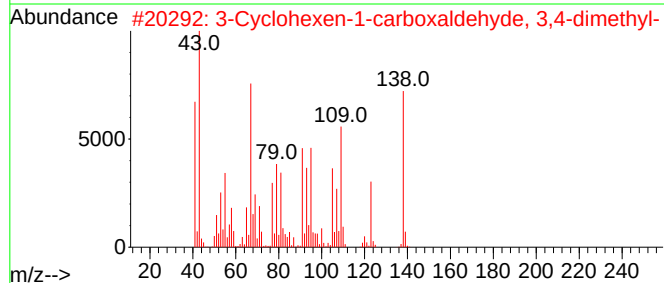
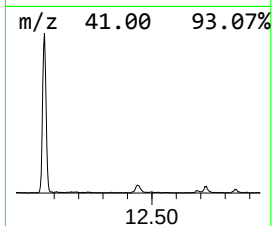
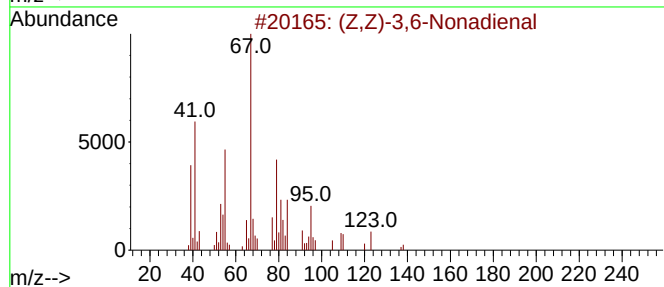
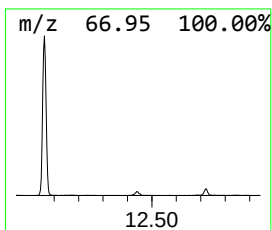
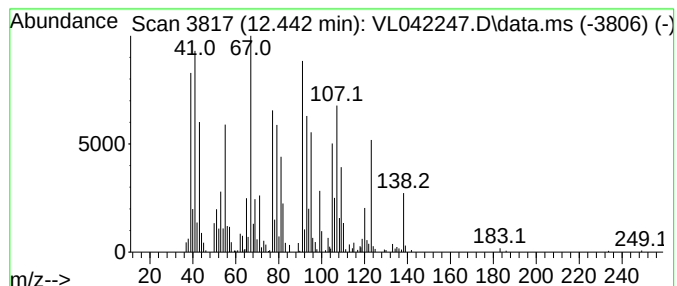
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

Peak Number 5 (Z,Z)-3,6-Nonadienal Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.442	1.24 ppbv	193331	Chlorobenzene-d5	8.904

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			(Z,Z)-3,6-Nonadienal	138	C9H14O	021944-83-2	80
2			3-Cyclohexen-1-carboxaldehyde, 3...	138	C9H14O	1000131-99-4	55
3			Cyclopropane, (1-methylethylidene)-	82	C6H10	004741-86-0	53
4			2,4-Dimethylcyclohex-3-ene-1-car...	138	C9H14O	068039-49-6	49
5			4-Methyl-2-pentyne	82	C6H10	021020-27-9	49



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040725\
Data File : VL042247.D
Acq On : 07 Apr 2025 23:41
Operator : SY/MD
Sample : Q1725-06 4X
Misc : 400mL/MSVOA_L
ALS Vial : 12 Sample Multiplier: 1

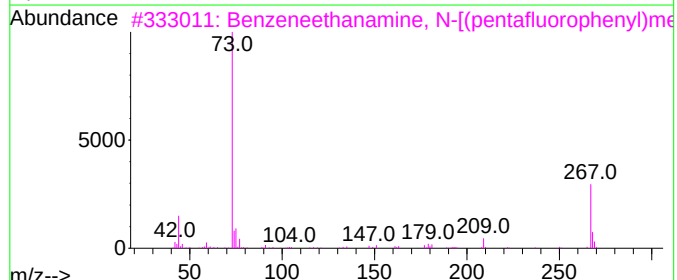
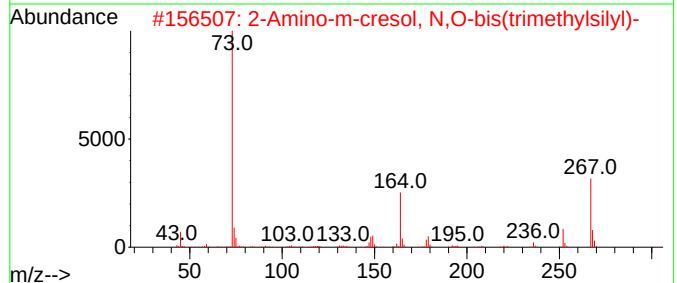
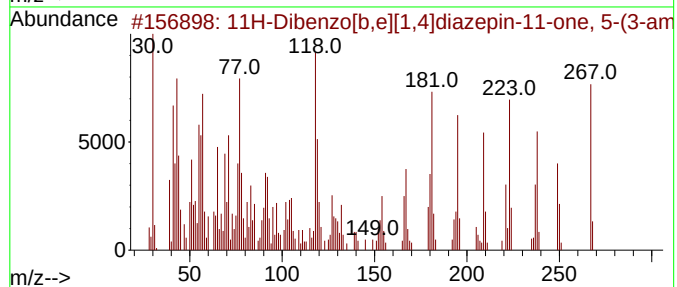
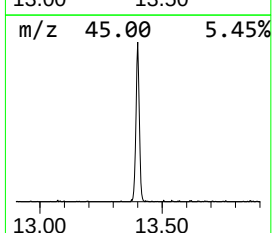
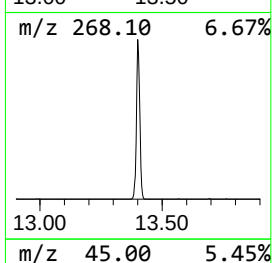
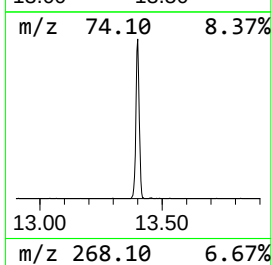
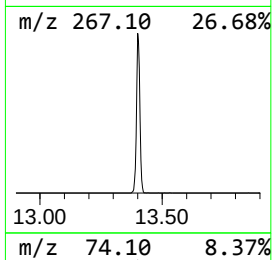
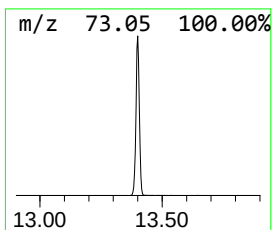
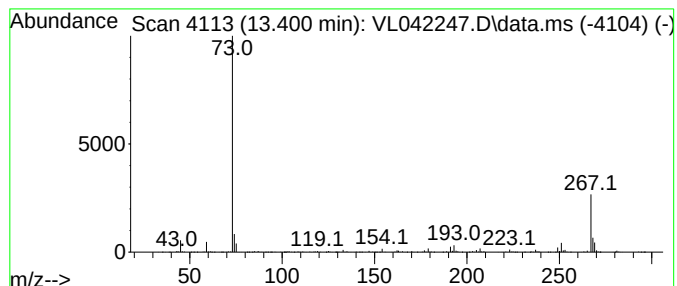
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B10-3-03312025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

Peak Number 7 11H-Dibenzo[b,e][1,4]diazep... Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD			R.T.
13.400	6.88 ppbv	1071020	Chlorobenzene-d5			8.904
Hit# of 5	Tentative ID		MW	MolForm	CAS#	Qual
1	11H-Dibenzo[b,e][1,4]diazepin-11...		267	C16H17N3O	013450-73-2	94
2	2-Amino-m-cresol, N,O-bis(trimet...		267	C13H25NOSi2	1000449-77-1	59
3	Benzeneethanamine, N-[(pentaflu...		475	C21H26F5NO2Si2	055429-85-1	50
4	2-[(Trimethylsilyl)oxy]-2-{4-[(t...		297	C14H27NO2Si2	1000473-27-9	40
5	Acridone, TMS derivative		267	C16H17NOSi	1000478-16-0	40



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040725\
Data File : VL042247.D
Acq On : 07 Apr 2025 23:41
Operator : SY/MD
Sample : Q1725-06 4X
Misc : 400mL/MSVOA_L
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
SSSG-B10-3-03312025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	--Internal Standard--			
					#	RT	Resp	Conc
Butanoic acid, ...	9.173	22.1	ppbv	3429930	3	8.904	1555840	10.0
D-Limonene	12.060	24.7	ppbv	3845360	3	8.904	1555840	10.0
(Z,Z)-3,6-Nonad...	12.442	1.2	ppbv	193331	3	8.904	1555840	10.0
unknown12.720	12.720	1.1	ppbv	163894	3	8.904	1555840	10.0
11H-Dibenzo[b,e...	13.400	6.9	ppbv	1071020	3	8.904	1555840	10.0

Report of Analysis

Client:	Woodard & Curran	Date Collected:	03/31/25
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	04/03/25
Client Sample ID:	SSSG-B10-3-03312025DL	SDG No.:	Q1725
Lab Sample ID:	Q1725-06DL	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042248.D	40		04/08/25 00:12	VL040725

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	8.40	41.5	UD	41.5	98.9	ug/m3
74-87-3	Chloromethane	3.90	8.05	UD	8.05	41.3	ug/m3
75-01-4	Vinyl Chloride	0.56	1.43	UD	1.43	3.07	ug/m3
74-83-9	Bromomethane	5.60	21.7	UD	21.7	77.7	ug/m3
75-00-3	Chloroethane	6.80	17.9	UD	17.9	52.8	ug/m3
109-99-9	Tetrahydrofuran	5.20	15.3	UD	15.3	59.0	ug/m3
75-69-4	Trichlorofluoromethane	6.40	36.0	UD	36.0	112	ug/m3
76-13-1	1,1,2-Trichlorotrifluoroethane	6.40	49.0	UD	49.0	153	ug/m3
76-14-2	Dichlorotetrafluoroethane	3.50	24.5	UD	24.5	140	ug/m3
75-65-0	tert-Butyl alcohol	7.60	23.0	UD	23.0	60.6	ug/m3
142-82-5	Heptane	4.40	18.0	UD	18.0	82.0	ug/m3
75-35-4	1,1-Dichloroethene	5.60	22.2	UD	22.2	79.3	ug/m3
67-64-1	Acetone	160	380	D	22.8	47.5	ug/m3
75-15-0	Carbon Disulfide	6.40	19.9	UD	19.9	62.3	ug/m3
1634-04-4	Methyl tert-Butyl Ether	4.80	17.3	UD	17.3	72.1	ug/m3
75-09-2	Methylene Chloride	13.2	45.9	JD	26.4	69.5	ug/m3
156-60-5	trans-1,2-Dichloroethene	7.60	30.1	UD	30.1	79.3	ug/m3
75-34-3	1,1-Dichloroethane	5.20	21.1	UD	21.1	81.0	ug/m3
110-82-7	Cyclohexane	8.80	30.3	UD	30.3	68.8	ug/m3
78-93-3	2-Butanone	16.7	49.3	JD	14.2	59.0	ug/m3
56-23-5	Carbon Tetrachloride	0.44	2.77	UD	2.77	7.55	ug/m3
156-59-2	cis-1,2-Dichloroethene	3.60	14.3	UD	14.3	79.3	ug/m3
67-66-3	Chloroform	3.30	16.1	UD	16.1	97.7	ug/m3
71-55-6	1,1,1-Trichloroethane	0.38	2.07	UD	2.07	6.55	ug/m3
540-84-1	2,2,4-Trimethylpentane	4.00	18.7	UD	18.7	93.4	ug/m3
71-43-2	Benzene	3.50	11.2	UD	11.2	63.9	ug/m3
107-06-2	1,2-Dichloroethane	3.60	14.6	UD	14.6	81.0	ug/m3
79-01-6	Trichloroethene	0.68	3.65	UD	3.65	6.45	ug/m3
78-87-5	1,2-Dichloropropane	4.40	20.3	UD	20.3	92.4	ug/m3
75-27-4	Bromodichloromethane	3.10	20.8	UD	20.8	134	ug/m3
108-10-1	4-Methyl-2-Pentanone	3.70	15.2	UD	15.2	82.0	ug/m3
108-88-3	Toluene	4.40	16.6	UD	16.6	75.4	ug/m3
10061-02-6	t-1,3-Dichloropropene	2.40	10.9	UD	10.9	90.8	ug/m3
10061-01-5	cis-1,3-Dichloropropene	2.60	11.8	UD	11.8	90.8	ug/m3
79-00-5	1,1,2-Trichloroethane	2.80	15.3	UD	15.3	109	ug/m3

Report of Analysis

Client:	Woodard & Curran	Date Collected:	03/31/25
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	04/03/25
Client Sample ID:	SSSG-B10-3-03312025DL	SDG No.:	Q1725
Lab Sample ID:	Q1725-06DL	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400	Units:	mL

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042248.D	40		04/08/25 00:12	VL040725

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
124-48-1	Dibromochloromethane	2.60	22.1	UD	22.1	170	ug/m3
106-93-4	1,2-Dibromoethane	2.90	22.3	UD	22.3	30.7	ug/m3
127-18-4	Tetrachloroethene	2.50	16.9	D	4.07	8.14	ug/m3
108-90-7	Chlorobenzene	3.00	13.8	UD	13.8	92.1	ug/m3
100-41-4	Ethyl Benzene	4.80	20.9	UD	20.9	86.9	ug/m3
179601-23-1	m/p-Xylene	8.40	36.5	UD	36.5	174	ug/m3
95-47-6	o-Xylene	4.80	20.9	UD	20.9	86.9	ug/m3
100-42-5	Styrene	4.40	18.7	UD	18.7	85.2	ug/m3
75-25-2	Bromoform	2.30	23.8	UD	23.8	207	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	0.44	3.02	UD	3.02	8.24	ug/m3
95-49-8	2-Chlorotoluene	4.40	22.8	UD	22.8	104	ug/m3
108-67-8	1,3,5-Trimethylbenzene	4.40	21.6	UD	21.6	98.3	ug/m3
95-63-6	1,2,4-Trimethylbenzene	3.10	15.2	UD	15.2	98.3	ug/m3
541-73-1	1,3-Dichlorobenzene	3.20	19.2	UD	19.2	120	ug/m3
106-46-7	1,4-Dichlorobenzene	2.10	12.6	UD	12.6	120	ug/m3
95-50-1	1,2-Dichlorobenzene	3.00	18.0	UD	18.0	120	ug/m3
120-82-1	1,2,4-Trichlorobenzene	3.40	25.2	UD	25.2	148	ug/m3
87-68-3	Hexachloro-1,3-Butadiene	3.40	36.3	UD	36.3	213	ug/m3
106-99-0	1,3-Butadiene	5.20	11.5	UD	11.5	44.3	ug/m3
91-20-3	Naphthalene	3.00	15.7	UD	15.7	21.0	ug/m3
622-96-8	4-Ethyltoluene	4.80	23.6	UD	23.6	98.3	ug/m3
110-54-3	Hexane	4.40	15.5	UD	15.5	70.5	ug/m3
107-05-1	Allyl Chloride	6.00	18.8	UD	18.8	62.6	ug/m3
123-91-1	1,4-Dioxane	8.40	30.3	UD	30.3	72.1	ug/m3
80-62-6	Methyl Methacrylate	3.40	13.9	UD	13.9	81.9	ug/m3
SURROGATES							
460-00-4	1-Bromo-4-Fluorobenzene	9.40			70 (65) - 130 (135)	94%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	194000		2.803			
540-36-3	1,4-Difluorobenzene	494000		3.984			
3114-55-4	Chlorobenzene-d5	431000		8.904			

Report of Analysis

Client:	Woodard & Curran	Date Collected:	03/31/25
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	04/03/25
Client Sample ID:	SSSG-B10-3-03312025DL	SDG No.:	Q1725
Lab Sample ID:	Q1725-06DL	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042248.D	40		04/08/25 00:12	VL040725

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units

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\VL040725\
 Data File : VL042248.D
 Acq On : 08 Apr 2025 00:12
 Operator : SY/MD
 Sample : Q1725-06DL 40X
 Misc : 400mL/MSVOA_L
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SSSG-B10-3-03312025DL

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 04/14/2025
 Supervised By :Mahesh Dadoda 04/14/2025

Quant Time: Apr 08 01:38:49 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2025

QLast Update : Fri Mar 28 02:00:52 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.803	49	194329	10.000	ppbv	0.02
33) 1,4-Difluorobenzene	3.984	114	493793	10.000	ppbv	0.03
55) Chlorobenzene-d5	8.904	117	430982	10.000	ppbv	0.03
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.396	95	333104	9.412	ppbv	0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	94.100%
Target Compounds						
					Qvalue	
13) Ethanol	1.728	45	126102	99.289	ppbv	83
15) Acetone	1.845	43	110494	4.066	ppbv	96
19) Isopropyl Alcohol	1.897	45	223285	14.561	ppbv #	32
20) Methylene Chloride	2.075	84	3332	0.329	ppbv	95
34) 2-Butanone	2.576	43	14984	0.418	ppbv	97
52) Tetrachloroethene	8.254	164	1214m	0.063	ppbv	

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

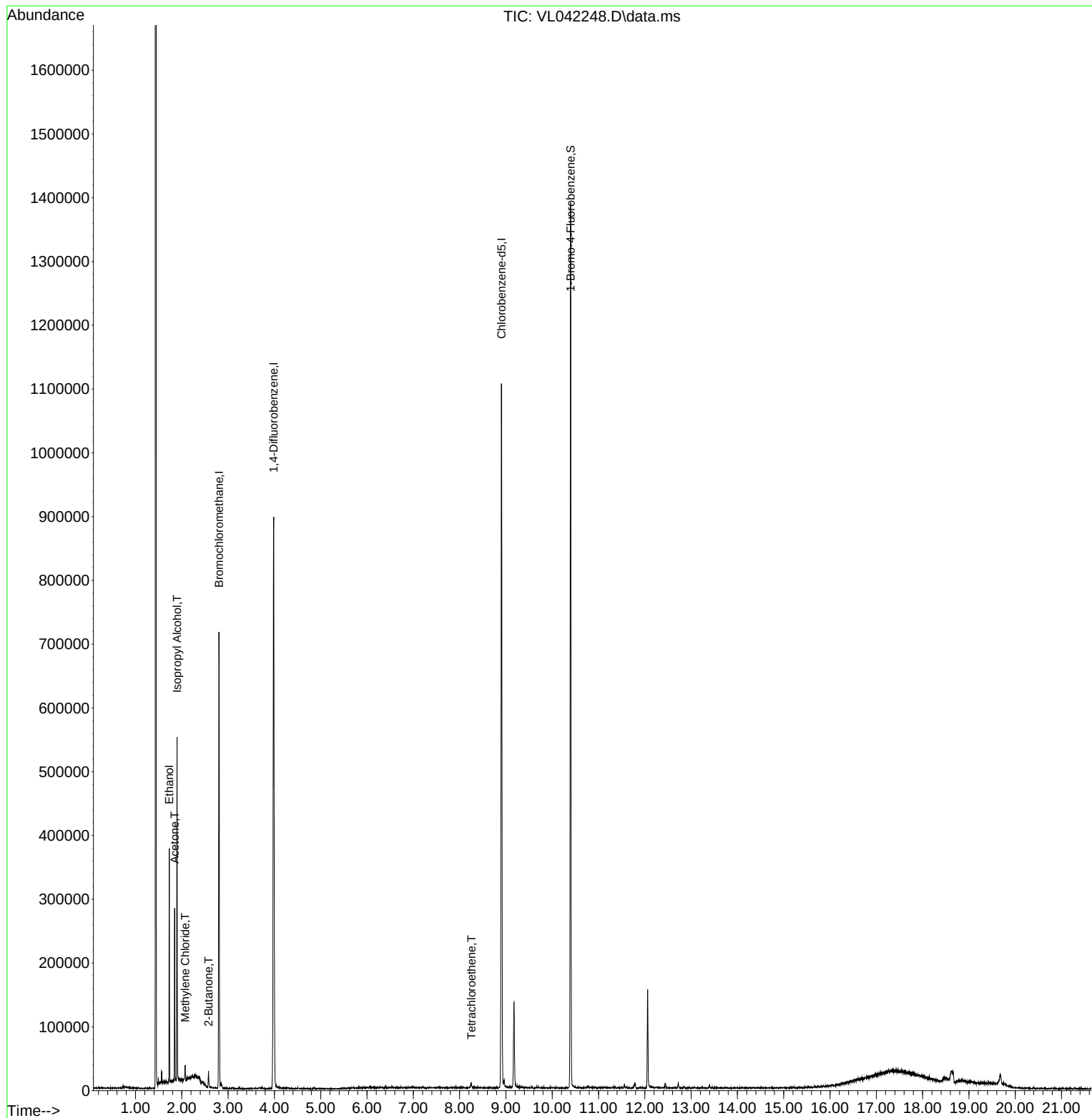
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Data File : VL042248.D
Acq On : 08 Apr 2025 00:12
Operator : SY/MD
Sample : Q1725-06DL 40X
Misc : 400mL/MSVOA_L
ALS Vial : 12 Sample Multiplier: 1

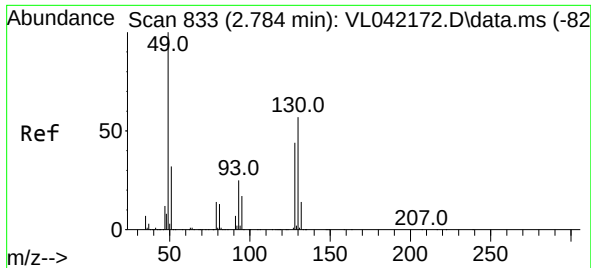
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B10-3-03312025DL

Quant Time: Apr 08 01:38:49 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug
QLast Update : Fri Mar 28 02:00:52 2025
Response via : Initial Calibration

Manual Integrations
APPROVED

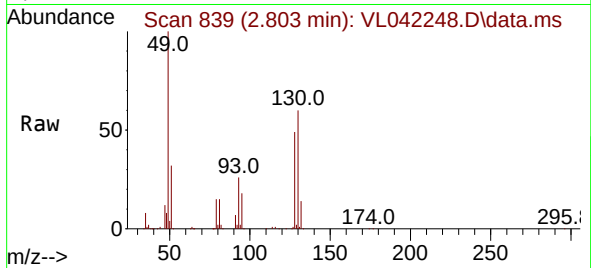
Reviewed By : Semsettin Yesilyurt 04/14/2025
Supervised By : Mahesh Dadoda 04/14/2025





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.803 min Scan# 81
Delta R.T. 0.019 min
Lab File: VL042248.D
Acq: 08 Apr 2025 00:12

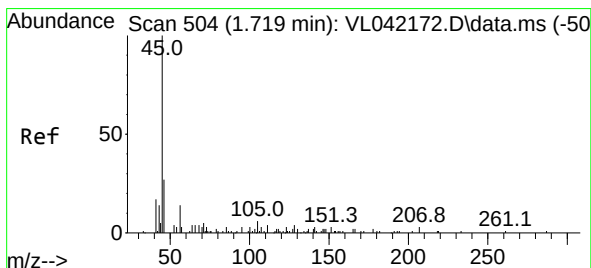
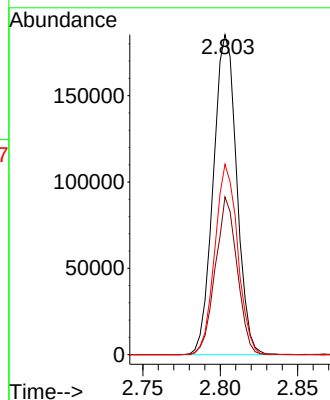
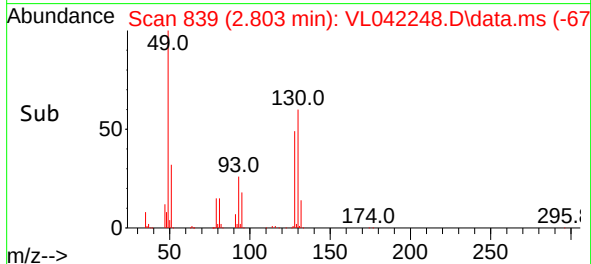
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B10-3-03312025DL



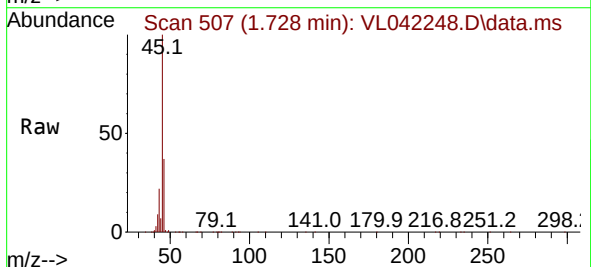
Tgt Ion: 49 Resp: 194329
Ion Ratio Lower Upper
49 100
128 46.0 22.9 68.5
130 58.3 28.8 86.4

Manual Integrations
APPROVED

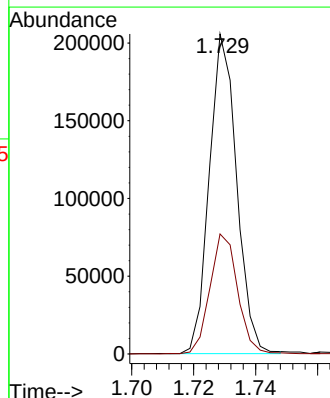
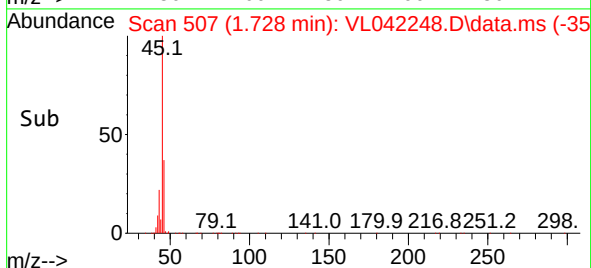
Reviewed By :Semsettin Yesilyurt 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025

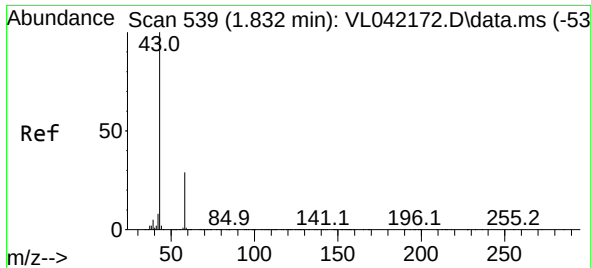


#13
Ethanol
Concen: 99.289 ppbv
RT: 1.728 min Scan# 507
Delta R.T. 0.009 min
Lab File: VL042248.D
Acq: 08 Apr 2025 00:12



Tgt Ion: 45 Resp: 126102
Ion Ratio Lower Upper
45 100
46 38.8 20.2 80.8





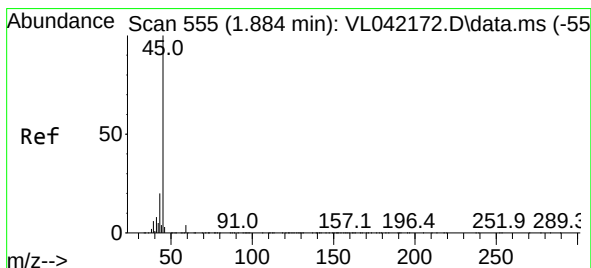
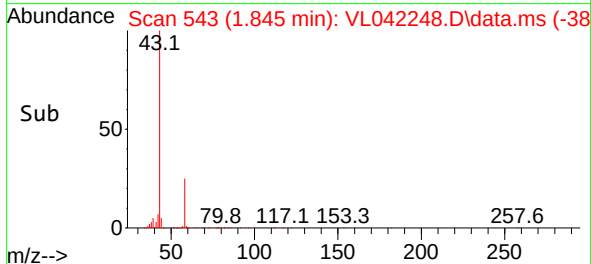
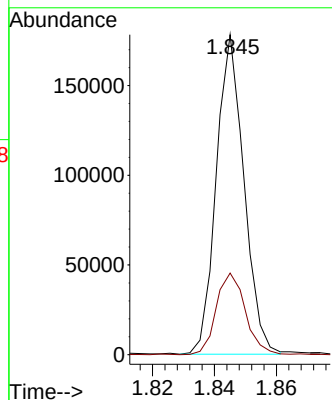
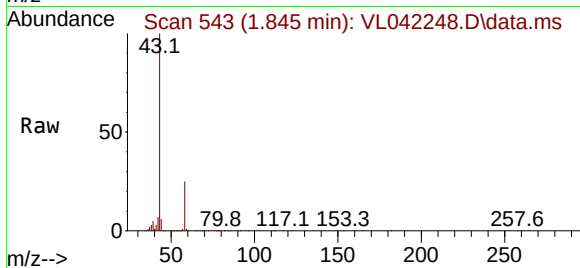
#15
Acetone
Concen: 4.066 ppbv
RT: 1.845 min Scan# 54
Delta R.T. 0.013 min
Lab File: VL042248.D
Acq: 08 Apr 2025 00:12

Instrument :
MSVOA_L
ClientSampleId :
SSSG-B10-3-03312025DL

Tgt Ion: 43 Resp: 110494
Ion Ratio Lower Upper
43 100
58 27.1 23.2 34.8

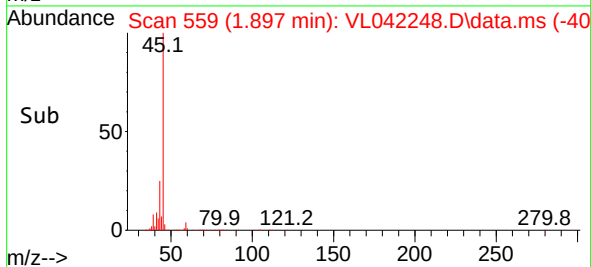
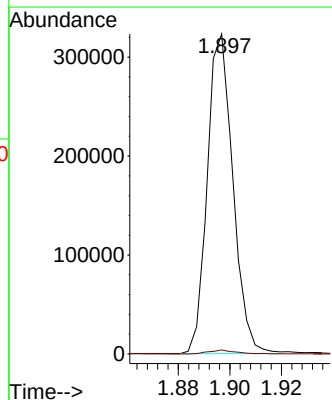
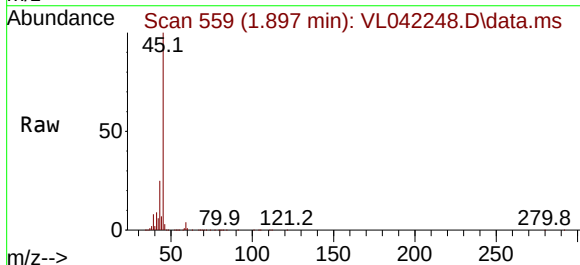
Manual Integrations
APPROVED

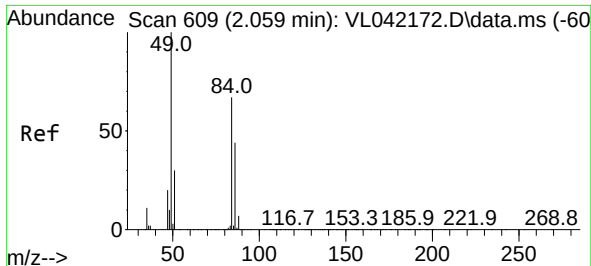
Reviewed By :Semsettin Yesilyurt 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#19
Isopropyl Alcohol
Concen: 14.561 ppbv
RT: 1.897 min Scan# 559
Delta R.T. 0.013 min
Lab File: VL042248.D
Acq: 08 Apr 2025 00:12

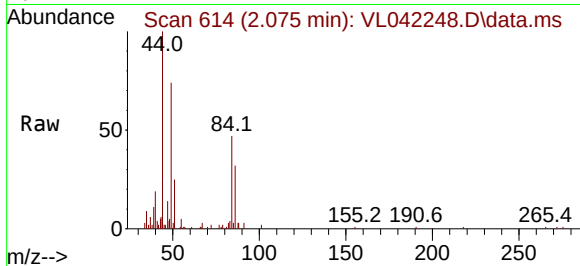
Tgt Ion: 45 Resp: 223285
Ion Ratio Lower Upper
45 100
58 1.4 36.9 55.3#





#20
Methylene Chloride
Concen: 0.329 ppbv
RT: 2.075 min Scan# 614
Delta R.T. 0.016 min
Lab File: VL042248.D
Acq: 08 Apr 2025 00:12

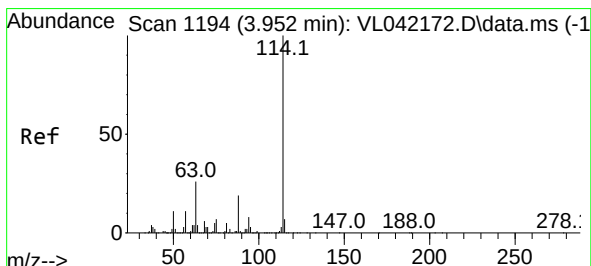
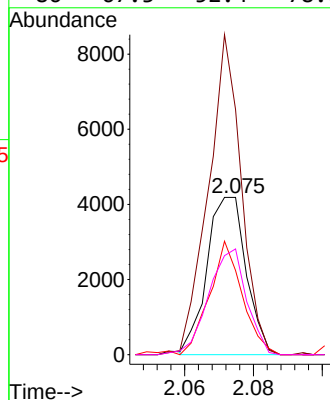
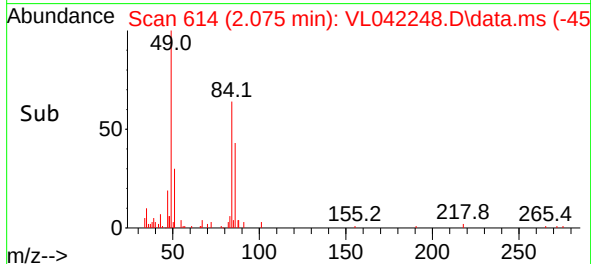
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B10-3-03312025DL



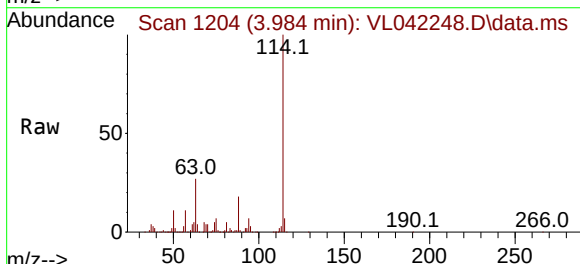
Tgt Ion:	84	Resp:	333
Ion	Ratio	Lower	Upper
84	100		
49	155.9	120.2	180.4
51	53.5	37.4	56.0
86	67.3	52.4	78.6

Manual Integrations
APPROVED

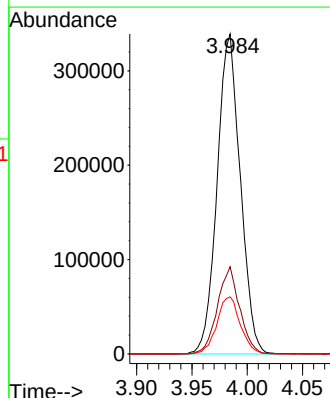
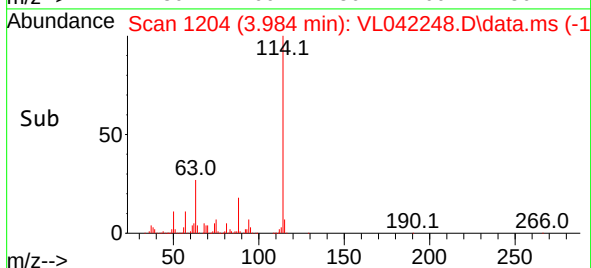
Reviewed By :Semsettin Yesilyurt 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025

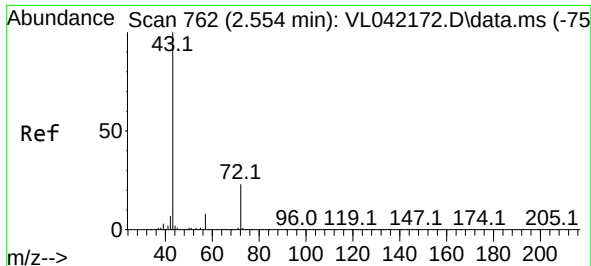


#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.984 min Scan# 1204
Delta R.T. 0.032 min
Lab File: VL042248.D
Acq: 08 Apr 2025 00:12



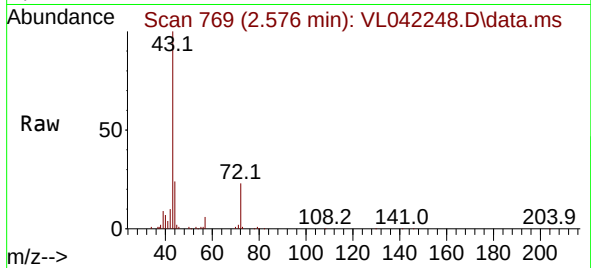
Tgt Ion:	114	Resp:	493793
Ion	Ratio	Lower	Upper
114	100		
63	26.2	20.7	31.1
88	18.0	15.0	22.4





#34
2-Butanone
Concen: 0.418 ppbv
RT: 2.576 min Scan# 769
Delta R.T. 0.022 min
Lab File: VL042248.D
Acq: 08 Apr 2025 00:12

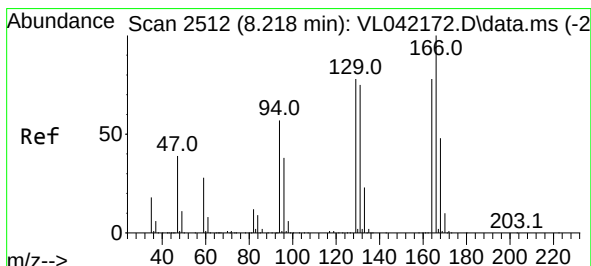
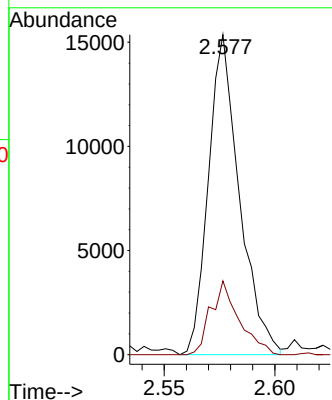
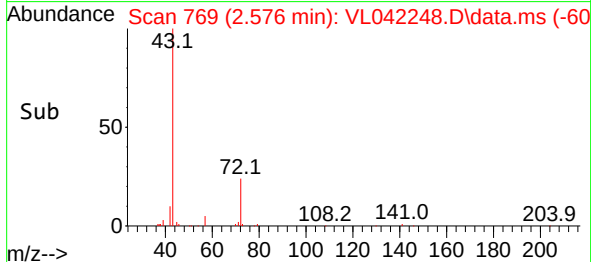
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B10-3-03312025DL



Tgt Ion: 43 Resp: 14984
Ion Ratio Lower Upper
43 100
72 21.3 18.2 27.2

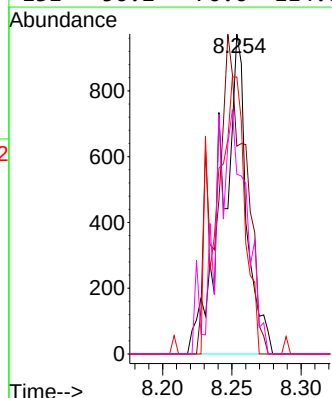
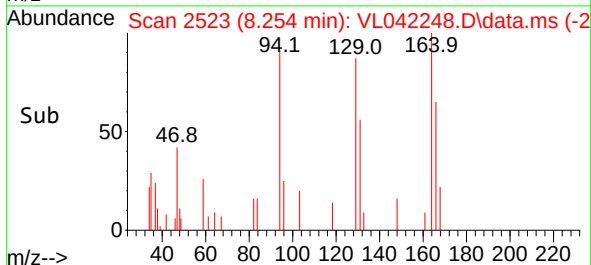
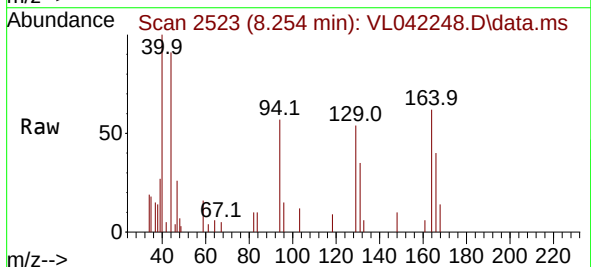
Manual Integrations
APPROVED

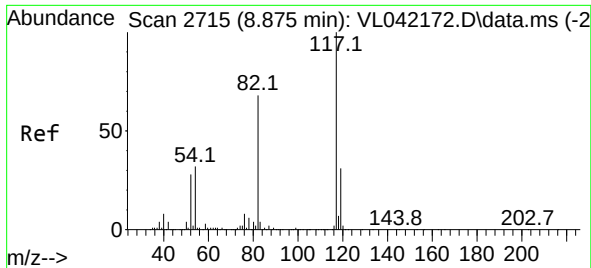
Reviewed By :Semsettin Yesilyurt 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#52
Tetrachloroethene
Concen: 0.063 ppbv m
RT: 8.254 min Scan# 2523
Delta R.T. 0.035 min
Lab File: VL042248.D
Acq: 08 Apr 2025 00:12

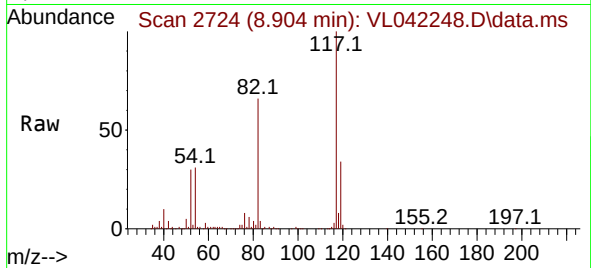
Tgt Ion:164 Resp: 1214
Ion Ratio Lower Upper
164 100
166 65.0 102.5 153.7#
129 86.5 79.8 119.8
131 56.2 76.6 114.8#





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.904 min Scan# 21
Delta R.T. 0.029 min
Lab File: VL042248.D
Acq: 08 Apr 2025 00:12

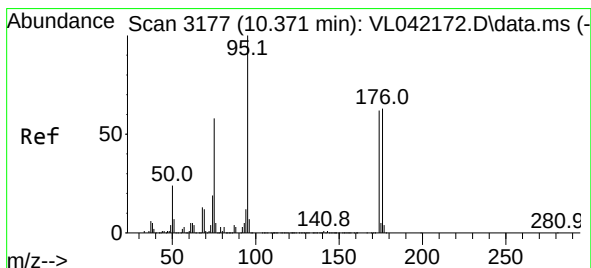
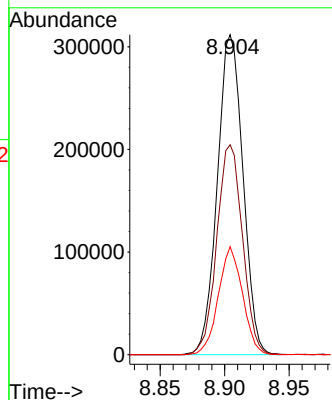
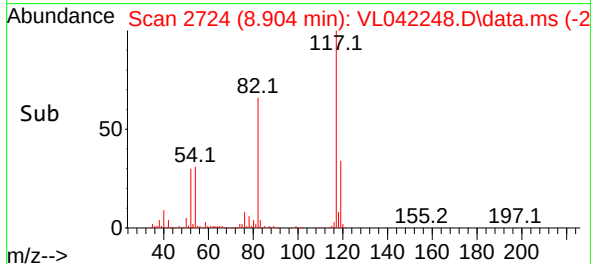
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B10-3-03312025DL



Tgt Ion: 117 Resp: 43098
Ion Ratio Lower Upper
117 100
82 65.8 55.8 83.6
119 31.8 25.5 38.3

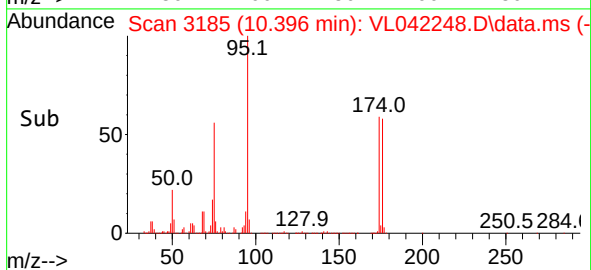
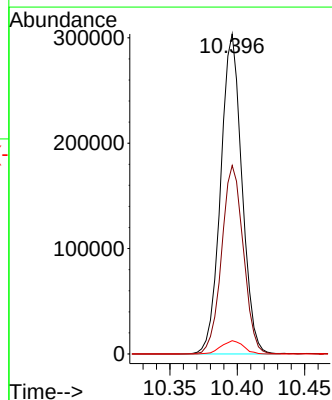
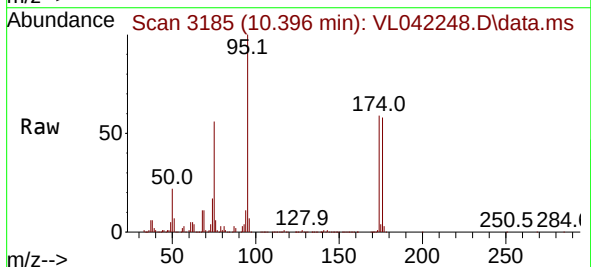
Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#68
1-Bromo-4-Fluorobenzene
Concen: 9.412 ppbv
RT: 10.396 min Scan# 3185
Delta R.T. 0.026 min
Lab File: VL042248.D
Acq: 08 Apr 2025 00:12

Tgt Ion: 95 Resp: 333104
Ion Ratio Lower Upper
95 100
174 60.2 50.6 76.0
175 4.3 3.8 5.6



Report of Analysis

Client:	Woodard & Curran	Date Collected:	03/31/25
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	04/03/25
Client Sample ID:	SSSG-B10-1-03312025-SPLIT	SDG No.:	Q1725
Lab Sample ID:	Q1725-07	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042249.D	1		04/08/25 00:46	VL040725

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.36	1.78	J	1.04	2.47	ug/m3
74-87-3	Chloromethane	0.10	0.21	U	0.21	1.03	ug/m3
75-01-4	Vinyl Chloride	0.010	0.030	U	0.030	0.080	ug/m3
74-83-9	Bromomethane	0.14	0.54	U	0.54	1.94	ug/m3
75-00-3	Chloroethane	0.17	0.45	U	0.45	1.32	ug/m3
109-99-9	Tetrahydrofuran	0.13	0.38	U	0.38	1.47	ug/m3
75-69-4	Trichlorofluoromethane	0.24	1.35	J	0.90	2.81	ug/m3
76-13-1	1,1,2-Trichlorotrifluoroethane	0.16	1.23	U	1.23	3.83	ug/m3
76-14-2	Dichlorotetrafluoroethane	0.090	0.63	U	0.63	3.49	ug/m3
75-65-0	tert-Butyl alcohol	0.80	2.43		0.58	1.52	ug/m3
142-82-5	Heptane	0.61	2.50		0.45	2.05	ug/m3
75-35-4	1,1-Dichloroethene	0.14	0.56	U	0.56	1.98	ug/m3
67-64-1	Acetone	28.2	67.0	E	0.57	1.19	ug/m3
75-15-0	Carbon Disulfide	0.16	0.50	U	0.50	1.56	ug/m3
1634-04-4	Methyl tert-Butyl Ether	0.12	0.43	U	0.43	1.80	ug/m3
75-09-2	Methylene Chloride	1.10	3.82		0.66	1.74	ug/m3
156-60-5	trans-1,2-Dichloroethene	0.19	0.75	U	0.75	1.98	ug/m3
75-34-3	1,1-Dichloroethane	0.13	0.53	U	0.53	2.02	ug/m3
110-82-7	Cyclohexane	0.22	0.76	U	0.76	1.72	ug/m3
78-93-3	2-Butanone	1.50	4.42		0.35	1.47	ug/m3
56-23-5	Carbon Tetrachloride	0.090	0.57		0.060	0.19	ug/m3
156-59-2	cis-1,2-Dichloroethene	0.090	0.36	U	0.36	1.98	ug/m3
67-66-3	Chloroform	2.40	11.7		0.39	2.44	ug/m3
71-55-6	1,1,1-Trichloroethane	0.030	0.16		0.050	0.16	ug/m3
540-84-1	2,2,4-Trimethylpentane	0.29	1.35	J	0.47	2.34	ug/m3
71-43-2	Benzene	0.49	1.57	J	0.29	1.60	ug/m3
107-06-2	1,2-Dichloroethane	0.090	0.36	U	0.36	2.02	ug/m3
79-01-6	Trichloroethene	0.26	1.40		0.11	0.16	ug/m3
78-87-5	1,2-Dichloropropane	0.11	0.51	U	0.51	2.31	ug/m3
75-27-4	Bromodichloromethane	0.080	0.54	U	0.54	3.35	ug/m3
108-10-1	4-Methyl-2-Pentanone	0.090	0.37	U	0.37	2.05	ug/m3
108-88-3	Toluene	4.30	16.2		0.41	1.88	ug/m3
10061-02-6	t-1,3-Dichloropropene	0.060	0.27	U	0.27	2.27	ug/m3
10061-01-5	cis-1,3-Dichloropropene	0.060	0.27	U	0.27	2.27	ug/m3
79-00-5	1,1,2-Trichloroethane	0.070	0.38	U	0.38	2.73	ug/m3

Report of Analysis

Client:	Woodard & Curran	Date Collected:	03/31/25
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	04/03/25
Client Sample ID:	SSSG-B10-1-03312025-SPLIT	SDG No.:	Q1725
Lab Sample ID:	Q1725-07	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042249.D	1		04/08/25 00:46	VL040725

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
124-48-1	Dibromochloromethane	0.070	0.60	U	0.60	4.26	ug/m3
106-93-4	1,2-Dibromoethane	0.070	0.54	U	0.54	0.77	ug/m3
127-18-4	Tetrachloroethene	0.75	5.09		0.14	0.20	ug/m3
108-90-7	Chlorobenzene	0.080	0.37	U	0.37	2.30	ug/m3
100-41-4	Ethyl Benzene	0.87	3.78		0.52	2.17	ug/m3
179601-23-1	m/p-Xylene	4.30	18.7		0.91	4.34	ug/m3
95-47-6	o-Xylene	1.80	7.82		0.52	2.17	ug/m3
100-42-5	Styrene	0.11	0.47	U	0.47	2.13	ug/m3
75-25-2	Bromoform	0.060	0.62	U	0.62	5.17	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	0.010	0.070	U	0.070	0.21	ug/m3
95-49-8	2-Chlorotoluene	0.11	0.57	U	0.57	2.59	ug/m3
108-67-8	1,3,5-Trimethylbenzene	0.44	2.16	J	0.54	2.46	ug/m3
95-63-6	1,2,4-Trimethylbenzene	1.70	8.36		0.39	2.46	ug/m3
541-73-1	1,3-Dichlorobenzene	0.16	0.96	J	0.48	3.01	ug/m3
106-46-7	1,4-Dichlorobenzene	0.050	0.30	U	0.30	3.01	ug/m3
95-50-1	1,2-Dichlorobenzene	0.080	0.48	U	0.48	3.01	ug/m3
120-82-1	1,2,4-Trichlorobenzene	0.090	0.67	U	0.67	3.71	ug/m3
87-68-3	Hexachloro-1,3-Butadiene	0.090	0.96	U	0.96	5.33	ug/m3
106-99-0	1,3-Butadiene	0.13	0.29	U	0.29	1.11	ug/m3
91-20-3	Naphthalene	0.080	0.42	U	0.42	0.52	ug/m3
622-96-8	4-Ethyltoluene	0.12	0.59	U	0.59	2.46	ug/m3
110-54-3	Hexane	1.00	3.52		0.39	1.76	ug/m3
107-05-1	Allyl Chloride	0.15	0.47	U	0.47	1.57	ug/m3
123-91-1	1,4-Dioxane	0.21	0.76	U	0.76	1.80	ug/m3
80-62-6	Methyl Methacrylate	0.090	0.37	U	0.37	2.05	ug/m3

SURROGATES

460-00-4	1-Bromo-4-Fluorobenzene	10.0		70 (65) - 130 (135)	100%	SPK: 10

INTERNAL STANDARDS

74-97-5	Bromochloromethane	198000	2.807
540-36-3	1,4-Difluorobenzene	507000	3.988
3114-55-4	Chlorobenzene-d5	466000	8.908

TENTATIVE IDENTIFIED COMPOUNDS

75-45-6	Chlorodifluoromethane	0.13	J	1.49	ppbv
115-07-1	Propene	1.40	J	1.50	ppbv
000115-11-7	1-Propene, 2-methyl-	2.70	J	1.61	ppbv

Report of Analysis

Client:	Woodard & Curran	Date Collected:	03/31/25
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	04/03/25
Client Sample ID:	SSSG-B10-1-03312025-SPLIT	SDG No.:	Q1725
Lab Sample ID:	Q1725-07	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042249.D	1		04/08/25 00:46	VL040725

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
64-17-5	Ethanol	180		J		1.73	ppbv
67-63-0	Isopropyl Alcohol	17.4		J		1.90	ppbv
000107-83-5	Pentane, 2-methyl-	1.60		J		2.49	ppbv
003769-23-1	1-Hexene, 4-methyl-	1.30		J		2.65	ppbv
000589-34-4	Hexane, 3-methyl-	1.20		J		4.30	ppbv
103-65-1	n-propylbenzene	0.23		J		11.0	ppbv
000611-14-3	Benzene, 1-ethyl-2-methyl-	1.40		J		11.1	ppbv
017312-82-2	Undecane, 4,6-dimethyl-	1.70		J		12.2	ppbv
000124-19-6	Nonanal	2.80		J		12.7	ppbv

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\VL040725\
 Data File : VL042249.D
 Acq On : 08 Apr 2025 00:46
 Operator : SY/MD
 Sample : Q1725-07
 Misc : 400mL/MSVOA_L
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SSSG-B10-1-03312025-SPLIT

Manual Integrations
 APPROVED

Reviewed By : Semsettin
 Yesilyurt

Quant Time: Apr 08 01:39:12 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2025

QLast Update : Fri Mar 28 02:00:52 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
Internal Standards							04/08/2025
1) Bromochloromethane	2.807	49	197758	10.000	ppbv	0.03	Supervised By : Mahesh
33) 1,4-Difluorobenzene	3.988	114	506596	10.000	ppbv	0.04	adoda
55) Chlorobenzene-d5	8.908	117	465539	10.000	ppbv	0.03	
System Monitoring Compounds							04/09/2025
68) 1-Bromo-4-Fluorobenzene	10.400	95	381596	9.981	ppbv	0.03	
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.800%	
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.505	85	10548	0.361	ppbv	90	
3) Chlorodifluoromethane	1.486	51	3867m	0.130	ppbv		
9) Propene	1.496	41	19346m	1.415	ppbv		
10) Heptane	5.024	43	22305	0.613	ppbv #	84	
11) Trichlorofluoromethane	1.891	101	6666	0.235	ppbv	97	
13) Ethanol	1.732	45	236496	182.981	ppbv	83	
15) Acetone	1.845	43	779996	28.202	ppbv	96	
17) tert-Butyl alcohol	2.056	59	27696m	0.804	ppbv		
19) Isopropyl Alcohol	1.900	45	271152	17.376	ppbv #	52	
20) Methylene Chloride	2.075	84	11817	1.147	ppbv	93	
26) Hexane	2.849	57	27836	1.004	ppbv #	39	
29) Chloroform	2.871	83	95587	2.356	ppbv	94	
32) 1,1,1-Trichloroethane	3.386	97	1528m	0.033	ppbv		
34) 2-Butanone	2.577	43	55098	1.500	ppbv	100	
35) Carbon Tetrachloride	3.790	117	3565m	0.090	ppbv		
36) Benzene	3.680	78	24686	0.492	ppbv #	90	
38) Trichloroethene	4.583	130	5516m	0.263	ppbv		
44) 2,2,4-Trimethylpentane	4.677	57	24653m	0.290	ppbv		
52) Tetrachloroethene	8.251	164	14870m	0.747	ppbv		
53) Toluene	6.972	91	258006	4.334	ppbv	100	
58) Ethyl Benzene	9.383	91	72131	0.872	ppbv	96	
59) m/p-Xylene	9.558	91	284370	4.307	ppbv	100	
60) o-Xylene	9.992	91	118466	1.790	ppbv	97	
64) n-propylbenzene	11.011	120	5944	0.233	ppbv	96	
73) 1,3,5-Trimethylbenzene	11.225	105	31326	0.435	ppbv	100	
74) 1,2,4-Trimethylbenzene	11.558	105	144819	1.746	ppbv #	65	
75) 1,3-Dichlorobenzene	11.626	146	7305	0.161	ppbv	93	

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040725\
Data File : VL042249.D
Acq On : 08 Apr 2025 00:46
Operator : SY/MD
Sample : Q1725-07
Misc : 400mL/MSVOA_L
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
SSSG-B10-1-03312025-SPLIT

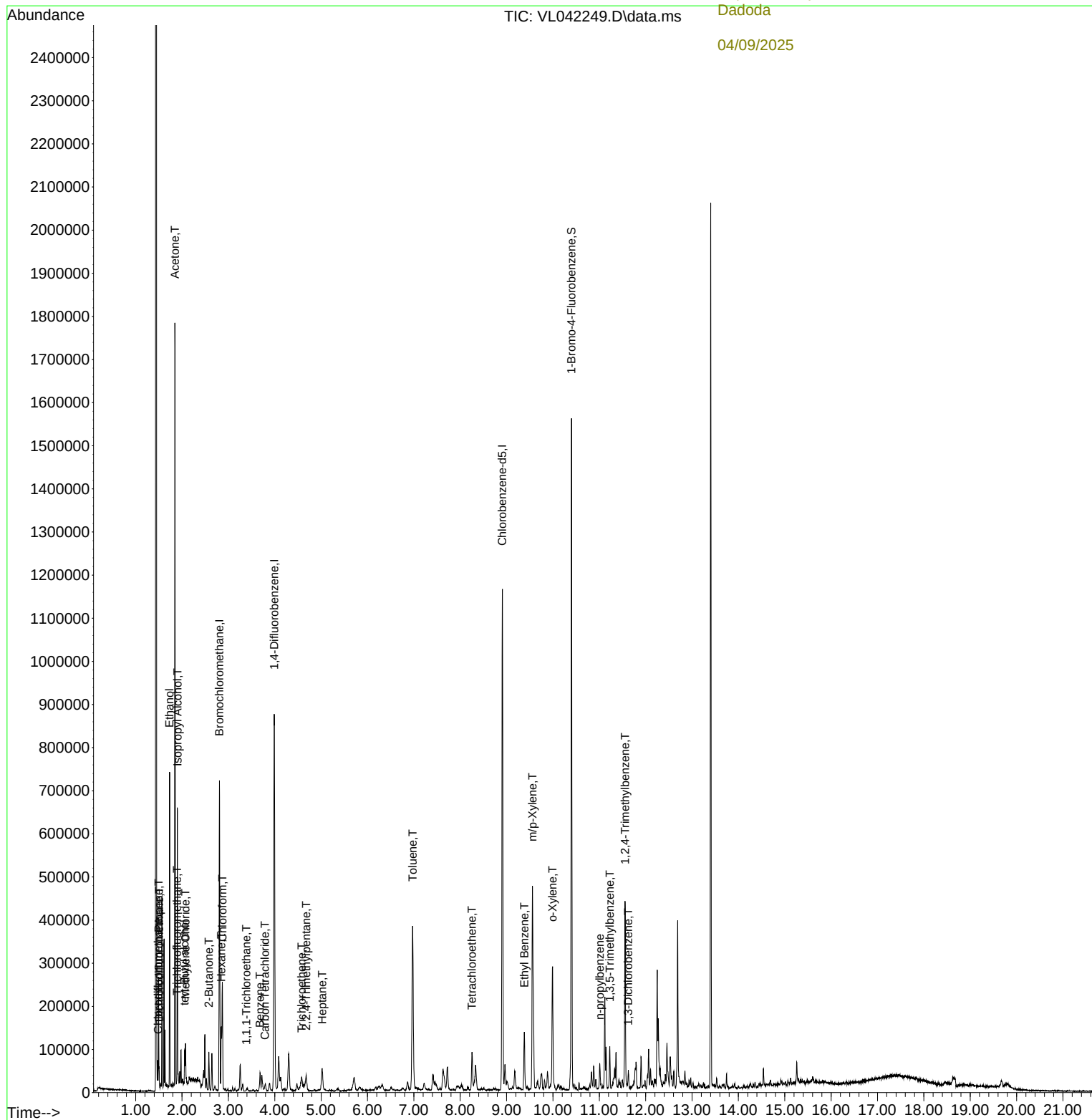
Quant Time: Apr 08 01:39:12 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Fri Mar 28 02:00:52 2025
Response via : Initial Calibration

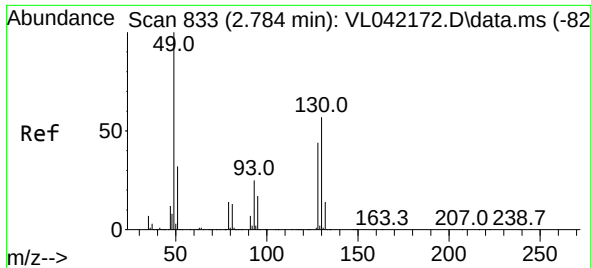
Manual Integrations
APPROVED

Reviewed By : Semsettin
Yesilyurt

04/08/2025
Supervised By : Mahesh
Dadoda

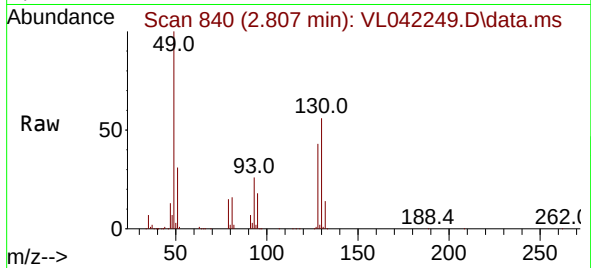
04/09/2025





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.807 min Scan# 840
Delta R.T. 0.023 min
Lab File: VL042249.D
Acq: 08 Apr 2025 00:46

Instrument : MSVOA_L
ClientSampleId : SSSG-B10-1-03312025-SPLIT



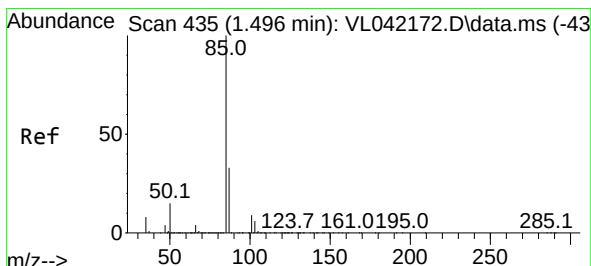
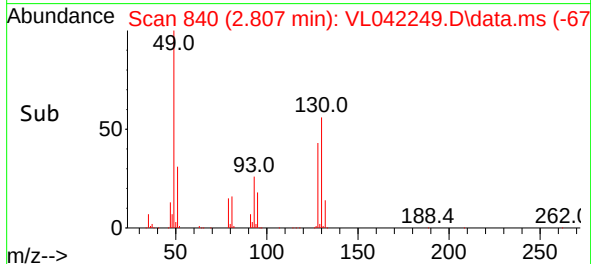
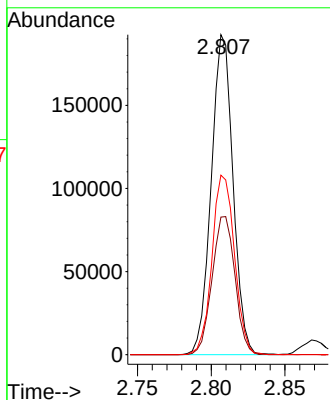
Tgt Ion: 49 Resp: 197758
Ion Ratio Lower Upper
49 100
128 45.4 22.9 68.5
130 58.1 28.8 86.4

Manual Integrations
APPROVED

Reviewed By :Semsettin
Yesilyurt

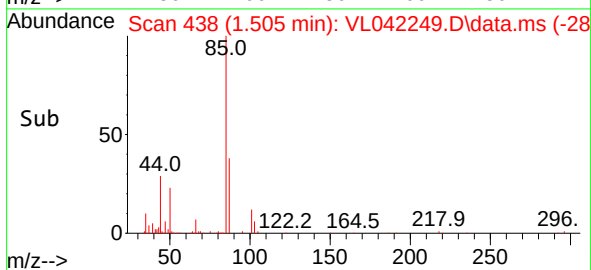
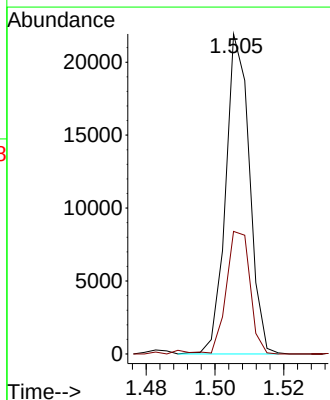
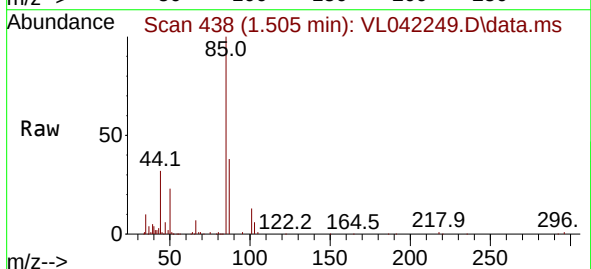
04/08/2025
Supervised By :Mahesh
Dadoda

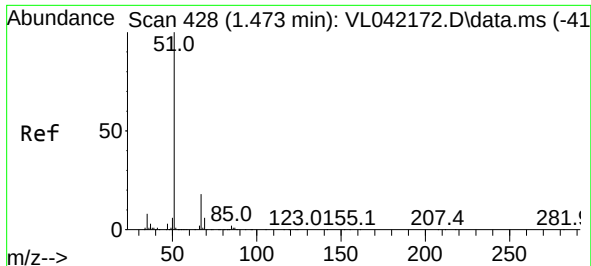
04/09/2025



#2
Dichlorodifluoromethane
Concen: 0.361 ppbv
RT: 1.505 min Scan# 438
Delta R.T. 0.010 min
Lab File: VL042249.D
Acq: 08 Apr 2025 00:46

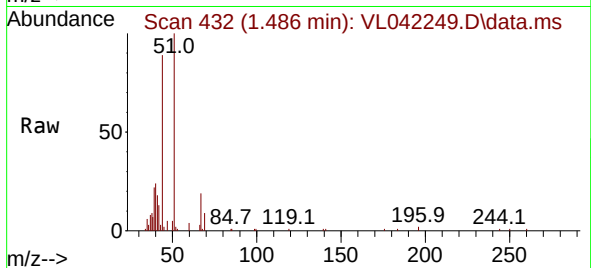
Tgt Ion: 85 Resp: 10548
Ion Ratio Lower Upper
85 100
87 38.3 26.1 39.1





#3
Chlorodifluoromethane
Concen: 0.130 ppbv m
RT: 1.486 min Scan# 41
Delta R.T. 0.013 min
Lab File: VL042249.D
Acq: 08 Apr 2025 00:46

Instrument :
MSVOA_L
ClientSampleId :
SSSG-B10-1-03312025-SPLIT



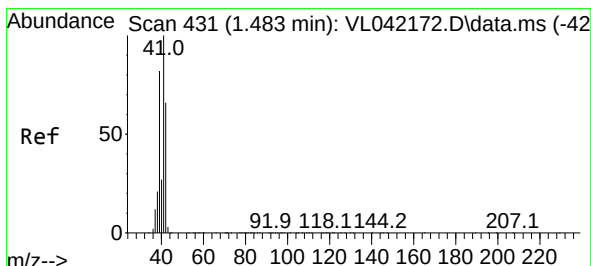
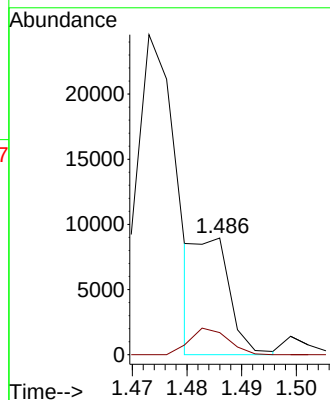
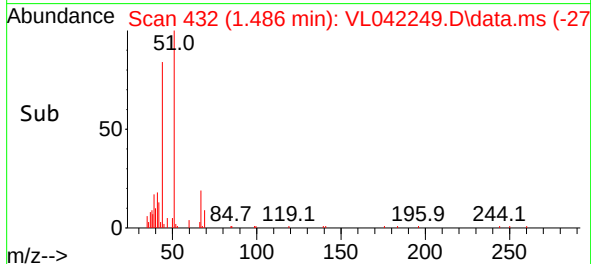
Tgt Ion: 51 Resp: 386
Ion Ratio Lower Upper
51 100
67 25.8 15.0 22.6

Manual Integrations
APPROVED

Reviewed By :Semsettin
Yesilyurt

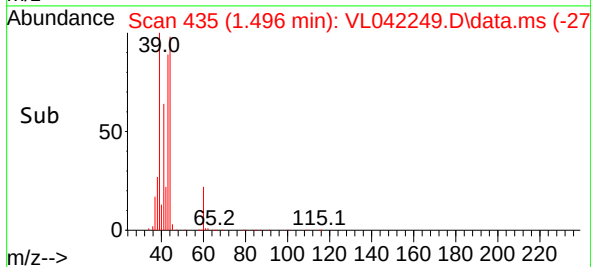
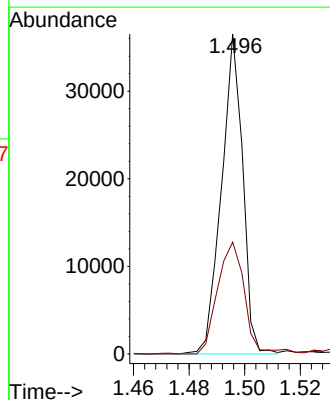
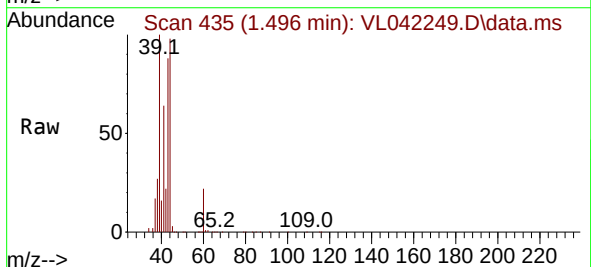
04/08/2025
Supervised By :Mahesh
Dadoda

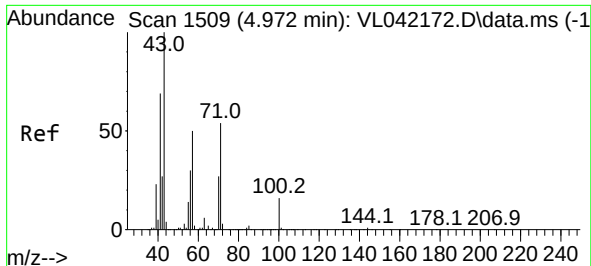
04/09/2025



#9
Propene
Concen: 1.415 ppbv m
RT: 1.496 min Scan# 435
Delta R.T. 0.013 min
Lab File: VL042249.D
Acq: 08 Apr 2025 00:46

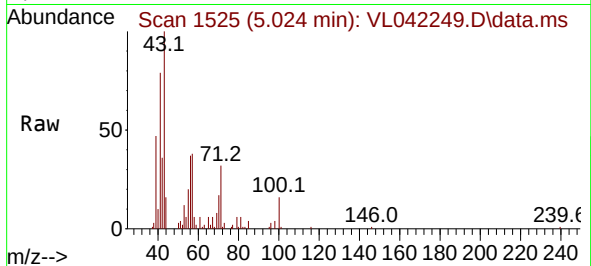
Tgt Ion: 41 Resp: 19346
Ion Ratio Lower Upper
41 100
42 42.2 55.4 83.2#





#10
Heptane
Concen: 0.613 ppbv
RT: 5.024 min Scan# 11
Delta R.T. 0.052 min
Lab File: VL042249.D
Acq: 08 Apr 2025 00:46

Instrument :
MSVOA_L
ClientSampleId :
SSSG-B10-1-03312025-SPLIT



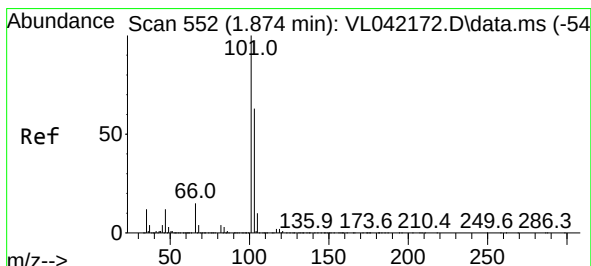
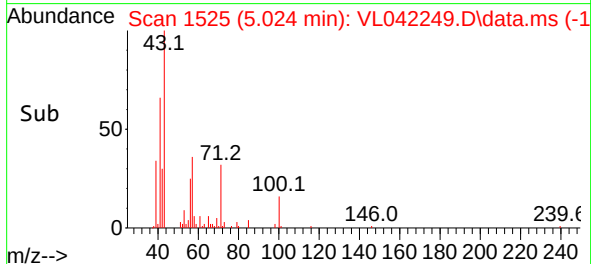
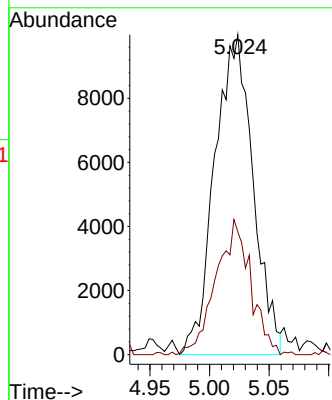
Tgt Ion: 43 Resp: 2230
Ion Ratio Lower Upper
43 100
57 38.5 39.4 59.2

Manual Integrations
APPROVED

Reviewed By :Semsettin
Yesilyurt

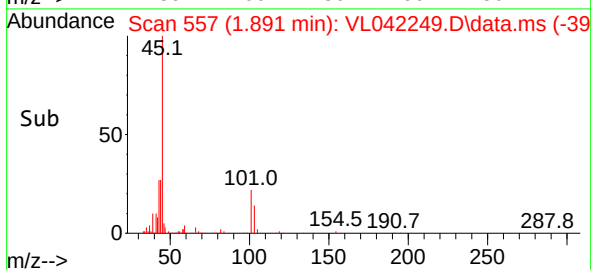
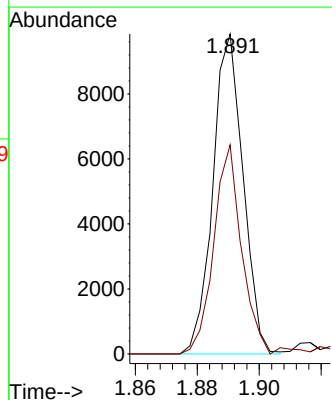
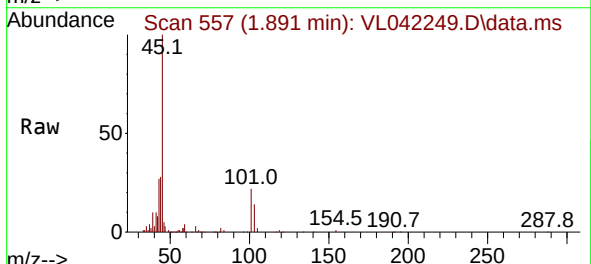
04/08/2025
Supervised By :Mahesh
Dadoda

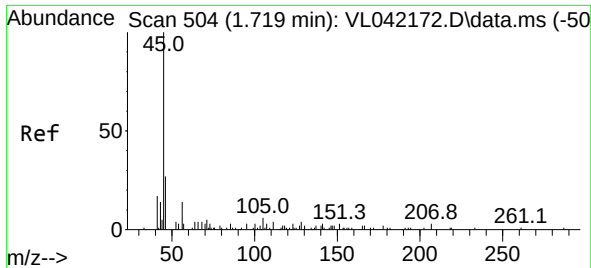
04/09/2025



#11
Trichlorofluoromethane
Concen: 0.235 ppbv
RT: 1.891 min Scan# 557
Delta R.T. 0.016 min
Lab File: VL042249.D
Acq: 08 Apr 2025 00:46

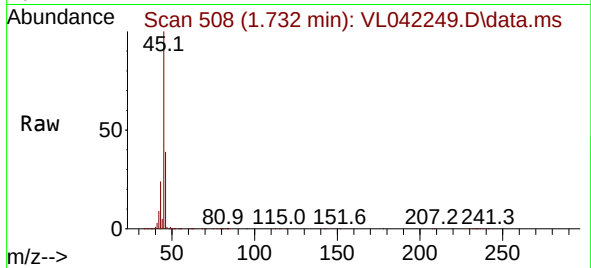
Tgt Ion:101 Resp: 6666
Ion Ratio Lower Upper
101 100
103 65.3 50.2 75.2





#13
Ethanol
Concen: 182.981 ppbv
RT: 1.732 min Scan# 508
Delta R.T. 0.013 min
Lab File: VL042249.D
Acq: 08 Apr 2025 00:46

Instrument :
MSVOA_L
ClientSampleId :
SSSG-B10-1-03312025-SPLIT



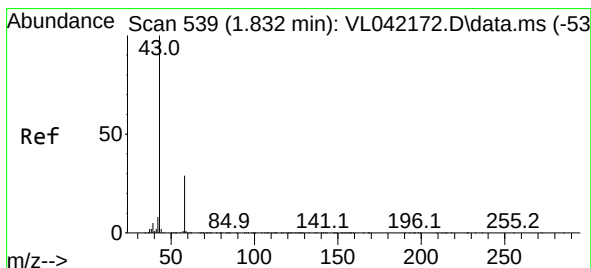
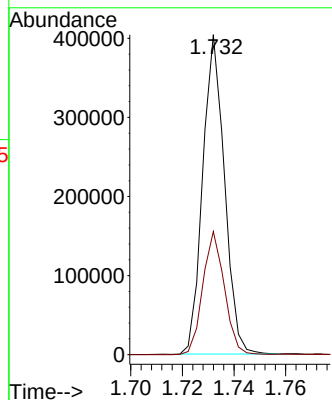
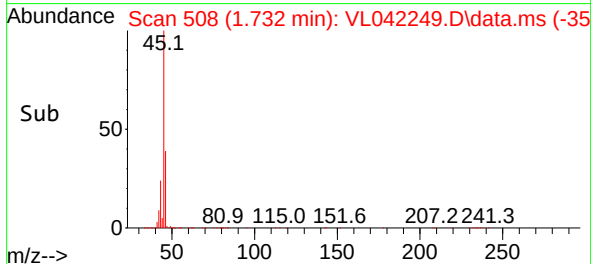
Tgt Ion: 45 Resp: 236490
Ion Ratio Lower Upper
45 100
46 38.7 20.2 80.8

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Reviewed By :Semsettin
Yesilyurt

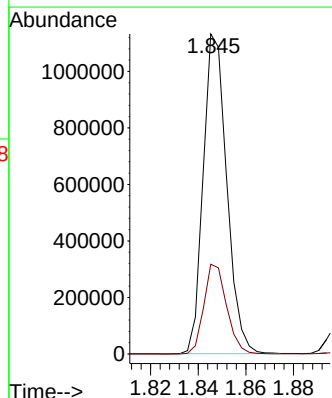
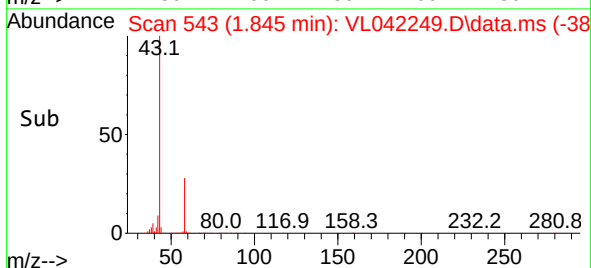
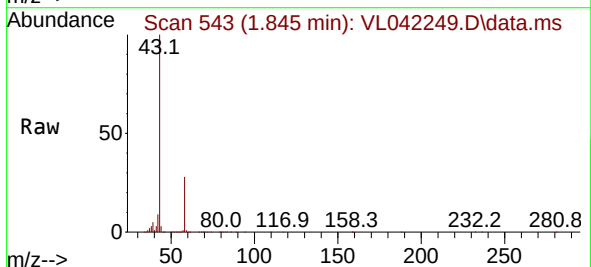
04/08/2025
Supervised By :Mahesh
Dadoda

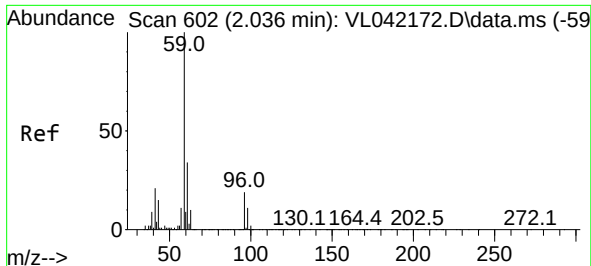
04/09/2025



#15
Acetone
Concen: 28.202 ppbv
RT: 1.845 min Scan# 543
Delta R.T. 0.013 min
Lab File: VL042249.D
Acq: 08 Apr 2025 00:46

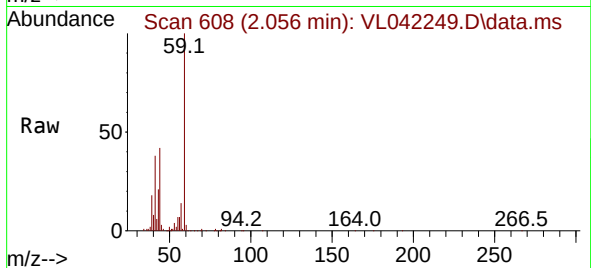
Tgt Ion: 43 Resp: 779996
Ion Ratio Lower Upper
43 100
58 27.1 23.2 34.8





#17
tert-Butyl alcohol
Concen: 0.804 ppbv m
RT: 2.056 min Scan# 602
Delta R.T. 0.019 min
Lab File: VL042249.D
Acq: 08 Apr 2025 00:46

Instrument : MSVOA_L
ClientSampleId : SSSG-B10-1-03312025-SPLIT



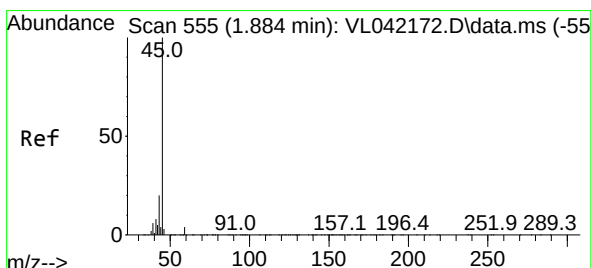
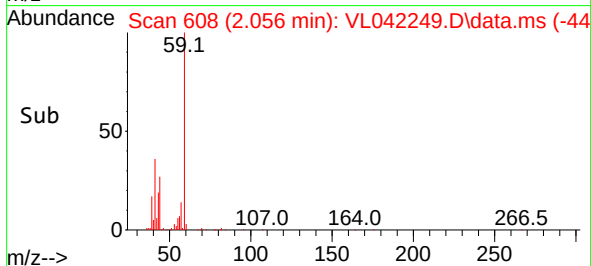
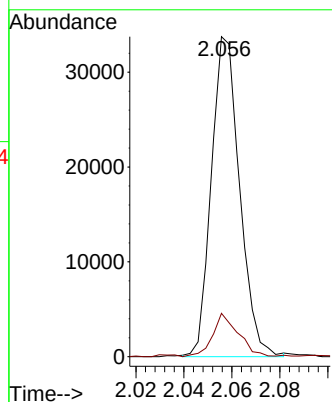
Tgt Ion: 59 Resp: 27690
Ion Ratio Lower Upper
59 100
57 3.9 8.9 13.3

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Reviewed By :Semsettin
Yesilyurt

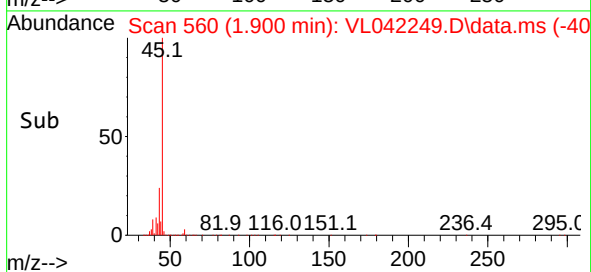
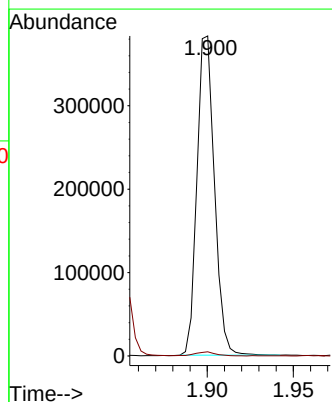
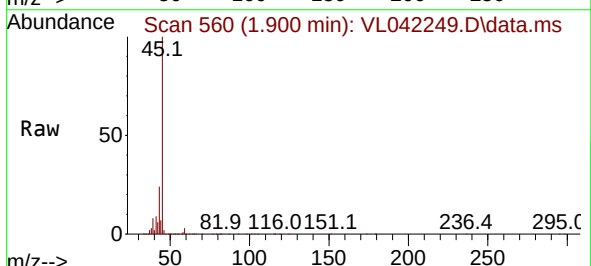
04/08/2025
Supervised By :Mahesh
Dadoda

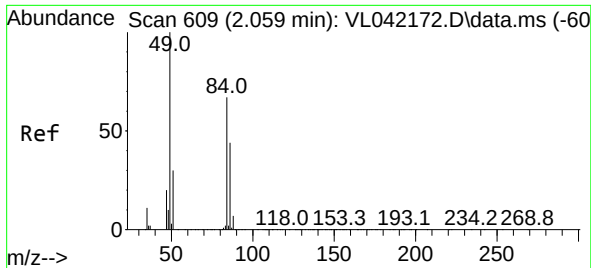
04/09/2025



#19
Isopropyl Alcohol
Concen: 17.376 ppbv
RT: 1.900 min Scan# 560
Delta R.T. 0.016 min
Lab File: VL042249.D
Acq: 08 Apr 2025 00:46

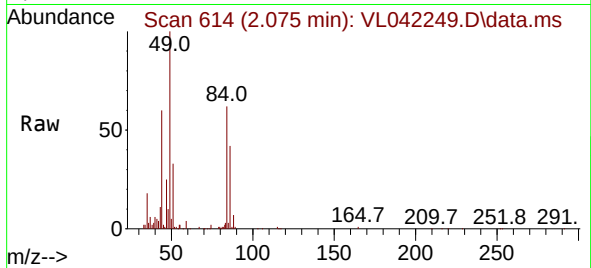
Tgt Ion: 45 Resp: 271152
Ion Ratio Lower Upper
45 100
58 78.1 36.9 55.3





#20
Methylene Chloride
Concen: 1.147 ppbv
RT: 2.075 min Scan# 614
Delta R.T. 0.016 min
Lab File: VL042249.D
Acq: 08 Apr 2025 00:46

Instrument : MSVOA_L
ClientSampleId : SSSG-B10-1-03312025-SPLIT



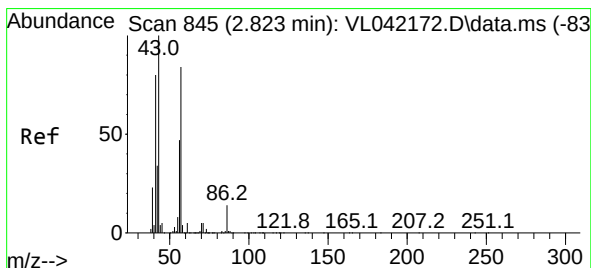
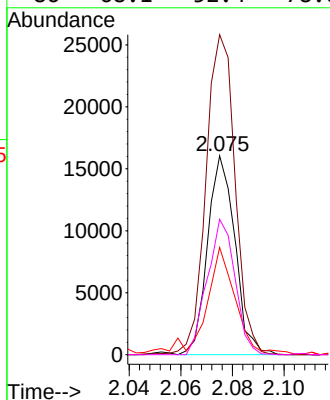
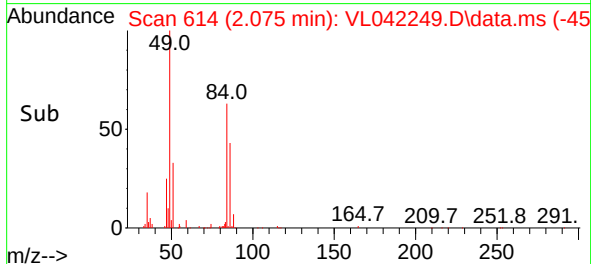
Tgt Ion: 84 Resp: 1181
Ion Ratio Lower Upper
84 100
49 160.5 120.2 180.4
51 52.1 37.4 56.0
86 68.1 52.4 78.6

Manual Integrations
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Reviewed By :Semsettin
Yesilyurt

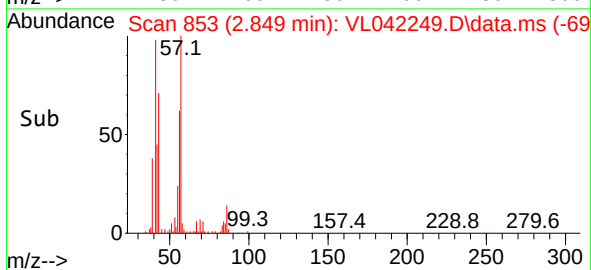
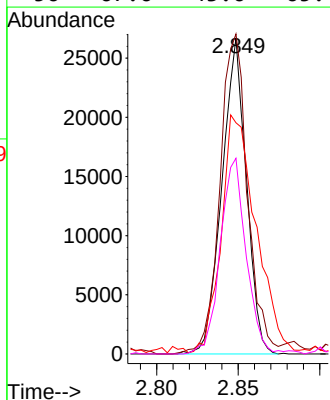
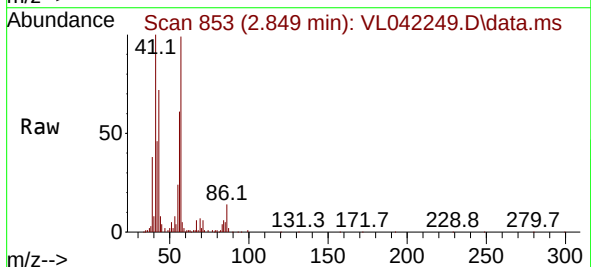
04/08/2025
Supervised By :Mahesh
Dadoda

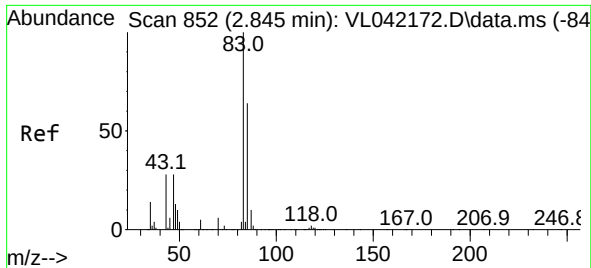
04/09/2025



#26
Hexane
Concen: 1.004 ppbv
RT: 2.849 min Scan# 853
Delta R.T. 0.026 min
Lab File: VL042249.D
Acq: 08 Apr 2025 00:46

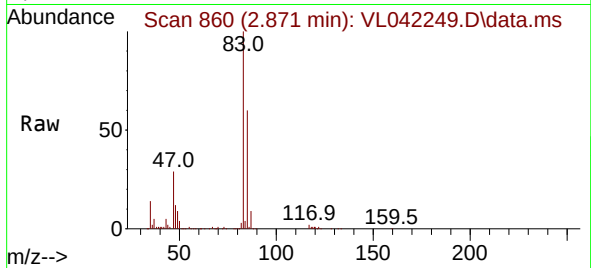
Tgt Ion: 57 Resp: 27836
Ion Ratio Lower Upper
57 100
41 120.4 76.6 114.8#
43 110.3 207.8 311.8#
56 67.6 43.6 65.4#





#29
Chloroform
Concen: 2.356 ppbv
RT: 2.871 min Scan# 80
Delta R.T. 0.026 min
Lab File: VL042249.D
Acq: 08 Apr 2025 00:46

Instrument :
MSVOA_L
ClientSampleId :
SSSG-B10-1-03312025-SPLIT



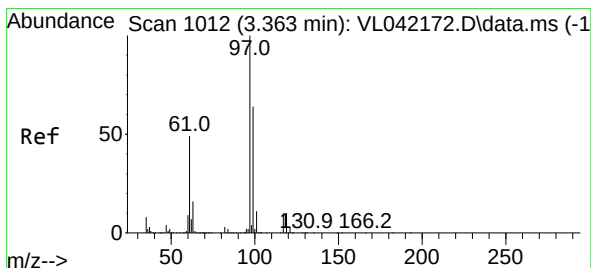
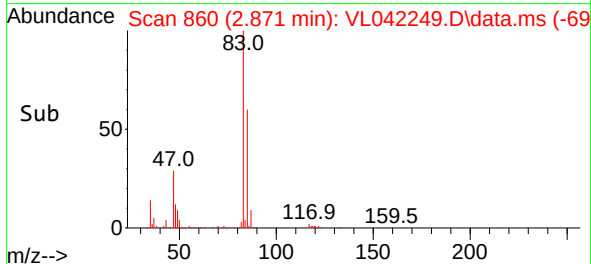
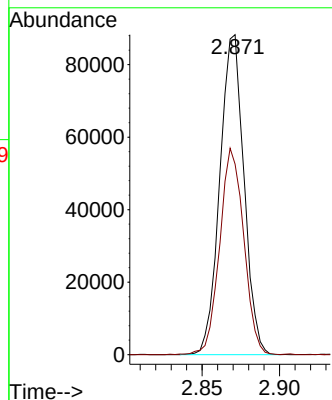
Tgt Ion: 83 Resp: 9558
Ion Ratio Lower Upper
83 100
85 59.5 51.4 77.2

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Reviewed By :Semsettin
Yesilyurt

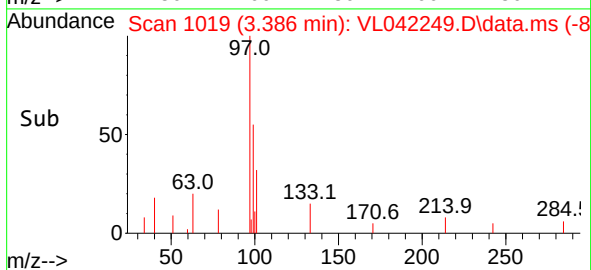
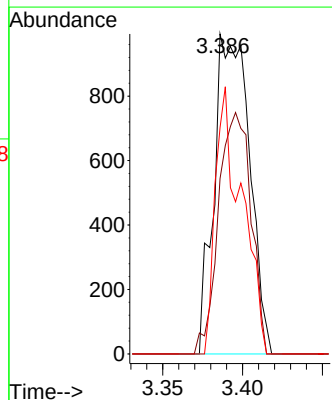
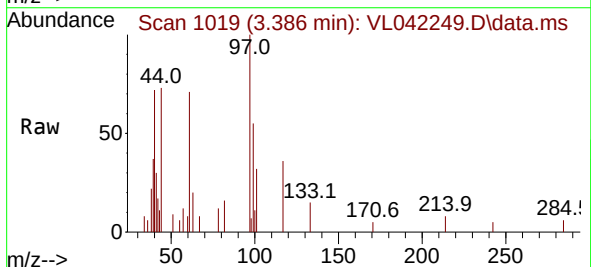
04/08/2025
Supervised By :Mahesh
Dadoda

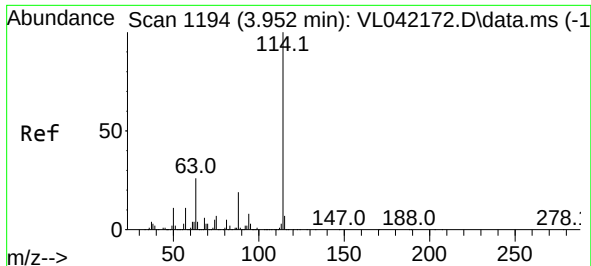
04/09/2025



#32
1,1,1-Trichloroethane
Concen: 0.033 ppbv m
RT: 3.386 min Scan# 1019
Delta R.T. 0.023 min
Lab File: VL042249.D
Acq: 08 Apr 2025 00:46

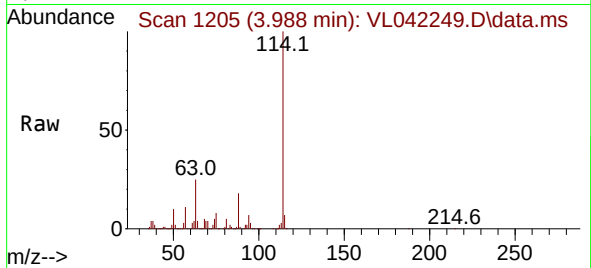
Tgt Ion: 97 Resp: 1528
Ion Ratio Lower Upper
97 100
99 0.0 51.5 77.3#
61 62.4 38.7 58.1#





#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.988 min Scan# 1194
Delta R.T. 0.036 min
Lab File: VL042249.D
Acq: 08 Apr 2025 00:46

Instrument : MSVOA_L
ClientSampleId : SSSG-B10-1-03312025-SPLIT



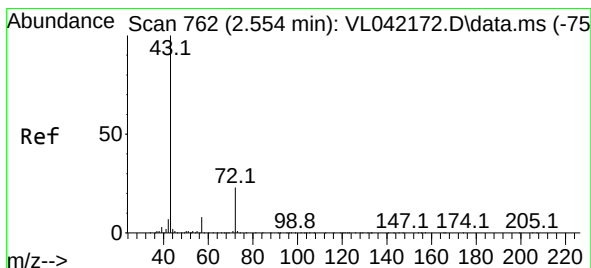
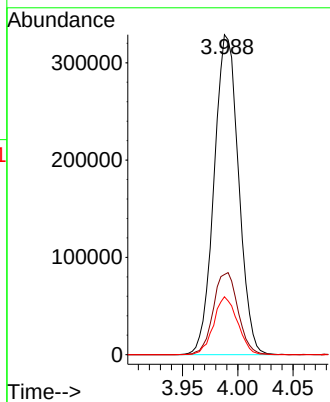
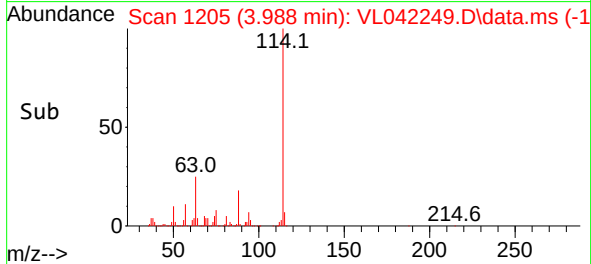
Tgt Ion:114 Resp: 506590
Ion Ratio Lower Upper
114 100
63 26.0 20.7 31.1
88 17.7 15.0 22.4

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Reviewed By :Semsettin
Yesilyurt

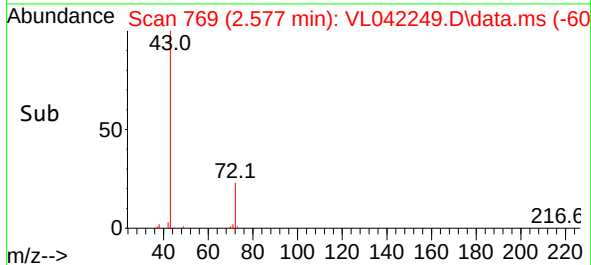
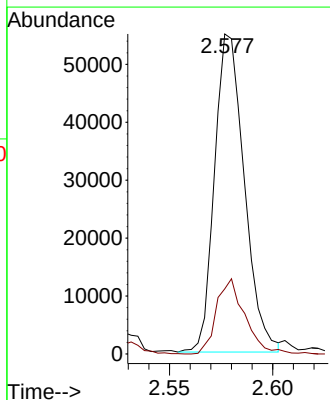
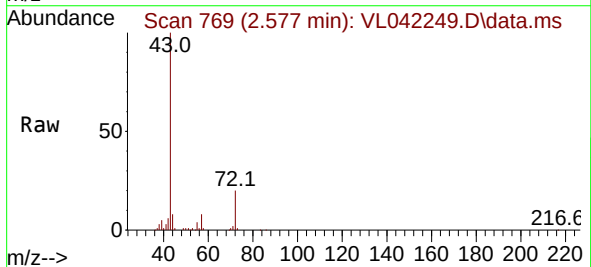
04/08/2025
Supervised By :Mahesh
Dadoda

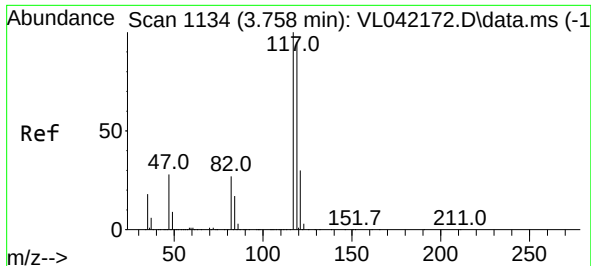
04/09/2025



#34
2-Butanone
Concen: 1.500 ppbv
RT: 2.577 min Scan# 769
Delta R.T. 0.023 min
Lab File: VL042249.D
Acq: 08 Apr 2025 00:46

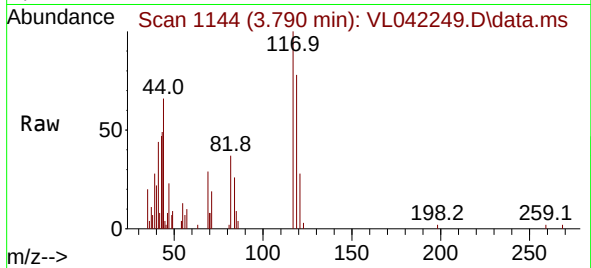
Tgt Ion: 43 Resp: 55098
Ion Ratio Lower Upper
43 100
72 22.7 18.2 27.2





#35
Carbon Tetrachloride
Concen: 0.090 ppbv m
RT: 3.790 min Scan# 1134
Delta R.T. 0.032 min
Lab File: VL042249.D
Acq: 08 Apr 2025 00:46

Instrument : MSVOA_L
ClientSampleId : SSSG-B10-1-03312025-SPLIT



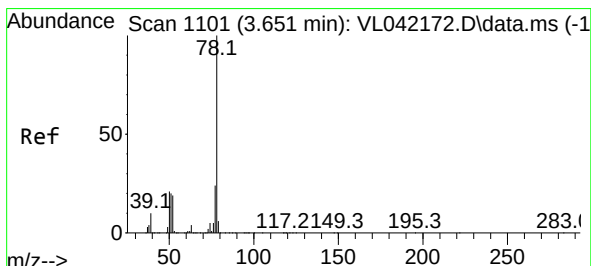
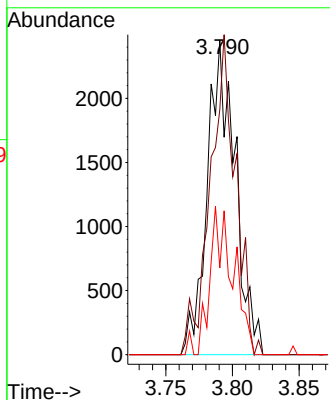
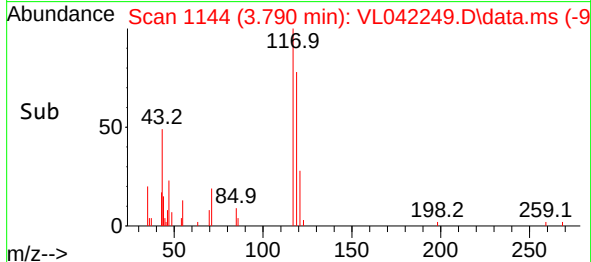
Tgt Ion: 117 Resp: 356
Ion Ratio Lower Upper
117 100
119 77.9 76.2 114.2
121 27.6 24.2 36.4

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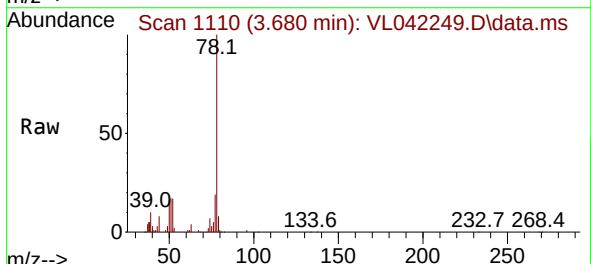
Reviewed By : Semsettin
Yesilyurt

04/08/2025
Supervised By : Mahesh
Dadoda

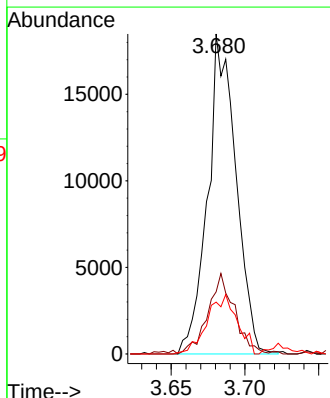
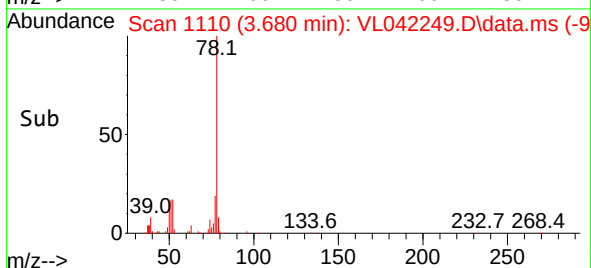
04/09/2025

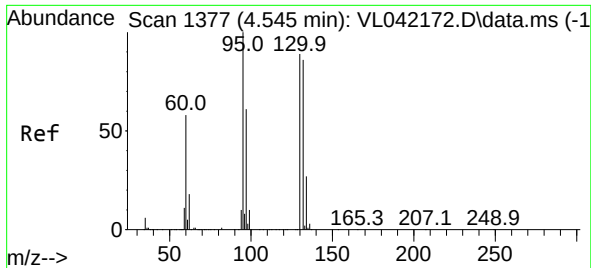


#36
Benzene
Concen: 0.492 ppbv
RT: 3.680 min Scan# 1110
Delta R.T. 0.029 min
Lab File: VL042249.D
Acq: 08 Apr 2025 00:46



Tgt Ion: 78 Resp: 24686
Ion Ratio Lower Upper
78 100
77 19.4 19.1 28.7
50 15.7 16.6 24.8#





#38

Trichloroethene

Concen: 0.263 ppbv m

RT: 4.583 min Scan# 1418

Delta R.T. 0.039 min

Lab File: VL042249.D

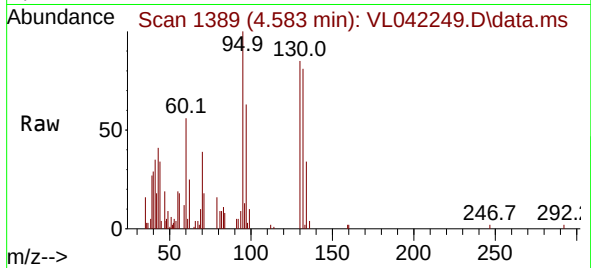
Acq: 08 Apr 2025 00:46

Instrument :

MSVOA_L

ClientSampleId :

SSSG-B10-1-03312025-SPLIT



Tgt Ion:130 Resp: 5510

Ion Ratio Lower Upper

130 100

95 117.0 89.8 134.8

132 94.2 77.4 116.2

97 73.8 55.1 82.7

Manual Integrations

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Reviewed By :Semsettin

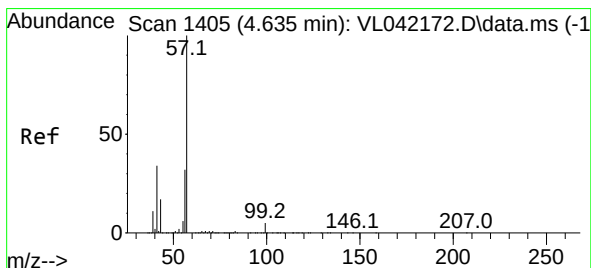
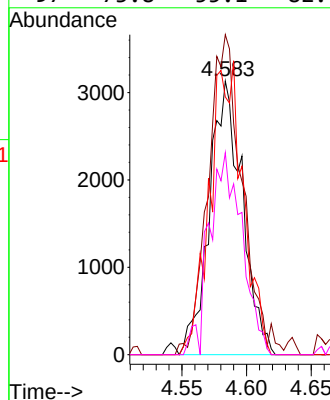
Yesilyurt

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Dadoda

04/09/2025



#44

2,2,4-Trimethylpentane

Concen: 0.290 ppbv m

RT: 4.677 min Scan# 1418

Delta R.T. 0.042 min

Lab File: VL042249.D

Acq: 08 Apr 2025 00:46

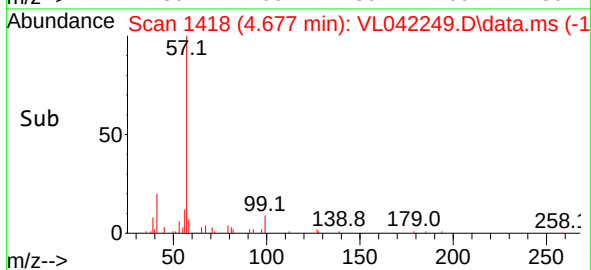
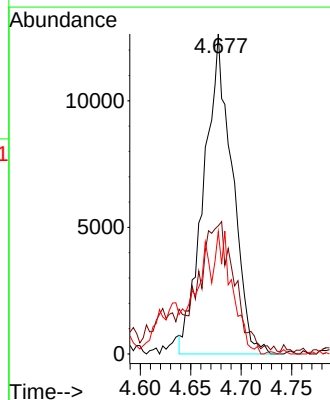
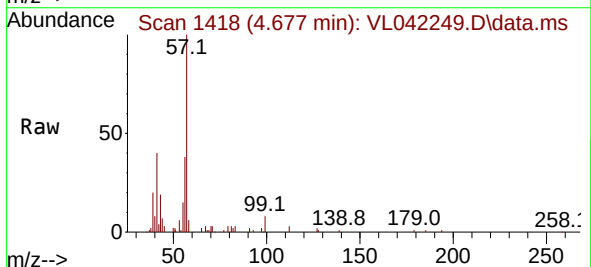
Tgt Ion: 57 Resp: 24653

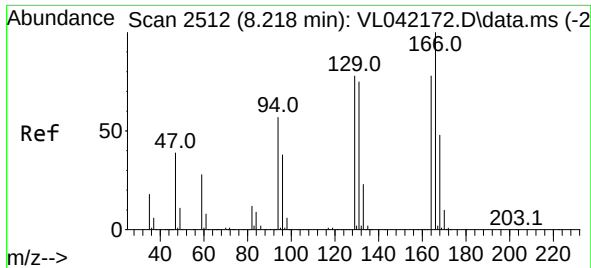
Ion Ratio Lower Upper

57 100

41 63.7 26.8 40.2#

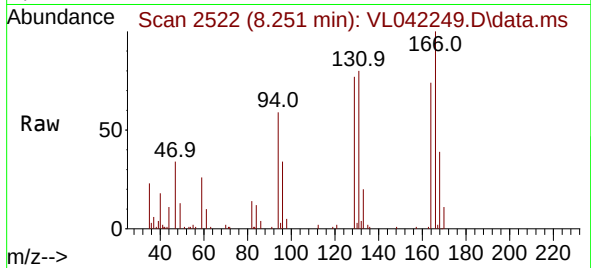
56 57.4 25.6 38.4#





#52
Tetrachloroethene
Concen: 0.747 ppbv m
RT: 8.251 min Scan# 2127
Delta R.T. 0.032 min
Lab File: VL042249.D
Acq: 08 Apr 2025 00:46

Instrument : MSVOA_L
ClientSampleId : SSSG-B10-1-03312025-SPLIT



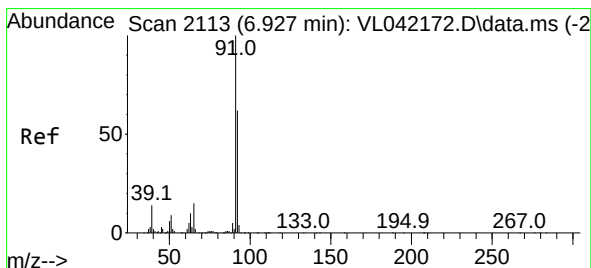
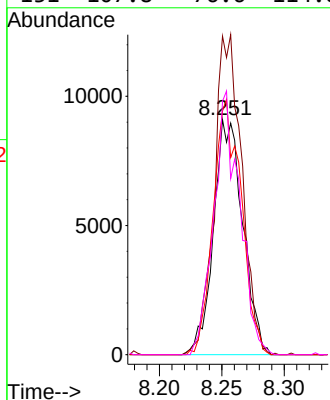
Tgt Ion:164 Resp: 14870
Ion Ratio Lower Upper
164 100
166 135.5 102.5 153.7
129 103.7 79.8 119.8
131 107.8 76.6 114.8

Manual Integrations
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Reviewed By :Semsettin
Yesilyurt

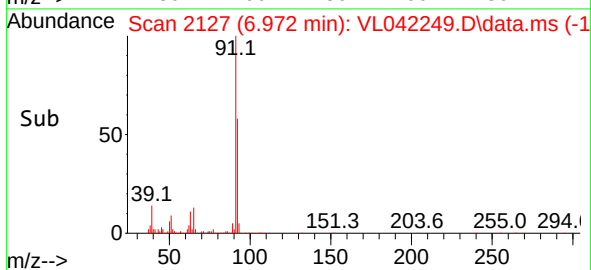
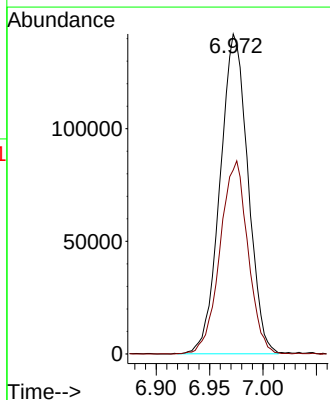
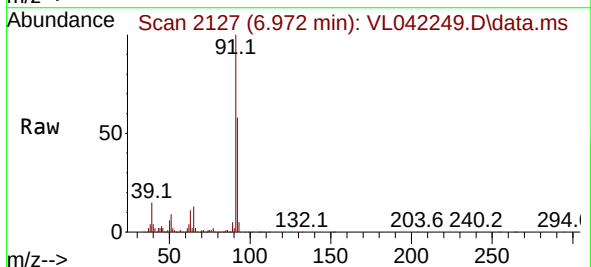
04/08/2025
Supervised By :Mahesh
Dadoda

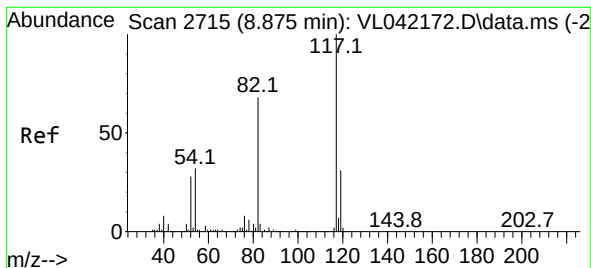
04/09/2025



#53
Toluene
Concen: 4.334 ppbv
RT: 6.972 min Scan# 2127
Delta R.T. 0.045 min
Lab File: VL042249.D
Acq: 08 Apr 2025 00:46

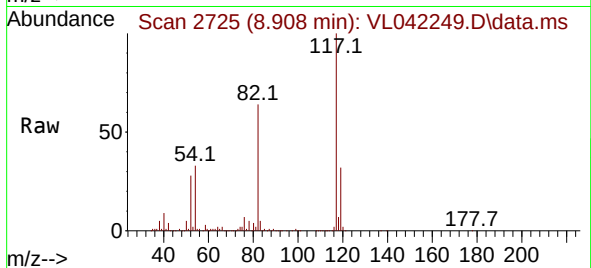
Tgt Ion: 91 Resp: 258006
Ion Ratio Lower Upper
91 100
92 60.6 48.4 72.6





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.908 min Scan# 21
Delta R.T. 0.032 min
Lab File: VL042249.D
Acq: 08 Apr 2025 00:46

Instrument :
MSVOA_L
ClientSampleId :
SSSG-B10-1-03312025-SPLIT



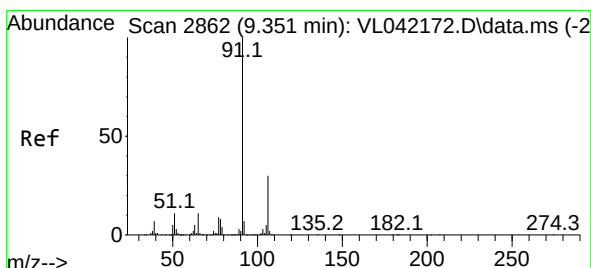
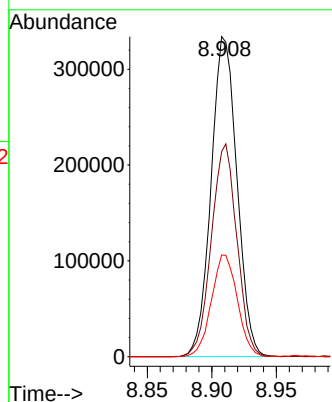
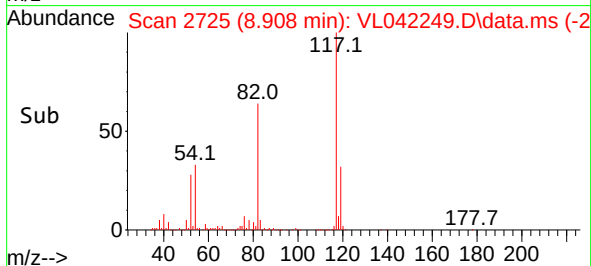
Tgt Ion: 117 Resp: 465539
Ion Ratio Lower Upper
117 100
82 65.7 55.8 83.6
119 32.0 25.5 38.3

Manual Integrations
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Reviewed By :Semsettin
Yesilyurt

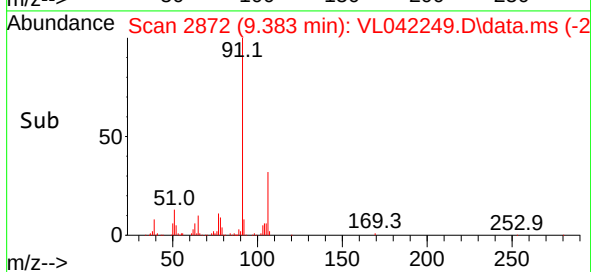
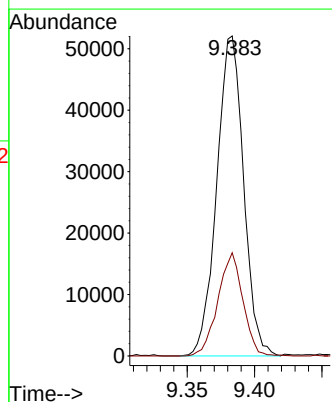
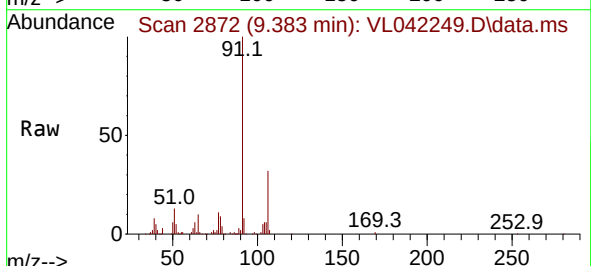
04/08/2025
Supervised By :Mahesh
Dadoda

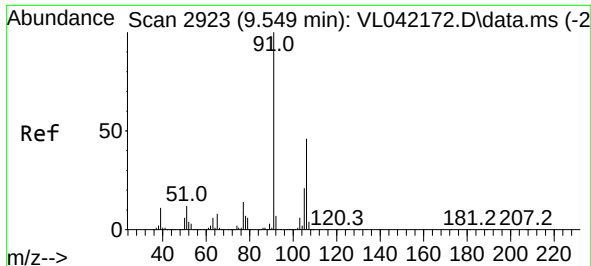
04/09/2025



#58
Ethyl Benzene
Concen: 0.872 ppbv
RT: 9.383 min Scan# 2872
Delta R.T. 0.032 min
Lab File: VL042249.D
Acq: 08 Apr 2025 00:46

Tgt Ion: 91 Resp: 72131
Ion Ratio Lower Upper
91 100
106 32.2 24.2 36.2





#59

m/p-Xylene

Concen: 4.307 ppbv

RT: 9.558 min Scan# 2923

Delta R.T. 0.010 min

Lab File: VL042249.D

Acq: 08 Apr 2025 00:46

Instrument :

MSVOA_L

ClientSampleId :

SSSG-B10-1-03312025-SPLIT

Tgt Ion: 91 Resp: 284370

Ion Ratio Lower Upper

91 100

106 45.7 36.4 54.6

Manual Integrations

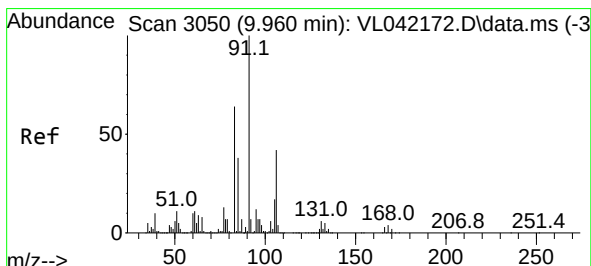
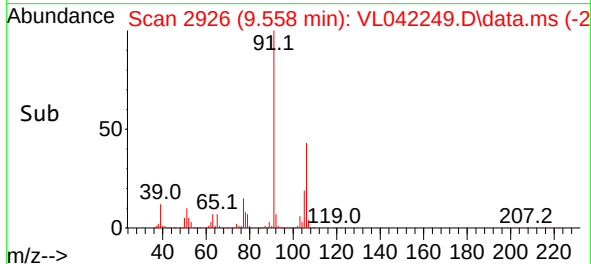
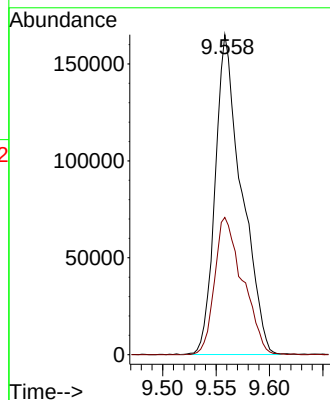
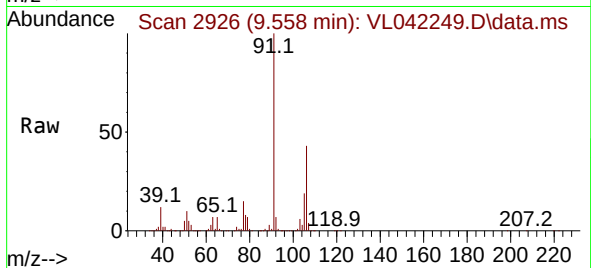
APPROVED

Reviewed By :Semsettin
Yesilyurt

04/08/2025

Supervised By :Mahesh
Dadoda

04/09/2025



#60

o-Xylene

Concen: 1.790 ppbv

RT: 9.992 min Scan# 3060

Delta R.T. 0.032 min

Lab File: VL042249.D

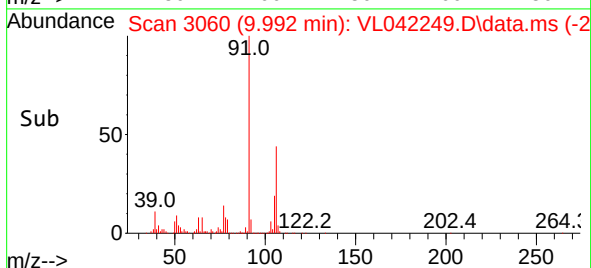
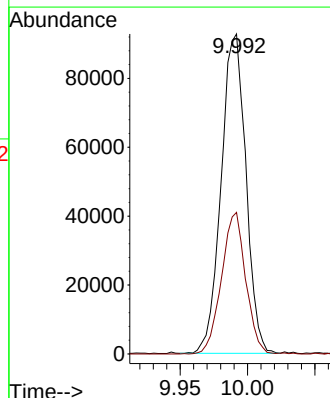
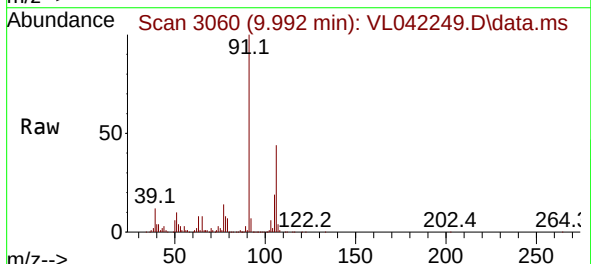
Acq: 08 Apr 2025 00:46

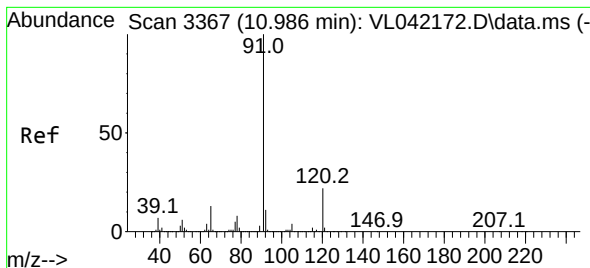
Tgt Ion: 91 Resp: 118466

Ion Ratio Lower Upper

91 100

106 43.5 20.8 62.5





#64
n-propylbenzene
Concen: 0.233 ppbv
RT: 11.011 min Scan# 3186
Delta R.T. 0.026 min
Lab File: VL042249.D
Acq: 08 Apr 2025 00:46

Instrument : MSVOA_L
ClientSampleId : SSSG-B10-1-03312025-SPLIT

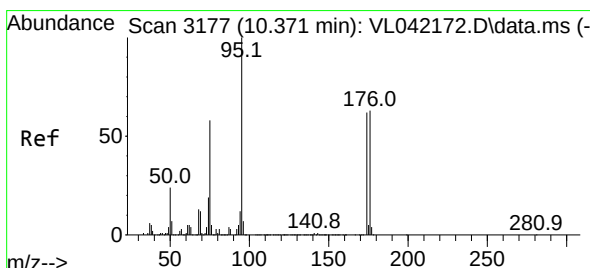
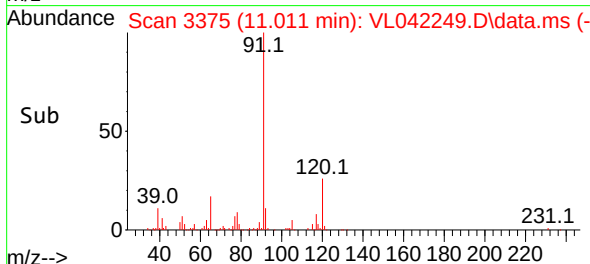
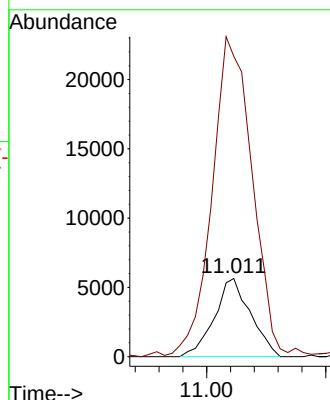
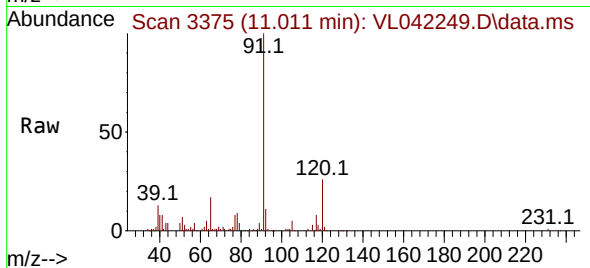
Tgt Ion: 120 Resp: 5944
Ion Ratio Lower Upper
120 100
91 461.4 376.9 565.3

Manual Integrations
APPROVED

Reviewed By : Semsettin
Yesilyurt

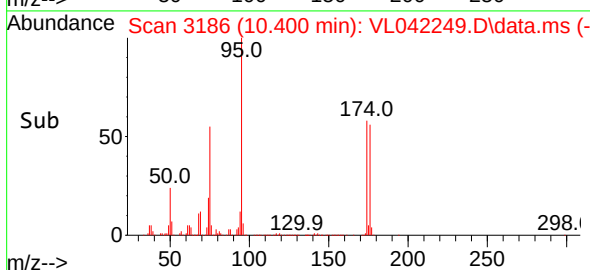
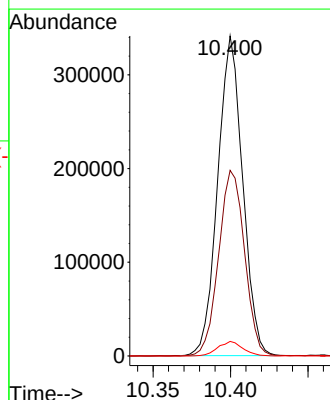
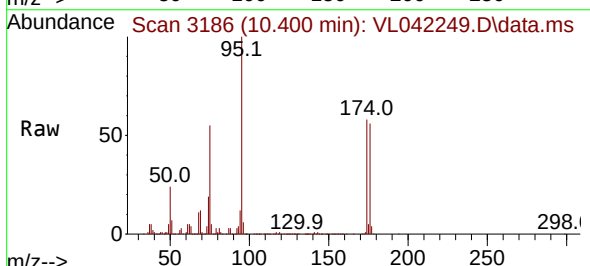
04/08/2025
Supervised By : Mahesh
Dadoda

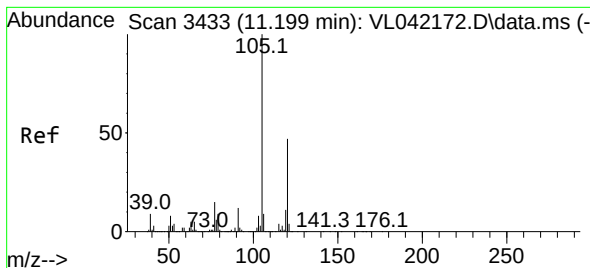
04/09/2025



#68
1-Bromo-4-Fluorobenzene
Concen: 9.981 ppbv
RT: 10.400 min Scan# 3186
Delta R.T. 0.029 min
Lab File: VL042249.D
Acq: 08 Apr 2025 00:46

Tgt Ion: 95 Resp: 381596
Ion Ratio Lower Upper
95 100
174 60.6 50.6 76.0
175 4.6 3.8 5.6





#73

1,3,5-Trimethylbenzene

Concen: 0.435 ppbv

RT: 11.225 min Scan# 3441

Delta R.T. 0.026 min

Lab File: VL042249.D

Acq: 08 Apr 2025 00:46

Instrument :

MSVOA_L

ClientSampleId :

SSSG-B10-1-03312025-SPLIT

Tgt Ion:105 Resp: 31320
 Ion Ratio Lower Upper
 105 100
 120 46.6 37.4 56.0

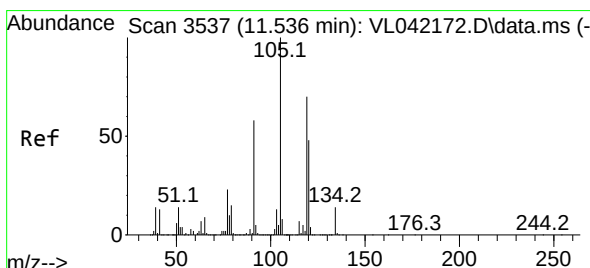
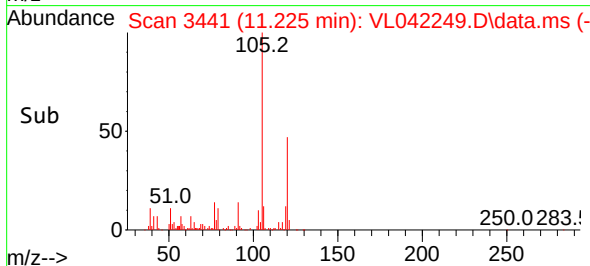
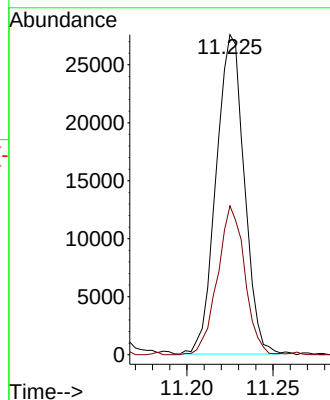
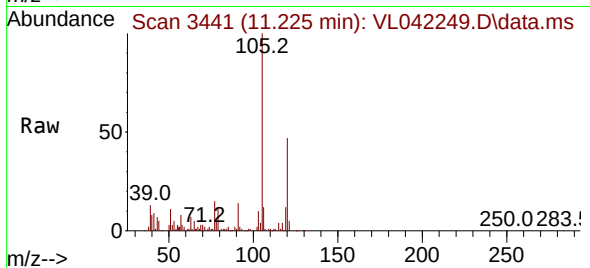
Manual Integrations
 APPROVED

Reviewed By :Semsettin
 Yesilyurt

04/08/2025

Supervised By :Mahesh
 Dadoda

04/09/2025



#74

1,2,4-Trimethylbenzene

Concen: 1.746 ppbv

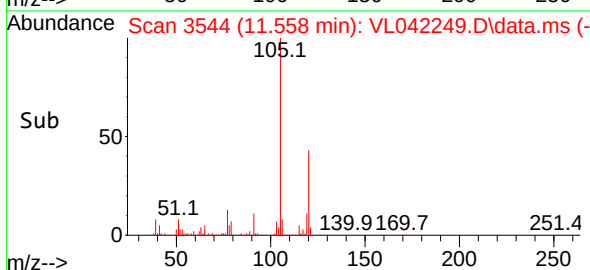
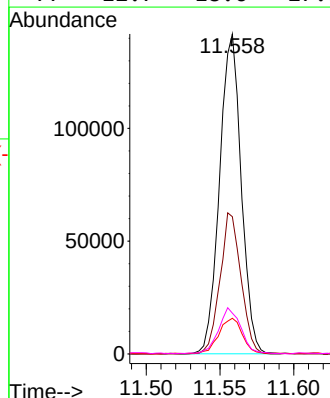
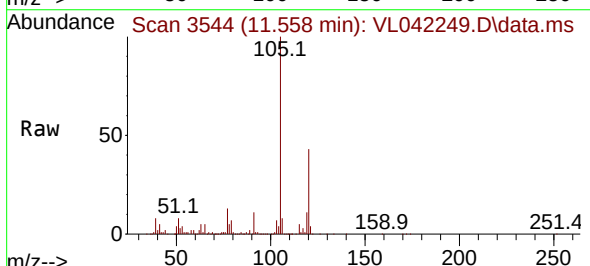
RT: 11.558 min Scan# 3544

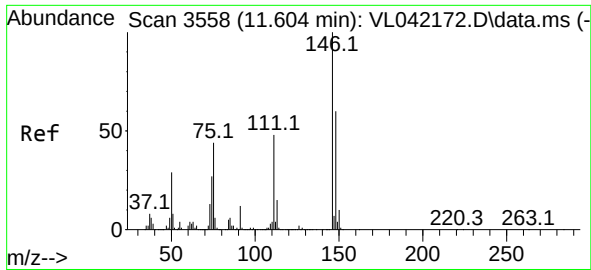
Delta R.T. 0.023 min

Lab File: VL042249.D

Acq: 08 Apr 2025 00:46

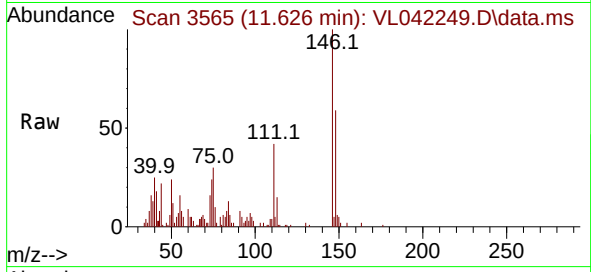
Tgt Ion:105 Resp: 144819
 Ion Ratio Lower Upper
 105 100
 120 42.9 38.6 58.0
 91 11.0 46.2 69.2#
 77 12.7 18.6 27.8#





#75
1,3-Dichlorobenzene
Concen: 0.161 ppbv
RT: 11.626 min Scan# 31
Delta R.T. 0.023 min
Lab File: VL042249.D
Acq: 08 Apr 2025 00:46

Instrument :
MSVOA_L
ClientSampleId :
SSSG-B10-1-03312025-SPLIT



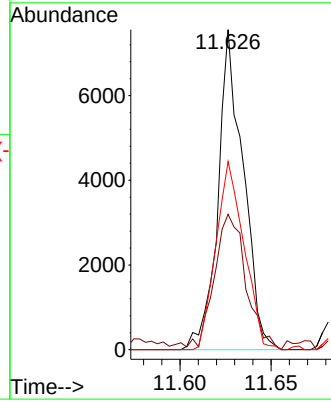
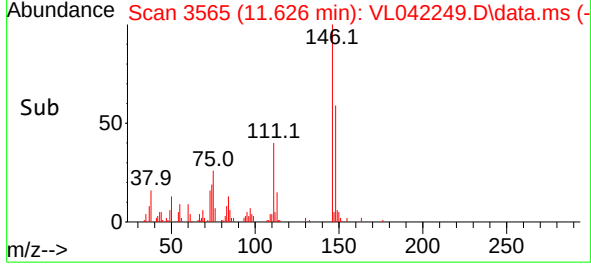
Tgt Ion:	146	Resp:	730
Ion Ratio	Lower	Upper	
146	100		
111	56.0	23.8	71.2
148	65.5	31.9	95.9

Manual Integrations
APPROVED

Reviewed By :Semsettin
Yesilyurt

04/08/2025
Supervised By :Mahesh
Dadoda

04/09/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040725\
 Data File : VL042249.D
 Acq On : 08 Apr 2025 00:46
 Operator : SY/MD
 Sample : Q1725-07
 Misc : 400mL/MSVOA_L
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SSSG-B10-1-03312025-SPLIT

Integration Parameters: RTEINT.P

Integrator: RTE

Smoothing : ON

Filtering: 5

Sampling : 3

Min Area: 3 % of largest Peak

Start Thrs: 0.001

Max Peaks: 100

Stop Thrs : 0

Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >

Peak separation: 0

Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M

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

Signal : TIC: VL042249.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.434	412	416	418	rBV	4486978	3373918	100.00%	14.250%
2	1.444	418	419	423	rVB3	4212355	2026291	60.06%	8.558%
3	1.496	431	435	437	rBV	240051	106170	3.15%	0.448%
4	1.567	453	457	464	rVB	441574	245078	7.26%	1.035%
5	1.612	466	471	474	rVV	342644	202008	5.99%	0.853%
6	1.632	474	477	481	rVB	130427	68573	2.03%	0.290%
7	1.732	504	508	515	rBV	728075	425600	12.61%	1.797%
8	1.845	539	543	552	rVB	1765109	1267337	37.56%	5.353%
9	1.897	552	559	564	rBV	640910	466815	13.84%	1.972%
10	1.978	579	584	589	rVB	77009	56416	1.67%	0.238%
11	2.056	604	608	611	rBV	78011	65567	1.94%	0.277%
12	2.075	611	614	619	rVB	84602	61409	1.82%	0.259%
13	2.467	726	735	738	rBV4	36597	50644	1.50%	0.214%
14	2.493	738	743	749	rVB	123318	117389	3.48%	0.496%
15	2.577	764	769	780	rVB	88857	90589	2.68%	0.383%
16	2.645	780	790	798	rVB2	85877	97359	2.89%	0.411%
17	2.807	832	840	847	rBV	718916	747553	22.16%	3.157%
18	2.849	847	853	855	rVV	146296	154505	4.58%	0.653%
19	2.868	855	859	867	rVB2	248249	275835	8.18%	1.165%
20	3.256	968	979	988	rBV3	59607	83892	2.49%	0.354%
21	3.680	1099	1110	1118	rBV2	42242	65546	1.94%	0.277%
22	3.723	1118	1123	1134	rVB3	33595	50474	1.50%	0.213%
23	3.988	1193	1205	1219	rBV	873321	1356795	40.21%	5.730%
24	4.085	1222	1235	1244	rVV2	79774	156754	4.65%	0.662%
25	4.127	1244	1248	1262	rVB5	31384	49448	1.47%	0.209%
26	4.305	1289	1303	1315	rBV5	83492	167726	4.97%	0.708%
27	4.677	1409	1418	1431	rVB3	36104	75571	2.24%	0.319%
28	5.020	1510	1524	1538	rBV2	50650	110435	3.27%	0.466%
29	5.713	1726	1738	1752	rVB9	29487	78664	2.33%	0.332%
30	6.972	2110	2127	2143	rBV	379540	735422	21.80%	3.106%
31	7.412	2250	2263	2272	rBV5	37475	82526	2.45%	0.349%
32	7.629	2319	2330	2336	rBV6	47478	93290	2.77%	0.394%
33	7.726	2349	2360	2371	rVB5	50761	91626	2.72%	0.387%
34	8.254	2512	2523	2533	rBV4	87851	147562	4.37%	0.623%
35	8.328	2540	2546	2563	rVB5	57078	114162	3.38%	0.482%
36	8.911	2711	2726	2736	rBV	1161602	1662108	49.26%	7.020%

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040725\
 Data File : VL042249.D
 Acq On : 08 Apr 2025 00:46
 Operator : SY/MD
 Sample : Q1725-07
 Misc : 400mL/MSVOA_L
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SSSG-B10-1-03312025-SPLIT

Integration Parameters: RTEINT.P

Integrator: RTE

Smoothing : ON

Filtering: 5

Sampling : 3

Min Area: 3 % of largest Peak

Start Thrs: 0.001

Max Peaks: 100

Stop Thrs : 0

Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >

Peak separation: 0

Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M

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

37	8.966	2736	2743	2750	rVB3	46950	64760	1.92%	0.274%
38	9.173	2797	2807	2820	rBV4	40076	72100	2.14%	0.305%
39	9.383	2862	2872	2885	rBV	134223	199868	5.92%	0.844%
40	9.558	2915	2926	2944	rBV2	470048	846828	25.10%	3.577%
41	9.746	2972	2984	2985	rBV6	33062	44044	1.31%	0.186%
42	9.759	2985	2988	3000	rVB3	38152	44495	1.32%	0.188%
43	9.882	3014	3026	3037	rVB3	38649	63567	1.88%	0.268%
44	9.992	3047	3060	3074	rBV2	278248	404653	11.99%	1.709%
45	10.400	3169	3186	3197	rBV	1557839	1842098	54.60%	7.780%
46	10.830	3312	3319	3325	rBV5	35355	47032	1.39%	0.199%
47	10.879	3328	3334	3343	rVB5	47064	61034	1.81%	0.258%
48	11.008	3366	3374	3389	rVB	59290	83459	2.47%	0.352%
49	11.118	3399	3408	3413	rBV	211456	235255	6.97%	0.994%
50	11.144	3413	3416	3424	rVB2	95405	98880	2.93%	0.418%
51	11.225	3431	3441	3449	rVB2	97470	113775	3.37%	0.481%
52	11.361	3477	3483	3489	rVB2	79099	86935	2.58%	0.367%
53	11.555	3532	3543	3554	rBV	431244	525438	15.57%	2.219%
54	11.626	3556	3565	3574	rVB4	43678	58886	1.75%	0.249%
55	11.775	3604	3611	3614	rBV6	36956	50669	1.50%	0.214%
56	11.791	3614	3616	3624	rVB4	59723	55627	1.65%	0.235%
57	11.898	3641	3649	3657	rBV2	72306	78535	2.33%	0.332%
58	12.063	3695	3700	3708	rVB4	83101	85690	2.54%	0.362%
59	12.248	3750	3757	3761	rBV	265056	286190	8.48%	1.209%
60	12.270	3761	3764	3774	rVV2	153338	203023	6.02%	0.857%
61	12.313	3774	3777	3789	rVB3	40389	49417	1.46%	0.209%
62	12.458	3815	3822	3837	rVB2	98225	147007	4.36%	0.621%
63	12.529	3837	3844	3851	rBV4	66968	96220	2.85%	0.406%
64	12.607	3862	3868	3878	rVB3	38273	52495	1.56%	0.222%
65	12.691	3880	3894	3901	rBV	388158	464048	13.75%	1.960%
66	13.403	4103	4114	4123	rBV	2052236	2131212	63.17%	9.001%
67	15.258	4678	4687	4695	rBV4	51622	63078	1.87%	0.266%

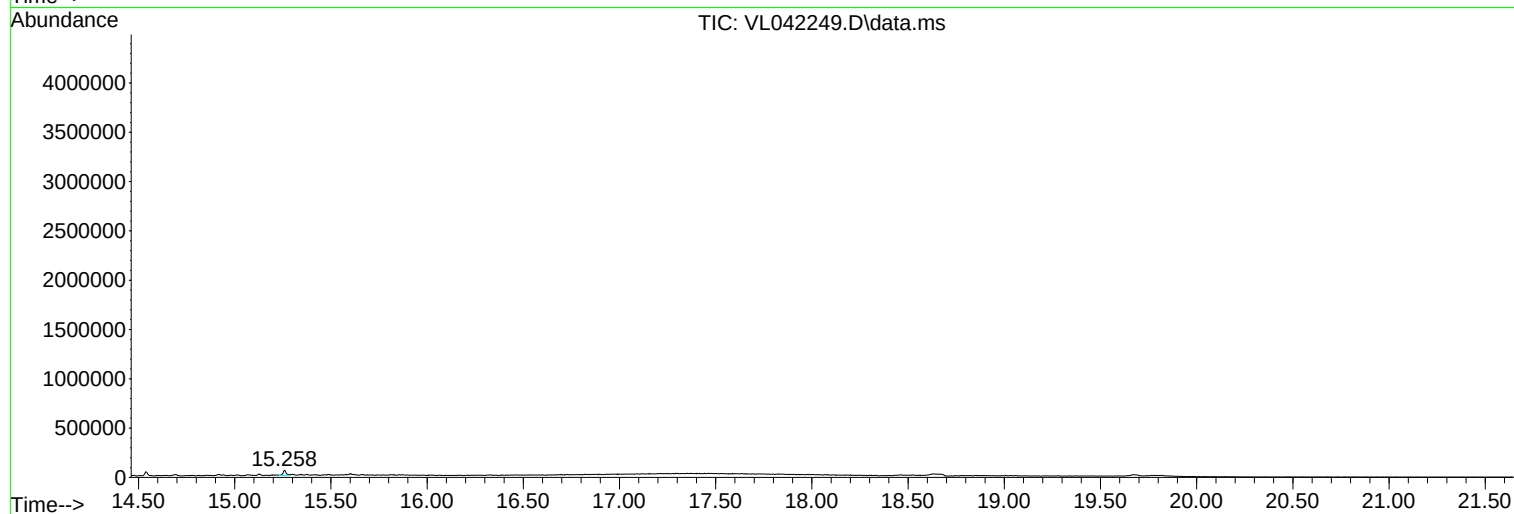
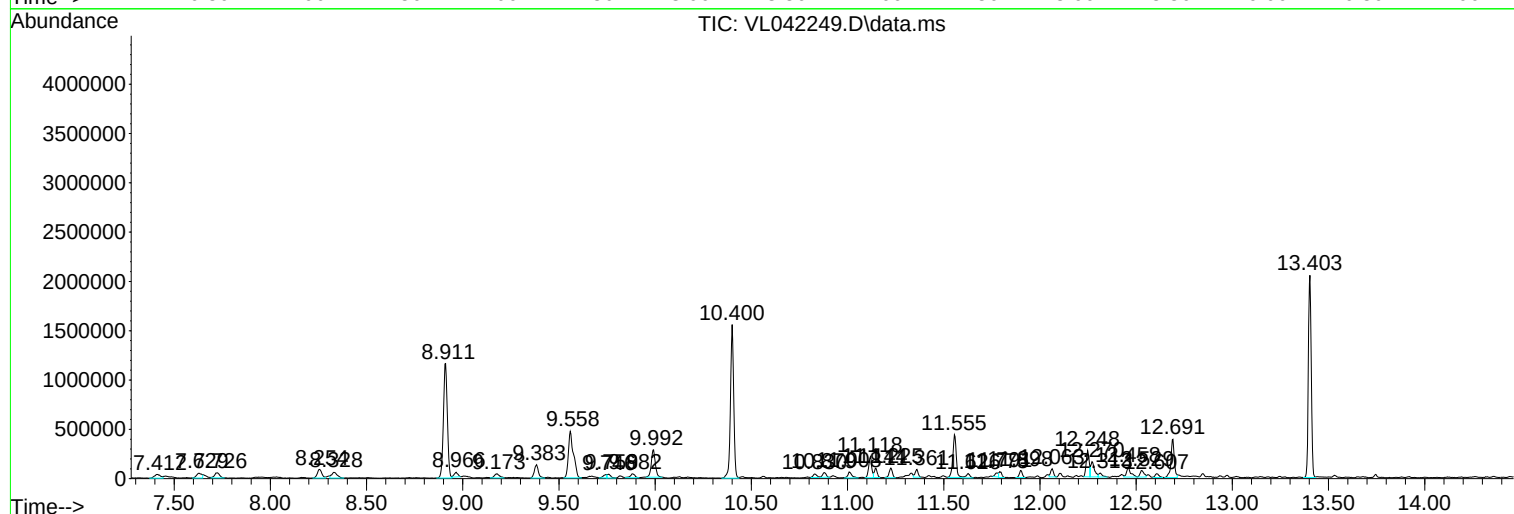
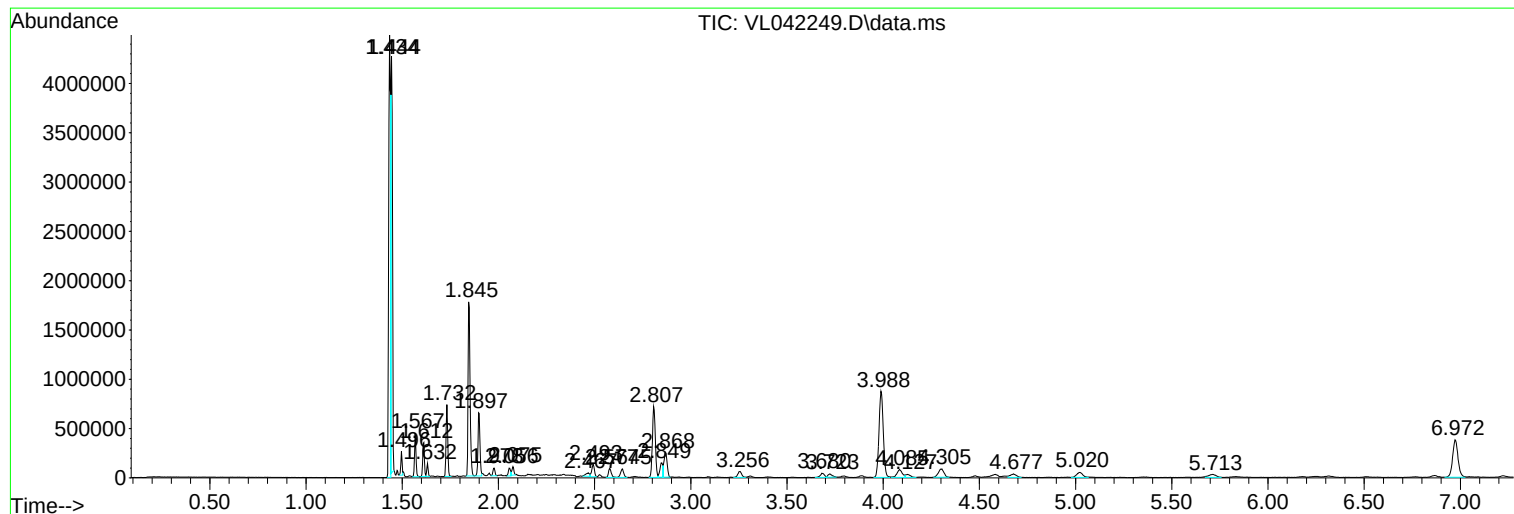
Sum of corrected areas: 23677375

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040725\
Data File : VL042249.D
Acq On : 08 Apr 2025 00:46
Operator : SY/MD
Sample : Q1725-07
Misc : 400mL/MSVOA_L
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
SSSG-B10-1-03312025-SPLIT

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040725\
Data File : VL042249.D
Acq On : 08 Apr 2025 00:46
Operator : SY/MD
Sample : Q1725-07
Misc : 400mL/MSVOA_L
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
SSSG-B10-1-03312025-SPLIT

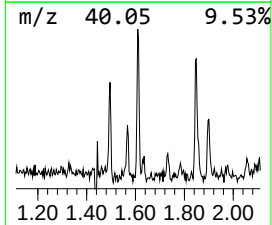
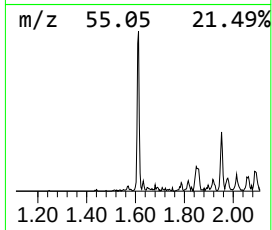
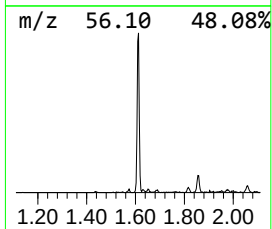
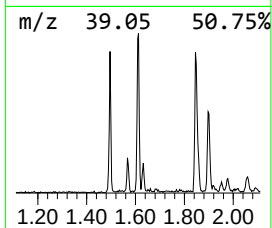
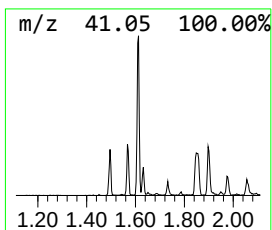
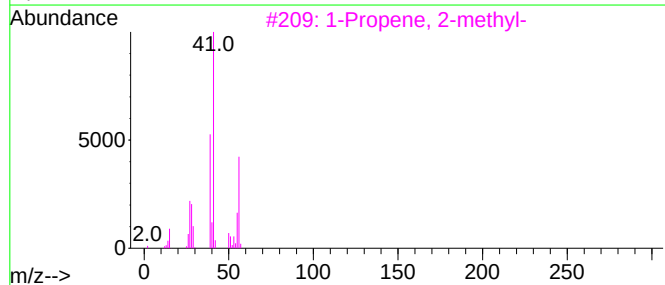
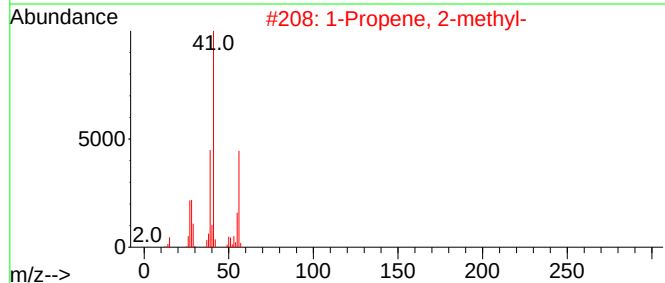
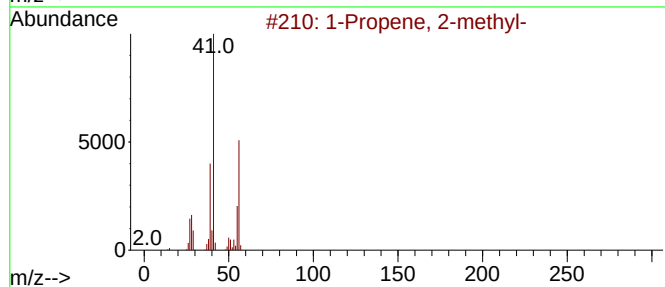
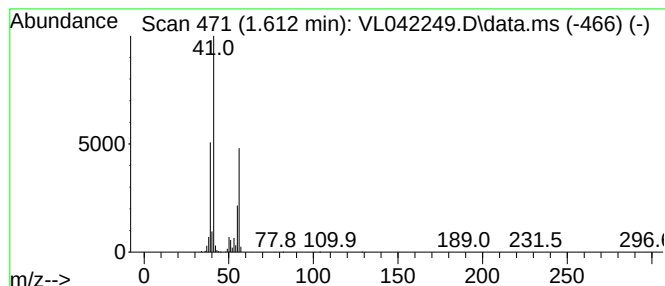
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

Peak Number 3 1-Propene, 2-methyl- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
1.612	2.70 ppbv	202008	Bromochloromethane	2.807

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Propene, 2-methyl-			56	C4H8	000115-11-7	90
2	1-Propene, 2-methyl-			56	C4H8	000115-11-7	83
3	1-Propene, 2-methyl-			56	C4H8	000115-11-7	72
4	2-Butene			56	C4H8	000107-01-7	72
5	Cyclobutane			56	C4H8	000287-23-0	49



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040725\
Data File : VL042249.D
Acq On : 08 Apr 2025 00:46
Operator : SY/MD
Sample : Q1725-07
Misc : 400mL/MSVOA_L
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
SSSG-B10-1-03312025-SPLIT

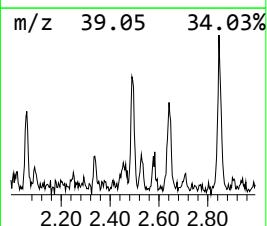
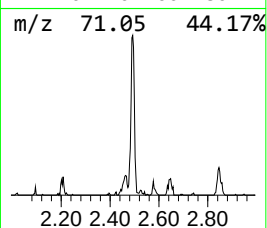
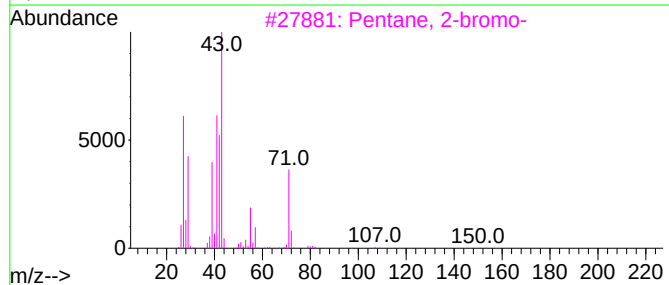
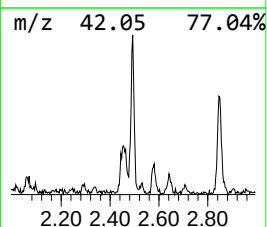
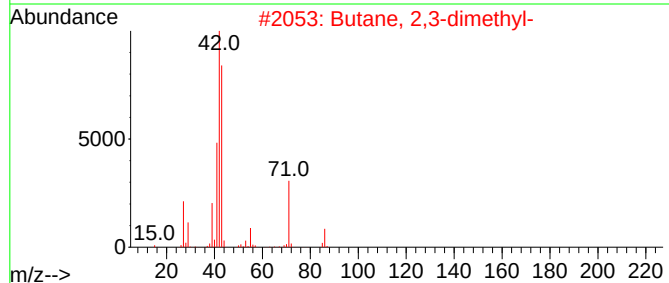
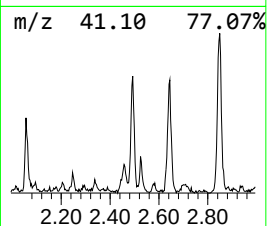
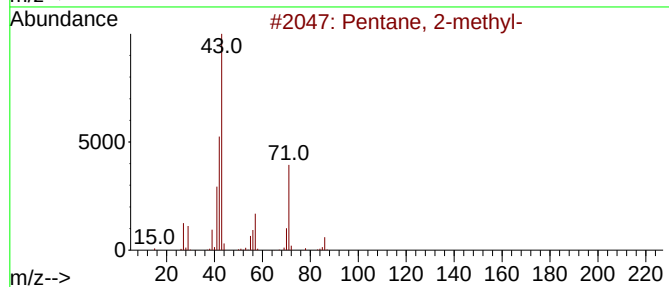
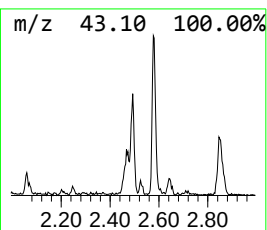
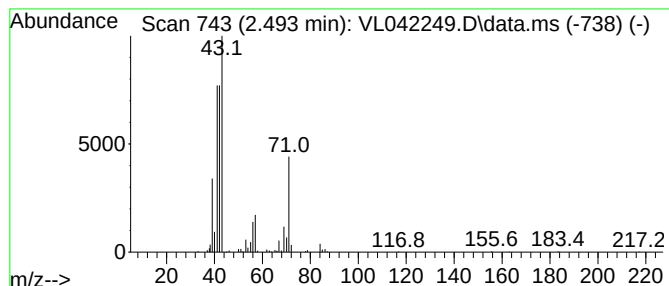
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Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

Peak Number 4 Pentane, 2-methyl- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.493	1.57 ppbv	117389	Bromochloromethane	2.807

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Pentane, 2-methyl-	86	C6H14	000107-83-5	64
2			Butane, 2,3-dimethyl-	86	C6H14	000079-29-8	53
3			Pentane, 2-bromo-	150	C5H11Br	000107-81-3	40
4			Pentane, 2-methyl-	86	C6H14	000107-83-5	39
5			Pentane, 2-methyl-	86	C6H14	000107-83-5	39



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040725\
Data File : VL042249.D
Acq On : 08 Apr 2025 00:46
Operator : SY/MD
Sample : Q1725-07
Misc : 400mL/MSVOA_L
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
SSSG-B10-1-03312025-SPLIT

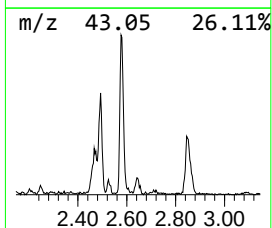
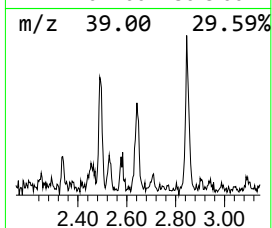
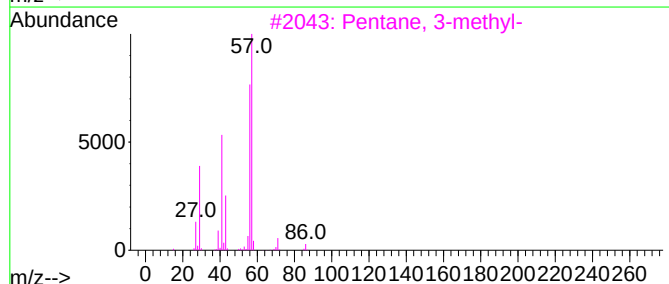
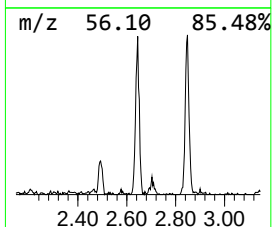
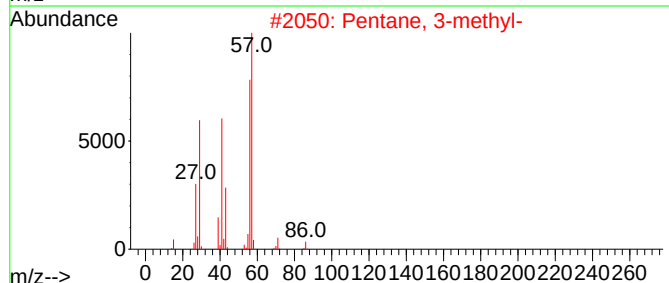
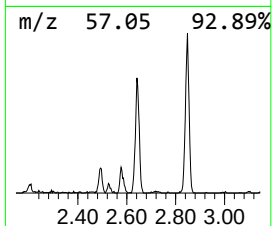
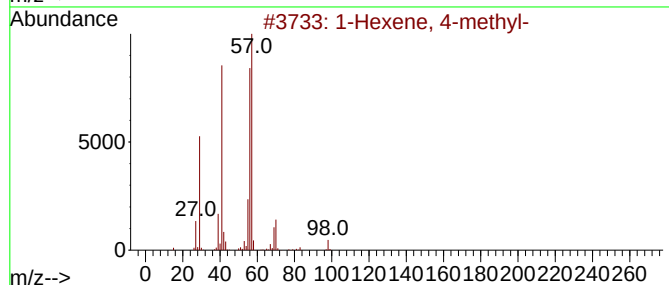
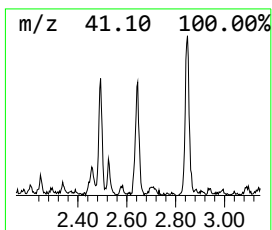
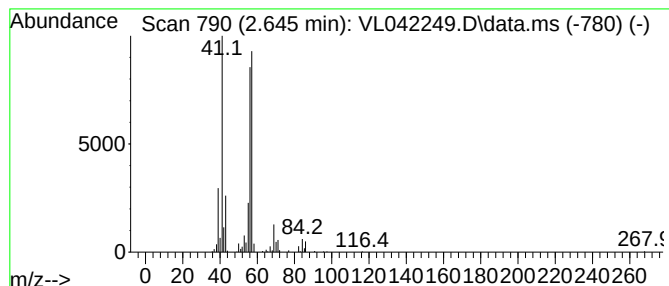
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Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

Peak Number 5 1-Hexene, 4-methyl- Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.645	1.30 ppbv	97359	Bromochloromethane	2.807

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			1-Hexene, 4-methyl-	98	C7H14	003769-23-1	64
2			Pentane, 3-methyl-	86	C6H14	000096-14-0	59
3			Pentane, 3-methyl-	86	C6H14	000096-14-0	59
4			Pentane, 3-methyl-	86	C6H14	000096-14-0	59
5			1-Hexene, 4-methyl-	98	C7H14	003769-23-1	56



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040725\
Data File : VL042249.D
Acq On : 08 Apr 2025 00:46
Operator : SY/MD
Sample : Q1725-07
Misc : 400mL/MSVOA_L
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
SSSG-B10-1-03312025-SPLIT

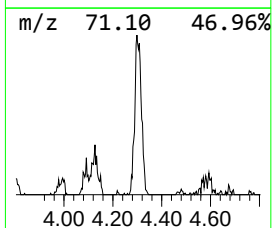
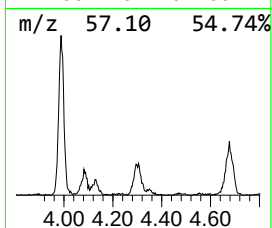
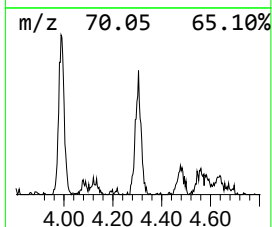
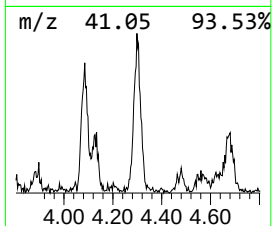
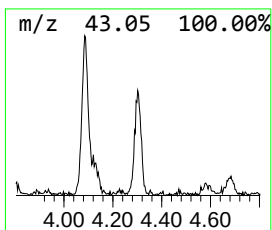
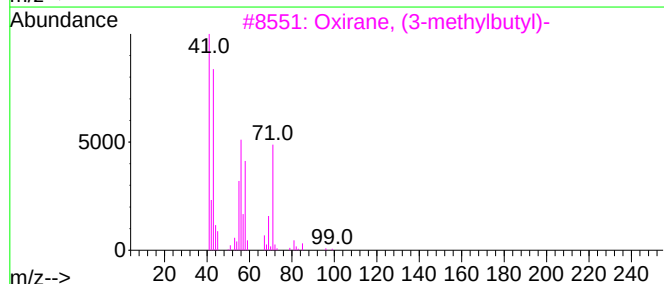
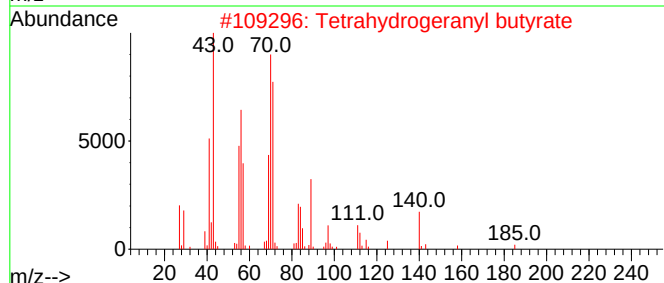
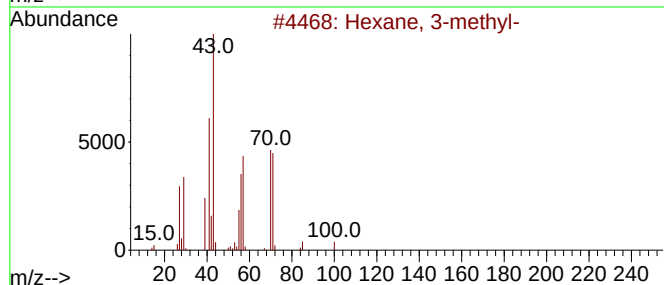
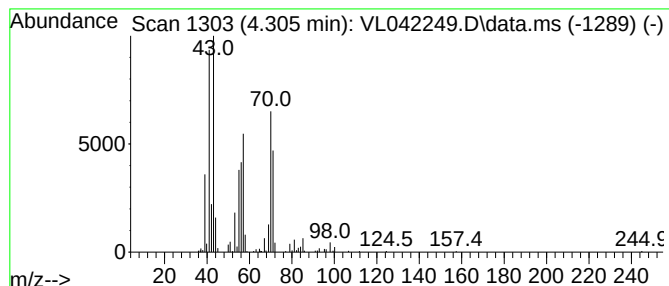
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Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

Peak Number 6 Hexane, 3-methyl- Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.305	1.24 ppbv	167726	1,4-Difluorobenzene	3.988

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Hexane, 3-methyl-	100	C7H16	000589-34-4	72
2			Tetrahydrogeranyl butyrate	228	C14H28O2	1000428-75-4	59
3			Oxirane, (3-methylbutyl)-	114	C7H14O	053229-41-7	53
4			1-Heptene, 4-methyl-	112	C8H16	013151-05-8	50
5			Hexane, 3-ethyl-4-methyl-	128	C9H20	003074-77-9	47



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040725\
Data File : VL042249.D
Acq On : 08 Apr 2025 00:46
Operator : SY/MD
Sample : Q1725-07
Misc : 400mL/MSVOA_L
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
SSSG-B10-1-03312025-SPLIT

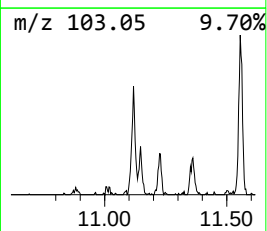
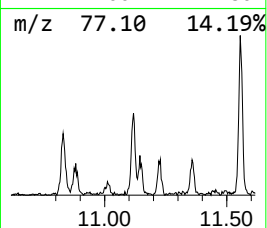
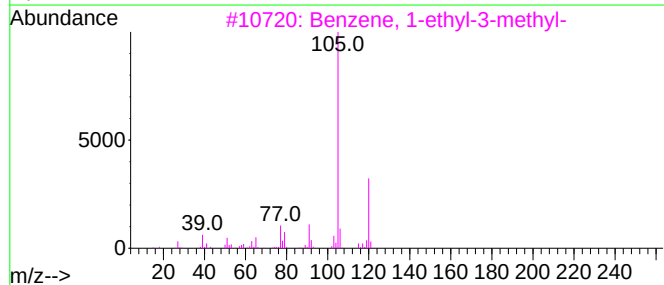
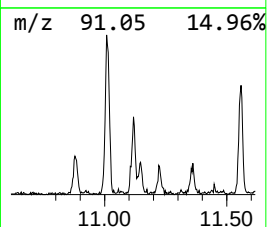
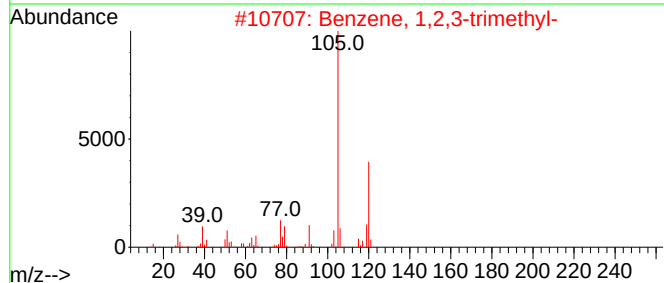
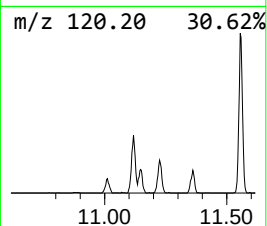
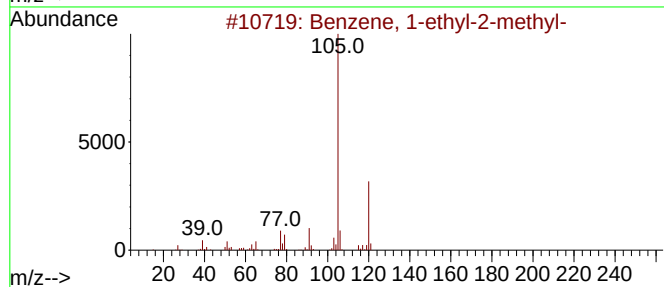
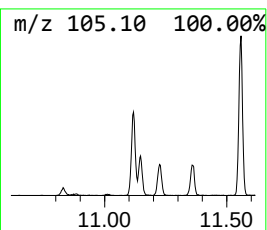
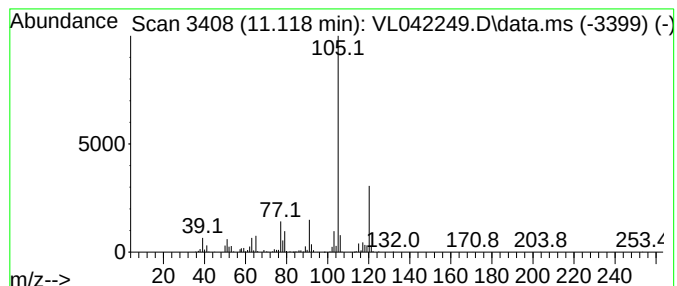
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Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

Peak Number 7 Benzene, 1-ethyl-2-methyl- Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.118	1.42 ppbv	235255	Chlorobenzene-d5	8.908

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Benzene, 1-ethyl-2-methyl-	120	C9H12	000611-14-3	94
2			Benzene, 1,2,3-trimethyl-	120	C9H12	000526-73-8	91
3			Benzene, 1-ethyl-3-methyl-	120	C9H12	000620-14-4	91
4			Benzene, 1-ethyl-2-methyl-	120	C9H12	000611-14-3	91
5			Benzene, 1-ethyl-4-methyl-	120	C9H12	000622-96-8	91



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040725\
Data File : VL042249.D
Acq On : 08 Apr 2025 00:46
Operator : SY/MD
Sample : Q1725-07
Misc : 400mL/MSVOA_L
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
SSSG-B10-1-03312025-SPLIT

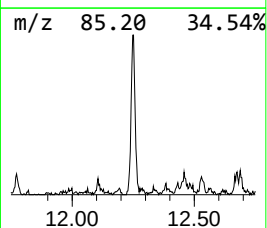
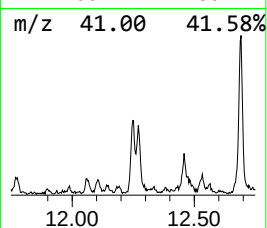
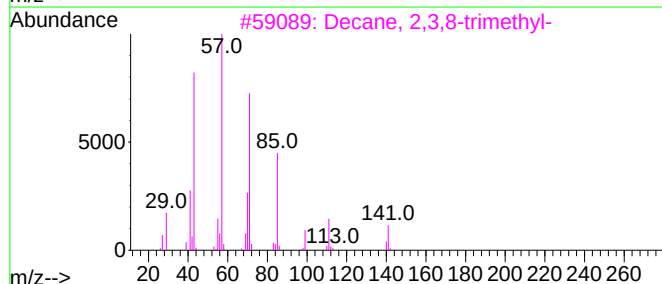
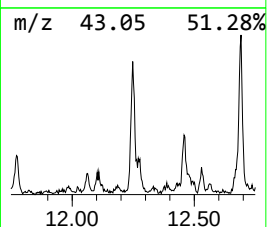
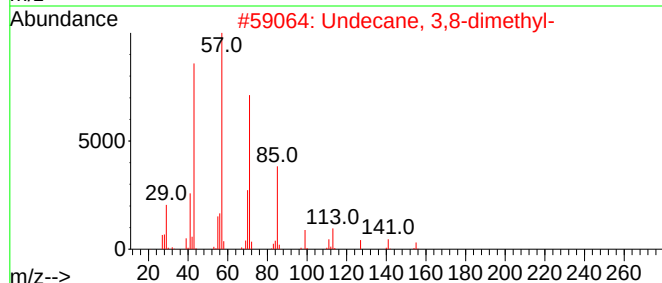
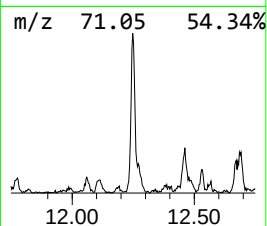
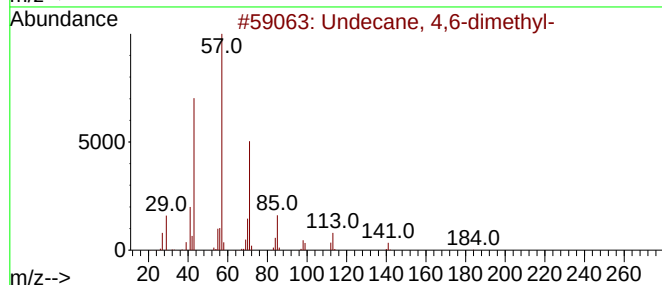
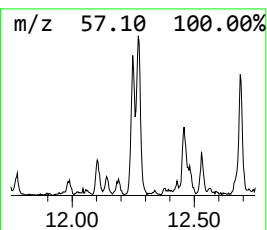
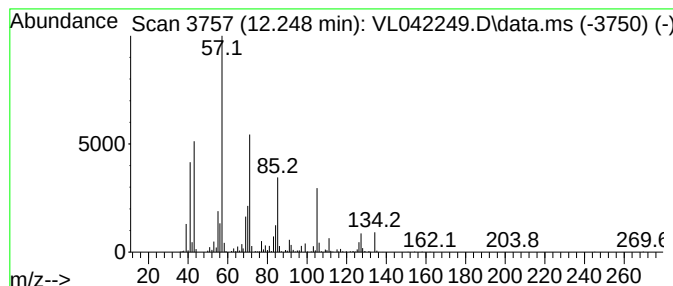
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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

Peak Number 8 Undecane, 4,6-dimethyl- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.248	1.72 ppbv	286190	Chlorobenzene-d5	8.908

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Undecane, 4,6-dimethyl-	184	C13H28	017312-82-2	50
2			Undecane, 3,8-dimethyl-	184	C13H28	017301-30-3	47
3			Decane, 2,3,8-trimethyl-	184	C13H28	062238-14-6	47
4			Undecane, 5,7-dimethyl-	184	C13H28	017312-83-3	47
5			3-Ethyl-3-methylheptane	142	C10H22	017302-01-1	43



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040725\
Data File : VL042249.D
Acq On : 08 Apr 2025 00:46
Operator : SY/MD
Sample : Q1725-07
Misc : 400mL/MSVOA_L
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
SSSG-B10-1-03312025-SPLIT

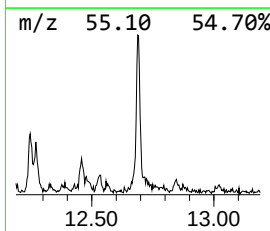
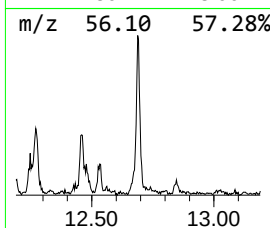
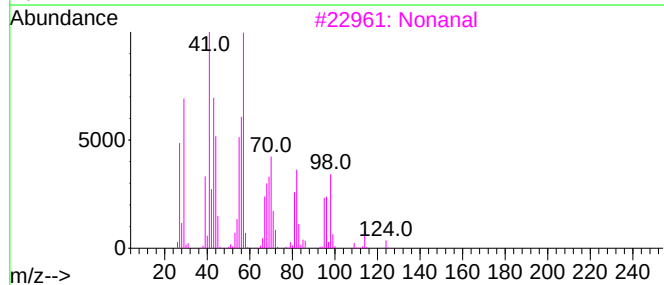
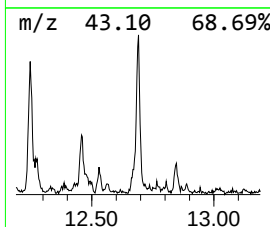
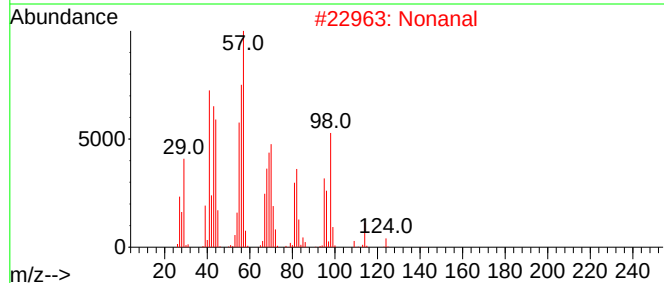
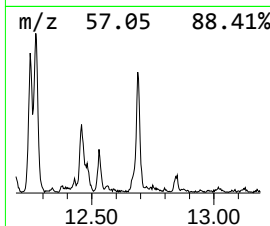
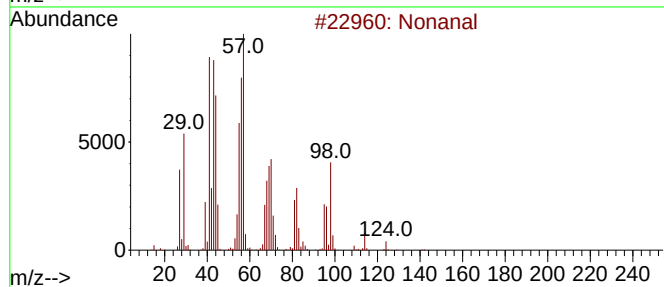
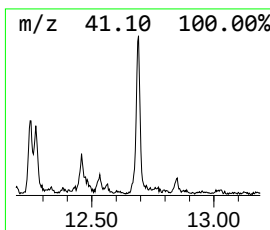
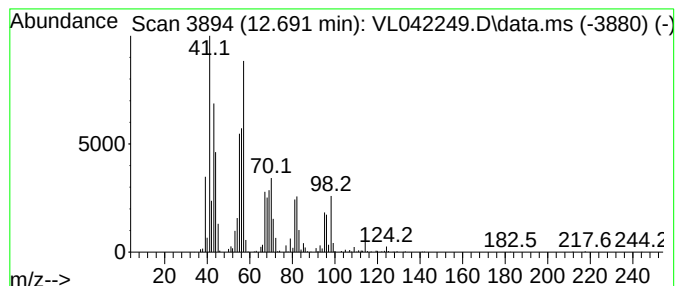
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Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

Peak Number 9 Nonanal Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.691	2.79 ppbv	464048	Chlorobenzene-d5	8.908

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1	Nonanal			142	C9H18O	000124-19-6	86
2	Nonanal			142	C9H18O	000124-19-6	78
3	Nonanal			142	C9H18O	000124-19-6	59
4	7-Octen-1-ol, 3,7-dimethyl-, (S)-			156	C10H20O	006812-78-8	35
5	Acetic acid, undec-2-enyl ester			212	C13H24O2	100288-67-3	30



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040725\
Data File : VL042249.D
Acq On : 08 Apr 2025 00:46
Operator : SY/MD
Sample : Q1725-07
Misc : 400mL/MSVOA_L
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
SSSG-B10-1-03312025-SPLIT

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	--Internal Standard--			
					#	RT	Resp	Conc
1-Propene, 2-me...	1.612	2.7	ppbv	202008	1	2.807	747553	10.0
Pentane, 2-methyl-	2.493	1.6	ppbv	117389	1	2.807	747553	10.0
1-Hexene, 4-met...	2.645	1.3	ppbv	97359	1	2.807	747553	10.0
Hexane, 3-methyl-	4.305	1.2	ppbv	167726	2	3.988	1356800	10.0
Benzene, 1-ethy...	11.118	1.4	ppbv	235255	3	8.908	1662110	10.0
Undecane, 4,6-d...	12.248	1.7	ppbv	286190	3	8.908	1662110	10.0
Nonanal	12.691	2.8	ppbv	464048	3	8.908	1662110	10.0

Report of Analysis

Client:	Woodard & Curran	Date Collected:	03/31/25
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	04/03/25
Client Sample ID:	SSSG-B10-1-03312025-SPLITDL	SDG No.:	Q1725
Lab Sample ID:	Q1725-07DL	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042241.D	10		04/07/25 20:19	VL040725

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	2.10	10.4	UD	10.4	24.7	ug/m3
74-87-3	Chloromethane	0.98	2.02	UD	2.02	10.3	ug/m3
75-01-4	Vinyl Chloride	0.14	0.36	UD	0.36	0.77	ug/m3
74-83-9	Bromomethane	1.40	5.44	UD	5.44	19.4	ug/m3
75-00-3	Chloroethane	1.70	4.49	UD	4.49	13.2	ug/m3
109-99-9	Tetrahydrofuran	1.30	3.83	UD	3.83	14.8	ug/m3
75-69-4	Trichlorofluoromethane	1.60	8.99	UD	8.99	28.1	ug/m3
76-13-1	1,1,2-Trichlorotrifluoroethane	1.60	12.3	UD	12.3	38.3	ug/m3
76-14-2	Dichlorotetrafluoroethane	0.88	6.15	UD	6.15	35.0	ug/m3
75-65-0	tert-Butyl alcohol	1.90	5.76	UD	5.76	15.2	ug/m3
142-82-5	Heptane	1.10	4.51	UD	4.51	20.5	ug/m3
75-35-4	1,1-Dichloroethene	1.40	5.55	UD	5.55	19.8	ug/m3
67-64-1	Acetone	32.0	76.0	D	5.70	11.9	ug/m3
75-15-0	Carbon Disulfide	1.60	4.98	UD	4.98	15.6	ug/m3
1634-04-4	Methyl tert-Butyl Ether	1.20	4.33	UD	4.33	18.0	ug/m3
75-09-2	Methylene Chloride	2.80	9.73	JD	6.60	17.4	ug/m3
156-60-5	trans-1,2-Dichloroethene	1.90	7.53	UD	7.53	19.8	ug/m3
75-34-3	1,1-Dichloroethane	1.30	5.26	UD	5.26	20.2	ug/m3
110-82-7	Cyclohexane	2.20	7.57	UD	7.57	17.2	ug/m3
78-93-3	2-Butanone	1.60	4.72	JD	3.54	14.8	ug/m3
56-23-5	Carbon Tetrachloride	0.11	0.69	UD	0.69	1.89	ug/m3
156-59-2	cis-1,2-Dichloroethene	0.89	3.53	UD	3.53	19.8	ug/m3
67-66-3	Chloroform	2.50	12.2	JD	4.05	24.4	ug/m3
71-55-6	1,1,1-Trichloroethane	0.10	0.55	UD	0.55	1.64	ug/m3
540-84-1	2,2,4-Trimethylpentane	1.00	4.67	UD	4.67	23.4	ug/m3
71-43-2	Benzene	0.87	2.78	UD	2.78	16.0	ug/m3
107-06-2	1,2-Dichloroethane	0.91	3.68	UD	3.68	20.2	ug/m3
79-01-6	Trichloroethene	0.17	0.91	UD	0.91	1.61	ug/m3
78-87-5	1,2-Dichloropropane	1.10	5.08	UD	5.08	23.1	ug/m3
75-27-4	Bromodichloromethane	0.77	5.16	UD	5.16	33.5	ug/m3
108-10-1	4-Methyl-2-Pentanone	0.93	3.81	UD	3.81	20.5	ug/m3
108-88-3	Toluene	3.10	11.7	JD	4.15	18.8	ug/m3
10061-02-6	t-1,3-Dichloropropene	0.60	2.72	UD	2.72	22.7	ug/m3
10061-01-5	cis-1,3-Dichloropropene	0.64	2.91	UD	2.91	22.7	ug/m3
79-00-5	1,1,2-Trichloroethane	0.71	3.87	UD	3.87	27.3	ug/m3

Report of Analysis

Client:	Woodard & Curran	Date Collected:	03/31/25
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	04/03/25
Client Sample ID:	SSSG-B10-1-03312025-SPLITDL	SDG No.:	Q1725
Lab Sample ID:	Q1725-07DL	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042241.D	10		04/07/25 20:19	VL040725

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
124-48-1	Dibromochloromethane	0.66	5.62	UD	5.62	42.6	ug/m3
106-93-4	1,2-Dibromoethane	0.72	5.53	UD	5.53	7.69	ug/m3
127-18-4	Tetrachloroethene	0.73	4.95	D	1.02	2.03	ug/m3
108-90-7	Chlorobenzene	0.76	3.50	UD	3.50	23.0	ug/m3
100-41-4	Ethyl Benzene	1.20	5.21	UD	5.21	21.7	ug/m3
179601-23-1	m/p-Xylene	2.50	10.9	JD	9.12	43.4	ug/m3
95-47-6	o-Xylene	1.20	5.21	JD	5.21	21.7	ug/m3
100-42-5	Styrene	1.10	4.68	UD	4.68	21.3	ug/m3
75-25-2	Bromoform	0.57	5.89	UD	5.89	51.7	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	0.11	0.76	UD	0.76	2.06	ug/m3
95-49-8	2-Chlorotoluene	1.10	5.70	UD	5.70	25.9	ug/m3
108-67-8	1,3,5-Trimethylbenzene	1.10	5.41	UD	5.41	24.6	ug/m3
95-63-6	1,2,4-Trimethylbenzene	0.78	3.83	UD	3.83	24.6	ug/m3
541-73-1	1,3-Dichlorobenzene	0.80	4.81	UD	4.81	30.1	ug/m3
106-46-7	1,4-Dichlorobenzene	0.53	3.19	UD	3.19	30.1	ug/m3
95-50-1	1,2-Dichlorobenzene	0.75	4.51	UD	4.51	30.1	ug/m3
120-82-1	1,2,4-Trichlorobenzene	0.85	6.31	UD	6.31	37.1	ug/m3
87-68-3	Hexachloro-1,3-Butadiene	0.85	9.07	UD	9.07	53.3	ug/m3
106-99-0	1,3-Butadiene	1.30	2.88	UD	2.88	11.1	ug/m3
91-20-3	Naphthalene	0.75	3.93	UD	3.93	5.24	ug/m3
622-96-8	4-Ethyltoluene	1.20	5.90	UD	5.90	24.6	ug/m3
110-54-3	Hexane	1.10	3.88	UD	3.88	17.6	ug/m3
107-05-1	Allyl Chloride	1.50	4.70	UD	4.70	15.7	ug/m3
123-91-1	1,4-Dioxane	2.10	7.57	UD	7.57	18.0	ug/m3
80-62-6	Methyl Methacrylate	0.86	3.52	UD	3.52	20.5	ug/m3
SURROGATES							
460-00-4	1-Bromo-4-Fluorobenzene	9.60			70 (65) - 130 (135)	96%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	193000		2.8			
540-36-3	1,4-Difluorobenzene	501000		3.978			
3114-55-4	Chlorobenzene-d5	436000		8.901			

Report of Analysis

Client:	Woodard & Curran	Date Collected:	03/31/25
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	04/03/25
Client Sample ID:	SSSG-B10-1-03312025-SPLITDL	SDG No.:	Q1725
Lab Sample ID:	Q1725-07DL	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042241.D	10		04/07/25 20:19	VL040725

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units

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\VL040725\
 Data File : VL042241.D
 Acq On : 07 Apr 2025 20:19
 Operator : SY/MD
 Sample : Q1725-07DL 10X
 Misc : 400mL/MSVOA_L
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SSSG-B10-1-03312025-SPLITDL

Quant Time: Apr 08 01:35:14 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 2
 QLast Update : Fri Mar 28 02:00:52 2025
 Response via : Initial Calibration

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 04/08/2025
 Supervised By : Mahesh Dadoda 04/09/2025

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

Internal Standards						
1) Bromochloromethane	2.800	49	193361	10.000	ppbv	0.02
33) 1,4-Difluorobenzene	3.978	114	501287	10.000	ppbv	0.03
55) Chlorobenzene-d5	8.901	117	435889	10.000	ppbv	0.03
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.393	95	342674	9.573	ppbv	0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	95.700%
Target Compounds						
					Qvalue	
9) Propene	1.492	41	2464	0.184	ppbv	96
13) Ethanol	1.729	45	24715	19.557	ppbv	88
15) Acetone	1.845	43	86496	3.199	ppbv	92
19) Isopropyl Alcohol	1.897	45	27725	1.817	ppbv #	36
20) Methylene Chloride	2.072	84	2831	0.281	ppbv	97
29) Chloroform	2.862	83	10048	0.253	ppbv #	79
34) 2-Butanone	2.573	43	5926	0.163	ppbv	99
52) Tetrachloroethene	8.251	164	1429m	0.073	ppbv	
53) Toluene	6.959	91	18223m	0.309	ppbv	
59) m/p-Xylene	9.548	91	15450m	0.250	ppbv	
60) o-Xylene	9.982	91	7313	0.118	ppbv	96

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

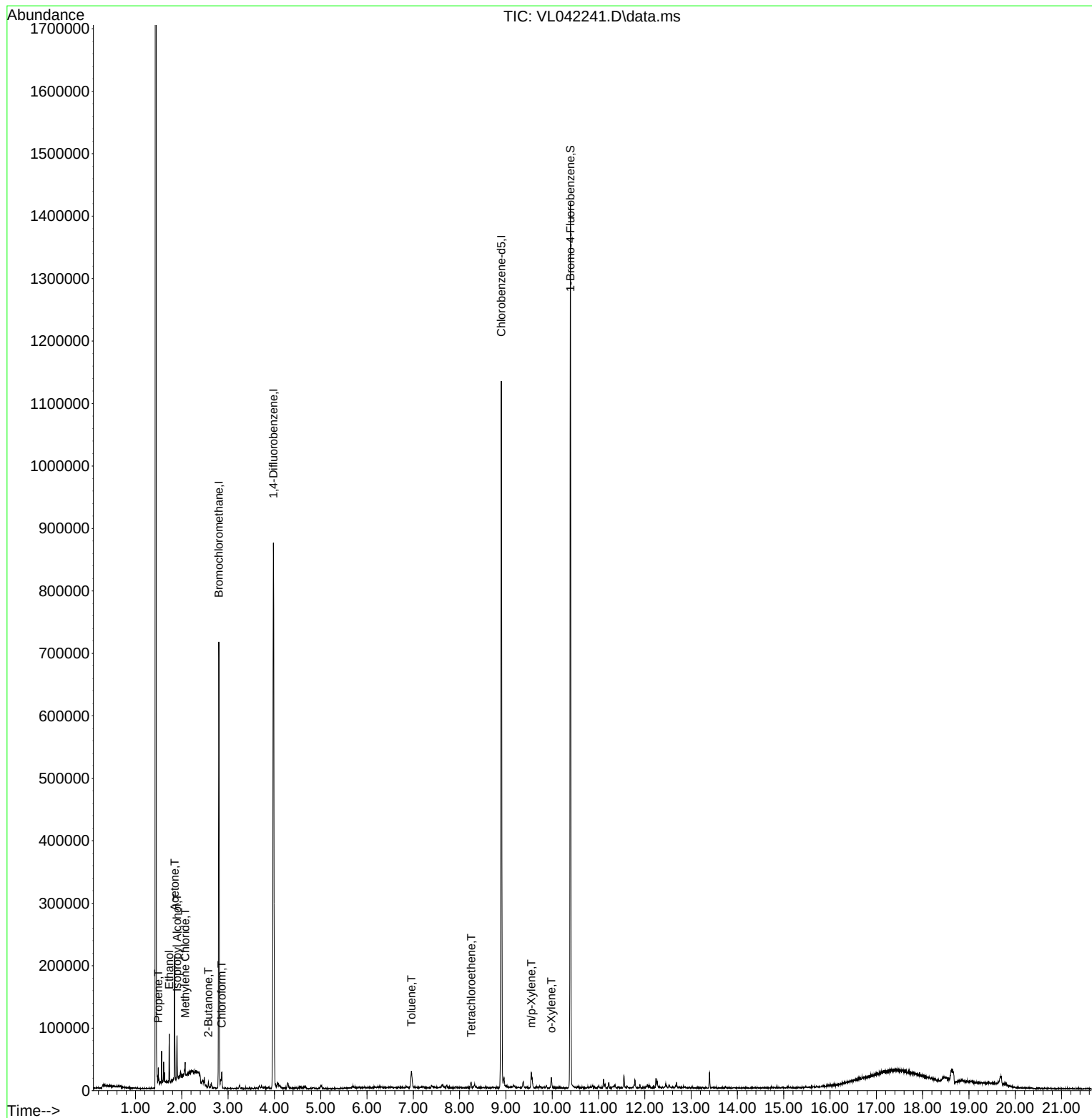
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Acq On : 07 Apr 2025 20:19
Operator : SY/MD
Sample : Q1725-07DL 10X
Misc : 400mL/MSVOA_L
ALS Vial : 11 Sample Multiplier: 1

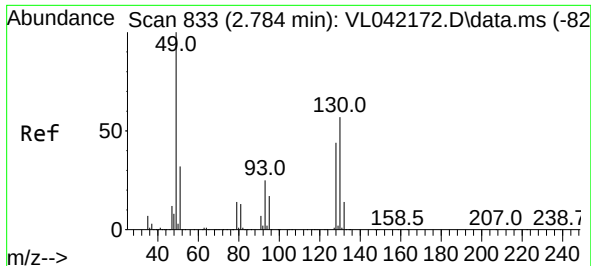
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B10-1-03312025-SPLITDL

Quant Time: Apr 08 01:35:14 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Fri Mar 28 02:00:52 2025
Response via : Initial Calibration

Manual Integrations
APPROVED

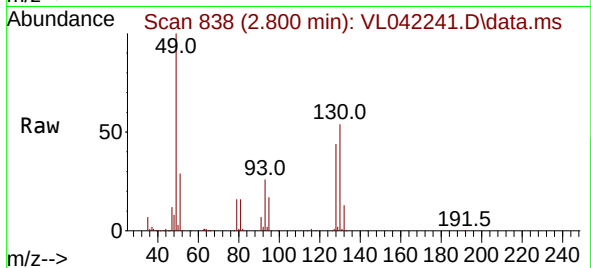
Reviewed By :Semsettin Yesilyurt 04/08/2025
Supervised By :Mahesh Dadoda 04/09/2025





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.800 min Scan# 81
Delta R.T. 0.016 min
Lab File: VL042241.D
Acq: 07 Apr 2025 20:19

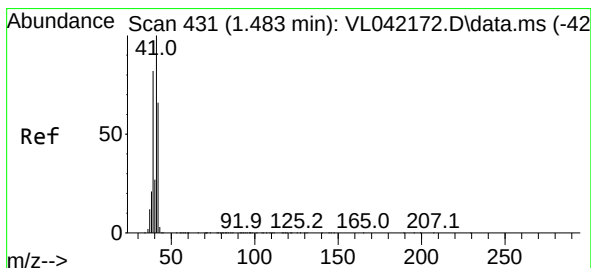
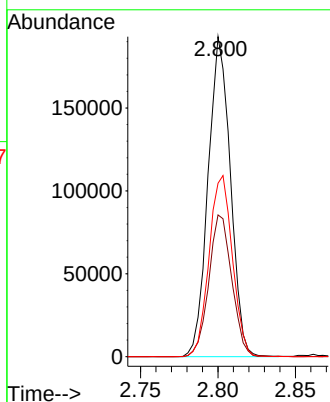
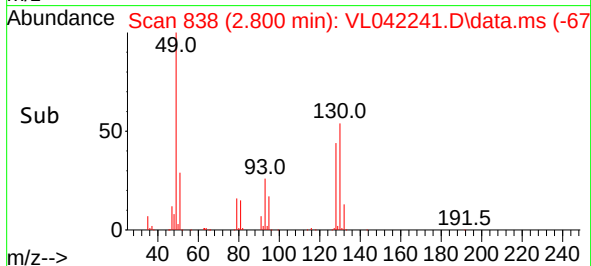
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B10-1-03312025-SPLITDL



Tgt Ion: 49 Resp: 19336
Ion Ratio Lower Upper
49 100
128 45.7 22.9 68.5
130 59.2 28.8 86.4

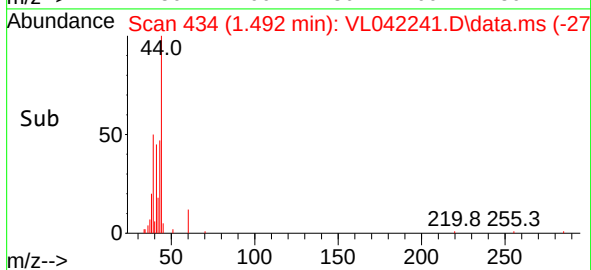
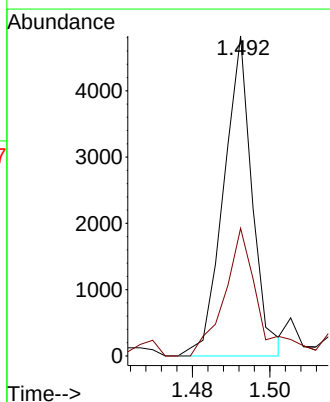
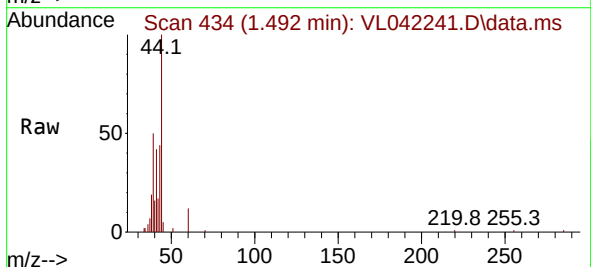
Manual Integrations
APPROVED

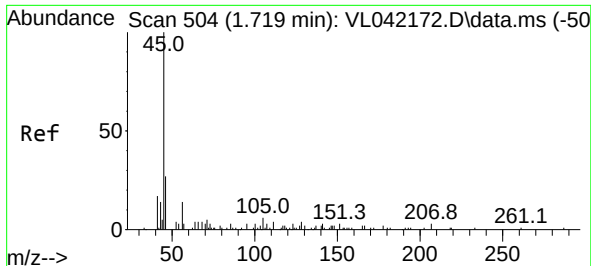
Reviewed By :Semsettin Yesilyurt 04/08/2025
Supervised By :Mahesh Dadoda 04/09/2025



#9
Propene
Concen: 0.184 ppbv
RT: 1.492 min Scan# 434
Delta R.T. 0.010 min
Lab File: VL042241.D
Acq: 07 Apr 2025 20:19

Tgt Ion: 41 Resp: 2464
Ion Ratio Lower Upper
41 100
42 66.0 55.4 83.2





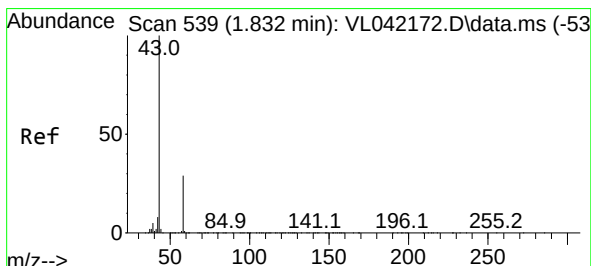
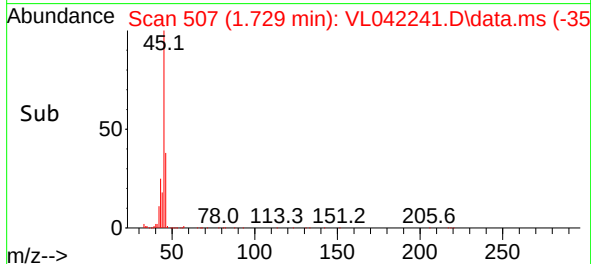
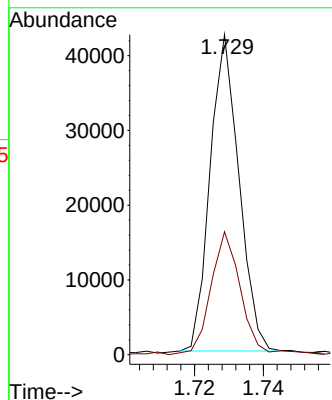
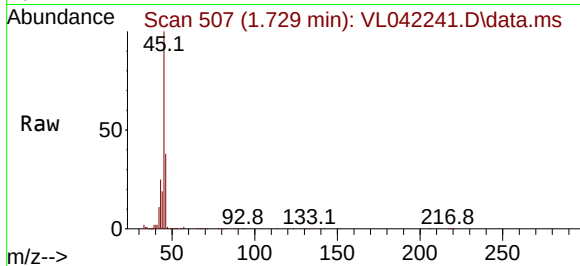
#13
Ethanol
Concen: 19.557 ppbv
RT: 1.729 min Scan# 504
Delta R.T. 0.010 min
Lab File: VL042241.D
Acq: 07 Apr 2025 20:19

Instrument :
MSVOA_L
ClientSampleId :
SSSG-B10-1-03312025-SPLITDL

Tgt Ion: 45 Resp: 24715
Ion Ratio Lower Upper
45 100
46 42.1 20.2 80.8

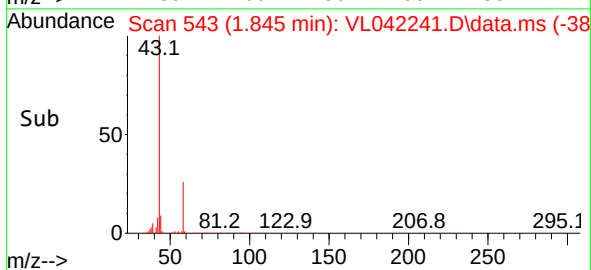
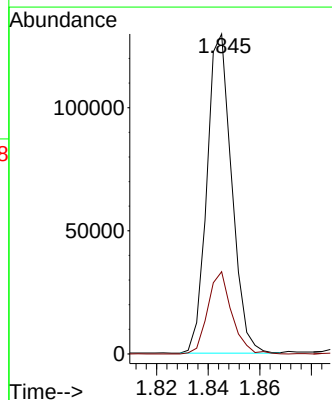
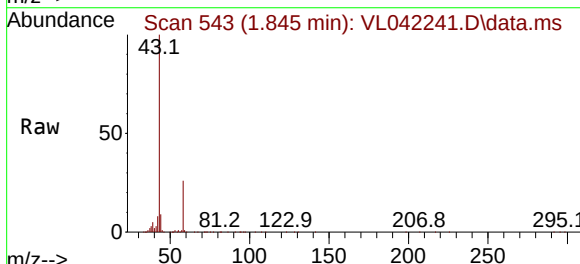
Manual Integrations
APPROVED

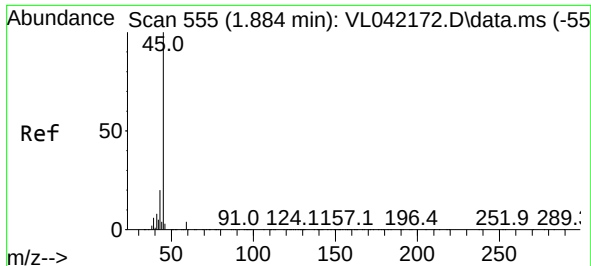
Reviewed By :Semsettin Yesilyurt 04/08/2025
Supervised By :Mahesh Dadoda 04/09/2025



#15
Acetone
Concen: 3.199 ppbv
RT: 1.845 min Scan# 543
Delta R.T. 0.013 min
Lab File: VL042241.D
Acq: 07 Apr 2025 20:19

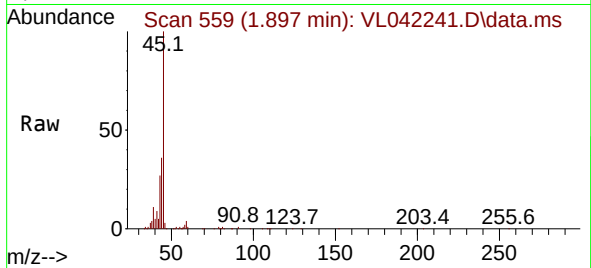
Tgt Ion: 43 Resp: 86496
Ion Ratio Lower Upper
43 100
58 24.9 23.2 34.8





#19
Isopropyl Alcohol
Concen: 1.817 ppbv
RT: 1.897 min Scan# 511
Delta R.T. 0.013 min
Lab File: VL042241.D
Acq: 07 Apr 2025 20:19

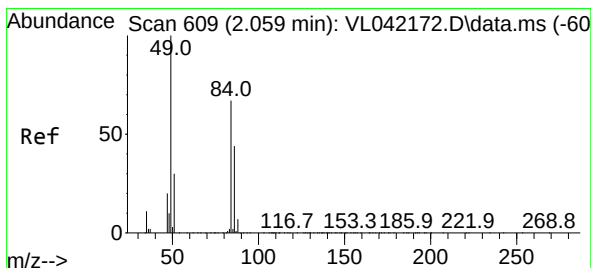
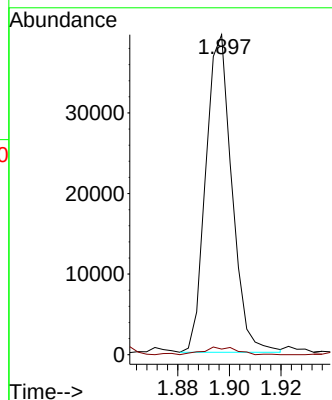
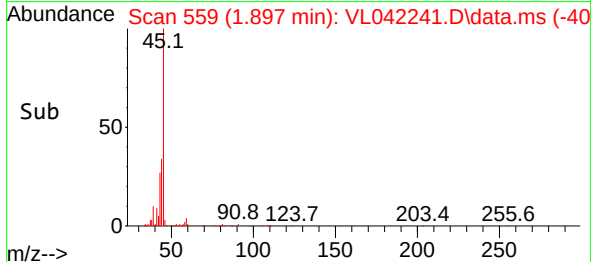
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B10-1-03312025-SPLITDL



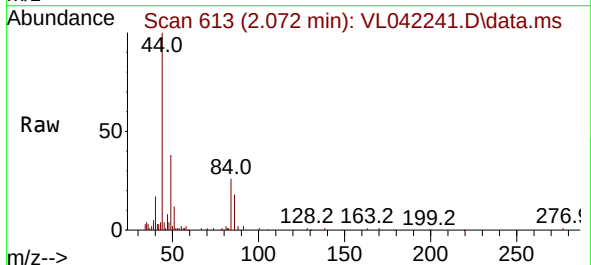
Tgt Ion: 45 Resp: 27725
Ion Ratio Lower Upper
45 100
58 3.6 36.9 55.3

Manual Integrations
APPROVED

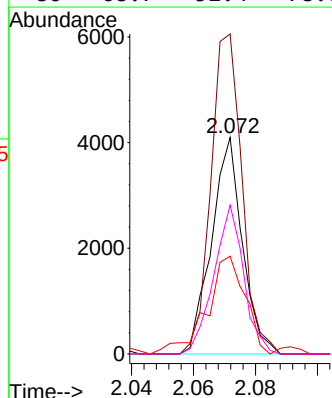
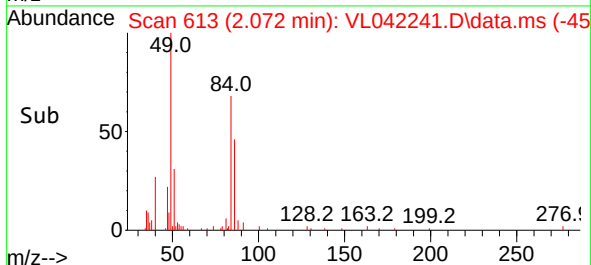
Reviewed By :Semsettin Yesilyurt 04/08/2025
Supervised By :Mahesh Dadoda 04/09/2025

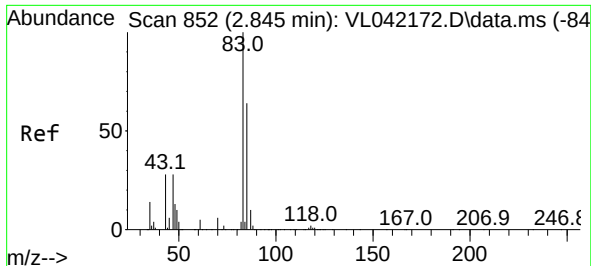


#20
Methylene Chloride
Concen: 0.281 ppbv
RT: 2.072 min Scan# 613
Delta R.T. 0.013 min
Lab File: VL042241.D
Acq: 07 Apr 2025 20:19



Tgt Ion: 84 Resp: 2831
Ion Ratio Lower Upper
84 100
49 147.8 120.2 180.4
51 42.5 37.4 56.0
86 68.7 52.4 78.6





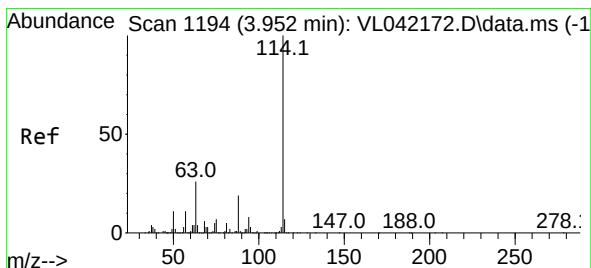
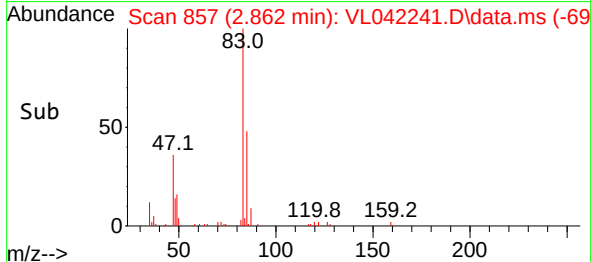
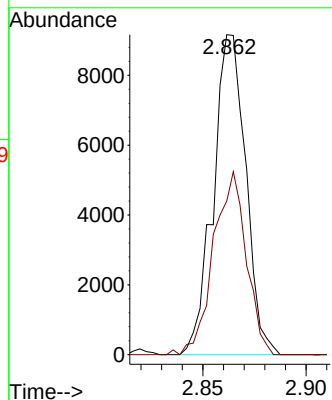
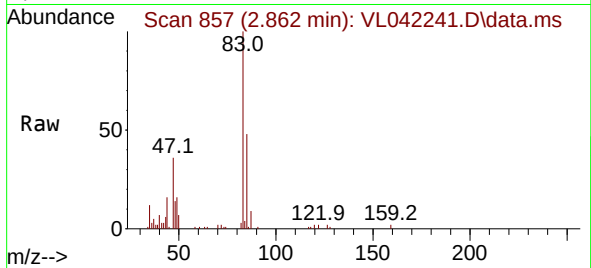
#29
Chloroform
Concen: 0.253 ppbv
RT: 2.862 min Scan# 81
Delta R.T. 0.016 min
Lab File: VL042241.D
Acq: 07 Apr 2025 20:19

Instrument :
MSVOA_L
ClientSampleId :
SSSG-B10-1-03312025-SPLITDL

Tgt Ion: 83 Resp: 1004
Ion Ratio Lower Upper
83 100
85 48.0 51.4 77.2

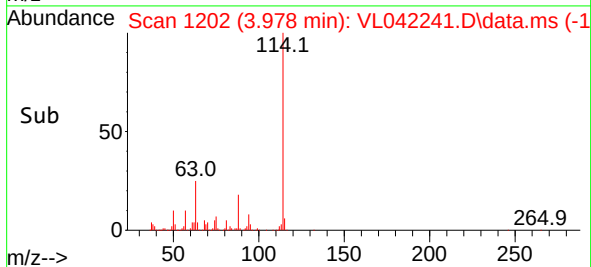
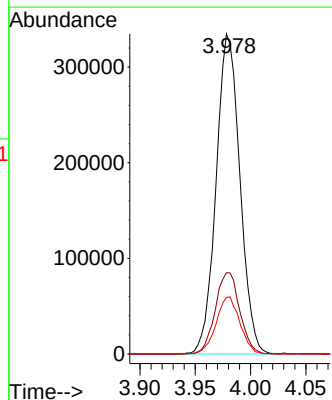
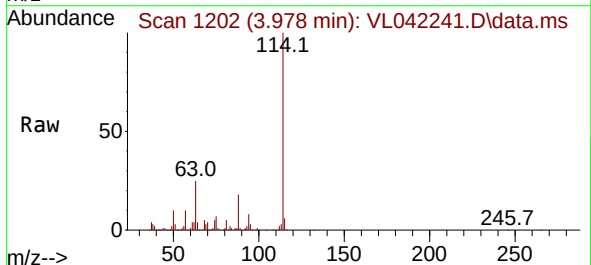
Manual Integrations
APPROVED

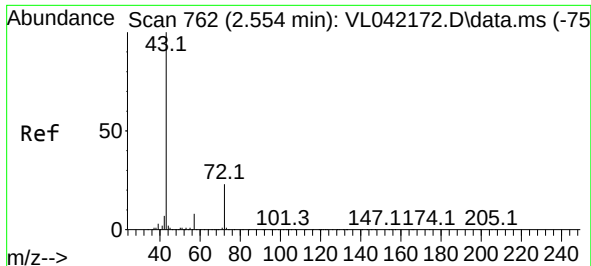
Reviewed By :Semsettin Yesilyurt 04/08/2025
Supervised By :Mahesh Dadoda 04/09/2025



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.978 min Scan# 1202
Delta R.T. 0.026 min
Lab File: VL042241.D
Acq: 07 Apr 2025 20:19

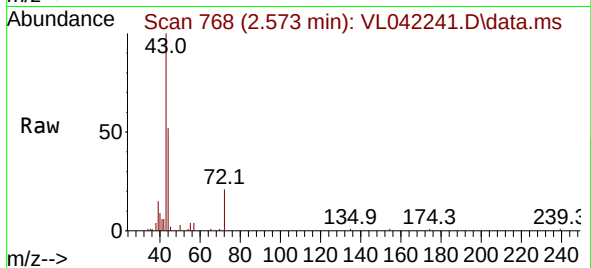
Tgt Ion:114 Resp: 501287
Ion Ratio Lower Upper
114 100
63 26.2 20.7 31.1
88 17.8 15.0 22.4





#34
2-Butanone
Concen: 0.163 ppbv
RT: 2.573 min Scan# 70
Delta R.T. 0.019 min
Lab File: VL042241.D
Acq: 07 Apr 2025 20:19

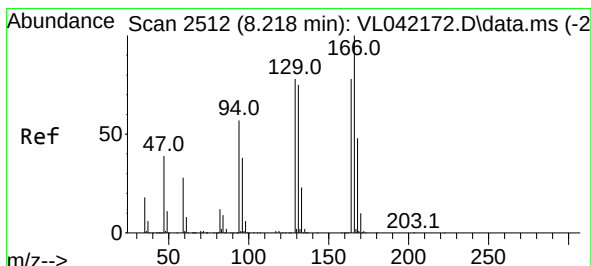
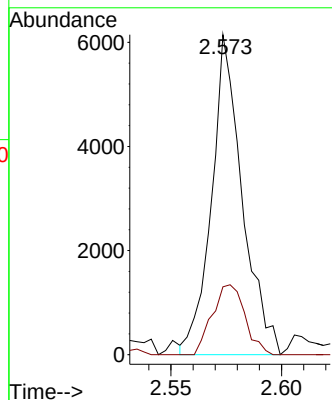
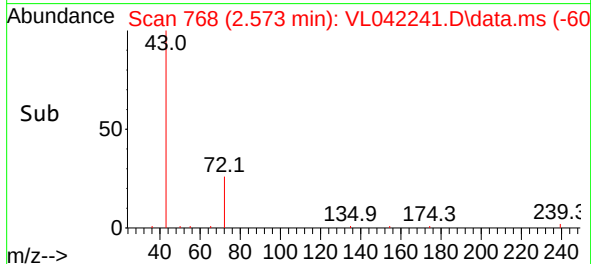
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B10-1-03312025-SPLITDL



Tgt Ion: 43 Resp: 5920
Ion Ratio Lower Upper
43 100
72 23.2 18.2 27.2

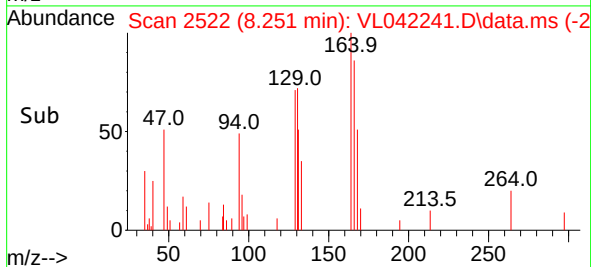
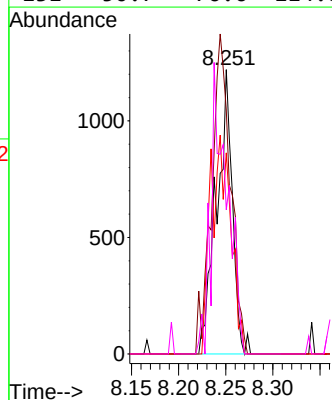
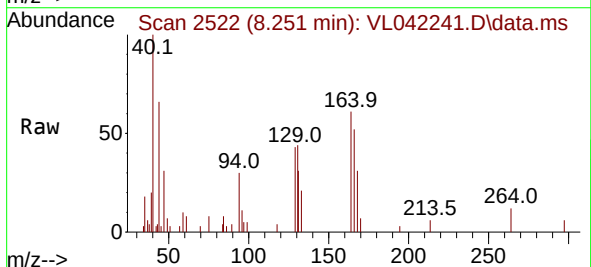
Manual Integrations
APPROVED

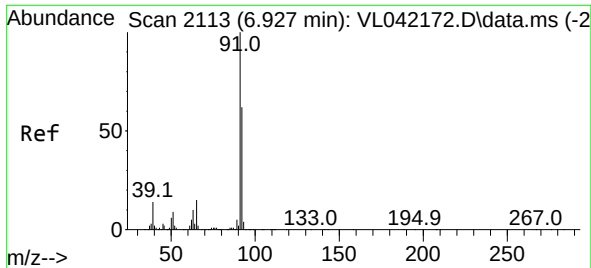
Reviewed By :Semsettin Yesilyurt 04/08/2025
Supervised By :Mahesh Dadoda 04/09/2025



#52
Tetrachloroethene
Concen: 0.073 ppbv m
RT: 8.251 min Scan# 2522
Delta R.T. 0.032 min
Lab File: VL042241.D
Acq: 07 Apr 2025 20:19

Tgt Ion:164 Resp: 1429
Ion Ratio Lower Upper
164 100
166 85.9 102.5 153.7#
129 70.7 79.8 119.8#
131 50.7 76.6 114.8#





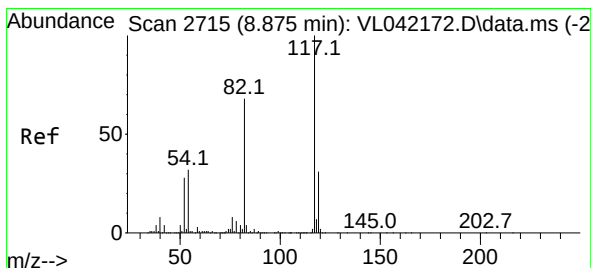
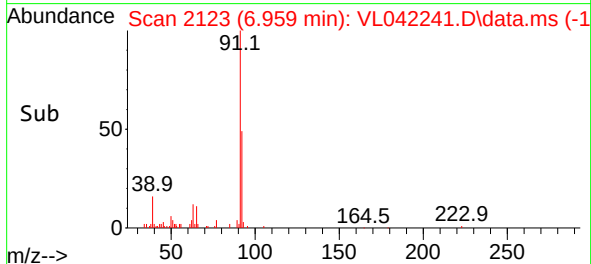
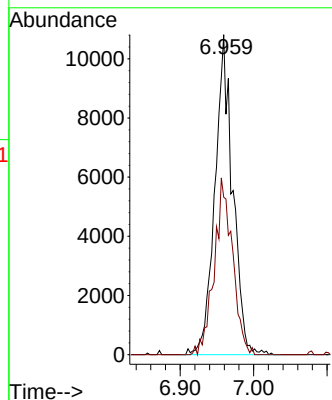
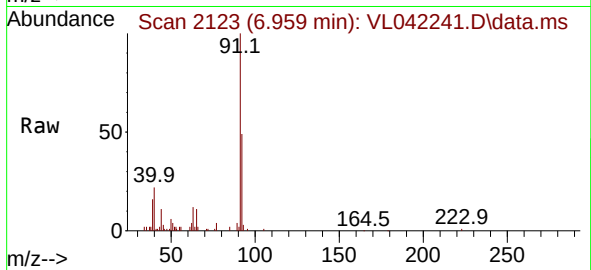
#53
Toluene
Concen: 0.309 ppbv m
RT: 6.959 min Scan# 2113
Delta R.T. 0.032 min
Lab File: VL042241.D
Acq: 07 Apr 2025 20:19

Instrument : MSVOA_L
ClientSampleId : SSSG-B10-1-03312025-SPLITDL

Tgt Ion: 91 Resp: 1822
Ion Ratio Lower Upper
91 100
92 0.0 48.4 72.6

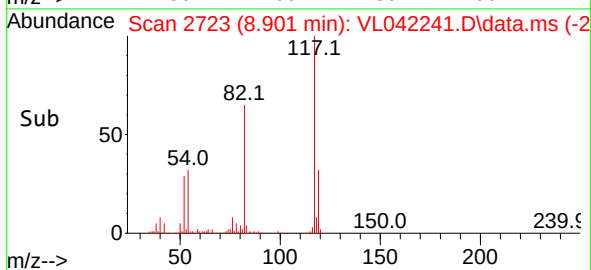
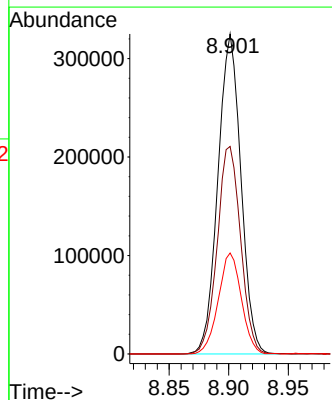
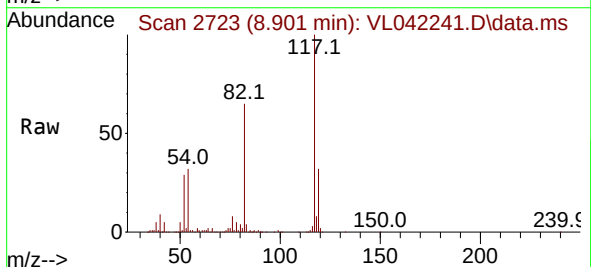
Manual Integrations
APPROVED

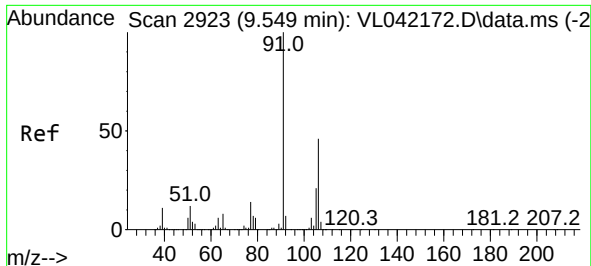
Reviewed By :Semsettin Yesilyurt 04/08/2025
Supervised By :Mahesh Dadoda 04/09/2025



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.901 min Scan# 2723
Delta R.T. 0.026 min
Lab File: VL042241.D
Acq: 07 Apr 2025 20:19

Tgt Ion:117 Resp: 435889
Ion Ratio Lower Upper
117 100
82 65.9 55.8 83.6
119 31.6 25.5 38.3





#59

m/p-Xylene

Concen: 0.250 ppbv m

RT: 9.548 min Scan# 2923

Delta R.T. -0.000 min

Lab File: VL042241.D

Acq: 07 Apr 2025 20:19

Instrument :

MSVOA_L

ClientSampleId :

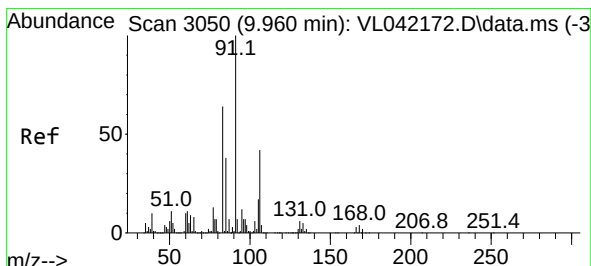
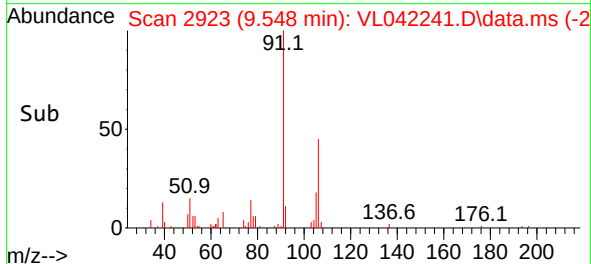
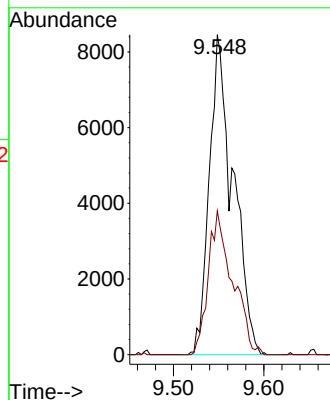
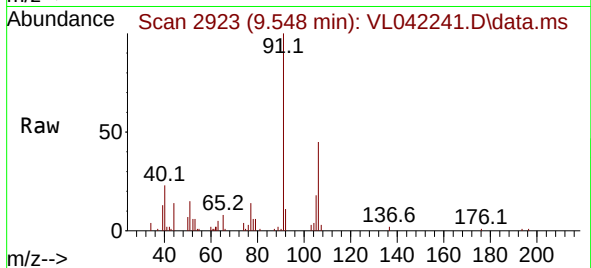
SSSG-B10-1-03312025-SPLITDL

Tgt Ion: 91 Resp: 15450
 Ion Ratio Lower Upper
 91 100
 106 0.0 36.4 54.6

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/08/2025
 Supervised By :Mahesh Dadoda 04/09/2025



#60

o-Xylene

Concen: 0.118 ppbv

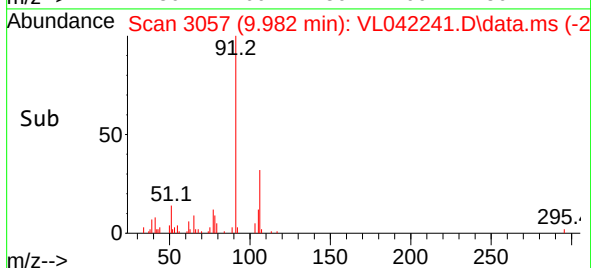
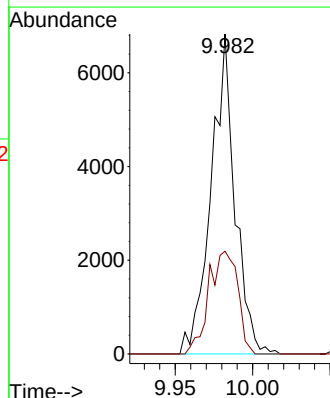
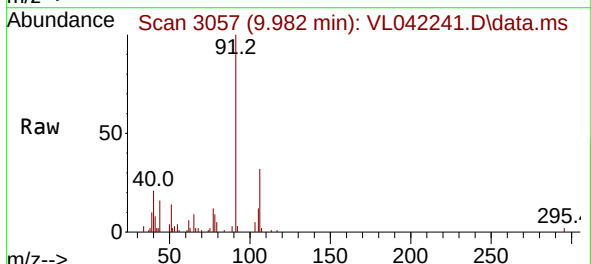
RT: 9.982 min Scan# 3057

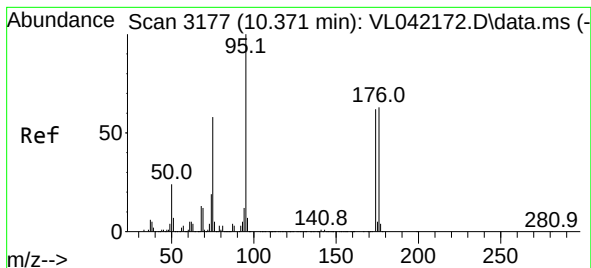
Delta R.T. 0.023 min

Lab File: VL042241.D

Acq: 07 Apr 2025 20:19

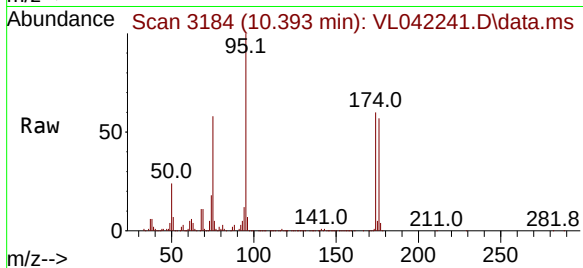
Tgt Ion: 91 Resp: 7313
 Ion Ratio Lower Upper
 91 100
 106 39.0 20.8 62.5





#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.573 ppbv
 RT: 10.393 min Scan# 3177
 Delta R.T. 0.023 min
 Lab File: VL042241.D
 Acq: 07 Apr 2025 20:19

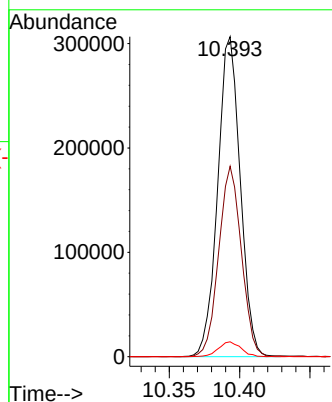
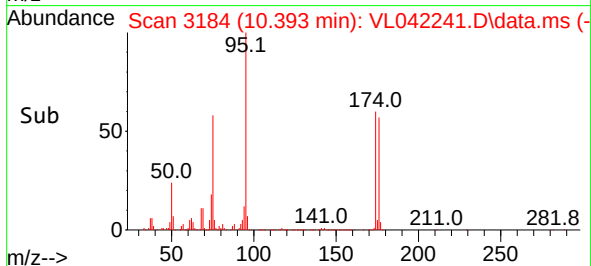
Instrument : MSVOA_L
 ClientSampleId : SSSG-B10-1-03312025-SPLITDL



Tgt Ion: 95 Resp: 342674
 Ion Ratio Lower Upper
 95 100
 174 59.7 50.6 76.0
 175 4.7 3.8 5.6

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 04/08/2025
 Supervised By :Mahesh Dadoda 04/09/2025



Report of Analysis

Client:	Woodard & Curran	Date Collected:	03/31/25
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	04/03/25
Client Sample ID:	SSSG-B10-2-03312025	SDG No.:	Q1725
Lab Sample ID:	Q1725-08	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042250.D	4		04/08/25 01:17	VL040725

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.84	4.15	U	4.15	9.89	ug/m3
74-87-3	Chloromethane	0.45	0.93	J	0.81	4.13	ug/m3
75-01-4	Vinyl Chloride	0.060	0.15	U	0.15	0.31	ug/m3
74-83-9	Bromomethane	0.56	2.17	U	2.17	7.77	ug/m3
75-00-3	Chloroethane	0.68	1.79	U	1.79	5.28	ug/m3
109-99-9	Tetrahydrofuran	0.52	1.53	U	1.53	5.90	ug/m3
75-69-4	Trichlorofluoromethane	0.64	3.60	U	3.60	11.2	ug/m3
76-13-1	1,1,2-Trichlorotrifluoroethane	0.64	4.91	U	4.91	15.3	ug/m3
76-14-2	Dichlorotetrafluoroethane	0.35	2.45	U	2.45	14.0	ug/m3
75-65-0	tert-Butyl alcohol	1.20	3.64	J	2.30	6.06	ug/m3
142-82-5	Heptane	0.44	1.80	U	1.80	8.20	ug/m3
75-35-4	1,1-Dichloroethene	0.56	2.22	U	2.22	7.93	ug/m3
67-64-1	Acetone	140	333	E	2.28	4.75	ug/m3
75-15-0	Carbon Disulfide	0.64	1.99	U	1.99	6.23	ug/m3
1634-04-4	Methyl tert-Butyl Ether	0.48	1.73	U	1.73	7.21	ug/m3
75-09-2	Methylene Chloride	0.96	3.34	J	2.64	6.95	ug/m3
156-60-5	trans-1,2-Dichloroethene	0.76	3.01	U	3.01	7.93	ug/m3
75-34-3	1,1-Dichloroethane	0.52	2.10	U	2.10	8.09	ug/m3
110-82-7	Cyclohexane	0.88	3.03	U	3.03	6.88	ug/m3
78-93-3	2-Butanone	21.9	64.6		1.42	5.90	ug/m3
56-23-5	Carbon Tetrachloride	0.040	0.25	U	0.25	0.75	ug/m3
156-59-2	cis-1,2-Dichloroethene	0.36	1.43	U	1.43	7.93	ug/m3
67-66-3	Chloroform	1.50	7.33	J	1.61	9.77	ug/m3
71-55-6	1,1,1-Trichloroethane	0.040	0.22	U	0.22	0.65	ug/m3
540-84-1	2,2,4-Trimethylpentane	0.40	1.87	U	1.87	9.34	ug/m3
71-43-2	Benzene	0.46	1.47	J	1.12	6.39	ug/m3
107-06-2	1,2-Dichloroethane	0.36	1.46	U	1.46	8.09	ug/m3
79-01-6	Trichloroethene	0.070	0.38	U	0.38	0.64	ug/m3
78-87-5	1,2-Dichloropropane	0.44	2.03	U	2.03	9.24	ug/m3
75-27-4	Bromodichloromethane	0.31	2.08	U	2.08	13.4	ug/m3
108-10-1	4-Methyl-2-Pentanone	0.37	1.52	U	1.52	8.20	ug/m3
108-88-3	Toluene	1.80	6.78	J	1.66	7.54	ug/m3
10061-02-6	t-1,3-Dichloropropene	0.24	1.09	U	1.09	9.08	ug/m3
10061-01-5	cis-1,3-Dichloropropene	0.26	1.18	U	1.18	9.08	ug/m3
79-00-5	1,1,2-Trichloroethane	0.28	1.53	U	1.53	10.9	ug/m3

Report of Analysis

Client:	Woodard & Curran	Date Collected:	03/31/25
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	04/03/25
Client Sample ID:	SSSG-B10-2-03312025	SDG No.:	Q1725
Lab Sample ID:	Q1725-08	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042250.D	4		04/08/25 01:17	VL040725

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
124-48-1	Dibromochloromethane	0.26	2.22	U	2.22	17.0	ug/m3
106-93-4	1,2-Dibromoethane	0.29	2.23	U	2.23	3.07	ug/m3
127-18-4	Tetrachloroethene	3.10	21.0		0.41	0.81	ug/m3
108-90-7	Chlorobenzene	0.30	1.38	U	1.38	9.21	ug/m3
100-41-4	Ethyl Benzene	0.52	2.26	J	2.08	8.69	ug/m3
179601-23-1	m/p-Xylene	1.90	8.25	J	3.65	17.4	ug/m3
95-47-6	o-Xylene	0.83	3.61	J	2.08	8.69	ug/m3
100-42-5	Styrene	0.44	1.87	U	1.87	8.52	ug/m3
75-25-2	Bromoform	0.23	2.38	U	2.38	20.7	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	0.040	0.27	U	0.27	0.82	ug/m3
95-49-8	2-Chlorotoluene	0.44	2.28	U	2.28	10.4	ug/m3
108-67-8	1,3,5-Trimethylbenzene	0.44	2.16	U	2.16	9.83	ug/m3
95-63-6	1,2,4-Trimethylbenzene	0.68	3.34	J	1.52	9.83	ug/m3
541-73-1	1,3-Dichlorobenzene	0.32	1.92	U	1.92	12.0	ug/m3
106-46-7	1,4-Dichlorobenzene	0.21	1.26	U	1.26	12.0	ug/m3
95-50-1	1,2-Dichlorobenzene	0.30	1.80	U	1.80	12.0	ug/m3
120-82-1	1,2,4-Trichlorobenzene	0.34	2.52	U	2.52	14.8	ug/m3
87-68-3	Hexachloro-1,3-Butadiene	0.34	3.63	U	3.63	21.3	ug/m3
106-99-0	1,3-Butadiene	0.52	1.15	U	1.15	4.42	ug/m3
91-20-3	Naphthalene	0.30	1.57	U	1.57	2.10	ug/m3
622-96-8	4-Ethyltoluene	0.48	2.36	U	2.36	9.83	ug/m3
110-54-3	Hexane	0.51	1.80	J	1.55	7.05	ug/m3
107-05-1	Allyl Chloride	0.60	1.88	U	1.88	6.26	ug/m3
123-91-1	1,4-Dioxane	0.84	3.03	U	3.03	7.21	ug/m3
80-62-6	Methyl Methacrylate	0.34	1.39	U	1.39	8.19	ug/m3

SURROGATES

460-00-4	1-Bromo-4-Fluorobenzene	9.80		70 (65) - 130 (135)	98%	SPK: 10

INTERNAL STANDARDS

74-97-5	Bromochloromethane	203000	2.8
540-36-3	1,4-Difluorobenzene	516000	3.981
3114-55-4	Chlorobenzene-d5	442000	8.904

TENTATIVE IDENTIFIED COMPOUNDS

115-07-1	Propene	7.50	J	1.49	ppbv
64-17-5	Ethanol	3200	J	1.73	ppbv
67-63-0	Isopropyl Alcohol	400	J	1.89	ppbv

Report of Analysis

Client:	Woodard & Curran	Date Collected:	03/31/25
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	04/03/25
Client Sample ID:	SSSG-B10-2-03312025	SDG No.:	Q1725
Lab Sample ID:	Q1725-08	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042250.D	4		04/08/25 01:17	VL040725

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
007452-79-1	Butanoic acid, 2-methyl-, ethyl es	29.6		J		9.17	ppbv
005989-27-5	D-Limonene	33.8		J		12.1	ppbv

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\VL040725\
 Data File : VL042250.D
 Acq On : 08 Apr 2025 01:17
 Operator : SY/MD
 Sample : Q1725-08 4X
 Misc : 400mL/MSVOA_L
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SSSG-B10-2-03312025

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 04/08/2025
 Supervised By :Mahesh Dadoda 04/09/2025

Quant Time: Apr 08 04:48:43 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M

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

QLast Update : Fri Mar 28 02:00:52 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.800	49	202914	10.000	ppbv	0.02
33) 1,4-Difluorobenzene	3.981	114	515559	10.000	ppbv	0.03
55) Chlorobenzene-d5	8.904	117	442488	10.000	ppbv	0.03
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.396	95	355772	9.791	ppbv	0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.900%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.505	85	3378	0.113	ppbv #	85
4) Chloromethane	1.538	50	1373	0.112	ppbv	93
9) Propene	1.492	41	26269m	1.873	ppbv	
13) Ethanol	1.729	45	1061779	800.643	ppbv	86
15) Acetone	1.842	43	997970	35.166	ppbv	98
17) tert-Butyl alcohol	2.052	59	10189m	0.288	ppbv	
19) Isopropyl Alcohol	1.894	45	1615569	100.898	ppbv #	32
20) Methylene Chloride	2.072	84	2531	0.239	ppbv	97
26) Hexane	2.842	57	3600	0.127	ppbv #	35
29) Chloroform	2.861	83	15997	0.384	ppbv	90
34) 2-Butanone	2.570	43	204814	5.479	ppbv	98
36) Benzene	3.680	78	5830m	0.114	ppbv	
52) Tetrachloroethene	8.247	164	15893	0.784	ppbv	96
53) Toluene	6.965	91	27648m	0.456	ppbv	
58) Ethyl Benzene	9.374	91	10176m	0.129	ppbv	
59) m/p-Xylene	9.555	91	29838	0.475	ppbv	95
60) o-Xylene	9.979	91	13109	0.208	ppbv	98
74) 1,2,4-Trimethylbenzene	11.552	105	13306	0.169	ppbv #	67

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

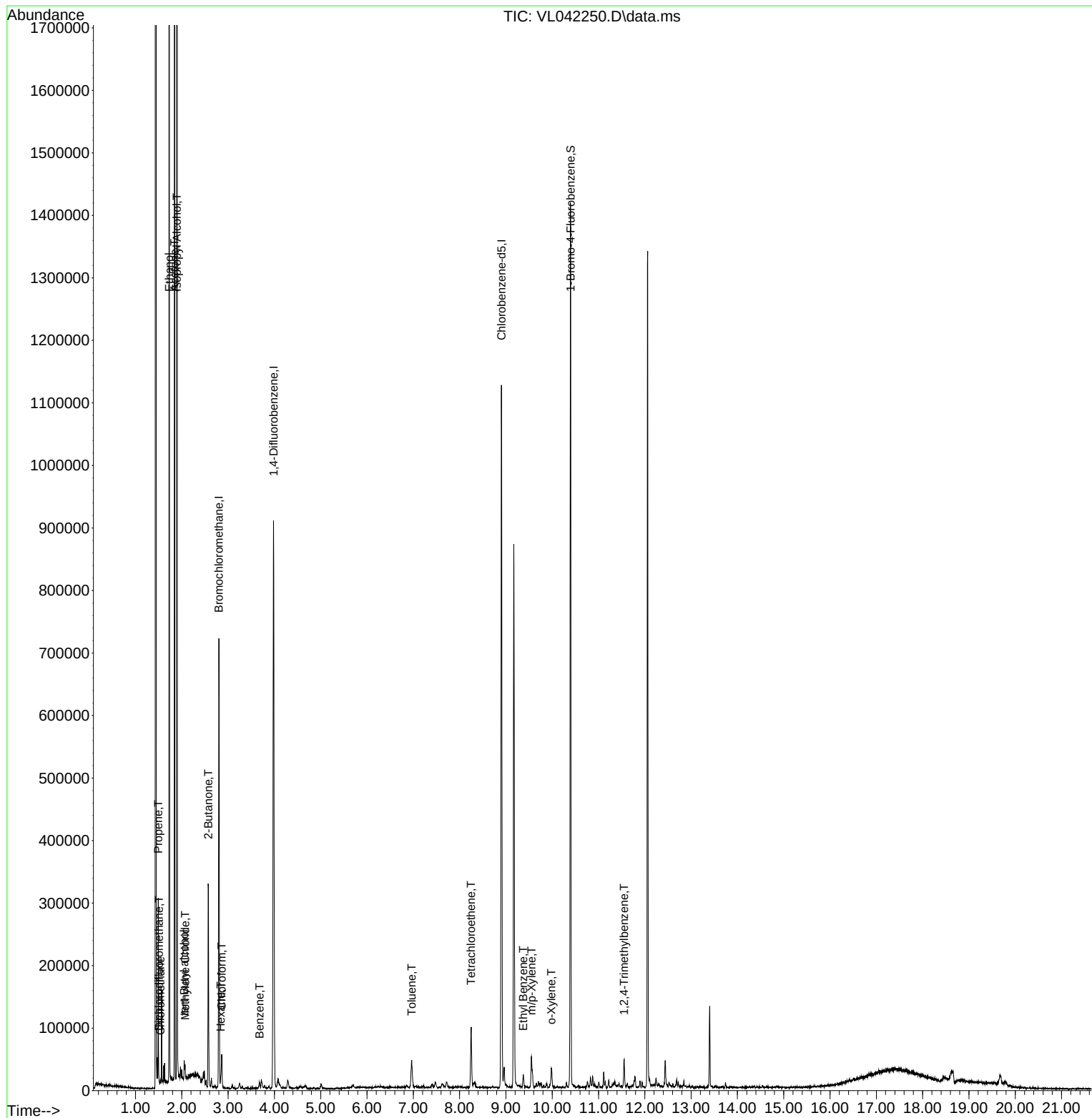
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040725\
Data File : VL042250.D
Acq On : 08 Apr 2025 01:17
Operator : SY/MD
Sample : Q1725-08 4X
Misc : 400mL/MSVOA_L
ALS Vial : 12 Sample Multiplier: 1

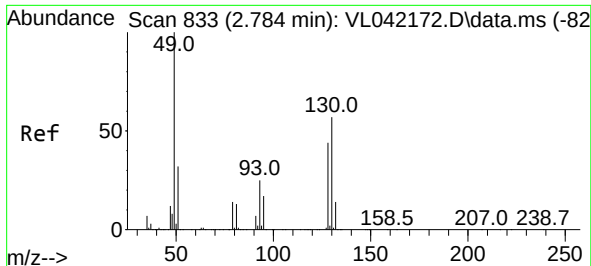
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B10-2-03312025

Quant Time: Apr 08 04:48:43 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Fri Mar 28 02:00:52 2025
Response via : Initial Calibration

Manual Integrations
APPROVED

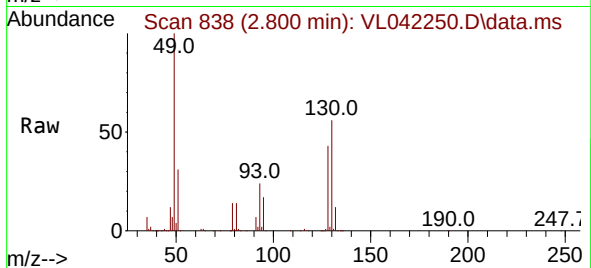
Reviewed By : Semsettin Yesilyurt 04/08/2025
Supervised By : Mahesh Dadoda 04/09/2025





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.800 min Scan# 81
Delta R.T. 0.016 min
Lab File: VL042250.D
Acq: 08 Apr 2025 01:17

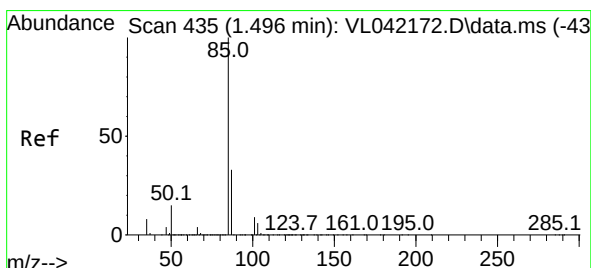
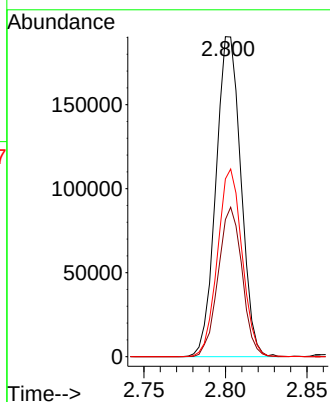
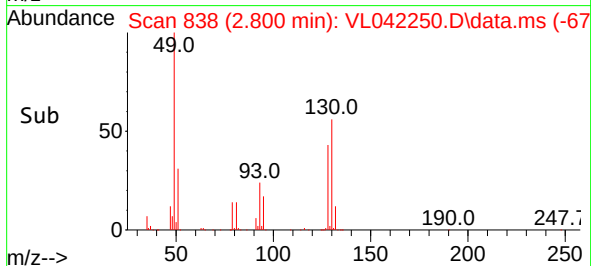
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B10-2-03312025



Tgt Ion: 49 Resp: 202914
Ion Ratio Lower Upper
49 100
128 44.7 22.9 68.5
130 57.7 28.8 86.4

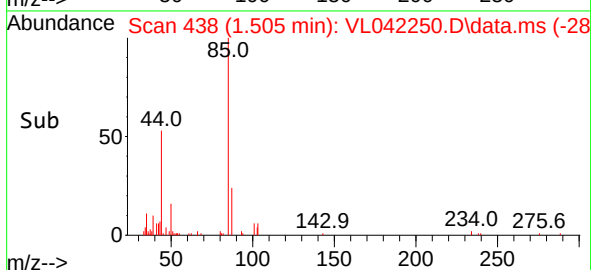
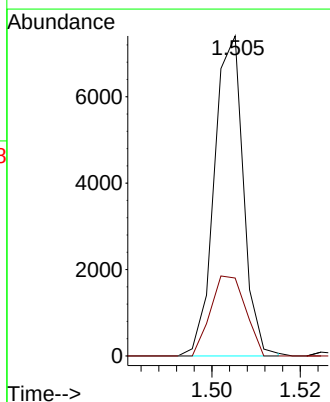
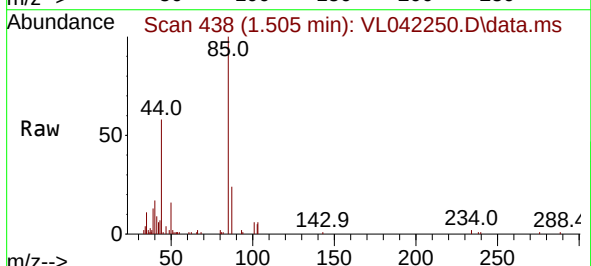
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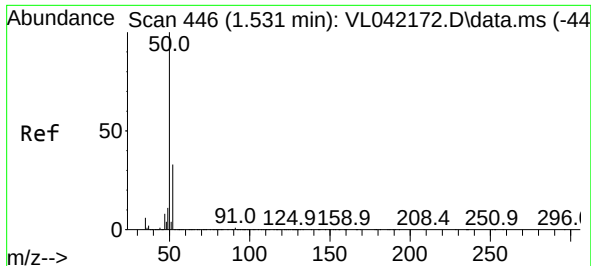
Reviewed By :Semsettin Yesilyurt 04/08/2025
Supervised By :Mahesh Dadoda 04/09/2025



#2
Dichlorodifluoromethane
Concen: 0.113 ppbv
RT: 1.505 min Scan# 438
Delta R.T. 0.010 min
Lab File: VL042250.D
Acq: 08 Apr 2025 01:17

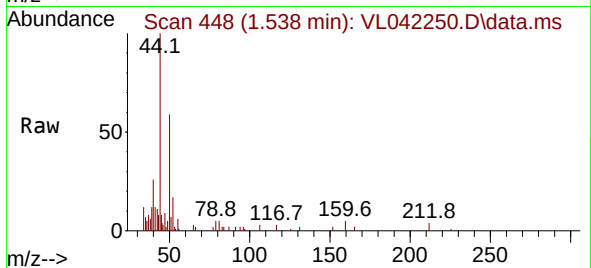
Tgt Ion: 85 Resp: 3378
Ion Ratio Lower Upper
85 100
87 24.4 26.1 39.1#





#4
Chloromethane
Concen: 0.112 ppbv
RT: 1.538 min Scan# 446
Delta R.T. 0.006 min
Lab File: VL042250.D
Acq: 08 Apr 2025 01:17

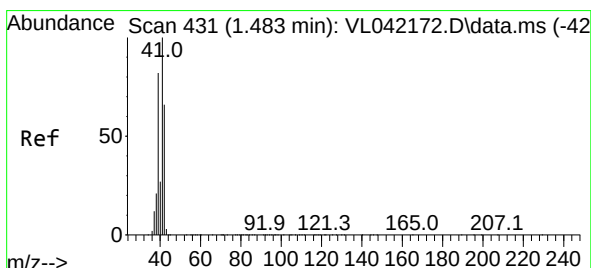
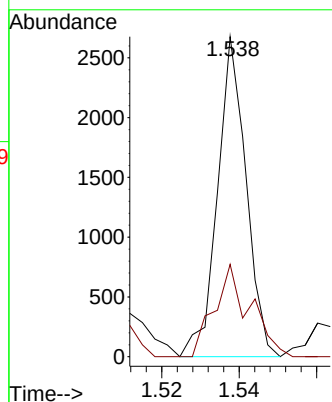
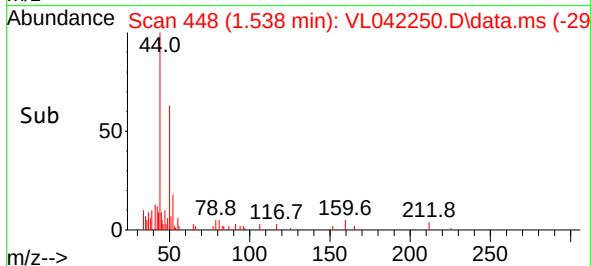
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B10-2-03312025



Tgt Ion: 50 Resp: 137
Ion Ratio Lower Upper
50 100
52 28.8 26.1 39.1

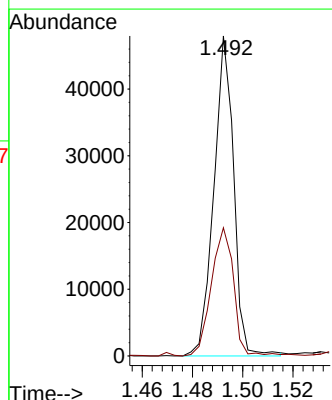
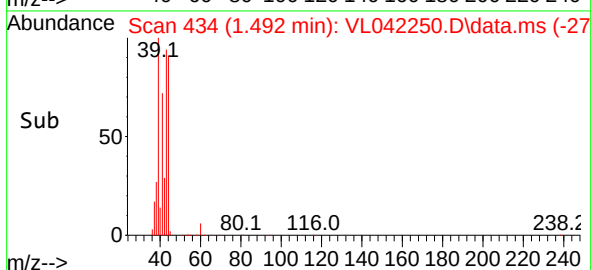
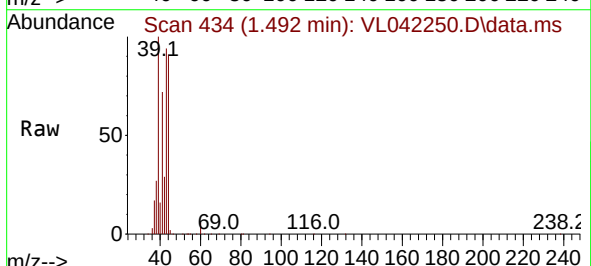
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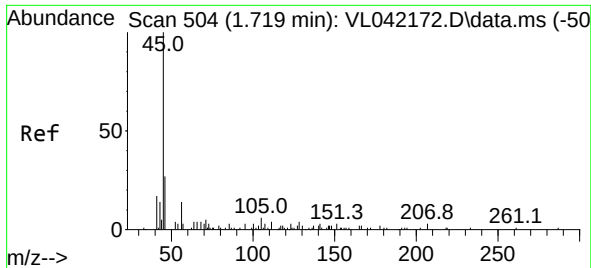
Reviewed By :Semsettin Yesilyurt 04/08/2025
Supervised By :Mahesh Dadoda 04/09/2025



#9
Propene
Concen: 1.873 ppbv m
RT: 1.492 min Scan# 434
Delta R.T. 0.010 min
Lab File: VL042250.D
Acq: 08 Apr 2025 01:17

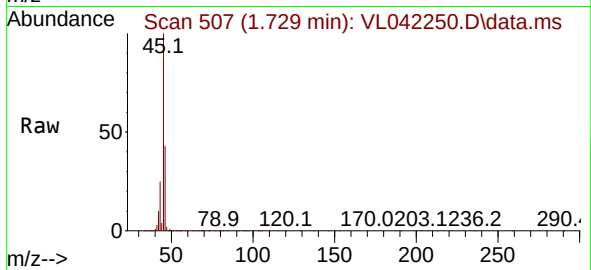
Tgt Ion: 41 Resp: 26269
Ion Ratio Lower Upper
41 100
42 410.7 55.4 83.2#





#13
Ethanol
Concen: 800.643 ppbv
RT: 1.729 min Scan# 504
Delta R.T. 0.009 min
Lab File: VL042250.D
Acq: 08 Apr 2025 01:17

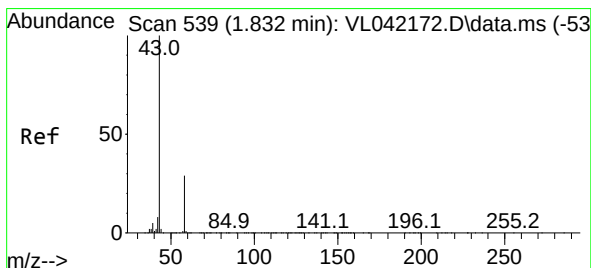
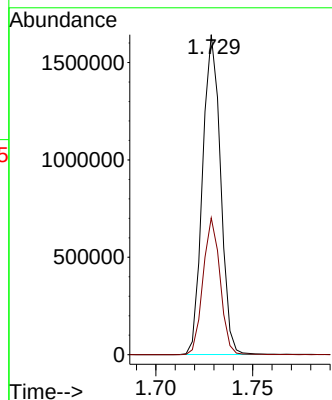
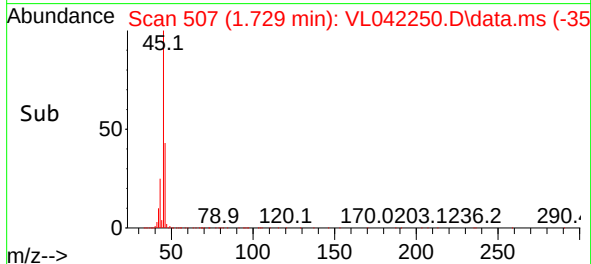
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B10-2-03312025



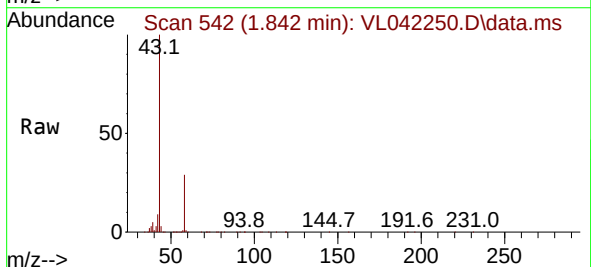
Tgt Ion: 45 Resp: 1061779
Ion Ratio Lower Upper
45 100
46 40.7 20.2 80.8

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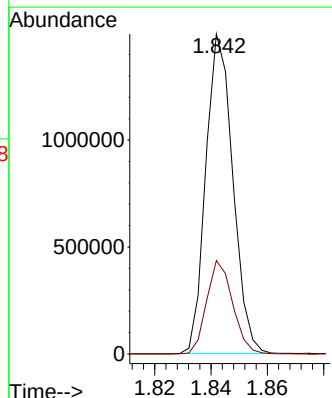
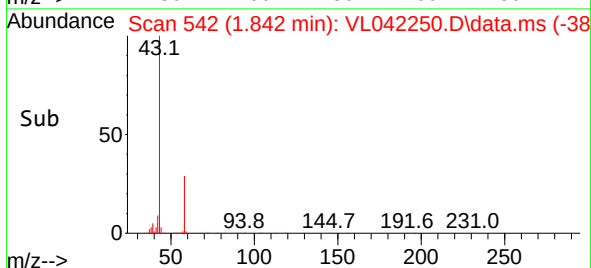
Reviewed By :Semsettin Yesilyurt 04/08/2025
Supervised By :Mahesh Dadoda 04/09/2025

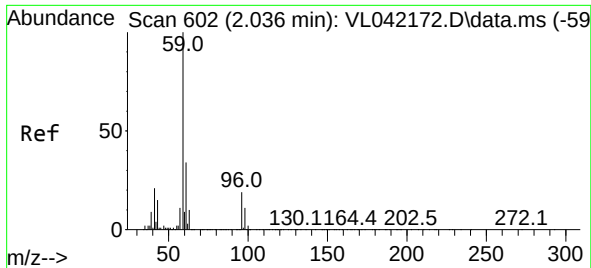


#15
Acetone
Concen: 35.166 ppbv
RT: 1.842 min Scan# 542
Delta R.T. 0.010 min
Lab File: VL042250.D
Acq: 08 Apr 2025 01:17



Tgt Ion: 43 Resp: 997970
Ion Ratio Lower Upper
43 100
58 28.1 23.2 34.8





#17

tert-Butyl alcohol

Concen: 0.288 ppbv m

RT: 2.052 min Scan# 602

Delta R.T. 0.016 min

Lab File: VL042250.D

Acq: 08 Apr 2025 01:17

Instrument :

MSVOA_L

ClientSampleId :

SSSG-B10-2-03312025

Tgt Ion: 59 Resp: 10189

Ion Ratio Lower Upper

59 100

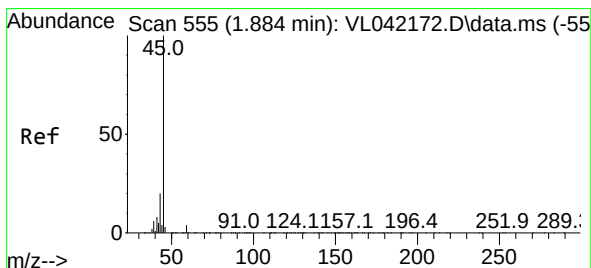
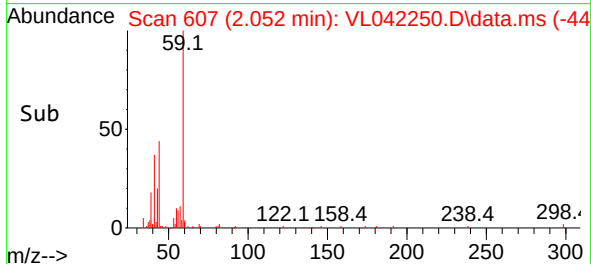
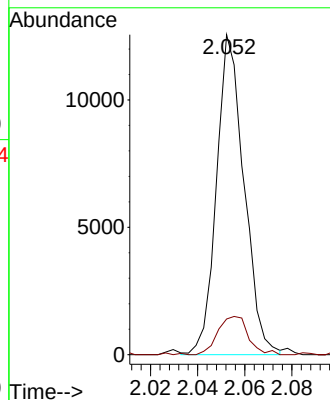
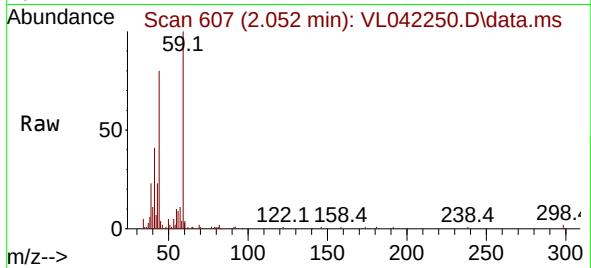
57 66.7 8.9 13.3

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/08/2025

Supervised By :Mahesh Dadoda 04/09/2025



#19

Isopropyl Alcohol

Concen: 100.898 ppbv

RT: 1.894 min Scan# 558

Delta R.T. 0.009 min

Lab File: VL042250.D

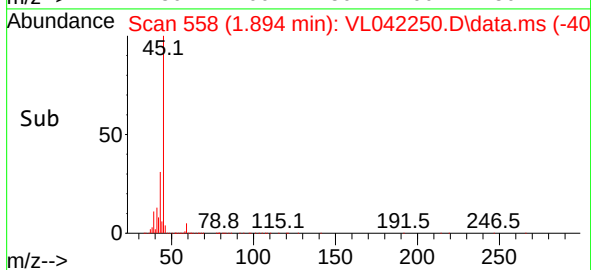
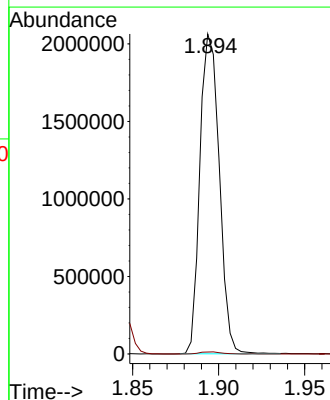
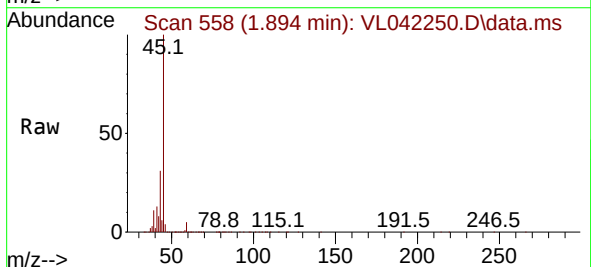
Acq: 08 Apr 2025 01:17

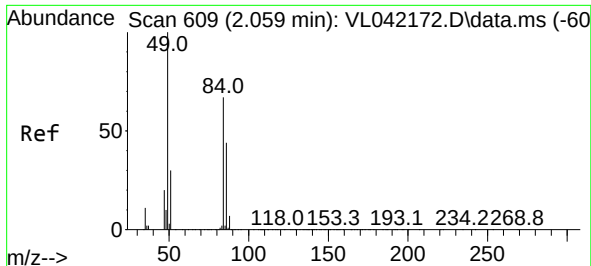
Tgt Ion: 45 Resp: 1615569

Ion Ratio Lower Upper

45 100

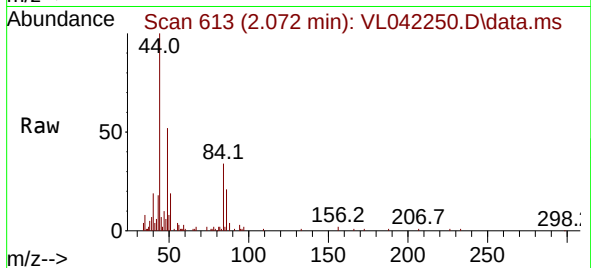
58 0.8 36.9 55.3





#20
Methylene Chloride
Concen: 0.239 ppbv
RT: 2.072 min Scan# 613
Delta R.T. 0.013 min
Lab File: VL042250.D
Acq: 08 Apr 2025 01:17

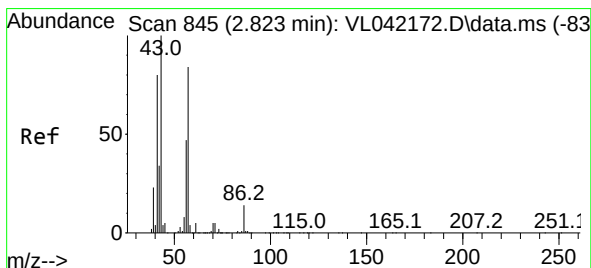
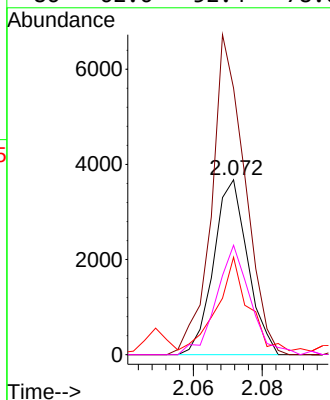
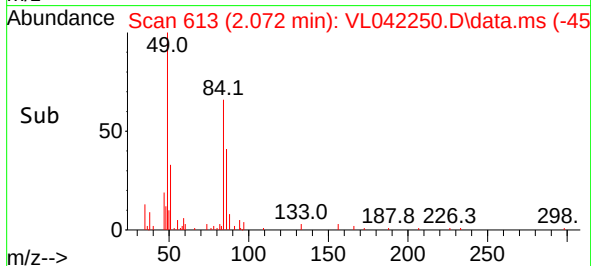
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B10-2-03312025



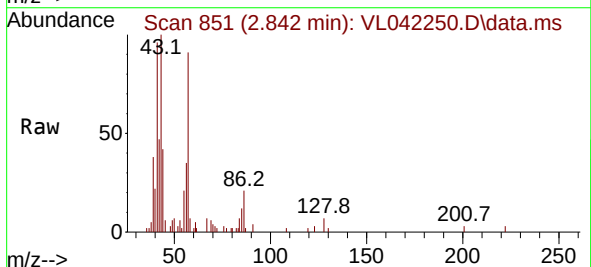
Tgt Ion:	84	Resp:	253
Ion	Ratio	Lower	Upper
84	100		
49	149.9	120.2	180.4
51	53.1	37.4	56.0
86	62.6	52.4	78.6

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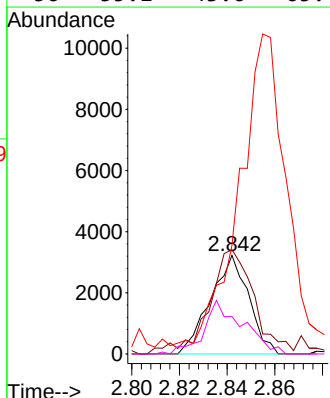
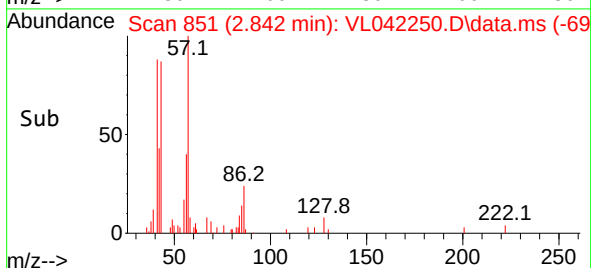
Reviewed By :Semsettin Yesilyurt 04/08/2025
Supervised By :Mahesh Dadoda 04/09/2025

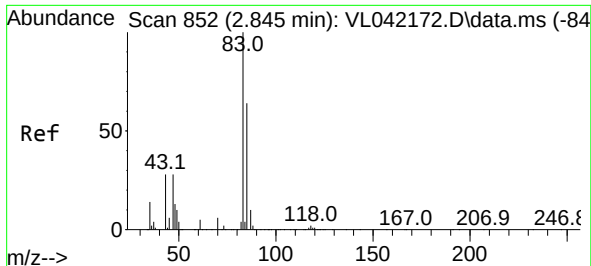


#26
Hexane
Concen: 0.127 ppbv
RT: 2.842 min Scan# 851
Delta R.T. 0.019 min
Lab File: VL042250.D
Acq: 08 Apr 2025 01:17



Tgt Ion:	57	Resp:	3600
Ion	Ratio	Lower	Upper
57	100		
41	134.7	76.6	114.8#
43	415.9	207.8	311.8#
56	55.1	43.6	65.4





#29

Chloroform

Concen: 0.384 ppbv

RT: 2.861 min Scan# 81

Delta R.T. 0.016 min

Lab File: VL042250.D

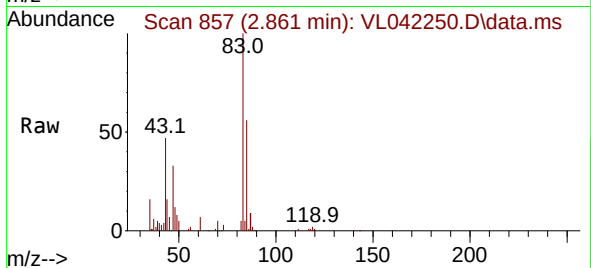
Acq: 08 Apr 2025 01:17

Instrument :

MSVOA_L

ClientSampleId :

SSSG-B10-2-03312025

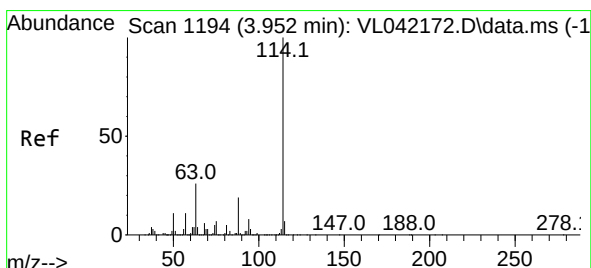
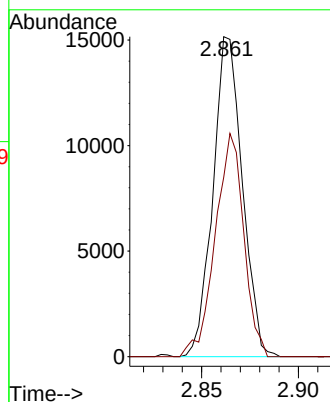


Tgt Ion: 83	Resp: 1599
Ion Ratio	Lower Upper
83	100
85	56.1 51.4 77.2

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 04/08/2025
Supervised By :Mahesh Dadoda 04/09/2025



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

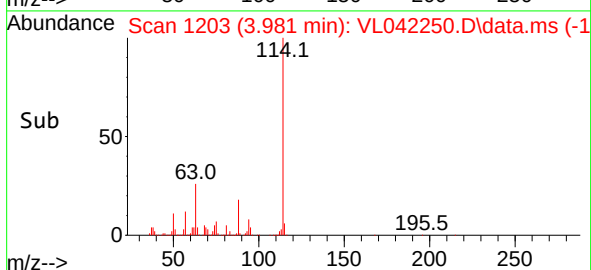
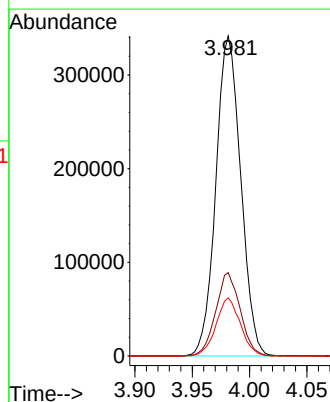
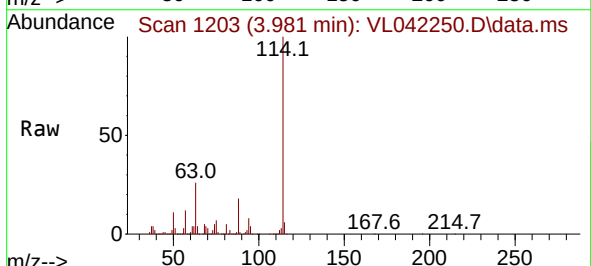
RT: 3.981 min Scan# 1203

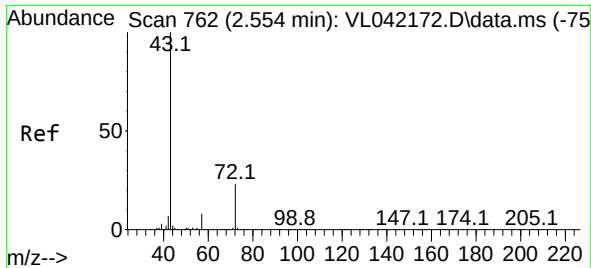
Delta R.T. 0.029 min

Lab File: VL042250.D

Acq: 08 Apr 2025 01:17

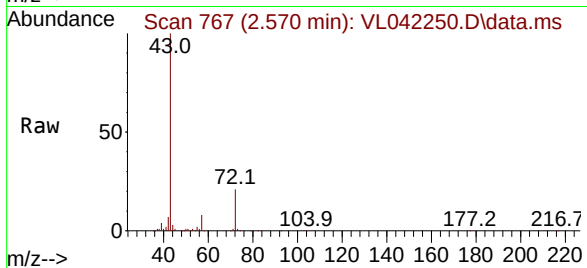
Tgt Ion:114	Resp: 515559
Ion Ratio	Lower Upper
114	100
63	25.6 20.7 31.1
88	17.7 15.0 22.4





#34
2-Butanone
Concen: 5.479 ppbv
RT: 2.570 min Scan# 70
Delta R.T. 0.016 min
Lab File: VL042250.D
Acq: 08 Apr 2025 01:17

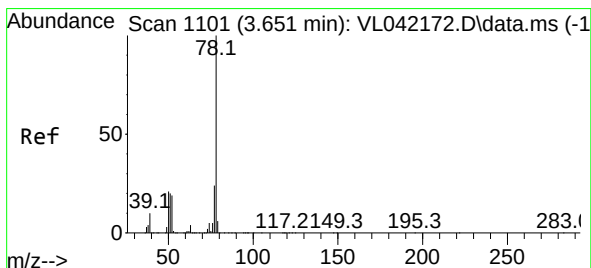
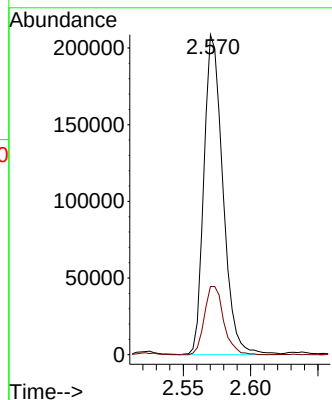
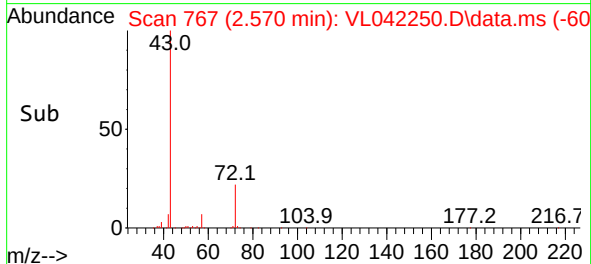
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B10-2-03312025



Tgt Ion: 43 Resp: 204814
Ion Ratio Lower Upper
43 100
72 21.6 18.2 27.2

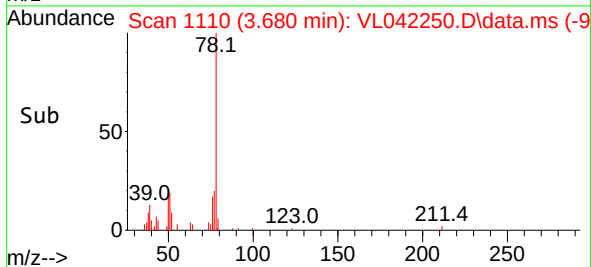
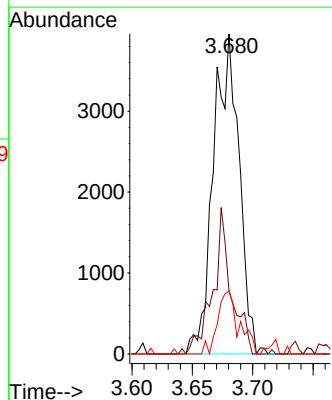
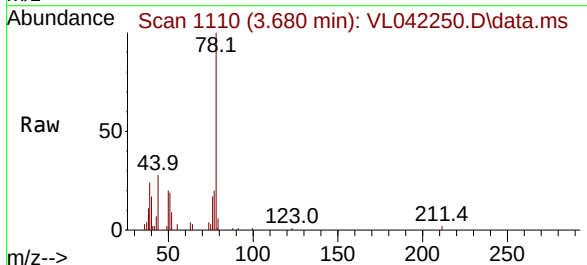
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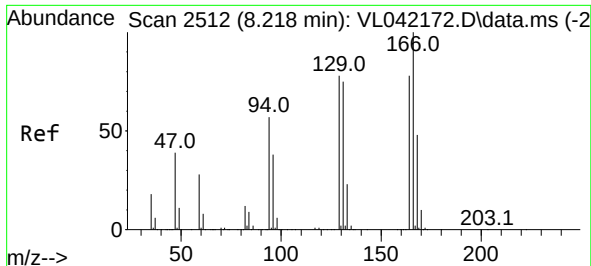
Reviewed By :Semsettin Yesilyurt 04/08/2025
Supervised By :Mahesh Dadoda 04/09/2025



#36
Benzene
Concen: 0.114 ppbv m
RT: 3.680 min Scan# 1110
Delta R.T. 0.029 min
Lab File: VL042250.D
Acq: 08 Apr 2025 01:17

Tgt Ion: 78 Resp: 5830
Ion Ratio Lower Upper
78 100
77 19.9 19.1 28.7
50 19.6 16.6 24.8





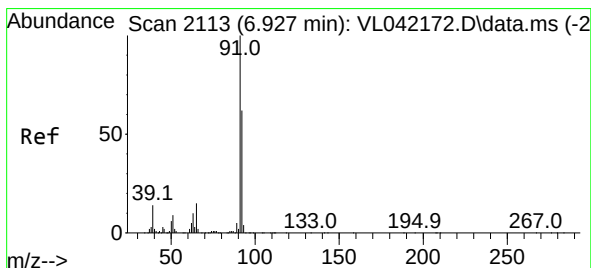
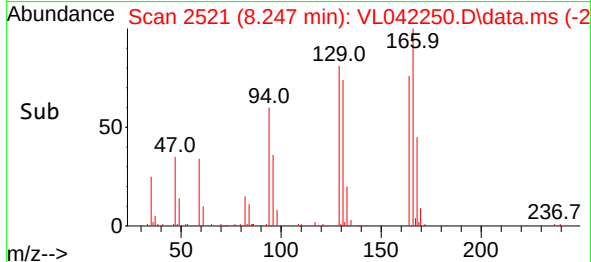
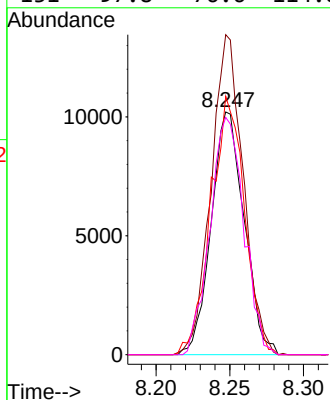
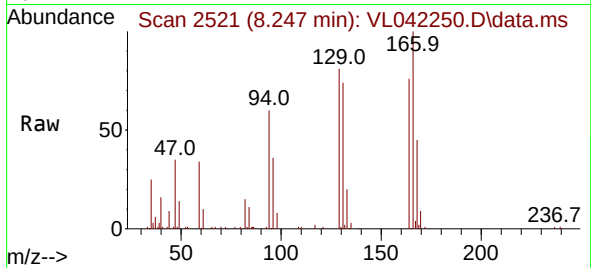
#52
Tetrachloroethene
Concen: 0.784 ppbv
RT: 8.247 min Scan# 2125
Delta R.T. 0.029 min
Lab File: VL042250.D
Acq: 08 Apr 2025 01:17

Instrument :
MSVOA_L
ClientSampleId :
SSSG-B10-2-03312025

Tgt Ion:164 Resp: 1589
Ion Ratio Lower Upper
164 100
166 131.8 102.5 153.7
129 106.5 79.8 119.8
131 97.8 76.6 114.8

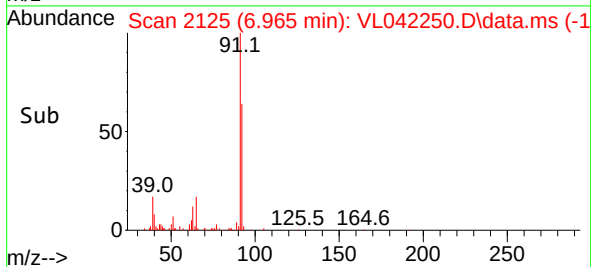
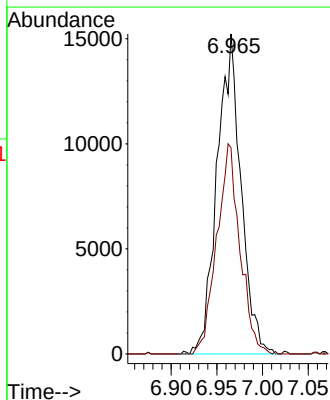
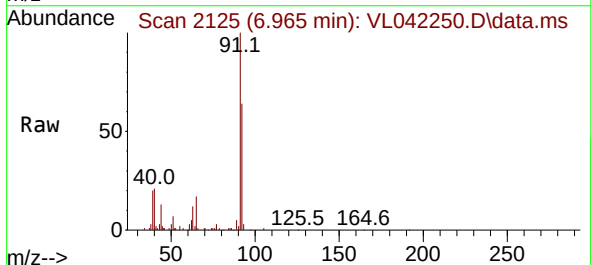
Manual Integrations
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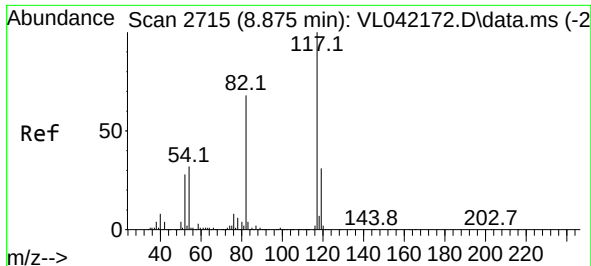
Reviewed By :Semsettin Yesilyurt 04/08/2025
Supervised By :Mahesh Dadoda 04/09/2025



#53
Toluene
Concen: 0.456 ppbv m
RT: 6.965 min Scan# 2125
Delta R.T. 0.039 min
Lab File: VL042250.D
Acq: 08 Apr 2025 01:17

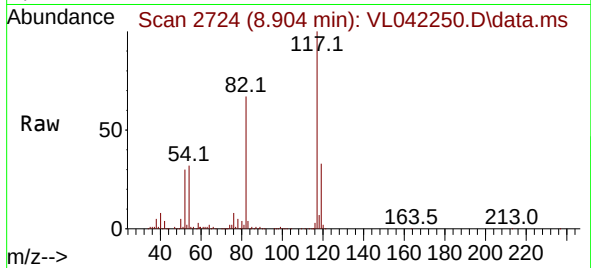
Tgt Ion: 91 Resp: 27648
Ion Ratio Lower Upper
91 100
92 0.0 48.4 72.6#





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.904 min Scan# 21
Delta R.T. 0.029 min
Lab File: VL042250.D
Acq: 08 Apr 2025 01:17

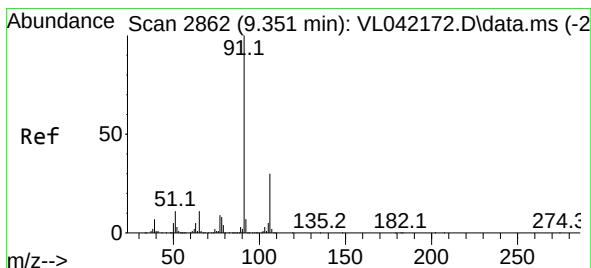
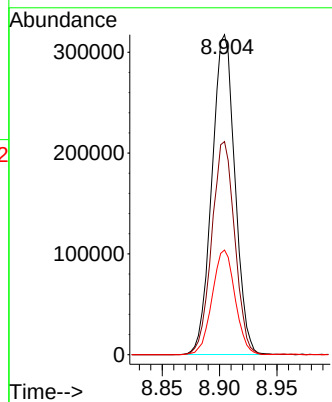
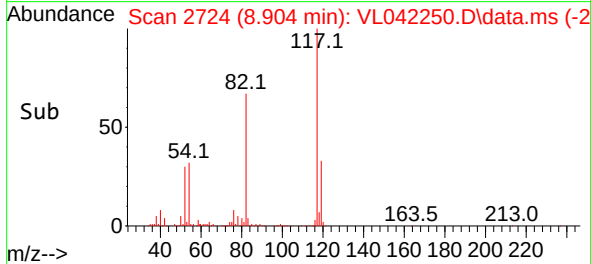
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B10-2-03312025



Tgt Ion: 117 Resp: 442488
Ion Ratio Lower Upper
117 100
82 66.7 55.8 83.6
119 32.9 25.5 38.3

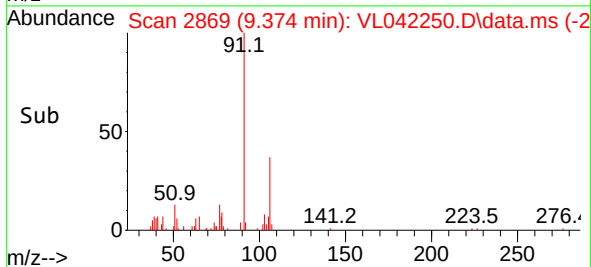
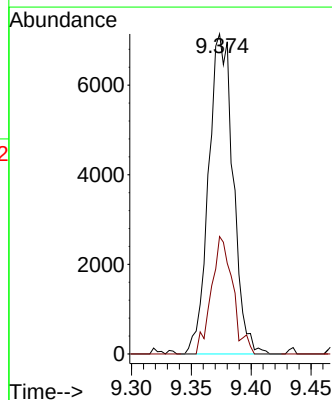
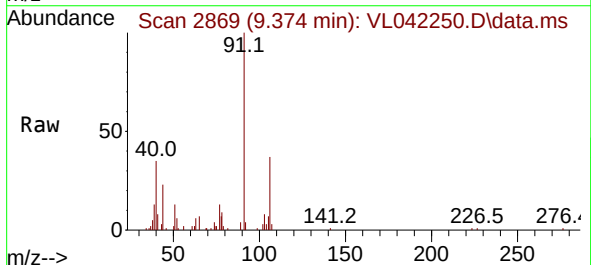
Manual Integrations
APPROVED

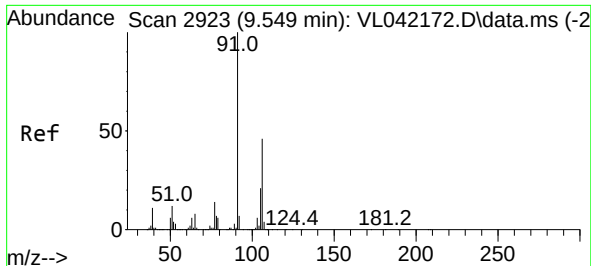
Reviewed By :Semsettin Yesilyurt 04/08/2025
Supervised By :Mahesh Dadoda 04/09/2025



#58
Ethyl Benzene
Concen: 0.129 ppbv m
RT: 9.374 min Scan# 2869
Delta R.T. 0.022 min
Lab File: VL042250.D
Acq: 08 Apr 2025 01:17

Tgt Ion: 91 Resp: 10176
Ion Ratio Lower Upper
91 100
106 36.7 24.2 36.2#





#59

m/p-Xylene

Concen: 0.475 ppbv

RT: 9.555 min Scan# 2923

Delta R.T. 0.006 min

Lab File: VL042250.D

Acq: 08 Apr 2025 01:17

Instrument :

MSVOA_L

ClientSampleId :

SSSG-B10-2-03312025

Tgt Ion: 91 Resp: 2983

Ion Ratio Lower Upper

91 100

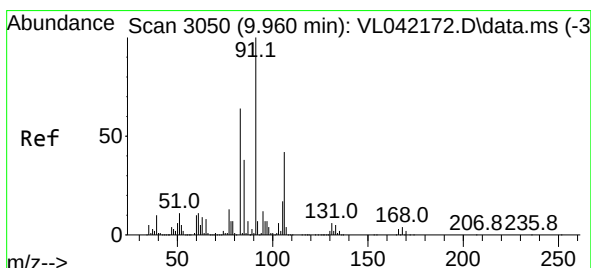
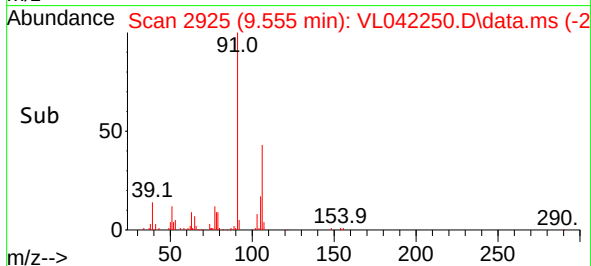
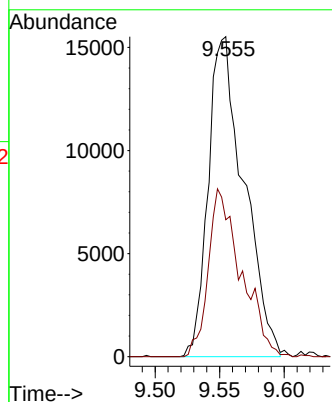
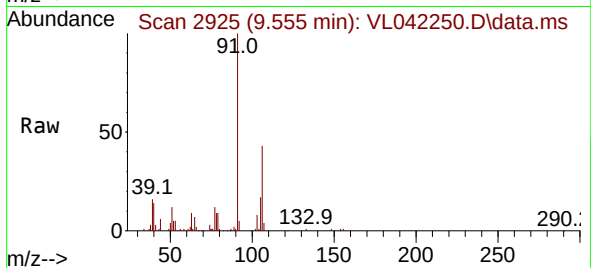
106 48.5 36.4 54.6

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/08/2025

Supervised By :Mahesh Dadoda 04/09/2025



#60

o-Xylene

Concen: 0.208 ppbv

RT: 9.979 min Scan# 3056

Delta R.T. 0.019 min

Lab File: VL042250.D

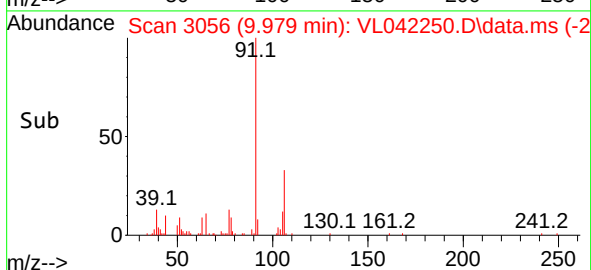
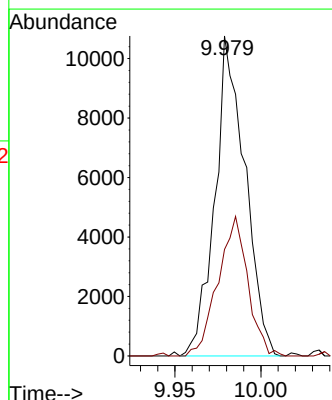
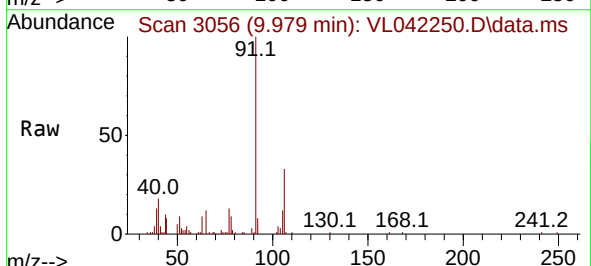
Acq: 08 Apr 2025 01:17

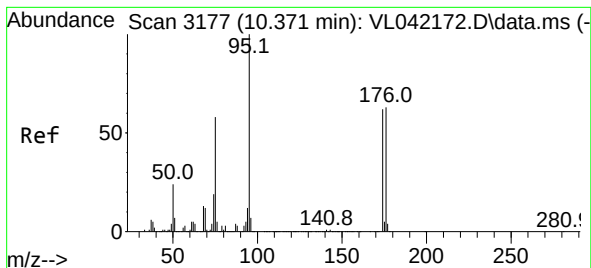
Tgt Ion: 91 Resp: 13109

Ion Ratio Lower Upper

91 100

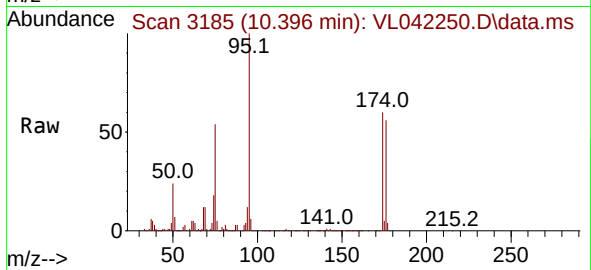
106 43.1 20.8 62.5





#68
1-Bromo-4-Fluorobenzene
Concen: 9.791 ppbv
RT: 10.396 min Scan# 3177
Delta R.T. 0.026 min
Lab File: VL042250.D
Acq: 08 Apr 2025 01:17

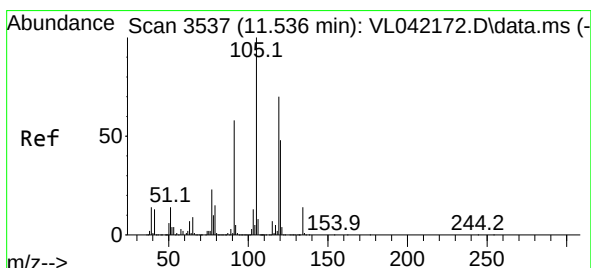
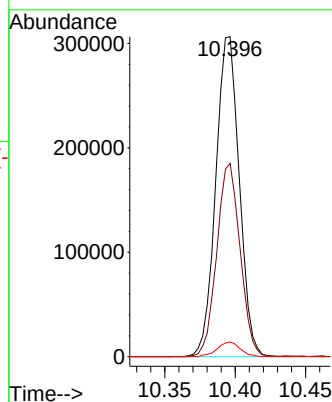
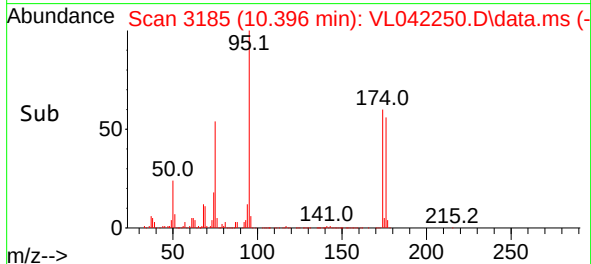
Instrument : MSVOA_L
ClientSampleId : SSSG-B10-2-03312025



Tgt Ion: 95 Resp: 355772
Ion Ratio Lower Upper
95 100
174 60.1 50.6 76.0
175 4.5 3.8 5.6

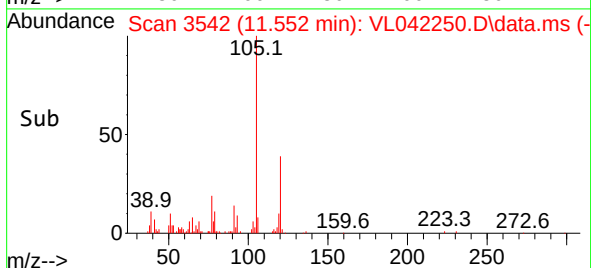
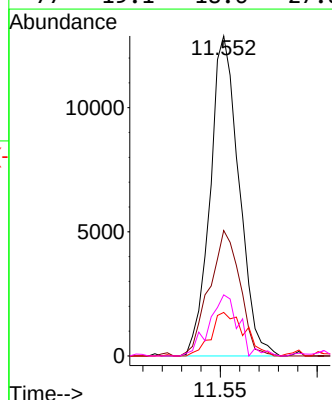
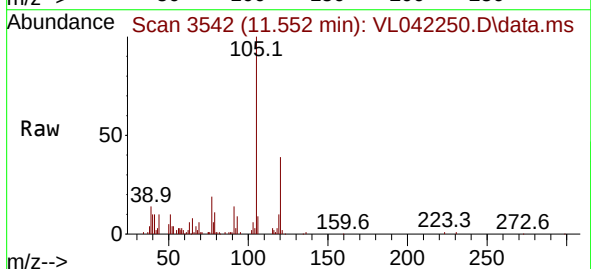
Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 04/08/2025
Supervised By :Mahesh Dadoda 04/09/2025



#74
1,2,4-Trimethylbenzene
Concen: 0.169 ppbv
RT: 11.552 min Scan# 3542
Delta R.T. 0.016 min
Lab File: VL042250.D
Acq: 08 Apr 2025 01:17

Tgt Ion:105 Resp: 13306
Ion Ratio Lower Upper
105 100
120 39.2 38.6 58.0
91 13.6 46.2 69.2#
77 19.1 18.6 27.8



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040725\
 Data File : VL042250.D
 Acq On : 08 Apr 2025 01:17
 Operator : SY/MD
 Sample : Q1725-08 4X
 Misc : 400mL/MSVOA_L
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SSSG-B10-2-03312025

Integration Parameters: RTEINT.P

Integrator: RTE

Smoothing : ON

Filtering: 5

Sampling : 3

Min Area: 3 % of largest Peak

Start Thrs: 0.001

Max Peaks: 100

Stop Thrs : 0

Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >

Peak separation: 0

Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M

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

Signal : TIC: VL042250.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.434	411	416	422	rBV	4492919	5124373	100.00%	24.761%
2	1.492	430	434	443	rVB	297969	162176	3.16%	0.784%
3	1.564	452	456	460	rBV	148915	84508	1.65%	0.408%
4	1.729	502	507	514	rBV	3082608	1939692	37.85%	9.372%
5	1.842	538	542	553	rBV	2357941	1567991	30.60%	7.576%
6	1.894	553	558	571	rBV	3875144	2851049	55.64%	13.776%
7	2.570	762	767	780	rBV	324753	318977	6.22%	1.541%
8	2.803	831	839	846	rBV	717451	752038	14.68%	3.634%
9	2.861	846	857	867	rVB4	54377	86688	1.69%	0.419%
10	3.981	1186	1203	1221	rBV	908099	1376068	26.85%	6.649%
11	6.965	2110	2125	2142	rBV	44607	91700	1.79%	0.443%
12	8.250	2510	2522	2533	rBV3	97022	154460	3.01%	0.746%
13	8.904	2706	2724	2735	rBV	1124419	1588270	30.99%	7.674%
14	9.170	2796	2806	2820	rBV	868864	1176622	22.96%	5.685%
15	9.552	2913	2924	2929	rBV3	49948	76587	1.49%	0.370%
16	9.982	3042	3057	3068	rBV5	31409	57667	1.13%	0.279%
17	10.393	3170	3184	3197	rBV	1415377	1671963	32.63%	8.079%
18	11.555	3531	3543	3552	rBV4	44777	64432	1.26%	0.311%
19	12.060	3682	3699	3708	rBV	1338467	1341211	26.17%	6.481%
20	12.439	3805	3816	3827	rBV8	42462	64097	1.25%	0.310%
21	13.400	4104	4113	4122	rBV	129319	145001	2.83%	0.701%

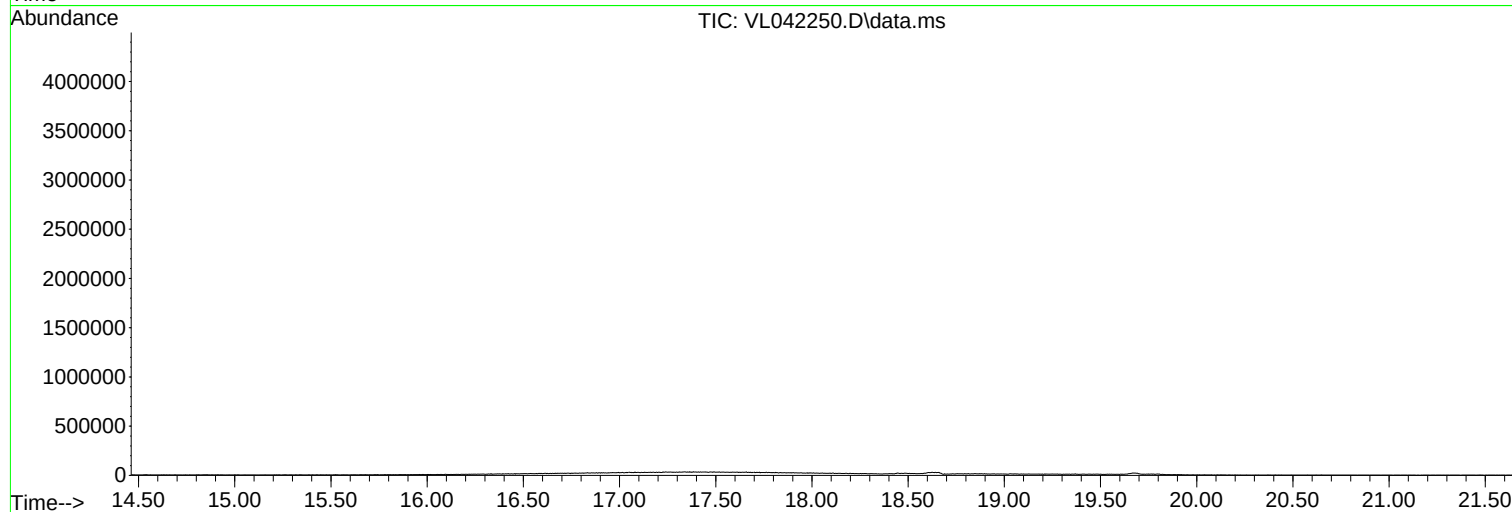
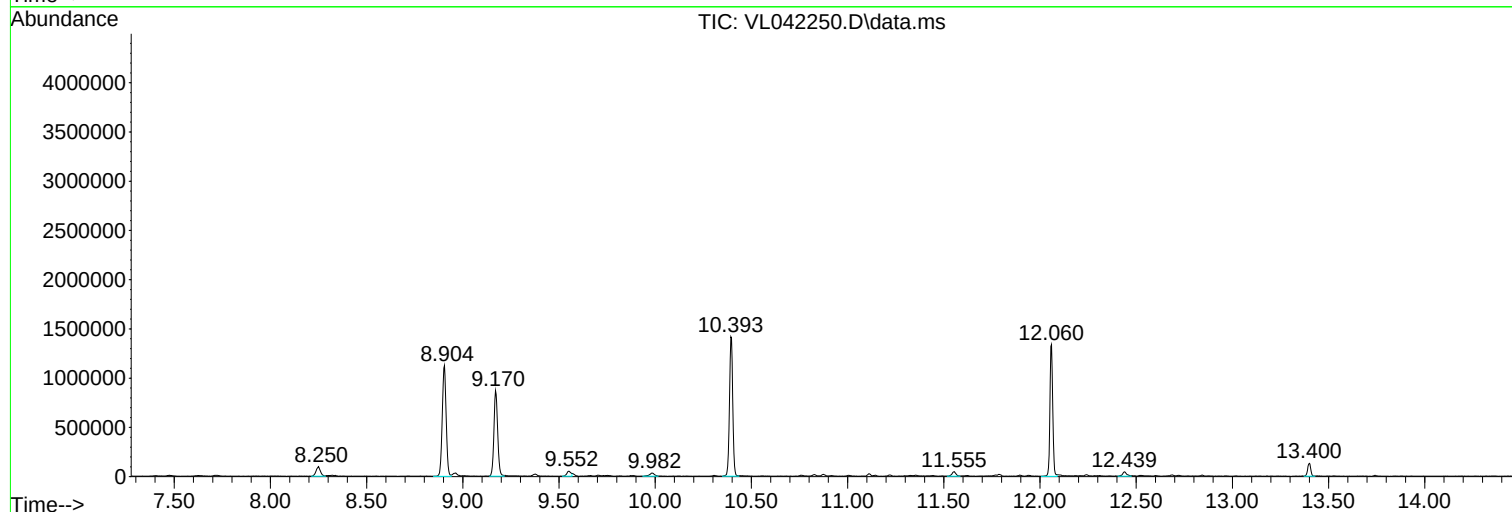
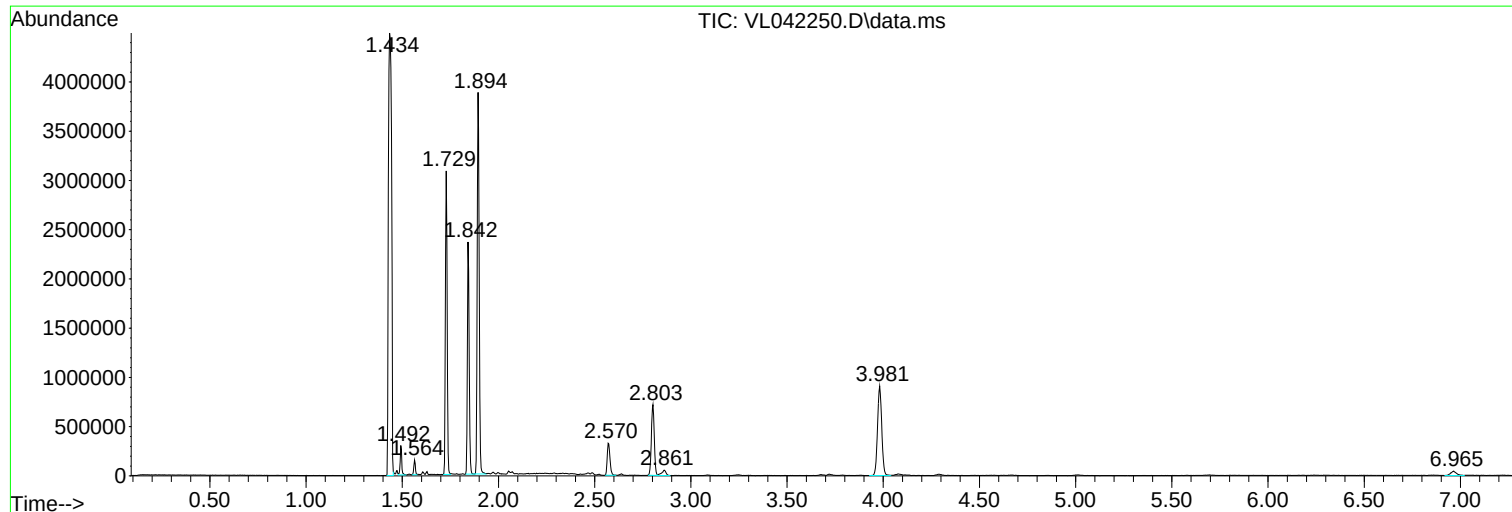
Sum of corrected areas: 20695570

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040725\
Data File : VL042250.D
Acq On : 08 Apr 2025 01:17
Operator : SY/MD
Sample : Q1725-08 4X
Misc : 400mL/MSVOA_L
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
SSSG-B10-2-03312025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040725\
Data File : VL042250.D
Acq On : 08 Apr 2025 01:17
Operator : SY/MD
Sample : Q1725-08 4X
Misc : 400mL/MSVOA_L
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
SSSG-B10-2-03312025

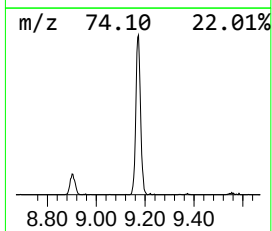
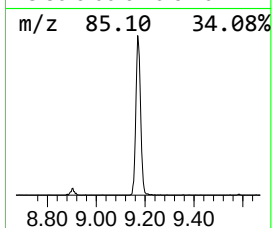
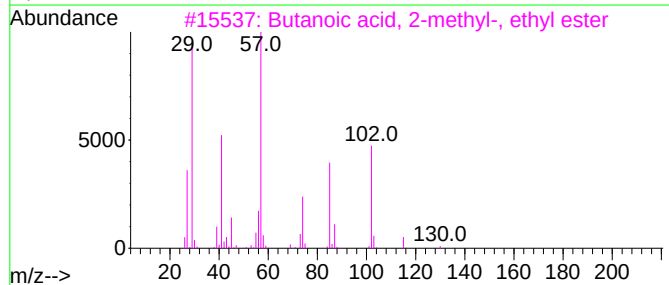
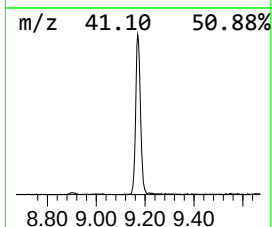
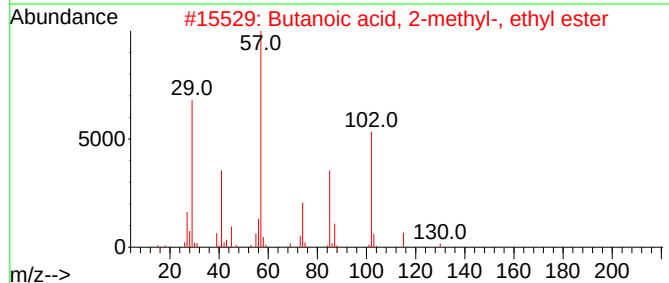
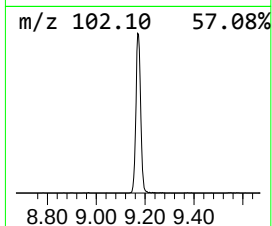
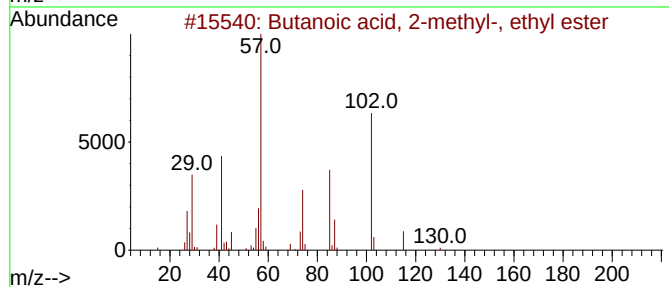
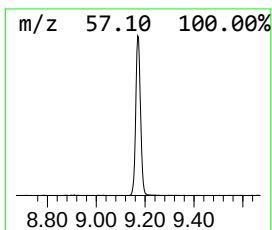
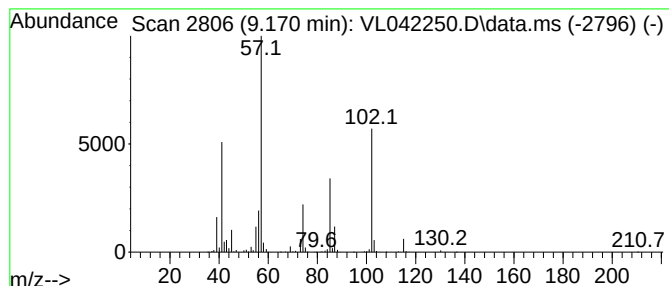
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

Peak Number 2 Butanoic acid, 2-methyl-, e... Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.170	7.41 ppbv	1176620	Chlorobenzene-d5	8.904

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Butanoic acid, 2-methyl-, ethyl ...	130	C7H14O2	007452-79-1	95
2			Butanoic acid, 2-methyl-, ethyl ...	130	C7H14O2	007452-79-1	90
3			Butanoic acid, 2-methyl-, ethyl ...	130	C7H14O2	007452-79-1	90
4			Butanoic acid, 2-methyl-, ethyl ...	130	C7H14O2	007452-79-1	74
5			Butanoic acid, 2-methyl-, ethyl ...	130	C7H14O2	007452-79-1	64



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040725\
Data File : VL042250.D
Acq On : 08 Apr 2025 01:17
Operator : SY/MD
Sample : Q1725-08 4X
Misc : 400mL/MSVOA_L
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
SSSG-B10-2-03312025

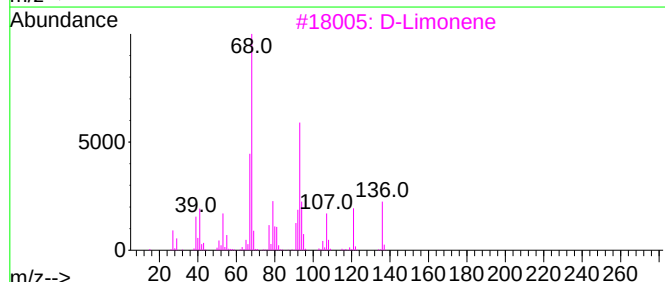
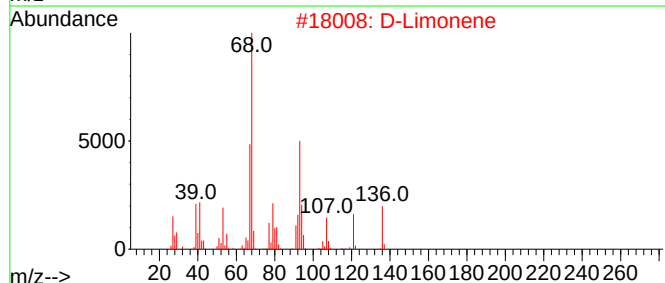
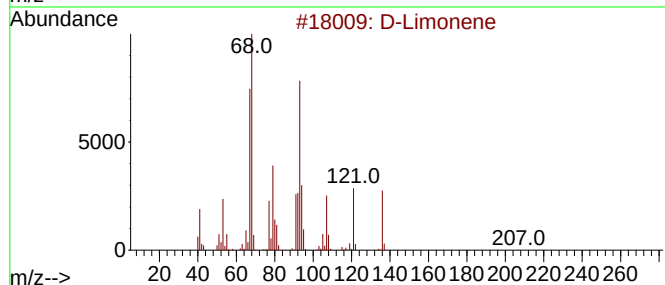
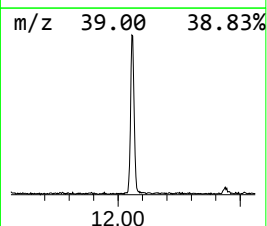
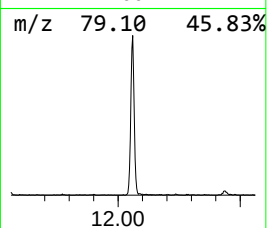
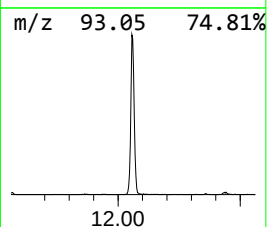
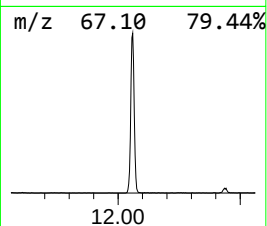
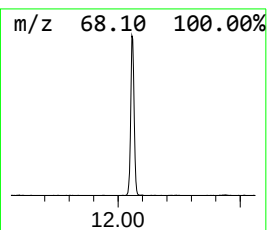
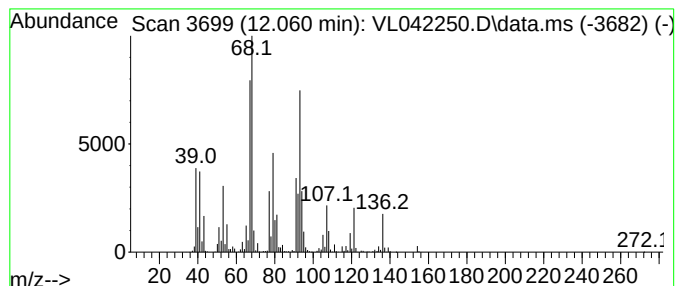
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

Peak Number 3 D-Limonene Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.060	8.44 ppbv	1341210	Chlorobenzene-d5	8.904

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			D-Limonene	136	C10H16	005989-27-5	96
2			D-Limonene	136	C10H16	005989-27-5	93
3			D-Limonene	136	C10H16	005989-27-5	93
4			Cyclohexene, 1-methyl-4-(1-methy...	136	C10H16	005989-54-8	91
5			Limonene	136	C10H16	000138-86-3	89



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040725\
Data File : VL042250.D
Acq On : 08 Apr 2025 01:17
Operator : SY/MD
Sample : Q1725-08 4X
Misc : 400mL/MSVOA_L
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
SSSG-B10-2-03312025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	--Internal Standard--			
					#	RT	Resp	Conc
Butanoic acid, ...	9.170	7.4	ppbv	1176620	3	8.904	1588270	10.0
D-Limonene	12.060	8.4	ppbv	1341210	3	8.904	1588270	10.0

Report of Analysis

Client:	Woodard & Curran	Date Collected:	03/31/25
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	04/03/25
Client Sample ID:	SSSG-B10-2-03312025DL	SDG No.:	Q1725
Lab Sample ID:	Q1725-08DL	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042251.D	40		04/08/25 01:48	VL040725

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	8.40	41.5	UD	41.5	98.9	ug/m3
74-87-3	Chloromethane	3.90	8.05	UD	8.05	41.3	ug/m3
75-01-4	Vinyl Chloride	0.56	1.43	UD	1.43	3.07	ug/m3
74-83-9	Bromomethane	5.60	21.7	UD	21.7	77.7	ug/m3
75-00-3	Chloroethane	6.80	17.9	UD	17.9	52.8	ug/m3
109-99-9	Tetrahydrofuran	5.20	15.3	UD	15.3	59.0	ug/m3
75-69-4	Trichlorofluoromethane	6.40	36.0	UD	36.0	112	ug/m3
76-13-1	1,1,2-Trichlorotrifluoroethane	6.40	49.0	UD	49.0	153	ug/m3
76-14-2	Dichlorotetrafluoroethane	3.50	24.5	UD	24.5	140	ug/m3
75-65-0	tert-Butyl alcohol	7.60	23.0	UD	23.0	60.6	ug/m3
142-82-5	Heptane	4.40	18.0	UD	18.0	82.0	ug/m3
75-35-4	1,1-Dichloroethene	5.60	22.2	UD	22.2	79.3	ug/m3
67-64-1	Acetone	160	380	D	22.8	47.5	ug/m3
75-15-0	Carbon Disulfide	6.40	19.9	UD	19.9	62.3	ug/m3
1634-04-4	Methyl tert-Butyl Ether	4.80	17.3	UD	17.3	72.1	ug/m3
75-09-2	Methylene Chloride	7.60	26.4	UD	26.4	69.5	ug/m3
156-60-5	trans-1,2-Dichloroethene	7.60	30.1	UD	30.1	79.3	ug/m3
75-34-3	1,1-Dichloroethane	5.20	21.1	UD	21.1	81.0	ug/m3
110-82-7	Cyclohexane	8.80	30.3	UD	30.3	68.8	ug/m3
78-93-3	2-Butanone	21.0	61.9	D	14.2	59.0	ug/m3
56-23-5	Carbon Tetrachloride	0.44	2.77	UD	2.77	7.55	ug/m3
156-59-2	cis-1,2-Dichloroethene	3.60	14.3	UD	14.3	79.3	ug/m3
67-66-3	Chloroform	3.30	16.1	UD	16.1	97.7	ug/m3
71-55-6	1,1,1-Trichloroethane	0.38	2.07	UD	2.07	6.55	ug/m3
540-84-1	2,2,4-Trimethylpentane	4.00	18.7	UD	18.7	93.4	ug/m3
71-43-2	Benzene	3.50	11.2	UD	11.2	63.9	ug/m3
107-06-2	1,2-Dichloroethane	3.60	14.6	UD	14.6	81.0	ug/m3
79-01-6	Trichloroethene	0.68	3.65	UD	3.65	6.45	ug/m3
78-87-5	1,2-Dichloropropane	4.40	20.3	UD	20.3	92.4	ug/m3
75-27-4	Bromodichloromethane	3.10	20.8	UD	20.8	134	ug/m3
108-10-1	4-Methyl-2-Pentanone	3.70	15.2	UD	15.2	82.0	ug/m3
108-88-3	Toluene	4.40	16.6	UD	16.6	75.4	ug/m3
10061-02-6	t-1,3-Dichloropropene	2.40	10.9	UD	10.9	90.8	ug/m3
10061-01-5	cis-1,3-Dichloropropene	2.60	11.8	UD	11.8	90.8	ug/m3
79-00-5	1,1,2-Trichloroethane	2.80	15.3	UD	15.3	109	ug/m3

Report of Analysis

Client:	Woodard & Curran	Date Collected:	03/31/25
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	04/03/25
Client Sample ID:	SSSG-B10-2-03312025DL	SDG No.:	Q1725
Lab Sample ID:	Q1725-08DL	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042251.D	40		04/08/25 01:48	VL040725

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
124-48-1	Dibromochloromethane	2.60	22.1	UD	22.1	170	ug/m3
106-93-4	1,2-Dibromoethane	2.90	22.3	UD	22.3	30.7	ug/m3
127-18-4	Tetrachloroethene	3.00	20.3	D	4.07	8.14	ug/m3
108-90-7	Chlorobenzene	3.00	13.8	UD	13.8	92.1	ug/m3
100-41-4	Ethyl Benzene	4.80	20.9	UD	20.9	86.9	ug/m3
179601-23-1	m/p-Xylene	8.40	36.5	UD	36.5	174	ug/m3
95-47-6	o-Xylene	4.80	20.9	UD	20.9	86.9	ug/m3
100-42-5	Styrene	4.40	18.7	UD	18.7	85.2	ug/m3
75-25-2	Bromoform	2.30	23.8	UD	23.8	207	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	0.44	3.02	UD	3.02	8.24	ug/m3
95-49-8	2-Chlorotoluene	4.40	22.8	UD	22.8	104	ug/m3
108-67-8	1,3,5-Trimethylbenzene	4.40	21.6	UD	21.6	98.3	ug/m3
95-63-6	1,2,4-Trimethylbenzene	3.10	15.2	UD	15.2	98.3	ug/m3
541-73-1	1,3-Dichlorobenzene	3.20	19.2	UD	19.2	120	ug/m3
106-46-7	1,4-Dichlorobenzene	2.10	12.6	UD	12.6	120	ug/m3
95-50-1	1,2-Dichlorobenzene	3.00	18.0	UD	18.0	120	ug/m3
120-82-1	1,2,4-Trichlorobenzene	3.40	25.2	UD	25.2	148	ug/m3
87-68-3	Hexachloro-1,3-Butadiene	3.40	36.3	UD	36.3	213	ug/m3
106-99-0	1,3-Butadiene	5.20	11.5	UD	11.5	44.3	ug/m3
91-20-3	Naphthalene	3.00	15.7	UD	15.7	21.0	ug/m3
622-96-8	4-Ethyltoluene	4.80	23.6	UD	23.6	98.3	ug/m3
110-54-3	Hexane	4.40	15.5	UD	15.5	70.5	ug/m3
107-05-1	Allyl Chloride	6.00	18.8	UD	18.8	62.6	ug/m3
123-91-1	1,4-Dioxane	8.40	30.3	UD	30.3	72.1	ug/m3
80-62-6	Methyl Methacrylate	3.40	13.9	UD	13.9	81.9	ug/m3
SURROGATES							
460-00-4	1-Bromo-4-Fluorobenzene	9.30			70 (65) - 130 (135)	93%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	195000		2.803			
540-36-3	1,4-Difluorobenzene	495000		3.985			
3114-55-4	Chlorobenzene-d5	425000		8.907			

Report of Analysis

Client:	Woodard & Curran	Date Collected:	03/31/25
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	04/03/25
Client Sample ID:	SSSG-B10-2-03312025DL	SDG No.:	Q1725
Lab Sample ID:	Q1725-08DL	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042251.D	40		04/08/25 01:48	VL040725

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units

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\VL040725\
 Data File : VL042251.D
 Acq On : 08 Apr 2025 01:48
 Operator : SY/MD
 Sample : Q1725-08DL 40X
 Misc : 400mL/MSVOA_L
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SSSG-B10-2-03312025DL

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 04/08/2025
 Supervised By :Mahesh Dadoda 04/09/2025

Quant Time: Apr 08 04:49:19 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M

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

QLast Update : Fri Mar 28 02:00:52 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.803	49	194708	10.000	ppbv	0.02
33) 1,4-Difluorobenzene	3.985	114	494678	10.000	ppbv	0.03
55) Chlorobenzene-d5	8.907	117	424907	10.000	ppbv	0.03
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.396	95	324876	9.310	ppbv	0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	93.100%
Target Compounds						
					Qvalue	
9) Propene	1.496	41	2943	0.219	ppbv	100
13) Ethanol	1.732	45	119090	93.585	ppbv	81
15) Acetone	1.845	43	109482	4.020	ppbv	96
19) Isopropyl Alcohol	1.897	45	196635	12.798	ppbv #	33
20) Methylene Chloride	2.072	84	1654	0.163	ppbv #	92
34) 2-Butanone	2.577	43	18789	0.524	ppbv	94
52) Tetrachloroethene	8.250	164	1481m	0.076	ppbv	

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

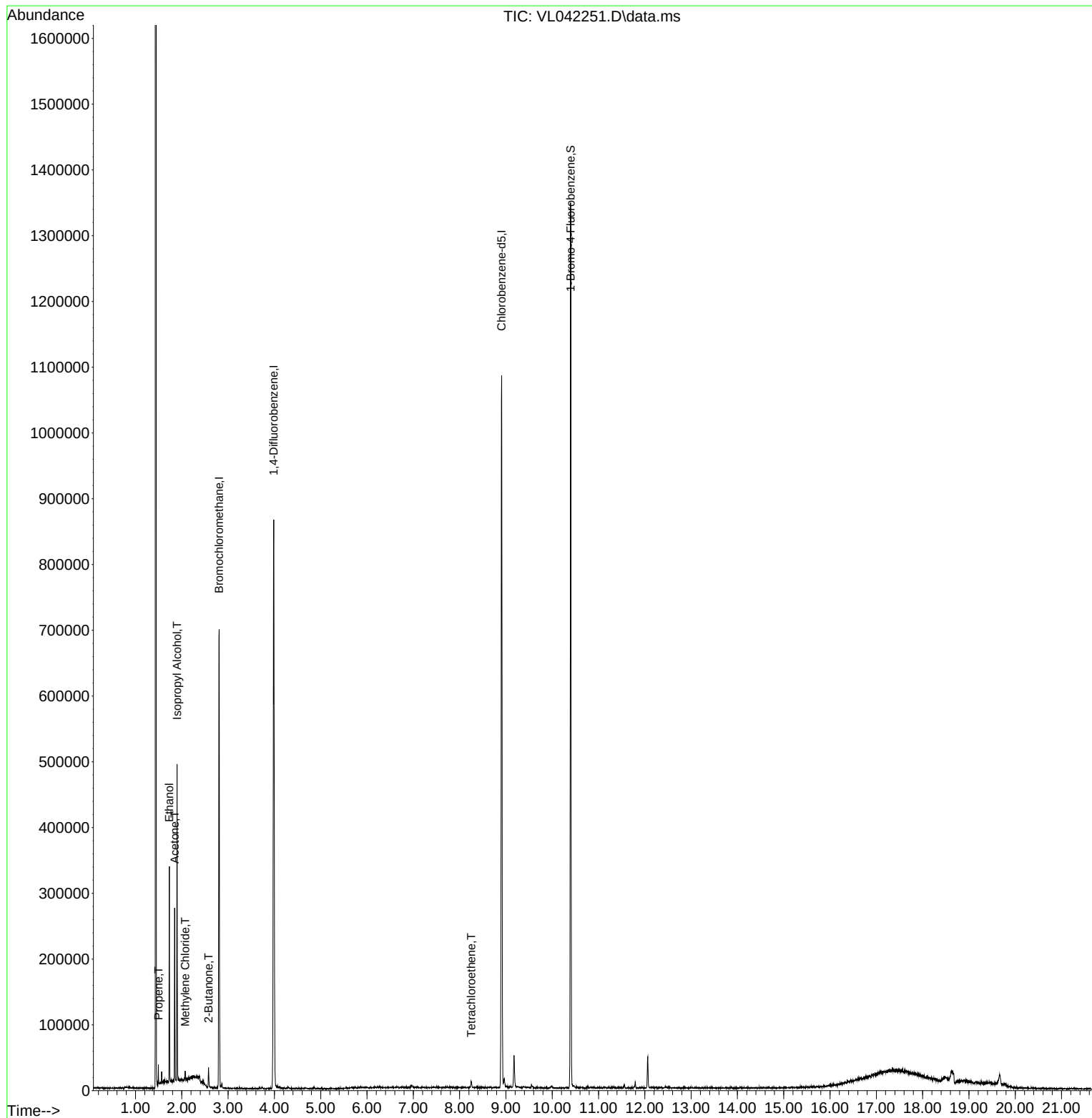
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040725\
Data File : VL042251.D
Acq On : 08 Apr 2025 01:48
Operator : SY/MD
Sample : Q1725-08DL 40X
Misc : 400mL/MSVOA_L
ALS Vial : 12 Sample Multiplier: 1

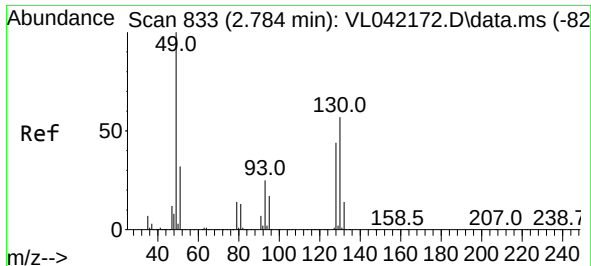
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B10-2-03312025DL

Quant Time: Apr 08 04:49:19 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Fri Mar 28 02:00:52 2025
Response via : Initial Calibration

Manual Integrations
APPROVED

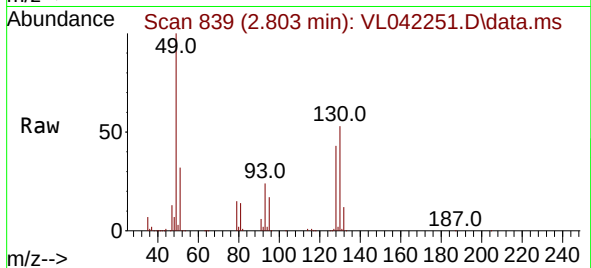
Reviewed By : Semsettin Yesilyurt 04/08/2025
Supervised By : Mahesh Dadoda 04/09/2025





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.803 min Scan# 81
Delta R.T. 0.019 min
Lab File: VL042251.D
Acq: 08 Apr 2025 01:48

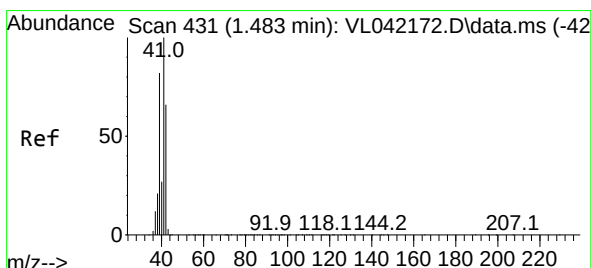
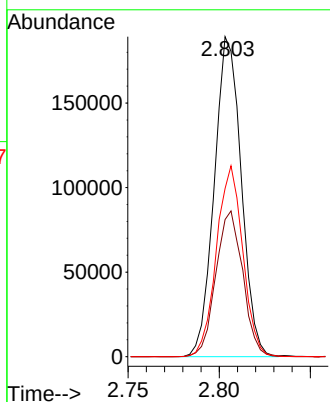
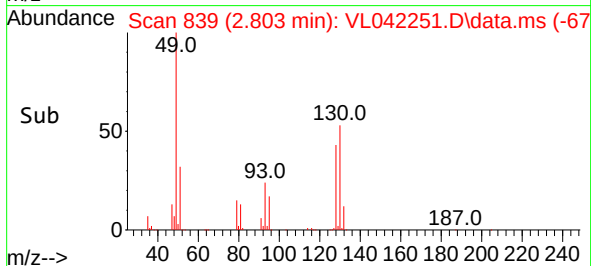
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B10-2-03312025DL



Tgt Ion: 49 Resp: 194708
Ion Ratio Lower Upper
49 100
128 45.4 22.9 68.5
130 58.3 28.8 86.4

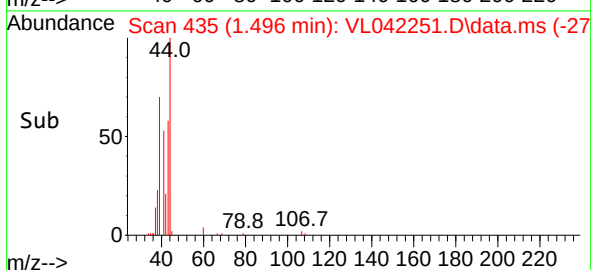
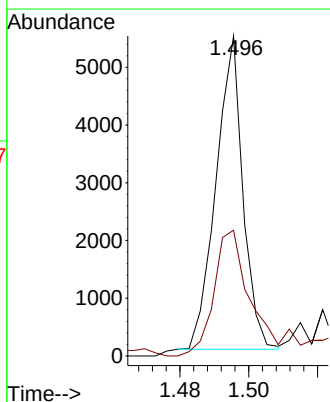
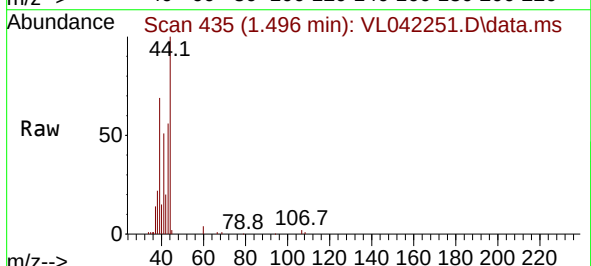
Manual Integrations
APPROVED

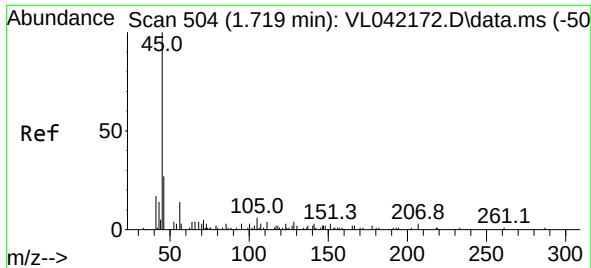
Reviewed By :Semsettin Yesilyurt 04/08/2025
Supervised By :Mahesh Dadoda 04/09/2025



#9
Propene
Concen: 0.219 ppbv
RT: 1.496 min Scan# 435
Delta R.T. 0.013 min
Lab File: VL042251.D
Acq: 08 Apr 2025 01:48

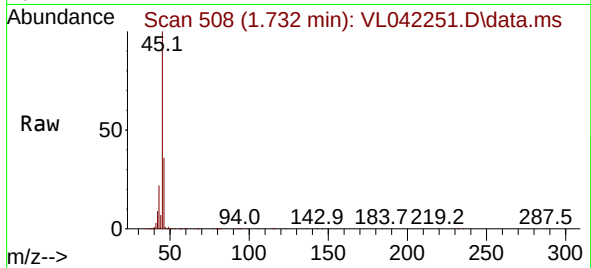
Tgt Ion: 41 Resp: 2943
Ion Ratio Lower Upper
41 100
42 69.3 55.4 83.2





#13
Ethanol
Concen: 93.585 ppbv
RT: 1.732 min Scan# 508
Delta R.T. 0.013 min
Lab File: VL042251.D
Acq: 08 Apr 2025 01:48

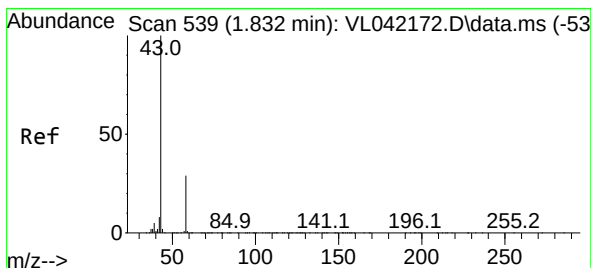
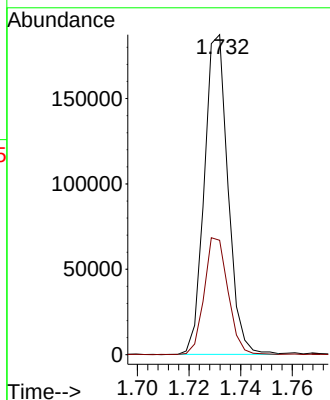
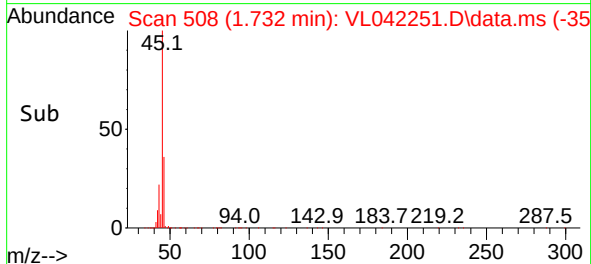
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B10-2-03312025DL



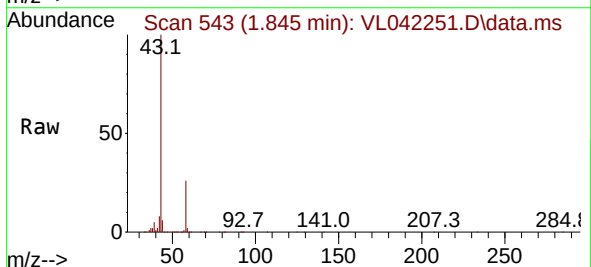
Tgt Ion: 45 Resp: 119090
Ion Ratio Lower Upper
45 100
46 37.3 20.2 80.8

Manual Integrations
APPROVED

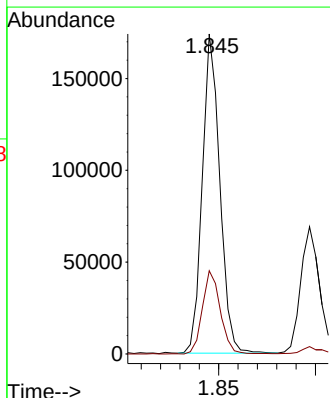
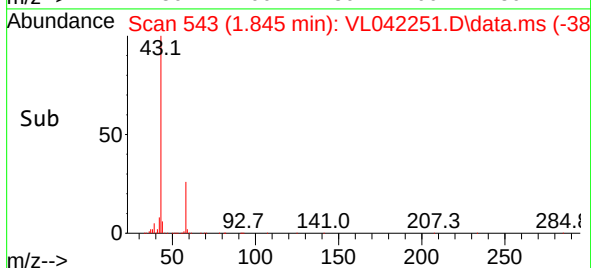
Reviewed By :Semsettin Yesilyurt 04/08/2025
Supervised By :Mahesh Dadoda 04/09/2025

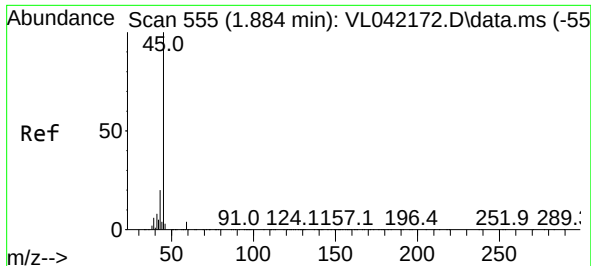


#15
Acetone
Concen: 4.020 ppbv
RT: 1.845 min Scan# 543
Delta R.T. 0.013 min
Lab File: VL042251.D
Acq: 08 Apr 2025 01:48



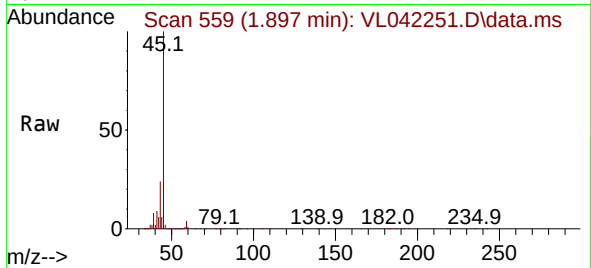
Tgt Ion: 43 Resp: 109482
Ion Ratio Lower Upper
43 100
58 26.8 23.2 34.8





#19
Isopropyl Alcohol
Concen: 12.798 ppbv
RT: 1.897 min Scan# 511
Delta R.T. 0.013 min
Lab File: VL042251.D
Acq: 08 Apr 2025 01:48

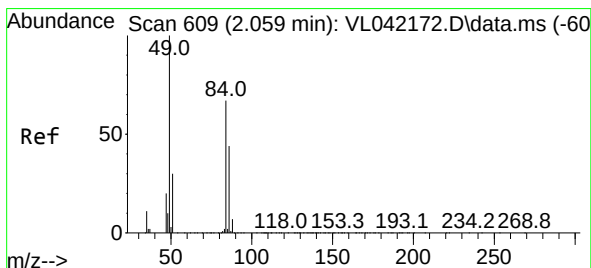
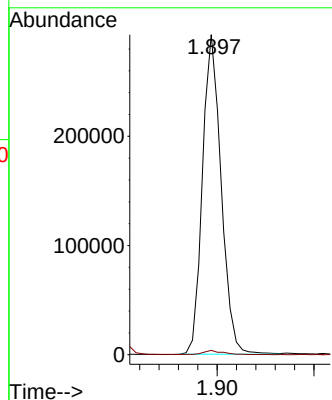
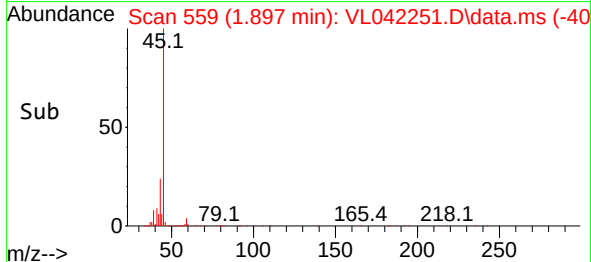
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B10-2-03312025DL



Tgt Ion: 45 Resp: 196639
Ion Ratio Lower Upper
45 100
58 1.5 36.9 55.3

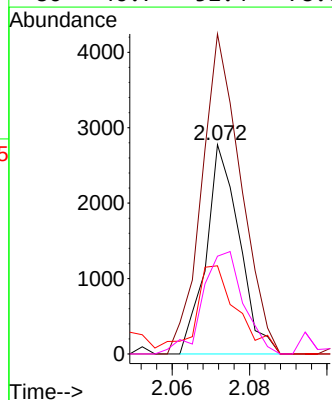
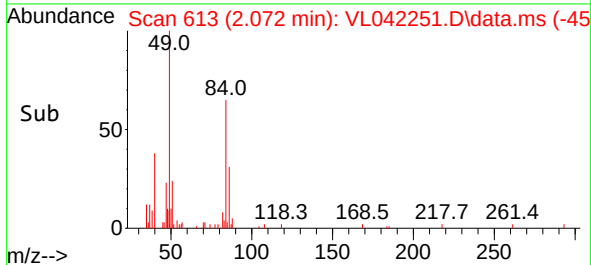
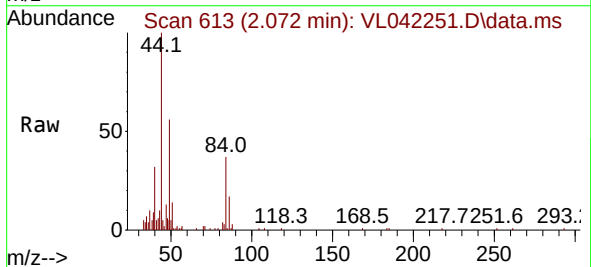
Manual Integrations
APPROVED

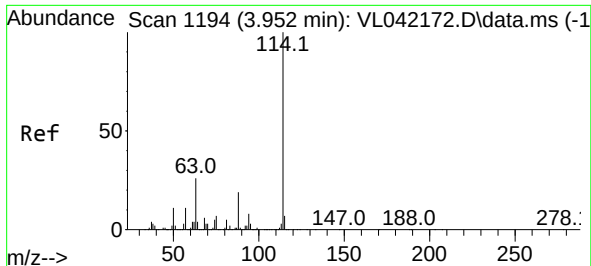
Reviewed By :Semsettin Yesilyurt 04/08/2025
Supervised By :Mahesh Dadoda 04/09/2025



#20
Methylene Chloride
Concen: 0.163 ppbv
RT: 2.072 min Scan# 613
Delta R.T. 0.013 min
Lab File: VL042251.D
Acq: 08 Apr 2025 01:48

Tgt Ion: 84 Resp: 1654
Ion Ratio Lower Upper
84 100
49 152.9 120.2 180.4
51 42.1 37.4 56.0
86 46.7 52.4 78.6





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.985 min Scan# 1194

Delta R.T. 0.032 min

Lab File: VL042251.D

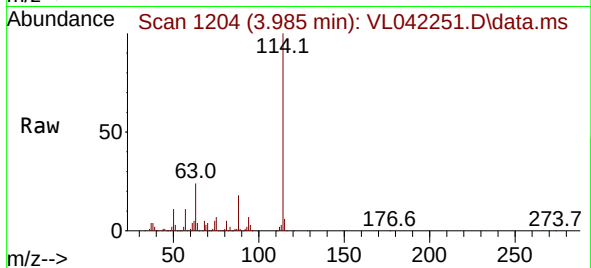
Acq: 08 Apr 2025 01:48

Instrument :

MSVOA_L

ClientSampleId :

SSSG-B10-2-03312025DL



Tgt Ion:114 Resp: 494678

Ion Ratio Lower Upper

114 100

63 25.5 20.7 31.1

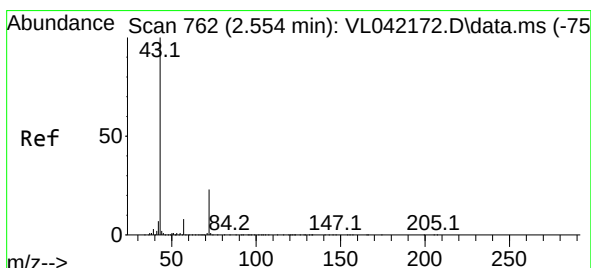
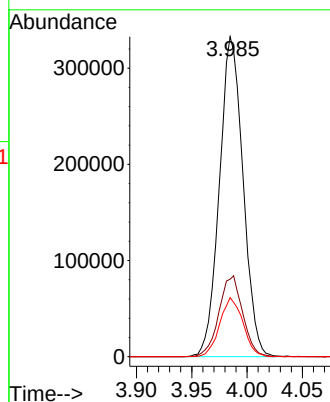
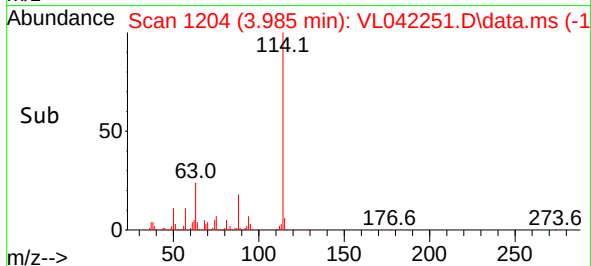
88 18.1 15.0 22.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/08/2025

Supervised By :Mahesh Dadoda 04/09/2025



#34

2-Butanone

Concen: 0.524 ppbv

RT: 2.577 min Scan# 769

Delta R.T. 0.022 min

Lab File: VL042251.D

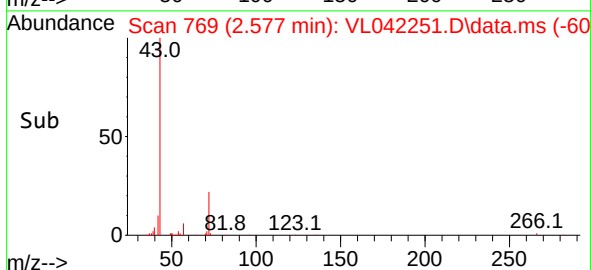
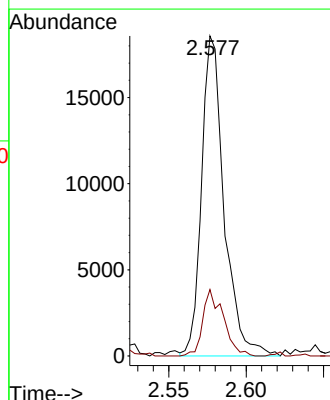
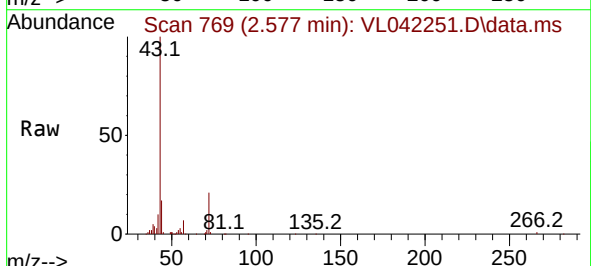
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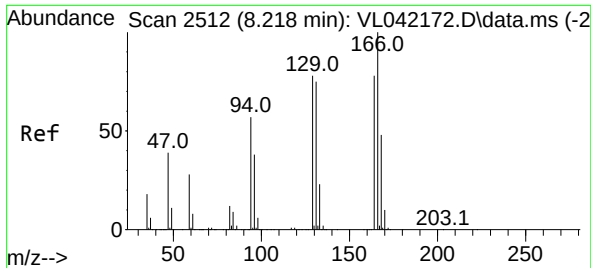
Tgt Ion: 43 Resp: 18789

Ion Ratio Lower Upper

43 100

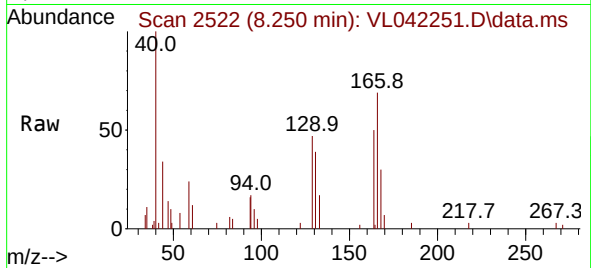
72 19.6 18.2 27.2





#52
Tetrachloroethene
Concen: 0.076 ppbv m
RT: 8.250 min Scan# 2175
Delta R.T. 0.032 min
Lab File: VL042251.D
Acq: 08 Apr 2025 01:48

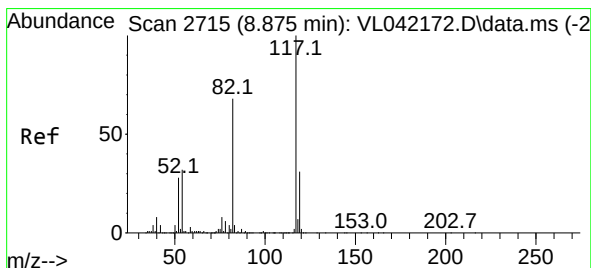
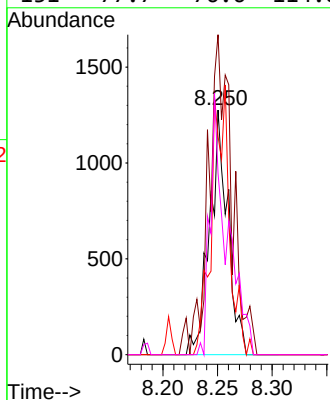
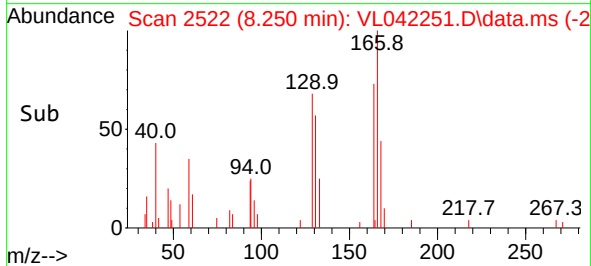
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B10-2-03312025DL



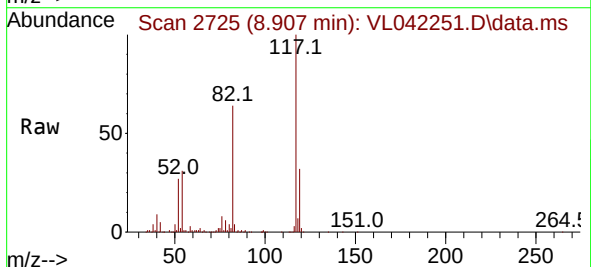
Tgt Ion:164 Resp: 148
Ion Ratio Lower Upper
164 100
166 137.1 102.5 153.7
129 93.5 79.8 119.8
131 77.7 76.6 114.8

Manual Integrations
APPROVED

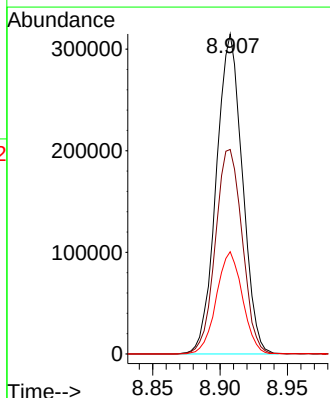
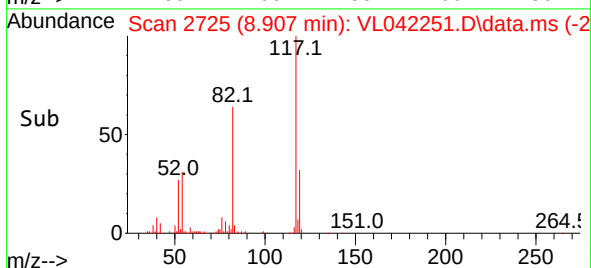
Reviewed By :Semsettin Yesilyurt 04/08/2025
Supervised By :Mahesh Dadoda 04/09/2025

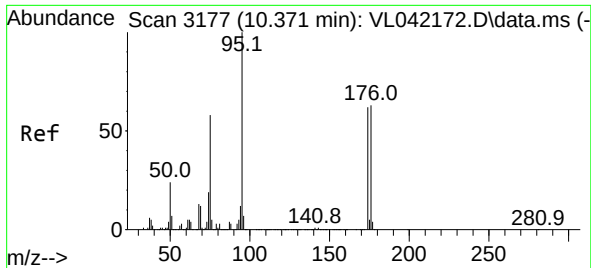


#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.907 min Scan# 2725
Delta R.T. 0.032 min
Lab File: VL042251.D
Acq: 08 Apr 2025 01:48



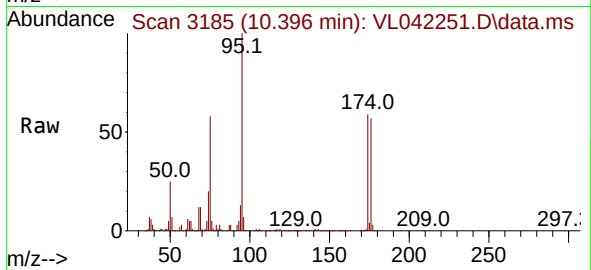
Tgt Ion:117 Resp: 424907
Ion Ratio Lower Upper
117 100
82 65.9 55.8 83.6
119 32.0 25.5 38.3





#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.310 ppbv
 RT: 10.396 min Scan# 3177
 Delta R.T. 0.026 min
 Lab File: VL042251.D
 Acq: 08 Apr 2025 01:48

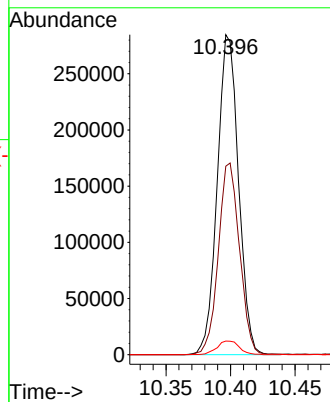
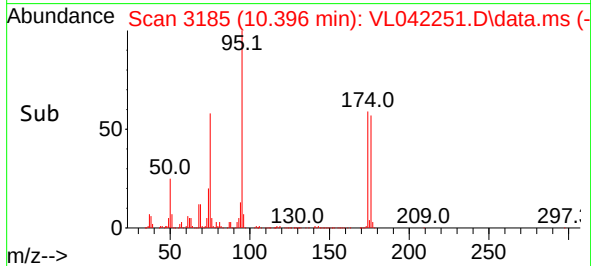
Instrument :
 MSVOA_L
 ClientSampleId :
 SSSG-B10-2-03312025DL



Tgt Ion: 95 Resp: 324870
 Ion Ratio Lower Upper
 95 100
 174 60.1 50.6 76.0
 175 4.5 3.8 5.6

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 04/08/2025
 Supervised By :Mahesh Dadoda 04/09/2025





CALIBRATION SUMMARY

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

Method File : VL032725AIR.M

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

Last Update : Fri Mar 28 02:00:52 2025

Response Via : Initial Calibration

Calibration Files

0.03=VL042177.D 0.1 =VL042176.D 0.5 =VL042175.D 1 =VL042174.D 2 =VL042173.D 10 =VL042172.D 15 =VL042178.D

Compound	0.03	0.1	0.5	1	2	10	15	Avg	%RSD

1) I Bromochloromethane	-----ISTD-----								
2) T Dichlorodifluo...			1.602	1.514	1.482	1.404	1.380	1.476	6.03
3) Chlorodifluoro...			1.622	1.541	1.514	1.457	1.408	1.508	5.41
4) Chloromethane			0.660	0.597	0.618	0.573	0.570	0.603	6.17
5) T Vinyl Chloride	0.882	0.705	0.635	0.576	0.584	0.549	0.546	0.639	18.84
6) T Bromomethane			0.327	0.268	0.266	0.256	0.250	0.273	11.20
7) Chloroethane			0.286	0.248	0.223	0.227	0.226	0.242	10.92
8) T Dichlorotetra...			1.306	1.283	1.274	1.214	1.211	1.257	3.40
9) T Propene			0.734	0.736	0.698	0.660	0.630	0.691	6.69
10) T Heptane			1.847	1.940	1.897	1.792	1.719	1.839	4.73
11) T Trichlorofluor...			1.562	1.457	1.480	1.339	1.346	1.437	6.59
12) T 1,1,2-Trichlor...			1.247	1.215	1.188	1.120	1.135	1.181	4.52
13) Ethanol			0.110	0.086	0.073	0.029	0.028	0.065	55.48
14) T Bromoethene			0.529	0.447	0.460	0.417	0.409	0.452	10.47
15) T Acetone			1.699	1.573	1.469	1.113	1.139	1.399	18.73
16) T 1,3-Butadiene			0.952	0.705	0.608	0.573	0.577	0.683	23.38
17) tert-Butyl alc...			1.935	1.799	1.756	1.618	1.601	1.742	7.91
18) T 1,1-Dichloroet...			0.624	0.565	0.560	0.504	0.507	0.552	8.99
19) T Isopropyl Alcohol			1.016	0.800	0.738	0.702	0.689	0.789	16.99
20) T Methylene Chlo...			0.624	0.563	0.545	0.438	0.435	0.521	15.85
21) T Allyl Chloride			1.067	1.022	1.020	0.902	0.921	0.986	7.25
22) T trans-1,2-Dich...			0.704	0.701	0.621	0.590	0.575	0.638	9.56
23) T Vinyl Acetate			0.754	0.692	0.550	0.498	0.532	0.605	18.40
24) T 1,1-Dichloroet...			1.247	1.208	1.187	1.122	1.149	1.183	4.17
25) T Ethyl Acetate			4.017	3.619	3.703	3.457	3.353	3.630	7.06
26) T Hexane			1.507	1.462	1.383	1.333	1.325	1.402	5.71
27) T Carbon Disulfide			1.608	1.512	1.538	1.436	1.423	1.503	5.07
28) T Methyl tert-Bu...			0.921	0.886	0.894	0.831	0.832	0.873	4.56
29) T Chloroform			2.233	2.068	2.071	1.932	1.956	2.052	5.81
30) T Cyclohexane			1.337	1.238	1.211	1.162	1.140	1.217	6.33
31) T cis-1,2-Dichlo...			1.507	1.460	1.426	1.371	1.353	1.423	4.44
32) T 1,1,1-Trichlor...	3.151	2.495	2.279	2.201	2.152	2.062	2.105	2.349	16.23

33) I 1,4-Difluorobenzene	-----ISTD-----								
34) T 2-Butanone			0.754	0.771	0.770	0.667	0.664	0.725	7.58
35) T Carbon Tetrach...	1.069	0.782	0.709	0.732	0.748	0.703	0.725	0.781	16.60
36) T Benzene			1.049	1.027	1.013	0.934	0.934	0.991	5.47
37) T 1,2-Dichloroet...			0.613	0.569	0.563	0.537	0.556	0.568	4.95
38) T Trichloroethene	0.463	0.437	0.438	0.408	0.398	0.374	0.378	0.414	8.00
39) T 1,2-Dichloropr...			0.386	0.373	0.365	0.337	0.344	0.361	5.68

Method Path : Z:\voasrv\HPCHEM1\MSVOA_L\methods\											
Method File : VL032725AIR.M											
40)	T	1,4-Dioxane			0.234	0.197	0.191	0.169	0.167	0.192	14.08
41)	T	Tetrahydrofuran			0.439	0.425	0.432	0.398	0.393	0.418	4.98
42)	T	Bromodichlorom...			0.778	0.779	0.802	0.769	0.785	0.782	1.58
43)		Methyl Methacr...			0.442	0.451	0.408	0.403	0.394	0.420	6.03
44)	T	2,2,4-Trimethy...			1.781	1.689	1.723	1.608	1.576	1.675	5.00
45)	T	t-1,3-Dichloro...			0.474	0.447	0.453	0.439	0.440	0.450	3.15
46)	T	cis-1,3-Dichlo...			0.549	0.560	0.566	0.550	0.535	0.552	2.12
47)	T	1,1,2-Trichlor...			0.419	0.382	0.379	0.364	0.365	0.382	5.88
48)	T	Dibromochlorom...			0.651	0.641	0.663	0.636	0.644	0.647	1.62
49)	T	Bromoform			0.566	0.588	0.597	0.582	0.570	0.581	2.18
50)	T	4-Methyl-2-Pen...			1.286	1.214	1.211	1.027	1.008	1.149	10.79
51)	T	2-Hexanone			0.999	1.018	1.031	0.844	0.827	0.944	10.56
52)	T	Tetrachloroethene	0.572	0.359	0.401	0.361	0.371	0.343	0.345	0.393	20.64
53)	T	Toluene			1.239	1.203	1.202	1.125	1.108	1.175	4.76
54)	T	1,2-Dibromoethane	0.574		0.543	0.538	0.520	0.508	0.510	0.532	4.74
-----ISTD-----											
55)	I	Chlorobenzene-d5									
56)		1,1,1,2-Tetrac...			0.576	0.575	0.576	0.510	0.515	0.550	6.30
57)	T	Chlorobenzene			1.024	0.979	0.994	0.875	0.871	0.949	7.46
58)	T	Ethyl Benzene			1.850	1.822	1.894	1.671	1.645	1.776	6.28
59)	T	m/p-Xylene			1.505	1.472	1.484	1.321	1.309	1.418	6.71
60)	T	o-Xylene			1.521	1.475	1.499	1.328	1.287	1.422	7.50
61)	T	Styrene			0.709	0.722	0.735	0.683	0.668	0.703	3.92
62)		Isopropylbenzene			2.290	2.199	2.261	1.962	1.920	2.126	8.14
63)	T	1,1,2,2-Tetrac...	0.986	0.800	0.907	0.889	0.893	0.796	0.777	0.864	8.78
64)		n-propylbenzene			0.578	0.581	0.576	0.499	0.502	0.547	7.81
65)		tert-Butylbenzene			2.190	2.071	2.144	1.736	1.691	1.966	11.96
66)	T	Benzyl Chloride			0.217	0.213	0.221	0.203	0.189	0.209	6.06
67)		sec-Butylbenzene			3.005	2.994	2.947	2.404	2.316	2.733	12.54
68)	S	1-Bromo-4-Fluo...	0.820	0.827	0.832	0.810	0.828	0.813	0.820	0.821	0.98
69)		p-Isopropyltol...			2.554	2.551	2.560	2.078	2.025	2.354	11.74
70)		n-Butylbenzene			2.536	2.598	2.682	2.137	2.082	2.407	11.51
71)		2-Chlorotoluene			1.717	1.728	1.759	1.538	1.510	1.650	7.07
72)	T	4-Ethyltoluene			1.834	1.859	1.929	1.629	1.601	1.770	8.26
73)	T	1,3,5-Trimethy...			1.616	1.671	1.677	1.387	1.381	1.546	9.71
74)	T	1,2,4-Trimethy...			1.994	1.958	1.966	1.510	1.478	1.781	14.74
75)	T	1,3-Dichlorobe...			1.036	1.022	1.063	0.882	0.882	0.977	8.99
76)	T	1,4-Dichlorobe...			1.030	1.017	1.040	0.888	0.886	0.972	8.05
77)	T	1,2-Dichlorobe...			1.012	1.031	1.014	0.850	0.850	0.951	9.78
78)	T	Hexachloro-1,3...			1.057	1.113	1.086	0.802	0.784	0.968	16.65
79)	T	Naphthalene	1.637		1.979	2.181	2.314	1.806	1.773	1.948	13.31
80)	T	Naphthalene,2-...			0.721	0.891	1.163	0.990	1.013	0.955	17.09
81)	T	1,2,4-Trichlor...			0.821	0.941	1.028	0.859	0.843	0.899	9.51

(#) = Out of Range

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
 Data File : VL042172.D
 Acq On : 27 Mar 2025 08:26
 Operator : SY/MD
 Sample : VSTDICCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Manual Integrations
 APPROVED

Quant Time: Mar 28 01:31:57 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M

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

QLast Update : Fri Mar 28 01:31:23 2025

Response via : Initial Calibration

Reviewed By : Semsettin Yesilyurt 03/31/2025
 Supervised By : Mahesh Dadoda 04/03/2025

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

Internal Standards						
1) Bromochloromethane	2.784	49	187002	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.952	114	545068	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.875	117	519536	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	10.371	95	422410	9.901	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.000%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.496	85	262496	9.507	ppbv	100
3) Chlorodifluoromethane	1.473	51	272522	9.662	ppbv	100
4) Chloromethane	1.531	50	107099	9.491	ppbv	100
5) Vinyl Chloride	1.577	62	102699	8.925	ppbv	100
6) Bromomethane	1.664	94	47950	9.377	ppbv	100
7) Chloroethane	1.703	64	42516	9.387	ppbv	100
8) Dichlorotetrafluoroethane	1.551	85	227041	9.656	ppbv	100
9) Propene	1.483	41	123386	9.709	ppbv	100
10) Heptane	4.972	43	335086	9.744	ppbv	100
11) Trichlorofluoromethane	1.874	101	250349	9.318	ppbv	100
12) 1,1,2-Trichlorotrifluo...	2.137	101	209365	9.481	ppbv	100
13) Ethanol	1.719	45	5338	5.364	ppbv	100
14) Bromoethene	1.777	108	77999	9.220	ppbv	100
15) Acetone	1.832	43	208061	7.955	ppbv	100
16) 1,3-Butadiene	1.606	39	107104	9.105	ppbv	100
17) tert-Butyl alcohol	2.036	59	302616	9.290	ppbv	100
18) 1,1-Dichloroethene	2.030	96	94236	9.128	ppbv	100
19) Isopropyl Alcohol	1.884	45	131359	8.902	ppbv	100
20) Methylene Chloride	2.059	84	81828	8.401	ppbv	100
21) Allyl Chloride	2.091	41	168602	9.141	ppbv	100
22) trans-1,2-Dichloroethene	2.337	96	110371	9.149	ppbv	100
23) Vinyl Acetate	2.460	43	93080	8.563	ppbv	100
24) 1,1-Dichloroethane	2.405	63	209753	9.484	ppbv	100
25) Ethyl Acetate	2.833	43	646501	9.524	ppbv	100
26) Hexane	2.823	57	249331	9.510	ppbv	100
27) Carbon Disulfide	2.146	76	268507	9.550	ppbv	100
28) Methyl tert-Butyl Ether	2.438	73	155398	9.520	ppbv	100
29) Chloroform	2.845	83	361264	9.415	ppbv	100
30) Cyclohexane	3.852	84	217215	9.537	ppbv	100
31) cis-1,2-Dichloroethene	2.716	61	256425	9.634	ppbv	100
32) 1,1,1-Trichloroethane	3.363	97	385628	8.784	ppbv	100
34) 2-Butanone	2.554	43	363735	9.203	ppbv	100
35) Carbon Tetrachloride	3.758	117	382925	9.129	ppbv	100
36) Benzene	3.651	78	508860	9.417	ppbv	100
37) 1,2-Dichloroethane	3.214	62	292937	9.469	ppbv	100
38) Trichloroethene	4.545	130	204027	9.045	ppbv	100
39) 1,2-Dichloropropane	4.312	63	183439	9.321	ppbv	100
40) 1,4-Dioxane	4.577	88	92327	9.042	ppbv #	100
41) Tetrahydrofuran	3.049	42	216851	9.643	ppbv	100
42) Bromodichloromethane	4.483	83	418887	9.822	ppbv	100
43) Methyl Methacrylate	4.872	69	219399	9.618	ppbv	100
44) 2,2,4-Trimethylpentane	4.635	57	876649	9.600	ppbv	100
45) t-1,3-Dichloropropene	6.406	75	239180	9.746	ppbv	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
 Data File : VL042172.D
 Acq On : 27 Mar 2025 08:26
 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 03/31/2025
 Supervised By :Mahesh Dadoda 04/03/2025

Quant Time: Mar 28 01:31:57 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2
 QLast Update : Fri Mar 28 01:31:23 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.593	75	300021	9.973	ppbv	100
47) 1,1,2-Trichloroethane	6.574	97	198176	9.526	ppbv	100
48) Dibromochloromethane	7.380	129	346499	9.828	ppbv	100
49) Bromoform	9.477	173	317189	10.021	ppbv	100
50) 4-Methyl-2-Pentanone	5.745	43	559800	8.934	ppbv	100
51) 2-Hexanone	7.432	43	460013	8.848	ppbv #	100
52) Tetrachloroethene	8.218	164	186912	8.722	ppbv	100
53) Toluene	6.927	91	613378	9.576	ppbv	100
54) 1,2-Dibromoethane	7.649	107	276797	9.536	ppbv	100
56) 1,1,1,2-Tetrachloroethane	8.917	131	265037	9.268	ppbv	100
57) Chlorobenzene	8.917	112	454511	9.223	ppbv	100
58) Ethyl Benzene	9.351	91	868003	9.406	ppbv	100
59) m/p-Xylene	9.549	91	1372806m	18.607	ppbv	
60) o-Xylene	9.960	91	689933	9.340	ppbv	100
61) Styrene	9.866	104	354697	9.706	ppbv	100
62) Isopropylbenzene	10.536	105	1019255	9.227	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.960	83	413392	9.210	ppbv	100
64) n-propylbenzene	10.986	120	259405	9.122	ppbv	100
65) tert-Butylbenzene	11.529	119	901951	8.828	ppbv	100
66) Benzyl Chloride	11.610	91	105411	9.724	ppbv	100
67) sec-Butylbenzene	11.766	105	1249106	8.796	ppbv	100
69) p-Isopropyltoluene	11.924	119	1079675	8.830	ppbv	100
70) n-Butylbenzene	12.277	91	1110351	8.879	ppbv	100
71) 2-Chlorotoluene	10.898	91	799102	9.320	ppbv	100
72) 4-Ethyltoluene	11.122	105	846232	9.200	ppbv	100
73) 1,3,5-Trimethylbenzene	11.199	105	720566	8.970	ppbv	100
74) 1,2,4-Trimethylbenzene	11.536	105	784745	8.480	ppbv	100
75) 1,3-Dichlorobenzene	11.604	146	458226	9.028	ppbv	100
76) 1,4-Dichlorobenzene	11.669	146	461371	9.134	ppbv	100
77) 1,2-Dichlorobenzene	11.944	146	441473	8.933	ppbv	100
78) Hexachloro-1,3-Butadiene	13.879	225	416735	8.284	ppbv	100
79) Naphthalene	13.510	128	938470	9.271	ppbv	100
80) Naphthalene,2-methyl-	14.455	142	514394	10.436	ppbv	100
81) 1,2,4-Trichlorobenzene	13.439	180	446420	9.561	ppbv	100

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

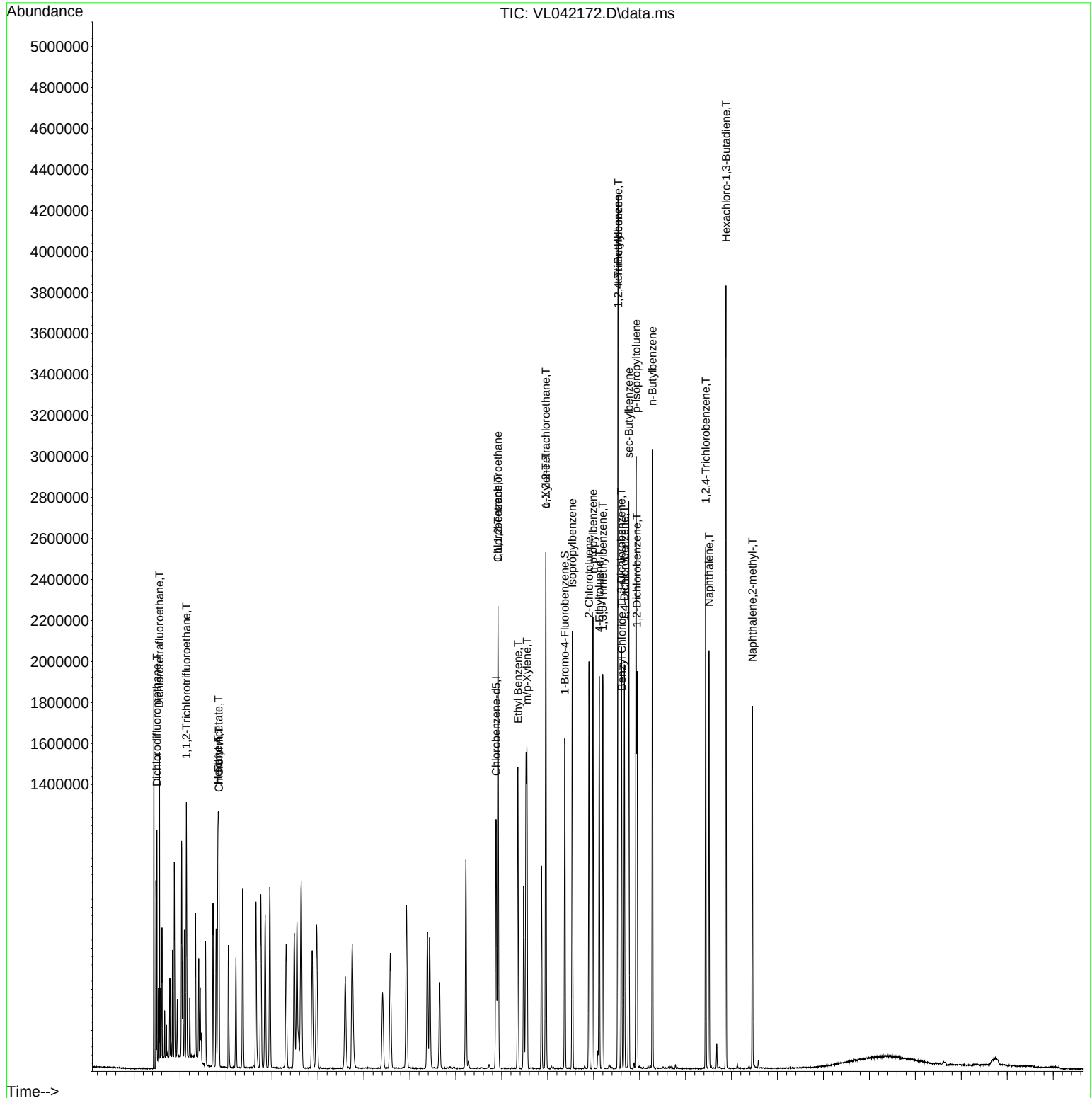
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
Data File : VL042172.D
Acq On : 27 Mar 2025 08:26
Operator : SY/MD
Sample : VSTDICCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

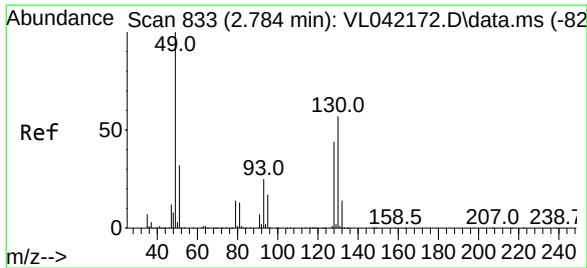
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Quant Time: Mar 28 01:31:57 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Fri Mar 28 01:31:23 2025
Response via : Initial Calibration

Manual Integrations
APPROVED

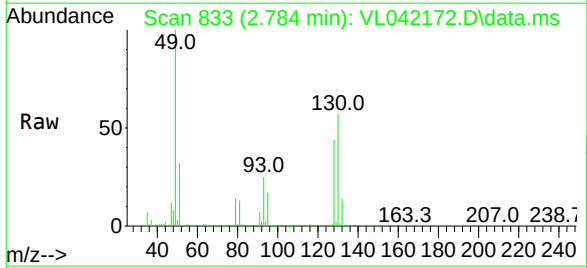
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 833
Delta R.T. -0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

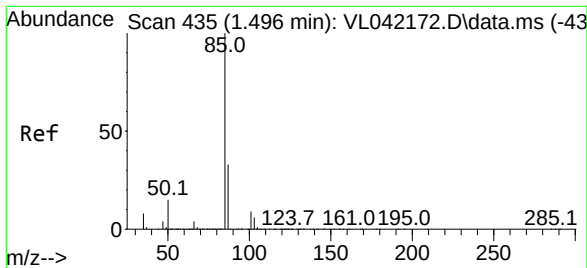
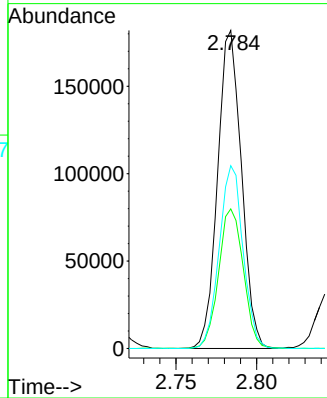
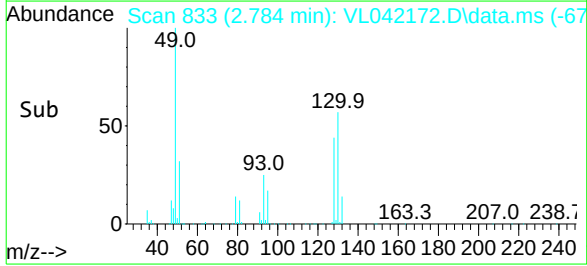
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



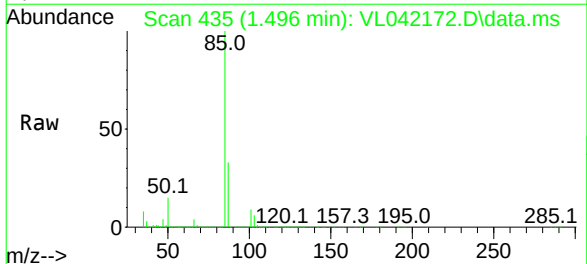
Tgt Ion: 49 Resp: 187002
Ion Ratio Lower Upper
49 100
128 45.7 22.9 68.5
130 57.6 28.8 86.4

Manual Integrations
APPROVED

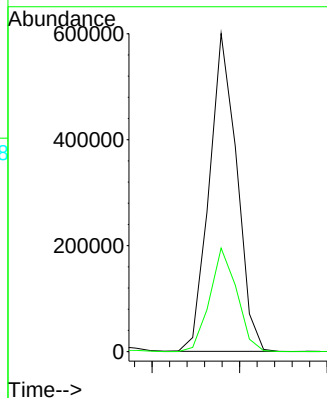
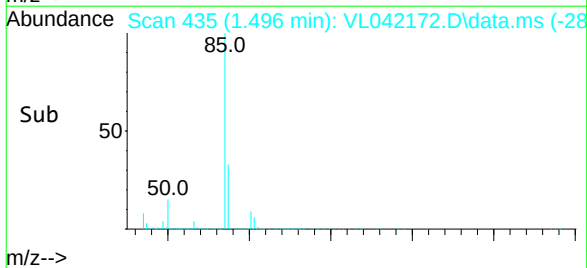
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025

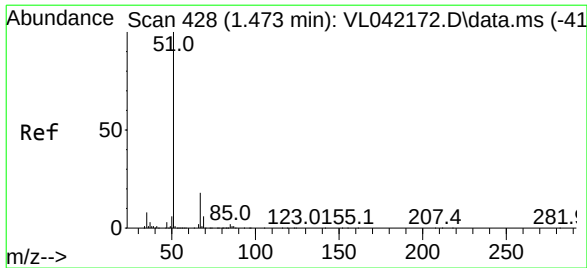


#2
Dichlorodifluoromethane
Concen: 9.507 ppbv
RT: 1.496 min Scan# 435
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26



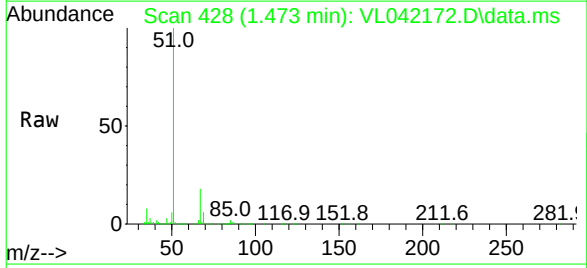
Tgt Ion: 85 Resp: 262496
Ion Ratio Lower Upper
85 100
87 32.6 26.1 39.1





#3
Chlorodifluoromethane
Concen: 9.662 ppbv
RT: 1.473 min Scan# 428
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

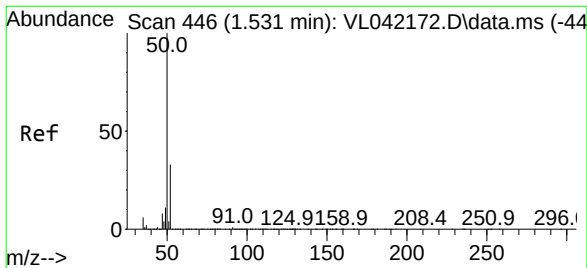
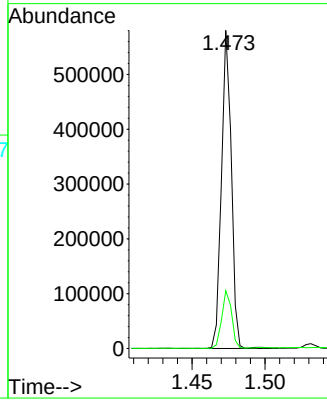
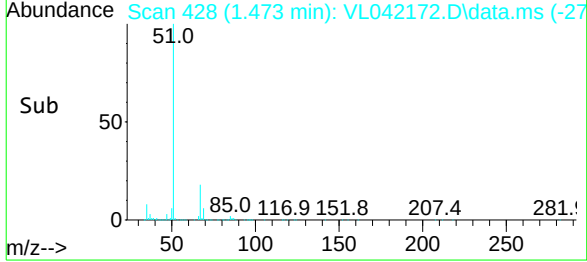
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



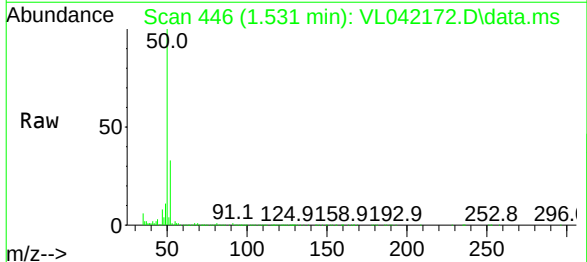
Tgt Ion: 51 Resp: 272522
Ion Ratio Lower Upper
51 100
67 18.8 15.0 22.6

Manual Integrations
APPROVED

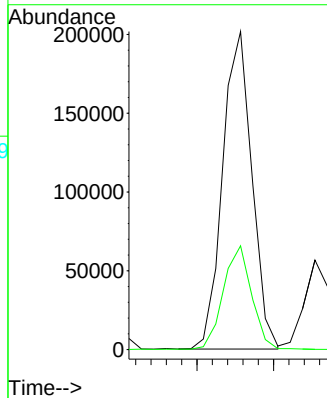
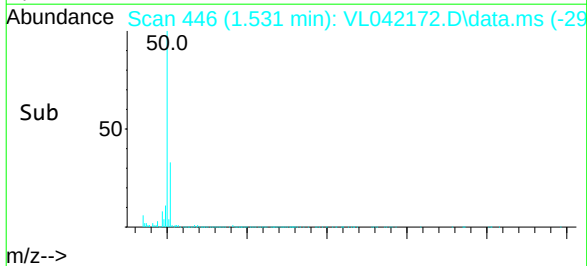
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025

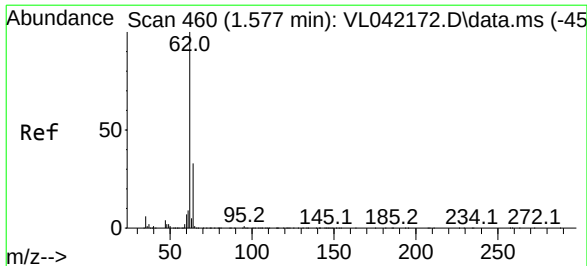


#4
Chloromethane
Concen: 9.491 ppbv
RT: 1.531 min Scan# 446
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26



Tgt Ion: 50 Resp: 107099
Ion Ratio Lower Upper
50 100
52 32.6 26.1 39.1





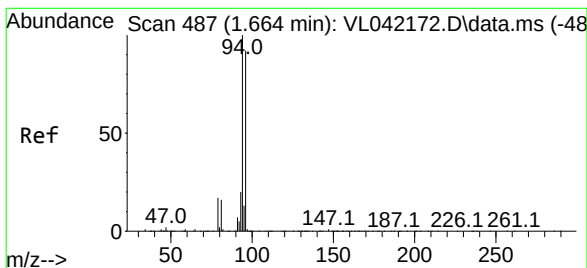
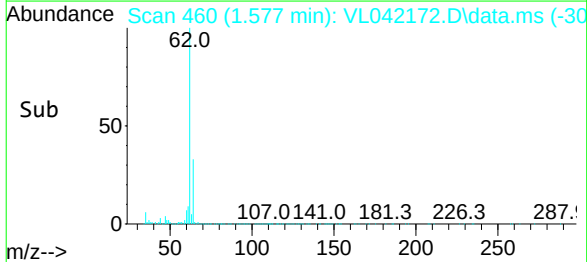
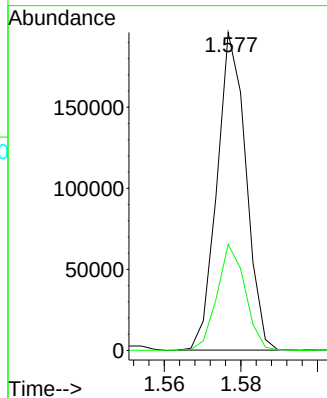
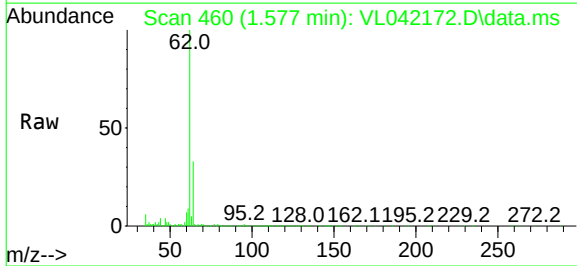
#5
 Vinyl Chloride
 Concen: 8.925 ppbv
 RT: 1.577 min Scan# 460
 Delta R.T. 0.000 min
 Lab File: VL042172.D
 Acq: 27 Mar 2025 08:26

Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDICCC010

Tgt Ion: 62 Resp: 102699
 Ion Ratio Lower Upper
 62 100
 64 33.3 26.6 40.0

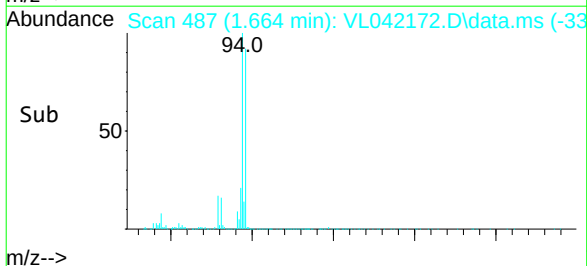
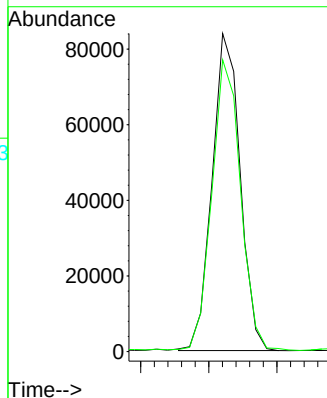
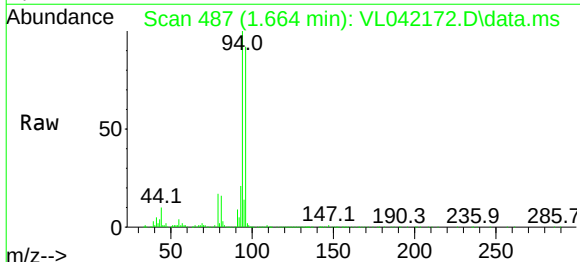
Manual Integrations
 APPROVED

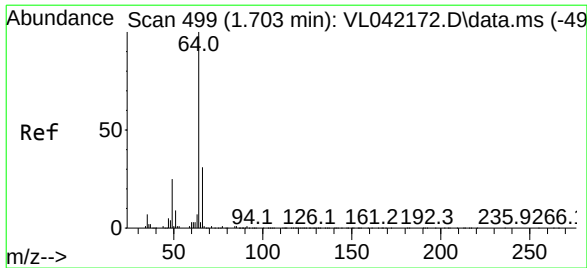
Reviewed By :Semsettin Yesilyurt 03/31/2025
 Supervised By :Mahesh Dadoda 04/03/2025



#6
 Bromomethane
 Concen: 9.377 ppbv
 RT: 1.664 min Scan# 487
 Delta R.T. 0.000 min
 Lab File: VL042172.D
 Acq: 27 Mar 2025 08:26

Tgt Ion: 94 Resp: 47950
 Ion Ratio Lower Upper
 94 100
 96 91.4 73.1 109.7





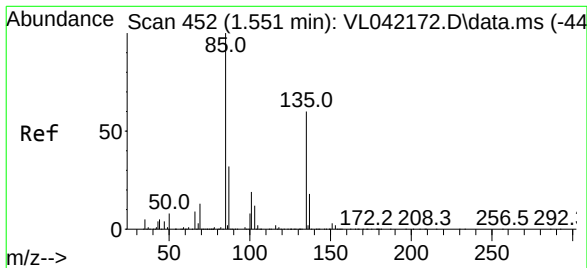
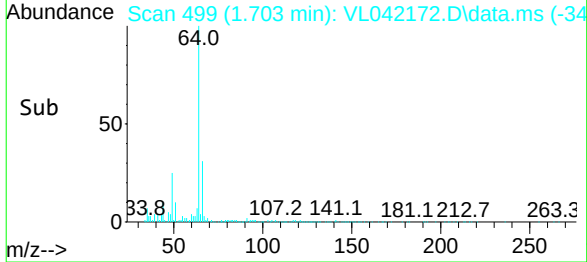
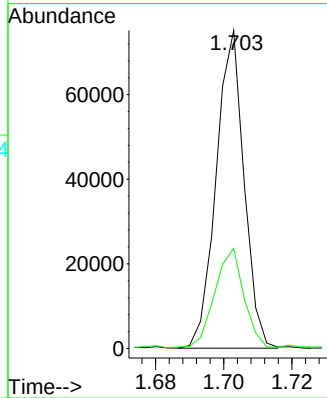
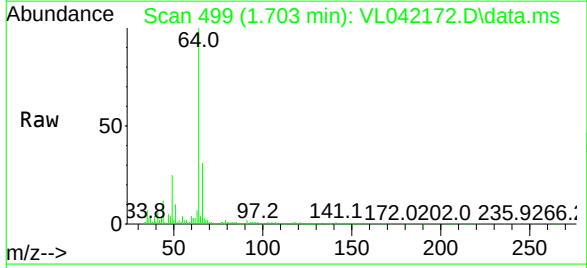
#7
Chloroethane
Concen: 9.387 ppbv
RT: 1.703 min Scan# 499
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 64 Resp: 42516
Ion Ratio Lower Upper
64 100
66 31.5 25.2 37.8

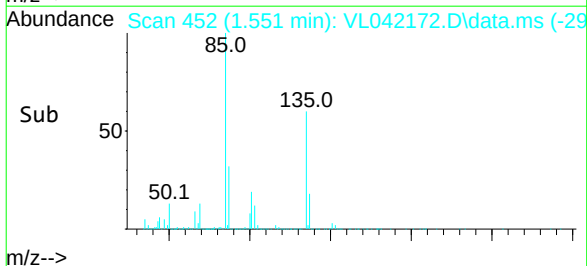
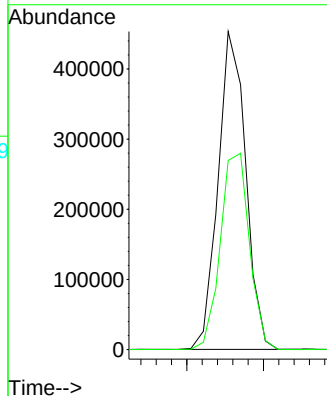
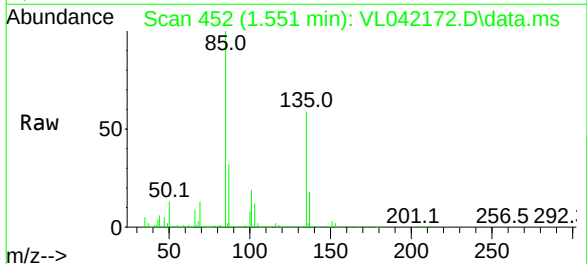
Manual Integrations
APPROVED

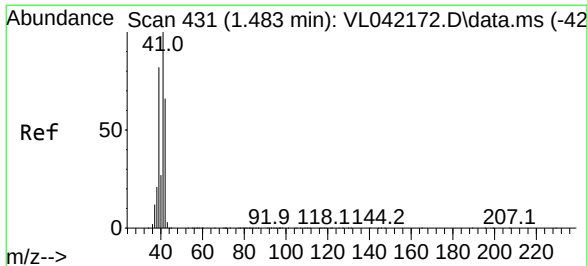
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#8
Dichlorotetrafluoroethane
Concen: 9.656 ppbv
RT: 1.551 min Scan# 452
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

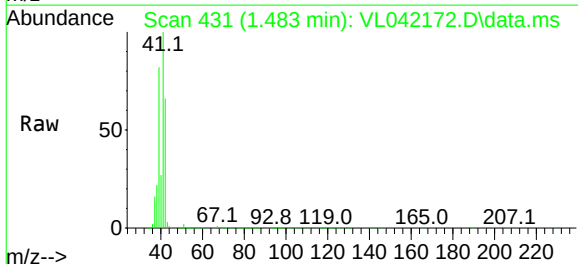
Tgt Ion: 85 Resp: 227041
Ion Ratio Lower Upper
85 100
135 65.5 52.4 78.6





#9
 Propene
 Concen: 9.709 ppbv
 RT: 1.483 min Scan# 431
 Delta R.T. 0.000 min
 Lab File: VL042172.D
 Acq: 27 Mar 2025 08:26

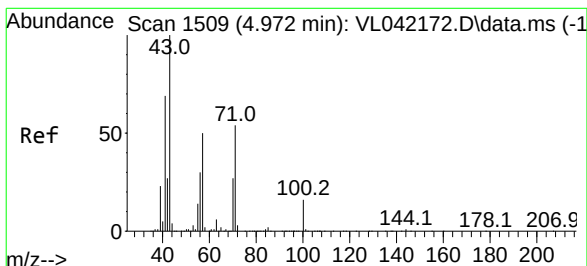
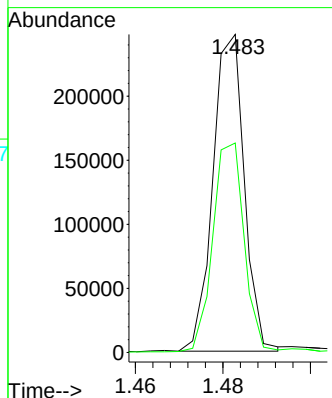
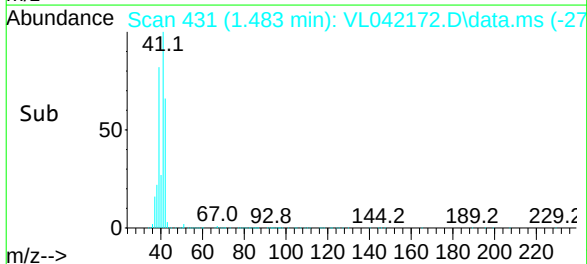
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010



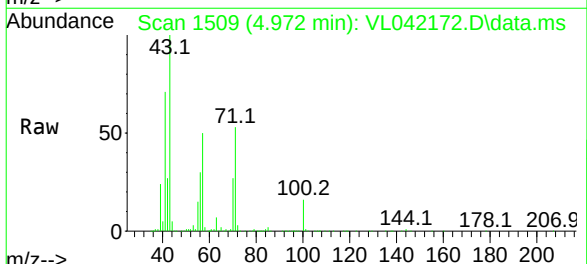
Tgt Ion: 41 Resp: 123386
 Ion Ratio Lower Upper
 41 100
 42 69.3 55.4 83.2

Manual Integrations
 APPROVED

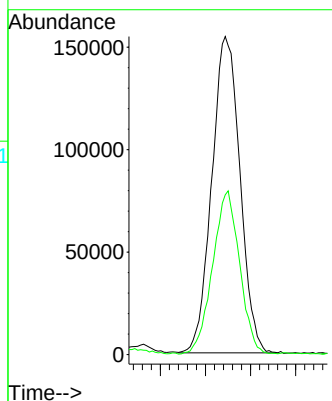
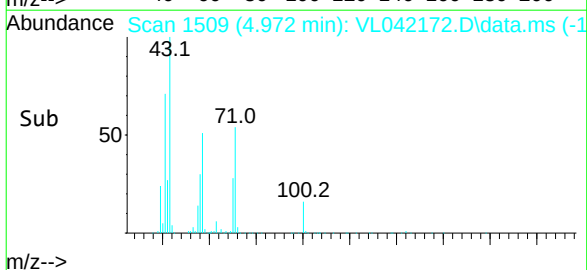
Reviewed By :Semsettin Yesilyurt 03/31/2025
 Supervised By :Mahesh Dadoda 04/03/2025

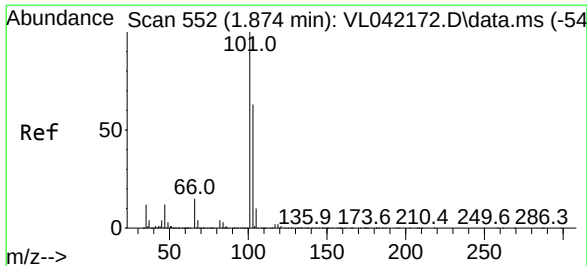


#10
 Heptane
 Concen: 9.744 ppbv
 RT: 4.972 min Scan# 1509
 Delta R.T. 0.000 min
 Lab File: VL042172.D
 Acq: 27 Mar 2025 08:26



Tgt Ion: 43 Resp: 335086
 Ion Ratio Lower Upper
 43 100
 57 49.3 39.4 59.2





#11

Trichlorofluoromethane

Concen: 9.318 ppbv

RT: 1.874 min Scan# 552

Delta R.T. 0.000 min

Lab File: VL042172.D

Acq: 27 Mar 2025 08:26

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tgt Ion:101 Resp: 250349

Ion Ratio Lower Upper

101 100

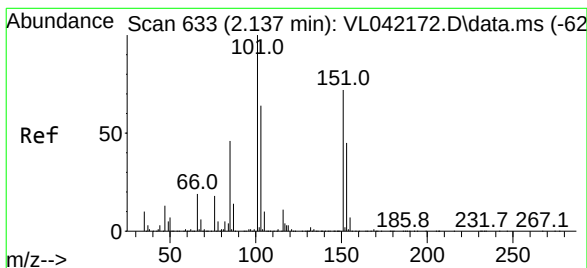
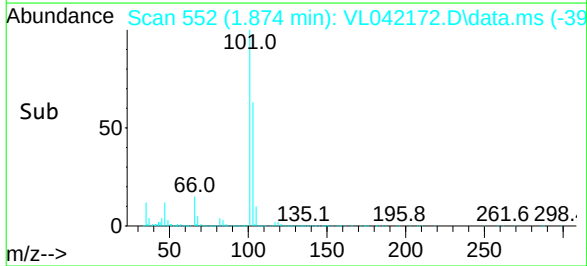
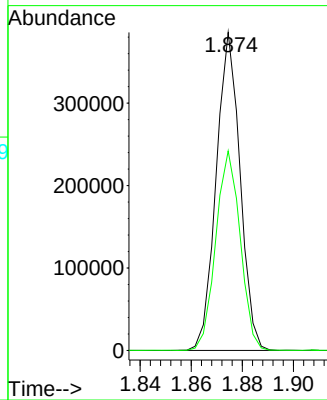
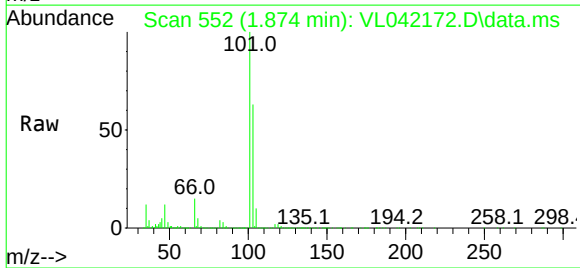
103 62.7 50.2 75.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 03/31/2025

Supervised By :Mahesh Dadoda 04/03/2025



#12

1,1,2-Trichlorotrifluoroethane

Concen: 9.481 ppbv

RT: 2.137 min Scan# 633

Delta R.T. 0.000 min

Lab File: VL042172.D

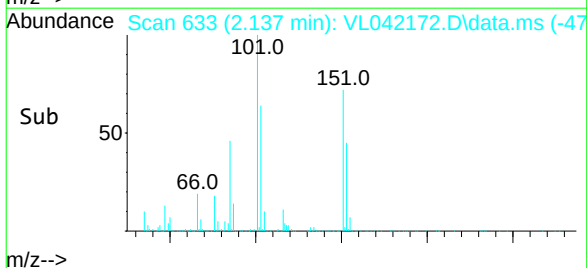
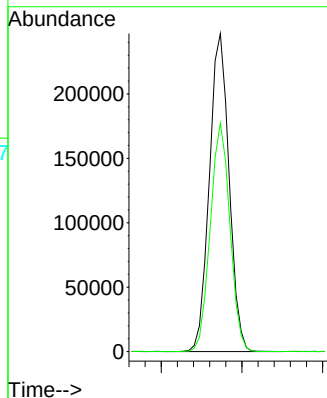
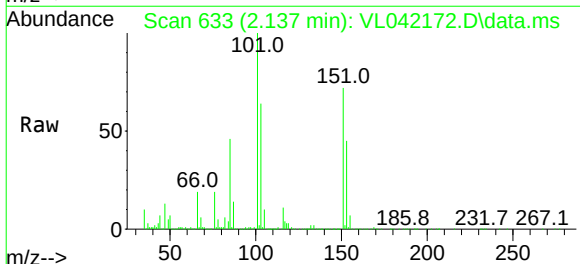
Acq: 27 Mar 2025 08:26

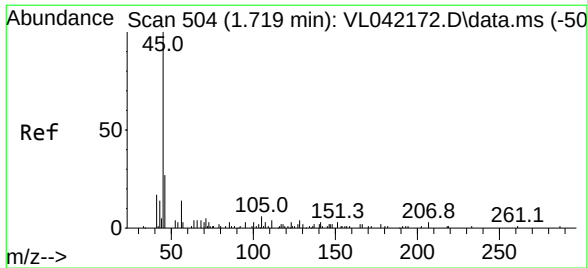
Tgt Ion:101 Resp: 209365

Ion Ratio Lower Upper

101 100

151 71.4 57.1 85.7





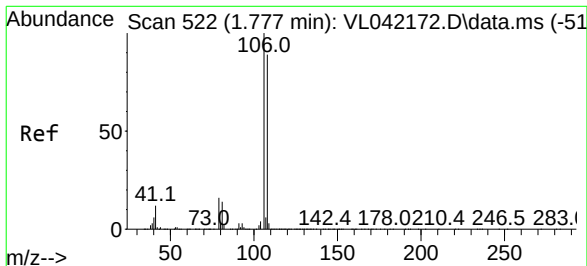
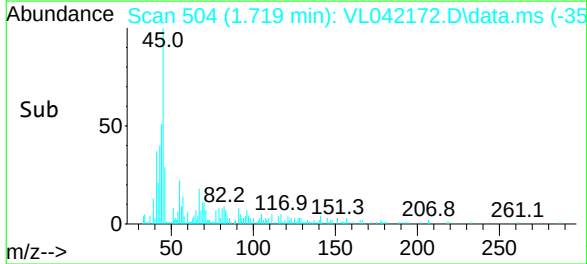
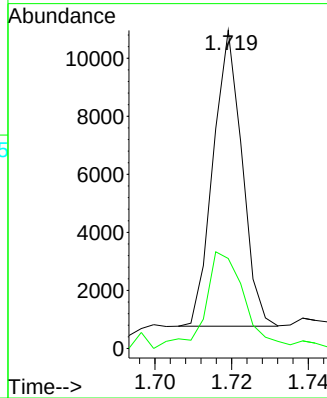
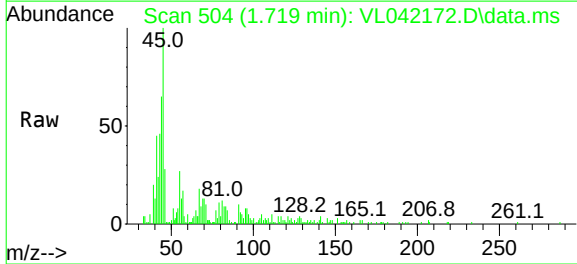
#13
Ethanol
Concen: 5.364 ppbv
RT: 1.719 min Scan# 504
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 45 Resp: 5338
Ion Ratio Lower Upper
45 100
46 50.5 20.2 80.8

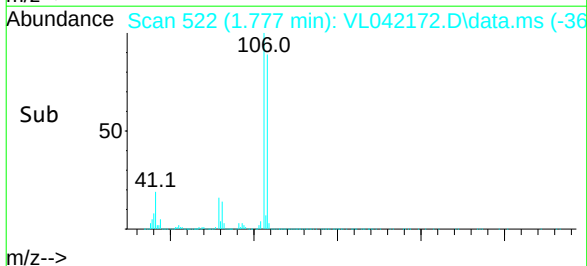
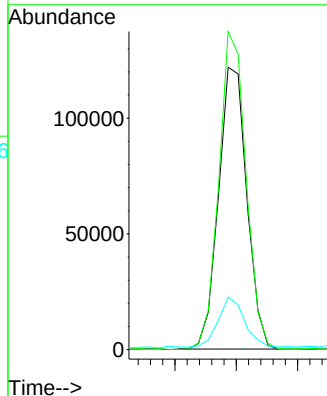
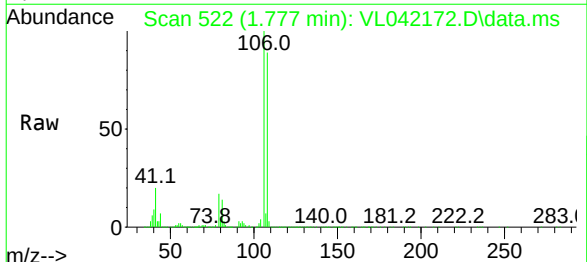
Manual Integrations
APPROVED

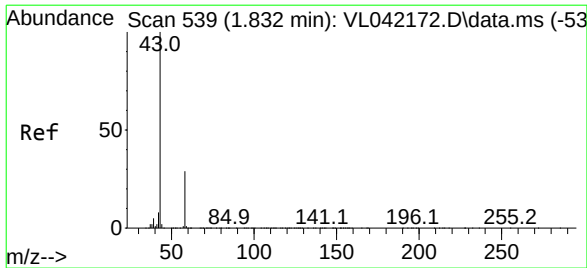
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#14
Bromoethene
Concen: 9.220 ppbv
RT: 1.777 min Scan# 522
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

Tgt Ion:108 Resp: 77999
Ion Ratio Lower Upper
108 100
106 108.5 86.8 130.2
79 18.8 15.0 22.6





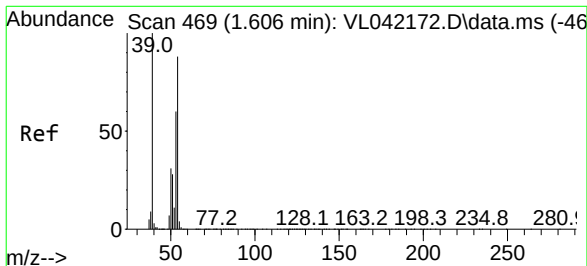
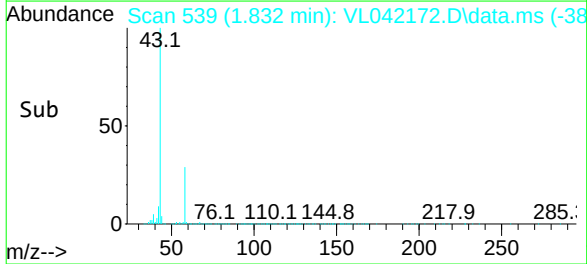
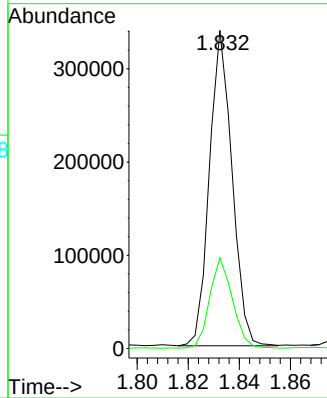
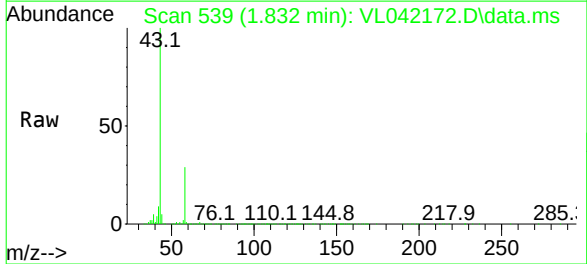
#15
Acetone
Concen: 7.955 ppbv
RT: 1.832 min Scan# 539
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 43 Resp: 208061
Ion Ratio Lower Upper
43 100
58 29.0 23.2 34.8

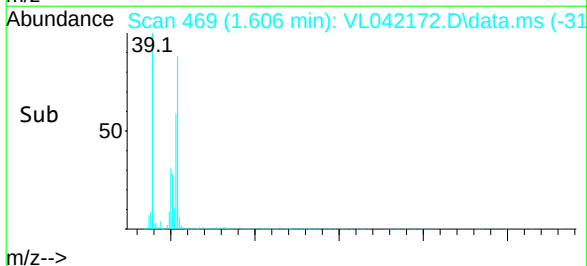
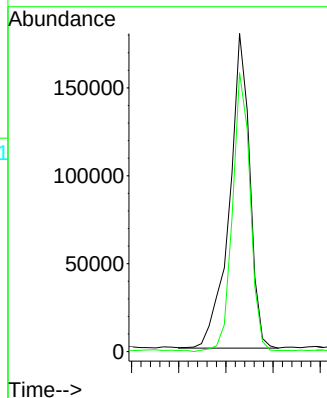
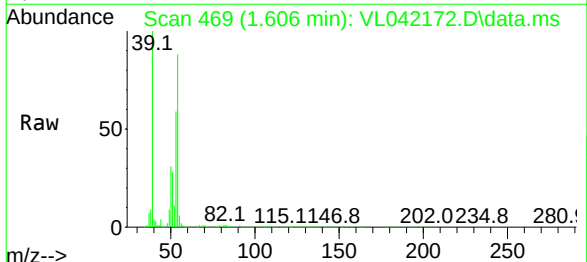
Manual Integrations
APPROVED

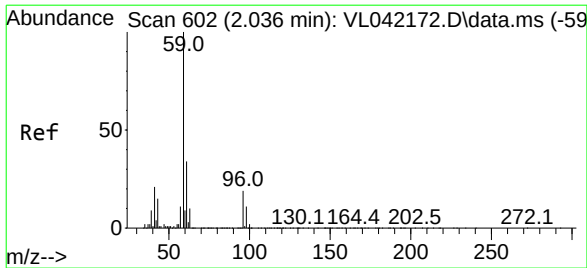
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#16
1,3-Butadiene
Concen: 9.105 ppbv
RT: 1.606 min Scan# 469
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

Tgt Ion: 39 Resp: 107104
Ion Ratio Lower Upper
39 100
54 75.9 60.7 91.1





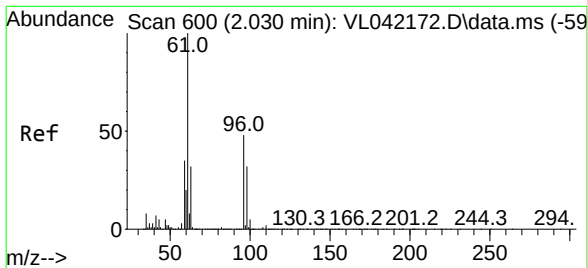
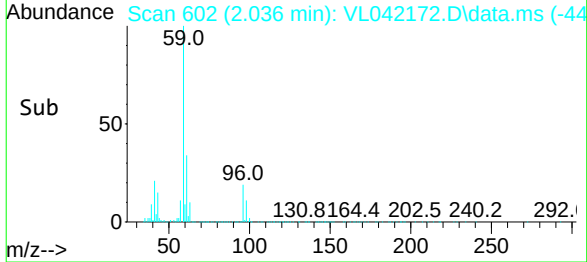
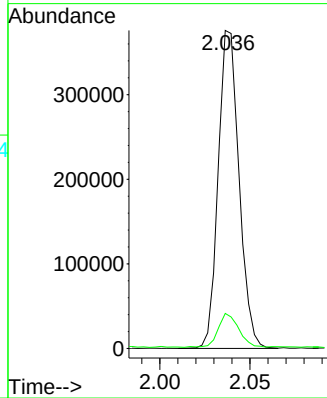
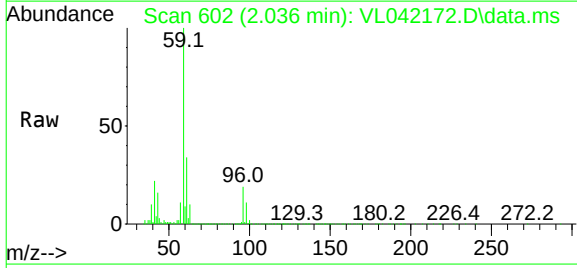
#17
tert-Butyl alcohol
Concen: 9.290 ppbv
RT: 2.036 min Scan# 602
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 59 Resp: 302616
Ion Ratio Lower Upper
59 100
57 11.1 8.9 13.3

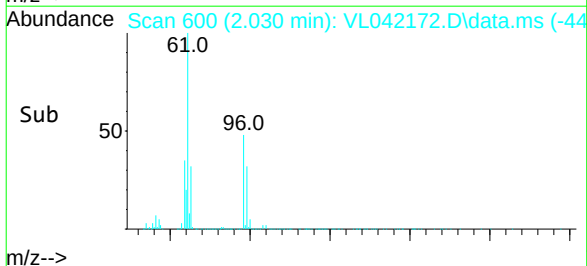
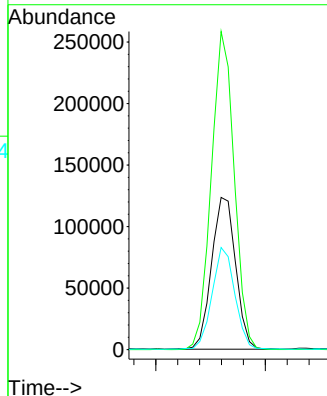
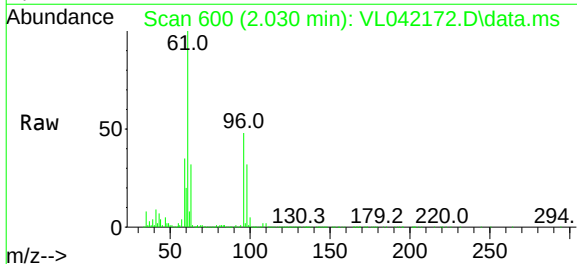
Manual Integrations
APPROVED

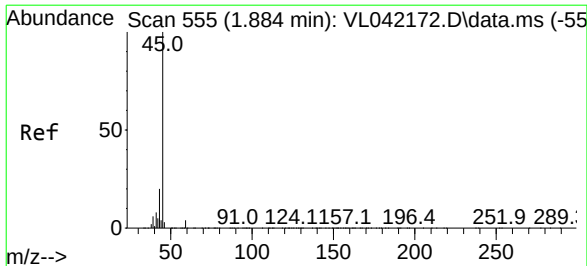
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#18
1,1-Dichloroethene
Concen: 9.128 ppbv
RT: 2.030 min Scan# 600
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

Tgt Ion: 96 Resp: 94236
Ion Ratio Lower Upper
96 100
61 209.5 167.6 251.4
98 66.9 53.5 80.3





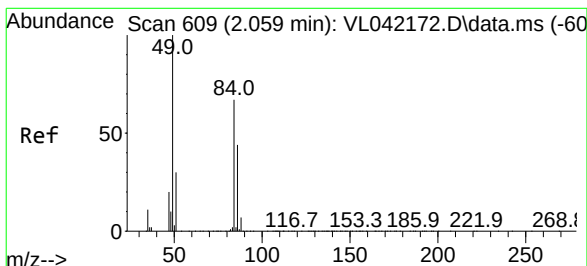
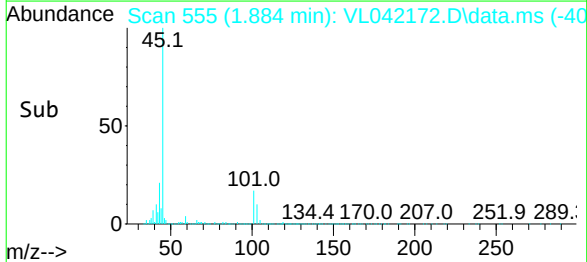
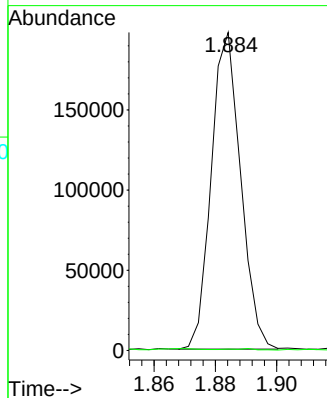
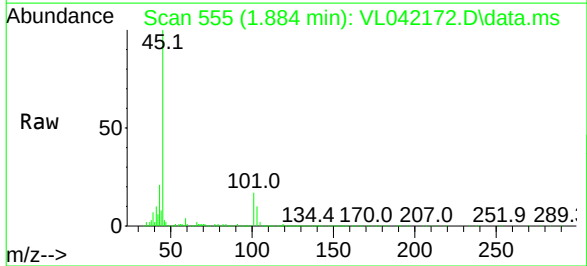
#19
Isopropyl Alcohol
Concen: 8.902 ppbv
RT: 1.884 min Scan# 555
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 45 Resp: 131359
Ion Ratio Lower Upper
45 100
58 46.1 36.9 55.3

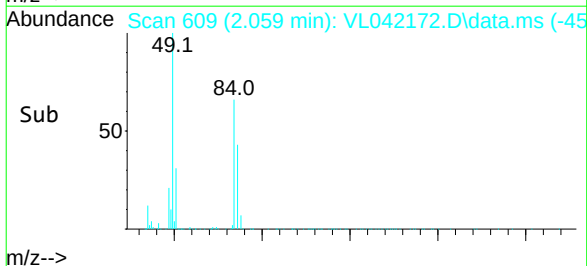
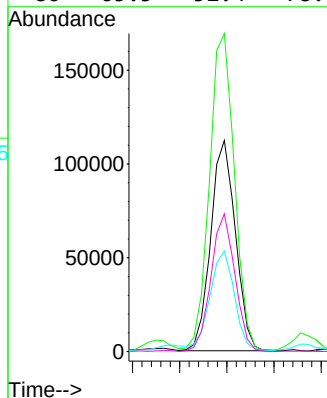
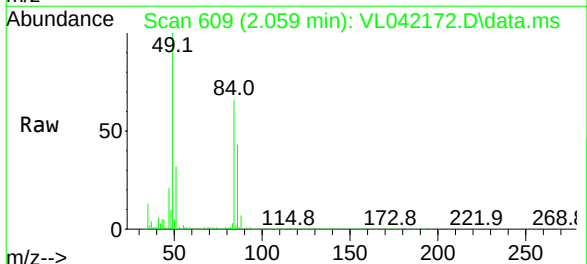
Manual Integrations
APPROVED

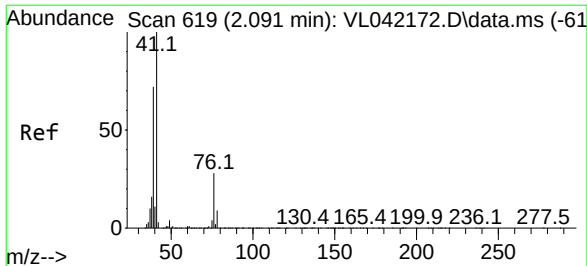
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#20
Methylene Chloride
Concen: 8.401 ppbv
RT: 2.059 min Scan# 609
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

Tgt Ion: 84 Resp: 81828
Ion Ratio Lower Upper
84 100
49 150.3 120.2 180.4
51 46.7 37.4 56.0
86 65.5 52.4 78.6





#21

Allyl Chloride

Concen: 9.141 ppbv

RT: 2.091 min Scan# 619

Delta R.T. 0.000 min

Lab File: VL042172.D

Acq: 27 Mar 2025 08:26

Instrument :

MSVOA_L

ClientSampleId :

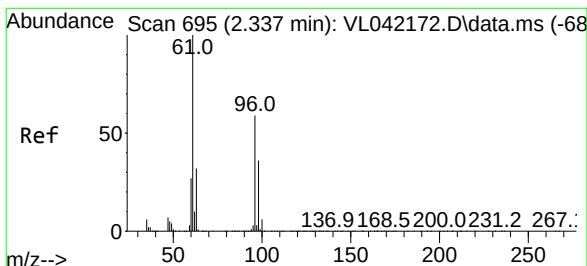
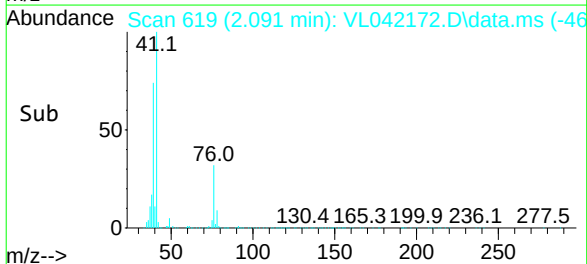
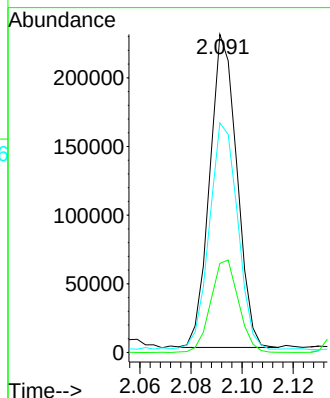
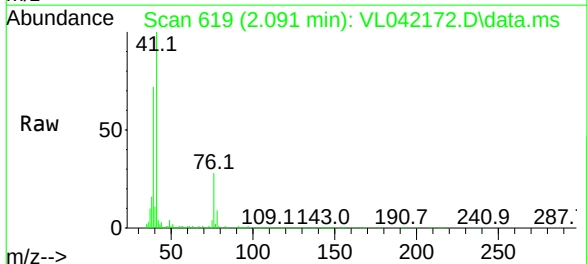
VSTDICCC010

Tgt Ion:	41	Resp:	168602
Ion	Ratio	Lower	Upper
41	100		
76	30.1	24.1	36.1
39	76.4	61.1	91.7

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#22

trans-1,2-Dichloroethene

Concen: 9.149 ppbv

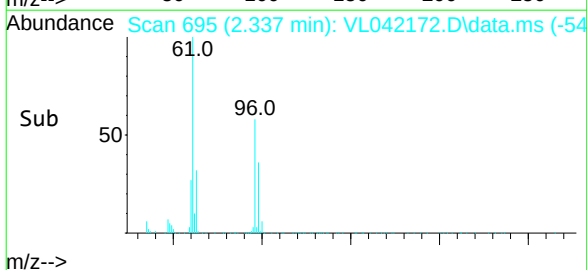
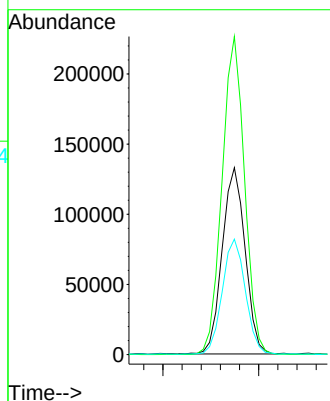
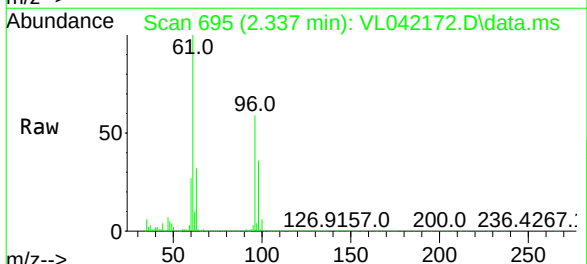
RT: 2.337 min Scan# 695

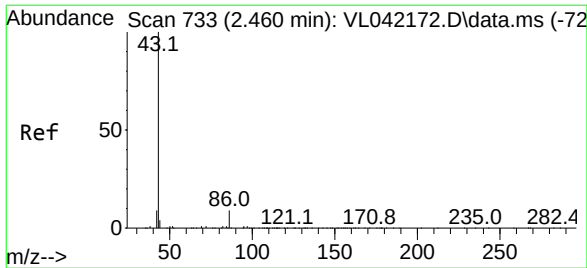
Delta R.T. 0.000 min

Lab File: VL042172.D

Acq: 27 Mar 2025 08:26

Tgt Ion:	96	Resp:	110371
Ion	Ratio	Lower	Upper
96	100		
61	170.7	136.6	204.8
98	61.8	49.4	74.2





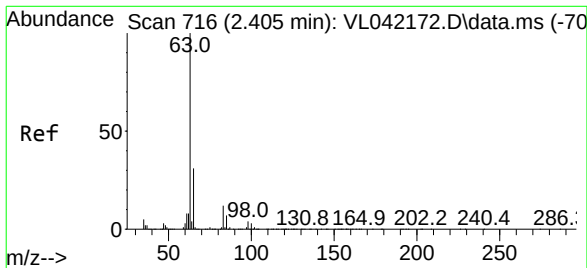
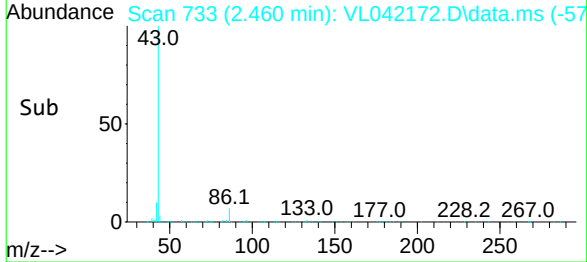
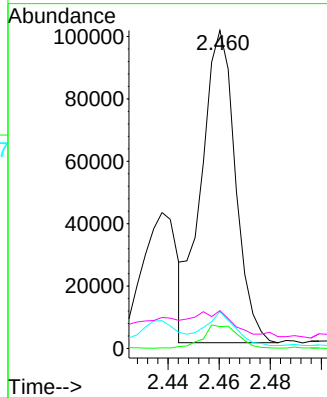
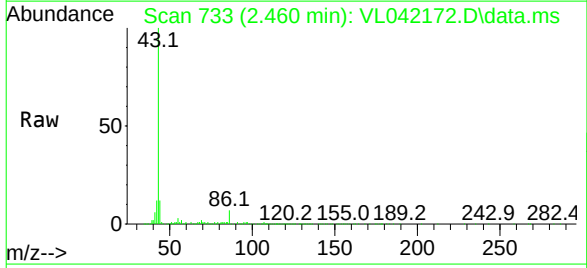
#23
 Vinyl Acetate
 Concen: 8.563 ppbv
 RT: 2.460 min Scan# 733
 Delta R.T. 0.000 min
 Lab File: VL042172.D
 Acq: 27 Mar 2025 08:26

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Tgt Ion: 43	Resp: 93080
Ion Ratio	Lower Upper
43 100	
86 6.9	5.5 8.3
42 10.8	8.6 13.0
44 7.8	6.2 9.4

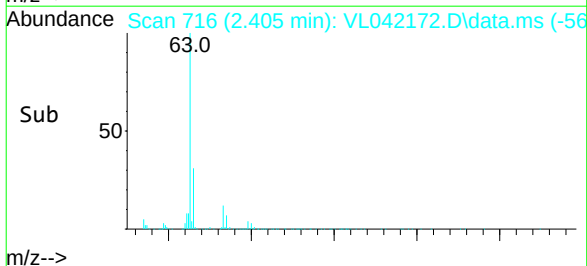
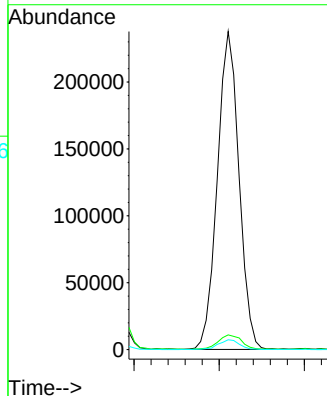
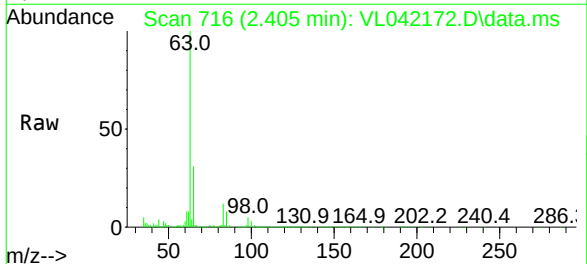
Manual Integrations
 APPROVED

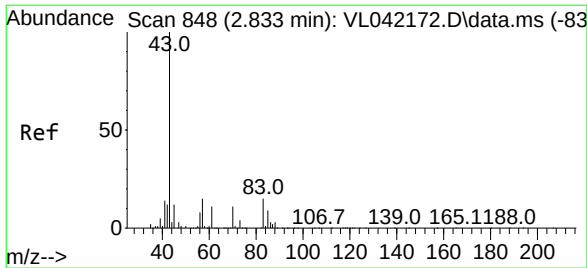
Reviewed By :Semsettin Yesilyurt 03/31/2025
 Supervised By :Mahesh Dadoda 04/03/2025



#24
 1,1-Dichloroethane
 Concen: 9.484 ppbv
 RT: 2.405 min Scan# 716
 Delta R.T. 0.000 min
 Lab File: VL042172.D
 Acq: 27 Mar 2025 08:26

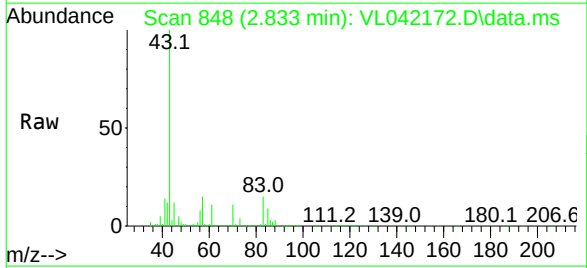
Tgt Ion: 63	Resp: 209753
Ion Ratio	Lower Upper
63 100	
98 4.5	2.3 6.8
100 3.1	1.6 4.7





#25
Ethyl Acetate
Concen: 9.524 ppbv
RT: 2.833 min Scan# 848
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

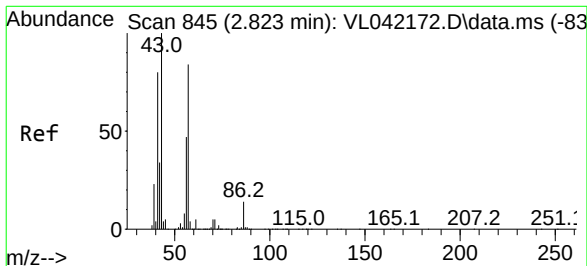
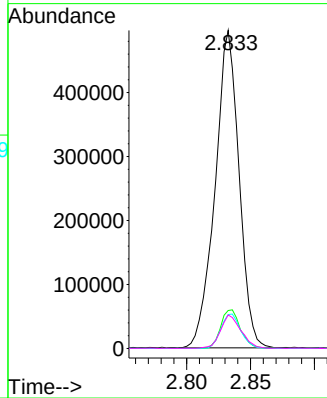
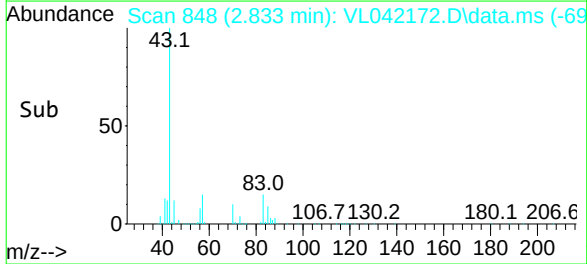
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



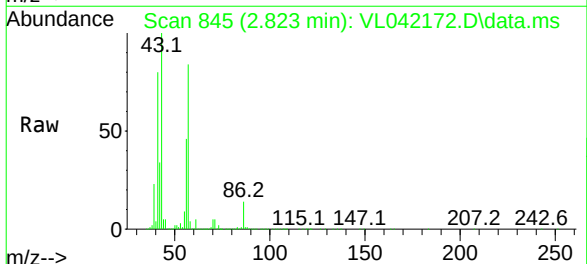
Tgt Ion	Ratio	Lower	Upper
43	100		
45	10.2	8.2	12.2
61	9.1	7.3	10.9
70	9.0	7.2	10.8

Manual Integrations
APPROVED

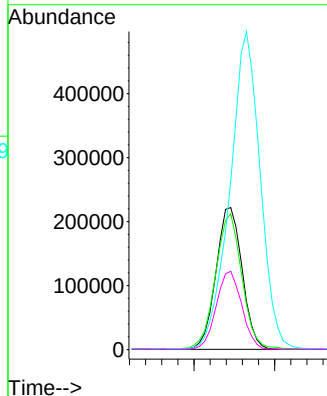
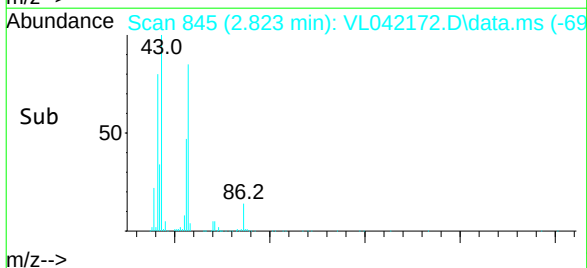
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025

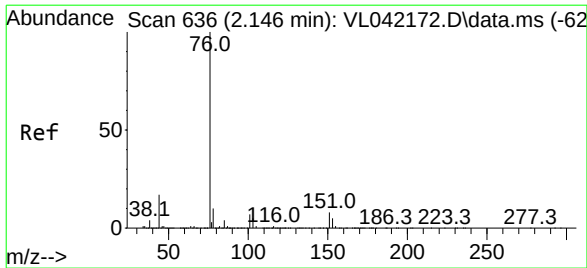


#26
Hexane
Concen: 9.510 ppbv
RT: 2.823 min Scan# 845
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26



Tgt Ion	Ratio	Lower	Upper
57	100		
41	95.7	76.6	114.8
43	259.8	207.8	311.8
56	54.5	43.6	65.4





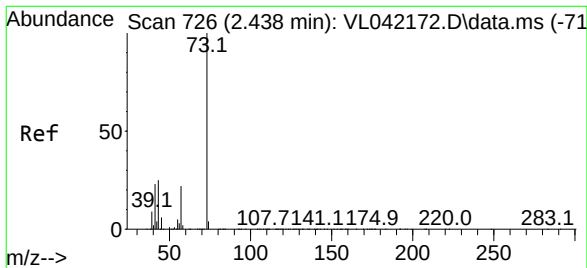
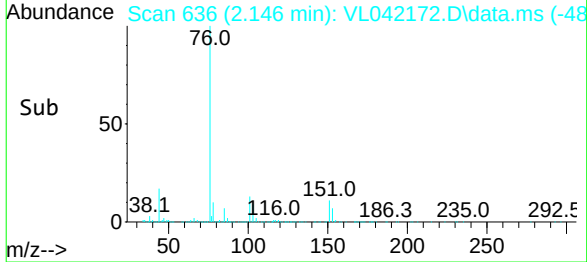
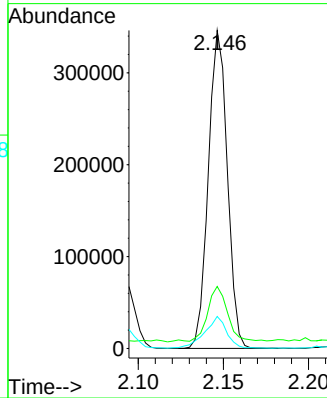
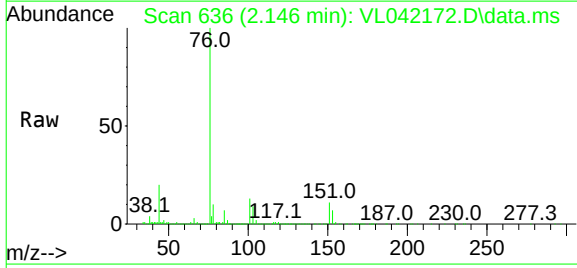
#27
Carbon Disulfide
Concen: 9.550 ppbv
RT: 2.146 min Scan# 636
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 76 Resp: 268507
Ion Ratio Lower Upper
76 100
44 18.4 14.7 22.1
78 11.6 9.3 13.9

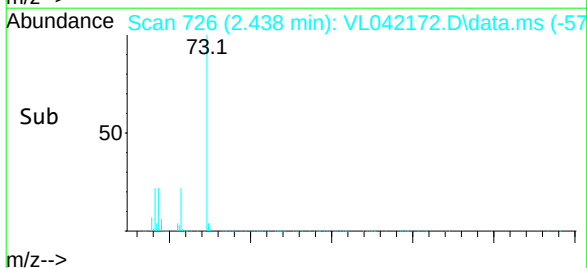
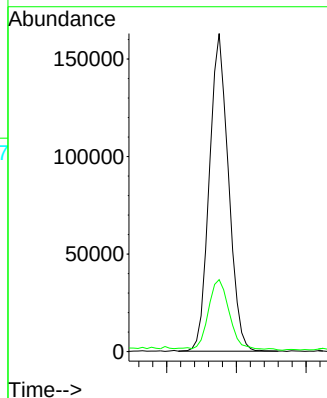
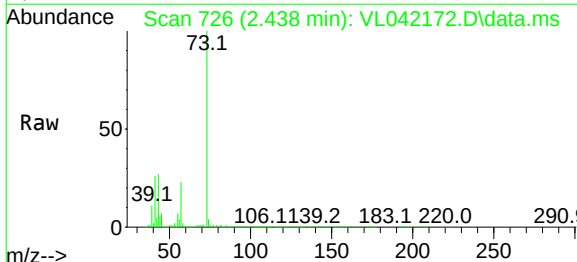
Manual Integrations
APPROVED

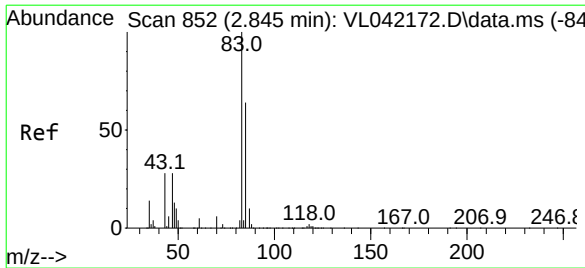
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#28
Methyl tert-Butyl Ether
Concen: 9.520 ppbv
RT: 2.438 min Scan# 726
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

Tgt Ion: 73 Resp: 155398
Ion Ratio Lower Upper
73 100
57 25.6 20.5 30.7





#29

Chloroform

Concen: 9.415 ppbv

RT: 2.845 min Scan# 85

Delta R.T. 0.000 min

Lab File: VL042172.D

Acq: 27 Mar 2025 08:26

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tgt Ion: 83 Resp: 361264

Ion Ratio Lower Upper

83 100

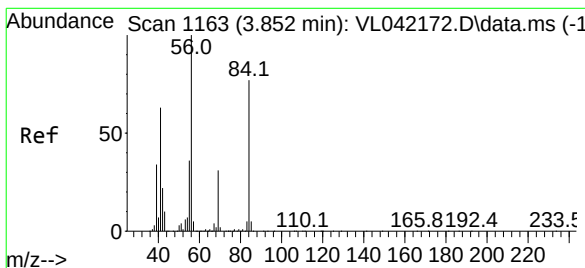
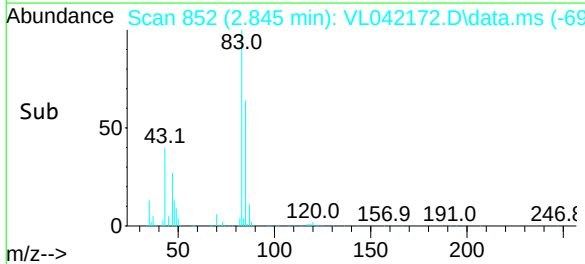
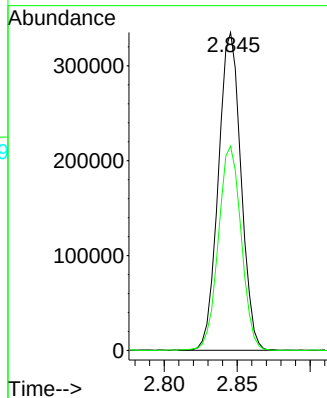
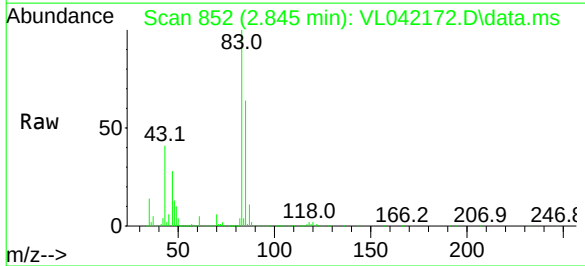
85 64.3 51.4 77.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 03/31/2025

Supervised By :Mahesh Dadoda 04/03/2025



#30

Cyclohexane

Concen: 9.537 ppbv

RT: 3.852 min Scan# 1163

Delta R.T. 0.000 min

Lab File: VL042172.D

Acq: 27 Mar 2025 08:26

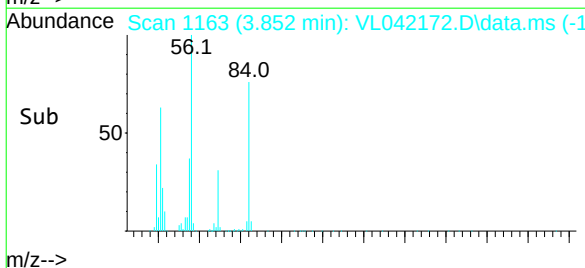
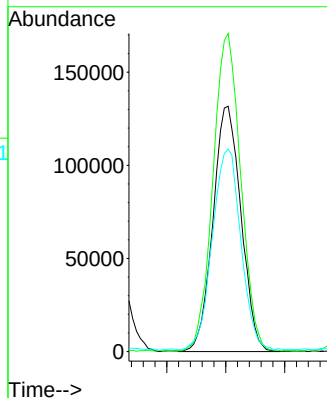
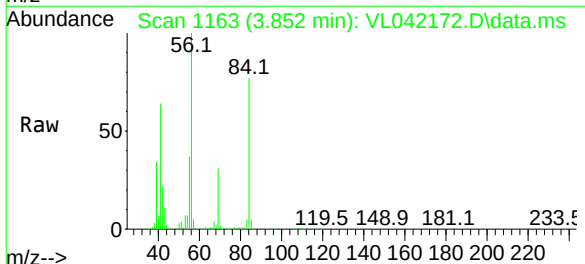
Tgt Ion: 84 Resp: 217215

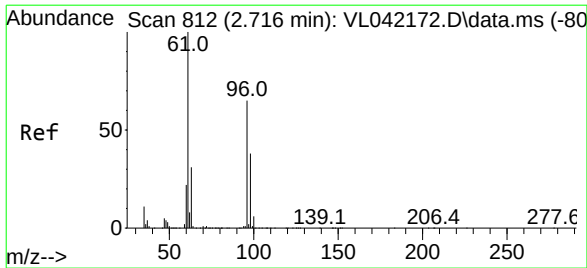
Ion Ratio Lower Upper

84 100

56 128.5 102.8 154.2

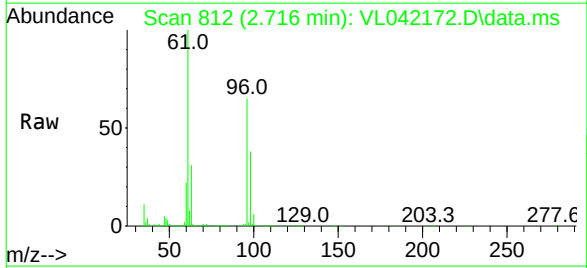
41 83.1 66.5 99.7





#31
cis-1,2-Dichloroethene
Concen: 9.634 ppbv
RT: 2.716 min Scan# 812
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

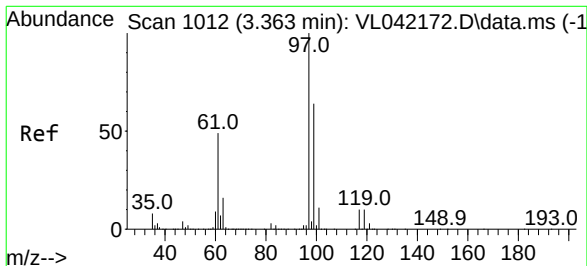
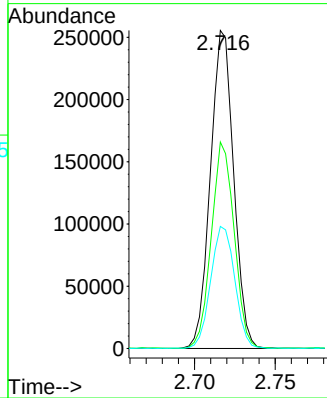
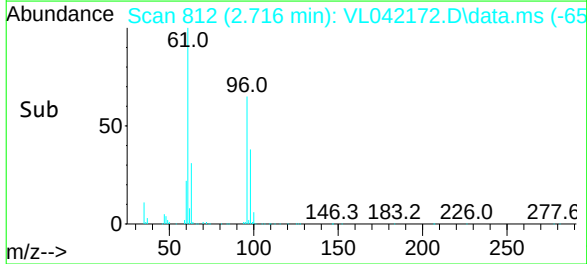
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



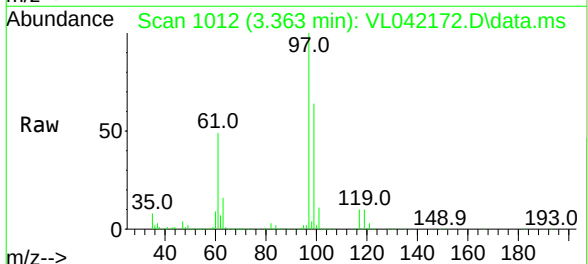
Tgt Ion: 61 Resp: 256425
Ion Ratio Lower Upper
61 100
96 64.8 51.8 77.8
98 38.3 30.6 46.0

Manual Integrations
APPROVED

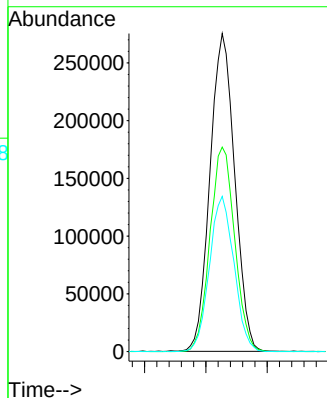
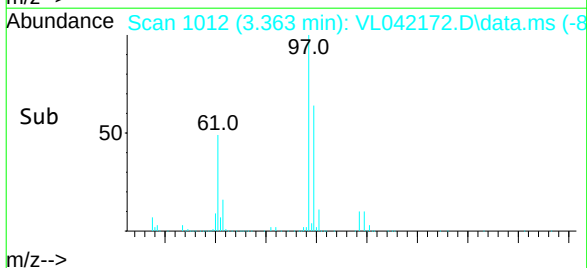
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025

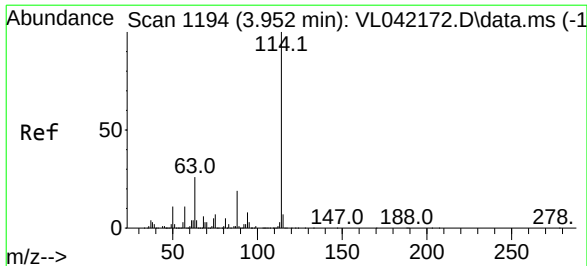


#32
1,1,1-Trichloroethane
Concen: 8.784 ppbv
RT: 3.363 min Scan# 1012
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26



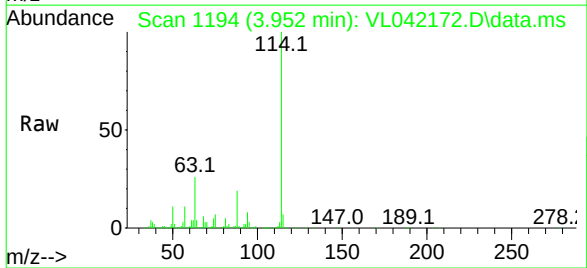
Tgt Ion: 97 Resp: 385628
Ion Ratio Lower Upper
97 100
99 64.4 51.5 77.3
61 48.4 38.7 58.1





#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.952 min Scan# 1194
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

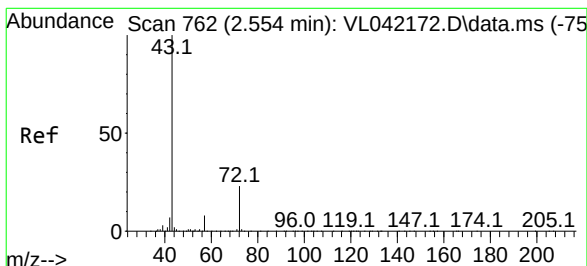
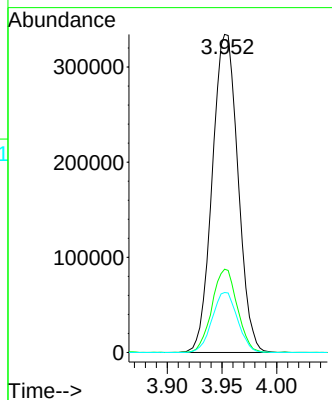
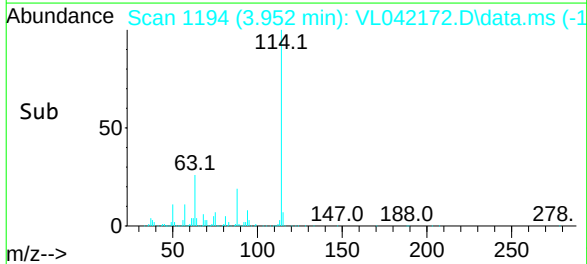
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



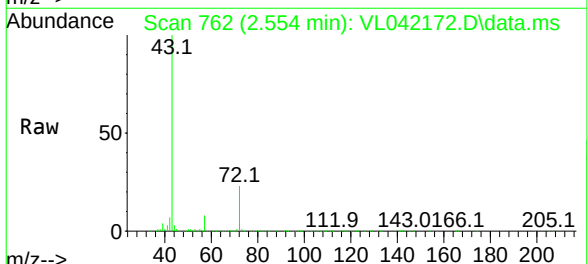
Tgt Ion: 114 Resp: 545068
Ion Ratio Lower Upper
114 100
63 25.9 20.7 31.1
88 18.7 15.0 22.4

Manual Integrations
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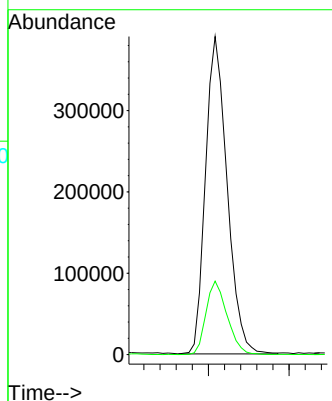
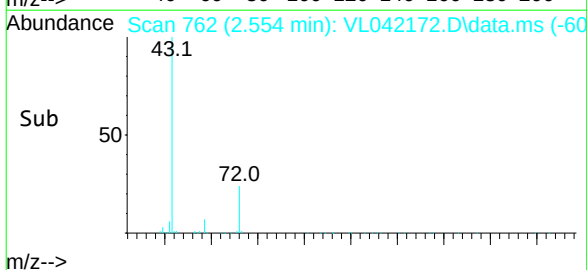
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025

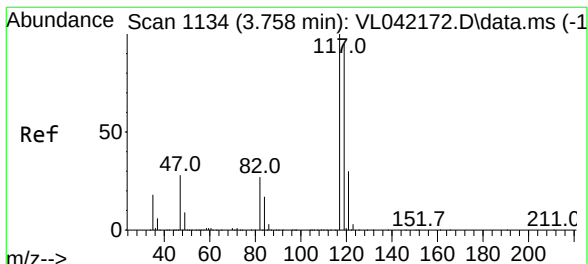


#34
2-Butanone
Concen: 9.203 ppbv
RT: 2.554 min Scan# 762
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26



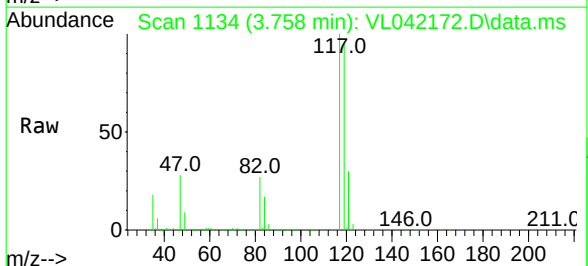
Tgt Ion: 43 Resp: 363735
Ion Ratio Lower Upper
43 100
72 22.7 18.2 27.2





#35
Carbon Tetrachloride
Concen: 9.129 ppbv
RT: 3.758 min Scan# 1134
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

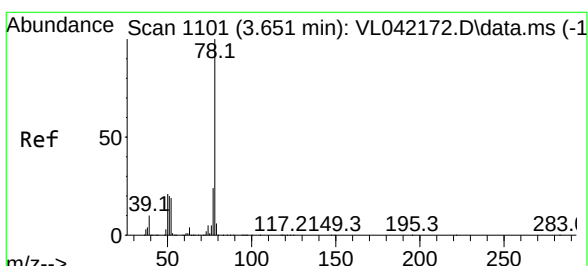
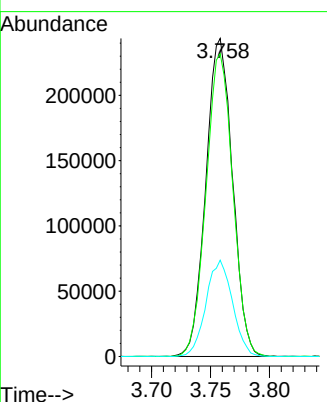
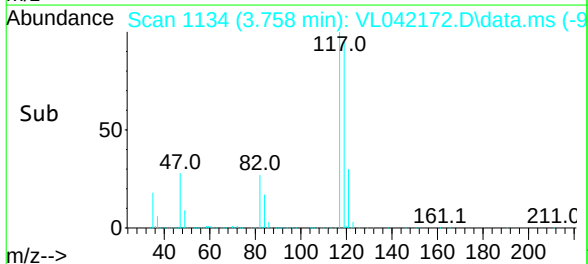
Instrument : MSVOA_L
ClientSampleId : VSTDICCC010



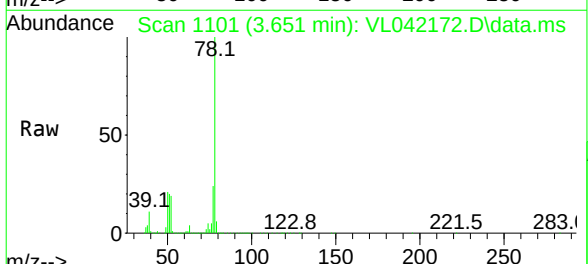
Tgt Ion: 117 Resp: 382925

Ion	Ratio	Lower	Upper
117	100		
119	95.2	76.2	114.2
121	30.3	24.2	36.4

Manual Integrations
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Reviewed By : Semsettin Yesilyurt 03/31/2025
Supervised By : Mahesh Dadoda 04/03/2025

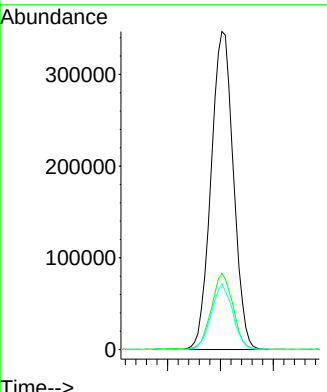
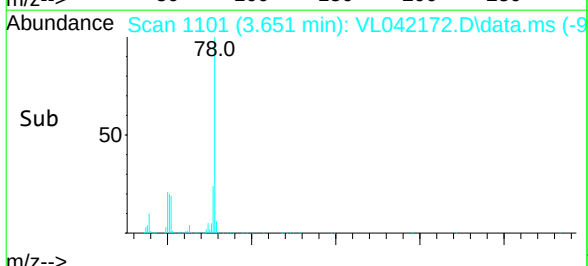


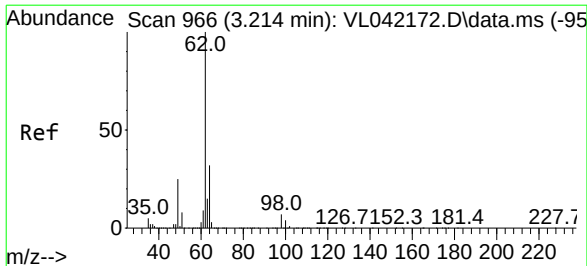
#36
Benzene
Concen: 9.417 ppbv
RT: 3.651 min Scan# 1101
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26



Tgt Ion: 78 Resp: 508860

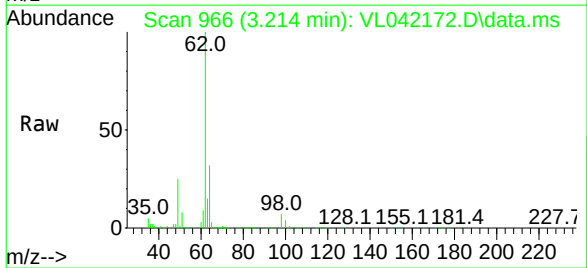
Ion	Ratio	Lower	Upper
78	100		
77	23.9	19.1	28.7
50	20.7	16.6	24.8





#37
1,2-Dichloroethane
Concen: 9.469 ppbv
RT: 3.214 min Scan# 966
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

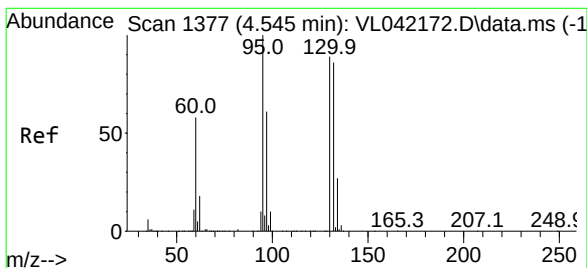
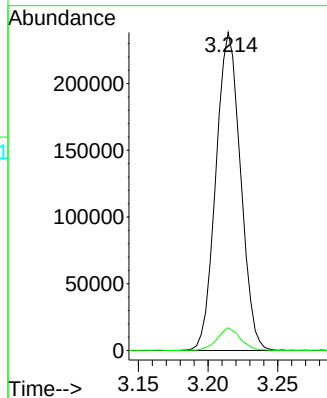
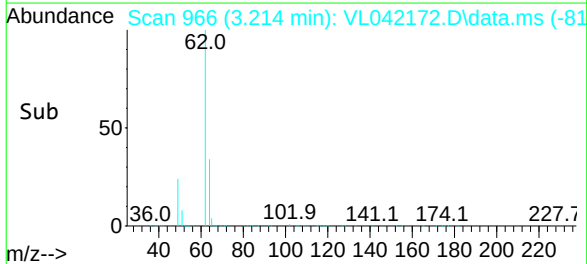
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



Tgt Ion: 62 Resp: 292937
Ion Ratio Lower Upper
62 100
98 6.8 5.4 8.2

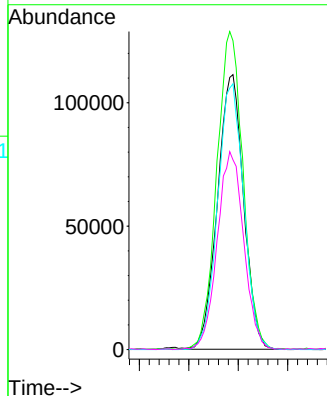
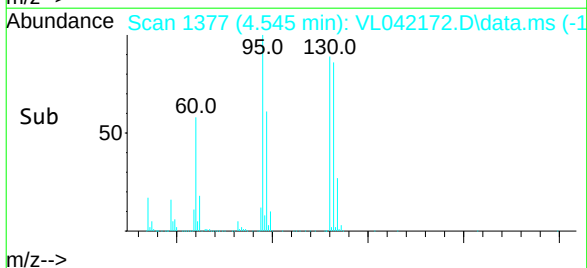
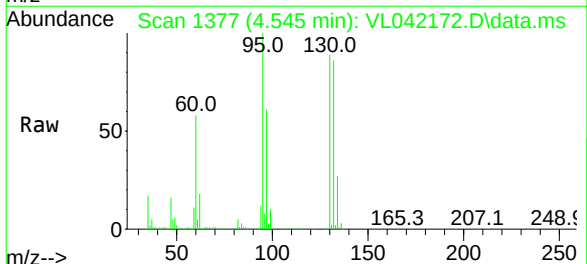
Manual Integrations
APPROVED

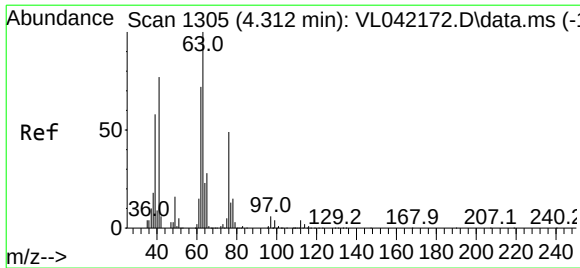
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#38
Trichloroethene
Concen: 9.045 ppbv
RT: 4.545 min Scan# 1377
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

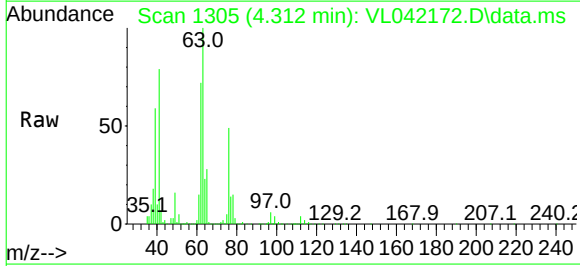
Tgt Ion:130 Resp: 204027
Ion Ratio Lower Upper
130 100
95 112.3 89.8 134.8
132 96.8 77.4 116.2
97 68.9 55.1 82.7





#39
 1,2-Dichloropropane
 Concen: 9.321 ppbv
 RT: 4.312 min Scan# 1305
 Delta R.T. 0.000 min
 Lab File: VL042172.D
 Acq: 27 Mar 2025 08:26

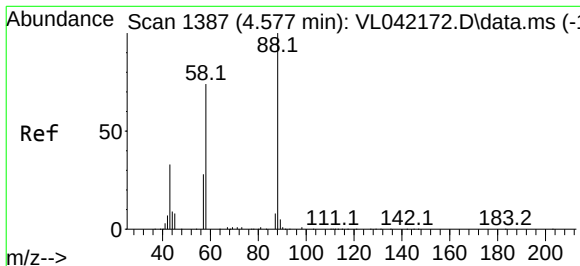
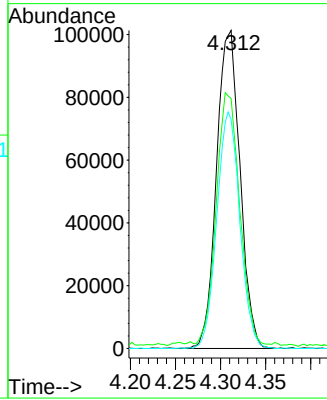
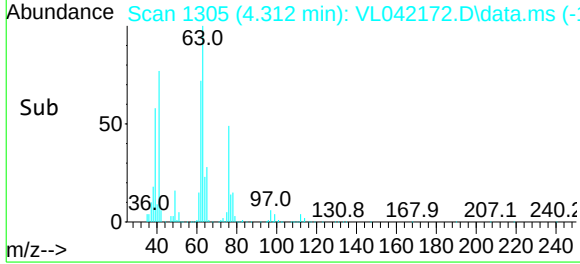
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDICCC010



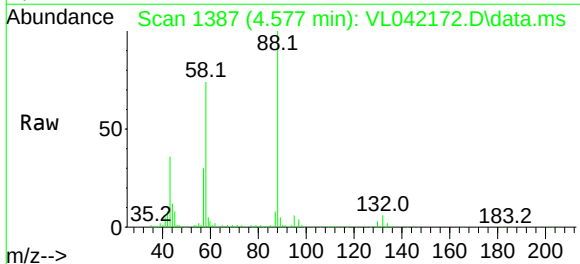
Tgt Ion: 63 Resp: 183439
 Ion Ratio Lower Upper
 63 100
 41 77.1 61.7 92.5
 62 72.0 57.6 86.4

Manual Integrations
 APPROVED

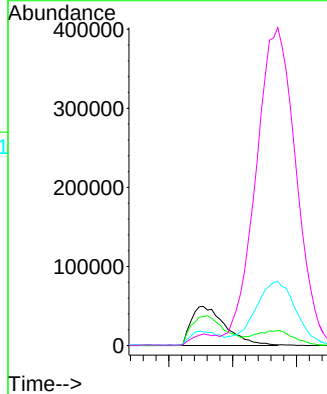
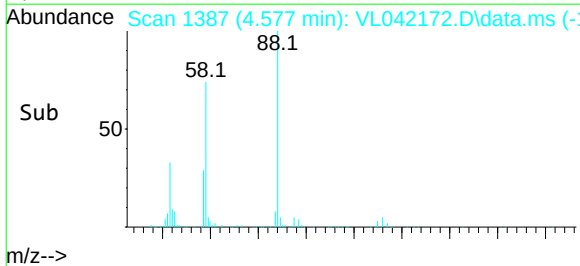
Reviewed By :Semsettin Yesilyurt 03/31/2025
 Supervised By :Mahesh Dadoda 04/03/2025

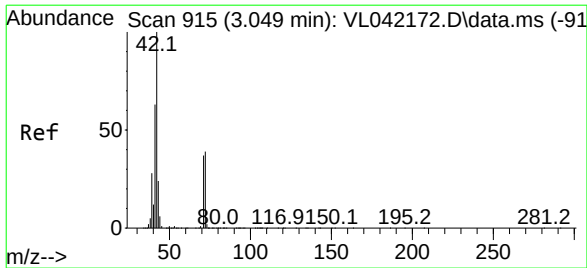


#40
 1,4-Dioxane
 Concen: 9.042 ppbv
 RT: 4.577 min Scan# 1387
 Delta R.T. 0.000 min
 Lab File: VL042172.D
 Acq: 27 Mar 2025 08:26



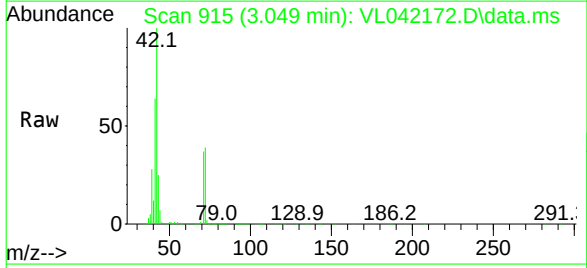
Tgt Ion: 88 Resp: 92327
 Ion Ratio Lower Upper
 88 100
 58 78.4 62.7 94.1
 43 28.7 23.0 34.4
 57 0.0 0.0 0.0





#41
Tetrahydrofuran
Concen: 9.643 ppbv
RT: 3.049 min Scan# 915
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

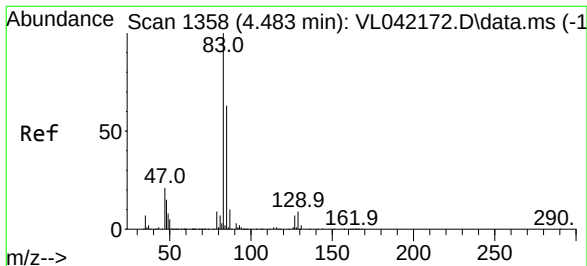
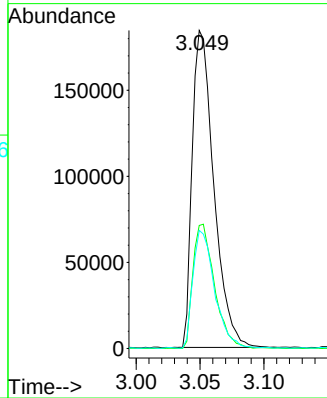
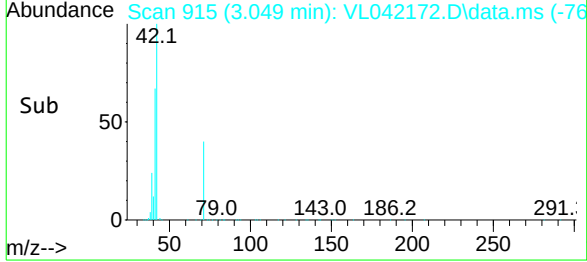
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



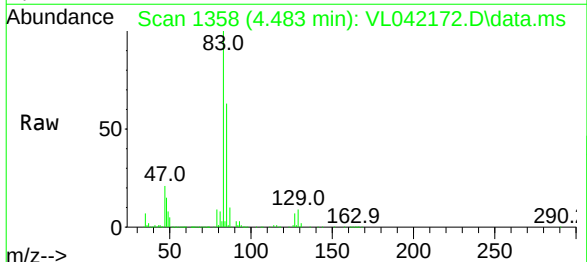
Tgt Ion: 42 Resp: 216851
Ion Ratio Lower Upper
42 100
72 39.2 31.4 47.0
71 37.8 30.2 45.4

Manual Integrations
APPROVED

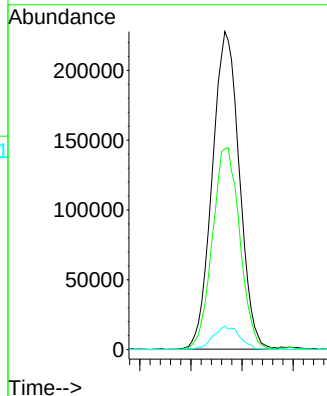
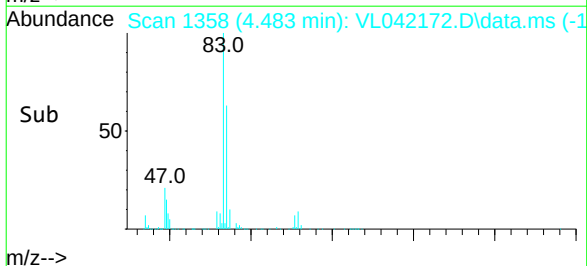
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025

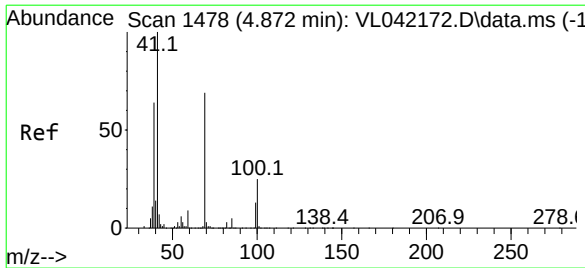


#42
Bromodichloromethane
Concen: 9.822 ppbv
RT: 4.483 min Scan# 1358
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26



Tgt Ion: 83 Resp: 418887
Ion Ratio Lower Upper
83 100
85 63.1 50.5 75.7
127 7.4 5.9 8.9





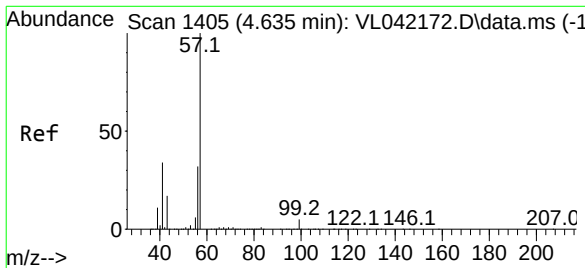
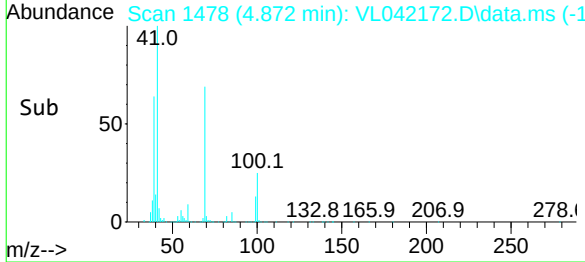
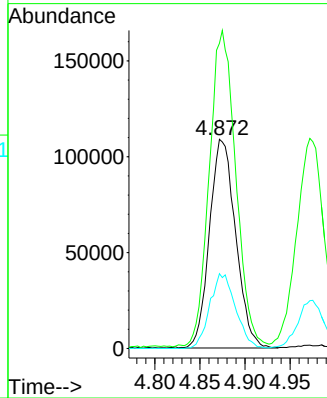
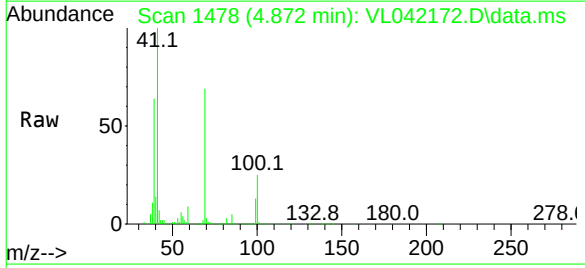
#43
Methyl Methacrylate
Concen: 9.618 ppbv
RT: 4.872 min Scan# 1478
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

Instrument :
MSVOA_1
ClientSampleId :
VSTDICCC010

Tgt Ion: 69 Resp: 219399
Ion Ratio Lower Upper
69 100
41 154.7 123.8 185.6
100 35.5 28.4 42.6

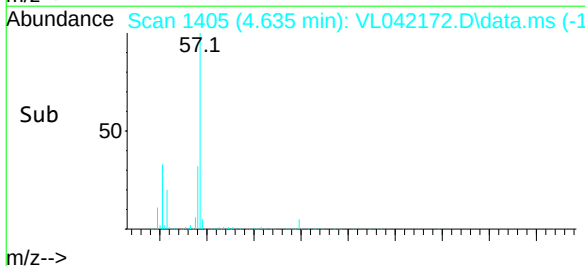
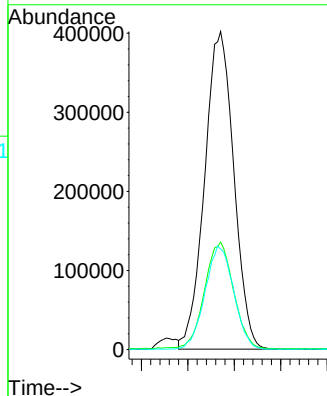
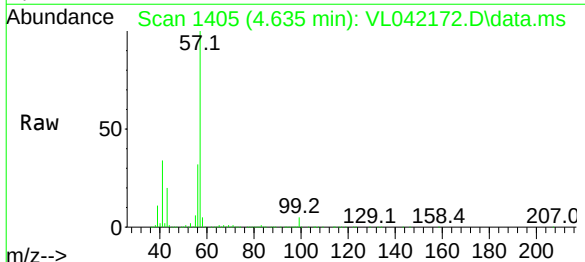
Manual Integrations
APPROVED

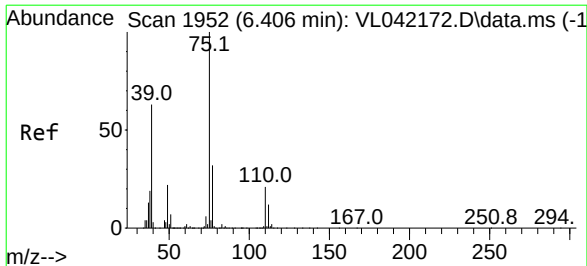
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#44
2,2,4-Trimethylpentane
Concen: 9.600 ppbv
RT: 4.635 min Scan# 1405
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

Tgt Ion: 57 Resp: 876649
Ion Ratio Lower Upper
57 100
41 33.5 26.8 40.2
56 32.0 25.6 38.4





#45

t-1,3-Dichloropropene

Concen: 9.746 ppbv

RT: 6.406 min Scan# 1952

Delta R.T. 0.000 min

Lab File: VL042172.D

Acq: 27 Mar 2025 08:26

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tgt Ion: 75 Resp: 239180

Ion Ratio Lower Upper

75 100

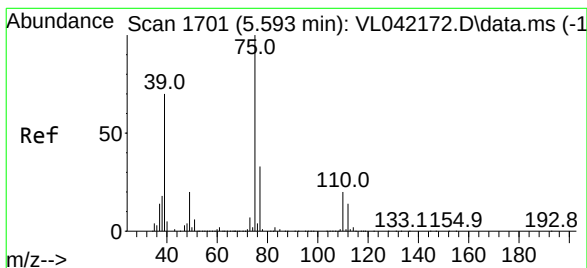
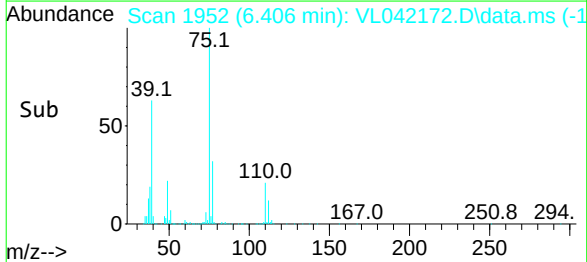
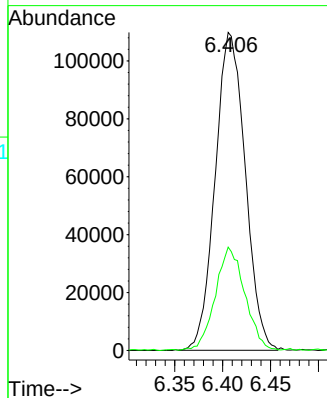
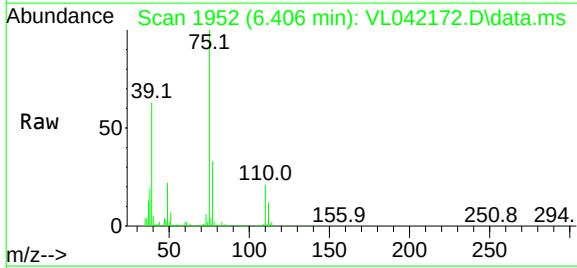
77 32.5 26.0 39.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 03/31/2025

Supervised By :Mahesh Dadoda 04/03/2025



#46

cis-1,3-Dichloropropene

Concen: 9.973 ppbv

RT: 5.593 min Scan# 1701

Delta R.T. 0.000 min

Lab File: VL042172.D

Acq: 27 Mar 2025 08:26

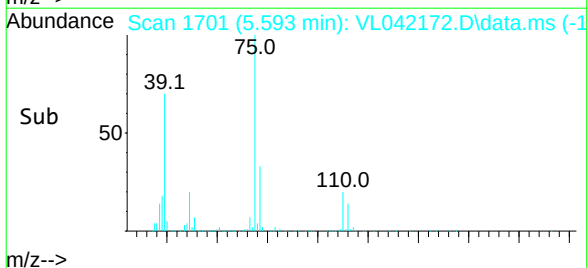
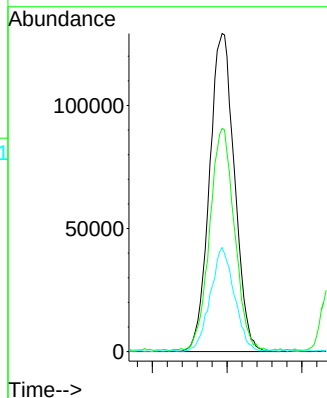
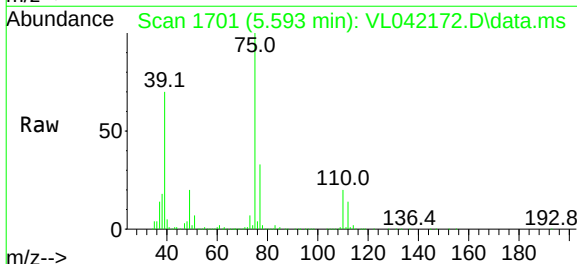
Tgt Ion: 75 Resp: 300021

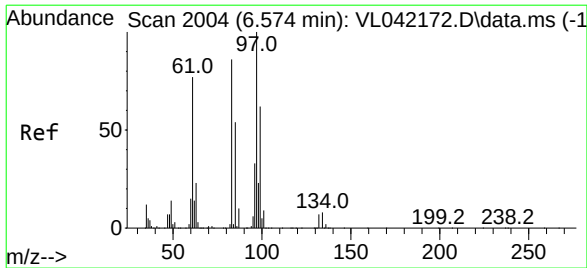
Ion Ratio Lower Upper

75 100

39 69.7 55.8 83.6

77 32.5 26.0 39.0





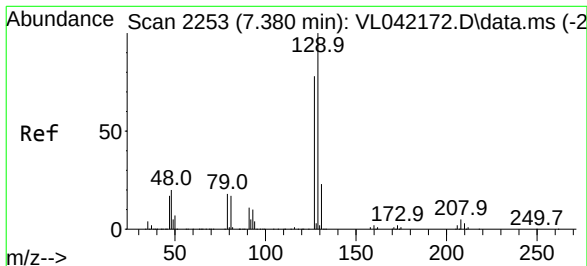
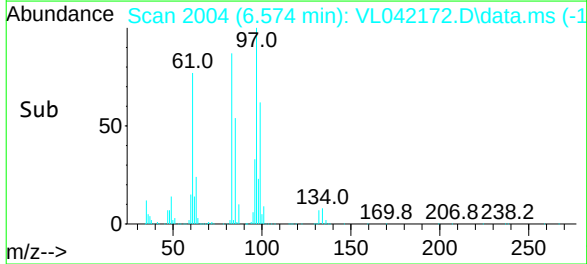
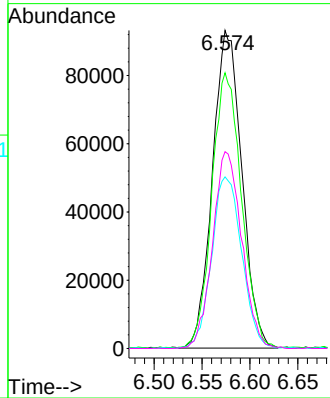
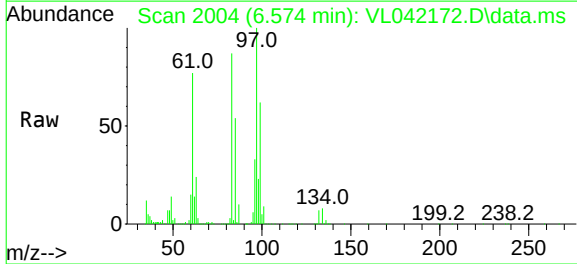
#47
1,1,2-Trichloroethane
Concen: 9.526 ppbv
RT: 6.574 min Scan# 2004
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion	Ratio	Lower	Upper
97	100		
83	86.5	69.2	103.8
85	53.9	43.1	64.7
99	61.8	49.4	74.2

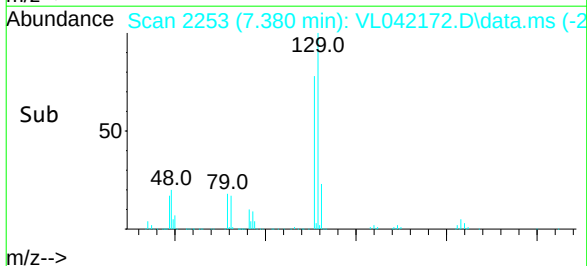
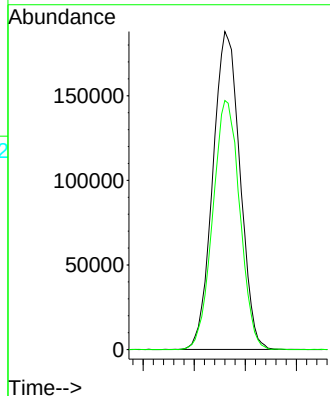
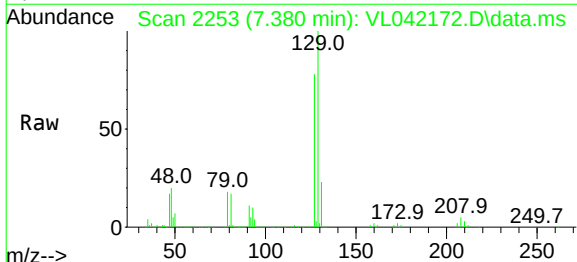
Manual Integrations
APPROVED

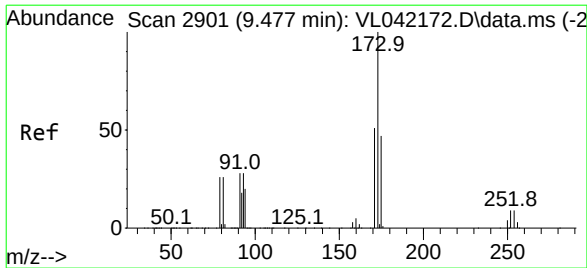
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#48
Dibromochloromethane
Concen: 9.828 ppbv
RT: 7.380 min Scan# 2253
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

Tgt Ion	Ratio	Lower	Upper
129	100		
127	78.1	39.1	117.2





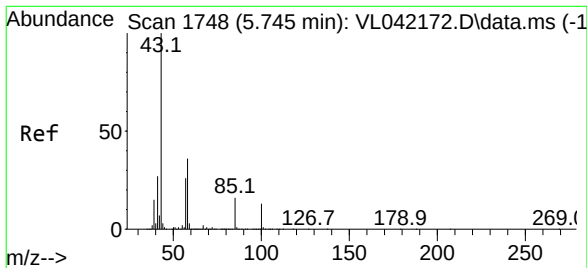
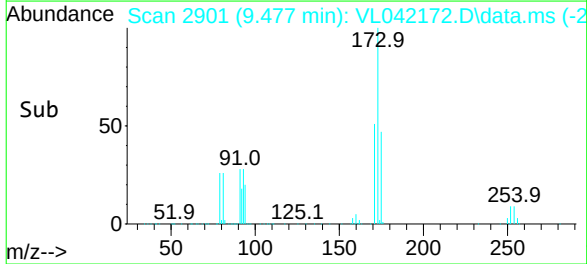
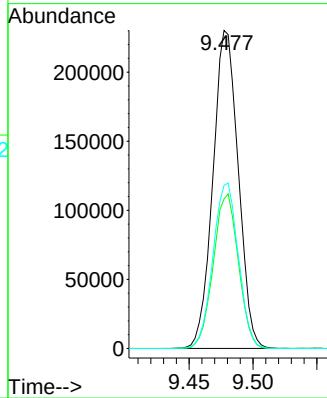
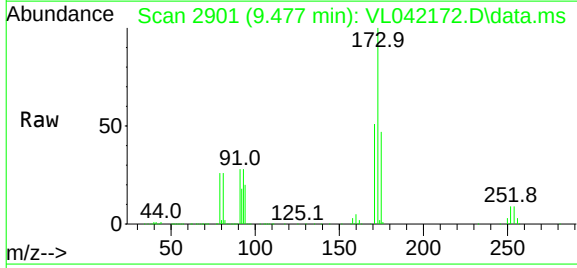
#49
Bromoform
Concen: 10.021 ppbv
RT: 9.477 min Scan# 2901
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 173 Resp: 317189
Ion Ratio Lower Upper
173 100
175 48.2 38.6 57.8
171 52.2 41.8 62.6

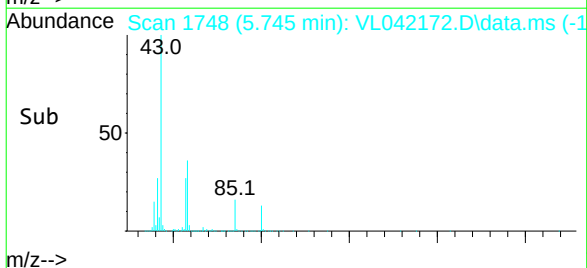
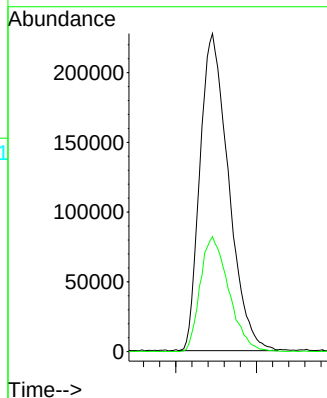
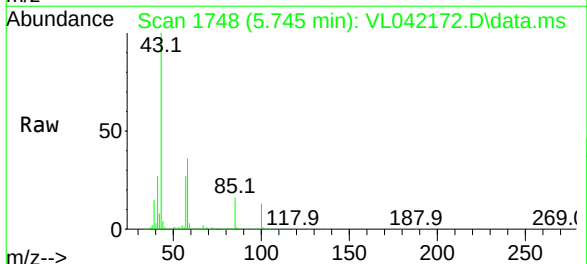
Manual Integrations
APPROVED

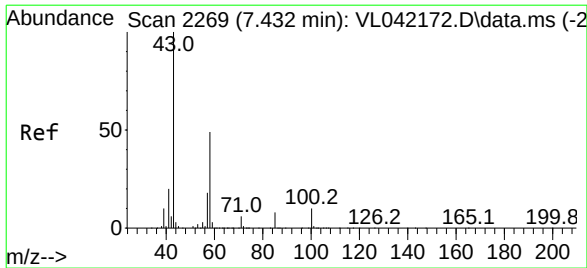
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#50
4-Methyl-2-Pentanone
Concen: 8.934 ppbv
RT: 5.745 min Scan# 1748
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

Tgt Ion: 43 Resp: 559800
Ion Ratio Lower Upper
43 100
58 36.3 29.0 43.6





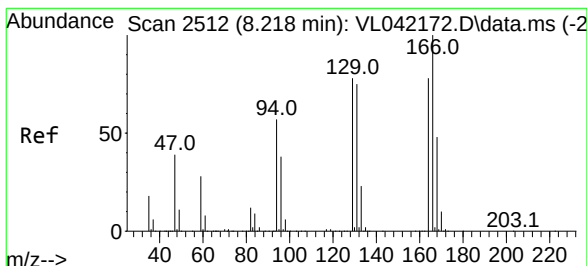
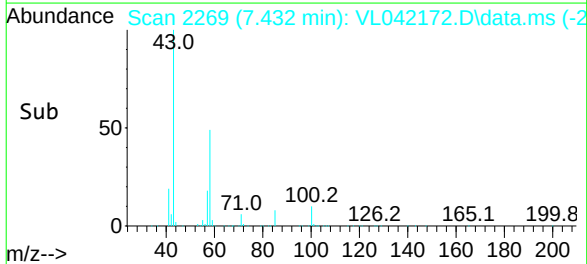
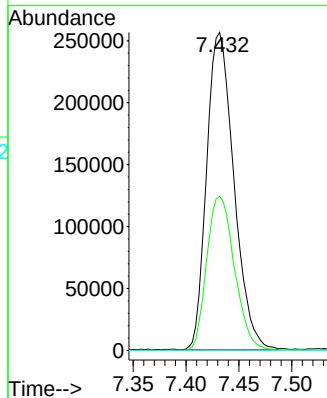
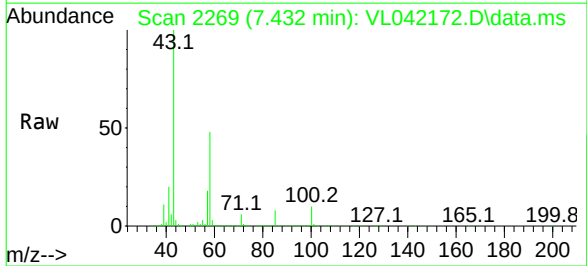
#51
2-Hexanone
Concen: 8.848 ppbv
RT: 7.432 min Scan# 2269
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

Instrument : MSVOA_L
ClientSampleId : VSTDICCC010

Tgt Ion: 43 Resp: 460013
Ion Ratio Lower Upper
43 100
58 49.6 39.7 59.5
98 0.1 0.1 0.1

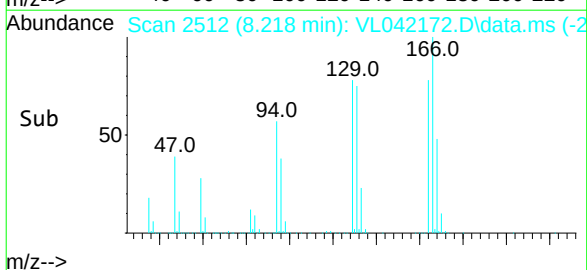
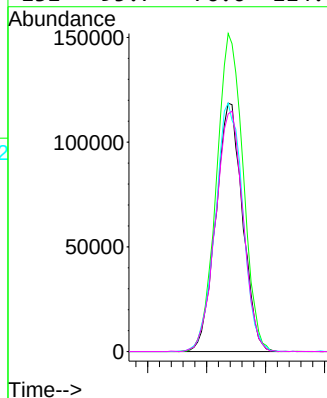
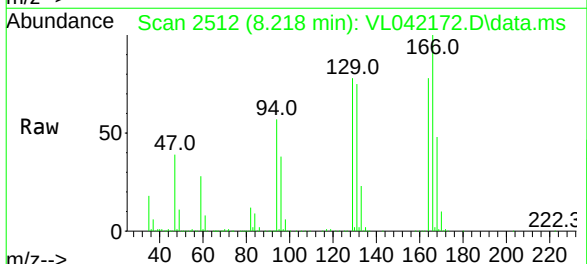
Manual Integrations
APPROVED

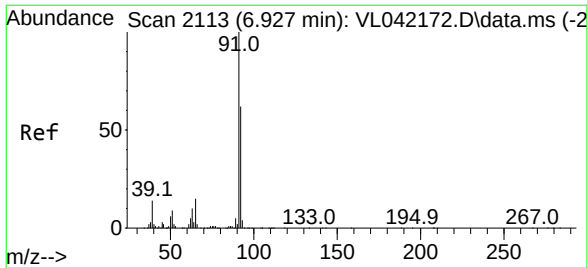
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#52
Tetrachloroethene
Concen: 8.722 ppbv
RT: 8.218 min Scan# 2512
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

Tgt Ion:164 Resp: 186912
Ion Ratio Lower Upper
164 100
166 128.1 102.5 153.7
129 99.8 79.8 119.8
131 95.7 76.6 114.8





#53

Toluene

Concen: 9.576 ppbv

RT: 6.927 min Scan# 2113

Delta R.T. 0.000 min

Lab File: VL042172.D

Acq: 27 Mar 2025 08:26

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tgt Ion: 91 Resp: 613378

Ion Ratio Lower Upper

91 100

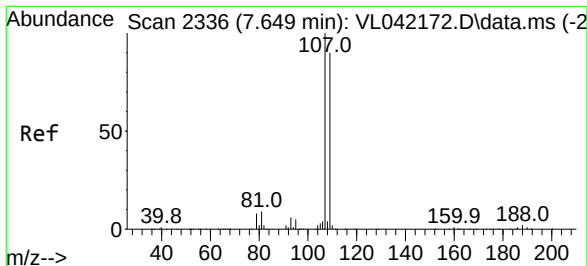
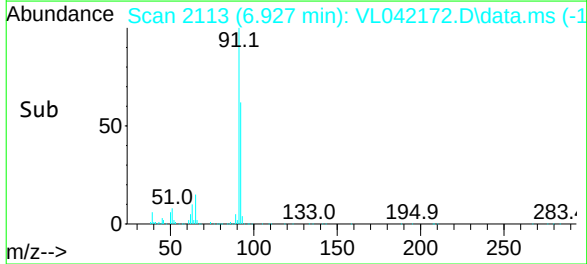
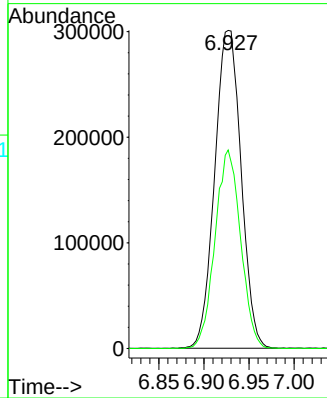
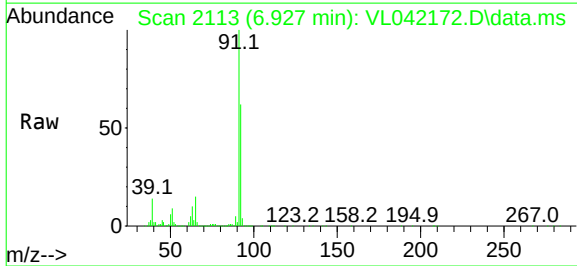
92 60.5 48.4 72.6

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 03/31/2025

Supervised By :Mahesh Dadoda 04/03/2025



#54

1,2-Dibromoethane

Concen: 9.536 ppbv

RT: 7.649 min Scan# 2336

Delta R.T. 0.000 min

Lab File: VL042172.D

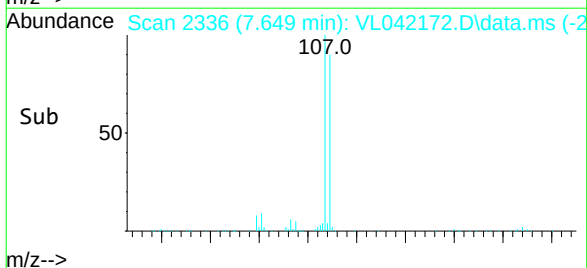
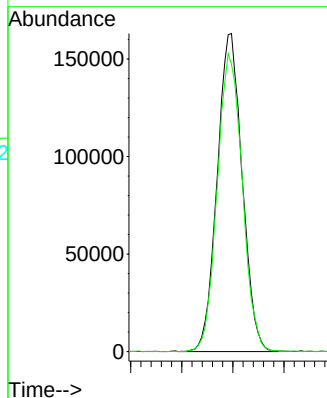
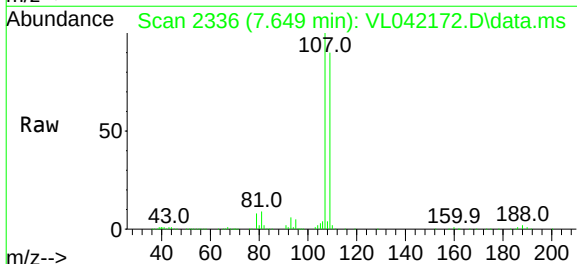
Acq: 27 Mar 2025 08:26

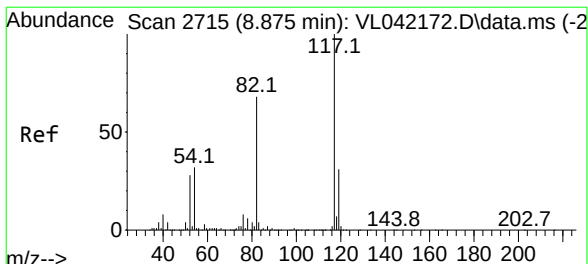
Tgt Ion:107 Resp: 276797

Ion Ratio Lower Upper

107 100

109 90.3 72.2 108.4





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.875 min Scan# 2715
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

Instrument :

MSVOA_L

ClientSampleId :

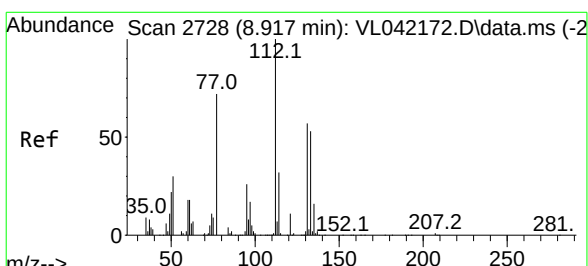
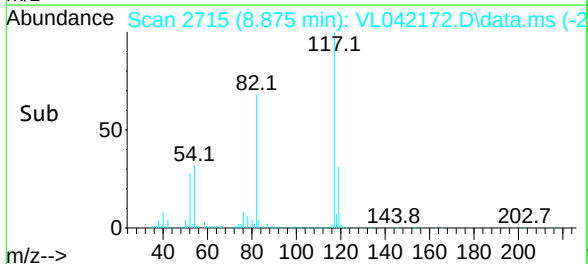
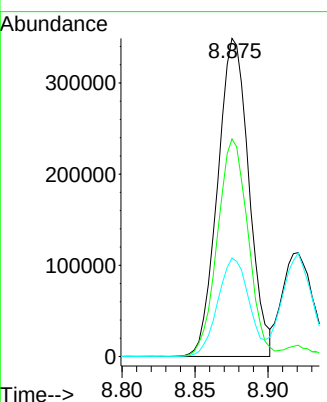
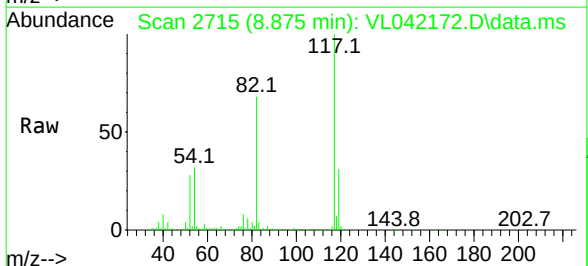
VSTDICCC010

Tgt Ion:117 Resp: 519536

Ion	Ratio	Lower	Upper
117	100		
82	69.7	55.8	83.6
119	31.9	25.5	38.3

Manual Integrations
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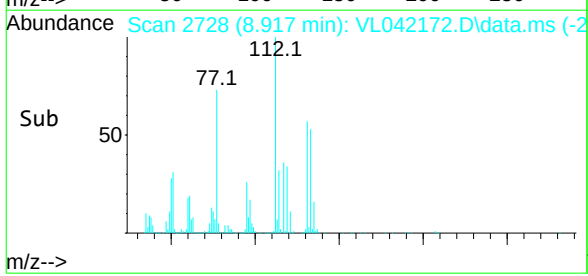
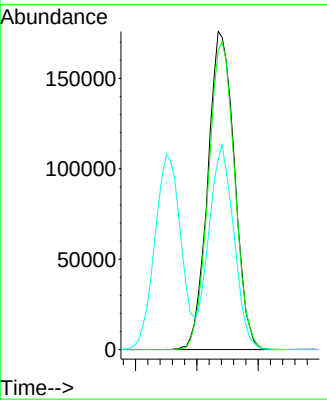
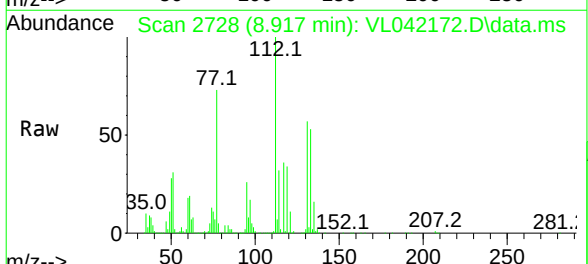
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025

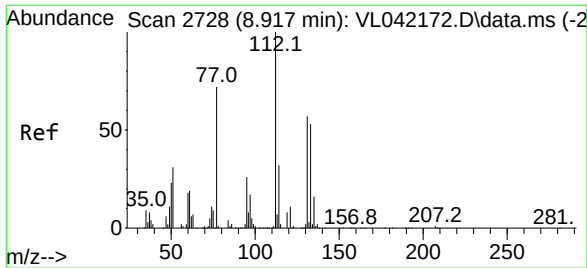


#56
1,1,1,2-Tetrachloroethane
Concen: 9.268 ppbv
RT: 8.917 min Scan# 2728
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

Tgt Ion:131 Resp: 265037

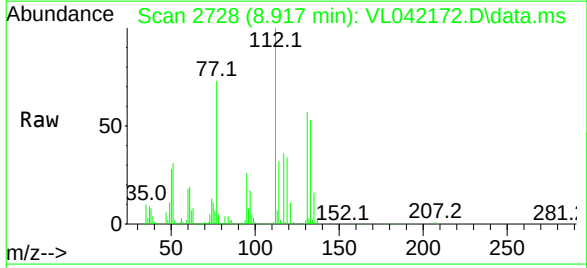
Ion	Ratio	Lower	Upper
131	100		
133	95.7	76.6	114.8
119	62.2	49.8	74.6





#57
Chlorobenzene
Concen: 9.223 ppbv
RT: 8.917 min Scan# 2728
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

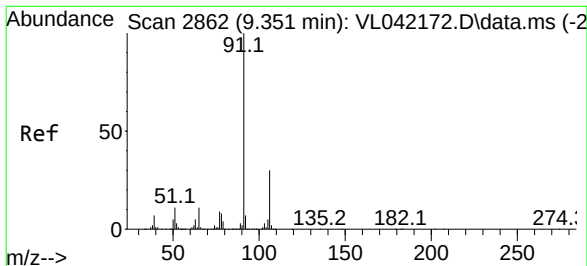
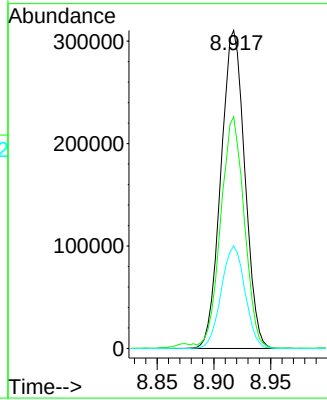
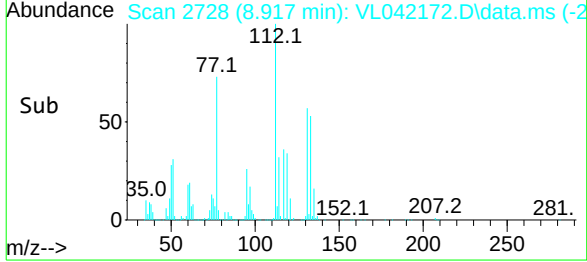
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



Tgt Ion:	112	Resp:	454511
Ion Ratio	Lower	Upper	
112	100		
77	72.7	58.2	87.2
114	32.3	29.1	35.5

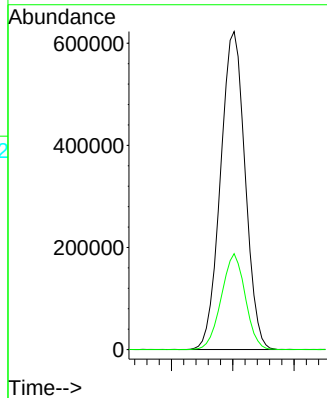
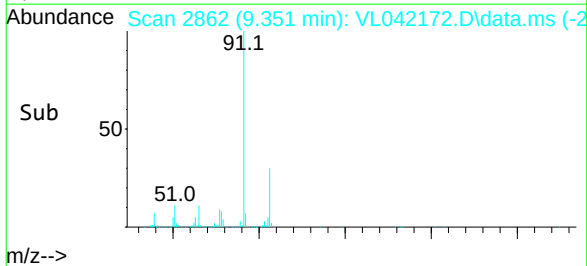
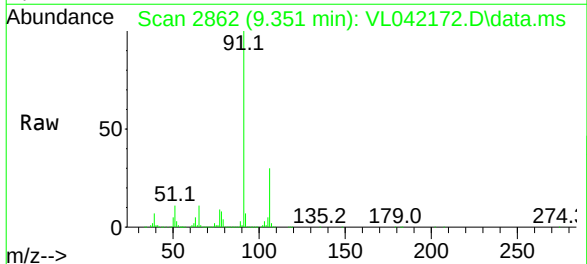
Manual Integrations APPROVED

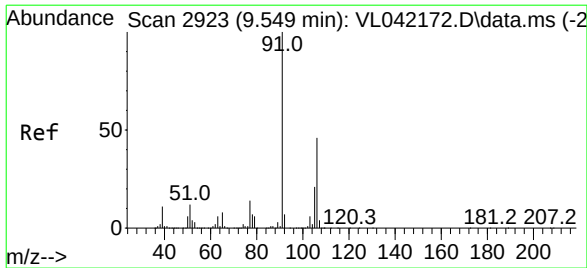
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#58
Ethyl Benzene
Concen: 9.406 ppbv
RT: 9.351 min Scan# 2862
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

Tgt Ion:	91	Resp:	868003
Ion Ratio	Lower	Upper	
91	100		
106	30.2	24.2	36.2





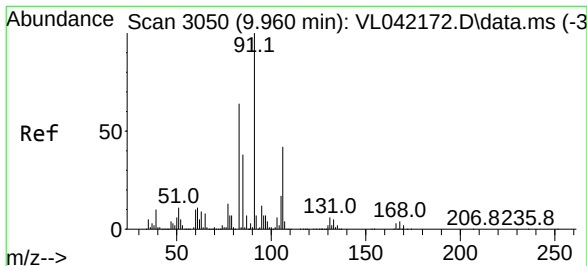
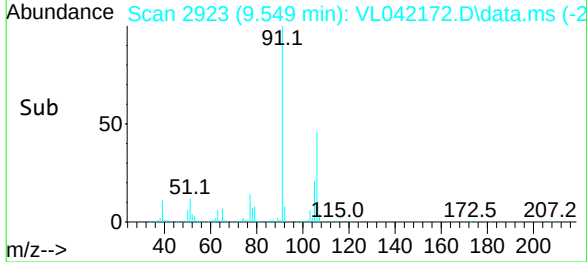
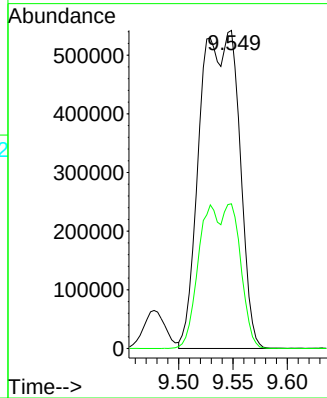
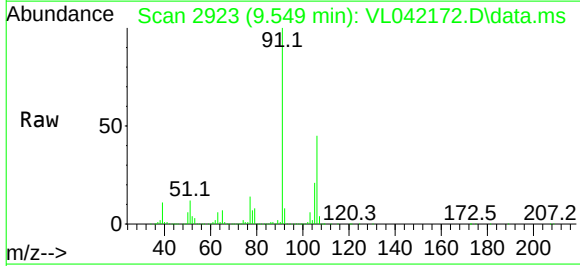
#59
m/p-Xylene
Concen: 18.607 ppbv m
RT: 9.549 min Scan# 2923
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 91 Resp: 1372806
Ion Ratio Lower Upper
91 100
106 45.5 36.4 54.6

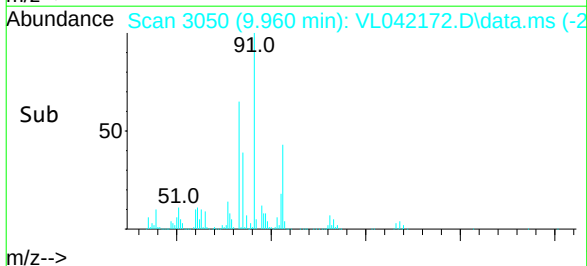
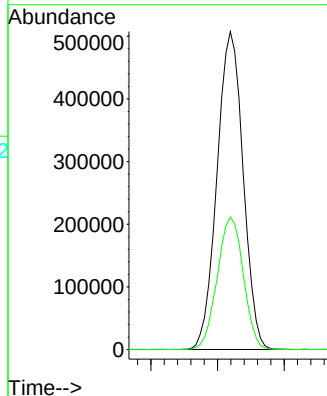
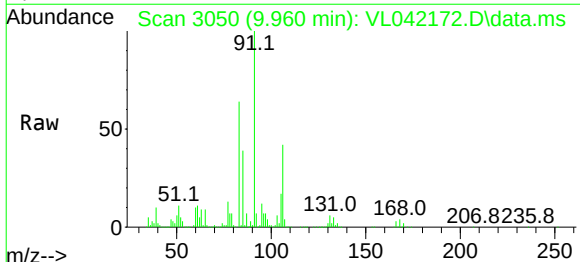
Manual Integrations
APPROVED

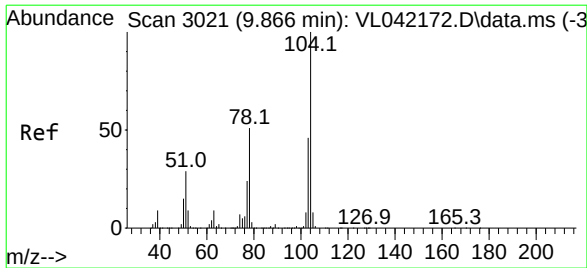
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#60
o-Xylene
Concen: 9.340 ppbv
RT: 9.960 min Scan# 3050
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

Tgt Ion: 91 Resp: 689933
Ion Ratio Lower Upper
91 100
106 41.7 20.8 62.5





#61

Styrene

Concen: 9.706 ppbv

RT: 9.866 min Scan# 3021

Delta R.T. 0.000 min

Lab File: VL042172.D

Acq: 27 Mar 2025 08:26

Instrument :

MSVOA_L

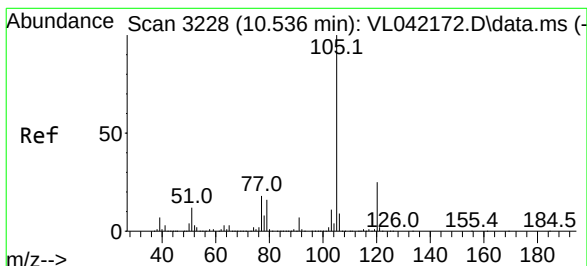
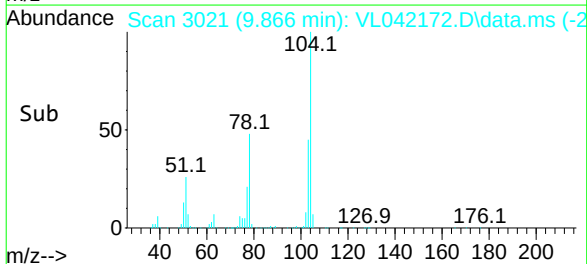
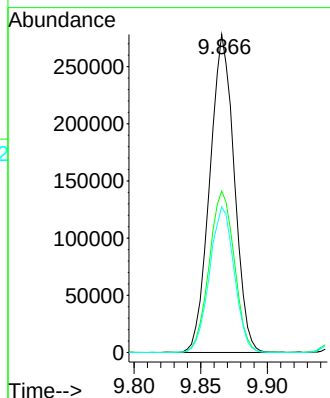
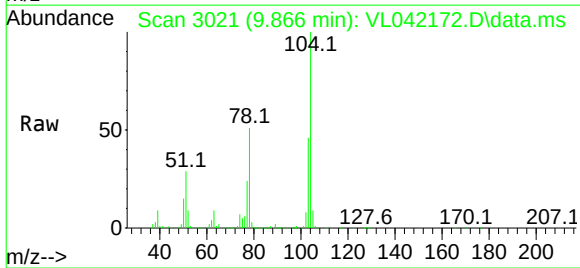
ClientSampleId :

VSTDICCC010

Tgt Ion:	104	Resp:	354697
Ion	Ratio	Lower	Upper
104	100		
78	52.2	41.8	62.6
103	46.2	37.0	55.4

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#62

Isopropylbenzene

Concen: 9.227 ppbv

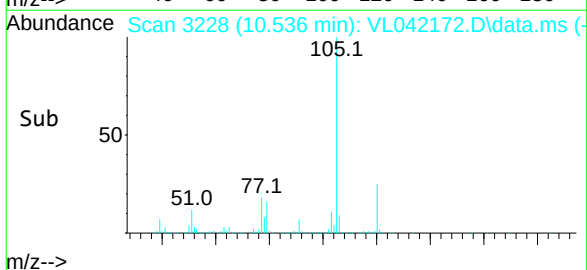
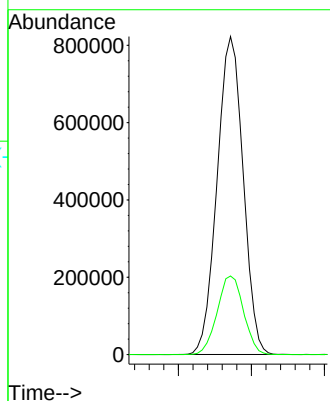
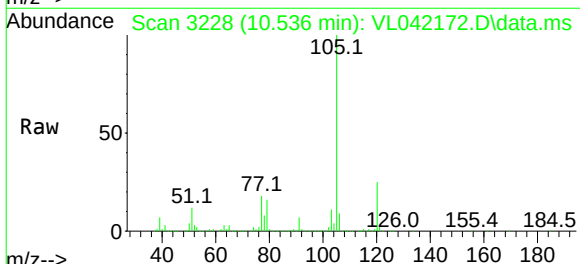
RT: 10.536 min Scan# 3228

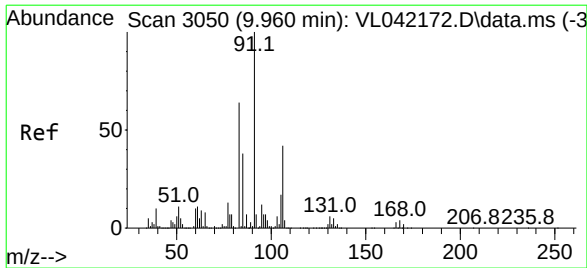
Delta R.T. 0.000 min

Lab File: VL042172.D

Acq: 27 Mar 2025 08:26

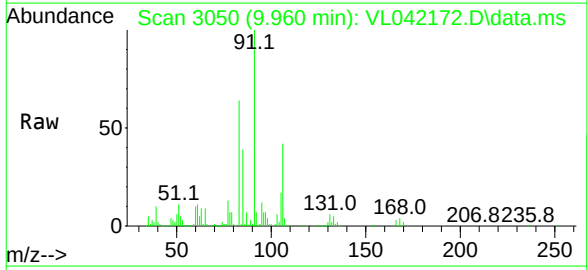
Tgt Ion:	105	Resp:	1019255
Ion	Ratio	Lower	Upper
105	100		
120	24.9	19.9	29.9





#63
1,1,2,2-Tetrachloroethane
Concen: 9.210 ppbv
RT: 9.960 min Scan# 3050
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

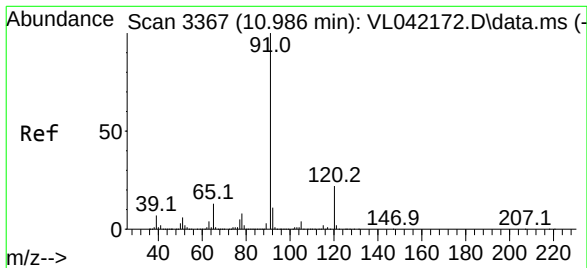
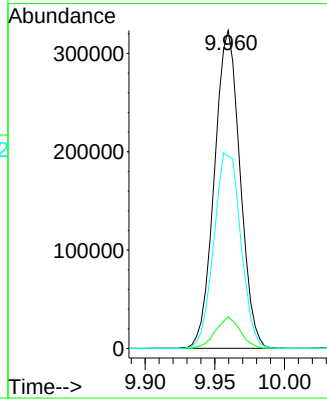
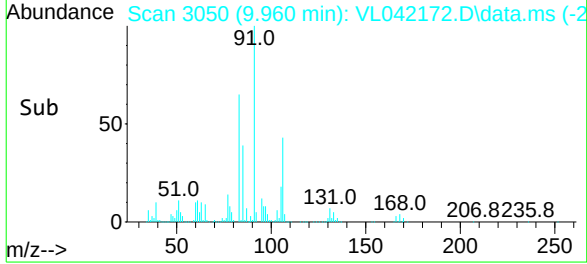
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



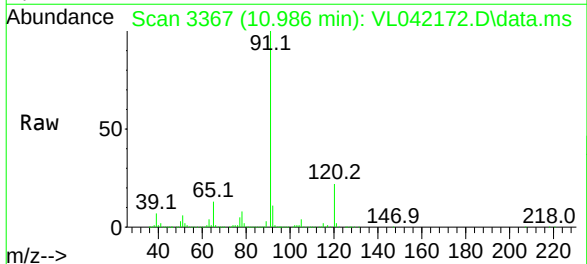
Tgt Ion: 83 Resp: 413392
Ion Ratio Lower Upper
83 100
131 9.6 4.8 14.4
85 65.0 32.5 97.5

Manual Integrations
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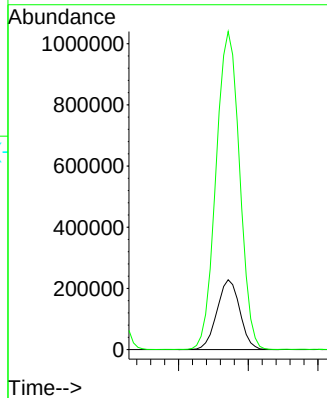
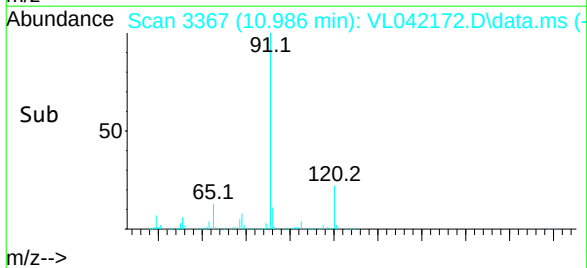
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025

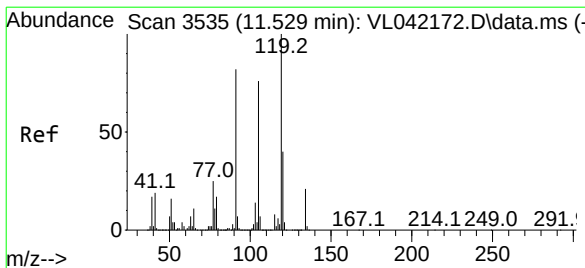


#64
n-propylbenzene
Concen: 9.122 ppbv
RT: 10.986 min Scan# 3367
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26



Tgt Ion:120 Resp: 259405
Ion Ratio Lower Upper
120 100
91 471.1 376.9 565.3





#65

tert-Butylbenzene

Concen: 8.828 ppbv

RT: 11.529 min Scan# 3535

Delta R.T. 0.000 min

Lab File: VL042172.D

Acq: 27 Mar 2025 08:26

Instrument :

MSVOA_L

ClientSampleId :

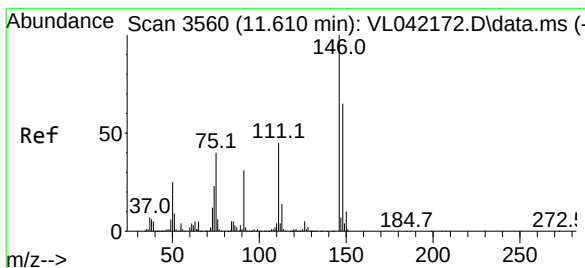
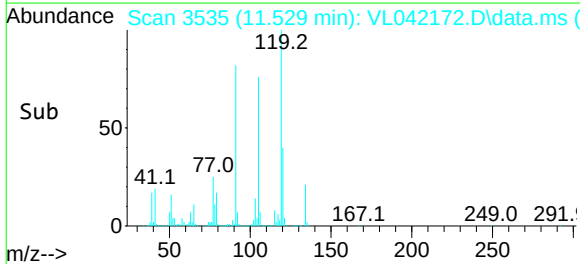
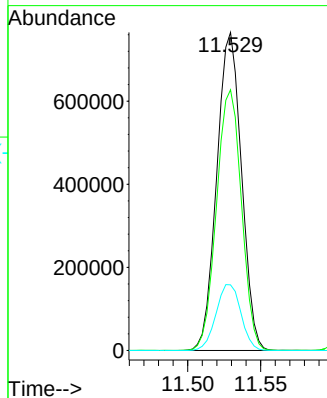
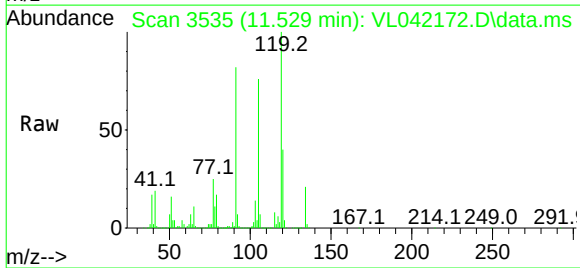
VSTDICCC010

Tgt Ion:	119	Resp:	901951
Ion	Ratio	Lower	Upper
119	100		
91	82.5	66.0	99.0
134	20.9	16.7	25.1

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#66

Benzyl Chloride

Concen: 9.724 ppbv

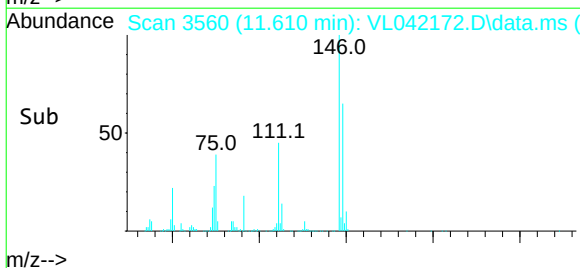
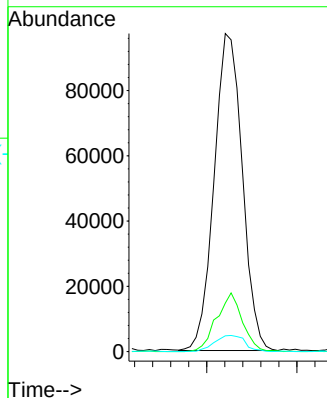
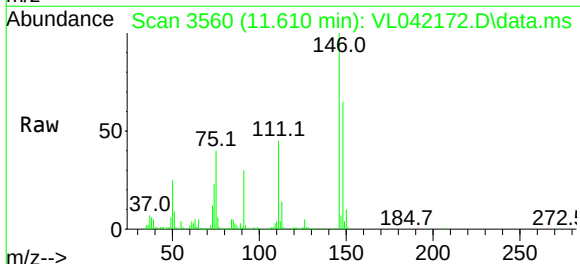
RT: 11.610 min Scan# 3560

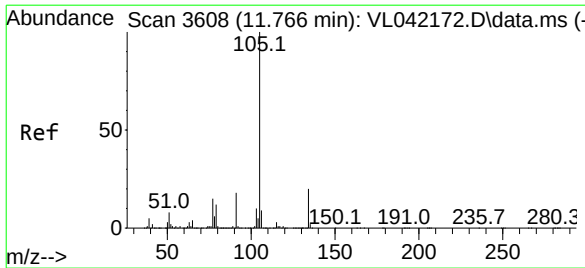
Delta R.T. 0.000 min

Lab File: VL042172.D

Acq: 27 Mar 2025 08:26

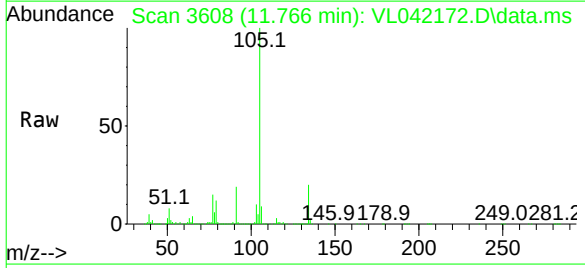
Tgt Ion:	91	Resp:	105411
Ion	Ratio	Lower	Upper
91	100		
126	17.2	13.8	20.6
128	5.6	4.5	6.7





#67
 sec-Butylbenzene
 Concen: 8.796 ppbv
 RT: 11.766 min Scan# 3608
 Delta R.T. 0.000 min
 Lab File: VL042172.D
 Acq: 27 Mar 2025 08:26

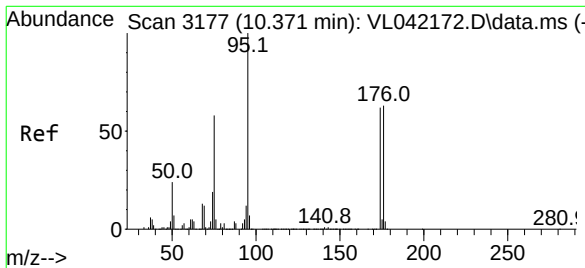
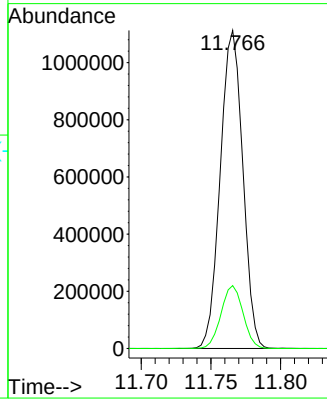
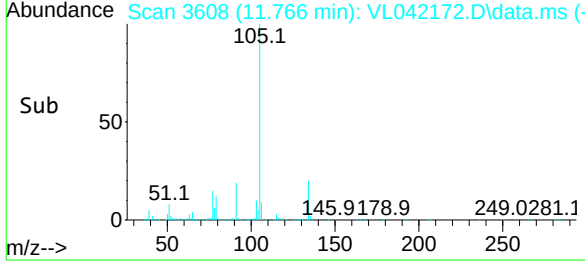
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010



Tgt Ion: 105 Resp: 1249106
 Ion Ratio Lower Upper
 105 100
 134 19.4 15.5 23.3

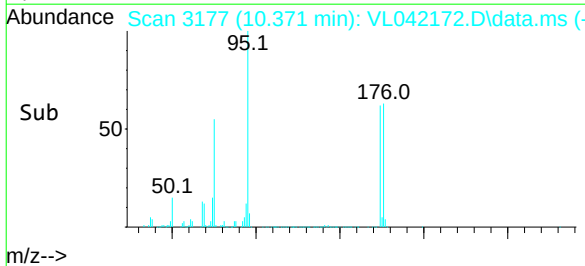
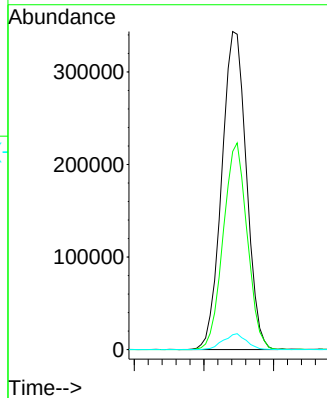
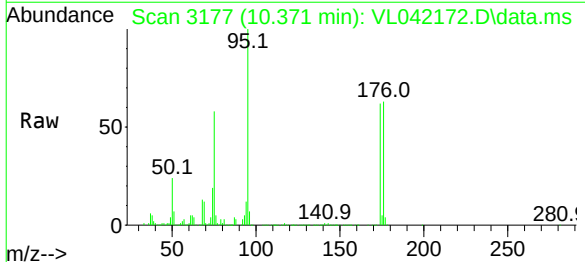
Manual Integrations
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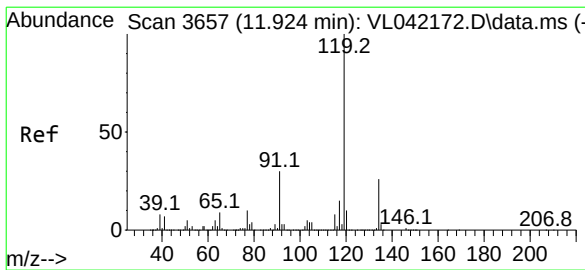
Reviewed By : Semsettin Yesilyurt 03/31/2025
 Supervised By : Mahesh Dadoda 04/03/2025



#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.901 ppbv
 RT: 10.371 min Scan# 3177
 Delta R.T. 0.000 min
 Lab File: VL042172.D
 Acq: 27 Mar 2025 08:26

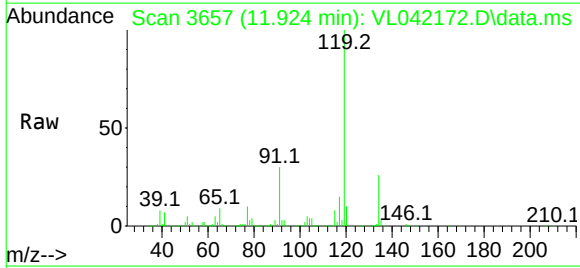
Tgt Ion: 95 Resp: 422410
 Ion Ratio Lower Upper
 95 100
 174 63.3 50.6 76.0
 175 4.7 3.8 5.6





#69
p-Isopropyltoluene
Concen: 8.830 ppbv
RT: 11.924 min Scan# 3657
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

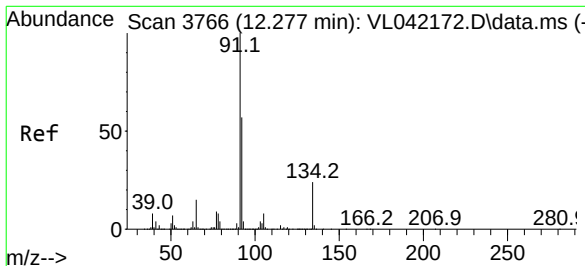
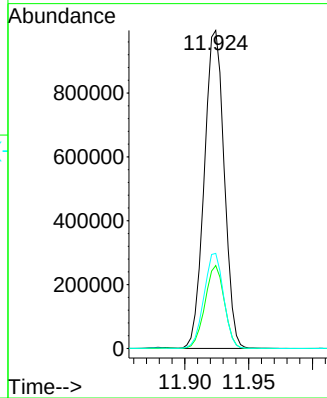
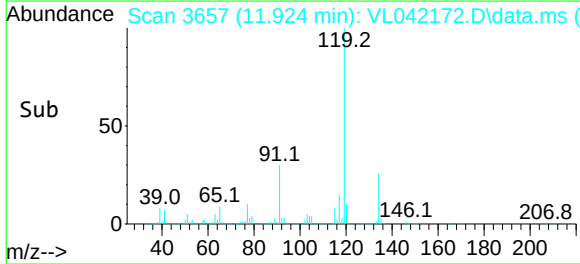
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



Tgt Ion: 119 Resp: 1079675
Ion Ratio Lower Upper
119 100
134 25.5 20.4 30.6
91 29.6 23.7 35.5

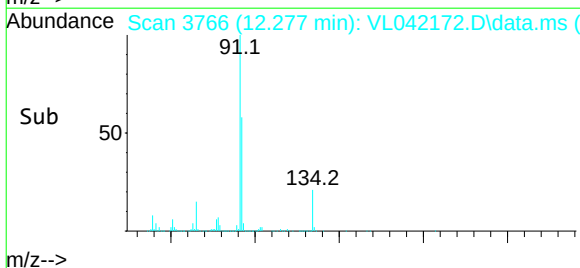
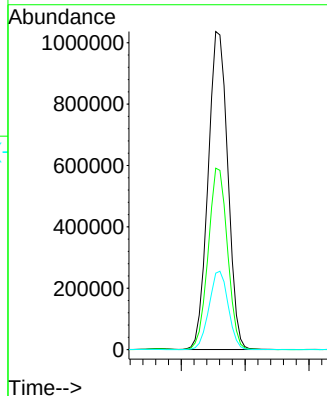
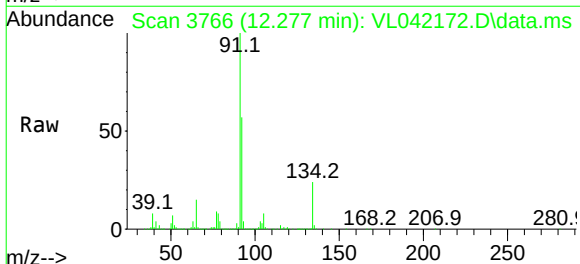
Manual Integrations
APPROVED

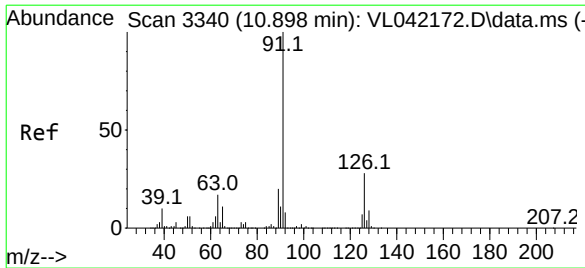
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#70
n-Butylbenzene
Concen: 8.879 ppbv
RT: 12.277 min Scan# 3766
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

Tgt Ion: 91 Resp: 1110351
Ion Ratio Lower Upper
91 100
92 56.1 44.9 67.3
134 24.0 19.2 28.8





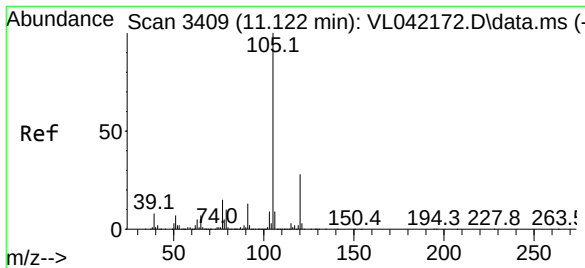
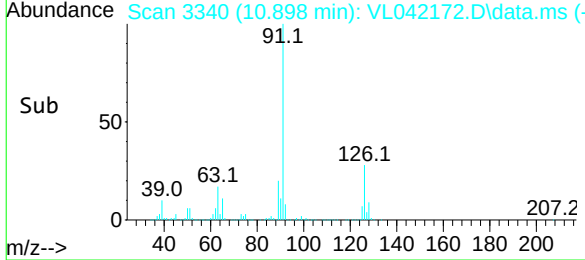
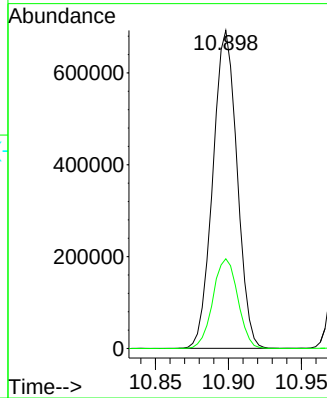
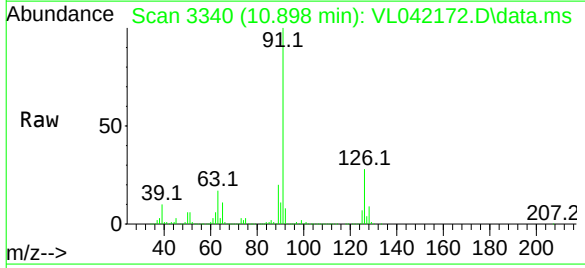
#71
2-Chlorotoluene
Concen: 9.320 ppbv
RT: 10.898 min Scan# 3340
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 91 Resp: 799102
Ion Ratio Lower Upper
91 100
126 29.0 11.6 46.4

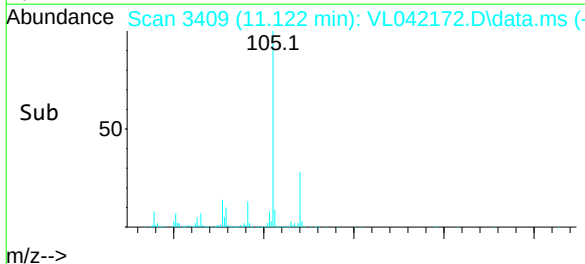
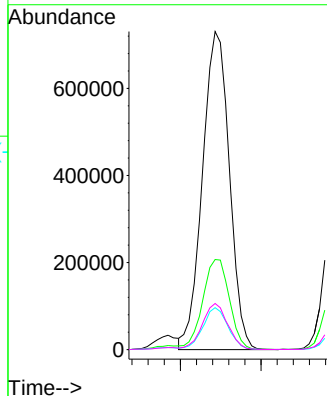
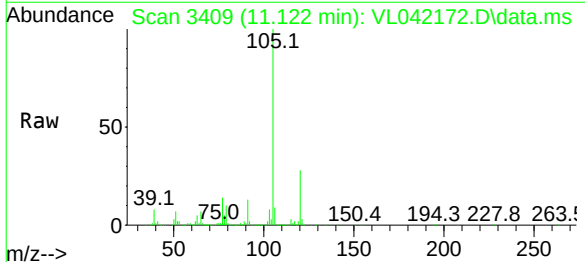
Manual Integrations
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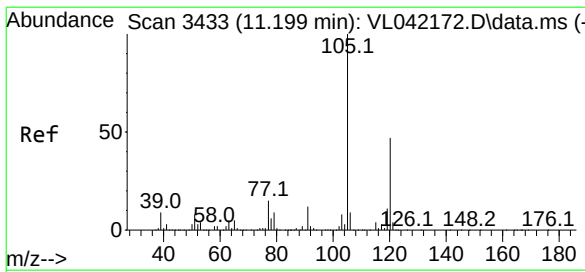
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#72
4-Ethyltoluene
Concen: 9.200 ppbv
RT: 11.122 min Scan# 3409
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

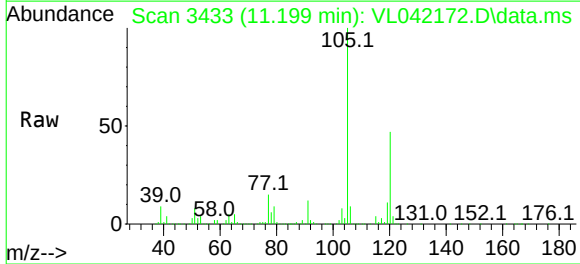
Tgt Ion:105 Resp: 846232
Ion Ratio Lower Upper
105 100
120 29.2 23.4 35.0
91 12.9 10.3 15.5
77 14.3 11.4 17.2





#73
1,3,5-Trimethylbenzene
Concen: 8.970 ppbv
RT: 11.199 min Scan# 3433
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

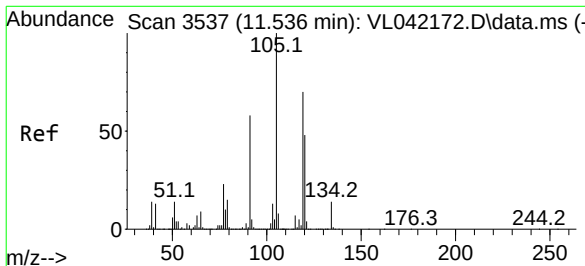
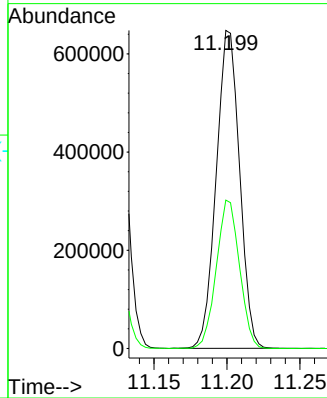
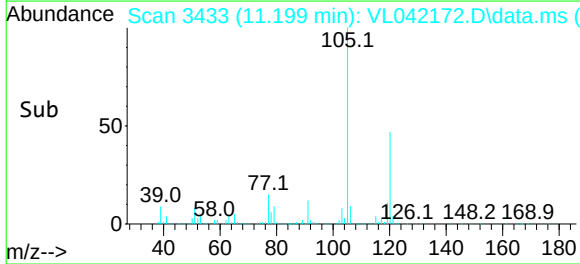
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



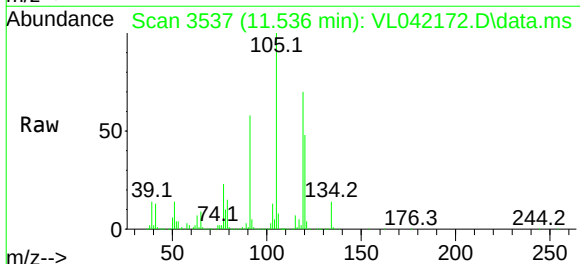
Tgt Ion:105 Resp: 720566
Ion Ratio Lower Upper
105 100
120 46.7 37.4 56.0

Manual Integrations
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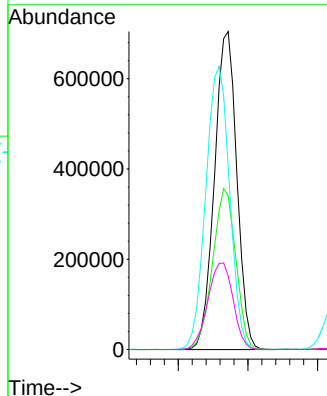
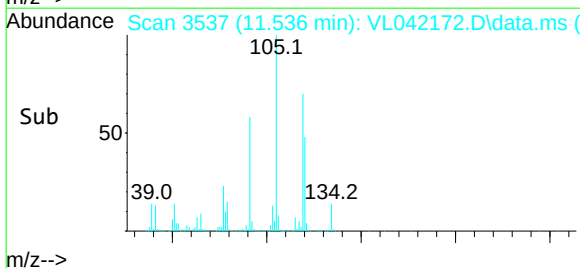
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025

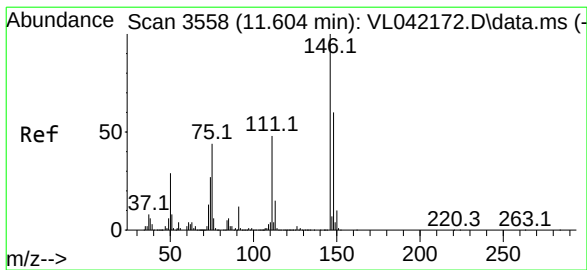


#74
1,2,4-Trimethylbenzene
Concen: 8.480 ppbv
RT: 11.536 min Scan# 3537
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26



Tgt Ion:105 Resp: 784745
Ion Ratio Lower Upper
105 100
120 48.3 38.6 58.0
91 57.7 46.2 69.2
77 23.2 18.6 27.8





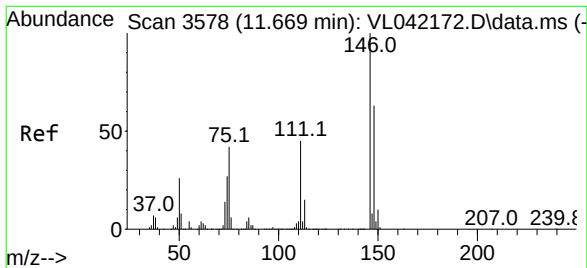
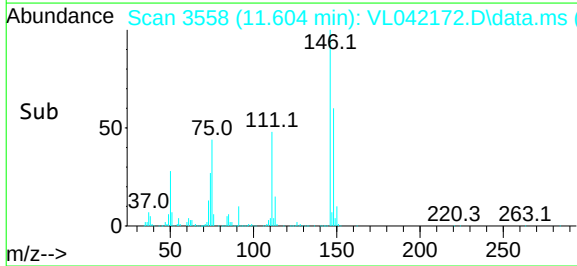
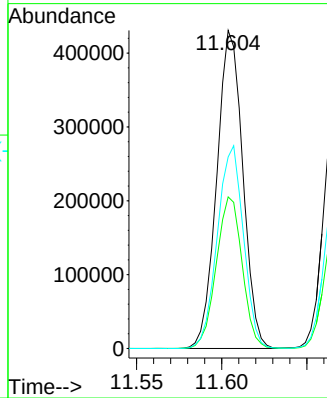
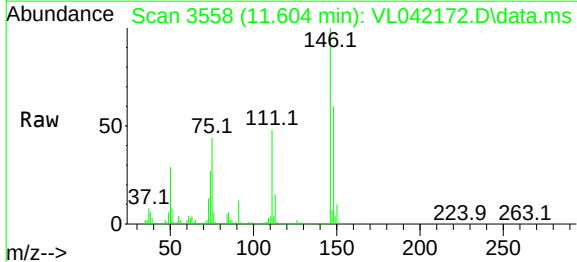
#75
1,3-Dichlorobenzene
Concen: 9.028 ppbv
RT: 11.604 min Scan# 3558
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion:	146	Resp:	458226
Ion	Ratio	Lower	Upper
146	100		
111	47.5	23.8	71.2
148	63.9	31.9	95.9

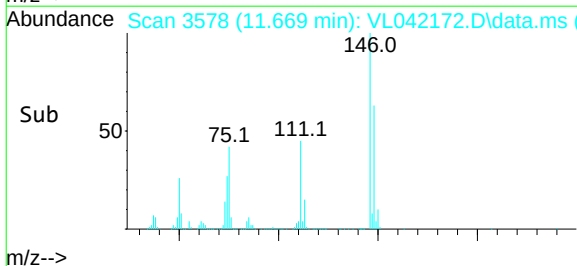
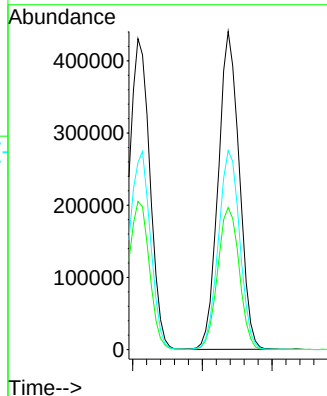
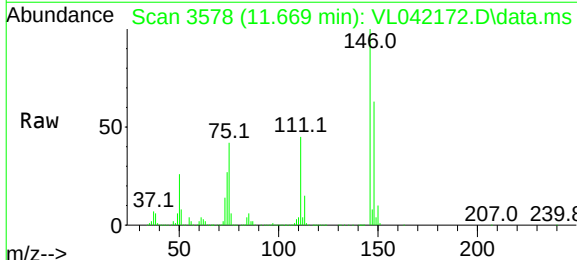
Manual Integrations
APPROVED

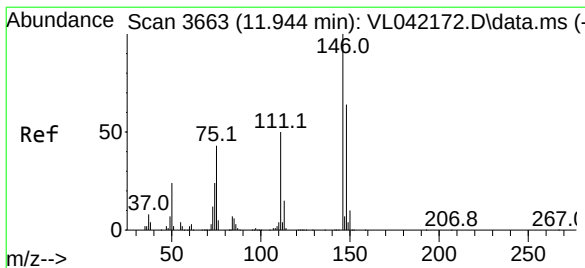
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#76
1,4-Dichlorobenzene
Concen: 9.134 ppbv
RT: 11.669 min Scan# 3578
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

Tgt Ion:	146	Resp:	461371
Ion	Ratio	Lower	Upper
146	100		
111	46.0	23.0	69.0
148	63.8	31.9	95.7





#77

1,2-Dichlorobenzene

Concen: 8.933 ppbv

RT: 11.944 min Scan# 3663

Delta R.T. 0.000 min

Lab File: VL042172.D

Acq: 27 Mar 2025 08:26

Instrument :

MSVOA_L

ClientSampleId :

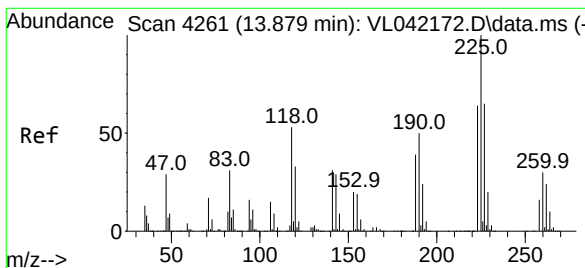
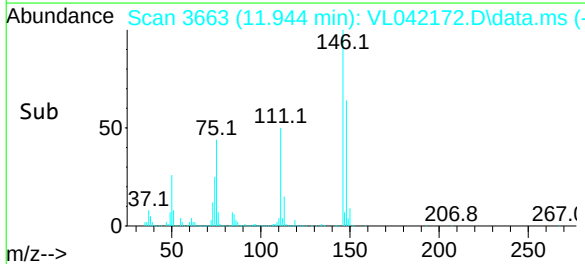
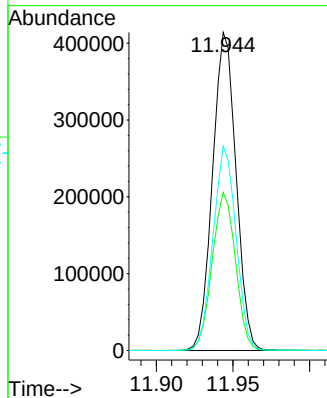
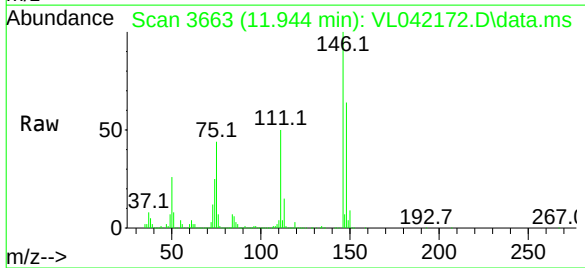
VSTDICCC010

Tgt Ion:	146	Resp:	441473
Ion Ratio	Lower	Upper	
146	100		
111	49.5	24.8	74.3
148	63.2	31.6	94.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#78

Hexachloro-1,3-Butadiene

Concen: 8.284 ppbv

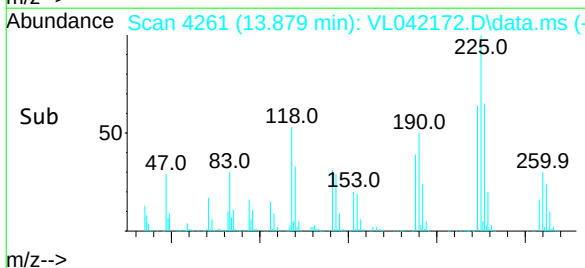
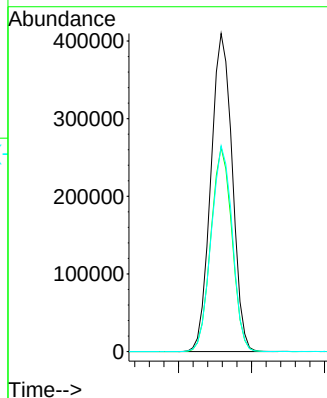
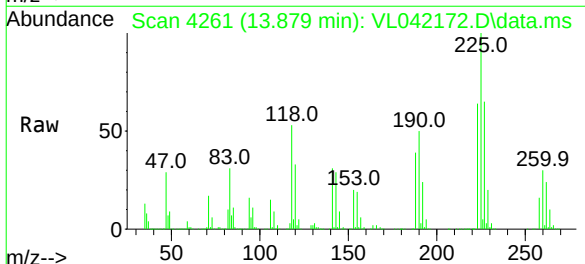
RT: 13.879 min Scan# 4261

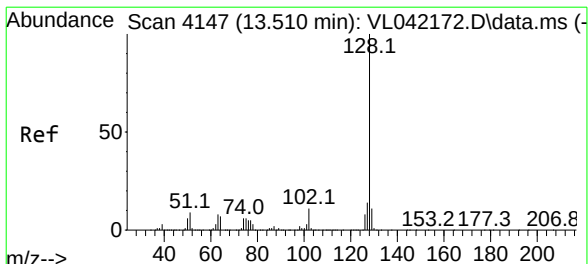
Delta R.T. 0.000 min

Lab File: VL042172.D

Acq: 27 Mar 2025 08:26

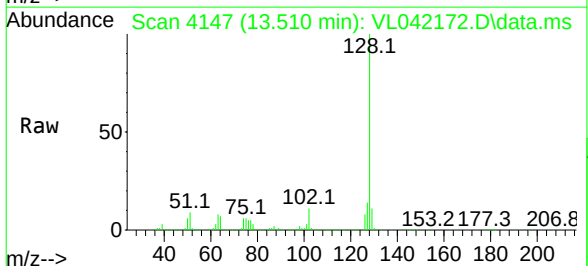
Tgt Ion:	225	Resp:	416735
Ion Ratio	Lower	Upper	
225	100		
223	63.3	50.6	76.0
227	64.0	51.2	76.8





#79
Naphthalene
Concen: 9.271 ppbv
RT: 13.510 min Scan# 4147
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

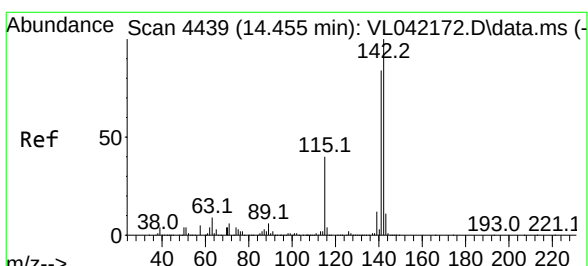
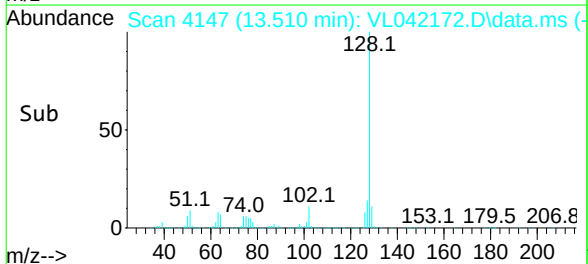
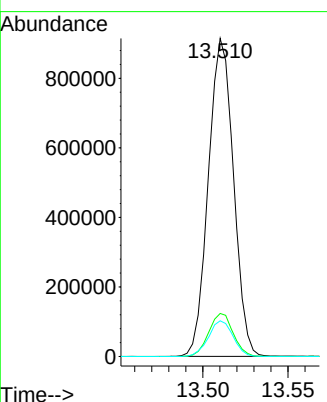
Instrument : MSVOA_L
ClientSampleId : VSTDICCC010



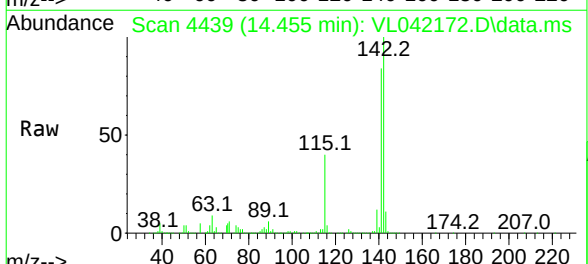
Tgt Ion: 128 Resp: 938476

Ion	Ratio	Lower	Upper
128	100		
127	13.5	10.8	16.2
129	11.2	9.0	13.4

Manual Integrations
APPROVED
Reviewed By : Semsettin Yesilyurt 03/31/2025
Supervised By : Mahesh Dadoda 04/03/2025

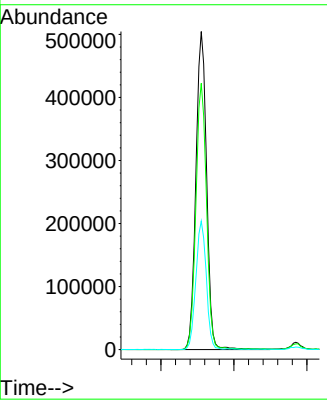
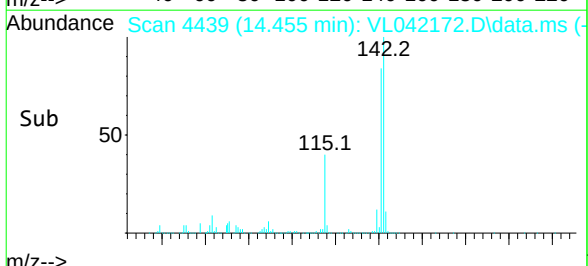


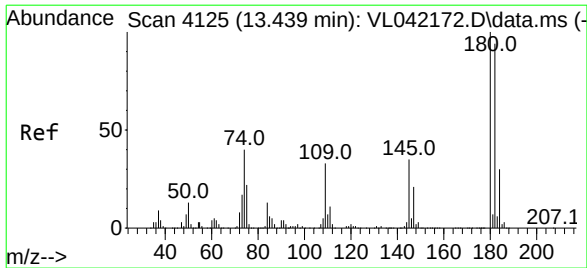
#80
Naphthalene, 2-methyl-
Concen: 10.436 ppbv
RT: 14.455 min Scan# 4439
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26



Tgt Ion: 142 Resp: 514394

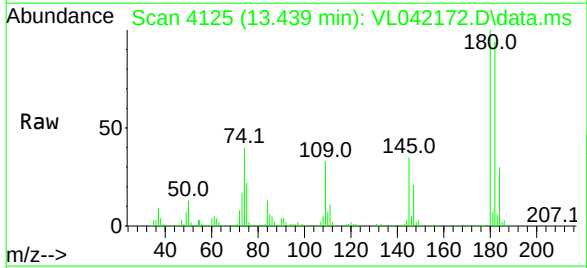
Ion	Ratio	Lower	Upper
142	100		
141	82.9	66.3	99.5
115	39.5	31.6	47.4





#81
1,2,4-Trichlorobenzene
Concen: 9.561 ppbv
RT: 13.439 min Scan# 41
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

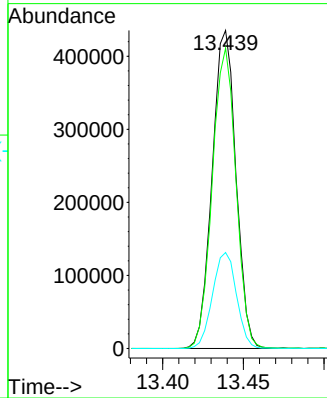
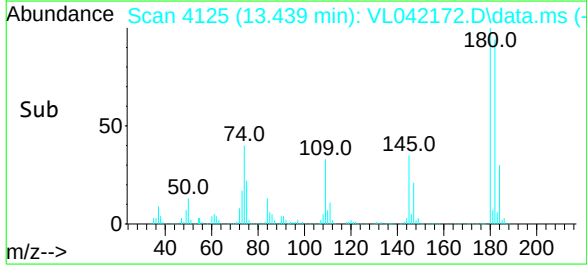
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



Tgt Ion:180 Resp: 446420
Ion Ratio Lower Upper
180 100
182 93.9 75.1 112.7
184 30.5 24.4 36.6

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
 Data File : VL042173.D
 Acq On : 27 Mar 2025 08:59
 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 03/31/2025
 Supervised By : Mahesh Dadoda 04/03/2025

Quant Time: Mar 28 01:32:52 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M

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

QLast Update : Fri Mar 28 01:31:23 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.784	49	188395	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.952	114	546394	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.875	117	504538	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.370 95 417532 10.077 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 100.800%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.496	85	55859	2.008	ppbv	99
3) Chlorodifluoromethane	1.473	51	57045	2.007	ppbv	99
4) Chloromethane	1.531	50	23293	2.049	ppbv	94
5) Vinyl Chloride	1.576	62	21989	1.897	ppbv	99
6) Bromomethane	1.664	94	10027	1.946	ppbv	98
7) Chloroethane	1.703	64	8413	1.844	ppbv	92
8) Dichlorotetrafluoroethane	1.551	85	48008	2.027	ppbv	98
9) Propene	1.483	41	26295	2.054	ppbv	94
10) Heptane	4.972	43	71466	2.063	ppbv	99
11) Trichlorofluoromethane	1.874	101	55754	2.060	ppbv	99
12) 1,1,2-Trichlorotrifluo...	2.136	101	44761	2.012	ppbv	98
13) Ethanol	1.719	45	2748m	2.741	ppbv	
14) Bromoethene	1.780	108	17323	2.033	ppbv #	89
15) Acetone	1.832	43	55365	2.101	ppbv	95
16) 1,3-Butadiene	1.606	39	22894	1.932	ppbv	95
17) tert-Butyl alcohol	2.039	59	66174	2.016	ppbv	100
18) 1,1-Dichloroethene	2.030	96	21103	2.029	ppbv	95
19) Isopropyl Alcohol	1.884	45	27804	1.870	ppbv #	35
20) Methylene Chloride	2.059	84	20518	2.091	ppbv	96
21) Allyl Chloride	2.094	41	38425	2.068	ppbv	99
22) trans-1,2-Dichloroethene	2.337	96	23384	1.924	ppbv	92
23) Vinyl Acetate	2.460	43	20736	1.894	ppbv #	97
24) 1,1-Dichloroethane	2.405	63	44740	2.008	ppbv	99
25) Ethyl Acetate	2.832	43	139516	2.040	ppbv	99
26) Hexane	2.823	57	52095	1.972	ppbv	92
27) Carbon Disulfide	2.146	76	57969	2.047	ppbv #	76
28) Methyl tert-Butyl Ether	2.437	73	33703	2.049	ppbv	99
29) Chloroform	2.845	83	78043	2.019	ppbv	95
30) Cyclohexane	3.852	84	45641	1.989	ppbv	99
31) cis-1,2-Dichloroethene	2.719	61	53713	2.003	ppbv	96
32) 1,1,1-Trichloroethane	3.363	97	81070	1.833	ppbv	99
34) 2-Butanone	2.554	43	84157	2.124	ppbv	99
35) Carbon Tetrachloride	3.758	117	81735	1.944	ppbv	96
36) Benzene	3.651	78	110727	2.044	ppbv	97
37) 1,2-Dichloroethane	3.214	62	61476	1.982	ppbv	97
38) Trichloroethene	4.541	130	43501	1.924	ppbv	97
39) 1,2-Dichloropropane	4.308	63	39912	2.023	ppbv	93
40) 1,4-Dioxane	4.587	88	20884m	2.040	ppbv	
41) Tetrahydrofuran	3.056	42	47262	2.097	ppbv	99
42) Bromodichloromethane	4.483	83	87640	2.050	ppbv	99
43) Methyl Methacrylate	4.878	69	44624	1.952	ppbv	97
44) 2,2,4-Trimethylpentane	4.632	57	188282	2.057	ppbv	100
45) t-1,3-Dichloropropene	6.406	75	49461	2.011	ppbv	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
 Data File : VL042173.D
 Acq On : 27 Mar 2025 08:59
 Operator : SY/MD
 Sample : VSTDIC002
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 03/31/2025
 Supervised By : Mahesh Dadoda 04/03/2025

Quant Time: Mar 28 01:32:52 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M

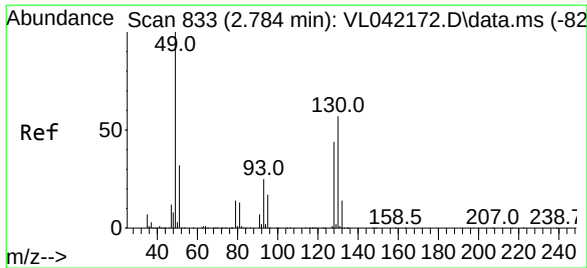
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2

QLast Update : Fri Mar 28 01:31:23 2025

Response via : Initial Calibration

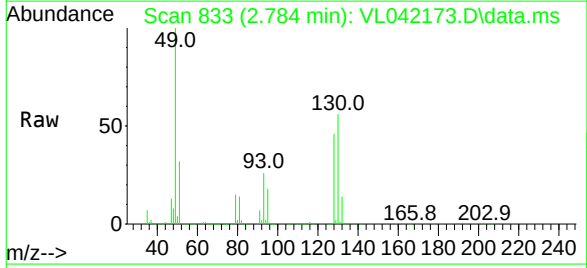
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
46) cis-1,3-Dichloropropene	5.593	75	61829	2.050	ppbv	#	91
47) 1,1,2-Trichloroethane	6.577	97	41387	1.985	ppbv		95
48) Dibromochloromethane	7.383	129	72441	2.050	ppbv		100
49) Bromoform	9.477	173	65221	2.056	ppbv		98
50) 4-Methyl-2-Pentanone	5.752	43	132328	2.107	ppbv		99
51) 2-Hexanone	7.435	43	112681	2.162	ppbv	#	99
52) Tetrachloroethene	8.221	164	40558	1.888	ppbv		98
53) Toluene	6.923	91	131314	2.045	ppbv		99
54) 1,2-Dibromoethane	7.648	107	56799	1.952	ppbv		90
56) 1,1,1,2-Tetrachloroethane	8.920	131	58141	2.093	ppbv		97
57) Chlorobenzene	8.914	112	100308	2.096	ppbv	#	94
58) Ethyl Benzene	9.351	91	191114	2.132	ppbv		96
59) m/p-Xylene	9.548	91	299531m	4.181	ppbv		
60) o-Xylene	9.959	91	151292	2.109	ppbv		98
61) Styrene	9.865	104	74134	2.089	ppbv		98
62) Isopropylbenzene	10.535	105	228191	2.127	ppbv		99
63) 1,1,2,2-Tetrachloroethane	9.956	83	90114	2.067	ppbv		99
64) n-propylbenzene	10.985	120	58105	2.104	ppbv		92
65) tert-Butylbenzene	11.529	119	216336	2.180	ppbv		99
66) Benzyl Chloride	11.610	91	22272	2.116	ppbv		95
67) sec-Butylbenzene	11.762	105	297381	2.156	ppbv		99
69) p-Isopropyltoluene	11.921	119	258357	2.176	ppbv		100
70) n-Butylbenzene	12.277	91	270616	2.228	ppbv		99
71) 2-Chlorotoluene	10.898	91	177487	2.132	ppbv		100
72) 4-Ethyltoluene	11.121	105	194660	2.179	ppbv		99
73) 1,3,5-Trimethylbenzene	11.199	105	169221	2.169	ppbv		96
74) 1,2,4-Trimethylbenzene	11.532	105	198351	2.207	ppbv		96
75) 1,3-Dichlorobenzene	11.604	146	107217	2.175	ppbv		97
76) 1,4-Dichlorobenzene	11.668	146	104925	2.139	ppbv		99
77) 1,2-Dichlorobenzene	11.943	146	102310	2.132	ppbv		99
78) Hexachloro-1,3-Butadiene	13.879	225	109539	2.242	ppbv		99
79) Naphthalene	13.510	128	233451	2.375	ppbv		97
80) Naphthalene,2-methyl-	14.455	142	117313	2.451	ppbv		99
81) 1,2,4-Trichlorobenzene	13.435	180	103765	2.288	ppbv		97

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



#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 833
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

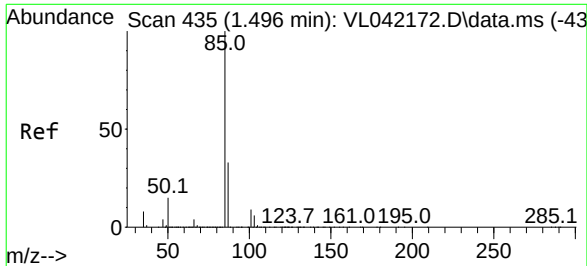
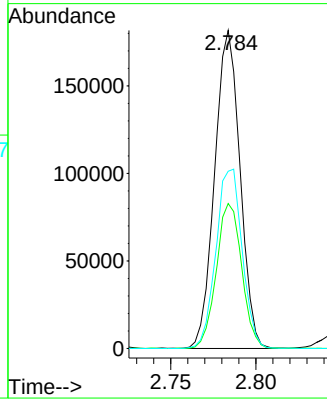
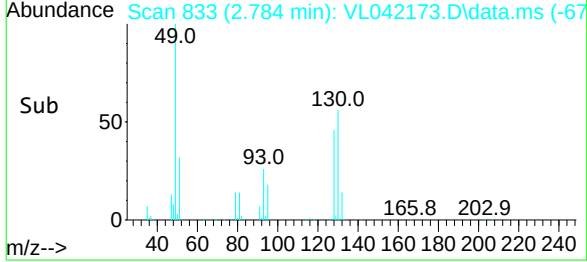
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002



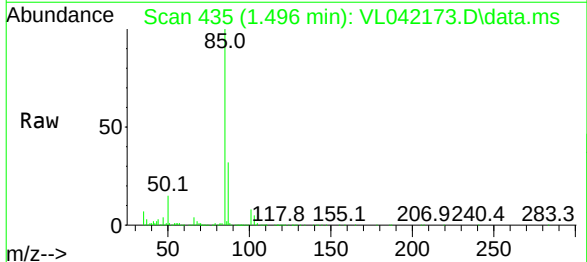
Tgt Ion: 49 Resp: 188395
Ion Ratio Lower Upper
49 100
128 45.7 22.9 68.5
130 58.5 28.8 86.4

Manual Integrations
APPROVED

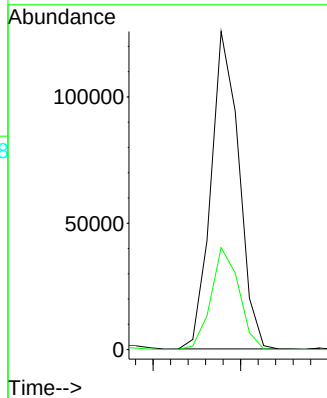
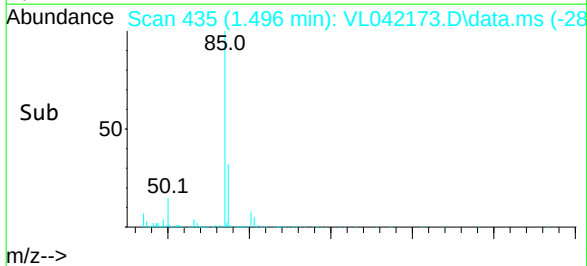
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025

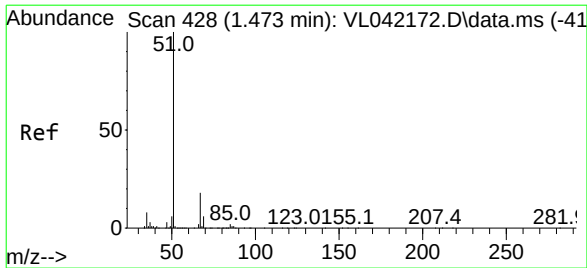


#2
Dichlorodifluoromethane
Concen: 2.008 ppbv
RT: 1.496 min Scan# 435
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59



Tgt Ion: 85 Resp: 55859
Ion Ratio Lower Upper
85 100
87 32.1 26.1 39.1





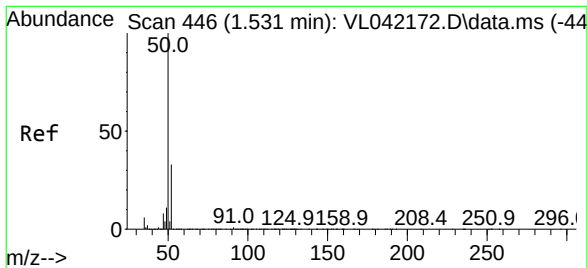
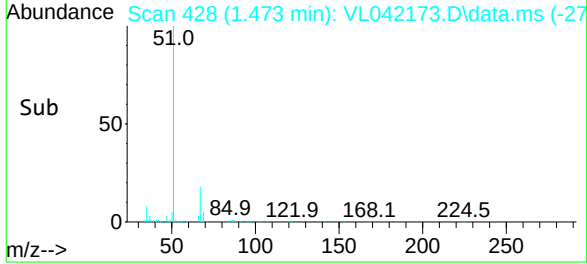
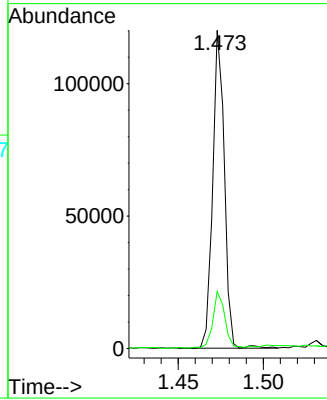
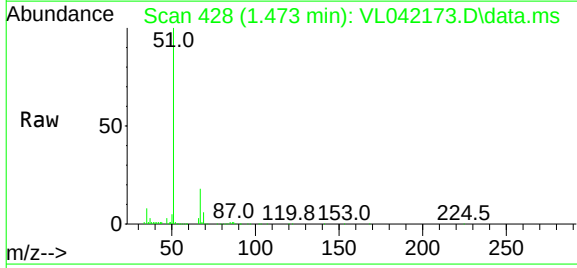
#3
Chlorodifluoromethane
Concen: 2.007 ppbv
RT: 1.473 min Scan# 428
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion: 51 Resp: 57045
Ion Ratio Lower Upper
51 100
67 19.4 15.0 22.6

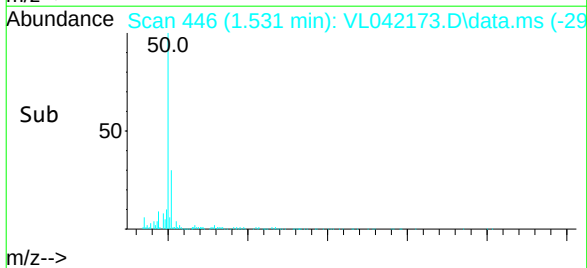
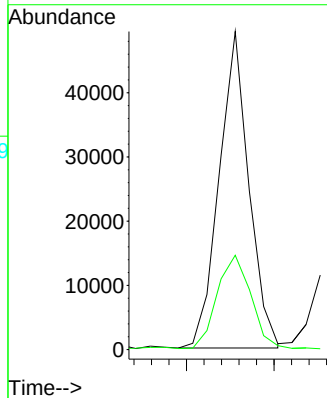
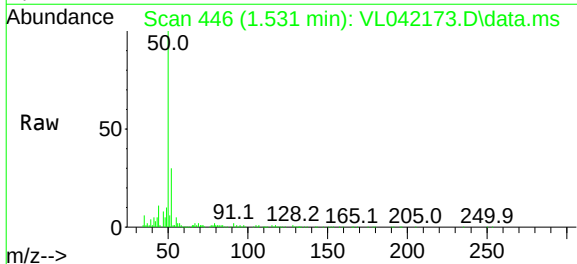
Manual Integrations
APPROVED

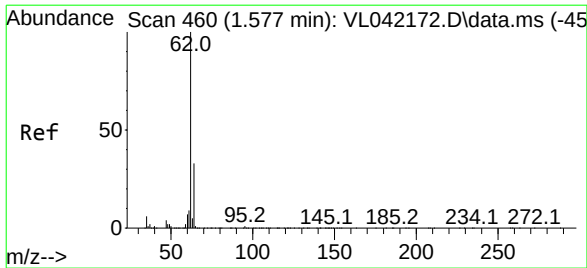
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#4
Chloromethane
Concen: 2.049 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

Tgt Ion: 50 Resp: 23293
Ion Ratio Lower Upper
50 100
52 29.5 26.1 39.1





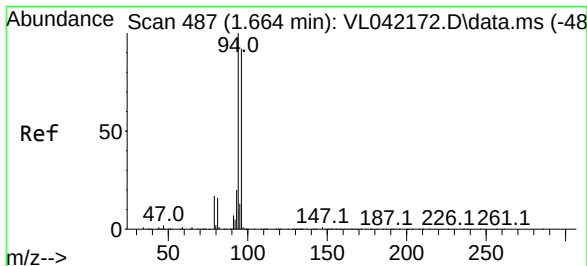
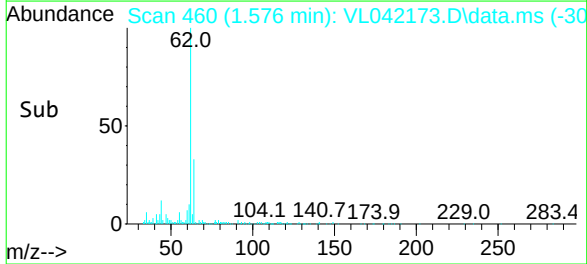
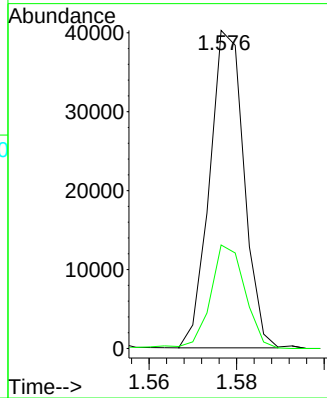
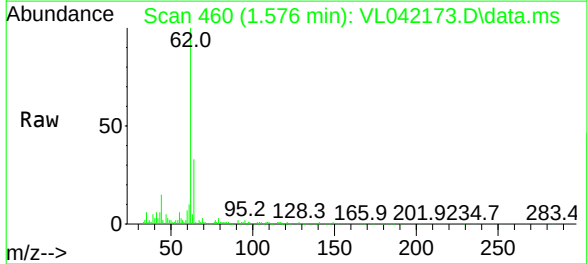
#5
 Vinyl Chloride
 Concen: 1.897 ppbv
 RT: 1.576 min Scan# 460
 Delta R.T. -0.000 min
 Lab File: VL042173.D
 Acq: 27 Mar 2025 08:59

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC002

Tgt Ion: 62 Resp: 21989
 Ion Ratio Lower Upper
 62 100
 64 32.5 26.6 40.0

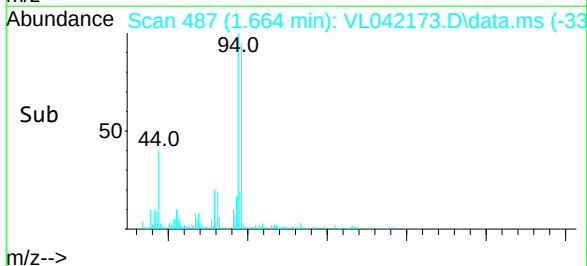
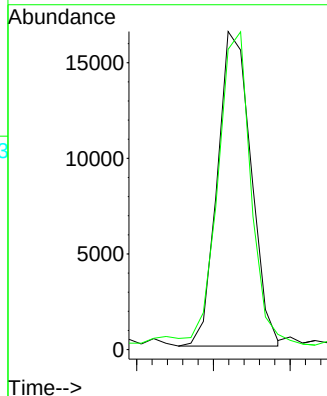
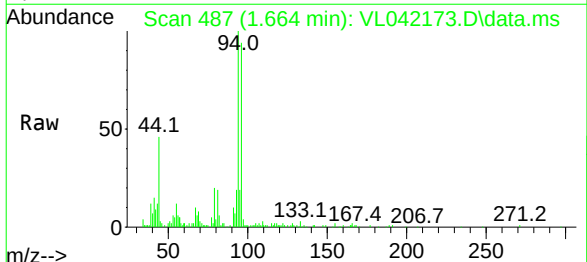
Manual Integrations
 APPROVED

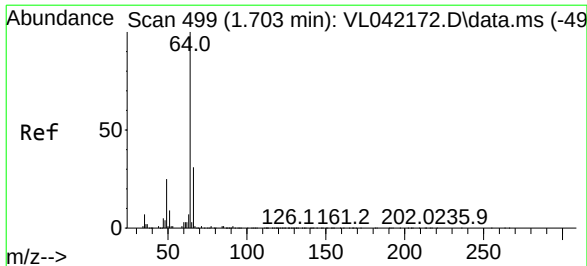
Reviewed By :Semsettin Yesilyurt 03/31/2025
 Supervised By :Mahesh Dadoda 04/03/2025



#6
 Bromomethane
 Concen: 1.946 ppbv
 RT: 1.664 min Scan# 487
 Delta R.T. -0.000 min
 Lab File: VL042173.D
 Acq: 27 Mar 2025 08:59

Tgt Ion: 94 Resp: 10027
 Ion Ratio Lower Upper
 94 100
 96 93.6 73.1 109.7





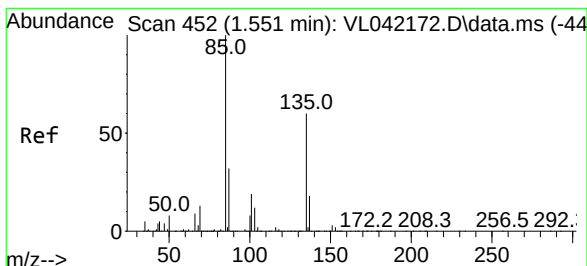
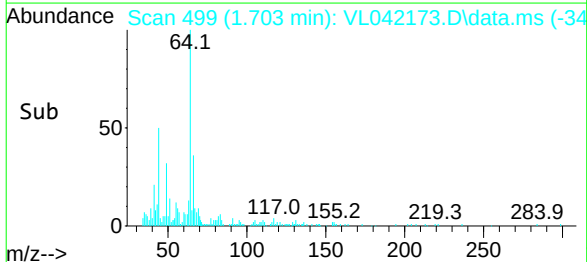
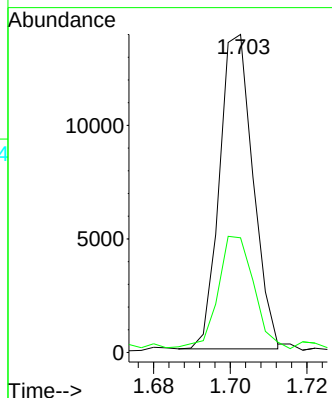
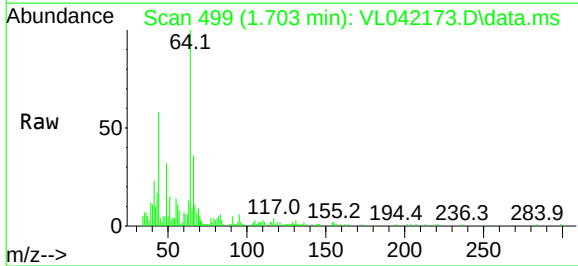
#7
Chloroethane
Concen: 1.844 ppbv
RT: 1.703 min Scan# 499
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tgt Ion: 64 Resp: 8413
Ion Ratio Lower Upper
64 100
66 36.1 25.2 37.8

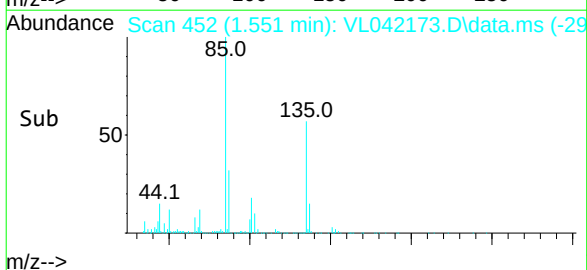
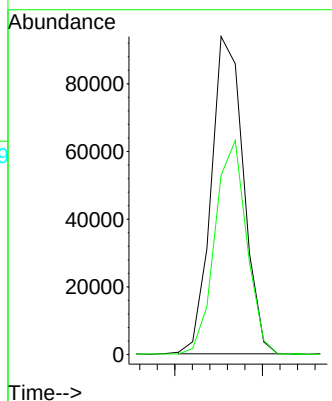
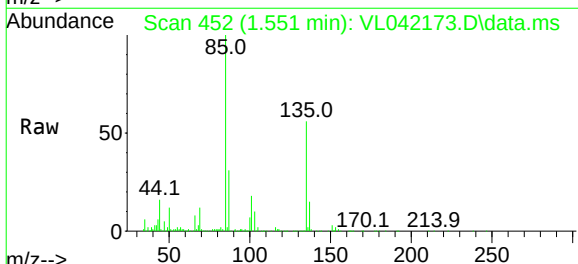
Manual Integrations
APPROVED

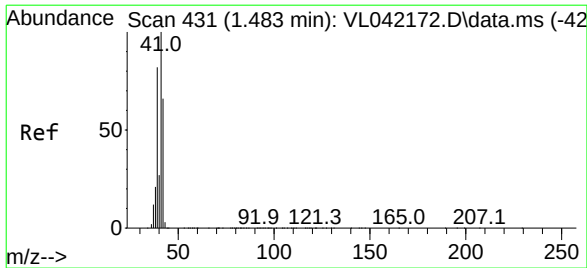
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#8
Dichlorotetrafluoroethane
Concen: 2.027 ppbv
RT: 1.551 min Scan# 452
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

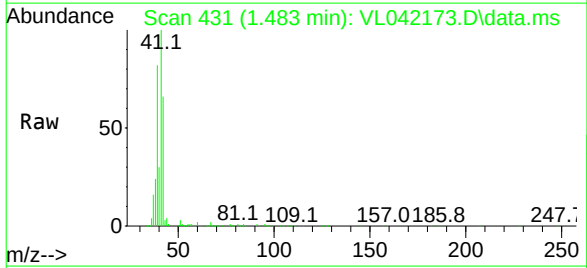
Tgt Ion: 85 Resp: 48008
Ion Ratio Lower Upper
85 100
135 66.8 52.4 78.6





#9
Propene
Concen: 2.054 ppbv
RT: 1.483 min Scan# 431
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

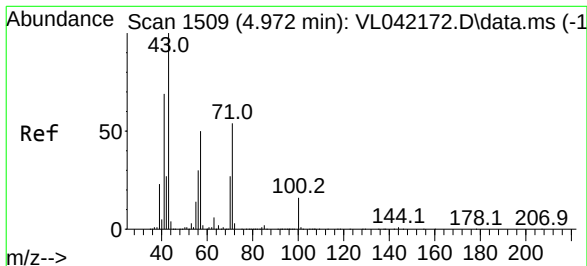
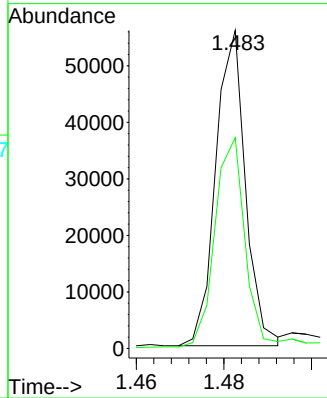
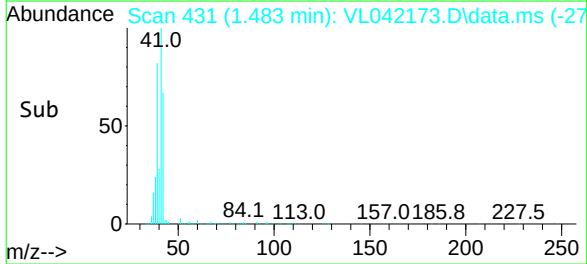
Instrument : MSVOA_L
ClientSampleId : VSTDIC002



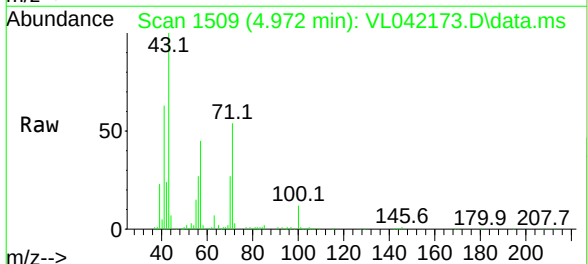
Tgt Ion: 41 Resp: 26295
Ion Ratio Lower Upper
41 100
42 73.9 55.4 83.2

Manual Integrations
APPROVED

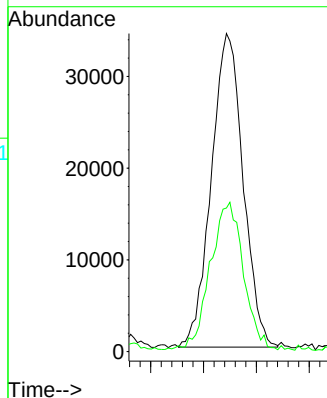
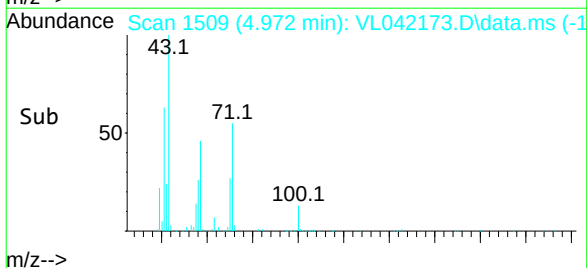
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025

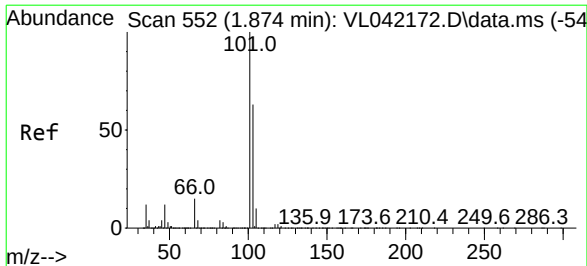


#10
Heptane
Concen: 2.063 ppbv
RT: 4.972 min Scan# 1509
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59



Tgt Ion: 43 Resp: 71466
Ion Ratio Lower Upper
43 100
57 49.6 39.4 59.2





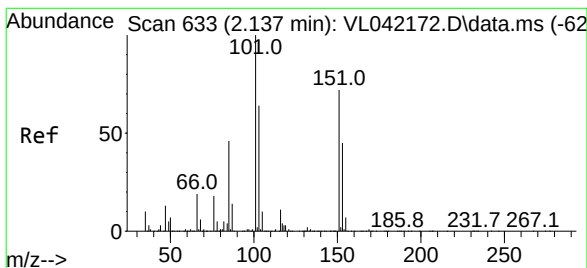
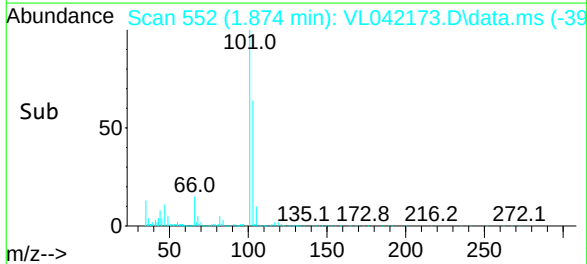
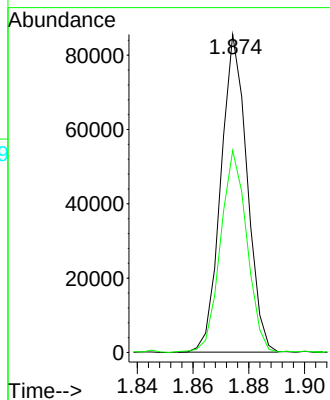
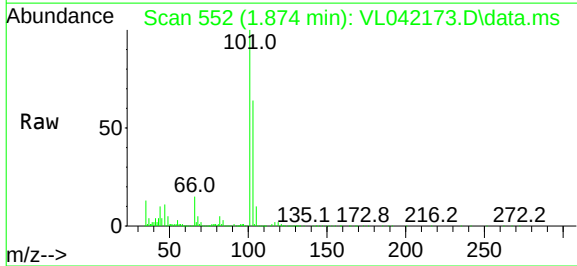
#11
Trichlorofluoromethane
Concen: 2.060 ppbv
RT: 1.874 min Scan# 552
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion:101 Resp: 55754
Ion Ratio Lower Upper
101 100
103 63.5 50.2 75.2

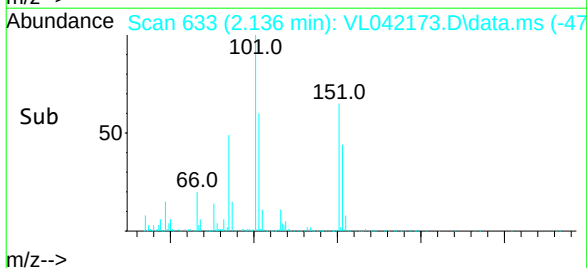
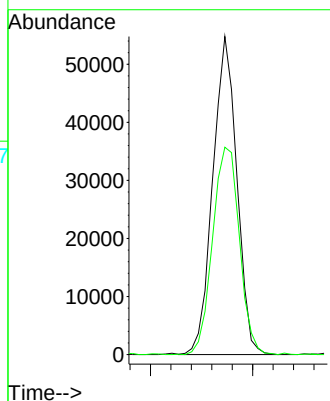
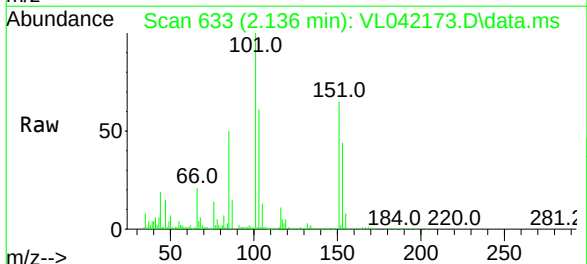
Manual Integrations
APPROVED

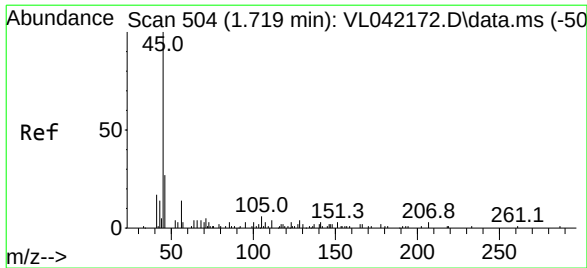
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#12
1,1,2-Trichlorotrifluoroethane
Concen: 2.012 ppbv
RT: 2.136 min Scan# 633
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

Tgt Ion:101 Resp: 44761
Ion Ratio Lower Upper
101 100
151 73.0 57.1 85.7





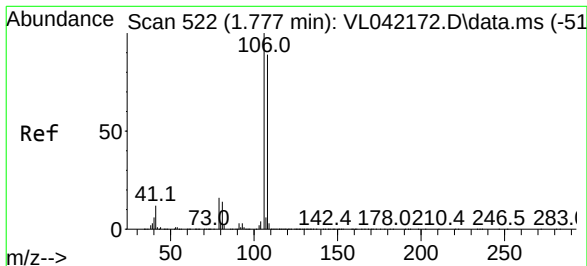
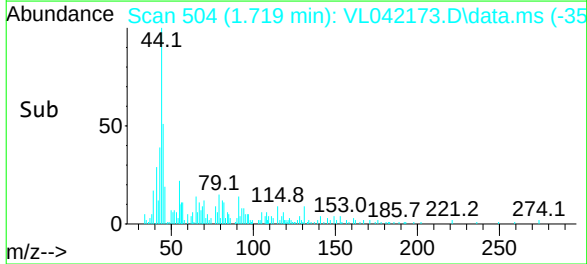
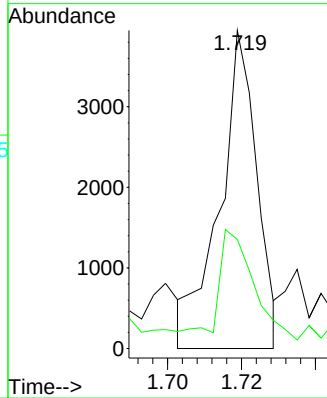
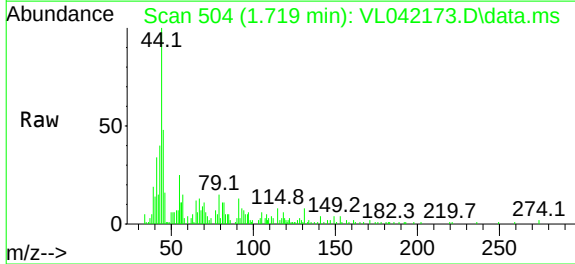
#13
Ethanol
Concen: 2.741 ppbv m
RT: 1.719 min Scan# 504
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion: 45 Resp: 2748
Ion Ratio Lower Upper
45 100
46 56.9 20.2 80.8

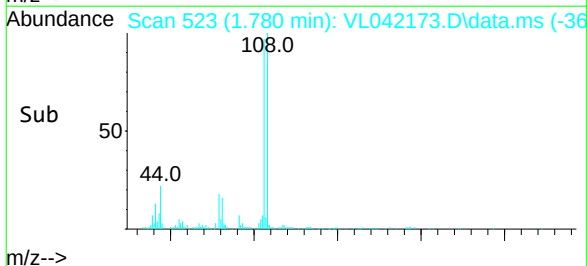
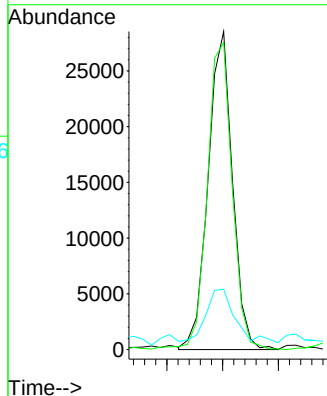
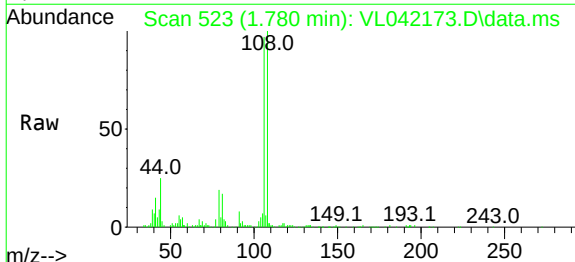
Manual Integrations
APPROVED

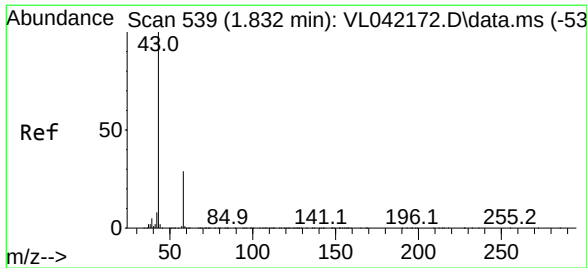
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#14
Bromoethene
Concen: 2.033 ppbv
RT: 1.780 min Scan# 523
Delta R.T. 0.003 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

Tgt Ion:108 Resp: 17323
Ion Ratio Lower Upper
108 100
106 100.6 86.8 130.2
79 32.0 15.0 22.6#





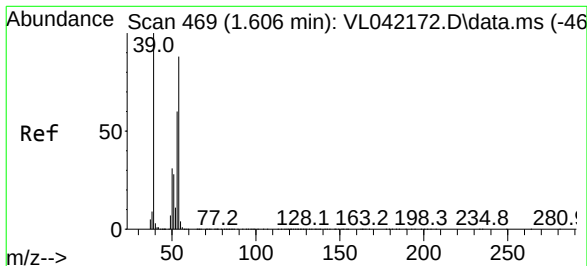
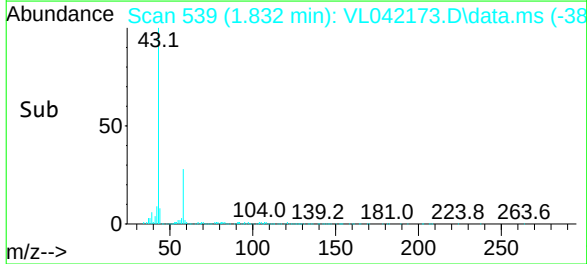
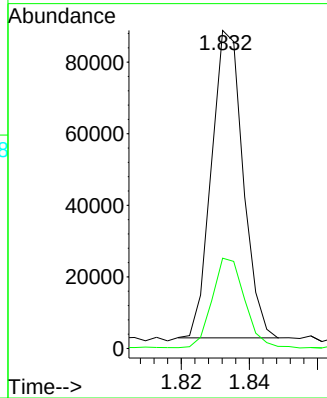
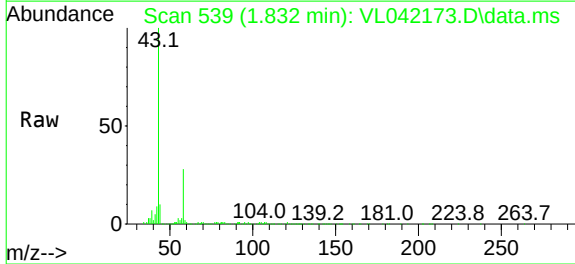
#15
Acetone
Concen: 2.101 ppbv
RT: 1.832 min Scan# 539
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion: 43 Resp: 55365
Ion Ratio Lower Upper
43 100
58 31.8 23.2 34.8

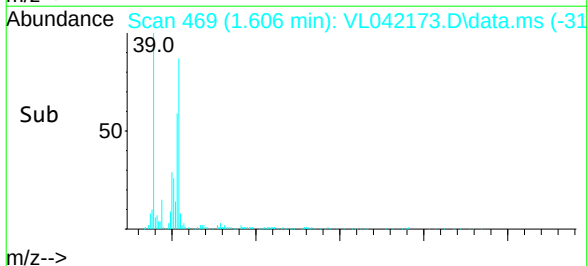
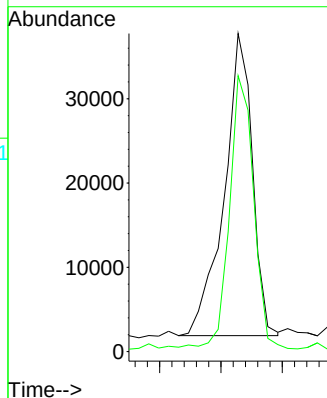
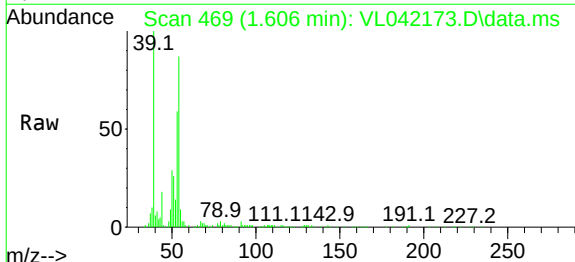
Manual Integrations
APPROVED

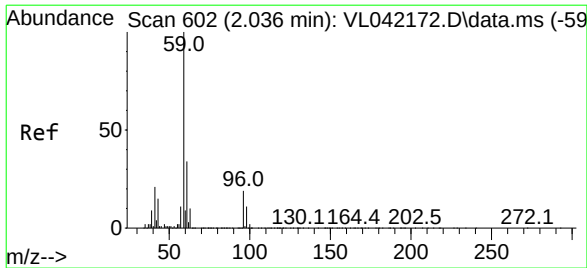
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#16
1,3-Butadiene
Concen: 1.932 ppbv
RT: 1.606 min Scan# 469
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

Tgt Ion: 39 Resp: 22894
Ion Ratio Lower Upper
39 100
54 79.9 60.7 91.1





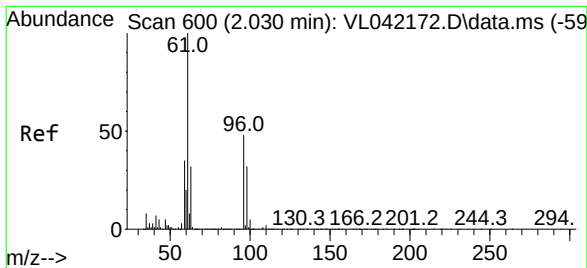
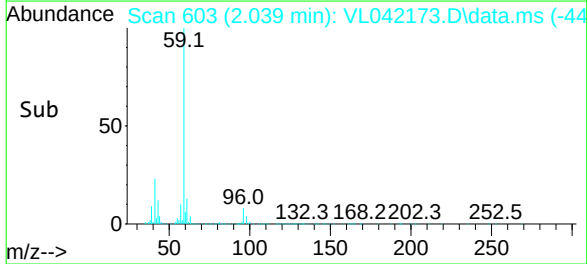
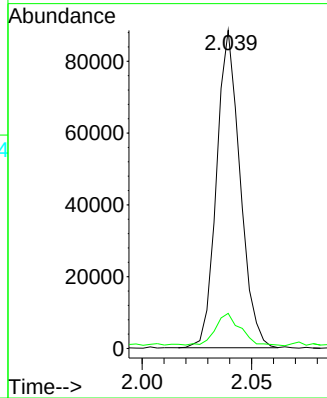
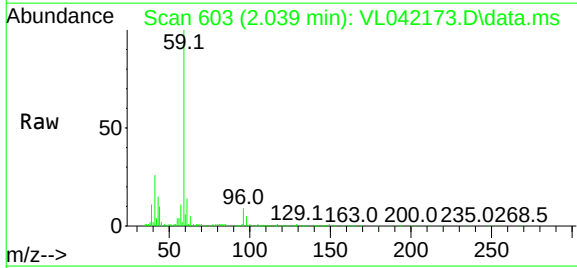
#17
tert-Butyl alcohol
Concen: 2.016 ppbv
RT: 2.039 min Scan# 60
Delta R.T. 0.003 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion: 59 Resp: 66174
Ion Ratio Lower Upper
59 100
57 11.2 8.9 13.3

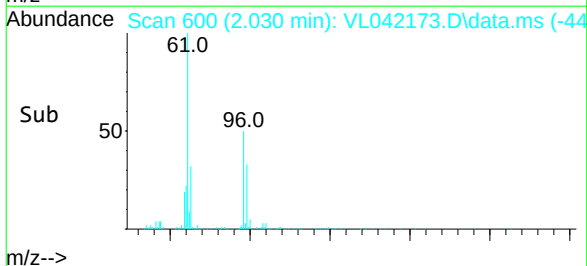
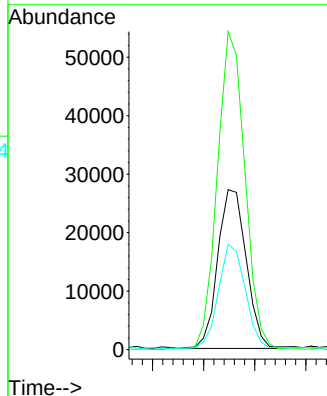
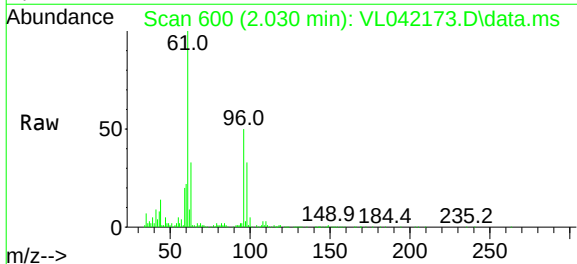
Manual Integrations
APPROVED

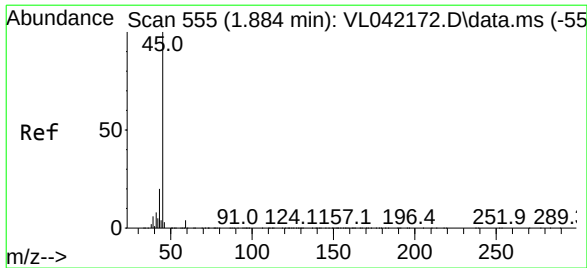
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#18
1,1-Dichloroethene
Concen: 2.029 ppbv
RT: 2.030 min Scan# 600
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

Tgt Ion: 96 Resp: 21103
Ion Ratio Lower Upper
96 100
61 199.8 167.6 251.4
98 66.0 53.5 80.3





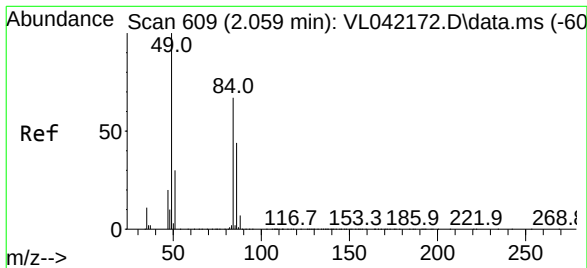
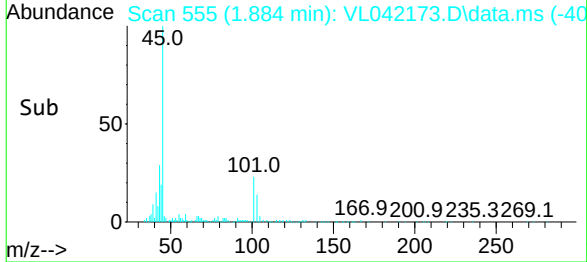
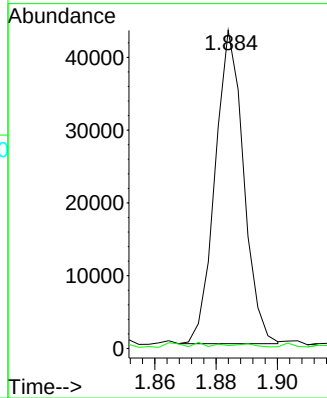
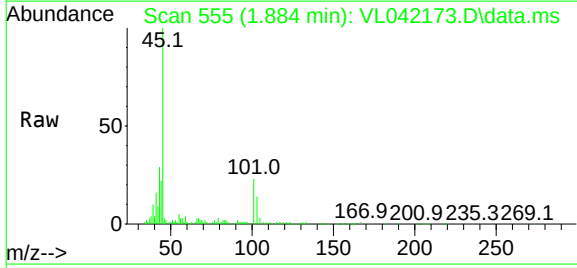
#19
Isopropyl Alcohol
Concen: 1.870 ppbv
RT: 1.884 min Scan# 555
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tgt Ion: 45 Resp: 27804
Ion Ratio Lower Upper
45 100
58 3.3 36.9 55.3

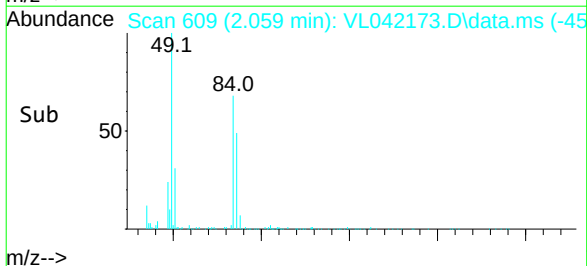
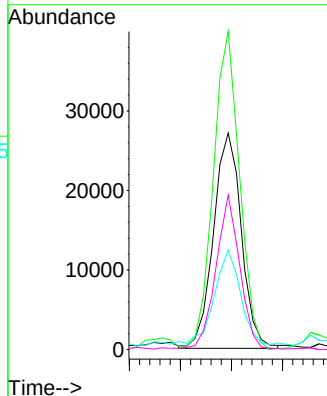
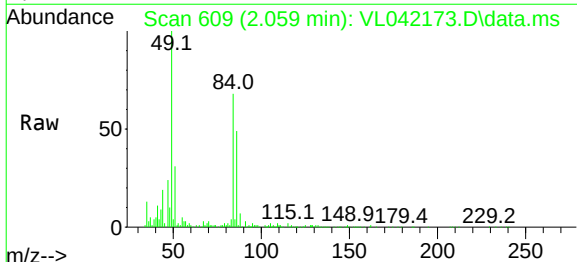
Manual Integrations
APPROVED

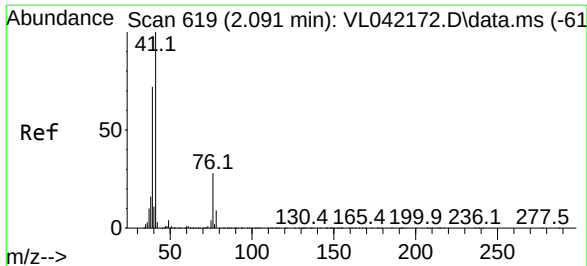
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#20
Methylene Chloride
Concen: 2.091 ppbv
RT: 2.059 min Scan# 609
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

Tgt Ion: 84 Resp: 20518
Ion Ratio Lower Upper
84 100
49 148.8 120.2 180.4
51 43.5 37.4 56.0
86 72.2 52.4 78.6





#21

Allyl Chloride

Concen: 2.068 ppbv

RT: 2.094 min Scan# 62

Delta R.T. 0.003 min

Lab File: VL042173.D

Acq: 27 Mar 2025 08:59

Instrument :

MSVOA_L

ClientSampleId :

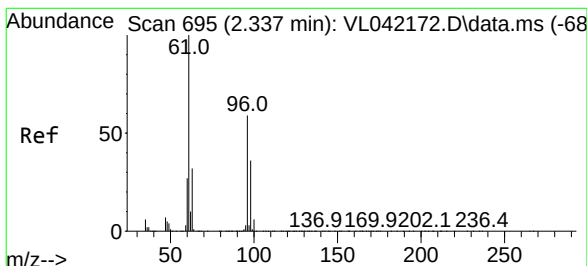
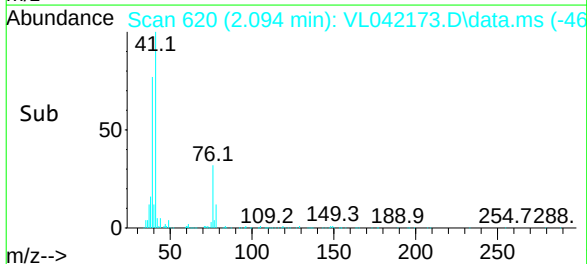
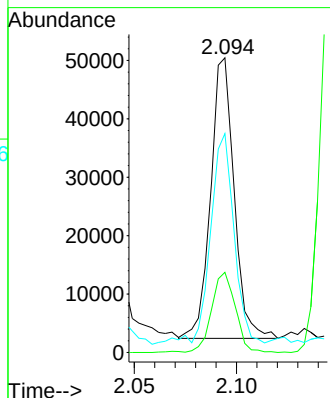
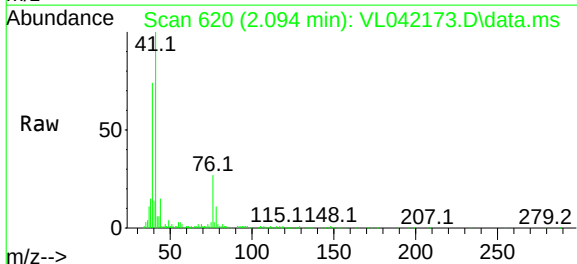
VSTDIC002

Tgt Ion:	41	Resp:	38425
Ion	Ratio	Lower	Upper
41	100		
76	29.0	24.1	36.1
39	77.5	61.1	91.7

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#22

trans-1,2-Dichloroethene

Concen: 1.924 ppbv

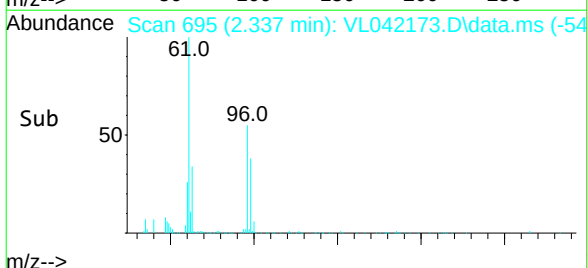
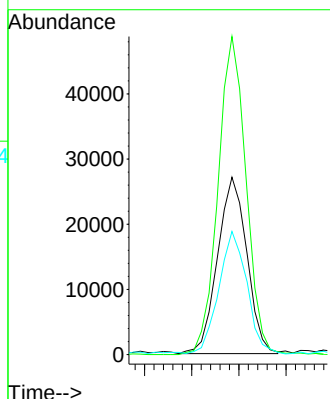
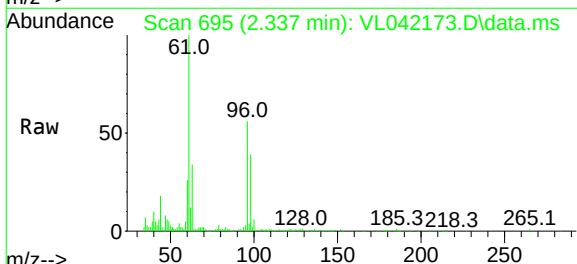
RT: 2.337 min Scan# 695

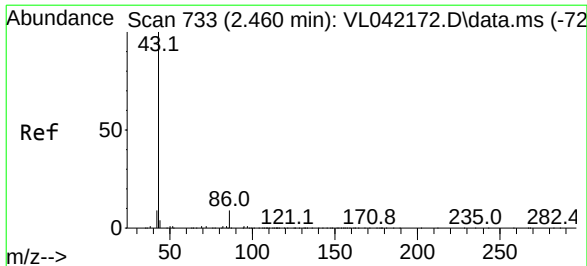
Delta R.T. -0.000 min

Lab File: VL042173.D

Acq: 27 Mar 2025 08:59

Tgt Ion:	96	Resp:	23384
Ion	Ratio	Lower	Upper
96	100		
61	180.3	136.6	204.8
98	68.6	49.4	74.2





#23

Vinyl Acetate

Concen: 1.894 ppbv

RT: 2.460 min Scan# 733

Delta R.T. -0.000 min

Lab File: VL042173.D

Acq: 27 Mar 2025 08:59

Instrument :

MSVOA_L

ClientSampleId :

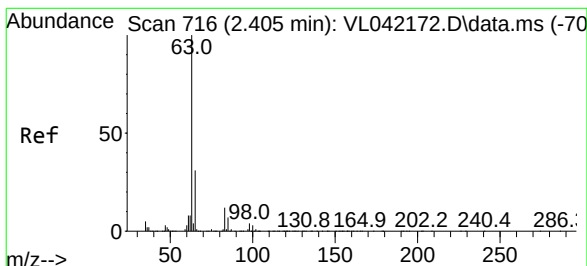
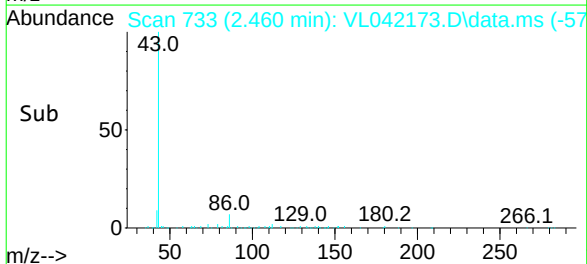
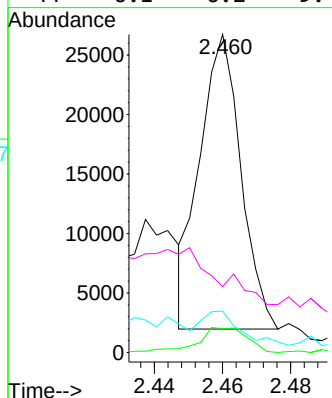
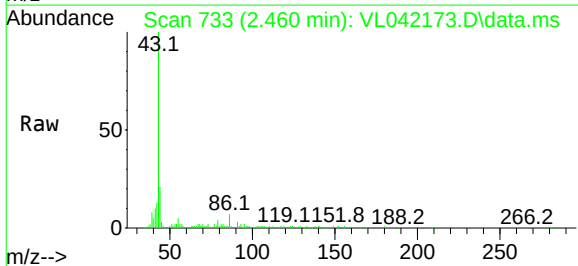
VSTDICC002

Tgt Ion:	43	Resp:	20736
Ion	Ratio	Lower	Upper
43	100		
86	8.1	5.5	8.3
42	10.4	8.6	13.0
44	6.1	6.2	9.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#24

1,1-Dichloroethane

Concen: 2.008 ppbv

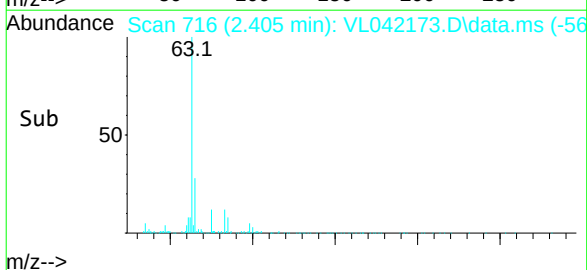
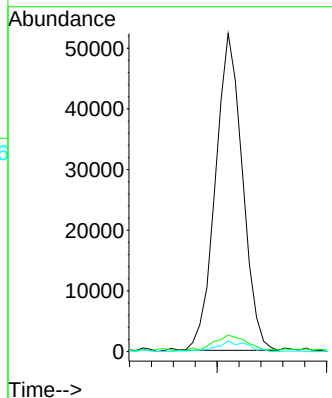
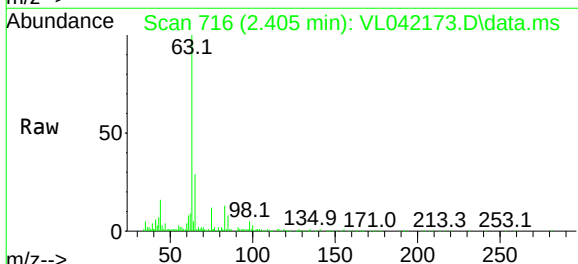
RT: 2.405 min Scan# 716

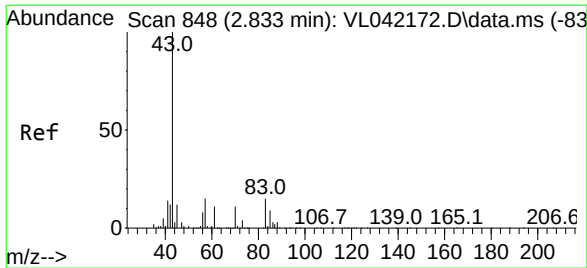
Delta R.T. -0.000 min

Lab File: VL042173.D

Acq: 27 Mar 2025 08:59

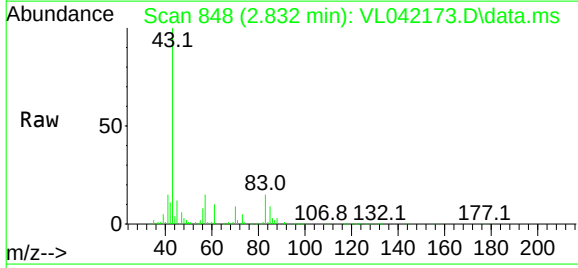
Tgt Ion:	63	Resp:	44740
Ion	Ratio	Lower	Upper
63	100		
98	4.9	2.3	6.8
100	3.3	1.6	4.7





#25
Ethyl Acetate
Concen: 2.040 ppbv
RT: 2.832 min Scan# 848
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

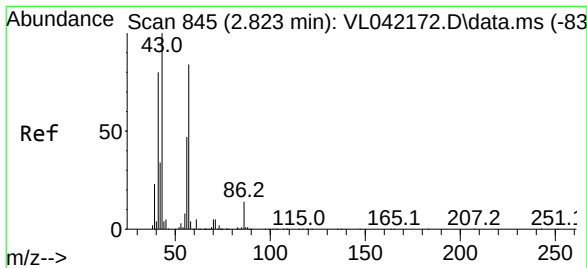
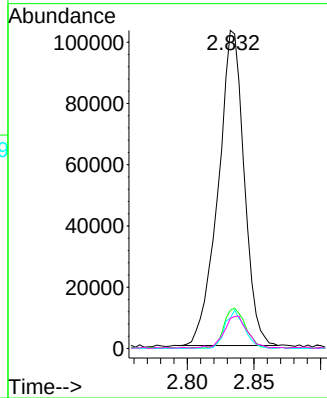
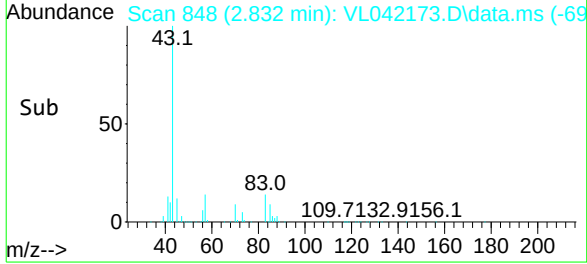
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002



Tgt Ion: 43 Resp: 139516
Ion Ratio Lower Upper
43 100
45 10.9 8.2 12.2
61 9.1 7.3 10.9
70 9.5 7.2 10.8

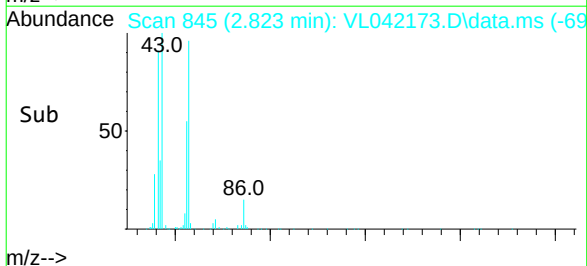
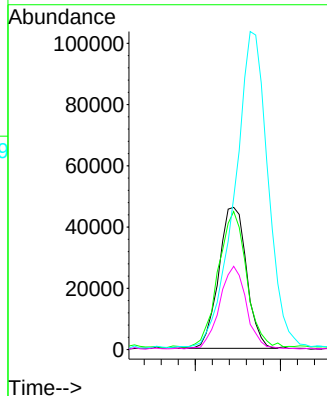
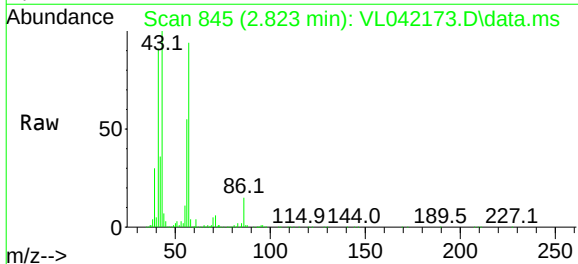
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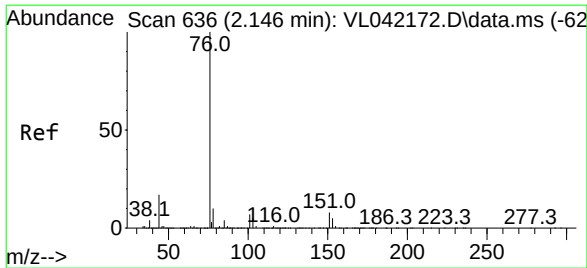
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#26
Hexane
Concen: 1.972 ppbv
RT: 2.823 min Scan# 845
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

Tgt Ion: 57 Resp: 52095
Ion Ratio Lower Upper
57 100
41 100.9 76.6 114.8
43 274.8 207.8 311.8
56 61.1 43.6 65.4





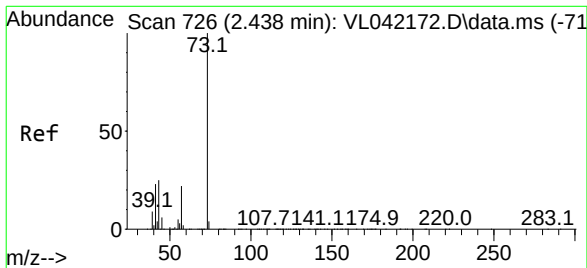
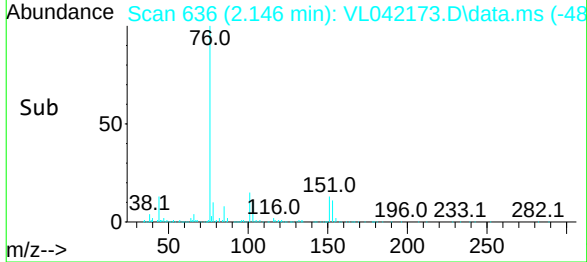
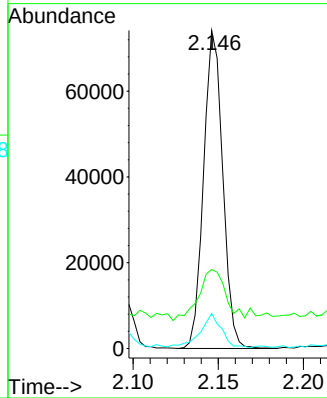
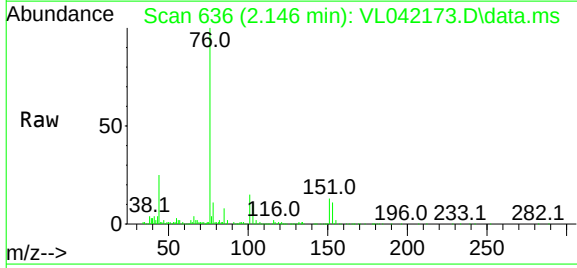
#27
Carbon Disulfide
Concen: 2.047 ppbv
RT: 2.146 min Scan# 636
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

Instrument : MSVOA_L
ClientSampleId : VSTDICC002

Tgt Ion: 76 Resp: 57969
Ion Ratio Lower Upper
76 100
44 35.2 14.7 22.1#
78 12.0 9.3 13.9

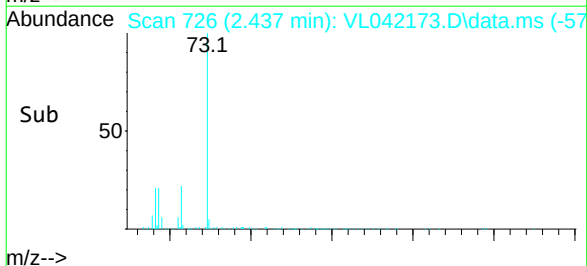
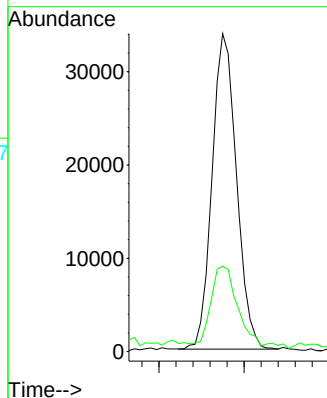
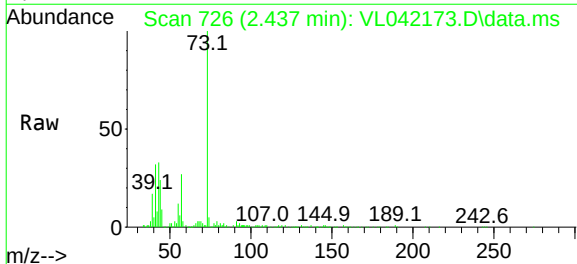
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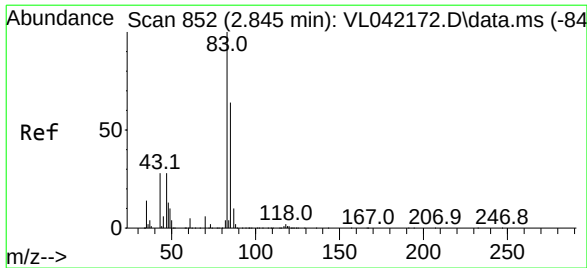
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#28
Methyl tert-Butyl Ether
Concen: 2.049 ppbv
RT: 2.437 min Scan# 726
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

Tgt Ion: 73 Resp: 33703
Ion Ratio Lower Upper
73 100
57 25.2 20.5 30.7





#29

Chloroform

Concen: 2.019 ppbv

RT: 2.845 min Scan# 85

Delta R.T. -0.000 min

Lab File: VL042173.D

Acq: 27 Mar 2025 08:59

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC002

Tgt Ion: 83 Resp: 78043

Ion Ratio Lower Upper

83 100

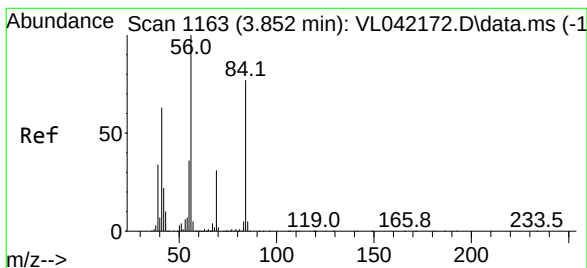
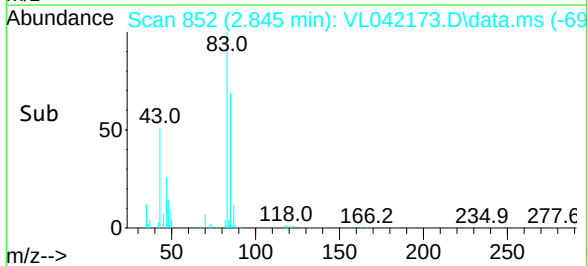
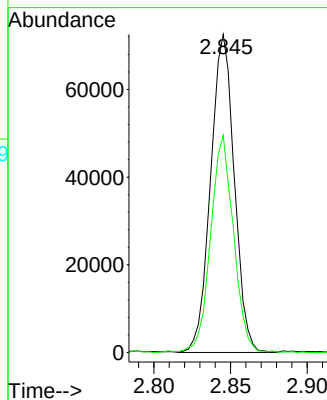
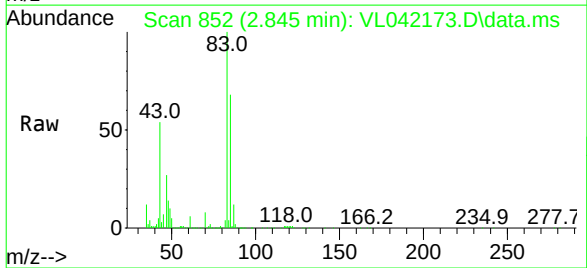
85 68.2 51.4 77.2

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 03/31/2025

Supervised By :Mahesh Dadoda 04/03/2025



#30

Cyclohexane

Concen: 1.989 ppbv

RT: 3.852 min Scan# 1163

Delta R.T. -0.000 min

Lab File: VL042173.D

Acq: 27 Mar 2025 08:59

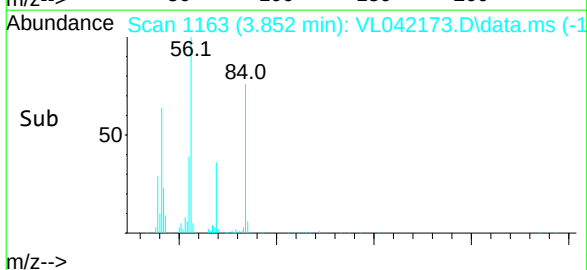
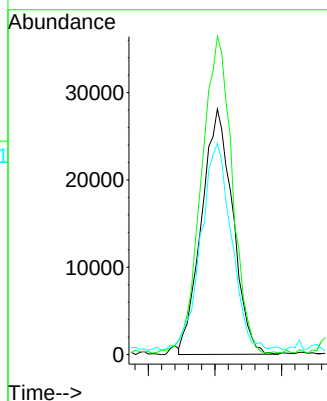
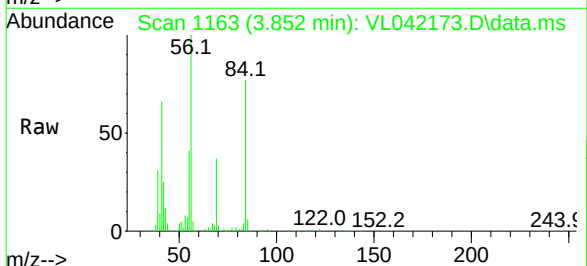
Tgt Ion: 84 Resp: 45641

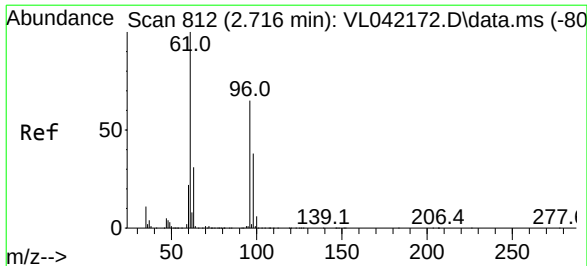
Ion Ratio Lower Upper

84 100

56 127.8 102.8 154.2

41 84.6 66.5 99.7





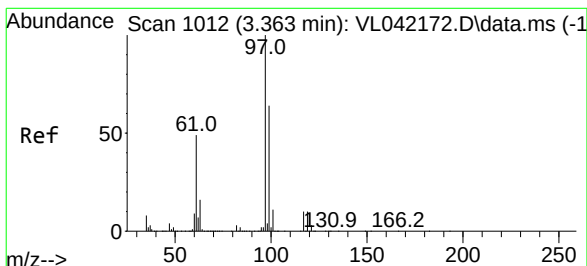
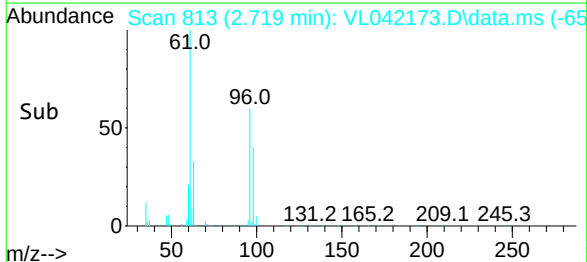
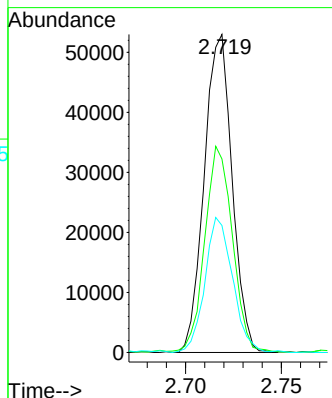
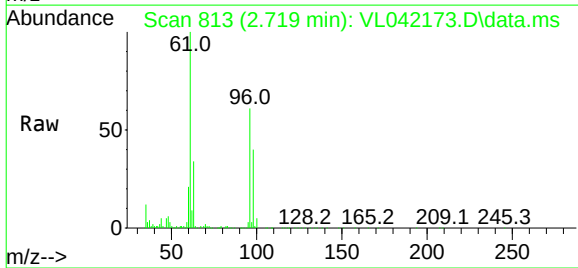
#31
 cis-1,2-Dichloroethene
 Concen: 2.003 ppbv
 RT: 2.719 min Scan# 812
 Delta R.T. 0.003 min
 Lab File: VL042173.D
 Acq: 27 Mar 2025 08:59

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC002

Tgt Ion:	61	Resp:	53713
Ion	Ratio	Lower	Upper
61	100		
96	60.6	51.8	77.8
98	39.6	30.6	46.0

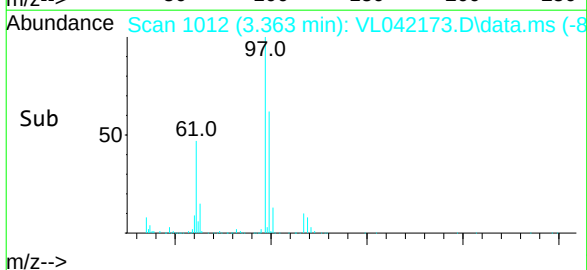
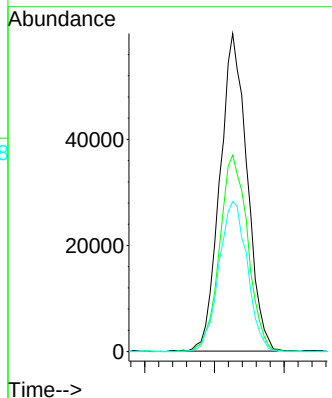
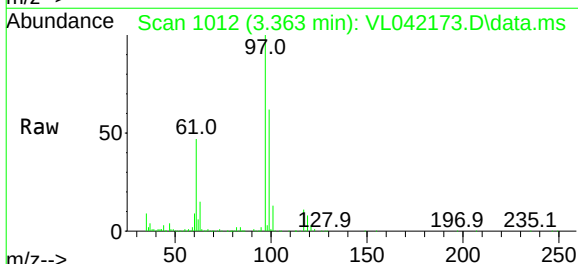
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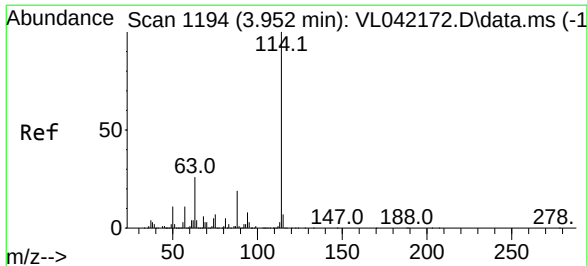
Reviewed By :Semsettin Yesilyurt 03/31/2025
 Supervised By :Mahesh Dadoda 04/03/2025



#32
 1,1,1-Trichloroethane
 Concen: 1.833 ppbv
 RT: 3.363 min Scan# 1012
 Delta R.T. -0.000 min
 Lab File: VL042173.D
 Acq: 27 Mar 2025 08:59

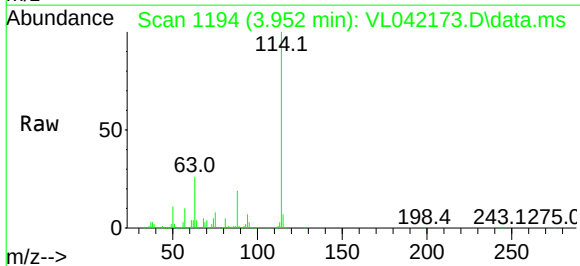
Tgt Ion:	97	Resp:	81070
Ion	Ratio	Lower	Upper
97	100		
99	63.9	51.5	77.3
61	49.3	38.7	58.1





#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.952 min Scan# 1194
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

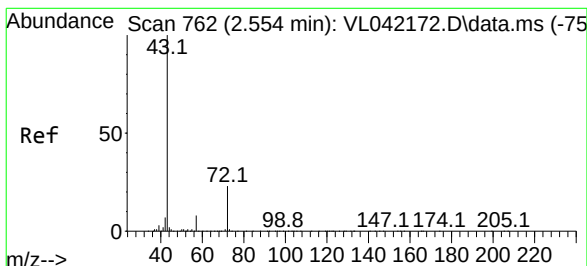
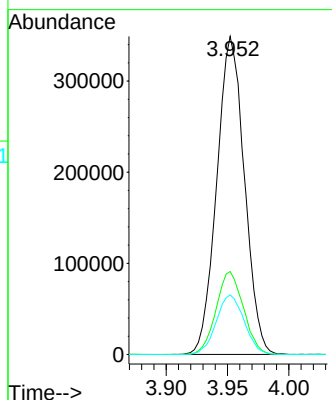
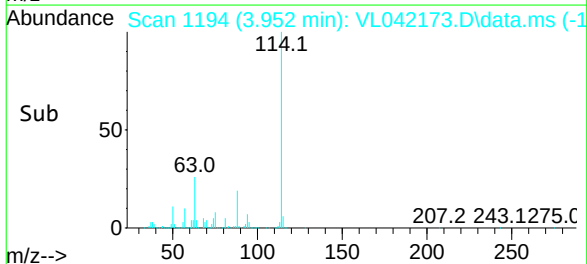
Instrument : MSVOA_L
ClientSampleId : VSTDICC002



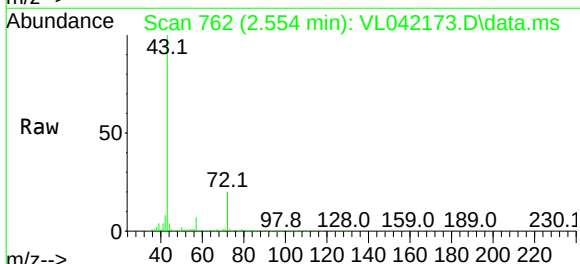
Tgt Ion: 114 Resp: 546394
Ion Ratio Lower Upper
114 100
63 25.9 20.7 31.1
88 18.9 15.0 22.4

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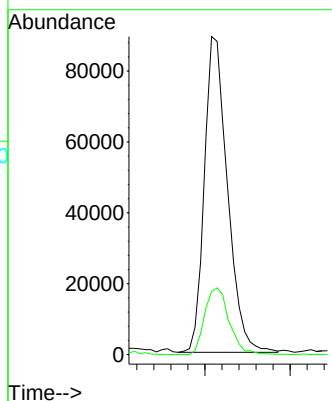
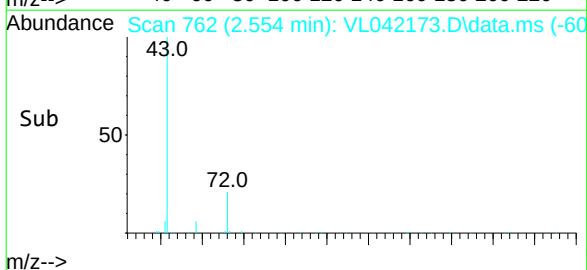
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025

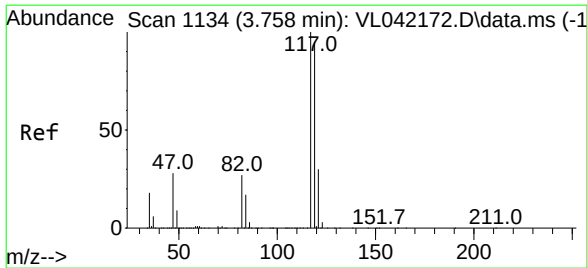


#34
2-Butanone
Concen: 2.124 ppbv
RT: 2.554 min Scan# 762
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59



Tgt Ion: 43 Resp: 84157
Ion Ratio Lower Upper
43 100
72 22.4 18.2 27.2





#35

Carbon Tetrachloride

Concen: 1.944 ppbv

RT: 3.758 min Scan# 11

Delta R.T. -0.000 min

Lab File: VL042173.D

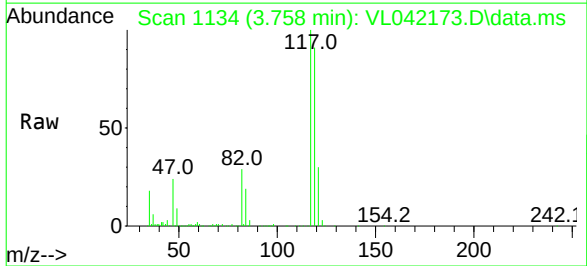
Acq: 27 Mar 2025 08:59

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002



Tgt Ion: 117 Resp: 81735

Ion Ratio Lower Upper

117 100

119 90.8 76.2 114.2

121 30.0 24.2 36.4

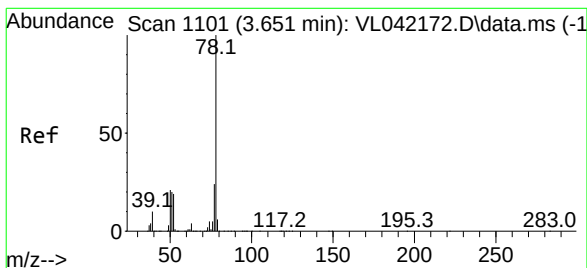
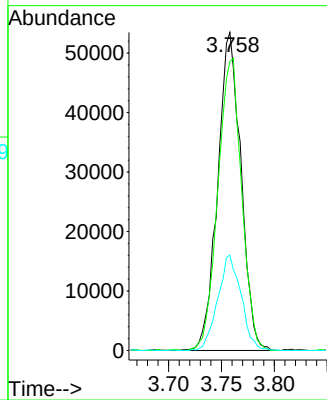
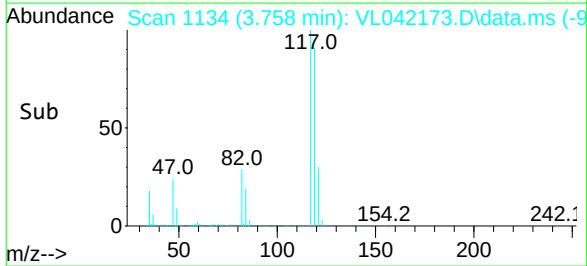
Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 03/31/2025

Supervised By :Mahesh Dadoda

04/03/2025



#36

Benzene

Concen: 2.044 ppbv

RT: 3.651 min Scan# 1101

Delta R.T. -0.000 min

Lab File: VL042173.D

Acq: 27 Mar 2025 08:59

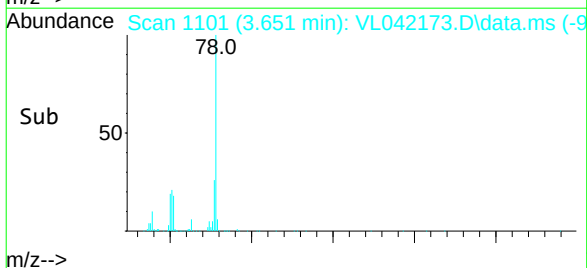
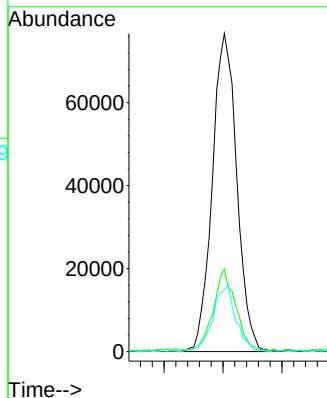
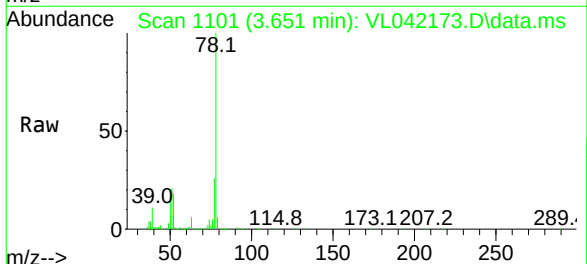
Tgt Ion: 78 Resp: 110727

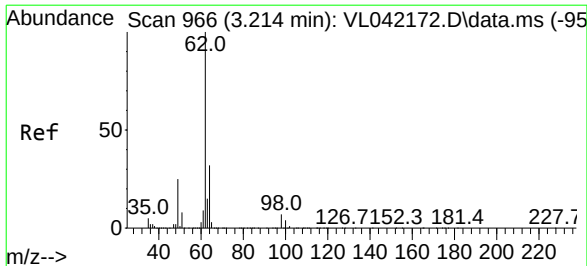
Ion Ratio Lower Upper

78 100

77 25.7 19.1 28.7

50 19.3 16.6 24.8





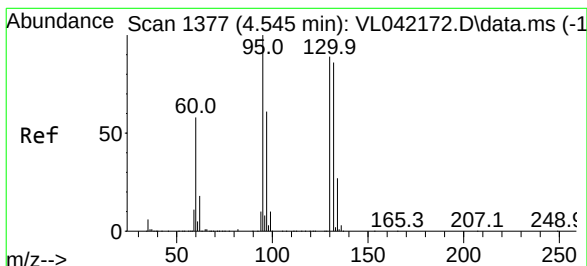
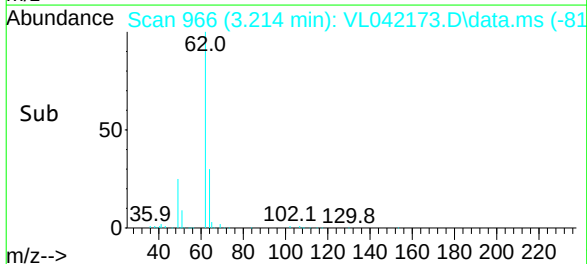
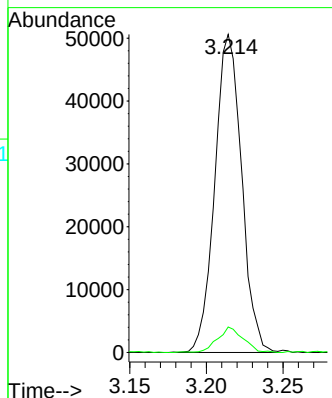
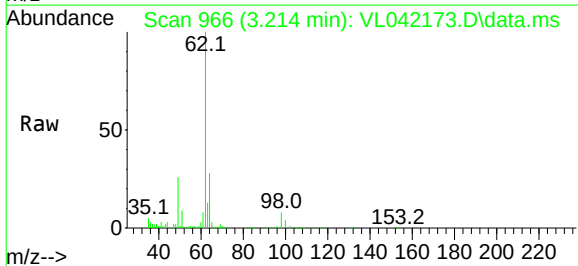
#37
1,2-Dichloroethane
Concen: 1.982 ppbv
RT: 3.214 min Scan# 96
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion: 62 Resp: 61476
Ion Ratio Lower Upper
62 100
98 7.7 5.4 8.2

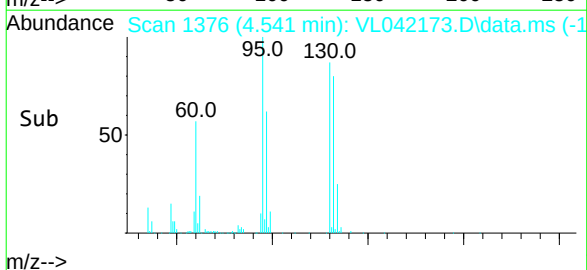
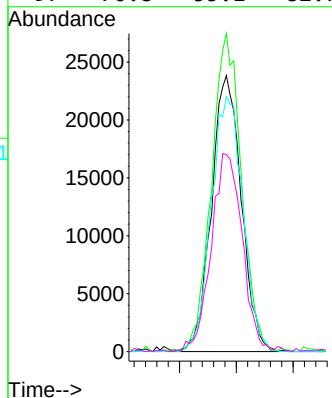
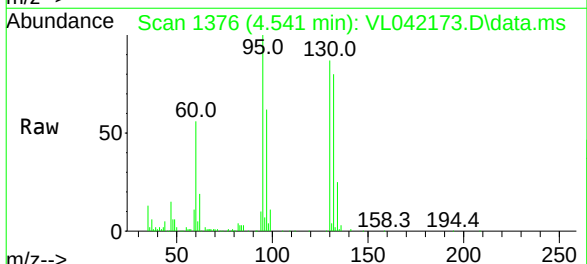
Manual Integrations
APPROVED

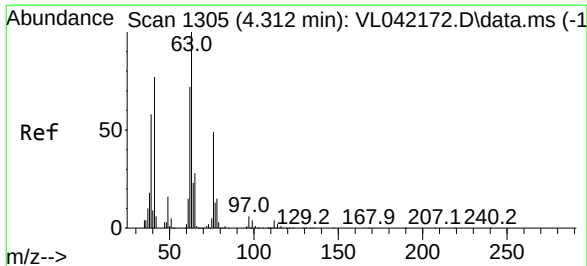
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#38
Trichloroethene
Concen: 1.924 ppbv
RT: 4.541 min Scan# 1376
Delta R.T. -0.003 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

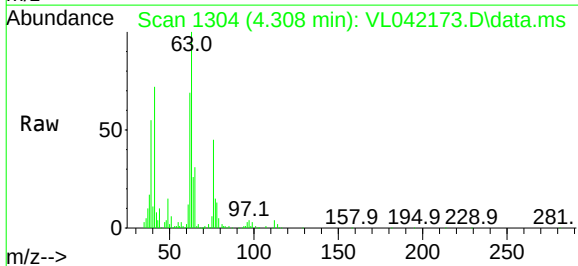
Tgt Ion:130 Resp: 43501
Ion Ratio Lower Upper
130 100
95 114.8 89.8 134.8
132 92.2 77.4 116.2
97 70.8 55.1 82.7





#39
1,2-Dichloropropane
Concen: 2.023 ppbv
RT: 4.308 min Scan# 1305
Delta R.T. -0.003 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

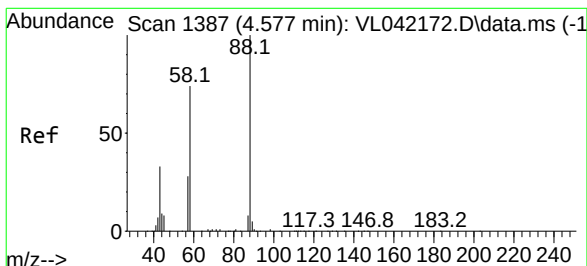
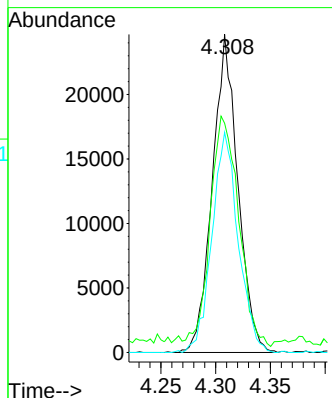
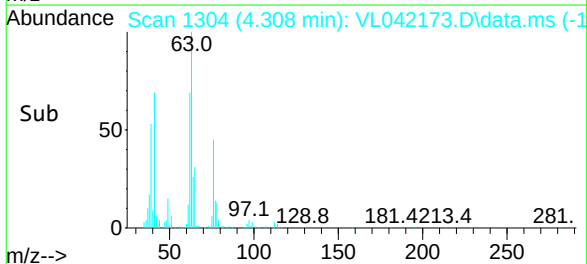
Instrument : MSVOA_L
ClientSampleId : VSTDICC002



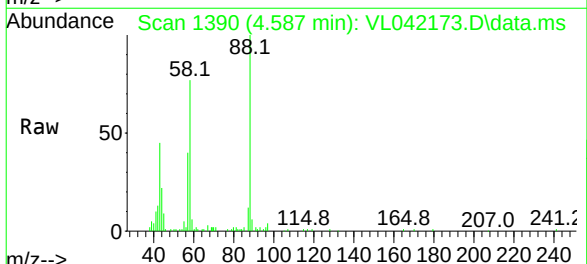
Tgt Ion: 63 Resp: 39912
Ion Ratio Lower Upper
63 100
41 68.6 61.7 92.5
62 69.2 57.6 86.4

Manual Integrations
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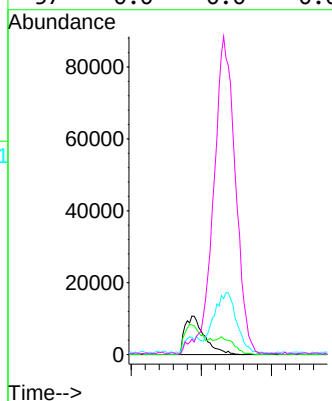
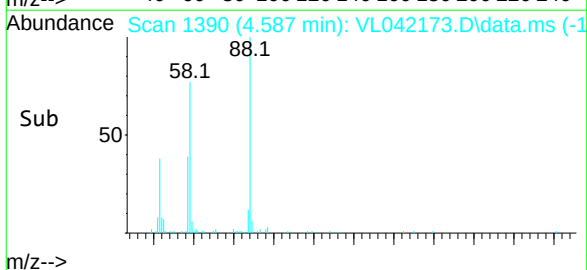
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025

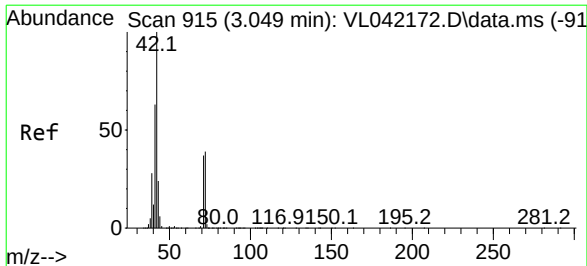


#40
1,4-Dioxane
Concen: 2.040 ppbv m
RT: 4.587 min Scan# 1390
Delta R.T. 0.009 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59



Tgt Ion: 88 Resp: 20884
Ion Ratio Lower Upper
88 100
58 119.5 62.7 94.1#
43 0.0 23.0 34.4#
57 0.0 0.0 0.0





#41

Tetrahydrofuran

Concen: 2.097 ppbv

RT: 3.056 min Scan# 91

Delta R.T. 0.006 min

Lab File: VL042173.D

Acq: 27 Mar 2025 08:59

Instrument :

MSVOA_L

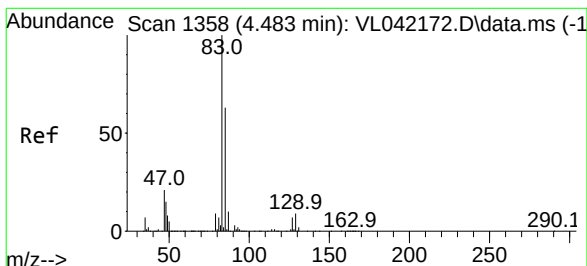
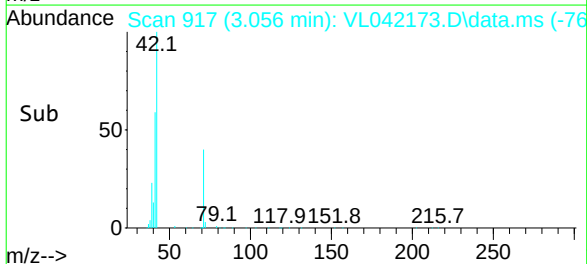
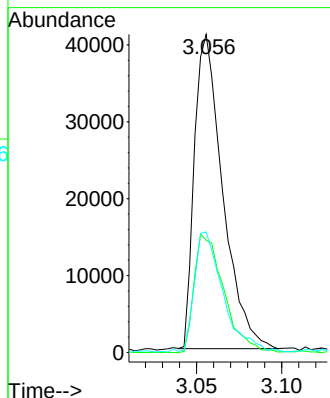
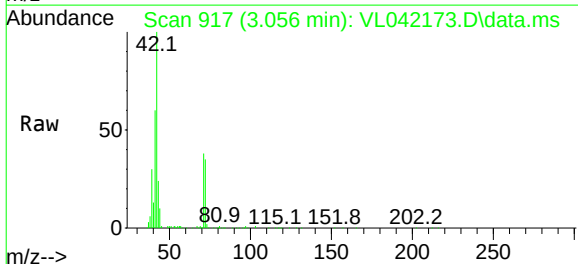
ClientSampleId :

VSTDICC002

Tgt Ion: 42	Resp: 47262
Ion Ratio	Lower Upper
42 100	
72 39.6	31.4 47.0
71 39.0	30.2 45.4

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#42

Bromodichloromethane

Concen: 2.050 ppbv

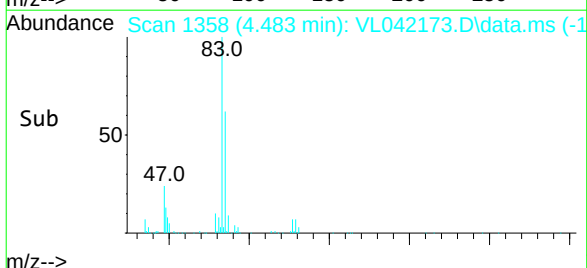
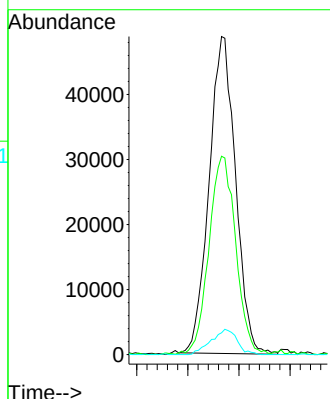
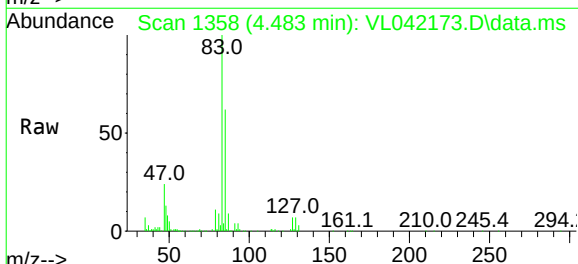
RT: 4.483 min Scan# 1358

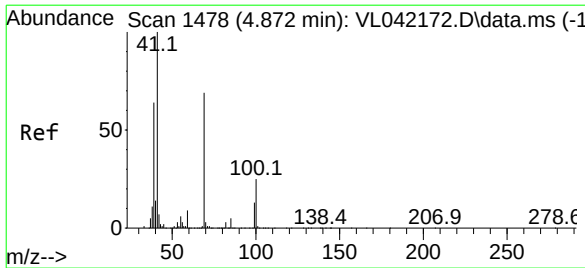
Delta R.T. -0.000 min

Lab File: VL042173.D

Acq: 27 Mar 2025 08:59

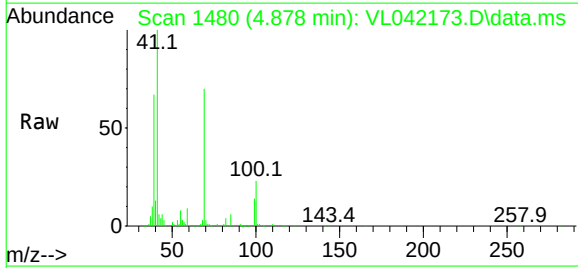
Tgt Ion: 83	Resp: 87640
Ion Ratio	Lower Upper
83 100	
85 62.2	50.5 75.7
127 6.9	5.9 8.9





#43
Methyl Methacrylate
Concen: 1.952 ppbv
RT: 4.878 min Scan# 1478
Delta R.T. 0.006 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

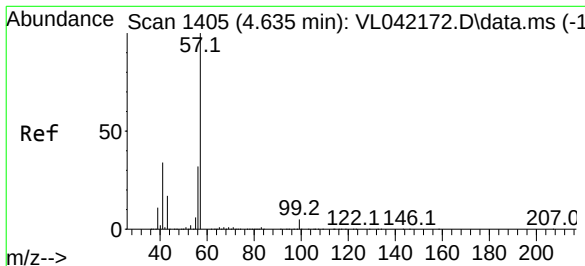
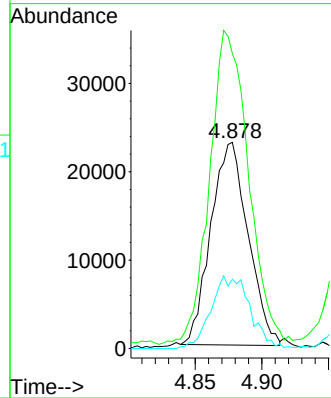
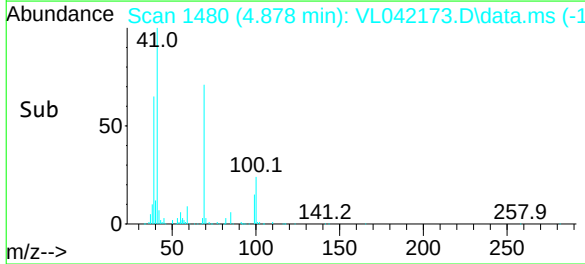
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002



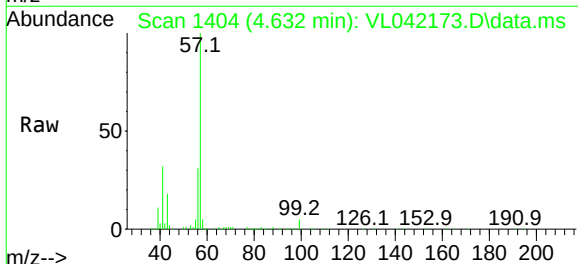
Tgt Ion: 69 Resp: 44624
Ion Ratio Lower Upper
69 100
41 158.7 123.8 185.6
100 37.5 28.4 42.6

Manual Integrations
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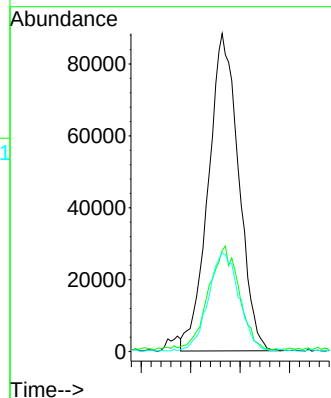
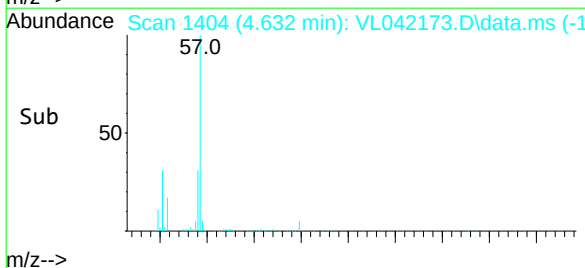
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025

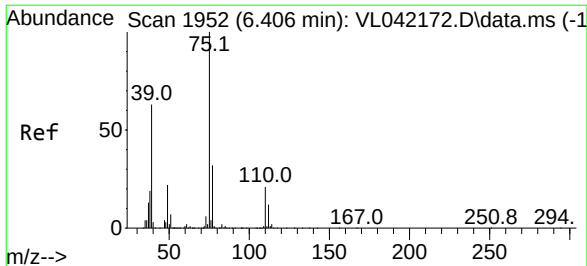


#44
2,2,4-Trimethylpentane
Concen: 2.057 ppbv
RT: 4.632 min Scan# 1404
Delta R.T. -0.003 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59



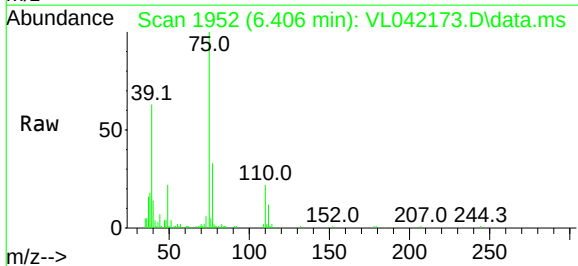
Tgt Ion: 57 Resp: 188282
Ion Ratio Lower Upper
57 100
41 33.8 26.8 40.2
56 31.8 25.6 38.4





#45
t-1,3-Dichloropropene
Concen: 2.011 ppbv
RT: 6.406 min Scan# 1952
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

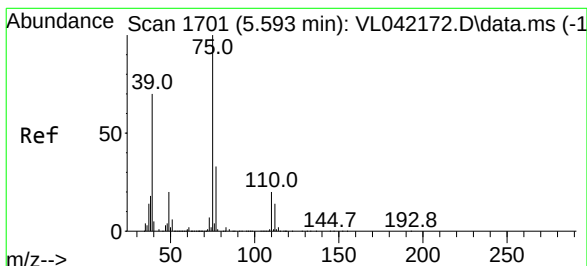
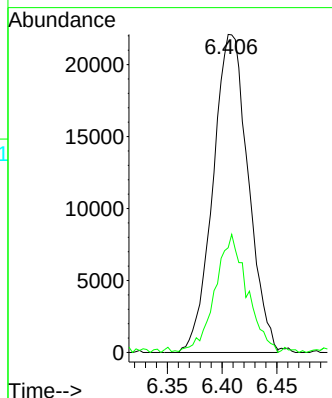
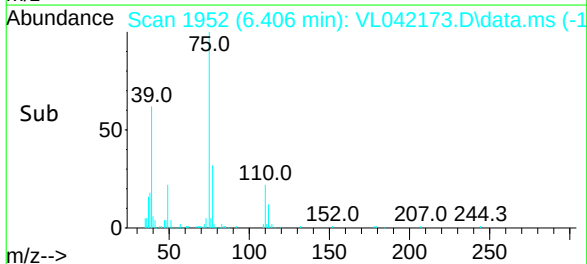
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002



Tgt Ion: 75 Resp: 49461
Ion Ratio Lower Upper
75 100
77 32.9 26.0 39.0

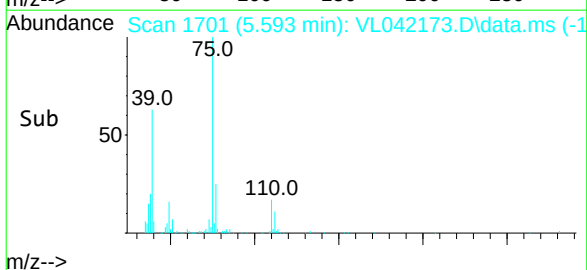
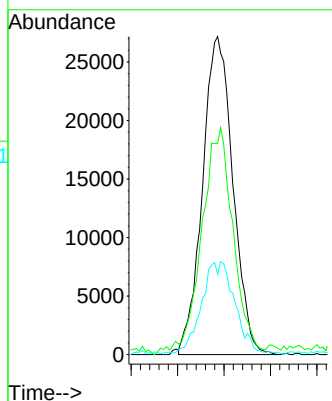
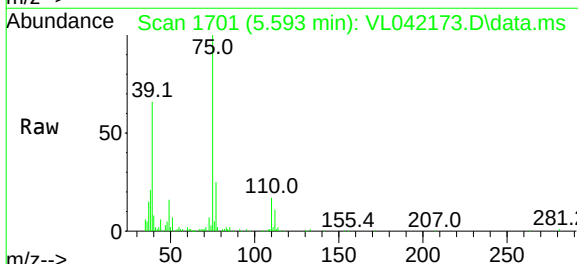
Manual Integrations
APPROVED

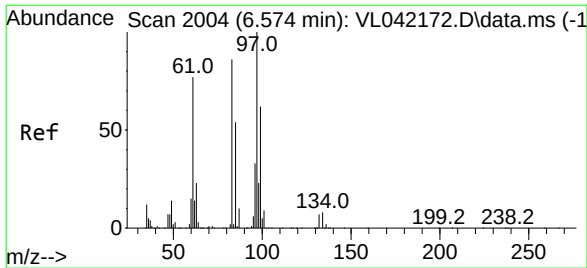
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#46
cis-1,3-Dichloropropene
Concen: 2.050 ppbv
RT: 5.593 min Scan# 1701
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

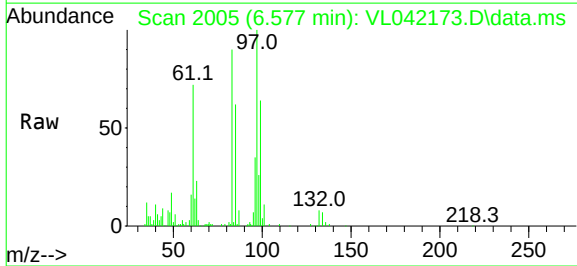
Tgt Ion: 75 Resp: 61829
Ion Ratio Lower Upper
75 100
39 64.4 55.8 83.6
77 24.5 26.0 39.0#





#47
1,1,2-Trichloroethane
Concen: 1.985 ppbv
RT: 6.577 min Scan# 2004
Delta R.T. 0.003 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

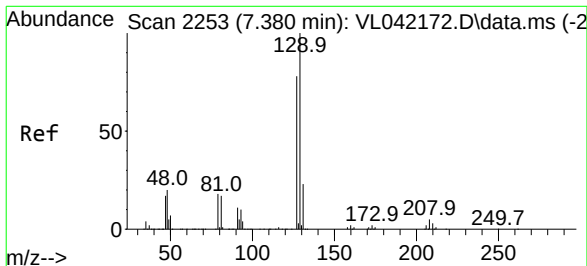
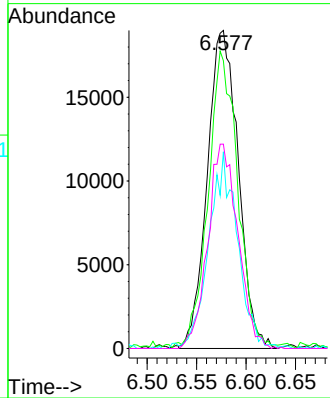
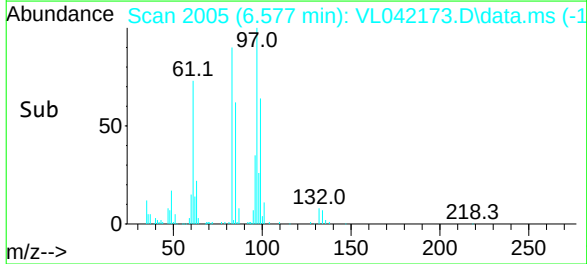
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002



Tgt Ion: 97 Resp: 41387
Ion Ratio Lower Upper
97 100
83 89.4 69.2 103.8
85 61.3 43.1 64.7
99 64.2 49.4 74.2

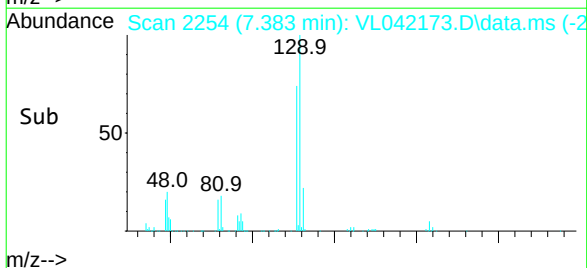
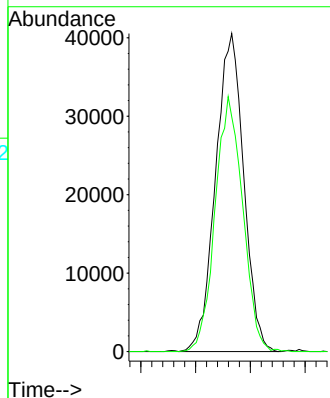
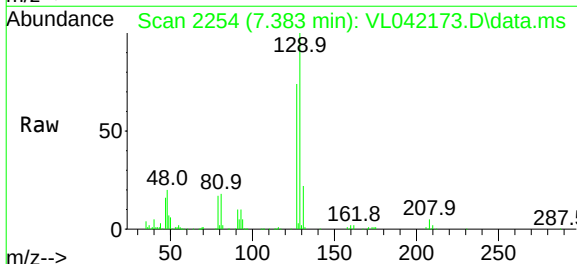
Manual Integrations
APPROVED

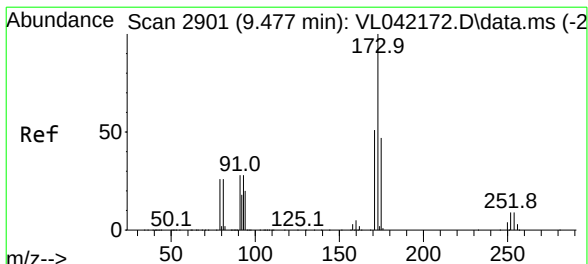
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#48
Dibromochloromethane
Concen: 2.050 ppbv
RT: 7.383 min Scan# 2254
Delta R.T. 0.003 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

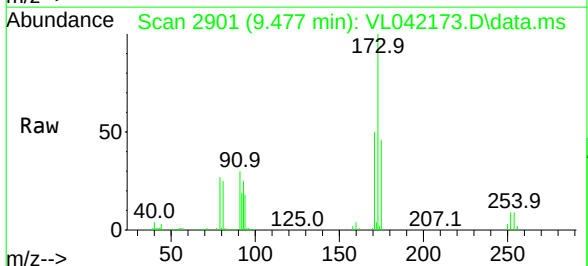
Tgt Ion:129 Resp: 72441
Ion Ratio Lower Upper
129 100
127 78.5 39.1 117.2





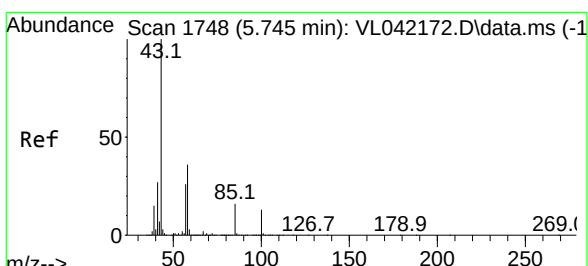
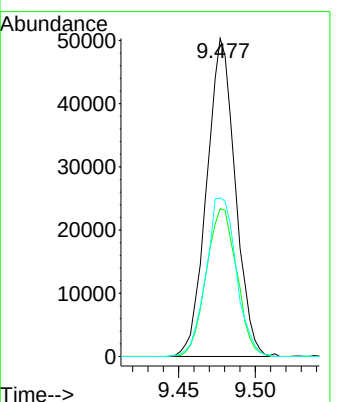
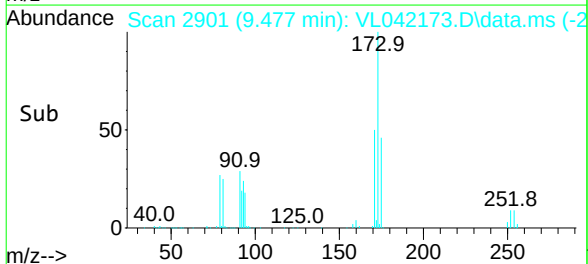
#49
 Bromoform
 Concen: 2.056 ppbv
 RT: 9.477 min Scan# 2901
 Delta R.T. -0.000 min
 Lab File: VL042173.D
 Acq: 27 Mar 2025 08:59

Instrument : MSVOA_L
 ClientSampleId : VSTDIC002

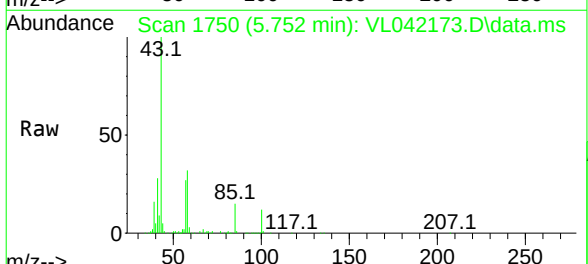


Tgt Ion:	173	Resp:	65221
Ion Ratio	Lower	Upper	
173	100		
175	49.7	38.6	57.8
171	53.0	41.8	62.6

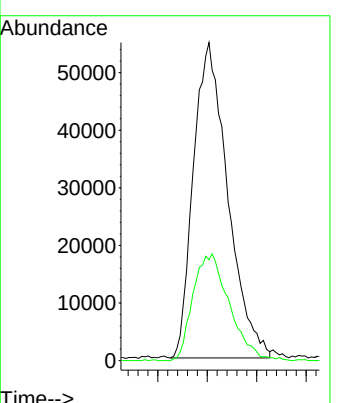
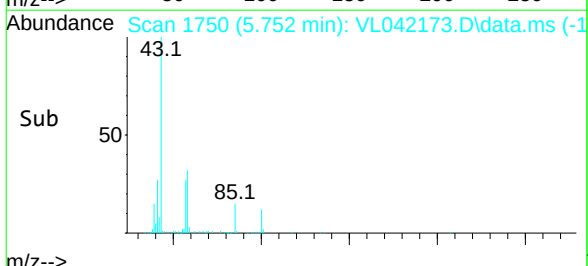
Manual Integrations
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 Reviewed By :Semsettin Yesilyurt 03/31/2025
 Supervised By :Mahesh Dadoda 04/03/2025

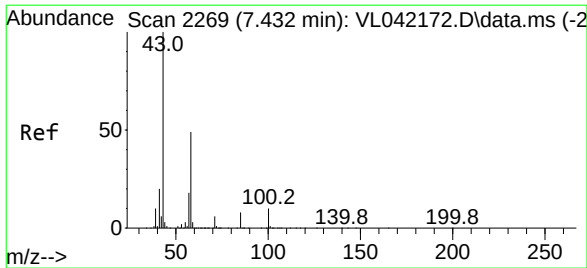


#50
 4-Methyl-2-Pentanone
 Concen: 2.107 ppbv
 RT: 5.752 min Scan# 1750
 Delta R.T. 0.006 min
 Lab File: VL042173.D
 Acq: 27 Mar 2025 08:59



Tgt Ion:	43	Resp:	132328
Ion Ratio	Lower	Upper	
43	100		
58	35.9	29.0	43.6





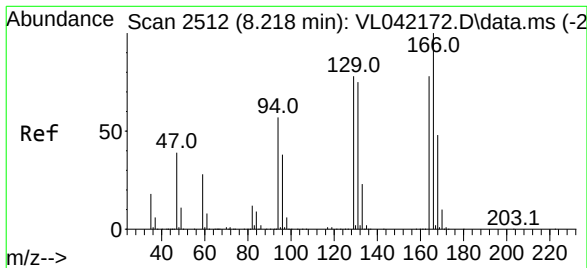
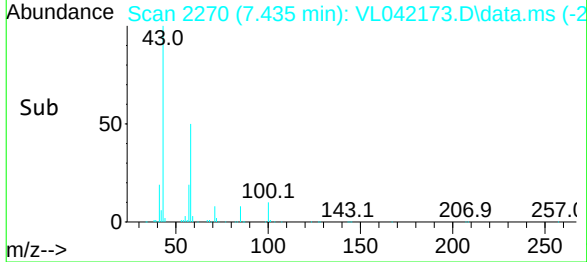
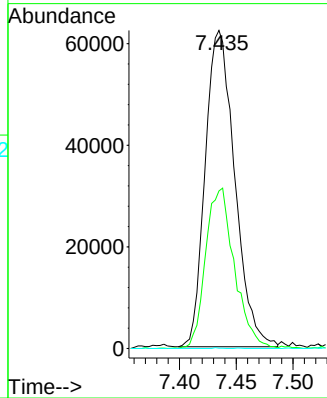
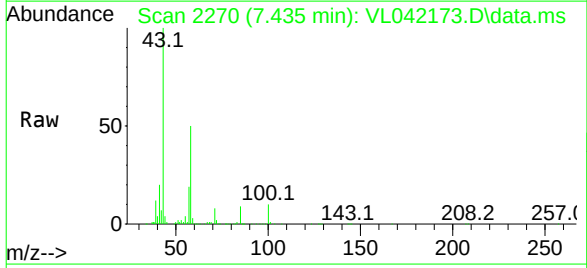
#51
2-Hexanone
Concen: 2.162 ppbv
RT: 7.435 min Scan# 2269
Delta R.T. 0.003 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

Instrument : MSVOA_L
ClientSampleId : VSTDIC002

Tgt Ion: 43 Resp: 112681
Ion Ratio Lower Upper
43 100
58 50.0 39.7 59.5
98 0.0 0.1 0.1

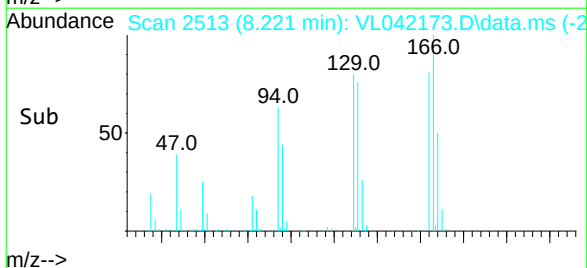
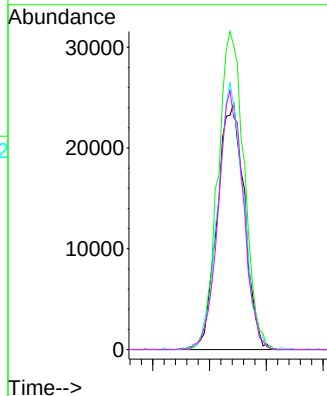
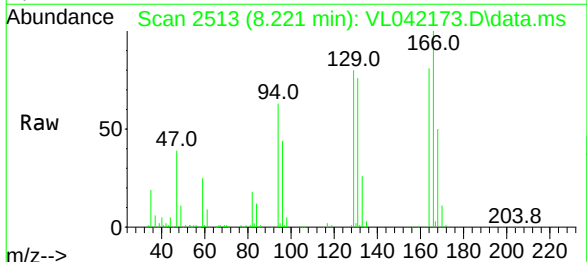
Manual Integrations
APPROVED

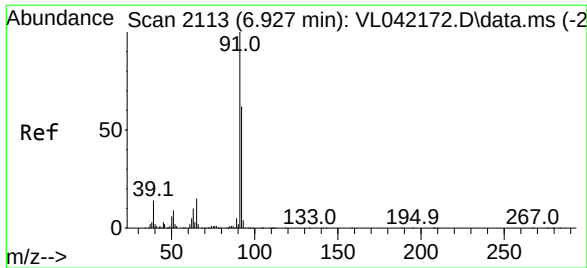
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#52
Tetrachloroethene
Concen: 1.888 ppbv
RT: 8.221 min Scan# 2513
Delta R.T. 0.003 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

Tgt Ion:164 Resp: 40558
Ion Ratio Lower Upper
164 100
166 123.4 102.5 153.7
129 99.2 79.8 119.8
131 94.1 76.6 114.8





#53

Toluene

Concen: 2.045 ppbv

RT: 6.923 min Scan# 2113

Delta R.T. -0.003 min

Lab File: VL042173.D

Acq: 27 Mar 2025 08:59

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tgt Ion: 91 Resp: 131314

Ion Ratio Lower Upper

91 100

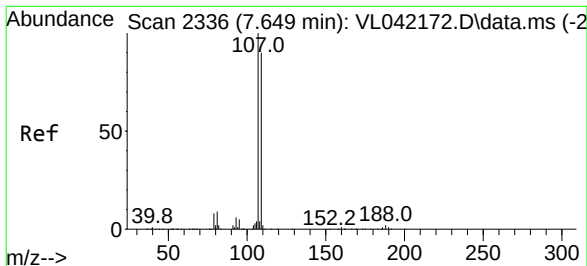
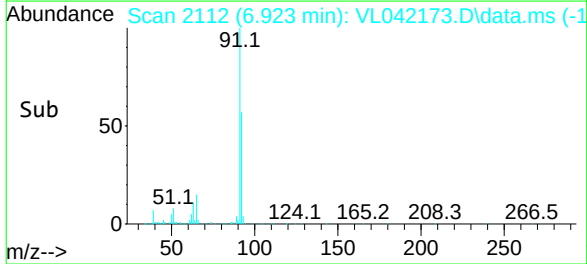
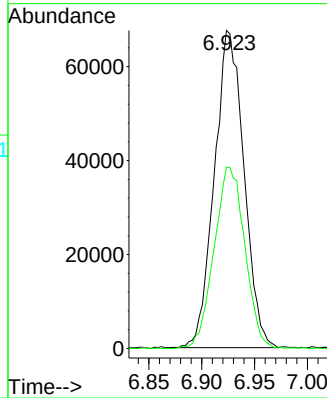
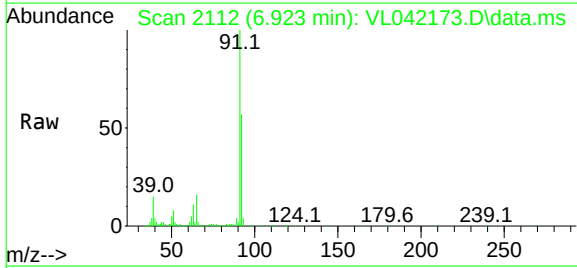
92 59.6 48.4 72.6

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 03/31/2025

Supervised By :Mahesh Dadoda 04/03/2025



#54

1,2-Dibromoethane

Concen: 1.952 ppbv

RT: 7.648 min Scan# 2336

Delta R.T. -0.000 min

Lab File: VL042173.D

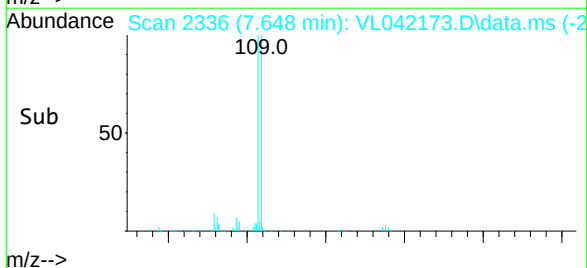
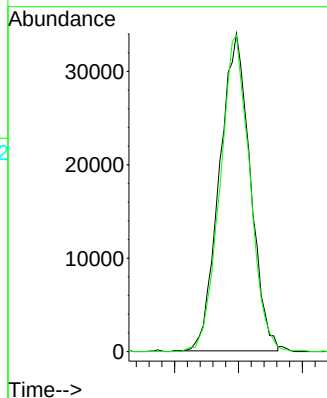
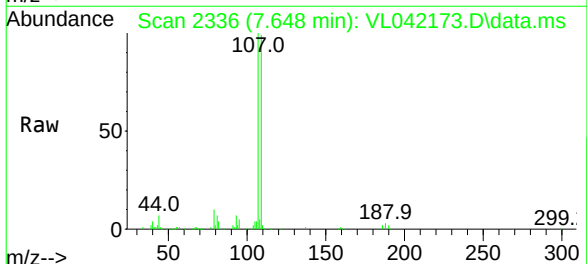
Acq: 27 Mar 2025 08:59

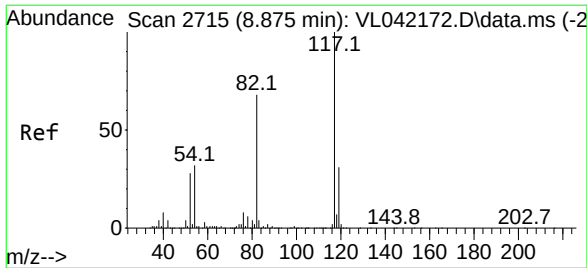
Tgt Ion:107 Resp: 56799

Ion Ratio Lower Upper

107 100

109 99.7 72.2 108.4





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.875 min Scan# 2715

Delta R.T. -0.000 min

Lab File: VL042173.D

Acq: 27 Mar 2025 08:59

Instrument :

MSVOA_L

ClientSampleId :

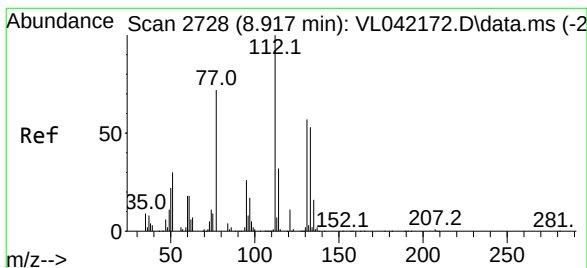
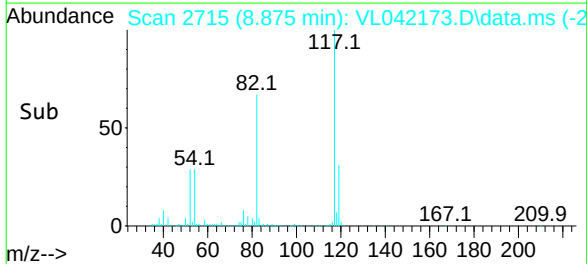
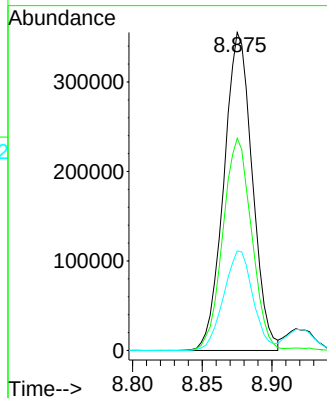
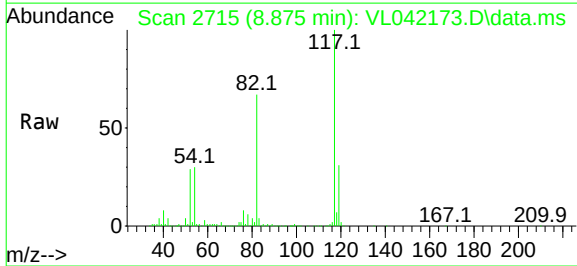
VSTDIC002

Tgt Ion:	117	Resp:	504538
Ion	Ratio	Lower	Upper
117	100		
82	68.2	55.8	83.6
119	33.0	25.5	38.3

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#56

1,1,1,2-Tetrachloroethane

Concen: 2.093 ppbv

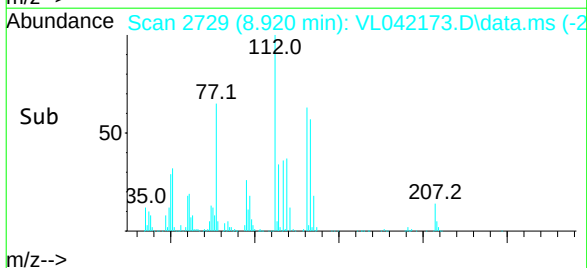
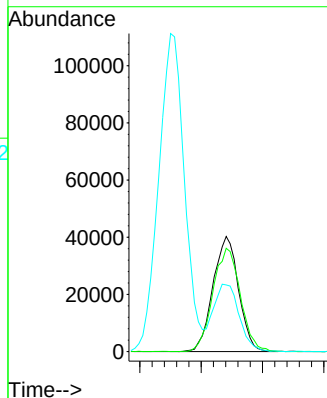
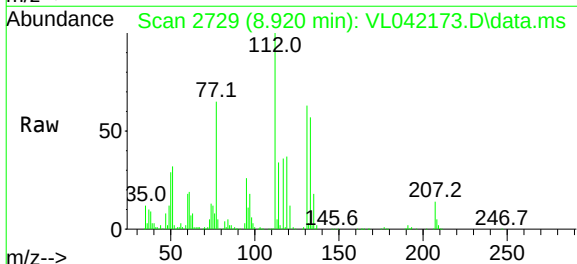
RT: 8.920 min Scan# 2729

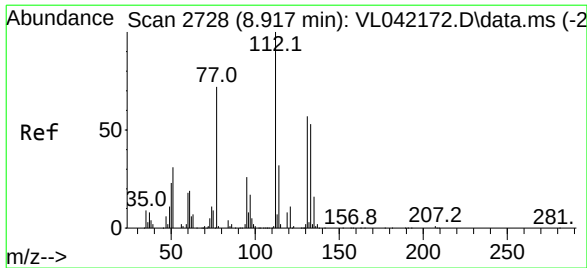
Delta R.T. 0.003 min

Lab File: VL042173.D

Acq: 27 Mar 2025 08:59

Tgt Ion:	131	Resp:	58141
Ion	Ratio	Lower	Upper
131	100		
133	96.6	76.6	114.8
119	58.3	49.8	74.6





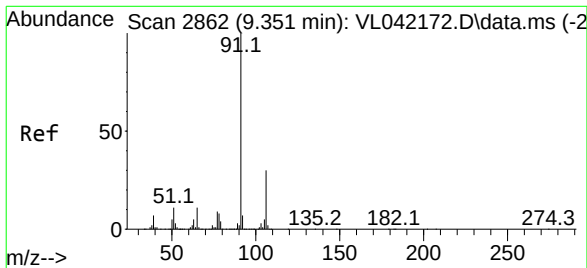
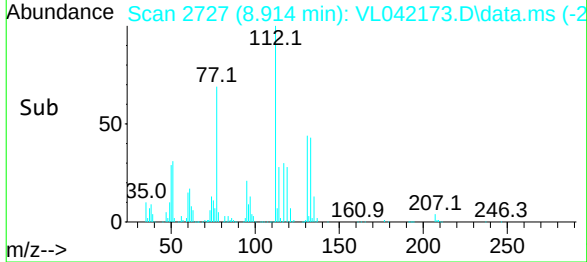
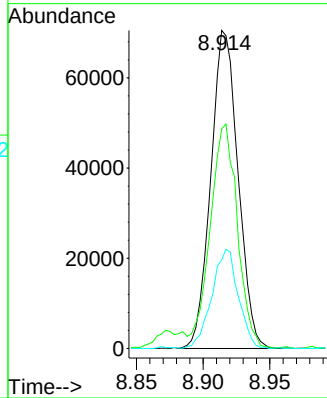
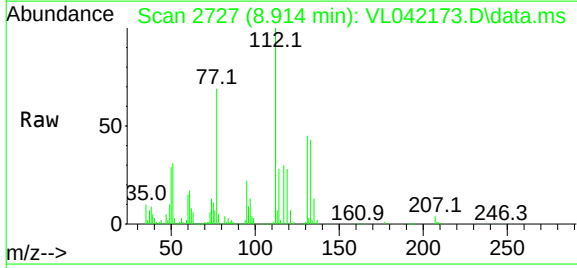
#57
Chlorobenzene
Concen: 2.096 ppbv
RT: 8.914 min Scan# 2728
Delta R.T. -0.003 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tgt Ion: 112 Resp: 100308
Ion Ratio Lower Upper
112 100
77 68.8 58.2 87.2
114 27.8 29.1 35.5#

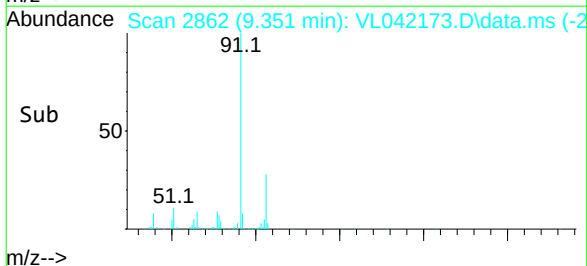
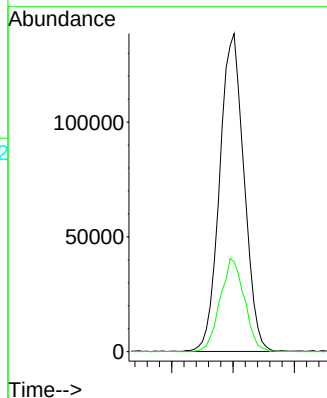
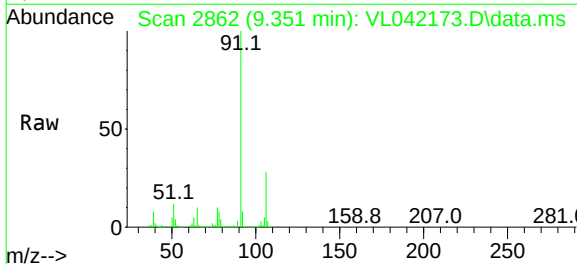
Manual Integrations
APPROVED

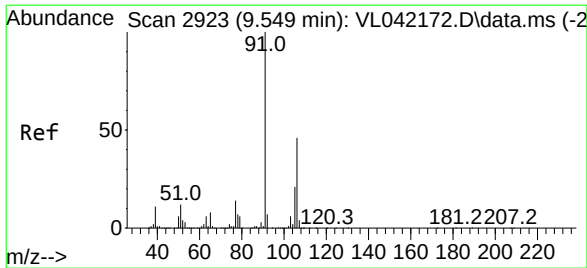
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#58
Ethyl Benzene
Concen: 2.132 ppbv
RT: 9.351 min Scan# 2862
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

Tgt Ion: 91 Resp: 191114
Ion Ratio Lower Upper
91 100
106 28.3 24.2 36.2





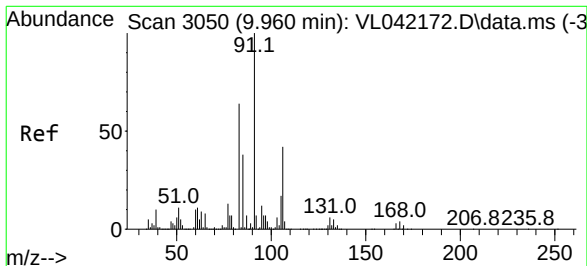
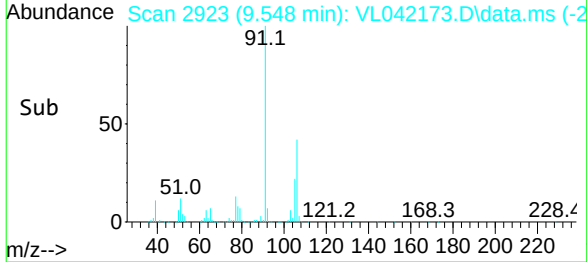
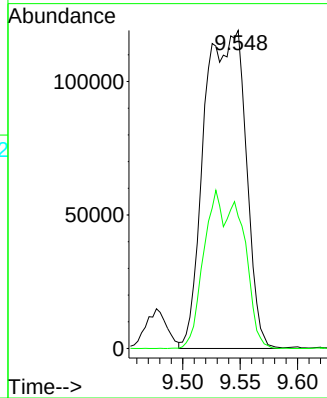
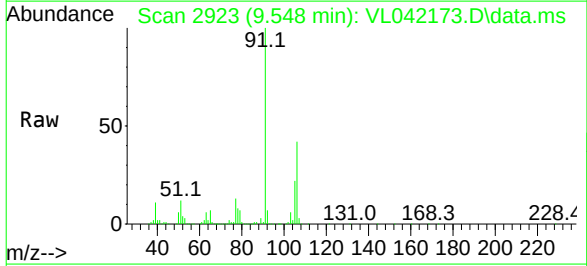
#59
m/p-Xylene
Concen: 4.181 ppbv m
RT: 9.548 min Scan# 29
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion: 91 Resp: 299531
Ion Ratio Lower Upper
91 100
106 0.0 36.4 54.6#

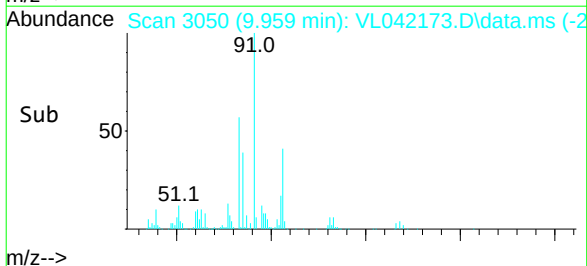
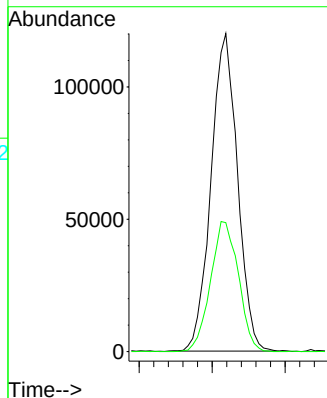
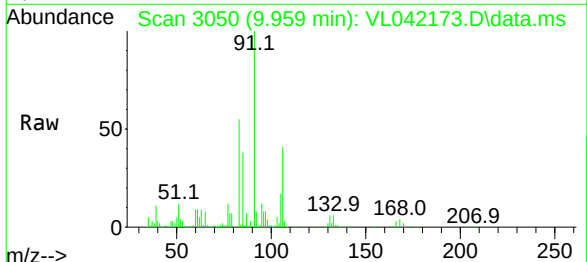
Manual Integrations
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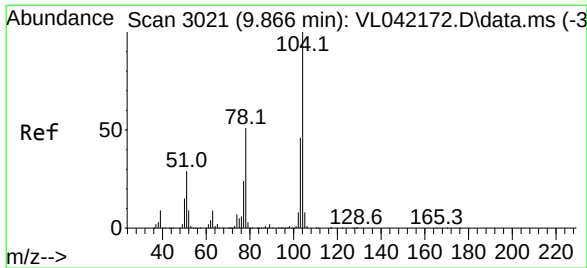
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#60
o-Xylene
Concen: 2.109 ppbv
RT: 9.959 min Scan# 3050
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

Tgt Ion: 91 Resp: 151292
Ion Ratio Lower Upper
91 100
106 43.2 20.8 62.5





#61

Styrene

Concen: 2.089 ppbv

RT: 9.865 min Scan# 3021

Delta R.T. -0.000 min

Lab File: VL042173.D

Acq: 27 Mar 2025 08:59

Instrument :

MSVOA_L

ClientSampleId :

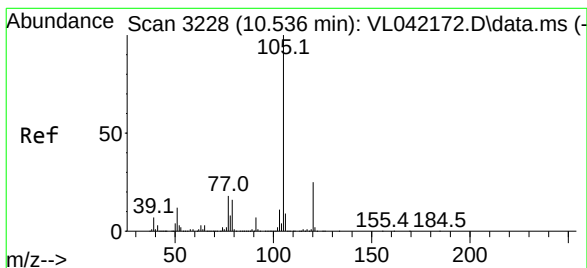
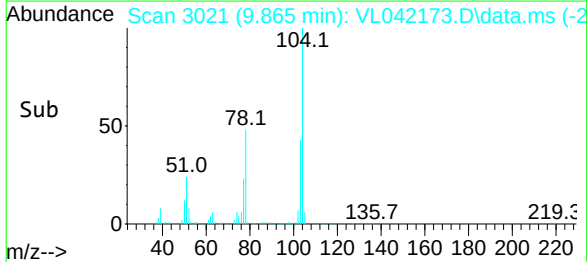
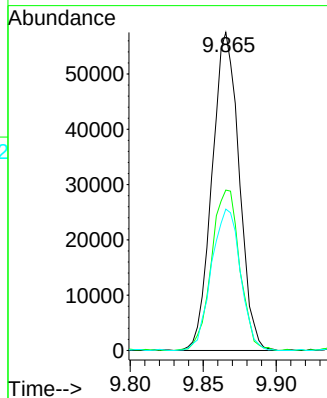
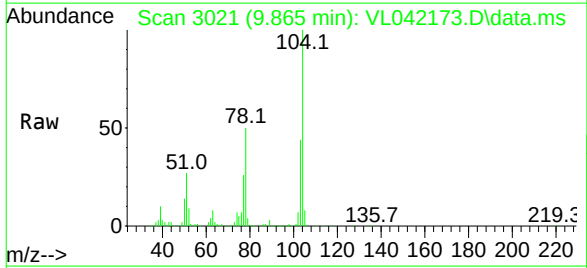
VSTDIC002

Tgt Ion:104 Resp: 74134
 Ion Ratio Lower Upper
 104 100
 78 52.8 41.8 62.6
 103 47.8 37.0 55.4

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 03/31/2025
 Supervised By :Mahesh Dadoda 04/03/2025



#62

Isopropylbenzene

Concen: 2.127 ppbv

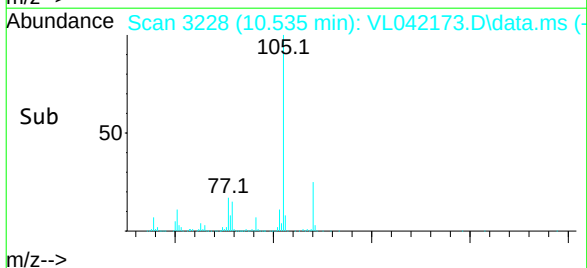
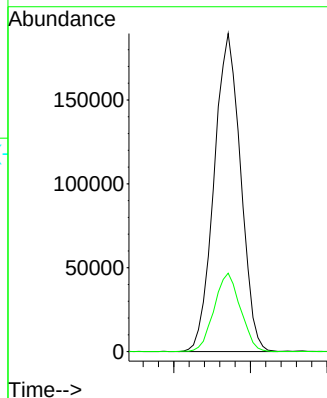
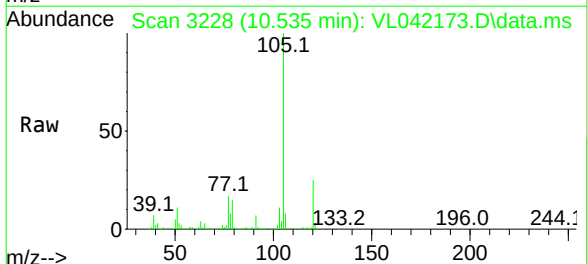
RT: 10.535 min Scan# 3228

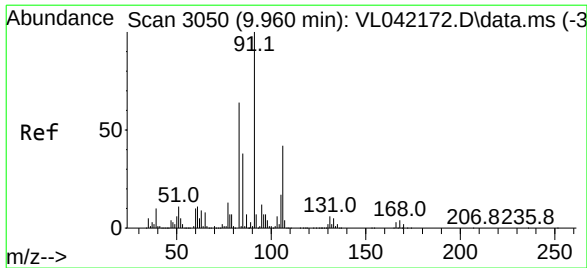
Delta R.T. -0.000 min

Lab File: VL042173.D

Acq: 27 Mar 2025 08:59

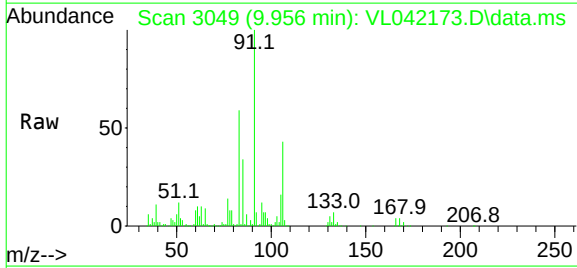
Tgt Ion:105 Resp: 228191
 Ion Ratio Lower Upper
 105 100
 120 24.4 19.9 29.9





#63
1,1,2,2-Tetrachloroethane
Concen: 2.067 ppbv
RT: 9.956 min Scan# 3049
Delta R.T. -0.003 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

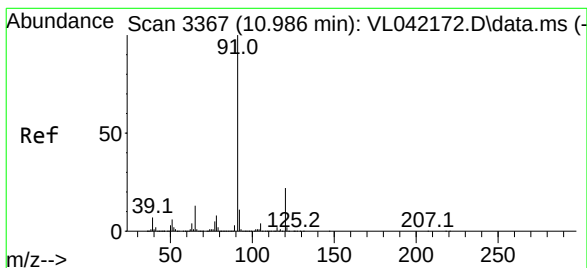
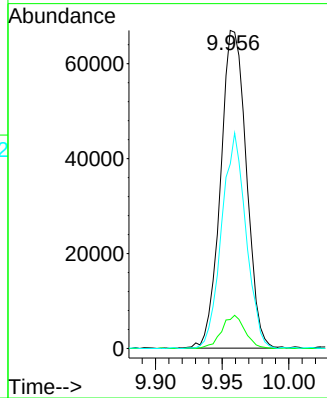
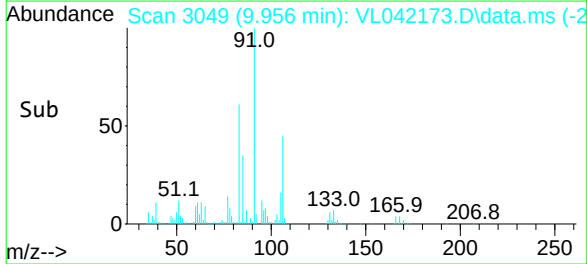
Instrument : MSVOA_L
ClientSampleId : VSTDIC002



Tgt Ion: 83 Resp: 90114
Ion Ratio Lower Upper
83 100
131 9.5 4.8 14.4
85 64.4 32.5 97.5

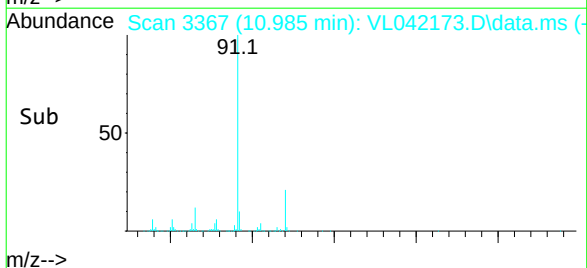
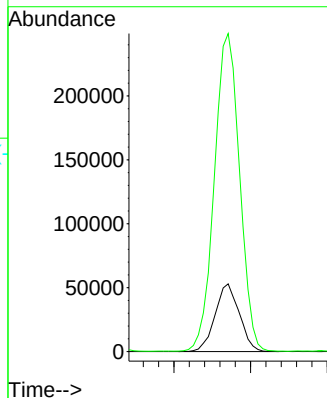
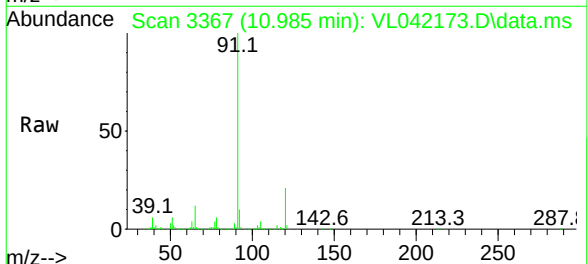
Manual Integrations
APPROVED

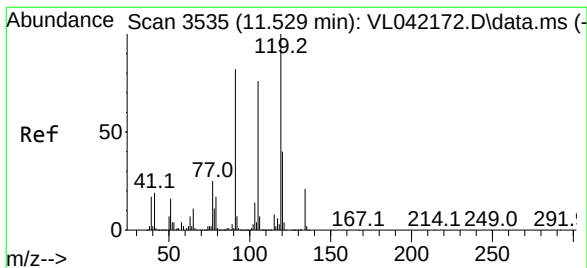
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#64
n-propylbenzene
Concen: 2.104 ppbv
RT: 10.985 min Scan# 3367
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

Tgt Ion:120 Resp: 58105
Ion Ratio Lower Upper
120 100
91 491.1 376.9 565.3





#65

tert-Butylbenzene

Concen: 2.180 ppbv

RT: 11.529 min Scan# 3535

Delta R.T. -0.000 min

Lab File: VL042173.D

Acq: 27 Mar 2025 08:59

Instrument :

MSVOA_L

ClientSampleId :

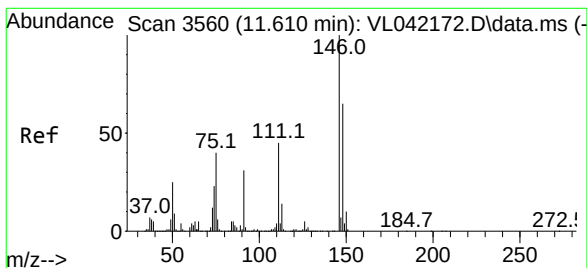
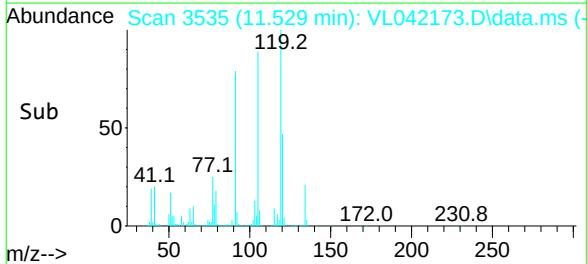
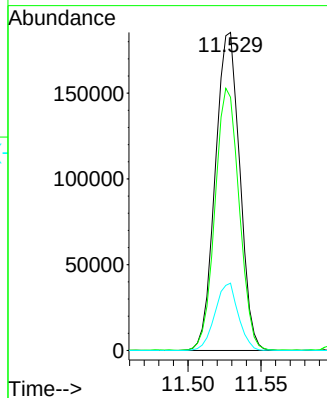
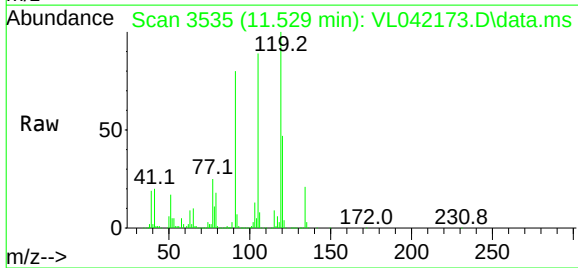
VSTDIC002

Tgt Ion:	119	Resp:	216336
Ion Ratio	Lower	Upper	
119	100		
91	81.5	66.0	99.0
134	20.2	16.7	25.1

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#66

Benzyl Chloride

Concen: 2.116 ppbv

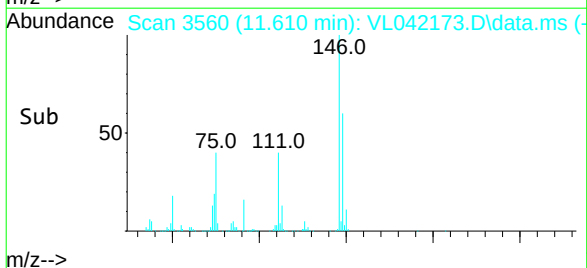
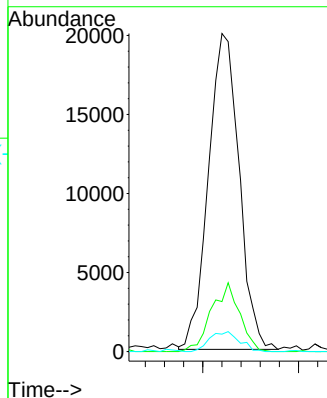
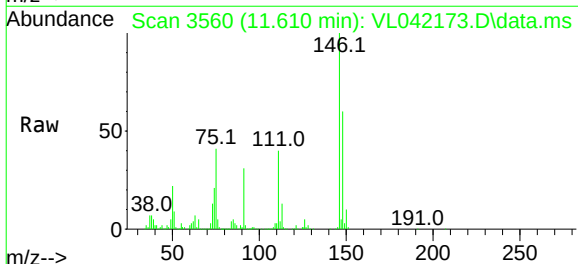
RT: 11.610 min Scan# 3560

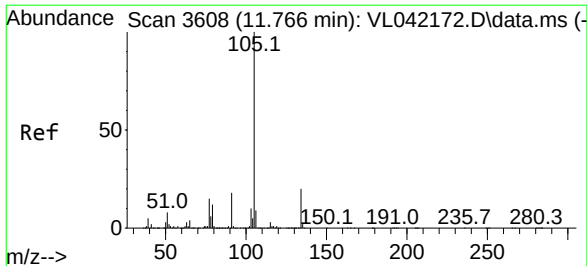
Delta R.T. -0.000 min

Lab File: VL042173.D

Acq: 27 Mar 2025 08:59

Tgt Ion:	91	Resp:	22272
Ion Ratio	Lower	Upper	
91	100		
126	20.0	13.8	20.6
128	6.5	4.5	6.7





#67

sec-Butylbenzene

Concen: 2.156 ppbv

RT: 11.762 min Scan# 3608

Delta R.T. -0.003 min

Lab File: VL042173.D

Acq: 27 Mar 2025 08:59

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tgt Ion: 105 Resp: 297381

Ion Ratio Lower Upper

105 100

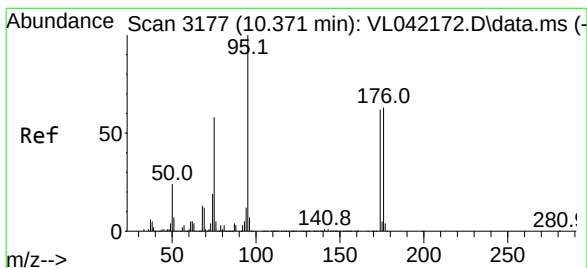
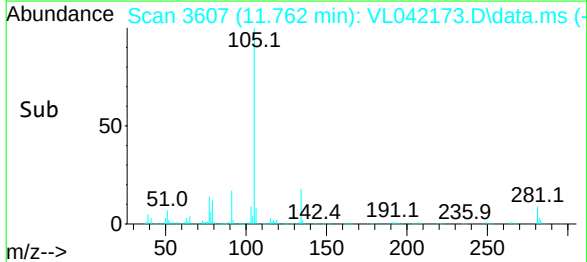
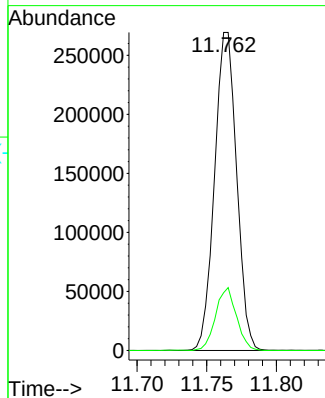
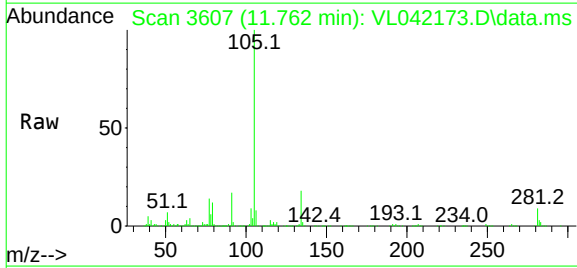
134 18.8 15.5 23.3

Manual Integrations

APPROVED

Reviewed By : Semsettin Yesilyurt 03/31/2025

Supervised By : Mahesh Dadoda 04/03/2025



#68

1-Bromo-4-Fluorobenzene

Concen: 10.077 ppbv

RT: 10.370 min Scan# 3177

Delta R.T. -0.000 min

Lab File: VL042173.D

Acq: 27 Mar 2025 08:59

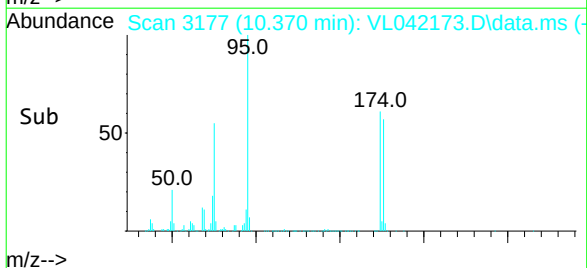
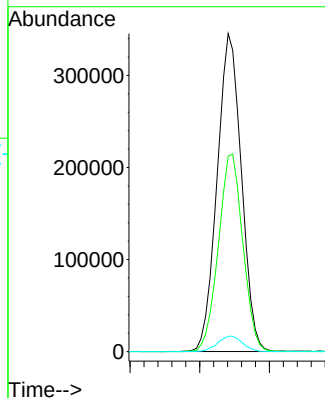
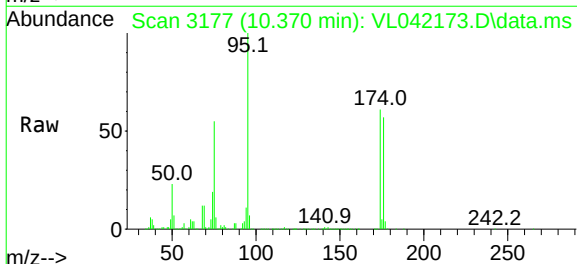
Tgt Ion: 95 Resp: 417532

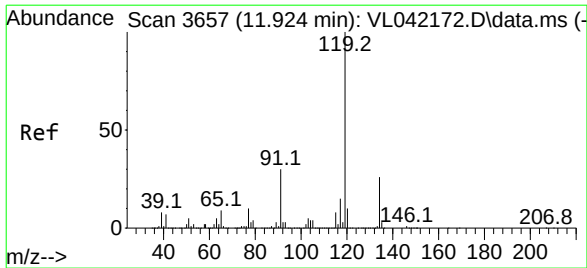
Ion Ratio Lower Upper

95 100

174 62.6 50.6 76.0

175 5.0 3.8 5.6





#69

p-Isopropyltoluene

Concen: 2.176 ppbv

RT: 11.921 min Scan# 3657

Delta R.T. -0.003 min

Lab File: VL042173.D

Acq: 27 Mar 2025 08:59

Instrument :

MSVOA_L

ClientSampleId :

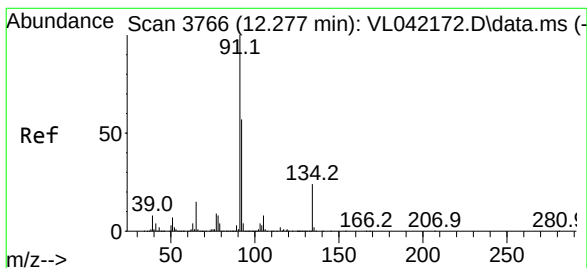
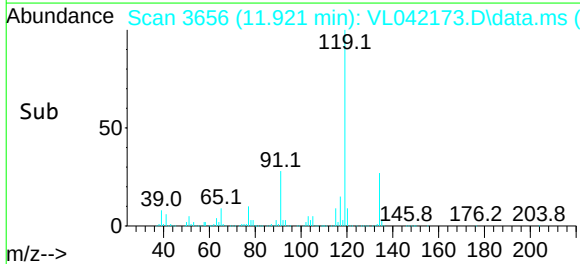
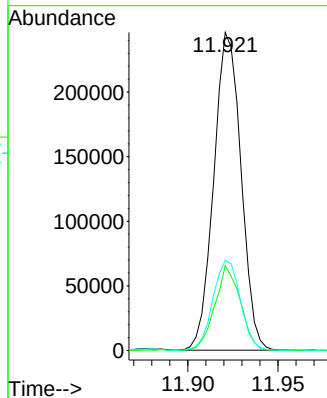
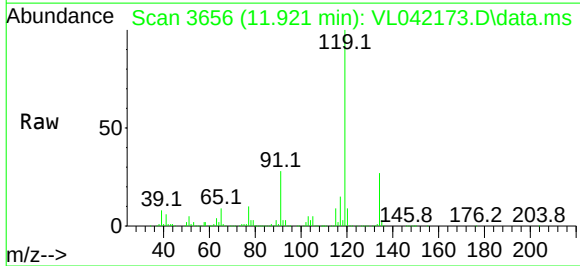
VSTDICC002

Tgt Ion:	119	Resp:	258357
Ion	Ratio	Lower	Upper
119	100		
134	25.2	20.4	30.6
91	29.5	23.7	35.5

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#70

n-Butylbenzene

Concen: 2.228 ppbv

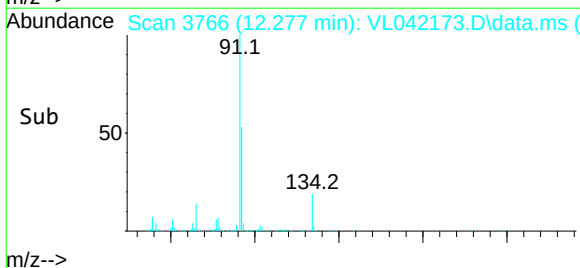
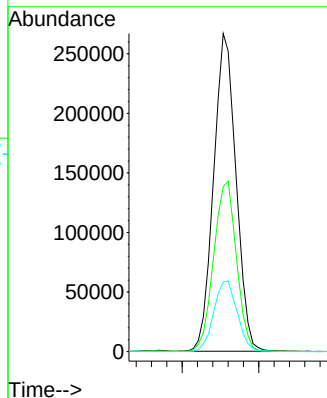
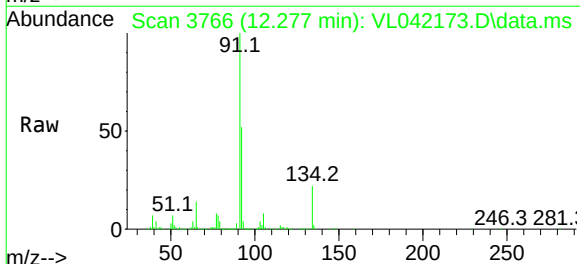
RT: 12.277 min Scan# 3766

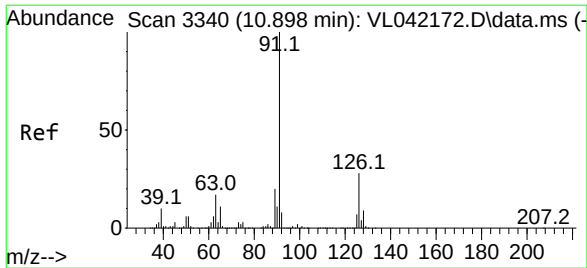
Delta R.T. -0.000 min

Lab File: VL042173.D

Acq: 27 Mar 2025 08:59

Tgt Ion:	91	Resp:	270616
Ion	Ratio	Lower	Upper
91	100		
92	55.1	44.9	67.3
134	23.3	19.2	28.8





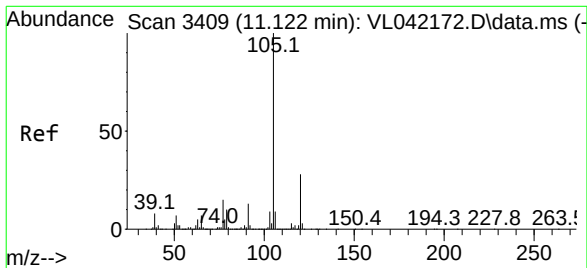
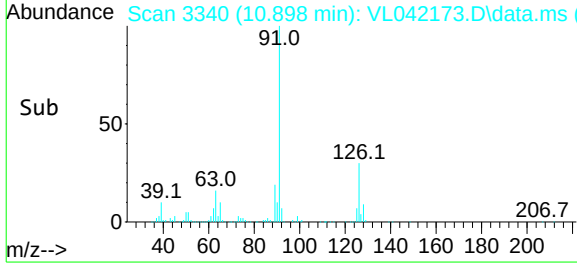
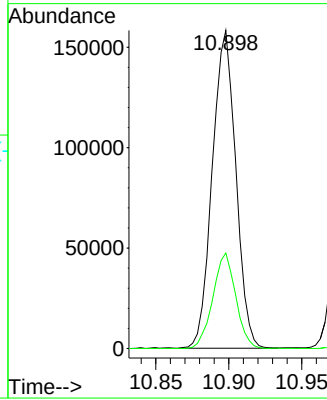
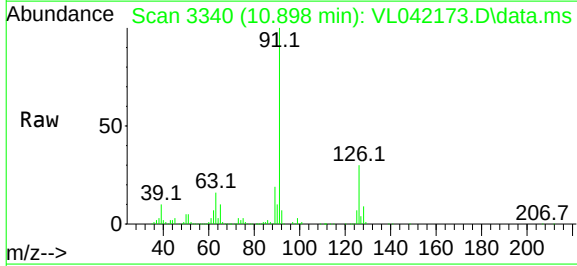
#71
2-Chlorotoluene
Concen: 2.132 ppbv
RT: 10.898 min Scan# 3340
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

Instrument : MSVOA_L
ClientSampleId : VSTDICC002

Tgt Ion: 91 Resp: 177487
Ion Ratio Lower Upper
91 100
126 29.2 11.6 46.4

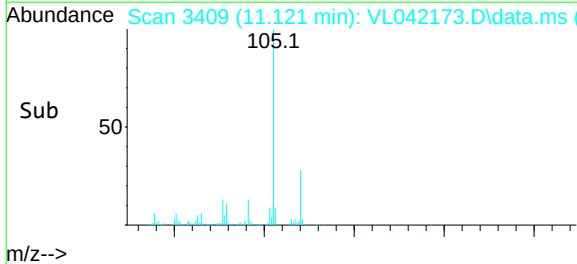
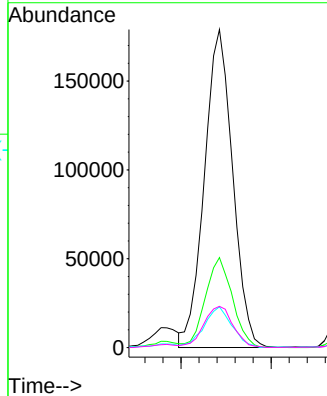
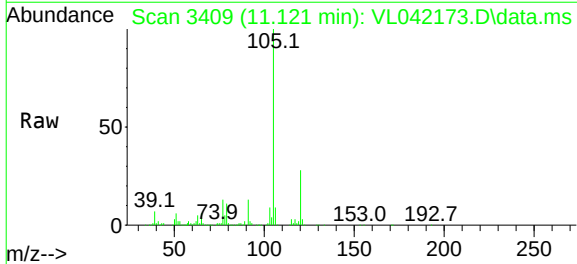
Manual Integrations
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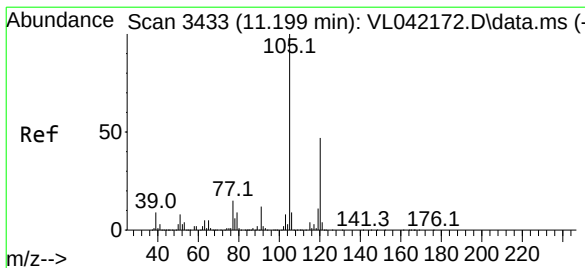
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#72
4-Ethyltoluene
Concen: 2.179 ppbv
RT: 11.121 min Scan# 3409
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

Tgt Ion:105 Resp: 194660
Ion Ratio Lower Upper
105 100
120 29.1 23.4 35.0
91 13.7 10.3 15.5
77 14.7 11.4 17.2





#73

1,3,5-Trimethylbenzene

Concen: 2.169 ppbv

RT: 11.199 min Scan# 3433

Delta R.T. -0.000 min

Lab File: VL042173.D

Acq: 27 Mar 2025 08:59

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tgt Ion:105 Resp: 169221

Ion Ratio Lower Upper

105 100

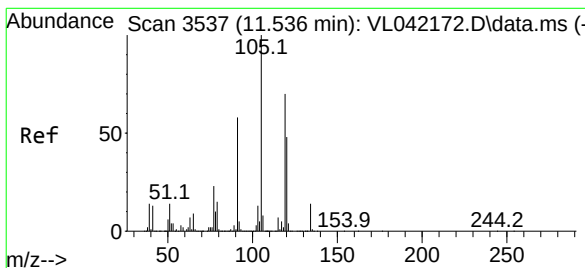
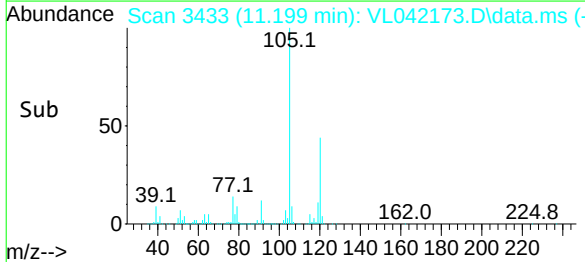
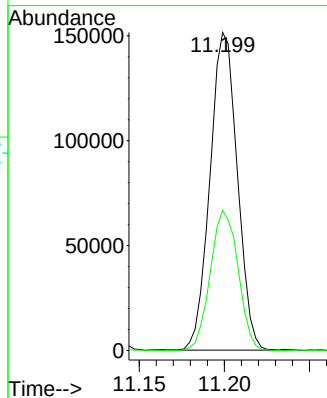
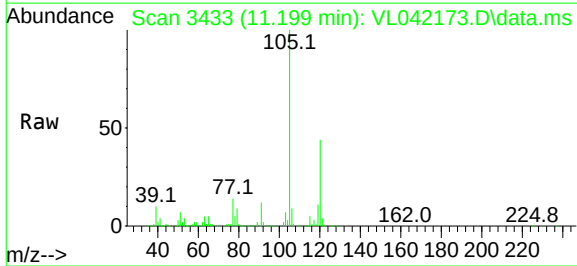
120 44.0 37.4 56.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 03/31/2025

Supervised By :Mahesh Dadoda 04/03/2025



#74

1,2,4-Trimethylbenzene

Concen: 2.207 ppbv

RT: 11.532 min Scan# 3536

Delta R.T. -0.003 min

Lab File: VL042173.D

Acq: 27 Mar 2025 08:59

Tgt Ion:105 Resp: 198351

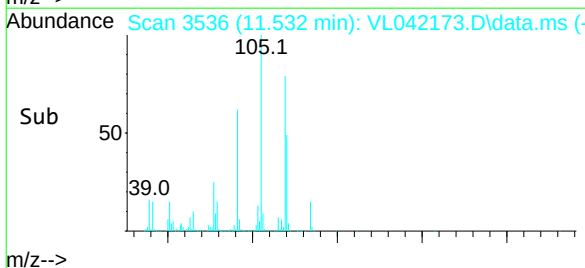
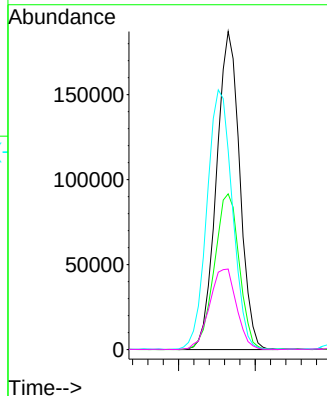
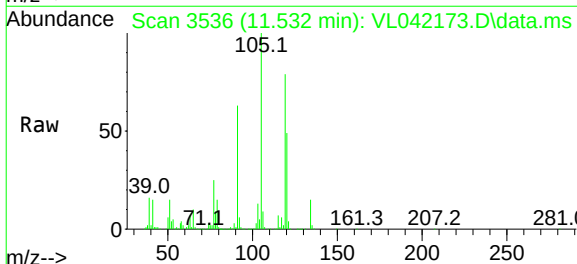
Ion Ratio Lower Upper

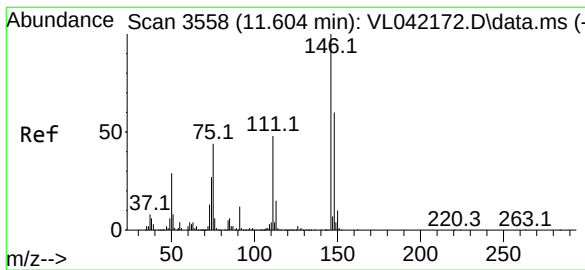
105 100

120 49.0 38.6 58.0

91 62.4 46.2 69.2

77 25.3 18.6 27.8





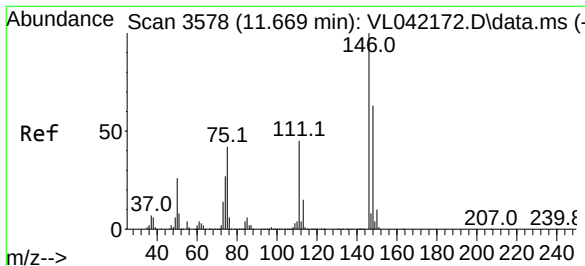
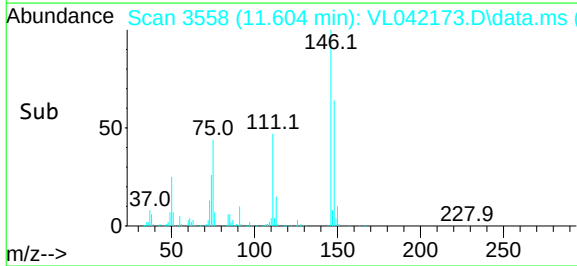
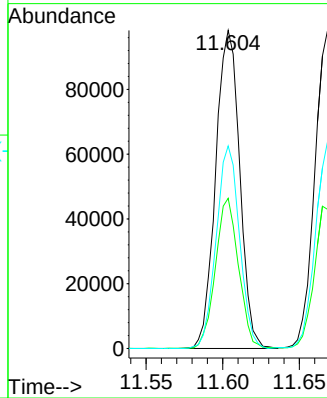
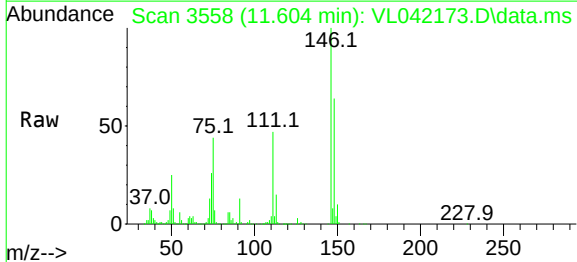
#75
1,3-Dichlorobenzene
Concen: 2.175 ppbv
RT: 11.604 min Scan# 3558
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion:146 Resp: 107217
Ion Ratio Lower Upper
146 100
111 45.5 23.8 71.2
148 61.6 31.9 95.9

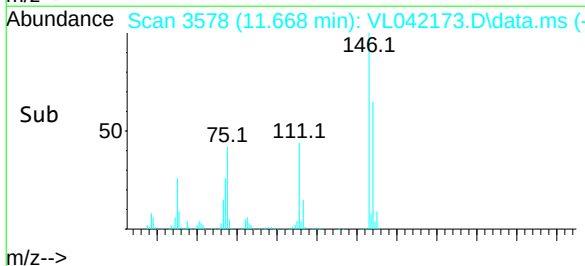
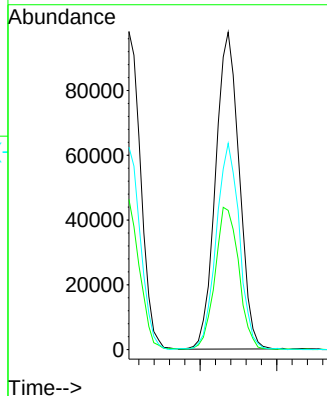
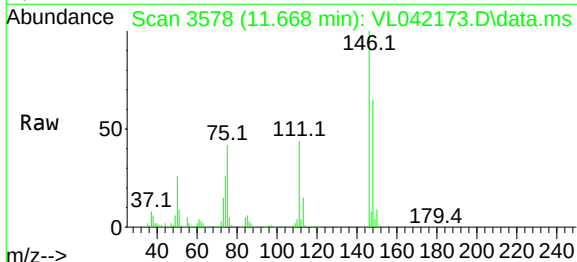
Manual Integrations
APPROVED

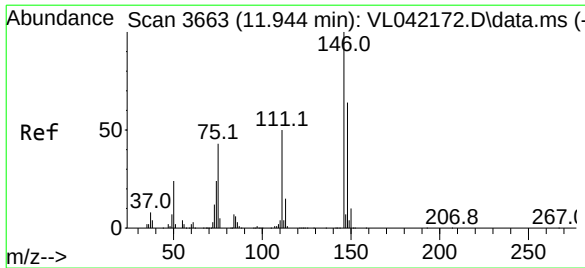
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#76
1,4-Dichlorobenzene
Concen: 2.139 ppbv
RT: 11.668 min Scan# 3578
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

Tgt Ion:146 Resp: 104925
Ion Ratio Lower Upper
146 100
111 45.3 23.0 69.0
148 64.0 31.9 95.7





#77

1,2-Dichlorobenzene

Concen: 2.132 ppbv

RT: 11.943 min Scan# 3663

Delta R.T. -0.000 min

Lab File: VL042173.D

Acq: 27 Mar 2025 08:59

Instrument :

MSVOA_L

ClientSampleId :

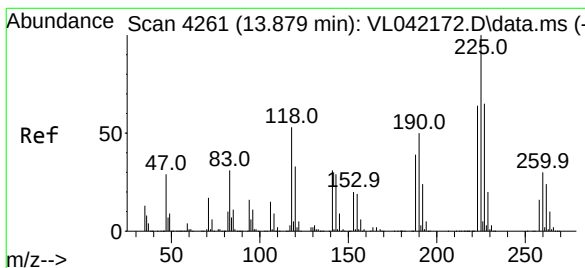
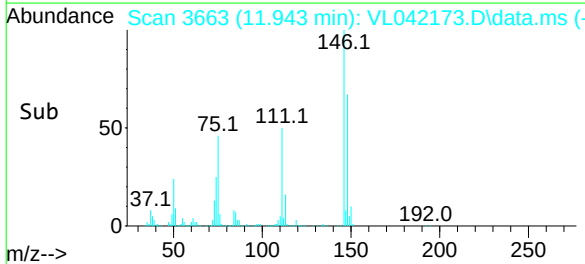
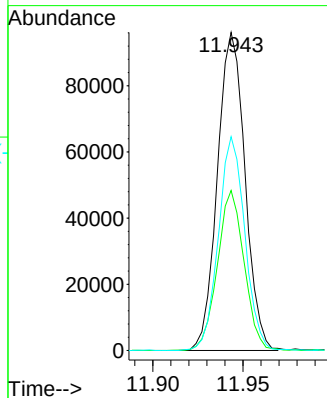
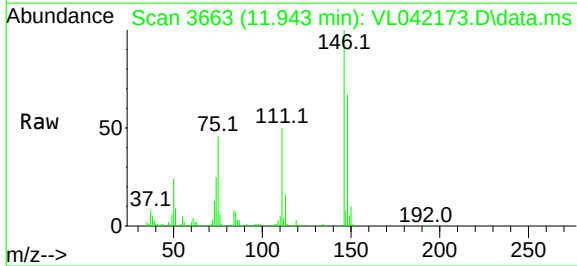
VSTDICC002

Tgt Ion:	146	Resp:	102310
Ion	Ratio	Lower	Upper
146	100		
111	48.8	24.8	74.3
148	64.6	31.6	94.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#78

Hexachloro-1,3-Butadiene

Concen: 2.242 ppbv

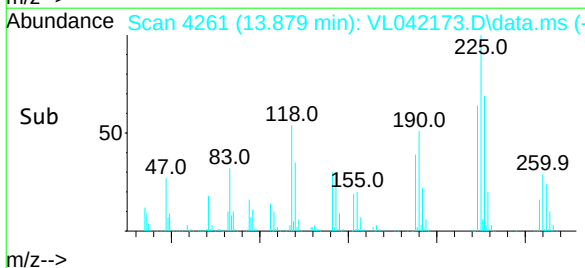
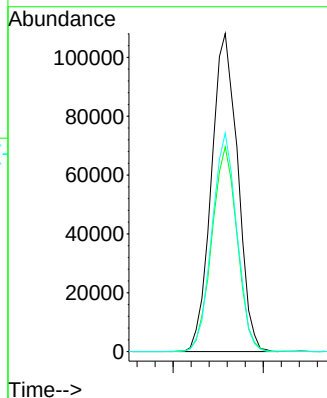
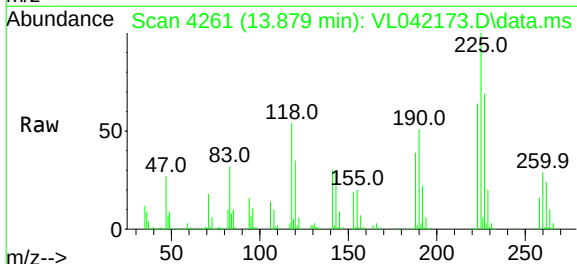
RT: 13.879 min Scan# 4261

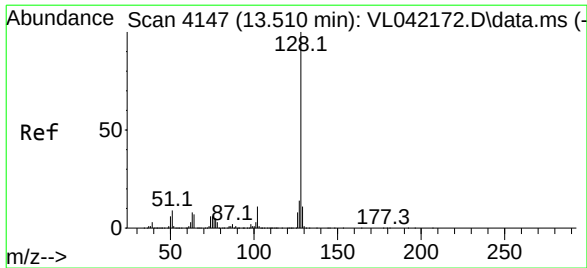
Delta R.T. -0.000 min

Lab File: VL042173.D

Acq: 27 Mar 2025 08:59

Tgt Ion:	225	Resp:	109539
Ion	Ratio	Lower	Upper
225	100		
223	62.2	50.6	76.0
227	64.9	51.2	76.8





#79

Naphthalene

Concen: 2.375 ppbv

RT: 13.510 min Scan# 4147

Delta R.T. -0.000 min

Lab File: VL042173.D

Acq: 27 Mar 2025 08:59

Instrument :

MSVOA_L

ClientSampleId :

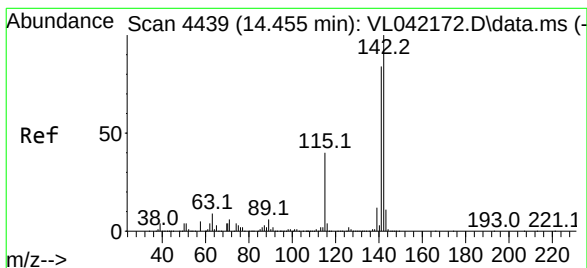
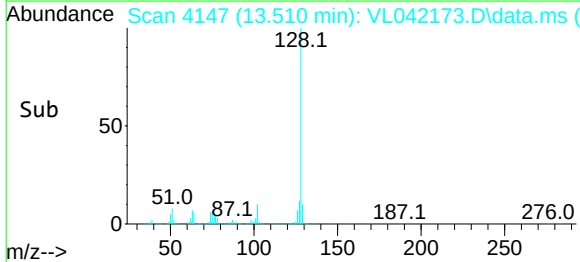
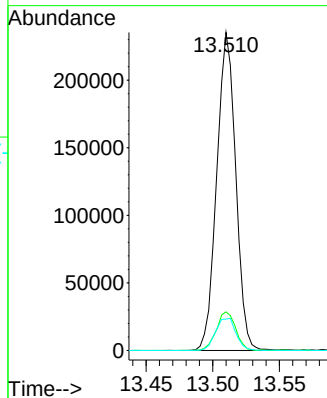
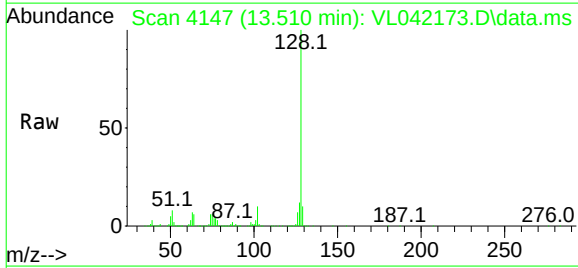
VSTDICC002

Tgt Ion:	128	Resp:	233451
Ion Ratio	Lower	Upper	
128	100		
127	12.1	10.8	16.2
129	9.9	9.0	13.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#80

Naphthalene, 2-methyl-

Concen: 2.451 ppbv

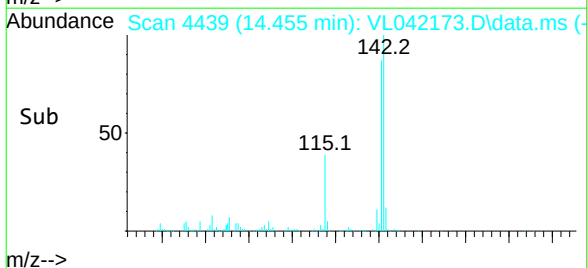
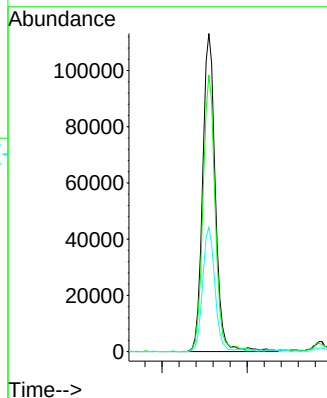
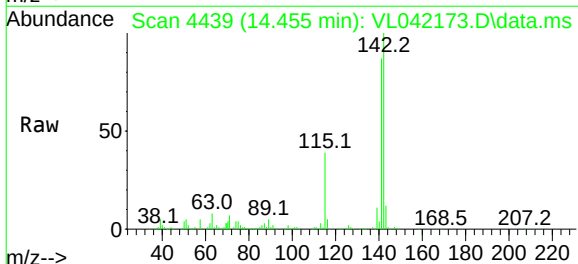
RT: 14.455 min Scan# 4439

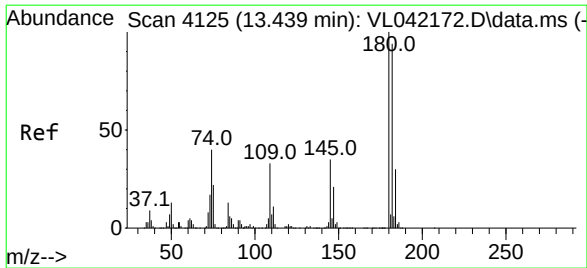
Delta R.T. -0.000 min

Lab File: VL042173.D

Acq: 27 Mar 2025 08:59

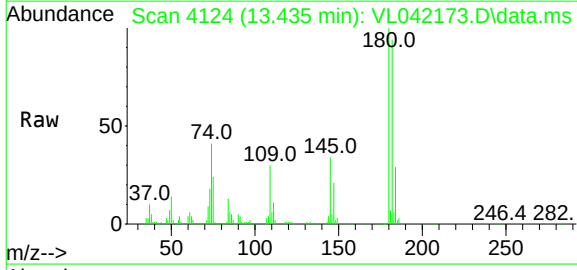
Tgt Ion:	142	Resp:	117313
Ion Ratio	Lower	Upper	
142	100		
141	83.5	66.3	99.5
115	38.5	31.6	47.4





#81
 1,2,4-Trichlorobenzene
 Concen: 2.288 ppbv
 RT: 13.435 min Scan# 41
 Delta R.T. -0.003 min
 Lab File: VL042173.D
 Acq: 27 Mar 2025 08:59

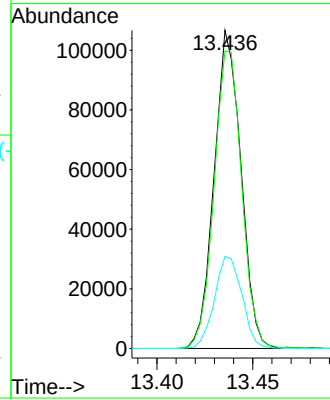
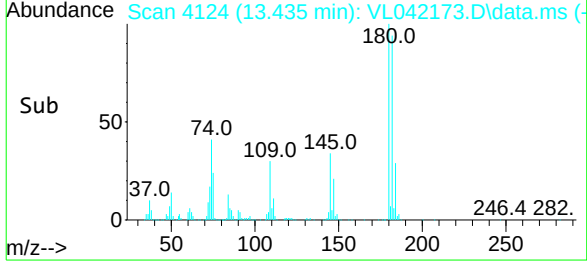
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC002



Tgt Ion:	180	Resp:	103765
Ion Ratio	Lower	Upper	
180	100		
182	97.0	75.1	112.7
184	29.6	24.4	36.6

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 03/31/2025
 Supervised By :Mahesh Dadoda 04/03/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
 Data File : VL042174.D
 Acq On : 27 Mar 2025 09:30
 Operator : SY/MD
 Sample : VSTDICC001
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC001

Manual Integrations
 APPROVED

Quant Time: Mar 28 01:33:49 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M

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

QLast Update : Fri Mar 28 01:31:23 2025

Response via : Initial Calibration

Reviewed By : Semsettin Yesilyurt 03/31/2025
 Supervised By : Mahesh Dadoda 04/03/2025

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

Internal Standards						
1) Bromochloromethane	2.784	49	186244	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.952	114	537244	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.879	117	499830	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.371	95	404753	9.861	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.600%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.496	85	28203	1.026	ppbv	99
3) Chlorodifluoromethane	1.473	51	28693	1.021	ppbv	94
4) Chloromethane	1.531	50	11111	0.989	ppbv	99
5) Vinyl Chloride	1.577	62	10723	0.936	ppbv	98
6) Bromomethane	1.667	94	4984	0.979	ppbv	97
7) Chloroethane	1.703	64	4622	1.025	ppbv	100
8) Dichlorotetrafluoroethane	1.554	85	23886	1.020	ppbv	98
9) Propene	1.483	41	13699m	1.082	ppbv	
10) Heptane	4.975	43	36132	1.055	ppbv	100
11) Trichlorofluoromethane	1.875	101	27136	1.014	ppbv	96
12) 1,1,2-Trichlorotrifluo...	2.137	101	22629	1.029	ppbv	99
13) Ethanol	1.719	45	1610m	1.624	ppbv	
14) Bromoethene	1.781	108	8330	0.989	ppbv #	82
15) Acetone	1.836	43	29294	1.125	ppbv	95
16) 1,3-Butadiene	1.606	39	13133	1.121	ppbv	97
17) tert-Butyl alcohol	2.040	59	33500	1.033	ppbv	97
18) 1,1-Dichloroethene	2.033	96	10532	1.024	ppbv	89
19) Isopropyl Alcohol	1.884	45	14903	1.014	ppbv #	38
20) Methylene Chloride	2.059	84	10481	1.080	ppbv	93
21) Allyl Chloride	2.095	41	19039	1.036	ppbv	99
22) trans-1,2-Dichloroethene	2.341	96	13051m	1.086	ppbv	
23) Vinyl Acetate	2.464	43	12883m	1.190	ppbv	
24) 1,1-Dichloroethane	2.409	63	22505	1.022	ppbv	99
25) Ethyl Acetate	2.836	43	67402	0.997	ppbv #	96
26) Hexane	2.823	57	27223	1.043	ppbv	98
27) Carbon Disulfide	2.146	76	28167	1.006	ppbv #	47
28) Methyl tert-Butyl Ether	2.441	73	16501	1.015	ppbv	95
29) Chloroform	2.845	83	38516	1.008	ppbv	96
30) Cyclohexane	3.852	84	23052	1.016	ppbv	97
31) cis-1,2-Dichloroethene	2.716	61	27187	1.026	ppbv	89
32) 1,1,1-Trichloroethane	3.363	97	40993	0.938	ppbv	99
34) 2-Butanone	2.557	43	41423	1.063	ppbv	98
35) Carbon Tetrachloride	3.758	117	39345	0.952	ppbv	93
36) Benzene	3.651	78	55156	1.036	ppbv	94
37) 1,2-Dichloroethane	3.218	62	30543	1.002	ppbv	98
38) Trichloroethene	4.545	130	21906	0.985	ppbv	93
39) 1,2-Dichloropropane	4.312	63	20020	1.032	ppbv	99
40) 1,4-Dioxane	4.593	88	10592m	1.052	ppbv	
41) Tetrahydrofuran	3.056	42	22818	1.029	ppbv	97
42) Bromodichloromethane	4.483	83	41864	0.996	ppbv	90
43) Methyl Methacrylate	4.875	69	24233m	1.078	ppbv	
44) 2,2,4-Trimethylpentane	4.632	57	90727	1.008	ppbv	96
45) t-1,3-Dichloropropene	6.403	75	23993m	0.992	ppbv	

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
 Data File : VL042174.D
 Acq On : 27 Mar 2025 09:30
 Operator : SY/MD
 Sample : VSTDICC001
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC001

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 03/31/2025
 Supervised By : Mahesh Dadoda 04/03/2025

Quant Time: Mar 28 01:33:49 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M

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

QLast Update : Fri Mar 28 01:31:23 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.593	75	30063	1.014	ppbv	93
47) 1,1,2-Trichloroethane	6.577	97	20546	1.002	ppbv	96
48) Dibromochloromethane	7.383	129	34425	0.991	ppbv	100
49) Bromoform	9.481	173	31610	1.013	ppbv	98
50) 4-Methyl-2-Pentanone	5.752	43	65226m	1.056	ppbv	
51) 2-Hexanone	7.438	43	54680	1.067	ppbv #	100
52) Tetrachloroethene	8.222	164	19415	0.919	ppbv	95
53) Toluene	6.927	91	64612	1.023	ppbv	99
54) 1,2-Dibromoethane	7.652	107	28879	1.009	ppbv	95
56) 1,1,1,2-Tetrachloroethane	8.924	131	28764	1.045	ppbv #	87
57) Chlorobenzene	8.917	112	48930	1.032	ppbv	93
58) Ethyl Benzene	9.348	91	91086	1.026	ppbv	97
59) m/p-Xylene	9.529	91	147162m	2.073	ppbv	
60) o-Xylene	9.960	91	73702	1.037	ppbv	96
61) Styrene	9.866	104	36110	1.027	ppbv	97
62) Isopropylbenzene	10.536	105	109897	1.034	ppbv	98
63) 1,1,2,2-Tetrachloroethane	9.960	83	44431	1.029	ppbv	99
64) n-propylbenzene	10.986	120	29054	1.062	ppbv	98
65) tert-Butylbenzene	11.526	119	103520	1.053	ppbv	96
66) Benzyl Chloride	11.614	91	10660	1.022	ppbv #	93
67) sec-Butylbenzene	11.762	105	149660	1.095	ppbv	97
69) p-Isopropyltoluene	11.921	119	127509	1.084	ppbv	99
70) n-Butylbenzene	12.280	91	129860	1.079	ppbv	99
71) 2-Chlorotoluene	10.898	91	86356	1.047	ppbv	100
72) 4-Ethyltoluene	11.122	105	92912	1.050	ppbv	99
73) 1,3,5-Trimethylbenzene	11.199	105	83497	1.080	ppbv	92
74) 1,2,4-Trimethylbenzene	11.533	105	97858	1.099	ppbv	94
75) 1,3-Dichlorobenzene	11.604	146	51096	1.046	ppbv	99
76) 1,4-Dichlorobenzene	11.669	146	50841	1.046	ppbv	99
77) 1,2-Dichlorobenzene	11.944	146	51523	1.084	ppbv	99
78) Hexachloro-1,3-Butadiene	13.879	225	55611	1.149	ppbv	97
79) Naphthalene	13.510	128	109031	1.120	ppbv	99
80) Naphthalene,2-methyl-	14.455	142	44518	0.939	ppbv	99
81) 1,2,4-Trichlorobenzene	13.436	180	47040	1.047	ppbv	98

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

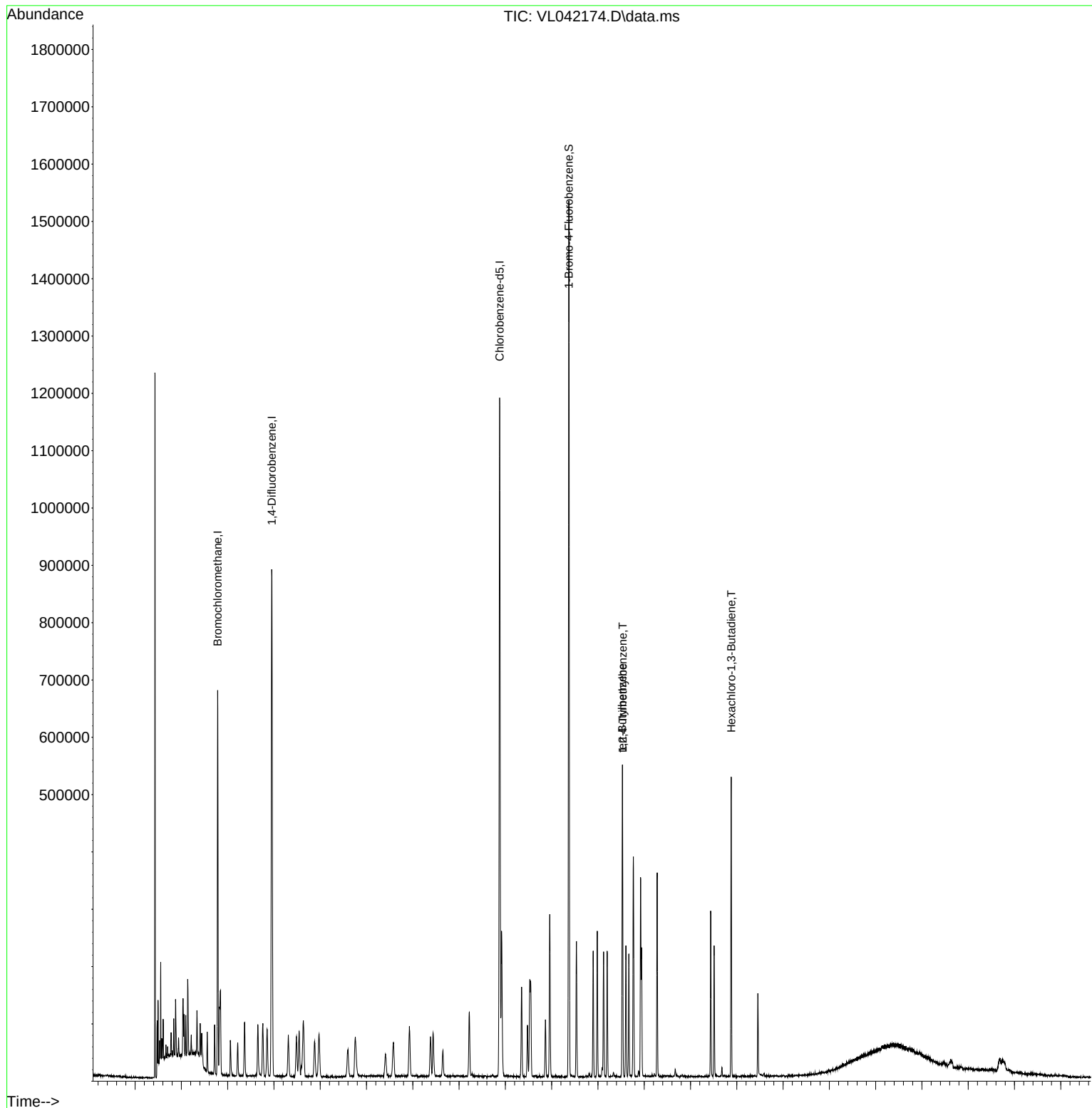
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Data File : VL042174.D
Acq On : 27 Mar 2025 09:30
Operator : SY/MD
Sample : VSTDICC001
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

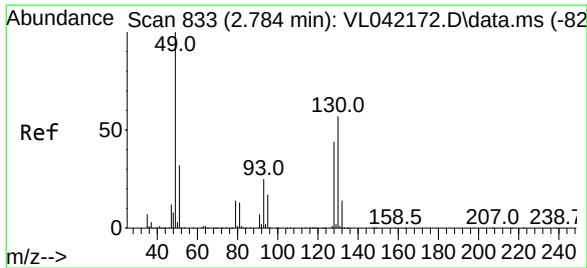
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

Reviewed By : Semsettin Yesilyurt 03/31/2025
Supervised By : Mahesh Dadoda 04/03/2025

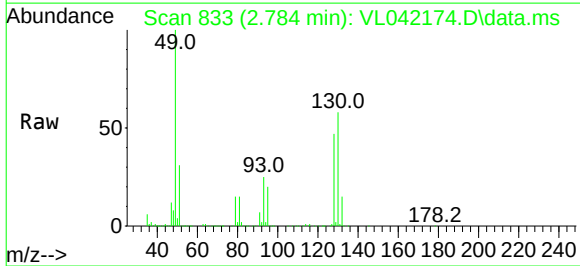
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Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Fri Mar 28 01:31:23 2025
Response via : Initial Calibration





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 833
Delta R.T. 0.000 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

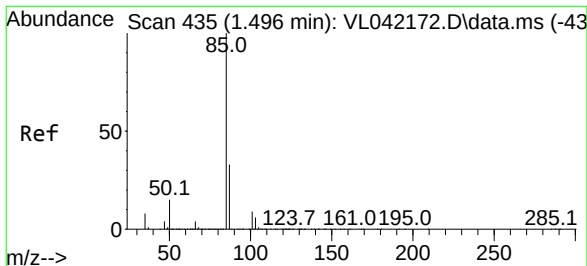
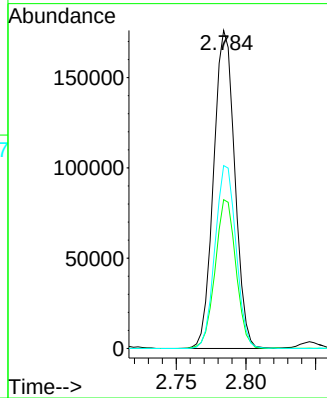
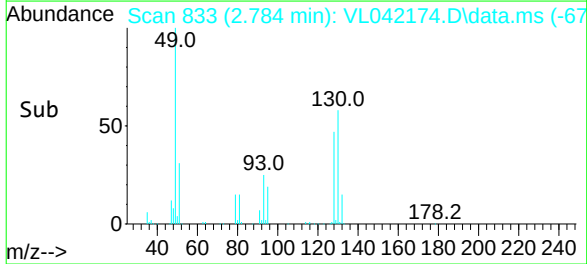
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001



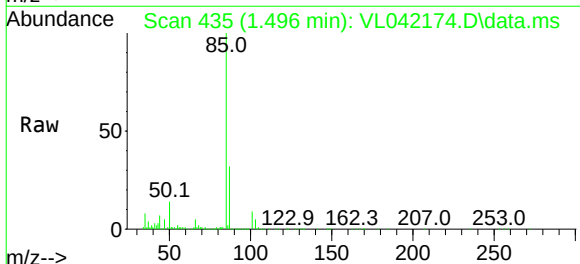
Tgt Ion: 49 Resp: 186244
Ion Ratio Lower Upper
49 100
128 46.2 22.9 68.5
130 57.0 28.8 86.4

Manual Integrations
APPROVED

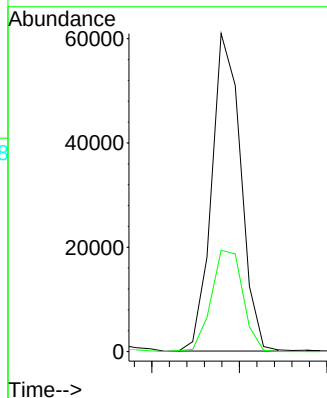
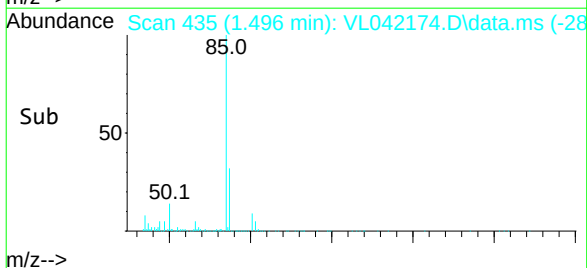
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025

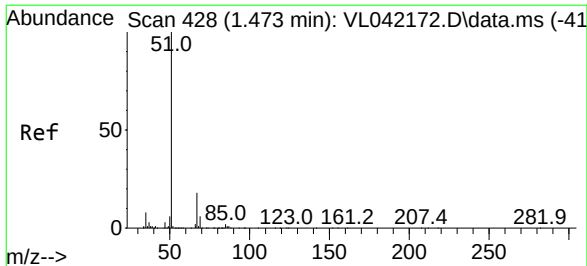


#2
Dichlorodifluoromethane
Concen: 1.026 ppbv
RT: 1.496 min Scan# 435
Delta R.T. 0.000 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30



Tgt Ion: 85 Resp: 28203
Ion Ratio Lower Upper
85 100
87 31.9 26.1 39.1





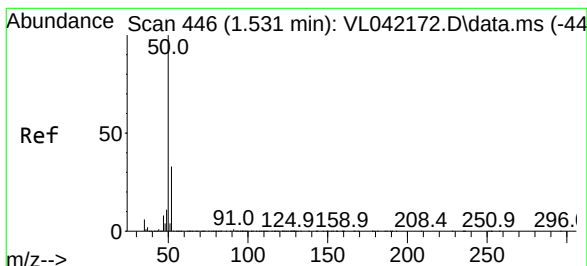
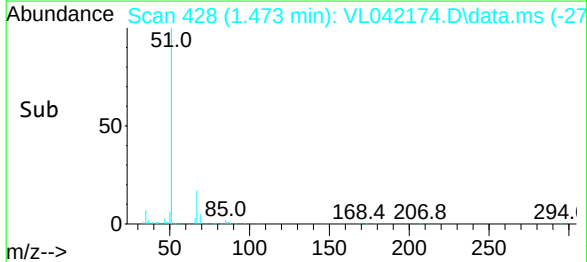
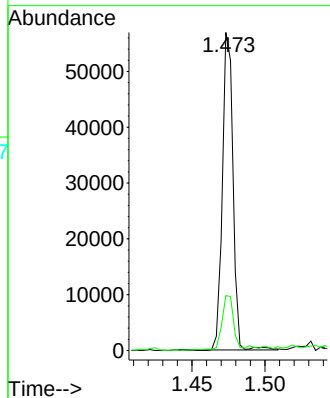
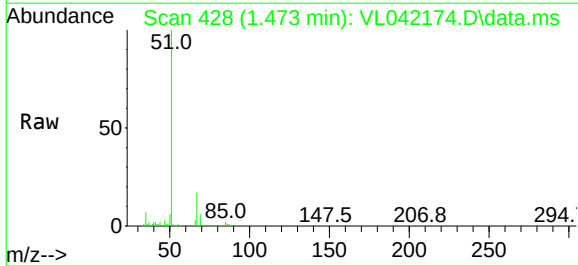
#3
Chlorodifluoromethane
Concen: 1.021 ppbv
RT: 1.473 min Scan# 428
Delta R.T. 0.000 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tgt Ion: 51 Resp: 28693
Ion Ratio Lower Upper
51 100
67 21.5 15.0 22.6

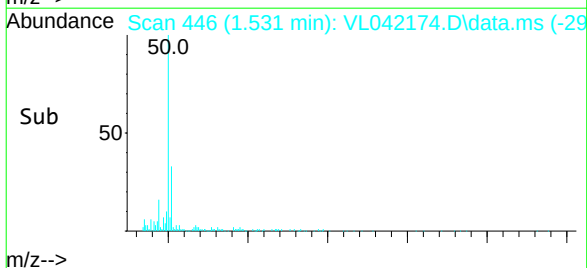
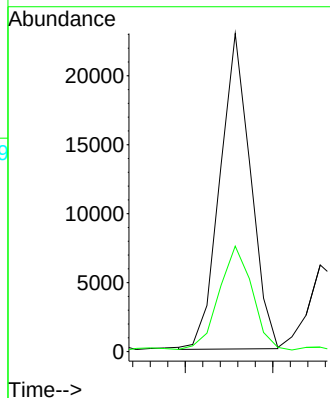
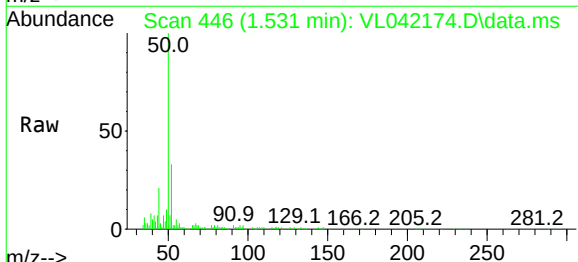
Manual Integrations
APPROVED

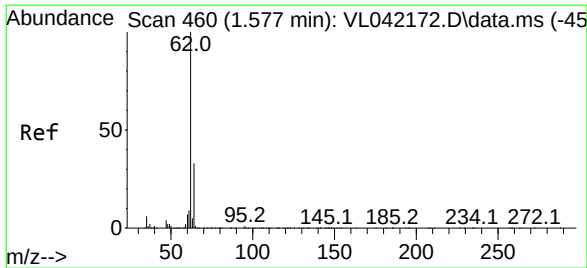
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#4
Chloromethane
Concen: 0.989 ppbv
RT: 1.531 min Scan# 446
Delta R.T. 0.000 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

Tgt Ion: 50 Resp: 11111
Ion Ratio Lower Upper
50 100
52 32.9 26.1 39.1





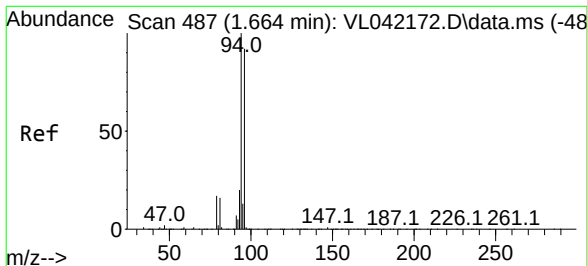
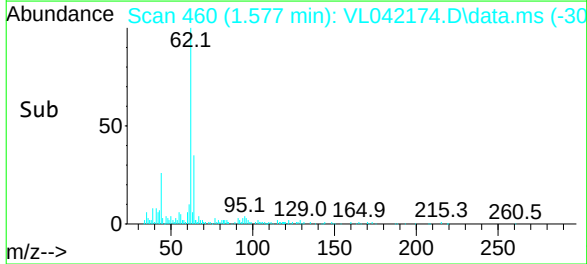
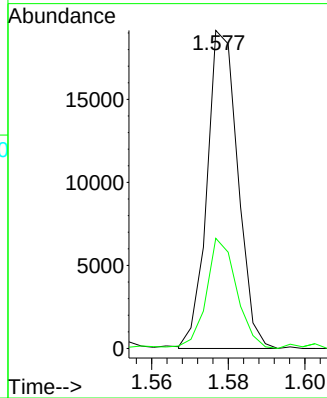
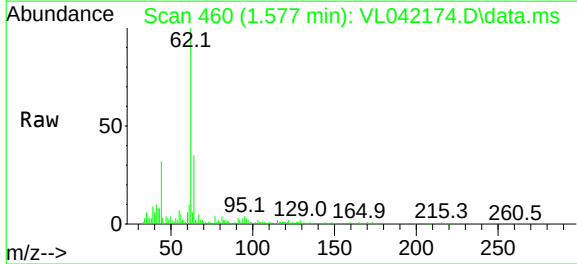
#5
 Vinyl Chloride
 Concen: 0.936 ppbv
 RT: 1.577 min Scan# 460
 Delta R.T. 0.000 min
 Lab File: VL042174.D
 Acq: 27 Mar 2025 09:30

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC001

Tgt Ion: 62 Resp: 10723
 Ion Ratio Lower Upper
 62 100
 64 34.6 26.6 40.0

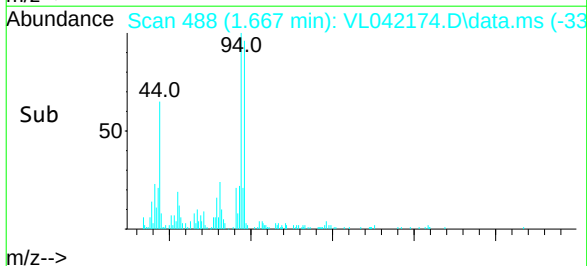
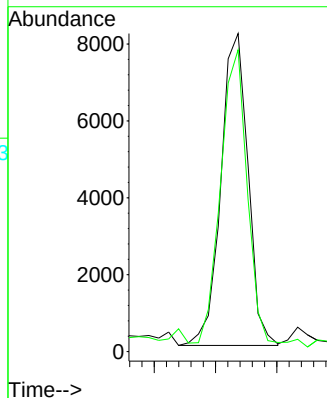
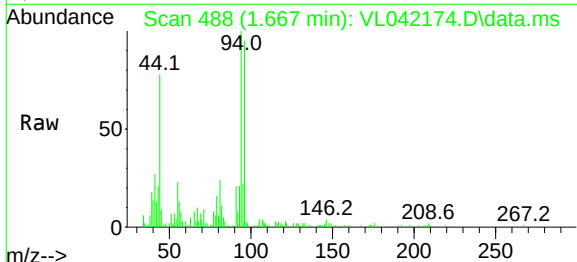
Manual Integrations
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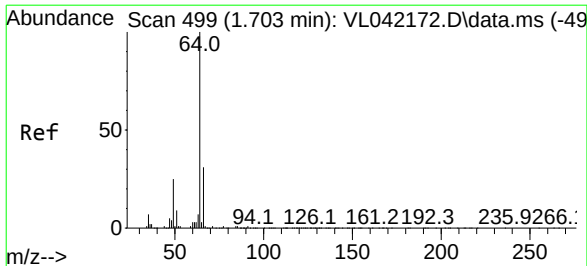
Reviewed By :Semsettin Yesilyurt 03/31/2025
 Supervised By :Mahesh Dadoda 04/03/2025



#6
 Bromomethane
 Concen: 0.979 ppbv
 RT: 1.667 min Scan# 488
 Delta R.T. 0.003 min
 Lab File: VL042174.D
 Acq: 27 Mar 2025 09:30

Tgt Ion: 94 Resp: 4984
 Ion Ratio Lower Upper
 94 100
 96 93.8 73.1 109.7





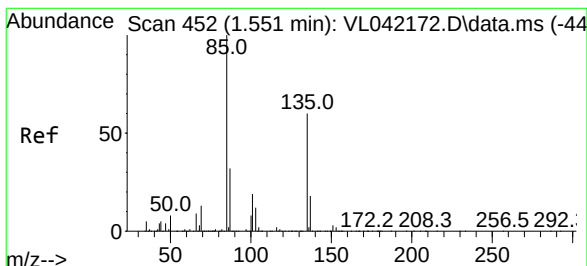
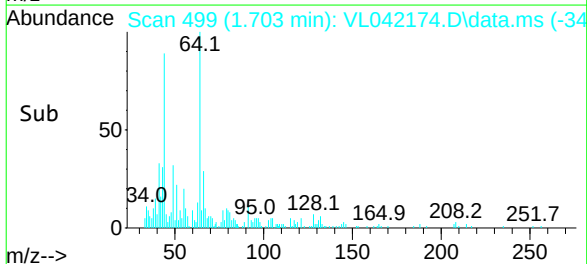
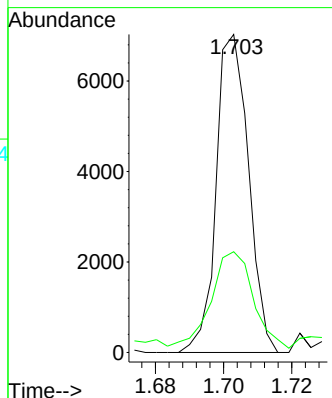
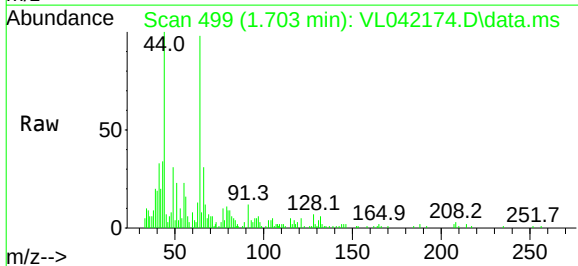
#7
Chloroethane
Concen: 1.025 ppbv
RT: 1.703 min Scan# 499
Delta R.T. 0.000 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tgt Ion: 64 Resp: 4622
Ion Ratio Lower Upper
64 100
66 31.7 25.2 37.8

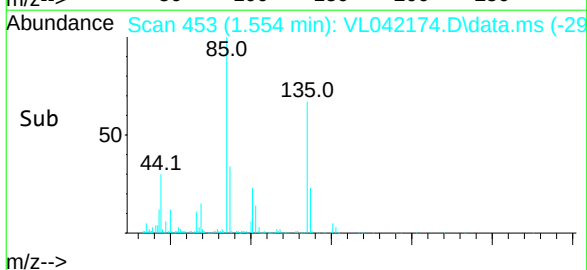
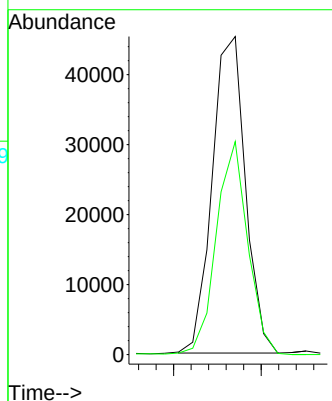
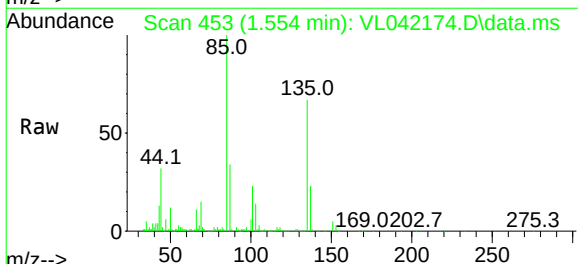
Manual Integrations
APPROVED

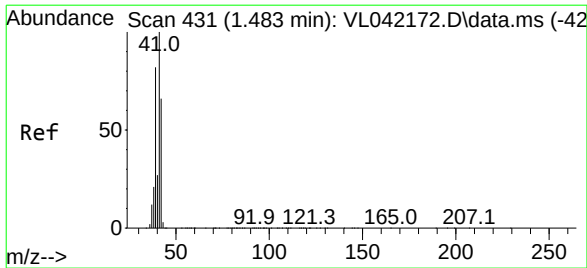
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#8
Dichlorotetrafluoroethane
Concen: 1.020 ppbv
RT: 1.554 min Scan# 453
Delta R.T. 0.003 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

Tgt Ion: 85 Resp: 23886
Ion Ratio Lower Upper
85 100
135 64.2 52.4 78.6





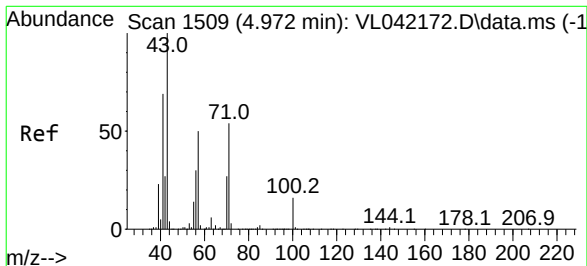
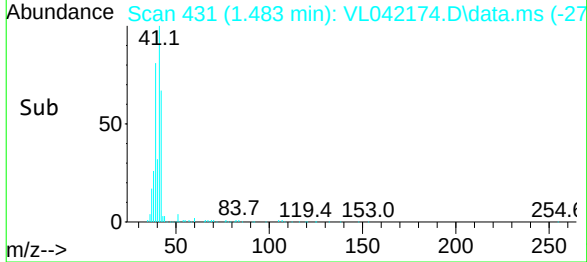
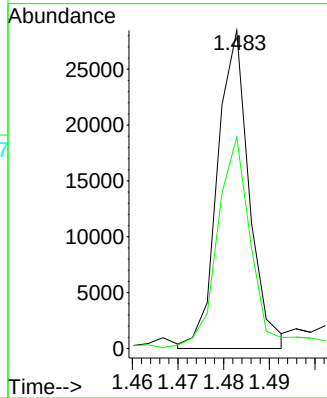
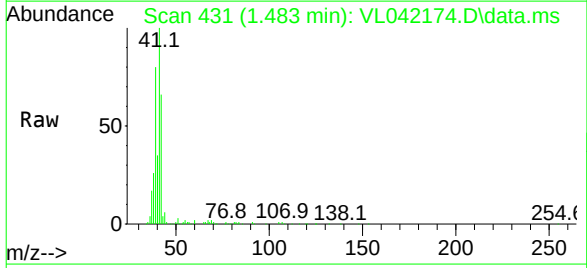
#9
Propene
Concen: 1.082 ppbv m
RT: 1.483 min Scan# 431
Delta R.T. 0.000 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tgt Ion: 41 Resp: 13699
Ion Ratio Lower Upper
41 100
42 7.5 55.4 83.2#

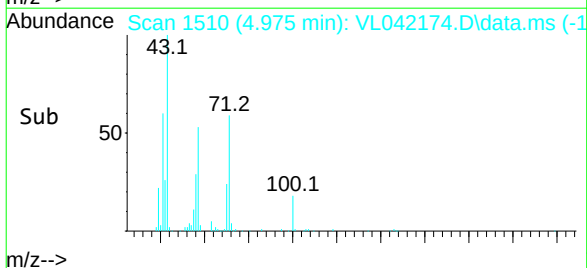
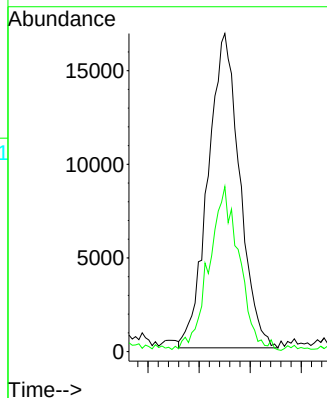
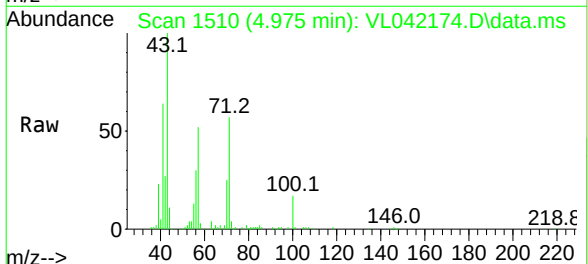
Manual Integrations
APPROVED

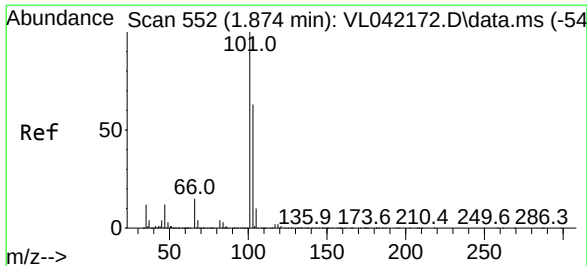
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#10
Heptane
Concen: 1.055 ppbv
RT: 4.975 min Scan# 1510
Delta R.T. 0.003 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

Tgt Ion: 43 Resp: 36132
Ion Ratio Lower Upper
43 100
57 49.6 39.4 59.2





#11

Trichlorofluoromethane

Concen: 1.014 ppbv

RT: 1.875 min Scan# 552

Delta R.T. 0.000 min

Lab File: VL042174.D

Acq: 27 Mar 2025 09:30

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tgt Ion:101 Resp: 27136

Ion Ratio Lower Upper

101 100

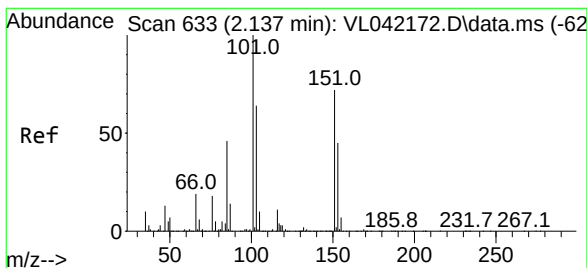
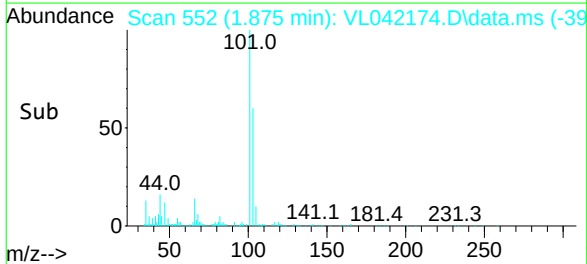
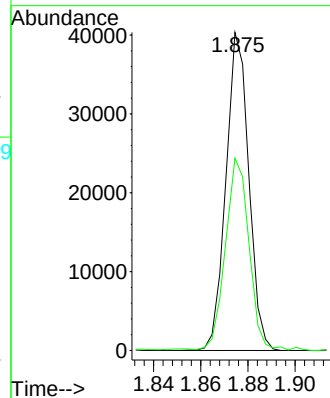
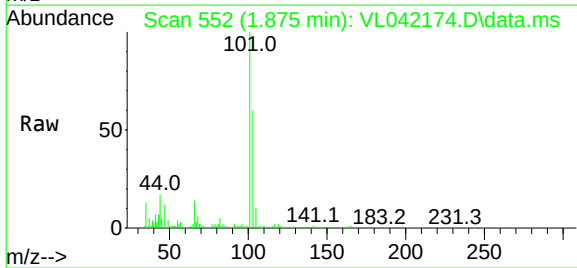
103 59.9 50.2 75.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 03/31/2025

Supervised By :Mahesh Dadoda 04/03/2025



#12

1,1,2-Trichlorotrifluoroethane

Concen: 1.029 ppbv

RT: 2.137 min Scan# 633

Delta R.T. 0.000 min

Lab File: VL042174.D

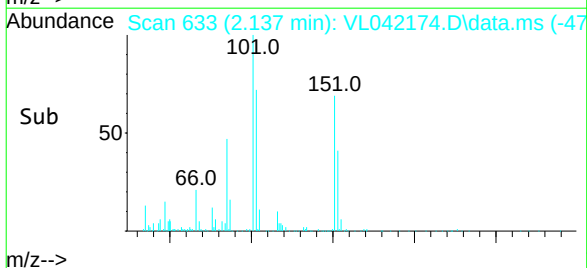
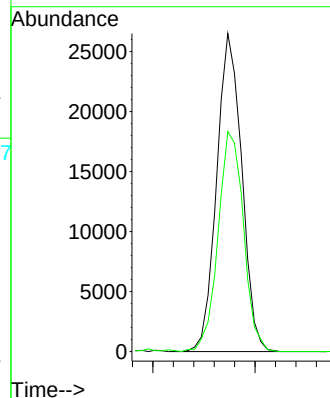
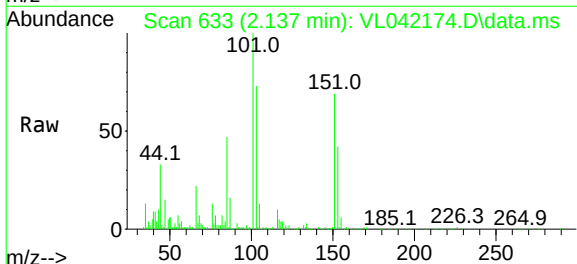
Acq: 27 Mar 2025 09:30

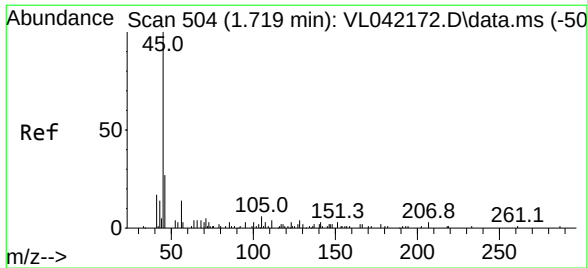
Tgt Ion:101 Resp: 22629

Ion Ratio Lower Upper

101 100

151 70.3 57.1 85.7





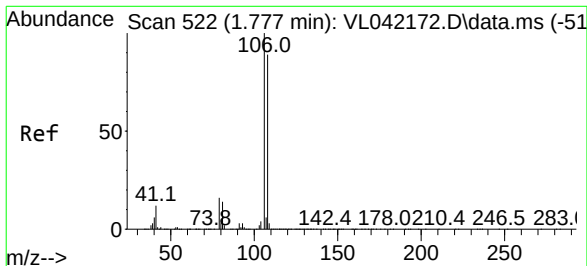
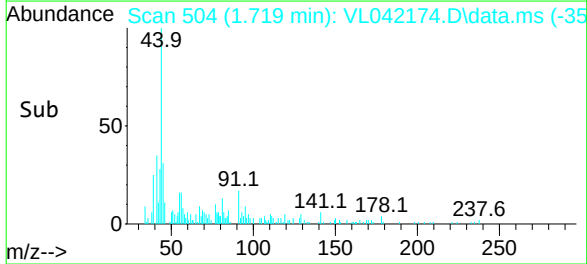
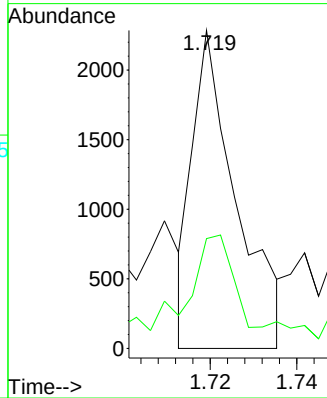
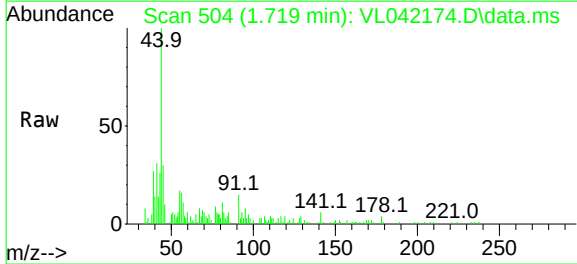
#13
Ethanol
Concen: 1.624 ppbv m
RT: 1.719 min Scan# 504
Delta R.T. 0.000 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion: 45 Resp: 1610
Ion Ratio Lower Upper
45 100
46 73.4 20.2 80.8

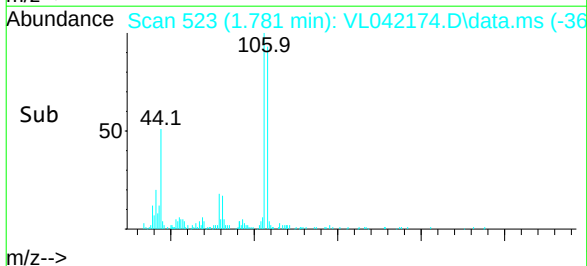
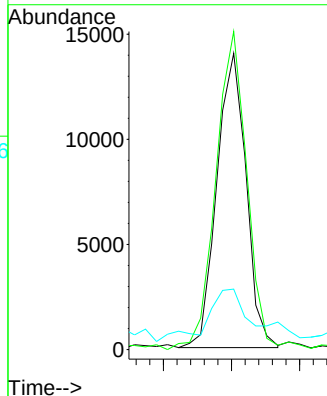
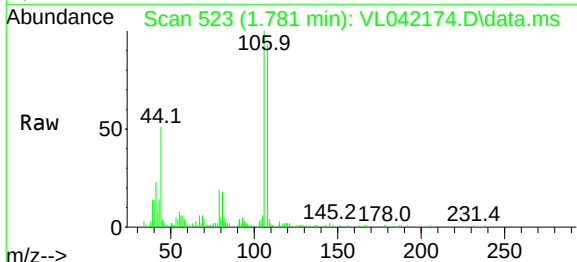
Manual Integrations
APPROVED

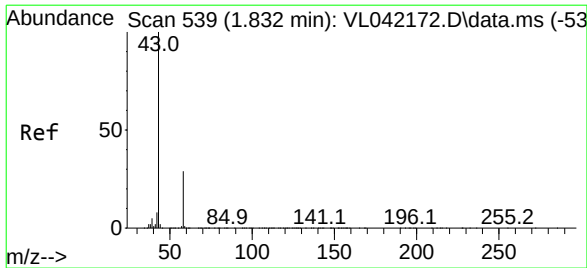
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#14
Bromoethene
Concen: 0.989 ppbv
RT: 1.781 min Scan# 523
Delta R.T. 0.003 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

Tgt Ion:108 Resp: 8330
Ion Ratio Lower Upper
108 100
106 115.2 86.8 130.2
79 57.0 15.0 22.6#





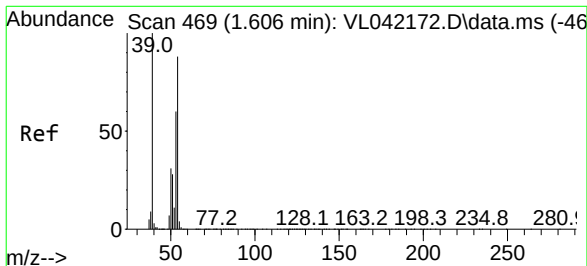
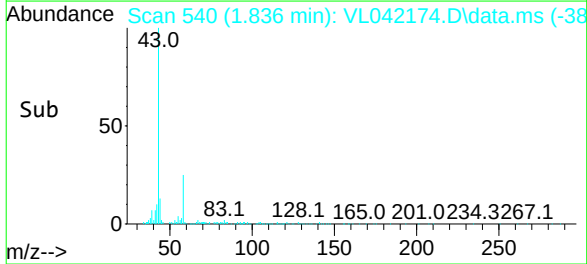
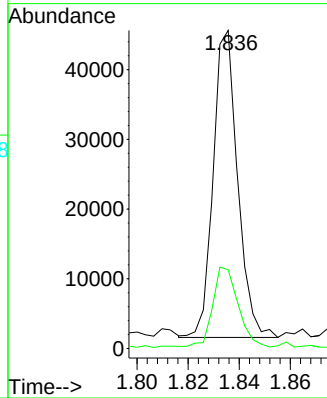
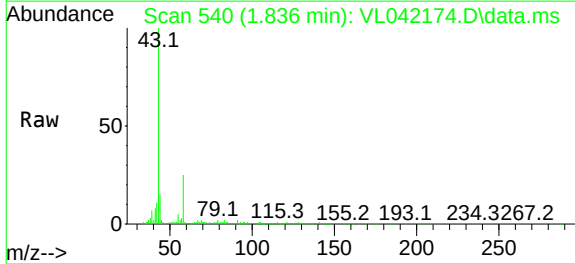
#15
Acetone
Concen: 1.125 ppbv
RT: 1.836 min Scan# 54
Delta R.T. 0.003 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion: 43 Resp: 29294
Ion Ratio Lower Upper
43 100
58 31.6 23.2 34.8

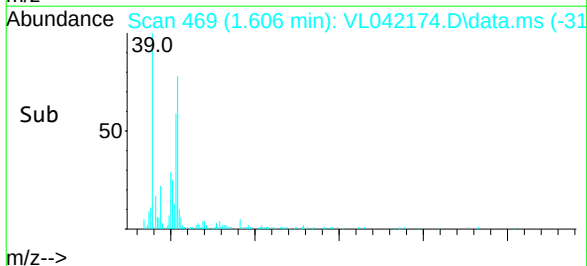
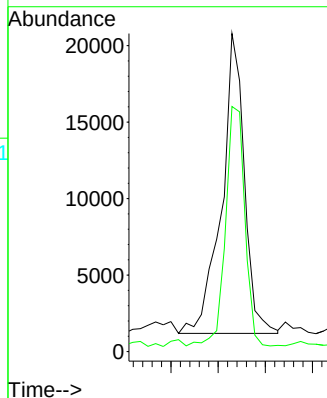
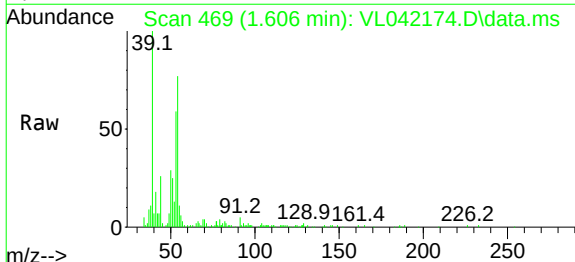
Manual Integrations
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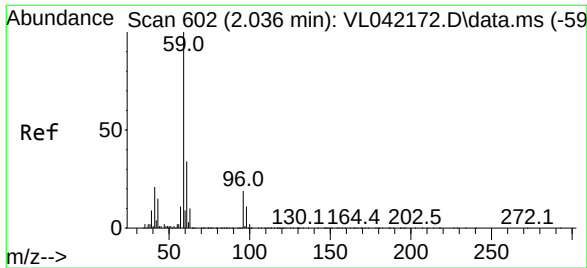
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#16
1,3-Butadiene
Concen: 1.121 ppbv
RT: 1.606 min Scan# 469
Delta R.T. 0.000 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

Tgt Ion: 39 Resp: 13133
Ion Ratio Lower Upper
39 100
54 73.5 60.7 91.1





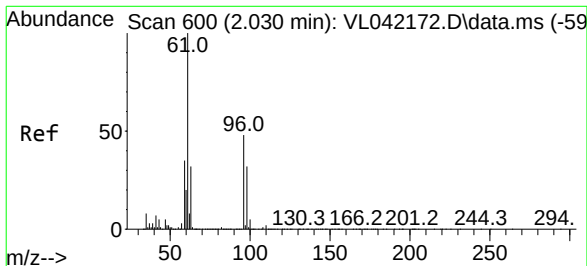
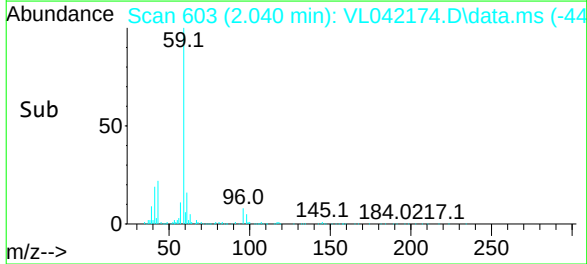
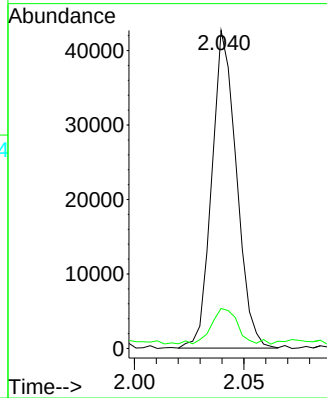
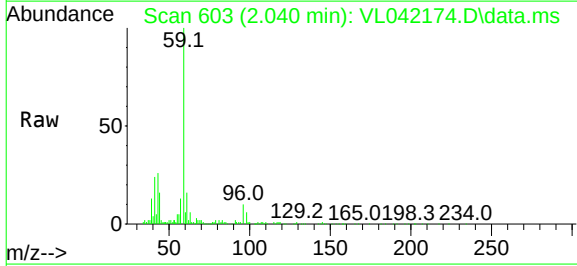
#17
tert-Butyl alcohol
Concen: 1.033 ppbv
RT: 2.040 min Scan# 600
Delta R.T. 0.003 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tgt Ion: 59 Resp: 33500
Ion Ratio Lower Upper
59 100
57 12.3 8.9 13.3

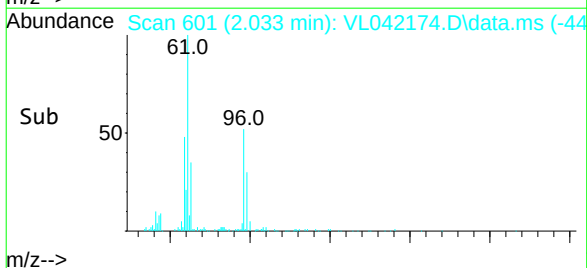
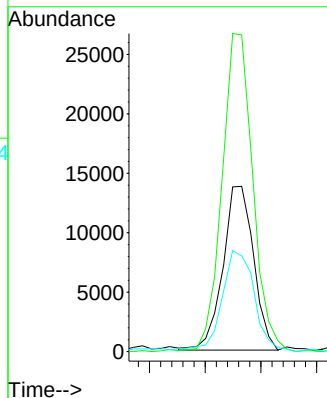
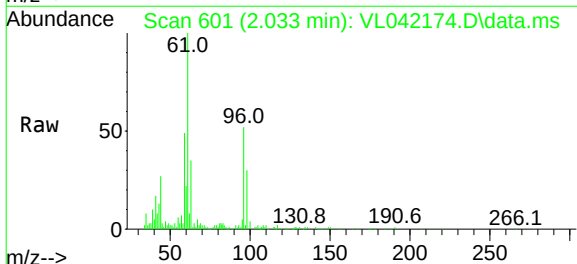
Manual Integrations
APPROVED

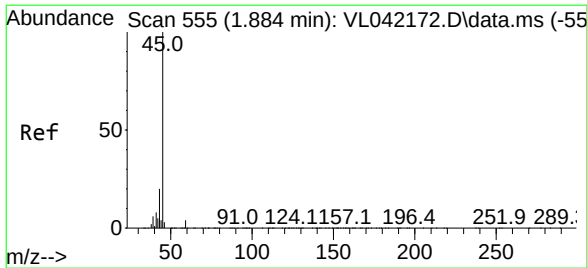
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#18
1,1-Dichloroethene
Concen: 1.024 ppbv
RT: 2.033 min Scan# 601
Delta R.T. 0.003 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

Tgt Ion: 96 Resp: 10532
Ion Ratio Lower Upper
96 100
61 192.9 167.6 251.4
98 56.7 53.5 80.3





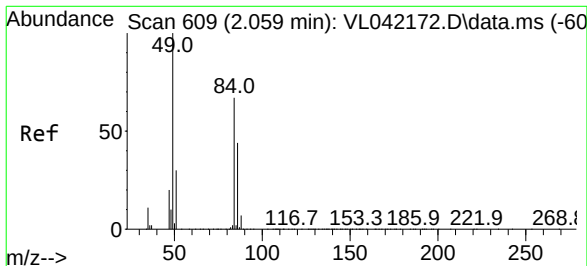
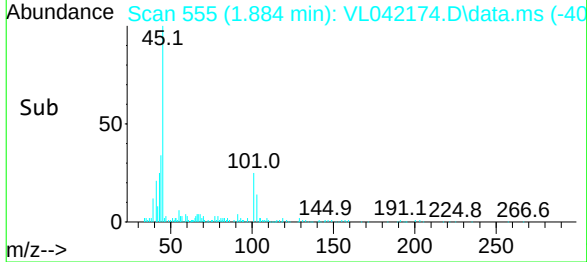
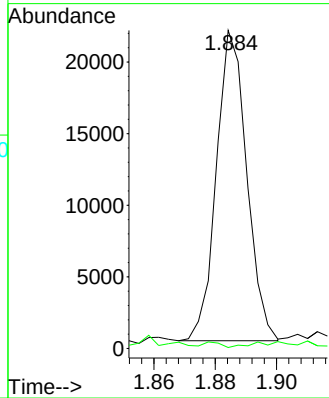
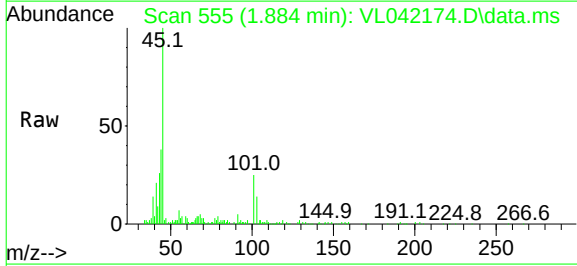
#19
Isopropyl Alcohol
Concen: 1.014 ppbv
RT: 1.884 min Scan# 555
Delta R.T. 0.000 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion: 45 Resp: 14903
Ion Ratio Lower Upper
45 100
58 4.9 36.9 55.3

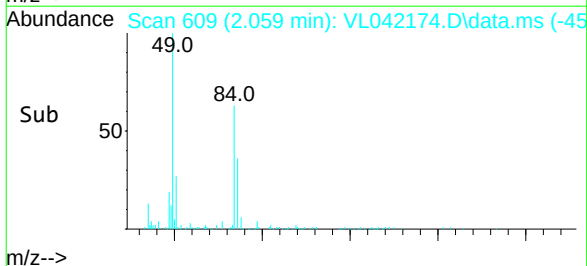
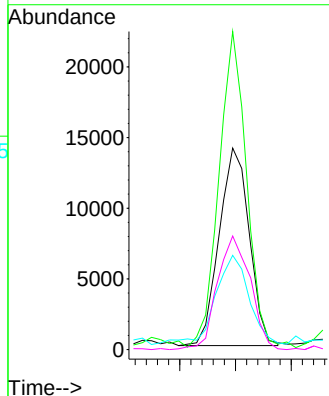
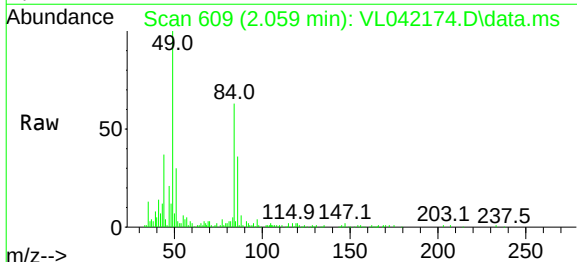
Manual Integrations
APPROVED

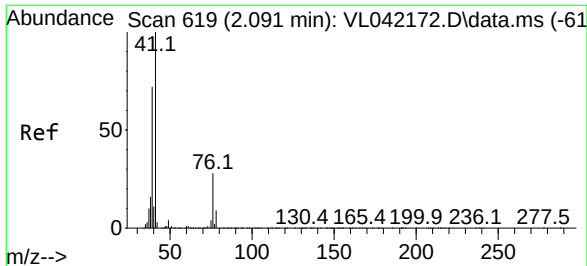
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#20
Methylene Chloride
Concen: 1.080 ppbv
RT: 2.059 min Scan# 609
Delta R.T. 0.000 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

Tgt Ion: 84 Resp: 10481
Ion Ratio Lower Upper
84 100
49 158.3 120.2 180.4
51 44.3 37.4 56.0
86 57.1 52.4 78.6





#21

Allyl Chloride

Concen: 1.036 ppbv

RT: 2.095 min Scan# 621

Delta R.T. 0.003 min

Lab File: VL042174.D

Acq: 27 Mar 2025 09:30

Instrument :

MSVOA_L

ClientSampleId :

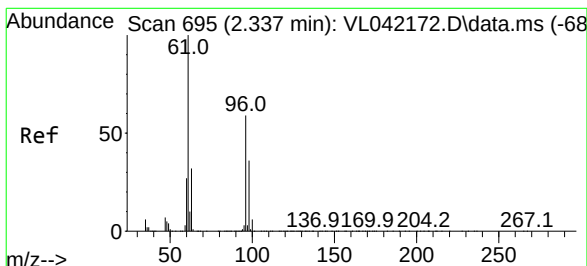
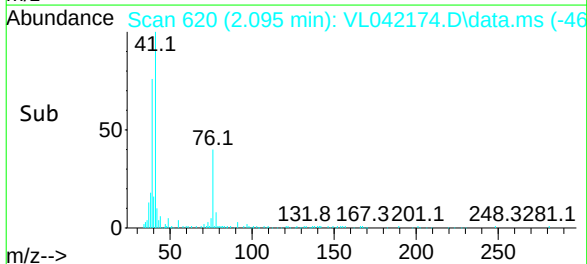
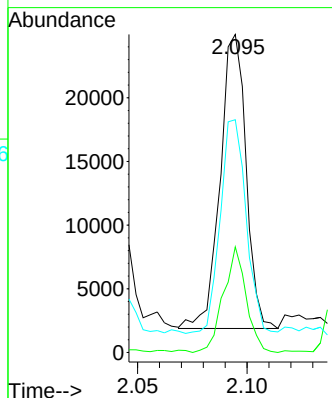
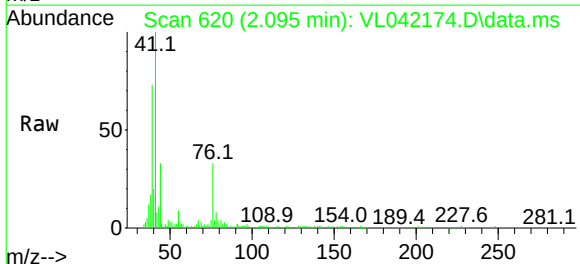
VSTDICC001

Tgt Ion:	41	Resp:	19039
Ion	Ratio	Lower	Upper
41	100		
76	30.5	24.1	36.1
39	77.8	61.1	91.7

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#22

trans-1,2-Dichloroethene

Concen: 1.086 ppbv m

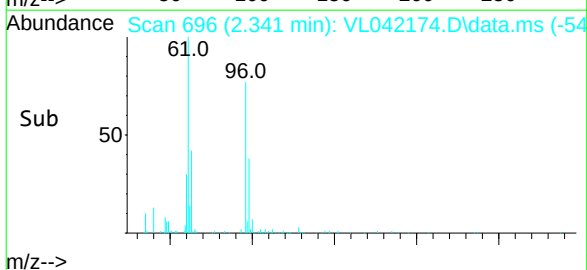
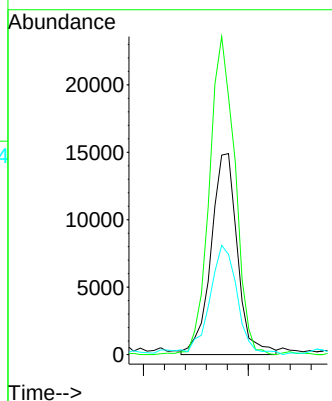
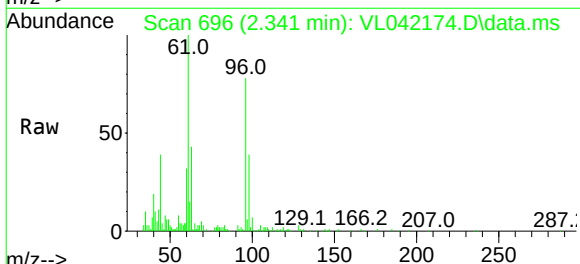
RT: 2.341 min Scan# 696

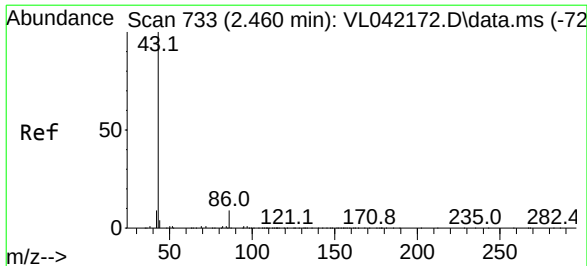
Delta R.T. 0.003 min

Lab File: VL042174.D

Acq: 27 Mar 2025 09:30

Tgt Ion:	96	Resp:	13051
Ion	Ratio	Lower	Upper
96	100		
61	128.3	136.6	204.8#
98	49.9	49.4	74.2





#23

Vinyl Acetate

Concen: 1.190 ppbv m

RT: 2.464 min Scan# 73

Delta R.T. 0.003 min

Lab File: VL042174.D

Acq: 27 Mar 2025 09:30

Instrument :

MSVOA_L

ClientSampleId :

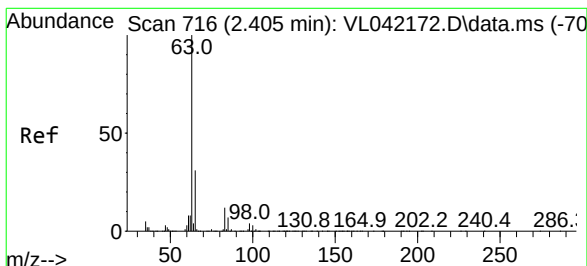
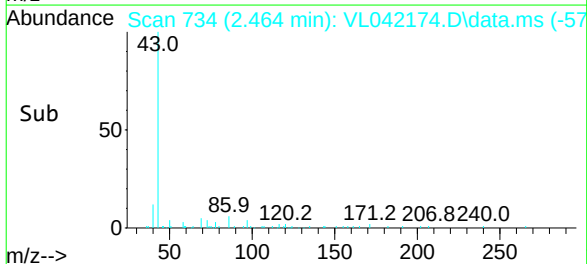
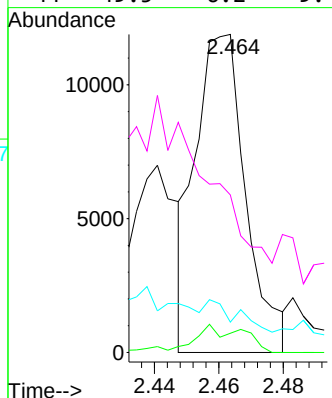
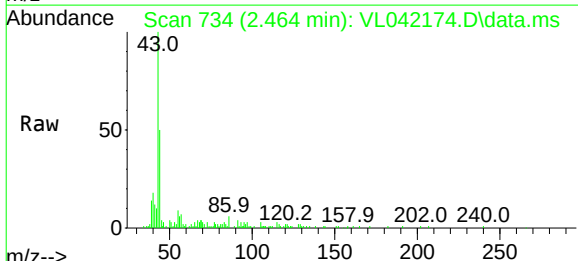
VSTDICC001

Tgt Ion: 43	Resp: 12883
Ion Ratio	Lower Upper
43 100	
86 6.0	5.5 8.3
42 9.5	8.6 13.0
44 49.5	6.2 9.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#24

1,1-Dichloroethane

Concen: 1.022 ppbv

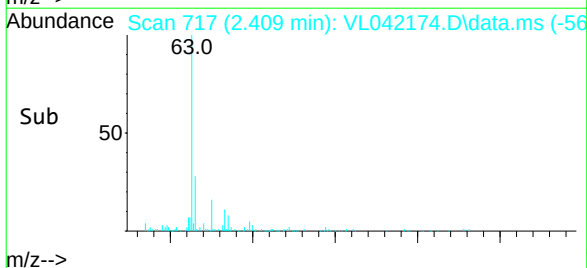
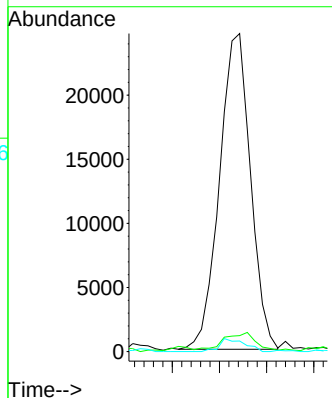
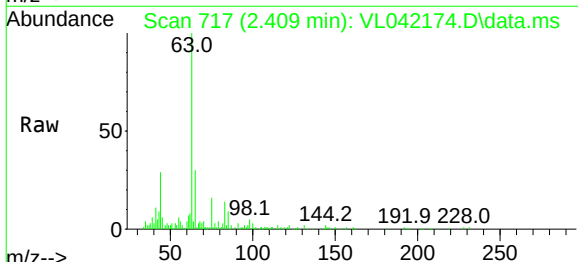
RT: 2.409 min Scan# 717

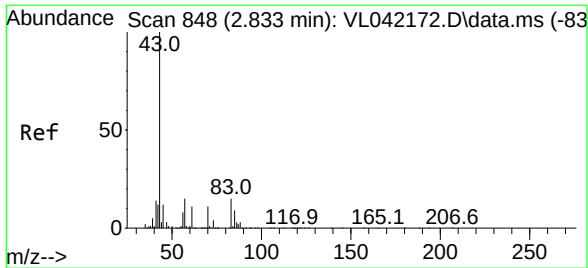
Delta R.T. 0.003 min

Lab File: VL042174.D

Acq: 27 Mar 2025 09:30

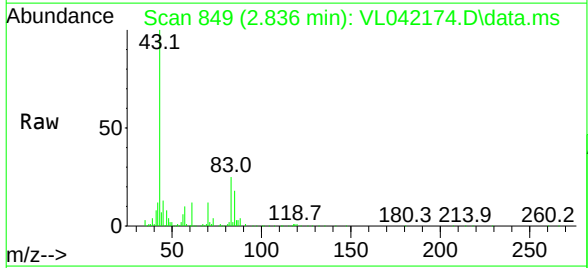
Tgt Ion: 63	Resp: 22505
Ion Ratio	Lower Upper
63 100	
98 4.6	2.3 6.8
100 3.4	1.6 4.7





#25
Ethyl Acetate
Concen: 0.997 ppbv
RT: 2.836 min Scan# 848
Delta R.T. 0.003 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

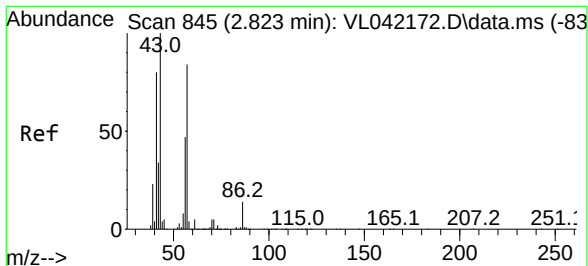
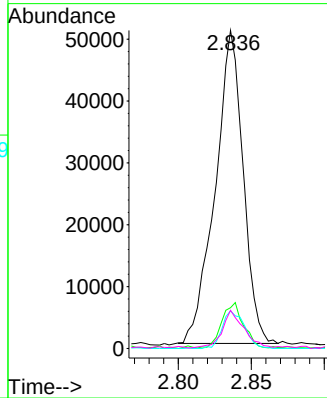
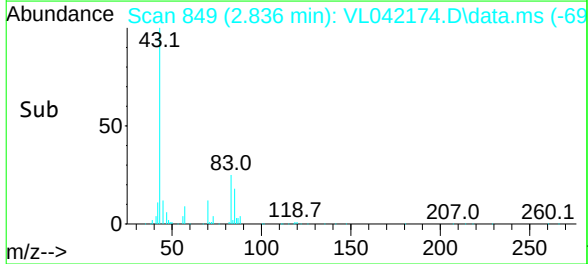
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001



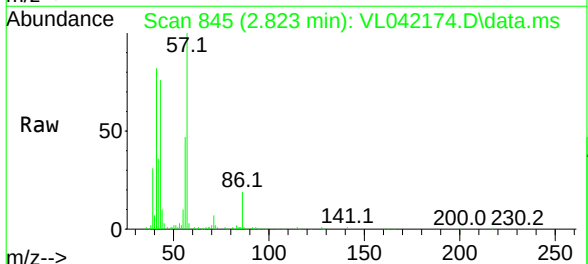
Tgt Ion:	43	Resp:	67402
Ion	Ratio	Lower	Upper
43	100		
45	12.3	8.2	12.2
61	9.6	7.3	10.9
70	10.3	7.2	10.8

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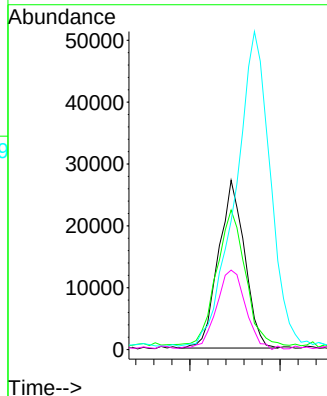
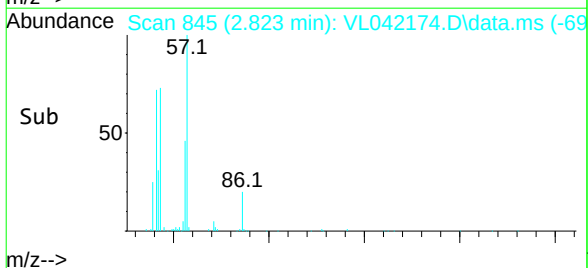
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025

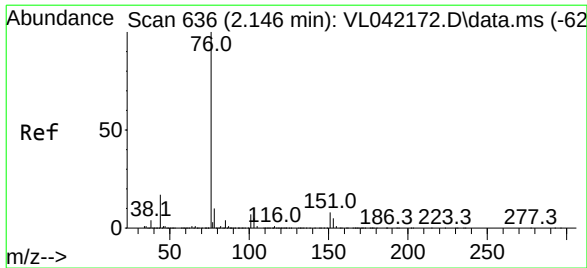


#26
Hexane
Concen: 1.043 ppbv
RT: 2.823 min Scan# 845
Delta R.T. 0.000 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30



Tgt Ion:	57	Resp:	27223
Ion	Ratio	Lower	Upper
57	100		
41	93.5	76.6	114.8
43	256.9	207.8	311.8
56	53.3	43.6	65.4





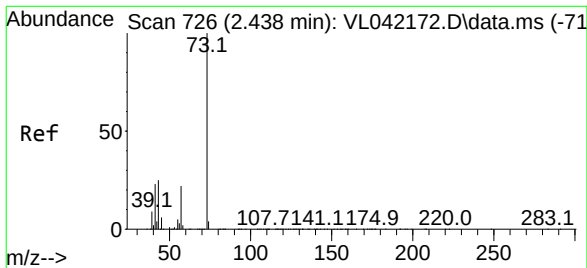
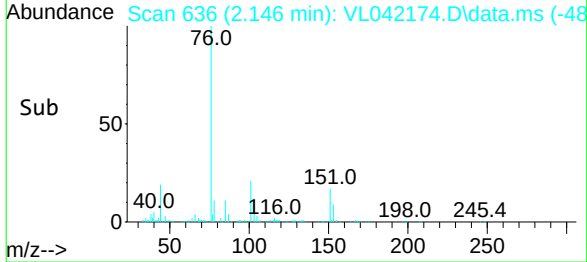
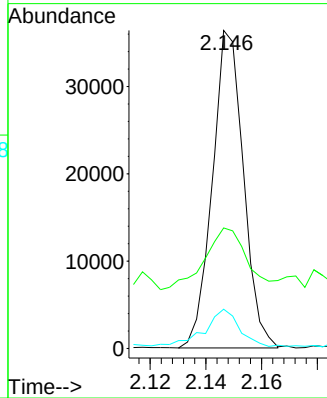
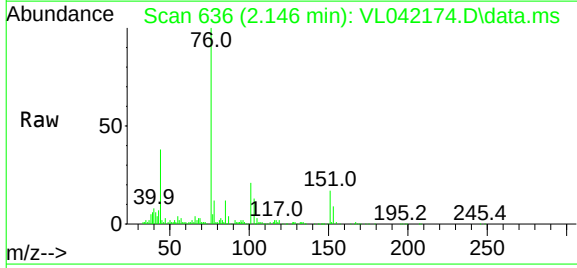
#27
Carbon Disulfide
Concen: 1.006 ppbv
RT: 2.146 min Scan# 636
Delta R.T. 0.000 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

Instrument : MSVOA_L
ClientSampleId : VSTDICC001

Tgt Ion: 76 Resp: 28167
Ion Ratio Lower Upper
76 100
44 54.6 14.7 22.1#
78 15.0 9.3 13.9#

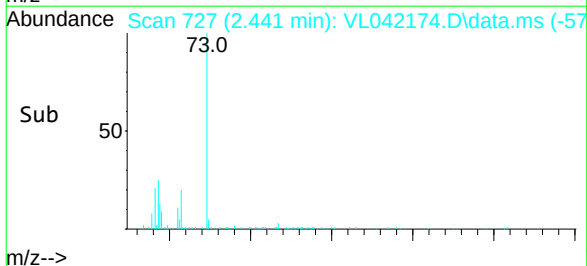
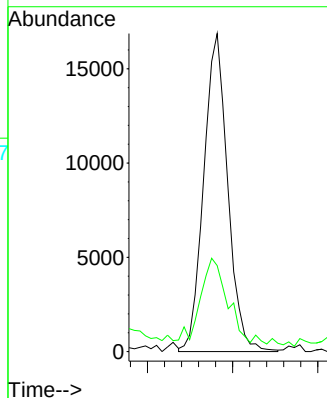
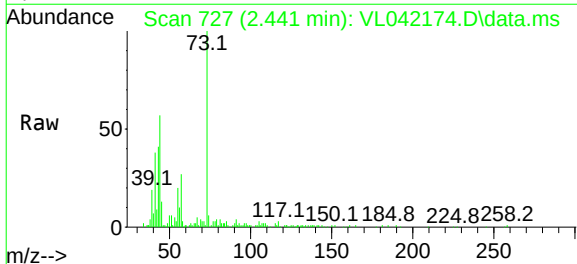
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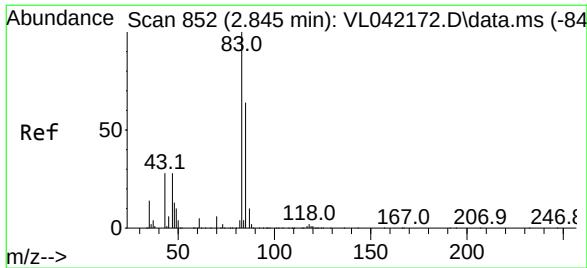
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#28
Methyl tert-Butyl Ether
Concen: 1.015 ppbv
RT: 2.441 min Scan# 727
Delta R.T. 0.003 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

Tgt Ion: 73 Resp: 16501
Ion Ratio Lower Upper
73 100
57 28.0 20.5 30.7





#29

Chloroform

Concen: 1.008 ppbv

RT: 2.845 min Scan# 85

Delta R.T. 0.000 min

Lab File: VL042174.D

Acq: 27 Mar 2025 09:30

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tgt Ion: 83 Resp: 38516

Ion Ratio Lower Upper

83 100

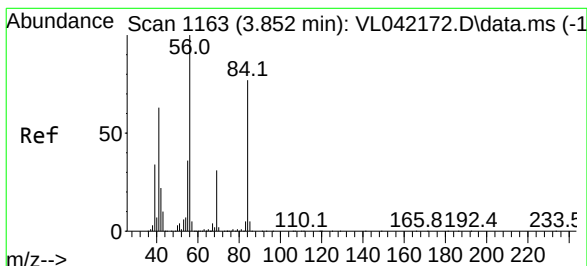
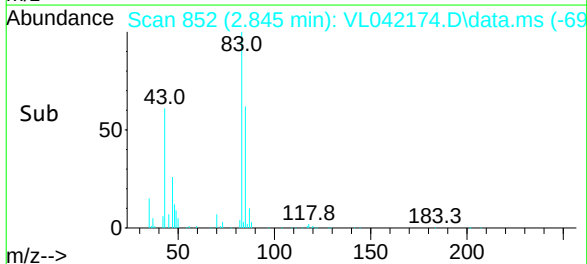
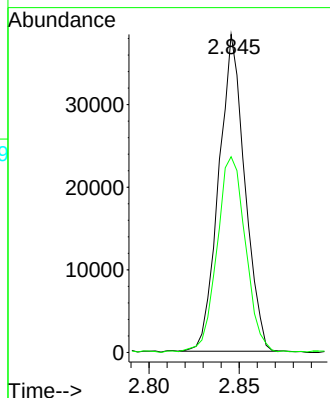
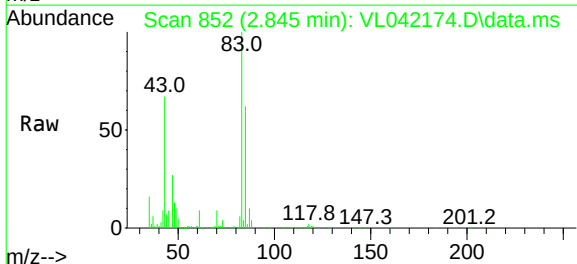
85 61.6 51.4 77.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 03/31/2025

Supervised By :Mahesh Dadoda 04/03/2025



#30

Cyclohexane

Concen: 1.016 ppbv

RT: 3.852 min Scan# 1163

Delta R.T. 0.000 min

Lab File: VL042174.D

Acq: 27 Mar 2025 09:30

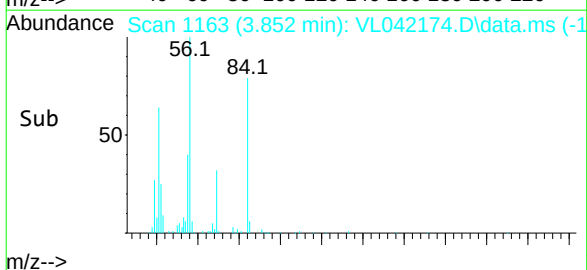
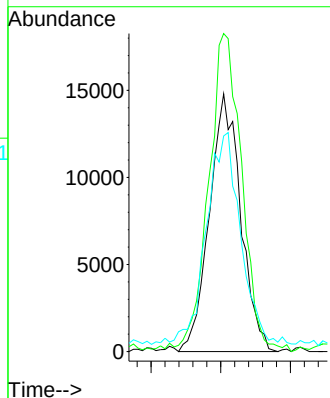
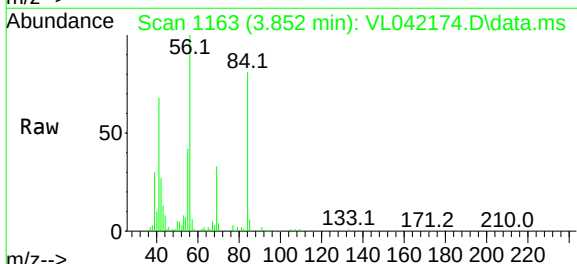
Tgt Ion: 84 Resp: 23052

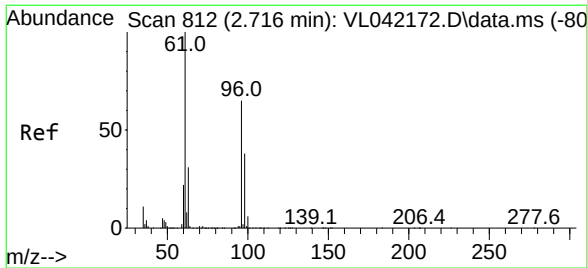
Ion Ratio Lower Upper

84 100

56 128.9 102.8 154.2

41 89.3 66.5 99.7





#31

cis-1,2-Dichloroethene

Concen: 1.026 ppbv

RT: 2.716 min Scan# 81

Delta R.T. 0.000 min

Lab File: VL042174.D

Acq: 27 Mar 2025 09:30

Instrument :

MSVOA_L

ClientSampleId :

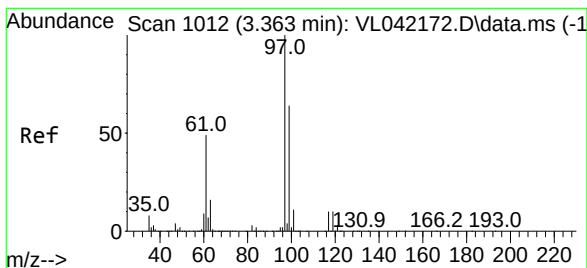
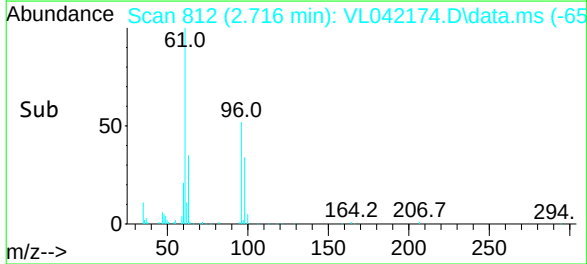
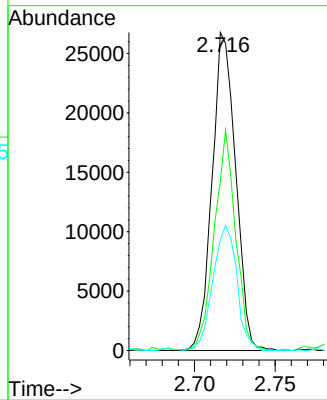
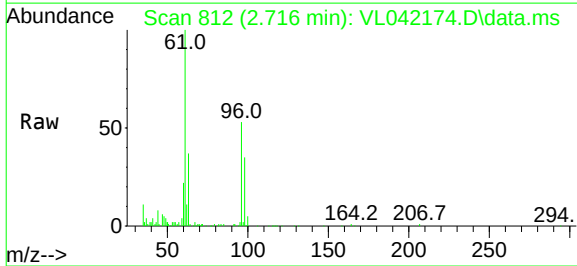
VSTDICC001

Tgt Ion:	61	Resp:	27187
Ion	Ratio	Lower	Upper
61	100		
96	53.3	51.8	77.8
98	34.8	30.6	46.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#32

1,1,1-Trichloroethane

Concen: 0.938 ppbv

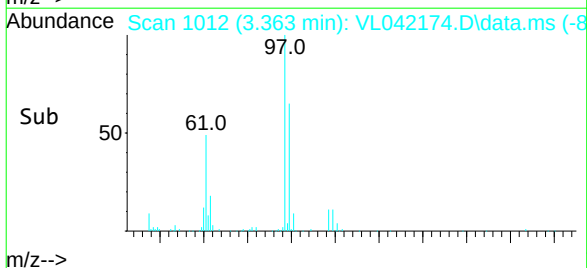
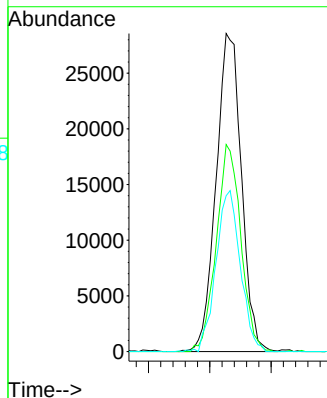
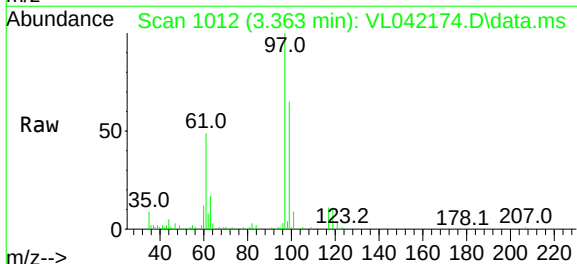
RT: 3.363 min Scan# 1012

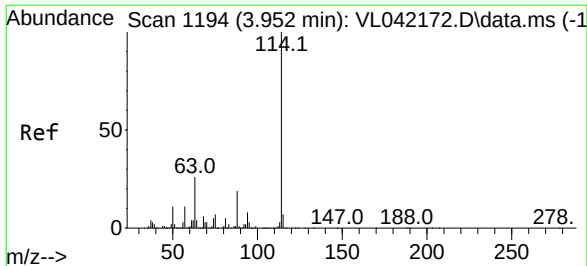
Delta R.T. 0.000 min

Lab File: VL042174.D

Acq: 27 Mar 2025 09:30

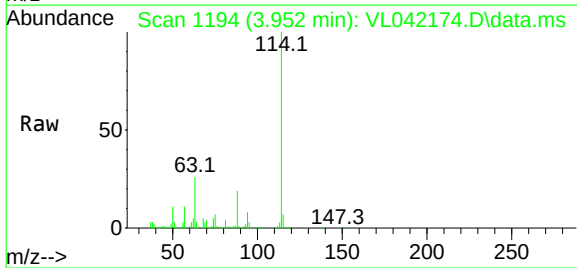
Tgt Ion:	97	Resp:	40993
Ion	Ratio	Lower	Upper
97	100		
99	63.0	51.5	77.3
61	48.8	38.7	58.1





#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.952 min Scan# 1194
Delta R.T. 0.000 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

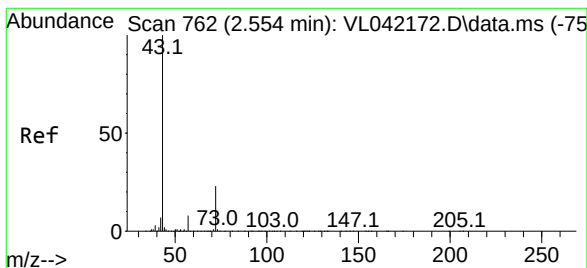
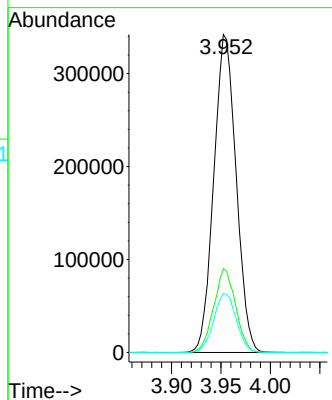
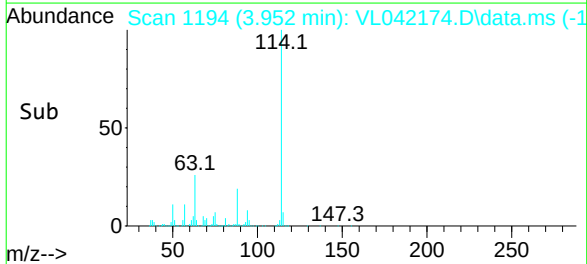
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001



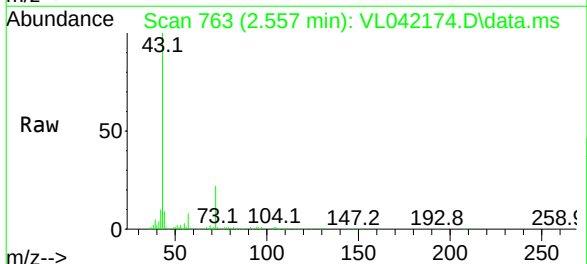
Tgt Ion: 114 Resp: 537244
Ion Ratio Lower Upper
114 100
63 25.8 20.7 31.1
88 18.8 15.0 22.4

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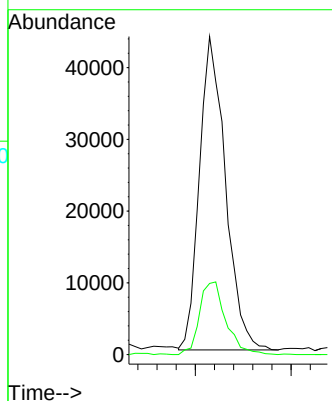
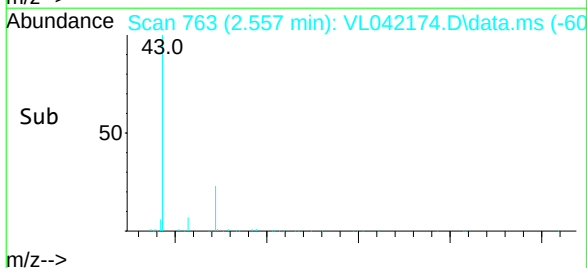
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025

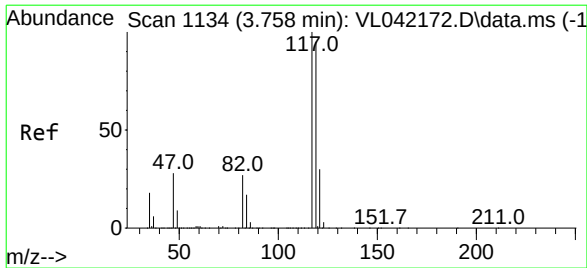


#34
2-Butanone
Concen: 1.063 ppbv
RT: 2.557 min Scan# 763
Delta R.T. 0.003 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30



Tgt Ion: 43 Resp: 41423
Ion Ratio Lower Upper
43 100
72 23.5 18.2 27.2





#35

Carbon Tetrachloride

Concen: 0.952 ppbv

RT: 3.758 min Scan# 11

Delta R.T. 0.000 min

Lab File: VL042174.D

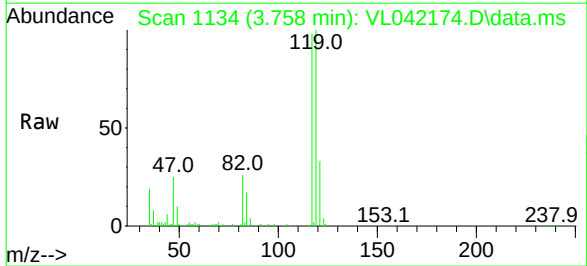
Acq: 27 Mar 2025 09:30

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

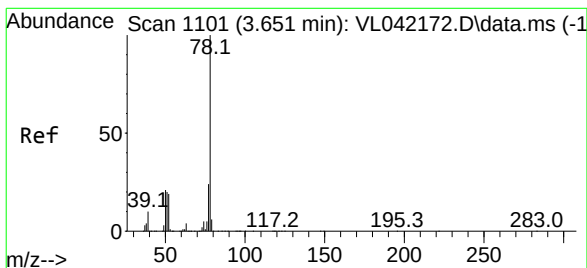
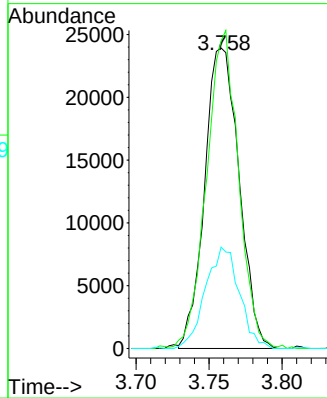
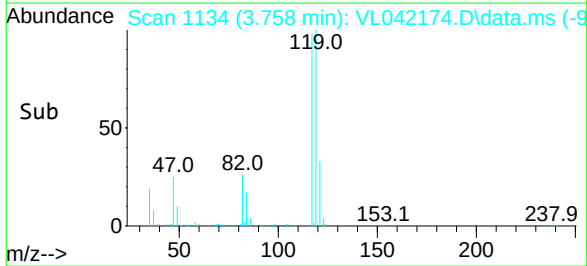


Tgt Ion:	117	Resp:	39345
Ion	Ratio	Lower	Upper
117	100		
119	101.8	76.2	114.2
121	33.7	24.2	36.4

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Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#36

Benzene

Concen: 1.036 ppbv

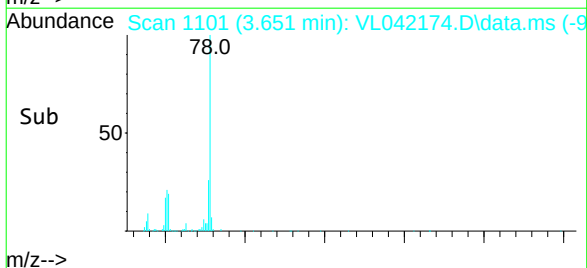
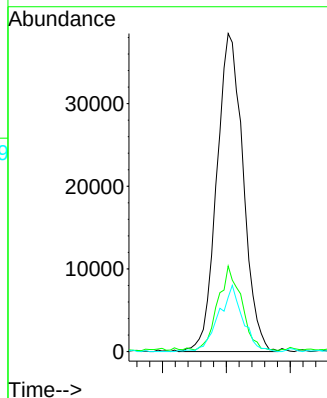
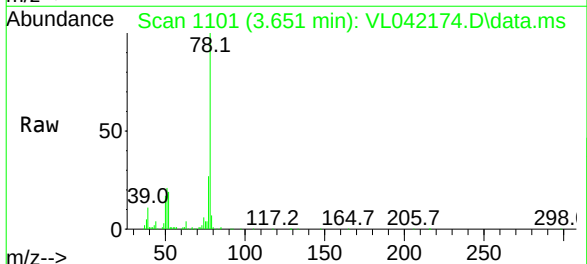
RT: 3.651 min Scan# 1101

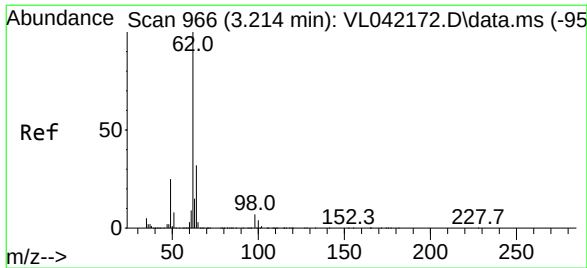
Delta R.T. 0.000 min

Lab File: VL042174.D

Acq: 27 Mar 2025 09:30

Tgt Ion:	78	Resp:	55156
Ion	Ratio	Lower	Upper
78	100		
77	26.5	19.1	28.7
50	17.1	16.6	24.8





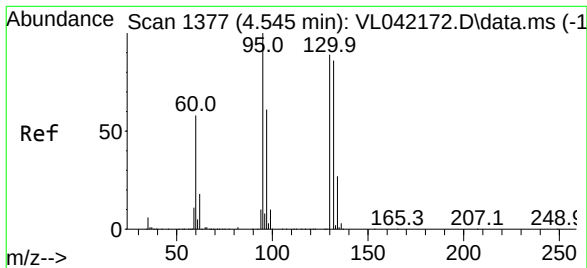
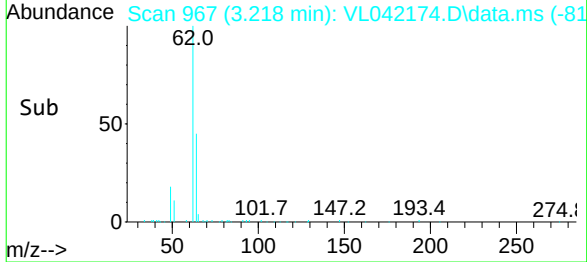
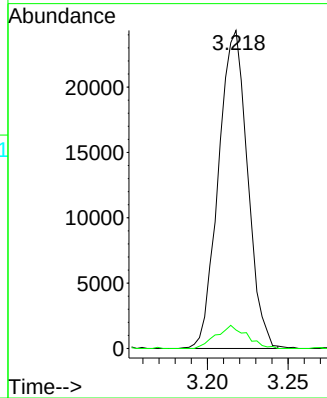
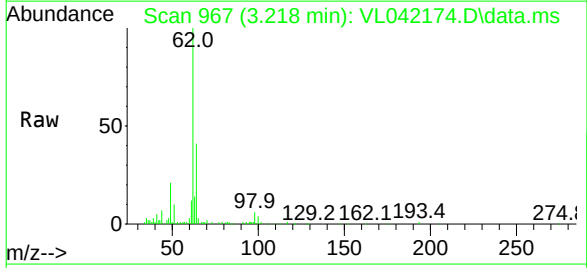
#37
1,2-Dichloroethane
Concen: 1.002 ppbv
RT: 3.218 min Scan# 966
Delta R.T. 0.003 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion: 62 Resp: 30543
Ion Ratio Lower Upper
62 100
98 7.6 5.4 8.2

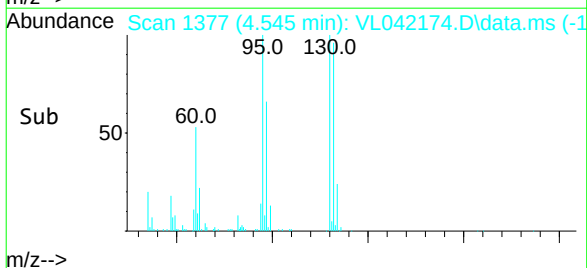
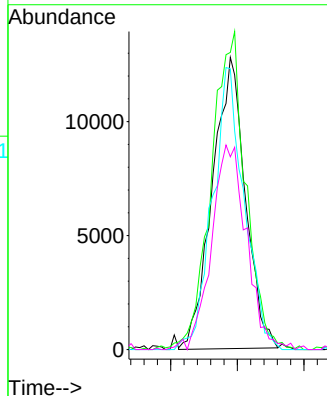
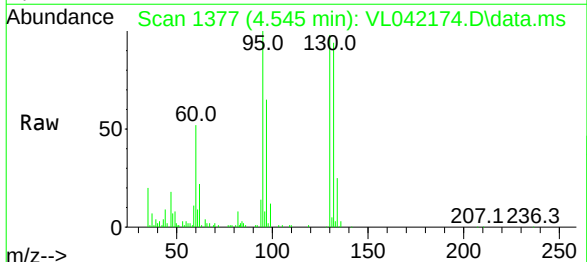
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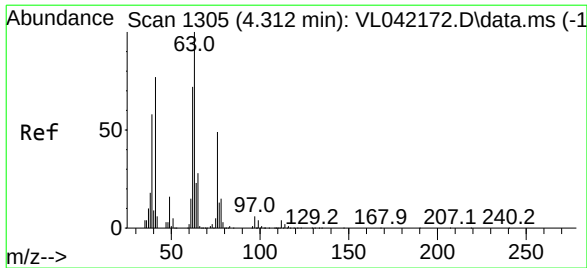
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#38
Trichloroethene
Concen: 0.985 ppbv
RT: 4.545 min Scan# 1377
Delta R.T. 0.000 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

Tgt Ion:130 Resp: 21906
Ion Ratio Lower Upper
130 100
95 100.2 89.8 134.8
132 95.3 77.4 116.2
97 64.3 55.1 82.7





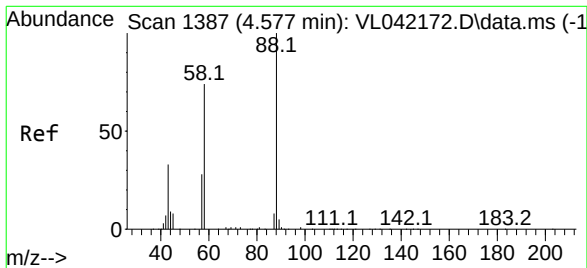
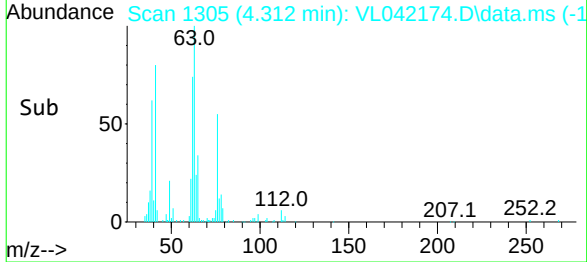
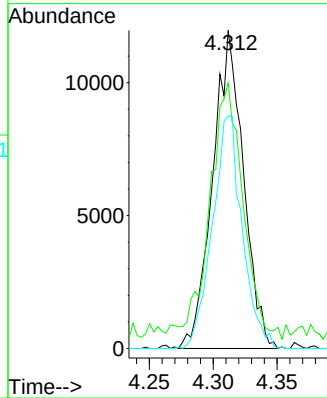
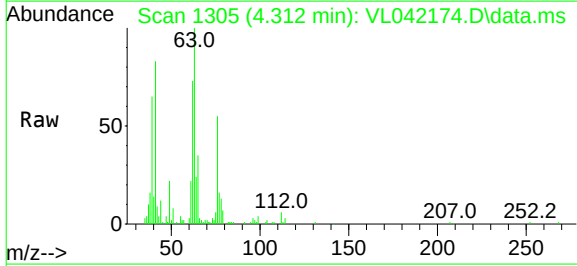
#39
1,2-Dichloropropane
Concen: 1.032 ppbv
RT: 4.312 min Scan# 1305
Delta R.T. 0.000 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion: 63 Resp: 20020
Ion Ratio Lower Upper
63 100
41 76.8 61.7 92.5
62 73.1 57.6 86.4

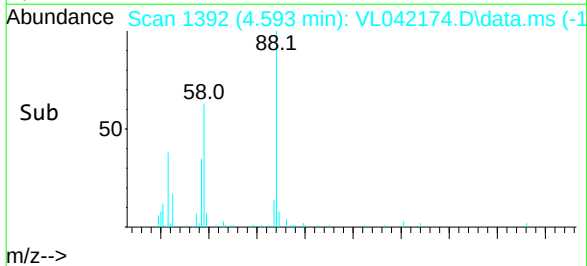
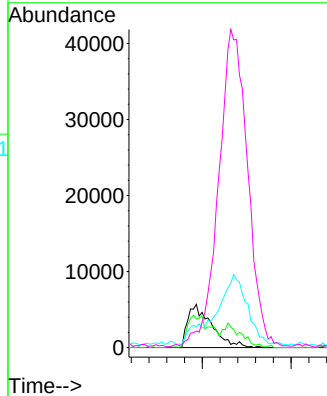
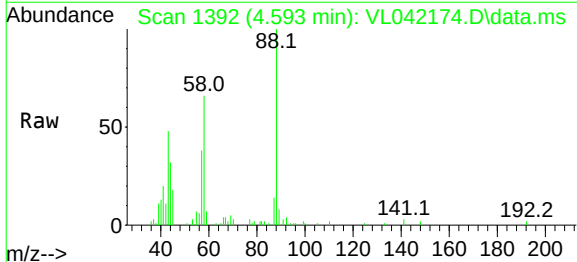
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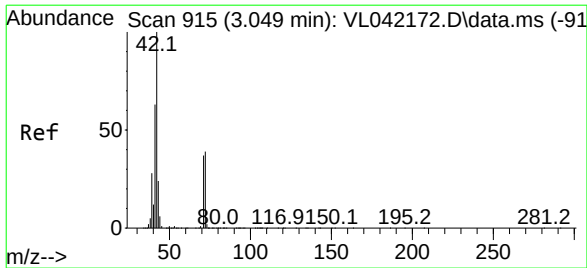
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#40
1,4-Dioxane
Concen: 1.052 ppbv m
RT: 4.593 min Scan# 1392
Delta R.T. 0.016 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

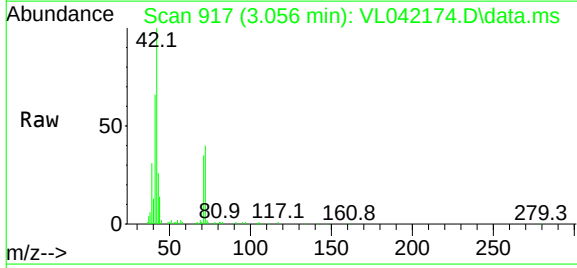
Tgt Ion: 88 Resp: 10592
Ion Ratio Lower Upper
88 100
58 115.3 62.7 94.1#
43 0.0 23.0 34.4#
57 0.0 0.0 0.0





#41
Tetrahydrofuran
Concen: 1.029 ppbv
RT: 3.056 min Scan# 91
Delta R.T. 0.007 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

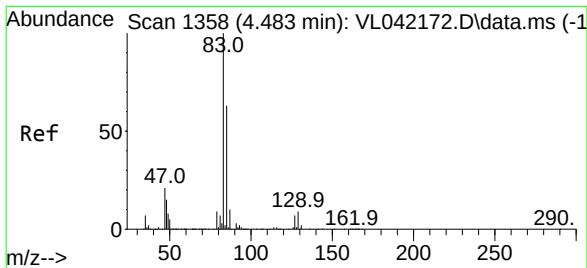
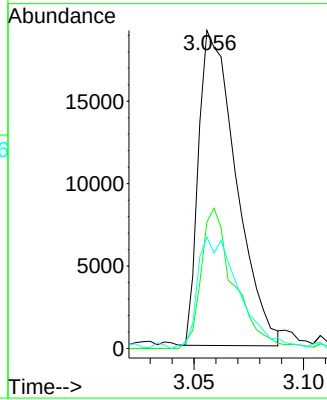
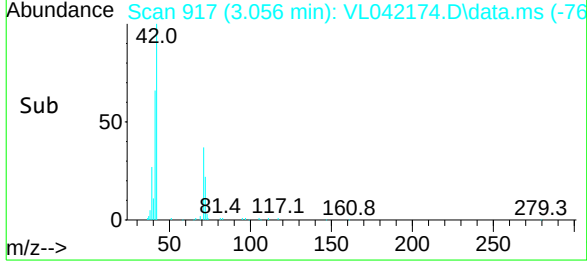
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001



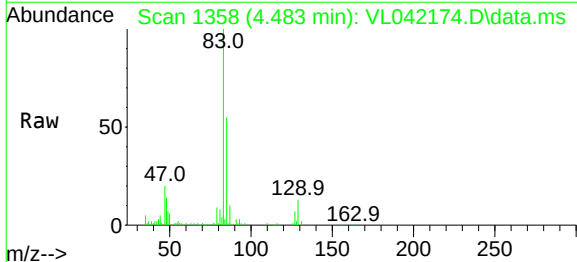
Tgt Ion: 42 Resp: 22818
Ion Ratio Lower Upper
42 100
72 39.4 31.4 47.0
71 40.8 30.2 45.4

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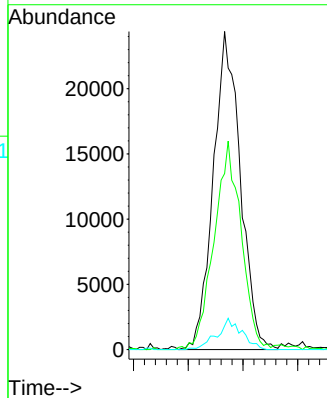
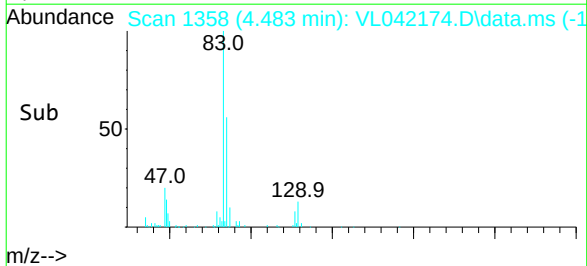
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025

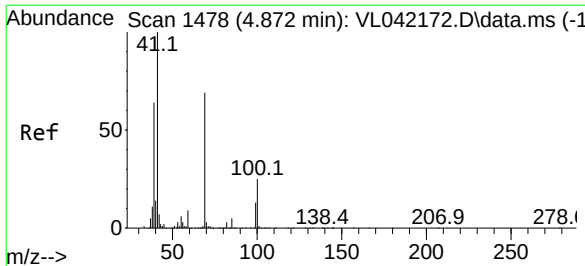


#42
Bromodichloromethane
Concen: 0.996 ppbv
RT: 4.483 min Scan# 1358
Delta R.T. 0.000 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30



Tgt Ion: 83 Resp: 41864
Ion Ratio Lower Upper
83 100
85 54.7 50.5 75.7
127 7.5 5.9 8.9





#43

Methyl Methacrylate

Concen: 1.078 ppbv m

RT: 4.875 min Scan# 14

Delta R.T. 0.003 min

Lab File: VL042174.D

Acq: 27 Mar 2025 09:30

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC001

Tgt Ion: 69 Resp: 24233

Ion Ratio Lower Upper

69 100

41 146.1 123.8 185.6

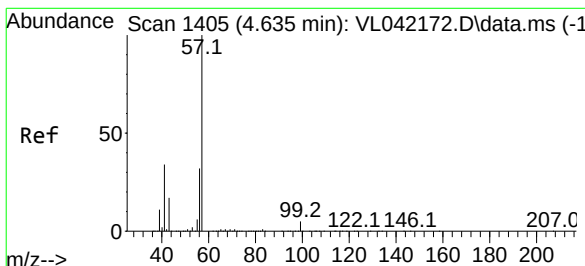
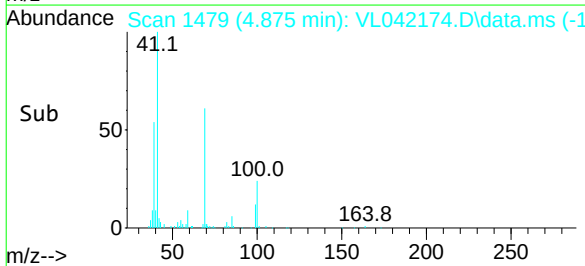
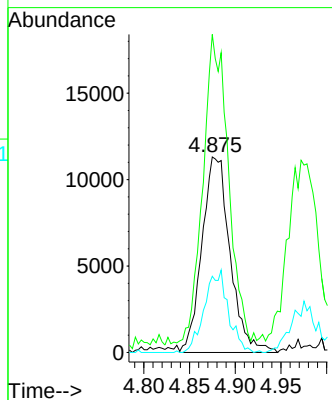
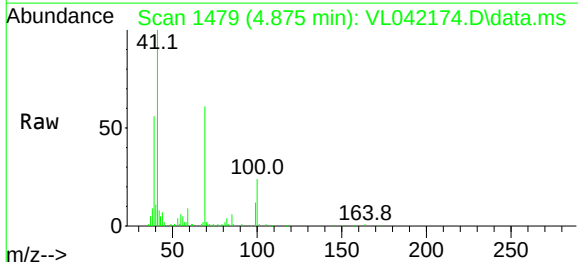
100 0.0 28.4 42.6#

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 03/31/2025

Supervised By :Mahesh Dadoda 04/03/2025



#44

2,2,4-Trimethylpentane

Concen: 1.008 ppbv

RT: 4.632 min Scan# 1404

Delta R.T. -0.003 min

Lab File: VL042174.D

Acq: 27 Mar 2025 09:30

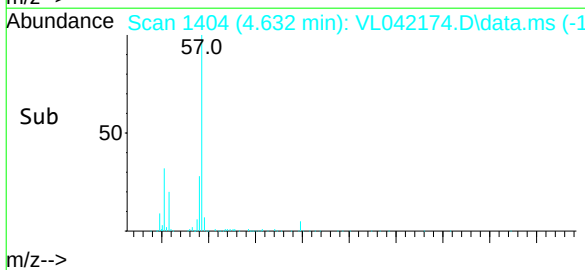
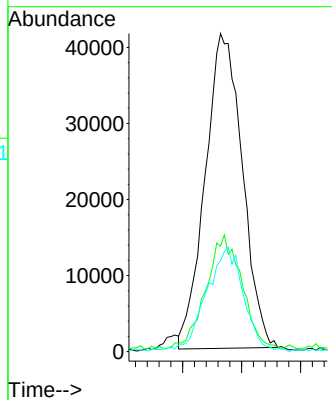
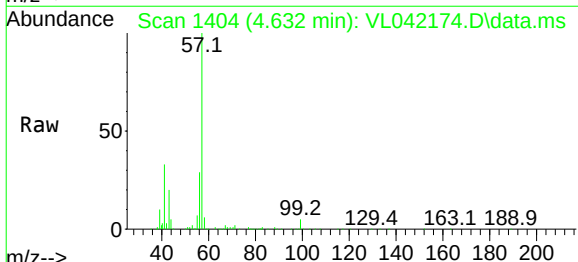
Tgt Ion: 57 Resp: 90727

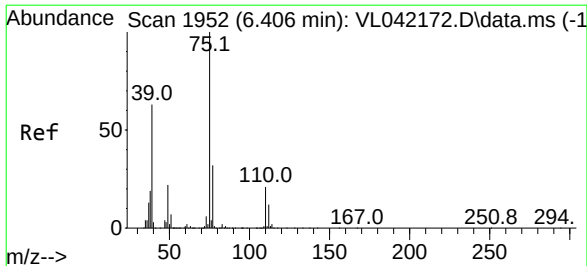
Ion Ratio Lower Upper

57 100

41 35.9 26.8 40.2

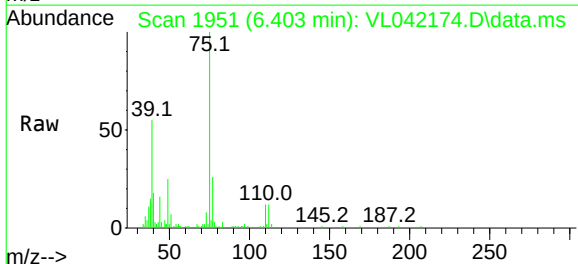
56 33.7 25.6 38.4





#45
t-1,3-Dichloropropene
Concen: 0.992 ppbv m
RT: 6.403 min Scan# 1952
Delta R.T. -0.003 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

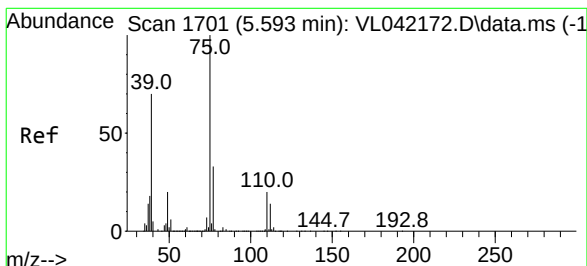
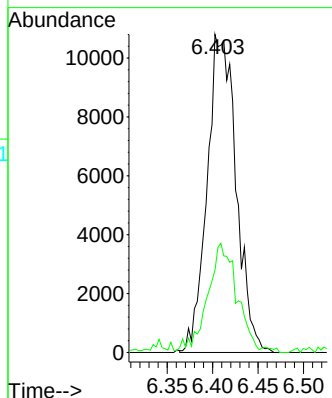
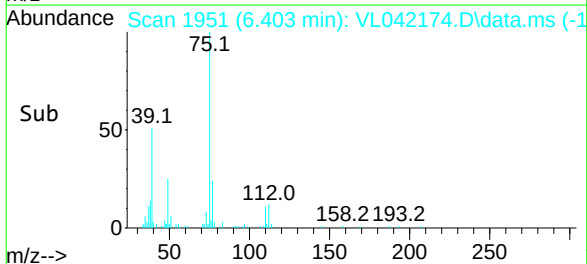
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001



Tgt Ion: 75 Resp: 23993
Ion Ratio Lower Upper
75 100
77 25.9 26.0 39.0

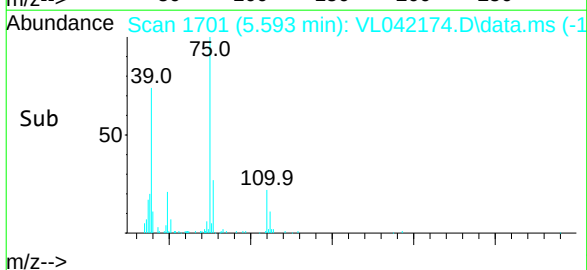
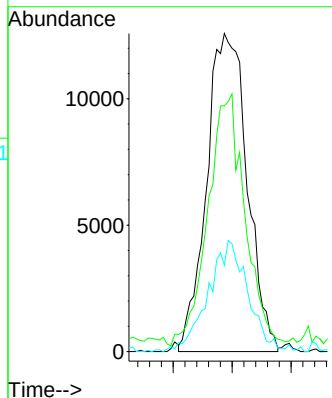
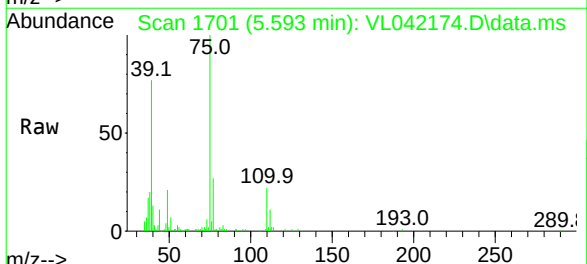
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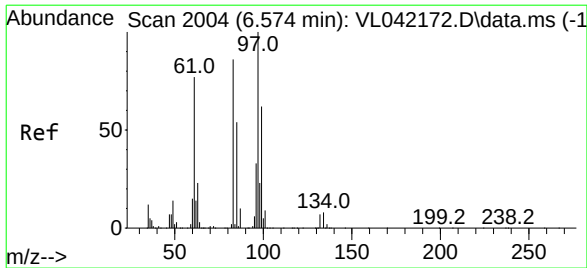
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#46
cis-1,3-Dichloropropene
Concen: 1.014 ppbv
RT: 5.593 min Scan# 1701
Delta R.T. 0.000 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

Tgt Ion: 75 Resp: 30063
Ion Ratio Lower Upper
75 100
39 74.2 55.8 83.6
77 26.4 26.0 39.0





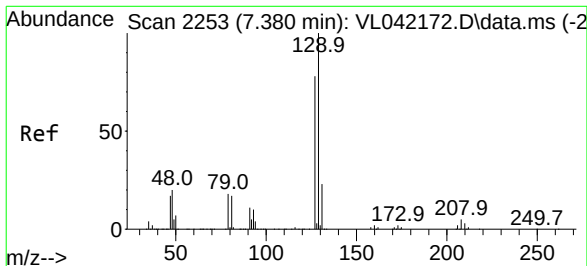
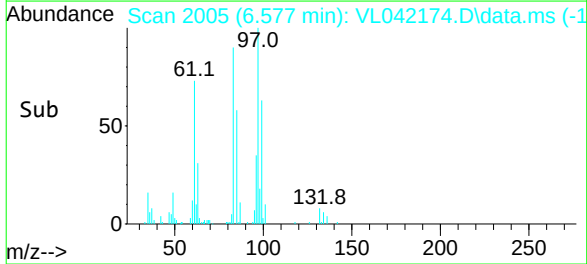
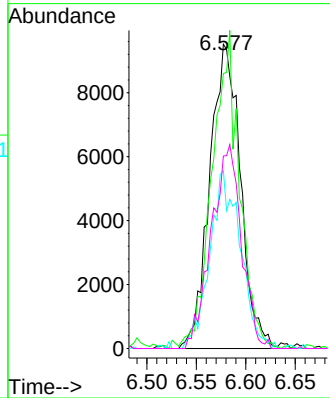
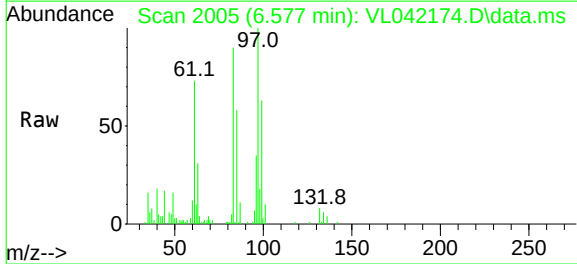
#47
1,1,2-Trichloroethane
Concen: 1.002 ppbv
RT: 6.577 min Scan# 20546
Delta R.T. 0.003 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tgt Ion	Ratio	Lower	Upper
97	100		
83	89.7	69.2	103.8
85	58.4	43.1	64.7
99	63.2	49.4	74.2

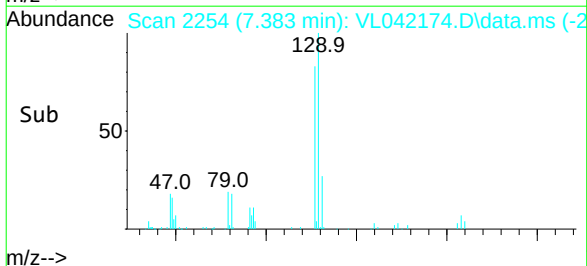
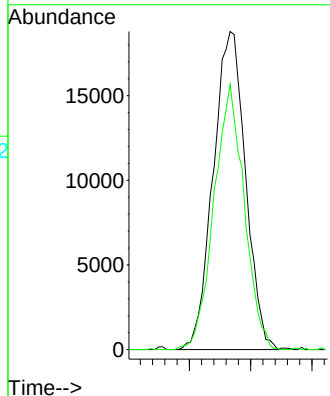
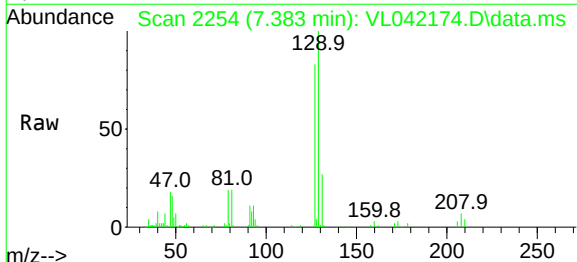
Manual Integrations
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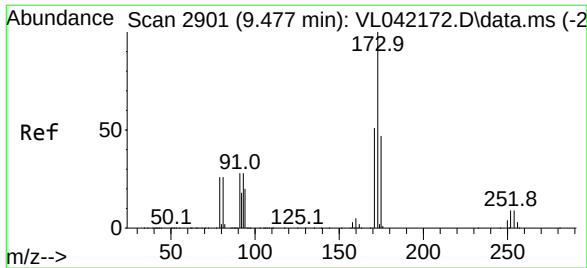
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#48
Dibromochloromethane
Concen: 0.991 ppbv
RT: 7.383 min Scan# 2254
Delta R.T. 0.003 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

Tgt Ion	Ratio	Lower	Upper
129	100		
127	78.1	39.1	117.2





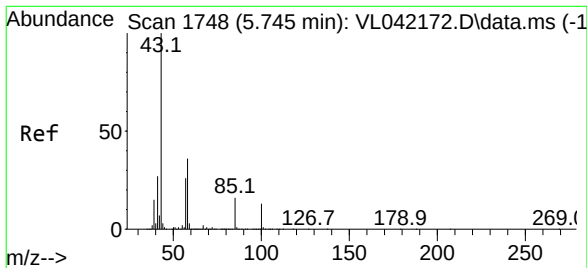
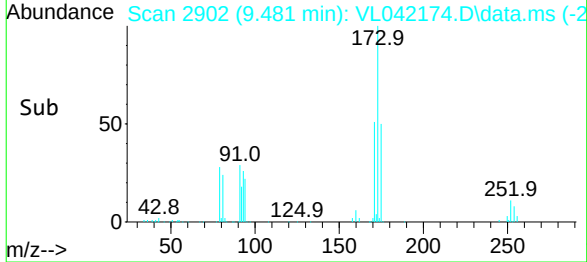
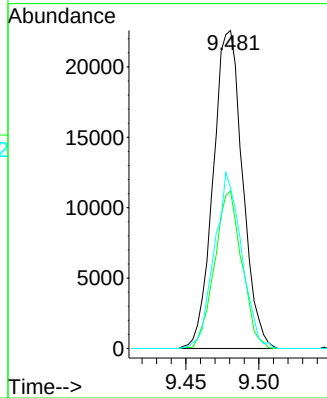
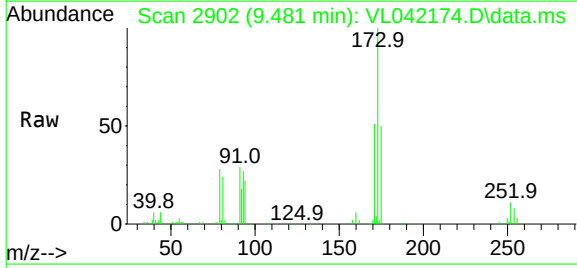
#49
Bromoform
Concen: 1.013 ppbv
RT: 9.481 min Scan# 2901
Delta R.T. 0.003 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tgt Ion: 173 Resp: 31610
Ion Ratio Lower Upper
173 100
175 46.1 38.6 57.8
171 51.3 41.8 62.6

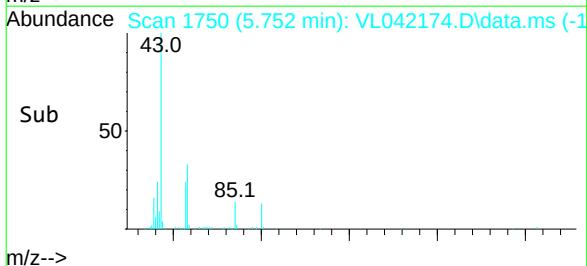
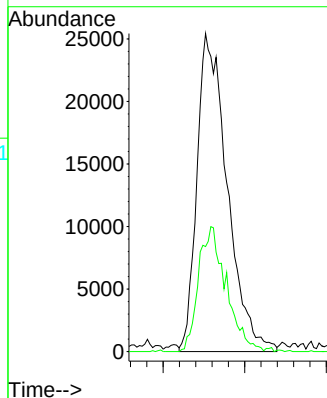
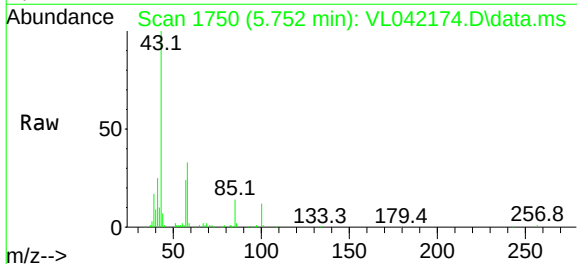
Manual Integrations
APPROVED

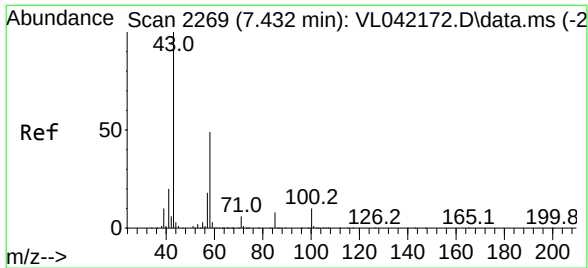
Reviewed By : Semsettin Yesilyurt 03/31/2025
Supervised By : Mahesh Dadoda 04/03/2025



#50
4-Methyl-2-Pentanone
Concen: 1.056 ppbv m
RT: 5.752 min Scan# 1750
Delta R.T. 0.007 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

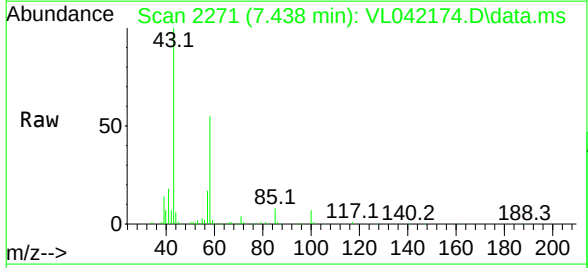
Tgt Ion: 43 Resp: 65226
Ion Ratio Lower Upper
43 100
58 0.0 29.0 43.6





#51
2-Hexanone
Concen: 1.067 ppbv
RT: 7.438 min Scan# 2269
Delta R.T. 0.007 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

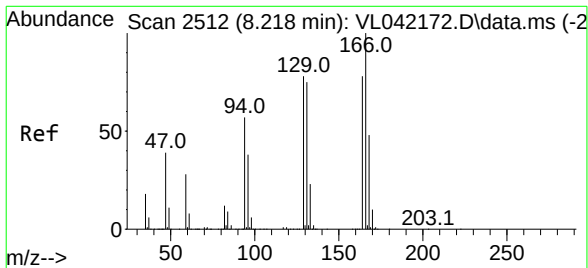
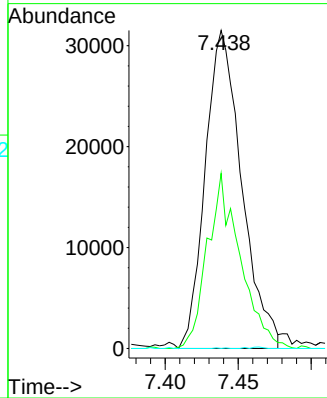
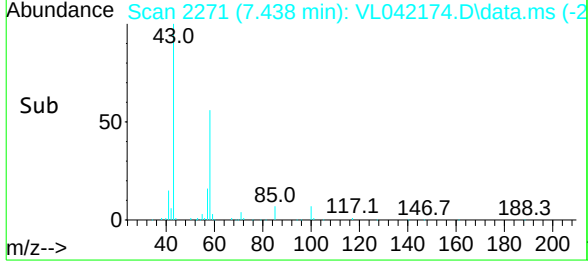
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001



Tgt Ion: 43 Resp: 54680
Ion Ratio Lower Upper
43 100
58 49.8 39.7 59.5
98 0.2 0.1 0.1#

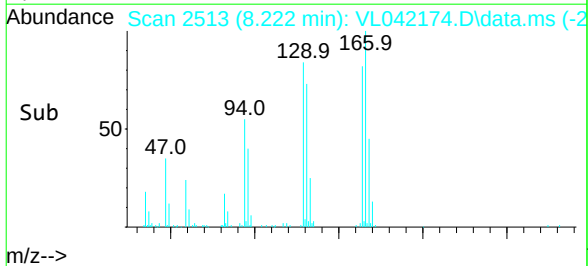
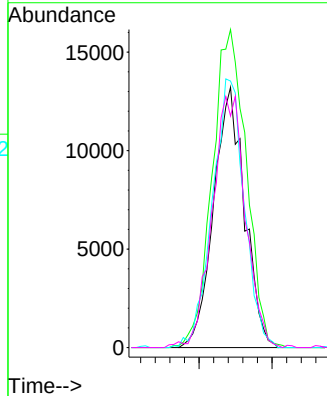
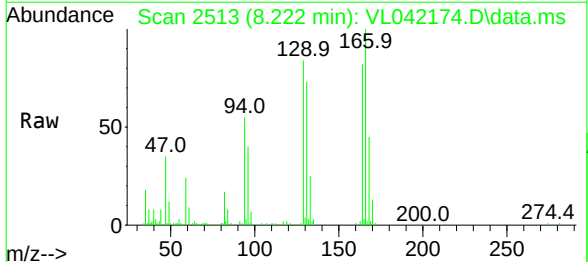
Manual Integrations
APPROVED

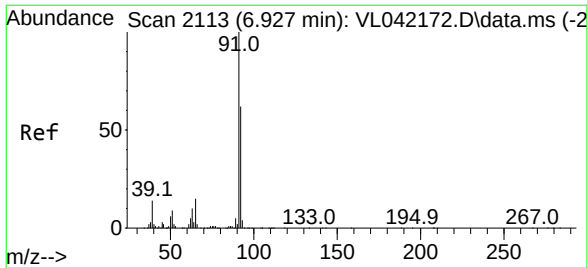
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#52
Tetrachloroethene
Concen: 0.919 ppbv
RT: 8.222 min Scan# 2513
Delta R.T. 0.003 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

Tgt Ion:164 Resp: 19415
Ion Ratio Lower Upper
164 100
166 121.4 102.5 153.7
129 102.4 79.8 119.8
131 88.1 76.6 114.8





#53

Toluene

Concen: 1.023 ppbv

RT: 6.927 min Scan# 2113

Delta R.T. 0.000 min

Lab File: VL042174.D

Acq: 27 Mar 2025 09:30

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC001

Tgt Ion: 91 Resp: 64612

Ion Ratio Lower Upper

91 100

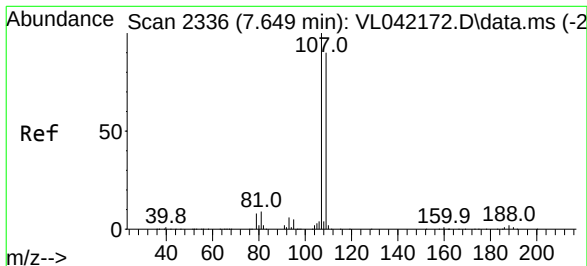
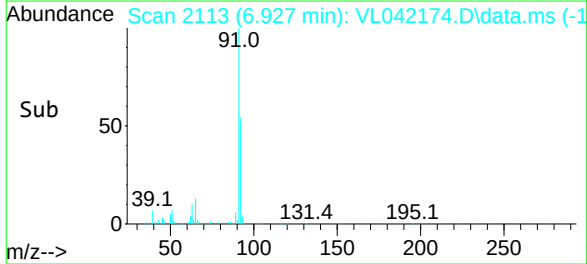
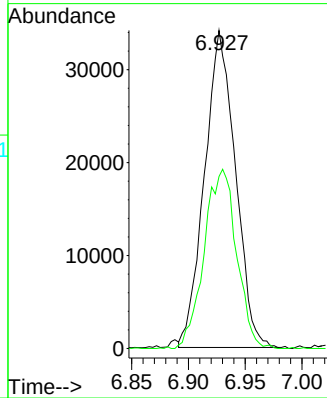
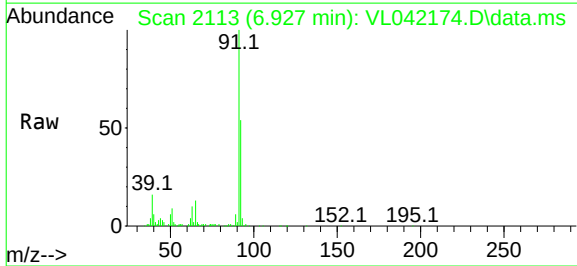
92 59.4 48.4 72.6

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 03/31/2025

Supervised By :Mahesh Dadoda 04/03/2025



#54

1,2-Dibromoethane

Concen: 1.009 ppbv

RT: 7.652 min Scan# 2337

Delta R.T. 0.003 min

Lab File: VL042174.D

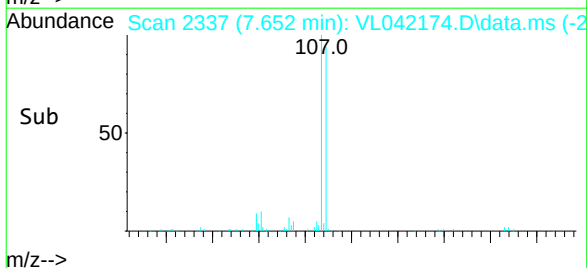
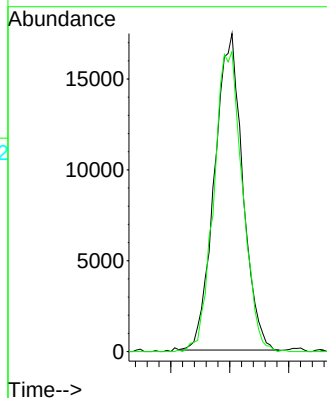
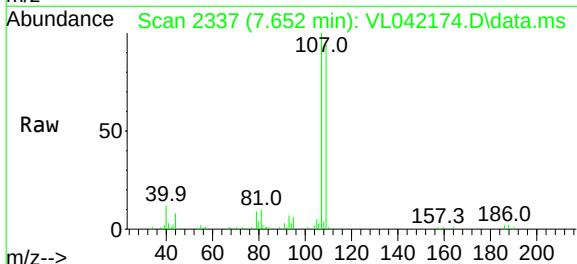
Acq: 27 Mar 2025 09:30

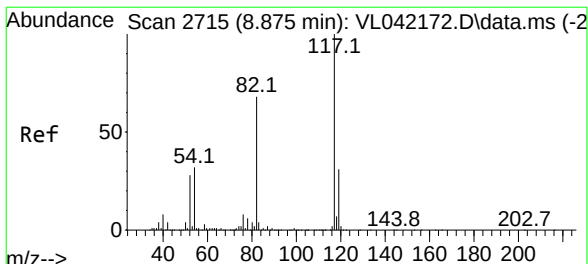
Tgt Ion:107 Resp: 28879

Ion Ratio Lower Upper

107 100

109 94.8 72.2 108.4





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.879 min Scan# 2715
Delta R.T. 0.003 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

Instrument :

MSVOA_L

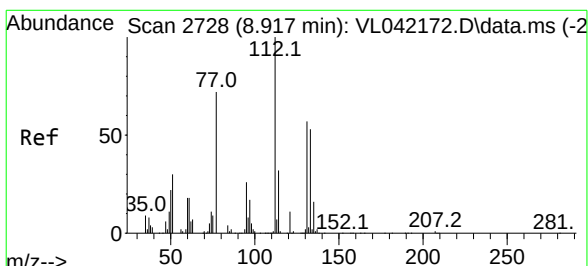
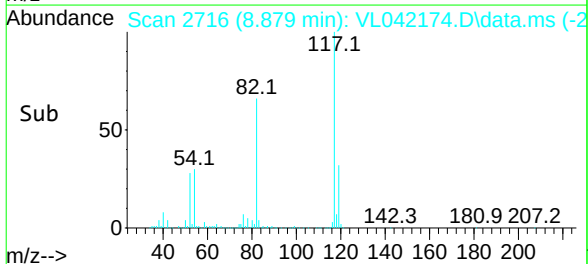
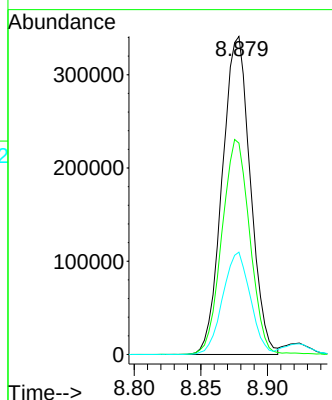
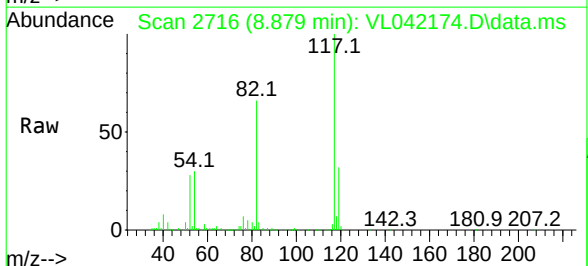
ClientSampleId :

VSTDIC001

Tgt Ion:	117	Resp:	499836
Ion	Ratio	Lower	Upper
117	100		
82	67.6	55.8	83.6
119	32.2	25.5	38.3

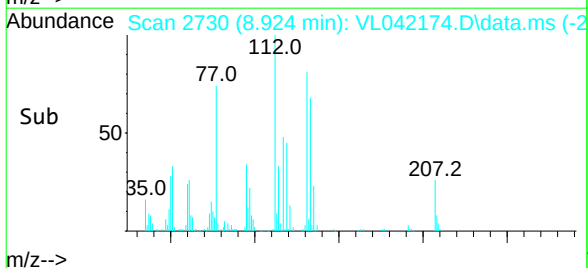
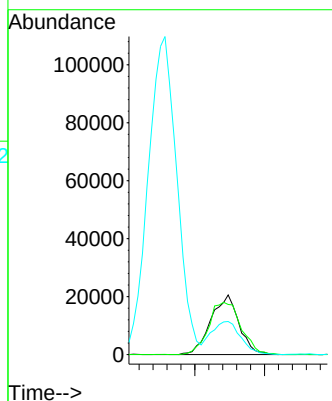
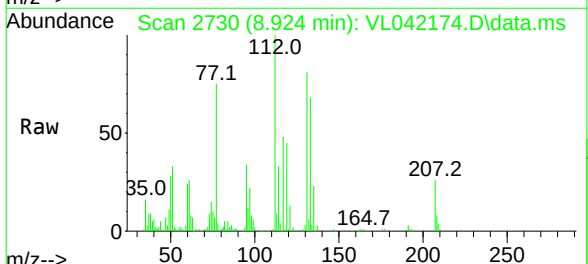
Manual Integrations
APPROVED

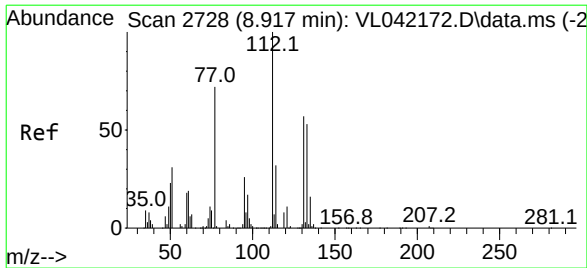
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#56
1,1,1,2-Tetrachloroethane
Concen: 1.045 ppbv
RT: 8.924 min Scan# 2730
Delta R.T. 0.007 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

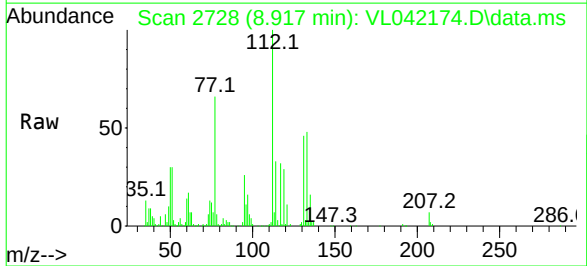
Tgt Ion:	131	Resp:	28764
Ion	Ratio	Lower	Upper
131	100		
133	101.7	76.6	114.8
119	44.1	49.8	74.6#





#57
Chlorobenzene
Concen: 1.032 ppbv
RT: 8.917 min Scan# 2728
Delta R.T. 0.000 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

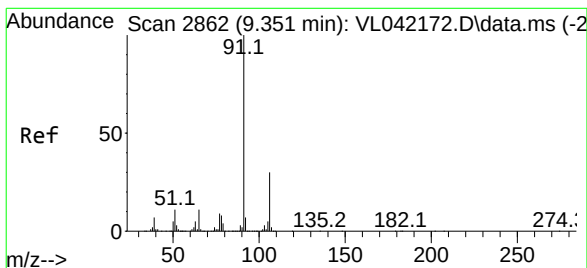
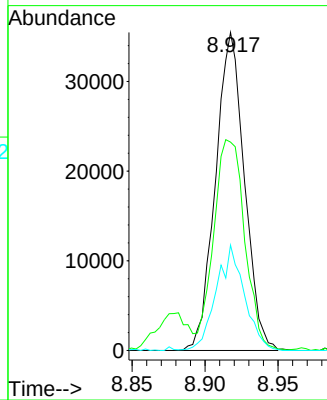
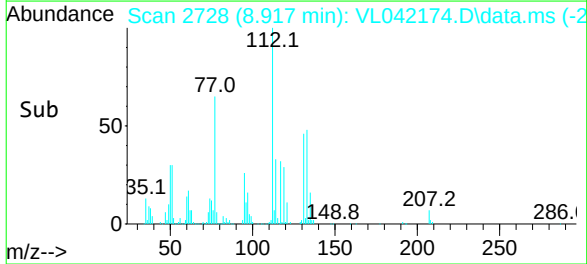
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001



Tgt Ion: 112 Resp: 48936
Ion Ratio Lower Upper
112 100
77 65.0 58.2 87.2
114 32.9 29.1 35.5

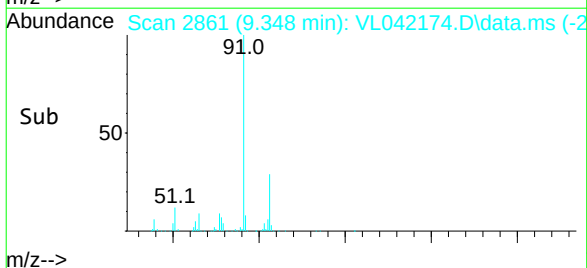
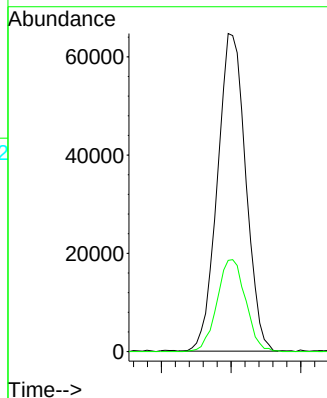
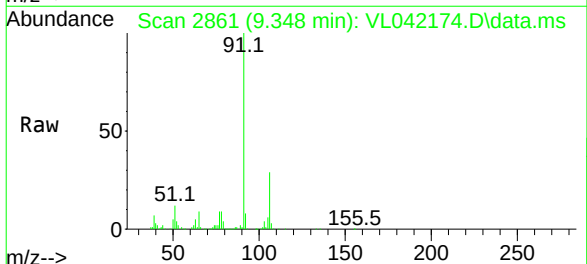
Manual Integrations
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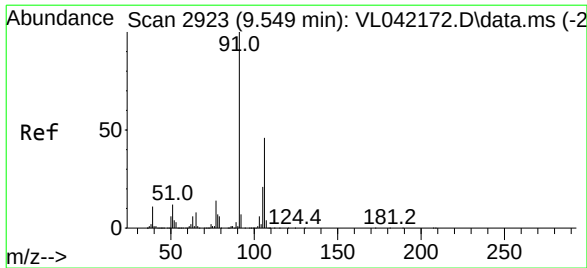
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#58
Ethyl Benzene
Concen: 1.026 ppbv
RT: 9.348 min Scan# 2861
Delta R.T. -0.003 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

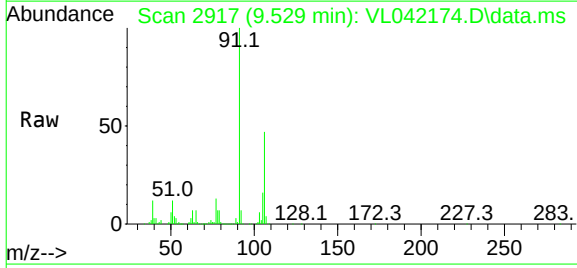
Tgt Ion: 91 Resp: 91086
Ion Ratio Lower Upper
91 100
106 28.7 24.2 36.2





#59
m/p-Xylene
Concen: 2.073 ppbv m
RT: 9.529 min Scan# 2917
Delta R.T. -0.019 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

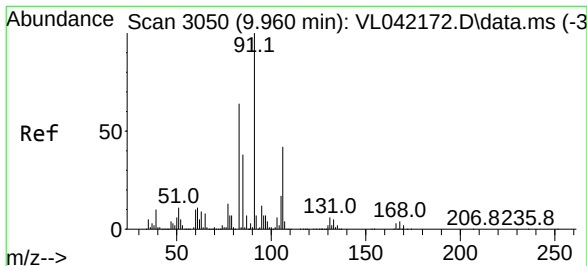
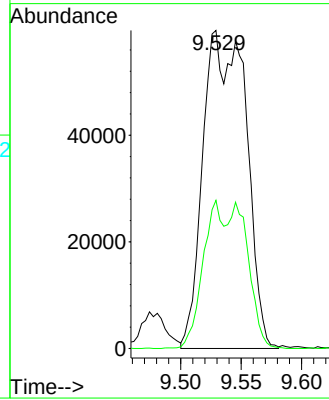
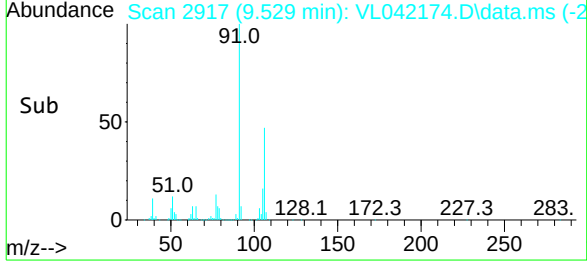
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001



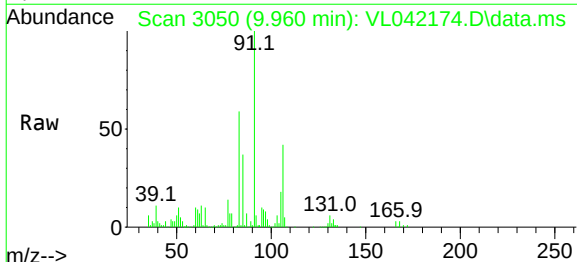
Tgt Ion: 91 Resp: 147162
Ion Ratio Lower Upper
91 100
106 0.0 36.4 54.6

Manual Integrations
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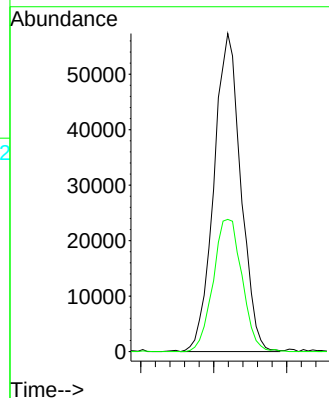
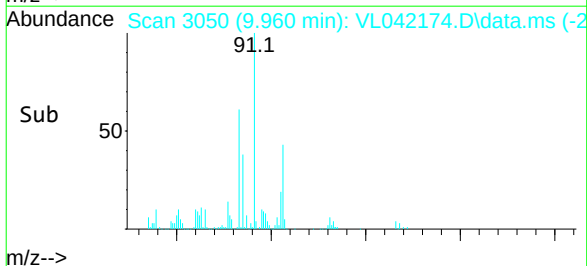
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025

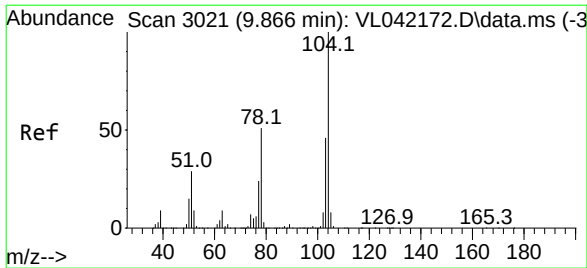


#60
o-Xylene
Concen: 1.037 ppbv
RT: 9.960 min Scan# 3050
Delta R.T. 0.000 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30



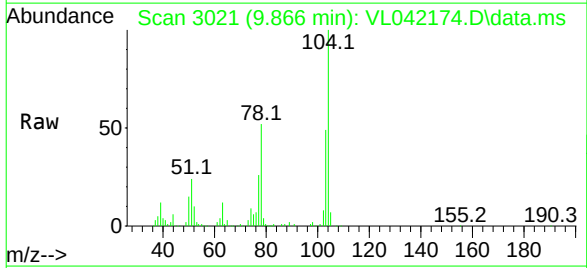
Tgt Ion: 91 Resp: 73702
Ion Ratio Lower Upper
91 100
106 44.3 20.8 62.5





#61
Styrene
Concen: 1.027 ppbv
RT: 9.866 min Scan# 3021
Delta R.T. 0.000 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

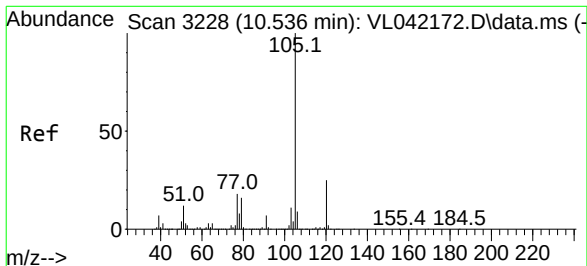
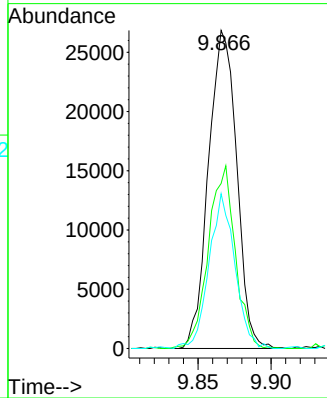
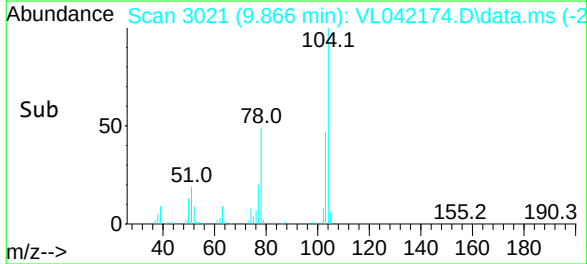
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001



Tgt Ion:104 Resp: 36110
Ion Ratio Lower Upper
104 100
78 54.9 41.8 62.6
103 45.1 37.0 55.4

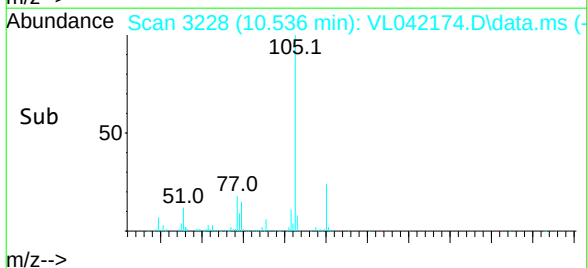
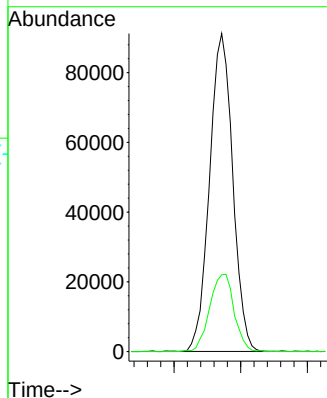
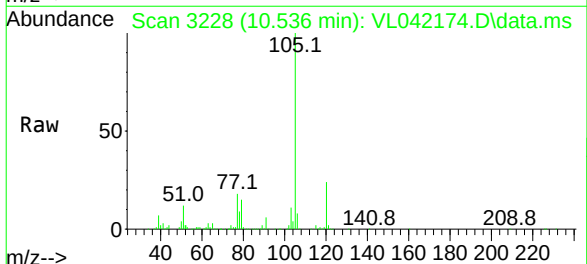
Manual Integrations
APPROVED

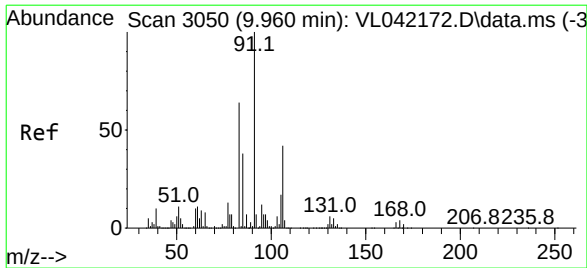
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#62
Isopropylbenzene
Concen: 1.034 ppbv
RT: 10.536 min Scan# 3228
Delta R.T. 0.000 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

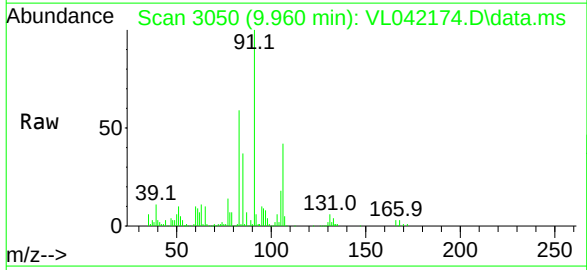
Tgt Ion:105 Resp: 109897
Ion Ratio Lower Upper
105 100
120 25.7 19.9 29.9





#63
1,1,2,2-Tetrachloroethane
Concen: 1.029 ppbv
RT: 9.960 min Scan# 3050
Delta R.T. 0.000 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

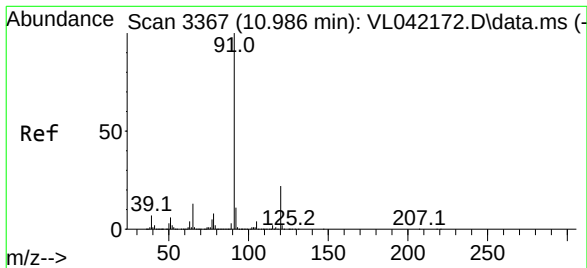
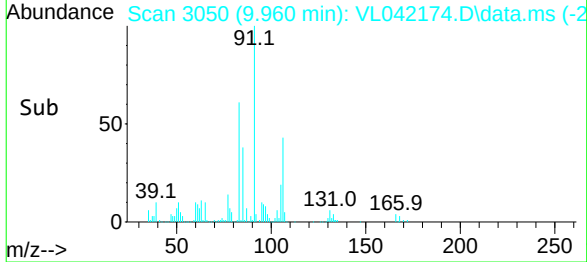
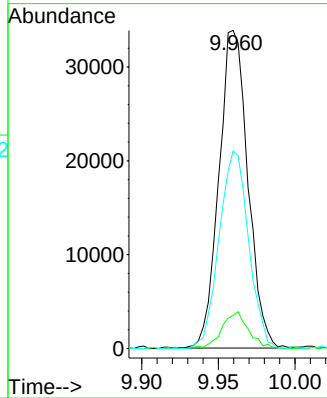
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001



Tgt Ion	Ratio	Lower	Upper
83	100		
131	10.6	4.8	14.4
85	64.0	32.5	97.5

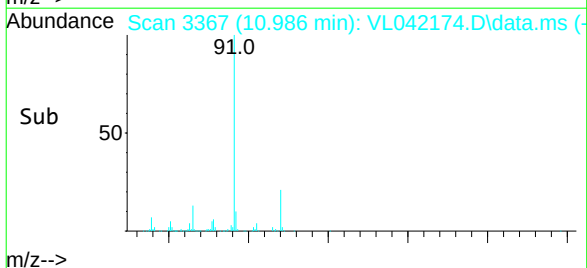
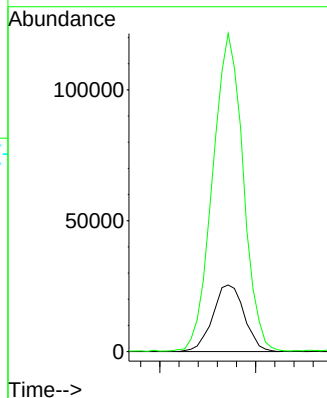
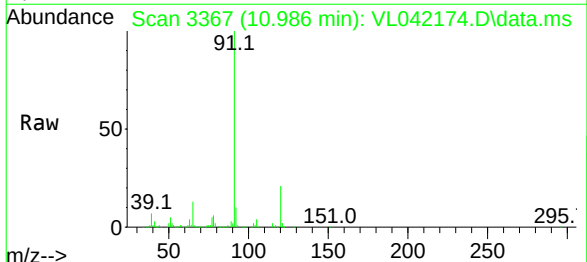
Manual Integrations
APPROVED

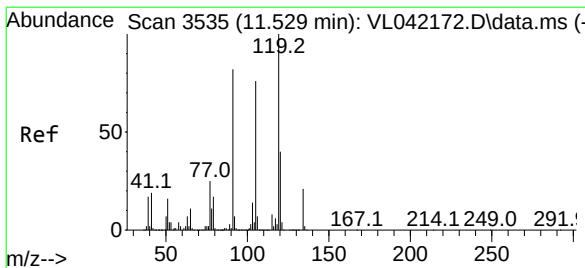
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#64
n-propylbenzene
Concen: 1.062 ppbv
RT: 10.986 min Scan# 3367
Delta R.T. 0.000 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

Tgt Ion	Ratio	Lower	Upper
120	100		
91	466.9	376.9	565.3





#65

tert-Butylbenzene

Concen: 1.053 ppbv

RT: 11.526 min Scan# 3535

Delta R.T. -0.003 min

Lab File: VL042174.D

Acq: 27 Mar 2025 09:30

Instrument :

MSVOA_L

ClientSampleId :

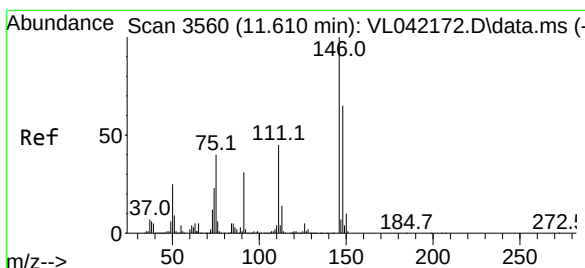
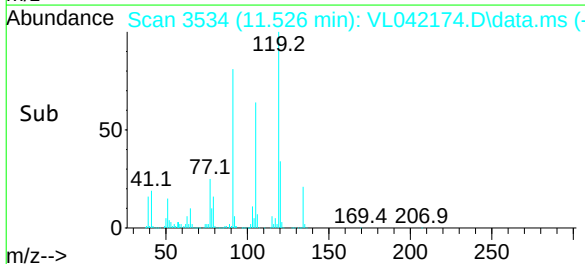
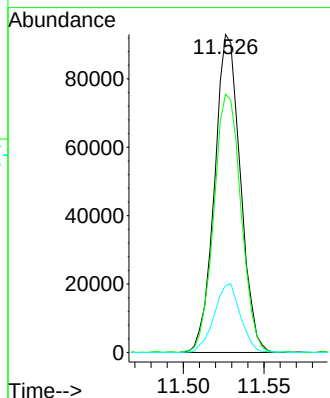
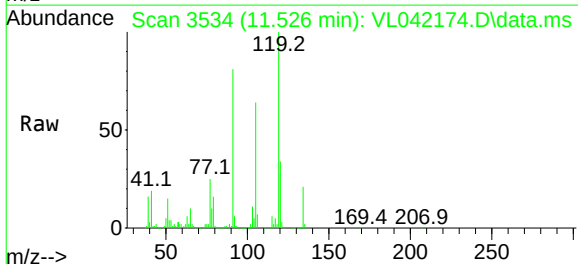
VSTDIC001

Tgt Ion:	119	Resp:	103520
Ion Ratio	Lower	Upper	
119	100		
91	85.9	66.0	99.0
134	22.1	16.7	25.1

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#66

Benzyl Chloride

Concen: 1.022 ppbv

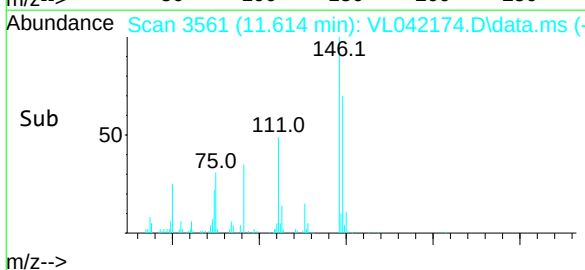
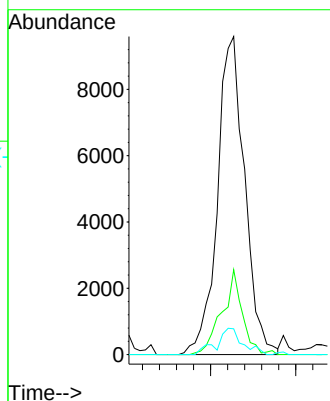
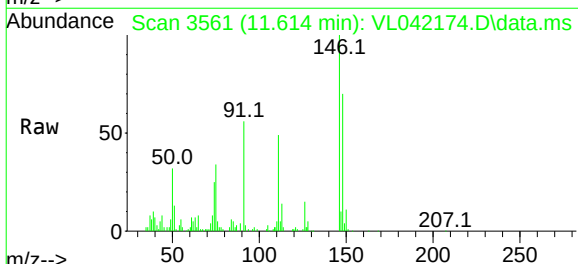
RT: 11.614 min Scan# 3561

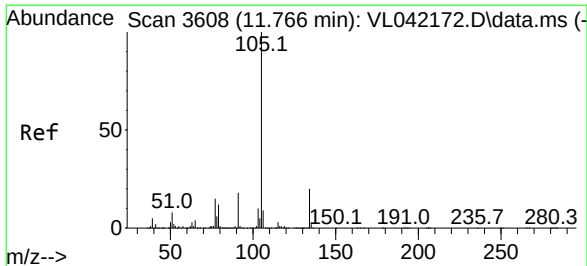
Delta R.T. 0.003 min

Lab File: VL042174.D

Acq: 27 Mar 2025 09:30

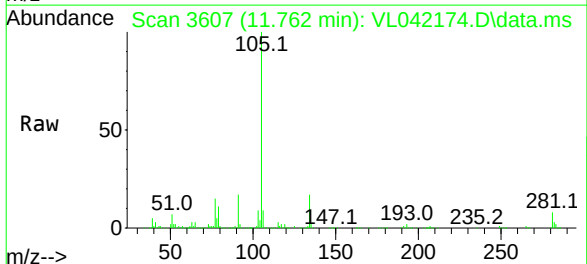
Tgt Ion:	91	Resp:	10660
Ion Ratio	Lower	Upper	
91	100		
126	20.0	13.8	20.6
128	8.0	4.5	6.7





#67
 sec-Butylbenzene
 Concen: 1.095 ppbv
 RT: 11.762 min Scan# 3608
 Delta R.T. -0.003 min
 Lab File: VL042174.D
 Acq: 27 Mar 2025 09:30

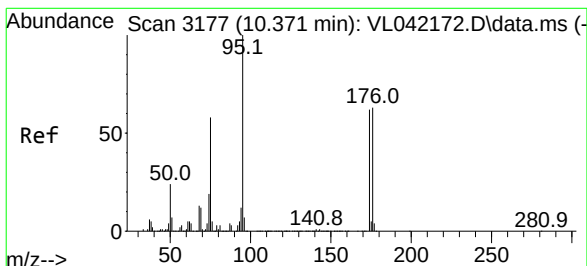
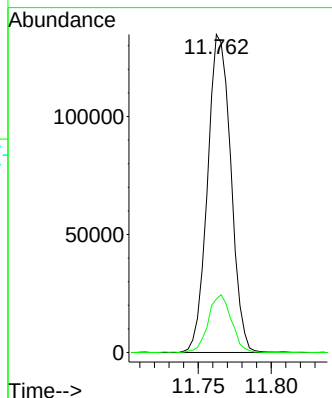
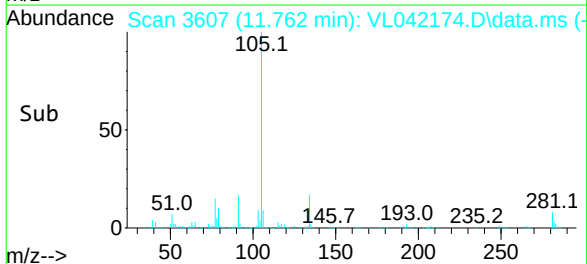
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001



Tgt Ion: 105 Resp: 149660
 Ion Ratio Lower Upper
 105 100
 134 18.1 15.5 23.3

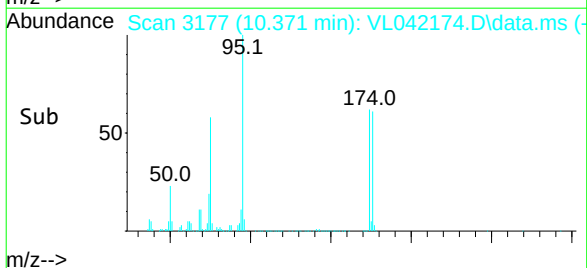
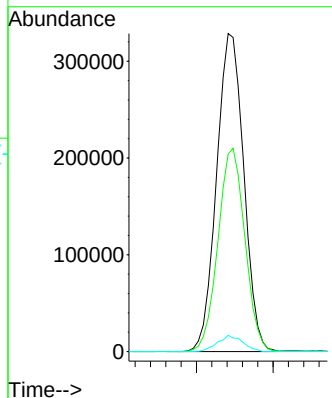
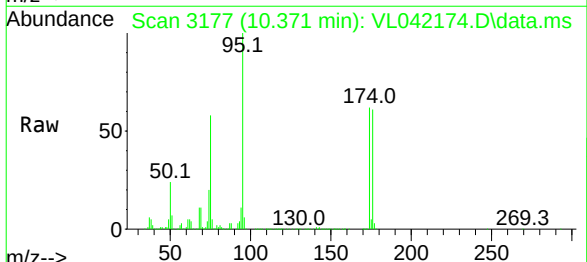
Manual Integrations
 APPROVED

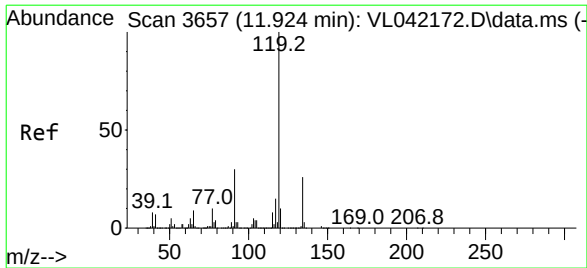
Reviewed By : Semsettin Yesilyurt 03/31/2025
 Supervised By : Mahesh Dadoda 04/03/2025



#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.861 ppbv
 RT: 10.371 min Scan# 3177
 Delta R.T. 0.000 min
 Lab File: VL042174.D
 Acq: 27 Mar 2025 09:30

Tgt Ion: 95 Resp: 404753
 Ion Ratio Lower Upper
 95 100
 174 63.4 50.6 76.0
 175 4.7 3.8 5.6





#69

p-Isopropyltoluene

Concen: 1.084 ppbv

RT: 11.921 min Scan# 3656

Delta R.T. -0.003 min

Lab File: VL042174.D

Acq: 27 Mar 2025 09:30

Instrument :

MSVOA_L

ClientSampleId :

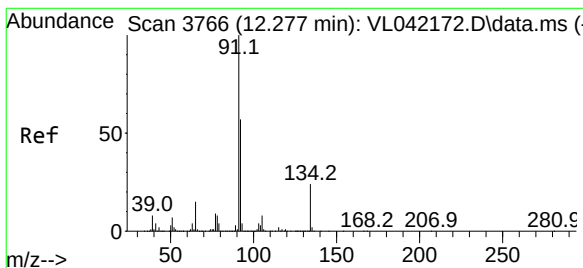
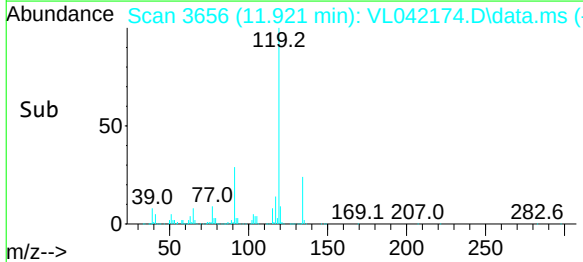
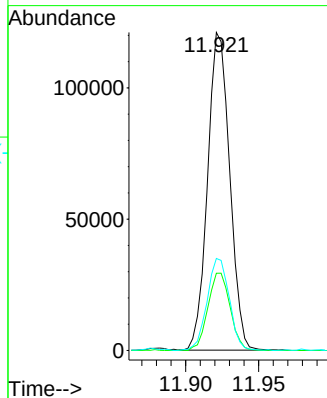
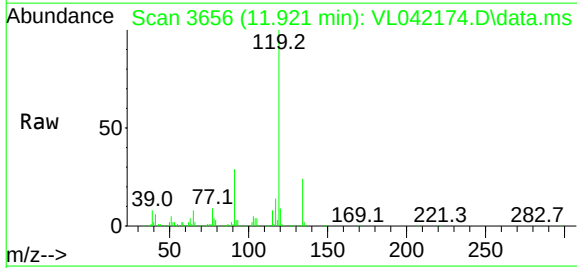
VSTDICC001

Tgt Ion:	119	Resp:	127509
Ion	Ratio	Lower	Upper
119	100		
134	24.6	20.4	30.6
91	30.0	23.7	35.5

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#70

n-Butylbenzene

Concen: 1.079 ppbv

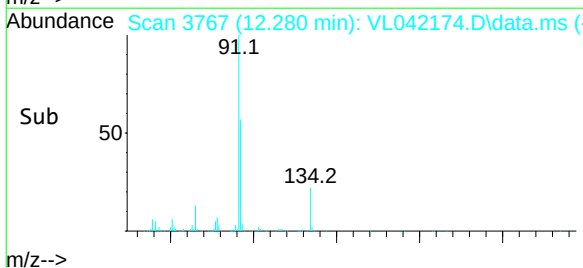
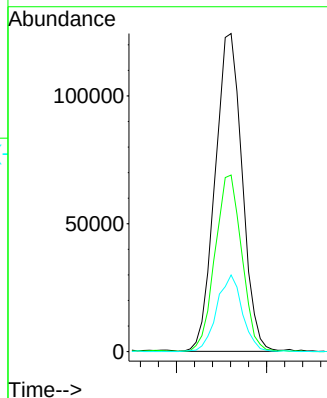
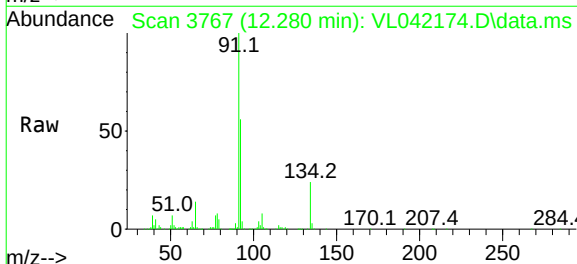
RT: 12.280 min Scan# 3767

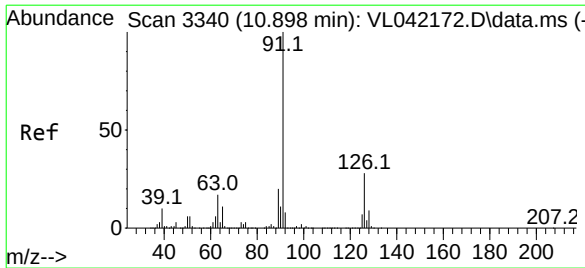
Delta R.T. 0.003 min

Lab File: VL042174.D

Acq: 27 Mar 2025 09:30

Tgt Ion:	91	Resp:	129860
Ion	Ratio	Lower	Upper
91	100		
92	55.5	44.9	67.3
134	22.8	19.2	28.8





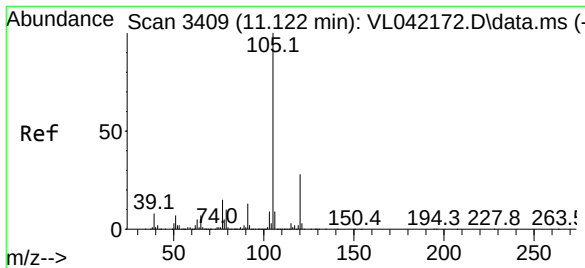
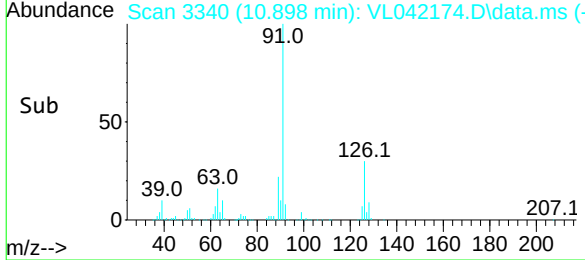
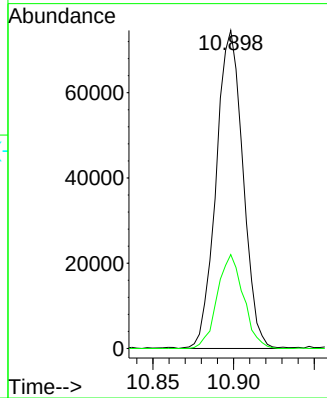
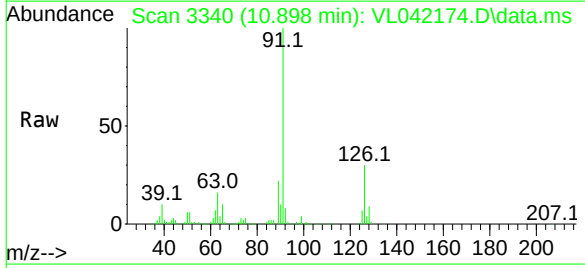
#71
2-Chlorotoluene
Concen: 1.047 ppbv
RT: 10.898 min Scan# 3340
Delta R.T. 0.000 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tgt Ion: 91 Resp: 86356
Ion Ratio Lower Upper
91 100
126 28.8 11.6 46.4

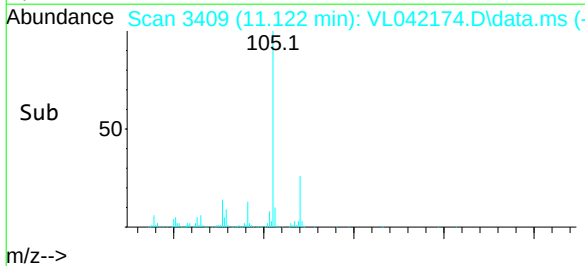
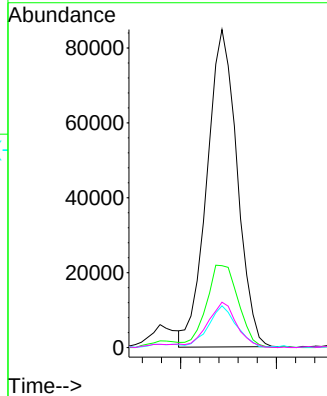
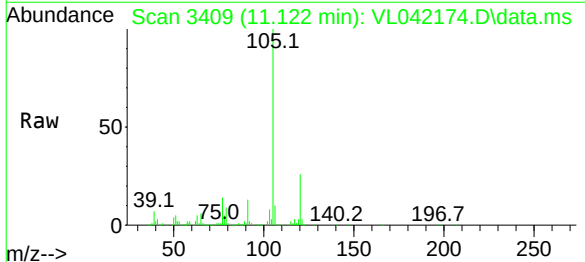
Manual Integrations
APPROVED

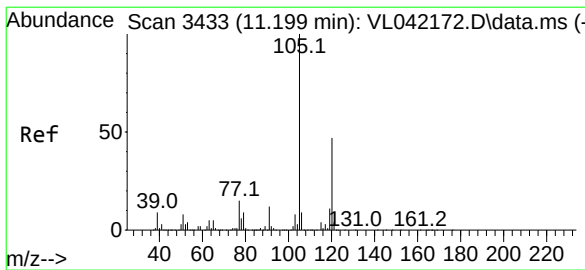
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#72
4-Ethyltoluene
Concen: 1.050 ppbv
RT: 11.122 min Scan# 3409
Delta R.T. 0.000 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

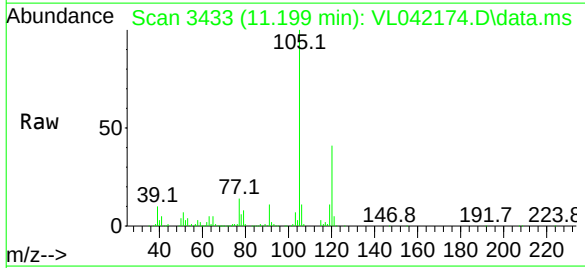
Tgt Ion:105 Resp: 92912
Ion Ratio Lower Upper
105 100
120 29.7 23.4 35.0
91 13.5 10.3 15.5
77 15.1 11.4 17.2





#73
1,3,5-Trimethylbenzene
Concen: 1.080 ppbv
RT: 11.199 min Scan# 3433
Delta R.T. 0.000 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

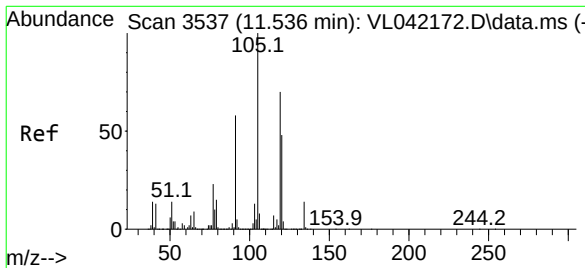
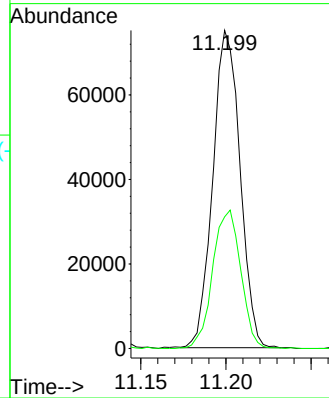
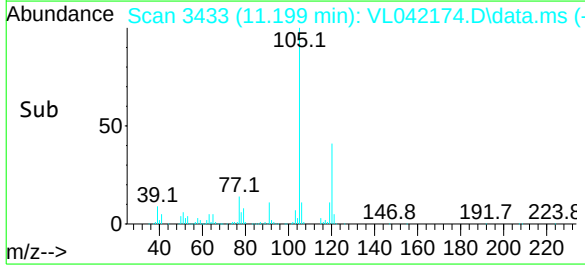
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001



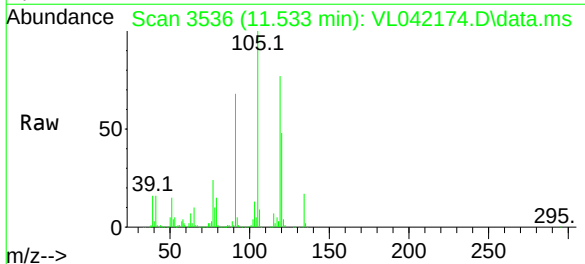
Tgt Ion:105 Resp: 83497
Ion Ratio Lower Upper
105 100
120 41.3 37.4 56.0

Manual Integrations
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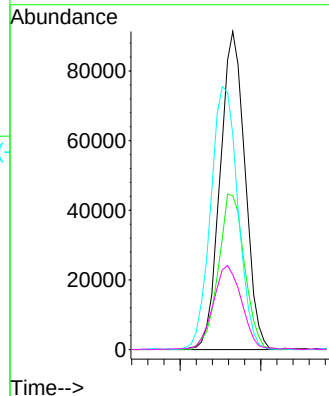
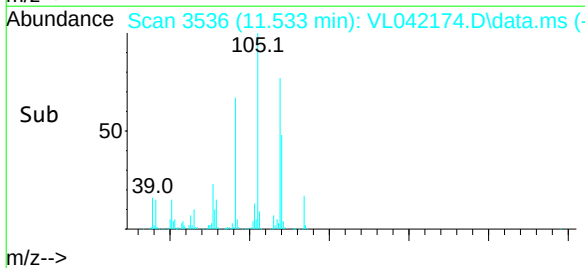
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025

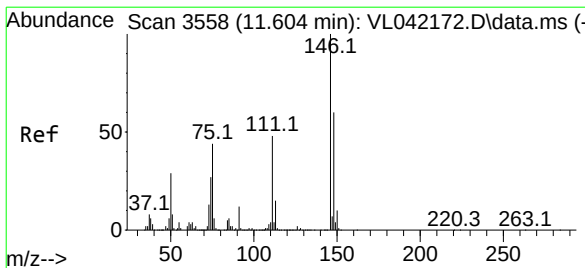


#74
1,2,4-Trimethylbenzene
Concen: 1.099 ppbv
RT: 11.533 min Scan# 3536
Delta R.T. -0.003 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30



Tgt Ion:105 Resp: 97858
Ion Ratio Lower Upper
105 100
120 48.4 38.6 58.0
91 67.6 46.2 69.2
77 23.4 18.6 27.8





#75

1,3-Dichlorobenzene

Concen: 1.046 ppbv

RT: 11.604 min Scan# 3558

Delta R.T. 0.000 min

Lab File: VL042174.D

Acq: 27 Mar 2025 09:30

Instrument :

MSVOA_L

ClientSampleId :

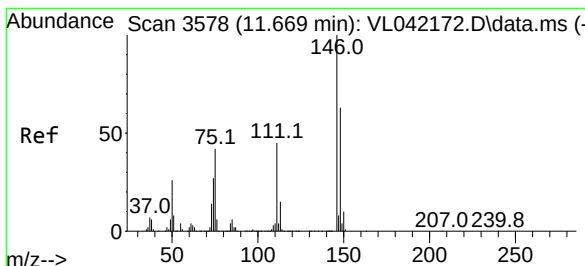
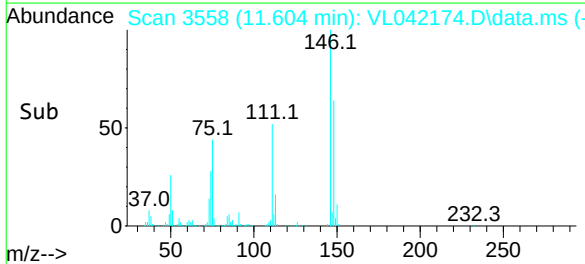
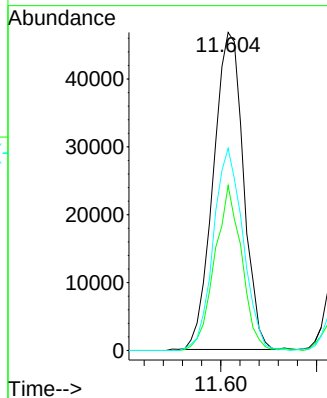
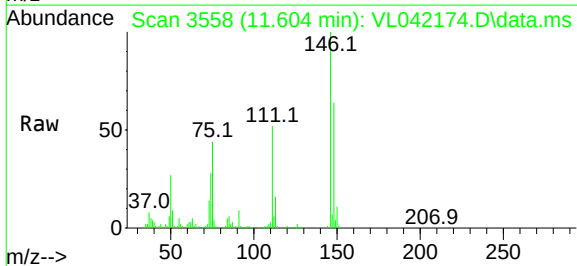
VSTDICC001

Tgt Ion:	146	Resp:	51096
Ion Ratio	Lower	Upper	
146	100		
111	46.8	23.8	71.2
148	62.6	31.9	95.9

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#76

1,4-Dichlorobenzene

Concen: 1.046 ppbv

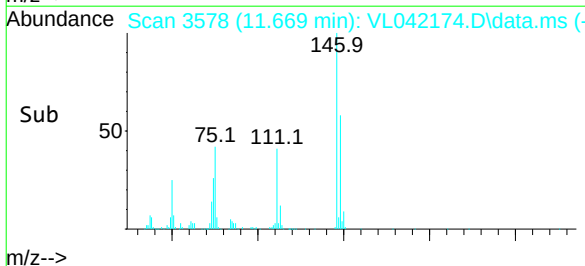
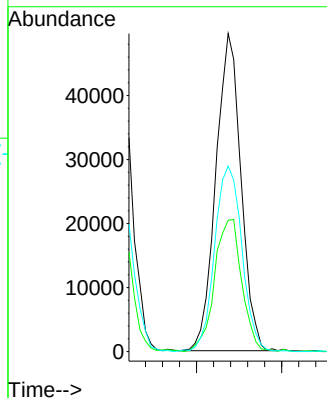
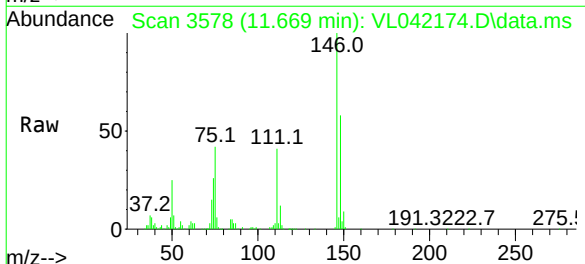
RT: 11.669 min Scan# 3578

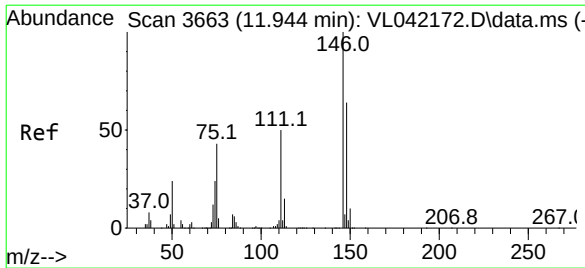
Delta R.T. 0.000 min

Lab File: VL042174.D

Acq: 27 Mar 2025 09:30

Tgt Ion:	146	Resp:	50841
Ion Ratio	Lower	Upper	
146	100		
111	45.4	23.0	69.0
148	63.6	31.9	95.7





#77

1,2-Dichlorobenzene

Concen: 1.084 ppbv

RT: 11.944 min Scan# 3663

Delta R.T. 0.000 min

Lab File: VL042174.D

Acq: 27 Mar 2025 09:30

Instrument :

MSVOA_L

ClientSampleId :

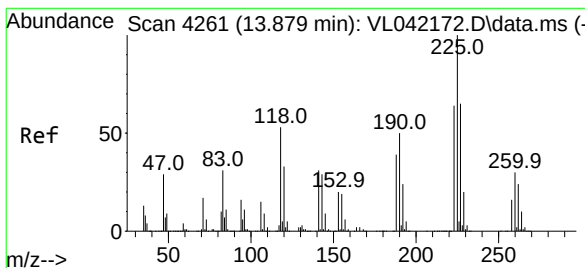
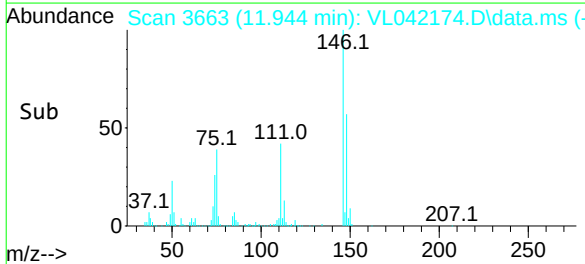
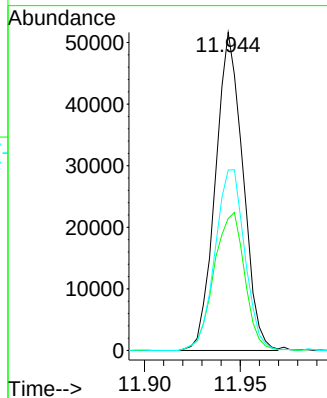
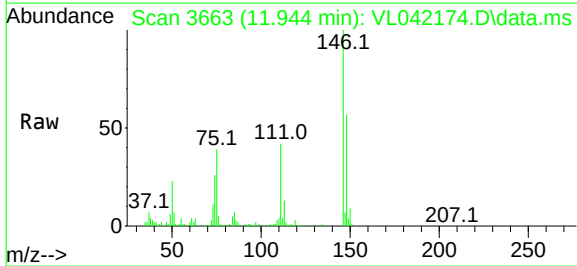
VSTDIC001

Tgt Ion:	146	Resp:	51523
Ion Ratio	Lower	Upper	
146	100		
111	48.6	24.8	74.3
148	61.9	31.6	94.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#78

Hexachloro-1,3-Butadiene

Concen: 1.149 ppbv

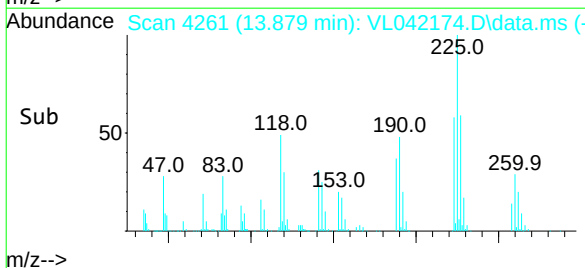
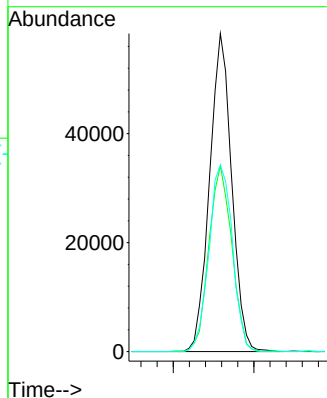
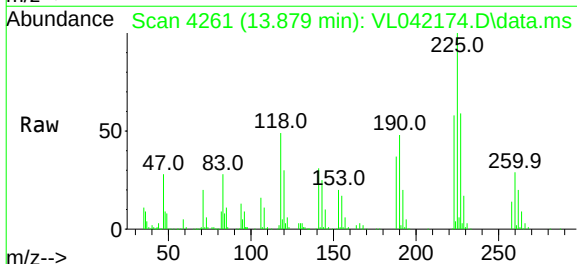
RT: 13.879 min Scan# 4261

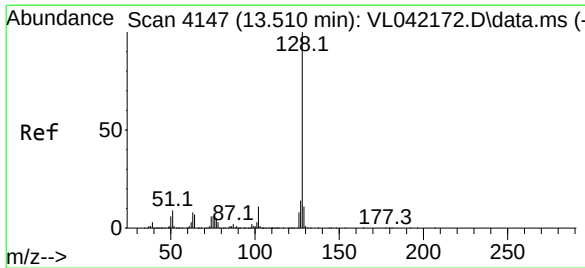
Delta R.T. 0.000 min

Lab File: VL042174.D

Acq: 27 Mar 2025 09:30

Tgt Ion:	225	Resp:	55611
Ion Ratio	Lower	Upper	
225	100		
223	60.8	50.6	76.0
227	62.3	51.2	76.8





#79

Naphthalene

Concen: 1.120 ppbv

RT: 13.510 min Scan# 4147

Delta R.T. 0.000 min

Lab File: VL042174.D

Acq: 27 Mar 2025 09:30

Instrument :

MSVOA_L

ClientSampleId :

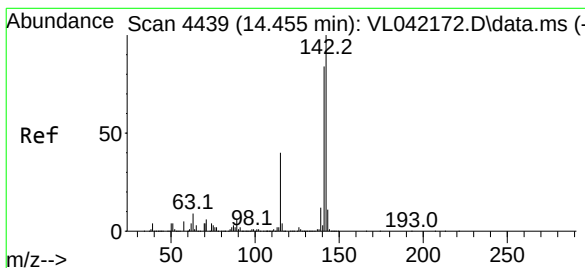
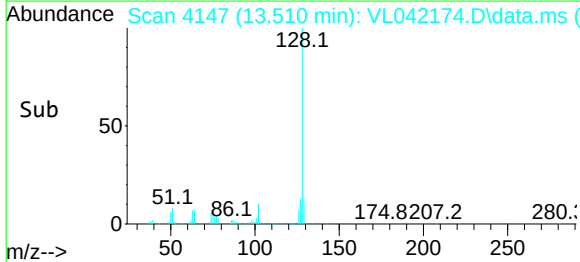
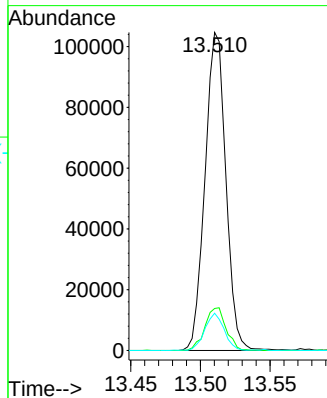
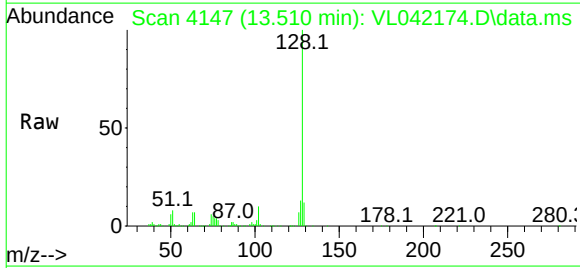
VSTDICC001

Tgt Ion:	128	Resp:	109031
Ion Ratio	Lower	Upper	
128	100		
127	13.2	10.8	16.2
129	11.7	9.0	13.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#80

Naphthalene,2-methyl-

Concen: 0.939 ppbv

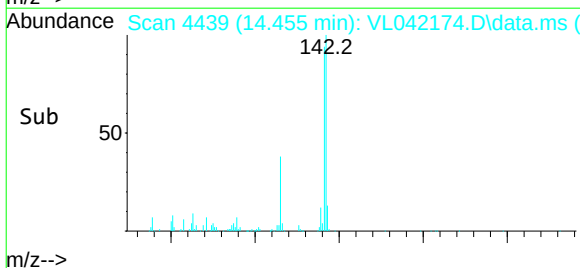
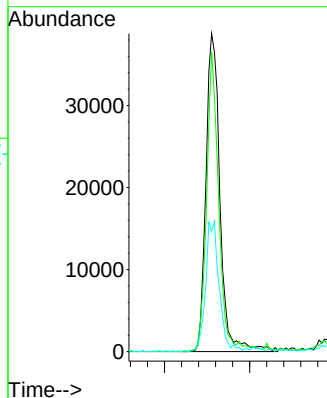
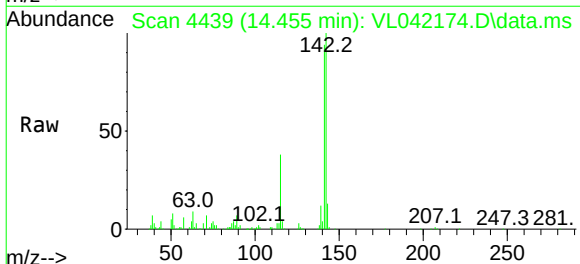
RT: 14.455 min Scan# 4439

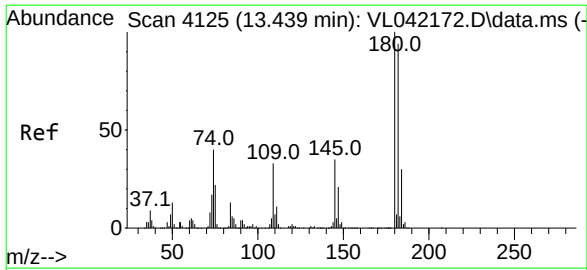
Delta R.T. 0.000 min

Lab File: VL042174.D

Acq: 27 Mar 2025 09:30

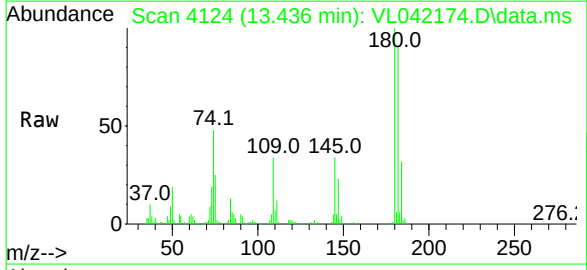
Tgt Ion:	142	Resp:	44518
Ion Ratio	Lower	Upper	
142	100		
141	83.4	66.3	99.5
115	41.5	31.6	47.4





#81
1,2,4-Trichlorobenzene
Concen: 1.047 ppbv
RT: 13.436 min Scan# 41
Delta R.T. -0.003 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

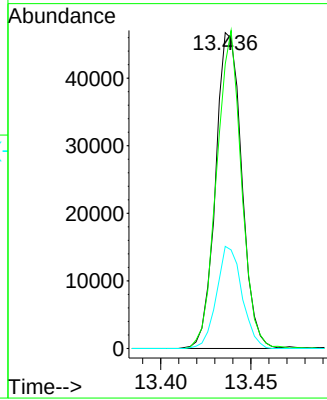
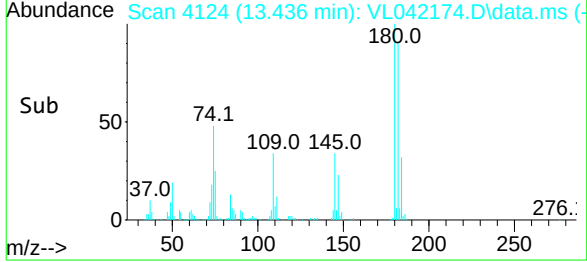
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001



Tgt Ion:180 Resp: 47040
Ion Ratio Lower Upper
180 100
182 95.7 75.1 112.7
184 31.4 24.4 36.6

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
 Data File : VL042175.D
 Acq On : 27 Mar 2025 10:01
 Operator : SY/MD
 Sample : VSTDICC0.5
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC0.5

Manual Integrations
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Quant Time: Mar 28 01:34:42 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M

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

QLast Update : Fri Mar 28 01:31:23 2025

Response via : Initial Calibration

Reviewed By : Semsettin Yesilyurt 03/31/2025
 Supervised By : Mahesh Dadoda 04/03/2025

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

Internal Standards						
1) Bromochloromethane	2.784	49	180502	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.952	114	523832	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.875	117	485078	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.370 95 403513 10.130 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 101.300%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.496	85	14455	0.542	ppbv	95
3) Chlorodifluoromethane	1.473	51	14637	0.538	ppbv #	89
4) Chloromethane	1.531	50	5956	0.547	ppbv	94
5) Vinyl Chloride	1.577	62	5732	0.516	ppbv	92
6) Bromomethane	1.664	94	2949	0.597	ppbv	95
7) Chloroethane	1.703	64	2582	0.591	ppbv #	87
8) Dichlorotetrafluoroethane	1.551	85	11783	0.519	ppbv	98
9) Propene	1.483	41	6622m	0.540	ppbv	
10) Heptane	4.972	43	16673	0.502	ppbv	89
11) Trichlorofluoromethane	1.874	101	14099	0.544	ppbv	92
12) 1,1,2-Trichlorotrifluo...	2.136	101	11252	0.528	ppbv	99
13) Ethanol	1.722	45	997	1.038	ppbv #	36
14) Bromoethene	1.780	108	4770	0.584	ppbv #	86
15) Acetone	1.835	43	15331	0.607	ppbv #	85
16) 1,3-Butadiene	1.606	39	8594	0.757	ppbv	82
17) tert-Butyl alcohol	2.039	59	17467	0.556	ppbv	97
18) 1,1-Dichloroethene	2.030	96	5634	0.565	ppbv #	92
19) Isopropyl Alcohol	1.884	45	9171	0.644	ppbv #	39
20) Methylene Chloride	2.059	84	5634	0.599	ppbv #	93
21) Allyl Chloride	2.091	41	9632	0.541	ppbv	89
22) trans-1,2-Dichloroethene	2.334	96	6353	0.546	ppbv	83
23) Vinyl Acetate	2.457	43	6809	0.649	ppbv #	91
24) 1,1-Dichloroethane	2.405	63	11258	0.527	ppbv	97
25) Ethyl Acetate	2.836	43	36258	0.553	ppbv	98
26) Hexane	2.823	57	13605	0.538	ppbv	92
27) Carbon Disulfide	2.146	76	14510	0.535	ppbv #	1
28) Methyl tert-Butyl Ether	2.437	73	8310	0.527	ppbv #	89
29) Chloroform	2.845	83	20149	0.544	ppbv	98
30) Cyclohexane	3.852	84	12063m	0.549	ppbv	
31) cis-1,2-Dichloroethene	2.719	61	13601	0.529	ppbv	92
32) 1,1,1-Trichloroethane	3.360	97	20567	0.485	ppbv	100
34) 2-Butanone	2.557	43	19739	0.520	ppbv	96
35) Carbon Tetrachloride	3.755	117	18558	0.460	ppbv	93
36) Benzene	3.651	78	27488	0.529	ppbv #	87
37) 1,2-Dichloroethane	3.214	62	16062	0.540	ppbv	100
38) Trichloroethene	4.538	130	11460m	0.529	ppbv	
39) 1,2-Dichloropropane	4.308	63	10123	0.535	ppbv	92
40) 1,4-Dioxane	4.593	88	6121m	0.624	ppbv	
41) Tetrahydrofuran	3.059	42	11509m	0.533	ppbv	
42) Bromodichloromethane	4.483	83	20374	0.497	ppbv #	98
43) Methyl Methacrylate	4.875	69	11583m	0.528	ppbv	
44) 2,2,4-Trimethylpentane	4.632	57	46646	0.532	ppbv	95
45) t-1,3-Dichloropropene	6.406	75	12404	0.526	ppbv #	79

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
 Data File : VL042175.D
 Acq On : 27 Mar 2025 10:01
 Operator : SY/MD
 Sample : VSTDICC0.5
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC0.5

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 03/31/2025
 Supervised By :Mahesh Dadoda 04/03/2025

Quant Time: Mar 28 01:34:42 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M

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

QLast Update : Fri Mar 28 01:31:23 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.593	75	14374m	0.497	ppbv	
47) 1,1,2-Trichloroethane	6.574	97	10972m	0.549	ppbv	
48) Dibromochloromethane	7.380	129	17042	0.503	ppbv	99
49) Bromoform	9.480	173	14828	0.487	ppbv	98
50) 4-Methyl-2-Pentanone	5.758	43	33674	0.559	ppbv	97
51) 2-Hexanone	7.438	43	26154	0.523	ppbv #	100
52) Tetrachloroethene	8.218	164	10502	0.510	ppbv	94
53) Toluene	6.923	91	32444	0.527	ppbv	98
54) 1,2-Dibromoethane	7.648	107	14220	0.510	ppbv	99
56) 1,1,1,2-Tetrachloroethane	8.920	131	13959	0.523	ppbv #	1
57) Chlorobenzene	8.914	112	24826	0.540	ppbv #	91
58) Ethyl Benzene	9.348	91	44862	0.521	ppbv	96
59) m/p-Xylene	9.542	91	73028m	1.060	ppbv	
60) o-Xylene	9.959	91	36879	0.535	ppbv	98
61) Styrene	9.866	104	17198	0.504	ppbv	96
62) Isopropylbenzene	10.536	105	55531	0.538	ppbv	99
63) 1,1,2,2-Tetrachloroethane	9.959	83	21989	0.525	ppbv	96
64) n-propylbenzene	10.985	120	14030	0.528	ppbv	95
65) tert-Butylbenzene	11.526	119	53115	0.557	ppbv	100
66) Benzyl Chloride	11.613	91	5263	0.520	ppbv	97
67) sec-Butylbenzene	11.762	105	72879	0.550	ppbv	98
69) p-Isopropyltoluene	11.921	119	61933	0.542	ppbv	100
70) n-Butylbenzene	12.277	91	61507	0.527	ppbv	99
71) 2-Chlorotoluene	10.895	91	41637	0.520	ppbv	95
72) 4-Ethyltoluene	11.121	105	44473	0.518	ppbv #	94
73) 1,3,5-Trimethylbenzene	11.199	105	39190	0.523	ppbv	97
74) 1,2,4-Trimethylbenzene	11.532	105	48370	0.560	ppbv	97
75) 1,3-Dichlorobenzene	11.600	146	25122	0.530	ppbv	100
76) 1,4-Dichlorobenzene	11.668	146	24991	0.530	ppbv	97
77) 1,2-Dichlorobenzene	11.943	146	24548	0.532	ppbv	96
78) Hexachloro-1,3-Butadiene	13.879	225	25636	0.546	ppbv	99
79) Naphthalene	13.510	128	47990	0.508	ppbv	95
80) Naphthalene,2-methyl-	14.458	142	17486	0.380	ppbv	98
81) 1,2,4-Trichlorobenzene	13.436	180	19924	0.457	ppbv	97

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

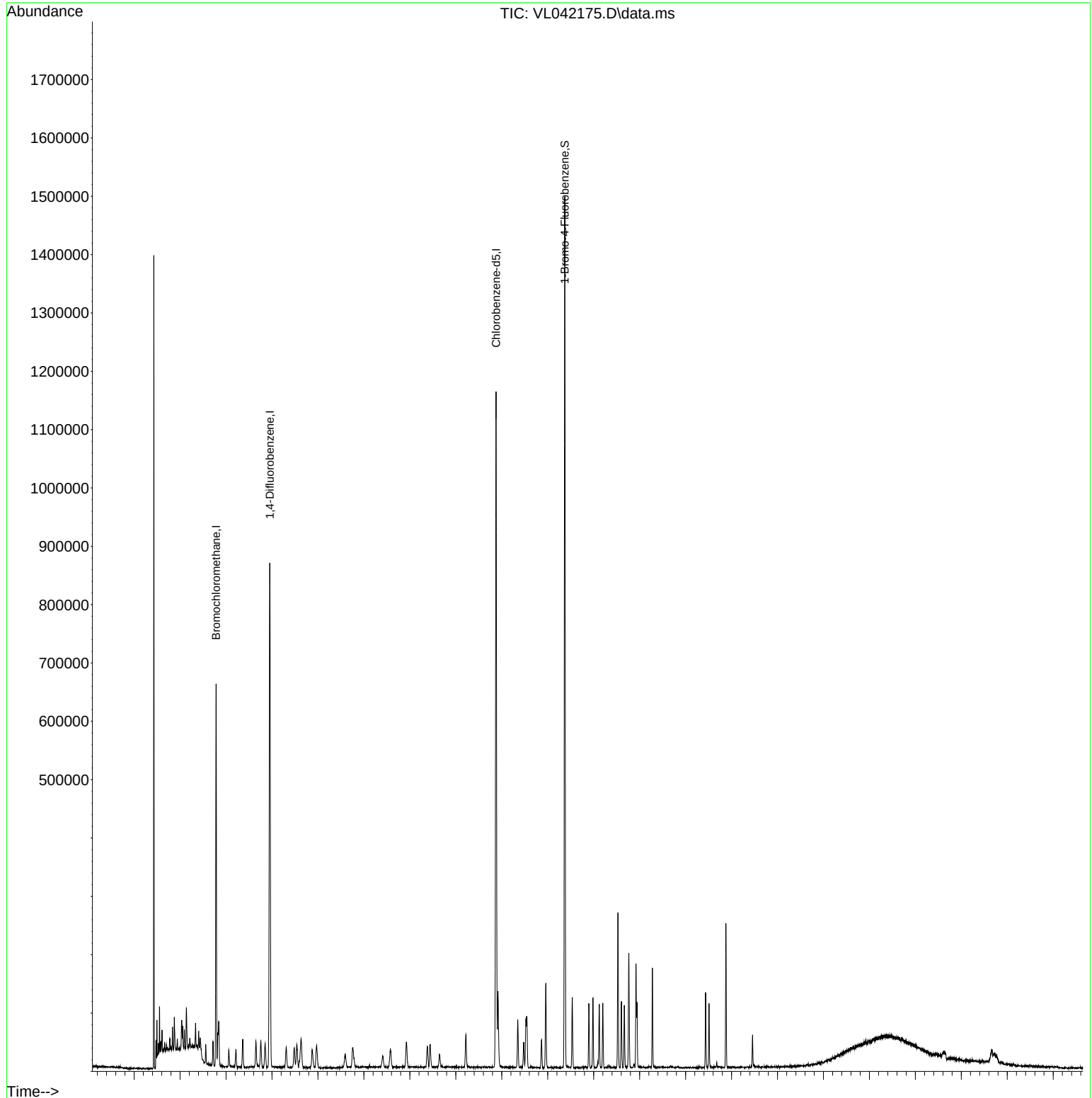
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Acq On : 27 Mar 2025 10:01
Operator : SY/MD
Sample : VSTDICC0.5
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

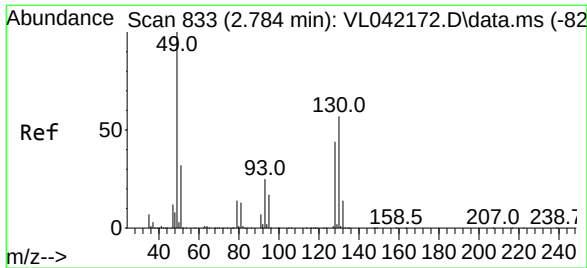
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations
APPROVED

Reviewed By : Semsettin Yesilyurt 03/31/2025
Supervised By : Mahesh Dadoda 04/03/2025

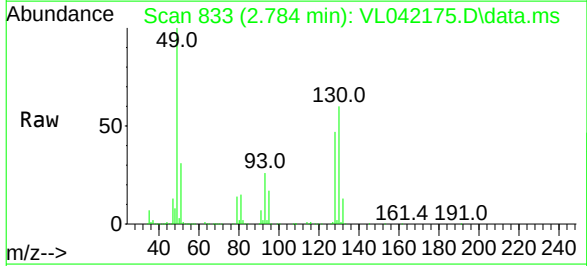
Quant Time: Mar 28 01:34:42 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Fri Mar 28 01:31:23 2025
Response via : Initial Calibration





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 833
Delta R.T. -0.000 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

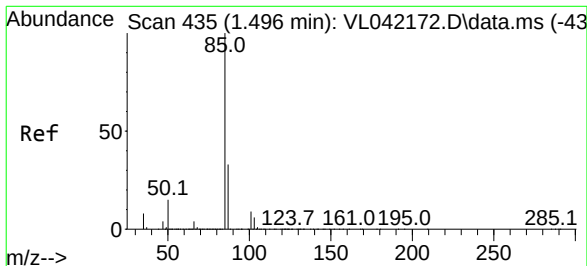
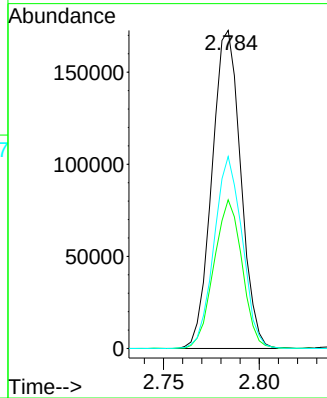
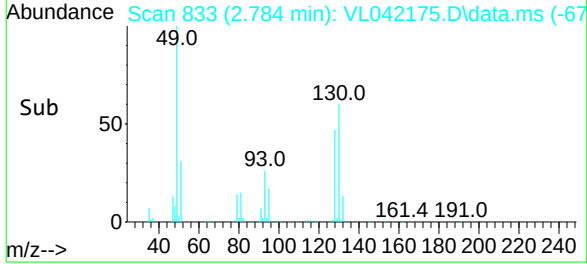
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5



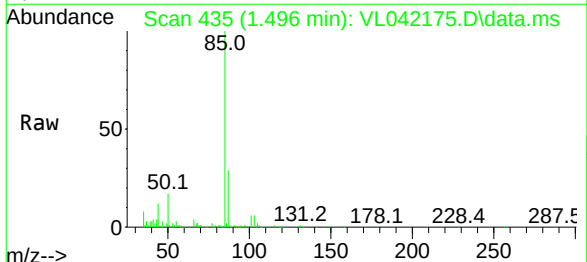
Tgt Ion: 49 Resp: 180502
Ion Ratio Lower Upper
49 100
128 46.1 22.9 68.5
130 59.2 28.8 86.4

Manual Integrations
APPROVED

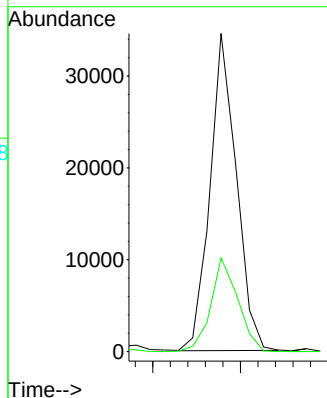
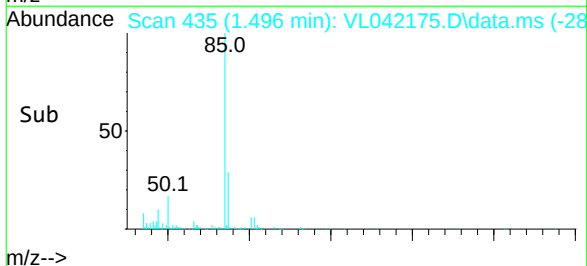
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025

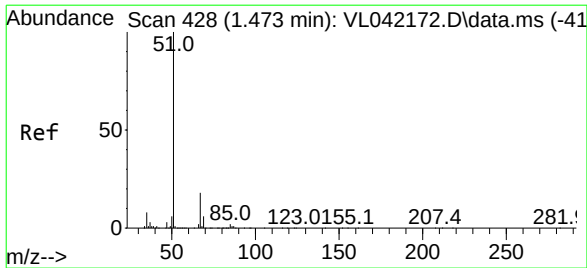


#2
Dichlorodifluoromethane
Concen: 0.542 ppbv
RT: 1.496 min Scan# 435
Delta R.T. -0.000 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01



Tgt Ion: 85 Resp: 14455
Ion Ratio Lower Upper
85 100
87 29.5 26.1 39.1





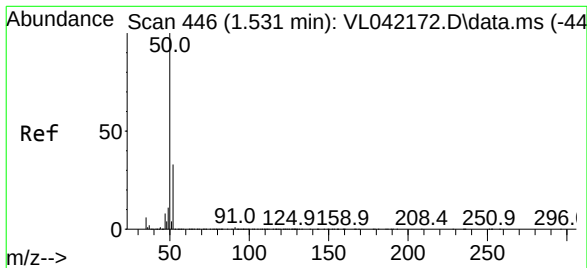
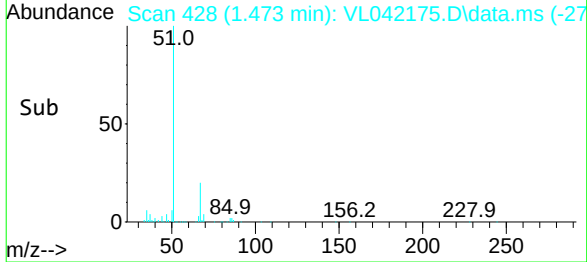
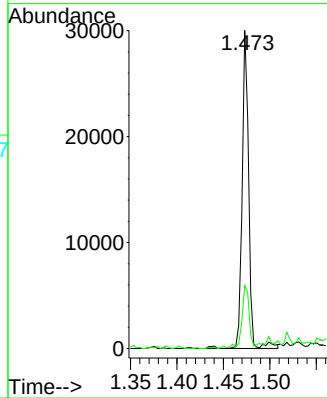
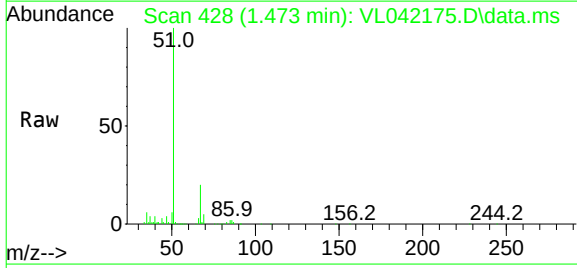
#3
Chlorodifluoromethane
Concen: 0.538 ppbv
RT: 1.473 min Scan# 428
Delta R.T. -0.000 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion: 51 Resp: 14637
Ion Ratio Lower Upper
51 100
67 23.6 15.0 22.6

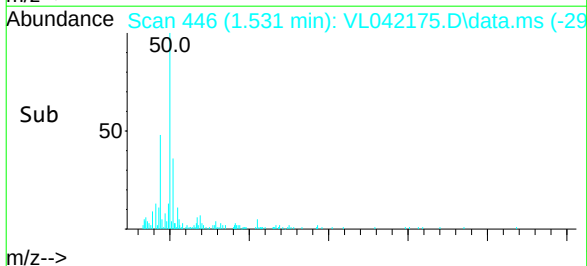
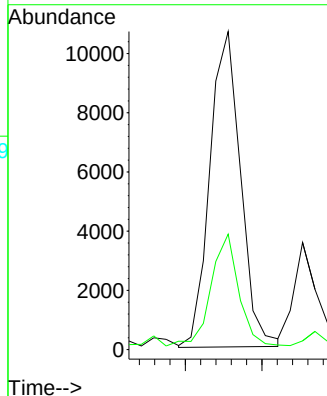
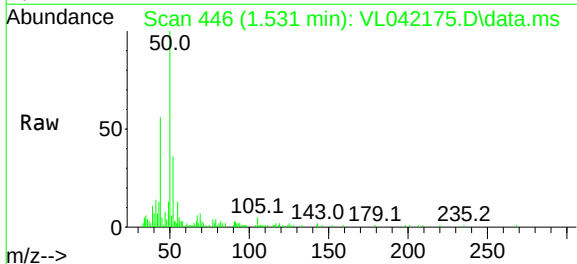
Manual Integrations
APPROVED

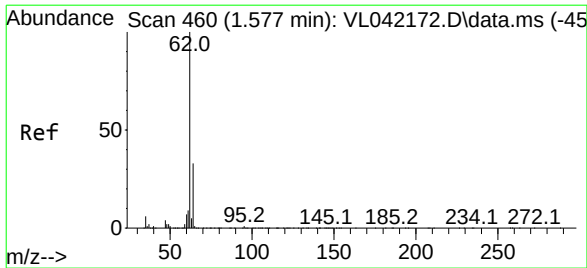
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#4
Chloromethane
Concen: 0.547 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

Tgt Ion: 50 Resp: 5956
Ion Ratio Lower Upper
50 100
52 36.1 26.1 39.1





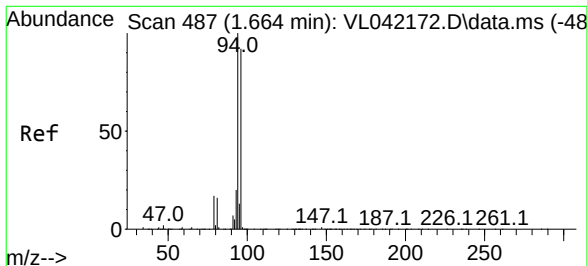
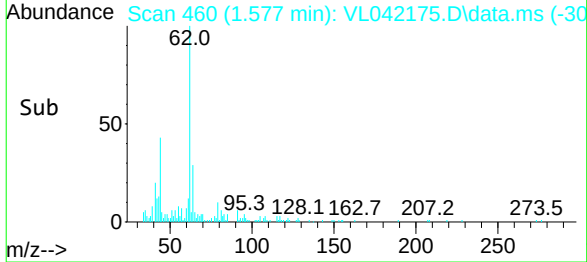
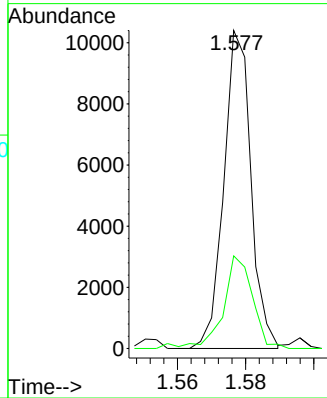
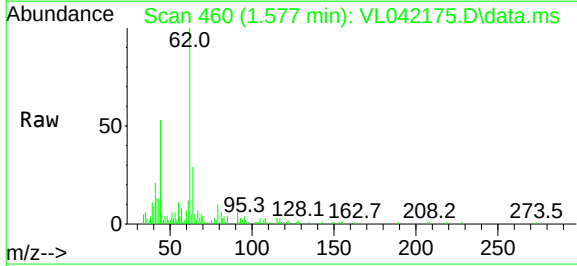
#5
 Vinyl Chloride
 Concen: 0.516 ppbv
 RT: 1.577 min Scan# 460
 Delta R.T. -0.000 min
 Lab File: VL042175.D
 Acq: 27 Mar 2025 10:01

Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC0.5

Tgt Ion: 62 Resp: 5732
 Ion Ratio Lower Upper
 62 100
 64 28.5 26.6 40.0

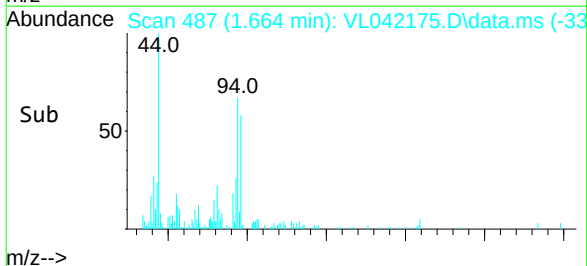
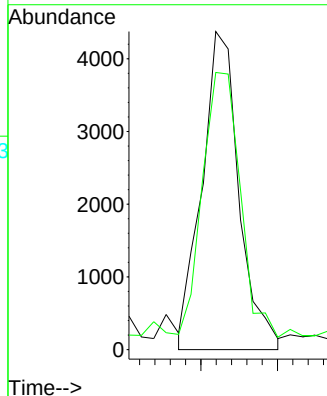
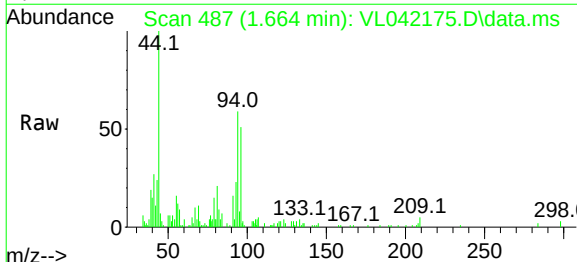
Manual Integrations
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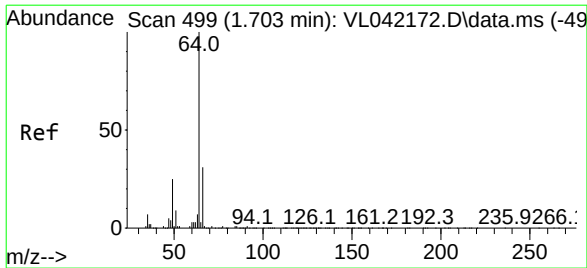
Reviewed By :Semsettin Yesilyurt 03/31/2025
 Supervised By :Mahesh Dadoda 04/03/2025



#6
 Bromomethane
 Concen: 0.597 ppbv
 RT: 1.664 min Scan# 487
 Delta R.T. -0.000 min
 Lab File: VL042175.D
 Acq: 27 Mar 2025 10:01

Tgt Ion: 94 Resp: 2949
 Ion Ratio Lower Upper
 94 100
 96 86.2 73.1 109.7





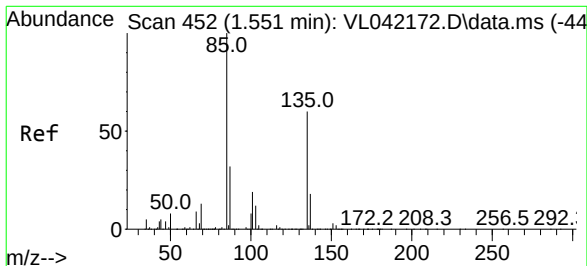
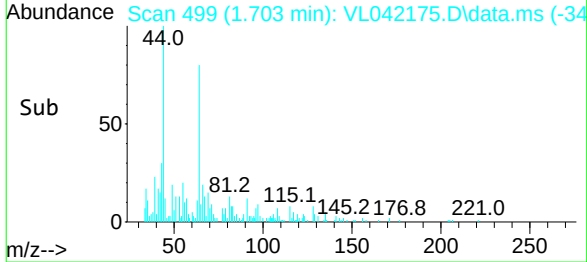
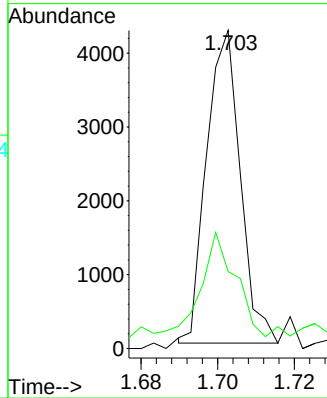
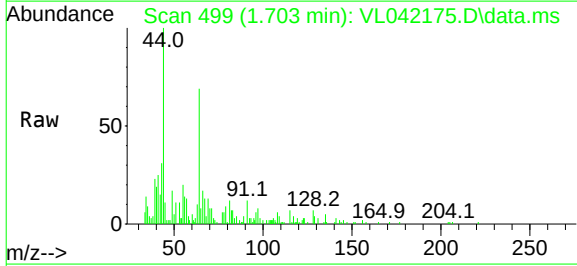
#7
Chloroethane
Concen: 0.591 ppbv
RT: 1.703 min Scan# 499
Delta R.T. -0.000 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tgt Ion: 64 Resp: 2582
Ion Ratio Lower Upper
64 100
66 24.2 25.2 37.8#

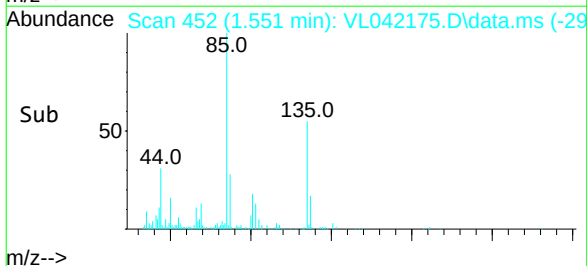
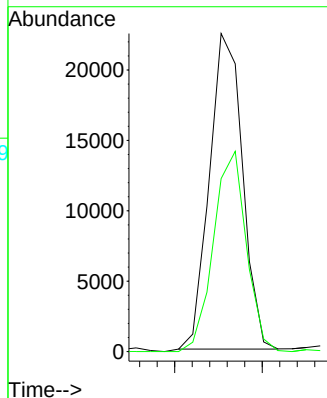
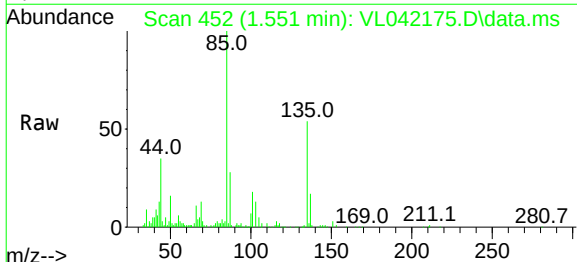
Manual Integrations
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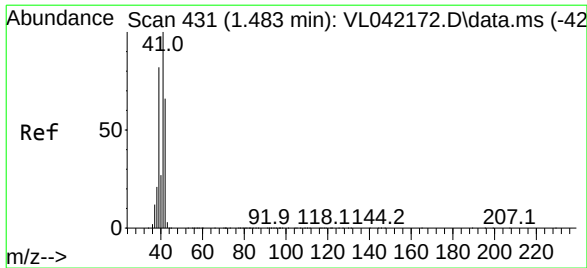
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#8
Dichlorotetrafluoroethane
Concen: 0.519 ppbv
RT: 1.551 min Scan# 452
Delta R.T. -0.000 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

Tgt Ion: 85 Resp: 11783
Ion Ratio Lower Upper
85 100
135 63.7 52.4 78.6





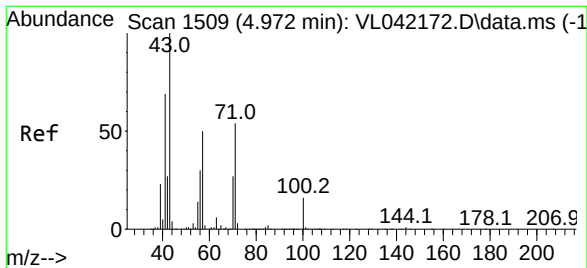
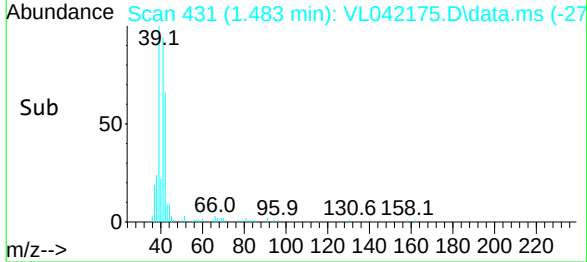
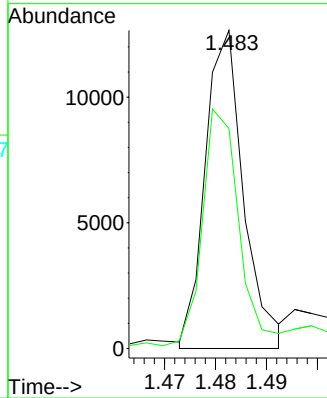
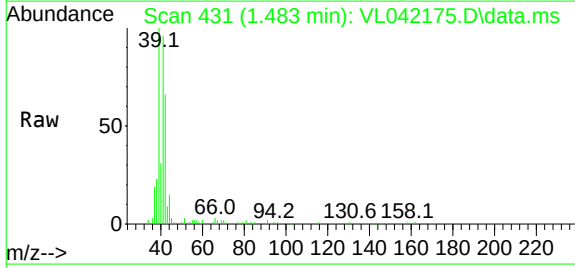
#9
Propene
Concen: 0.540 ppbv m
RT: 1.483 min Scan# 431
Delta R.T. -0.000 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion: 41 Resp: 6622
Ion Ratio Lower Upper
41 100
42 19.5 55.4 83.2#

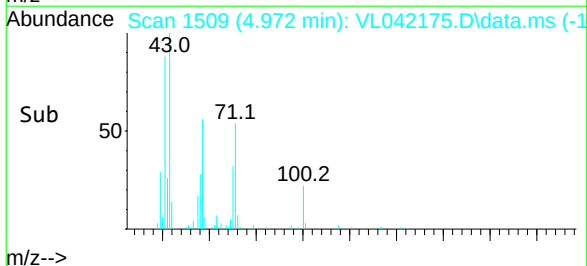
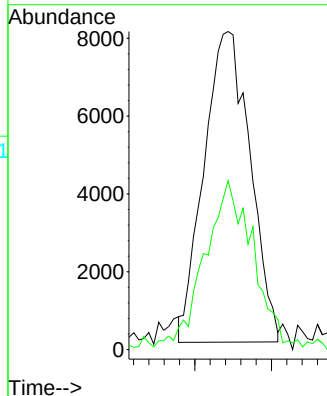
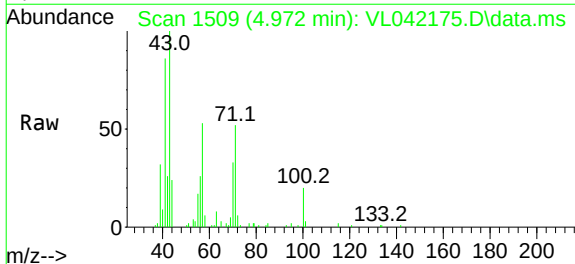
Manual Integrations
APPROVED

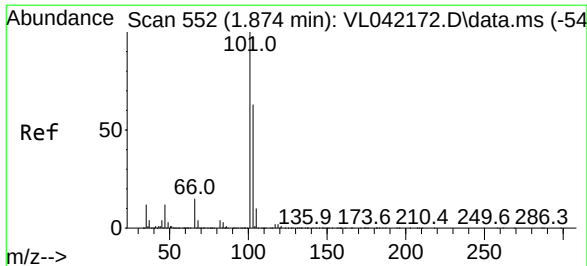
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#10
Heptane
Concen: 0.502 ppbv
RT: 4.972 min Scan# 1509
Delta R.T. -0.000 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

Tgt Ion: 43 Resp: 16673
Ion Ratio Lower Upper
43 100
57 57.0 39.4 59.2





#11

Trichlorofluoromethane

Concen: 0.544 ppbv

RT: 1.874 min Scan# 552

Delta R.T. -0.000 min

Lab File: VL042175.D

Acq: 27 Mar 2025 10:01

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tgt Ion:101 Resp: 14099

Ion Ratio Lower Upper

101 100

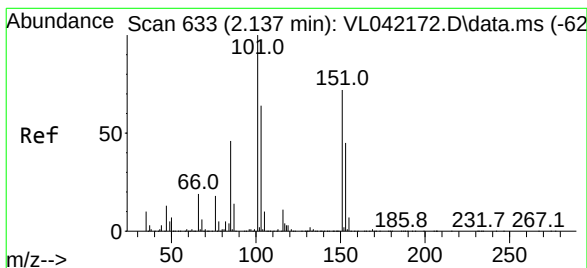
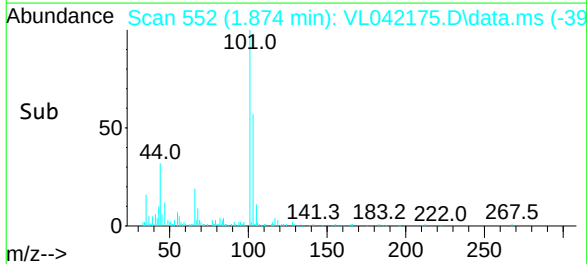
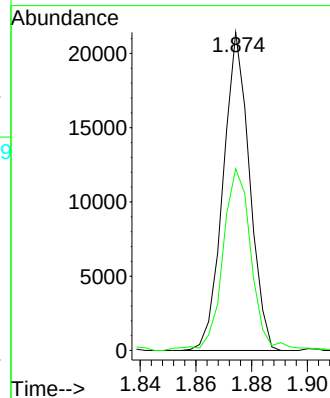
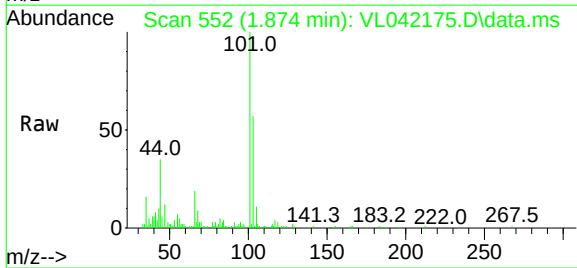
103 56.3 50.2 75.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 03/31/2025

Supervised By :Mahesh Dadoda 04/03/2025



#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.528 ppbv

RT: 2.136 min Scan# 633

Delta R.T. -0.000 min

Lab File: VL042175.D

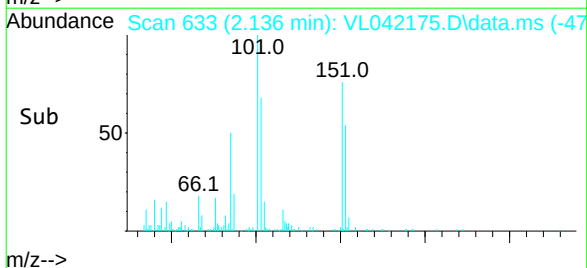
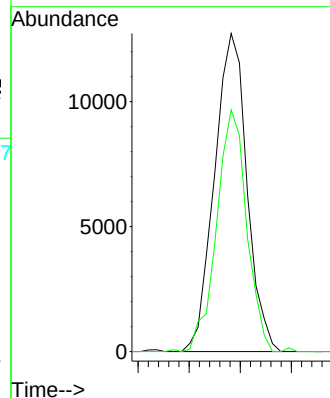
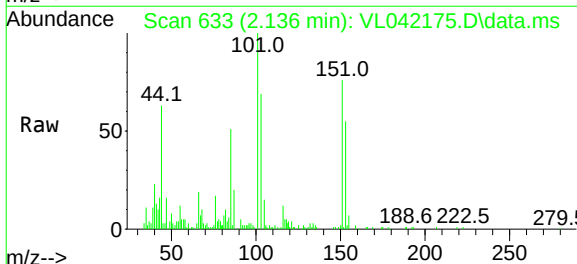
Acq: 27 Mar 2025 10:01

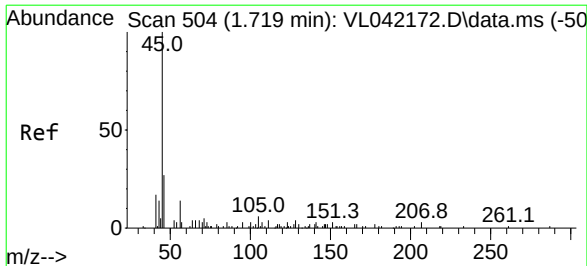
Tgt Ion:101 Resp: 11252

Ion Ratio Lower Upper

101 100

151 70.6 57.1 85.7





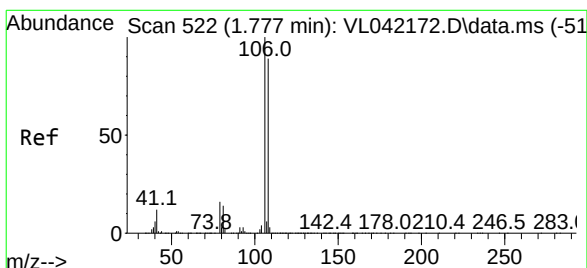
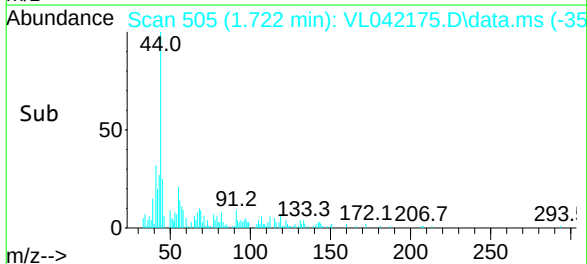
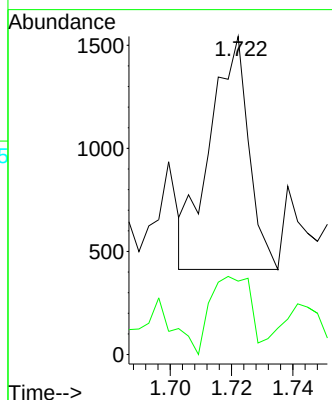
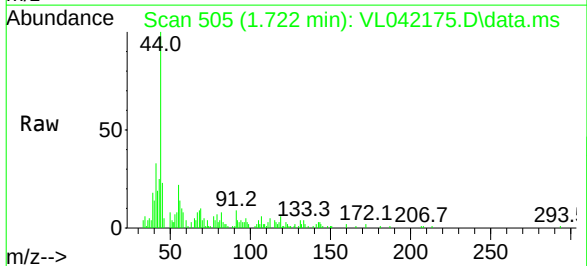
#13
Ethanol
Concen: 1.038 ppbv
RT: 1.722 min Scan# 504
Delta R.T. 0.003 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tgt Ion: 45 Resp: 997
Ion Ratio Lower Upper
45 100
46 94.5 20.2 80.8#

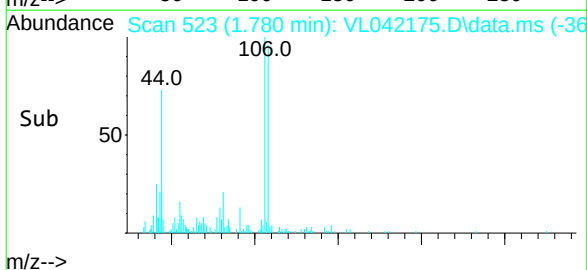
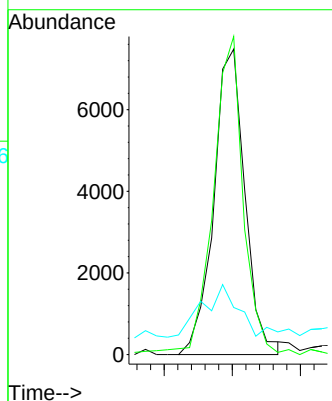
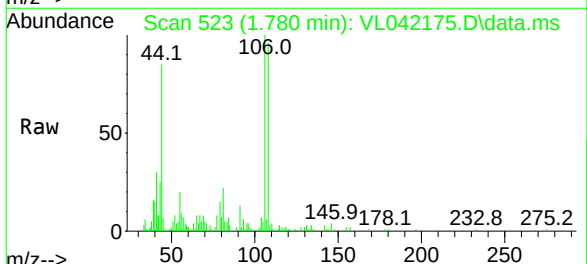
Manual Integrations
APPROVED

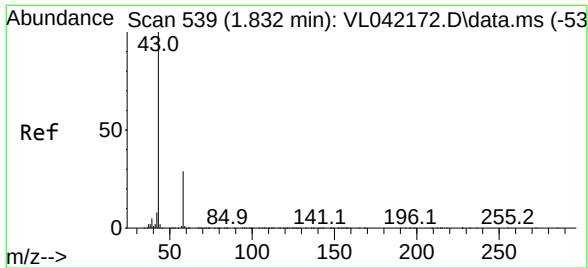
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#14
Bromoethene
Concen: 0.584 ppbv
RT: 1.780 min Scan# 523
Delta R.T. 0.003 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

Tgt Ion:108 Resp: 4770
Ion Ratio Lower Upper
108 100
106 101.3 86.8 130.2
79 42.6 15.0 22.6#





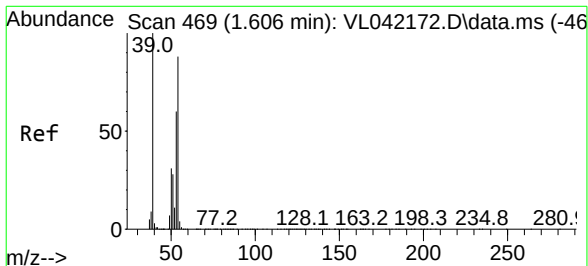
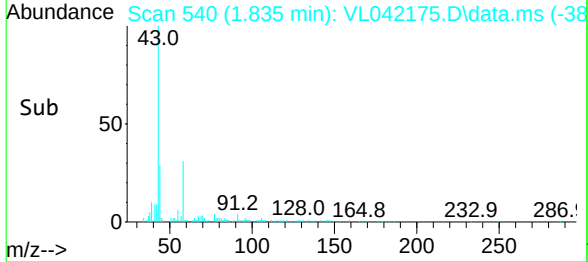
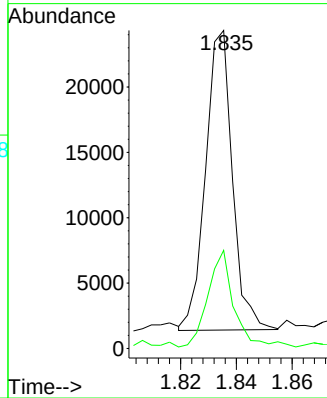
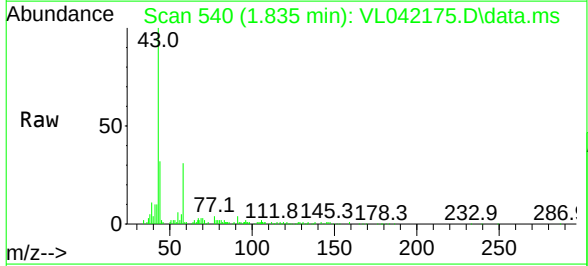
#15
Acetone
Concen: 0.607 ppbv
RT: 1.835 min Scan# 541
Delta R.T. 0.003 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tgt Ion: 43 Resp: 15331
Ion Ratio Lower Upper
43 100
58 37.1 23.2 34.8#

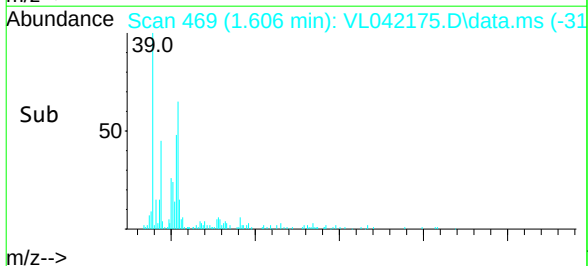
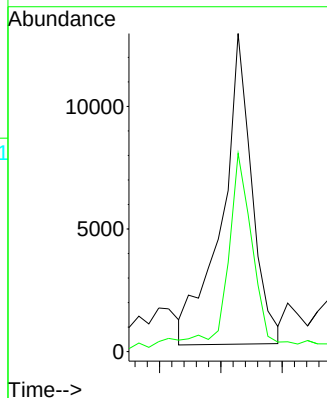
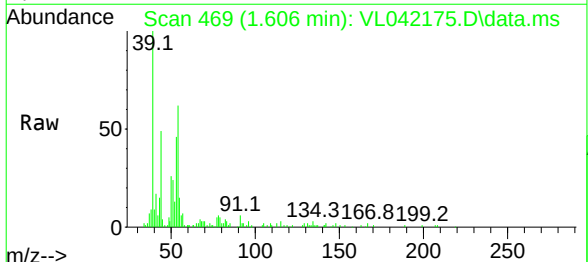
Manual Integrations
APPROVED

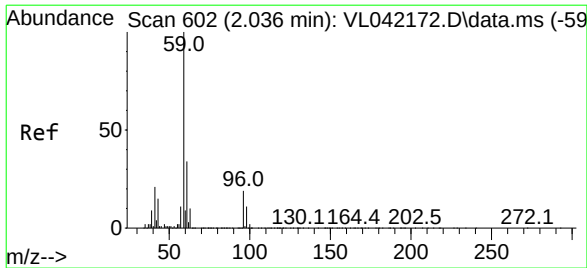
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#16
1,3-Butadiene
Concen: 0.757 ppbv
RT: 1.606 min Scan# 469
Delta R.T. -0.000 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

Tgt Ion: 39 Resp: 8594
Ion Ratio Lower Upper
39 100
54 60.7 60.7 91.1





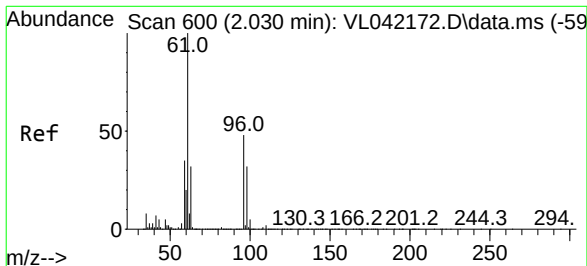
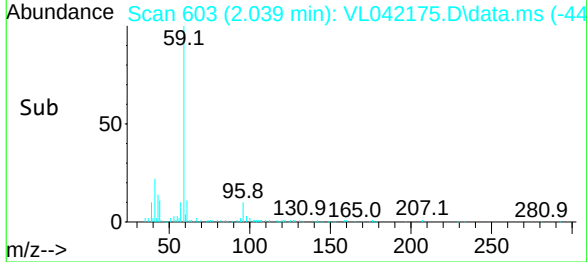
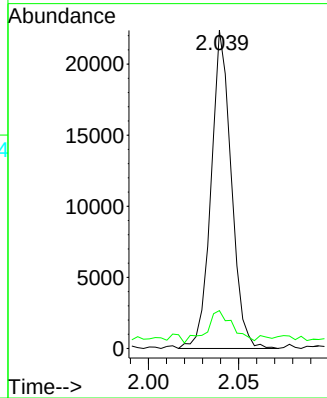
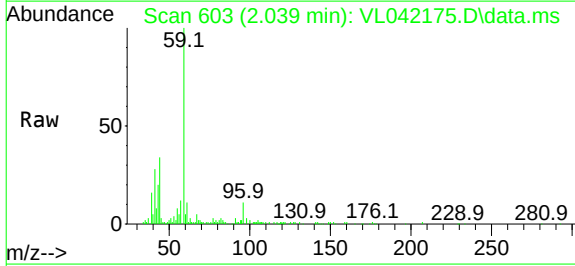
#17
tert-Butyl alcohol
Concen: 0.556 ppbv
RT: 2.039 min Scan# 602
Delta R.T. 0.003 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tgt Ion: 59 Resp: 17467
Ion Ratio Lower Upper
59 100
57 12.1 8.9 13.3

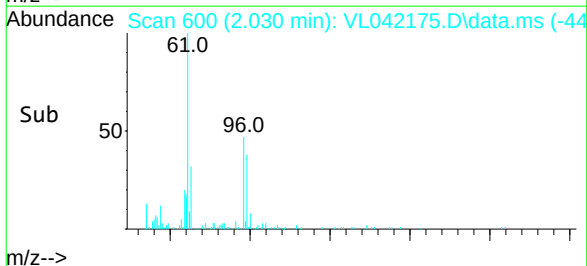
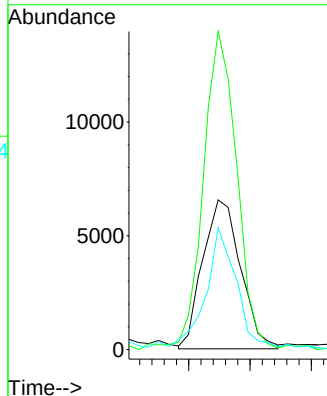
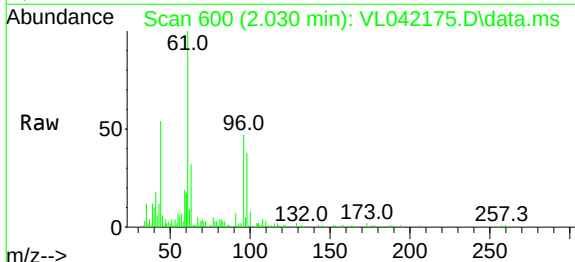
Manual Integrations
APPROVED

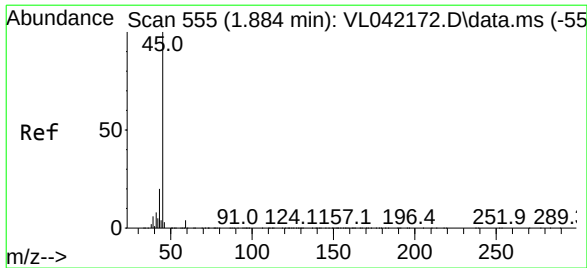
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#18
1,1-Dichloroethene
Concen: 0.565 ppbv
RT: 2.030 min Scan# 600
Delta R.T. -0.000 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

Tgt Ion: 96 Resp: 5634
Ion Ratio Lower Upper
96 100
61 216.6 167.6 251.4
98 81.2 53.5 80.3#





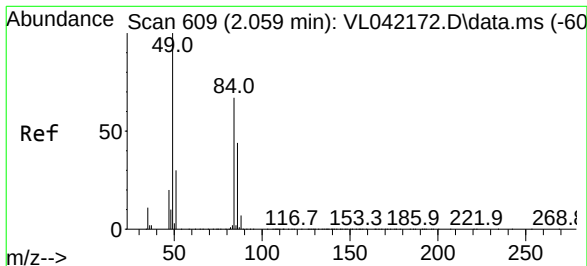
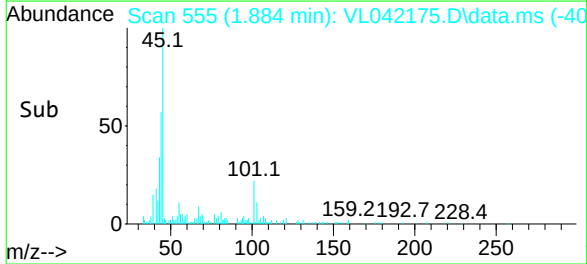
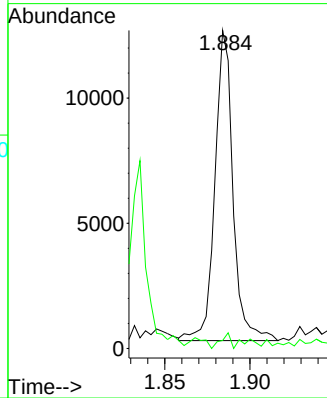
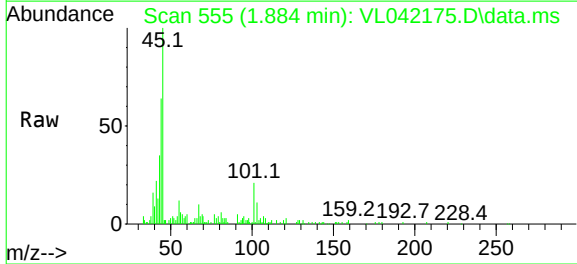
#19
Isopropyl Alcohol
Concen: 0.644 ppbv
RT: 1.884 min Scan# 555
Delta R.T. -0.000 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tgt Ion: 45 Resp: 9171
Ion Ratio Lower Upper
45 100
58 5.5 36.9 55.3#

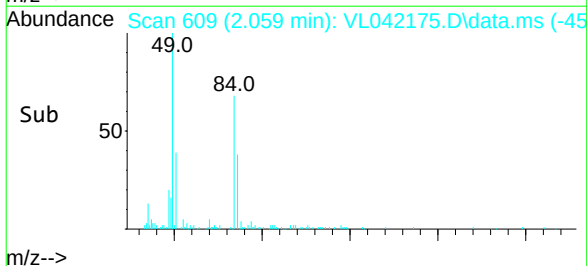
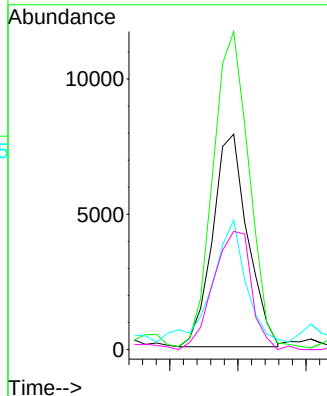
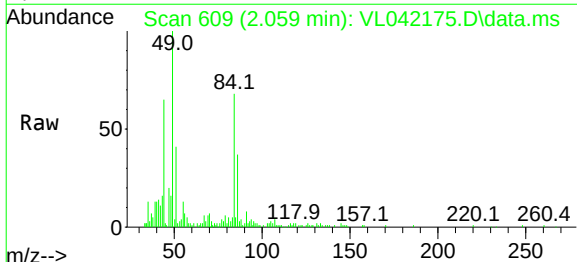
Manual Integrations
APPROVED

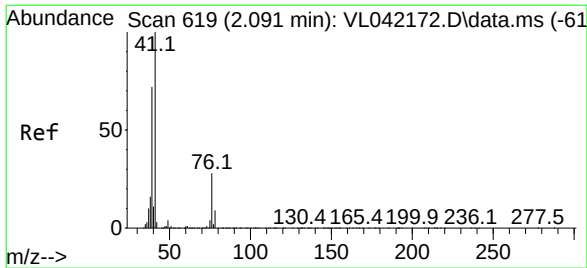
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#20
Methylene Chloride
Concen: 0.599 ppbv
RT: 2.059 min Scan# 609
Delta R.T. -0.000 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

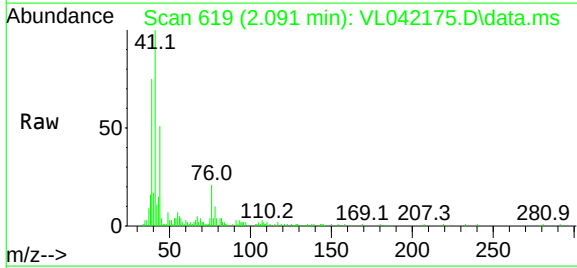
Tgt Ion: 84 Resp: 5634
Ion Ratio Lower Upper
84 100
49 148.1 120.2 180.4
51 56.1 37.4 56.0#
86 55.6 52.4 78.6





#21
 Allyl Chloride
 Concen: 0.541 ppbv
 RT: 2.091 min Scan# 619
 Delta R.T. -0.000 min
 Lab File: VL042175.D
 Acq: 27 Mar 2025 10:01

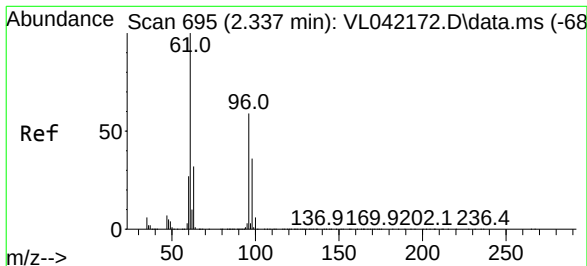
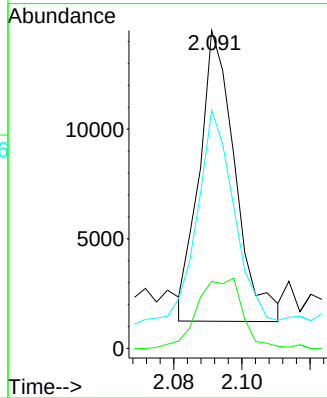
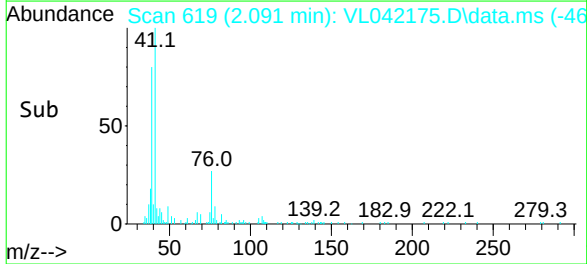
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5



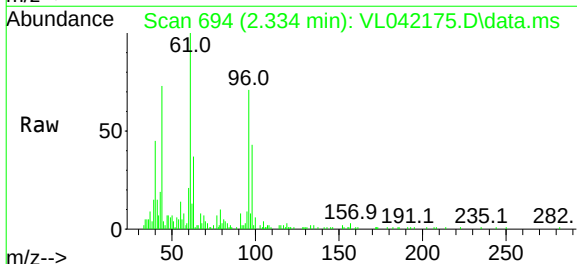
Tgt Ion:	41	Resp:	9632
Ion	Ratio	Lower	Upper
41	100		
76	30.9	24.1	36.1
39	88.9	61.1	91.7

Manual Integrations
 APPROVED

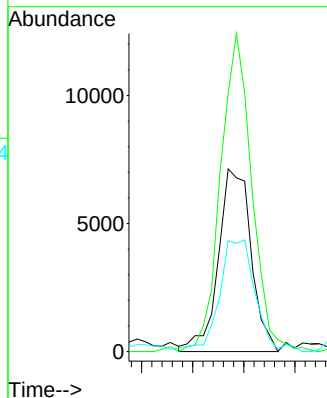
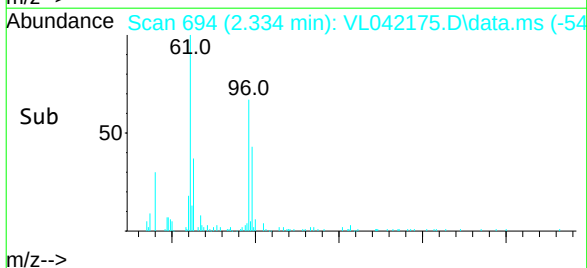
Reviewed By :Semsettin Yesilyurt 03/31/2025
 Supervised By :Mahesh Dadoda 04/03/2025

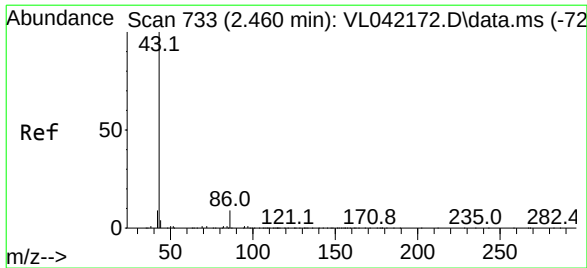


#22
 trans-1,2-Dichloroethene
 Concen: 0.546 ppbv
 RT: 2.334 min Scan# 694
 Delta R.T. -0.003 min
 Lab File: VL042175.D
 Acq: 27 Mar 2025 10:01



Tgt Ion:	96	Resp:	6353
Ion	Ratio	Lower	Upper
96	100		
61	141.3	136.6	204.8
98	59.4	49.4	74.2





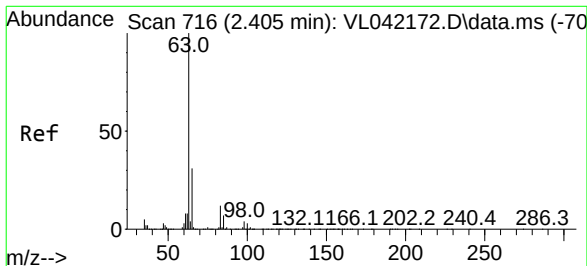
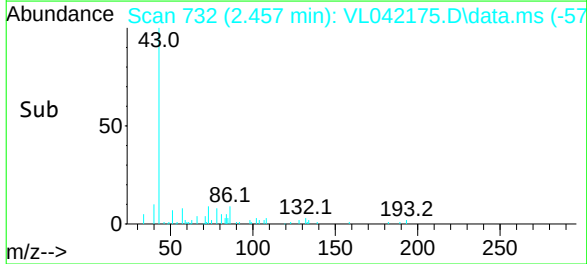
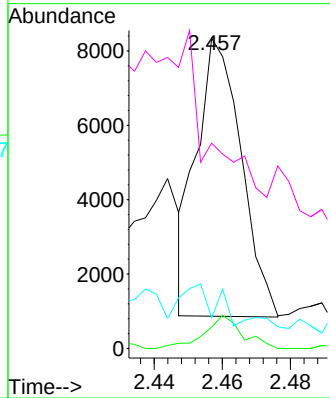
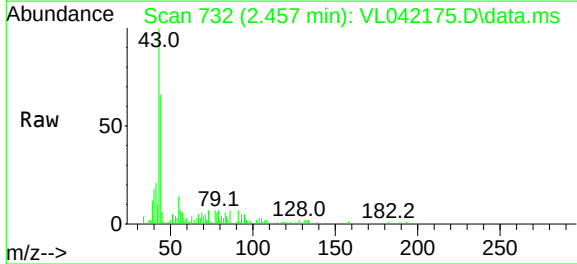
#23
 Vinyl Acetate
 Concen: 0.649 ppbv
 RT: 2.457 min Scan# 733
 Delta R.T. -0.003 min
 Lab File: VL042175.D
 Acq: 27 Mar 2025 10:01

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Tgt Ion: 43	Resp: 6809
Ion Ratio	Lower Upper
43 100	
86 7.7	5.5 8.3
42 3.2	8.6 13.0
44 8.2	6.2 9.4

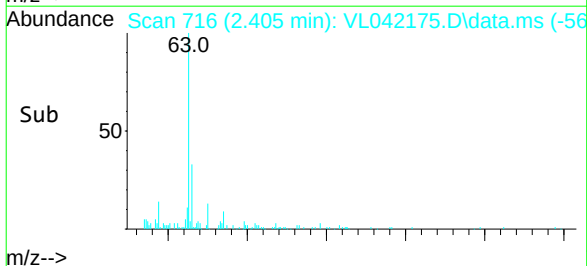
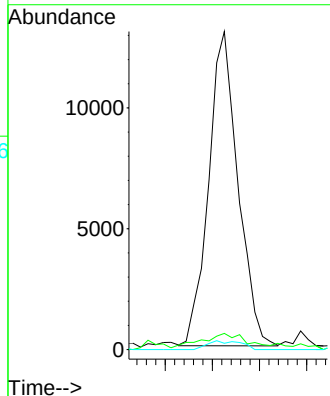
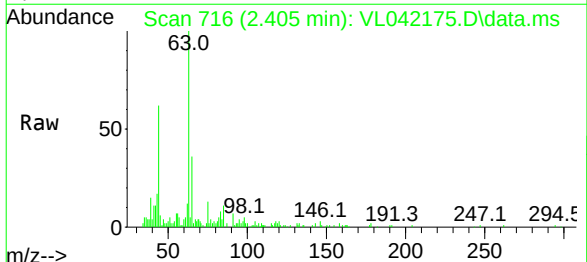
Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 03/31/2025
 Supervised By :Mahesh Dadoda 04/03/2025

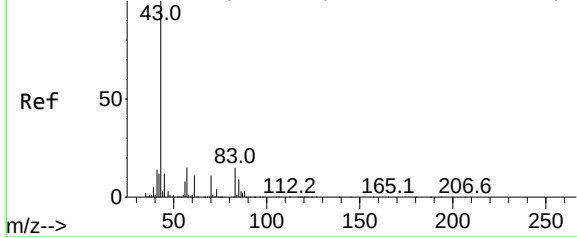


#24
 1,1-Dichloroethane
 Concen: 0.527 ppbv
 RT: 2.405 min Scan# 716
 Delta R.T. -0.000 min
 Lab File: VL042175.D
 Acq: 27 Mar 2025 10:01

Tgt Ion: 63	Resp: 11258
Ion Ratio	Lower Upper
63 100	
98 3.7	2.3 6.8
100 2.0	1.6 4.7



Abundance Scan 848 (2.833 min): VL042172.D\data.ms (-83



#25

Ethyl Acetate

Concen: 0.553 ppbv

RT: 2.836 min Scan# 84

Delta R.T. 0.003 min

Lab File: VL042175.D

Acq: 27 Mar 2025 10:01

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC0.5

Tgt Ion: 43 Resp: 36258

Ion Ratio Lower Upper

43 100

45 11.2 8.2 12.2

61 8.3 7.3 10.9

70 9.9 7.2 10.8

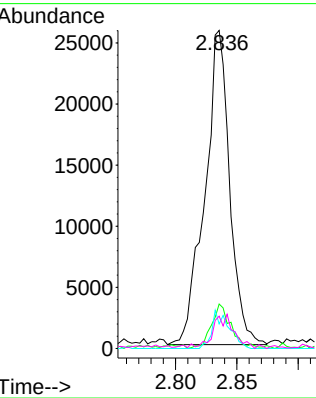
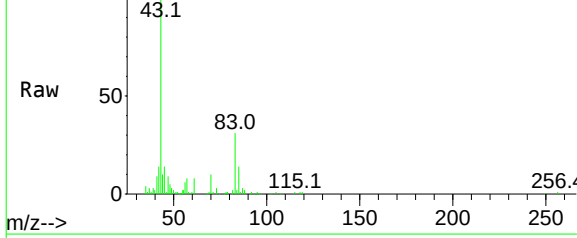
Manual Integrations

APPROVED

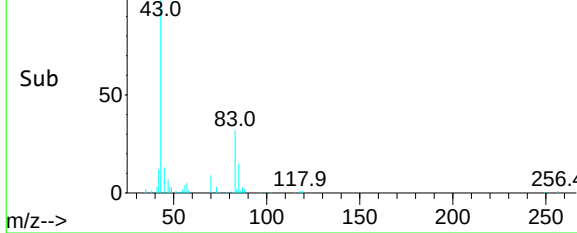
Reviewed By :Semsettin Yesilyurt 03/31/2025

Supervised By :Mahesh Dadoda 04/03/2025

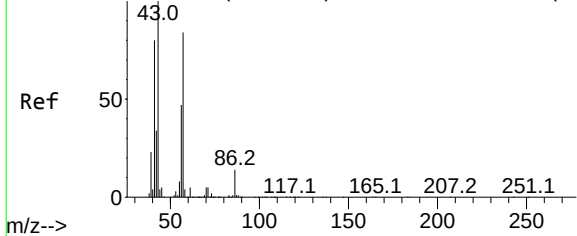
Abundance Scan 849 (2.836 min): VL042175.D\data.ms



Abundance Scan 849 (2.836 min): VL042175.D\data.ms (-69



Abundance Scan 845 (2.823 min): VL042172.D\data.ms (-83



#26

Hexane

Concen: 0.538 ppbv

RT: 2.823 min Scan# 845

Delta R.T. -0.000 min

Lab File: VL042175.D

Acq: 27 Mar 2025 10:01

Tgt Ion: 57 Resp: 13605

Ion Ratio Lower Upper

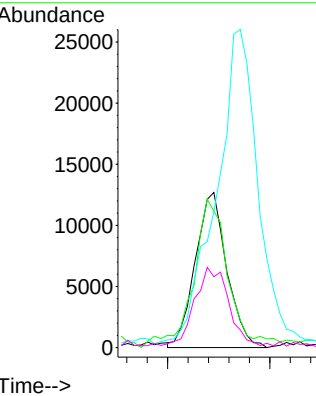
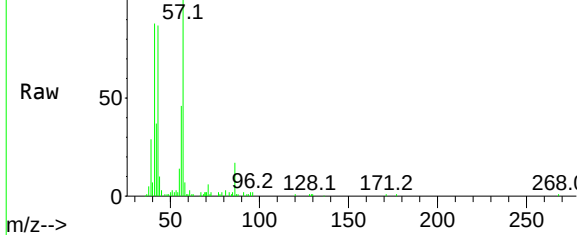
57 100

41 92.1 76.6 114.8

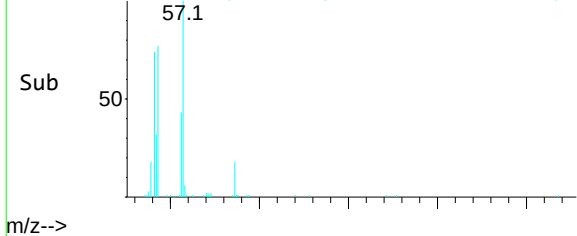
43 273.4 207.8 311.8

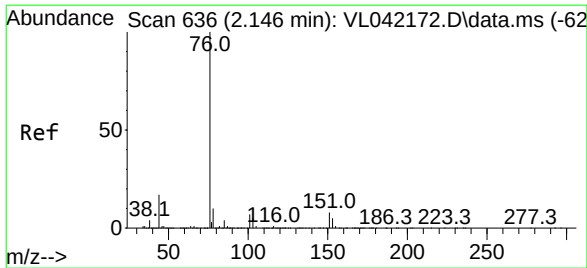
56 64.6 43.6 65.4

Abundance Scan 845 (2.823 min): VL042175.D\data.ms



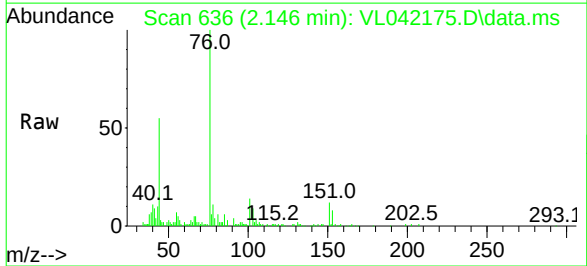
Abundance Scan 845 (2.823 min): VL042175.D\data.ms (-69





#27
Carbon Disulfide
Concen: 0.535 ppbv
RT: 2.146 min Scan# 636
Delta R.T. -0.000 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

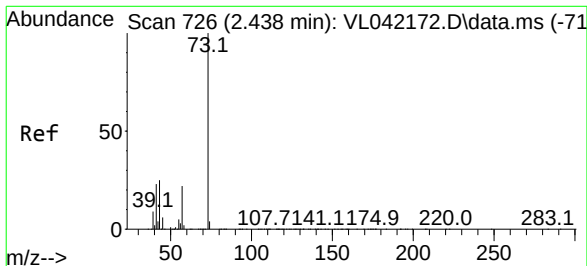
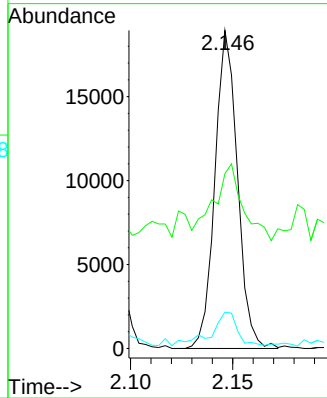
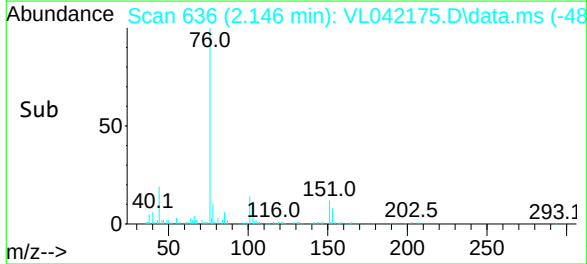
Instrument : MSVOA_1
ClientSampleId : VSTDIC0.5



Tgt Ion: 76 Resp: 14510
Ion Ratio Lower Upper
76 100
44 115.5 14.7 22.1#
78 14.9 9.3 13.9#

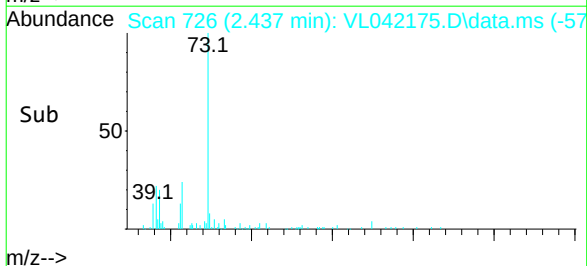
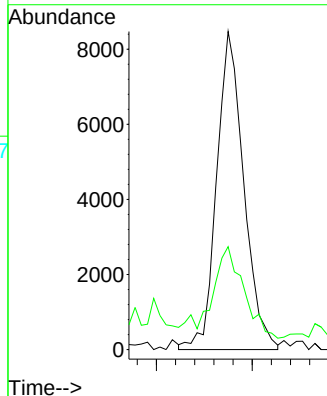
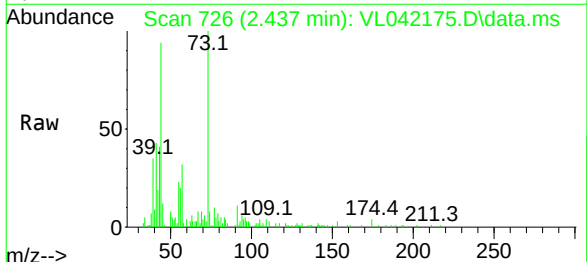
Manual Integrations
APPROVED

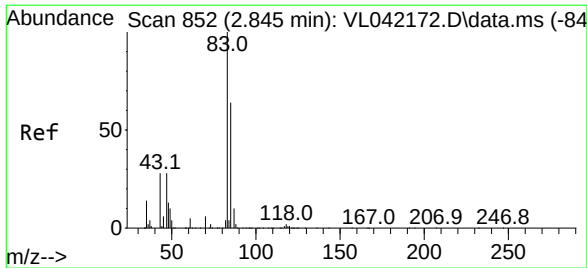
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#28
Methyl tert-Butyl Ether
Concen: 0.527 ppbv
RT: 2.437 min Scan# 726
Delta R.T. -0.000 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

Tgt Ion: 73 Resp: 8310
Ion Ratio Lower Upper
73 100
57 31.1 20.5 30.7#





#29

Chloroform

Concen: 0.544 ppbv

RT: 2.845 min Scan# 852

Delta R.T. -0.000 min

Lab File: VL042175.D

Acq: 27 Mar 2025 10:01

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC0.5

Tgt Ion: 83 Resp: 20149

Ion Ratio Lower Upper

83 100

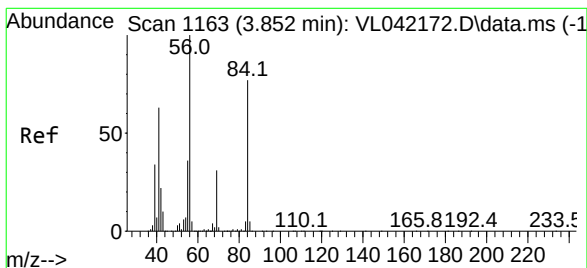
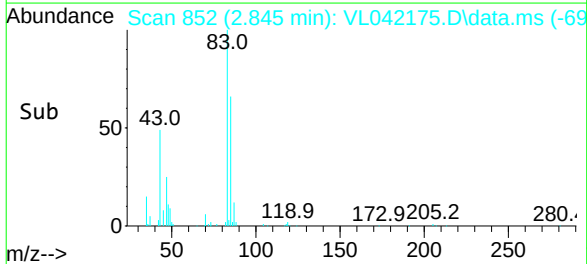
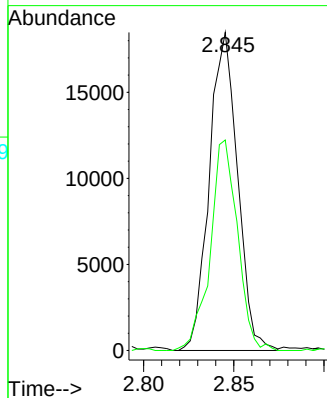
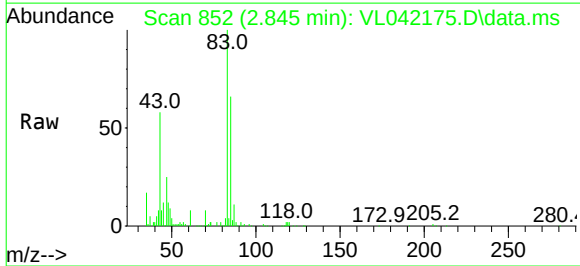
85 66.2 51.4 77.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 03/31/2025

Supervised By :Mahesh Dadoda 04/03/2025



#30

Cyclohexane

Concen: 0.549 ppbv m

RT: 3.852 min Scan# 1163

Delta R.T. -0.000 min

Lab File: VL042175.D

Acq: 27 Mar 2025 10:01

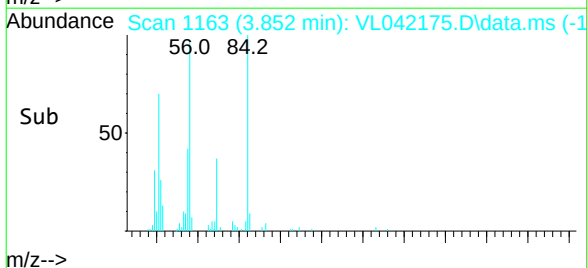
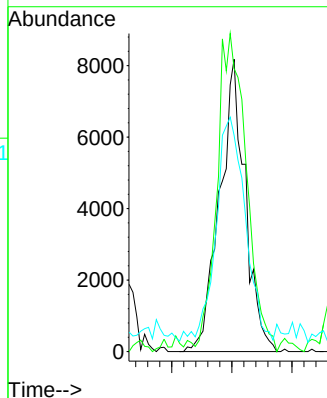
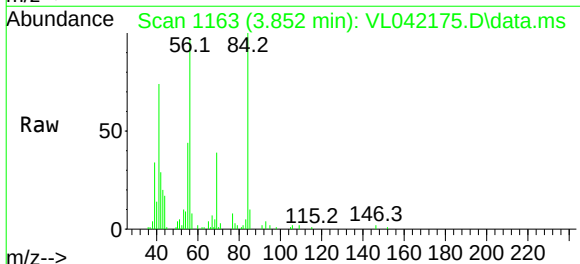
Tgt Ion: 84 Resp: 12063

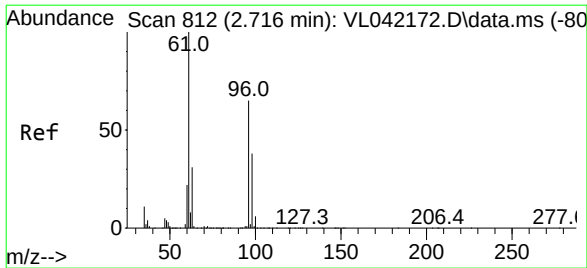
Ion Ratio Lower Upper

84 100

56 126.3 102.8 154.2

41 93.5 66.5 99.7





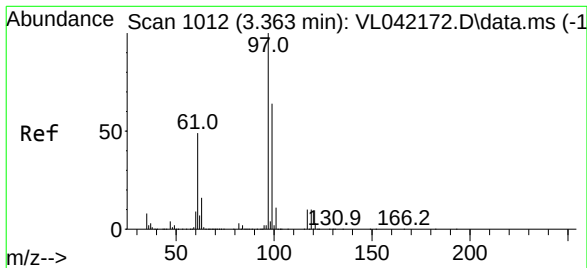
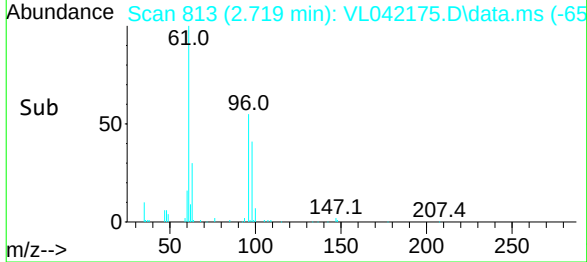
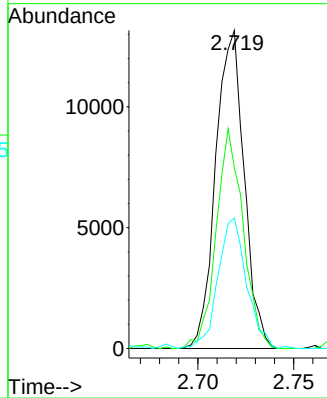
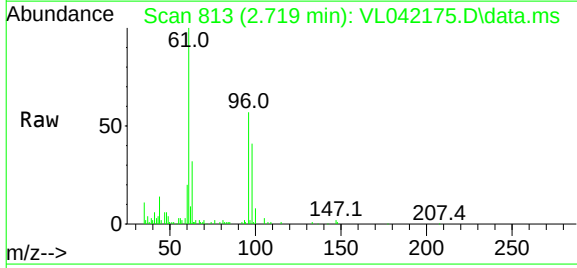
#31
cis-1,2-Dichloroethene
Concen: 0.529 ppbv
RT: 2.719 min Scan# 81
Delta R.T. 0.003 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion:	61	Resp:	13601
Ion	Ratio	Lower	Upper
61	100		
96	56.8	51.8	77.8
98	41.0	30.6	46.0

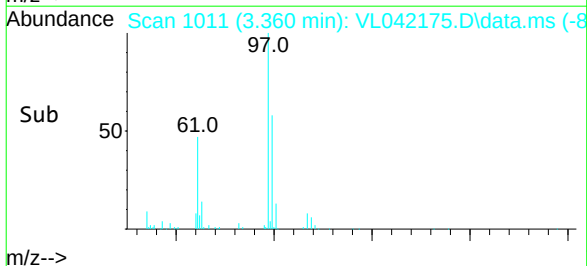
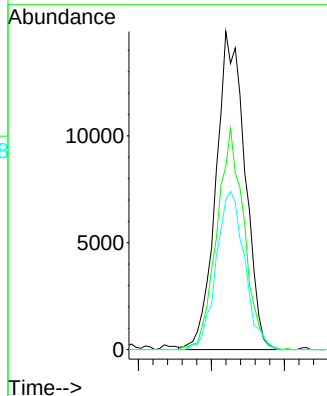
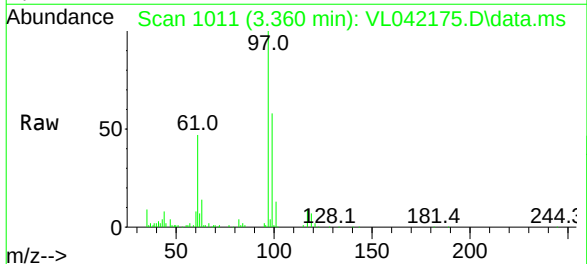
Manual Integrations
APPROVED

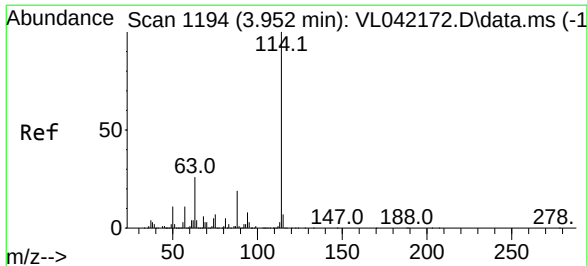
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#32
1,1,1-Trichloroethane
Concen: 0.485 ppbv
RT: 3.360 min Scan# 1011
Delta R.T. -0.003 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

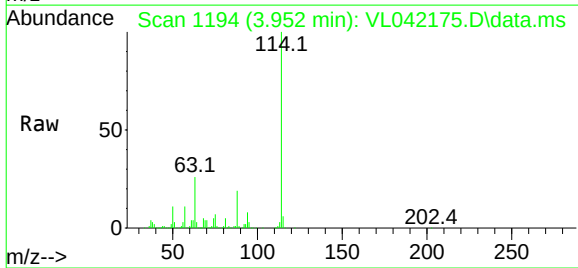
Tgt Ion:	97	Resp:	20567
Ion	Ratio	Lower	Upper
97	100		
99	64.8	51.5	77.3
61	48.6	38.7	58.1





#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.952 min Scan# 1194
Delta R.T. -0.000 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

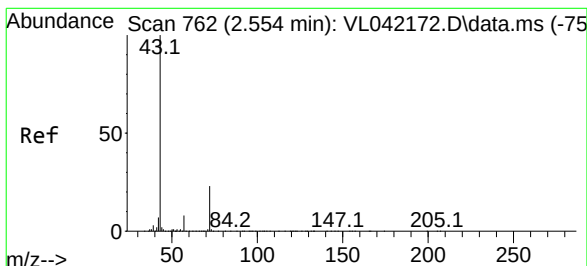
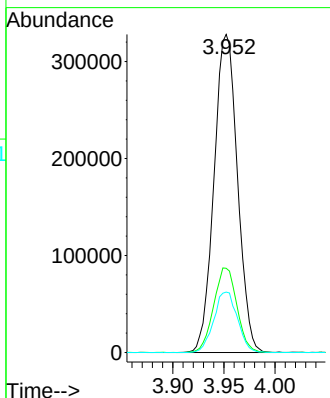
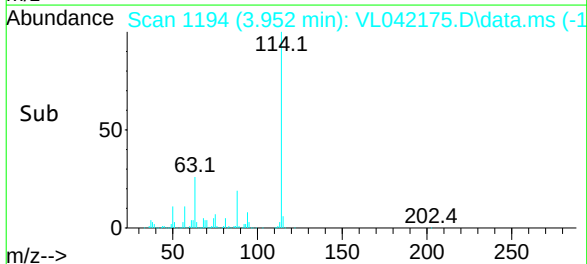
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5



Tgt Ion: 114 Resp: 523832
Ion Ratio Lower Upper
114 100
63 26.4 20.7 31.1
88 19.1 15.0 22.4

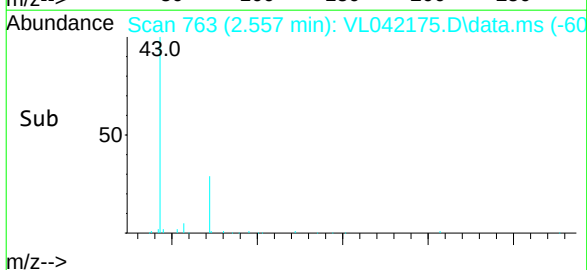
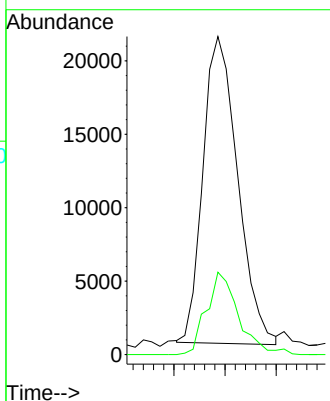
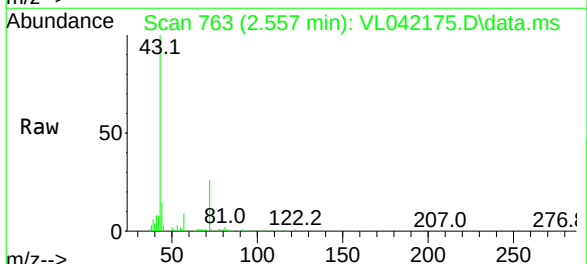
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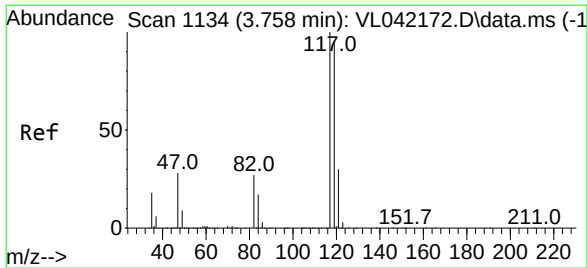
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#34
2-Butanone
Concen: 0.520 ppbv
RT: 2.557 min Scan# 763
Delta R.T. 0.003 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

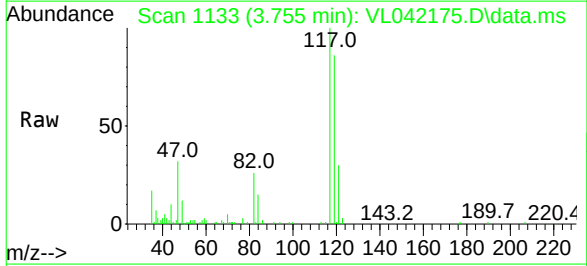
Tgt Ion: 43 Resp: 19739
Ion Ratio Lower Upper
43 100
72 24.8 18.2 27.2





#35
Carbon Tetrachloride
Concen: 0.460 ppbv
RT: 3.755 min Scan# 1113
Delta R.T. -0.003 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

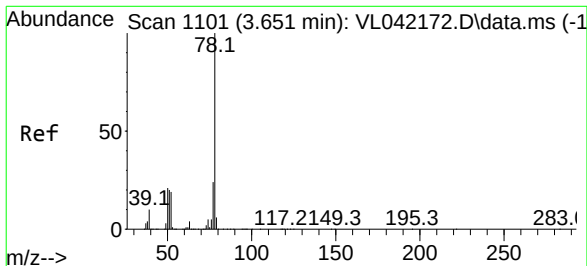
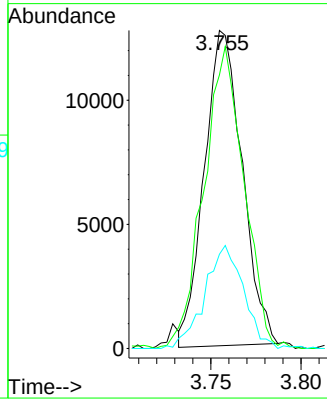
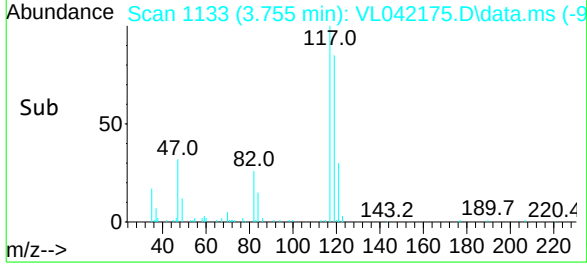
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5



Tgt Ion: 117 Resp: 18558
Ion Ratio Lower Upper
117 100
119 86.4 76.2 114.2
121 30.1 24.2 36.4

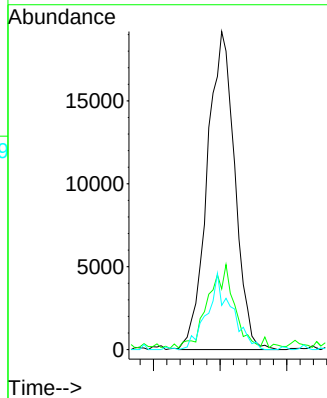
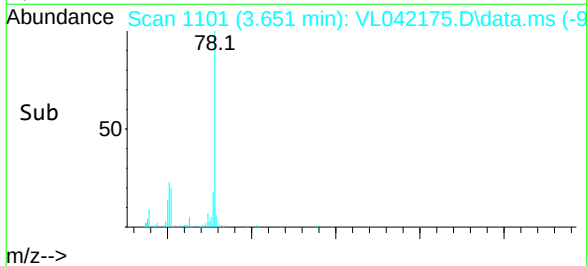
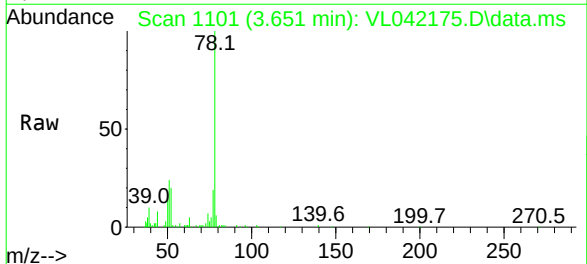
Manual Integrations
APPROVED

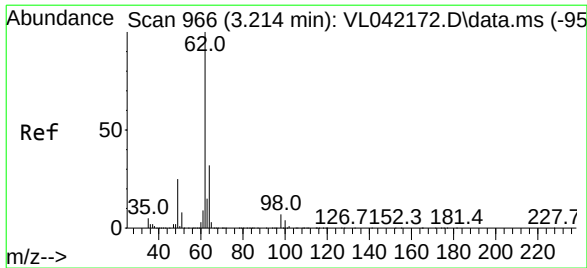
Reviewed By : Semsettin Yesilyurt 03/31/2025
Supervised By : Mahesh Dadoda 04/03/2025



#36
Benzene
Concen: 0.529 ppbv
RT: 3.651 min Scan# 1101
Delta R.T. -0.000 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

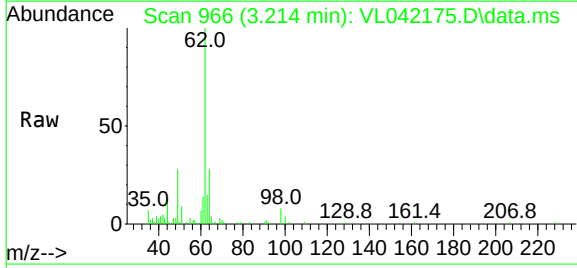
Tgt Ion: 78 Resp: 27488
Ion Ratio Lower Upper
78 100
77 18.5 19.1 28.7#
50 13.9 16.6 24.8#





#37
1,2-Dichloroethane
Concen: 0.540 ppbv
RT: 3.214 min Scan# 966
Delta R.T. -0.000 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

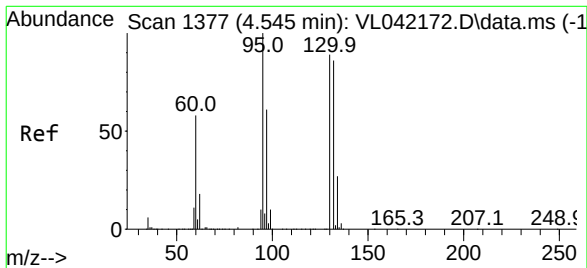
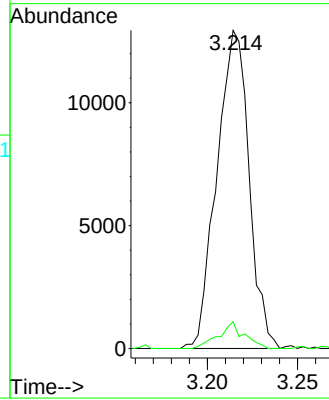
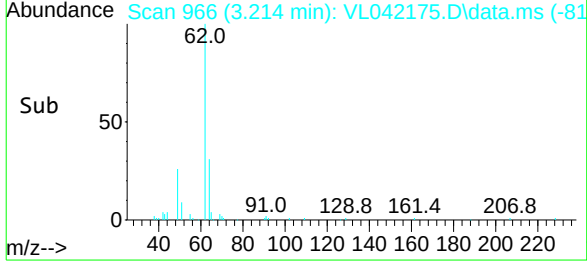
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5



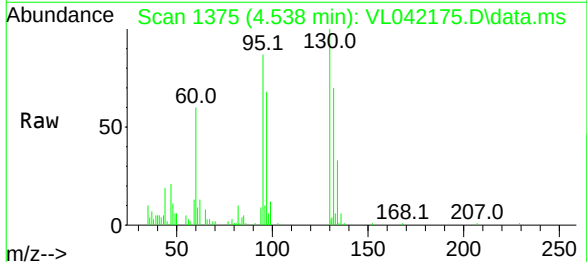
Tgt Ion: 62 Resp: 16062
Ion Ratio Lower Upper
62 100
98 7.0 5.4 8.2

Manual Integrations
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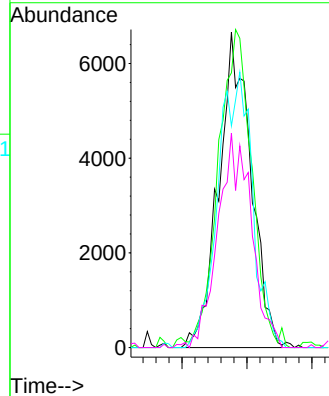
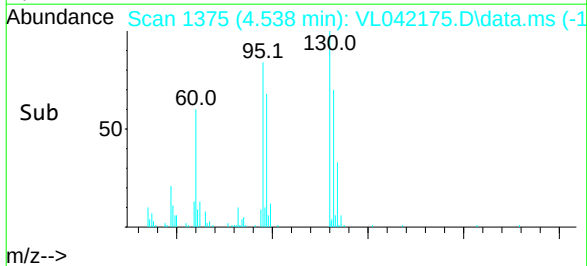
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025

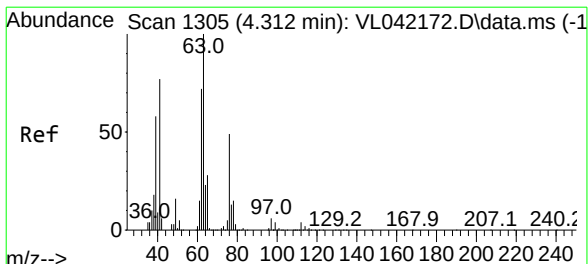


#38
Trichloroethene
Concen: 0.529 ppbv m
RT: 4.538 min Scan# 1375
Delta R.T. -0.007 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01



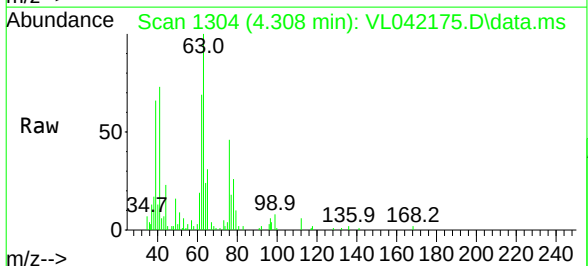
Tgt Ion:130 Resp: 11460
Ion Ratio Lower Upper
130 100
95 87.1 89.8 134.8#
132 70.3 77.4 116.2#
97 68.0 55.1 82.7





#39
 1,2-Dichloropropane
 Concen: 0.535 ppbv
 RT: 4.308 min Scan# 1305
 Delta R.T. -0.003 min
 Lab File: VL042175.D
 Acq: 27 Mar 2025 10:01

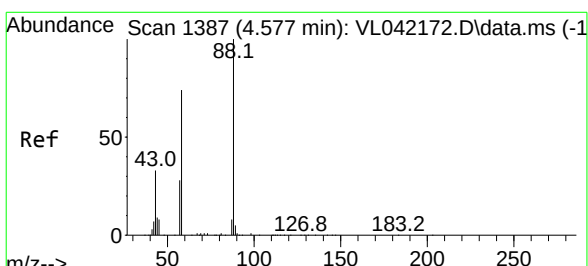
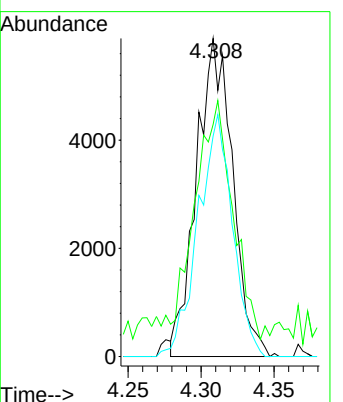
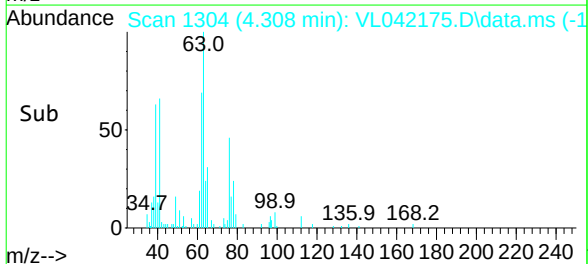
Instrument : MSVOA_1
 ClientSampleId : VSTDIC0.5



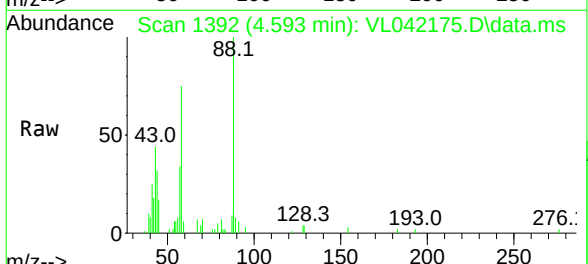
Tgt Ion: 63 Resp: 10123

Ion	Ratio	Lower	Upper
63	100		
41	66.4	61.7	92.5
62	69.3	57.6	86.4

Manual Integrations
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 Reviewed By :Semsettin Yesilyurt 03/31/2025
 Supervised By :Mahesh Dadoda 04/03/2025

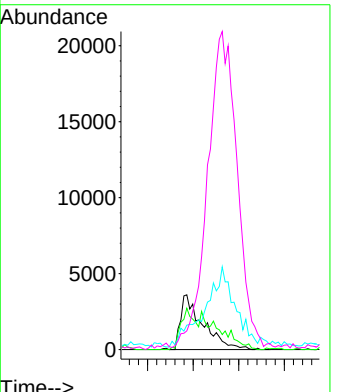
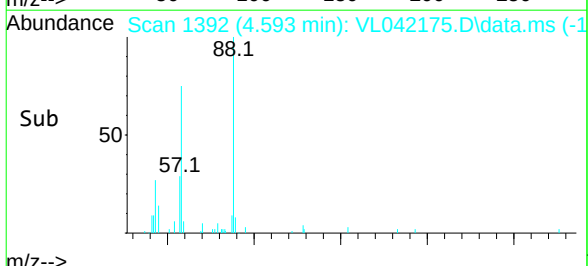


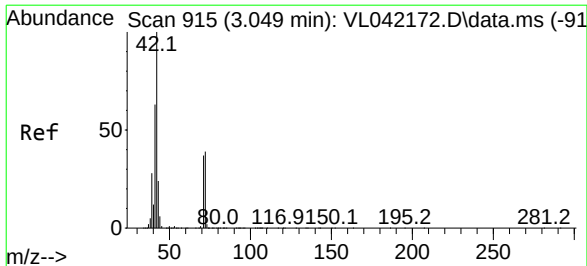
#40
 1,4-Dioxane
 Concen: 0.624 ppbv m
 RT: 4.593 min Scan# 1392
 Delta R.T. 0.016 min
 Lab File: VL042175.D
 Acq: 27 Mar 2025 10:01



Tgt Ion: 88 Resp: 6121

Ion	Ratio	Lower	Upper
88	100		
58	111.2	62.7	94.1#
43	0.0	23.0	34.4#
57	0.0	0.0	0.0





#41

Tetrahydrofuran

Concen: 0.533 ppbv m

RT: 3.059 min Scan# 91

Delta R.T. 0.010 min

Lab File: VL042175.D

Acq: 27 Mar 2025 10:01

Instrument :

MSVOA_L

ClientSampleId :

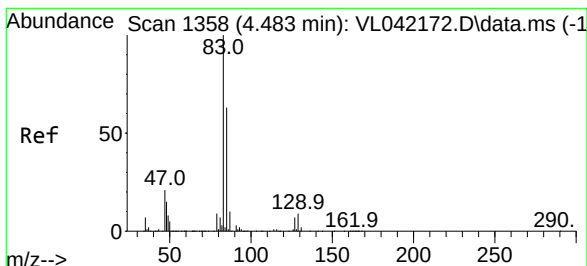
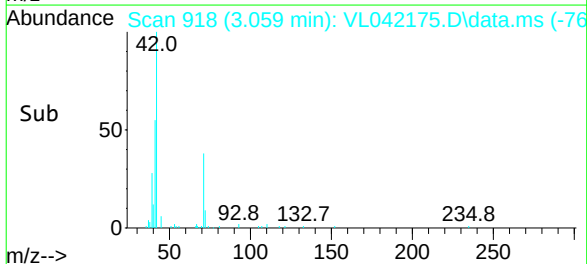
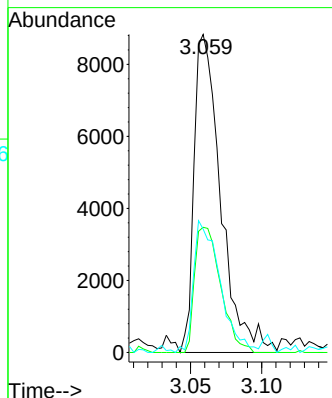
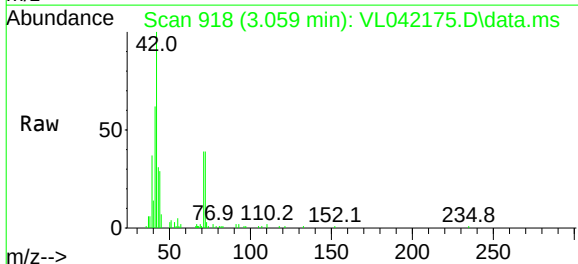
VSTDICC0.5

Tgt Ion:	42	Resp:	11509
Ion	Ratio	Lower	Upper
42	100		
72	38.4	31.4	47.0
71	40.7	30.2	45.4

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#42

Bromodichloromethane

Concen: 0.497 ppbv

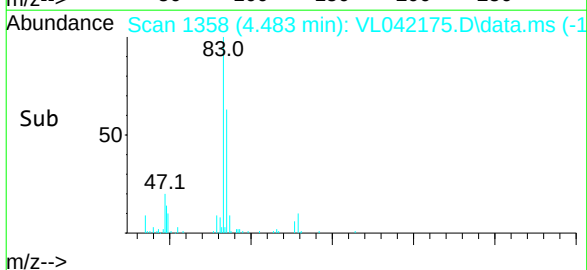
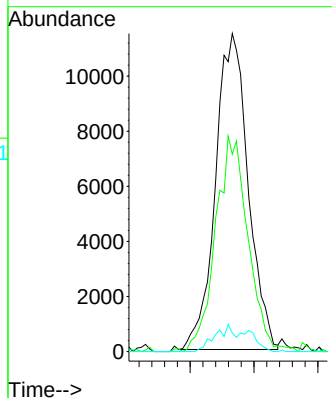
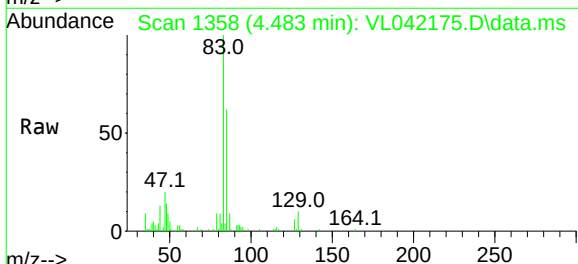
RT: 4.483 min Scan# 1358

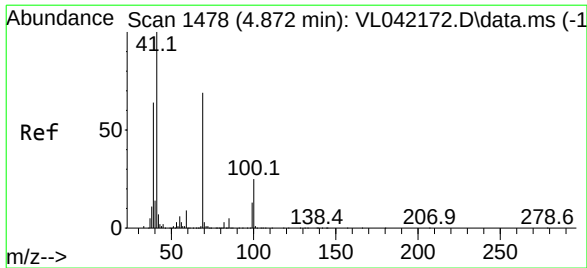
Delta R.T. -0.000 min

Lab File: VL042175.D

Acq: 27 Mar 2025 10:01

Tgt Ion:	83	Resp:	20374
Ion	Ratio	Lower	Upper
83	100		
85	61.6	50.5	75.7
127	5.9	5.9	8.9#





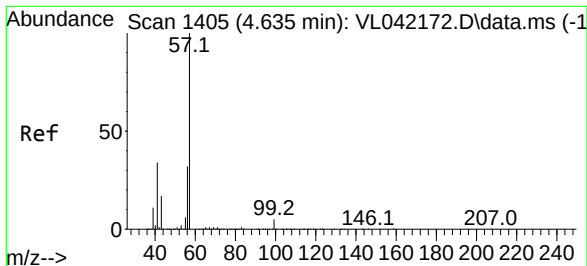
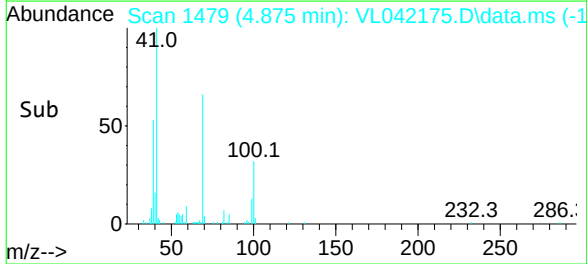
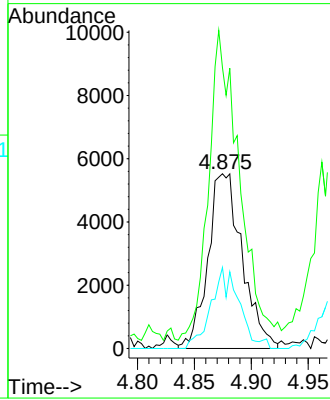
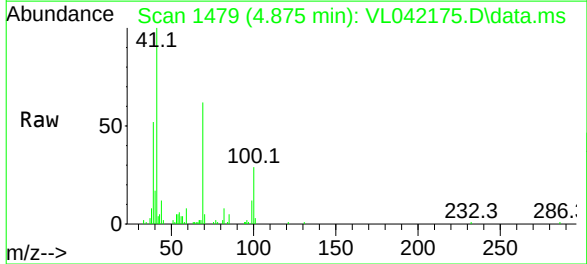
#43
Methyl Methacrylate
Concen: 0.528 ppbv m
RT: 4.875 min Scan# 1478
Delta R.T. 0.003 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tgt Ion	Ratio	Lower	Upper
69	100		
41	150.3	123.8	185.6
100	37.9	28.4	42.6

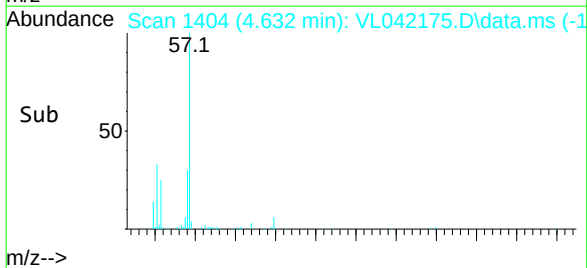
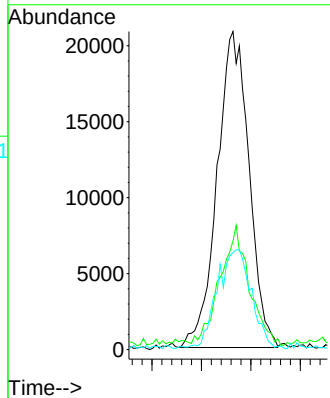
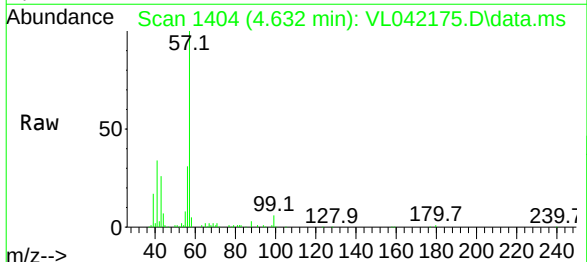
Manual Integrations
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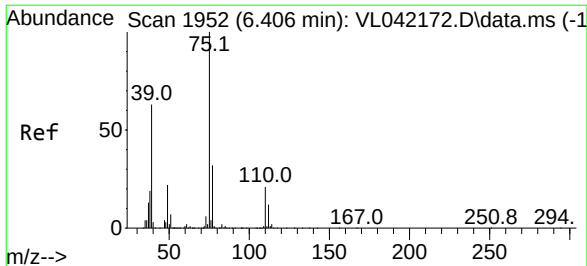
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#44
2,2,4-Trimethylpentane
Concen: 0.532 ppbv
RT: 4.632 min Scan# 1404
Delta R.T. -0.003 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

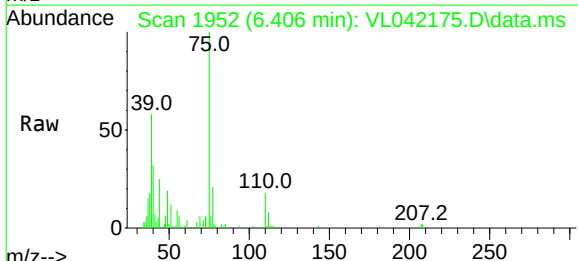
Tgt Ion	Ratio	Lower	Upper
57	100		
41	36.7	26.8	40.2
56	34.3	25.6	38.4





#45
 t-1,3-Dichloropropene
 Concen: 0.526 ppbv
 RT: 6.406 min Scan# 1952
 Delta R.T. -0.000 min
 Lab File: VL042175.D
 Acq: 27 Mar 2025 10:01

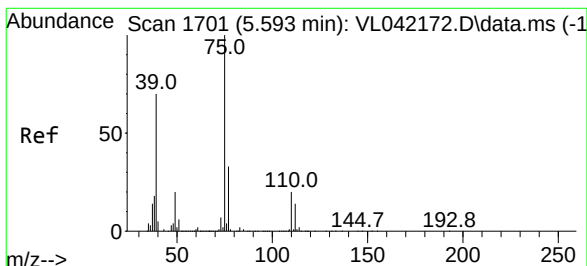
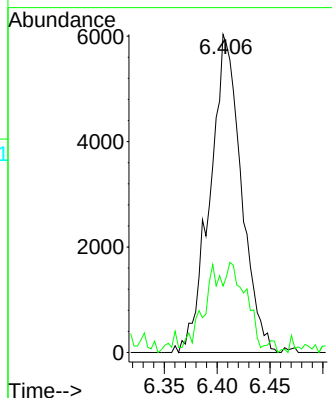
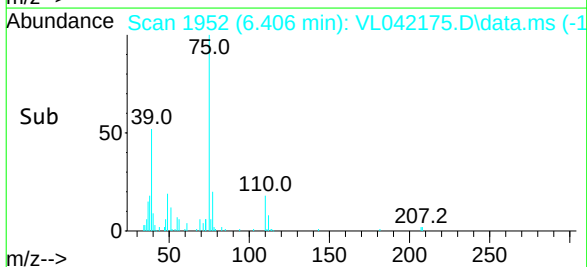
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5



Tgt Ion: 75 Resp: 12404
 Ion Ratio Lower Upper
 75 100
 77 20.9 26.0 39.0#

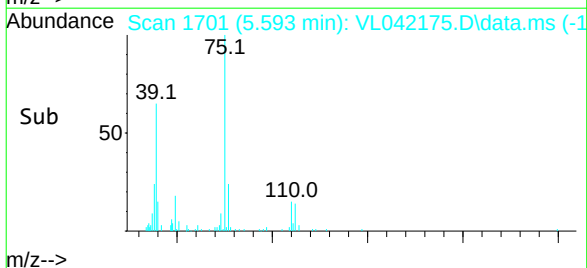
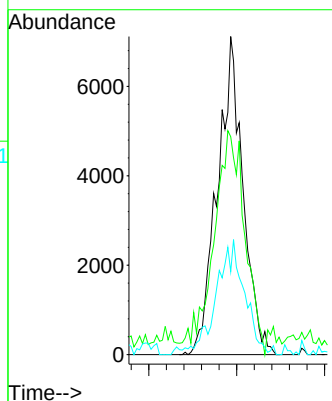
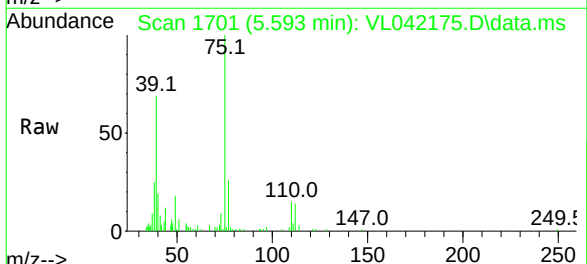
Manual Integrations
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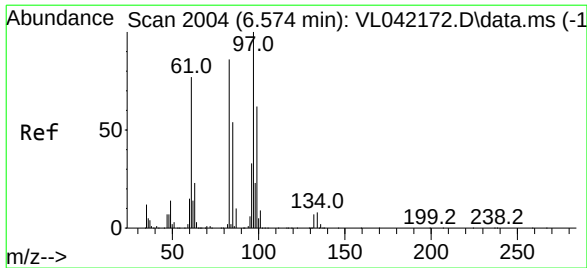
Reviewed By :Semsettin Yesilyurt 03/31/2025
 Supervised By :Mahesh Dadoda 04/03/2025



#46
 cis-1,3-Dichloropropene
 Concen: 0.497 ppbv m
 RT: 5.593 min Scan# 1701
 Delta R.T. -0.000 min
 Lab File: VL042175.D
 Acq: 27 Mar 2025 10:01

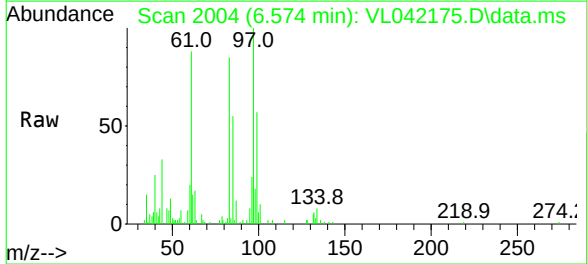
Tgt Ion: 75 Resp: 14374
 Ion Ratio Lower Upper
 75 100
 39 68.5 55.8 83.6
 77 26.1 26.0 39.0





#47
1,1,2-Trichloroethane
Concen: 0.549 ppbv m
RT: 6.574 min Scan# 2004
Delta R.T. -0.000 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

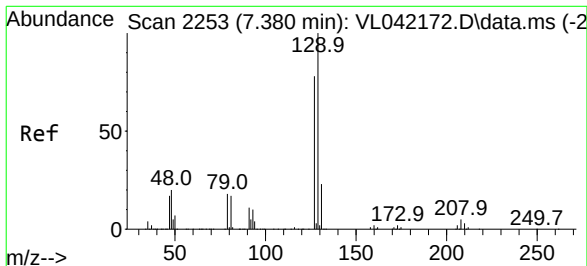
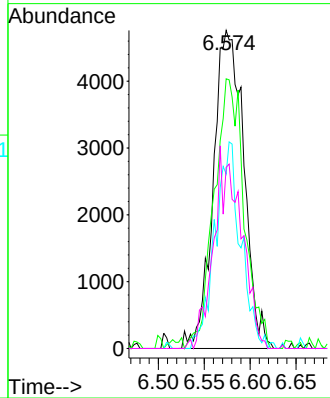
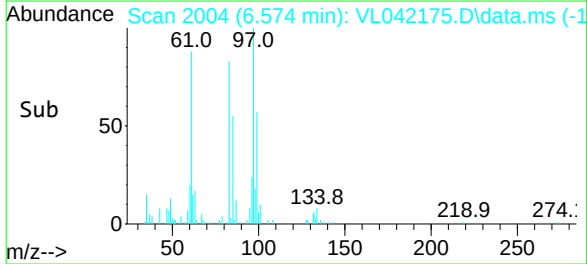
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5



Tgt Ion	Ratio	Lower	Upper
97	100		
83	84.8	69.2	103.8
85	54.9	43.1	64.7
99	57.0	49.4	74.2

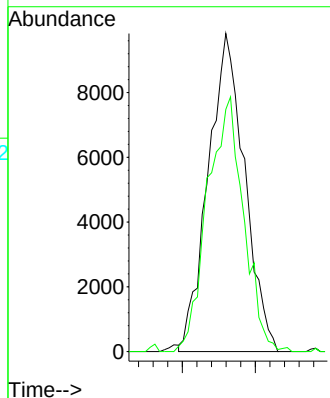
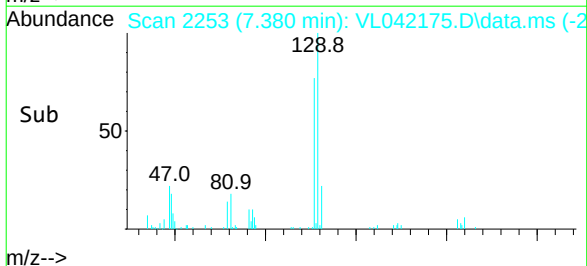
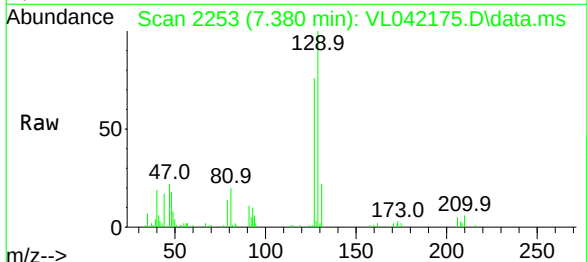
Manual Integrations
APPROVED

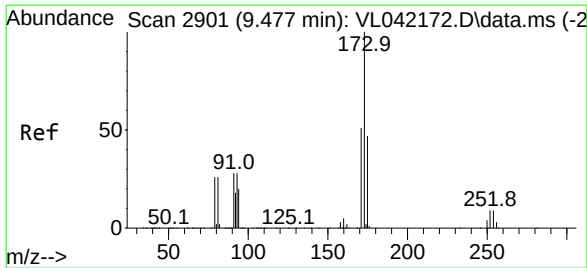
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#48
Dibromochloromethane
Concen: 0.503 ppbv
RT: 7.380 min Scan# 2253
Delta R.T. -0.000 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

Tgt Ion	Ratio	Lower	Upper
129	100		
127	79.4	39.1	117.2





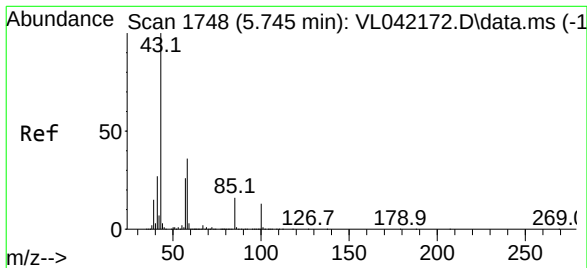
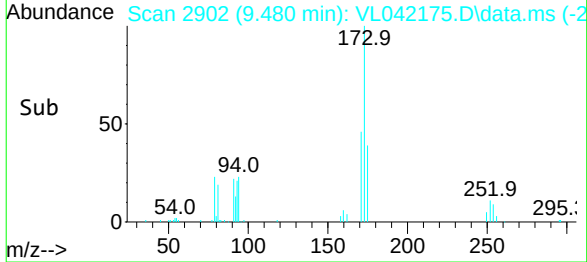
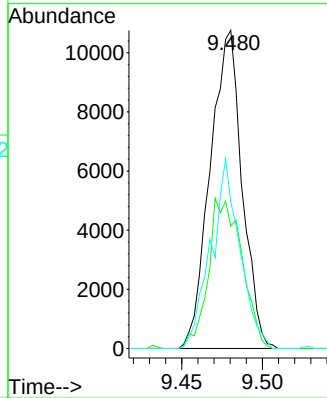
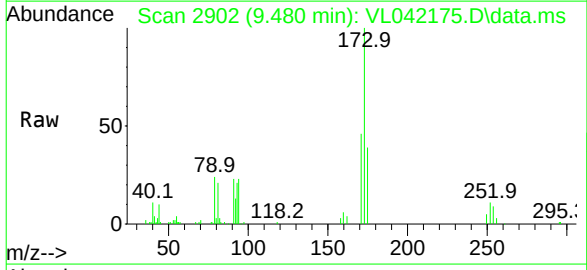
#49
Bromoform
Concen: 0.487 ppbv
RT: 9.480 min Scan# 2901
Delta R.T. 0.003 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tgt Ion: 173 Resp: 14828
Ion Ratio Lower Upper
173 100
175 49.7 38.6 57.8
171 53.8 41.8 62.6

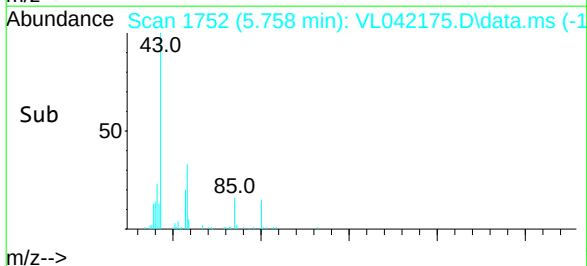
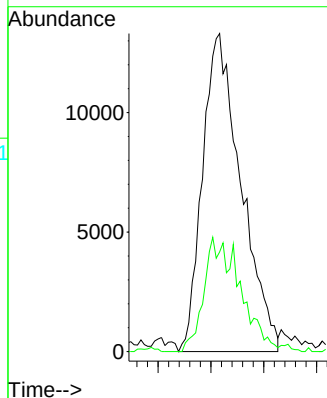
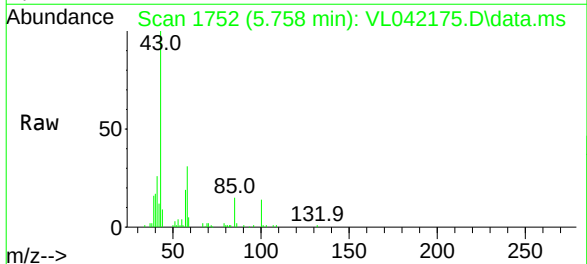
Manual Integrations
APPROVED

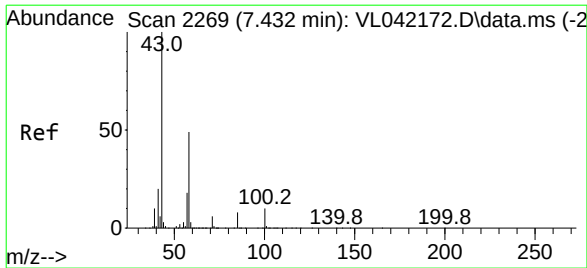
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#50
4-Methyl-2-Pentanone
Concen: 0.559 ppbv
RT: 5.758 min Scan# 1752
Delta R.T. 0.013 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

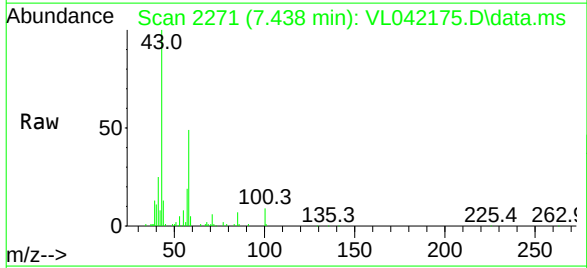
Tgt Ion: 43 Resp: 33674
Ion Ratio Lower Upper
43 100
58 34.4 29.0 43.6





#51
2-Hexanone
Concen: 0.523 ppbv
RT: 7.438 min Scan# 2269
Delta R.T. 0.006 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

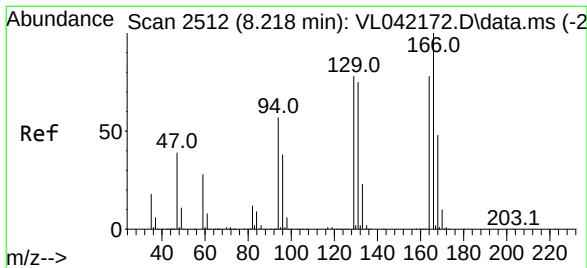
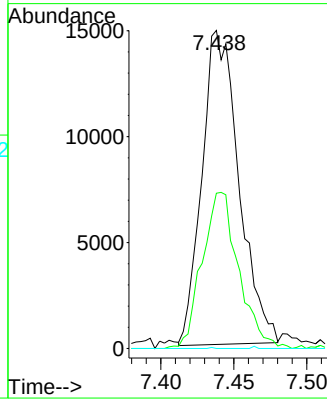
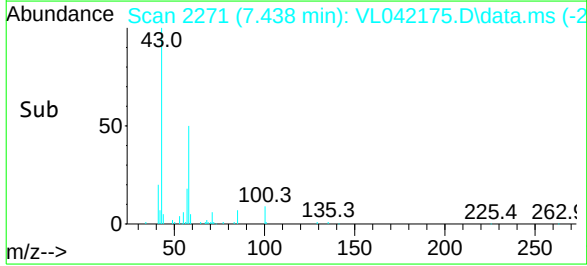
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5



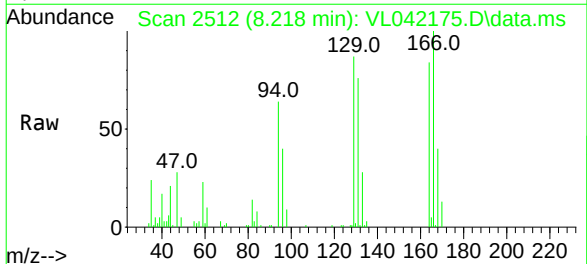
Tgt Ion: 43 Resp: 26154
Ion Ratio Lower Upper
43 100
58 49.8 39.7 59.5
98 0.0 0.1 0.1#

Manual Integrations
APPROVED

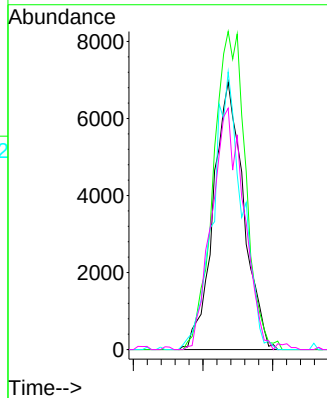
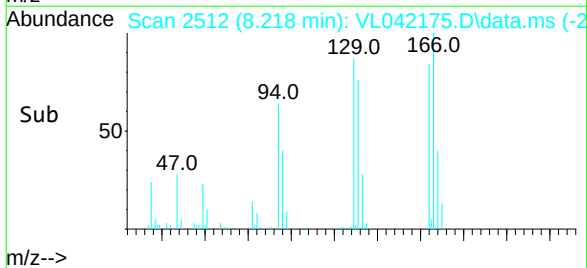
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025

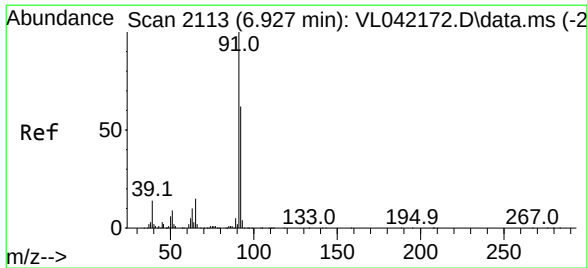


#52
Tetrachloroethene
Concen: 0.510 ppbv
RT: 8.218 min Scan# 2512
Delta R.T. -0.000 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01



Tgt Ion:164 Resp: 10502
Ion Ratio Lower Upper
164 100
166 118.9 102.5 153.7
129 103.8 79.8 119.8
131 90.2 76.6 114.8





#53

Toluene

Concen: 0.527 ppbv

RT: 6.923 min Scan# 2113

Delta R.T. -0.003 min

Lab File: VL042175.D

Acq: 27 Mar 2025 10:01

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC0.5

Tgt Ion: 91 Resp: 32444

Ion Ratio Lower Upper

91 100

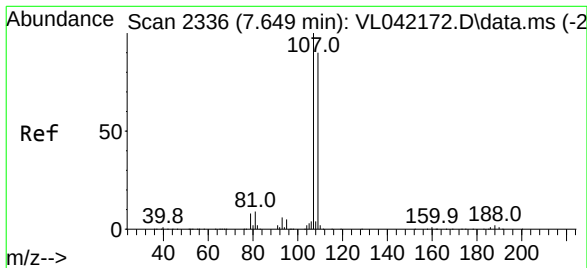
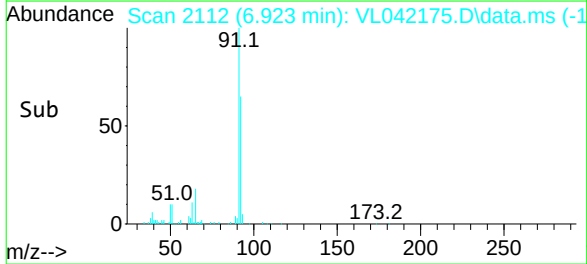
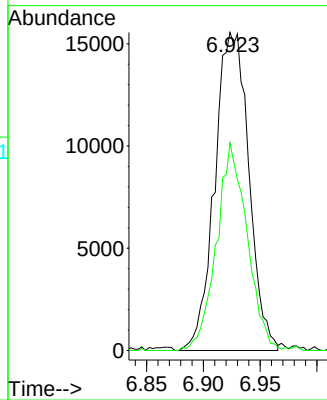
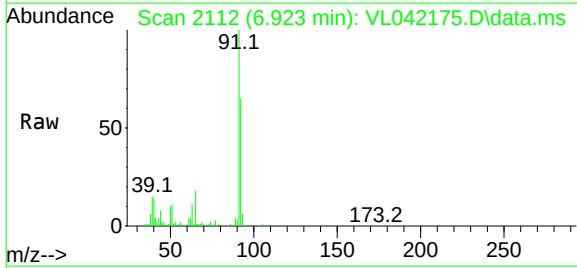
92 58.9 48.4 72.6

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 03/31/2025

Supervised By :Mahesh Dadoda 04/03/2025



#54

1,2-Dibromoethane

Concen: 0.510 ppbv

RT: 7.648 min Scan# 2336

Delta R.T. -0.000 min

Lab File: VL042175.D

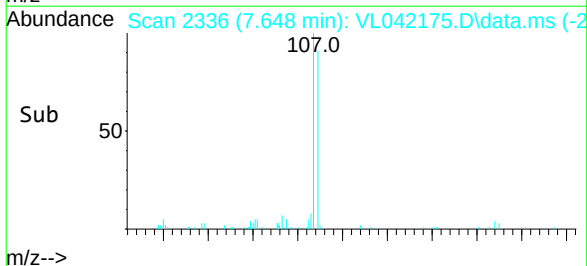
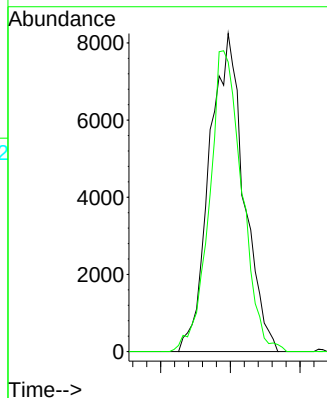
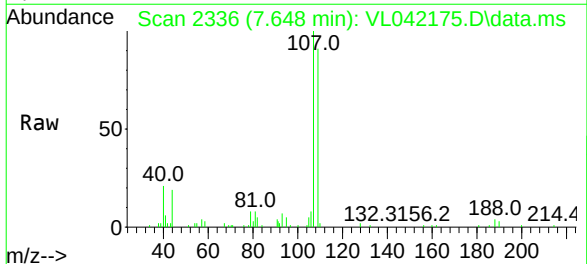
Acq: 27 Mar 2025 10:01

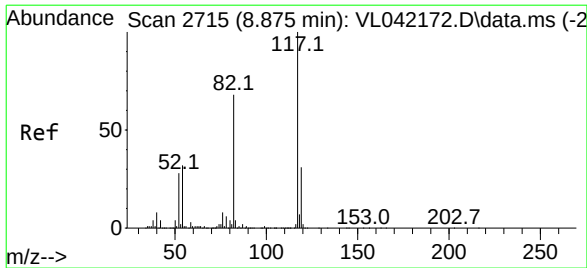
Tgt Ion:107 Resp: 14220

Ion Ratio Lower Upper

107 100

109 89.1 72.2 108.4





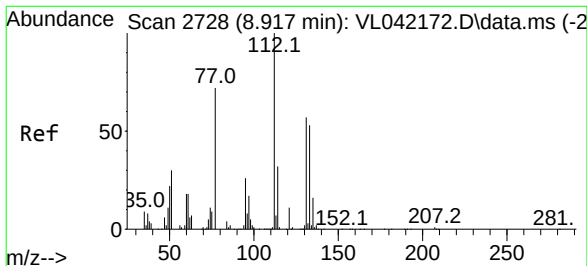
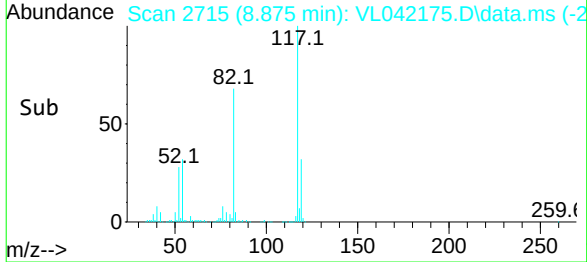
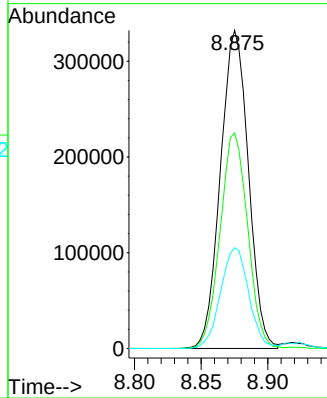
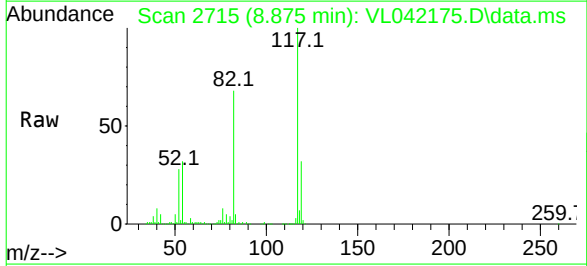
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.875 min Scan# 2715
Delta R.T. -0.000 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tgt Ion:117 Resp: 485078
Ion Ratio Lower Upper
117 100
82 67.0 55.8 83.6
119 33.7 25.5 38.3

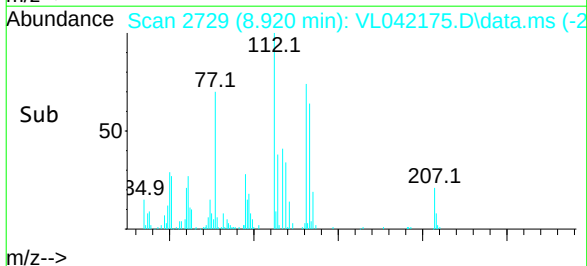
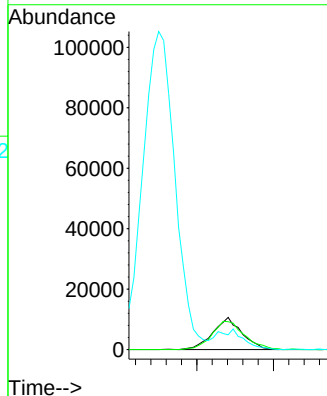
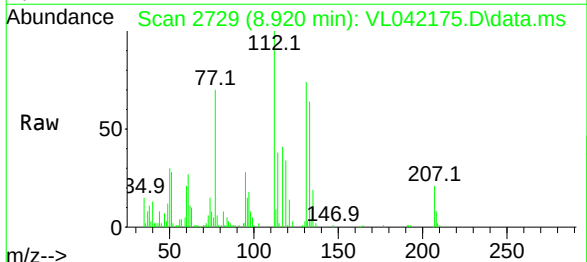
Manual Integrations
APPROVED

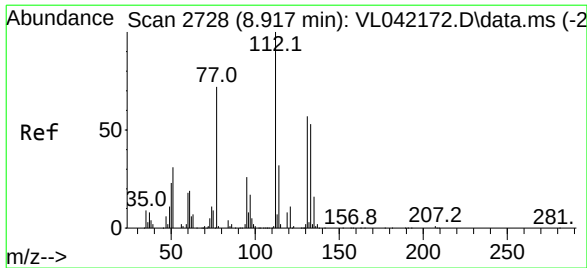
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#56
1,1,1,2-Tetrachloroethane
Concen: 0.523 ppbv
RT: 8.920 min Scan# 2729
Delta R.T. 0.003 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

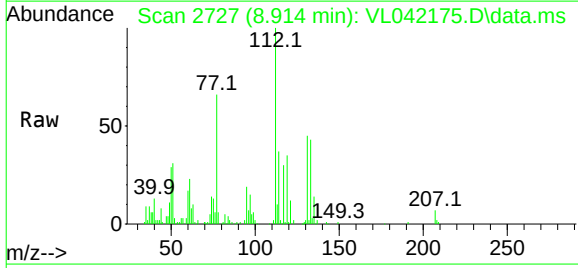
Tgt Ion:131 Resp: 13959
Ion Ratio Lower Upper
131 100
133 99.6 76.6 114.8
119 1170.3 49.8 74.6#





#57
Chlorobenzene
Concen: 0.540 ppbv
RT: 8.914 min Scan# 2728
Delta R.T. -0.003 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

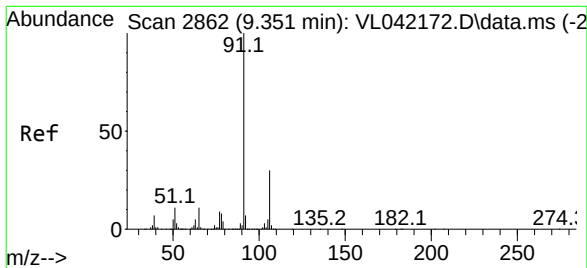
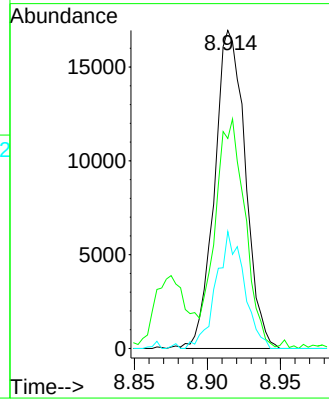
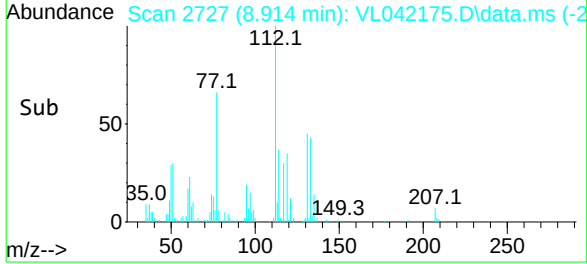
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5



Tgt Ion: 112 Resp: 24826
Ion Ratio Lower Upper
112 100
77 65.1 58.2 87.2
114 36.8 29.1 35.5#

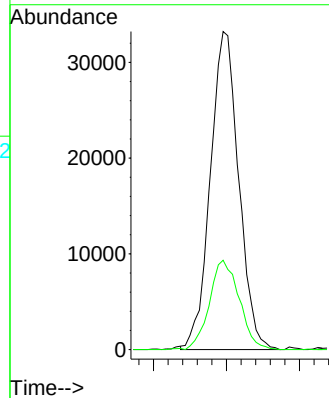
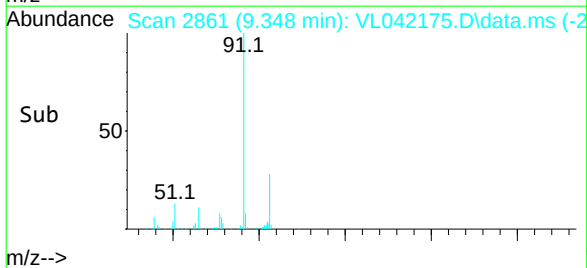
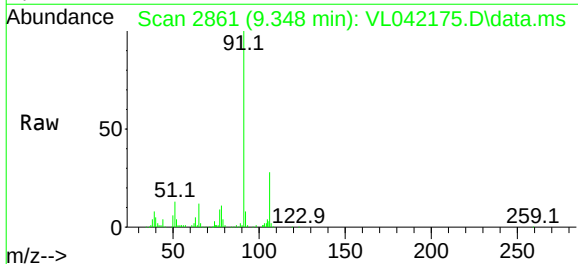
Manual Integrations
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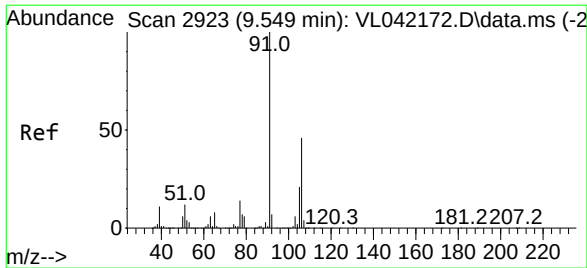
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#58
Ethyl Benzene
Concen: 0.521 ppbv
RT: 9.348 min Scan# 2861
Delta R.T. -0.003 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

Tgt Ion: 91 Resp: 44862
Ion Ratio Lower Upper
91 100
106 28.1 24.2 36.2





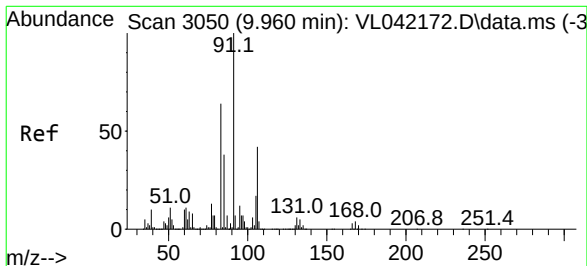
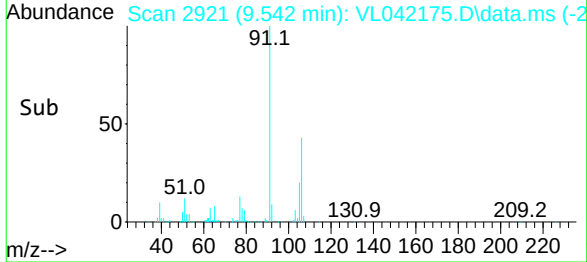
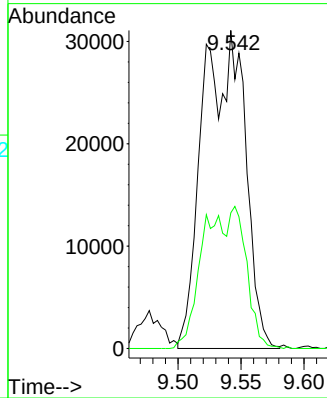
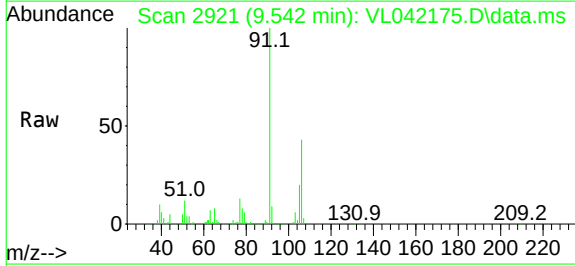
#59
m/p-Xylene
Concen: 1.060 ppbv m
RT: 9.542 min Scan# 29
Delta R.T. -0.007 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion: 91 Resp: 73028
Ion Ratio Lower Upper
91 100
106 45.2 36.4 54.6

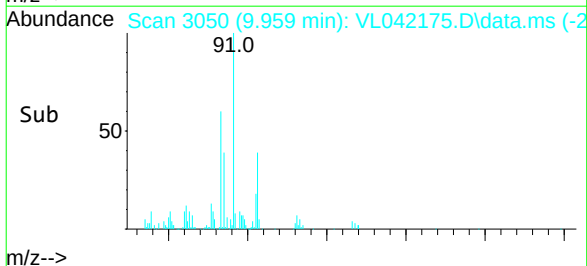
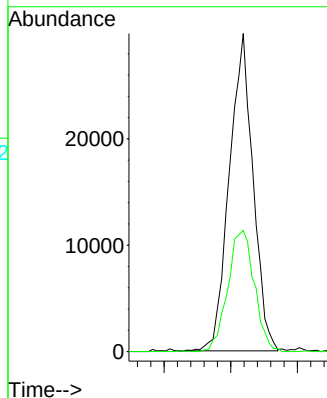
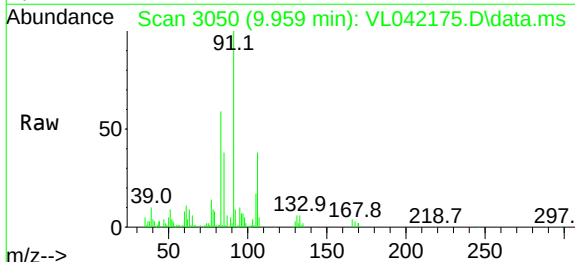
Manual Integrations
APPROVED

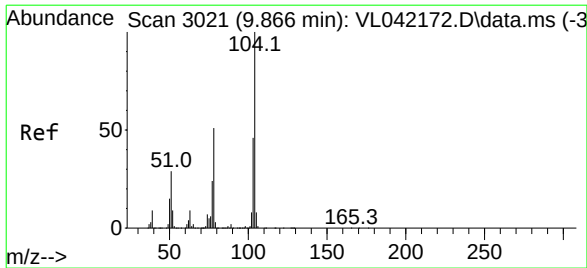
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#60
o-Xylene
Concen: 0.535 ppbv
RT: 9.959 min Scan# 3050
Delta R.T. -0.000 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

Tgt Ion: 91 Resp: 36879
Ion Ratio Lower Upper
91 100
106 42.7 20.8 62.5





#61

Styrene

Concen: 0.504 ppbv

RT: 9.866 min Scan# 3021

Delta R.T. -0.000 min

Lab File: VL042175.D

Acq: 27 Mar 2025 10:01

Instrument :

MSVOA_L

ClientSampleId :

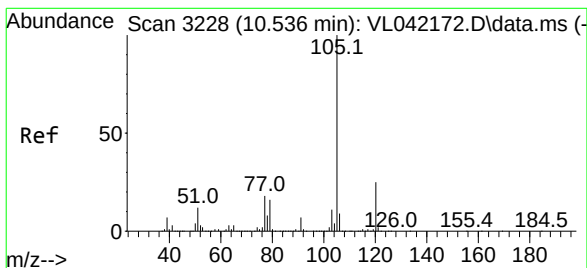
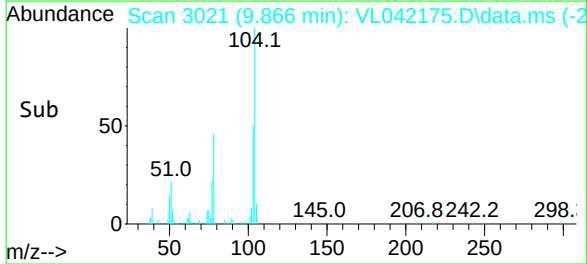
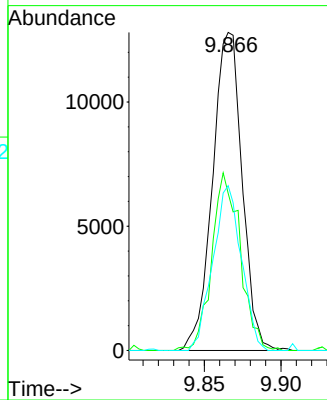
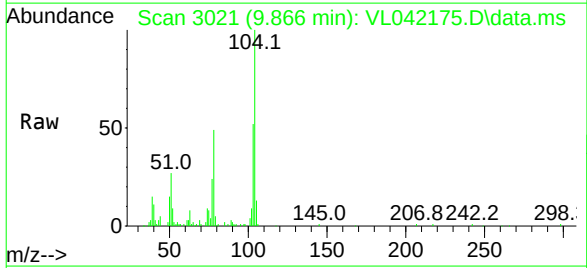
VSTDICC0.5

Tgt Ion:	104	Resp:	17198
Ion	Ratio	Lower	Upper
104	100		
78	53.7	41.8	62.6
103	50.2	37.0	55.4

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#62

Isopropylbenzene

Concen: 0.538 ppbv

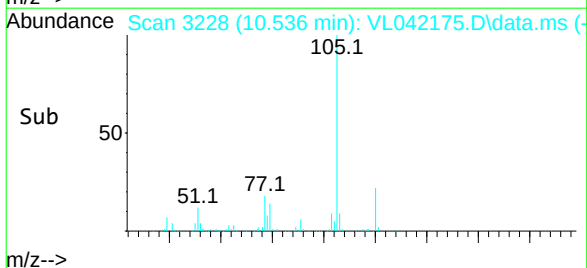
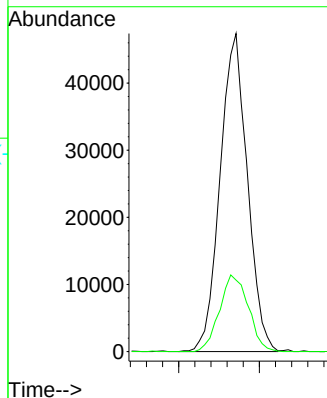
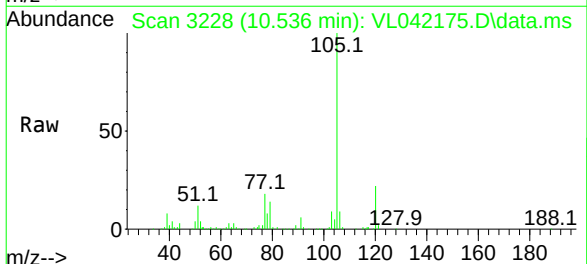
RT: 10.536 min Scan# 3228

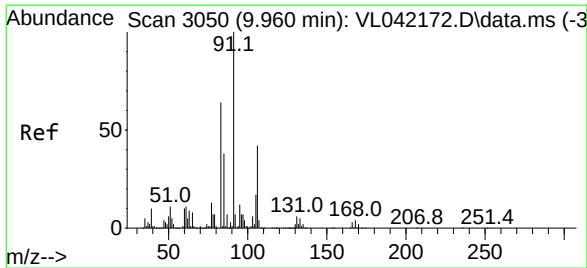
Delta R.T. -0.000 min

Lab File: VL042175.D

Acq: 27 Mar 2025 10:01

Tgt Ion:	105	Resp:	55531
Ion	Ratio	Lower	Upper
105	100		
120	25.5	19.9	29.9





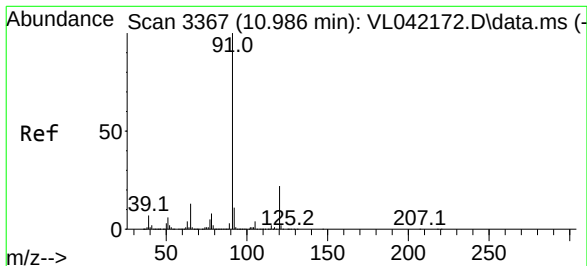
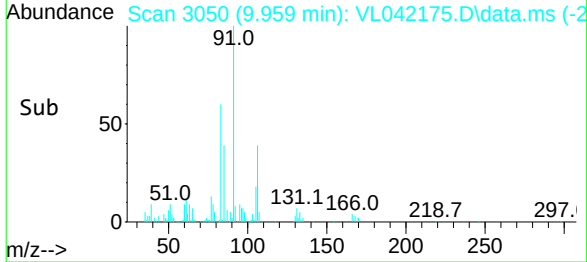
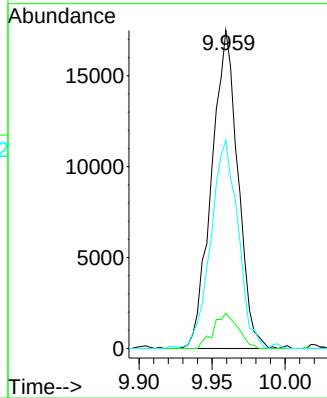
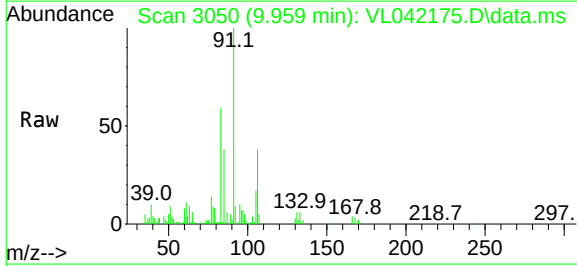
#63
1,1,2,2-Tetrachloroethane
Concen: 0.525 ppbv
RT: 9.959 min Scan# 3050
Delta R.T. -0.000 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion	Ratio	Lower	Upper
83	100		
131	10.4	4.8	14.4
85	68.1	32.5	97.5

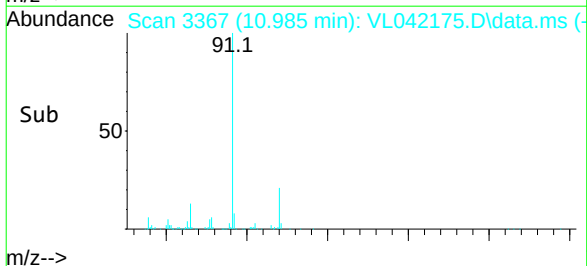
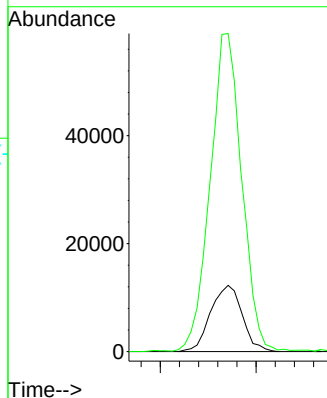
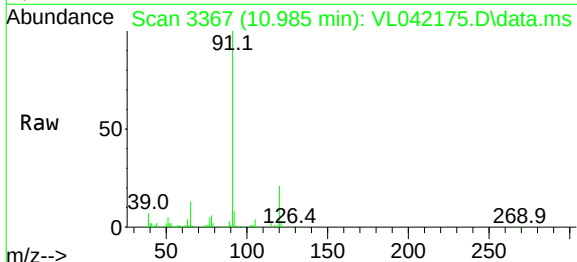
Manual Integrations
APPROVED

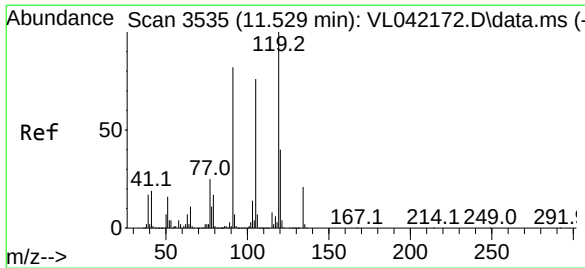
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#64
n-propylbenzene
Concen: 0.528 ppbv
RT: 10.985 min Scan# 3367
Delta R.T. -0.000 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

Tgt Ion	Ratio	Lower	Upper
120	100		
91	483.1	376.9	565.3





#65

tert-Butylbenzene

Concen: 0.557 ppbv

RT: 11.526 min Scan# 3511

Delta R.T. -0.003 min

Lab File: VL042175.D

Acq: 27 Mar 2025 10:01

Instrument :

MSVOA_L

ClientSampleId :

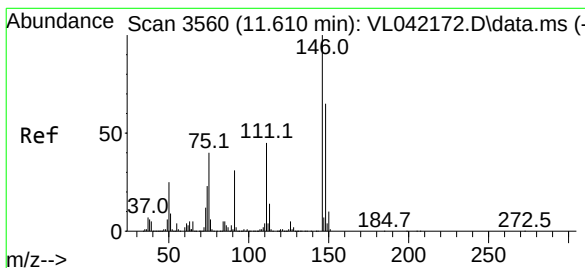
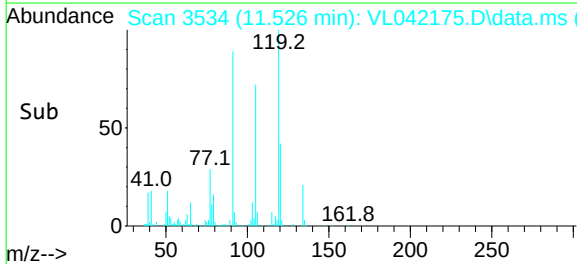
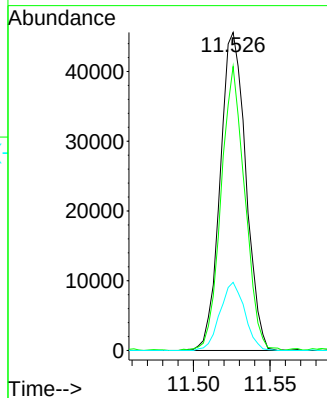
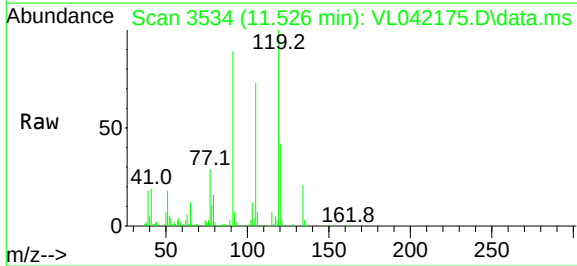
VSTDICC0.5

Tgt Ion:	119	Resp:	53115
Ion	Ratio	Lower	Upper
119	100		
91	82.9	66.0	99.0
134	20.6	16.7	25.1

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#66

Benzyl Chloride

Concen: 0.520 ppbv

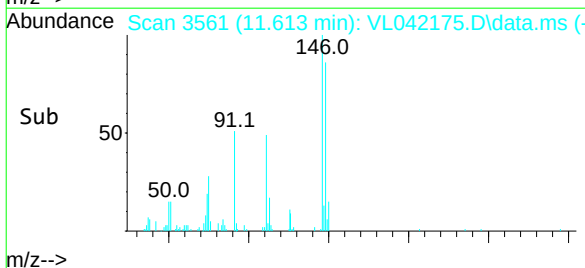
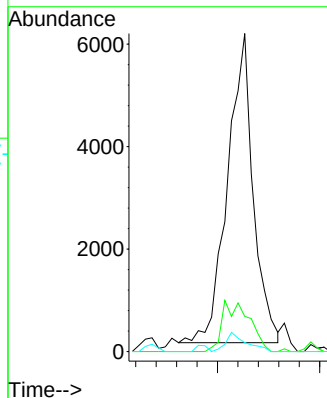
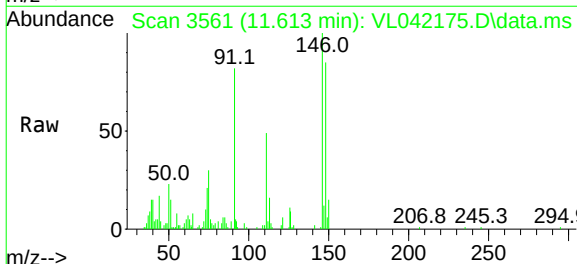
RT: 11.613 min Scan# 3561

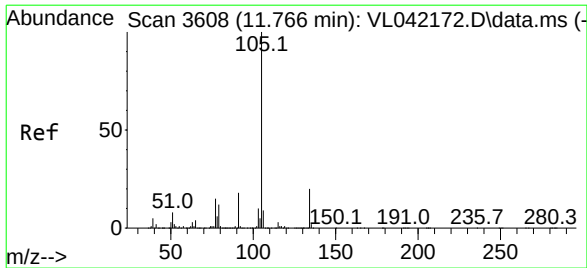
Delta R.T. 0.003 min

Lab File: VL042175.D

Acq: 27 Mar 2025 10:01

Tgt Ion:	91	Resp:	5263
Ion	Ratio	Lower	Upper
91	100		
126	18.7	13.8	20.6
128	5.8	4.5	6.7





#67

sec-Butylbenzene

Concen: 0.550 ppbv

RT: 11.762 min Scan# 3608

Delta R.T. -0.003 min

Lab File: VL042175.D

Acq: 27 Mar 2025 10:01

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tgt Ion: 105 Resp: 72879

Ion Ratio Lower Upper

105 100

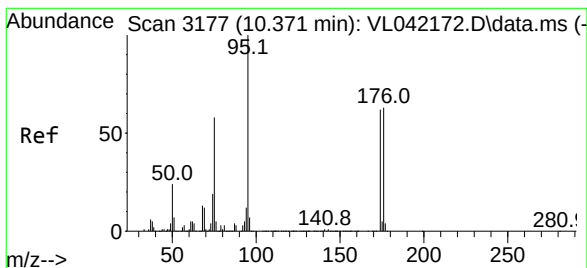
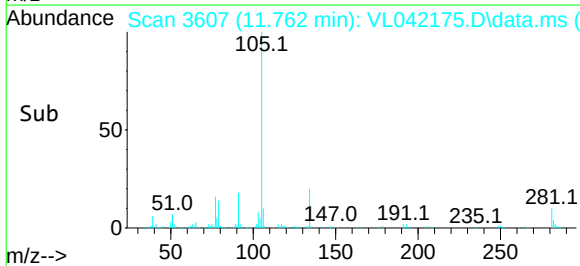
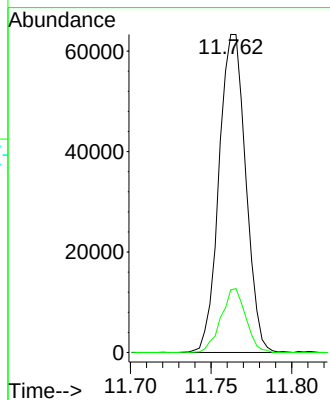
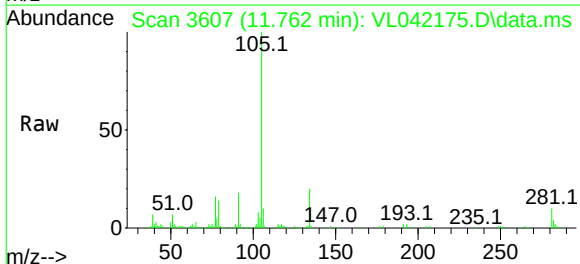
134 18.6 15.5 23.3

Manual Integrations

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Reviewed By : Semsettin Yesilyurt 03/31/2025

Supervised By : Mahesh Dadoda 04/03/2025



#68

1-Bromo-4-Fluorobenzene

Concen: 10.130 ppbv

RT: 10.370 min Scan# 3177

Delta R.T. -0.000 min

Lab File: VL042175.D

Acq: 27 Mar 2025 10:01

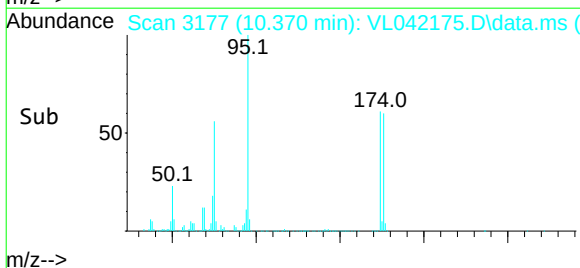
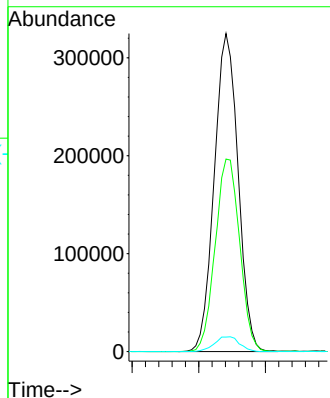
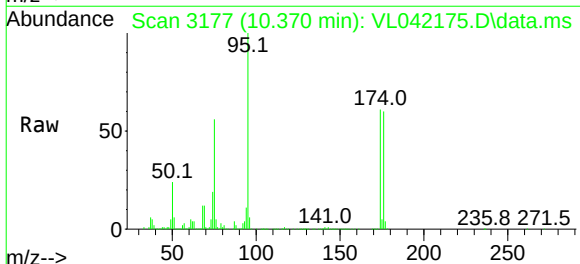
Tgt Ion: 95 Resp: 403513

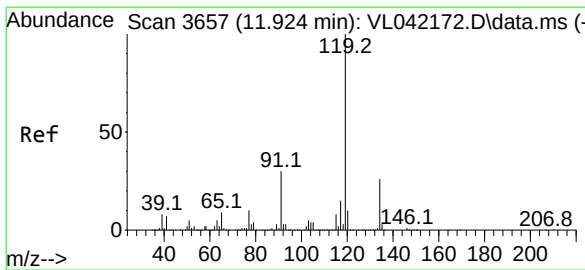
Ion Ratio Lower Upper

95 100

174 62.3 50.6 76.0

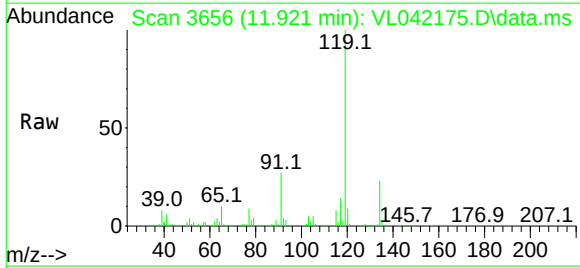
175 4.9 3.8 5.6





#69
p-Isopropyltoluene
Concen: 0.542 ppbv
RT: 11.921 min Scan# 3657
Delta R.T. -0.003 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

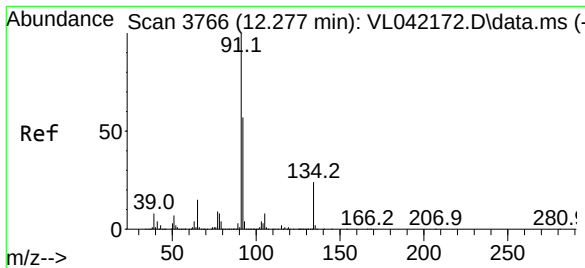
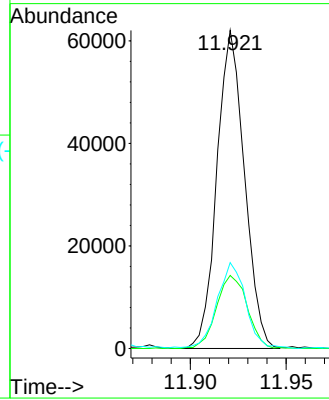
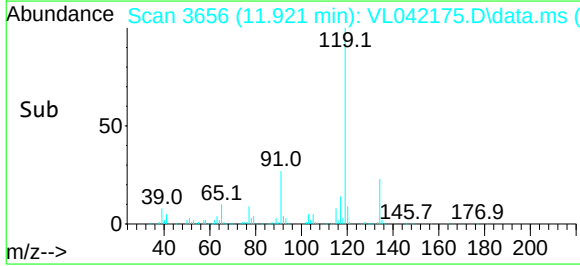
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5



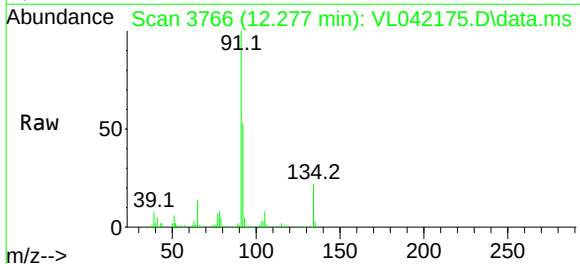
Tgt Ion: 119 Resp: 61933
Ion Ratio Lower Upper
119 100
134 25.8 20.4 30.6
91 29.4 23.7 35.5

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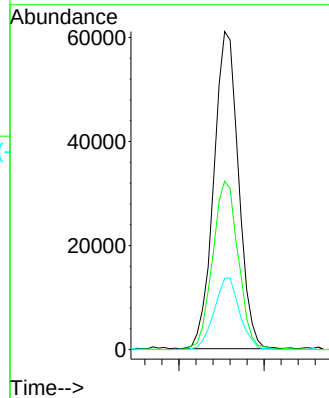
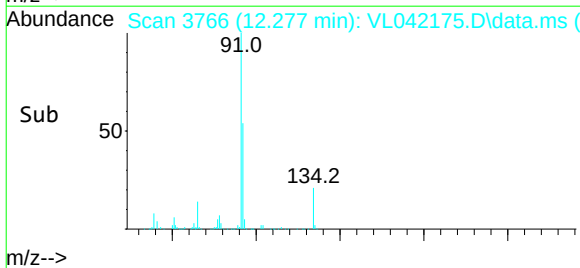
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025

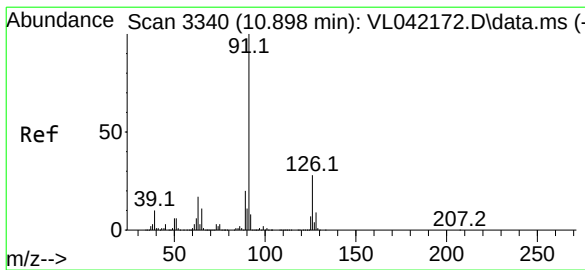


#70
n-Butylbenzene
Concen: 0.527 ppbv
RT: 12.277 min Scan# 3766
Delta R.T. -0.000 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01



Tgt Ion: 91 Resp: 61507
Ion Ratio Lower Upper
91 100
92 55.3 44.9 67.3
134 23.4 19.2 28.8





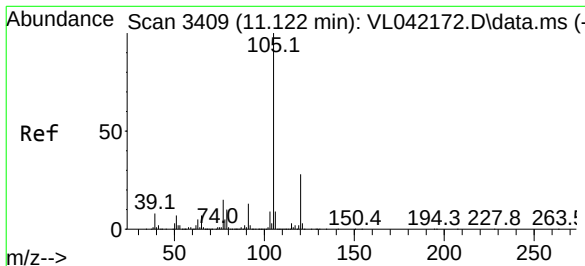
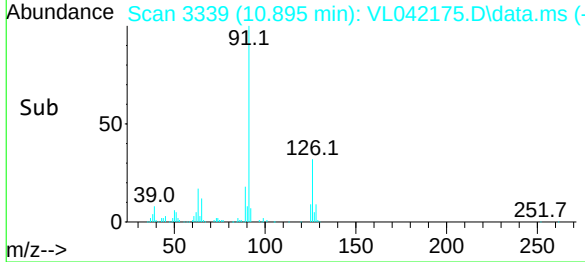
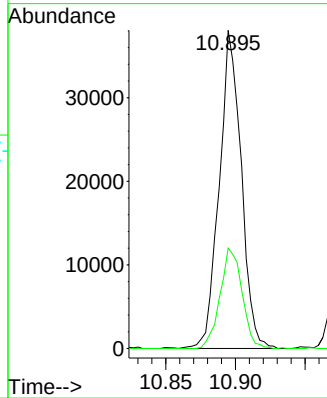
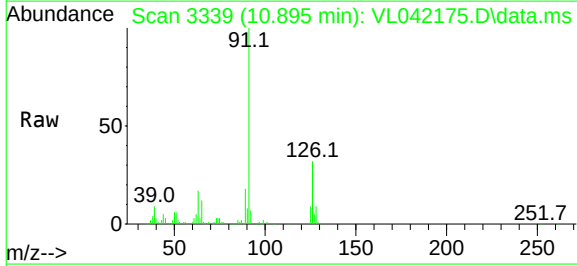
#71
2-Chlorotoluene
Concen: 0.520 ppbv
RT: 10.895 min Scan# 3339
Delta R.T. -0.003 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

Instrument : MSVOA_L
ClientSampleId : VSTDIC0.5

Tgt Ion:	91	Resp:	41637
Ion Ratio	Lower	Upper	
91	100		
126	31.7	11.6	46.4

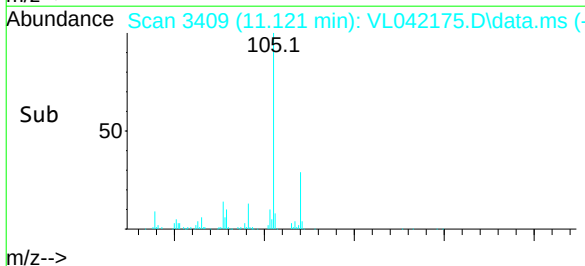
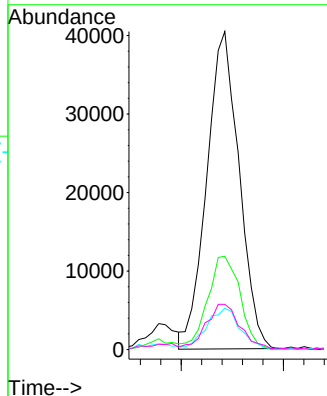
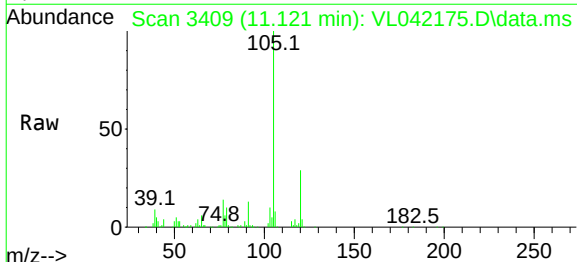
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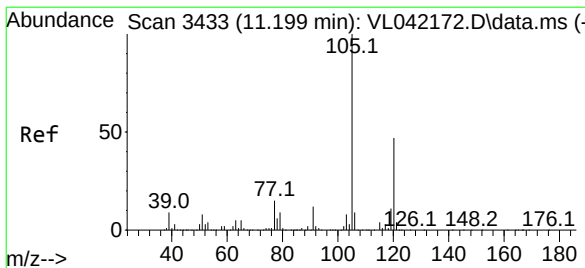
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#72
4-Ethyltoluene
Concen: 0.518 ppbv
RT: 11.121 min Scan# 3409
Delta R.T. -0.000 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

Tgt Ion:	105	Resp:	44473
Ion Ratio	Lower	Upper	
105	100		
120	32.3	23.4	35.0
91	14.9	10.3	15.5
77	17.8	11.4	17.2#





#73

1,3,5-Trimethylbenzene

Concen: 0.523 ppbv

RT: 11.199 min Scan# 3433

Delta R.T. -0.000 min

Lab File: VL042175.D

Acq: 27 Mar 2025 10:01

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tgt Ion:105 Resp: 39190

Ion Ratio Lower Upper

105 100

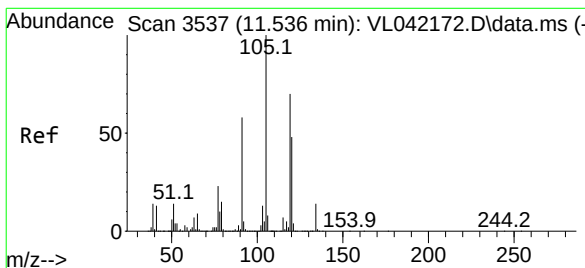
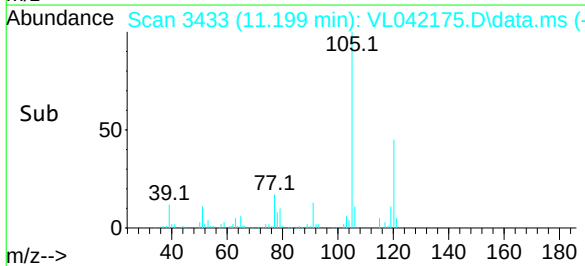
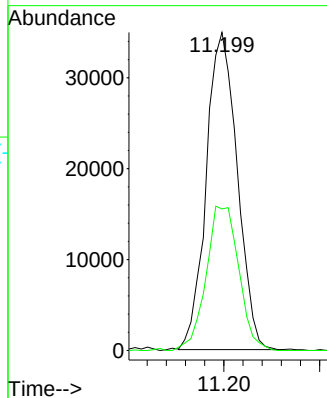
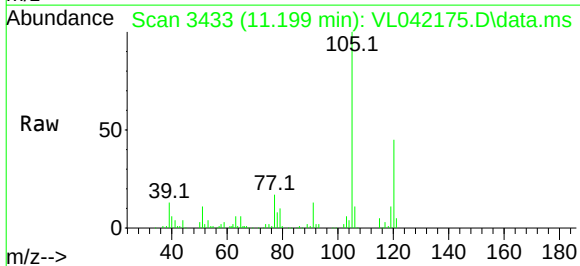
120 44.6 37.4 56.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 03/31/2025

Supervised By :Mahesh Dadoda 04/03/2025



#74

1,2,4-Trimethylbenzene

Concen: 0.560 ppbv

RT: 11.532 min Scan# 3536

Delta R.T. -0.003 min

Lab File: VL042175.D

Acq: 27 Mar 2025 10:01

Tgt Ion:105 Resp: 48370

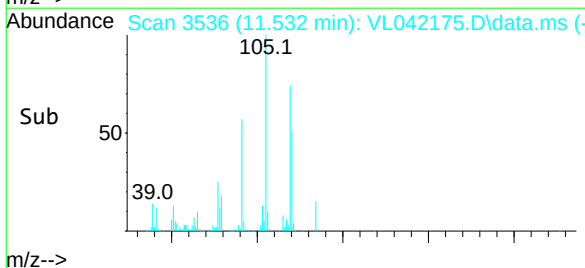
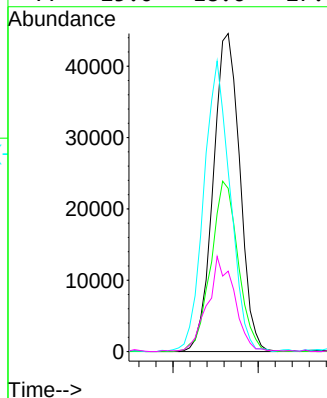
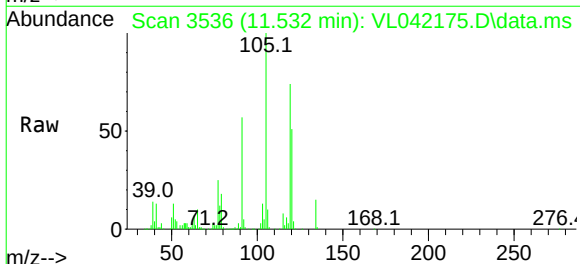
Ion Ratio Lower Upper

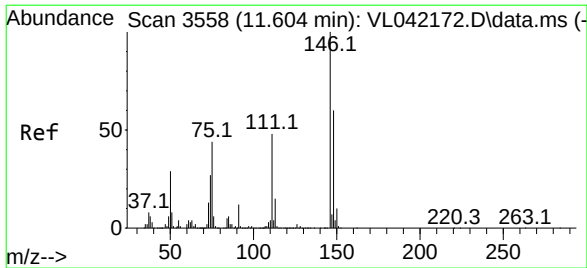
105 100

120 51.3 38.6 58.0

91 56.5 46.2 69.2

77 25.0 18.6 27.8





#75

1,3-Dichlorobenzene

Concen: 0.530 ppbv

RT: 11.600 min Scan# 3558

Delta R.T. -0.003 min

Lab File: VL042175.D

Acq: 27 Mar 2025 10:01

Instrument :

MSVOA_L

ClientSampleId :

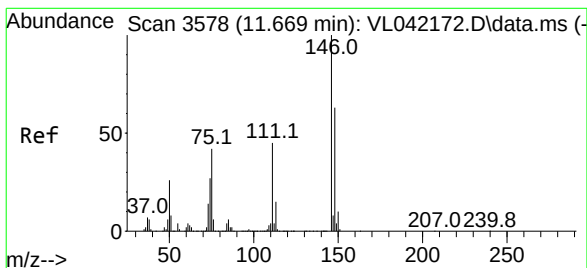
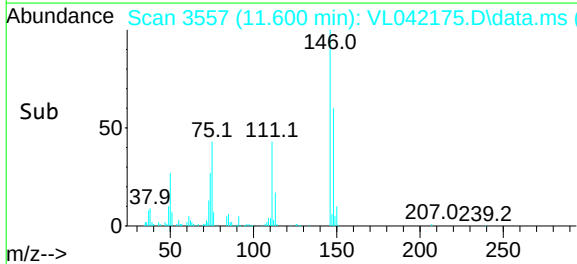
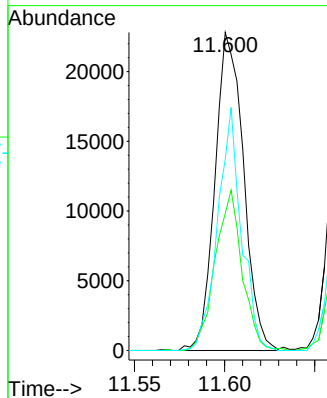
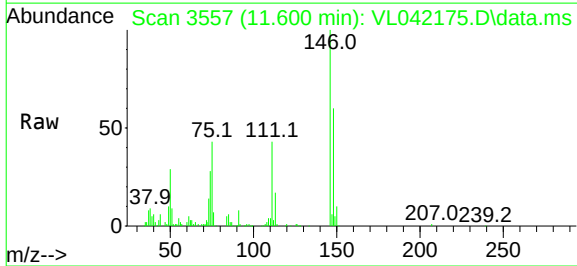
VSTDIC0.5

Tgt Ion:	146	Resp:	25122
Ion Ratio	Lower	Upper	
146	100		
111	47.5	23.8	71.2
148	63.7	31.9	95.9

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#76

1,4-Dichlorobenzene

Concen: 0.530 ppbv

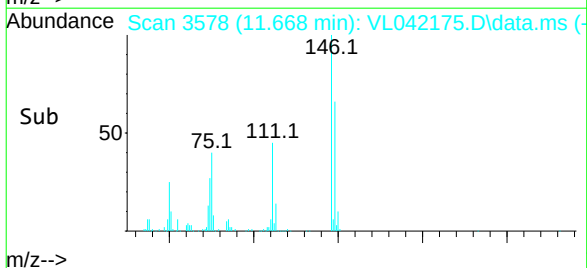
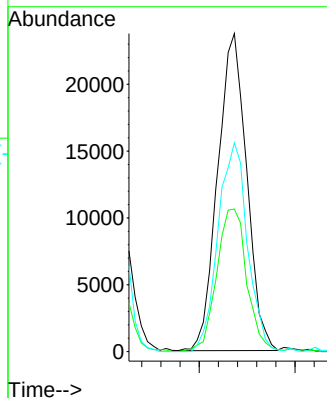
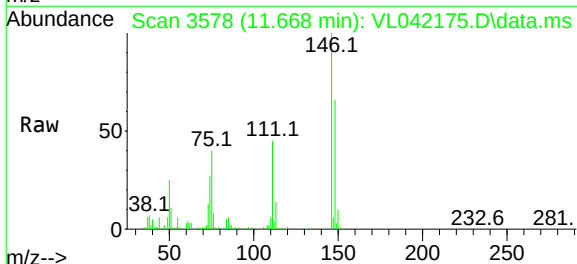
RT: 11.668 min Scan# 3578

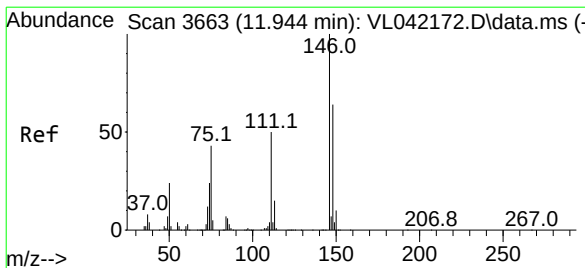
Delta R.T. -0.000 min

Lab File: VL042175.D

Acq: 27 Mar 2025 10:01

Tgt Ion:	146	Resp:	24991
Ion Ratio	Lower	Upper	
146	100		
111	47.0	23.0	69.0
148	67.5	31.9	95.7





#77

1,2-Dichlorobenzene

Concen: 0.532 ppbv

RT: 11.943 min Scan# 3663

Delta R.T. -0.000 min

Lab File: VL042175.D

Acq: 27 Mar 2025 10:01

Instrument :

MSVOA_L

ClientSampleId :

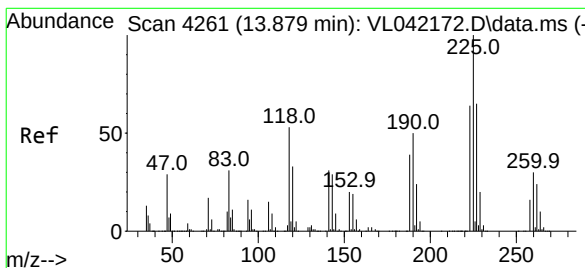
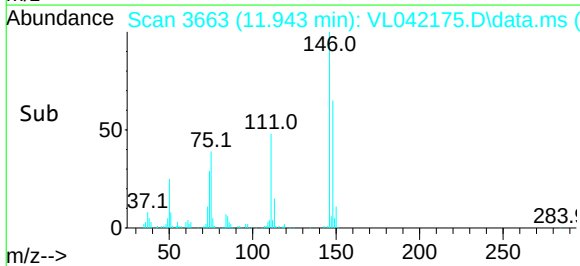
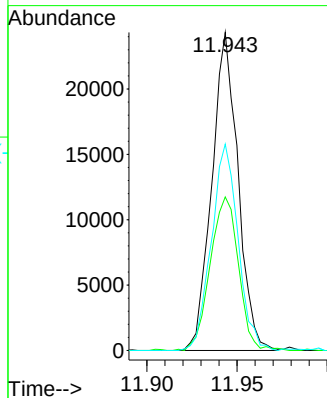
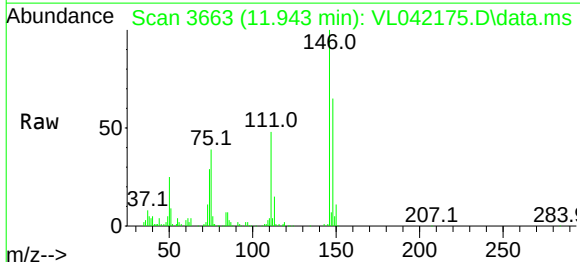
VSTDIC0.5

Tgt Ion:	146	Resp:	24548
Ion Ratio	Lower	Upper	
146	100		
111	52.2	24.8	74.3
148	66.6	31.6	94.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#78

Hexachloro-1,3-Butadiene

Concen: 0.546 ppbv

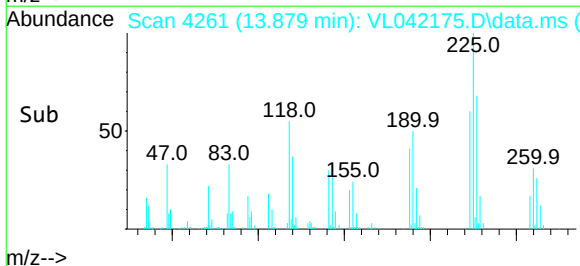
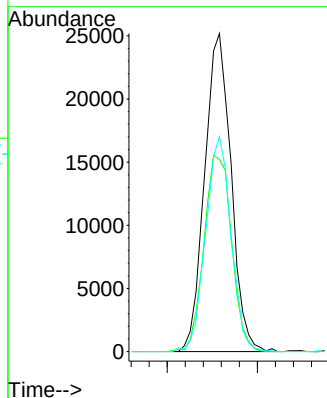
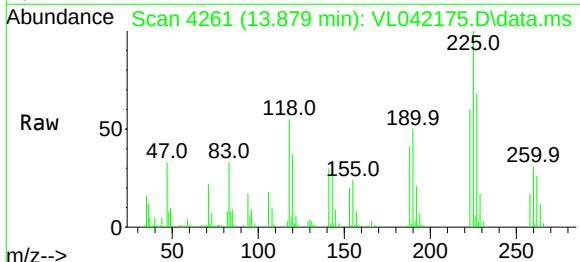
RT: 13.879 min Scan# 4261

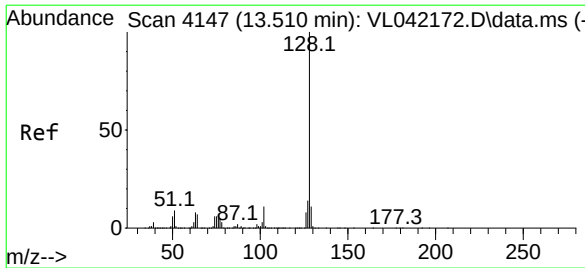
Delta R.T. -0.000 min

Lab File: VL042175.D

Acq: 27 Mar 2025 10:01

Tgt Ion:	225	Resp:	25636
Ion Ratio	Lower	Upper	
225	100		
223	64.5	50.6	76.0
227	64.8	51.2	76.8





#79

Naphthalene

Concen: 0.508 ppbv

RT: 13.510 min Scan# 4147

Delta R.T. -0.000 min

Lab File: VL042175.D

Acq: 27 Mar 2025 10:01

Instrument :

MSVOA_L

ClientSampleId :

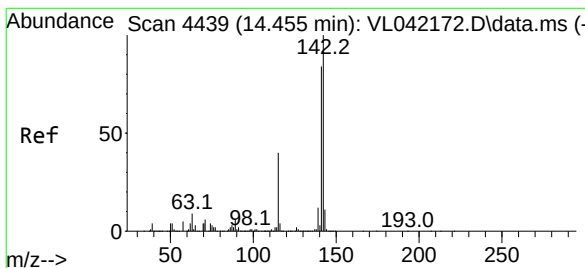
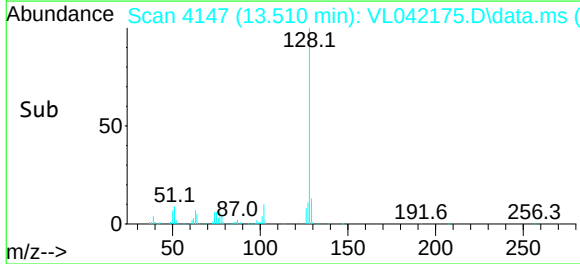
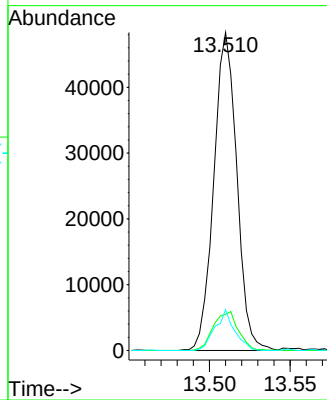
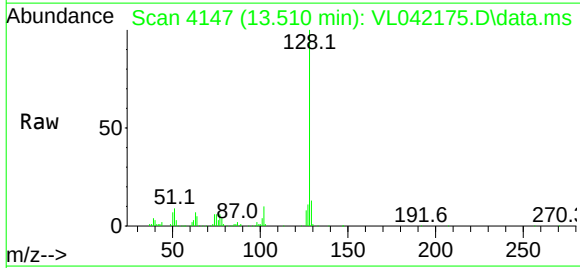
VSTDICC0.5

Tgt Ion:	128	Resp:	47990
Ion Ratio	Lower	Upper	
128	100		
127	11.4	10.8	16.2
129	12.8	9.0	13.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#80

Naphthalene, 2-methyl-

Concen: 0.380 ppbv

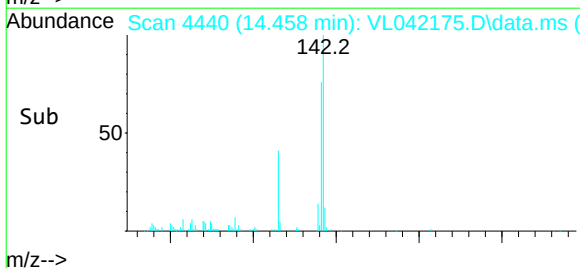
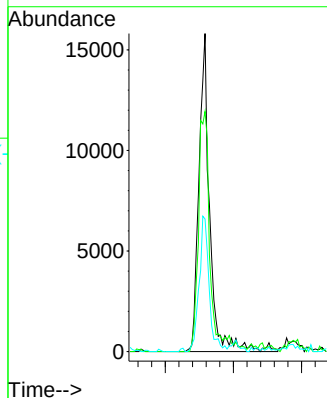
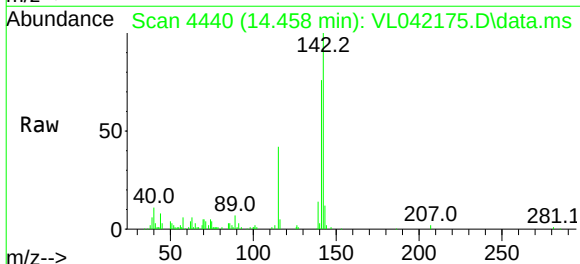
RT: 14.458 min Scan# 4440

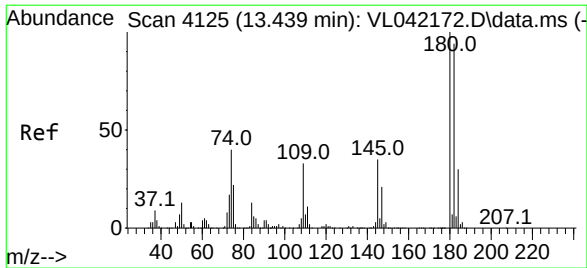
Delta R.T. 0.003 min

Lab File: VL042175.D

Acq: 27 Mar 2025 10:01

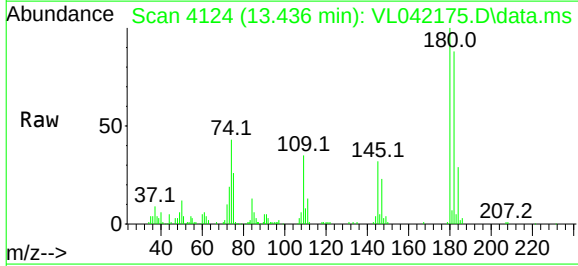
Tgt Ion:	142	Resp:	17486
Ion Ratio	Lower	Upper	
142	100		
141	83.3	66.3	99.5
115	43.5	31.6	47.4





#81
1,2,4-Trichlorobenzene
Concen: 0.457 ppbv
RT: 13.436 min Scan# 41
Delta R.T. -0.003 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

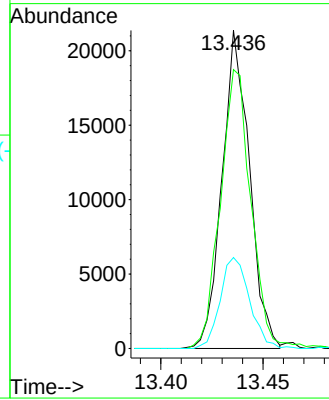
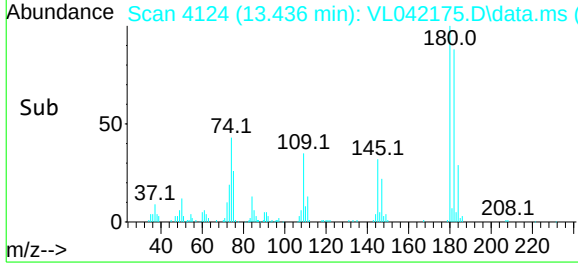
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5



Tgt Ion:180 Resp: 19924
Ion Ratio Lower Upper
180 100
182 97.9 75.1 112.7
184 31.1 24.4 36.6

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
 Data File : VL042176.D
 Acq On : 27 Mar 2025 10:32
 Operator : SY/MD
 Sample : VSTDICC0.1
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC0.1

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 03/31/2025
 Supervised By :Mahesh Dadoda 04/03/2025

Quant Time: Mar 28 01:35:34 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2
 QLast Update : Fri Mar 28 01:31:23 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.787	49	180740	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.955	114	528028	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.878	117	481506	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.374	95	398069	10.067	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	= 100.700%	
Target Compounds						
						Qvalue
5) Vinyl Chloride	1.580	62	1274	0.115	ppbv	# 42
32) 1,1,1-Trichloroethane	3.366	97	4509m	0.106	ppbv	
35) Carbon Tetrachloride	3.768	117	4131m	0.102	ppbv	
38) Trichloroethene	4.551	130	2306m	0.106	ppbv	
52) Tetrachloroethene	8.225	164	1895m	0.091	ppbv	
54) 1,2-Dibromoethane	7.652	107	3033m	0.108	ppbv	
63) 1,1,2,2-Tetrachloroethane	9.966	83	3852m	0.093	ppbv	
79) Naphthalene	13.513	128	7882	0.084	ppbv	# 92

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

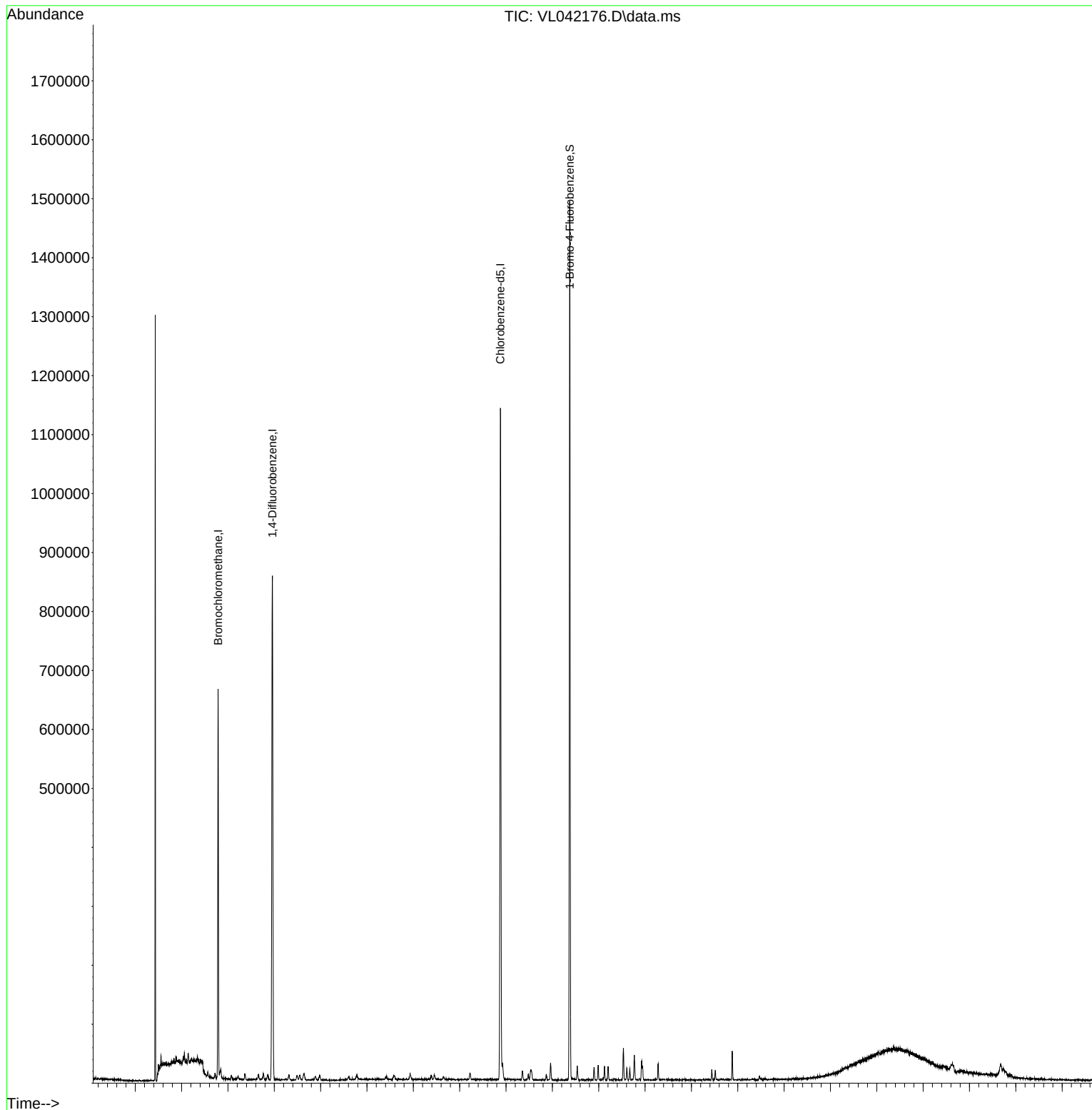
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
Data File : VL042176.D
Acq On : 27 Mar 2025 10:32
Operator : SY/MD
Sample : VSTDIC0.1
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

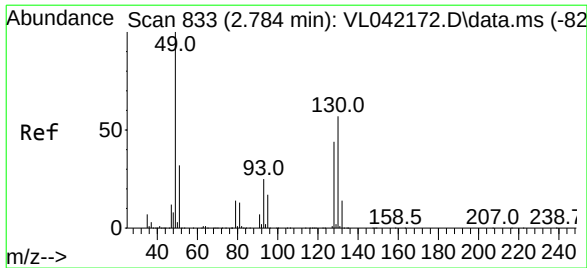
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.1

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025

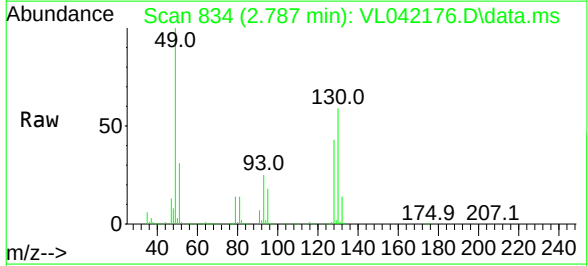
Quant Time: Mar 28 01:35:34 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Fri Mar 28 01:31:23 2025
Response via : Initial Calibration





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 833
Delta R.T. 0.003 min
Lab File: VL042176.D
Acq: 27 Mar 2025 10:32

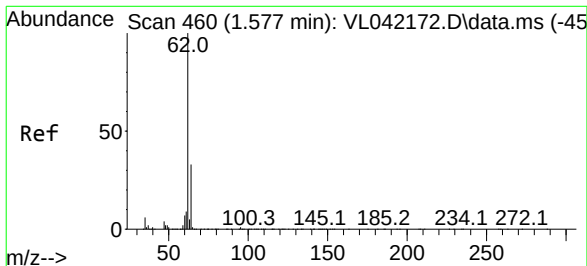
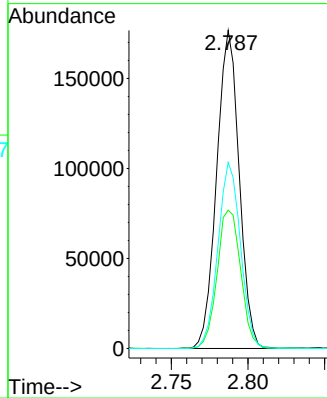
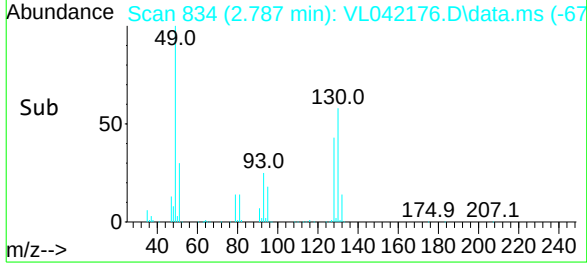
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.1



Tgt Ion: 49 Resp: 180740
Ion Ratio Lower Upper
49 100
128 45.6 22.9 68.5
130 58.5 28.8 86.4

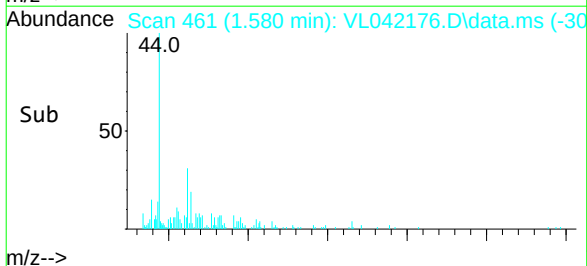
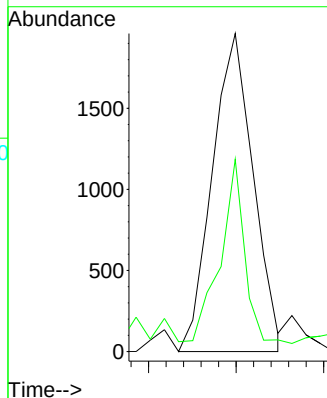
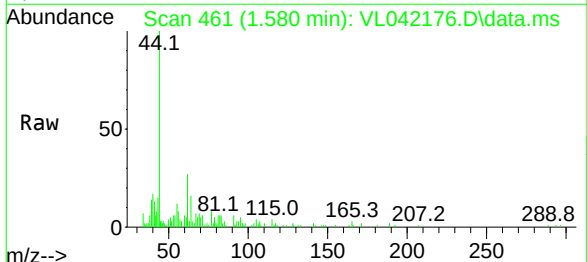
Manual Integrations
APPROVED

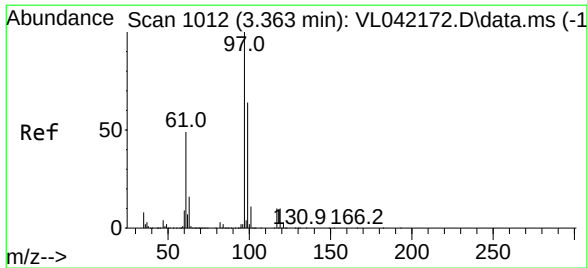
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#5
Vinyl Chloride
Concen: 0.115 ppbv
RT: 1.580 min Scan# 461
Delta R.T. 0.003 min
Lab File: VL042176.D
Acq: 27 Mar 2025 10:32

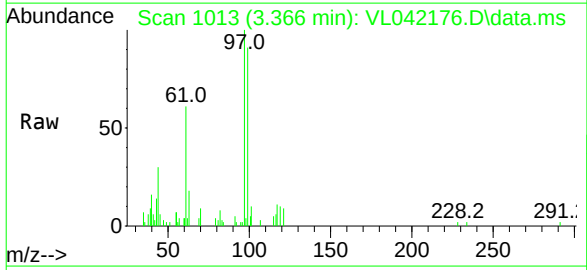
Tgt Ion: 62 Resp: 1274
Ion Ratio Lower Upper
62 100
64 66.4 26.6 40.0#





#32
1,1,1-Trichloroethane
Concen: 0.106 ppbv m
RT: 3.366 min Scan# 1012
Delta R.T. 0.003 min
Lab File: VL042176.D
Acq: 27 Mar 2025 10:32

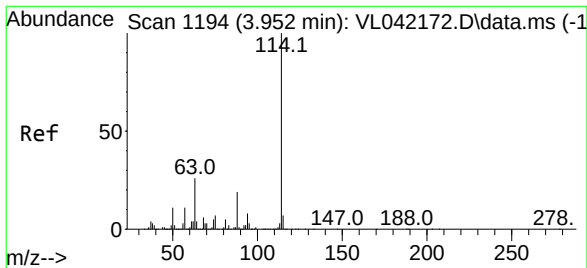
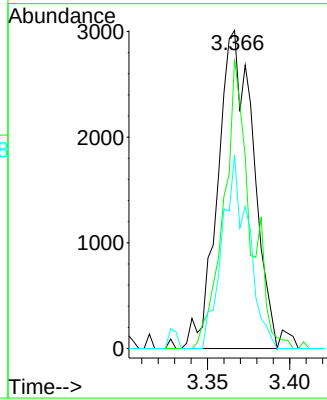
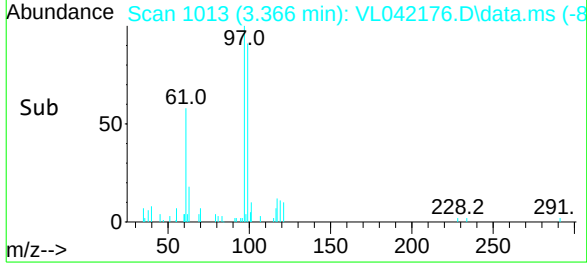
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1



Tgt Ion: 97 Resp: 4509
Ion Ratio Lower Upper
97 100
99 68.6 51.5 77.3
61 45.4 38.7 58.1

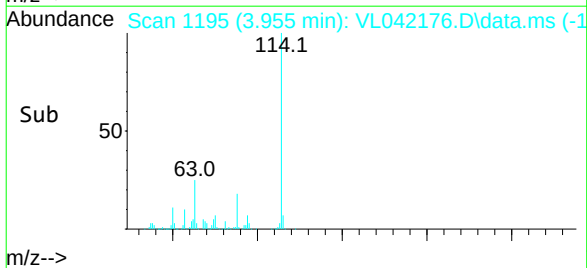
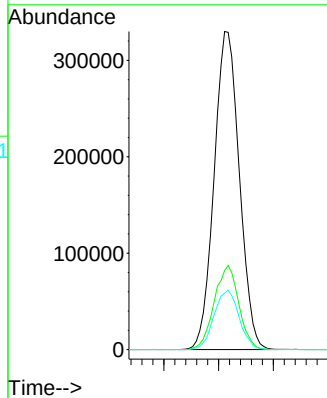
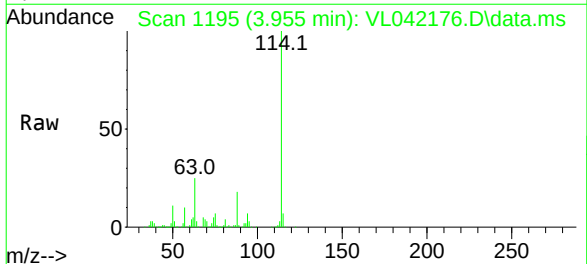
Manual Integrations
APPROVED

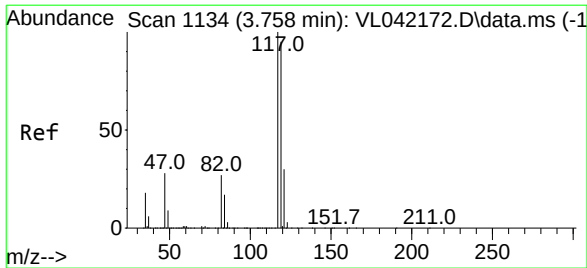
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.955 min Scan# 1195
Delta R.T. 0.003 min
Lab File: VL042176.D
Acq: 27 Mar 2025 10:32

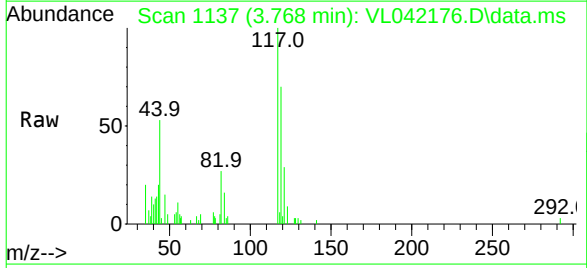
Tgt Ion:114 Resp: 528028
Ion Ratio Lower Upper
114 100
63 25.8 20.7 31.1
88 18.5 15.0 22.4





#35
Carbon Tetrachloride
Concen: 0.102 ppbv m
RT: 3.768 min Scan# 1134
Delta R.T. 0.010 min
Lab File: VL042176.D
Acq: 27 Mar 2025 10:32

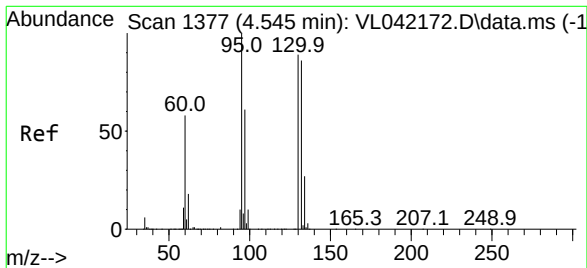
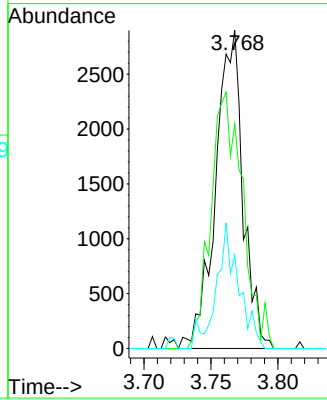
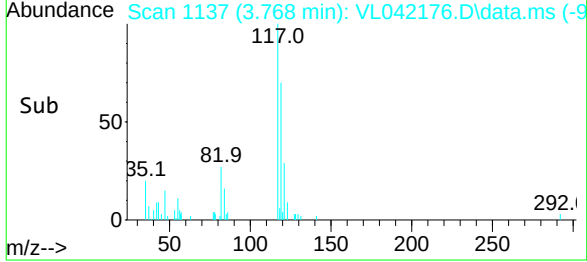
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1



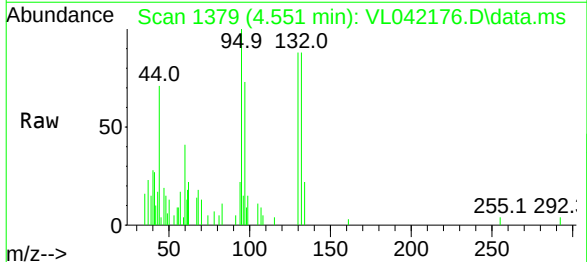
Tgt Ion:117 Resp: 4131
Ion Ratio Lower Upper
117 100
119 70.5 76.2 114.2#
121 29.4 24.2 36.4

Manual Integrations
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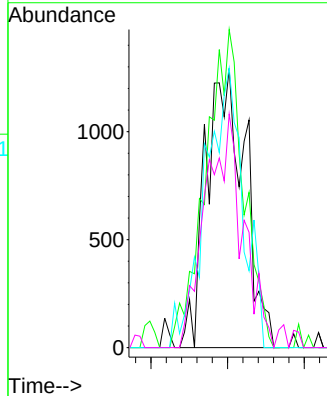
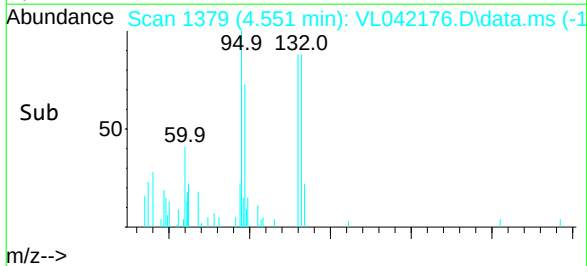
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025

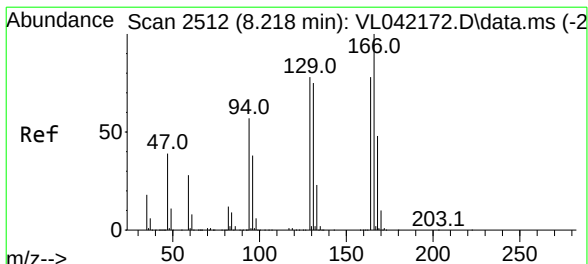


#38
Trichloroethene
Concen: 0.106 ppbv m
RT: 4.551 min Scan# 1379
Delta R.T. 0.006 min
Lab File: VL042176.D
Acq: 27 Mar 2025 10:32



Tgt Ion:130 Resp: 2306
Ion Ratio Lower Upper
130 100
95 114.0 89.8 134.8
132 100.2 77.4 116.2
97 83.7 55.1 82.7#





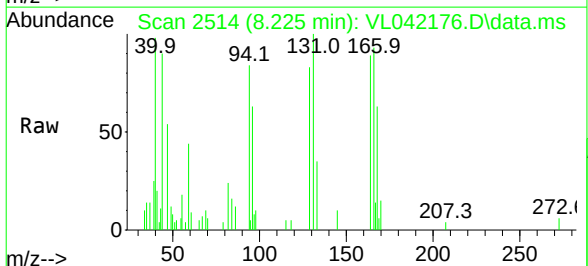
#52
 Tetrachloroethene
 Concen: 0.091 ppbv m
 RT: 8.225 min Scan# 2512
 Delta R.T. 0.006 min
 Lab File: VL042176.D
 Acq: 27 Mar 2025 10:32

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

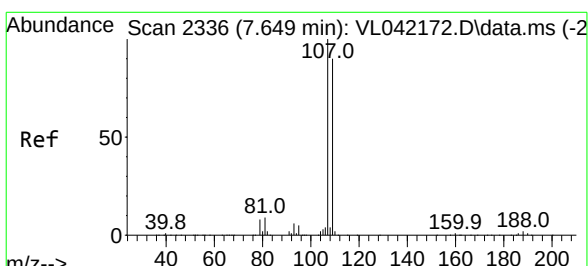
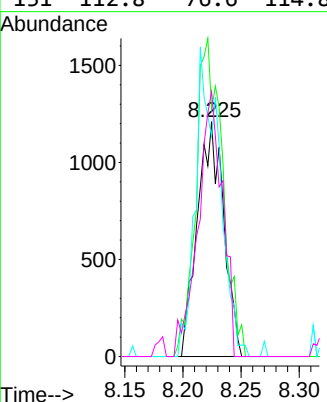
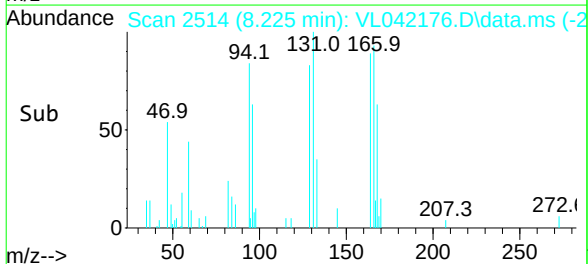


Tgt Ion:	164	Resp:	1895
Ion	Ratio	Lower	Upper
164	100		
166	105.1	102.5	153.7
129	93.7	79.8	119.8
131	112.8	76.6	114.8

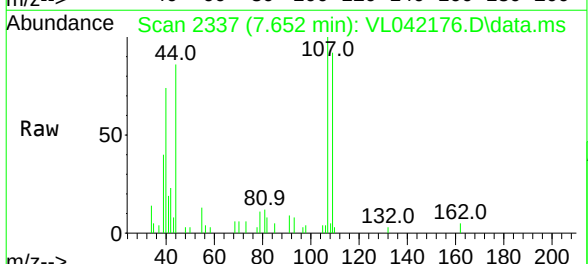
Manual Integrations

APPROVED

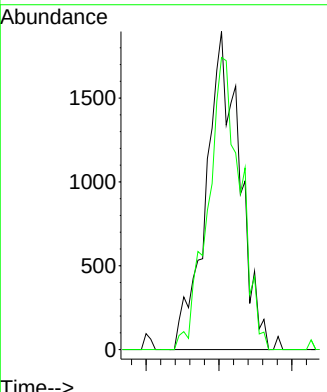
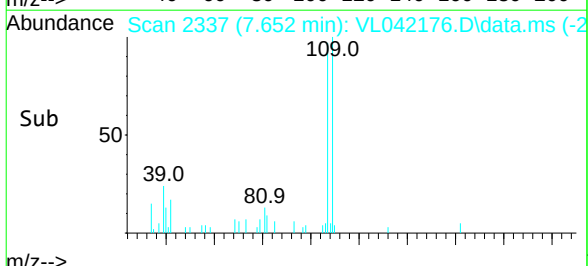
Reviewed By :Semsettin Yesilyurt 03/31/2025
 Supervised By :Mahesh Dadoda 04/03/2025

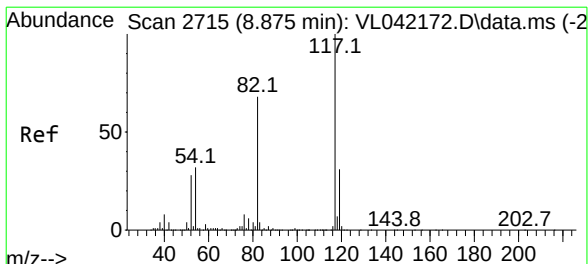


#54
 1,2-Dibromoethane
 Concen: 0.108 ppbv m
 RT: 7.652 min Scan# 2337
 Delta R.T. 0.003 min
 Lab File: VL042176.D
 Acq: 27 Mar 2025 10:32



Tgt Ion:	107	Resp:	3033
Ion	Ratio	Lower	Upper
107	100		
109	91.8	72.2	108.4





#55
 Chlorobenzene-d5
 Concen: 10.000 ppbv
 RT: 8.878 min Scan# 2715
 Delta R.T. 0.003 min
 Lab File: VL042176.D
 Acq: 27 Mar 2025 10:32

Instrument :

MSVOA_L

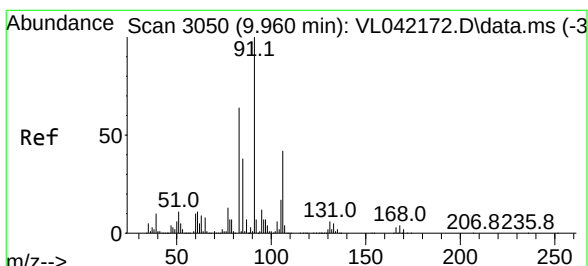
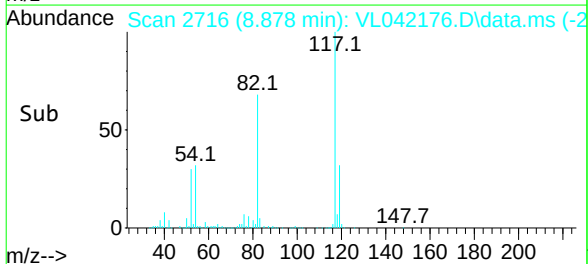
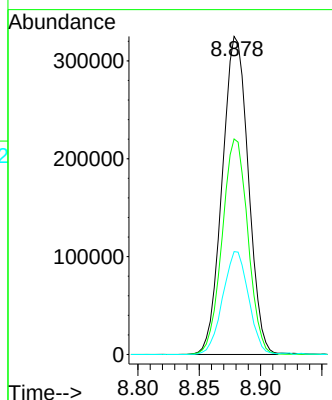
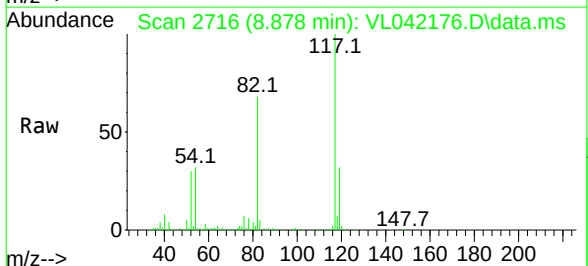
ClientSampleId :

VSTDIC0.1

Tgt Ion:	117	Resp:	481506
Ion	Ratio	Lower	Upper
117	100		
82	66.7	55.8	83.6
119	32.3	25.5	38.3

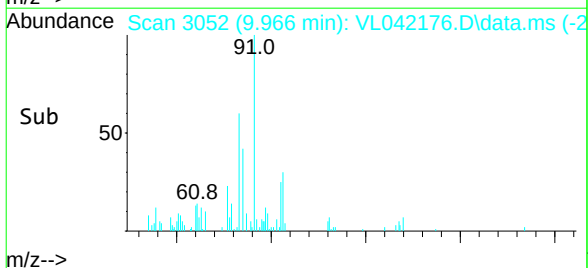
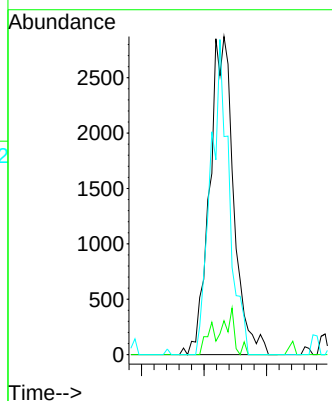
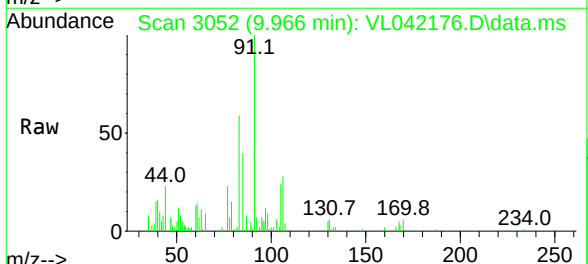
Manual Integrations
 APPROVED

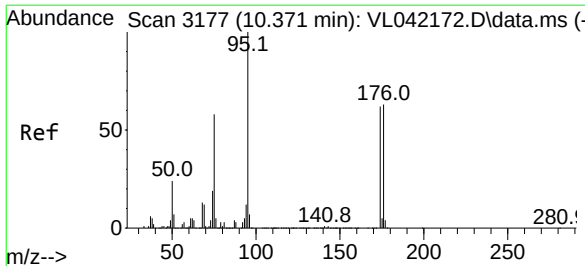
Reviewed By :Semsettin Yesilyurt 03/31/2025
 Supervised By :Mahesh Dadoda 04/03/2025



#63
 1,1,2,2-Tetrachloroethane
 Concen: 0.093 ppbv m
 RT: 9.966 min Scan# 3052
 Delta R.T. 0.006 min
 Lab File: VL042176.D
 Acq: 27 Mar 2025 10:32

Tgt Ion:	83	Resp:	3852
Ion	Ratio	Lower	Upper
83	100		
131	0.0	4.8	14.4#
85	0.0	32.5	97.5#





#68

1-Bromo-4-Fluorobenzene

Concen: 10.067 ppbv

RT: 10.374 min Scan# 3177

Delta R.T. 0.003 min

Lab File: VL042176.D

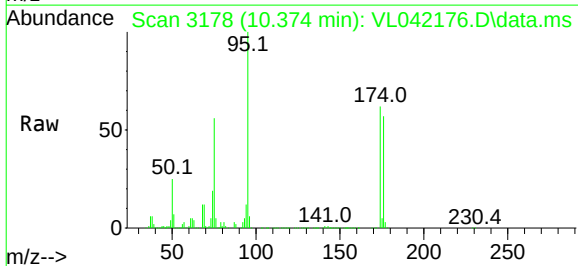
Acq: 27 Mar 2025 10:32

Instrument :

MSVOA_L

ClientSampleId :

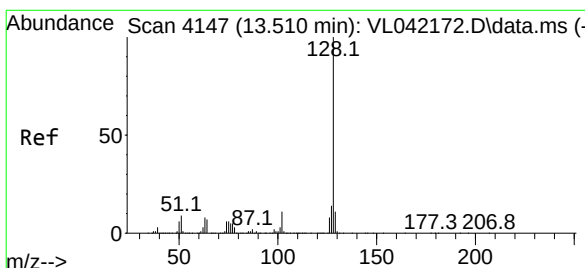
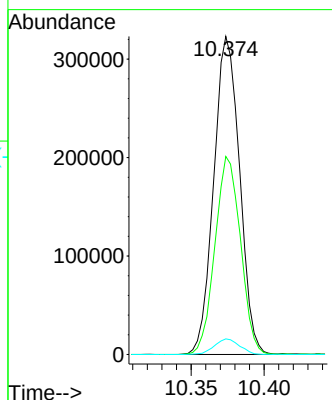
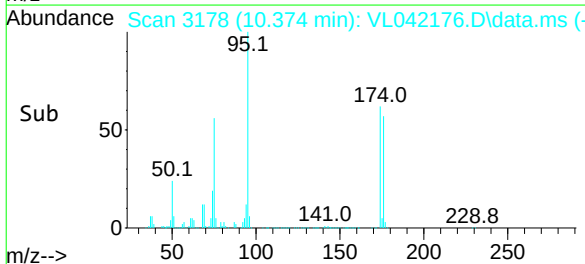
VSTDIC0.1



Tgt Ion:	95	Resp:	398069
Ion	Ratio	Lower	Upper
95	100		
174	61.5	50.6	76.0
175	4.8	3.8	5.6

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#79

Naphthalene

Concen: 0.084 ppbv

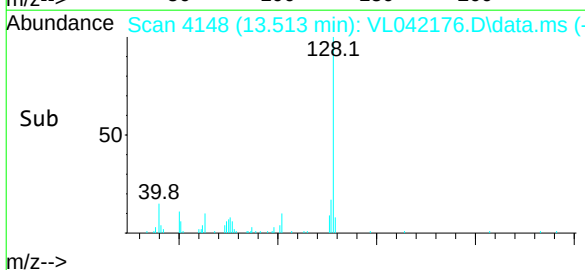
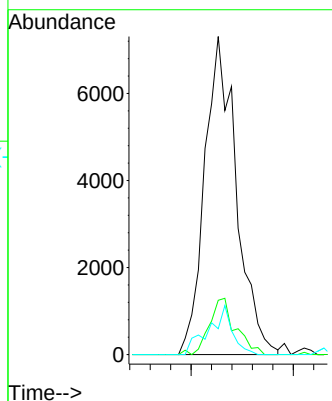
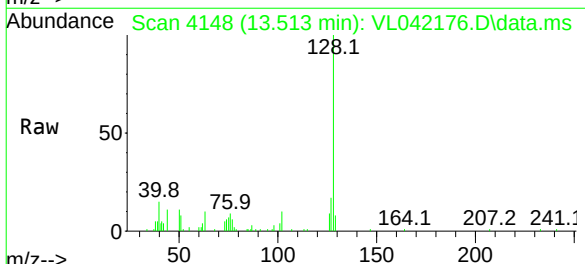
RT: 13.513 min Scan# 4148

Delta R.T. 0.003 min

Lab File: VL042176.D

Acq: 27 Mar 2025 10:32

Tgt Ion:	128	Resp:	7882
Ion	Ratio	Lower	Upper
128	100		
127	17.1	10.8	16.2#
129	8.1	9.0	13.4#



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
 Data File : VL042177.D
 Acq On : 27 Mar 2025 11:03
 Operator : SY/MD
 Sample : VSTDICC0.03
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC0.03

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 03/31/2025
 Supervised By : Mahesh Dadoda 04/03/2025

Quant Time: Mar 28 01:36:24 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 2
 QLast Update : Fri Mar 28 01:31:23 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.787	49	178058	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.955	114	512915	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.878	117	475617	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.374	95	389935	9.983	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.800%
Target Compounds						
					Qvalue	
5) Vinyl Chloride	1.580	62	471m	0.043	ppbv	
32) 1,1,1-Trichloroethane	3.366	97	1683m	0.040	ppbv	
35) Carbon Tetrachloride	3.758	117	1645m	0.042	ppbv	
38) Trichloroethene	4.541	130	712m	0.034	ppbv	
52) Tetrachloroethene	8.208	164	880m	0.044	ppbv	
63) 1,1,2,2-Tetrachloroethane	9.963	83	1407m	0.034	ppbv	

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

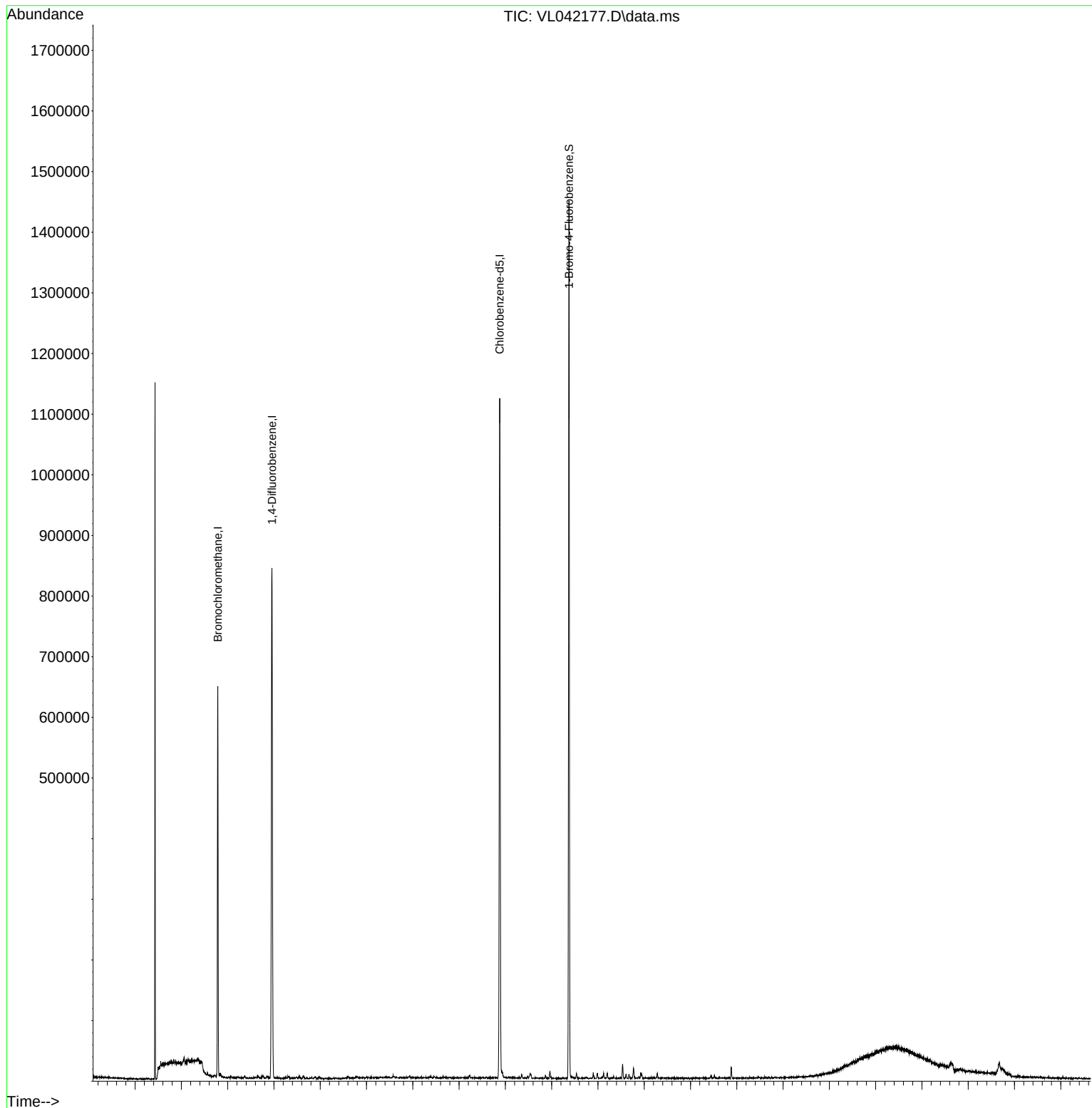
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
Data File : VL042177.D
Acq On : 27 Mar 2025 11:03
Operator : SY/MD
Sample : VSTDICC0.03
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

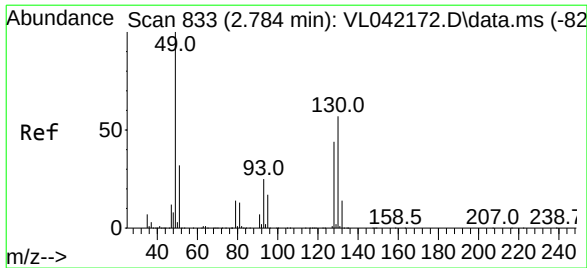
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025

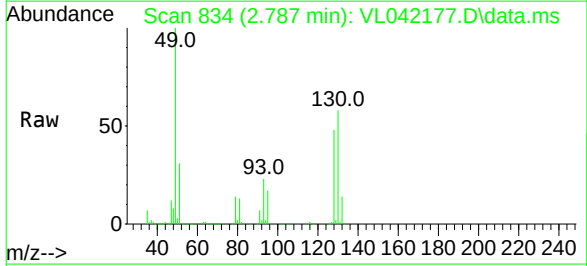
Quant Time: Mar 28 01:36:24 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Fri Mar 28 01:31:23 2025
Response via : Initial Calibration





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 83
Delta R.T. 0.003 min
Lab File: VL042177.D
Acq: 27 Mar 2025 11:03

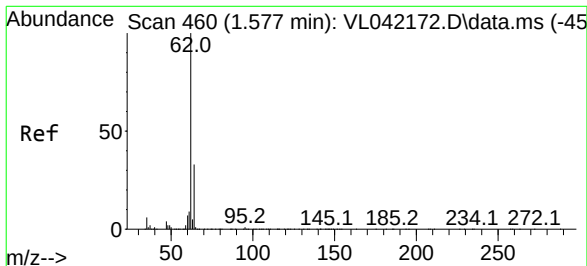
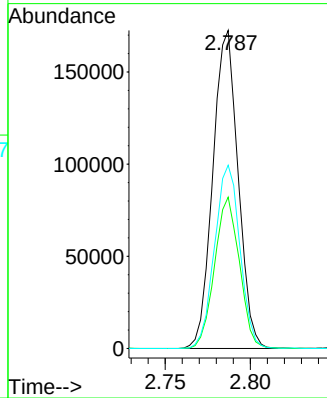
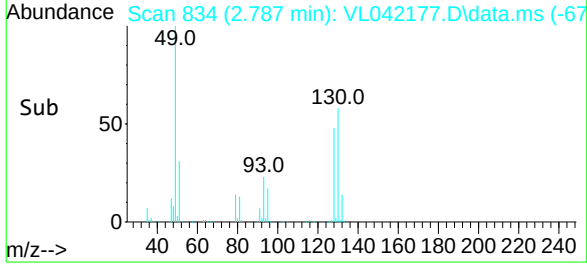
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03



Tgt Ion: 49 Resp: 178058
Ion Ratio Lower Upper
49 100
128 46.8 22.9 68.5
130 57.9 28.8 86.4

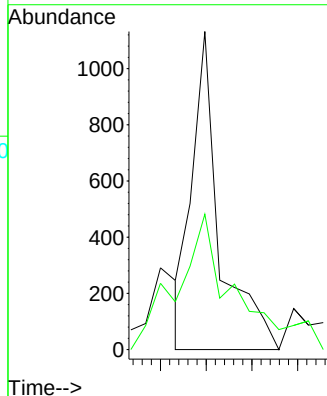
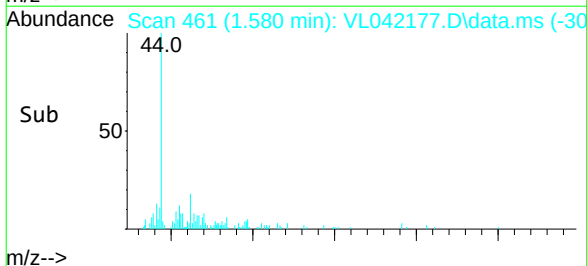
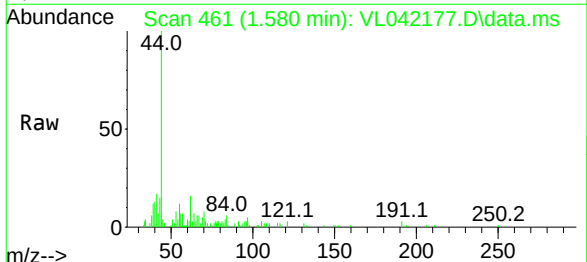
Manual Integrations
APPROVED

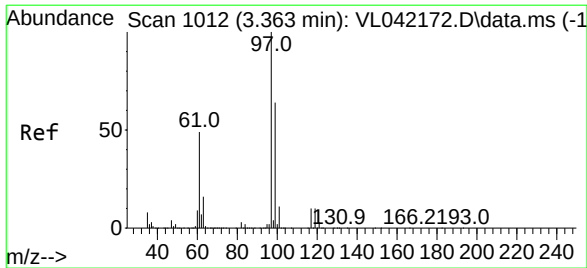
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#5
Vinyl Chloride
Concen: 0.043 ppbv m
RT: 1.580 min Scan# 461
Delta R.T. 0.003 min
Lab File: VL042177.D
Acq: 27 Mar 2025 11:03

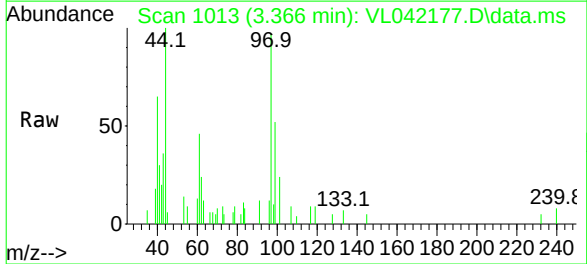
Tgt Ion: 62 Resp: 471
Ion Ratio Lower Upper
62 100
64 42.6 26.6 40.0#





#32
1,1,1-Trichloroethane
Concen: 0.040 ppbv m
RT: 3.366 min Scan# 1012
Delta R.T. 0.003 min
Lab File: VL042177.D
Acq: 27 Mar 2025 11:03

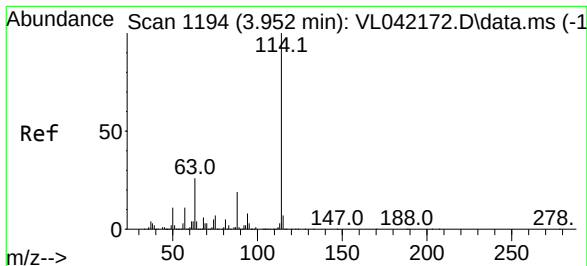
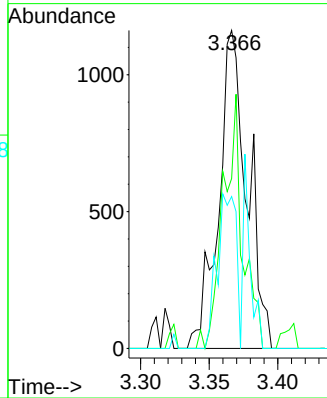
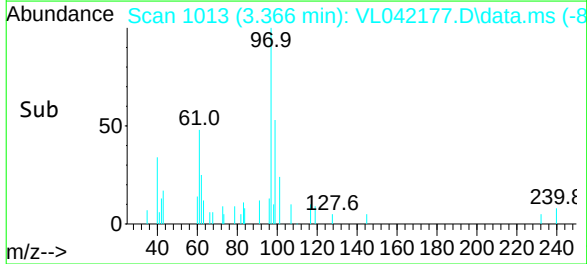
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03



Tgt Ion: 97 Resp: 1683
Ion Ratio Lower Upper
97 100
99 3.8 51.5 77.3#
61 2.1 38.7 58.1#

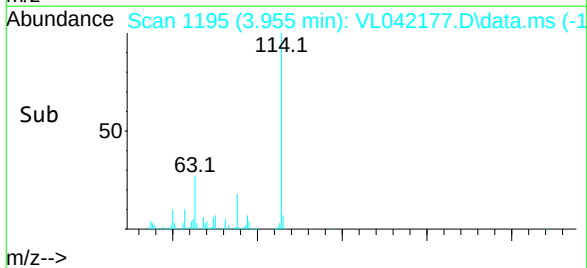
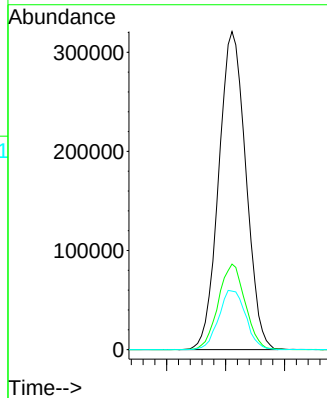
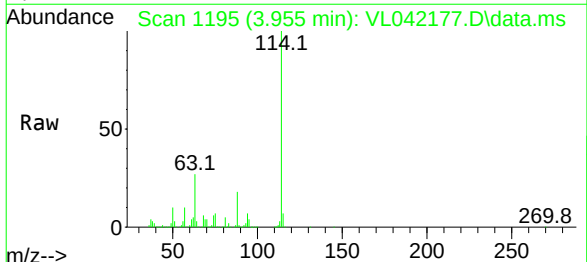
Manual Integrations
APPROVED

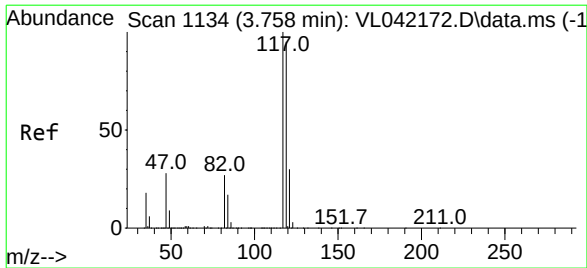
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.955 min Scan# 1195
Delta R.T. 0.003 min
Lab File: VL042177.D
Acq: 27 Mar 2025 11:03

Tgt Ion:114 Resp: 512915
Ion Ratio Lower Upper
114 100
63 26.6 20.7 31.1
88 18.6 15.0 22.4





#35

Carbon Tetrachloride

Concen: 0.042 ppbv m

RT: 3.758 min Scan# 11

Delta R.T. -0.000 min

Lab File: VL042177.D

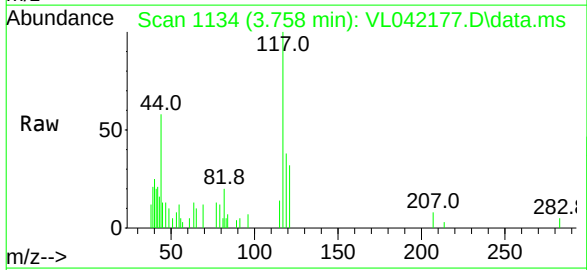
Acq: 27 Mar 2025 11:03

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC0.03

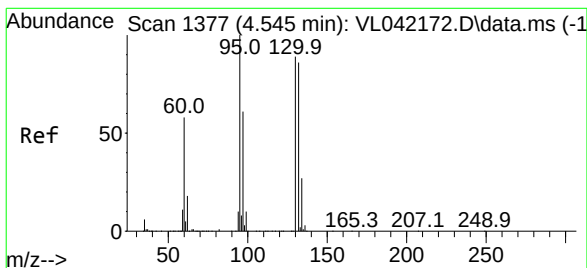
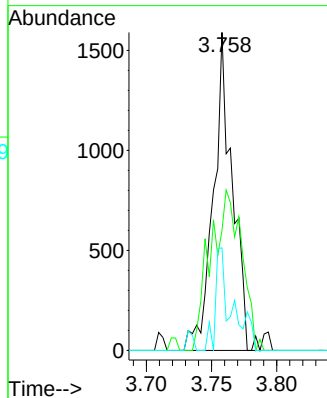
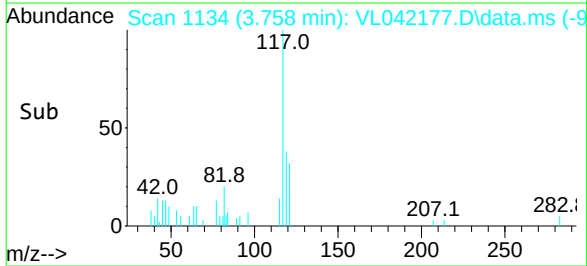


Tgt Ion:	117	Resp:	1645
Ion Ratio	Lower	Upper	
117	100		
119	37.7	76.2	114.2#
121	32.3	24.2	36.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#38

Trichloroethene

Concen: 0.034 ppbv m

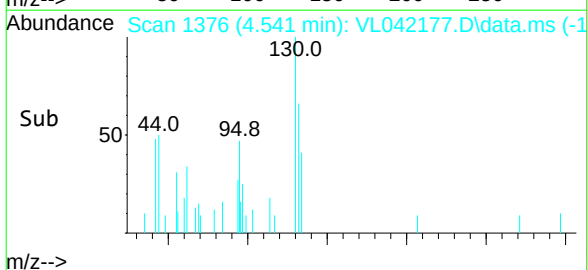
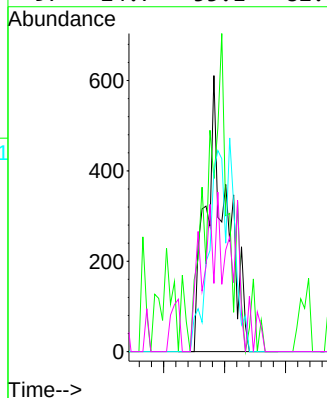
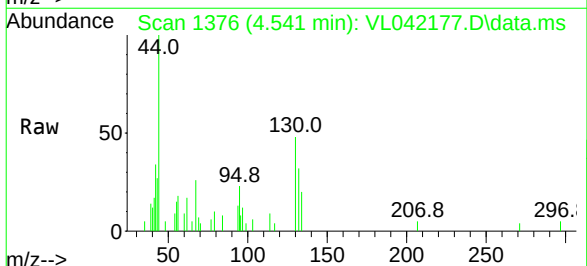
RT: 4.541 min Scan# 1376

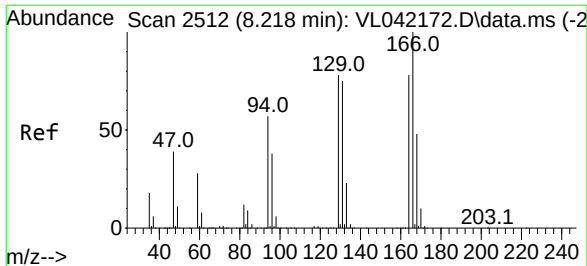
Delta R.T. -0.003 min

Lab File: VL042177.D

Acq: 27 Mar 2025 11:03

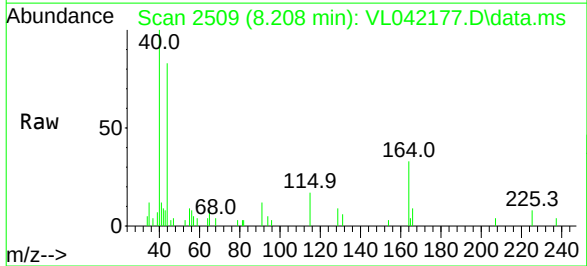
Tgt Ion:	130	Resp:	712
Ion Ratio	Lower	Upper	
130	100		
95	47.0	89.8	134.8#
132	65.6	77.4	116.2#
97	24.7	55.1	82.7#





#52
Tetrachloroethene
Concen: 0.044 ppbv m
RT: 8.208 min Scan# 2512
Delta R.T. -0.010 min
Lab File: VL042177.D
Acq: 27 Mar 2025 11:03

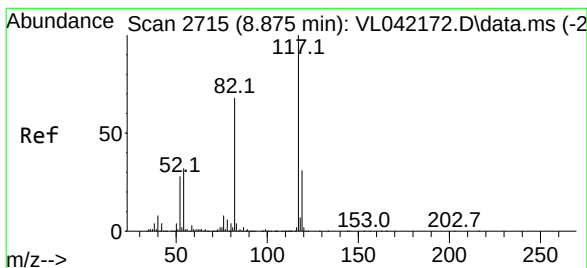
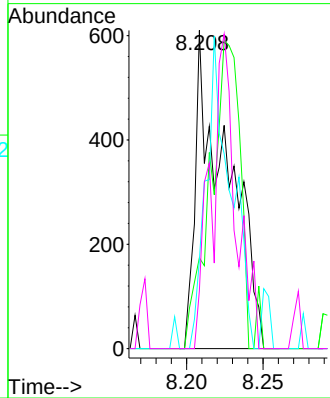
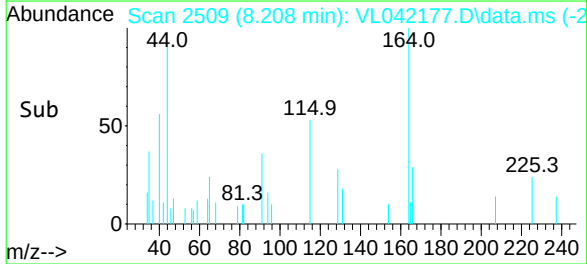
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03



Tgt Ion	Ratio	Lower	Upper
164	100		
166	28.5	102.5	153.7#
129	27.7	79.8	119.8#
131	18.2	76.6	114.8#

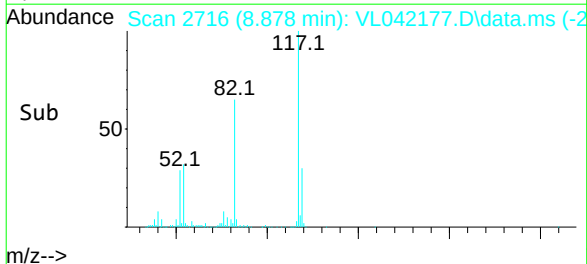
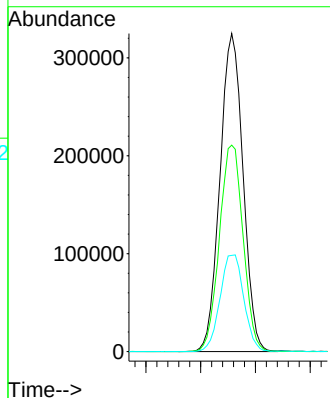
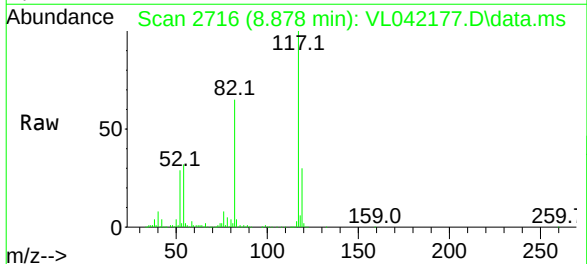
Manual Integrations
APPROVED

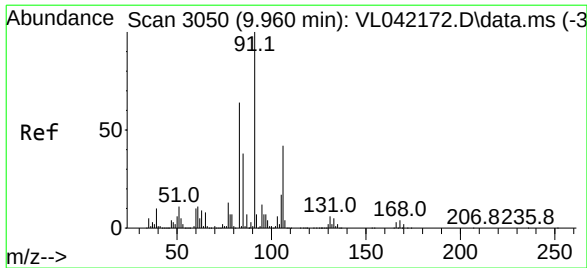
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.878 min Scan# 2716
Delta R.T. 0.003 min
Lab File: VL042177.D
Acq: 27 Mar 2025 11:03

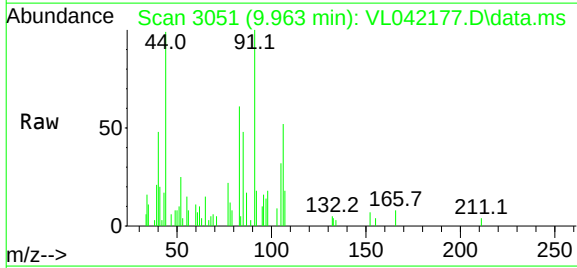
Tgt Ion	Ratio	Lower	Upper
117	100		
82	66.7	55.8	83.6
119	31.5	25.5	38.3





#63
1,1,2,2-Tetrachloroethane
Concen: 0.034 ppbv m
RT: 9.963 min Scan# 3050
Delta R.T. 0.003 min
Lab File: VL042177.D
Acq: 27 Mar 2025 11:03

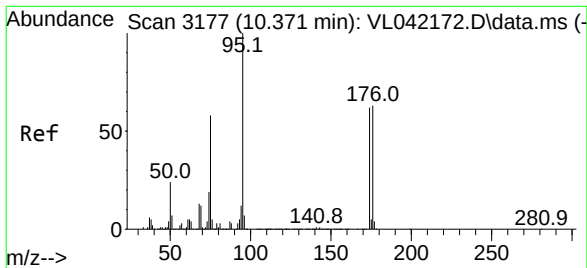
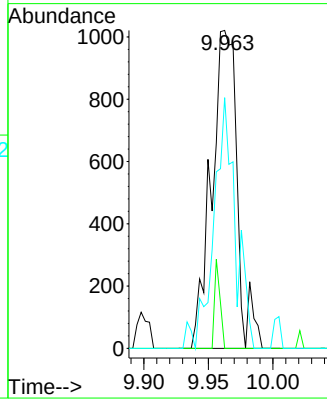
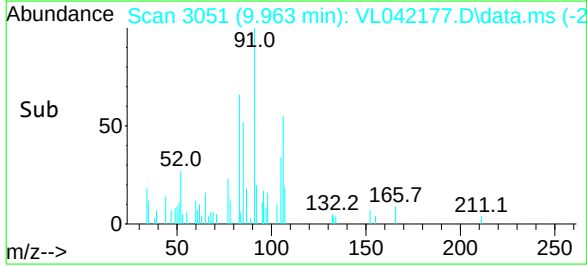
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03



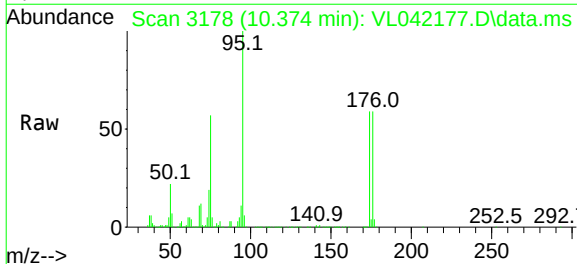
Tgt Ion	Ratio	Lower	Upper
83	100		
131	6.0	4.8	14.4
85	67.2	32.5	97.5

Manual Integrations
APPROVED

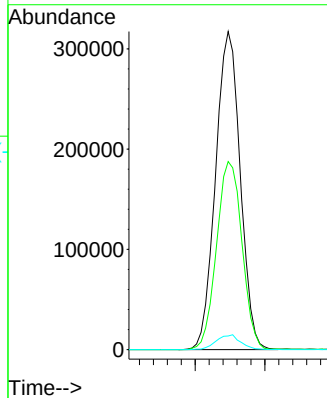
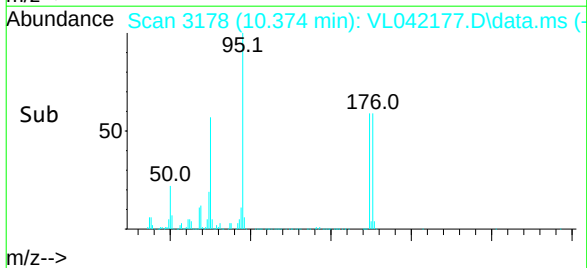
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#68
1-Bromo-4-Fluorobenzene
Concen: 9.983 ppbv
RT: 10.374 min Scan# 3178
Delta R.T. 0.003 min
Lab File: VL042177.D
Acq: 27 Mar 2025 11:03



Tgt Ion	Ratio	Lower	Upper
95	100		
174	61.2	50.6	76.0
175	4.6	3.8	5.6



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
 Data File : VL042178.D
 Acq On : 27 Mar 2025 11:36
 Operator : SY/MD
 Sample : VSTDICC015
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC015

Manual Integrations
 APPROVED

Quant Time: Mar 28 01:37:01 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M

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

QLast Update : Fri Mar 28 01:31:23 2025

Response via : Initial Calibration

Reviewed By : Semsettin Yesilyurt 03/31/2025
 Supervised By : Mahesh Dadoda 04/03/2025

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

Internal Standards						
1) Bromochloromethane	2.784	49	173372	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.952	114	499360	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.878	117	473077	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	10.374	95	387777	9.981	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.800%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.495	85	358962	14.023	ppbv	99
3) Chlorodifluoromethane	1.473	51	366164	14.002	ppbv	98
4) Chloromethane	1.531	50	148133	14.160	ppbv	98
5) Vinyl Chloride	1.576	62	141938	13.304	ppbv	97
6) Bromomethane	1.667	94	65113	13.734	ppbv	99
7) Chloroethane	1.703	64	58820	14.007	ppbv	99
8) Dichlorotetrafluoroethane	1.550	85	314834	14.442	ppbv	98
9) Propene	1.482	41	163799	13.902	ppbv	95
10) Heptane	4.972	43	446949	14.019	ppbv	99
11) Trichlorofluoromethane	1.874	101	349967	14.050	ppbv	98
12) 1,1,2-Trichlorotrifluo...	2.136	101	295217	14.419	ppbv	99
13) Ethanol	1.719	45	7382	8.001	ppbv	92
14) Bromoethene	1.780	108	106436	13.571	ppbv	98
15) Acetone	1.832	43	296254	12.218	ppbv	98
16) 1,3-Butadiene	1.605	39	150122	13.766	ppbv	100
17) tert-Butyl alcohol	2.039	59	416362	13.787	ppbv	99
18) 1,1-Dichloroethene	2.029	96	131720	13.762	ppbv	99
19) Isopropyl Alcohol	1.884	45	179117	13.093	ppbv	100
20) Methylene Chloride	2.059	84	113183	12.533	ppbv	95
21) Allyl Chloride	2.094	41	239440	14.002	ppbv	99
22) trans-1,2-Dichloroethene	2.337	96	149455	13.362	ppbv	98
23) Vinyl Acetate	2.460	43	138419	13.736	ppbv #	96
24) 1,1-Dichloroethane	2.405	63	298760	14.570	ppbv	99
25) Ethyl Acetate	2.832	43	871882	13.855	ppbv	100
26) Hexane	2.822	57	344636	14.178	ppbv	98
27) Carbon Disulfide	2.146	76	370022	14.196	ppbv	97
28) Methyl tert-Butyl Ether	2.437	73	216463	14.303	ppbv	95
29) Chloroform	2.845	83	508614	14.297	ppbv	100
30) Cyclohexane	3.852	84	296458	14.040	ppbv	99
31) cis-1,2-Dichloroethene	2.719	61	351945	14.262	ppbv	97
32) 1,1,1-Trichloroethane	3.363	97	547329	13.448	ppbv	99
34) 2-Butanone	2.554	43	497020	13.726	ppbv	99
35) Carbon Tetrachloride	3.758	117	543385	14.140	ppbv	100
36) Benzene	3.651	78	699549	14.131	ppbv	98
37) 1,2-Dichloroethane	3.214	62	416544	14.697	ppbv	99
38) Trichloroethene	4.541	130	283430	13.715	ppbv	98
39) 1,2-Dichloropropane	4.308	63	257891	14.304	ppbv	99
40) 1,4-Dioxane	4.577	88	124925	13.354	ppbv #	91
41) Tetrahydrofuran	3.049	42	294634	14.301	ppbv	100
42) Bromodichloromethane	4.483	83	587772	15.043	ppbv	99
43) Methyl Methacrylate	4.874	69	295300	14.130	ppbv	99
44) 2,2,4-Trimethylpentane	4.635	57	1180275	14.108	ppbv	99
45) t-1,3-Dichloropropene	6.405	75	329360	14.649	ppbv	96

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
 Data File : VL042178.D
 Acq On : 27 Mar 2025 11:36
 Operator : SY/MD
 Sample : VSTDICC015
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC015

Manual Integrations
 APPROVED

Quant Time: Mar 28 01:37:01 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M

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

QLast Update : Fri Mar 28 01:31:23 2025

Response via : Initial Calibration

Reviewed By : Semsettin Yesilyurt 03/31/2025
 Supervised By : Mahesh Dadoda 04/03/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.593	75	400813	14.542	ppbv	98
47) 1,1,2-Trichloroethane	6.577	97	273137	14.331	ppbv	98
48) Dibromochloromethane	7.383	129	482431	14.936	ppbv	100
49) Bromoform	9.480	173	427143	14.730	ppbv	99
50) 4-Methyl-2-Pentanone	5.745	43	755146	13.155	ppbv	99
51) 2-Hexanone	7.431	43	619419	13.005	ppbv #	99
52) Tetrachloroethene	8.221	164	258356	13.159	ppbv	95
53) Toluene	6.926	91	829648	14.137	ppbv	100
54) 1,2-Dibromoethane	7.645	107	381823	14.359	ppbv	97
56) 1,1,1,2-Tetrachloroethane	8.920	131	365410	14.032	ppbv	99
57) Chlorobenzene	8.917	112	618201	13.777	ppbv	100
58) Ethyl Benzene	9.351	91	1167096	13.889	ppbv	97
59) m/p-Xylene	9.548	91	1857561m	27.651	ppbv	
60) o-Xylene	9.962	91	913234	13.577	ppbv	99
61) Styrene	9.865	104	474195	14.250	ppbv	99
62) Isopropylbenzene	10.535	105	1362416	13.544	ppbv	99
63) 1,1,2,2-Tetrachloroethane	9.959	83	551386	13.491	ppbv	99
64) n-propylbenzene	10.985	120	356118	13.753	ppbv	94
65) tert-Butylbenzene	11.529	119	1200149	12.901	ppbv	98
66) Benzyl Chloride	11.613	91	134397	13.615	ppbv	100
67) sec-Butylbenzene	11.765	105	1643629	12.711	ppbv	99
69) p-Isopropyltoluene	11.924	119	1437016	12.906	ppbv	98
70) n-Butylbenzene	12.280	91	1477443	12.975	ppbv	99
71) 2-Chlorotoluene	10.898	91	1071432	13.724	ppbv	99
72) 4-Ethyltoluene	11.121	105	1136415	13.569	ppbv	99
73) 1,3,5-Trimethylbenzene	11.202	105	979783	13.395	ppbv	99
74) 1,2,4-Trimethylbenzene	11.535	105	1048874	12.447	ppbv	92
75) 1,3-Dichlorobenzene	11.607	146	626015	13.545	ppbv	99
76) 1,4-Dichlorobenzene	11.668	146	628694	13.668	ppbv	100
77) 1,2-Dichlorobenzene	11.947	146	602844	13.396	ppbv	100
78) Hexachloro-1,3-Butadiene	13.882	225	556392	12.147	ppbv	99
79) Naphthalene	13.513	128	1258479	13.653	ppbv	98
80) Naphthalene,2-methyl-	14.455	142	718900	16.018	ppbv	98
81) 1,2,4-Trichlorobenzene	13.439	180	598416	14.075	ppbv	99

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

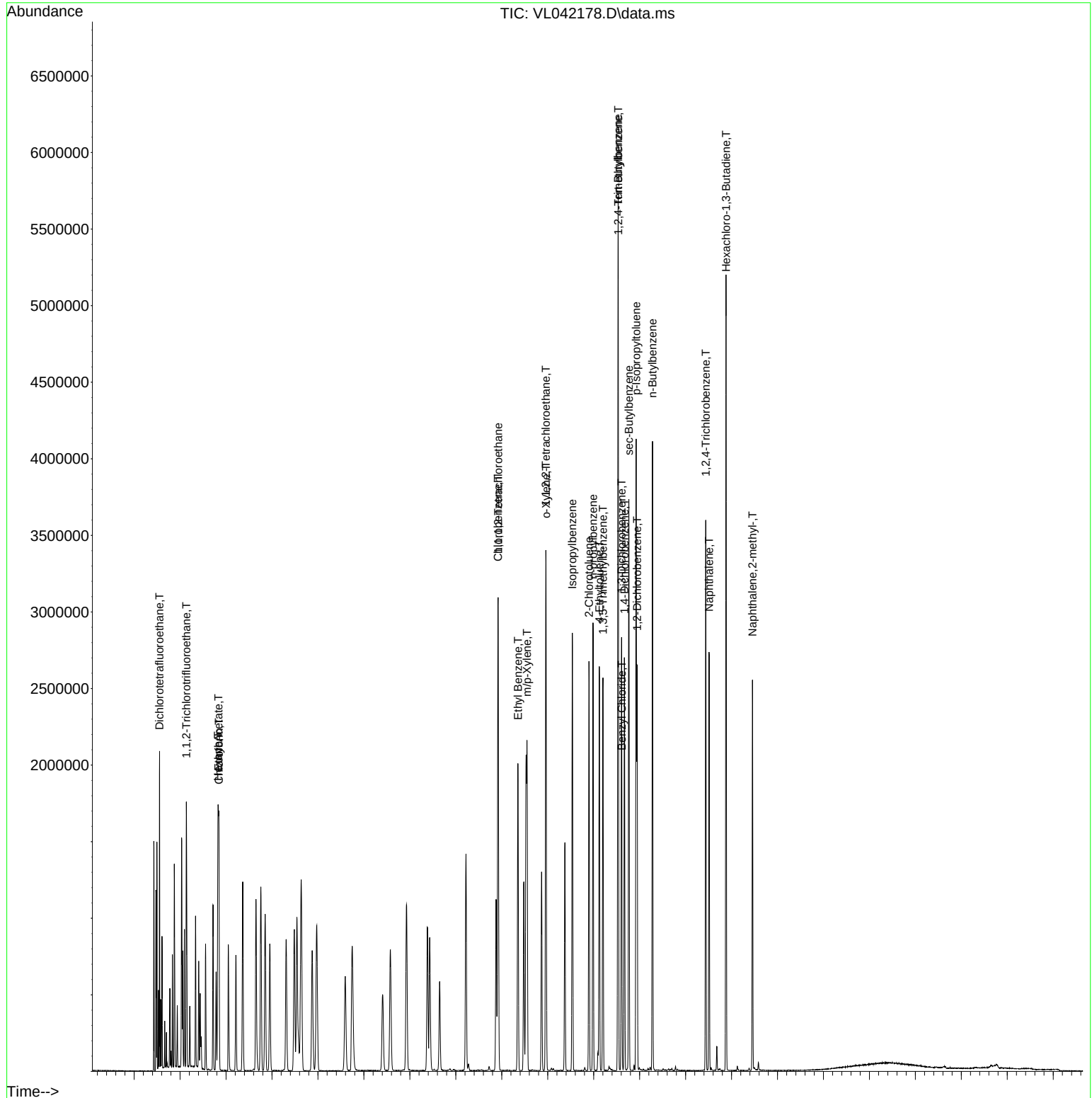
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Data File : VL042178.D
Acq On : 27 Mar 2025 11:36
Operator : SY/MD
Sample : VSTDIC015
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

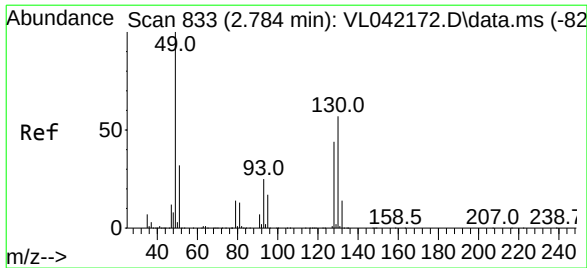
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025

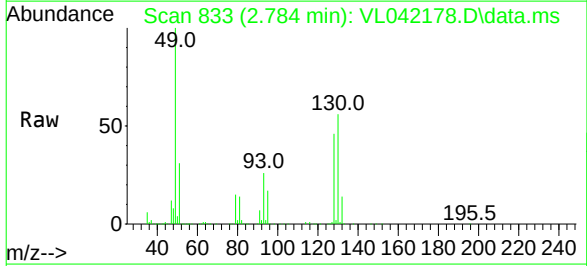
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Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Fri Mar 28 01:31:23 2025
Response via : Initial Calibration





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 833
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

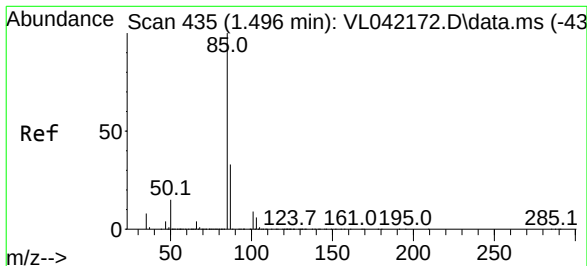
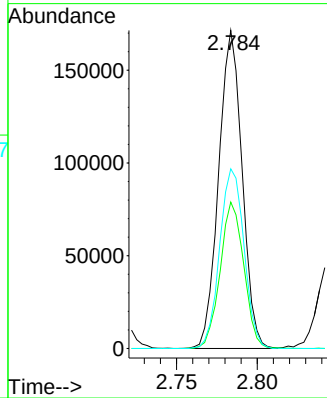
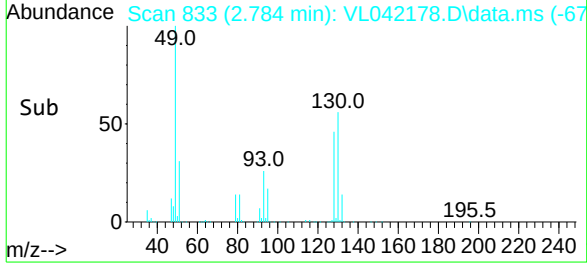
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015



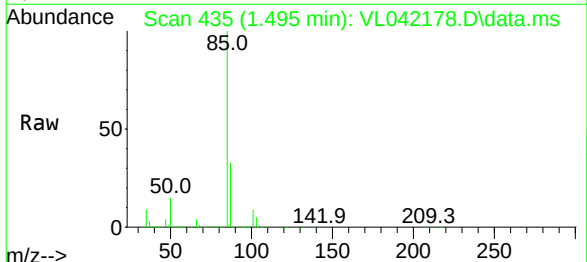
Tgt Ion: 49 Resp: 173372
Ion Ratio Lower Upper
49 100
128 46.4 22.9 68.5
130 58.7 28.8 86.4

Manual Integrations
APPROVED

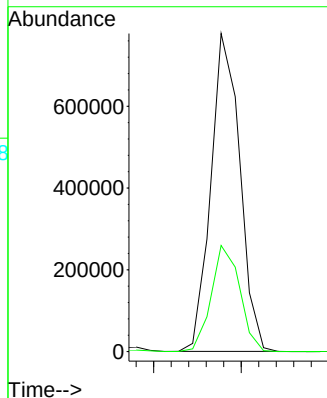
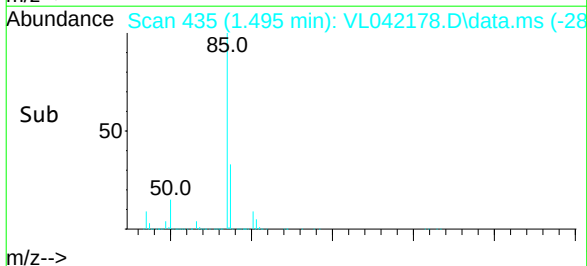
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025

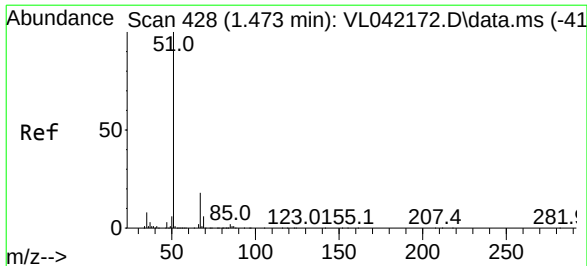


#2
Dichlorodifluoromethane
Concen: 14.023 ppbv
RT: 1.495 min Scan# 435
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36



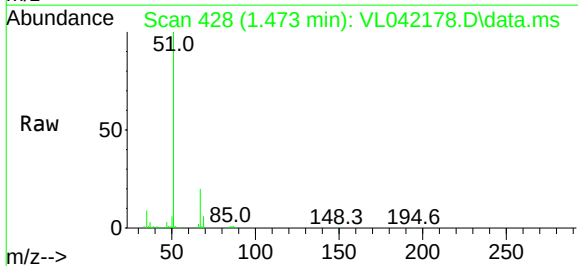
Tgt Ion: 85 Resp: 358962
Ion Ratio Lower Upper
85 100
87 33.4 26.1 39.1





#3
Chlorodifluoromethane
Concen: 14.002 ppbv
RT: 1.473 min Scan# 428
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

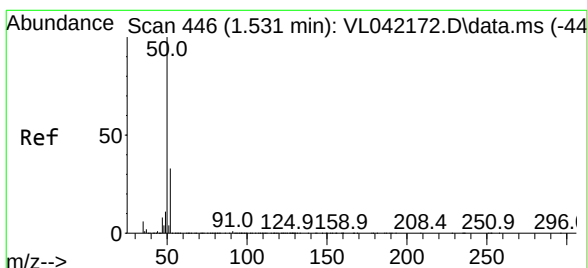
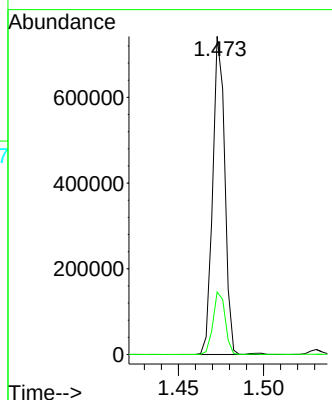
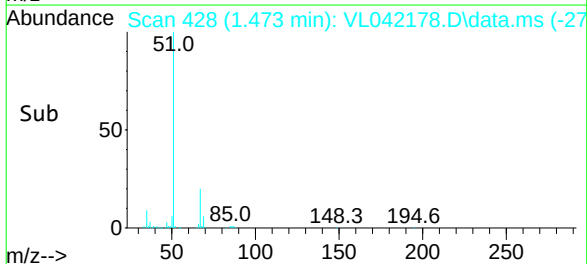
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015



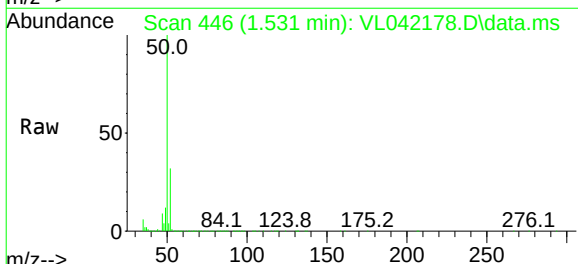
Tgt Ion: 51 Resp: 366164
Ion Ratio Lower Upper
51 100
67 19.8 15.0 22.6

Manual Integrations
APPROVED

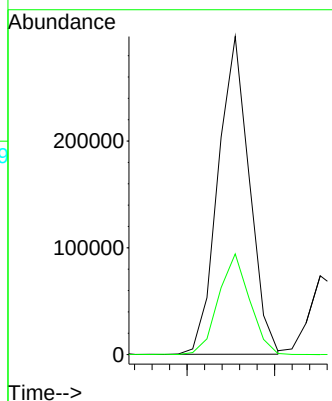
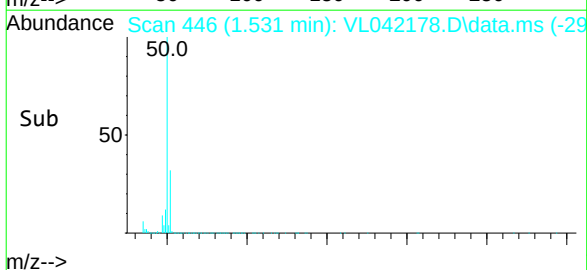
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025

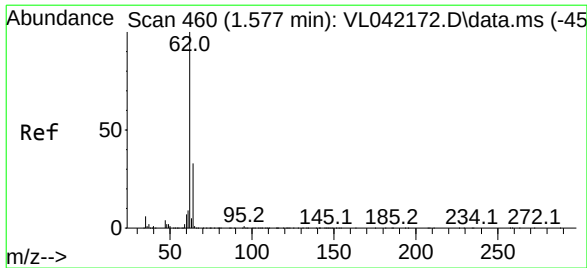


#4
Chloromethane
Concen: 14.160 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36



Tgt Ion: 50 Resp: 148133
Ion Ratio Lower Upper
50 100
52 31.6 26.1 39.1





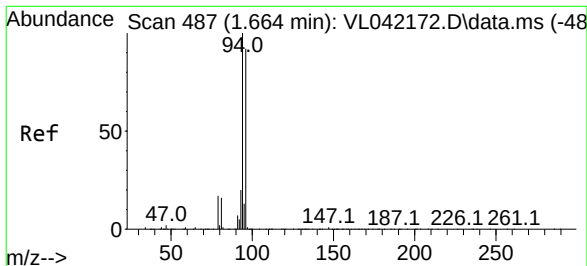
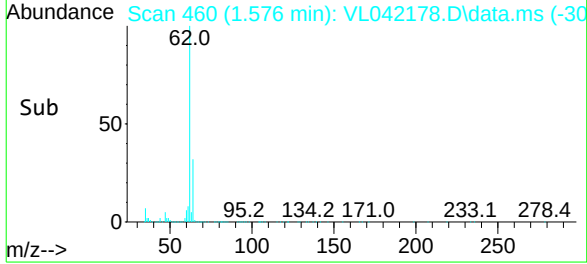
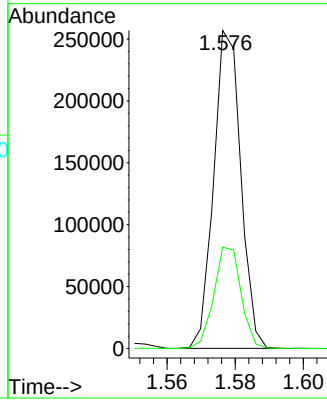
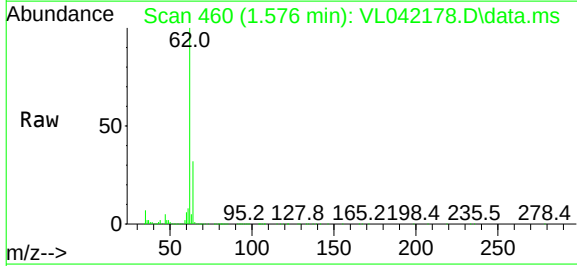
#5
 Vinyl Chloride
 Concen: 13.304 ppbv
 RT: 1.576 min Scan# 460
 Delta R.T. -0.000 min
 Lab File: VL042178.D
 Acq: 27 Mar 2025 11:36

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC015

Tgt Ion: 62 Resp: 141938
 Ion Ratio Lower Upper
 62 100
 64 31.9 26.6 40.0

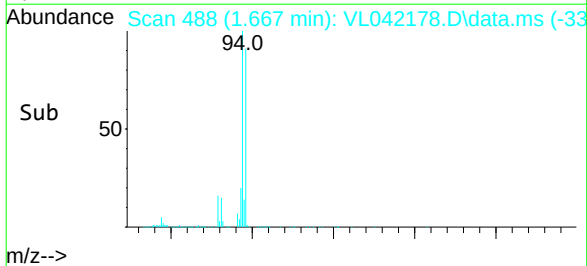
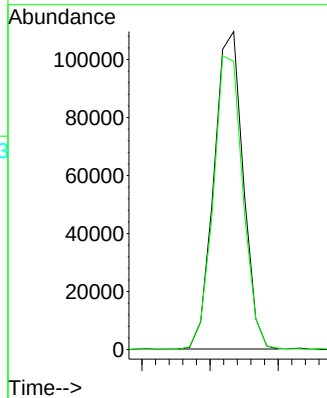
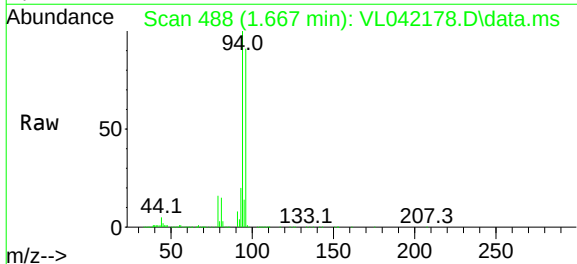
Manual Integrations
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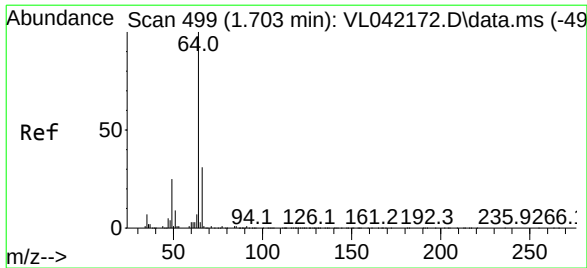
Reviewed By :Semsettin Yesilyurt 03/31/2025
 Supervised By :Mahesh Dadoda 04/03/2025



#6
 Bromomethane
 Concen: 13.734 ppbv
 RT: 1.667 min Scan# 488
 Delta R.T. 0.003 min
 Lab File: VL042178.D
 Acq: 27 Mar 2025 11:36

Tgt Ion: 94 Resp: 65113
 Ion Ratio Lower Upper
 94 100
 96 90.7 73.1 109.7





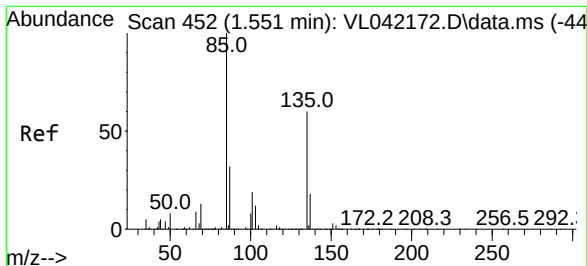
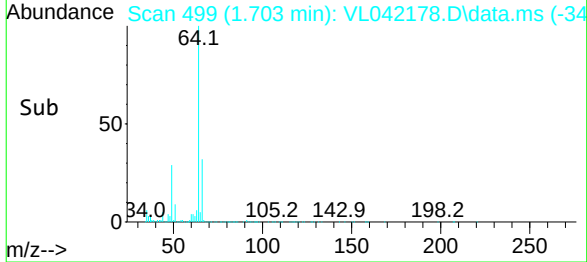
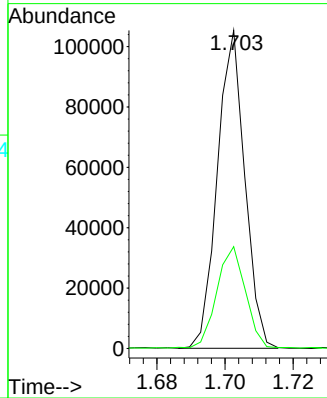
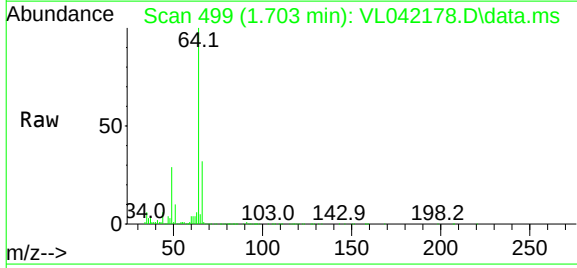
#7
Chloroethane
Concen: 14.007 ppbv
RT: 1.703 min Scan# 499
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion: 64 Resp: 58820
Ion Ratio Lower Upper
64 100
66 32.0 25.2 37.8

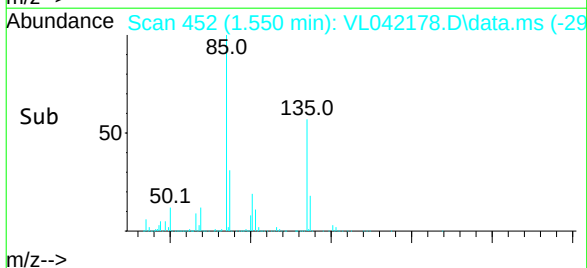
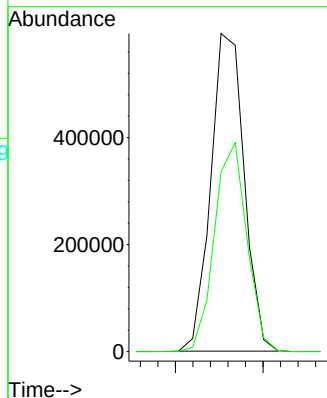
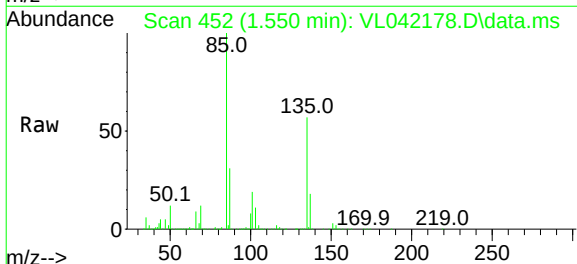
Manual Integrations
APPROVED

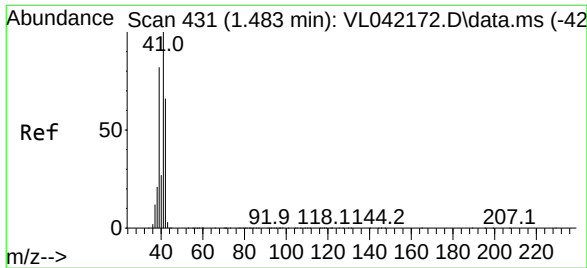
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#8
Dichlorotetrafluoroethane
Concen: 14.442 ppbv
RT: 1.550 min Scan# 452
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

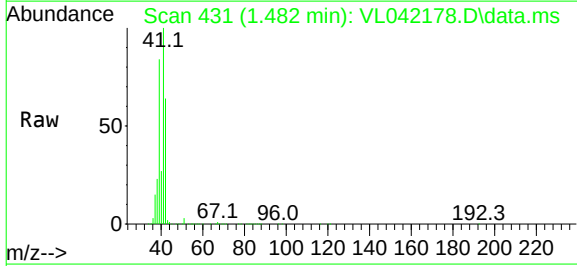
Tgt Ion: 85 Resp: 314834
Ion Ratio Lower Upper
85 100
135 63.8 52.4 78.6





#9
Propene
Concen: 13.902 ppbv
RT: 1.482 min Scan# 431
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

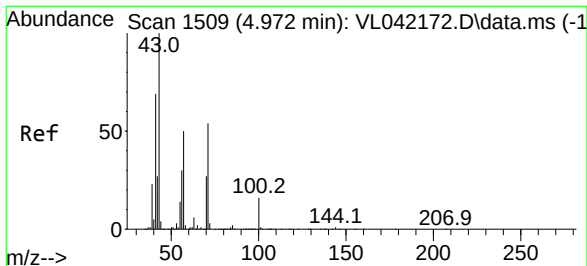
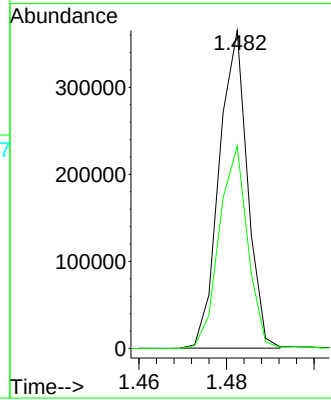
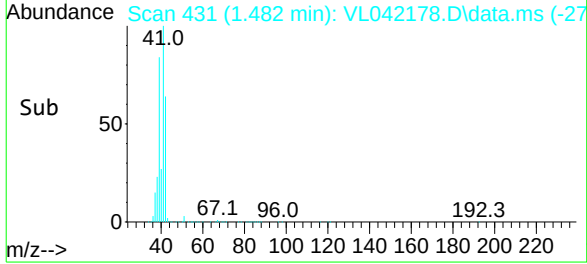
Instrument : MSVOA_L
ClientSampleId : VSTDIC015



Tgt Ion: 41 Resp: 163799
Ion Ratio Lower Upper
41 100
42 65.3 55.4 83.2

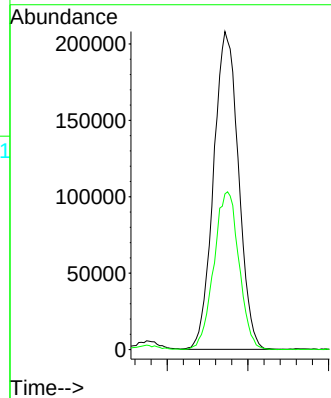
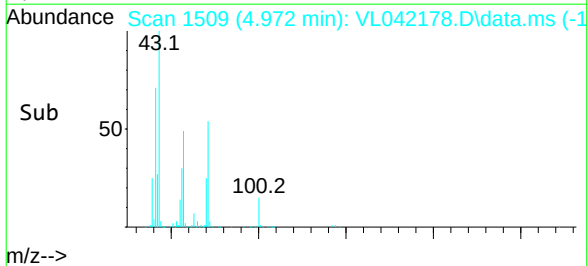
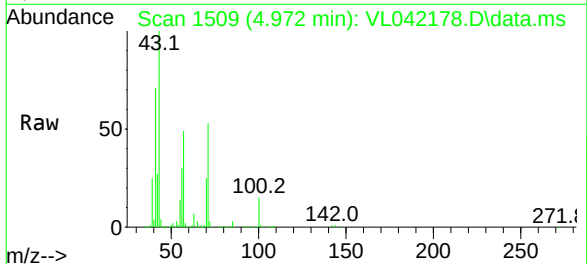
Manual Integrations
APPROVED

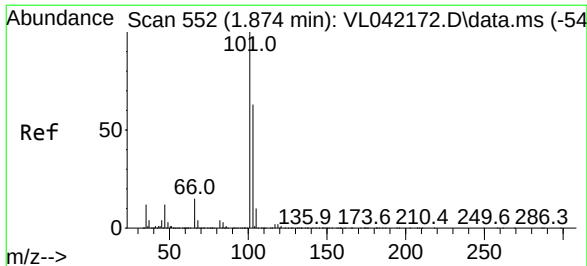
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#10
Heptane
Concen: 14.019 ppbv
RT: 4.972 min Scan# 1509
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

Tgt Ion: 43 Resp: 446949
Ion Ratio Lower Upper
43 100
57 49.9 39.4 59.2





#11

Trichlorofluoromethane

Concen: 14.050 ppbv

RT: 1.874 min Scan# 552

Delta R.T. -0.000 min

Lab File: VL042178.D

Acq: 27 Mar 2025 11:36

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tgt Ion:101 Resp: 349967

Ion Ratio Lower Upper

101 100

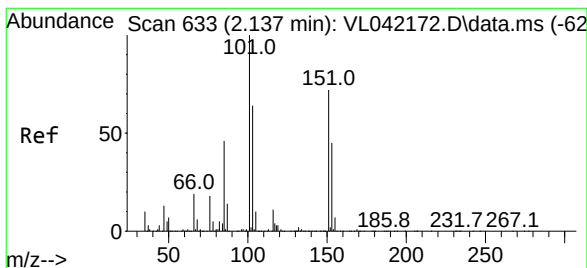
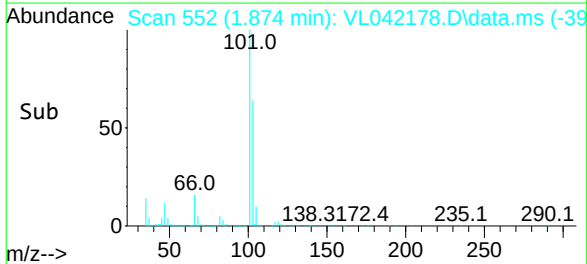
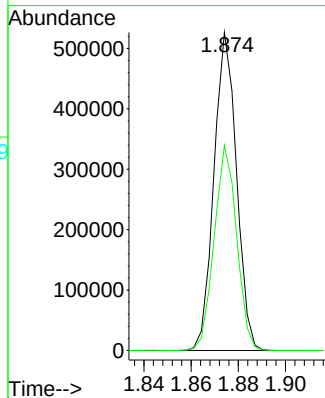
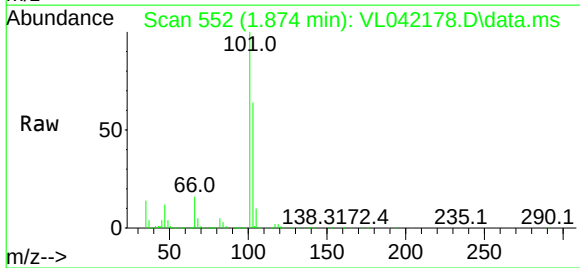
103 64.5 50.2 75.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 03/31/2025

Supervised By :Mahesh Dadoda 04/03/2025



#12

1,1,2-Trichlorotrifluoroethane

Concen: 14.419 ppbv

RT: 2.136 min Scan# 633

Delta R.T. -0.000 min

Lab File: VL042178.D

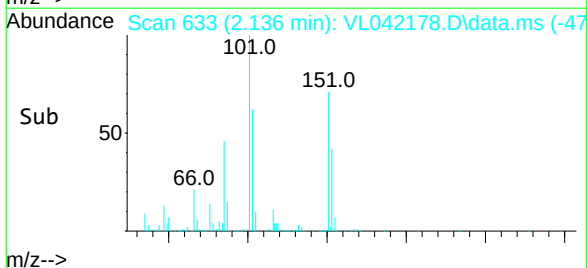
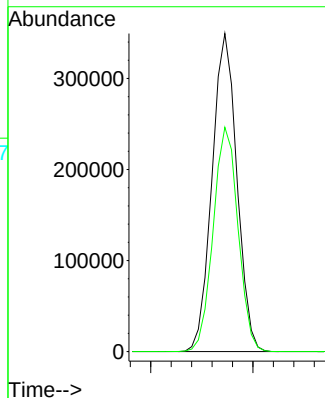
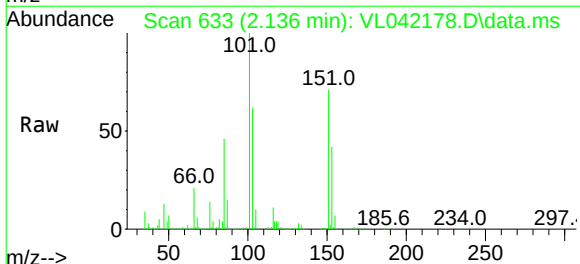
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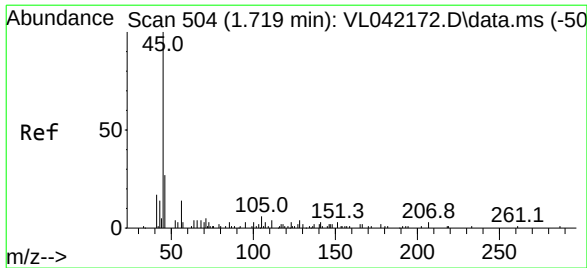
Tgt Ion:101 Resp: 295217

Ion Ratio Lower Upper

101 100

151 70.4 57.1 85.7





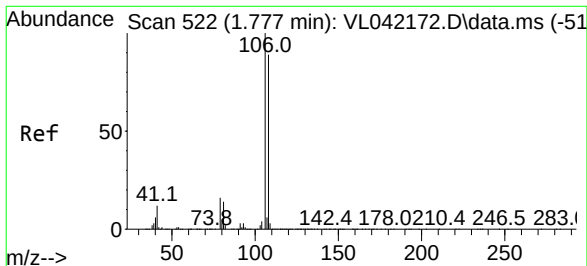
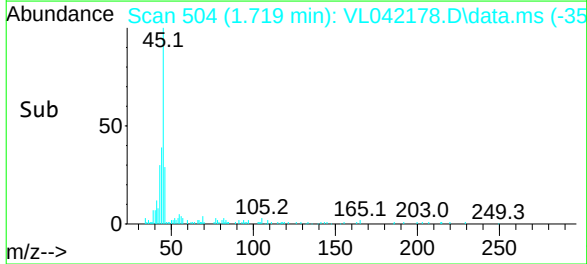
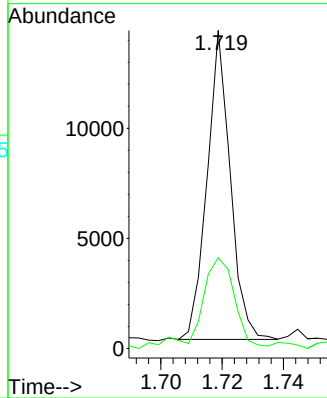
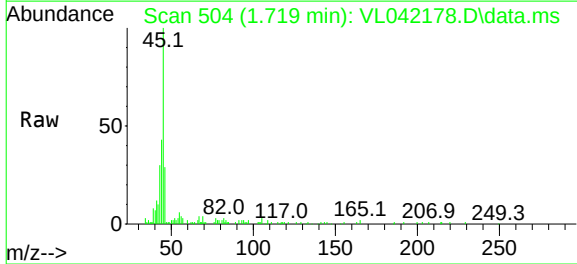
#13
Ethanol
Concen: 8.001 ppbv
RT: 1.719 min Scan# 504
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion: 45 Resp: 7382
Ion Ratio Lower Upper
45 100
46 44.6 20.2 80.8

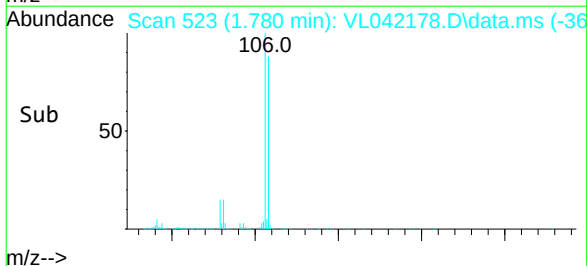
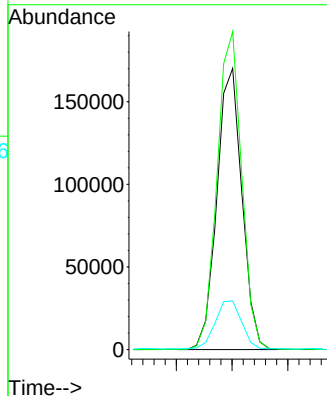
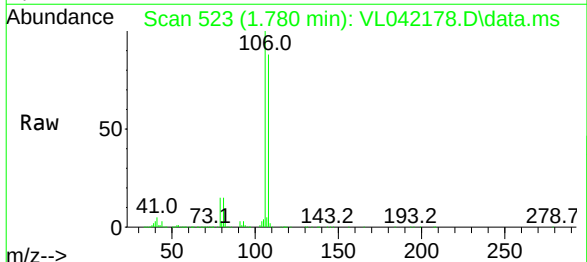
Manual Integrations
APPROVED

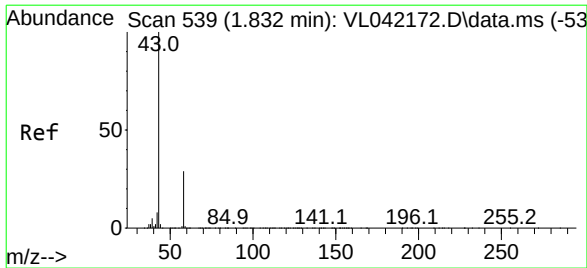
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#14
Bromoethene
Concen: 13.571 ppbv
RT: 1.780 min Scan# 523
Delta R.T. 0.003 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

Tgt Ion:108 Resp: 106436
Ion Ratio Lower Upper
108 100
106 110.9 86.8 130.2
79 18.8 15.0 22.6





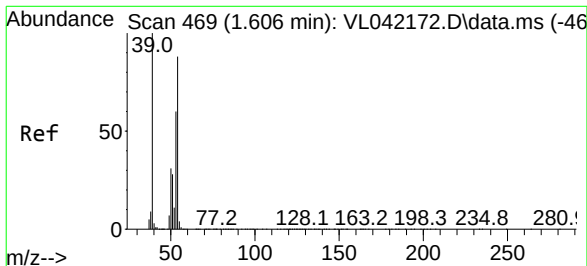
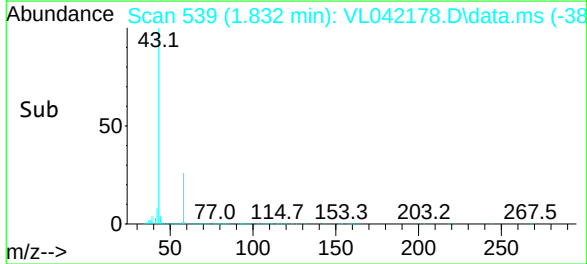
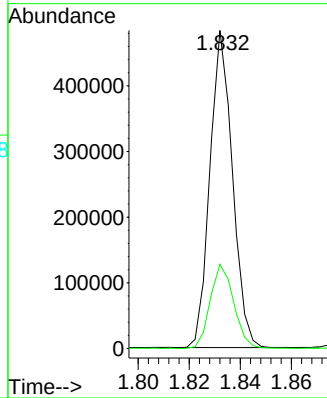
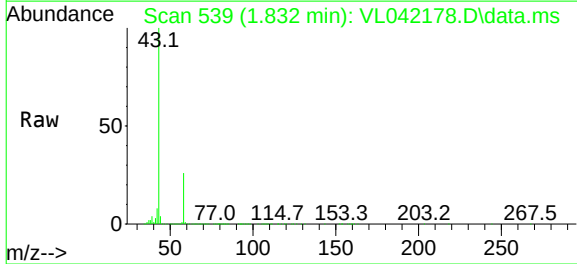
#15
Acetone
Concen: 12.218 ppbv
RT: 1.832 min Scan# 539
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion: 43 Resp: 296254
Ion Ratio Lower Upper
43 100
58 27.7 23.2 34.8

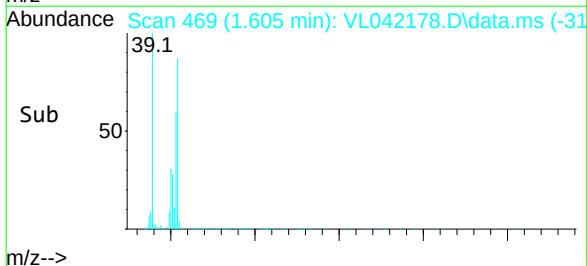
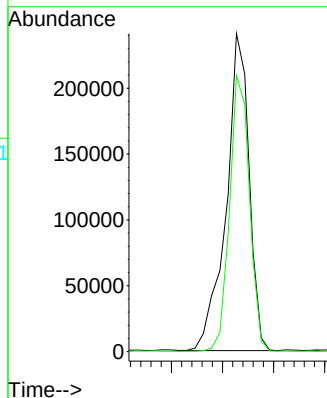
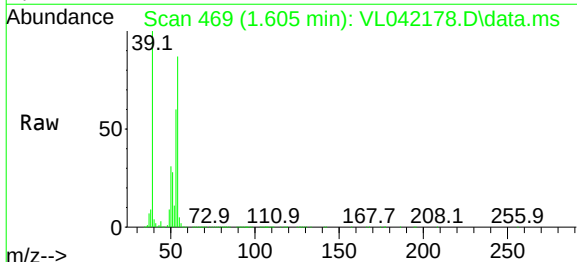
Manual Integrations
APPROVED

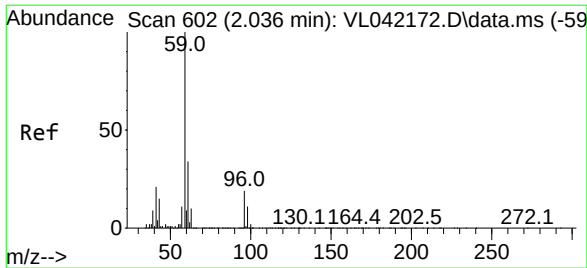
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#16
1,3-Butadiene
Concen: 13.766 ppbv
RT: 1.605 min Scan# 469
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

Tgt Ion: 39 Resp: 150122
Ion Ratio Lower Upper
39 100
54 76.3 60.7 91.1





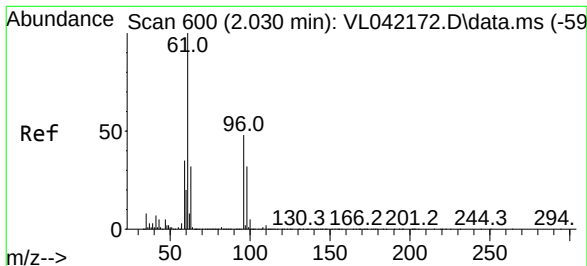
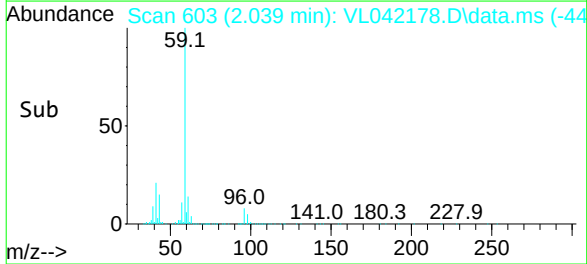
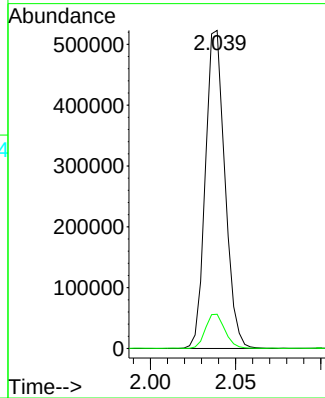
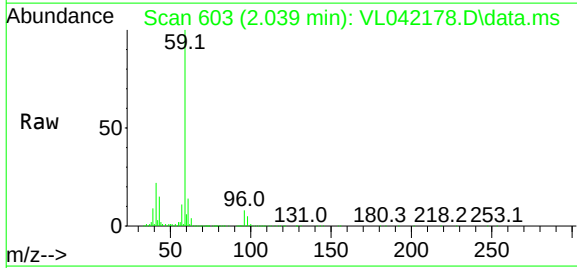
#17
tert-Butyl alcohol
Concen: 13.787 ppbv
RT: 2.039 min Scan# 602
Delta R.T. 0.003 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tgt Ion: 59 Resp: 416362
Ion Ratio Lower Upper
59 100
57 10.8 8.9 13.3

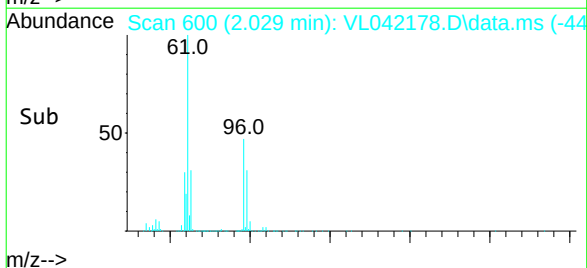
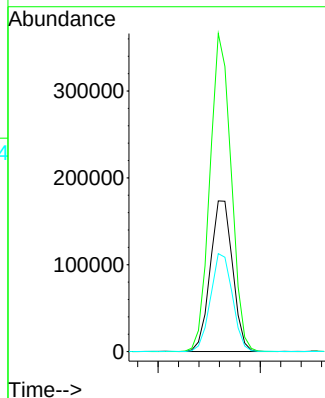
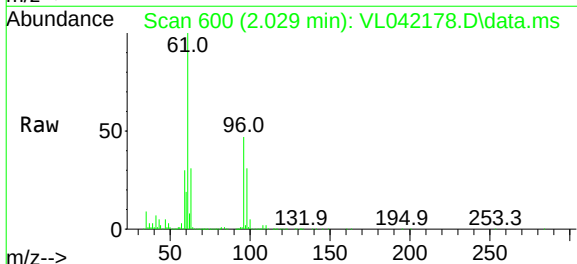
Manual Integrations
APPROVED

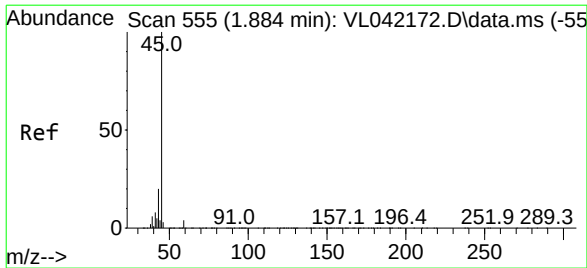
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#18
1,1-Dichloroethene
Concen: 13.762 ppbv
RT: 2.029 min Scan# 600
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

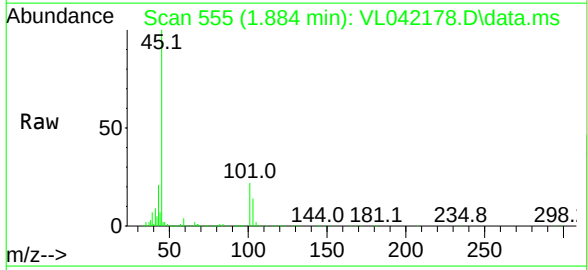
Tgt Ion: 96 Resp: 131720
Ion Ratio Lower Upper
96 100
61 211.1 167.6 251.4
98 64.9 53.5 80.3





#19
Isopropyl Alcohol
Concen: 13.093 ppbv
RT: 1.884 min Scan# 555
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

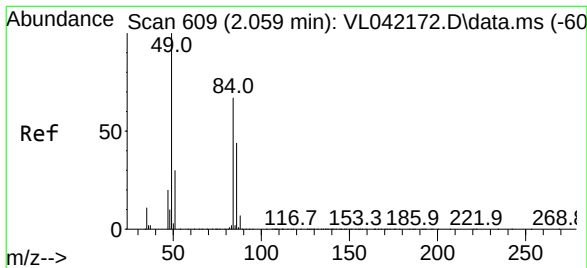
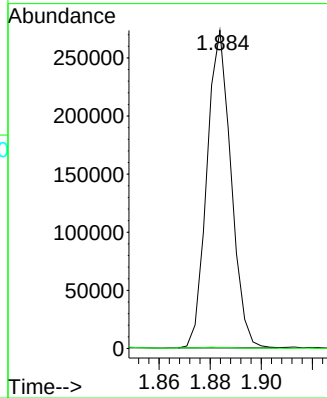
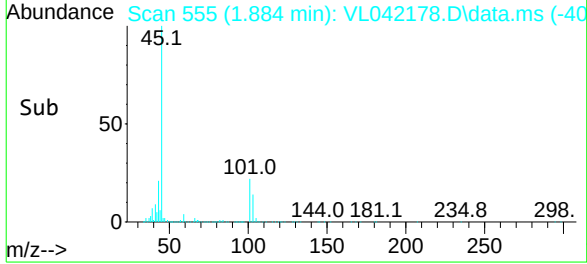
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015



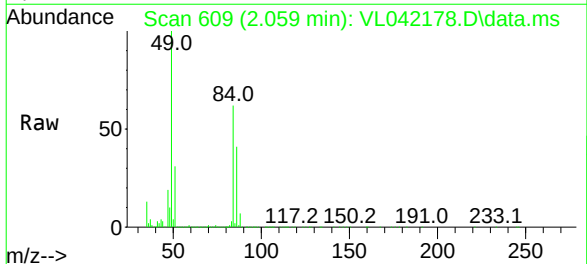
Tgt Ion: 45 Resp: 179117
Ion Ratio Lower Upper
45 100
58 46.4 36.9 55.3

Manual Integrations
APPROVED

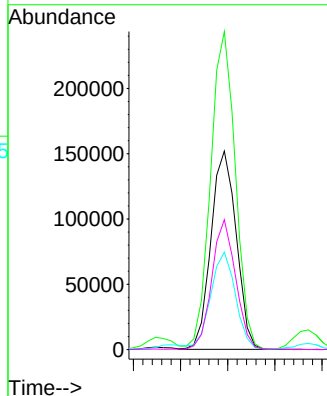
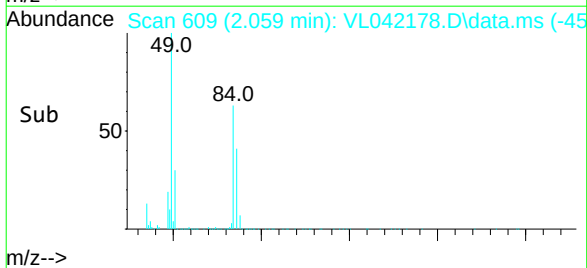
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025

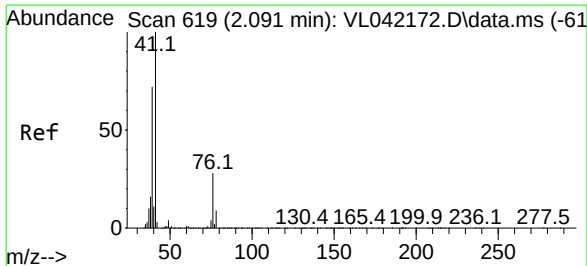


#20
Methylene Chloride
Concen: 12.533 ppbv
RT: 2.059 min Scan# 609
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36



Tgt Ion: 84 Resp: 113183
Ion Ratio Lower Upper
84 100
49 159.7 120.2 180.4
51 48.7 37.4 56.0
86 65.3 52.4 78.6





#21

Allyl Chloride

Concen: 14.002 ppbv

RT: 2.094 min Scan# 62

Delta R.T. 0.003 min

Lab File: VL042178.D

Acq: 27 Mar 2025 11:36

Instrument :

MSVOA_L

ClientSampleId :

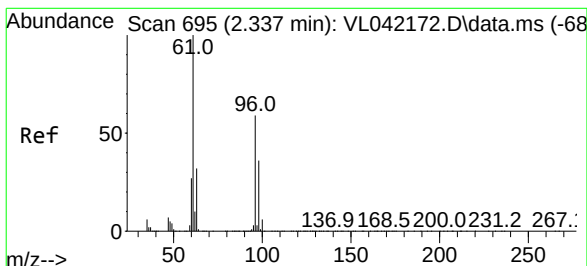
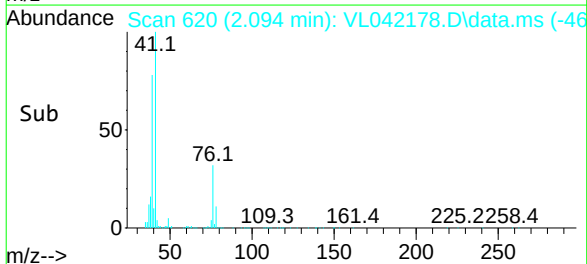
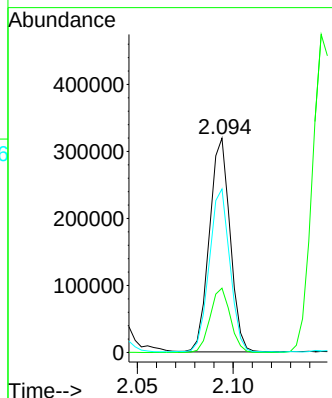
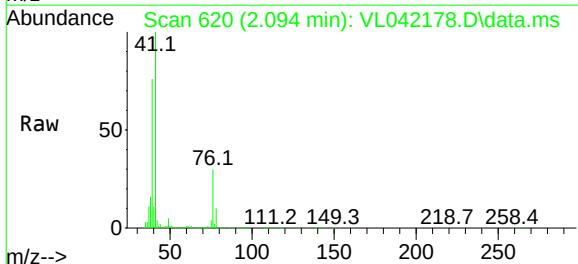
VSTDICC015

Tgt Ion:	41	Resp:	239440
Ion	Ratio	Lower	Upper
41	100		
76	29.5	24.1	36.1
39	76.1	61.1	91.7

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#22

trans-1,2-Dichloroethene

Concen: 13.362 ppbv

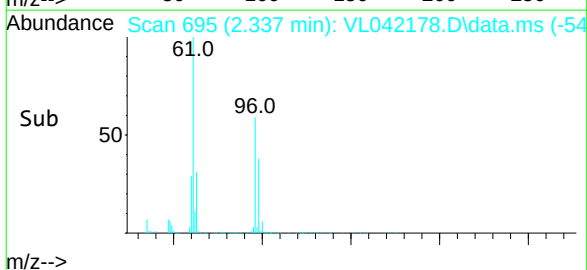
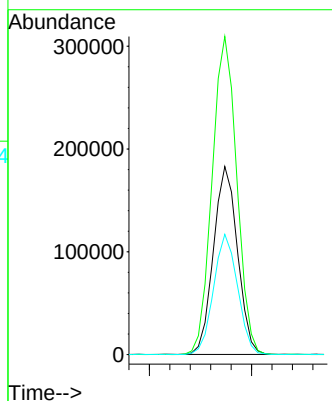
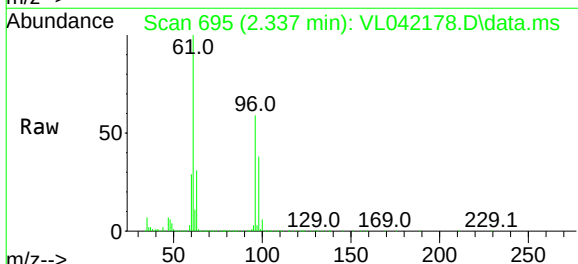
RT: 2.337 min Scan# 695

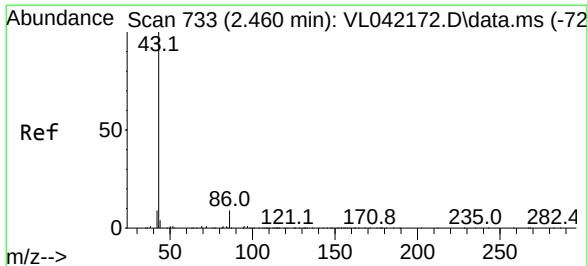
Delta R.T. -0.000 min

Lab File: VL042178.D

Acq: 27 Mar 2025 11:36

Tgt Ion:	96	Resp:	149455
Ion	Ratio	Lower	Upper
96	100		
61	169.2	136.6	204.8
98	63.9	49.4	74.2





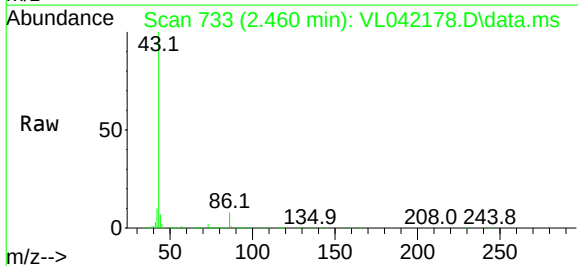
#23
 Vinyl Acetate
 Concen: 13.736 ppbv
 RT: 2.460 min Scan# 733
 Delta R.T. -0.000 min
 Lab File: VL042178.D
 Acq: 27 Mar 2025 11:36

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC015

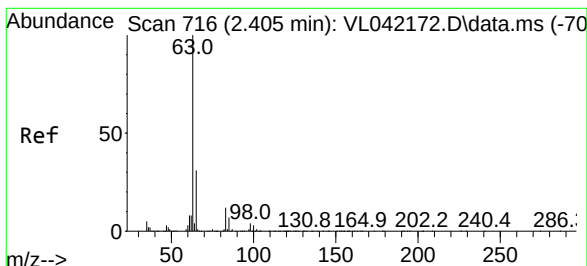
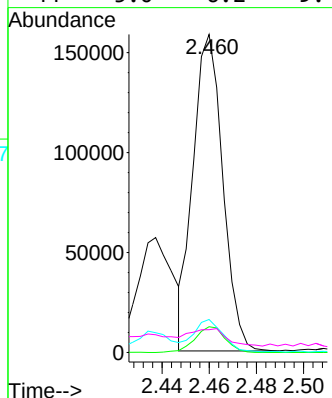
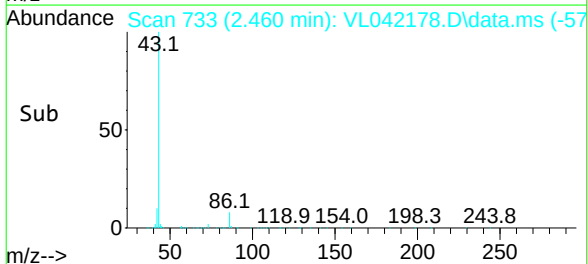


Tgt Ion:	43	Resp:	138419
Ion	Ratio	Lower	Upper
43	100		
86	8.1	5.5	8.3
42	10.1	8.6	13.0
44	5.0	6.2	9.4

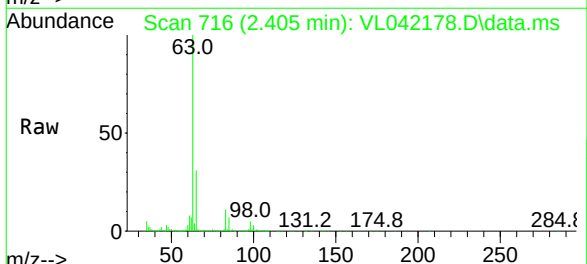
Manual Integrations

APPROVED

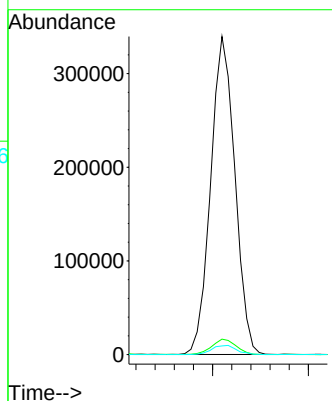
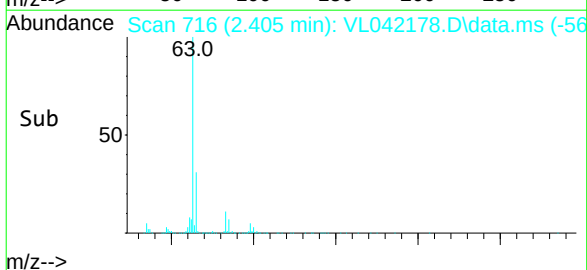
Reviewed By :Semsettin Yesilyurt 03/31/2025
 Supervised By :Mahesh Dadoda 04/03/2025

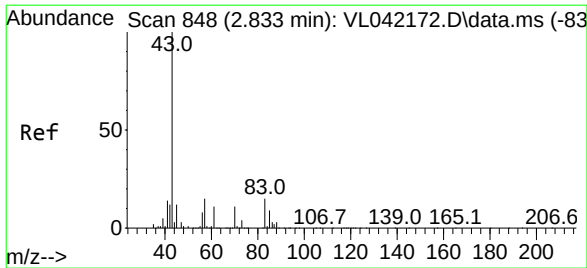


#24
 1,1-Dichloroethane
 Concen: 14.570 ppbv
 RT: 2.405 min Scan# 716
 Delta R.T. -0.000 min
 Lab File: VL042178.D
 Acq: 27 Mar 2025 11:36



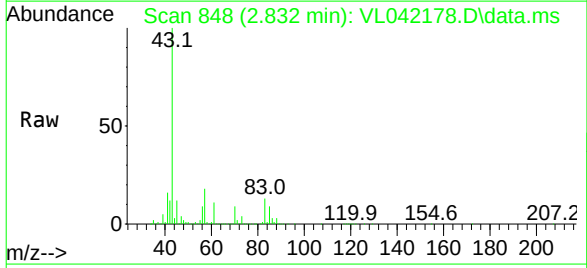
Tgt Ion:	63	Resp:	298760
Ion	Ratio	Lower	Upper
63	100		
98	4.9	2.3	6.8
100	2.7	1.6	4.7





#25
Ethyl Acetate
Concen: 13.855 ppbv
RT: 2.832 min Scan# 848
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

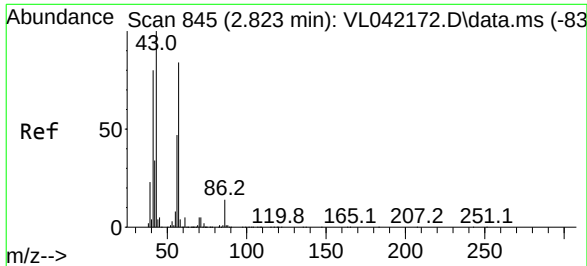
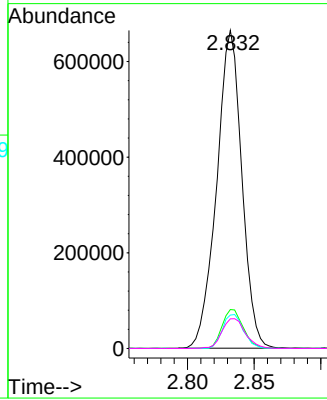
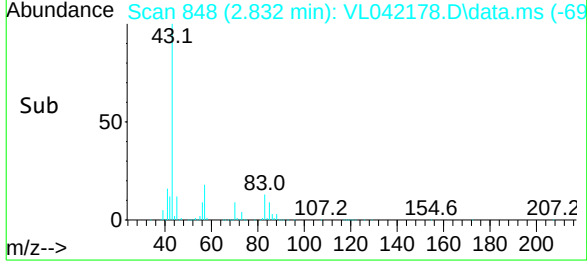
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015



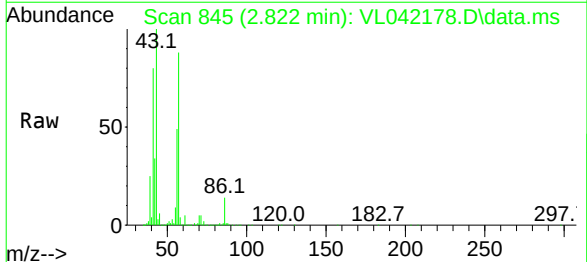
Tgt Ion: 43 Resp: 871882
Ion Ratio Lower Upper
43 100
45 10.3 8.2 12.2
61 9.0 7.3 10.9
70 8.8 7.2 10.8

Manual Integrations
APPROVED

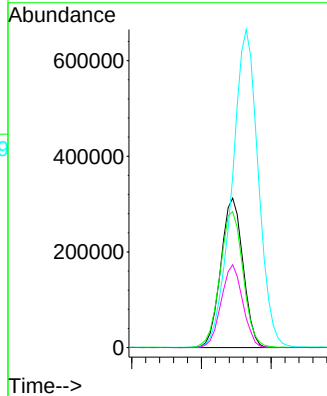
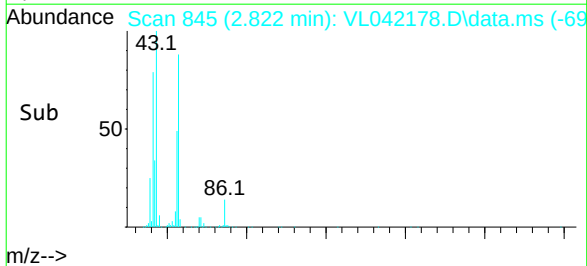
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025

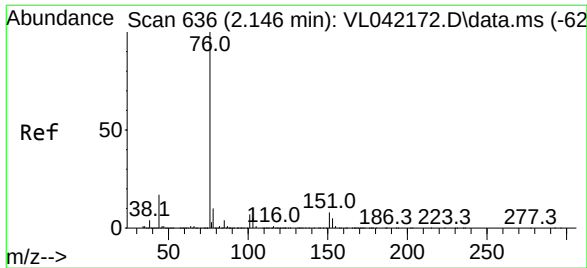


#26
Hexane
Concen: 14.178 ppbv
RT: 2.822 min Scan# 845
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36



Tgt Ion: 57 Resp: 344636
Ion Ratio Lower Upper
57 100
41 96.1 76.6 114.8
43 254.0 207.8 311.8
56 53.9 43.6 65.4





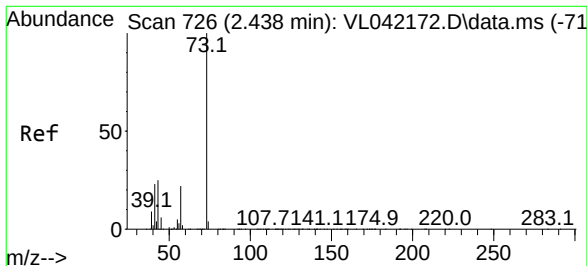
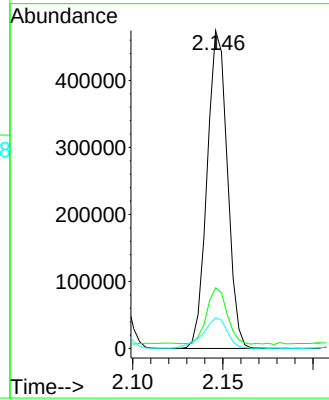
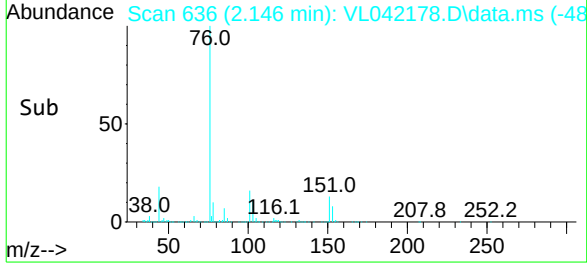
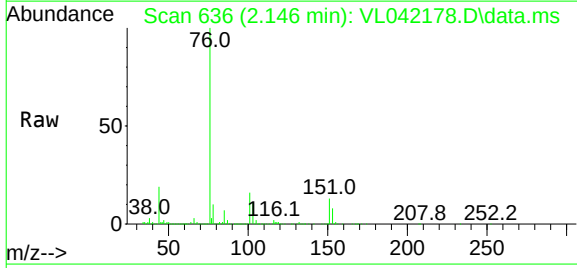
#27
Carbon Disulfide
Concen: 14.196 ppbv
RT: 2.146 min Scan# 636
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion: 76 Resp: 370022
Ion Ratio Lower Upper
76 100
44 20.3 14.7 22.1
78 11.7 9.3 13.9

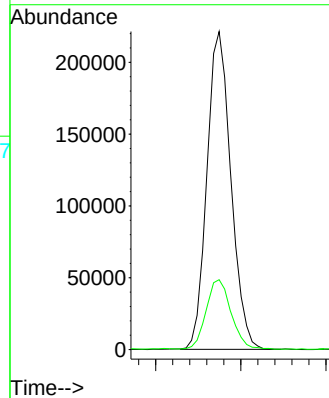
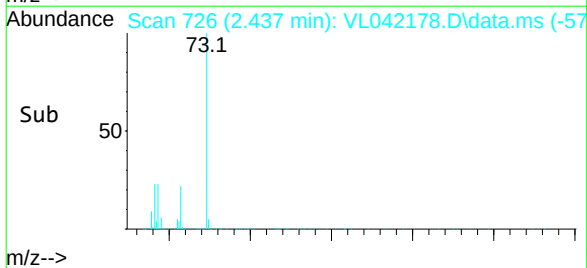
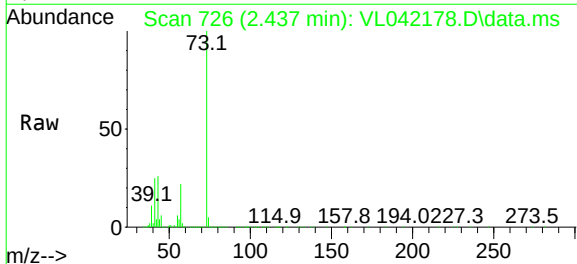
Manual Integrations
APPROVED

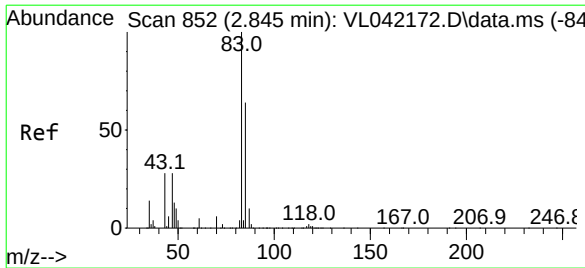
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#28
Methyl tert-Butyl Ether
Concen: 14.303 ppbv
RT: 2.437 min Scan# 726
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

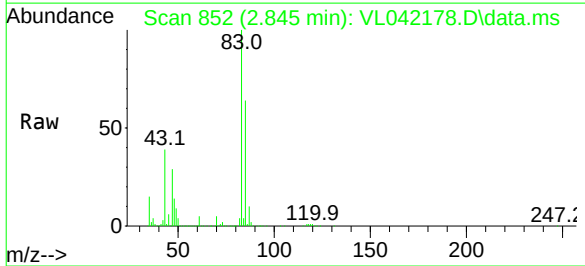
Tgt Ion: 73 Resp: 216463
Ion Ratio Lower Upper
73 100
57 23.2 20.5 30.7





#29
Chloroform
Concen: 14.297 ppbv
RT: 2.845 min Scan# 85
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

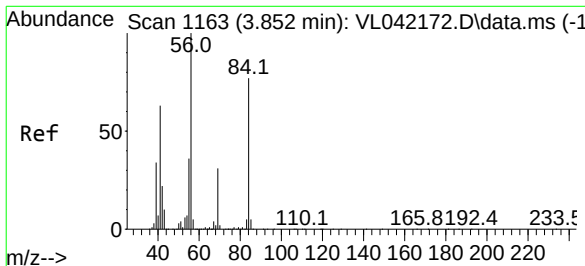
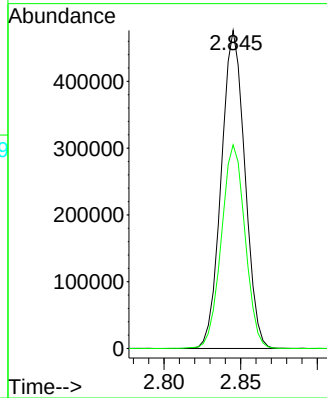
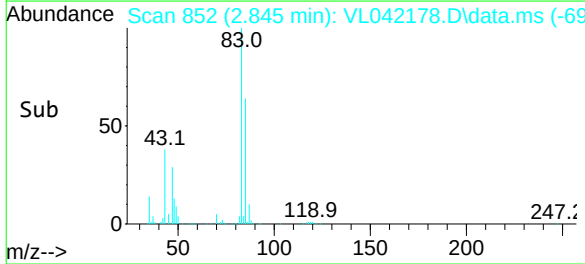
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015



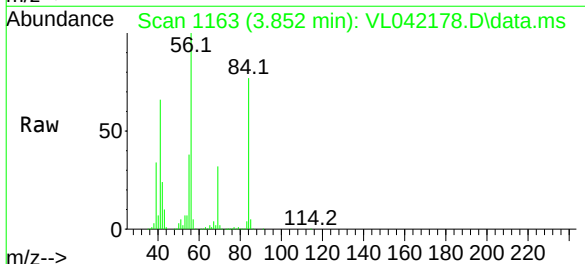
Tgt Ion: 83 Resp: 508614
Ion Ratio Lower Upper
83 100
85 64.0 51.4 77.2

Manual Integrations
APPROVED

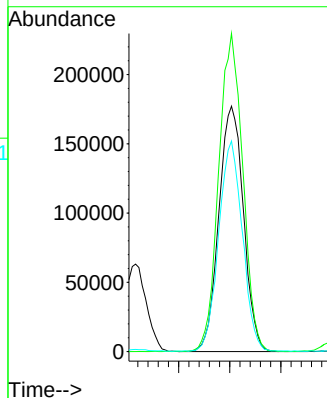
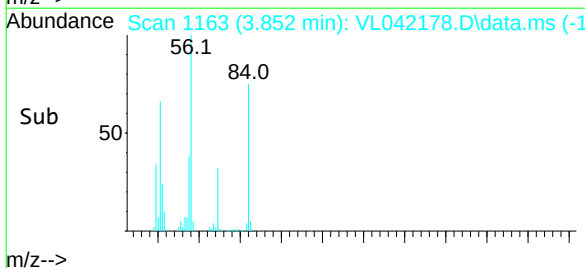
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025

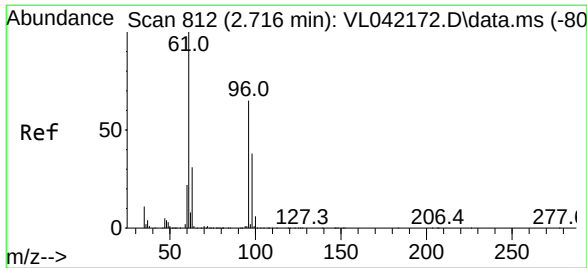


#30
Cyclohexane
Concen: 14.040 ppbv
RT: 3.852 min Scan# 1163
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36



Tgt Ion: 84 Resp: 296458
Ion Ratio Lower Upper
84 100
56 126.7 102.8 154.2
41 82.6 66.5 99.7





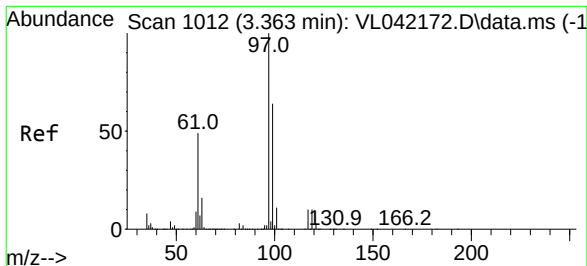
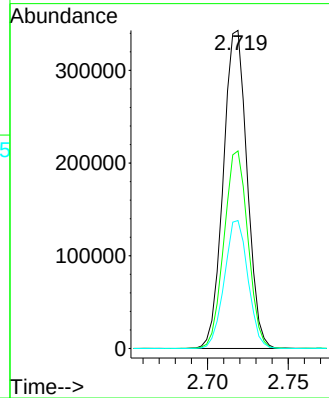
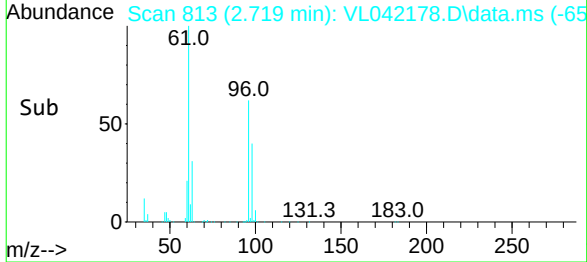
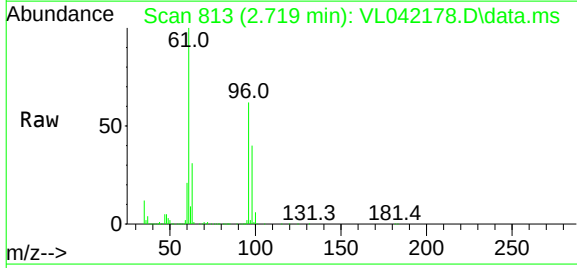
#31
cis-1,2-Dichloroethene
Concen: 14.262 ppbv
RT: 2.719 min Scan# 812
Delta R.T. 0.003 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tgt Ion: 61 Resp: 351945
Ion Ratio Lower Upper
61 100
96 62.1 51.8 77.8
98 40.2 30.6 46.0

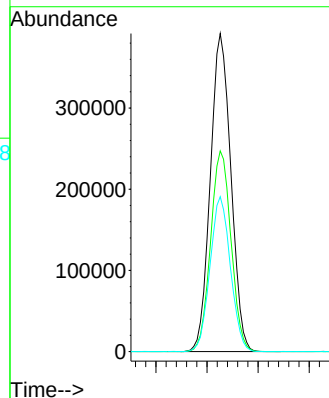
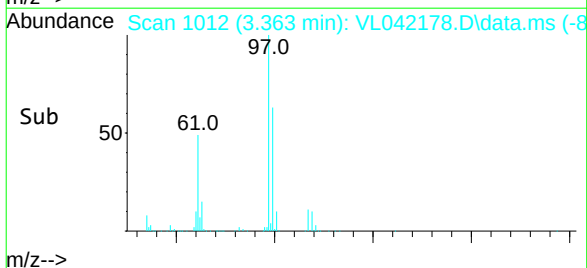
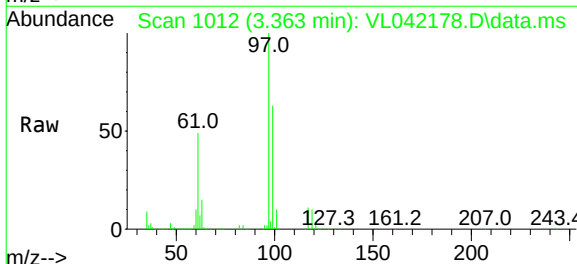
Manual Integrations
APPROVED

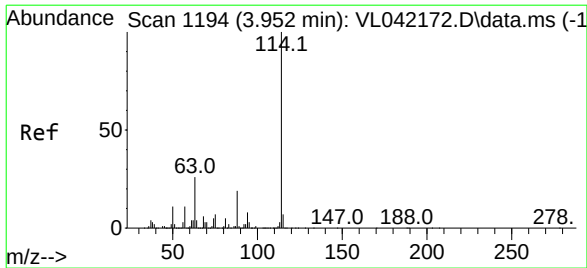
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#32
1,1,1-Trichloroethane
Concen: 13.448 ppbv
RT: 3.363 min Scan# 1012
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

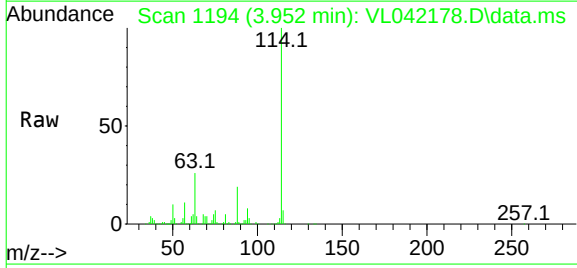
Tgt Ion: 97 Resp: 547329
Ion Ratio Lower Upper
97 100
99 62.8 51.5 77.3
61 48.4 38.7 58.1





#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.952 min Scan# 1194
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

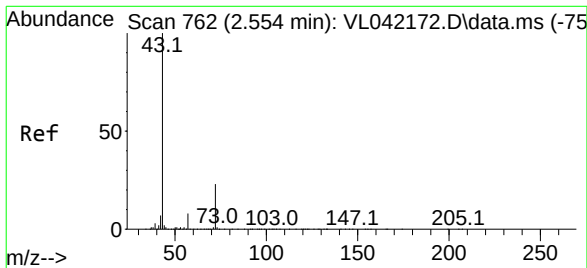
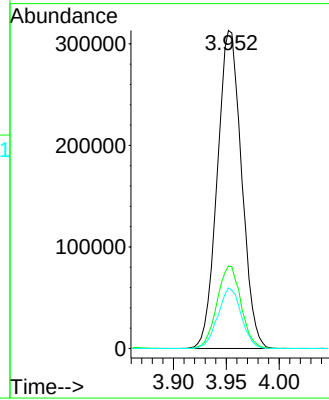
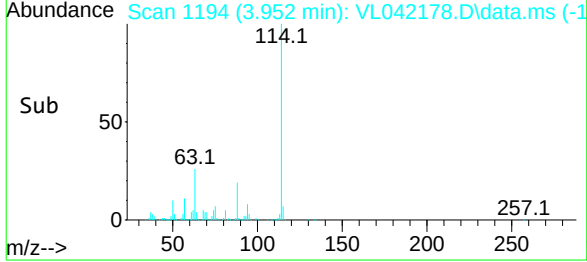
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015



Tgt Ion: 114 Resp: 499360
Ion Ratio Lower Upper
114 100
63 25.7 20.7 31.1
88 18.4 15.0 22.4

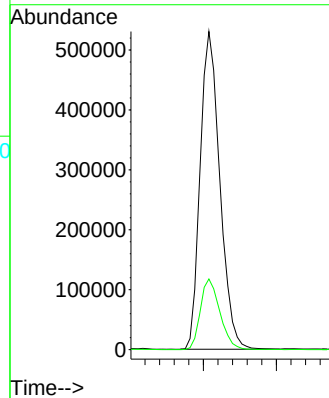
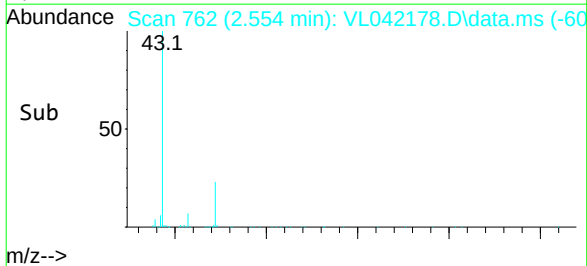
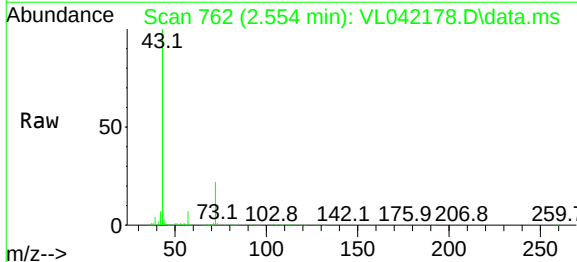
Manual Integrations
APPROVED

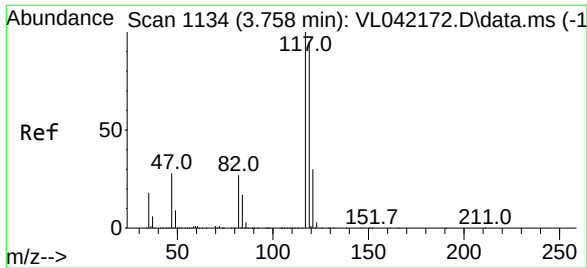
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#34
2-Butanone
Concen: 13.726 ppbv
RT: 2.554 min Scan# 762
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

Tgt Ion: 43 Resp: 497020
Ion Ratio Lower Upper
43 100
72 22.0 18.2 27.2





#35

Carbon Tetrachloride

Concen: 14.140 ppbv

RT: 3.758 min Scan# 11

Delta R.T. -0.000 min

Lab File: VL042178.D

Acq: 27 Mar 2025 11:36

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tgt Ion:117 Resp: 543385

Ion Ratio Lower Upper

117 100

119 95.5 76.2 114.2

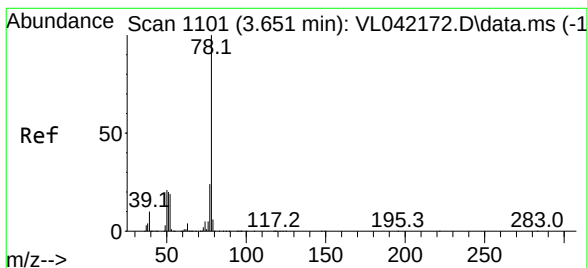
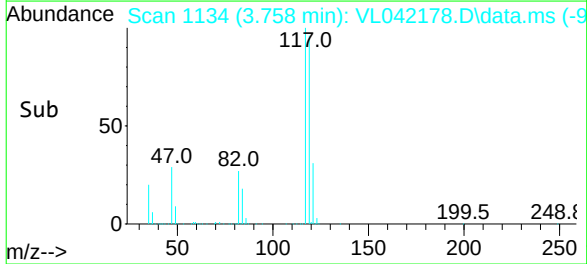
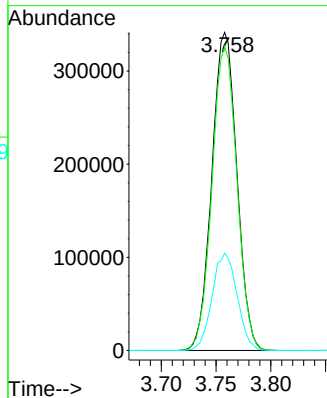
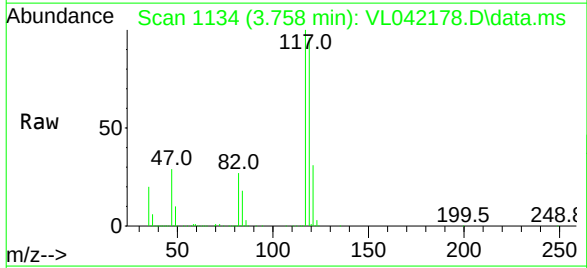
121 30.6 24.2 36.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 03/31/2025

Supervised By :Mahesh Dadoda 04/03/2025



#36

Benzene

Concen: 14.131 ppbv

RT: 3.651 min Scan# 1101

Delta R.T. -0.000 min

Lab File: VL042178.D

Acq: 27 Mar 2025 11:36

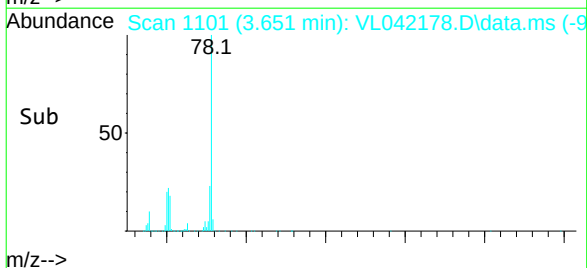
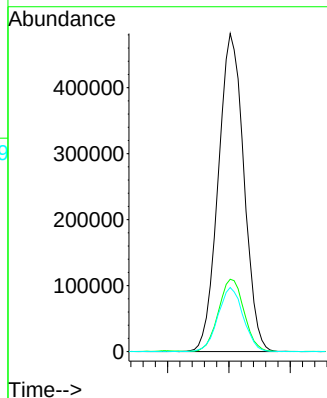
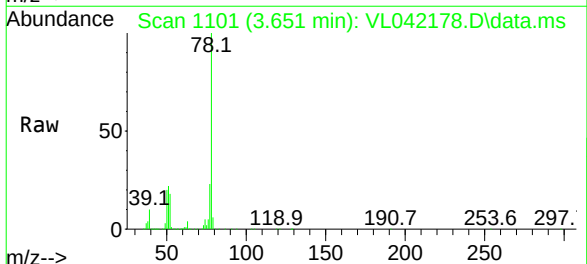
Tgt Ion: 78 Resp: 699549

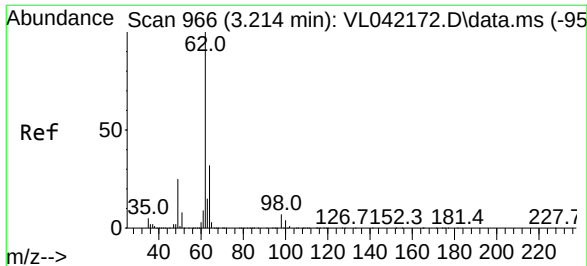
Ion Ratio Lower Upper

78 100

77 22.7 19.1 28.7

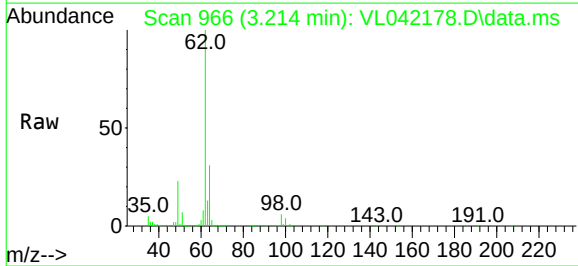
50 20.1 16.6 24.8





#37
1,2-Dichloroethane
Concen: 14.697 ppbv
RT: 3.214 min Scan# 966
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

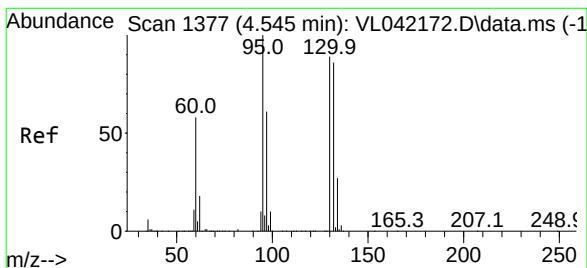
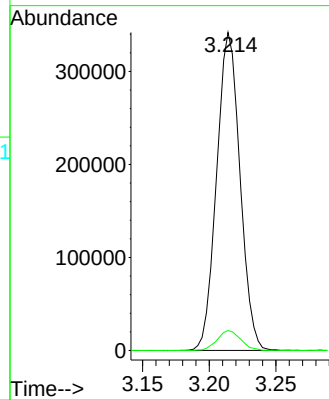
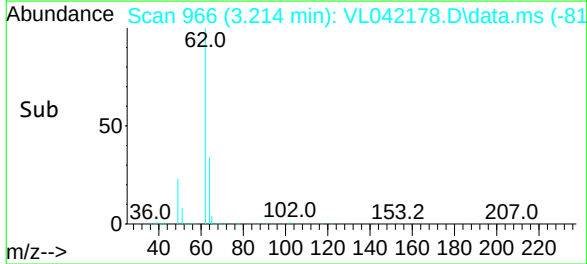
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015



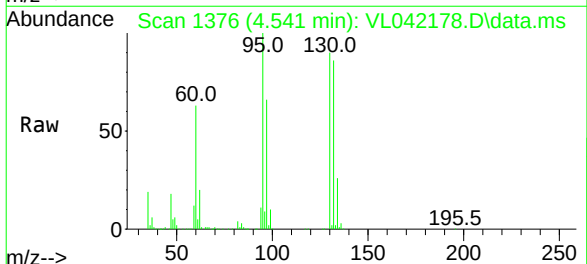
Tgt Ion: 62 Resp: 416544
Ion Ratio Lower Upper
62 100
98 6.4 5.4 8.2

Manual Integrations
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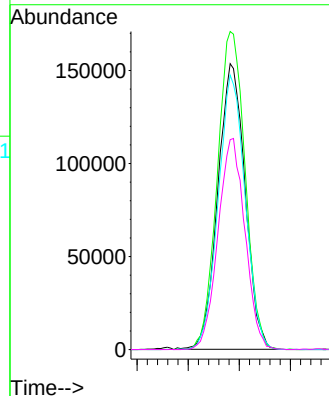
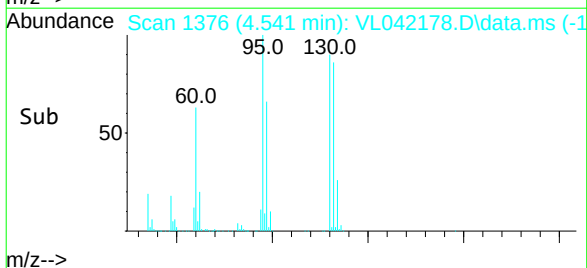
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025

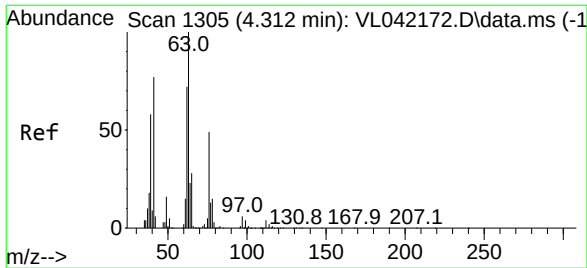


#38
Trichloroethene
Concen: 13.715 ppbv
RT: 4.541 min Scan# 1376
Delta R.T. -0.004 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36



Tgt Ion:130 Resp: 283430
Ion Ratio Lower Upper
130 100
95 111.3 89.8 134.8
132 96.0 77.4 116.2
97 73.5 55.1 82.7





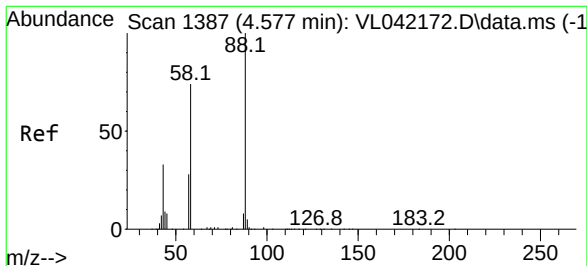
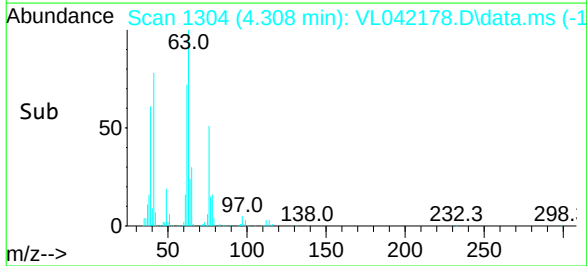
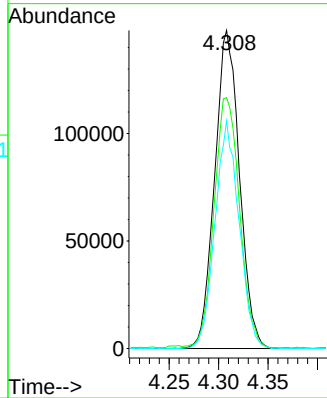
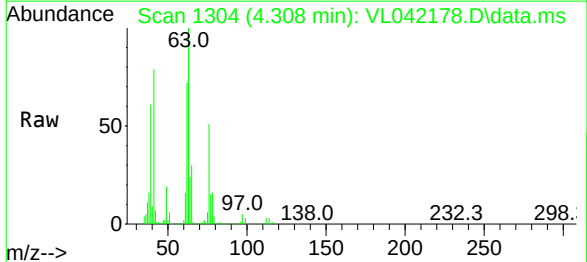
#39
1,2-Dichloropropane
Concen: 14.304 ppbv
RT: 4.308 min Scan# 1305
Delta R.T. -0.004 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tgt Ion: 63 Resp: 257891
Ion Ratio Lower Upper
63 100
41 78.7 61.7 92.5
62 71.6 57.6 86.4

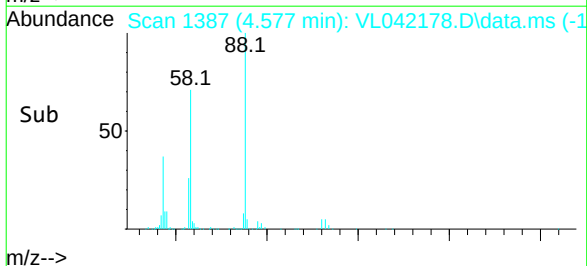
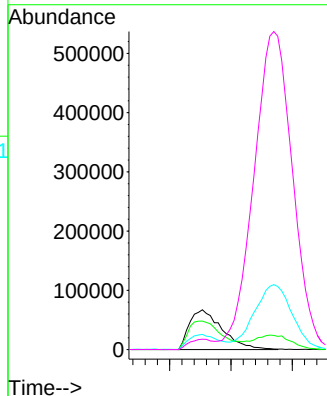
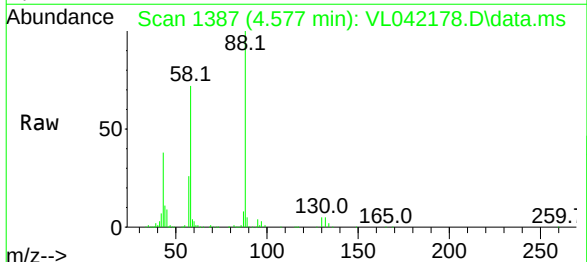
Manual Integrations
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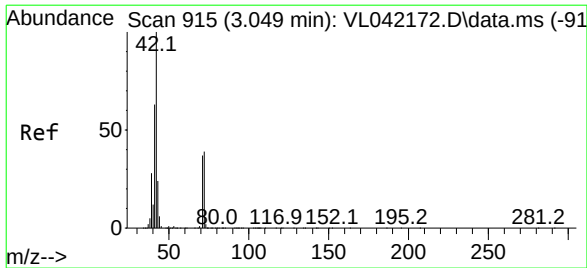
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#40
1,4-Dioxane
Concen: 13.354 ppbv
RT: 4.577 min Scan# 1387
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

Tgt Ion: 88 Resp: 124925
Ion Ratio Lower Upper
88 100
58 69.6 62.7 94.1
43 31.6 23.0 34.4
57 0.0 0.0 0.0





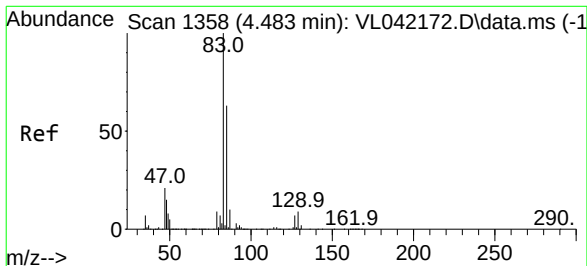
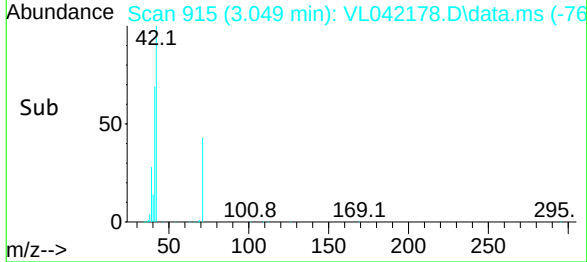
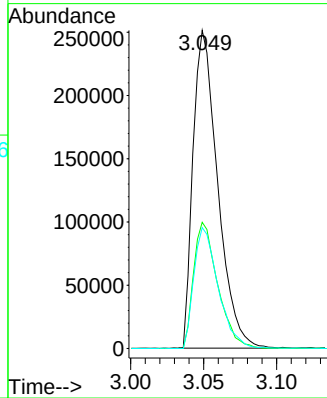
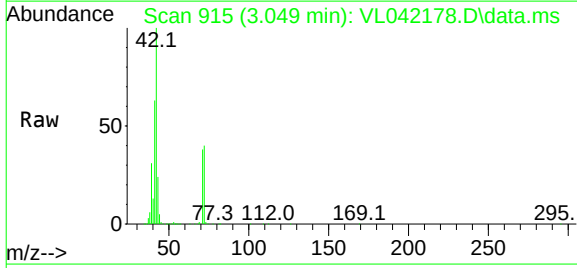
#41
Tetrahydrofuran
Concen: 14.301 ppbv
RT: 3.049 min Scan# 915
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tgt Ion: 42 Resp: 294634
Ion Ratio Lower Upper
42 100
72 39.0 31.4 47.0
71 37.9 30.2 45.4

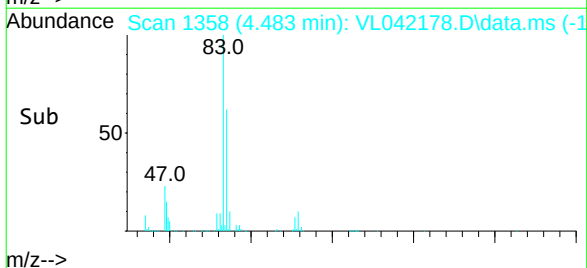
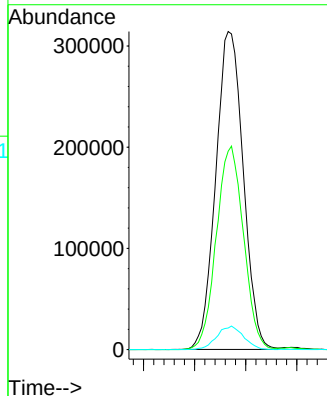
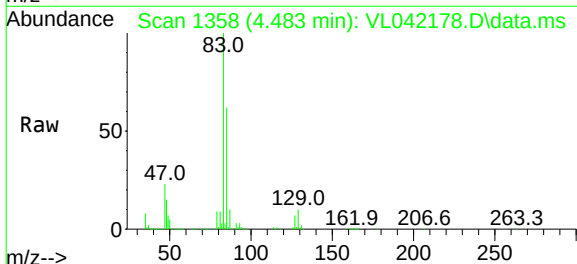
Manual Integrations
APPROVED

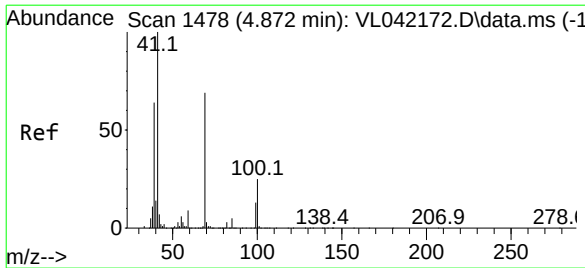
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#42
Bromodichloromethane
Concen: 15.043 ppbv
RT: 4.483 min Scan# 1358
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

Tgt Ion: 83 Resp: 587772
Ion Ratio Lower Upper
83 100
85 62.4 50.5 75.7
127 6.8 5.9 8.9





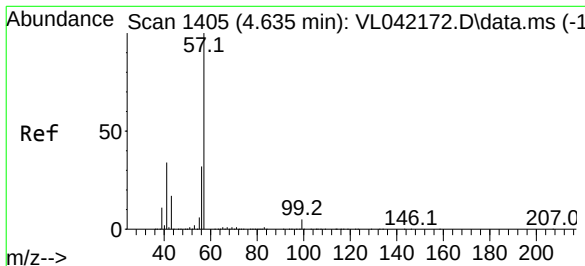
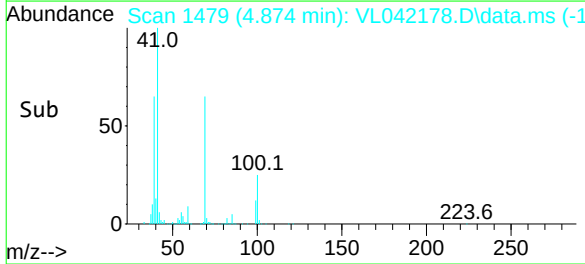
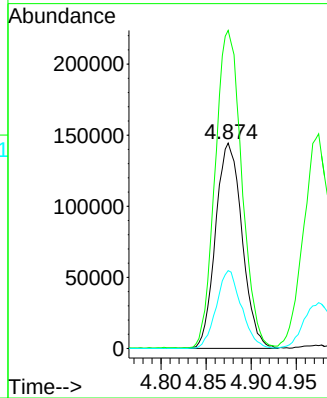
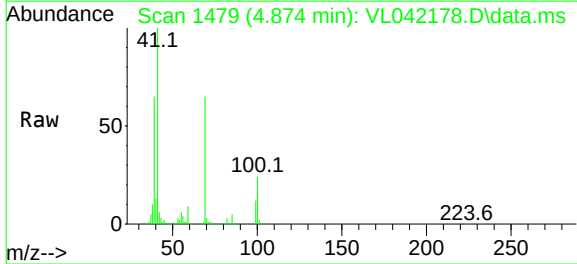
#43
Methyl Methacrylate
Concen: 14.130 ppbv
RT: 4.874 min Scan# 1478
Delta R.T. 0.003 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion: 69 Resp: 295300
Ion Ratio Lower Upper
69 100
41 155.4 123.8 185.6
100 36.0 28.4 42.6

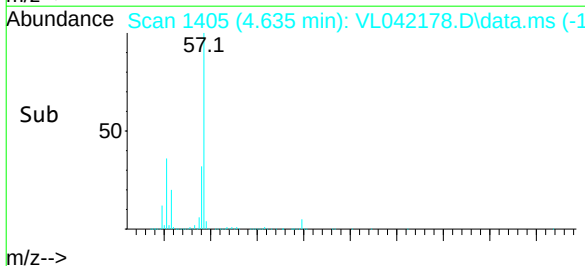
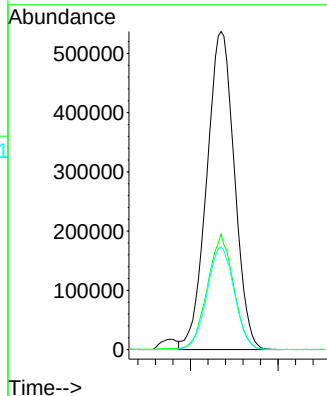
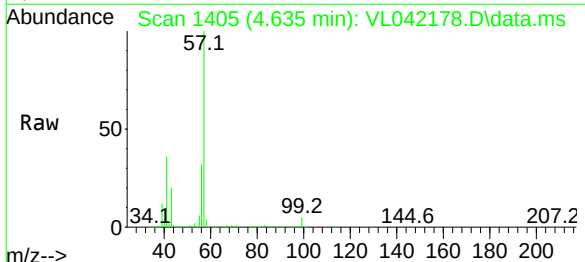
Manual Integrations
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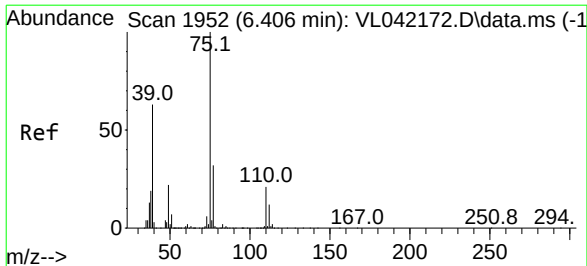
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#44
2,2,4-Trimethylpentane
Concen: 14.108 ppbv
RT: 4.635 min Scan# 1405
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

Tgt Ion: 57 Resp: 1180275
Ion Ratio Lower Upper
57 100
41 34.2 26.8 40.2
56 31.9 25.6 38.4





#45

t-1,3-Dichloropropene

Concen: 14.649 ppbv

RT: 6.405 min Scan# 19

Delta R.T. -0.000 min

Lab File: VL042178.D

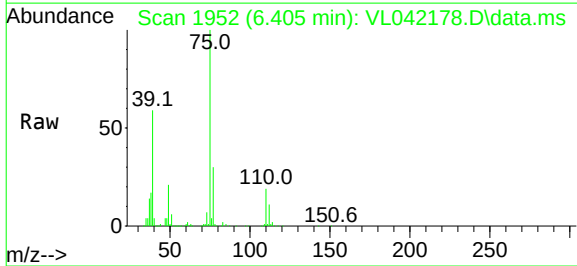
Acq: 27 Mar 2025 11:36

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015



Tgt Ion: 75 Resp: 329360

Ion Ratio Lower Upper

75 100

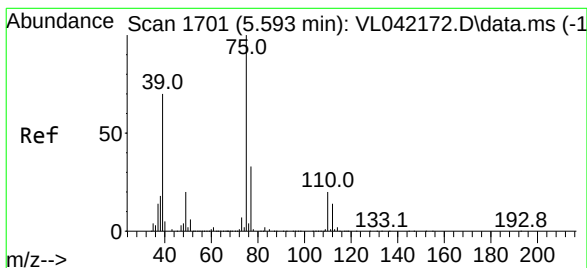
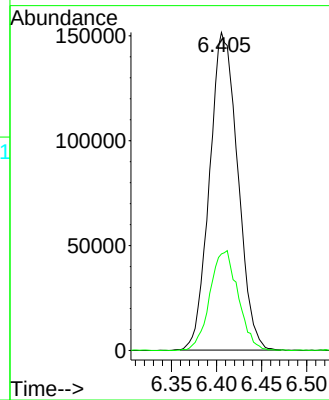
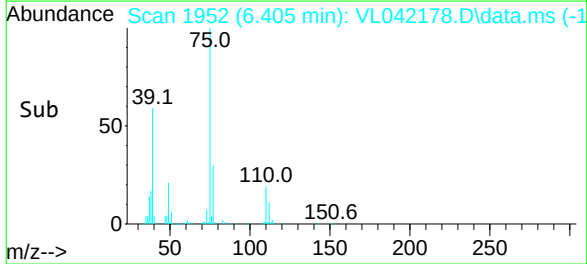
77 30.4 26.0 39.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 03/31/2025

Supervised By :Mahesh Dadoda 04/03/2025



#46

cis-1,3-Dichloropropene

Concen: 14.542 ppbv

RT: 5.593 min Scan# 1701

Delta R.T. -0.000 min

Lab File: VL042178.D

Acq: 27 Mar 2025 11:36

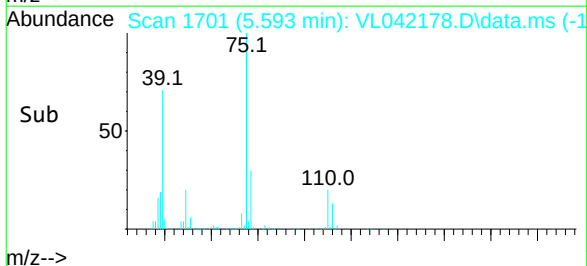
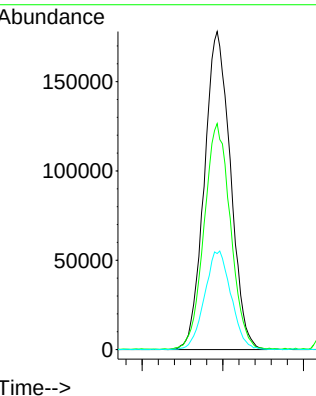
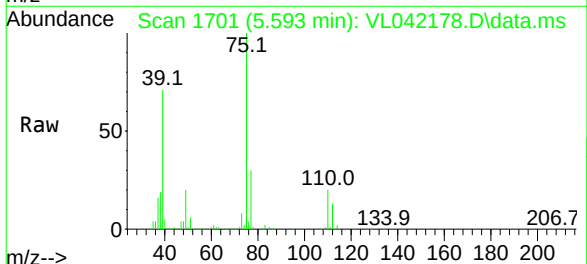
Tgt Ion: 75 Resp: 400813

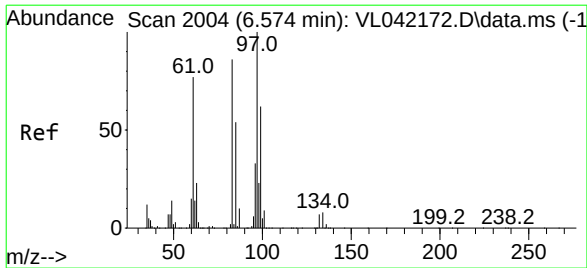
Ion Ratio Lower Upper

75 100

39 70.9 55.8 83.6

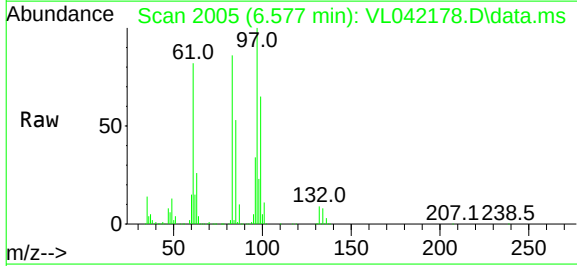
77 30.2 26.0 39.0





#47
1,1,2-Trichloroethane
Concen: 14.331 ppbv
RT: 6.577 min Scan# 2005
Delta R.T. 0.003 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

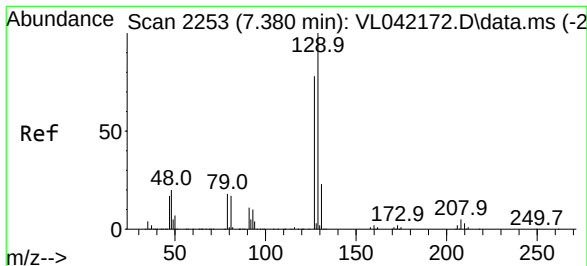
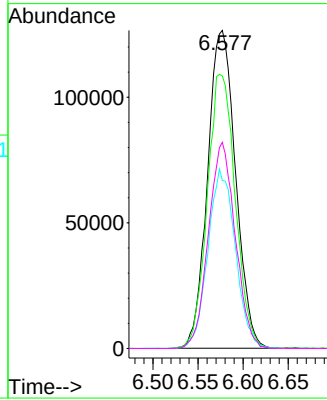
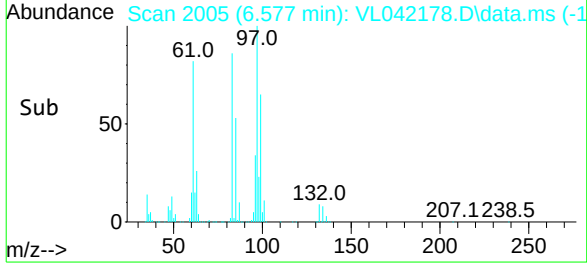
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015



Tgt Ion: 97 Resp: 273137
Ion Ratio Lower Upper
97 100
83 85.7 69.2 103.8
85 52.7 43.1 64.7
99 64.7 49.4 74.2

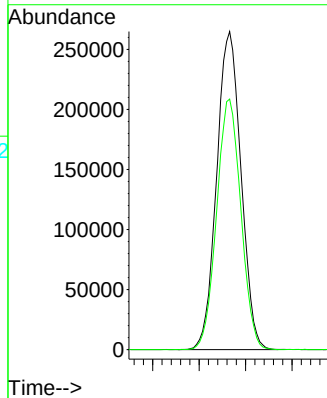
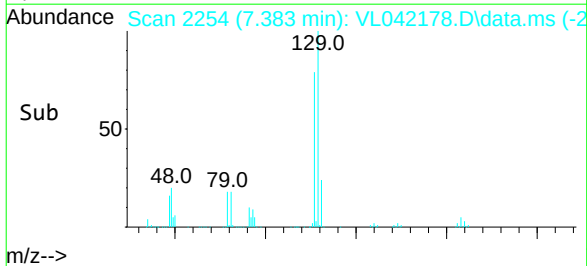
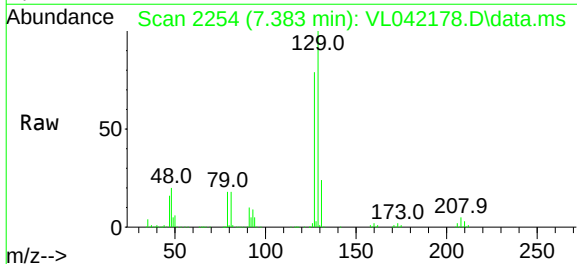
Manual Integrations
APPROVED

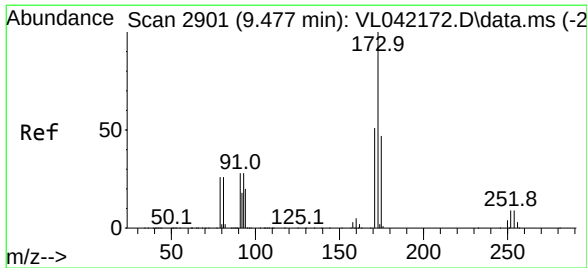
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#48
Dibromochloromethane
Concen: 14.936 ppbv
RT: 7.383 min Scan# 2254
Delta R.T. 0.003 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

Tgt Ion:129 Resp: 482431
Ion Ratio Lower Upper
129 100
127 78.4 39.1 117.2





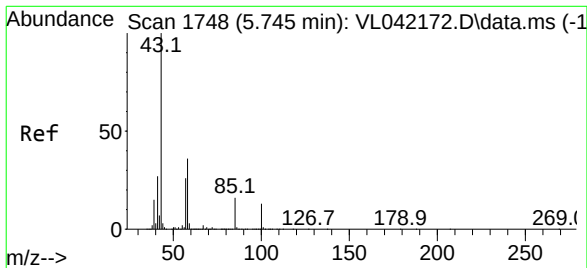
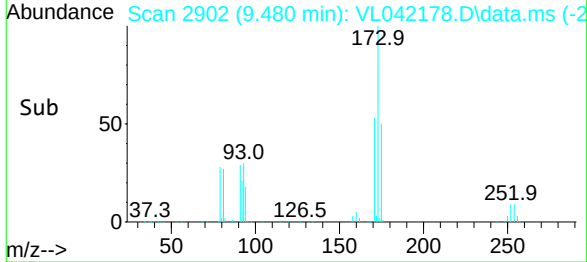
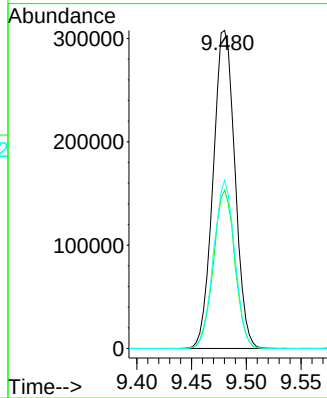
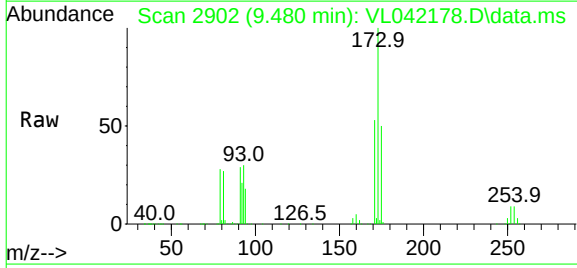
#49
Bromoform
Concen: 14.730 ppbv
RT: 9.480 min Scan# 2901
Delta R.T. 0.003 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tgt Ion: 173 Resp: 427143
Ion Ratio Lower Upper
173 100
175 48.9 38.6 57.8
171 51.5 41.8 62.6

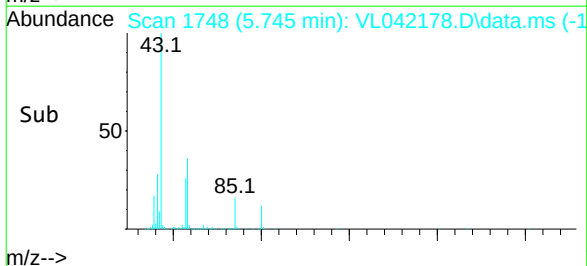
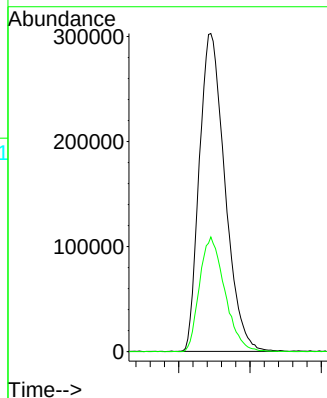
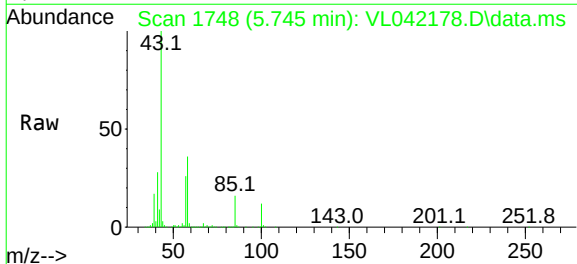
Manual Integrations
APPROVED

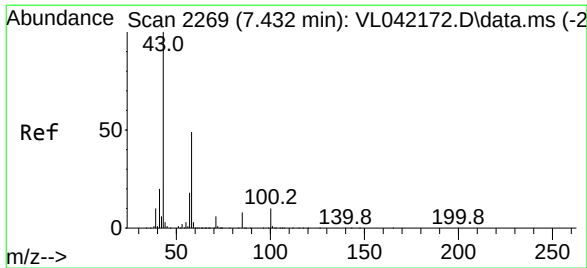
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#50
4-Methyl-2-Pentanone
Concen: 13.155 ppbv
RT: 5.745 min Scan# 1748
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

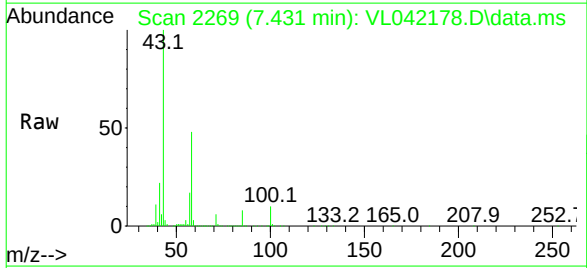
Tgt Ion: 43 Resp: 755146
Ion Ratio Lower Upper
43 100
58 35.5 29.0 43.6





#51
2-Hexanone
Concen: 13.005 ppbv
RT: 7.431 min Scan# 2269
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

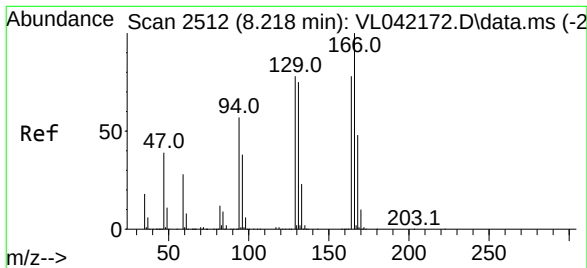
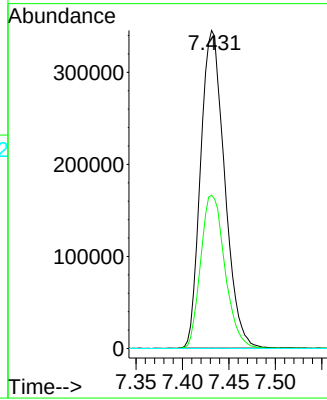
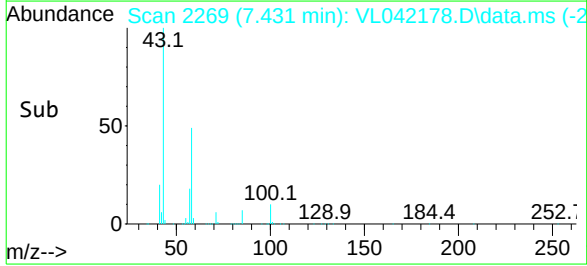
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015



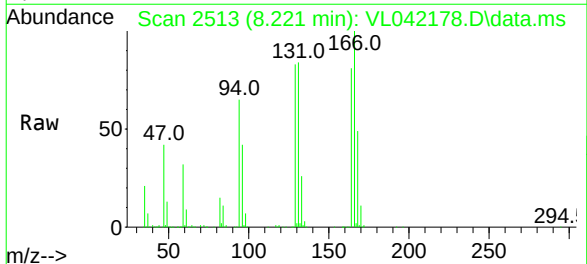
Tgt Ion: 43 Resp: 619419
Ion Ratio Lower Upper
43 100
58 49.0 39.7 59.5
98 0.0 0.1 0.1#

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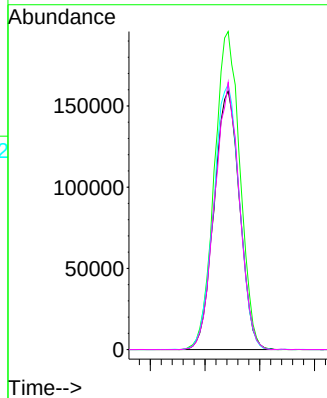
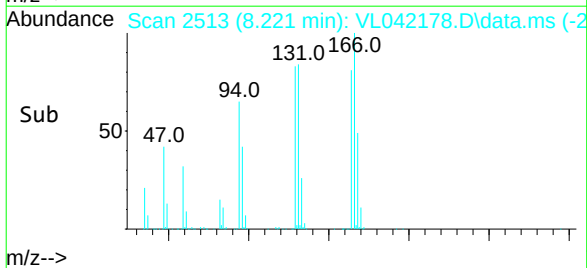
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025

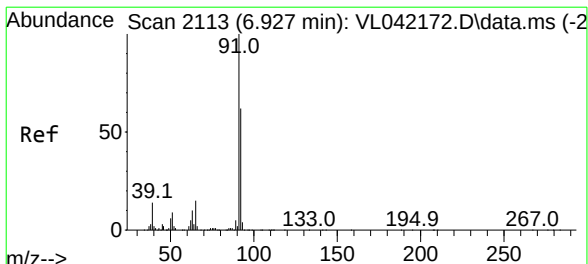


#52
Tetrachloroethene
Concen: 13.159 ppbv
RT: 8.221 min Scan# 2513
Delta R.T. 0.003 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36



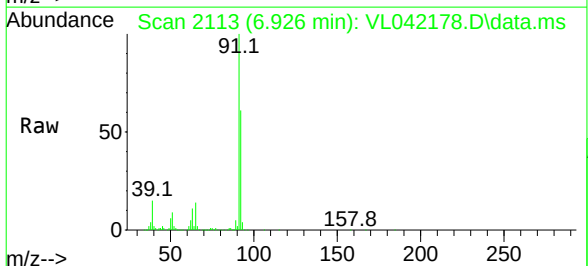
Tgt Ion:164 Resp: 258356
Ion Ratio Lower Upper
164 100
166 123.0 102.5 153.7
129 102.5 79.8 119.8
131 103.3 76.6 114.8





#53
Toluene
Concen: 14.137 ppbv
RT: 6.926 min Scan# 2113
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

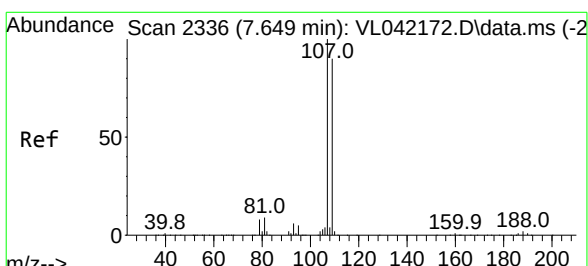
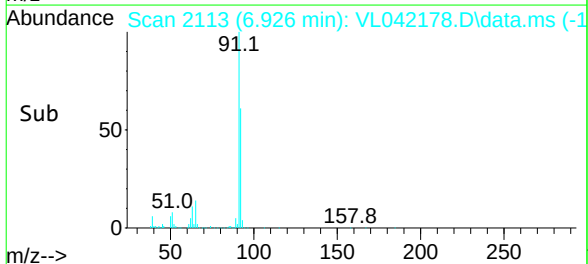
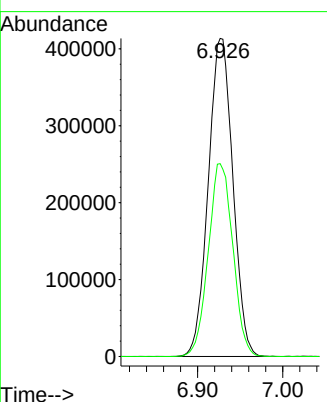
Instrument : MSVOA_L
ClientSampleId : VSTDIC015



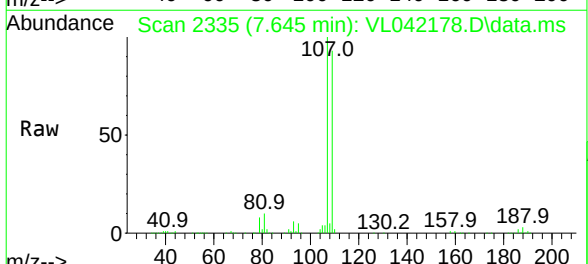
Tgt Ion: 91 Resp: 829648

Ion	Ratio	Lower	Upper
91	100		
92	60.6	48.4	72.6

Manual Integrations
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Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025

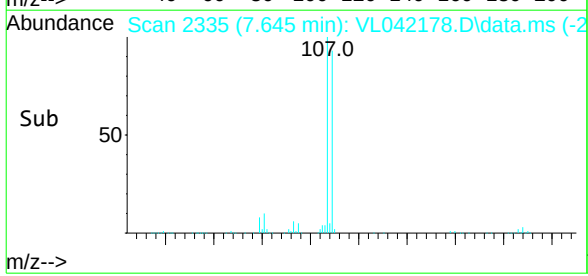
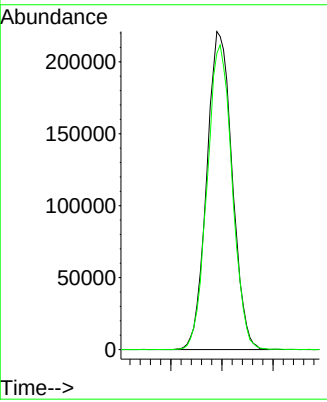


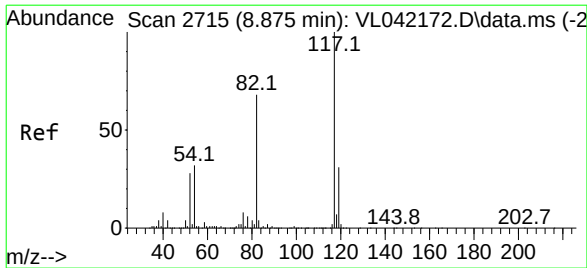
#54
1,2-Dibromoethane
Concen: 14.359 ppbv
RT: 7.645 min Scan# 2335
Delta R.T. -0.004 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36



Tgt Ion:107 Resp: 381823

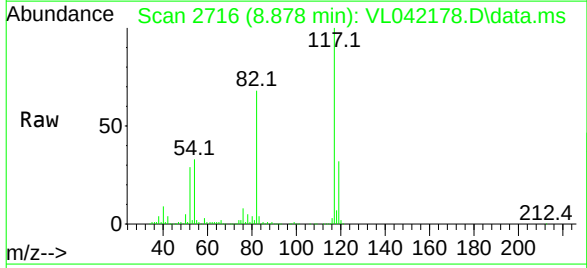
Ion	Ratio	Lower	Upper
107	100		
109	93.2	72.2	108.4





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.878 min Scan# 2715
Delta R.T. 0.003 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

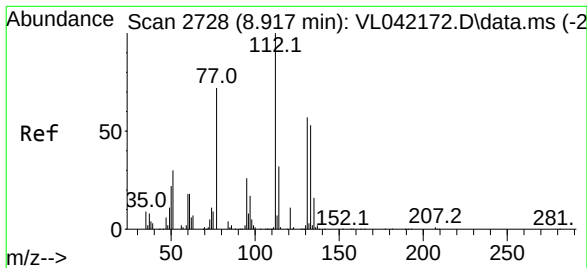
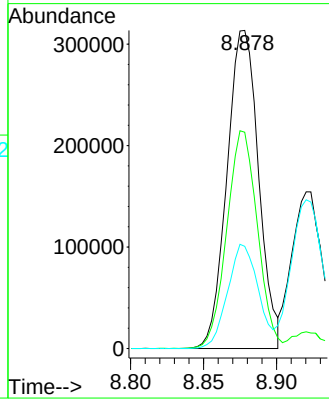
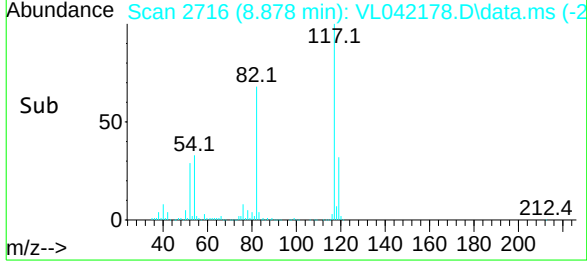
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015



Tgt Ion:117 Resp: 473077
Ion Ratio Lower Upper
117 100
82 71.4 55.8 83.6
119 31.7 25.5 38.3

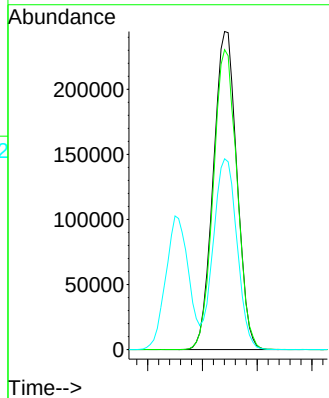
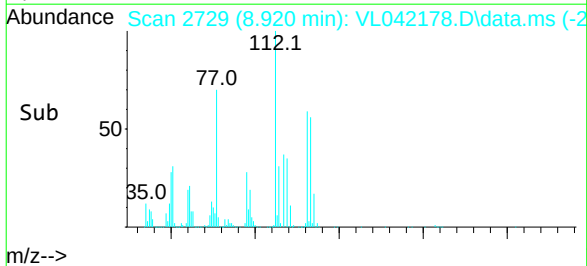
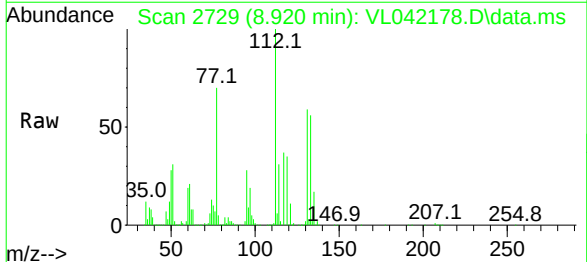
Manual Integrations
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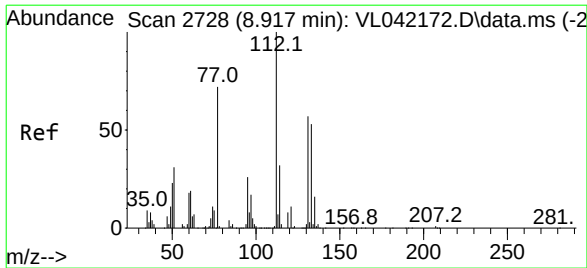
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#56
1,1,1,2-Tetrachloroethane
Concen: 14.032 ppbv
RT: 8.920 min Scan# 2729
Delta R.T. 0.003 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

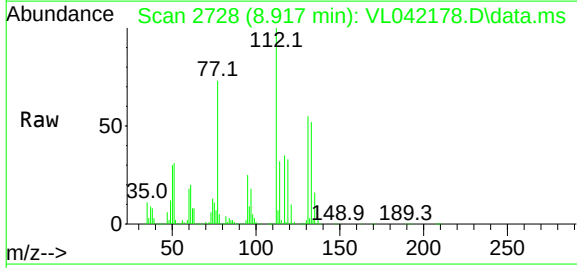
Tgt Ion:131 Resp: 365410
Ion Ratio Lower Upper
131 100
133 94.5 76.6 114.8
119 61.2 49.8 74.6





#57
Chlorobenzene
Concen: 13.777 ppbv
RT: 8.917 min Scan# 2728
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

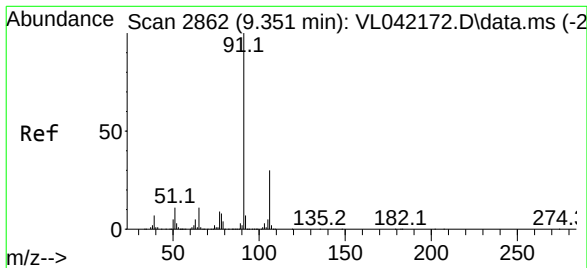
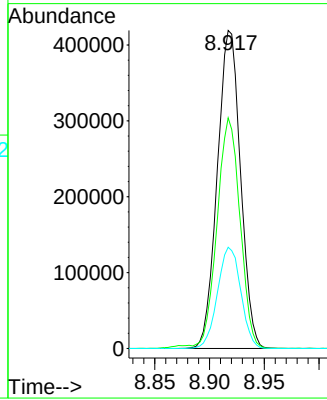
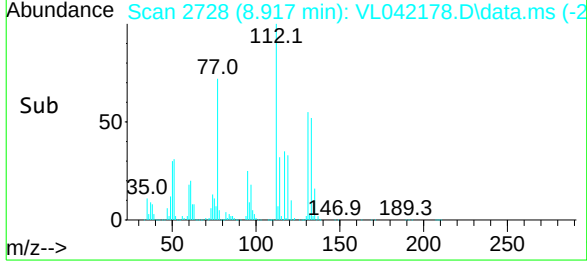
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015



Tgt Ion: 112 Resp: 618201
Ion Ratio Lower Upper
112 100
77 72.5 58.2 87.2
114 31.8 29.1 35.5

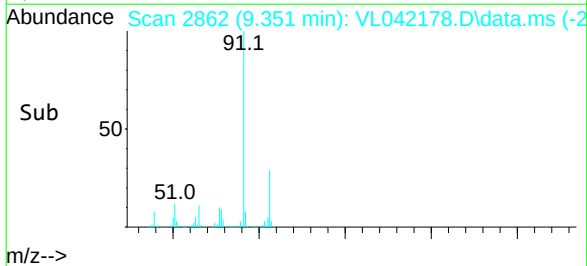
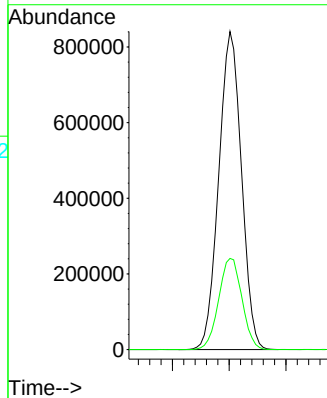
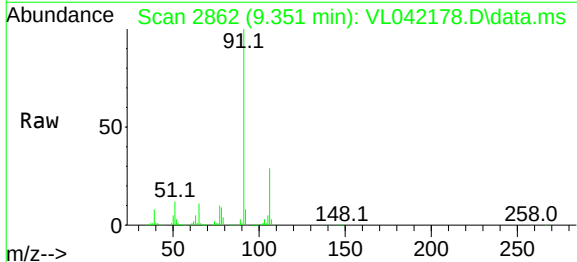
Manual Integrations
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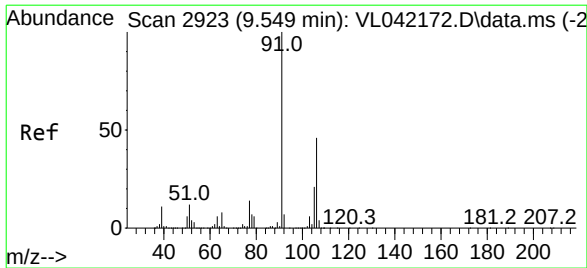
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#58
Ethyl Benzene
Concen: 13.889 ppbv
RT: 9.351 min Scan# 2862
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

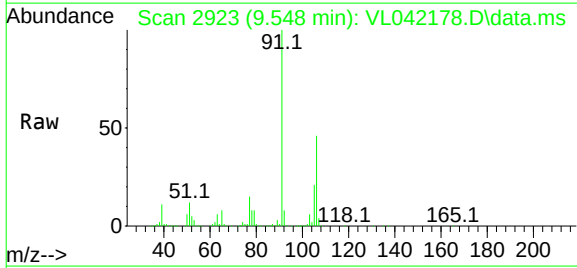
Tgt Ion: 91 Resp: 1167096
Ion Ratio Lower Upper
91 100
106 28.7 24.2 36.2





#59
m/p-Xylene
Concen: 27.651 ppbv m
RT: 9.548 min Scan# 29
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

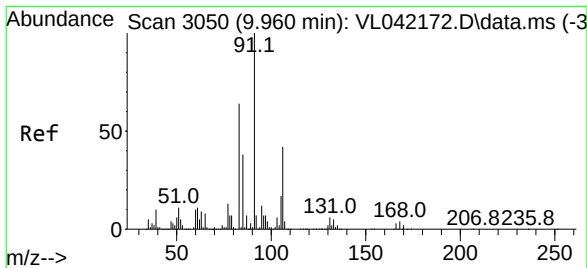
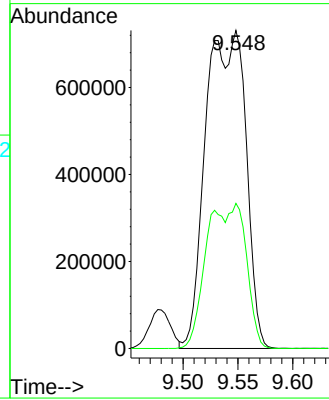
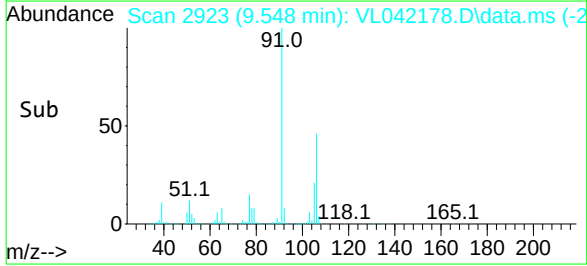
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015



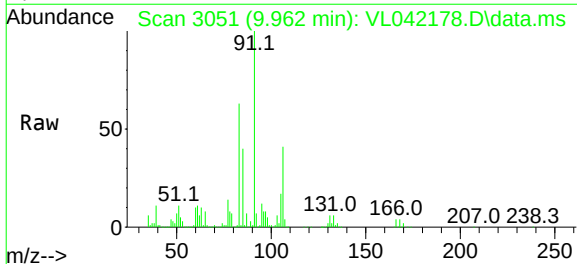
Tgt Ion: 91 Resp: 1857561
Ion Ratio Lower Upper
91 100
106 45.2 36.4 54.6

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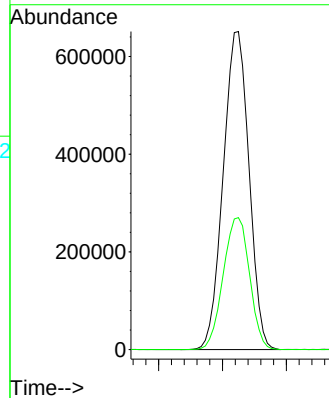
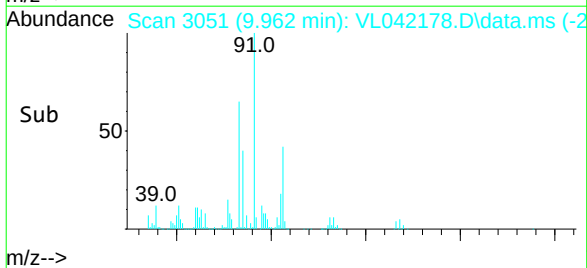
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025

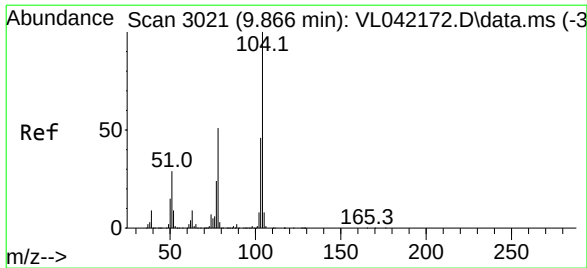


#60
o-Xylene
Concen: 13.577 ppbv
RT: 9.962 min Scan# 3051
Delta R.T. 0.003 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36



Tgt Ion: 91 Resp: 913234
Ion Ratio Lower Upper
91 100
106 42.4 20.8 62.5





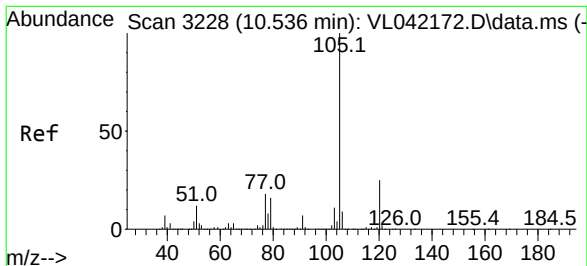
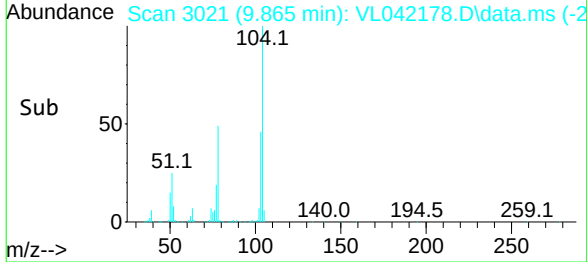
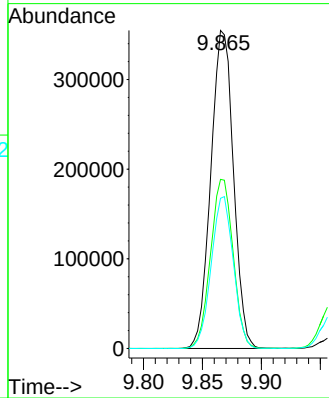
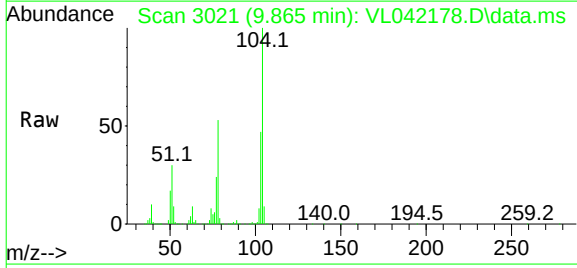
#61
Styrene
Concen: 14.250 ppbv
RT: 9.865 min Scan# 3021
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion:104 Resp: 474195
Ion Ratio Lower Upper
104 100
78 53.0 41.8 62.6
103 46.7 37.0 55.4

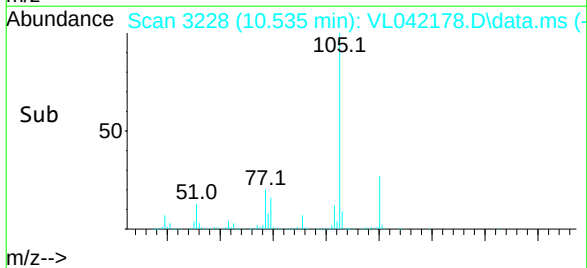
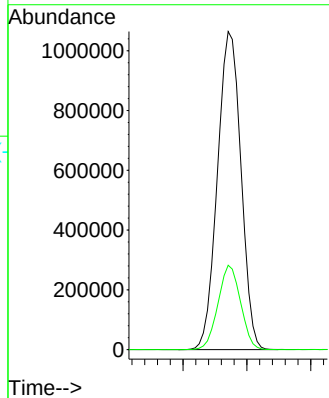
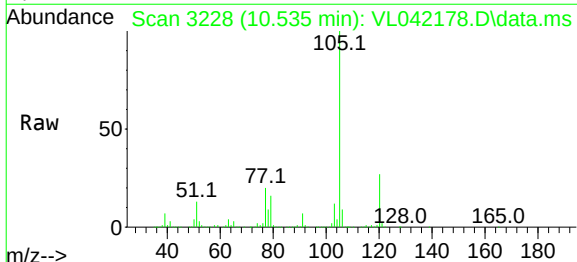
Manual Integrations
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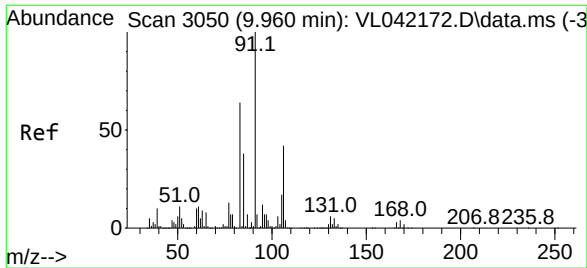
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#62
Isopropylbenzene
Concen: 13.544 ppbv
RT: 10.535 min Scan# 3228
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

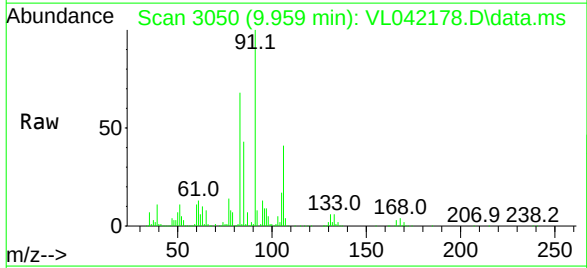
Tgt Ion:105 Resp: 1362416
Ion Ratio Lower Upper
105 100
120 25.3 19.9 29.9





#63
1,1,2,2-Tetrachloroethane
Concen: 13.491 ppbv
RT: 9.959 min Scan# 3050
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

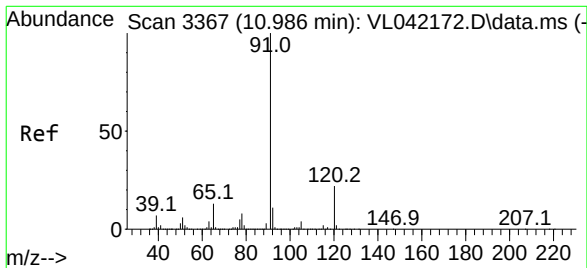
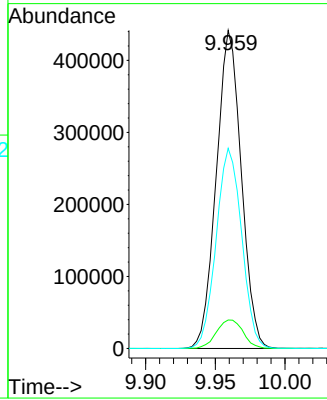
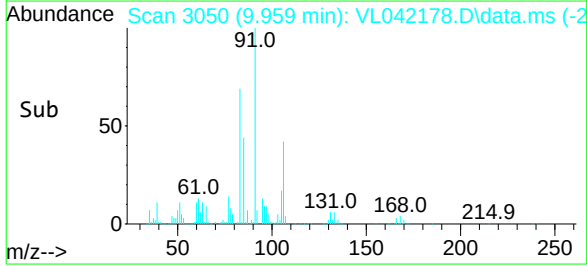
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015



Tgt Ion: 83 Resp: 551386
Ion Ratio Lower Upper
83 100
131 9.6 4.8 14.4
85 64.2 32.5 97.5

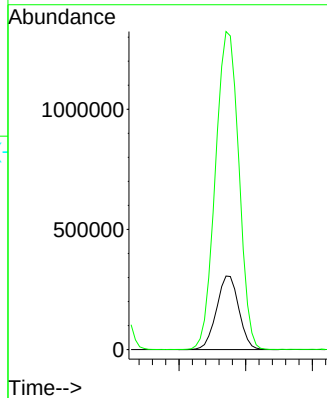
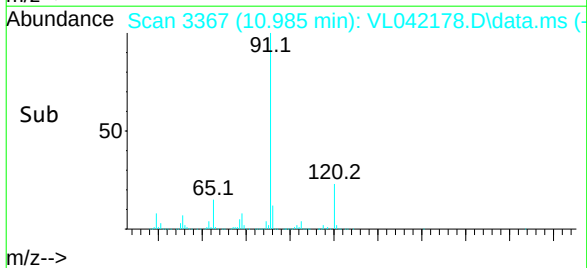
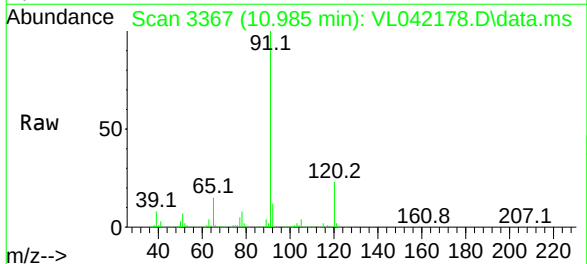
Manual Integrations
APPROVED

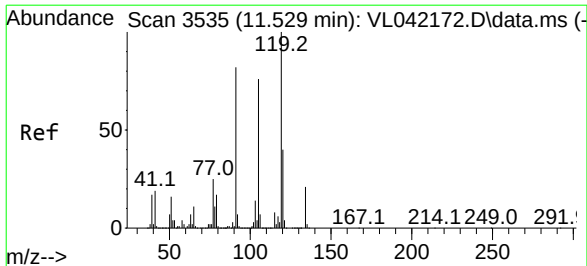
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#64
n-propylbenzene
Concen: 13.753 ppbv
RT: 10.985 min Scan# 3367
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

Tgt Ion:120 Resp: 356118
Ion Ratio Lower Upper
120 100
91 455.4 376.9 565.3





#65

tert-Butylbenzene

Concen: 12.901 ppbv

RT: 11.529 min Scan# 3535

Delta R.T. -0.000 min

Lab File: VL042178.D

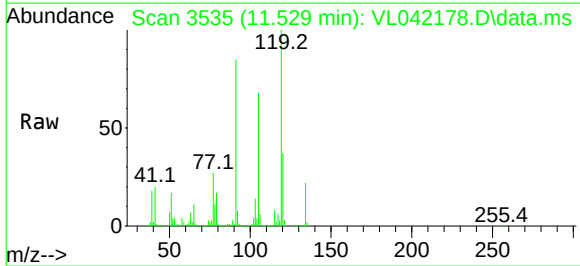
Acq: 27 Mar 2025 11:36

Instrument :

MSVOA_L

ClientSampleId :

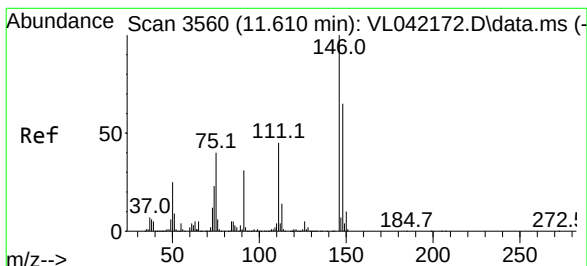
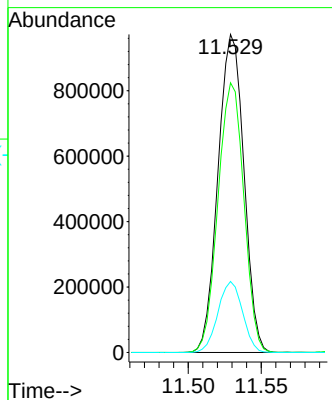
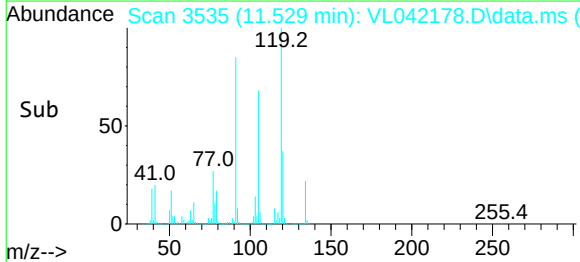
VSTDIC015



Tgt Ion:	119	Resp:	1200149
Ion	Ratio	Lower	Upper
119	100		
91	84.6	66.0	99.0
134	21.2	16.7	25.1

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#66

Benzyl Chloride

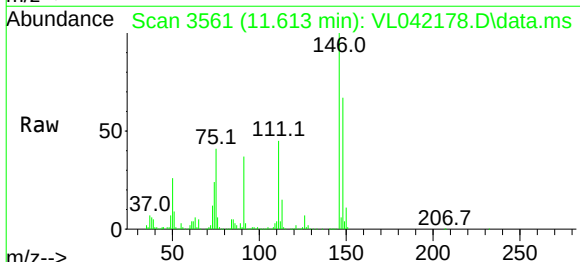
Concen: 13.615 ppbv

RT: 11.613 min Scan# 3561

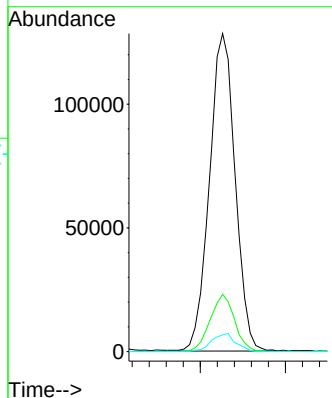
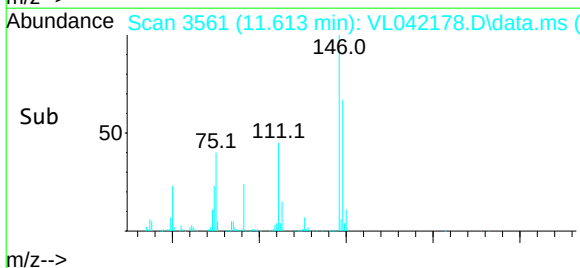
Delta R.T. 0.003 min

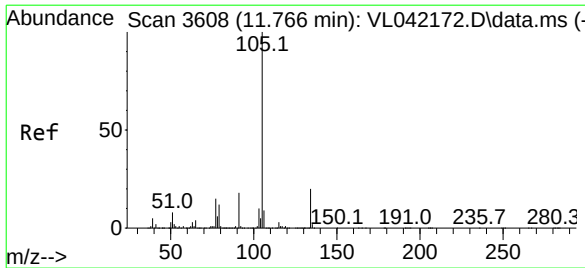
Lab File: VL042178.D

Acq: 27 Mar 2025 11:36



Tgt Ion:	91	Resp:	134397
Ion	Ratio	Lower	Upper
91	100		
126	17.3	13.8	20.6
128	5.4	4.5	6.7





#67

sec-Butylbenzene

Concen: 12.711 ppbv

RT: 11.765 min Scan# 3608

Delta R.T. -0.000 min

Lab File: VL042178.D

Acq: 27 Mar 2025 11:36

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tgt Ion:105 Resp: 1643629

Ion Ratio Lower Upper

105 100

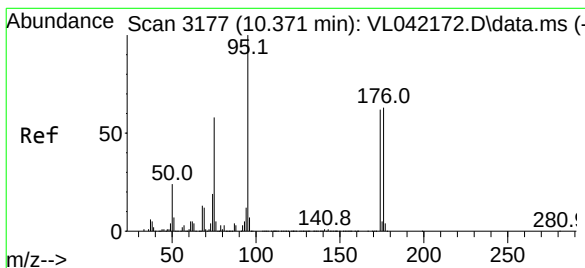
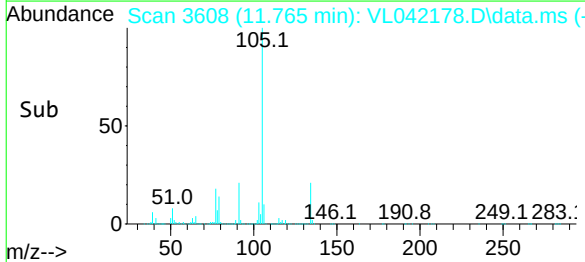
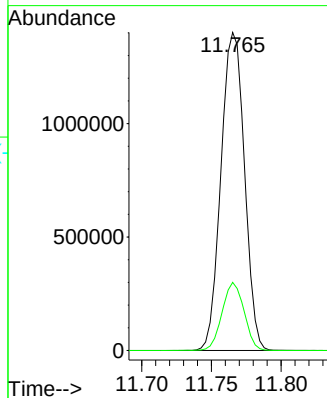
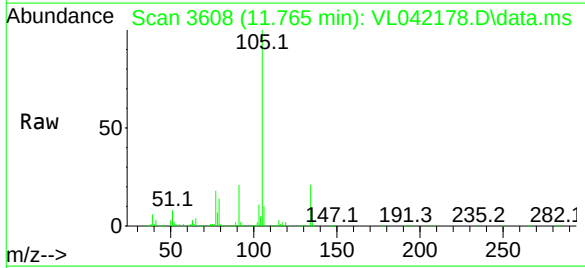
134 20.0 15.5 23.3

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 03/31/2025

Supervised By :Mahesh Dadoda 04/03/2025



#68

1-Bromo-4-Fluorobenzene

Concen: 9.981 ppbv

RT: 10.374 min Scan# 3178

Delta R.T. 0.003 min

Lab File: VL042178.D

Acq: 27 Mar 2025 11:36

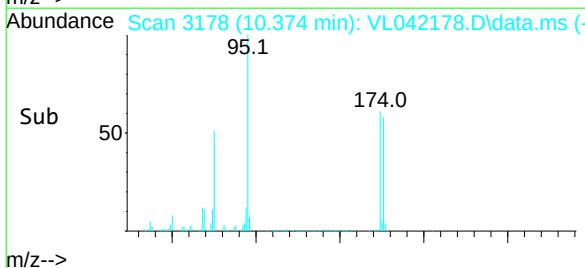
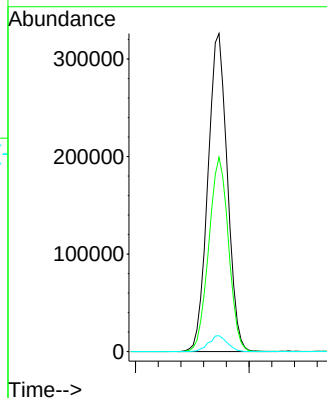
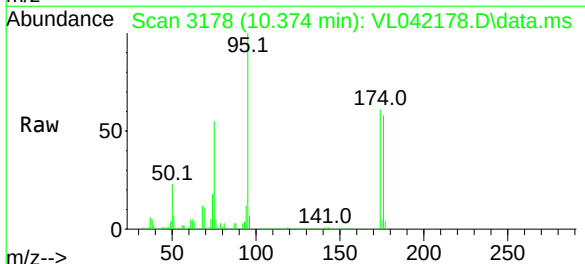
Tgt Ion: 95 Resp: 387777

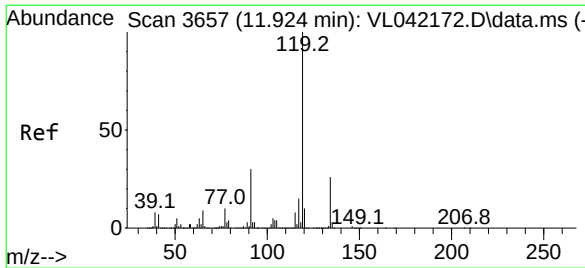
Ion Ratio Lower Upper

95 100

174 62.1 50.6 76.0

175 4.8 3.8 5.6





#69

p-Isopropyltoluene

Concen: 12.906 ppbv

RT: 11.924 min Scan# 3657

Delta R.T. -0.000 min

Lab File: VL042178.D

Acq: 27 Mar 2025 11:36

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tgt Ion: 119 Resp: 1437016

Ion Ratio Lower Upper

119 100

134 26.2 20.4 30.6

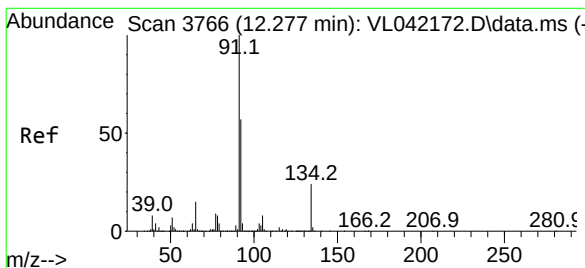
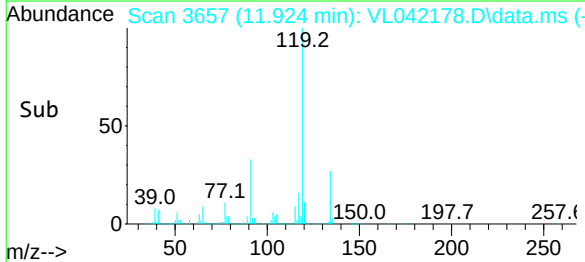
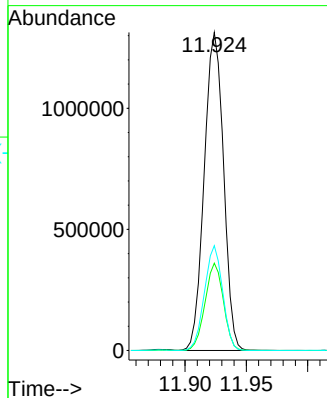
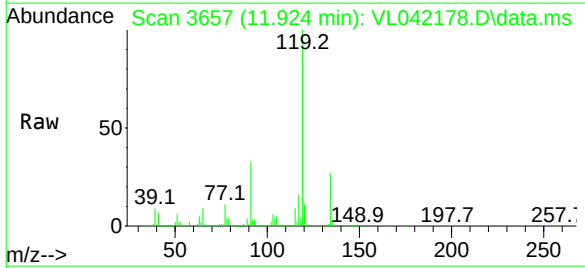
91 31.2 23.7 35.5

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 03/31/2025

Supervised By :Mahesh Dadoda 04/03/2025



#70

n-Butylbenzene

Concen: 12.975 ppbv

RT: 12.280 min Scan# 3767

Delta R.T. 0.003 min

Lab File: VL042178.D

Acq: 27 Mar 2025 11:36

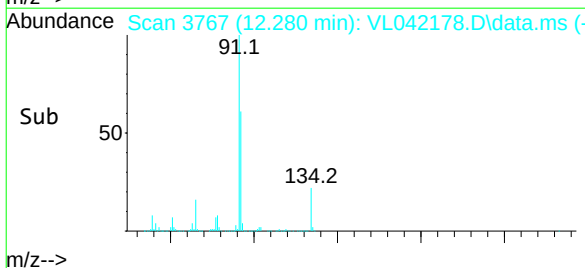
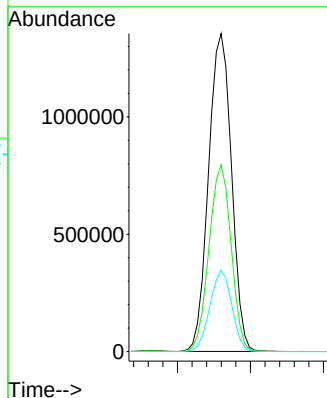
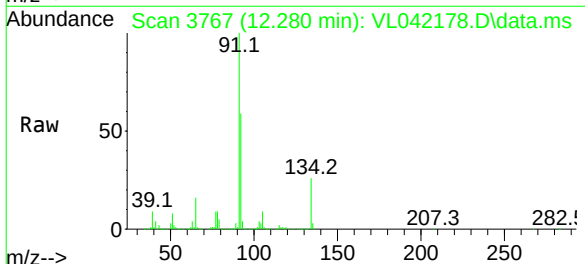
Tgt Ion: 91 Resp: 1477443

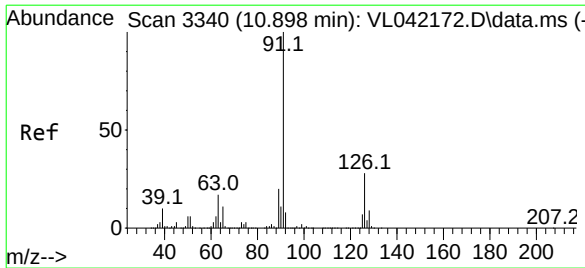
Ion Ratio Lower Upper

91 100

92 57.0 44.9 67.3

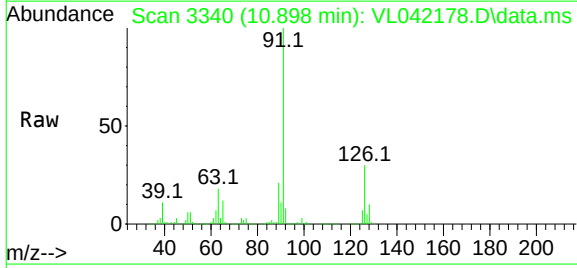
134 24.6 19.2 28.8





#71
2-Chlorotoluene
Concen: 13.724 ppbv
RT: 10.898 min Scan# 3340
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

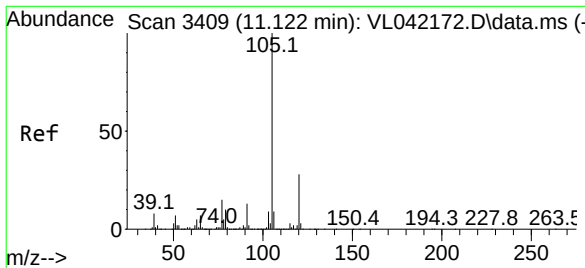
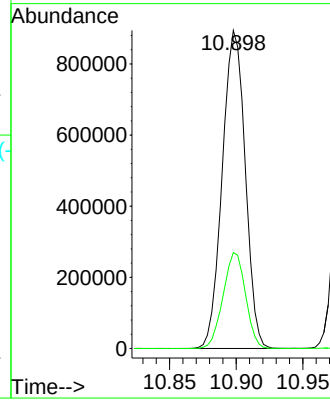
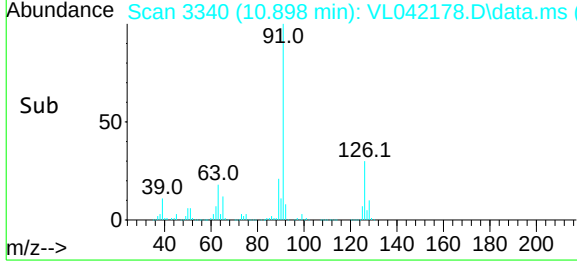
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015



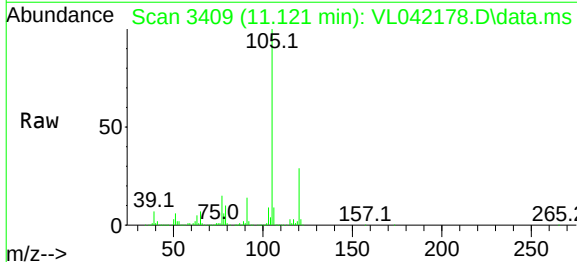
Tgt Ion: 91 Resp: 1071432
Ion Ratio Lower Upper
91 100
126 29.5 11.6 46.4

Manual Integrations
APPROVED

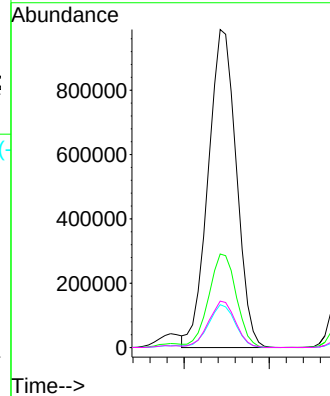
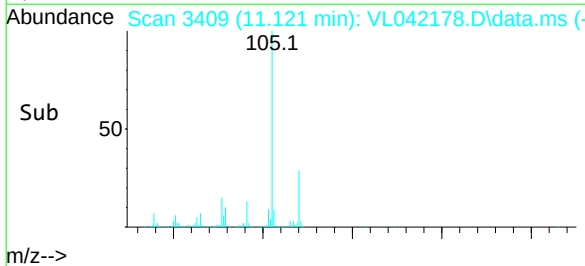
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025

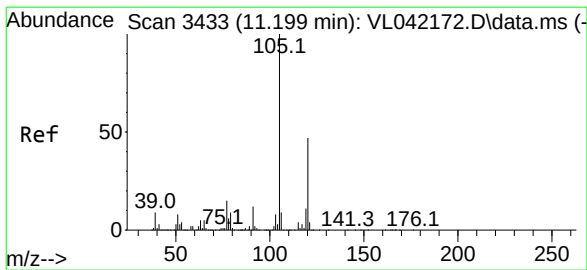


#72
4-Ethyltoluene
Concen: 13.569 ppbv
RT: 11.121 min Scan# 3409
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36



Tgt Ion:105 Resp: 1136415
Ion Ratio Lower Upper
105 100
120 30.1 23.4 35.0
91 13.5 10.3 15.5
77 14.6 11.4 17.2





#73

1,3,5-Trimethylbenzene

Concen: 13.395 ppbv

RT: 11.202 min Scan# 3433

Delta R.T. 0.003 min

Lab File: VL042178.D

Acq: 27 Mar 2025 11:36

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC015

Tgt Ion:105 Resp: 979783

Ion Ratio Lower Upper

105 100

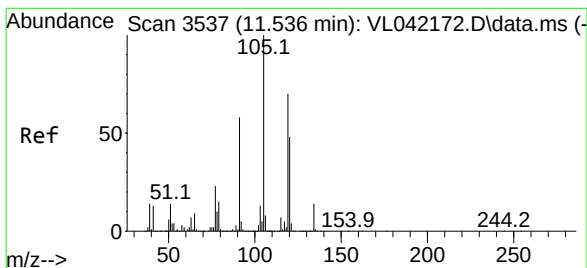
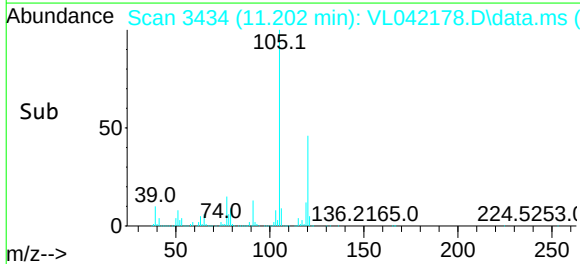
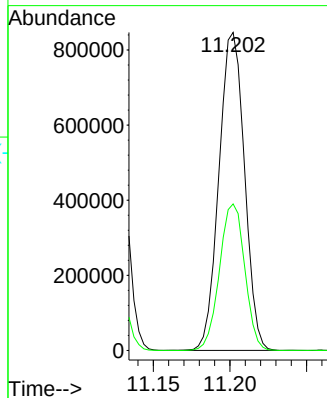
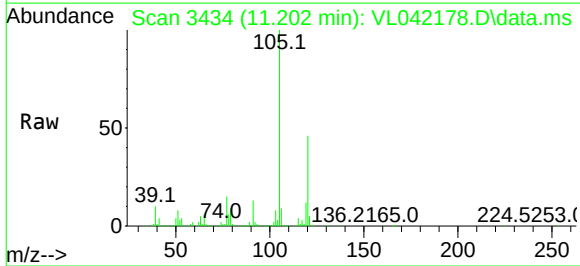
120 46.1 37.4 56.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 03/31/2025

Supervised By :Mahesh Dadoda 04/03/2025



#74

1,2,4-Trimethylbenzene

Concen: 12.447 ppbv

RT: 11.535 min Scan# 3537

Delta R.T. -0.000 min

Lab File: VL042178.D

Acq: 27 Mar 2025 11:36

Tgt Ion:105 Resp: 1048874

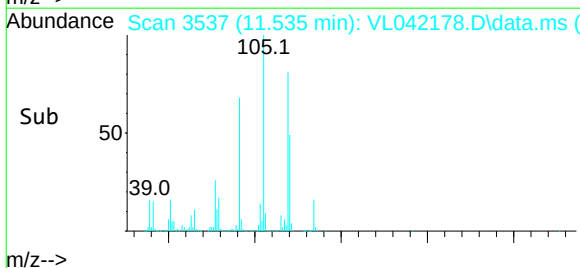
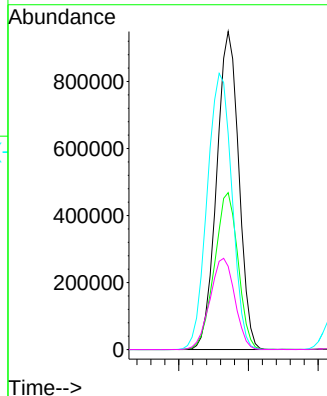
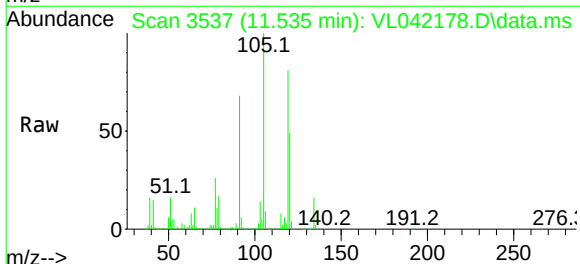
Ion Ratio Lower Upper

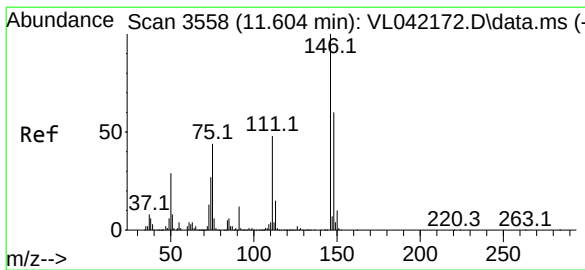
105 100

120 49.3 38.6 58.0

91 67.8 46.2 69.2

77 26.2 18.6 27.8





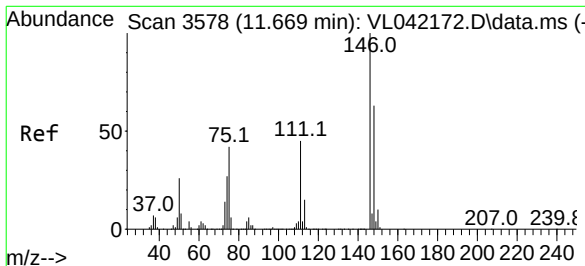
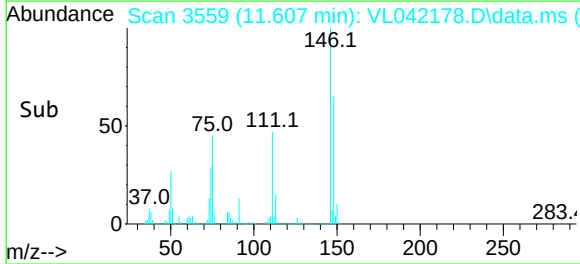
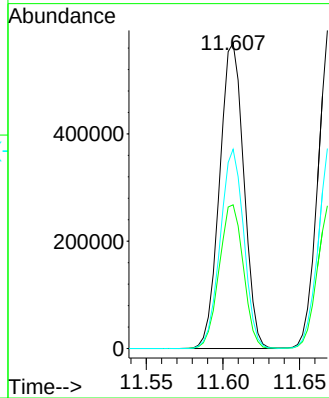
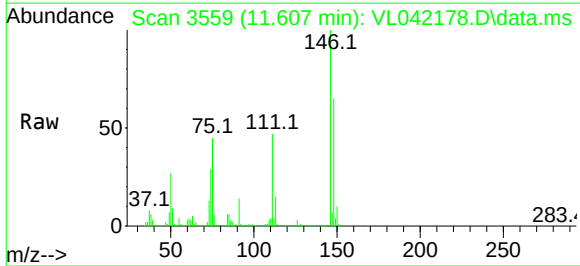
#75
1,3-Dichlorobenzene
Concen: 13.545 ppbv
RT: 11.607 min Scan# 3558
Delta R.T. 0.003 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion:	146	Resp:	626015
Ion Ratio	Lower	Upper	
146	100		
111	47.0	23.8	71.2
148	63.5	31.9	95.9

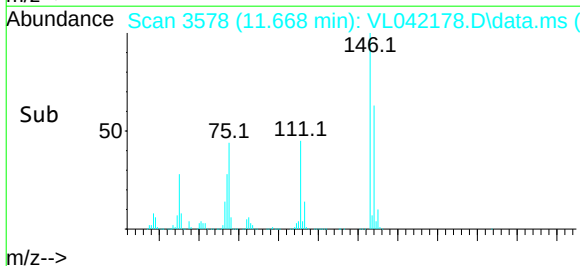
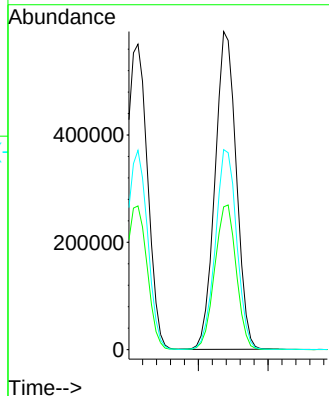
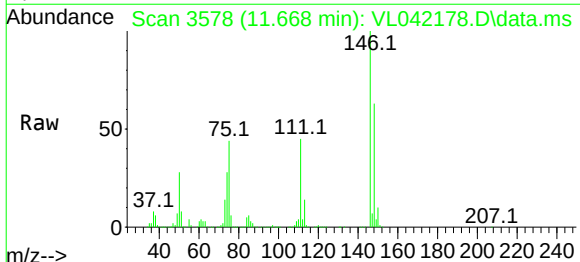
Manual Integrations
APPROVED

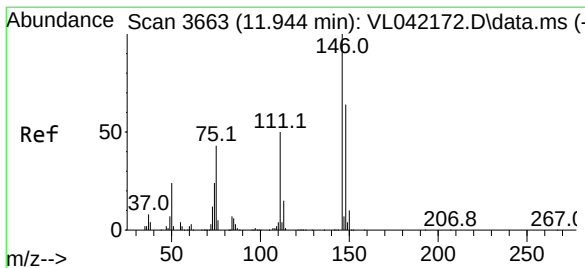
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#76
1,4-Dichlorobenzene
Concen: 13.668 ppbv
RT: 11.668 min Scan# 3578
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

Tgt Ion:	146	Resp:	628694
Ion Ratio	Lower	Upper	
146	100		
111	46.1	23.0	69.0
148	63.6	31.9	95.7





#77

1,2-Dichlorobenzene

Concen: 13.396 ppbv

RT: 11.947 min Scan# 3663

Delta R.T. 0.003 min

Lab File: VL042178.D

Acq: 27 Mar 2025 11:36

Instrument :

MSVOA_L

ClientSampleId :

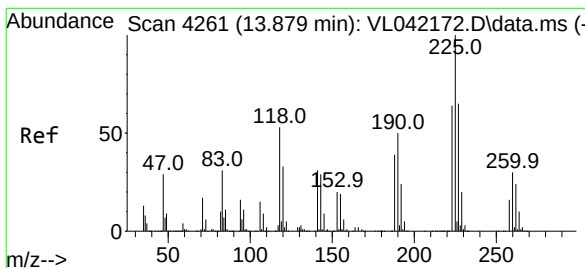
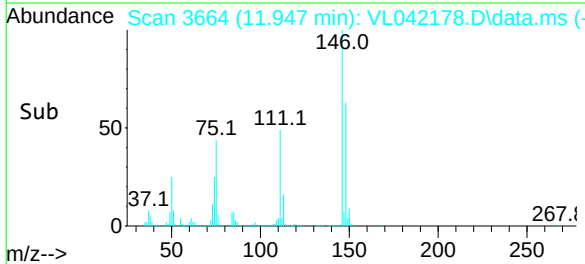
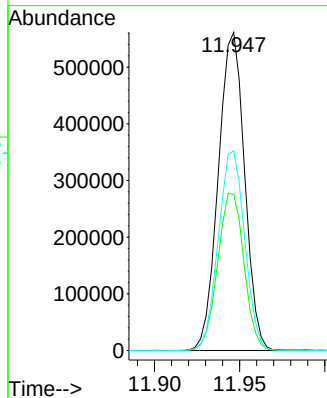
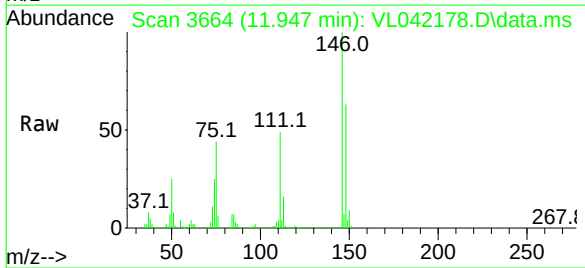
VSTDIC015

Tgt Ion:	146	Resp:	602844
Ion Ratio	Lower	Upper	
146	100		
111	49.7	24.8	74.3
148	63.3	31.6	94.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#78

Hexachloro-1,3-Butadiene

Concen: 12.147 ppbv

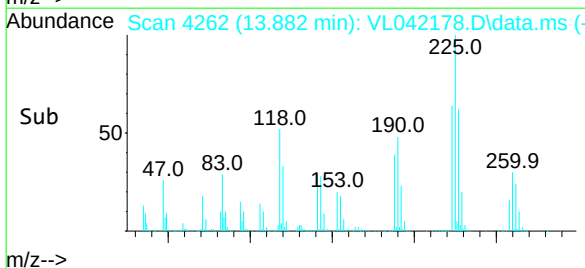
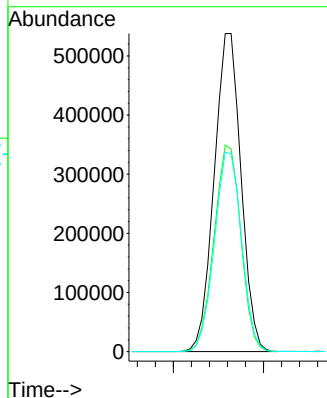
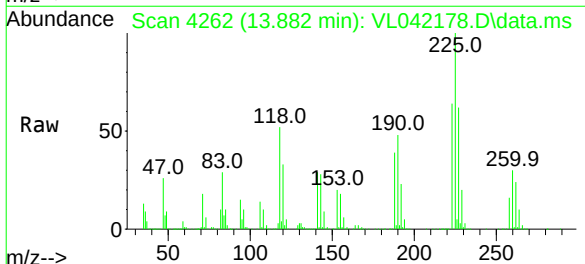
RT: 13.882 min Scan# 4262

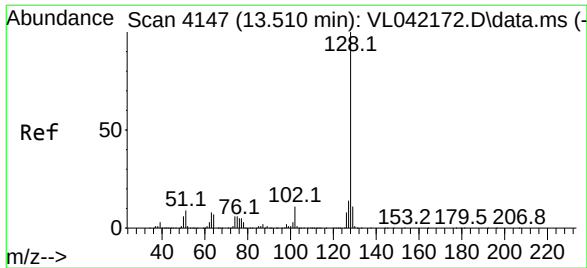
Delta R.T. 0.003 min

Lab File: VL042178.D

Acq: 27 Mar 2025 11:36

Tgt Ion:	225	Resp:	556392
Ion Ratio	Lower	Upper	
225	100		
223	64.7	50.6	76.0
227	63.3	51.2	76.8





#79

Naphthalene

Concen: 13.653 ppbv

RT: 13.513 min Scan# 4147

Delta R.T. 0.003 min

Lab File: VL042178.D

Acq: 27 Mar 2025 11:36

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC015

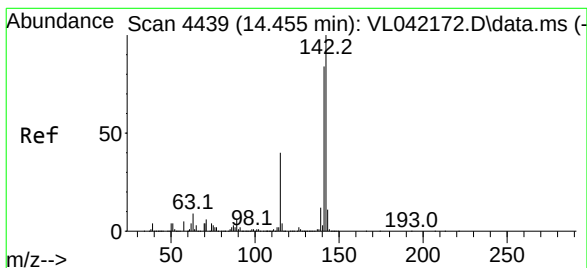
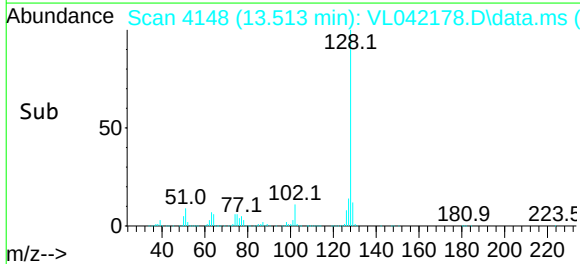
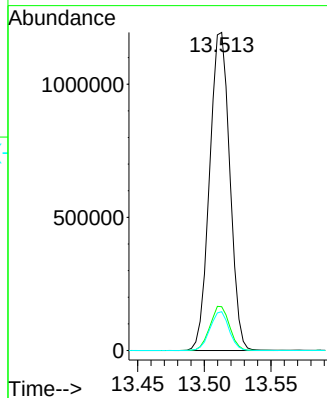
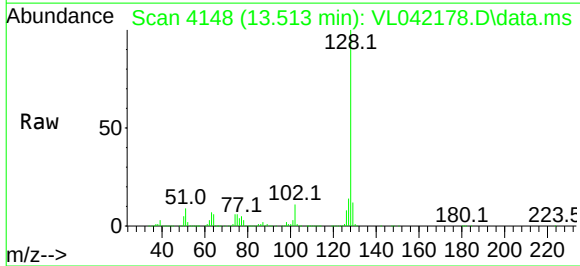
Tgt Ion:128 Resp: 1258479

Ion	Ratio	Lower	Upper
128	100		
127	13.8	10.8	16.2
129	12.2	9.0	13.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#80

Naphthalene,2-methyl-

Concen: 16.018 ppbv

RT: 14.455 min Scan# 4439

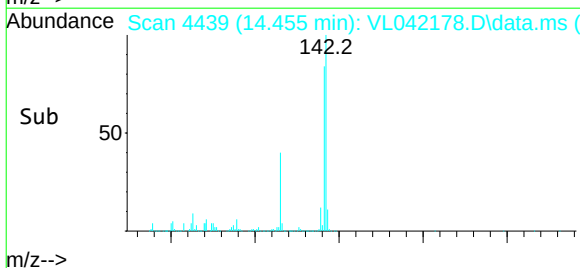
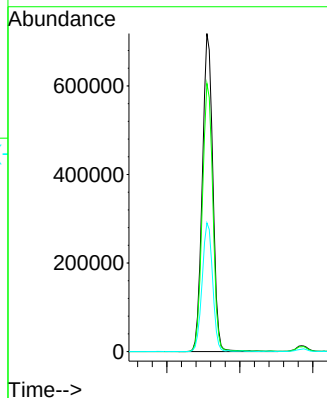
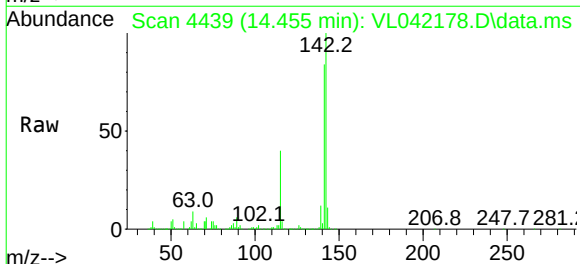
Delta R.T. -0.000 min

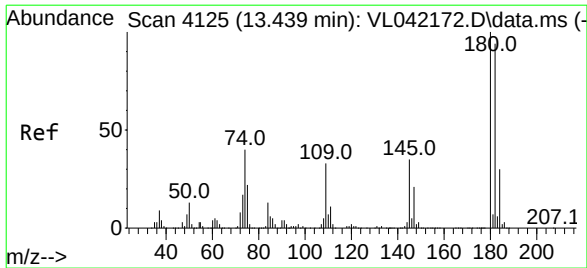
Lab File: VL042178.D

Acq: 27 Mar 2025 11:36

Tgt Ion:142 Resp: 718900

Ion	Ratio	Lower	Upper
142	100		
141	84.3	66.3	99.5
115	40.6	31.6	47.4





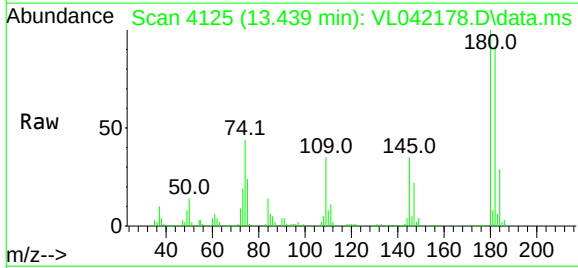
#81
1,2,4-Trichlorobenzene
Concen: 14.075 ppbv
RT: 13.439 min Scan# 41
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

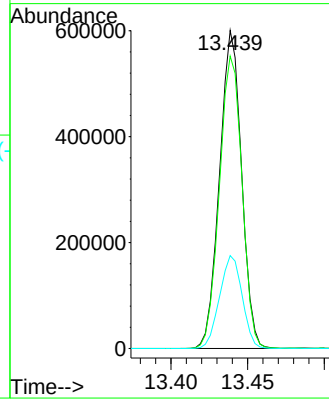
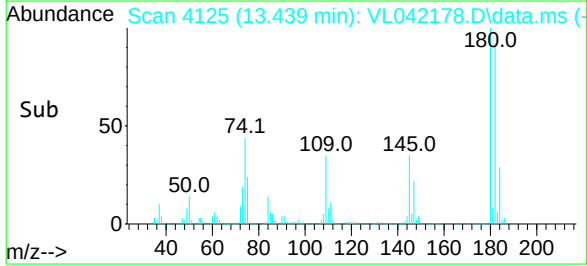


Tgt Ion:180 Resp: 598416
Ion Ratio Lower Upper
180 100
182 94.7 75.1 112.7
184 30.1 24.4 36.6

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
 Data File : VL042179.D
 Acq On : 27 Mar 2025 12:23
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL032725

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 03/31/2025
 Supervised By :Mahesh Dadoda 04/03/2025

Quant Time: Mar 28 02:05:15 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M

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

QLast Update : Fri Mar 28 02:00:52 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.784	49	174350	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.952	114	498105	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.878	117	473357	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.374 95 379929 9.774 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 97.700%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.496	85	245714	9.545	ppbv	100
3) Chlorodifluoromethane	1.473	51	247046	9.394	ppbv	97
4) Chloromethane	1.531	50	98527	9.365	ppbv	98
5) Vinyl Chloride	1.577	62	95578	8.573	ppbv	97
6) Bromomethane	1.667	94	41950	8.799	ppbv	97
7) Chloroethane	1.703	64	37400	8.856	ppbv	94
8) Dichlorotetrafluoroethane	1.551	85	213819	9.753	ppbv	95
9) Propene	1.483	41	105338	8.739	ppbv	99
10) Heptane	4.972	43	298768	9.318	ppbv	100
11) Trichlorofluoromethane	1.874	101	236793	9.453	ppbv	97
12) 1,1,2-Trichlorotrifluo...	2.136	101	193965	9.421	ppbv	98
13) Ethanol	1.719	45	5773	5.066	ppbv	97
14) Bromoethene	1.780	108	73572	9.328	ppbv	97
15) Acetone	1.832	43	198300	8.132	ppbv	98
16) 1,3-Butadiene	1.606	39	97840	8.216	ppbv	99
17) tert-Butyl alcohol	2.039	59	276195	9.094	ppbv	99
18) 1,1-Dichloroethene	2.033	96	87137	9.053	ppbv	89
19) Isopropyl Alcohol	1.884	45	122768	8.923	ppbv	98
20) Methylene Chloride	2.059	84	72813	8.018	ppbv	97
21) Allyl Chloride	2.094	41	157418	9.154	ppbv	99
22) trans-1,2-Dichloroethene	2.337	96	101141	9.092	ppbv	93
23) Vinyl Acetate	2.460	43	90260	8.553	ppbv #	97
24) 1,1-Dichloroethane	2.405	63	197968	9.600	ppbv	99
25) Ethyl Acetate	2.832	43	592585	9.364	ppbv	99
26) Hexane	2.823	57	231125	9.455	ppbv	99
27) Carbon Disulfide	2.146	76	248834	9.493	ppbv	97
28) Methyl tert-Butyl Ether	2.437	73	146470	9.624	ppbv	95
29) Chloroform	2.845	83	344106	9.619	ppbv	100
30) Cyclohexane	3.852	84	197897	9.323	ppbv	98
31) cis-1,2-Dichloroethene	2.719	61	234487	9.449	ppbv	96
32) 1,1,1-Trichloroethane	3.363	97	365364	8.921	ppbv	99
34) 2-Butanone	2.554	43	331236	9.171	ppbv	99
35) Carbon Tetrachloride	3.758	117	363392	9.339	ppbv	98
36) Benzene	3.651	78	461261	9.341	ppbv	99
37) 1,2-Dichloroethane	3.217	62	273559	9.676	ppbv	99
38) Trichloroethene	4.541	130	191746	9.306	ppbv	97
39) 1,2-Dichloropropane	4.311	63	170839	9.500	ppbv	95
40) 1,4-Dioxane	4.577	88	80592	8.443	ppbv #	97
41) Tetrahydrofuran	3.052	42	196163	9.431	ppbv	99
42) Bromodichloromethane	4.486	83	384006	9.853	ppbv	100
43) Methyl Methacrylate	4.878	69	195339	9.344	ppbv	99
44) 2,2,4-Trimethylpentane	4.635	57	787400	9.436	ppbv	99
45) t-1,3-Dichloropropene	6.409	75	212335	9.467	ppbv	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
 Data File : VL042179.D
 Acq On : 27 Mar 2025 12:23
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICSVVL032725

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 03/31/2025
 Supervised By : Mahesh Dadoda 04/03/2025

Quant Time: Mar 28 02:05:15 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M

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

QLast Update : Fri Mar 28 02:00:52 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.593	75	265101	9.643	ppbv	98
47) 1,1,2-Trichloroethane	6.577	97	183228	9.638	ppbv	98
48) Dibromochloromethane	7.383	129	322766	10.018	ppbv	100
49) Bromoform	9.480	173	285149	9.858	ppbv	99
50) 4-Methyl-2-Pentanone	5.749	43	500791	8.749	ppbv	99
51) 2-Hexanone	7.432	43	410889	8.741	ppbv #	99
52) Tetrachloroethene	8.221	164	173420	8.855	ppbv	93
53) Toluene	6.927	91	556897	9.514	ppbv	99
54) 1,2-Dibromoethane	7.645	107	256930	9.695	ppbv	98
56) 1,1,1,2-Tetrachloroethane	8.920	131	249270	9.567	ppbv	99
57) Chlorobenzene	8.917	112	422531	9.411	ppbv	98
58) Ethyl Benzene	9.351	91	791360	9.412	ppbv	98
59) m/p-Xylene	9.548	91	1260340m	18.772	ppbv	
60) o-Xylene	9.959	91	632918	9.404	ppbv	99
61) Styrene	9.866	104	315910	9.488	ppbv	99
62) Isopropylbenzene	10.539	105	944938	9.388	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.959	83	382635	9.357	ppbv	99
64) n-propylbenzene	10.985	120	244547	9.439	ppbv	98
65) tert-Butylbenzene	11.529	119	843828	9.065	ppbv	98
66) Benzyl Chloride	11.613	91	86804	8.789	ppbv	97
67) sec-Butylbenzene	11.765	105	1172636	9.063	ppbv	100
69) p-Isopropyltoluene	11.924	119	1019694	9.153	ppbv	100
70) n-Butylbenzene	12.280	91	1038548	9.115	ppbv	100
71) 2-Chlorotoluene	10.898	91	732874	9.382	ppbv	100
72) 4-Ethyltoluene	11.125	105	785185	9.370	ppbv	99
73) 1,3,5-Trimethylbenzene	11.202	105	673541	9.203	ppbv	98
74) 1,2,4-Trimethylbenzene	11.536	105	729155	8.648	ppbv	94
75) 1,3-Dichlorobenzene	11.607	146	426573	9.224	ppbv	99
76) 1,4-Dichlorobenzene	11.672	146	426318	9.263	ppbv	100
77) 1,2-Dichlorobenzene	11.947	146	412180	9.154	ppbv	99
78) Hexachloro-1,3-Butadiene	13.882	225	356386	7.776	ppbv	100
79) Naphthalene	13.513	128	773311	8.385	ppbv	99
80) Naphthalene,2-methyl-	14.455	142	323443	7.151	ppbv	99
81) 1,2,4-Trichlorobenzene	13.439	180	363863	8.553	ppbv	98

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

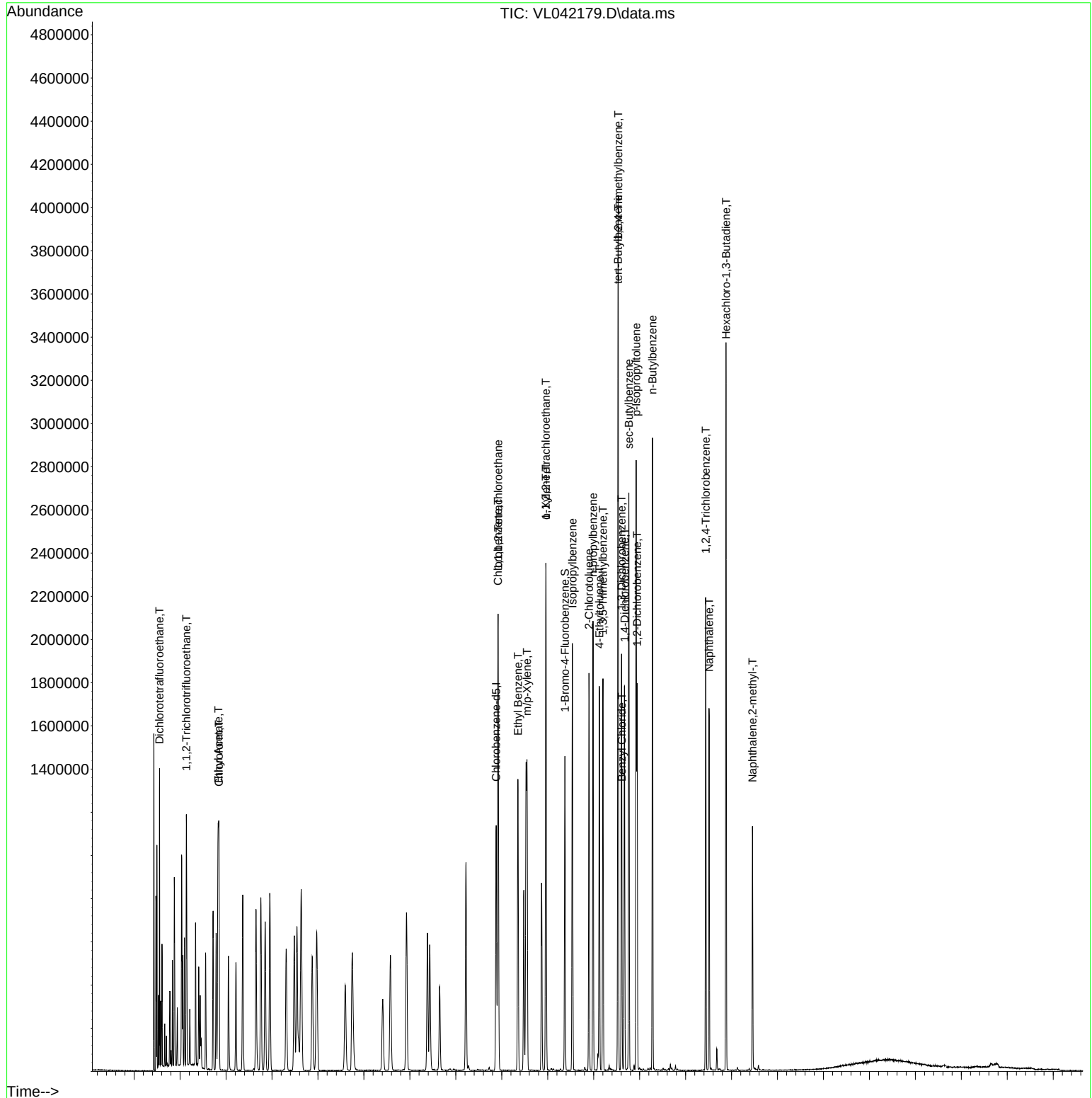
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Acq On : 27 Mar 2025 12:23
Operator : SY/MD
Sample : VSTDICV010
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

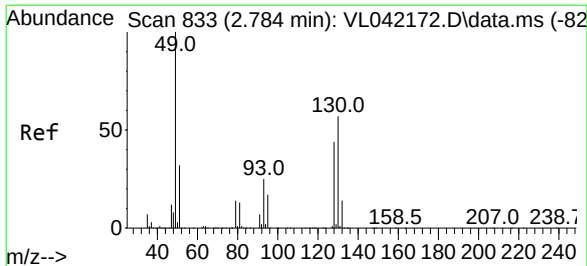
Instrument :
MSVOA_L
ClientSampleId :
ICVVL032725

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025

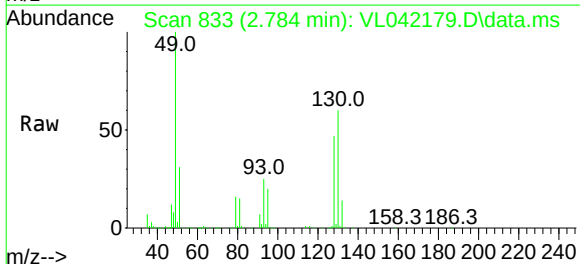
Quant Time: Mar 28 02:05:15 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Fri Mar 28 02:00:52 2025
Response via : Initial Calibration





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 833
Delta R.T. -0.000 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

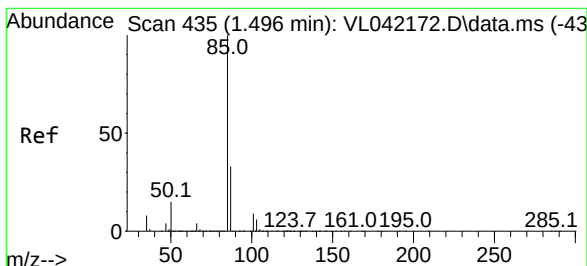
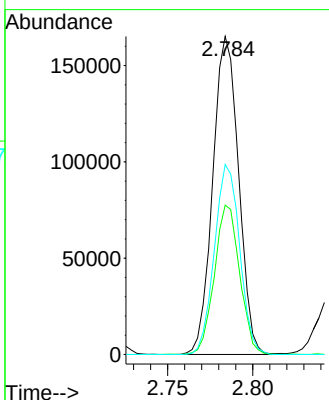
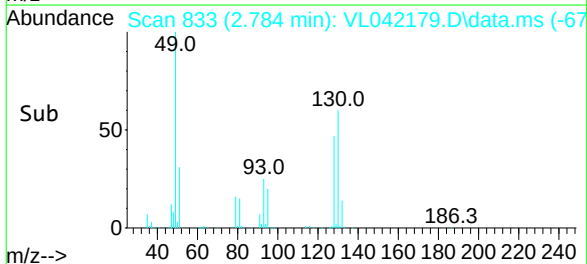
Instrument : MSVOA_L
ClientSampleId : ICVVL032725



Tgt Ion: 49 Resp: 174356
Ion Ratio Lower Upper
49 100
128 45.8 22.9 68.5
130 58.4 28.8 86.4

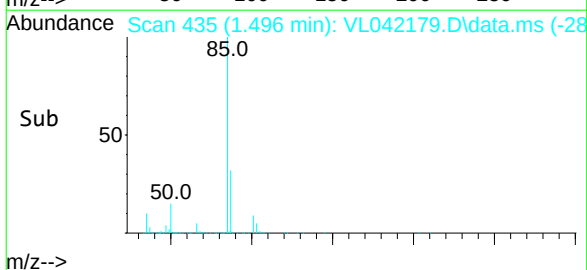
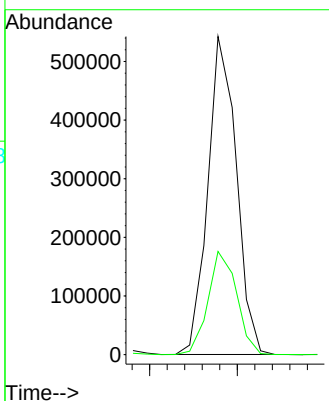
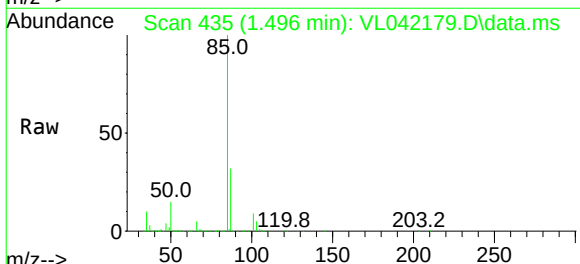
Manual Integrations
APPROVED

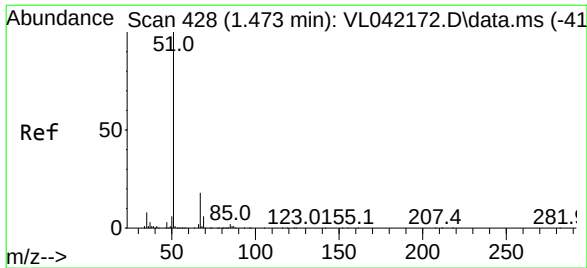
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#2
Dichlorodifluoromethane
Concen: 9.545 ppbv
RT: 1.496 min Scan# 435
Delta R.T. -0.000 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

Tgt Ion: 85 Resp: 245714
Ion Ratio Lower Upper
85 100
87 32.4 26.1 39.1





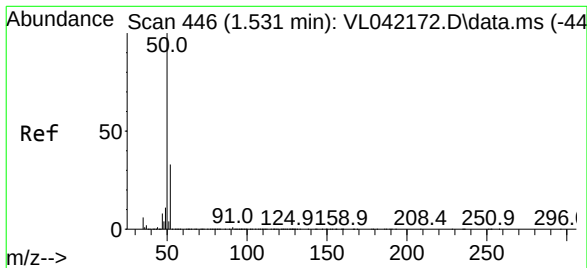
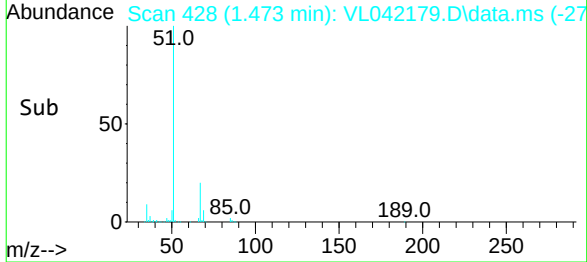
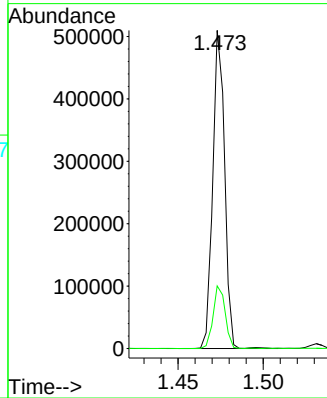
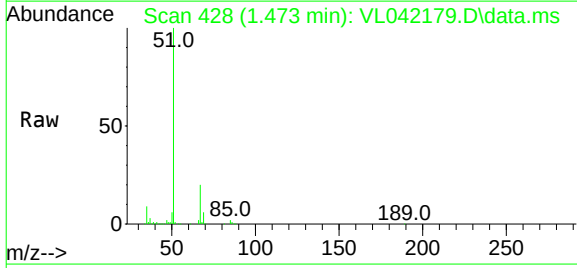
#3
Chlorodifluoromethane
Concen: 9.394 ppbv
RT: 1.473 min Scan# 428
Delta R.T. -0.000 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

Instrument : MSVOA_L
ClientSampleId : ICVVL032725

Tgt Ion: 51 Resp: 247046
Ion Ratio Lower Upper
51 100
67 20.1 15.0 22.6

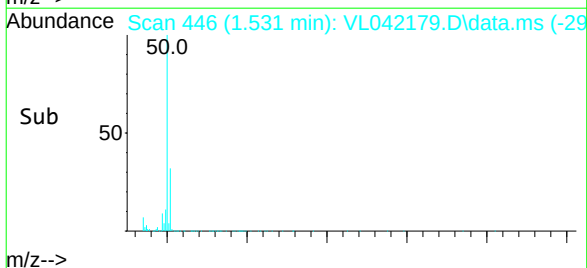
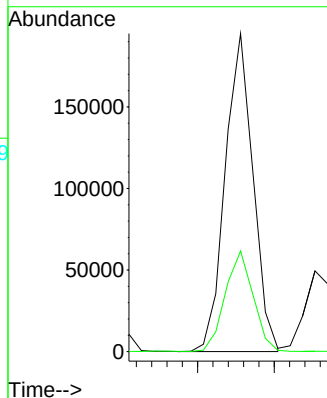
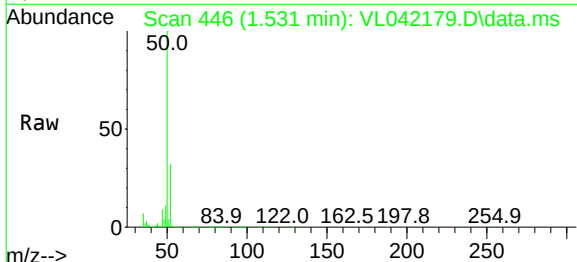
Manual Integrations
APPROVED

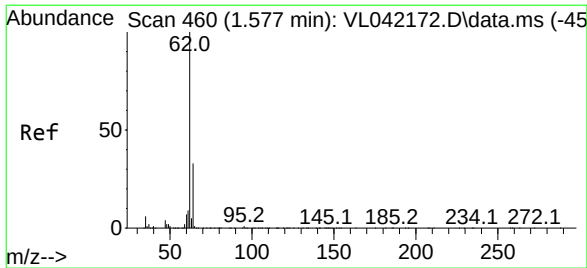
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#4
Chloromethane
Concen: 9.365 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

Tgt Ion: 50 Resp: 98527
Ion Ratio Lower Upper
50 100
52 31.6 26.1 39.1





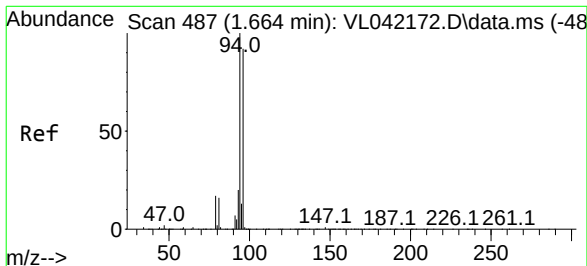
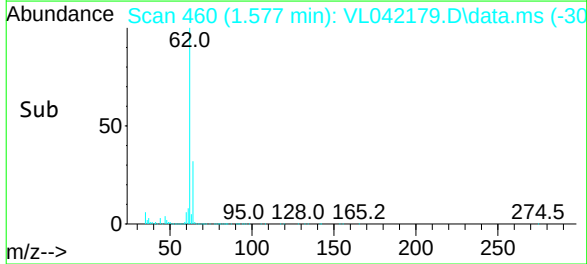
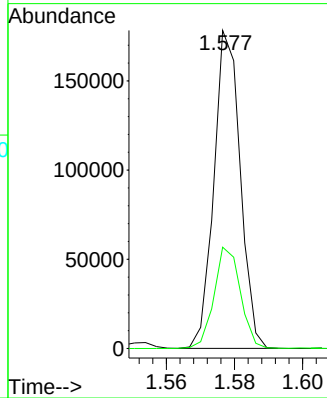
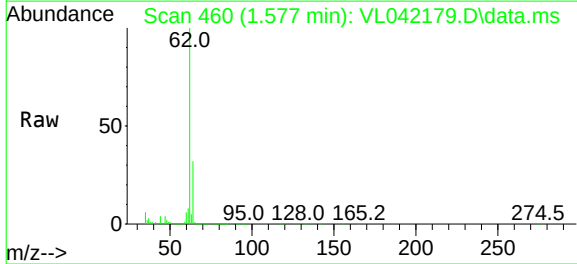
#5
 Vinyl Chloride
 Concen: 8.573 ppbv
 RT: 1.577 min Scan# 460
 Delta R.T. -0.000 min
 Lab File: VL042179.D
 Acq: 27 Mar 2025 12:23

Instrument : MSVOA_1
 ClientSampleId : ICVVL032725

Tgt Ion: 62 Resp: 95578
 Ion Ratio Lower Upper
 62 100
 64 31.8 26.6 40.0

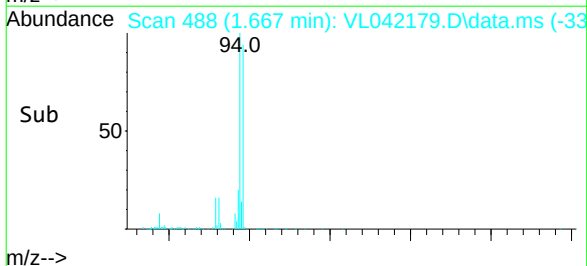
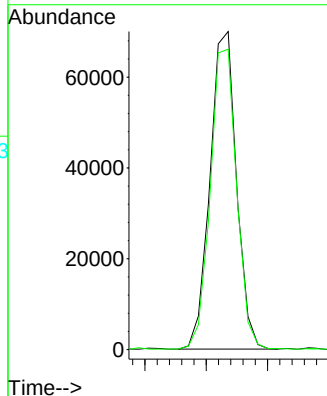
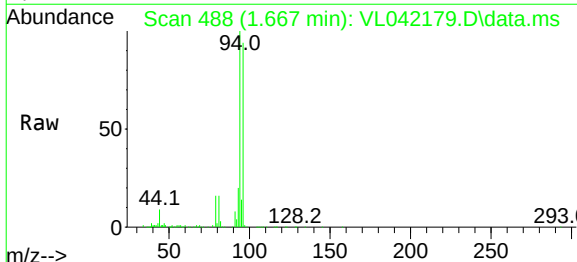
Manual Integrations
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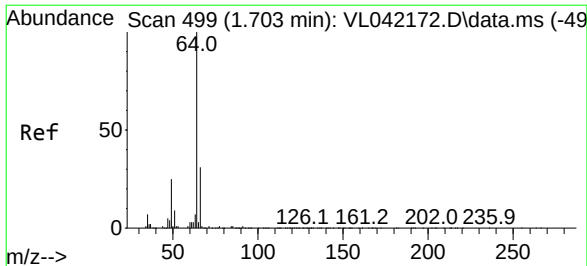
Reviewed By :Semsettin Yesilyurt 03/31/2025
 Supervised By :Mahesh Dadoda 04/03/2025



#6
 Bromomethane
 Concen: 8.799 ppbv
 RT: 1.667 min Scan# 488
 Delta R.T. 0.003 min
 Lab File: VL042179.D
 Acq: 27 Mar 2025 12:23

Tgt Ion: 94 Resp: 41950
 Ion Ratio Lower Upper
 94 100
 96 94.4 73.1 109.7





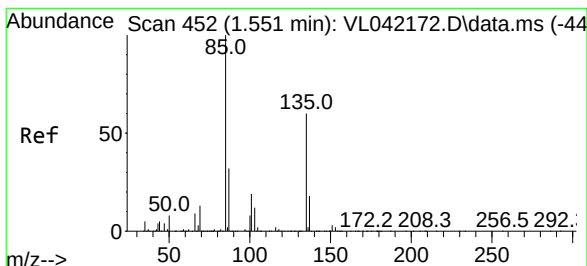
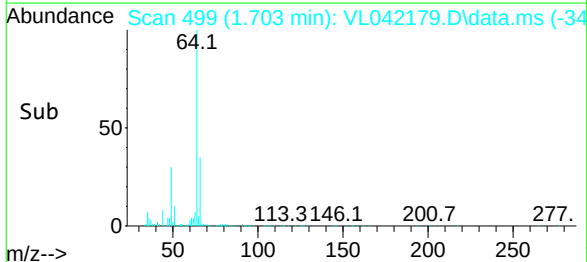
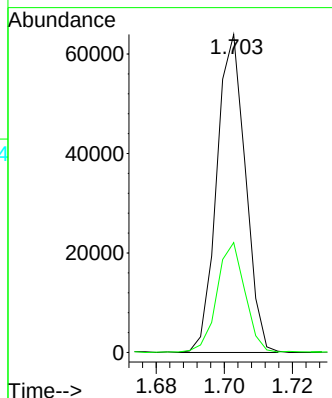
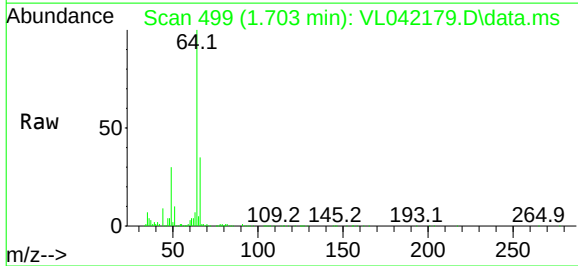
#7
Chloroethane
Concen: 8.856 ppbv
RT: 1.703 min Scan# 499
Delta R.T. -0.000 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

Instrument : MSVOA_L
ClientSampleId : ICVVL032725

Tgt Ion: 64 Resp: 37400
Ion Ratio Lower Upper
64 100
66 34.5 25.2 37.8

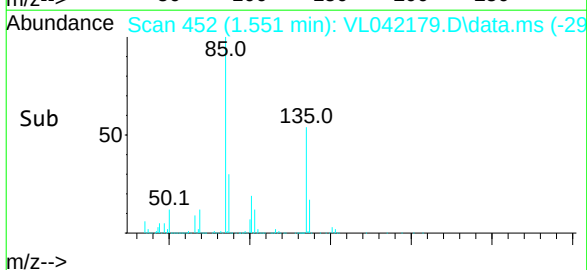
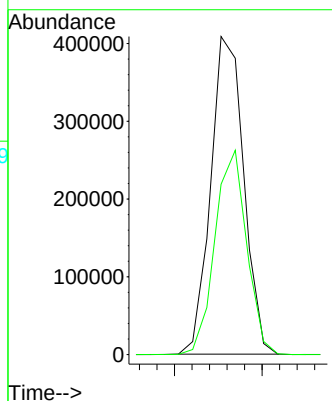
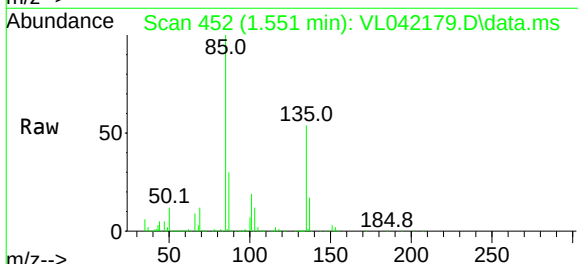
Manual Integrations
APPROVED

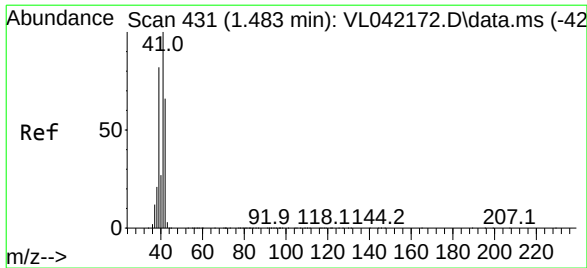
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#8
Dichlorotetrafluoroethane
Concen: 9.753 ppbv
RT: 1.551 min Scan# 452
Delta R.T. -0.000 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

Tgt Ion: 85 Resp: 213819
Ion Ratio Lower Upper
85 100
135 61.9 52.4 78.6





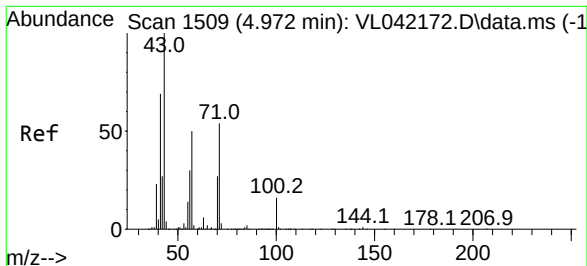
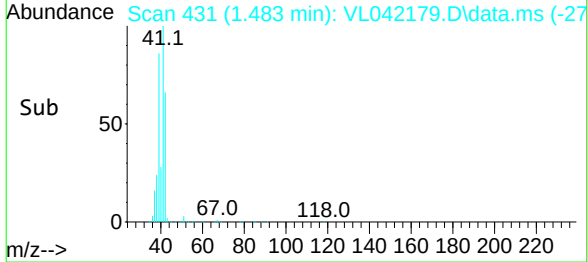
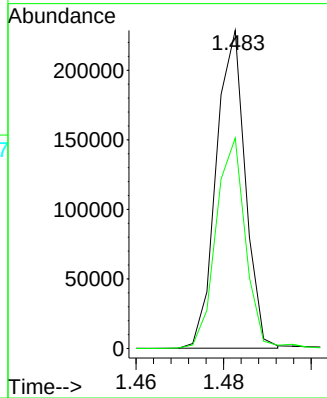
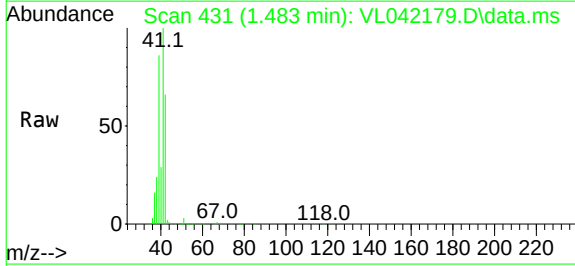
#9
 Propene
 Concen: 8.739 ppbv
 RT: 1.483 min Scan# 431
 Delta R.T. -0.000 min
 Lab File: VL042179.D
 Acq: 27 Mar 2025 12:23

Instrument : MSVOA_L
 ClientSampleId : ICVVL032725

Tgt Ion: 41 Resp: 105338
 Ion Ratio Lower Upper
 41 100
 42 68.1 55.4 83.2

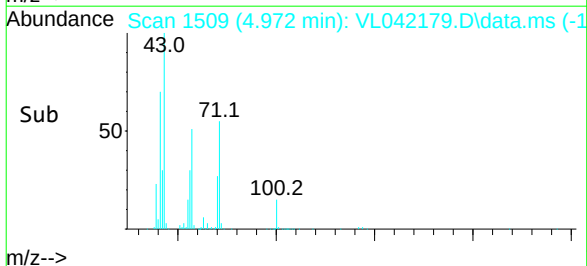
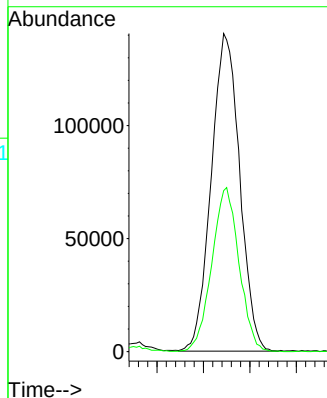
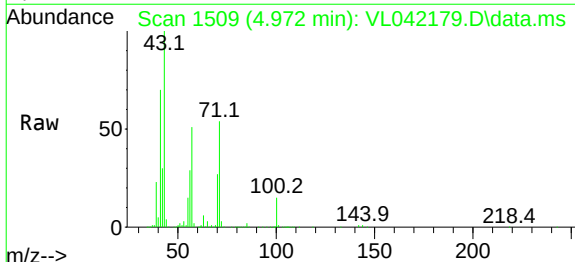
Manual Integrations APPROVED

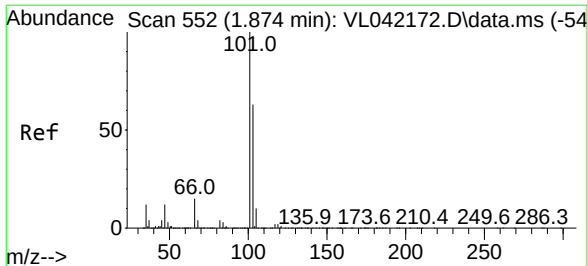
Reviewed By :Semsettin Yesilyurt 03/31/2025
 Supervised By :Mahesh Dadoda 04/03/2025



#10
 Heptane
 Concen: 9.318 ppbv
 RT: 4.972 min Scan# 1509
 Delta R.T. -0.000 min
 Lab File: VL042179.D
 Acq: 27 Mar 2025 12:23

Tgt Ion: 43 Resp: 298768
 Ion Ratio Lower Upper
 43 100
 57 49.5 39.4 59.2





#11

Trichlorofluoromethane

Concen: 9.453 ppbv

RT: 1.874 min Scan# 552

Delta R.T. -0.000 min

Lab File: VL042179.D

Acq: 27 Mar 2025 12:23

Instrument :

MSVOA_L

ClientSampleId :

ICVVL032725

Tgt Ion:101 Resp: 236793

Ion Ratio Lower Upper

101 100

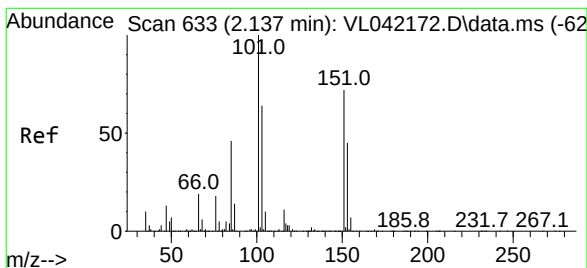
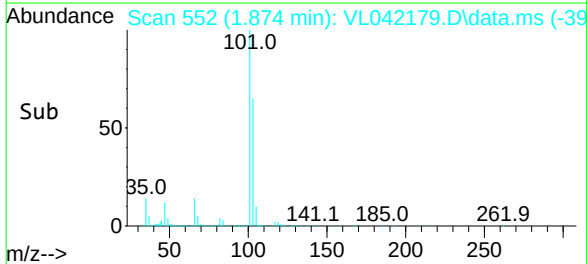
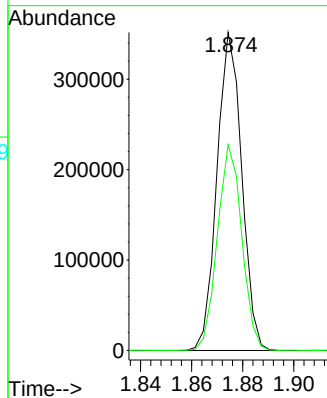
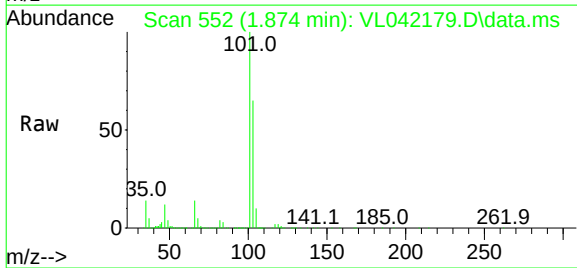
103 64.7 50.2 75.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 03/31/2025

Supervised By :Mahesh Dadoda 04/03/2025



#12

1,1,2-Trichlorotrifluoroethane

Concen: 9.421 ppbv

RT: 2.136 min Scan# 633

Delta R.T. -0.000 min

Lab File: VL042179.D

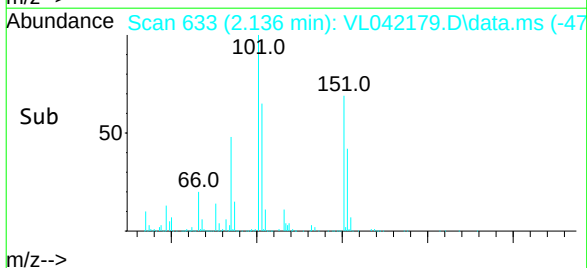
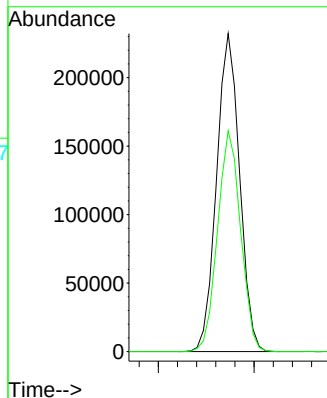
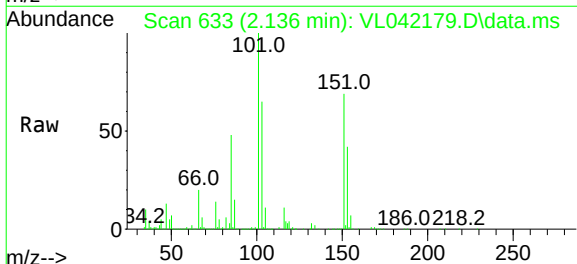
Acq: 27 Mar 2025 12:23

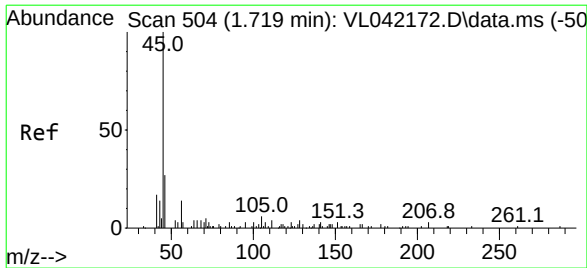
Tgt Ion:101 Resp: 193965

Ion Ratio Lower Upper

101 100

151 69.6 57.1 85.7





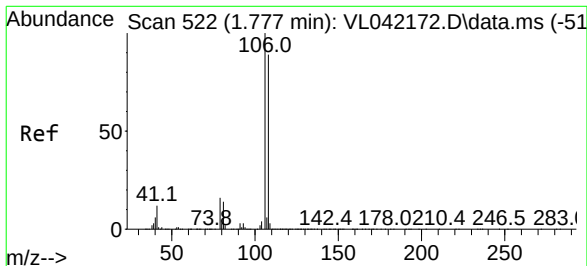
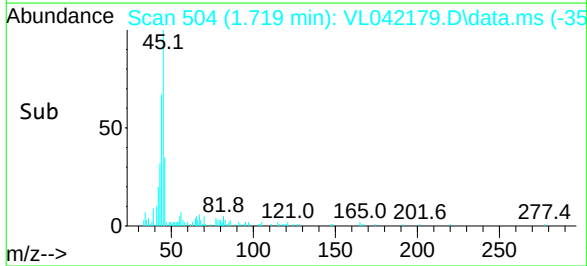
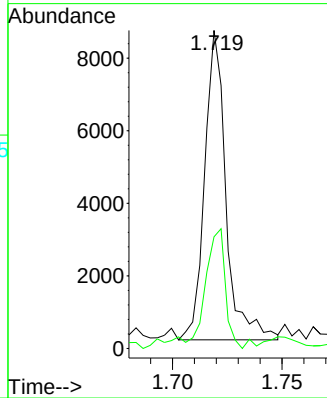
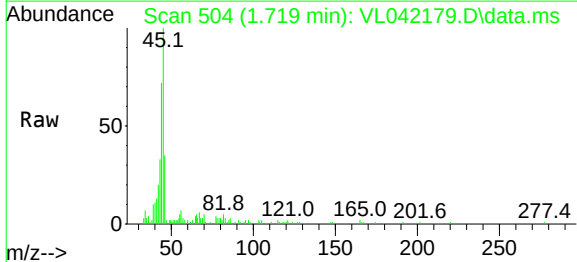
#13
Ethanol
Concen: 5.066 ppbv
RT: 1.719 min Scan# 504
Delta R.T. -0.000 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

Instrument : MSVOA_L
ClientSampleId : ICVVL032725

Tgt Ion: 45 Resp: 5773
Ion Ratio Lower Upper
45 100
46 48.5 20.2 80.8

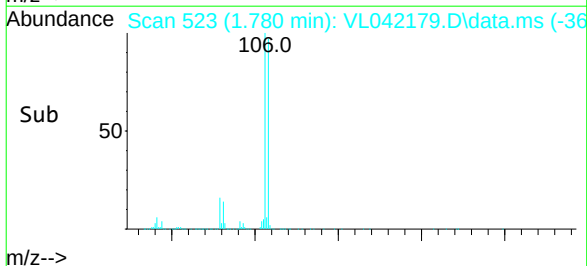
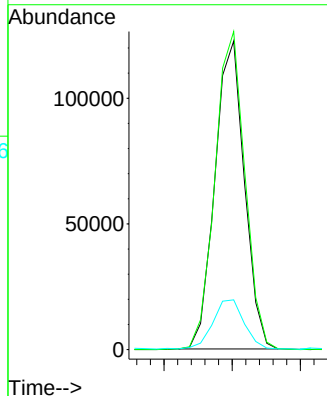
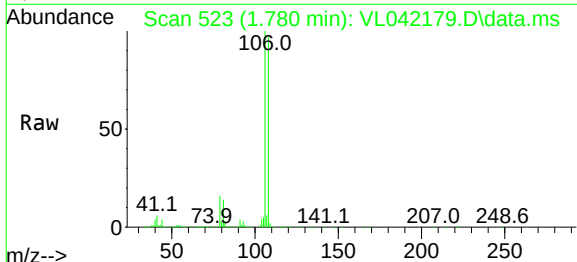
Manual Integrations
APPROVED

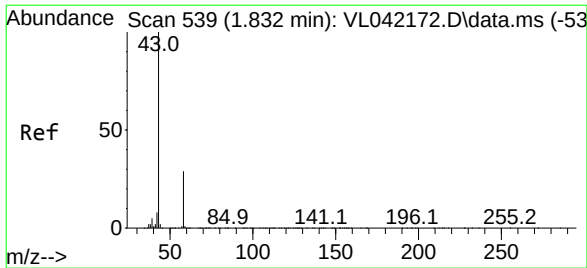
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#14
Bromoethene
Concen: 9.328 ppbv
RT: 1.780 min Scan# 523
Delta R.T. 0.003 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

Tgt Ion:108 Resp: 73572
Ion Ratio Lower Upper
108 100
106 105.0 86.8 130.2
79 18.8 15.0 22.6





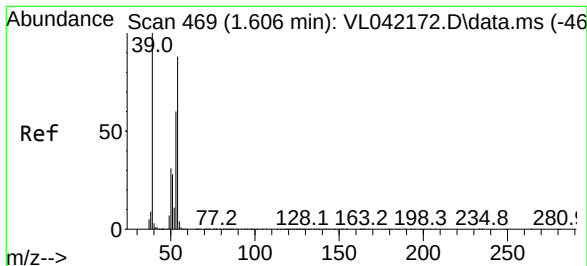
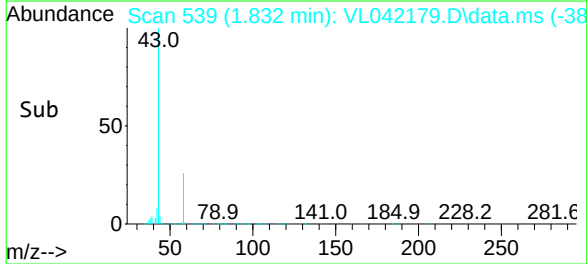
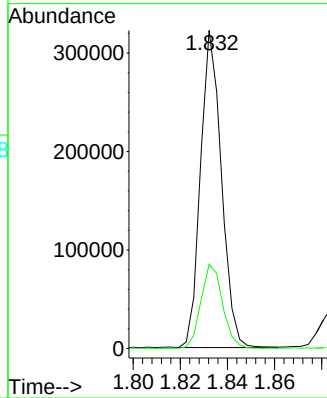
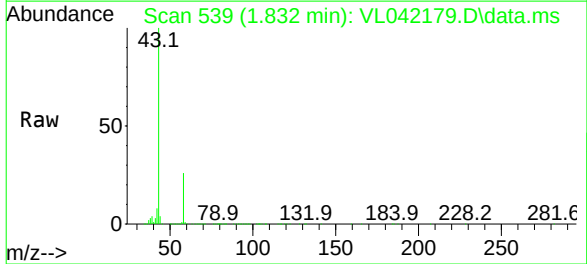
#15
Acetone
Concen: 8.132 ppbv
RT: 1.832 min Scan# 539
Delta R.T. -0.000 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

Instrument : MSVOA_L
ClientSampleId : ICVVL032725

Tgt Ion: 43 Resp: 198300
Ion Ratio Lower Upper
43 100
58 27.7 23.2 34.8

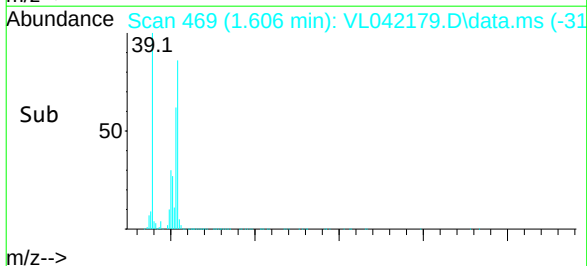
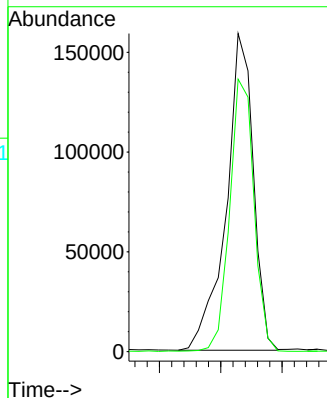
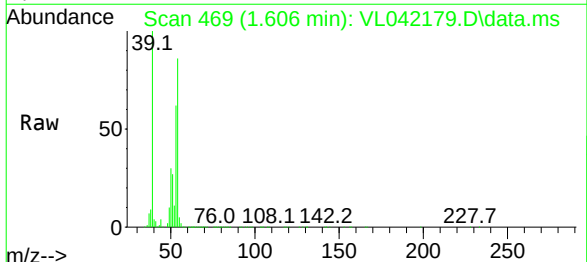
Manual Integrations
APPROVED

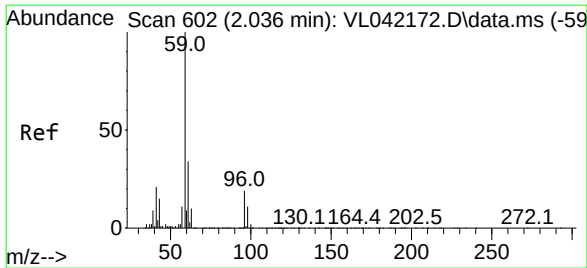
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#16
1,3-Butadiene
Concen: 8.216 ppbv
RT: 1.606 min Scan# 469
Delta R.T. -0.000 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

Tgt Ion: 39 Resp: 97840
Ion Ratio Lower Upper
39 100
54 76.9 60.7 91.1





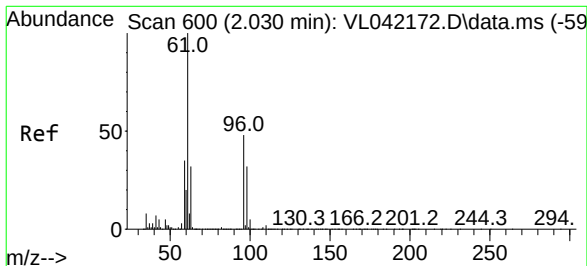
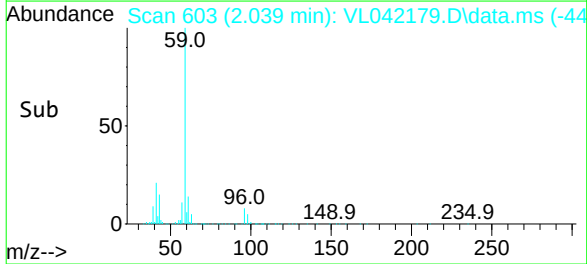
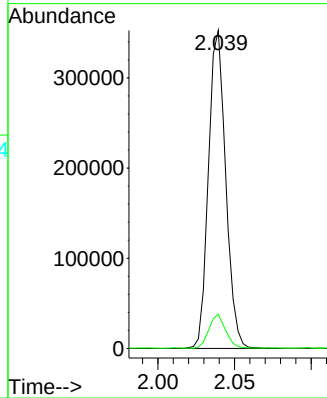
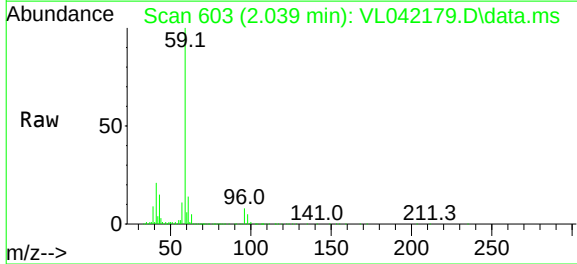
#17
tert-Butyl alcohol
Concen: 9.094 ppbv
RT: 2.039 min Scan# 60
Delta R.T. 0.003 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

Instrument :
MSVOA_L
ClientSampleId :
ICVVL032725

Tgt Ion: 59 Resp: 276195
Ion Ratio Lower Upper
59 100
57 10.6 8.9 13.3

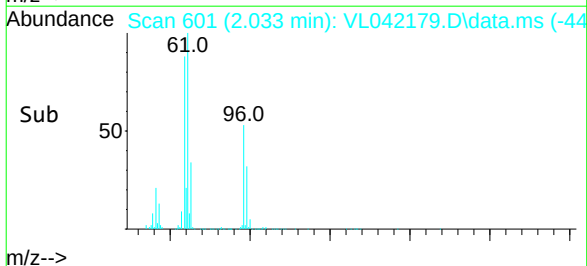
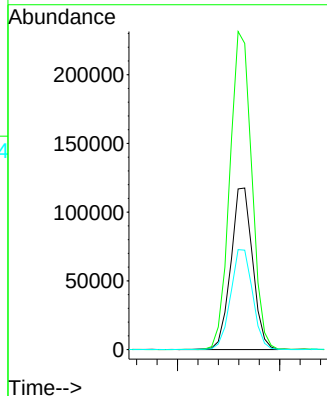
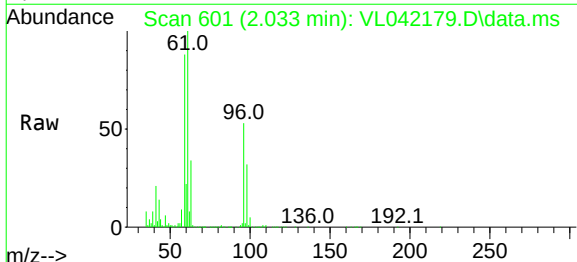
Manual Integrations
APPROVED

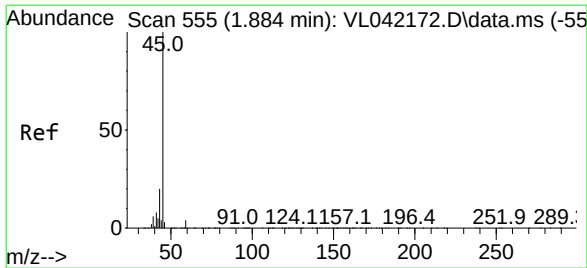
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#18
1,1-Dichloroethene
Concen: 9.053 ppbv
RT: 2.033 min Scan# 601
Delta R.T. 0.003 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

Tgt Ion: 96 Resp: 87137
Ion Ratio Lower Upper
96 100
61 189.6 167.6 251.4
98 61.5 53.5 80.3





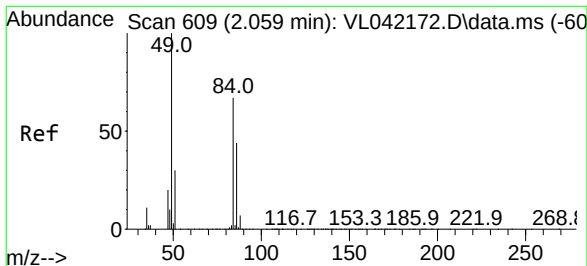
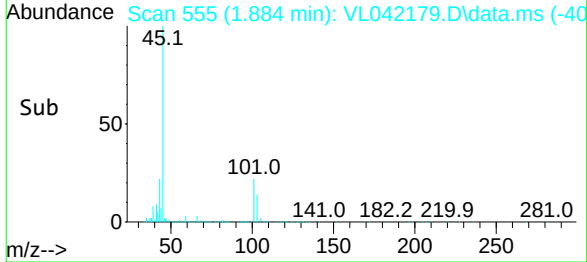
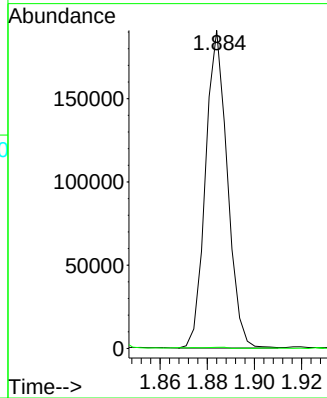
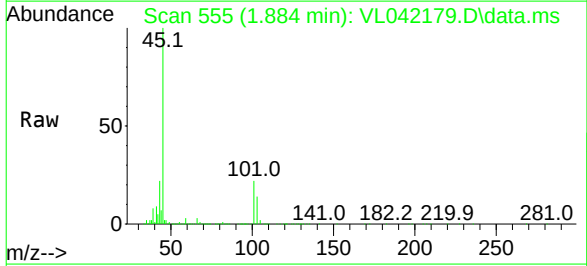
#19
Isopropyl Alcohol
Concen: 8.923 ppbv
RT: 1.884 min Scan# 555
Delta R.T. -0.000 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

Instrument : MSVOA_L
ClientSampleId : ICVVL032725

Tgt Ion: 45 Resp: 122768
Ion Ratio Lower Upper
45 100
58 44.9 36.9 55.3

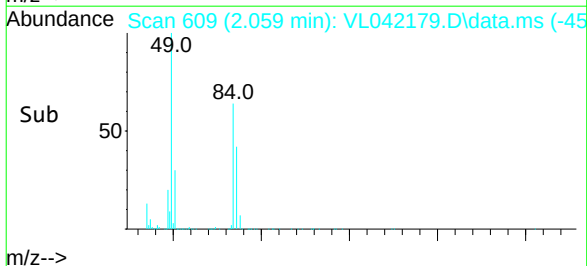
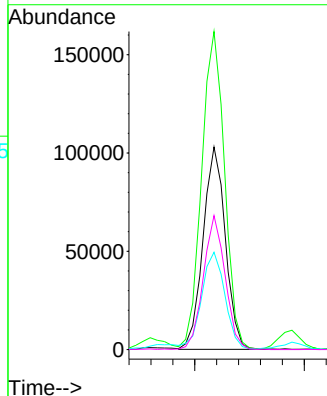
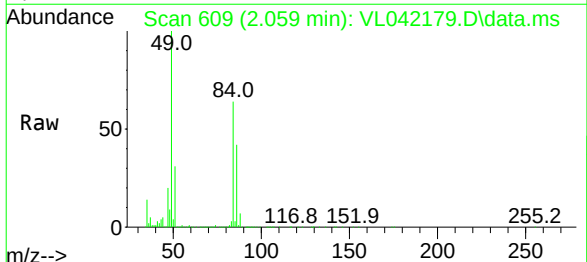
Manual Integrations
APPROVED

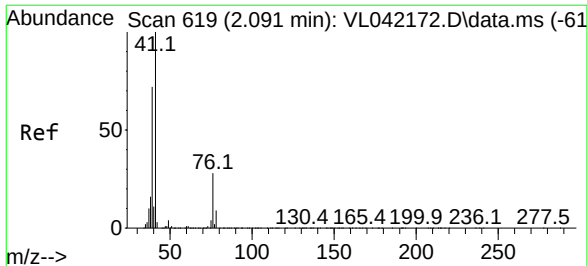
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#20
Methylene Chloride
Concen: 8.018 ppbv
RT: 2.059 min Scan# 609
Delta R.T. -0.000 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

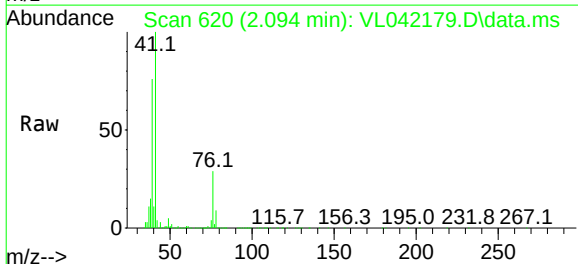
Tgt Ion: 84 Resp: 72813
Ion Ratio Lower Upper
84 100
49 155.8 120.2 180.4
51 46.4 37.4 56.0
86 66.2 52.4 78.6





#21
 Allyl Chloride
 Concen: 9.154 ppbv
 RT: 2.094 min Scan# 621
 Delta R.T. 0.003 min
 Lab File: VL042179.D
 Acq: 27 Mar 2025 12:23

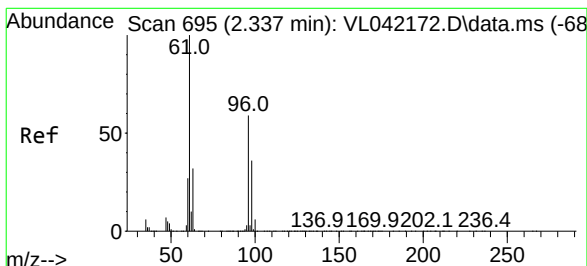
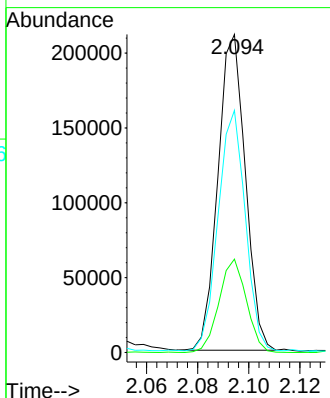
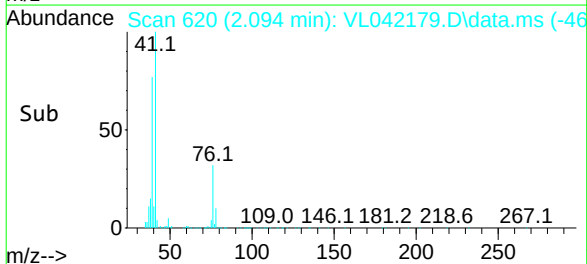
Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL032725



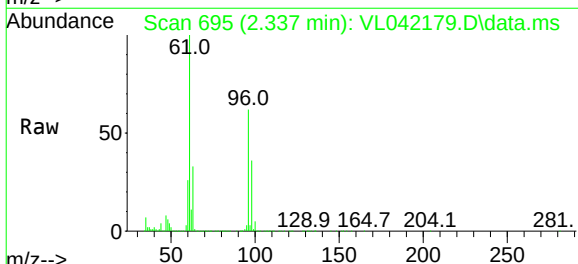
Tgt Ion: 41 Resp: 157418
 Ion Ratio Lower Upper
 41 100
 76 29.6 24.1 36.1
 39 75.5 61.1 91.7

Manual Integrations
 APPROVED

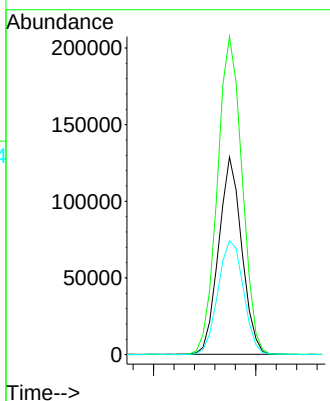
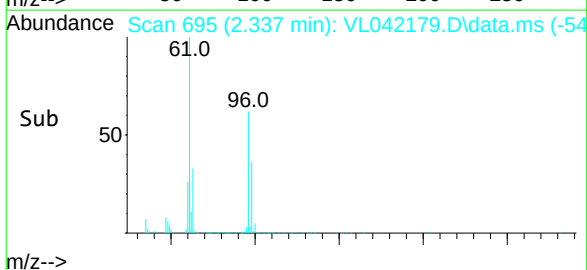
Reviewed By :Semsettin Yesilyurt 03/31/2025
 Supervised By :Mahesh Dadoda 04/03/2025

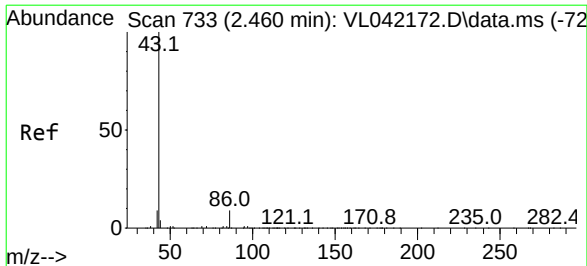


#22
 trans-1,2-Dichloroethene
 Concen: 9.092 ppbv
 RT: 2.337 min Scan# 695
 Delta R.T. -0.000 min
 Lab File: VL042179.D
 Acq: 27 Mar 2025 12:23



Tgt Ion: 96 Resp: 101141
 Ion Ratio Lower Upper
 96 100
 61 161.2 136.6 204.8
 98 57.7 49.4 74.2





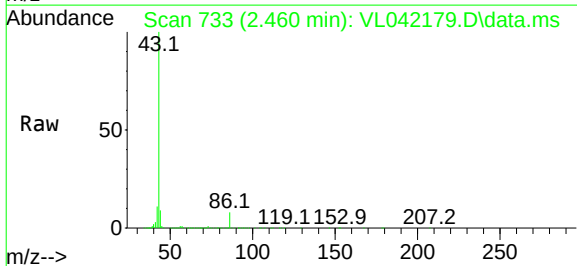
#23
 Vinyl Acetate
 Concen: 8.553 ppbv
 RT: 2.460 min Scan# 733
 Delta R.T. -0.000 min
 Lab File: VL042179.D
 Acq: 27 Mar 2025 12:23

Instrument :

MSVOA_L

ClientSampleId :

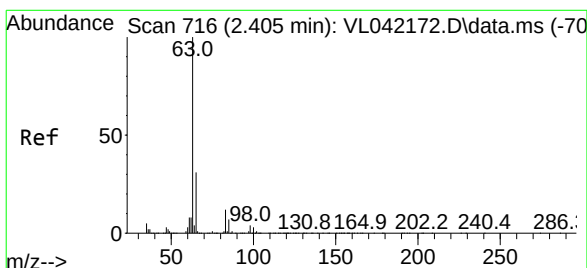
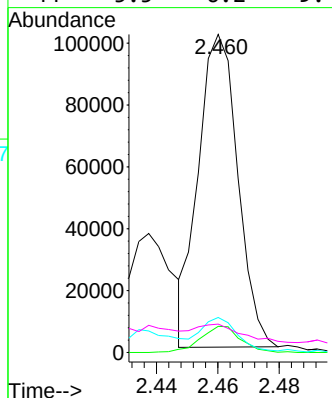
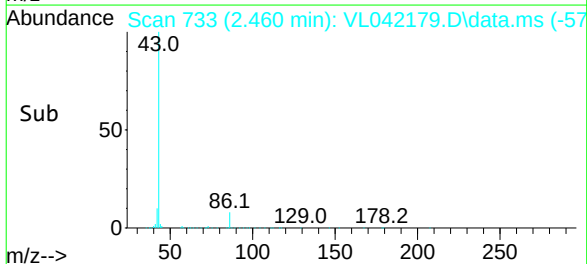
ICVVL032725



Tgt Ion:	43	Resp:	90260
Ion	Ratio	Lower	Upper
43	100		
86	8.3	5.5	8.3
42	10.7	8.6	13.0
44	5.5	6.2	9.4

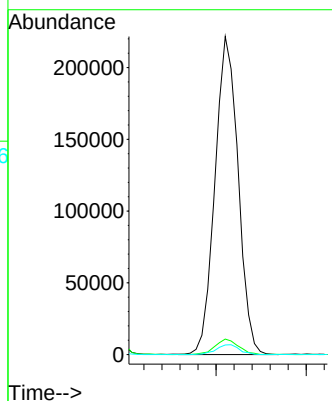
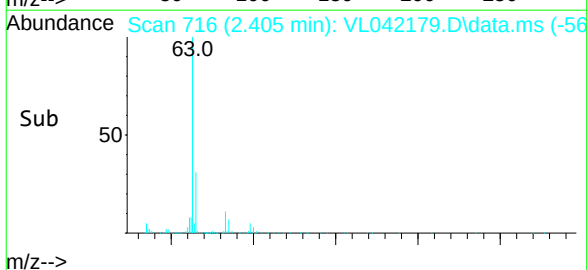
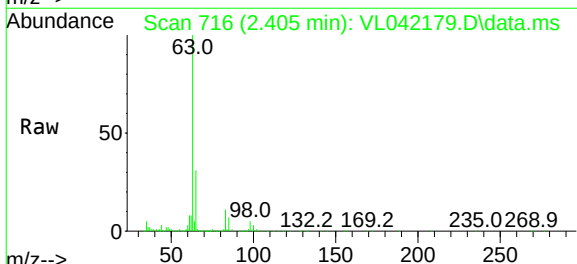
Manual Integrations
 APPROVED

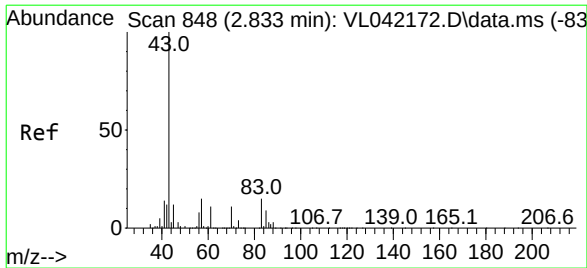
Reviewed By :Semsettin Yesilyurt 03/31/2025
 Supervised By :Mahesh Dadoda 04/03/2025



#24
 1,1-Dichloroethane
 Concen: 9.600 ppbv
 RT: 2.405 min Scan# 716
 Delta R.T. -0.000 min
 Lab File: VL042179.D
 Acq: 27 Mar 2025 12:23

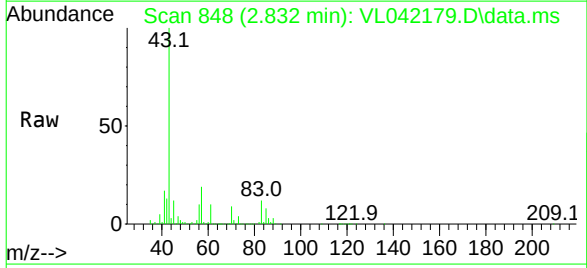
Tgt Ion:	63	Resp:	197968
Ion	Ratio	Lower	Upper
63	100		
98	4.8	2.3	6.8
100	3.0	1.6	4.7





#25
Ethyl Acetate
Concen: 9.364 ppbv
RT: 2.832 min Scan# 848
Delta R.T. -0.000 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

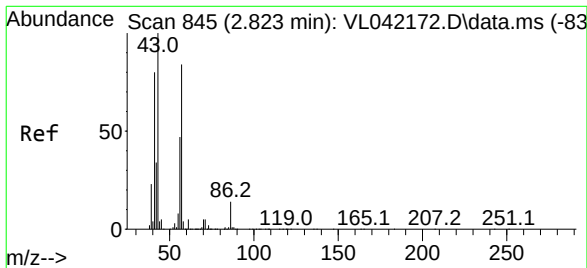
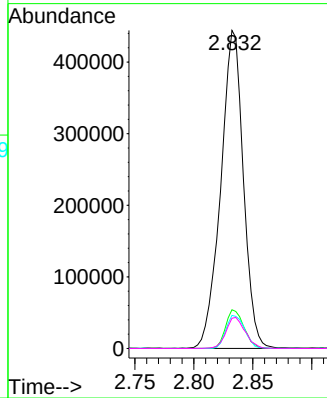
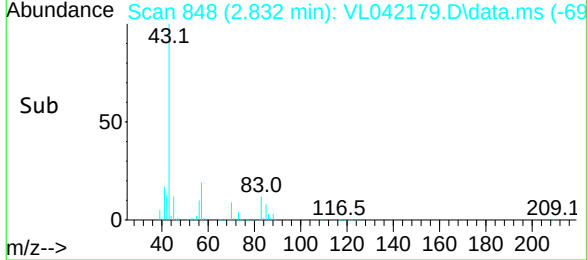
Instrument : MSVOA_L
ClientSampleId : ICVVL032725



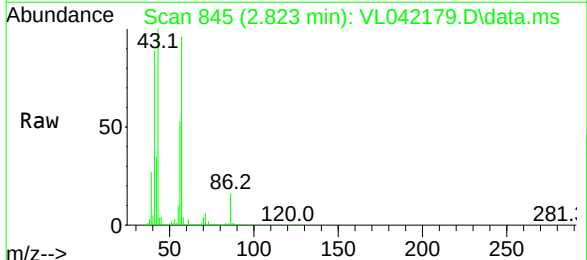
Tgt Ion	Ratio	Lower	Upper
43	100		
45	9.9	8.2	12.2
61	8.7	7.3	10.9
70	8.4	7.2	10.8

Manual Integrations
APPROVED

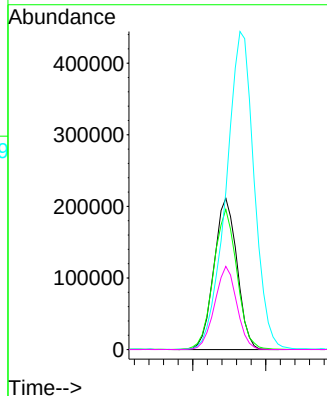
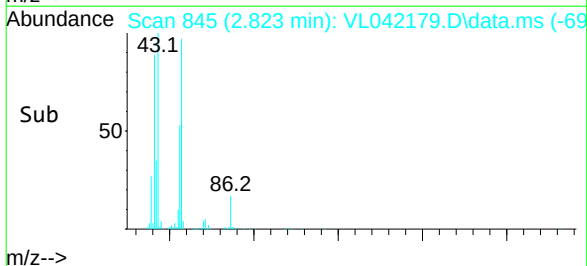
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025

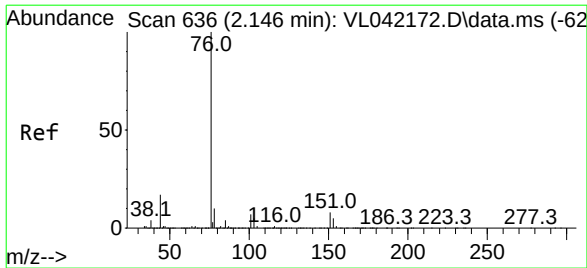


#26
Hexane
Concen: 9.455 ppbv
RT: 2.823 min Scan# 845
Delta R.T. -0.000 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23



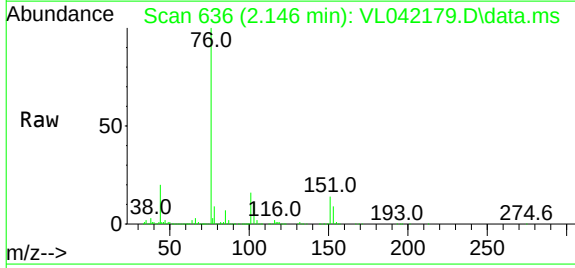
Tgt Ion	Ratio	Lower	Upper
57	100		
41	95.2	76.6	114.8
43	256.8	207.8	311.8
56	53.0	43.6	65.4





#27
Carbon Disulfide
Concen: 9.493 ppbv
RT: 2.146 min Scan# 636
Delta R.T. -0.000 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

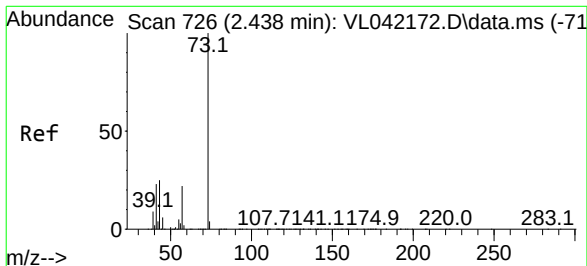
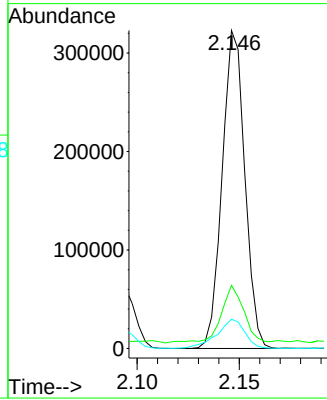
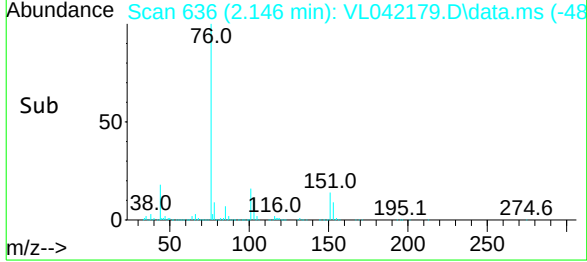
Instrument : MSVOA_L
ClientSampleId : ICVVL032725



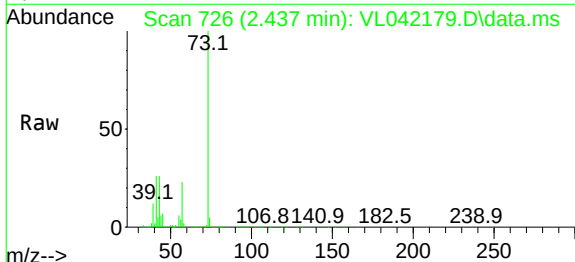
Tgt Ion: 76 Resp: 248834
Ion Ratio Lower Upper
76 100
44 20.1 14.7 22.1
78 11.3 9.3 13.9

Manual Integrations
APPROVED

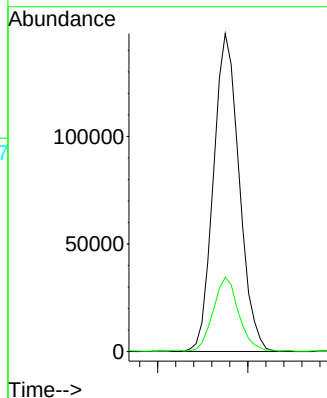
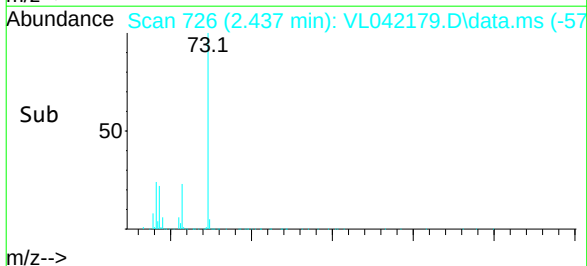
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025

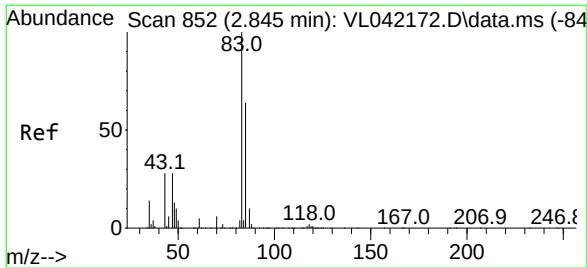


#28
Methyl tert-Butyl Ether
Concen: 9.624 ppbv
RT: 2.437 min Scan# 726
Delta R.T. -0.000 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23



Tgt Ion: 73 Resp: 146470
Ion Ratio Lower Upper
73 100
57 23.3 20.5 30.7





#29

Chloroform

Concen: 9.619 ppbv

RT: 2.845 min Scan# 85

Delta R.T. -0.000 min

Lab File: VL042179.D

Acq: 27 Mar 2025 12:23

Instrument :

MSVOA_L

ClientSampleId :

ICVVL032725

Tgt Ion: 83 Resp: 344106

Ion Ratio Lower Upper

83 100

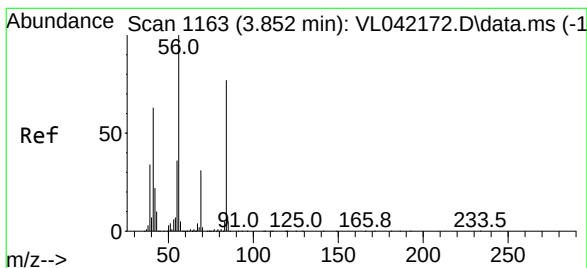
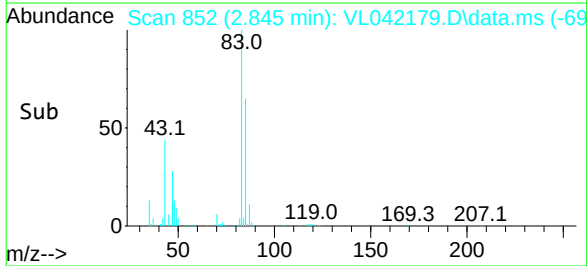
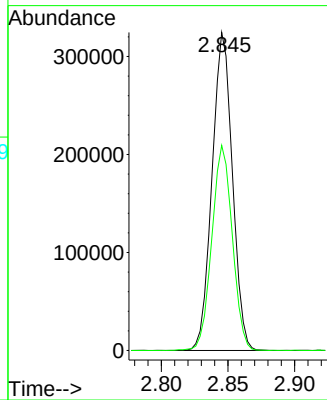
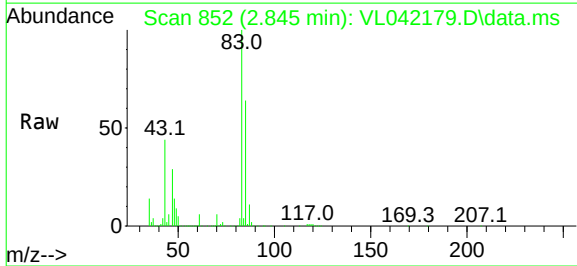
85 64.5 51.4 77.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 03/31/2025

Supervised By :Mahesh Dadoda 04/03/2025



#30

Cyclohexane

Concen: 9.323 ppbv

RT: 3.852 min Scan# 1163

Delta R.T. -0.000 min

Lab File: VL042179.D

Acq: 27 Mar 2025 12:23

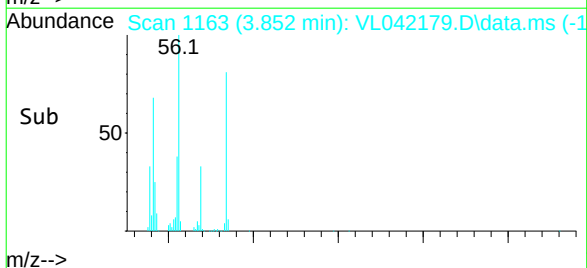
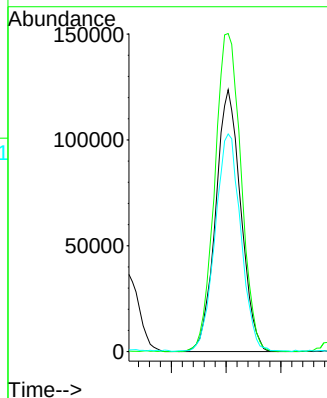
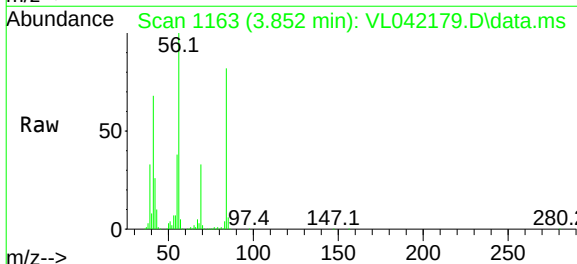
Tgt Ion: 84 Resp: 197897

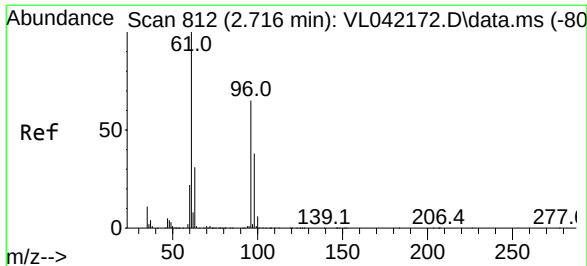
Ion Ratio Lower Upper

84 100

56 126.8 102.8 154.2

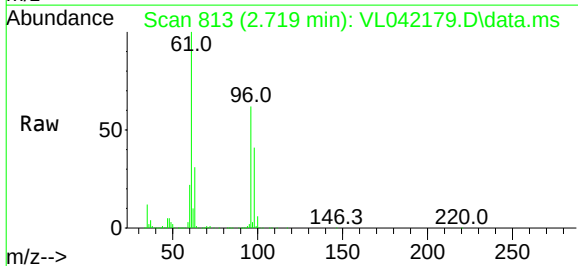
41 84.6 66.5 99.7





#31
cis-1,2-Dichloroethene
Concen: 9.449 ppbv
RT: 2.719 min Scan# 812
Delta R.T. 0.003 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

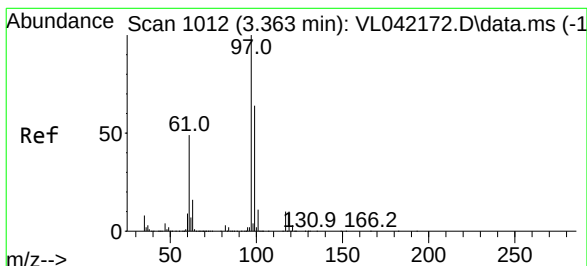
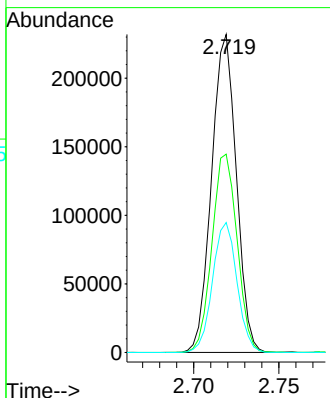
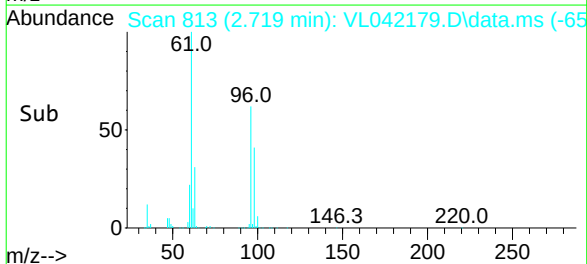
Instrument :
MSVOA_L
ClientSampleId :
ICVVL032725



Tgt Ion: 61 Resp: 234487
Ion Ratio Lower Upper
61 100
96 62.3 51.8 77.8
98 40.9 30.6 46.0

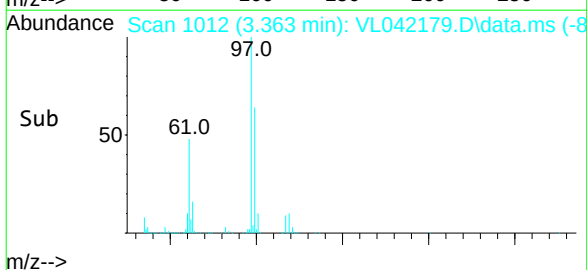
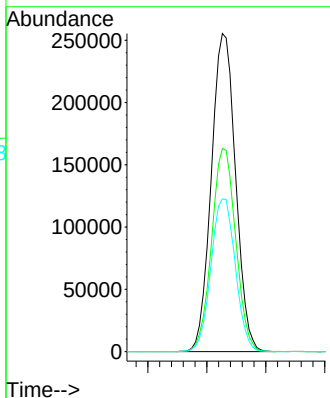
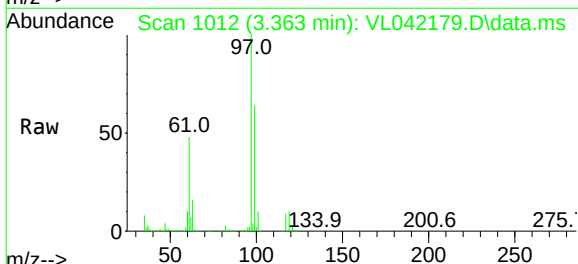
Manual Integrations
APPROVED

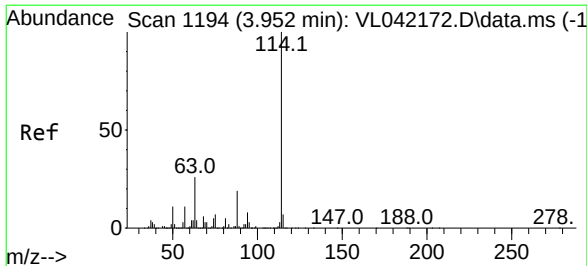
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#32
1,1,1-Trichloroethane
Concen: 8.921 ppbv
RT: 3.363 min Scan# 1012
Delta R.T. -0.000 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

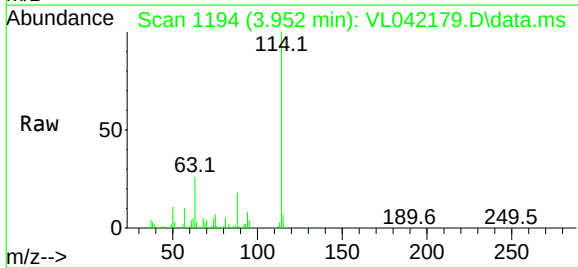
Tgt Ion: 97 Resp: 365364
Ion Ratio Lower Upper
97 100
99 63.4 51.5 77.3
61 48.4 38.7 58.1





#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.952 min Scan# 1194
Delta R.T. -0.000 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

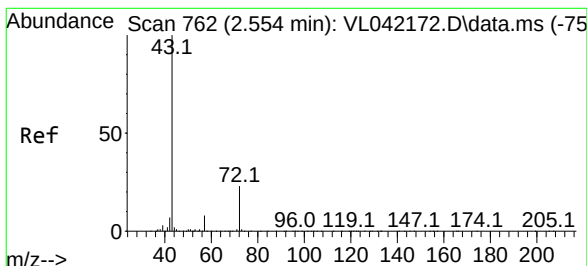
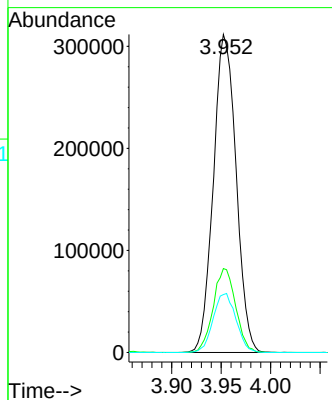
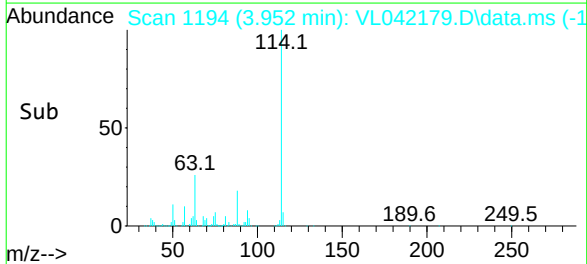
Instrument : MSVOA_L
ClientSampleId : ICVVL032725



Tgt Ion: 114 Resp: 498105
Ion Ratio Lower Upper
114 100
63 26.1 20.7 31.1
88 18.7 15.0 22.4

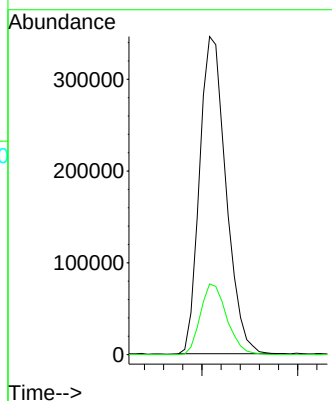
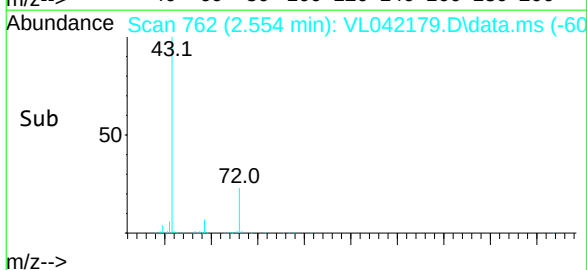
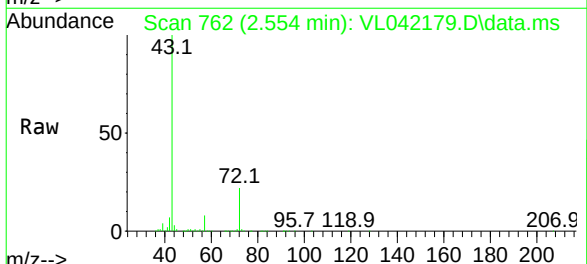
Manual Integrations
APPROVED

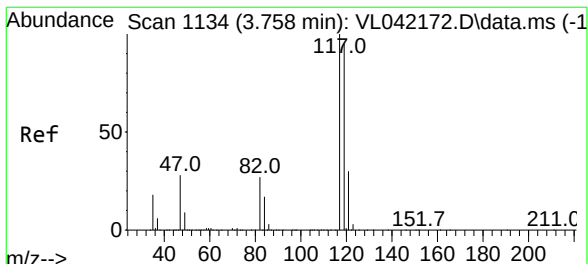
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#34
2-Butanone
Concen: 9.171 ppbv
RT: 2.554 min Scan# 762
Delta R.T. -0.000 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

Tgt Ion: 43 Resp: 331236
Ion Ratio Lower Upper
43 100
72 22.2 18.2 27.2





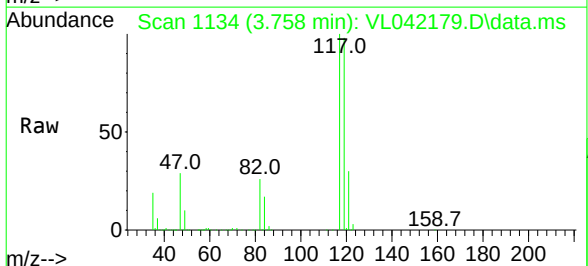
#35
Carbon Tetrachloride
Concen: 9.339 ppbv
RT: 3.758 min Scan# 111
Delta R.T. -0.000 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

Instrument :

MSVOA_L

ClientSampleId :

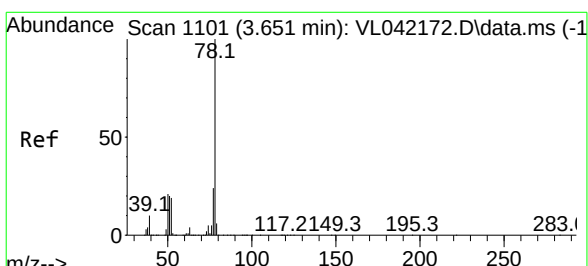
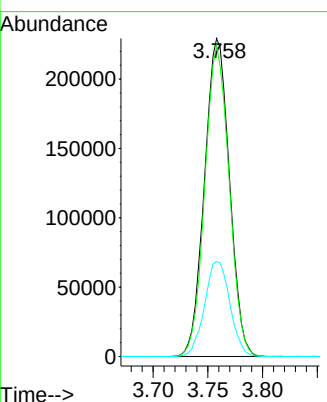
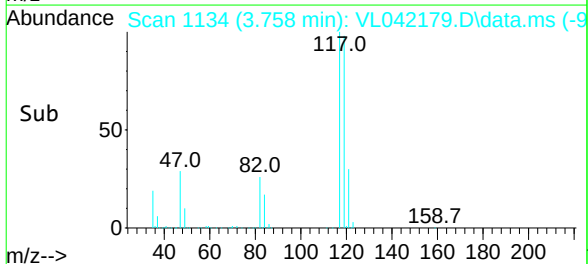
ICVVL032725



Tgt Ion:	117	Resp:	363392
Ion	Ratio	Lower	Upper
117	100		
119	97.7	76.2	114.2
121	29.9	24.2	36.4

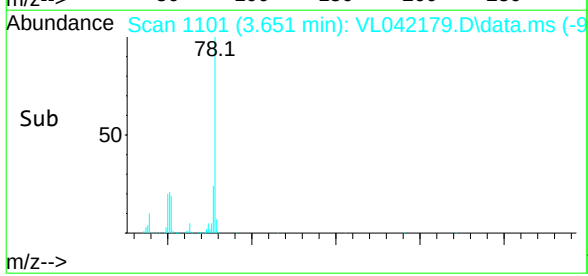
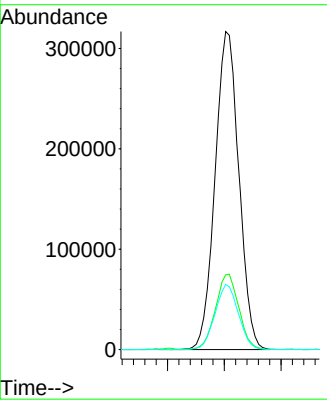
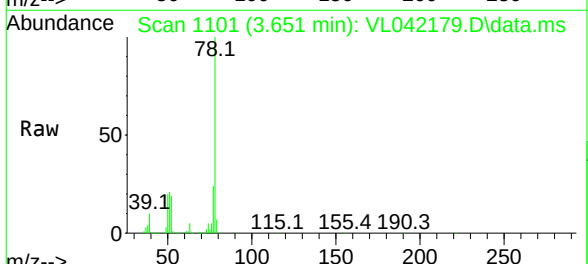
Manual Integrations
APPROVED

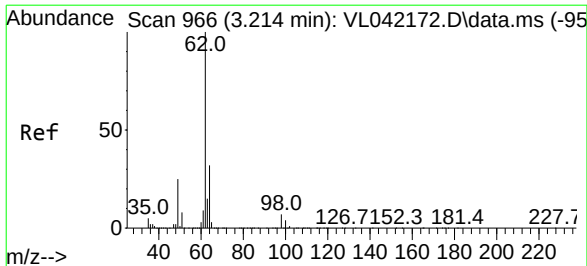
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#36
Benzene
Concen: 9.341 ppbv
RT: 3.651 min Scan# 1101
Delta R.T. -0.000 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

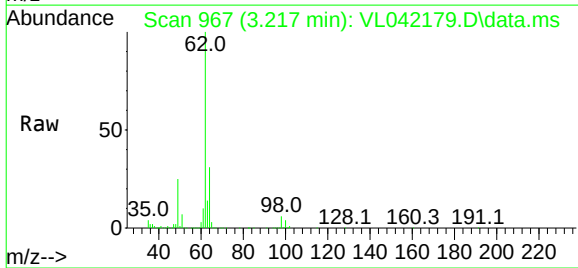
Tgt Ion:	78	Resp:	461261
Ion	Ratio	Lower	Upper
78	100		
77	23.5	19.1	28.7
50	20.4	16.6	24.8





#37
1,2-Dichloroethane
Concen: 9.676 ppbv
RT: 3.217 min Scan# 96
Delta R.T. 0.003 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

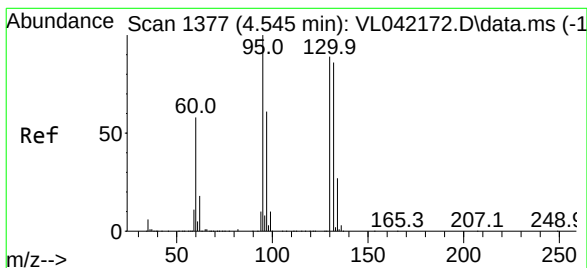
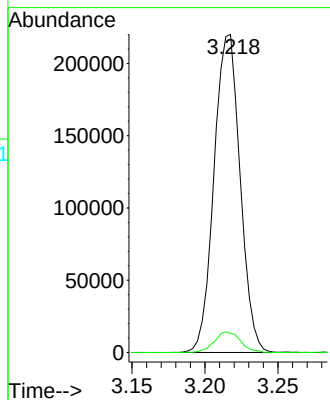
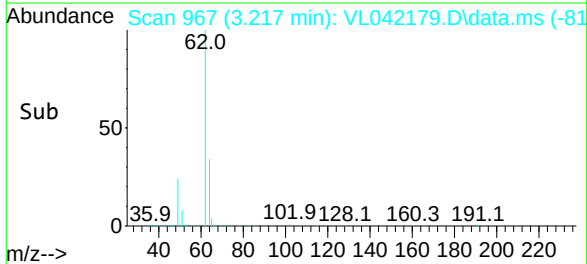
Instrument :
MSVOA_L
ClientSampleId :
ICVVL032725



Tgt Ion: 62 Resp: 273559
Ion Ratio Lower Upper
62 100
98 6.6 5.4 8.2

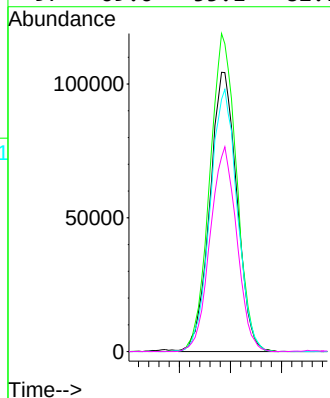
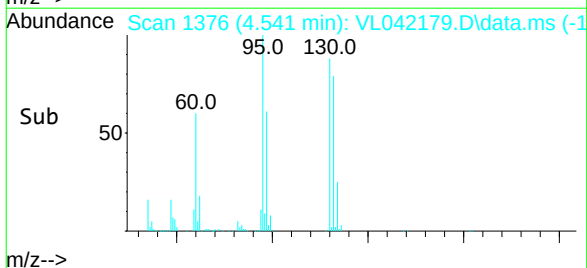
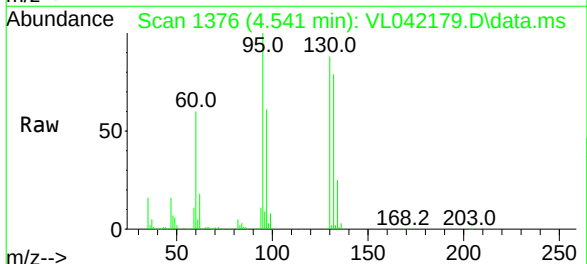
Manual Integrations
APPROVED

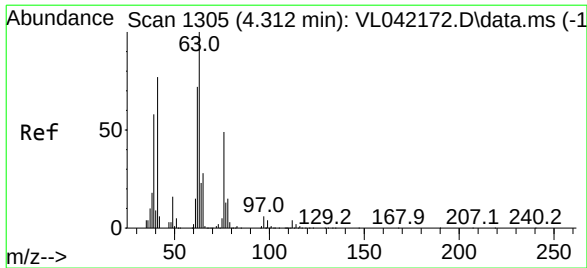
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#38
Trichloroethene
Concen: 9.306 ppbv
RT: 4.541 min Scan# 1376
Delta R.T. -0.003 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

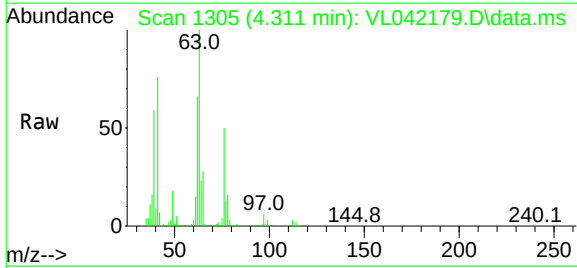
Tgt Ion:130 Resp: 191746
Ion Ratio Lower Upper
130 100
95 113.9 89.8 134.8
132 90.3 77.4 116.2
97 69.6 55.1 82.7





#39
1,2-Dichloropropane
Concen: 9.500 ppbv
RT: 4.311 min Scan# 1305
Delta R.T. -0.000 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

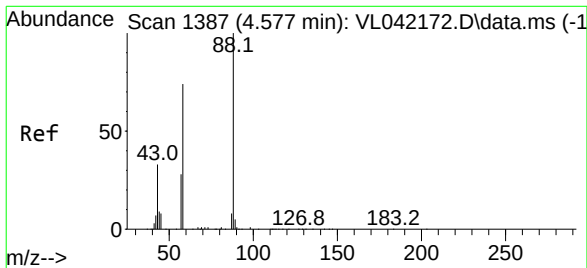
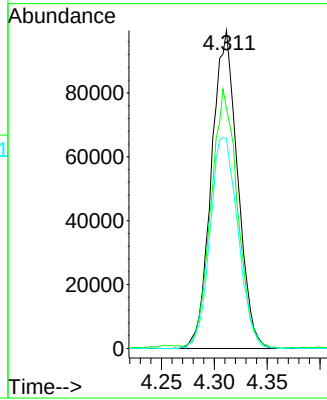
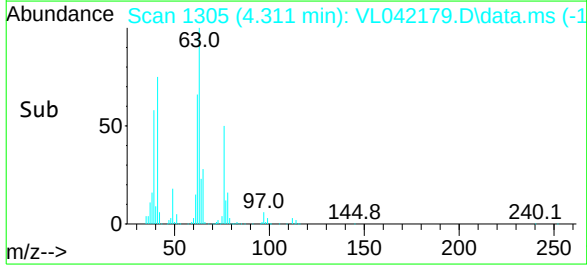
Instrument : MSVOA_L
ClientSampleId : ICVVL032725



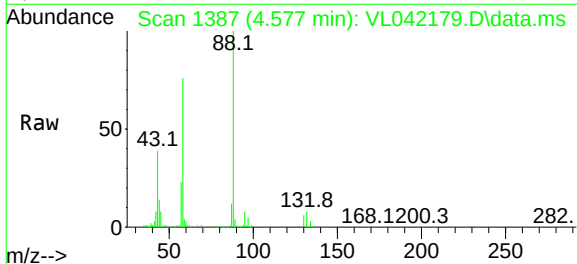
Tgt Ion: 63 Resp: 170839
Ion Ratio Lower Upper
63 100
41 75.3 61.7 92.5
62 66.0 57.6 86.4

Manual Integrations
APPROVED

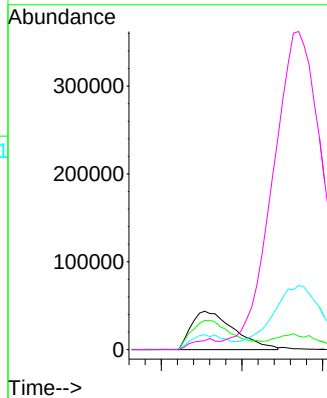
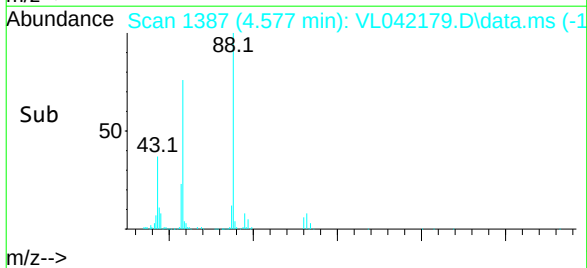
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025

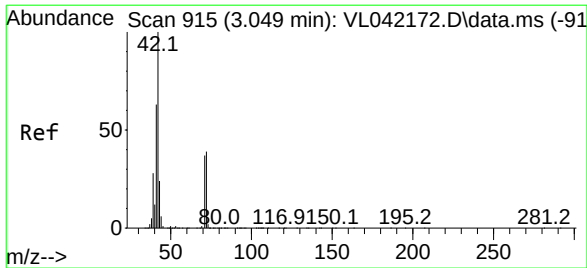


#40
1,4-Dioxane
Concen: 8.443 ppbv
RT: 4.577 min Scan# 1387
Delta R.T. -0.000 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23



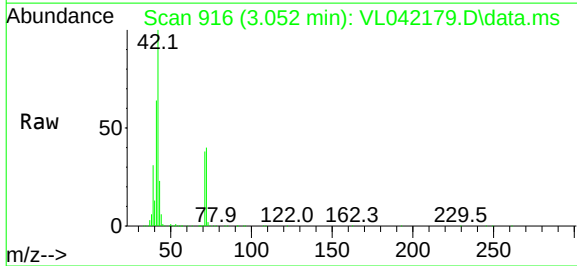
Tgt Ion: 88 Resp: 80592
Ion Ratio Lower Upper
88 100
58 76.2 62.7 94.1
43 31.4 23.0 34.4
57 0.0 0.0 0.0





#41
Tetrahydrofuran
Concen: 9.431 ppbv
RT: 3.052 min Scan# 915
Delta R.T. 0.003 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

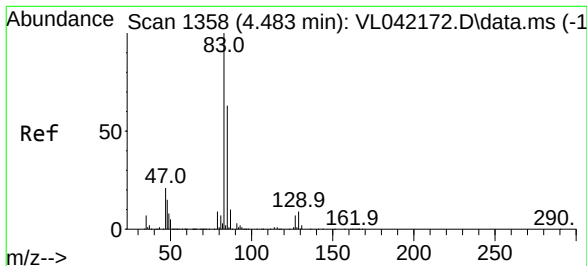
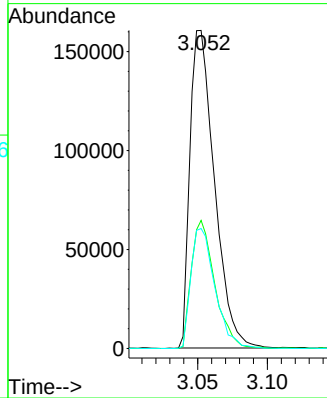
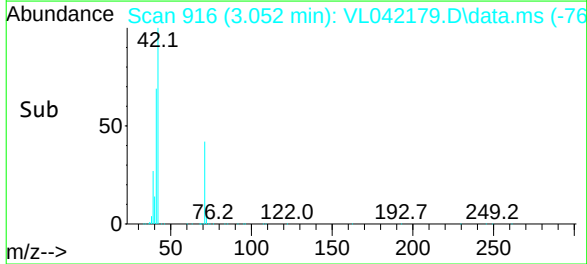
Instrument :
MSVOA_L
ClientSampleId :
ICVVL032725



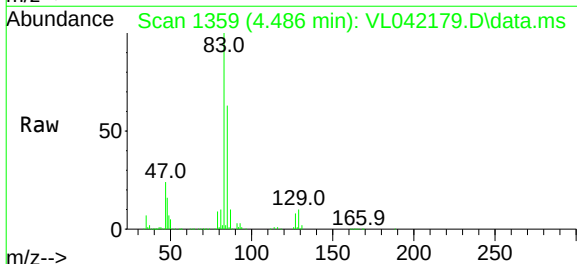
Tgt Ion: 42 Resp: 196163
Ion Ratio Lower Upper
42 100
72 38.9 31.4 47.0
71 37.2 30.2 45.4

Manual Integrations
APPROVED

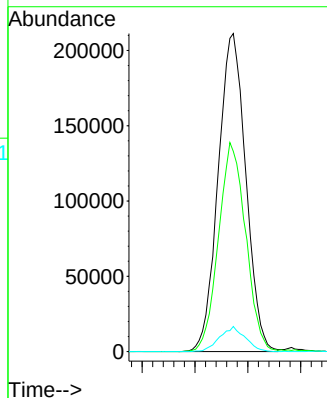
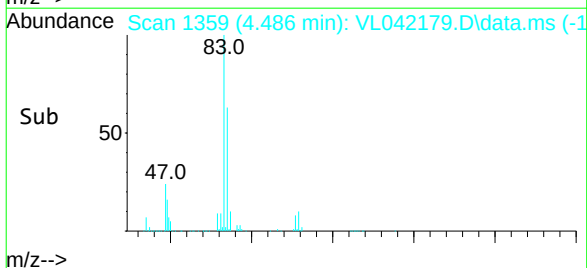
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025

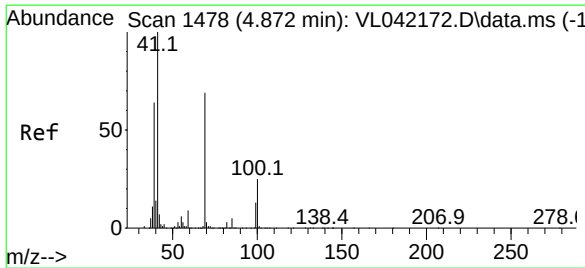


#42
Bromodichloromethane
Concen: 9.853 ppbv
RT: 4.486 min Scan# 1359
Delta R.T. 0.003 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23



Tgt Ion: 83 Resp: 384006
Ion Ratio Lower Upper
83 100
85 63.0 50.5 75.7
127 7.9 5.9 8.9





#43

Methyl Methacrylate

Concen: 9.344 ppbv

RT: 4.878 min Scan# 1478

Delta R.T. 0.006 min

Lab File: VL042179.D

Acq: 27 Mar 2025 12:23

Instrument :

MSVOA_L

ClientSampleId :

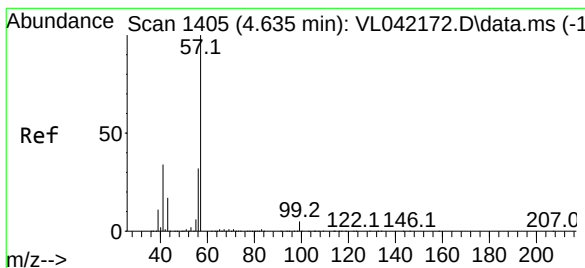
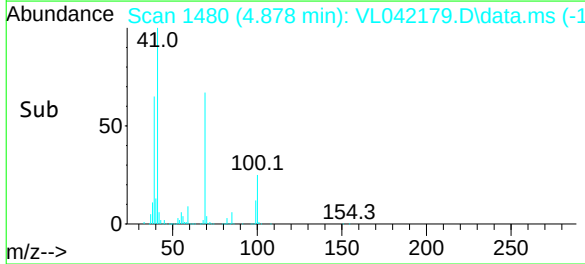
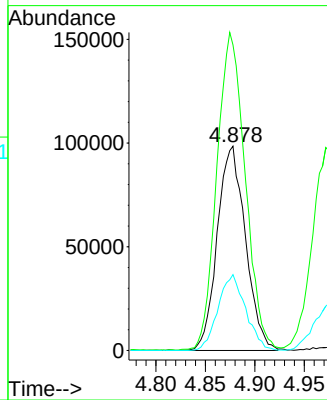
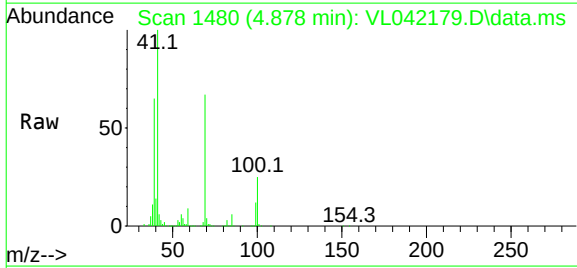
ICVVL032725

Tgt Ion:	69	Resp:	195339
Ion	Ratio	Lower	Upper
69	100		
41	156.4	123.8	185.6
100	36.4	28.4	42.6

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#44

2,2,4-Trimethylpentane

Concen: 9.436 ppbv

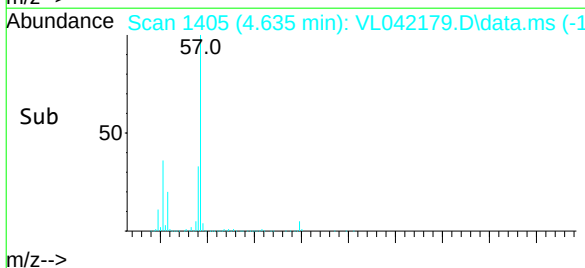
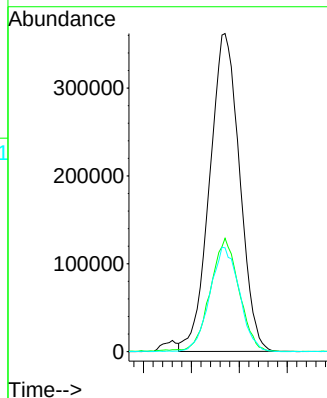
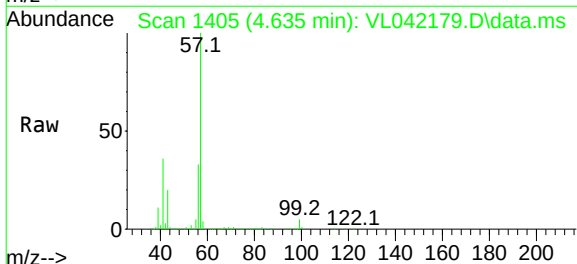
RT: 4.635 min Scan# 1405

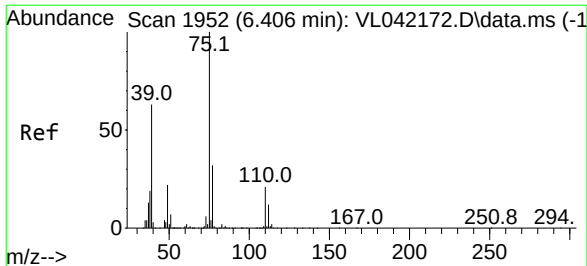
Delta R.T. -0.000 min

Lab File: VL042179.D

Acq: 27 Mar 2025 12:23

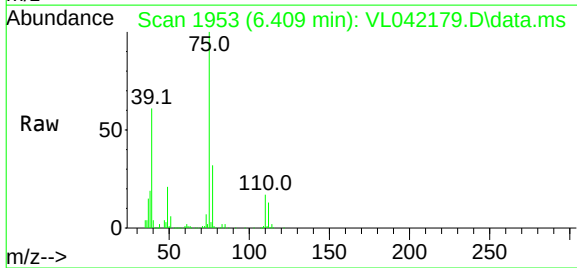
Tgt Ion:	57	Resp:	787400
Ion	Ratio	Lower	Upper
57	100		
41	34.3	26.8	40.2
56	32.5	25.6	38.4





#45
t-1,3-Dichloropropene
Concen: 9.467 ppbv
RT: 6.409 min Scan# 1952
Delta R.T. 0.003 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

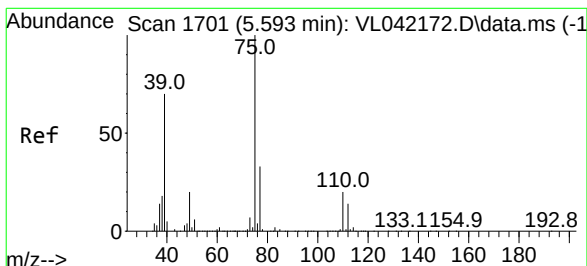
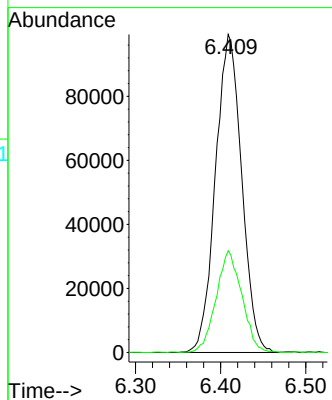
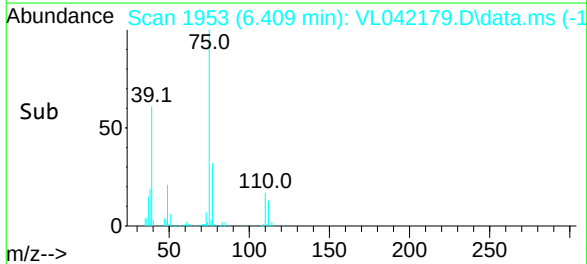
Instrument :
MSVOA_L
ClientSampleId :
ICVVL032725



Tgt Ion: 75 Resp: 212335
Ion Ratio Lower Upper
75 100
77 32.0 26.0 39.0

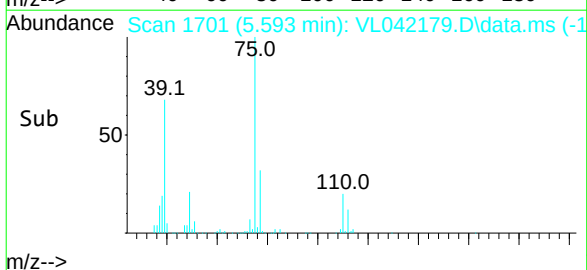
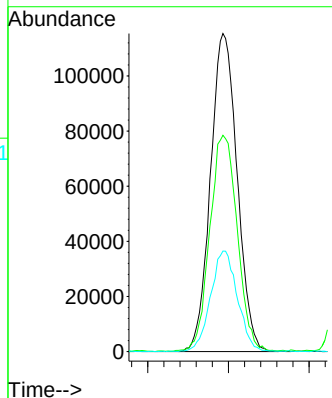
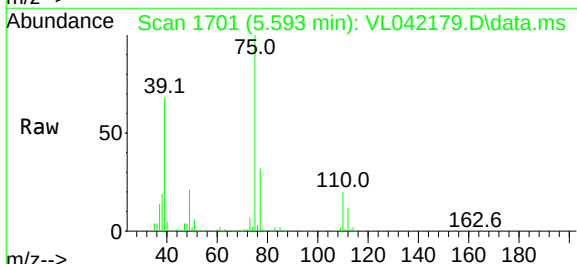
Manual Integrations
APPROVED

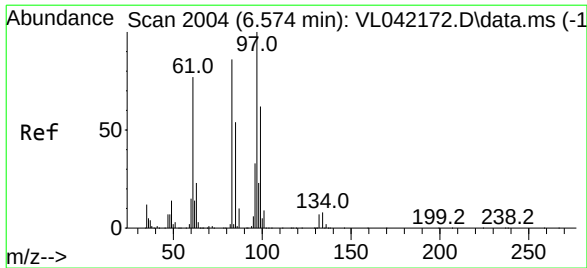
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#46
cis-1,3-Dichloropropene
Concen: 9.643 ppbv
RT: 5.593 min Scan# 1701
Delta R.T. -0.000 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

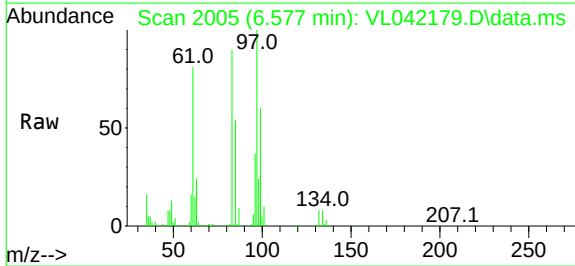
Tgt Ion: 75 Resp: 265101
Ion Ratio Lower Upper
75 100
39 67.8 55.8 83.6
77 31.6 26.0 39.0





#47
1,1,2-Trichloroethane
Concen: 9.638 ppbv
RT: 6.577 min Scan# 2005
Delta R.T. 0.003 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

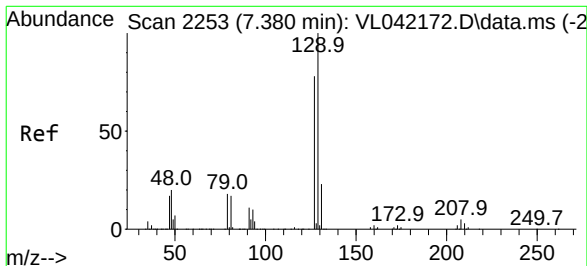
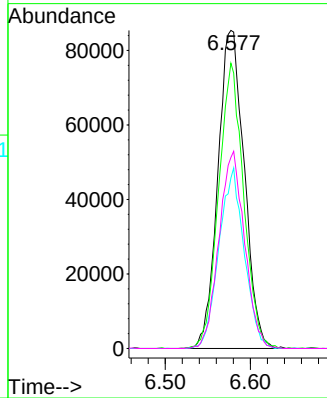
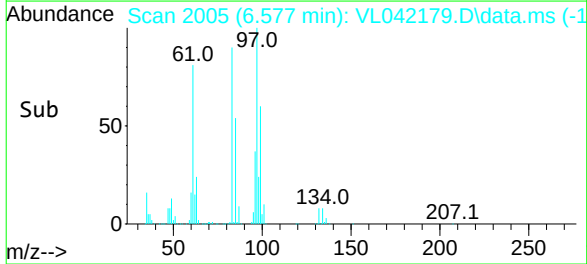
Instrument : MSVOA_L
ClientSampleId : ICVVL032725



Tgt Ion: 97 Resp: 183228
Ion Ratio Lower Upper
97 100
83 89.7 69.2 103.8
85 53.6 43.1 64.7
99 60.1 49.4 74.2

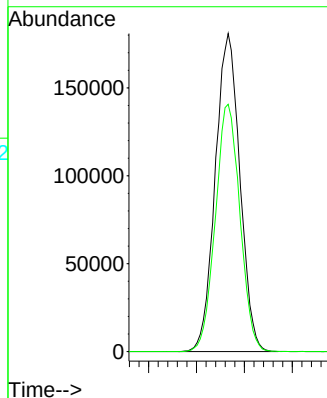
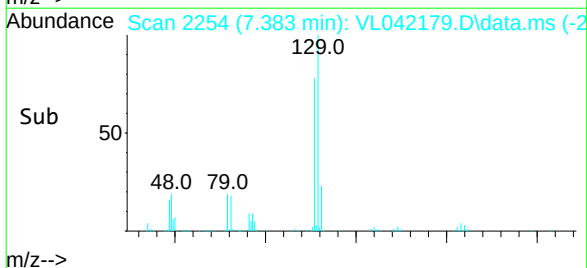
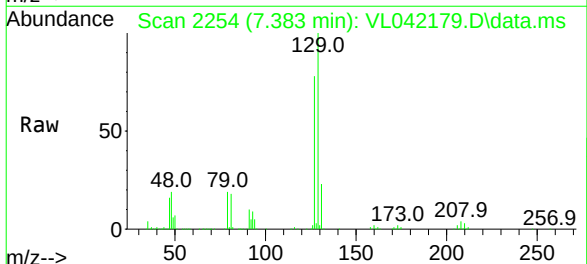
Manual Integrations
APPROVED

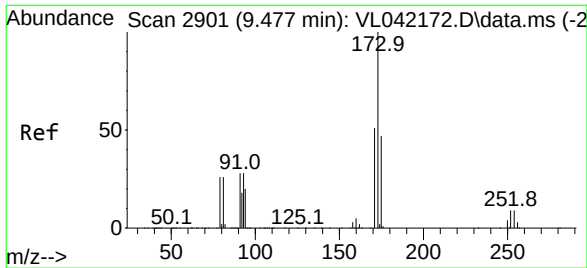
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#48
Dibromochloromethane
Concen: 10.018 ppbv
RT: 7.383 min Scan# 2254
Delta R.T. 0.003 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

Tgt Ion:129 Resp: 322766
Ion Ratio Lower Upper
129 100
127 77.7 39.1 117.2





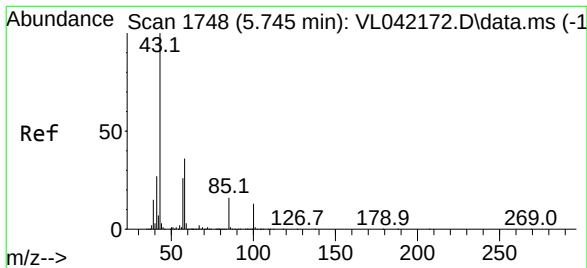
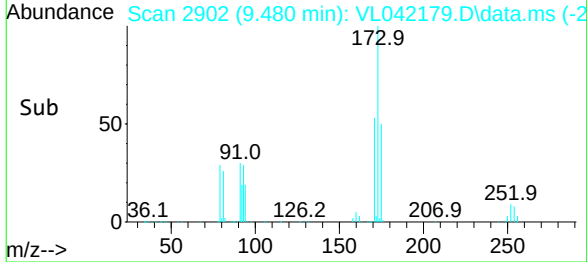
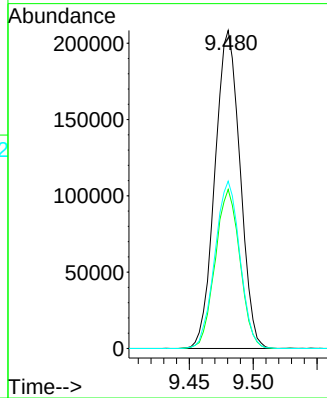
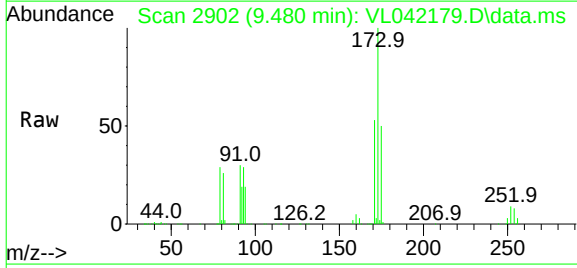
#49
Bromoform
Concen: 9.858 ppbv
RT: 9.480 min Scan# 2901
Delta R.T. 0.003 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

Instrument :
MSVOA_L
ClientSampleId :
ICVVL032725

Tgt Ion: 173 Resp: 285149
Ion Ratio Lower Upper
173 100
175 49.2 38.6 57.8
171 52.4 41.8 62.6

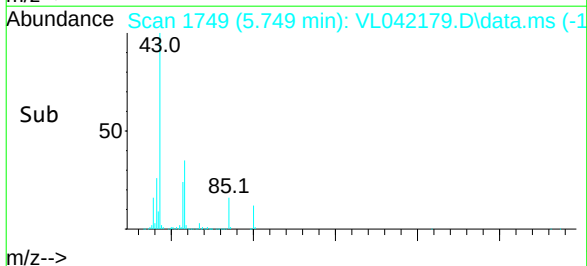
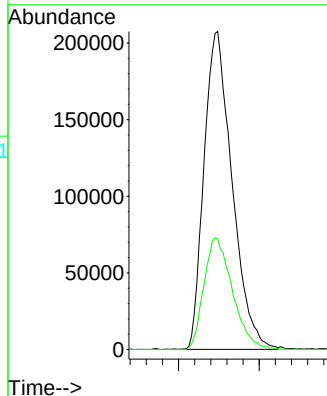
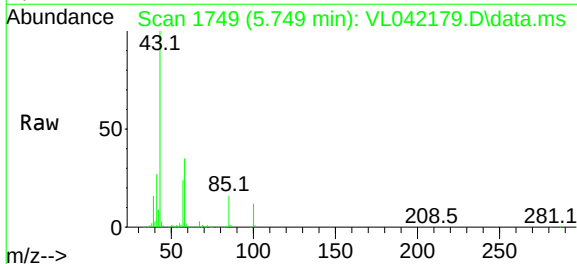
Manual Integrations
APPROVED

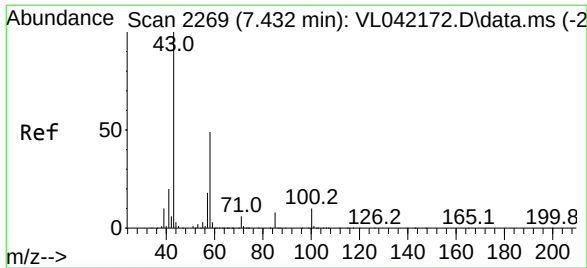
Reviewed By : Semsettin Yesilyurt 03/31/2025
Supervised By : Mahesh Dadoda 04/03/2025



#50
4-Methyl-2-Pentanone
Concen: 8.749 ppbv
RT: 5.749 min Scan# 1749
Delta R.T. 0.003 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

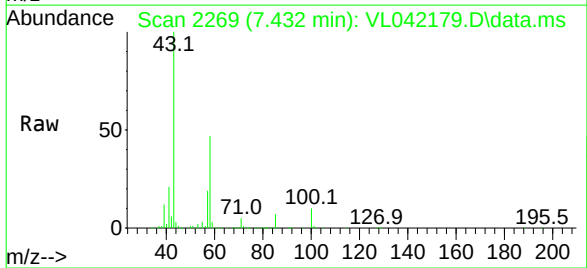
Tgt Ion: 43 Resp: 500791
Ion Ratio Lower Upper
43 100
58 35.8 29.0 43.6





#51
2-Hexanone
Concen: 8.741 ppbv
RT: 7.432 min Scan# 2269
Delta R.T. -0.000 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

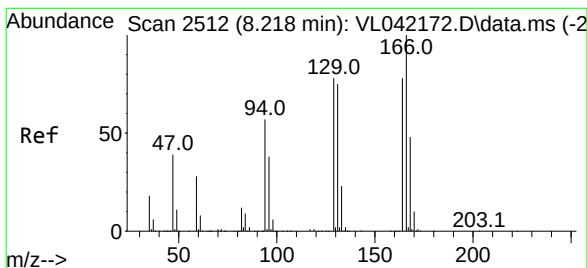
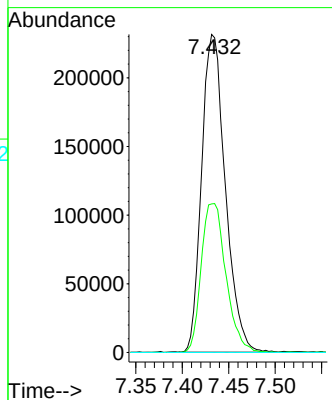
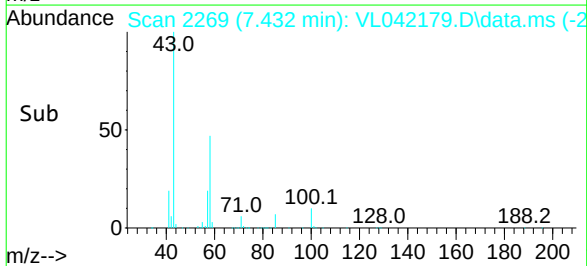
Instrument : MSVOA_L
ClientSampleId : ICVVL032725



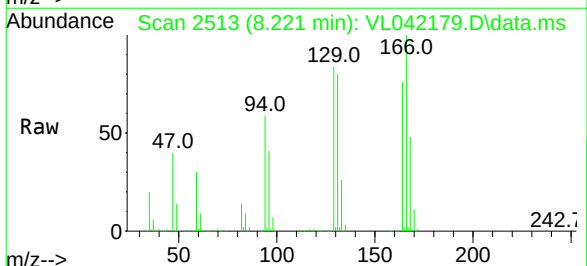
Tgt Ion: 43 Resp: 410889
Ion Ratio Lower Upper
43 100
58 48.9 39.7 59.5
98 0.0 0.1 0.1

Manual Integrations
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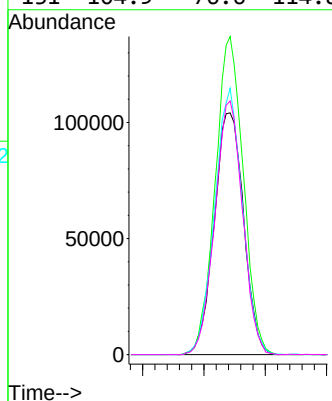
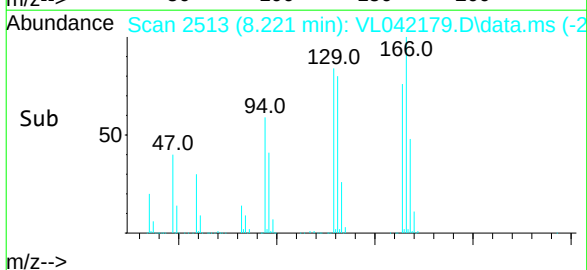
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025

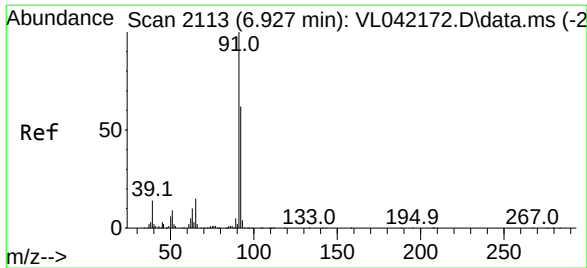


#52
Tetrachloroethene
Concen: 8.855 ppbv
RT: 8.221 min Scan# 2513
Delta R.T. 0.003 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23



Tgt Ion:164 Resp: 173420
Ion Ratio Lower Upper
164 100
166 131.6 102.5 153.7
129 110.1 79.8 119.8
131 104.9 76.6 114.8





#53

Toluene

Concen: 9.514 ppbv

RT: 6.927 min Scan# 2113

Delta R.T. -0.000 min

Lab File: VL042179.D

Acq: 27 Mar 2025 12:23

Instrument :

MSVOA_L

ClientSampleId :

ICVVL032725

Tgt Ion: 91 Resp: 556897

Ion Ratio Lower Upper

91 100

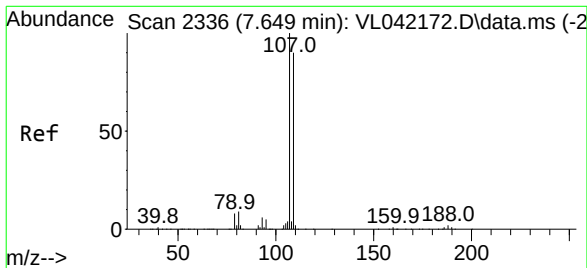
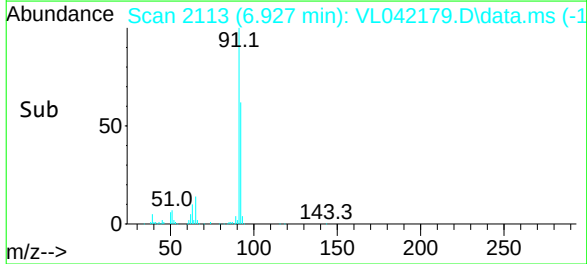
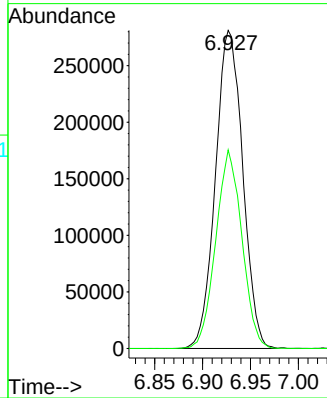
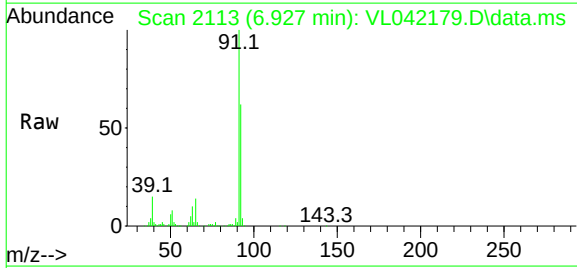
92 59.8 48.4 72.6

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 03/31/2025

Supervised By :Mahesh Dadoda 04/03/2025



#54

1,2-Dibromoethane

Concen: 9.695 ppbv

RT: 7.645 min Scan# 2335

Delta R.T. -0.003 min

Lab File: VL042179.D

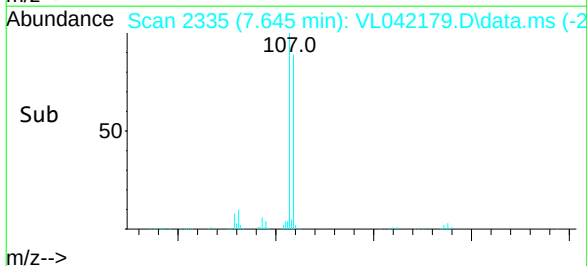
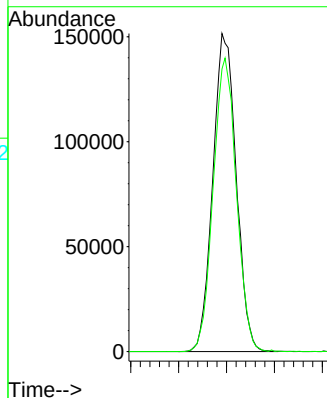
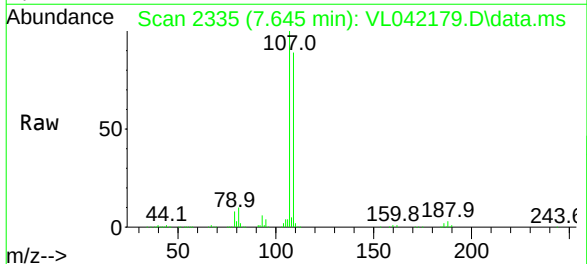
Acq: 27 Mar 2025 12:23

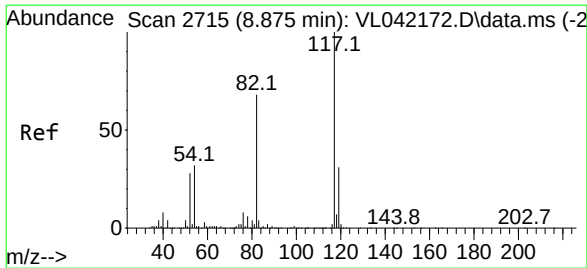
Tgt Ion:107 Resp: 256930

Ion Ratio Lower Upper

107 100

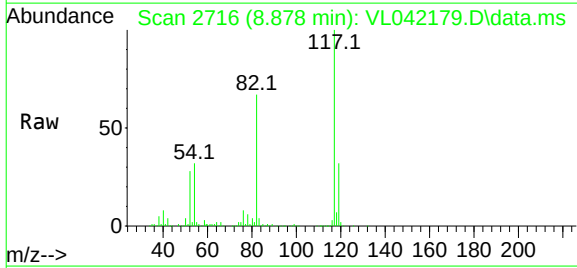
109 88.9 72.2 108.4





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.878 min Scan# 2715
Delta R.T. 0.003 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

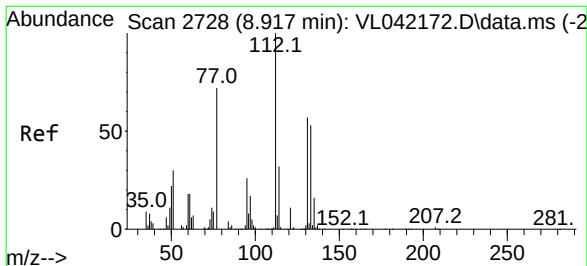
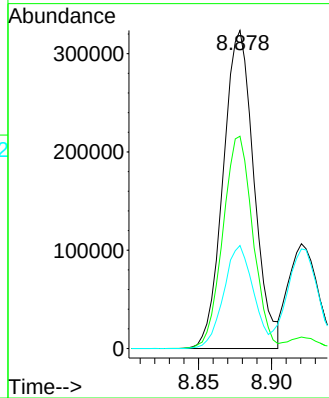
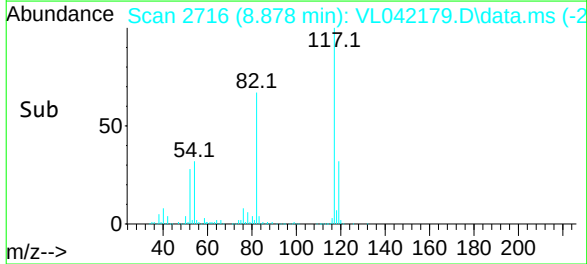
Instrument : MSVOA_L
ClientSampleId : ICVVL032725



Tgt Ion:117 Resp: 473357
Ion Ratio Lower Upper
117 100
82 68.7 55.8 83.6
119 31.2 25.5 38.3

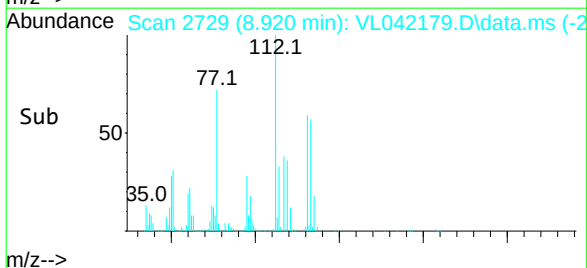
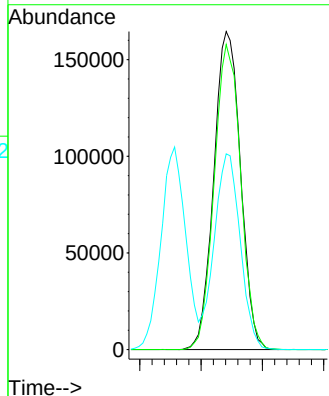
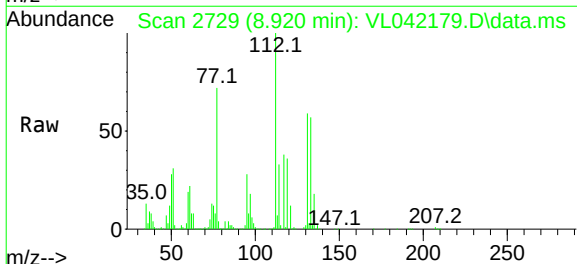
Manual Integrations
APPROVED

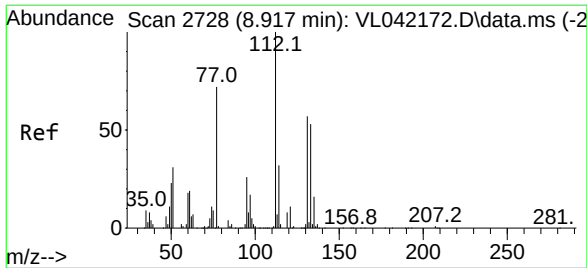
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#56
1,1,1,2-Tetrachloroethane
Concen: 9.567 ppbv
RT: 8.920 min Scan# 2729
Delta R.T. 0.003 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

Tgt Ion:131 Resp: 249270
Ion Ratio Lower Upper
131 100
133 95.0 76.6 114.8
119 61.3 49.8 74.6





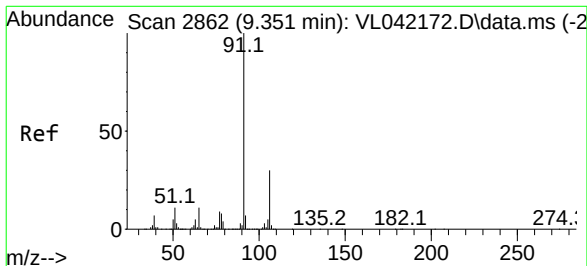
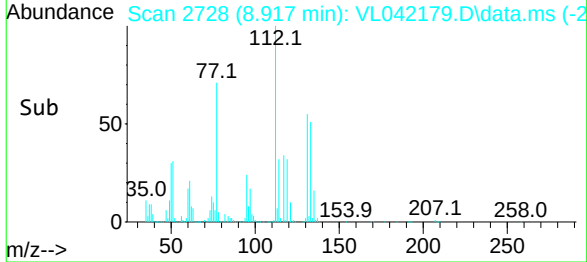
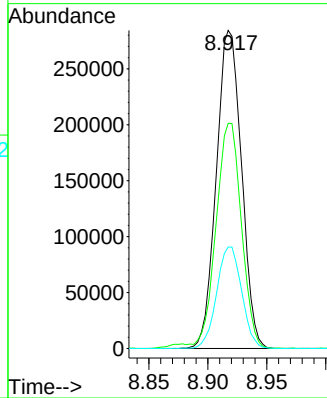
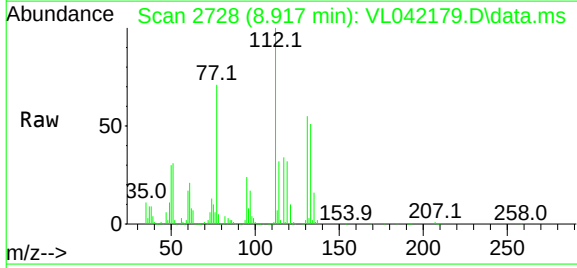
#57
Chlorobenzene
Concen: 9.411 ppbv
RT: 8.917 min Scan# 2728
Delta R.T. -0.000 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

Instrument : MSVOA_L
ClientSampleId : ICVVL032725

Tgt Ion: 112 Resp: 422531
Ion Ratio Lower Upper
112 100
77 70.6 58.2 87.2
114 31.9 29.1 35.5

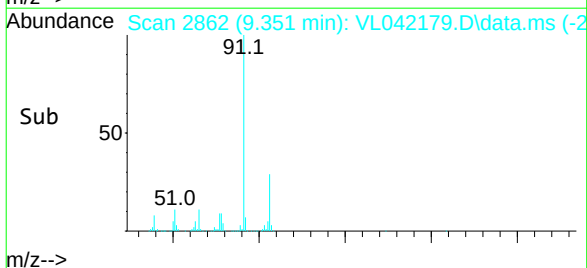
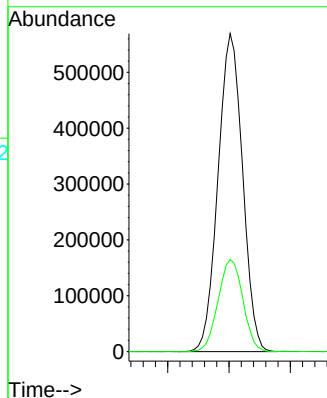
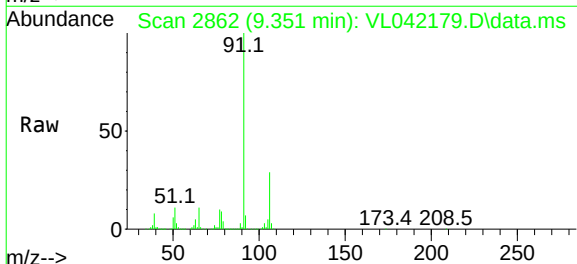
Manual Integrations
APPROVED

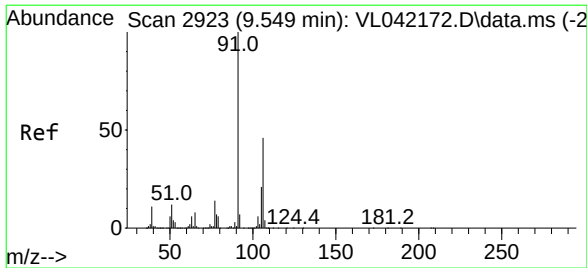
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#58
Ethyl Benzene
Concen: 9.412 ppbv
RT: 9.351 min Scan# 2862
Delta R.T. -0.000 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

Tgt Ion: 91 Resp: 791360
Ion Ratio Lower Upper
91 100
106 28.9 24.2 36.2





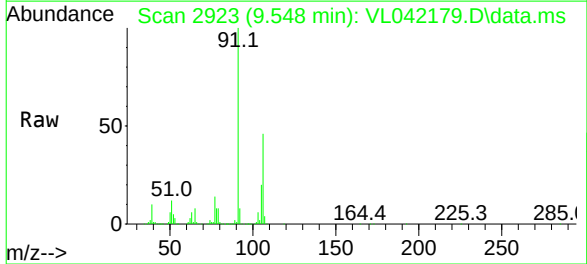
#59
m/p-Xylene
Concen: 18.772 ppbv m
RT: 9.548 min Scan# 2923
Delta R.T. -0.000 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

Instrument :

MSVOA_L

ClientSampleId :

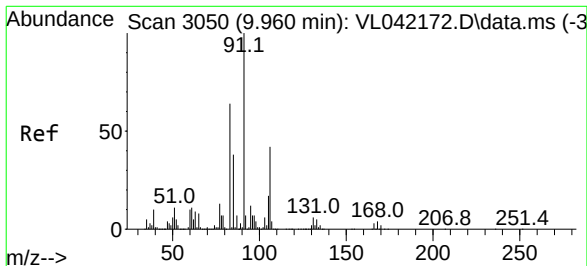
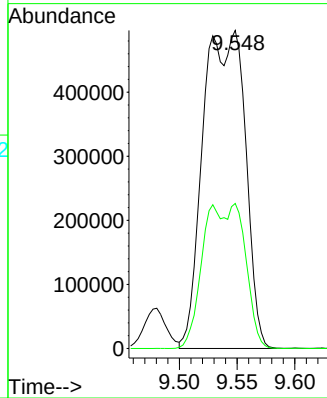
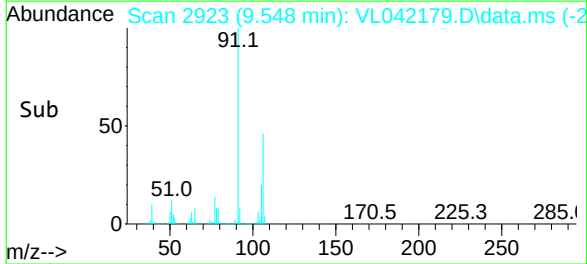
ICVVL032725



Tgt Ion: 91 Resp: 1260340
Ion Ratio Lower Upper
91 100
106 45.3 36.4 54.6

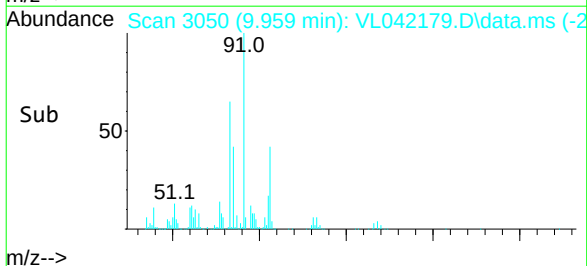
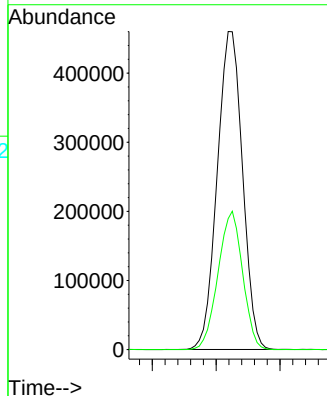
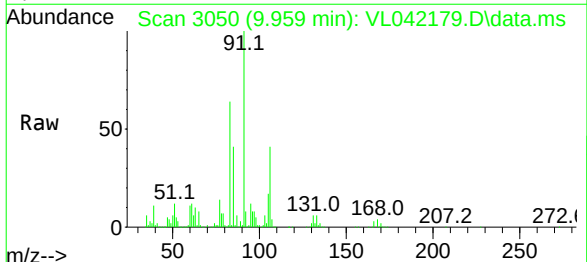
Manual Integrations
APPROVED

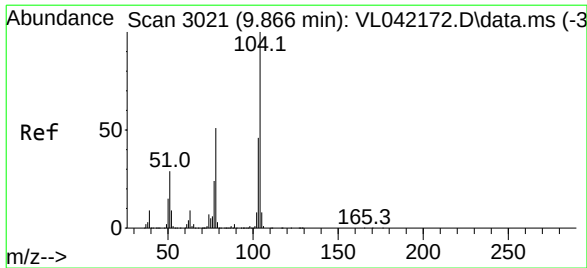
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#60
o-Xylene
Concen: 9.404 ppbv
RT: 9.959 min Scan# 3050
Delta R.T. -0.000 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

Tgt Ion: 91 Resp: 632918
Ion Ratio Lower Upper
91 100
106 42.2 20.8 62.5





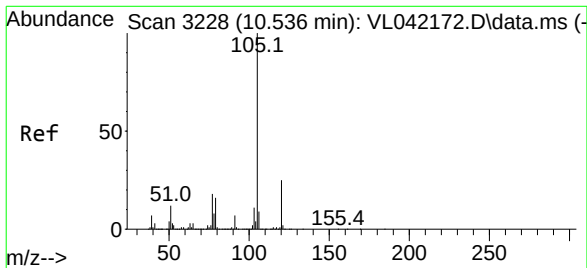
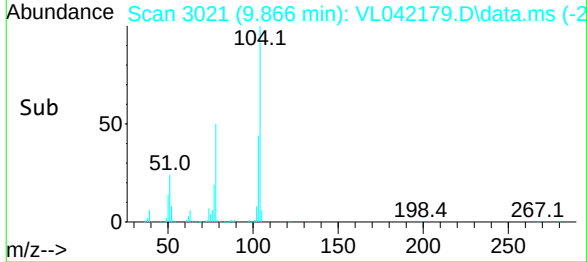
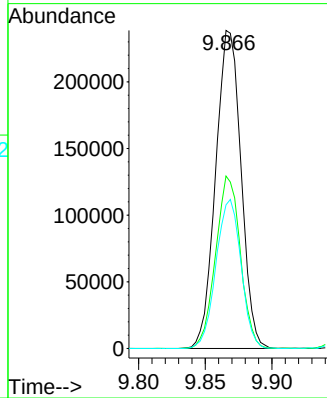
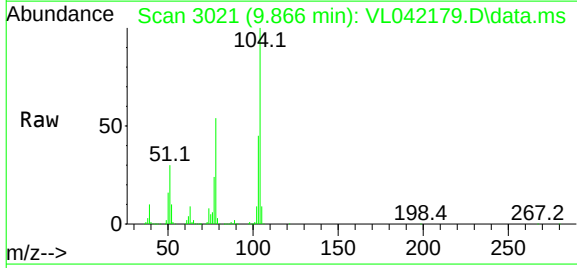
#61
Styrene
Concen: 9.488 ppbv
RT: 9.866 min Scan# 3021
Delta R.T. -0.000 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

Instrument : MSVOA_L
ClientSampleId : ICVVL032725

Tgt Ion:104 Resp: 315910
Ion Ratio Lower Upper
104 100
78 52.8 41.8 62.6
103 46.3 37.0 55.4

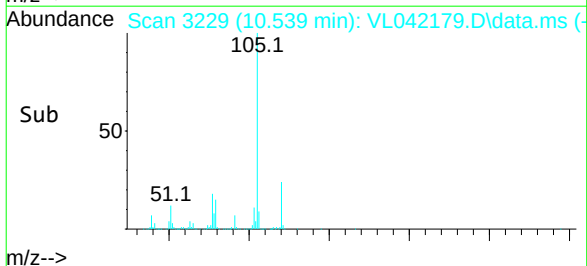
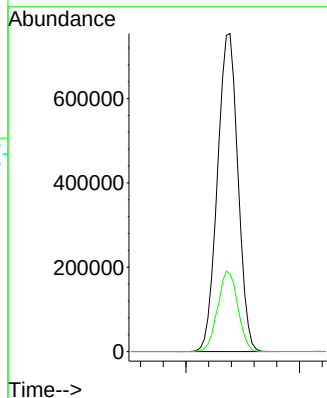
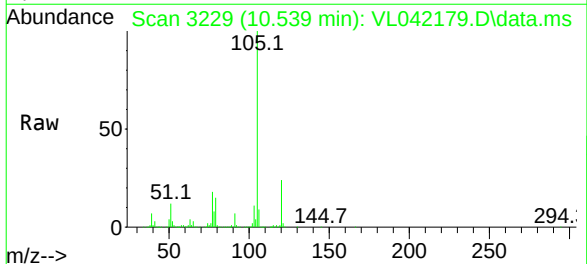
Manual Integrations
APPROVED

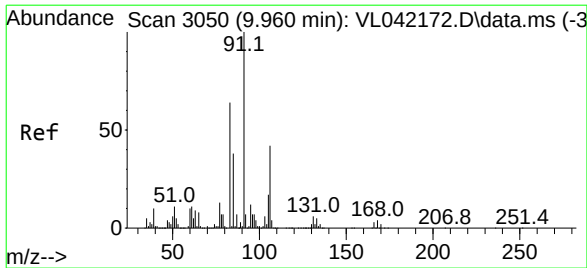
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#62
Isopropylbenzene
Concen: 9.388 ppbv
RT: 10.539 min Scan# 3229
Delta R.T. 0.003 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

Tgt Ion:105 Resp: 944938
Ion Ratio Lower Upper
105 100
120 24.9 19.9 29.9





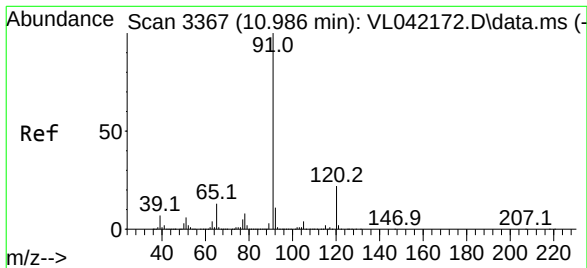
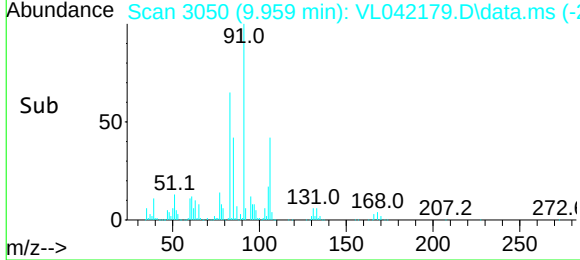
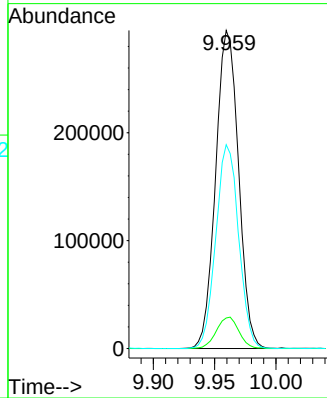
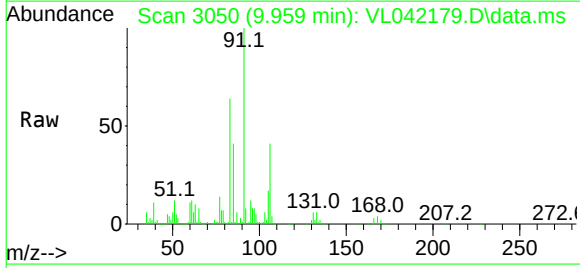
#63
1,1,2,2-Tetrachloroethane
Concen: 9.357 ppbv
RT: 9.959 min Scan# 3050
Delta R.T. -0.000 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

Instrument : MSVOA_L
ClientSampleId : ICVVL032725

Tgt Ion:	83	Resp:	382635
Ion	Ratio	Lower	Upper
83	100		
131	9.7	4.8	14.4
85	63.9	32.5	97.5

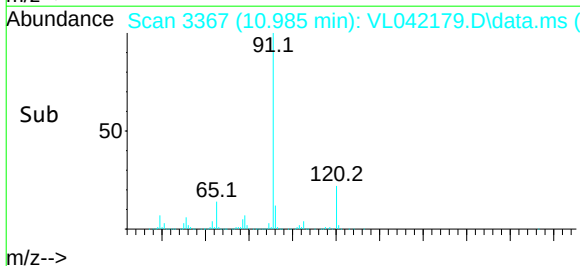
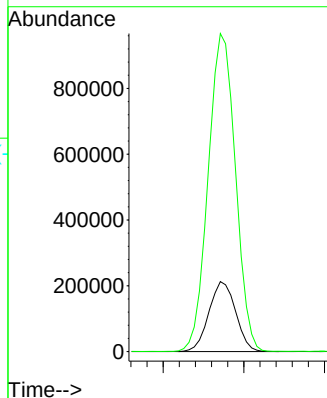
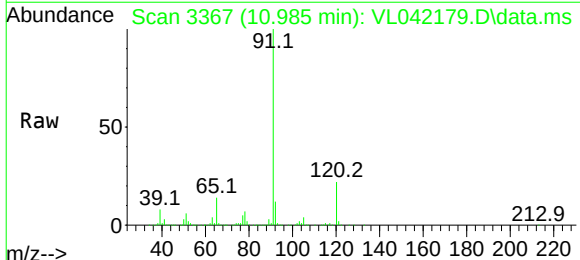
Manual Integrations APPROVED

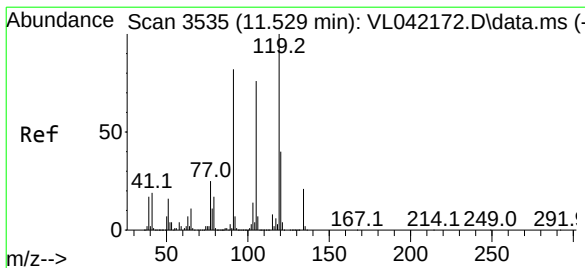
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#64
n-propylbenzene
Concen: 9.439 ppbv
RT: 10.985 min Scan# 3367
Delta R.T. -0.000 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

Tgt Ion:	120	Resp:	244547
Ion	Ratio	Lower	Upper
120	100		
91	465.9	376.9	565.3





#65

tert-Butylbenzene

Concen: 9.065 ppbv

RT: 11.529 min Scan# 3535

Delta R.T. -0.000 min

Lab File: VL042179.D

Acq: 27 Mar 2025 12:23

Instrument :

MSVOA_L

ClientSampleId :

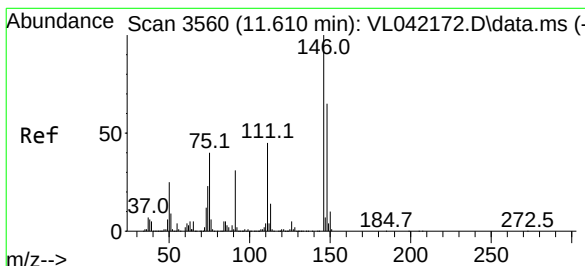
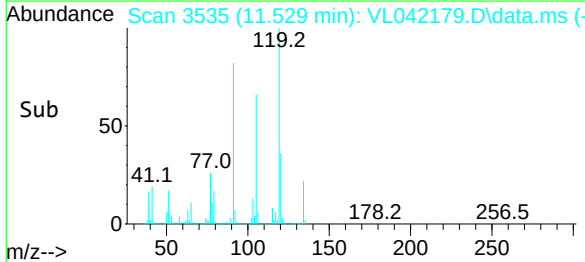
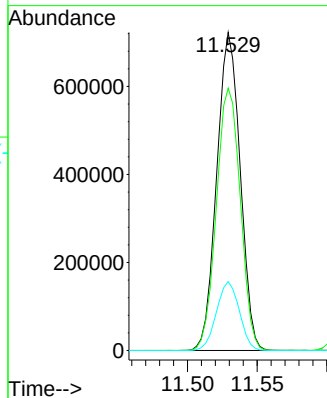
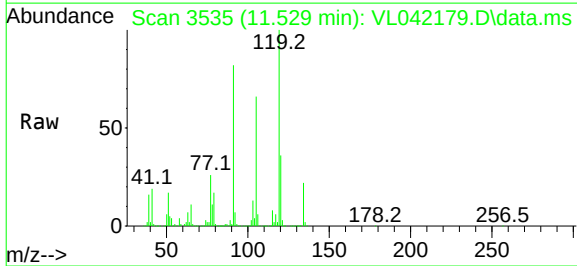
ICVVL032725

Tgt Ion:	119	Resp:	843828
Ion	Ratio	Lower	Upper
119	100		
91	84.3	66.0	99.0
134	21.2	16.7	25.1

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#66

Benzyl Chloride

Concen: 8.789 ppbv

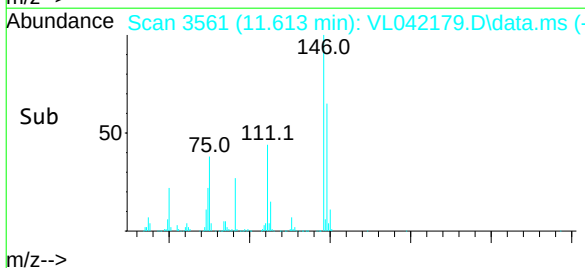
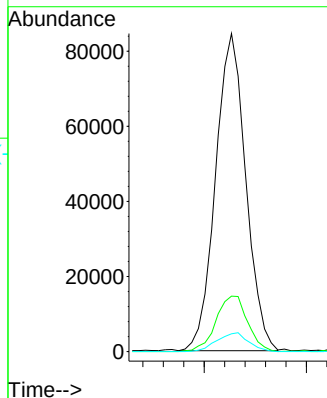
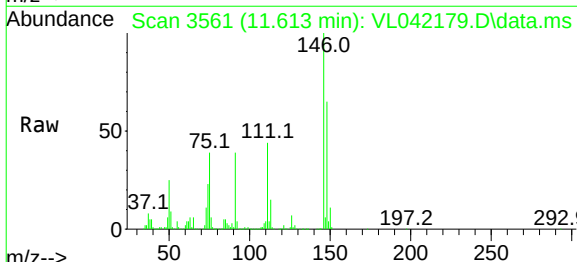
RT: 11.613 min Scan# 3561

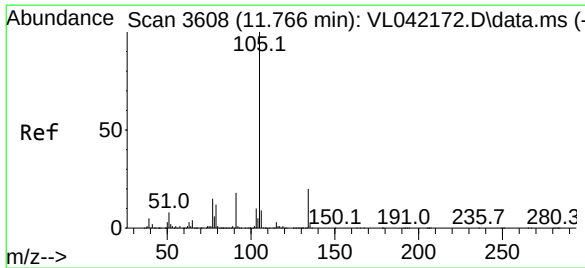
Delta R.T. 0.003 min

Lab File: VL042179.D

Acq: 27 Mar 2025 12:23

Tgt Ion:	91	Resp:	86804
Ion	Ratio	Lower	Upper
91	100		
126	18.5	13.8	20.6
128	6.2	4.5	6.7





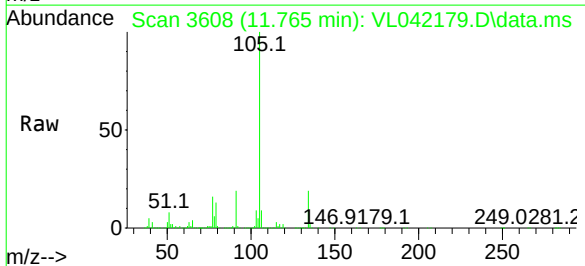
#67
 sec-Butylbenzene
 Concen: 9.063 ppbv
 RT: 11.765 min Scan# 3608
 Delta R.T. -0.000 min
 Lab File: VL042179.D
 Acq: 27 Mar 2025 12:23

Instrument :

MSVOA_L

ClientSampleId :

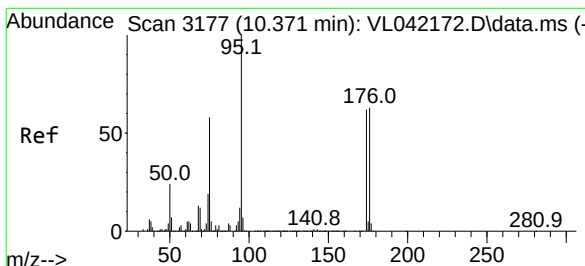
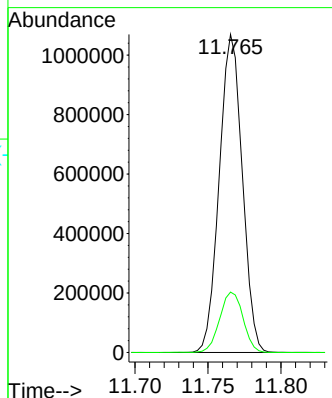
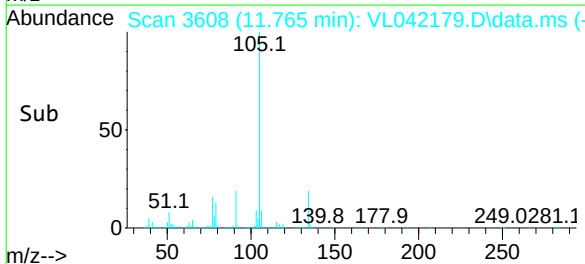
ICVVL032725



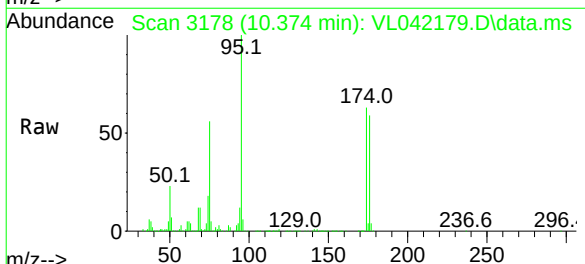
Tgt Ion: 105 Resp: 1172636
 Ion Ratio Lower Upper
 105 100
 134 19.4 15.5 23.3

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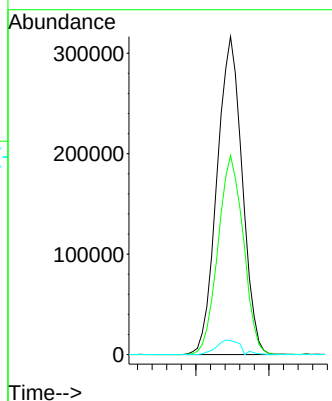
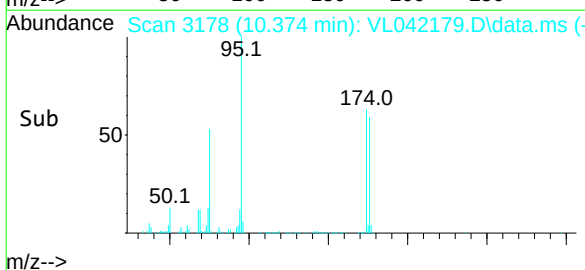
Reviewed By : Semsettin Yesilyurt 03/31/2025
 Supervised By : Mahesh Dadoda 04/03/2025

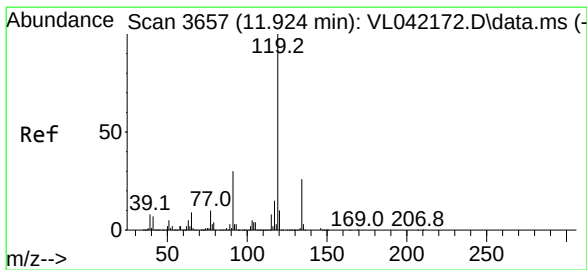


#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.774 ppbv
 RT: 10.374 min Scan# 3178
 Delta R.T. 0.003 min
 Lab File: VL042179.D
 Acq: 27 Mar 2025 12:23



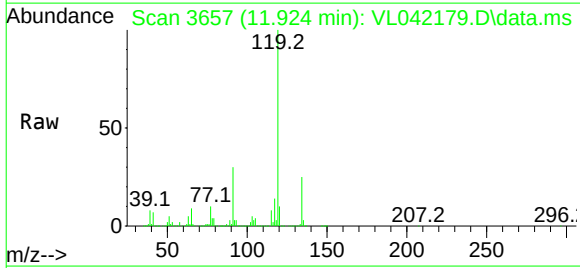
Tgt Ion: 95 Resp: 379929
 Ion Ratio Lower Upper
 95 100
 174 63.0 50.6 76.0
 175 4.4 3.8 5.6





#69
p-Isopropyltoluene
Concen: 9.153 ppbv
RT: 11.924 min Scan# 3657
Delta R.T. -0.000 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

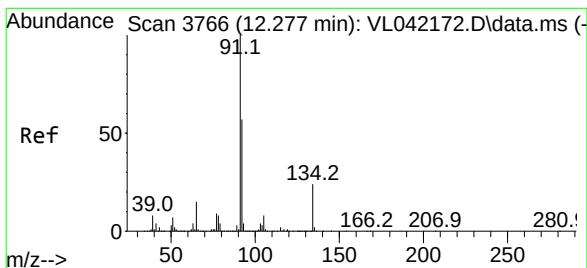
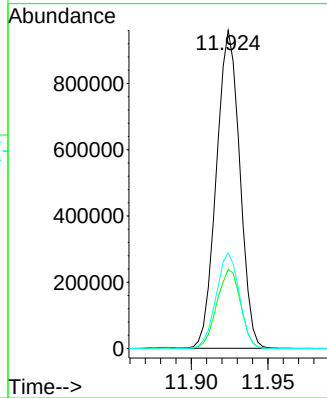
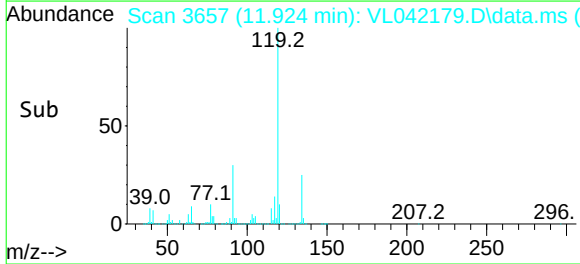
Instrument : MSVOA_L
ClientSampleId : ICVVL032725



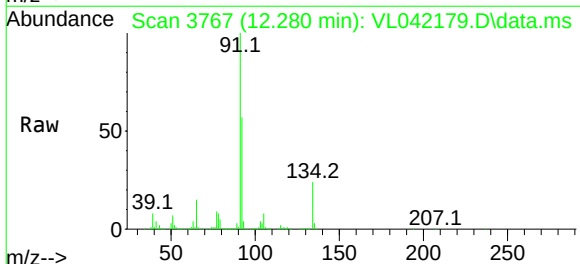
Tgt Ion: 119 Resp: 1019694
Ion Ratio Lower Upper
119 100
134 25.3 20.4 30.6
91 29.9 23.7 35.5

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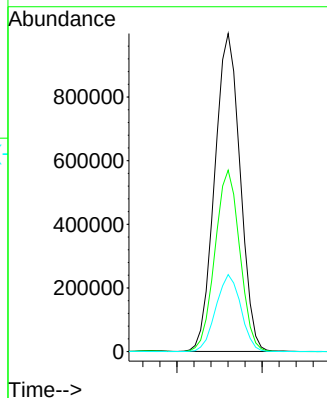
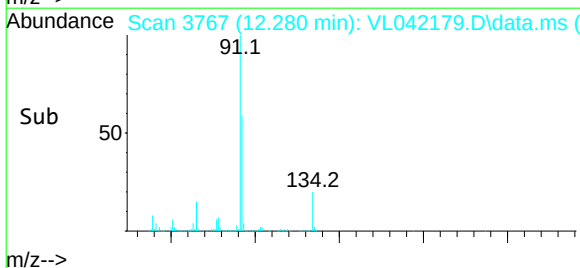
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025

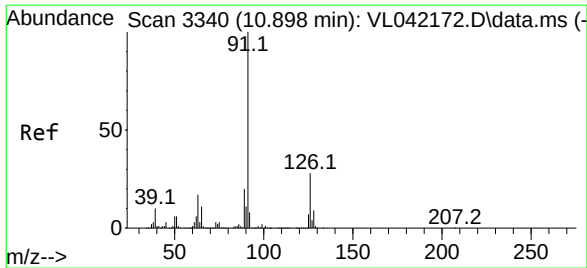


#70
n-Butylbenzene
Concen: 9.115 ppbv
RT: 12.280 min Scan# 3767
Delta R.T. 0.003 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23



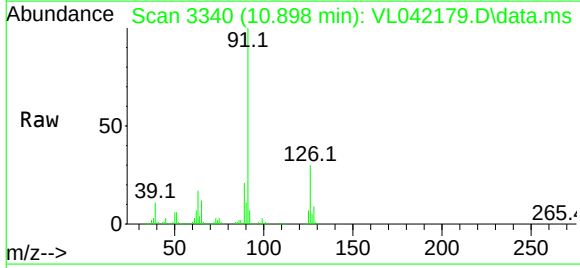
Tgt Ion: 91 Resp: 1038548
Ion Ratio Lower Upper
91 100
92 56.0 44.9 67.3
134 23.8 19.2 28.8





#71
2-Chlorotoluene
Concen: 9.382 ppbv
RT: 10.898 min Scan# 3340
Delta R.T. -0.000 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

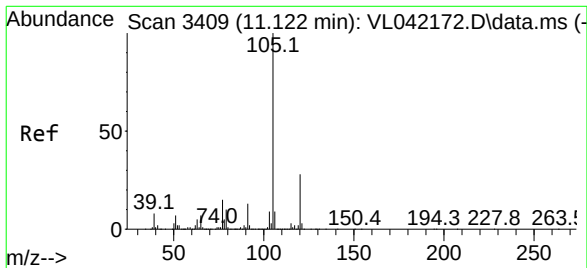
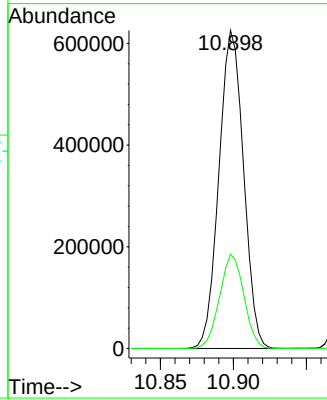
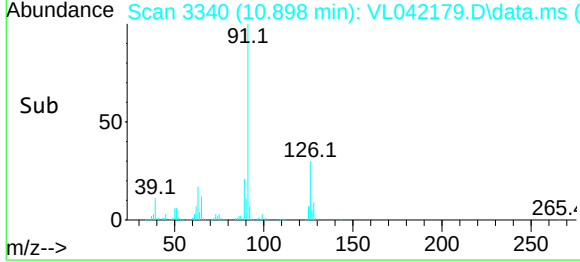
Instrument : MSVOA_L
ClientSampleId : ICVVL032725



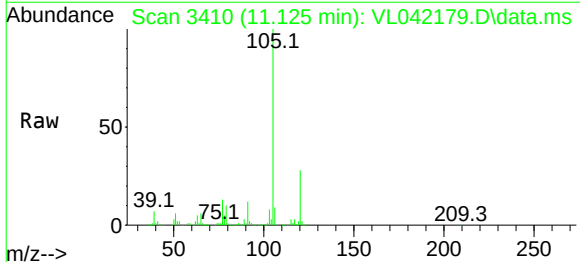
Tgt Ion: 91 Resp: 732874
Ion Ratio Lower Upper
91 100
126 29.2 11.6 46.4

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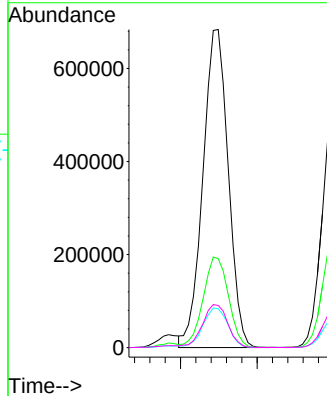
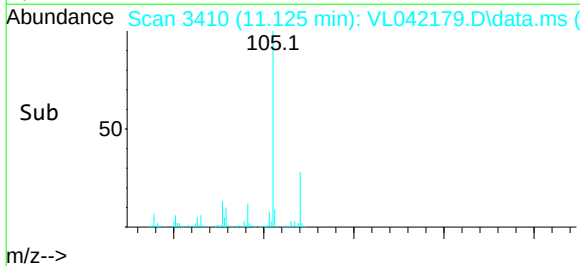
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025

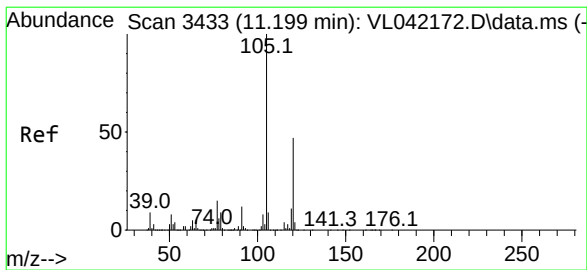


#72
4-Ethyltoluene
Concen: 9.370 ppbv
RT: 11.125 min Scan# 3410
Delta R.T. 0.003 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23



Tgt Ion:105 Resp: 785185
Ion Ratio Lower Upper
105 100
120 29.6 23.4 35.0
91 12.9 10.3 15.5
77 14.1 11.4 17.2





#73

1,3,5-Trimethylbenzene

Concen: 9.203 ppbv

RT: 11.202 min Scan# 3433

Delta R.T. 0.003 min

Lab File: VL042179.D

Acq: 27 Mar 2025 12:23

Instrument :

MSVOA_L

ClientSampleId :

ICVVL032725

Tgt Ion:105 Resp: 673541

Ion Ratio Lower Upper

105 100

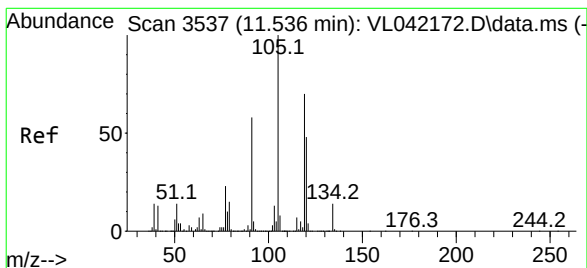
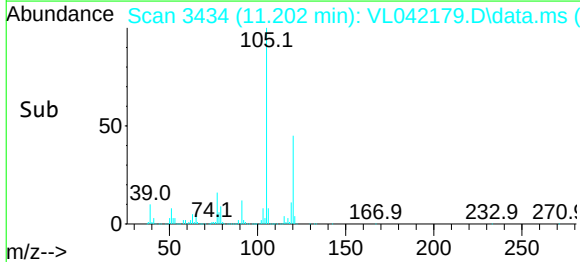
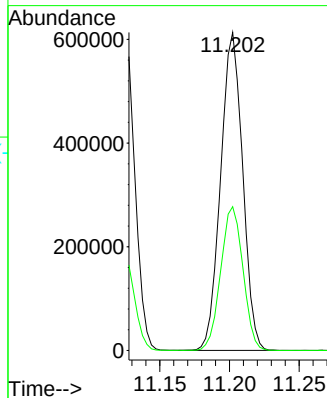
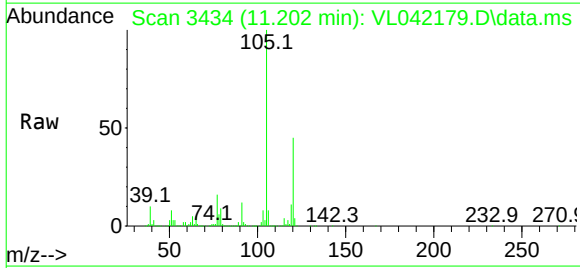
120 45.2 37.4 56.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 03/31/2025

Supervised By :Mahesh Dadoda 04/03/2025



#74

1,2,4-Trimethylbenzene

Concen: 8.648 ppbv

RT: 11.536 min Scan# 3537

Delta R.T. -0.000 min

Lab File: VL042179.D

Acq: 27 Mar 2025 12:23

Tgt Ion:105 Resp: 729155

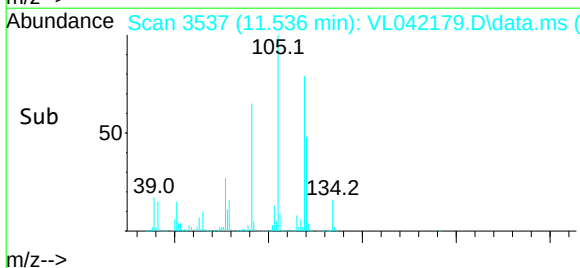
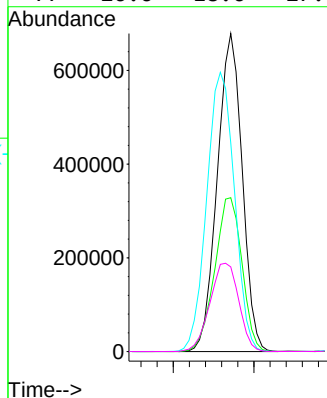
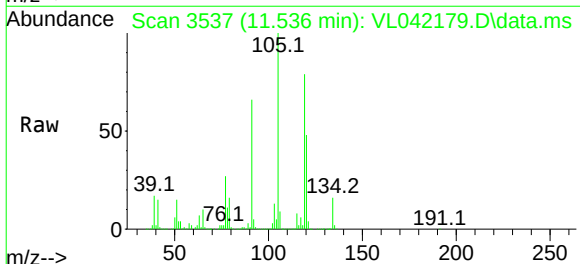
Ion Ratio Lower Upper

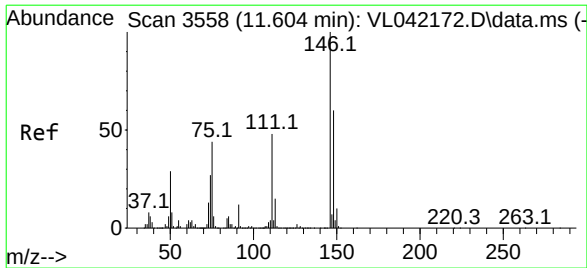
105 100

120 48.4 38.6 58.0

91 65.6 46.2 69.2

77 26.6 18.6 27.8





#75

1,3-Dichlorobenzene

Concen: 9.224 ppbv

RT: 11.607 min Scan# 3558

Delta R.T. 0.003 min

Lab File: VL042179.D

Acq: 27 Mar 2025 12:23

Instrument :

MSVOA_L

ClientSampleId :

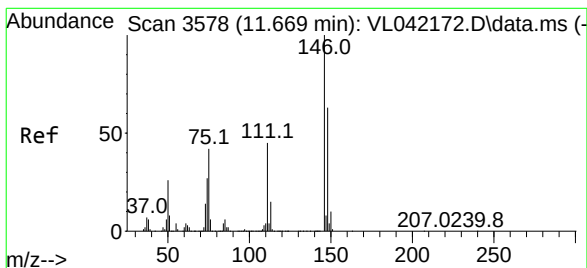
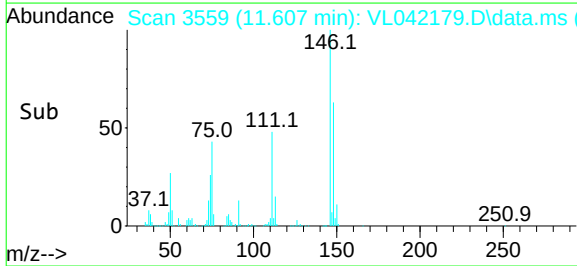
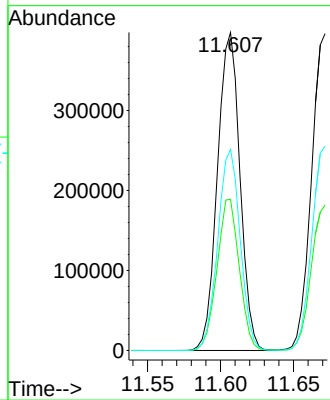
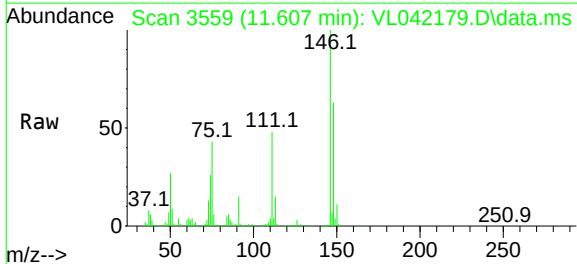
ICVVL032725

Tgt Ion:	146	Resp:	426573
Ion Ratio	Lower	Upper	
146	100		
111	47.2	23.8	71.2
148	62.9	31.9	95.9

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#76

1,4-Dichlorobenzene

Concen: 9.263 ppbv

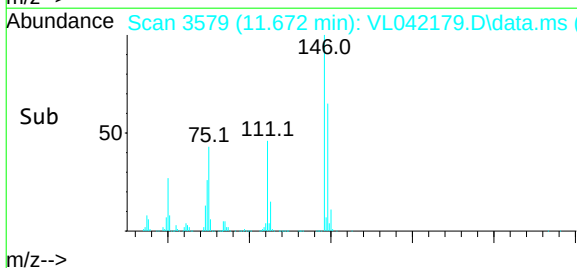
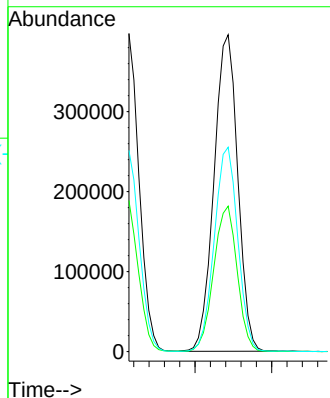
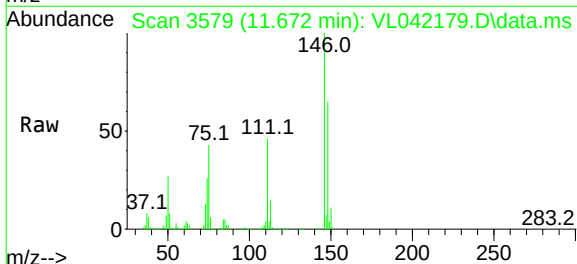
RT: 11.672 min Scan# 3579

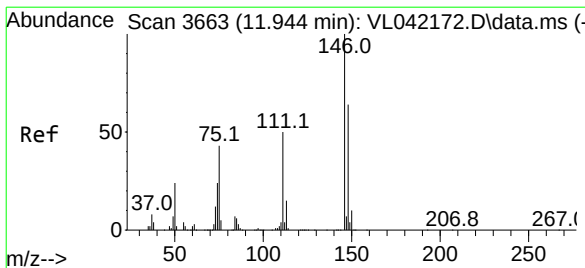
Delta R.T. 0.003 min

Lab File: VL042179.D

Acq: 27 Mar 2025 12:23

Tgt Ion:	146	Resp:	426318
Ion Ratio	Lower	Upper	
146	100		
111	45.6	23.0	69.0
148	64.1	31.9	95.7





#77

1,2-Dichlorobenzene

Concen: 9.154 ppbv

RT: 11.947 min Scan# 3663

Delta R.T. 0.003 min

Lab File: VL042179.D

Acq: 27 Mar 2025 12:23

Instrument :

MSVOA_L

ClientSampleId :

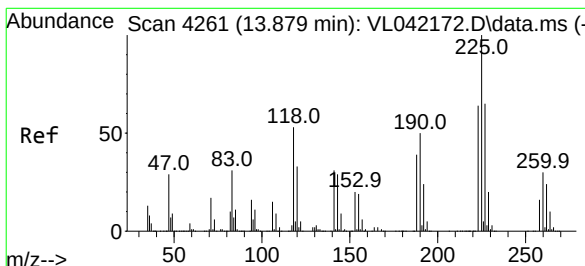
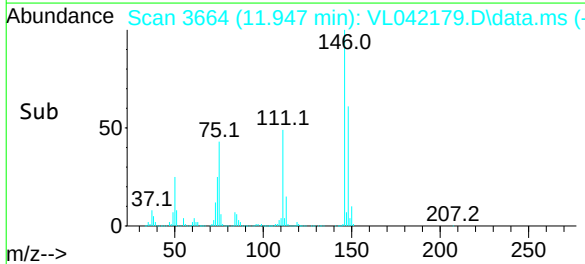
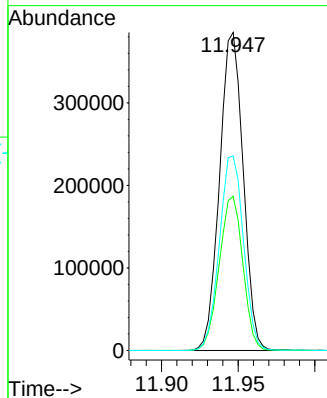
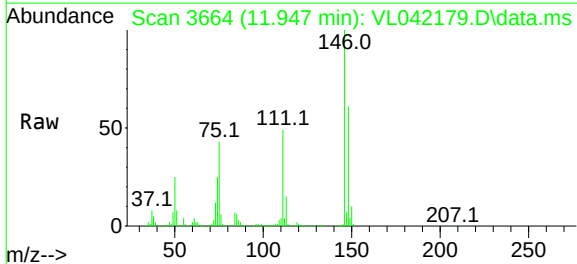
ICVVL032725

Tgt Ion:	146	Resp:	412180
Ion Ratio	Lower	Upper	
146	100		
111	48.8	24.8	74.3
148	62.8	31.6	94.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#78

Hexachloro-1,3-Butadiene

Concen: 7.776 ppbv

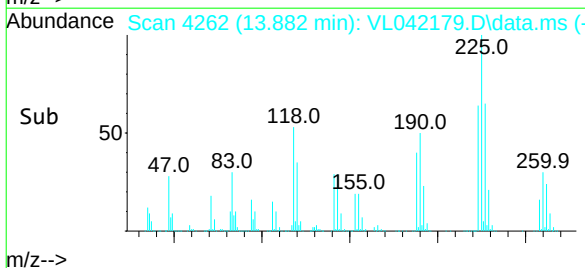
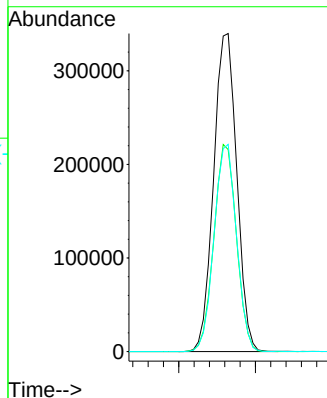
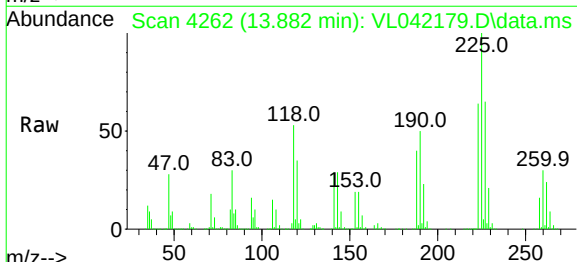
RT: 13.882 min Scan# 4262

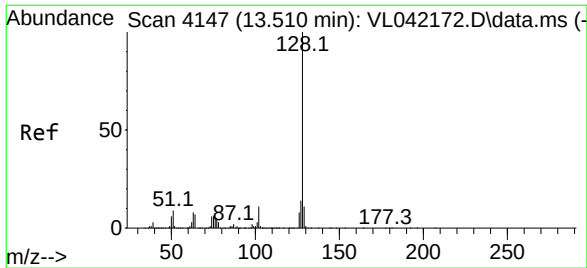
Delta R.T. 0.003 min

Lab File: VL042179.D

Acq: 27 Mar 2025 12:23

Tgt Ion:	225	Resp:	356386
Ion Ratio	Lower	Upper	
225	100		
223	63.4	50.6	76.0
227	63.4	51.2	76.8





#79

Naphthalene

Concen: 8.385 ppbv

RT: 13.513 min Scan# 4147

Delta R.T. 0.003 min

Lab File: VL042179.D

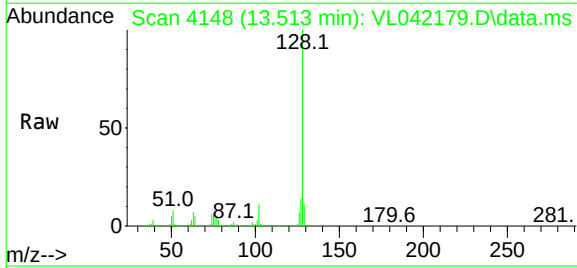
Acq: 27 Mar 2025 12:23

Instrument :

MSVOA_L

ClientSampleId :

ICVVL032725

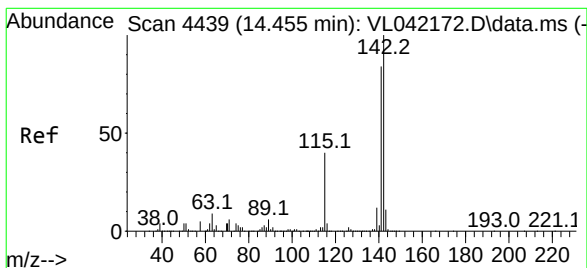
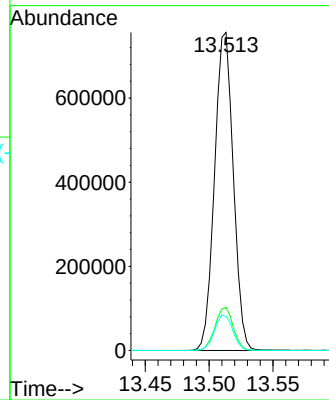
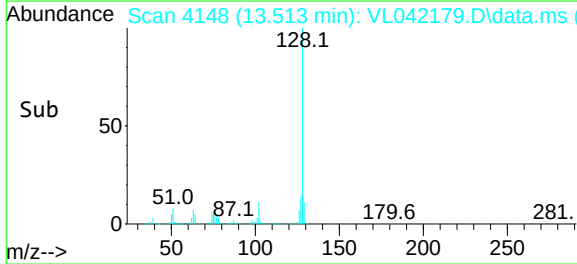


Tgt Ion:	128	Resp:	773311
Ion	Ratio	Lower	Upper
128	100		
127	13.6	10.8	16.2
129	10.7	9.0	13.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#80

Naphthalene, 2-methyl-

Concen: 7.151 ppbv

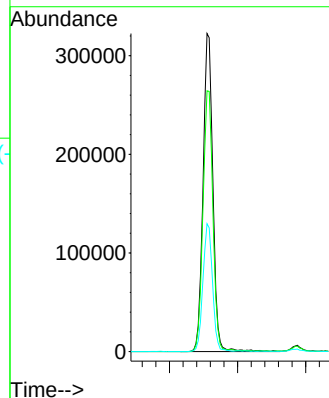
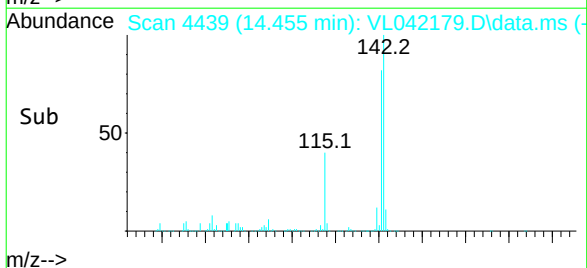
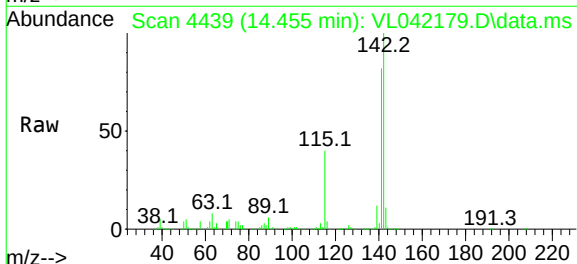
RT: 14.455 min Scan# 4439

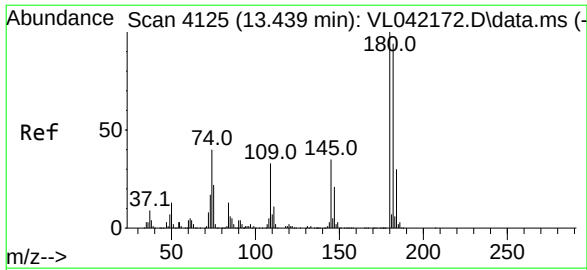
Delta R.T. -0.000 min

Lab File: VL042179.D

Acq: 27 Mar 2025 12:23

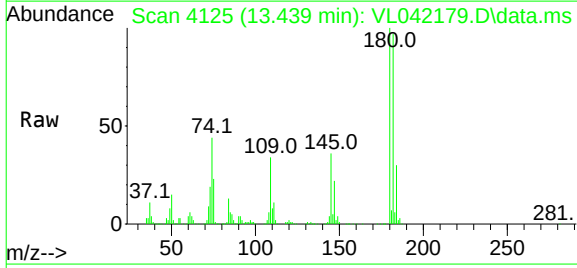
Tgt Ion:	142	Resp:	323443
Ion	Ratio	Lower	Upper
142	100		
141	83.5	66.3	99.5
115	39.8	31.6	47.4





#81
1,2,4-Trichlorobenzene
Concen: 8.553 ppbv
RT: 13.439 min Scan# 41
Delta R.T. -0.000 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

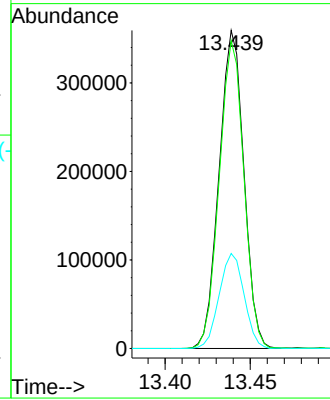
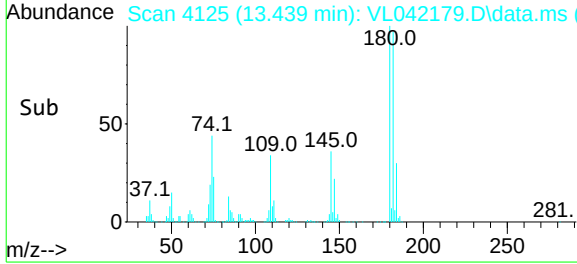
Instrument :
MSVOA_L
ClientSampleId :
ICVVL032725



Tgt Ion:180 Resp: 363863
Ion Ratio Lower Upper
180 100
182 96.2 75.1 112.7
184 30.1 24.4 36.6

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
 Data File : VL042179.D
 Acq On : 27 Mar 2025 12:23
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICSVVL032725

Quant Time: Mar 28 02:05:15 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri Mar 28 02:00:52 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	1.476	1.409	4.5	94	0.00
3	Chlorodifluoromethane	1.508	1.417	6.0	91	0.00
4	Chloromethane	0.603	0.565	6.3	92	0.00
5 T	Vinyl Chloride	0.639	0.548	14.2	93	0.00
6 T	Bromomethane	0.273	0.241	11.7	87	0.00
7	Chloroethane	0.242	0.215	11.2	88	0.00
8 T	Dichlorotetrafluoroethane	1.257	1.226	2.5	94	0.00
9 T	Propene	0.691	0.604	12.6	85	0.00
10 T	Heptane	1.839	1.714	6.8	89	0.00
11 T	Trichlorofluoromethane	1.437	1.358	5.5	95	0.00
12 T	1,1,2-Trichlorotrifluoroeth	1.181	1.113	5.8	93	0.00
13	Ethanol	0.065	0.033#	49.2#	108	0.00
14 T	Bromoethene	0.452	0.422	6.6	94	0.00
15 T	Acetone	1.399	1.137	18.7	95	0.00
16 T	1,3-Butadiene	0.683	0.561	17.9	91	0.00
17	tert-Butyl alcohol	1.742	1.584	9.1	91	0.00
18 T	1,1-Dichloroethene	0.552	0.500	9.4	92	0.00
19 T	Isopropyl Alcohol	0.789	0.704	10.8	93	0.00
20 T	Methylene Chloride	0.521	0.418	19.8	89	0.00
21 T	Allyl Chloride	0.986	0.903	8.4	93	0.00
22 T	trans-1,2-Dichloroethene	0.638	0.580	9.1	92	0.00
23 T	Vinyl Acetate	0.605	0.518	14.4	97	0.00
24 T	1,1-Dichloroethane	1.183	1.135	4.1	94	0.00
25 T	Ethyl Acetate	3.630	3.399	6.4	92	0.00
26 T	Hexane	1.402	1.326	5.4	93	0.00
27 T	Carbon Disulfide	1.503	1.427	5.1	93	0.00
28 T	Methyl tert-Butyl Ether	0.873	0.840	3.8	94	0.00
29 T	Chloroform	2.052	1.974	3.8	95	0.00
30 T	Cyclohexane	1.217	1.135	6.7	91	0.00
31 T	cis-1,2-Dichloroethene	1.423	1.345	5.5	91	0.00
32 T	1,1,1-Trichloroethane	2.349	2.096	10.8	95	0.00
33 I	1,4-Difluorobenzene	1.000	1.000	0.0	91	0.00
34 T	2-Butanone	0.725	0.665	8.3	91	0.00
35 T	Carbon Tetrachloride	0.781	0.730	6.5	95	0.00
36 T	Benzene	0.991	0.926	6.6	91	0.00
37 T	1,2-Dichloroethane	0.568	0.549	3.3	93	0.00
38 T	Trichloroethene	0.414	0.385	7.0	94	0.00
39 T	1,2-Dichloropropane	0.361	0.343	5.0	93	0.00
40 T	1,4-Dioxane	0.192	0.162	15.6	87	0.00
41 T	Tetrahydrofuran	0.418	0.394	5.7	90	0.00
42 T	Bromodichloromethane	0.782	0.771	1.4	92	0.00
43	Methyl Methacrylate	0.420	0.392	6.7	89	0.00
44 T	2,2,4-Trimethylpentane	1.675	1.581	5.6	90	0.00
45 T	t-1,3-Dichloropropene	0.450	0.426	5.3	89	0.00
46 T	cis-1,3-Dichloropropene	0.552	0.532	3.6	88	0.00
47 T	1,1,2-Trichloroethane	0.382	0.368	3.7	92	0.00
48 T	Dibromochloromethane	0.647	0.648	-0.2	93	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
 Data File : VL042179.D
 Acq On : 27 Mar 2025 12:23
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL032725

Quant Time: Mar 28 02:05:15 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri Mar 28 02:00:52 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	0.581	0.572	1.5	90	0.00
50 T	4-Methyl-2-Pentanone	1.149	1.005	12.5	89	0.00
51 T	2-Hexanone	0.944	0.825	12.6	89	0.00
52 T	Tetrachloroethene	0.393	0.348	11.5	93	0.00
53 T	Toluene	1.175	1.118	4.9	91	0.00
54 T	1,2-Dibromoethane	0.532	0.516	3.0	93	0.00
55 I	Chlorobenzene-d5	1.000	1.000	0.0	91	0.00
56	1,1,1,2-Tetrachloroethane	0.550	0.527	4.2	94	0.00
57 T	Chlorobenzene	0.949	0.893	5.9	93	0.00
58 T	Ethyl Benzene	1.776	1.672	5.9	91	0.00
59 T	m/p-Xylene	1.418	1.331	6.1	92	0.00
60 T	o-Xylene	1.422	1.337	6.0	92	0.00
61 T	Styrene	0.703	0.667	5.1	89	0.00
62	Isopropylbenzene	2.126	1.996	6.1	93	0.00
63 T	1,1,2,2-Tetrachloroethane	0.864	0.808	6.5	93	0.00
64	n-propylbenzene	0.547	0.517	5.5	94	0.00
65	tert-Butylbenzene	1.966	1.783	9.3	94	0.00
66 T	Benzyl Chloride	0.209	0.183	12.4	82	0.00
67	sec-Butylbenzene	2.733	2.477	9.4	94	0.00
68 S	1-Bromo-4-Fluorobenzene	0.821	0.803	2.2	90	0.00
69	p-Isopropyltoluene	2.354	2.154	8.5	94	0.00
70	n-Butylbenzene	2.407	2.194	8.8	94	0.00
71	2-Chlorotoluene	1.650	1.548	6.2	92	0.00
72 T	4-Ethyltoluene	1.770	1.659	6.3	93	0.00
73 T	1,3,5-Trimethylbenzene	1.546	1.423	8.0	93	0.00
74 T	1,2,4-Trimethylbenzene	1.781	1.540	13.5	93	0.00
75 T	1,3-Dichlorobenzene	0.977	0.901	7.8	93	0.00
76 T	1,4-Dichlorobenzene	0.972	0.901	7.3	92	0.00
77 T	1,2-Dichlorobenzene	0.951	0.871	8.4	93	0.00
78 T	Hexachloro-1,3-Butadiene	0.968	0.753	22.2	86	0.00
79 T	Naphthalene	1.948	1.634	16.1	82	0.00
80 T	Naphthalene,2-methyl-	0.955	0.683	28.5	63	0.00
81 T	1,2,4-Trichlorobenzene	0.899	0.769	14.5	82	0.00

(#) = Out of Range

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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: WOOD06

Lab Code: CHEM Case No.: Q1725 SAS No.: Q1725 SDG No.: Q1725

Instrument ID: MSVOA_L Calibration Date/Time: 04/07/2025 09:31

Lab File ID: VL042228.D Init. Calib. Date(s): 03/27/2025 03/27/2025

Heated Purge: (Y/N) N Init. Calib. Time(s): 08:26 11:36

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

COMPOUND	RRF	RRF010	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	1.476	1.435		-2.78	30
Chloromethane	0.603	0.582		-3.48	30
Vinyl Chloride	0.639	0.535		-16.27	30
Bromomethane	0.273	0.251		-8.06	30
Chloroethane	0.242	0.217		-10.33	30
Tetrahydrofuran	0.418	0.388		-7.18	30
Trichlorofluoromethane	1.437	1.374		-4.38	30
1,1,2-Trichlorotrifluoroethane	1.181	1.102		-6.69	30
Dichlorotetrafluoroethane	1.257	1.211		-3.66	30
tert-Butyl alcohol	1.742	1.479		-15.1	30
Heptane	1.839	1.613		-12.29	30
1,1-Dichloroethene	0.552	0.495		-10.33	30
Acetone	1.399	1.206		-13.8	30
Carbon Disulfide	1.503	1.376		-8.45	30
Methyl tert-Butyl Ether	0.873	0.763		-12.6	30
Methylene Chloride	0.521	0.422		-19	30
trans-1,2-Dichloroethene	0.638	0.555		-13.01	30
1,1-Dichloroethane	1.183	1.103		-6.76	30
Cyclohexane	1.217	1.073		-11.83	30
2-Butanone	0.725	0.698		-3.72	30
Carbon Tetrachloride	0.781	0.829		6.15	30
cis-1,2-Dichloroethene	1.423	1.293		-9.14	30
Chloroform	2.052	2.088		1.75	30
1,1,1-Trichloroethane	2.349	2.152		-8.39	30
2,2,4-Trimethylpentane	1.675	1.606		-4.12	30
Benzene	0.991	0.955		-3.63	30
1,2-Dichloroethane	0.568	0.611		7.57	30
Trichloroethene	0.414	0.393		-5.07	30
1,2-Dichloropropane	0.361	0.342		-5.26	30
Bromodichloromethane	0.782	0.839		7.29	30
4-Methyl-2-Pentanone	1.149	0.996		-13.32	30
Toluene	1.175	1.091		-7.15	30
t-1,3-Dichloropropene	0.450	0.393		-12.67	30
cis-1,3-Dichloropropene	0.552	0.491		-11.05	30
1,1,2-Trichloroethane	0.382	0.391		2.36	30
Dibromochloromethane	0.647	0.675		4.33	30
1,2-Dibromoethane	0.532	0.540		1.5	30
Tetrachloroethene	0.393	0.327		-16.79	30

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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: WOOD06

Lab Code: CHEM Case No.: Q1725 SAS No.: Q1725 SDG No.: Q1725

Instrument ID: MSVOA_L Calibration Date/Time: 04/07/2025 09:31

Lab File ID: VL042228.D Init. Calib. Date(s): 03/27/2025 03/27/2025

Heated Purge: (Y/N) N Init. Calib. Time(s): 08:26 11:36

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

COMPOUND	RRF	RRF010	MIN RRF	%D	MAX%D
Chlorobenzene	0.949	0.983		3.58	30
Ethyl Benzene	1.776	1.756		-1.13	30
m/p-Xylene	1.418	1.468		3.53	30
o-Xylene	1.422	1.462		2.81	30
Styrene	0.703	0.678		-3.56	30
Bromoform	0.581	0.577		-0.69	30
1,1,2,2-Tetrachloroethane	0.864	0.920		6.48	30
2-Chlorotoluene	1.650	1.696		2.79	30
1,3,5-Trimethylbenzene	1.546	1.583		2.39	30
1,2,4-Trimethylbenzene	1.781	1.770		-0.62	30
1,3-Dichlorobenzene	0.977	1.046		7.06	30
1,4-Dichlorobenzene	0.972	1.052		8.23	30
1,2-Dichlorobenzene	0.951	1.034		8.73	30
1,2,4-Trichlorobenzene	0.899	0.888		-1.22	30
Hexachloro-1,3-Butadiene	0.968	0.837		-13.53	30
1,3-Butadiene	0.683	0.575		-15.81	30
Naphthalene	1.948	2.060		5.75	30
4-Ethyltoluene	1.770	1.845		4.24	30
1-Bromo-4-Fluorobenzene	0.821	0.819		-0.24	30
Hexane	1.402	1.268		-9.56	30
Allyl Chloride	0.986	0.882		-10.55	30
1,4-Dioxane	191.626	168.680		-11.97	30
Methyl Methacrylate	0.420	0.361		-14.05	30

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\VL040725\
 Data File : VL042228.D
 Acq On : 07 Apr 2025 09:31
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 04/08/2025
 Supervised By : Mahesh Dadoda 04/09/2025

Quant Time: Apr 08 01:50:24 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2025

QLast Update : Fri Mar 28 02:00:52 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.800	49	190462	10.000	ppbv	0.02
33) 1,4-Difluorobenzene	3.978	114	513778	10.000	ppbv	0.03
55) Chlorobenzene-d5	8.901	117	464477	10.000	ppbv	0.03

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.393 95 380328 9.971 ppbv 0.02
 Spiked Amount 10.000 Range 65 - 135 Recovery = 99.700%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.502	85	273290	9.718	ppbv	100
3) Chlorodifluoromethane	1.479	51	273791	9.530	ppbv	97
4) Chloromethane	1.538	50	110890	9.649	ppbv	96
5) Vinyl Chloride	1.586	62	101851	8.363	ppbv	98
6) Bromomethane	1.674	94	47719	9.162	ppbv	99
7) Chloroethane	1.709	64	41389	8.972	ppbv	95
8) Dichlorotetrafluoroethane	1.560	85	230557	9.627	ppbv	94
9) Propene	1.489	41	103393	7.852	ppbv	99
10) Heptane	5.007	43	307160m	8.770	ppbv	
11) Trichlorofluoromethane	1.884	101	261667	9.563	ppbv	98
12) 1,1,2-Trichlorotrifluo...	2.149	101	209865	9.331	ppbv	98
13) Ethanol	1.729	45	6198	4.979	ppbv	84
14) Bromoethene	1.787	108	72937	8.465	ppbv	98
15) Acetone	1.842	43	229629	8.621	ppbv	94
16) 1,3-Butadiene	1.615	39	109521	8.419	ppbv	100
17) tert-Butyl alcohol	2.049	59	281754	8.492	ppbv	100
18) 1,1-Dichloroethene	2.043	96	94213	8.960	ppbv	97
19) Isopropyl Alcohol	1.894	45	132147	8.793	ppbv	98
20) Methylene Chloride	2.069	84	80384	8.103	ppbv	91
21) Allyl Chloride	2.104	41	167907	8.938	ppbv	96
22) trans-1,2-Dichloroethene	2.350	96	105790	8.705	ppbv	94
23) Vinyl Acetate	2.473	43	97959	8.497	ppbv	98
24) 1,1-Dichloroethane	2.418	63	210138	9.328	ppbv	98
25) Ethyl Acetate	2.849	43	632090	9.143	ppbv	100
26) Hexane	2.839	57	241568	9.046	ppbv	98
27) Carbon Disulfide	2.159	76	262150	9.155	ppbv	96
28) Methyl tert-Butyl Ether	2.450	73	145310	8.740	ppbv	94
29) Chloroform	2.862	83	397772	10.178	ppbv	98
30) Cyclohexane	3.875	84	204416	8.816	ppbv	96
31) cis-1,2-Dichloroethene	2.732	61	246306	9.085	ppbv	98
32) 1,1,1-Trichloroethane	3.383	97	409916	9.162	ppbv	99
34) 2-Butanone	2.570	43	358832	9.632	ppbv	99
35) Carbon Tetrachloride	3.781	117	425964	10.613	ppbv	99
36) Benzene	3.674	78	490813	9.636	ppbv	99
37) 1,2-Dichloroethane	3.234	62	314121	10.772	ppbv	98
38) Trichloroethene	4.574	130	202154	9.512	ppbv	97
39) 1,2-Dichloropropane	4.337	63	175704	9.472	ppbv	92
40) 1,4-Dioxane	4.606	88	86664	8.803	ppbv #	92
41) Tetrahydrofuran	3.069	42	199313	9.290	ppbv	98
42) Bromodichloromethane	4.512	83	430997	10.721	ppbv	99
43) Methyl Methacrylate	4.907	69	185545	8.605	ppbv	98
44) 2,2,4-Trimethylpentane	4.664	57	824962	9.584	ppbv	97
45) t-1,3-Dichloropropene	6.444	75	201676	8.718	ppbv	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040725\
 Data File : VL042228.D
 Acq On : 07 Apr 2025 09:31
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 04/08/2025
 Supervised By :Mahesh Dadoda 04/09/2025

Quant Time: Apr 08 01:50:24 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M

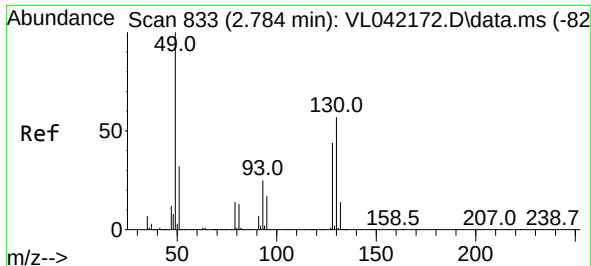
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2025

QLast Update : Fri Mar 28 02:00:52 2025

Response via : Initial Calibration

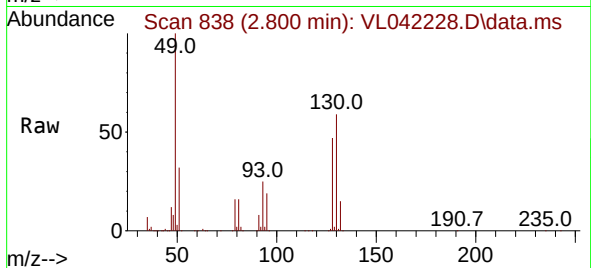
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.632	75	252032	8.888	ppbv	96
47) 1,1,2-Trichloroethane	6.610	97	200780	10.239	ppbv	95
48) Dibromochloromethane	7.412	129	346881	10.438	ppbv	100
49) Bromoform	9.500	173	296338	9.932	ppbv	100
50) 4-Methyl-2-Pentanone	5.781	43	511581	8.665	ppbv	96
51) 2-Hexanone	7.461	43	412183	8.501	ppbv #	94
52) Tetrachloroethene	8.244	164	168107	8.322	ppbv	96
53) Toluene	6.959	91	560665	9.286	ppbv	99
54) 1,2-Dibromoethane	7.678	107	277561	10.154	ppbv	100
56) 1,1,1,2-Tetrachloroethane	8.943	131	274135	10.722	ppbv	99
57) Chlorobenzene	8.940	112	456787	10.368	ppbv	97
58) Ethyl Benzene	9.374	91	815771	9.888	ppbv	99
59) m/p-Xylene	9.568	91	1363568m	20.698	ppbv	
60) o-Xylene	9.982	91	679193	10.284	ppbv	98
61) Styrene	9.888	104	314809	9.635	ppbv	100
62) Isopropylbenzene	10.555	105	1013803	10.265	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.979	83	427404	10.651	ppbv	100
64) n-propylbenzene	11.005	120	265137	10.429	ppbv	99
65) tert-Butylbenzene	11.545	119	928989	10.171	ppbv	99
66) Benzyl Chloride	11.630	91	72224	7.452	ppbv	99
67) sec-Butylbenzene	11.782	105	1298645	10.229	ppbv	100
69) p-Isopropyltoluene	11.940	119	1128593	10.324	ppbv	99
70) n-Butylbenzene	12.296	91	1165845	10.428	ppbv	100
71) 2-Chlorotoluene	10.918	91	787527	10.274	ppbv	100
72) 4-Ethyltoluene	11.141	105	857021	10.422	ppbv	99
73) 1,3,5-Trimethylbenzene	11.219	105	735306	10.239	ppbv	100
74) 1,2,4-Trimethylbenzene	11.552	105	821957	9.935	ppbv	93
75) 1,3-Dichlorobenzene	11.623	146	485669	10.703	ppbv	99
76) 1,4-Dichlorobenzene	11.685	146	488661	10.821	ppbv	98
77) 1,2-Dichlorobenzene	11.963	146	480373	10.873	ppbv	99
78) Hexachloro-1,3-Butadiene	13.895	225	388827	8.646	ppbv	100
79) Naphthalene	13.526	128	956597	10.570	ppbv	99
80) Naphthalene,2-methyl-	14.471	142	462373	10.419	ppbv	98
81) 1,2,4-Trichlorobenzene	13.455	180	412677	9.886	ppbv	98

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



#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.800 min Scan# 81
Delta R.T. 0.016 min
Lab File: VL042228.D
Acq: 07 Apr 2025 09:31

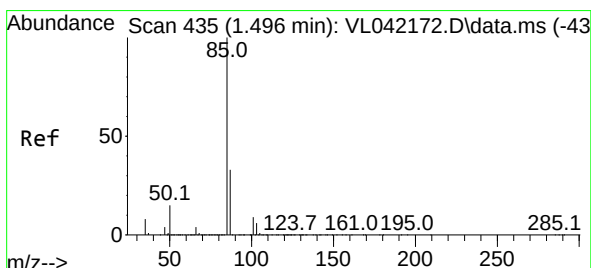
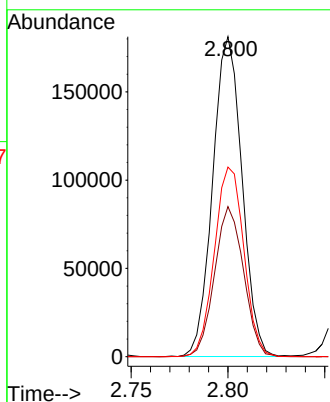
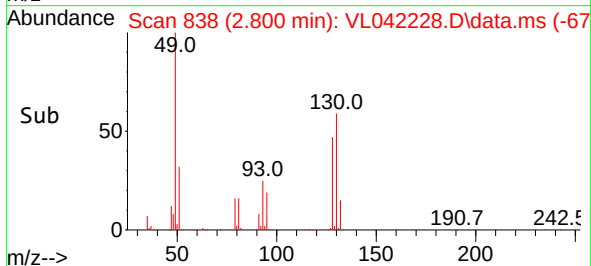
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010



Tgt Ion: 49 Resp: 190462
Ion Ratio Lower Upper
49 100
128 46.4 22.9 68.5
130 59.8 28.8 86.4

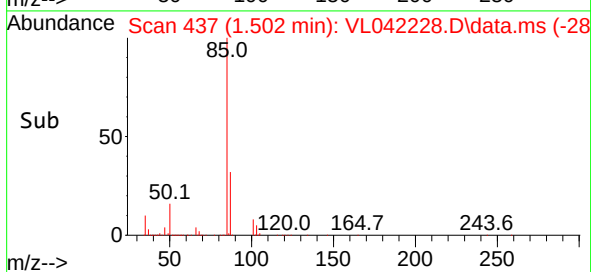
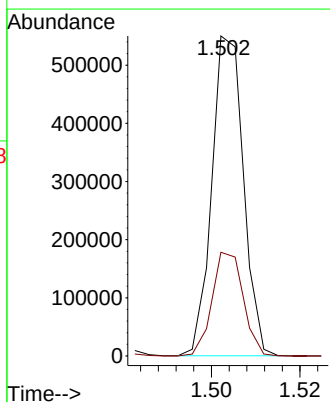
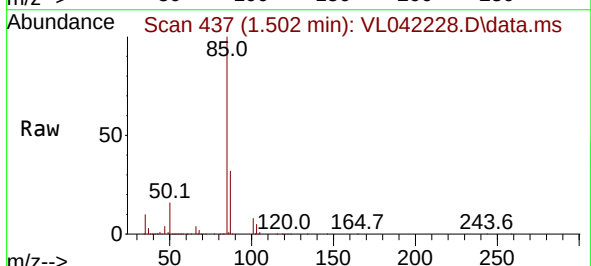
Manual Integrations
APPROVED

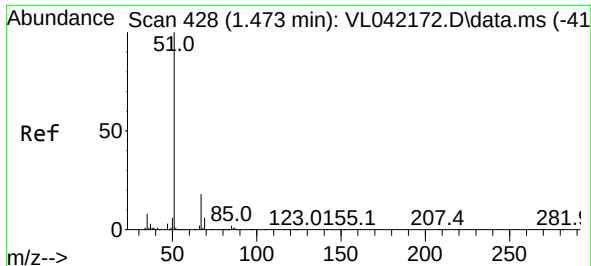
Reviewed By :Semsettin Yesilyurt 04/08/2025
Supervised By :Mahesh Dadoda 04/09/2025



#2
Dichlorodifluoromethane
Concen: 9.718 ppbv
RT: 1.502 min Scan# 437
Delta R.T. 0.006 min
Lab File: VL042228.D
Acq: 07 Apr 2025 09:31

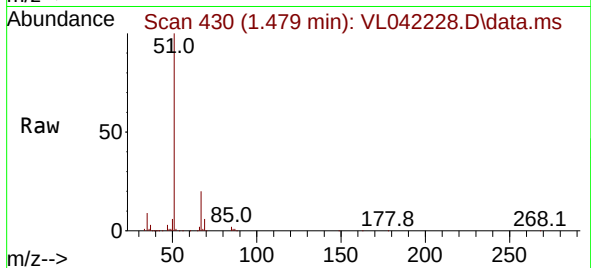
Tgt Ion: 85 Resp: 273290
Ion Ratio Lower Upper
85 100
87 32.4 26.1 39.1





#3
Chlorodifluoromethane
Concen: 9.530 ppbv
RT: 1.479 min Scan# 41
Delta R.T. 0.006 min
Lab File: VL042228.D
Acq: 07 Apr 2025 09:31

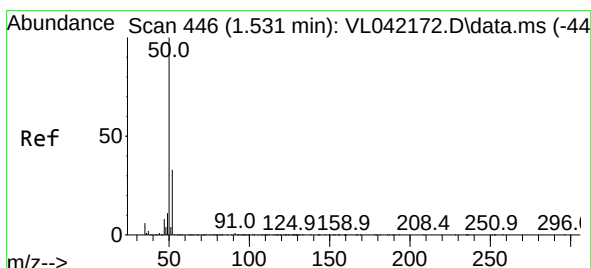
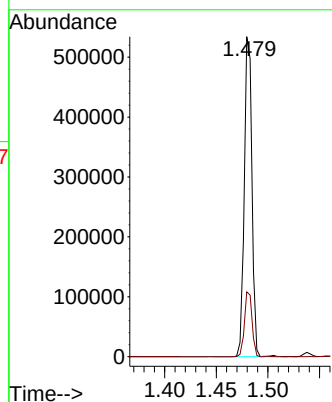
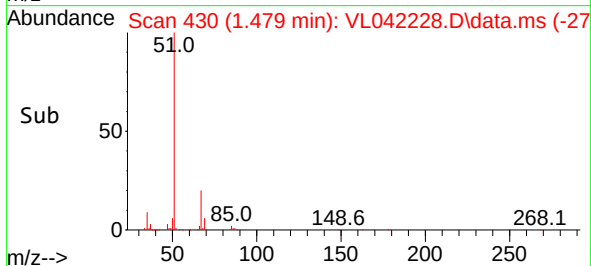
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010



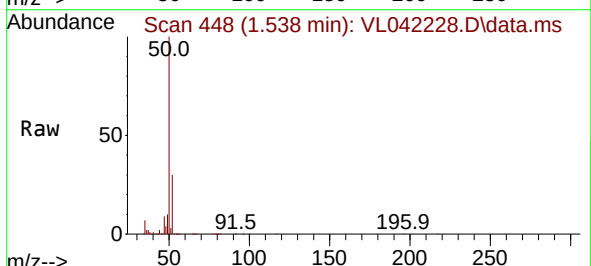
Tgt Ion: 51 Resp: 27379
Ion Ratio Lower Upper
51 100
67 20.2 15.0 22.6

Manual Integrations
APPROVED

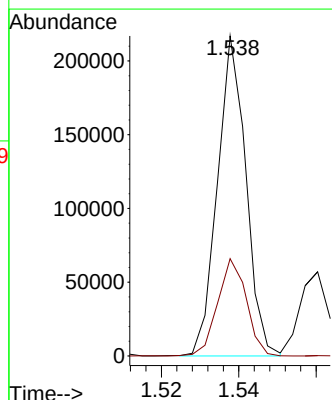
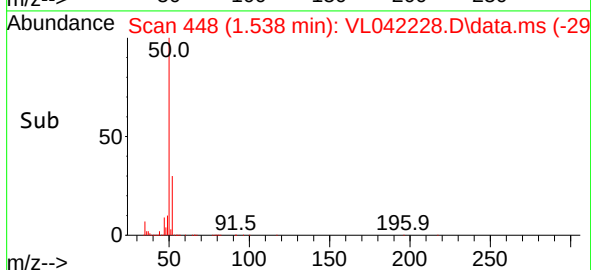
Reviewed By :Semsettin Yesilyurt 04/08/2025
Supervised By :Mahesh Dadoda 04/09/2025

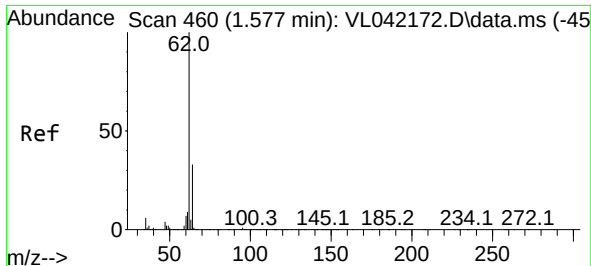


#4
Chloromethane
Concen: 9.649 ppbv
RT: 1.538 min Scan# 448
Delta R.T. 0.006 min
Lab File: VL042228.D
Acq: 07 Apr 2025 09:31



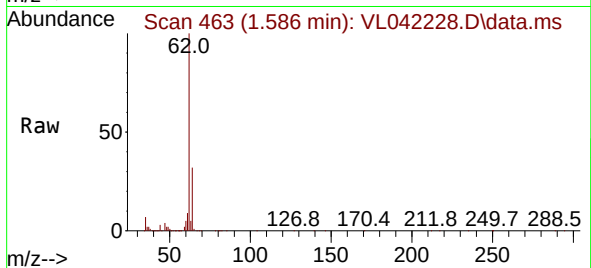
Tgt Ion: 50 Resp: 110890
Ion Ratio Lower Upper
50 100
52 30.4 26.1 39.1





#5
 Vinyl Chloride
 Concen: 8.363 ppbv
 RT: 1.586 min Scan# 40
 Delta R.T. 0.010 min
 Lab File: VL042228.D
 Acq: 07 Apr 2025 09:31

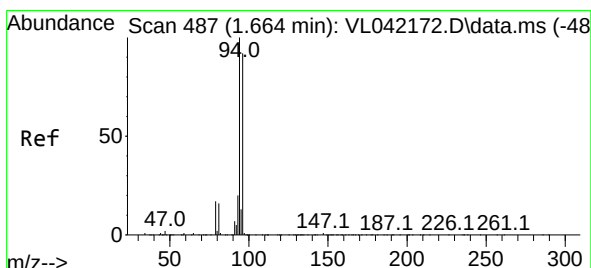
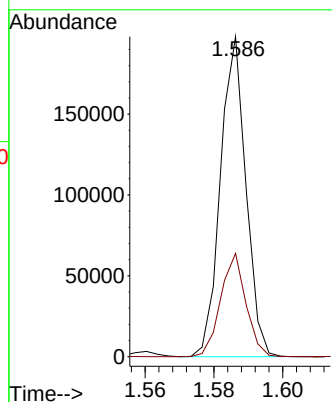
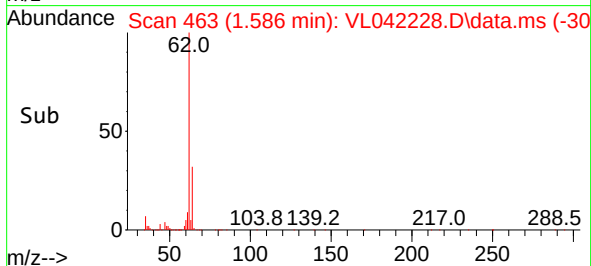
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010



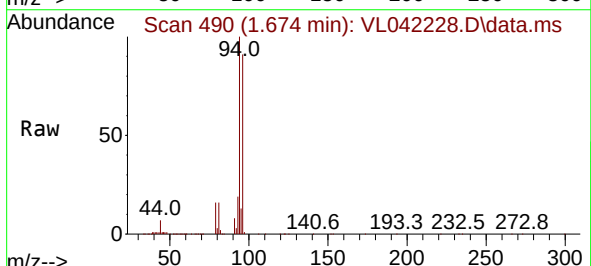
Tgt Ion: 62 Resp: 10185
 Ion Ratio Lower Upper
 62 100
 64 32.3 26.6 40.0

Manual Integrations
 APPROVED

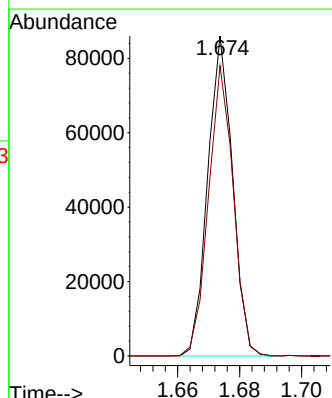
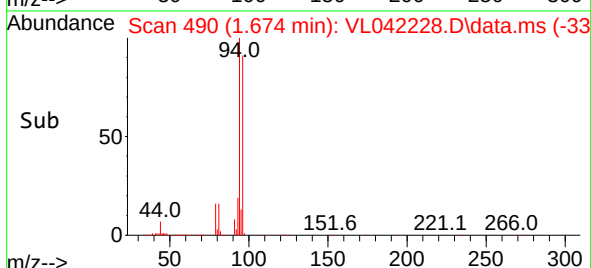
Reviewed By :Semsettin Yesilyurt 04/08/2025
 Supervised By :Mahesh Dadoda 04/09/2025

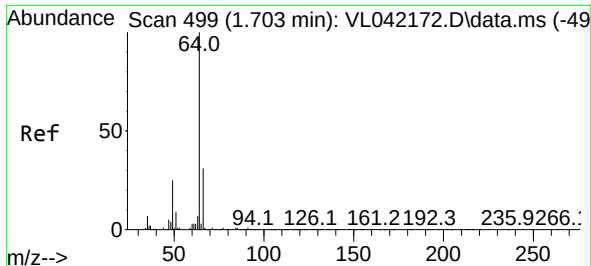


#6
 Bromomethane
 Concen: 9.162 ppbv
 RT: 1.674 min Scan# 490
 Delta R.T. 0.010 min
 Lab File: VL042228.D
 Acq: 07 Apr 2025 09:31



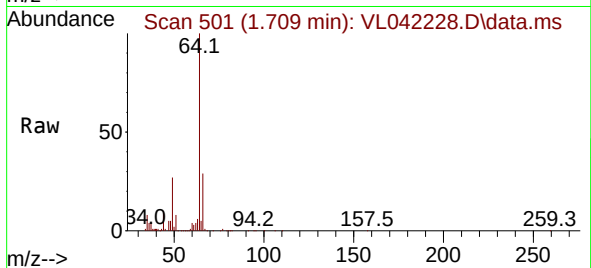
Tgt Ion: 94 Resp: 47719
 Ion Ratio Lower Upper
 94 100
 96 90.6 73.1 109.7





#7
Chloroethane
Concen: 8.972 ppbv
RT: 1.709 min Scan# 501
Delta R.T. 0.006 min
Lab File: VL042228.D
Acq: 07 Apr 2025 09:31

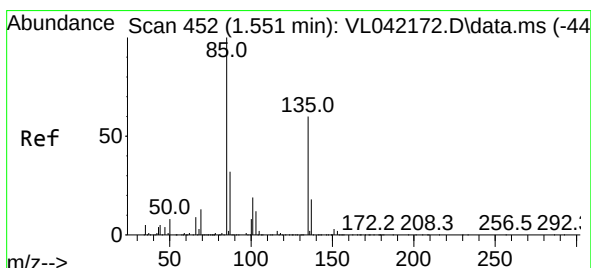
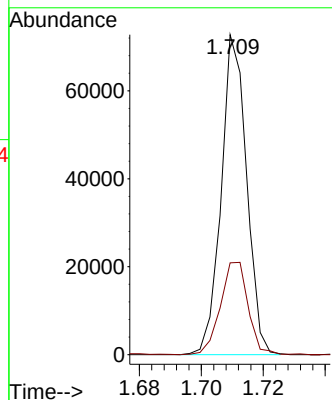
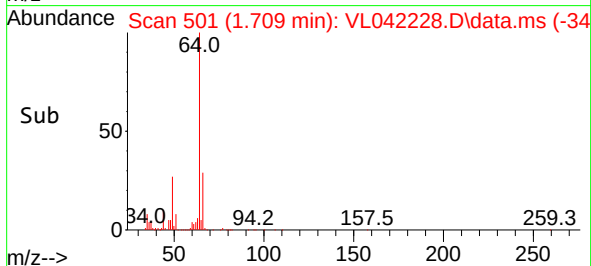
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010



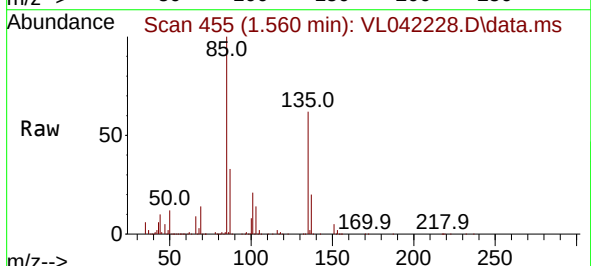
Tgt Ion: 64 Resp: 41389
Ion Ratio Lower Upper
64 100
66 28.7 25.2 37.8

Manual Integrations
APPROVED

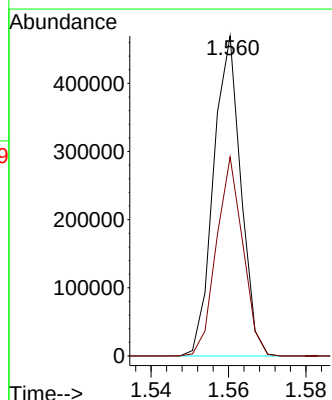
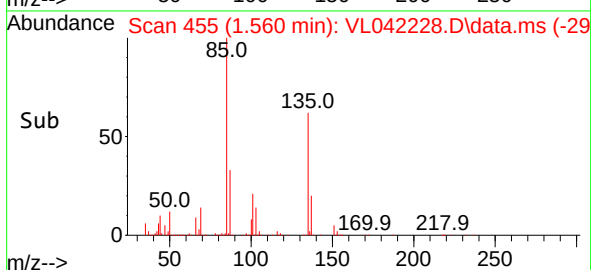
Reviewed By :Semsettin Yesilyurt 04/08/2025
Supervised By :Mahesh Dadoda 04/09/2025

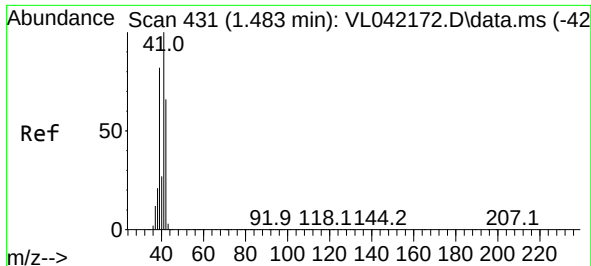


#8
Dichlorotetrafluoroethane
Concen: 9.627 ppbv
RT: 1.560 min Scan# 455
Delta R.T. 0.010 min
Lab File: VL042228.D
Acq: 07 Apr 2025 09:31



Tgt Ion: 85 Resp: 230557
Ion Ratio Lower Upper
85 100
135 60.4 52.4 78.6





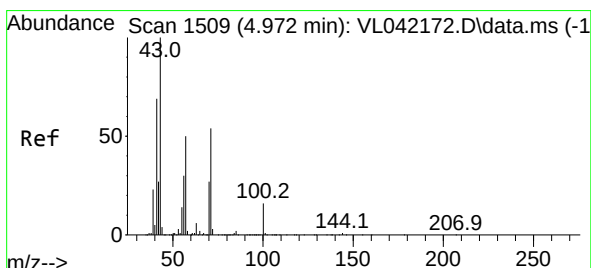
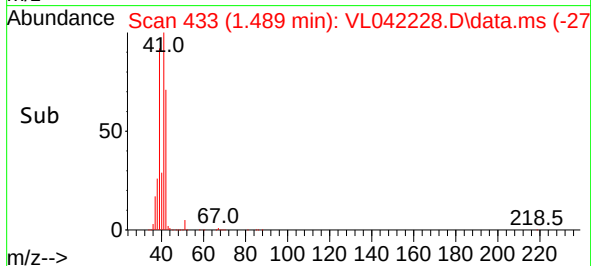
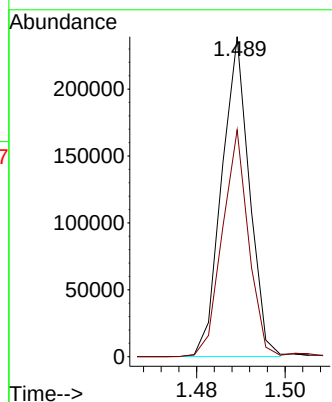
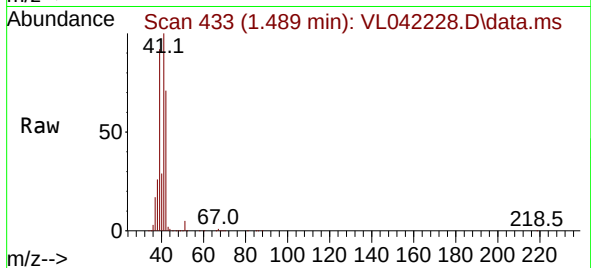
#9
Propene
Concen: 7.852 ppbv
RT: 1.489 min Scan# 41
Delta R.T. 0.006 min
Lab File: VL042228.D
Acq: 07 Apr 2025 09:31

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 41 Resp: 10339
Ion Ratio Lower Upper
41 100
42 68.7 55.4 83.2

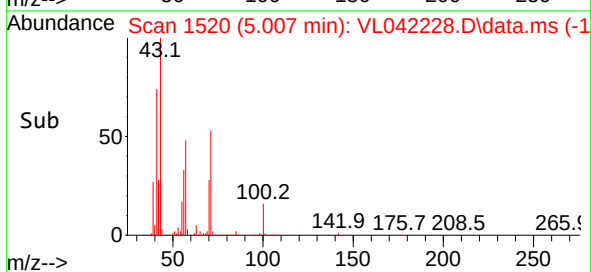
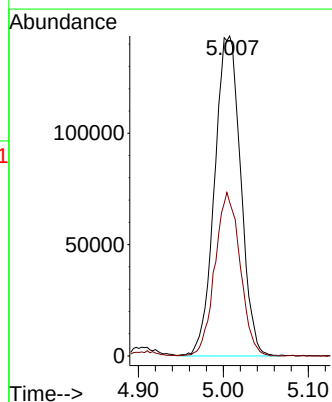
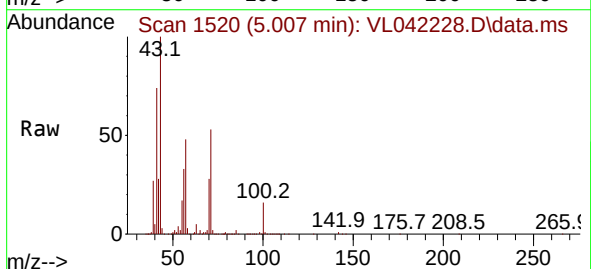
Manual Integrations
APPROVED

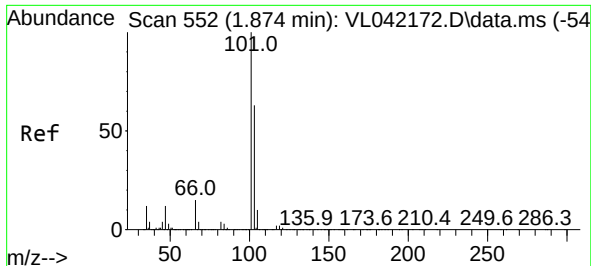
Reviewed By :Semsettin Yesilyurt 04/08/2025
Supervised By :Mahesh Dadoda 04/09/2025



#10
Heptane
Concen: 8.770 ppbv m
RT: 5.007 min Scan# 1520
Delta R.T. 0.035 min
Lab File: VL042228.D
Acq: 07 Apr 2025 09:31

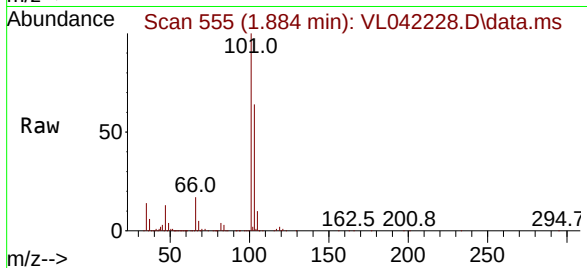
Tgt Ion: 43 Resp: 307160
Ion Ratio Lower Upper
43 100
57 0.0 39.4 59.2#





#11
Trichlorofluoromethane
Concen: 9.563 ppbv
RT: 1.884 min Scan# 51
Delta R.T. 0.010 min
Lab File: VL042228.D
Acq: 07 Apr 2025 09:31

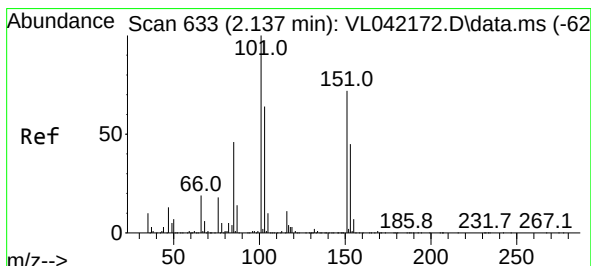
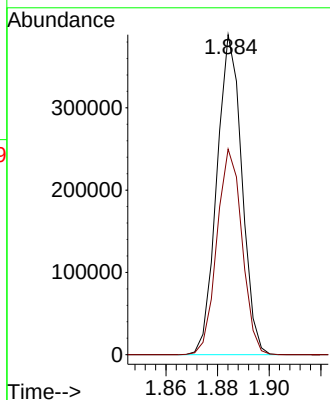
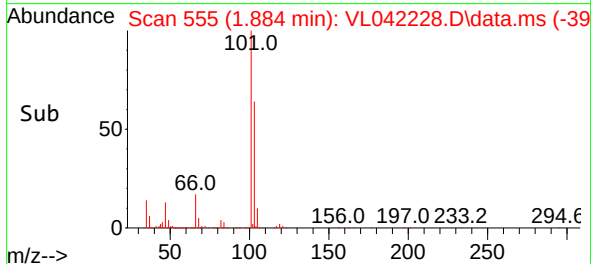
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010



Tgt Ion:101 Resp: 26166
Ion Ratio Lower Upper
101 100
103 64.2 50.2 75.2

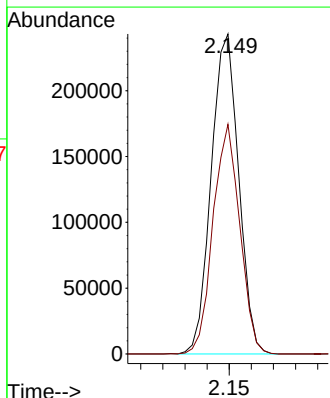
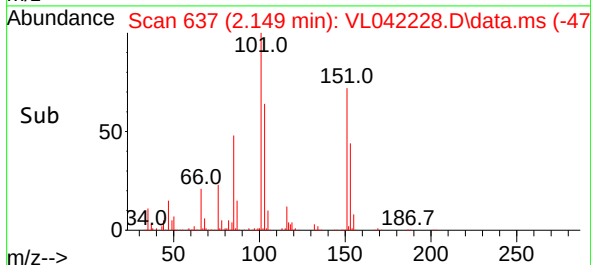
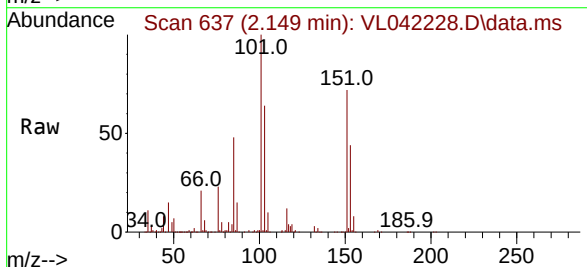
Manual Integrations
APPROVED

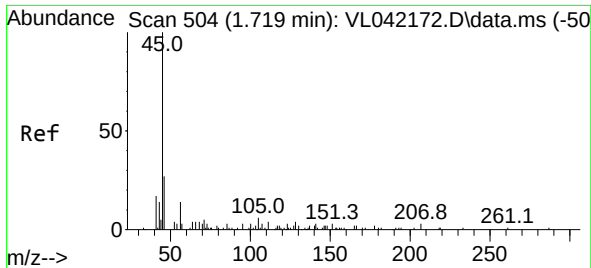
Reviewed By :Semsettin Yesilyurt 04/08/2025
Supervised By :Mahesh Dadoda 04/09/2025



#12
1,1,2-Trichlorotrifluoroethane
Concen: 9.331 ppbv
RT: 2.149 min Scan# 637
Delta R.T. 0.013 min
Lab File: VL042228.D
Acq: 07 Apr 2025 09:31

Tgt Ion:101 Resp: 209865
Ion Ratio Lower Upper
101 100
151 69.9 57.1 85.7





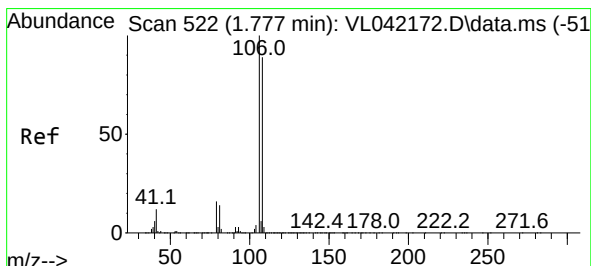
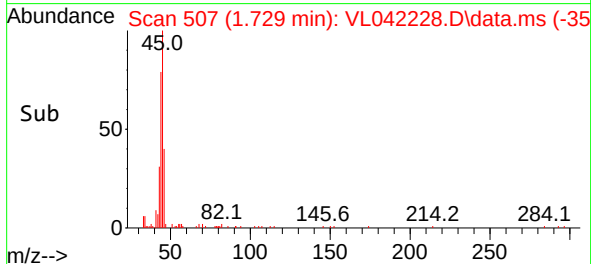
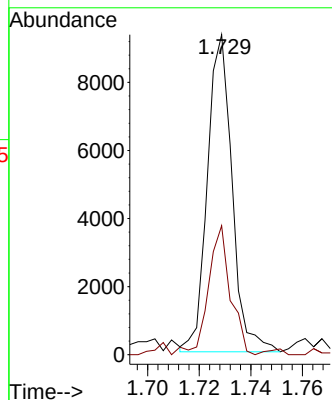
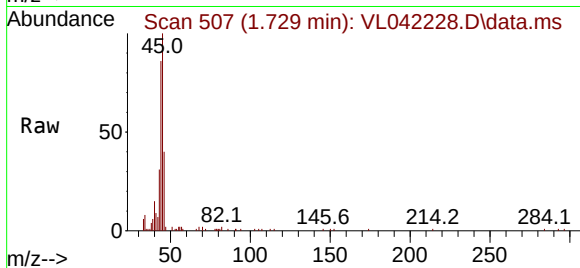
#13
Ethanol
Concen: 4.979 ppbv
RT: 1.729 min Scan# 504
Delta R.T. 0.010 min
Lab File: VL042228.D
Acq: 07 Apr 2025 09:31

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 45 Resp: 6198
Ion Ratio Lower Upper
45 100
46 39.4 20.2 80.8

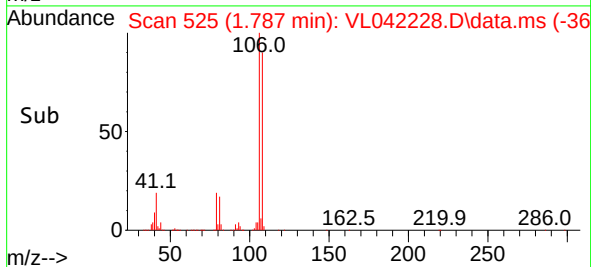
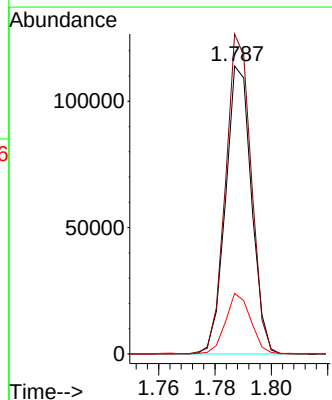
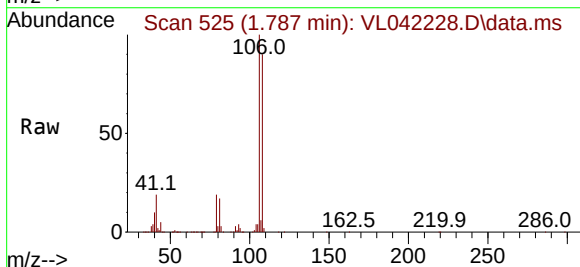
Manual Integrations
APPROVED

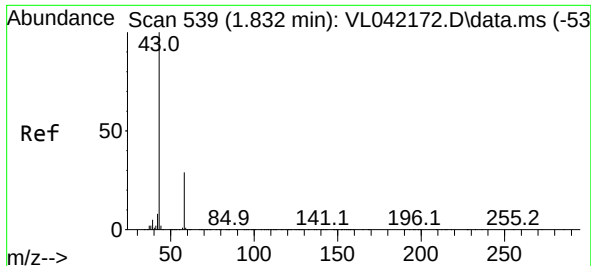
Reviewed By :Semsettin Yesilyurt 04/08/2025
Supervised By :Mahesh Dadoda 04/09/2025



#14
Bromoethene
Concen: 8.465 ppbv
RT: 1.787 min Scan# 525
Delta R.T. 0.010 min
Lab File: VL042228.D
Acq: 07 Apr 2025 09:31

Tgt Ion:108 Resp: 72937
Ion Ratio Lower Upper
108 100
106 109.6 86.8 130.2
79 20.9 15.0 22.6





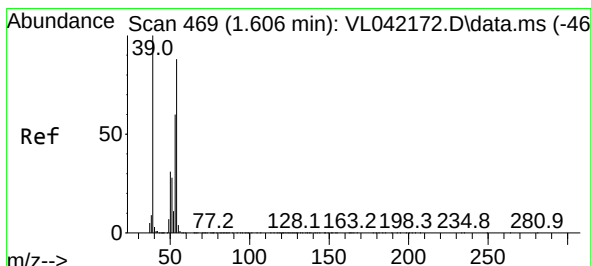
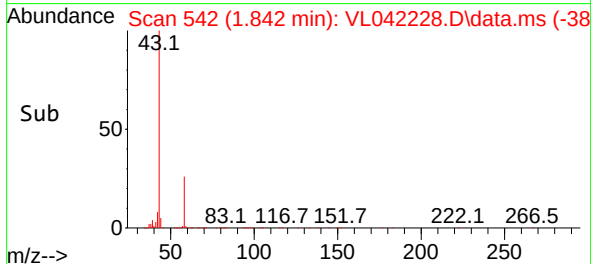
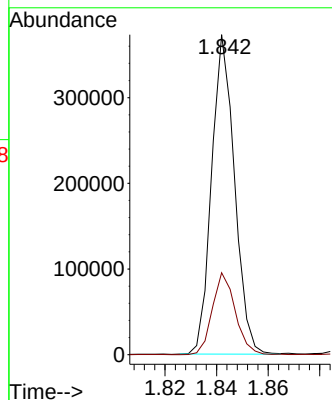
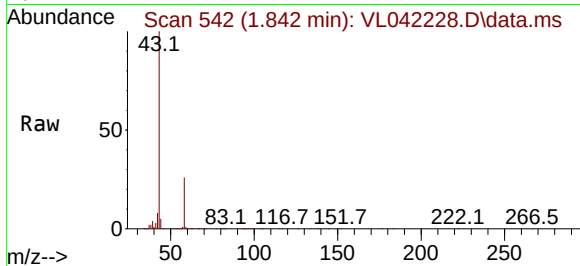
#15
Acetone
Concen: 8.621 ppbv
RT: 1.842 min Scan# 54
Delta R.T. 0.010 min
Lab File: VL042228.D
Acq: 07 Apr 2025 09:31

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 43 Resp: 229629
Ion Ratio Lower Upper
43 100
58 25.9 23.2 34.8

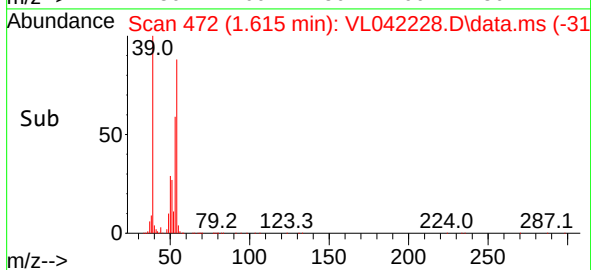
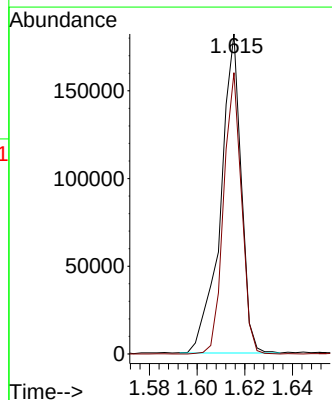
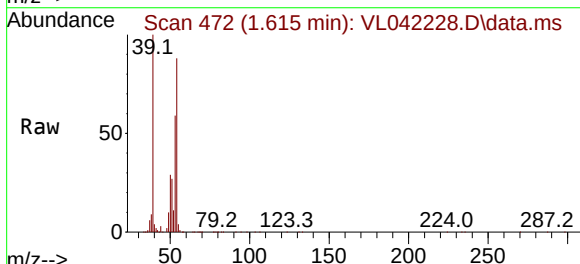
Manual Integrations
APPROVED

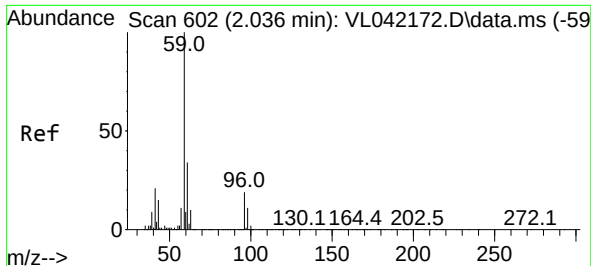
Reviewed By :Semsettin Yesilyurt 04/08/2025
Supervised By :Mahesh Dadoda 04/09/2025



#16
1,3-Butadiene
Concen: 8.419 ppbv
RT: 1.615 min Scan# 472
Delta R.T. 0.010 min
Lab File: VL042228.D
Acq: 07 Apr 2025 09:31

Tgt Ion: 39 Resp: 109521
Ion Ratio Lower Upper
39 100
54 75.8 60.7 91.1





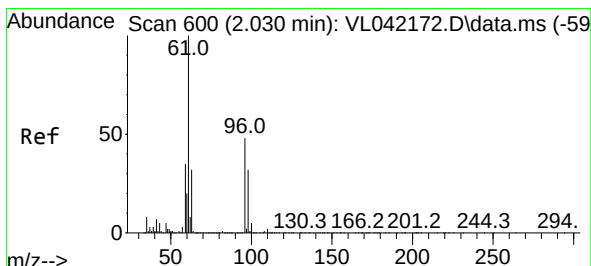
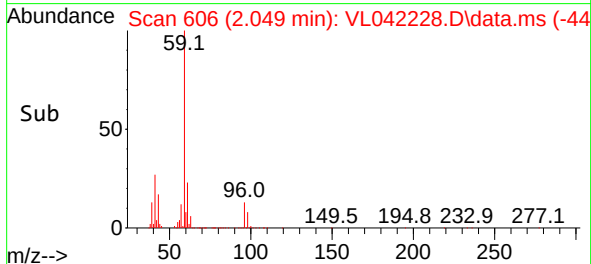
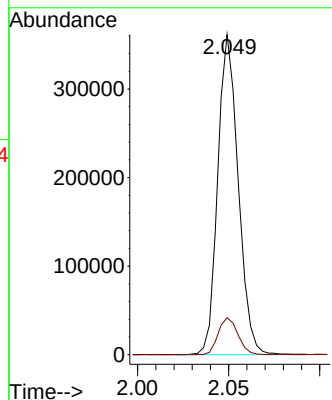
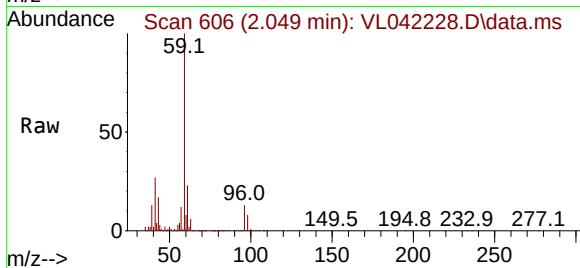
#17
tert-Butyl alcohol
Concen: 8.492 ppbv
RT: 2.049 min Scan# 60
Delta R.T. 0.013 min
Lab File: VL042228.D
Acq: 07 Apr 2025 09:31

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 59 Resp: 281754
Ion Ratio Lower Upper
59 100
57 11.3 8.9 13.3

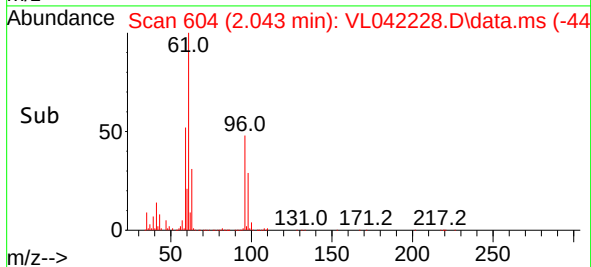
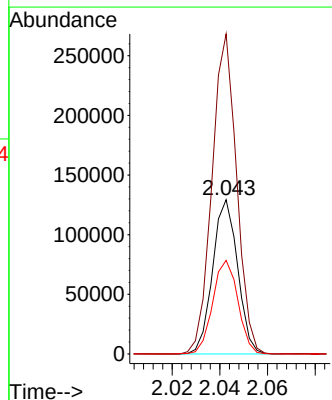
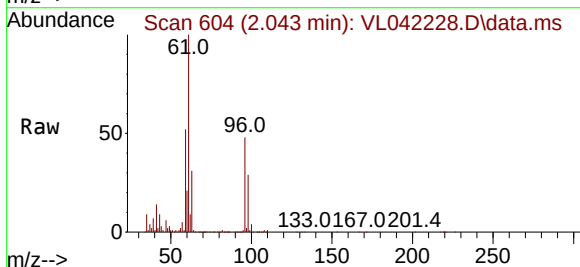
Manual Integrations
APPROVED

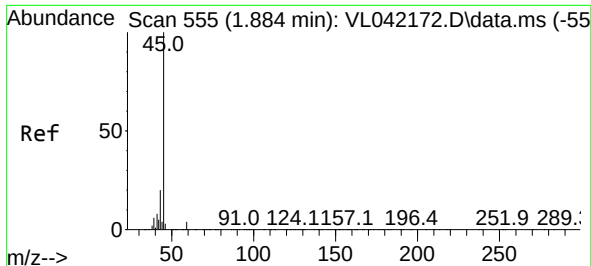
Reviewed By :Semsettin Yesilyurt 04/08/2025
Supervised By :Mahesh Dadoda 04/09/2025



#18
1,1-Dichloroethene
Concen: 8.960 ppbv
RT: 2.043 min Scan# 604
Delta R.T. 0.013 min
Lab File: VL042228.D
Acq: 07 Apr 2025 09:31

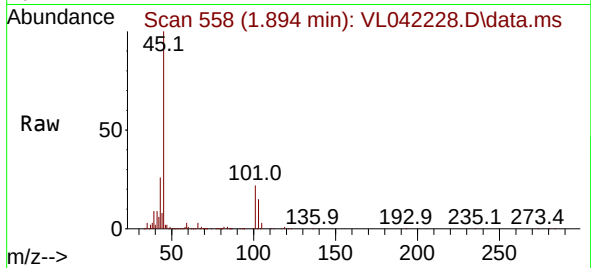
Tgt Ion: 96 Resp: 94213
Ion Ratio Lower Upper
96 100
61 207.3 167.6 251.4
98 60.7 53.5 80.3





#19
Isopropyl Alcohol
Concen: 8.793 ppbv
RT: 1.894 min Scan# 511
Delta R.T. 0.010 min
Lab File: VL042228.D
Acq: 07 Apr 2025 09:31

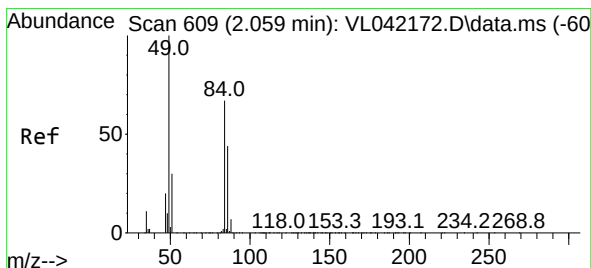
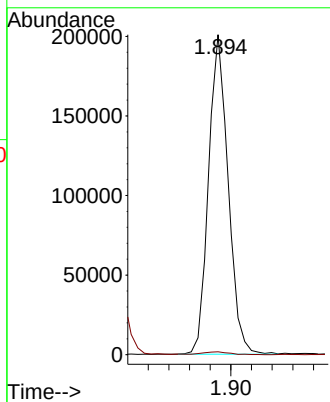
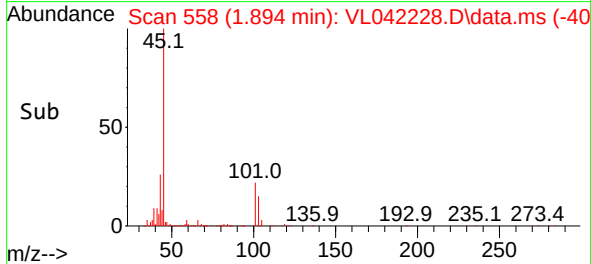
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010



Tgt Ion: 45 Resp: 13214
Ion Ratio Lower Upper
45 100
58 45.1 36.9 55.3

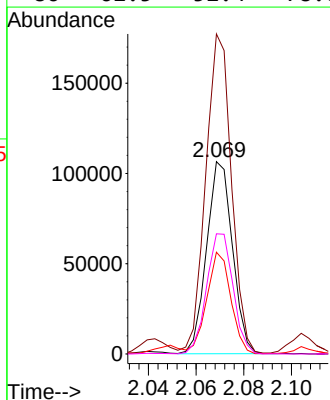
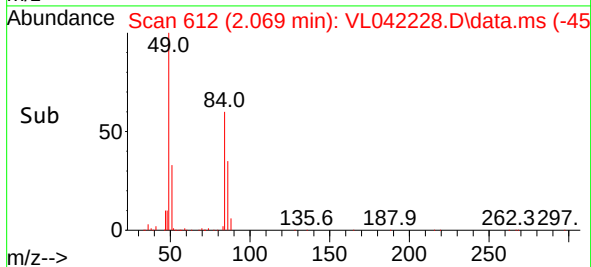
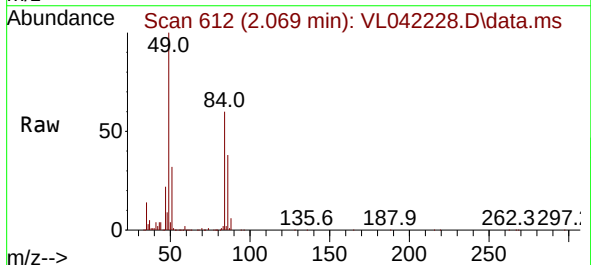
Manual Integrations
APPROVED

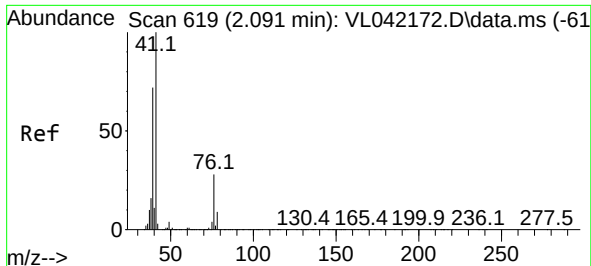
Reviewed By :Semsettin Yesilyurt 04/08/2025
Supervised By :Mahesh Dadoda 04/09/2025



#20
Methylene Chloride
Concen: 8.103 ppbv
RT: 2.069 min Scan# 612
Delta R.T. 0.010 min
Lab File: VL042228.D
Acq: 07 Apr 2025 09:31

Tgt Ion: 84 Resp: 80384
Ion Ratio Lower Upper
84 100
49 165.1 120.2 180.4
51 52.7 37.4 56.0
86 62.5 52.4 78.6





#21
 Allyl Chloride
 Concen: 8.938 ppbv
 RT: 2.104 min Scan# 619
 Delta R.T. 0.013 min
 Lab File: VL042228.D
 Acq: 07 Apr 2025 09:31

Instrument :

MSVOA_L

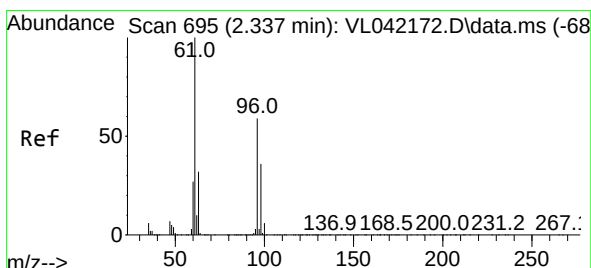
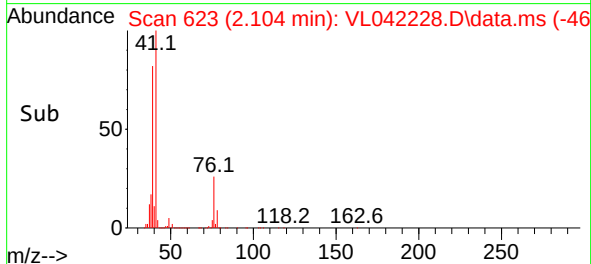
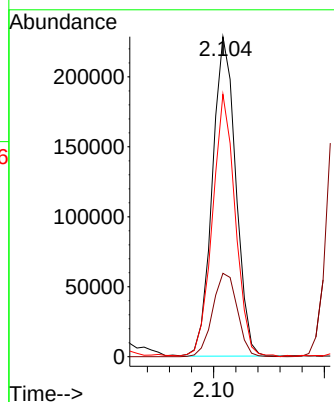
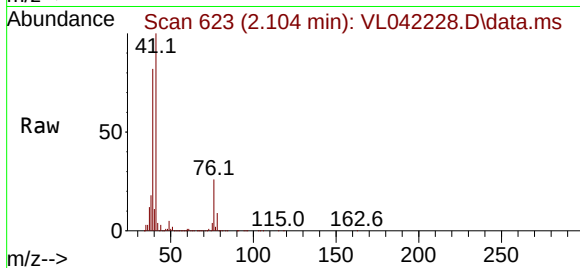
ClientSampleId :

VSTDCCC010

Tgt Ion: 41 Resp: 16790
 Ion Ratio Lower Upper
 41 100
 76 27.5 24.1 36.1
 39 79.2 61.1 91.7

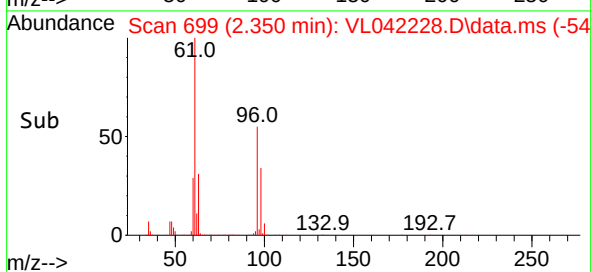
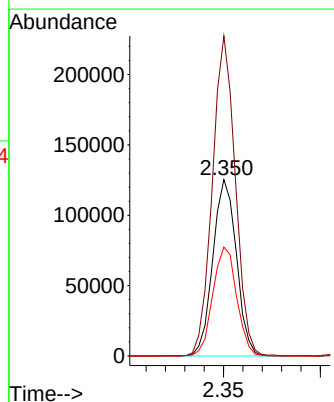
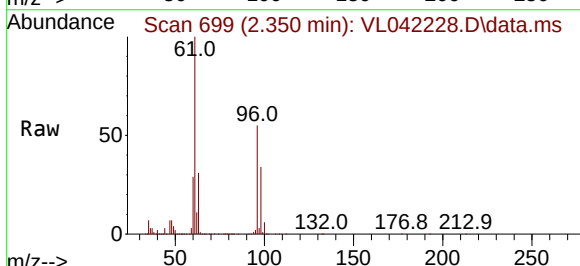
Manual Integrations
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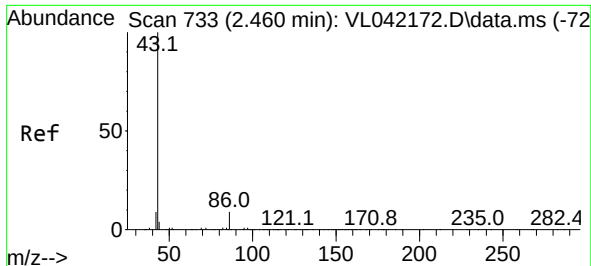
Reviewed By :Semsettin Yesilyurt 04/08/2025
 Supervised By :Mahesh Dadoda 04/09/2025



#22
 trans-1,2-Dichloroethene
 Concen: 8.705 ppbv
 RT: 2.350 min Scan# 699
 Delta R.T. 0.013 min
 Lab File: VL042228.D
 Acq: 07 Apr 2025 09:31

Tgt Ion: 96 Resp: 105790
 Ion Ratio Lower Upper
 96 100
 61 181.4 136.6 204.8
 98 61.7 49.4 74.2





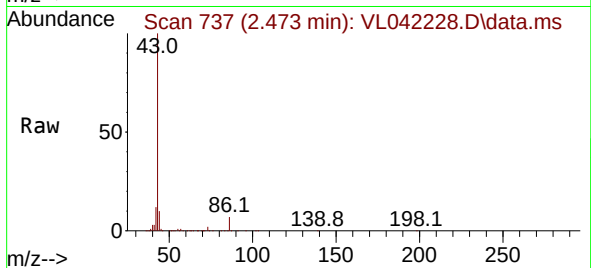
#23
 Vinyl Acetate
 Concen: 8.497 ppbv
 RT: 2.473 min Scan# 71
 Delta R.T. 0.013 min
 Lab File: VL042228.D
 Acq: 07 Apr 2025 09:31

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

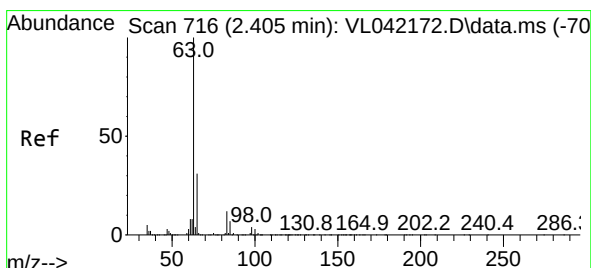
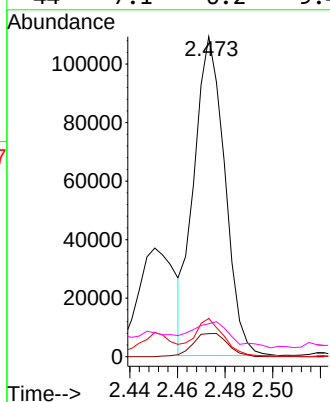
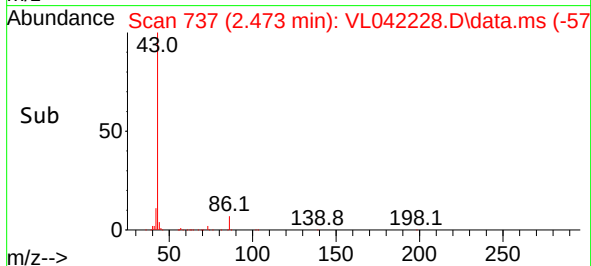


Tgt Ion: 43 Resp: 97959
 Ion Ratio Lower Upper
 43 100
 86 7.2 5.5 8.3
 42 11.7 8.6 13.0
 44 7.1 6.2 9.4

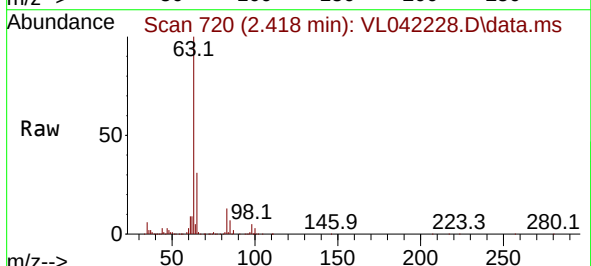
Manual Integrations

APPROVED

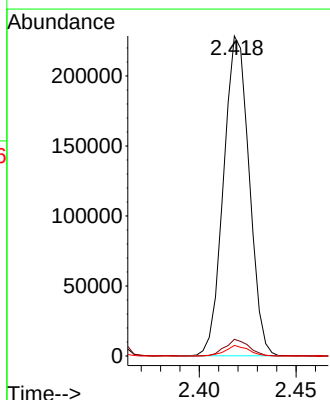
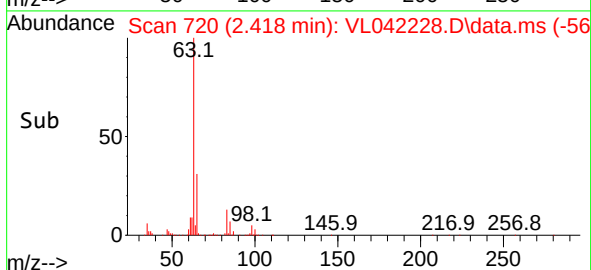
Reviewed By :Semsettin Yesilyurt 04/08/2025
 Supervised By :Mahesh Dadoda 04/09/2025

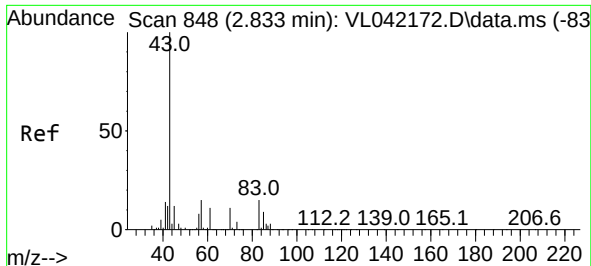


#24
 1,1-Dichloroethane
 Concen: 9.328 ppbv
 RT: 2.418 min Scan# 720
 Delta R.T. 0.013 min
 Lab File: VL042228.D
 Acq: 07 Apr 2025 09:31



Tgt Ion: 63 Resp: 210138
 Ion Ratio Lower Upper
 63 100
 98 5.2 2.3 6.8
 100 3.3 1.6 4.7





#25

Ethyl Acetate

Concen: 9.143 ppbv

RT: 2.849 min Scan# 81

Delta R.T. 0.016 min

Lab File: VL042228.D

Acq: 07 Apr 2025 09:31

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tgt Ion: 43 Resp: 632090

Ion Ratio Lower Upper

43 100

45 10.2 8.2 12.2

61 9.1 7.3 10.9

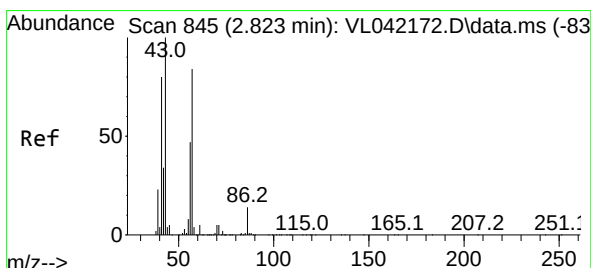
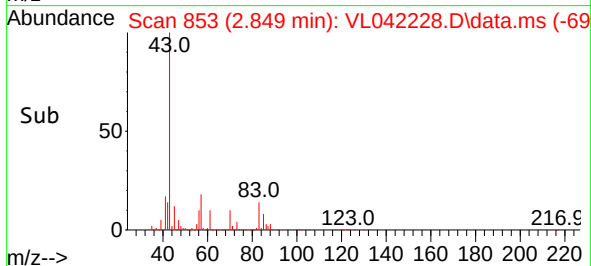
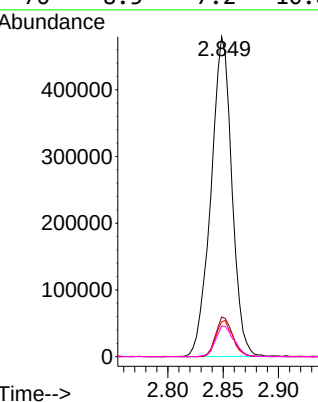
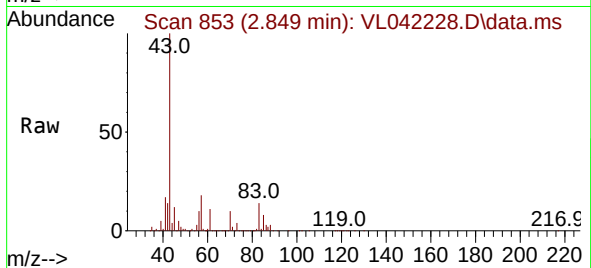
70 8.5 7.2 10.8

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 04/08/2025

Supervised By :Mahesh Dadoda 04/09/2025



#26

Hexane

Concen: 9.046 ppbv

RT: 2.839 min Scan# 850

Delta R.T. 0.016 min

Lab File: VL042228.D

Acq: 07 Apr 2025 09:31

Tgt Ion: 57 Resp: 241568

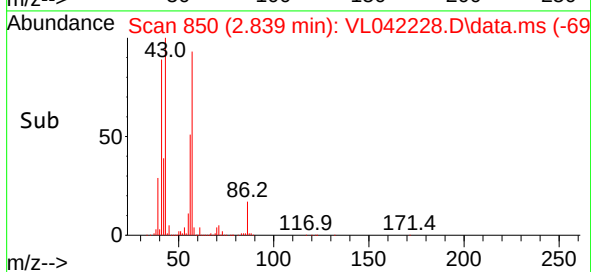
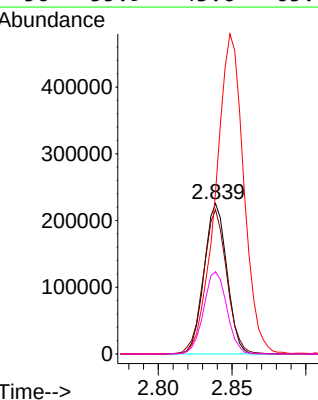
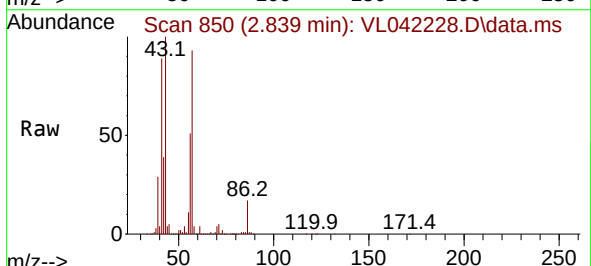
Ion Ratio Lower Upper

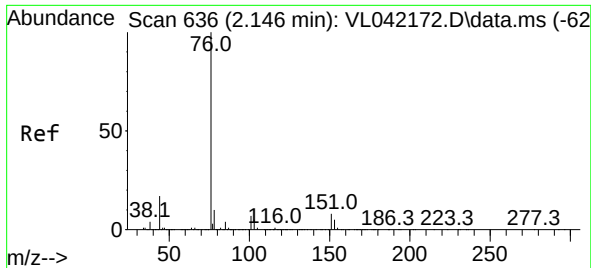
57 100

41 98.7 76.6 114.8

43 263.3 207.8 311.8

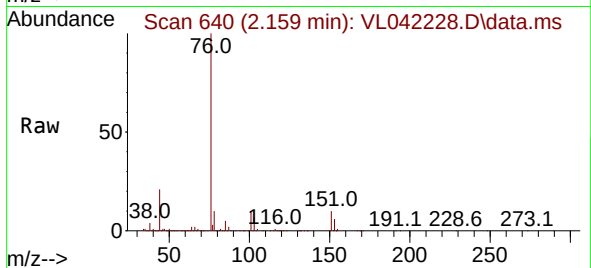
56 55.9 43.6 65.4





#27
Carbon Disulfide
Concen: 9.155 ppbv
RT: 2.159 min Scan# 640
Delta R.T. 0.013 min
Lab File: VL042228.D
Acq: 07 Apr 2025 09:31

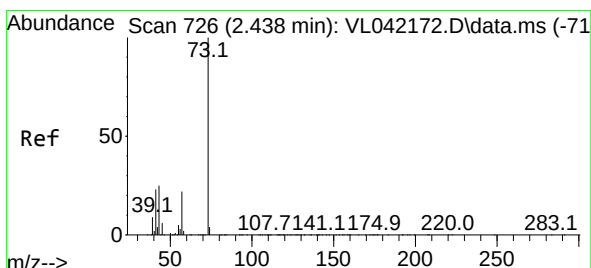
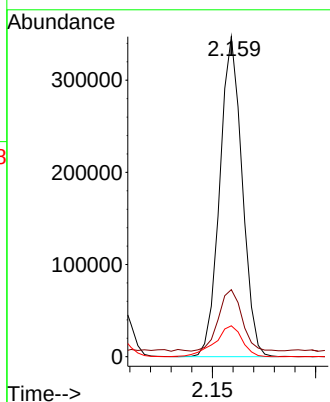
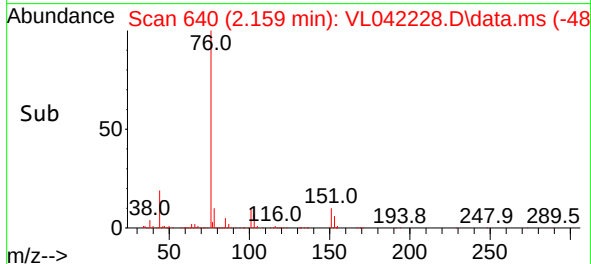
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010



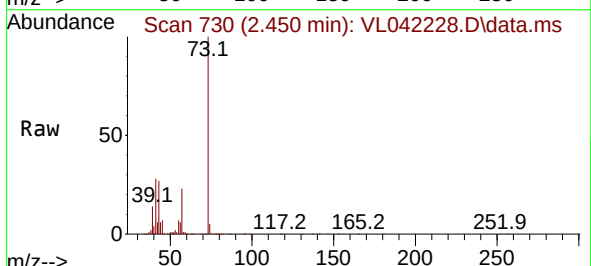
Tgt Ion: 76 Resp: 262150
Ion Ratio Lower Upper
76 100
44 21.2 14.7 22.1
78 11.8 9.3 13.9

Manual Integrations
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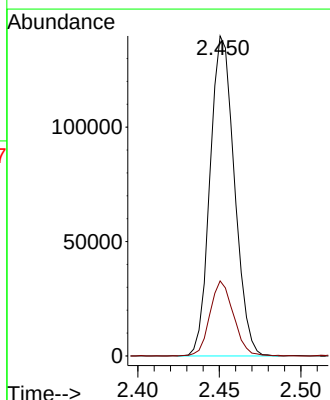
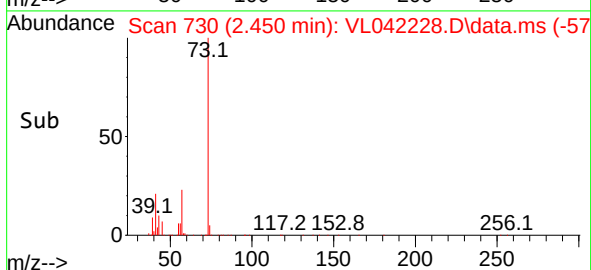
Reviewed By :Semsettin Yesilyurt 04/08/2025
Supervised By :Mahesh Dadoda 04/09/2025

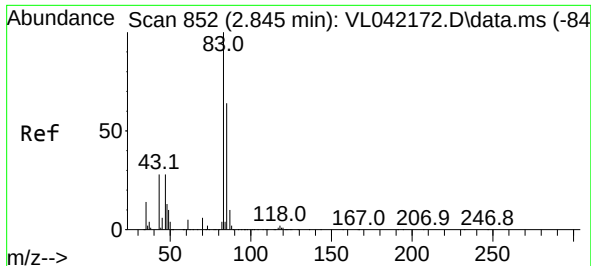


#28
Methyl tert-Butyl Ether
Concen: 8.740 ppbv
RT: 2.450 min Scan# 730
Delta R.T. 0.013 min
Lab File: VL042228.D
Acq: 07 Apr 2025 09:31



Tgt Ion: 73 Resp: 145310
Ion Ratio Lower Upper
73 100
57 22.7 20.5 30.7





#29

Chloroform

Concen: 10.178 ppbv

RT: 2.862 min Scan# 81

Delta R.T. 0.016 min

Lab File: VL042228.D

Acq: 07 Apr 2025 09:31

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tgt Ion: 83 Resp: 397772

Ion Ratio Lower Upper

83 100

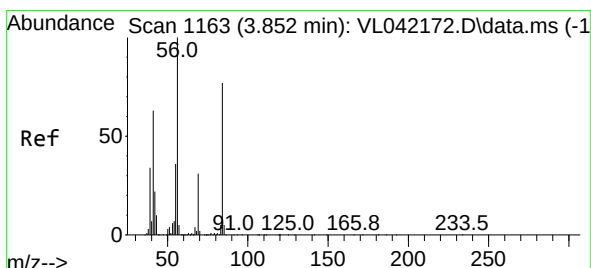
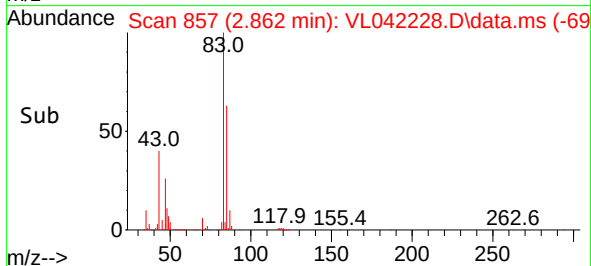
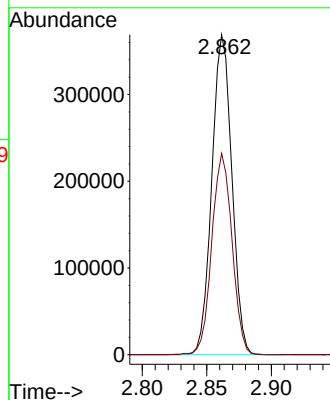
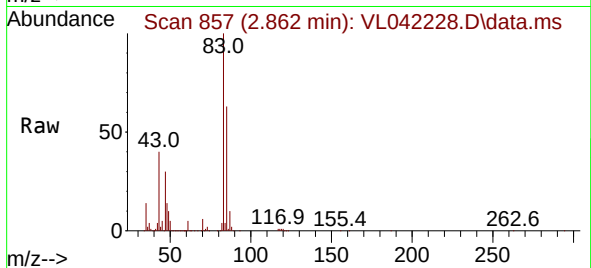
85 62.9 51.4 77.2

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 04/08/2025

Supervised By :Mahesh Dadoda 04/09/2025



#30

Cyclohexane

Concen: 8.816 ppbv

RT: 3.875 min Scan# 1170

Delta R.T. 0.023 min

Lab File: VL042228.D

Acq: 07 Apr 2025 09:31

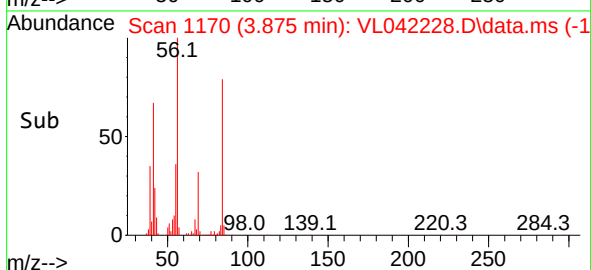
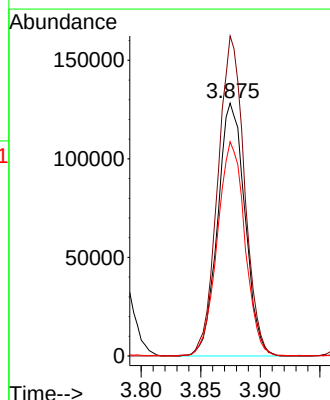
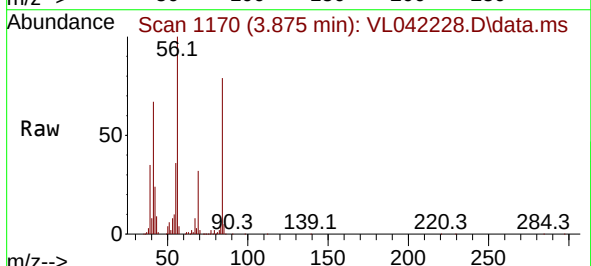
Tgt Ion: 84 Resp: 204416

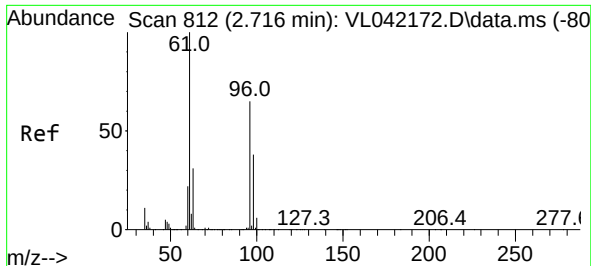
Ion Ratio Lower Upper

84 100

56 123.0 102.8 154.2

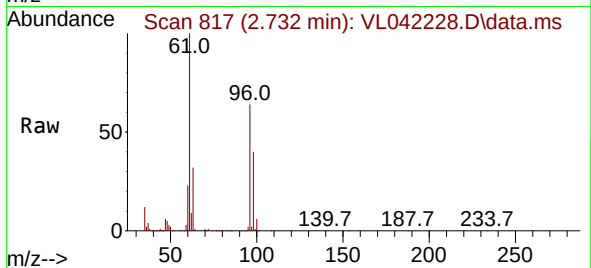
41 85.6 66.5 99.7





#31
 cis-1,2-Dichloroethene
 Concen: 9.085 ppbv
 RT: 2.732 min Scan# 81
 Delta R.T. 0.016 min
 Lab File: VL042228.D
 Acq: 07 Apr 2025 09:31

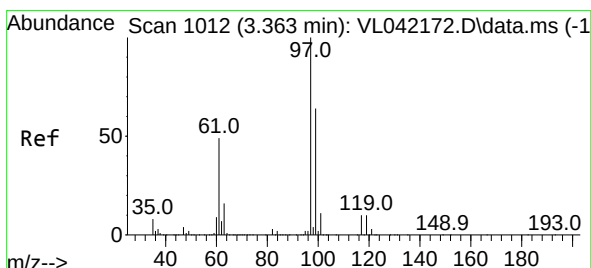
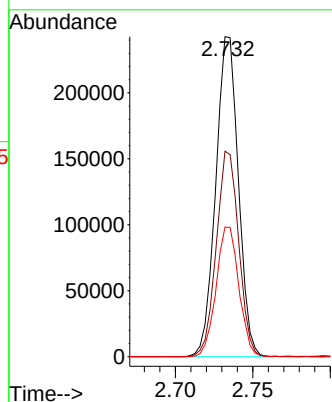
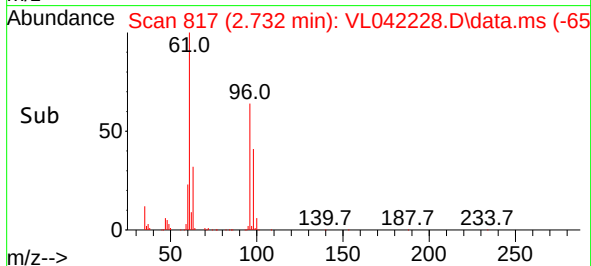
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010



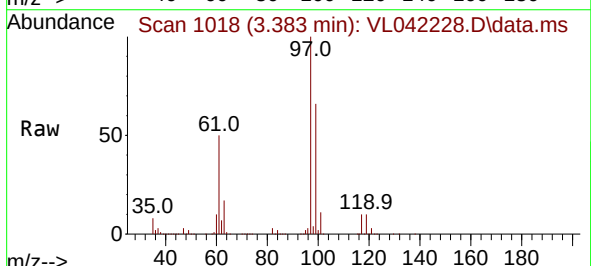
Tgt Ion: 61 Resp: 246300
 Ion Ratio Lower Upper
 61 100
 96 64.2 51.8 77.8
 98 40.5 30.6 46.0

Manual Integrations
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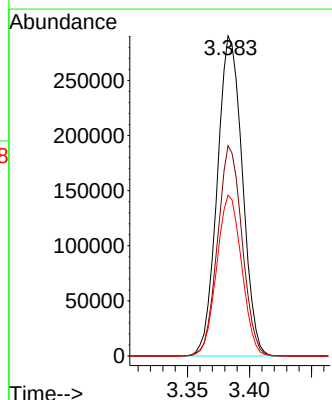
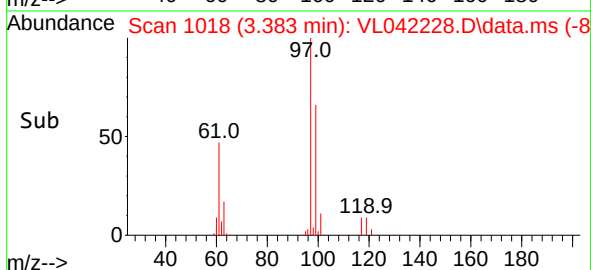
Reviewed By :Semsettin Yesilyurt 04/08/2025
 Supervised By :Mahesh Dadoda 04/09/2025

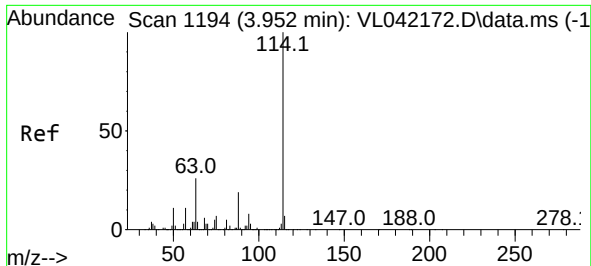


#32
 1,1,1-Trichloroethane
 Concen: 9.162 ppbv
 RT: 3.383 min Scan# 1018
 Delta R.T. 0.019 min
 Lab File: VL042228.D
 Acq: 07 Apr 2025 09:31



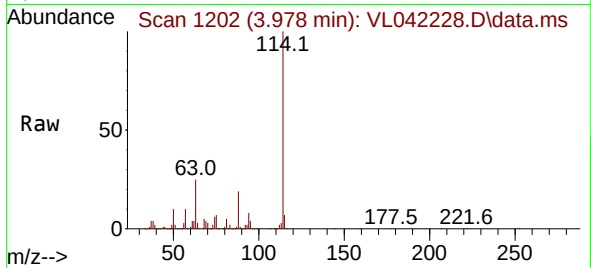
Tgt Ion: 97 Resp: 409916
 Ion Ratio Lower Upper
 97 100
 99 64.2 51.5 77.3
 61 50.0 38.7 58.1





#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.978 min Scan# 1194
Delta R.T. 0.026 min
Lab File: VL042228.D
Acq: 07 Apr 2025 09:31

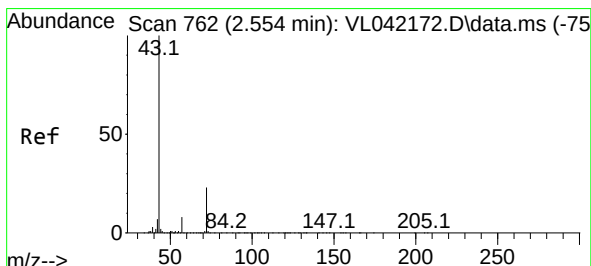
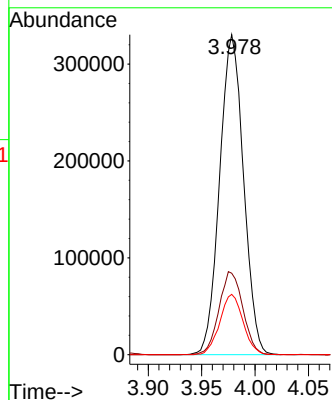
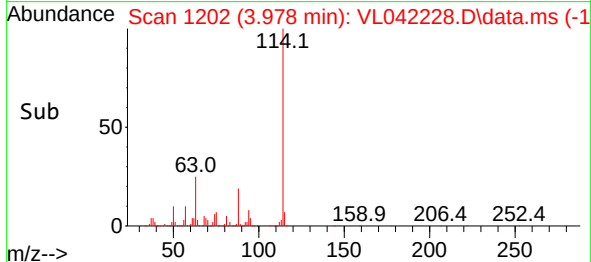
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010



Tgt Ion:114 Resp: 513778
Ion Ratio Lower Upper
114 100
63 25.9 20.7 31.1
88 18.4 15.0 22.4

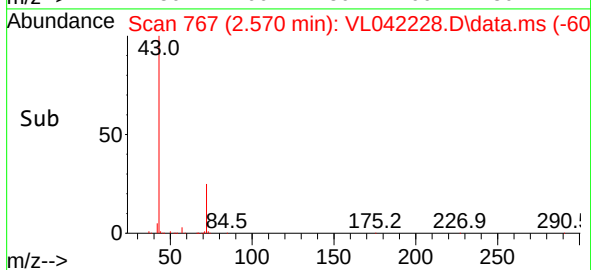
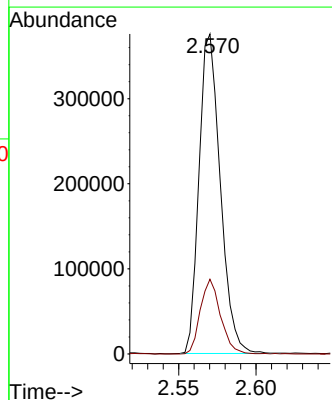
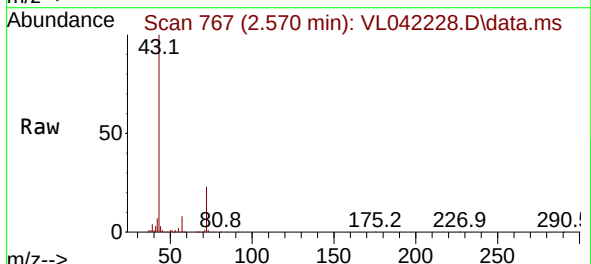
Manual Integrations
APPROVED

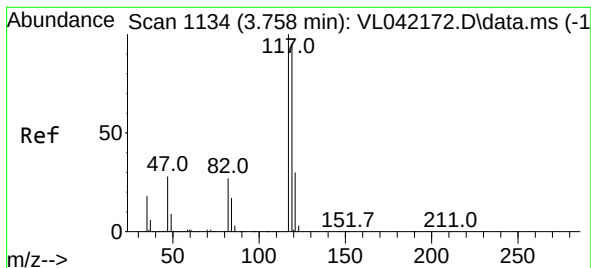
Reviewed By :Semsettin Yesilyurt 04/08/2025
Supervised By :Mahesh Dadoda 04/09/2025



#34
2-Butanone
Concen: 9.632 ppbv
RT: 2.570 min Scan# 767
Delta R.T. 0.016 min
Lab File: VL042228.D
Acq: 07 Apr 2025 09:31

Tgt Ion: 43 Resp: 358832
Ion Ratio Lower Upper
43 100
72 22.3 18.2 27.2





#35

Carbon Tetrachloride

Concen: 10.613 ppbv

RT: 3.781 min Scan# 111

Delta R.T. 0.023 min

Lab File: VL042228.D

Acq: 07 Apr 2025 09:31

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tgt Ion:117 Resp: 425964

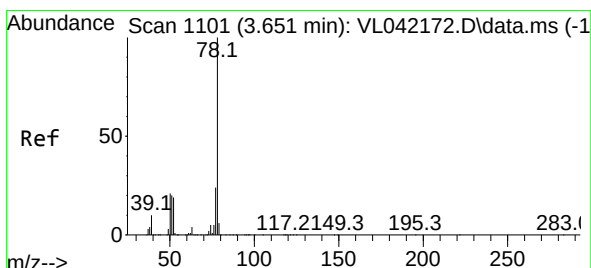
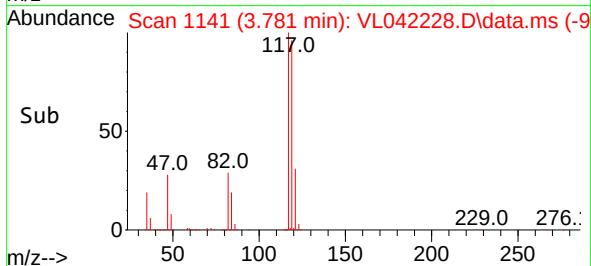
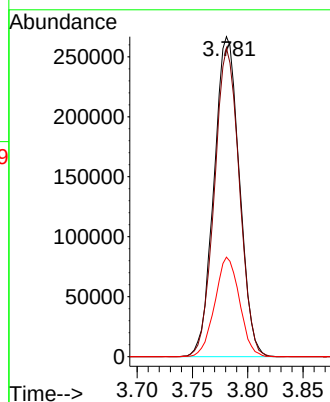
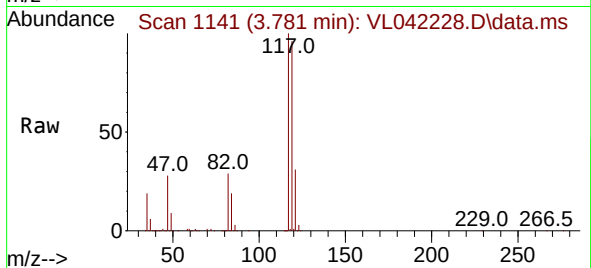
Ion	Ratio	Lower	Upper
117	100		
119	96.4	76.2	114.2
121	31.1	24.2	36.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/08/2025

Supervised By :Mahesh Dadoda 04/09/2025



#36

Benzene

Concen: 9.636 ppbv

RT: 3.674 min Scan# 1108

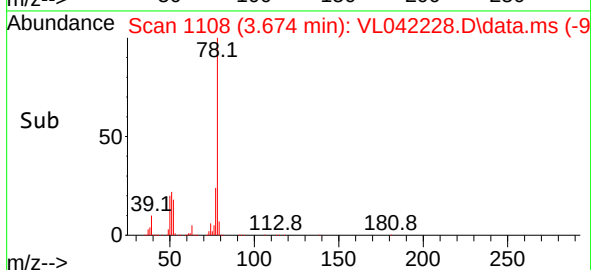
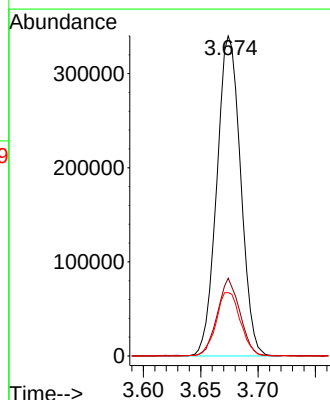
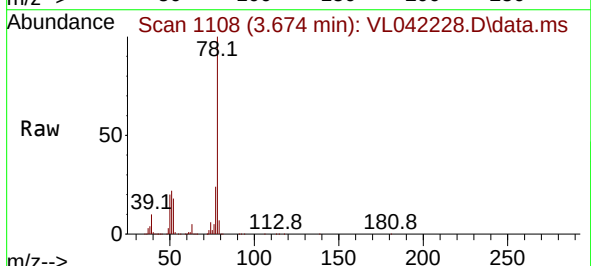
Delta R.T. 0.023 min

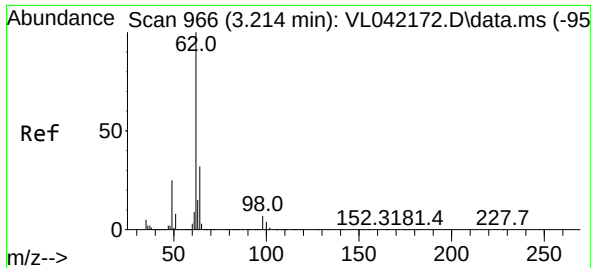
Lab File: VL042228.D

Acq: 07 Apr 2025 09:31

Tgt Ion: 78 Resp: 490813

Ion	Ratio	Lower	Upper
78	100		
77	24.2	19.1	28.7
50	19.8	16.6	24.8





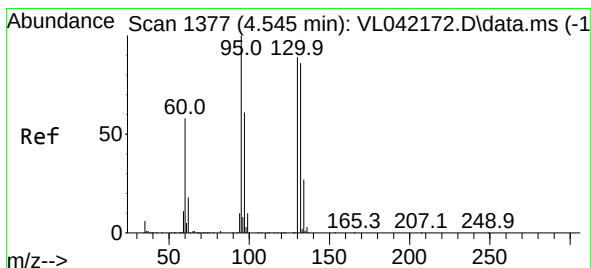
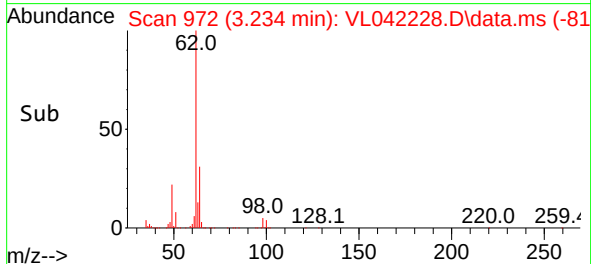
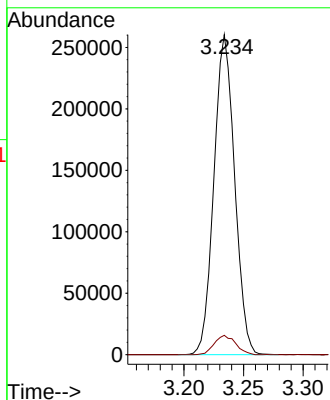
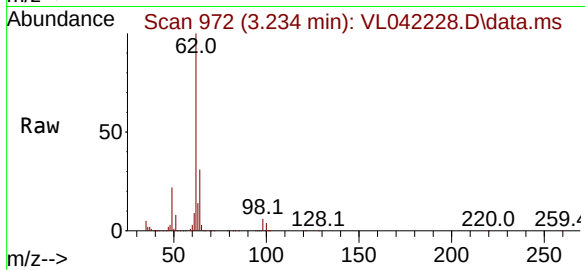
#37
1,2-Dichloroethane
Concen: 10.772 ppbv
RT: 3.234 min Scan# 91
Delta R.T. 0.019 min
Lab File: VL042228.D
Acq: 07 Apr 2025 09:31

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 62 Resp: 31412
Ion Ratio Lower Upper
62 100
98 6.2 5.4 8.2

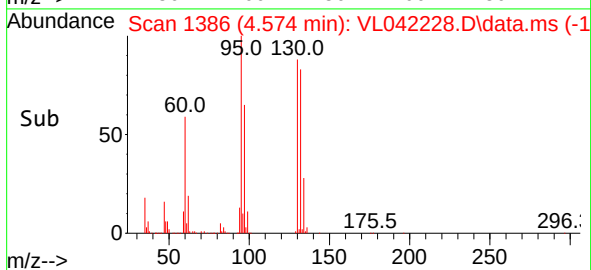
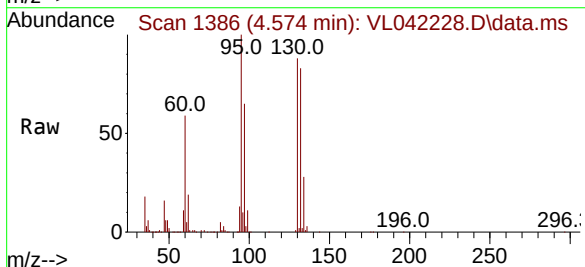
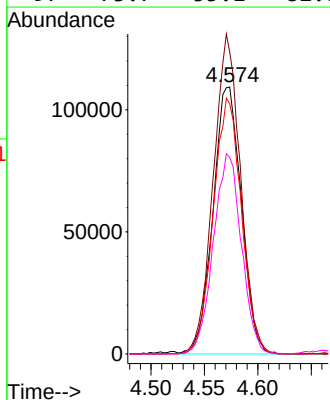
Manual Integrations
APPROVED

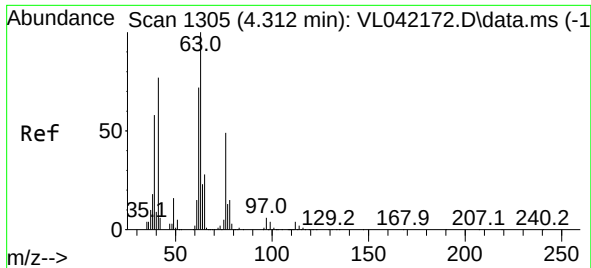
Reviewed By :Semsettin Yesilyurt 04/08/2025
Supervised By :Mahesh Dadoda 04/09/2025



#38
Trichloroethene
Concen: 9.512 ppbv
RT: 4.574 min Scan# 1386
Delta R.T. 0.029 min
Lab File: VL042228.D
Acq: 07 Apr 2025 09:31

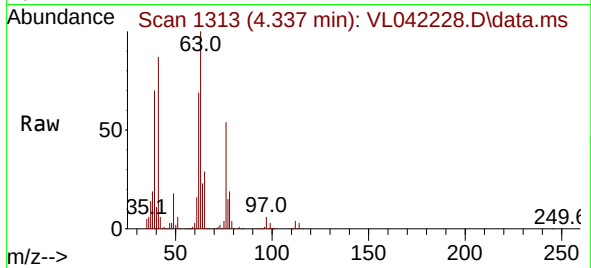
Tgt Ion:130 Resp: 202154
Ion Ratio Lower Upper
130 100
95 113.0 89.8 134.8
132 93.7 77.4 116.2
97 73.7 55.1 82.7





#39
 1,2-Dichloropropane
 Concen: 9.472 ppbv
 RT: 4.337 min Scan# 1313
 Delta R.T. 0.026 min
 Lab File: VL042228.D
 Acq: 07 Apr 2025 09:31

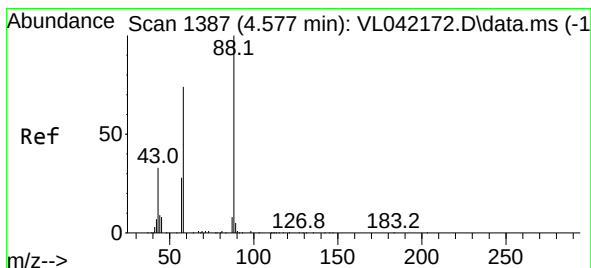
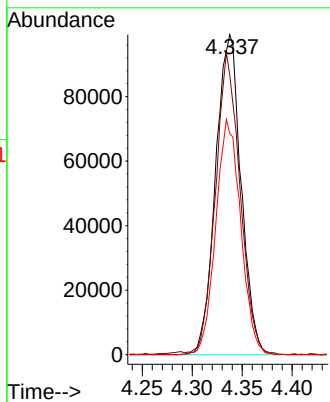
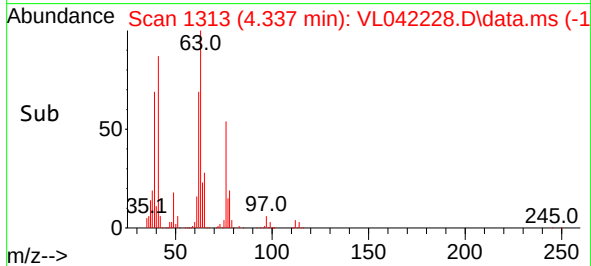
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010



Tgt Ion: 63 Resp: 175704
 Ion Ratio Lower Upper
 63 100
 41 87.2 61.7 92.5
 62 69.1 57.6 86.4

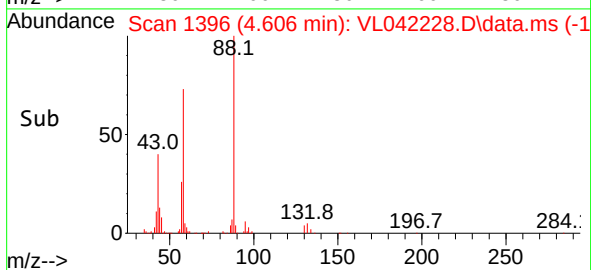
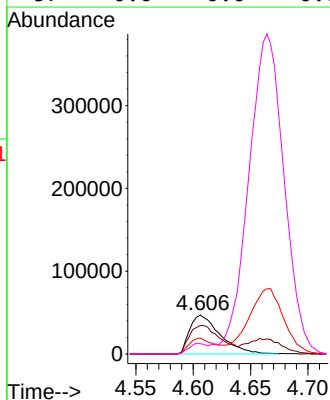
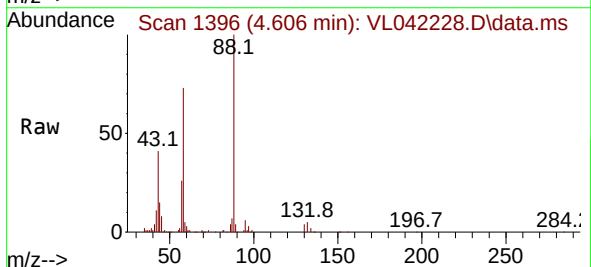
Manual Integrations
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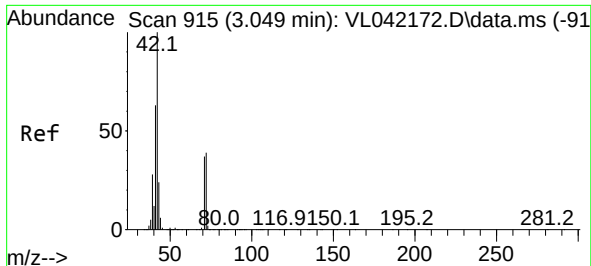
Reviewed By :Semsettin Yesilyurt 04/08/2025
 Supervised By :Mahesh Dadoda 04/09/2025



#40
 1,4-Dioxane
 Concen: 8.803 ppbv
 RT: 4.606 min Scan# 1396
 Delta R.T. 0.029 min
 Lab File: VL042228.D
 Acq: 07 Apr 2025 09:31

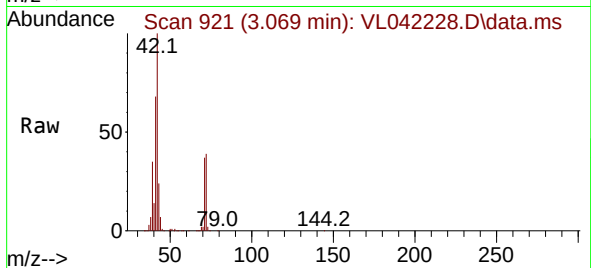
Tgt Ion: 88 Resp: 86664
 Ion Ratio Lower Upper
 88 100
 58 74.4 62.7 94.1
 43 37.1 23.0 34.4#
 57 0.0 0.0 0.0





#41
Tetrahydrofuran
Concen: 9.290 ppbv
RT: 3.069 min Scan# 915
Delta R.T. 0.019 min
Lab File: VL042228.D
Acq: 07 Apr 2025 09:31

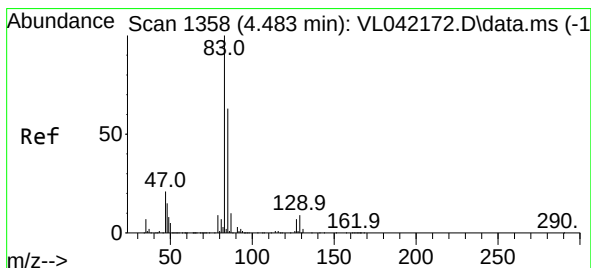
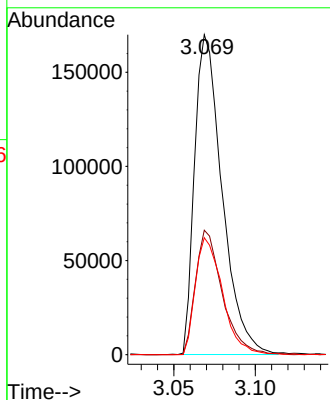
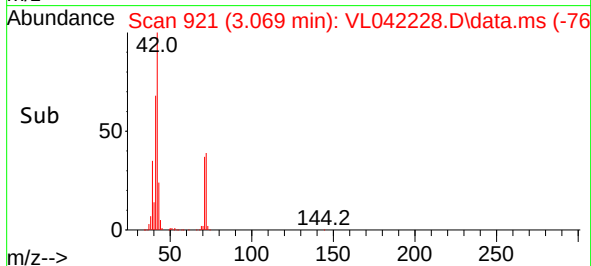
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010



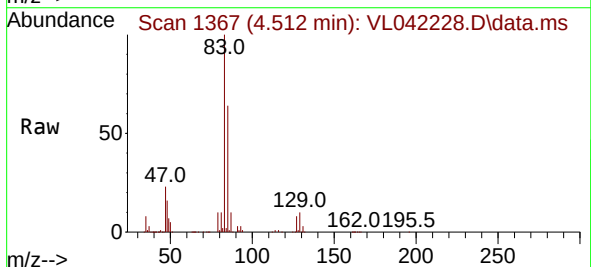
Tgt Ion: 42 Resp: 199311
Ion Ratio Lower Upper
42 100
72 38.0 31.4 47.0
71 36.1 30.2 45.4

Manual Integrations
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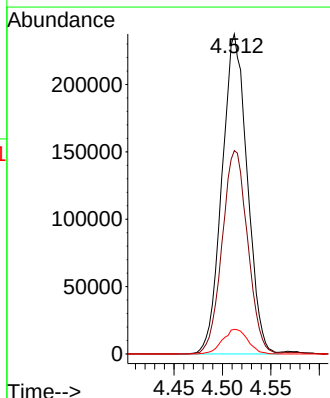
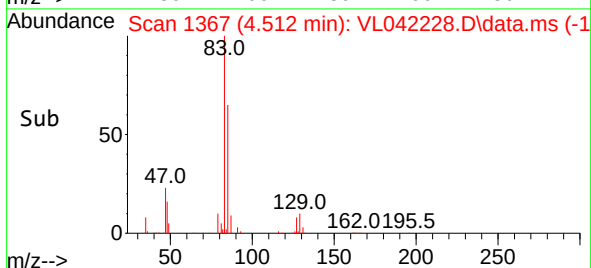
Reviewed By :Semsettin Yesilyurt 04/08/2025
Supervised By :Mahesh Dadoda 04/09/2025

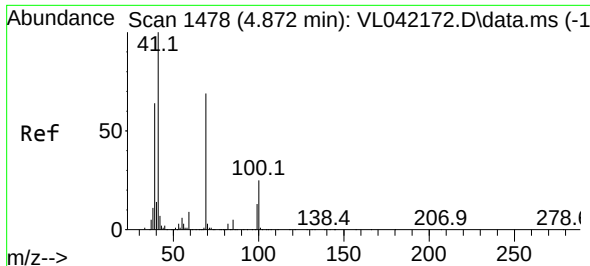


#42
Bromodichloromethane
Concen: 10.721 ppbv
RT: 4.512 min Scan# 1367
Delta R.T. 0.029 min
Lab File: VL042228.D
Acq: 07 Apr 2025 09:31



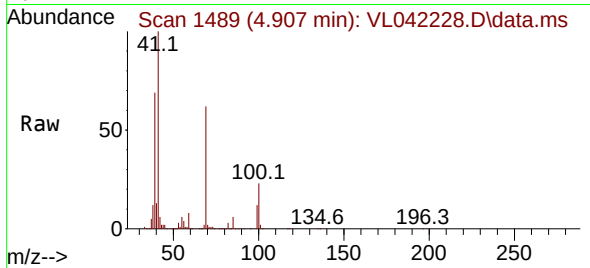
Tgt Ion: 83 Resp: 430997
Ion Ratio Lower Upper
83 100
85 63.6 50.5 75.7
127 7.7 5.9 8.9





#43
Methyl Methacrylate
Concen: 8.605 ppbv
RT: 4.907 min Scan# 1414
Delta R.T. 0.035 min
Lab File: VL042228.D
Acq: 07 Apr 2025 09:31

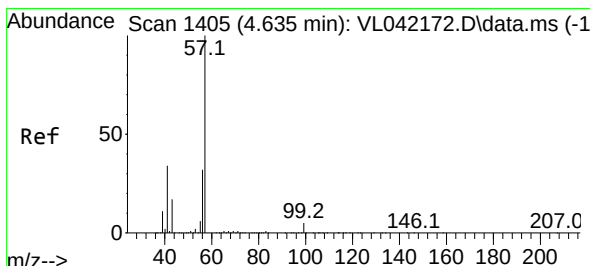
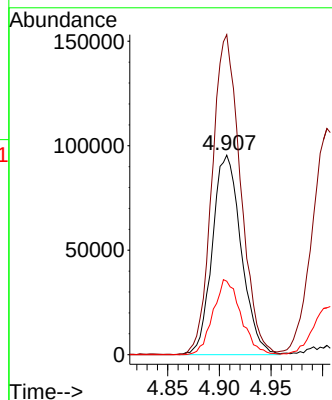
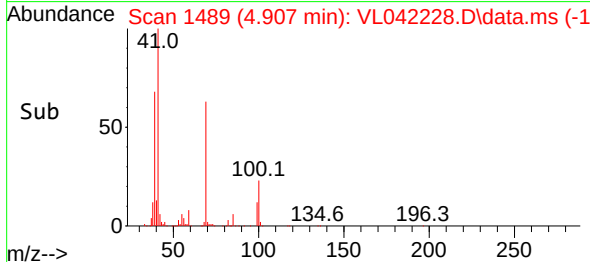
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010



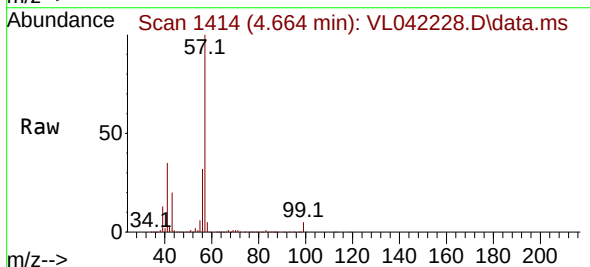
Tgt Ion: 69 Resp: 185549
Ion Ratio Lower Upper
69 100
41 157.6 123.8 185.6
100 36.4 28.4 42.6

Manual Integrations
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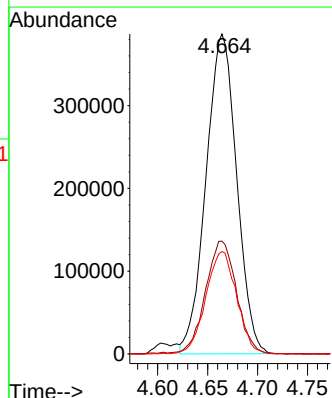
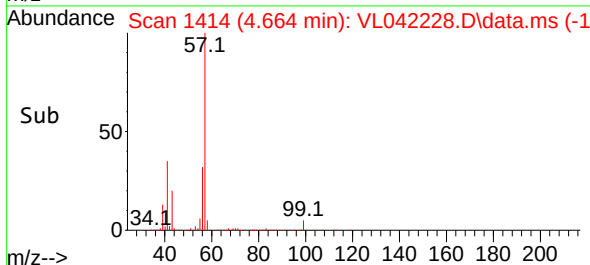
Reviewed By :Semsettin Yesilyurt 04/08/2025
Supervised By :Mahesh Dadoda 04/09/2025

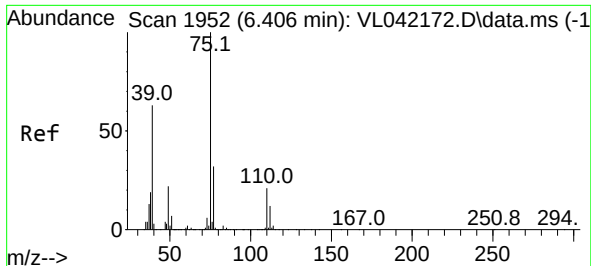


#44
2,2,4-Trimethylpentane
Concen: 9.584 ppbv
RT: 4.664 min Scan# 1414
Delta R.T. 0.029 min
Lab File: VL042228.D
Acq: 07 Apr 2025 09:31



Tgt Ion: 57 Resp: 824962
Ion Ratio Lower Upper
57 100
41 36.1 26.8 40.2
56 32.3 25.6 38.4





#45

t-1,3-Dichloropropene

Concen: 8.718 ppbv

RT: 6.444 min Scan# 1952

Delta R.T. 0.039 min

Lab File: VL042228.D

Acq: 07 Apr 2025 09:31

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tgt Ion: 75 Resp: 201670

Ion Ratio Lower Upper

75 100

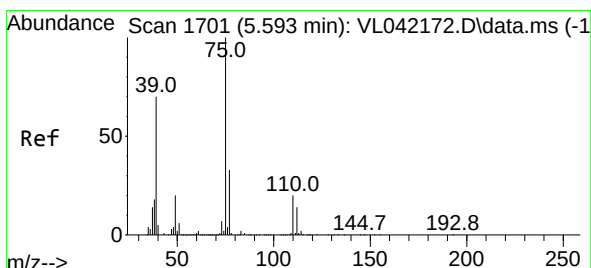
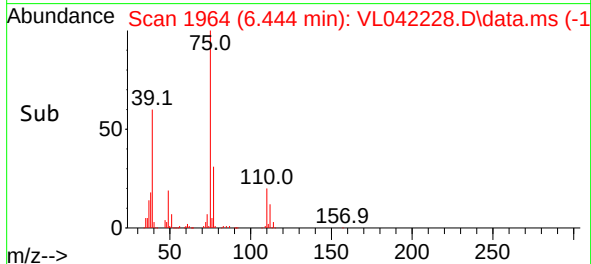
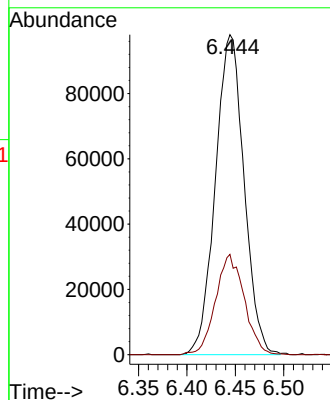
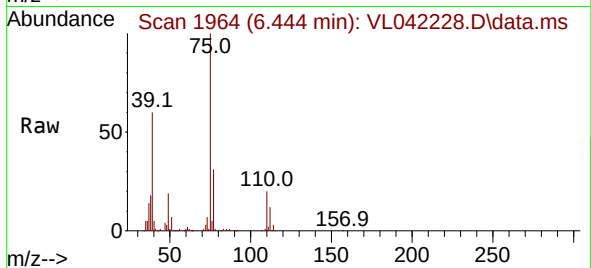
77 31.4 26.0 39.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/08/2025

Supervised By :Mahesh Dadoda 04/09/2025



#46

cis-1,3-Dichloropropene

Concen: 8.888 ppbv

RT: 5.632 min Scan# 1713

Delta R.T. 0.039 min

Lab File: VL042228.D

Acq: 07 Apr 2025 09:31

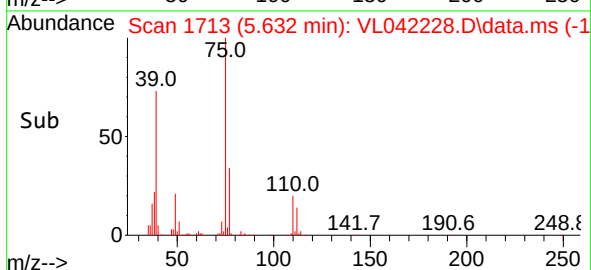
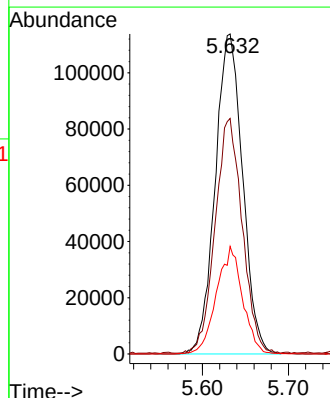
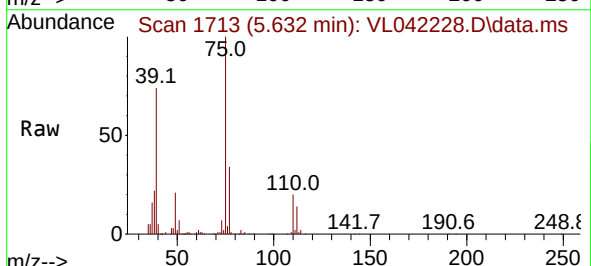
Tgt Ion: 75 Resp: 252032

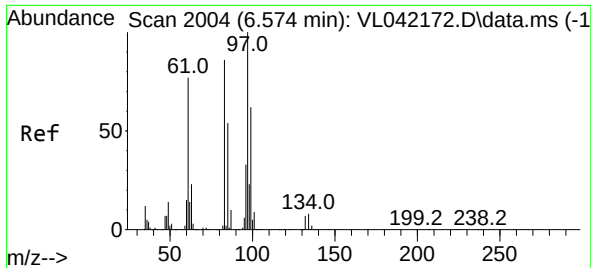
Ion Ratio Lower Upper

75 100

39 73.3 55.8 83.6

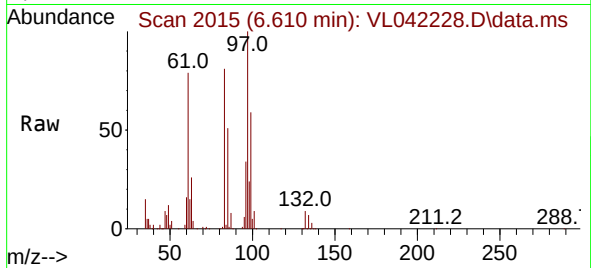
77 33.4 26.0 39.0





#47
1,1,2-Trichloroethane
Concen: 10.239 ppbv
RT: 6.610 min Scan# 2004
Delta R.T. 0.035 min
Lab File: VL042228.D
Acq: 07 Apr 2025 09:31

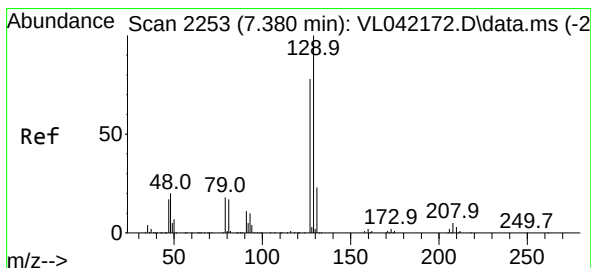
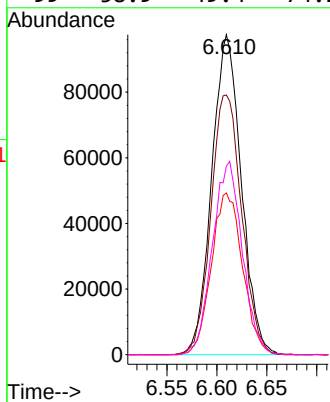
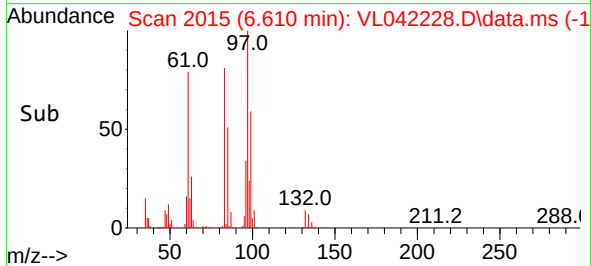
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010



Tgt Ion: 97 Resp: 200780
Ion Ratio Lower Upper
97 100
83 81.0 69.2 103.8
85 50.4 43.1 64.7
99 58.9 49.4 74.2

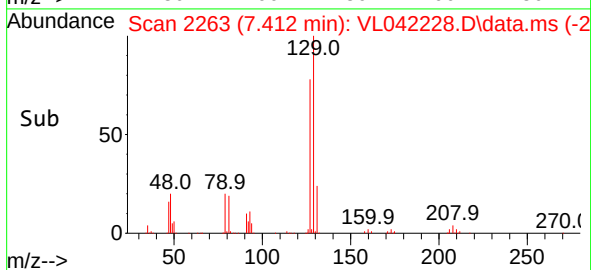
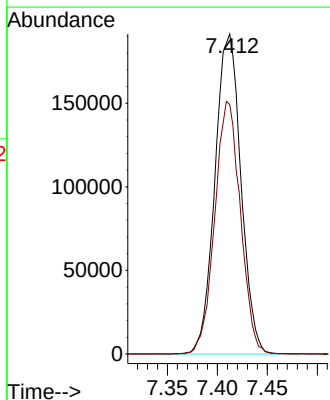
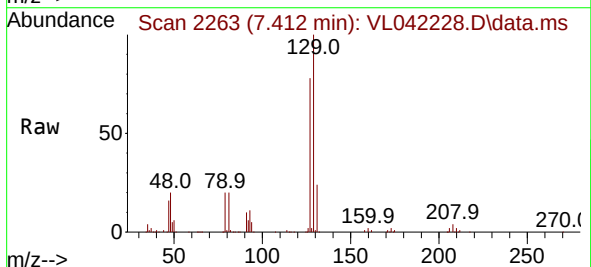
Manual Integrations
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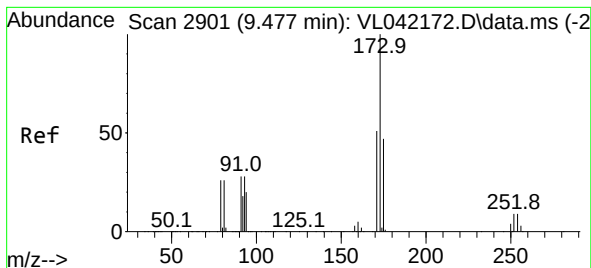
Reviewed By :Semsettin Yesilyurt 04/08/2025
Supervised By :Mahesh Dadoda 04/09/2025



#48
Dibromochloromethane
Concen: 10.438 ppbv
RT: 7.412 min Scan# 2263
Delta R.T. 0.032 min
Lab File: VL042228.D
Acq: 07 Apr 2025 09:31

Tgt Ion:129 Resp: 346881
Ion Ratio Lower Upper
129 100
127 77.8 39.1 117.2





#49

Bromoform

Concen: 9.932 ppbv

RT: 9.500 min Scan# 2901

Delta R.T. 0.023 min

Lab File: VL042228.D

Acq: 07 Apr 2025 09:31

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tgt Ion:173 Resp: 296338

Ion Ratio Lower Upper

173 100

175 48.1 38.6 57.8

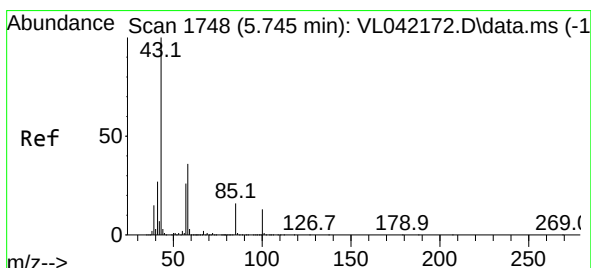
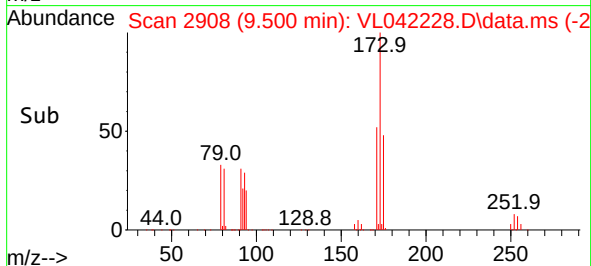
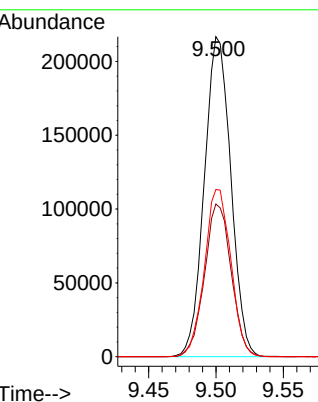
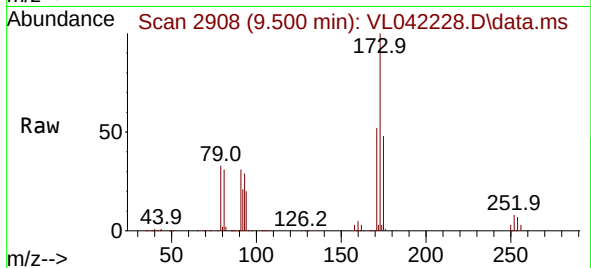
171 52.2 41.8 62.6

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/08/2025

Supervised By :Mahesh Dadoda 04/09/2025



#50

4-Methyl-2-Pentanone

Concen: 8.665 ppbv

RT: 5.781 min Scan# 1759

Delta R.T. 0.036 min

Lab File: VL042228.D

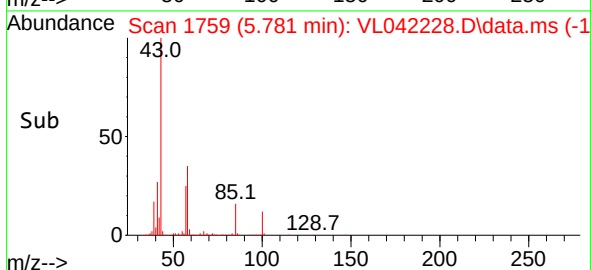
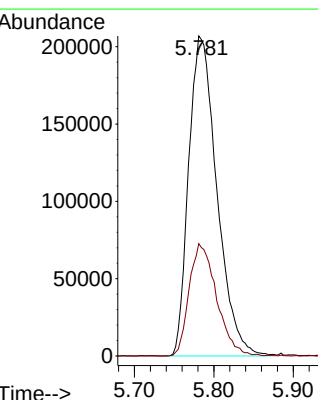
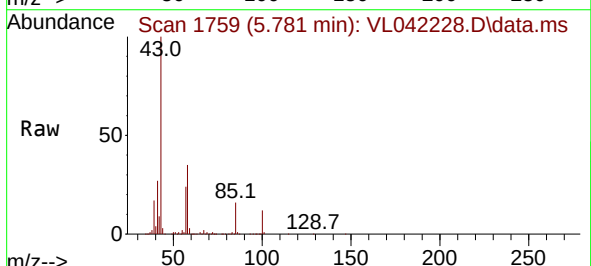
Acq: 07 Apr 2025 09:31

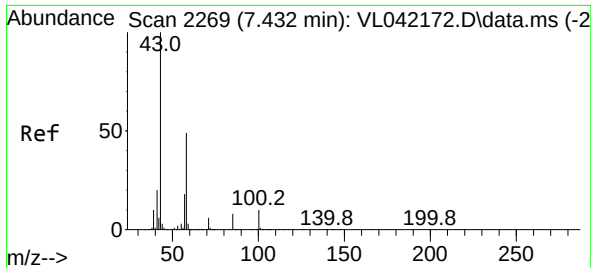
Tgt Ion: 43 Resp: 511581

Ion Ratio Lower Upper

43 100

58 34.2 29.0 43.6





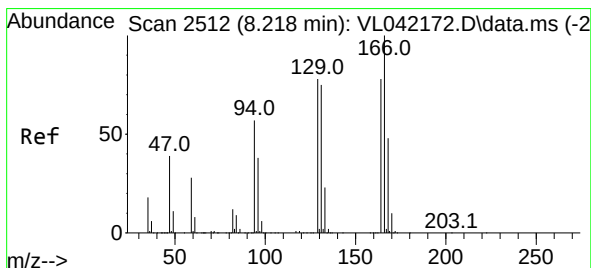
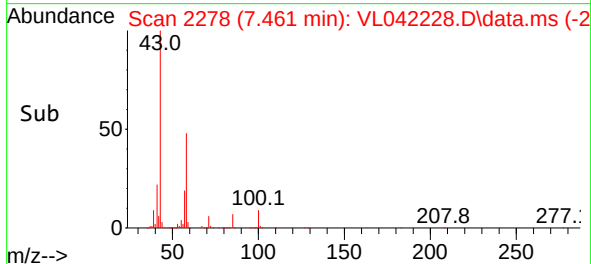
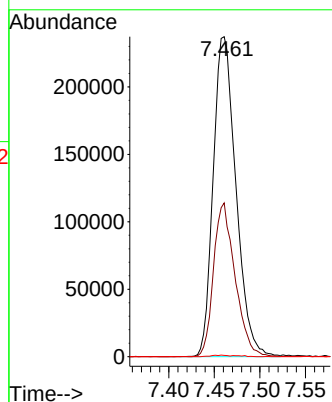
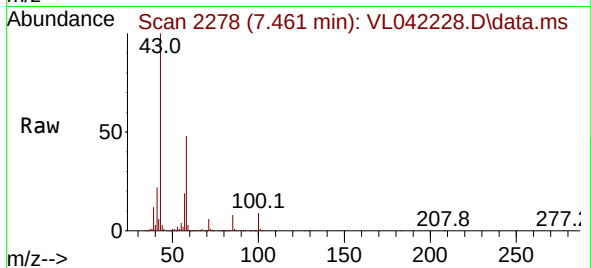
#51
2-Hexanone
Concen: 8.501 ppbv
RT: 7.461 min Scan# 21
Delta R.T. 0.029 min
Lab File: VL042228.D
Acq: 07 Apr 2025 09:31

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 43 Resp: 41218
Ion Ratio Lower Upper
43 100
58 45.4 39.7 59.5
98 0.5 0.1 0.1

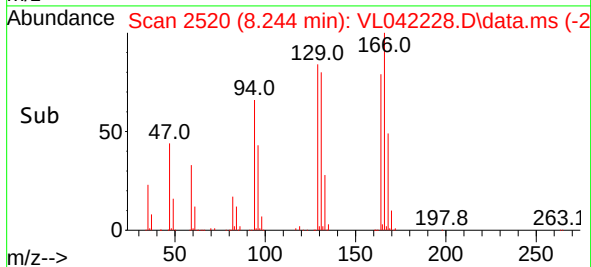
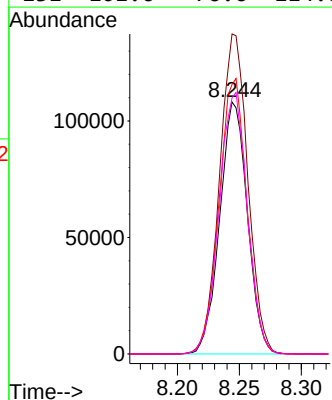
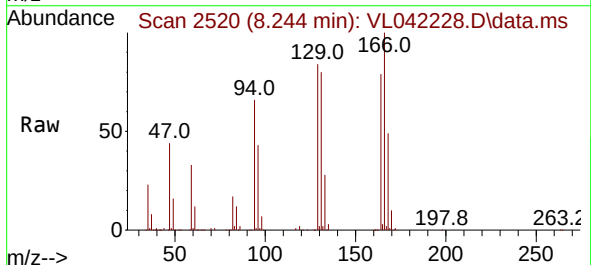
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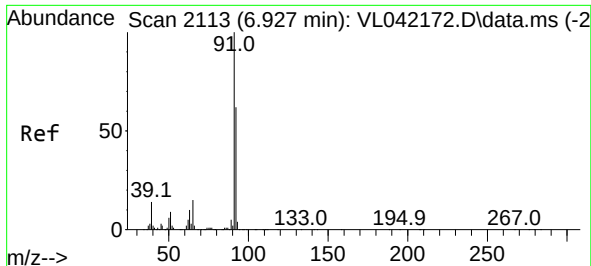
Reviewed By :Semsettin Yesilyurt 04/08/2025
Supervised By :Mahesh Dadoda 04/09/2025



#52
Tetrachloroethene
Concen: 8.322 ppbv
RT: 8.244 min Scan# 2520
Delta R.T. 0.026 min
Lab File: VL042228.D
Acq: 07 Apr 2025 09:31

Tgt Ion:164 Resp: 168107
Ion Ratio Lower Upper
164 100
166 127.0 102.5 153.7
129 106.9 79.8 119.8
131 101.6 76.6 114.8





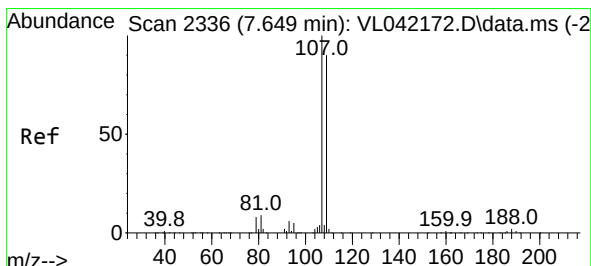
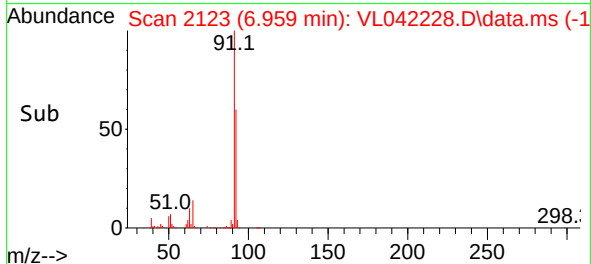
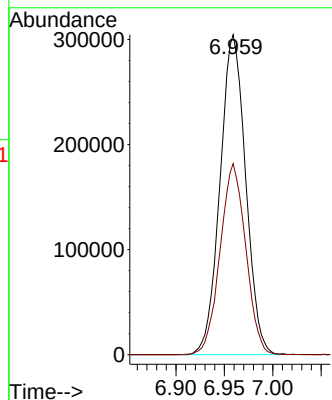
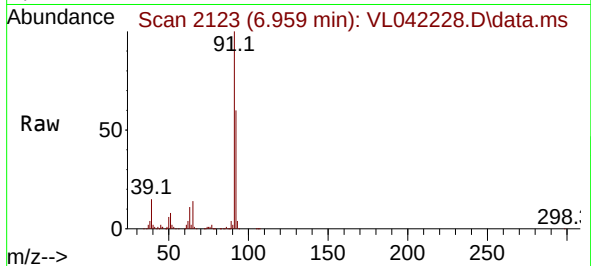
#53
Toluene
Concen: 9.286 ppbv
RT: 6.959 min Scan# 2113
Delta R.T. 0.032 min
Lab File: VL042228.D
Acq: 07 Apr 2025 09:31

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 91 Resp: 56066
Ion Ratio Lower Upper
91 100
92 59.8 48.4 72.6

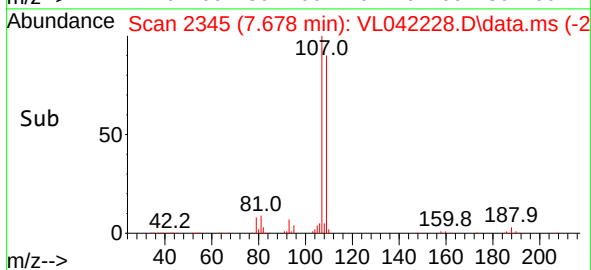
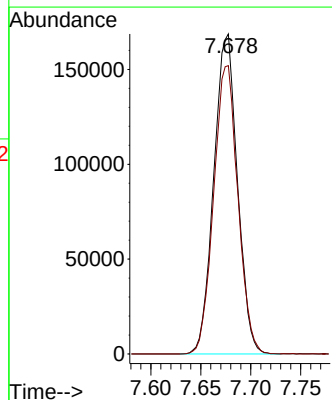
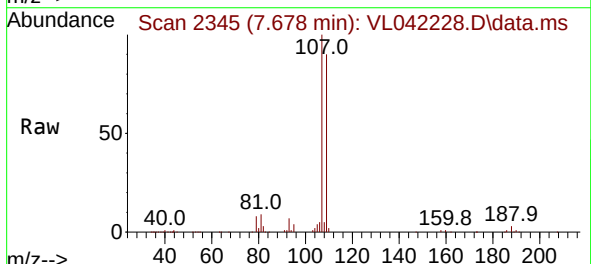
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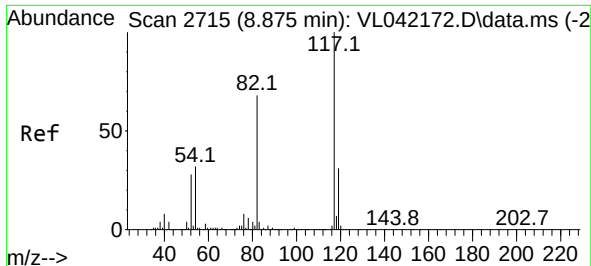
Reviewed By :Semsettin Yesilyurt 04/08/2025
Supervised By :Mahesh Dadoda 04/09/2025



#54
1,2-Dibromoethane
Concen: 10.154 ppbv
RT: 7.678 min Scan# 2345
Delta R.T. 0.029 min
Lab File: VL042228.D
Acq: 07 Apr 2025 09:31

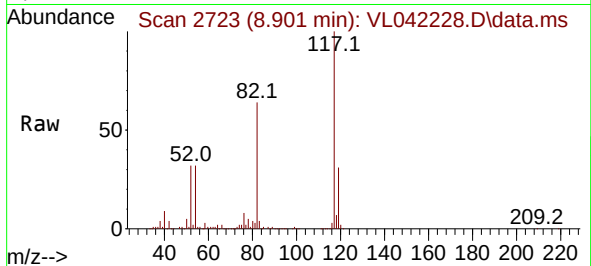
Tgt Ion:107 Resp: 277561
Ion Ratio Lower Upper
107 100
109 90.1 72.2 108.4





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.901 min Scan# 2715
Delta R.T. 0.026 min
Lab File: VL042228.D
Acq: 07 Apr 2025 09:31

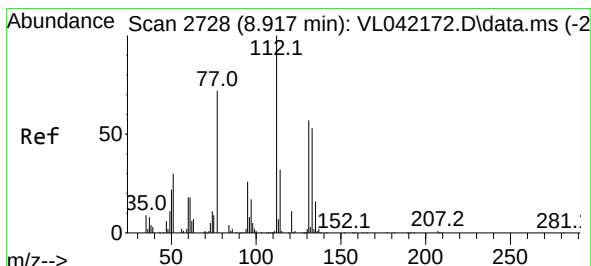
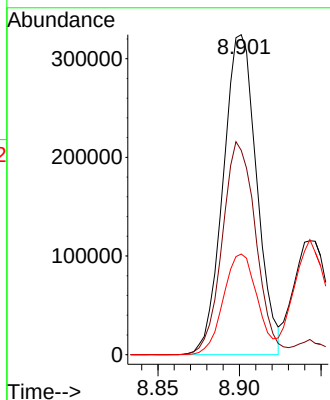
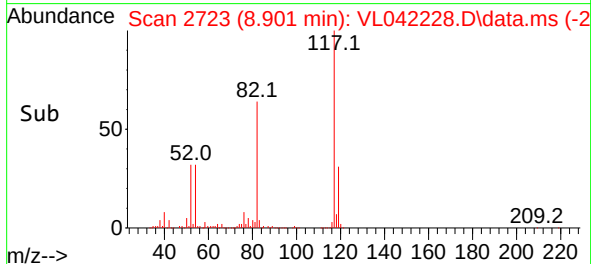
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010



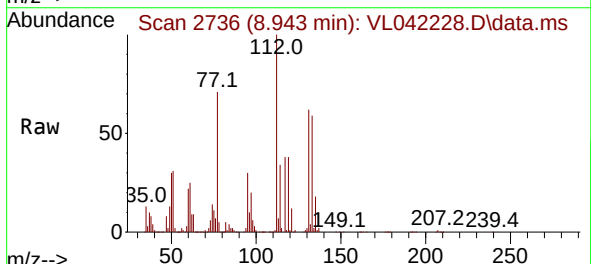
Tgt Ion:117 Resp: 46447
Ion Ratio Lower Upper
117 100
82 70.4 55.8 83.6
119 32.3 25.5 38.3

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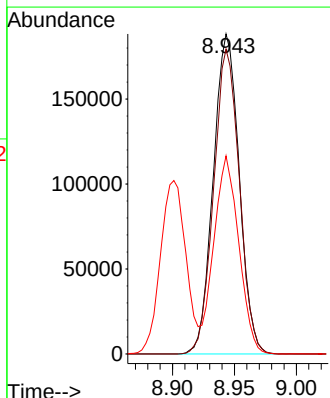
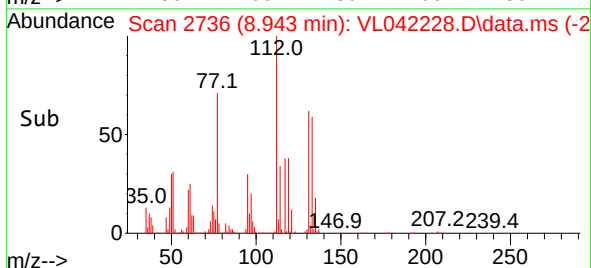
Reviewed By :Semsettin Yesilyurt 04/08/2025
Supervised By :Mahesh Dadoda 04/09/2025

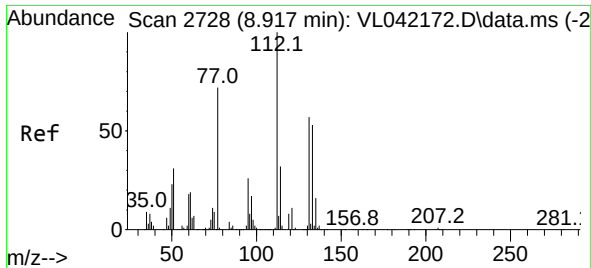


#56
1,1,1,2-Tetrachloroethane
Concen: 10.722 ppbv
RT: 8.943 min Scan# 2736
Delta R.T. 0.026 min
Lab File: VL042228.D
Acq: 07 Apr 2025 09:31



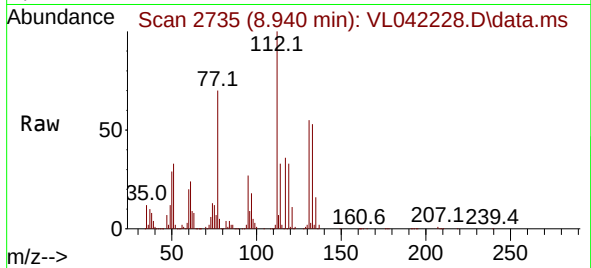
Tgt Ion:131 Resp: 274135
Ion Ratio Lower Upper
131 100
133 94.5 76.6 114.8
119 61.1 49.8 74.6





#57
Chlorobenzene
Concen: 10.368 ppbv
RT: 8.940 min Scan# 21
Delta R.T. 0.023 min
Lab File: VL042228.D
Acq: 07 Apr 2025 09:31

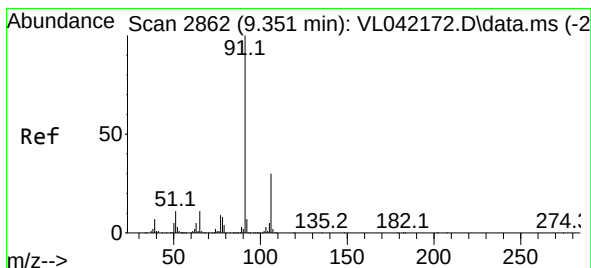
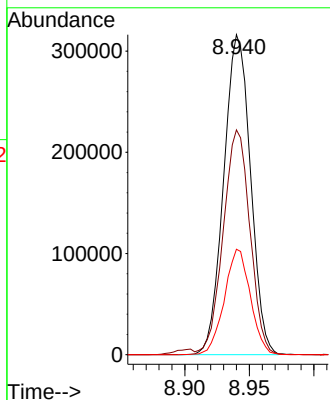
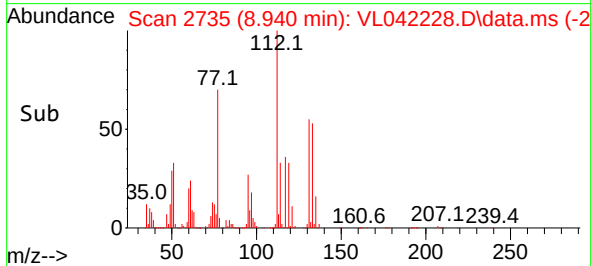
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010



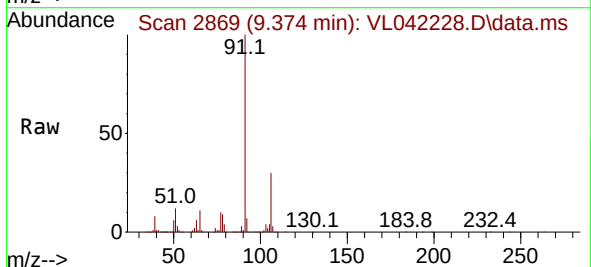
Tgt Ion:112 Resp: 45678
Ion Ratio Lower Upper
112 100
77 69.9 58.2 87.2
114 32.9 29.1 35.5

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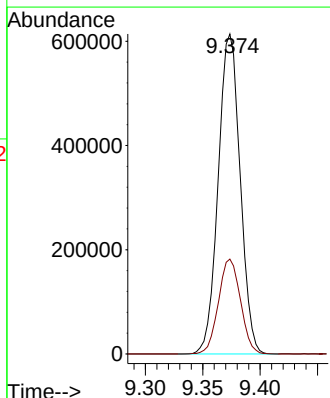
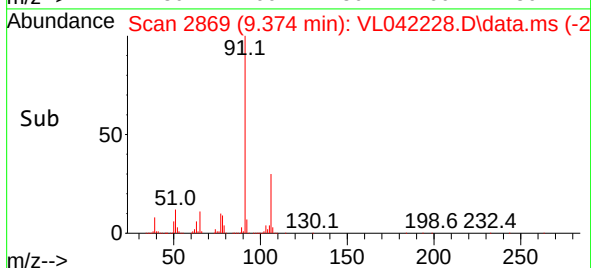
Reviewed By :Semsettin Yesilyurt 04/08/2025
Supervised By :Mahesh Dadoda 04/09/2025

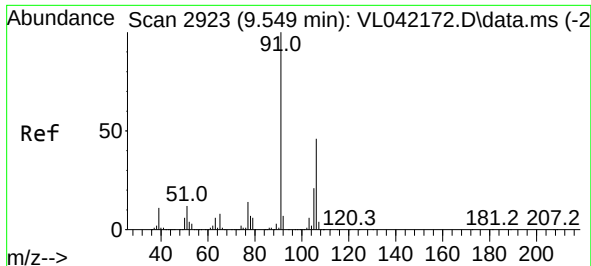


#58
Ethyl Benzene
Concen: 9.888 ppbv
RT: 9.374 min Scan# 2869
Delta R.T. 0.023 min
Lab File: VL042228.D
Acq: 07 Apr 2025 09:31



Tgt Ion: 91 Resp: 815771
Ion Ratio Lower Upper
91 100
106 29.7 24.2 36.2





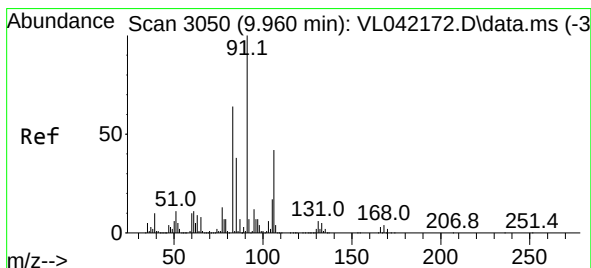
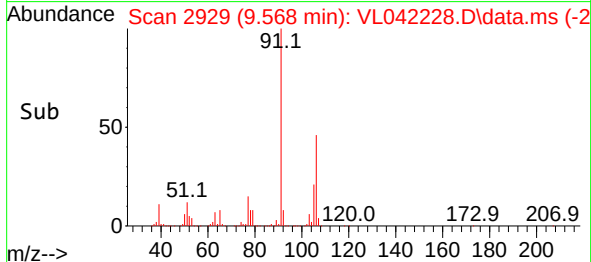
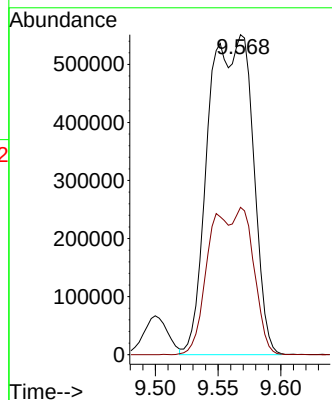
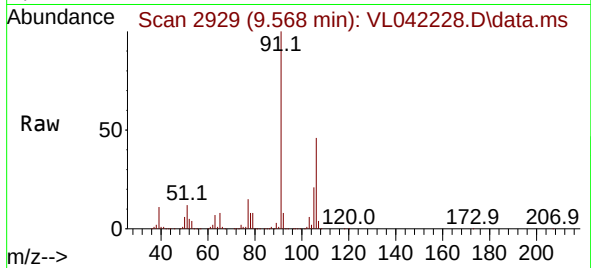
#59
m/p-Xylene
Concen: 20.698 ppbv m
RT: 9.568 min Scan# 2923
Delta R.T. 0.019 min
Lab File: VL042228.D
Acq: 07 Apr 2025 09:31

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 91 Resp: 136356
Ion Ratio Lower Upper
91 100
106 45.4 36.4 54.6

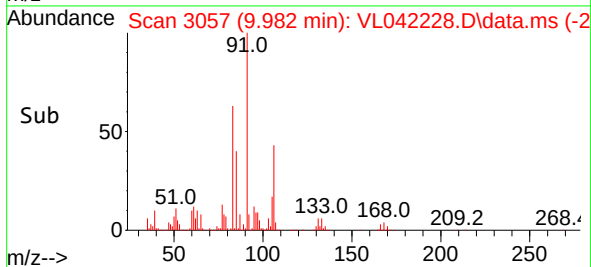
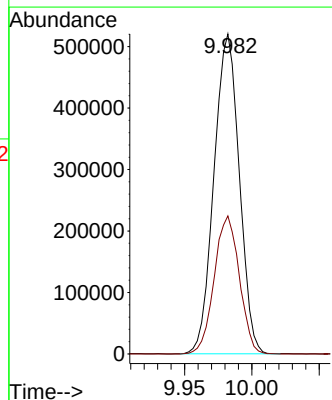
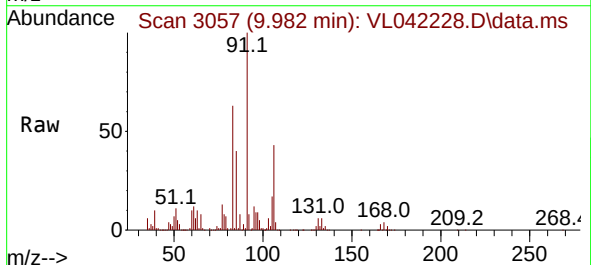
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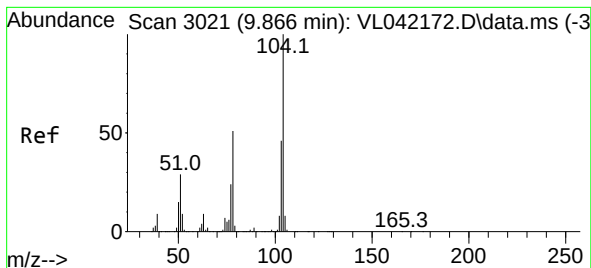
Reviewed By :Semsettin Yesilyurt 04/08/2025
Supervised By :Mahesh Dadoda 04/09/2025



#60
o-Xylene
Concen: 10.284 ppbv
RT: 9.982 min Scan# 3057
Delta R.T. 0.023 min
Lab File: VL042228.D
Acq: 07 Apr 2025 09:31

Tgt Ion: 91 Resp: 679193
Ion Ratio Lower Upper
91 100
106 42.9 20.8 62.5





#61

Styrene

Concen: 9.635 ppbv

RT: 9.888 min Scan# 3021

Delta R.T. 0.023 min

Lab File: VL042228.D

Acq: 07 Apr 2025 09:31

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tgt Ion:104 Resp: 314809

Ion Ratio Lower Upper

104 100

78 52.1 41.8 62.6

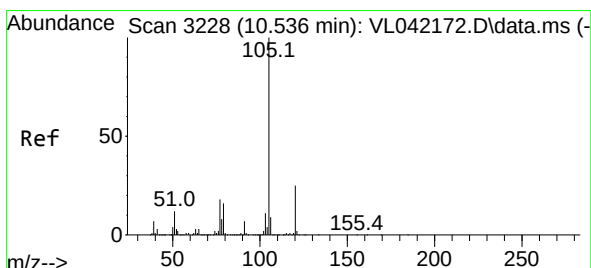
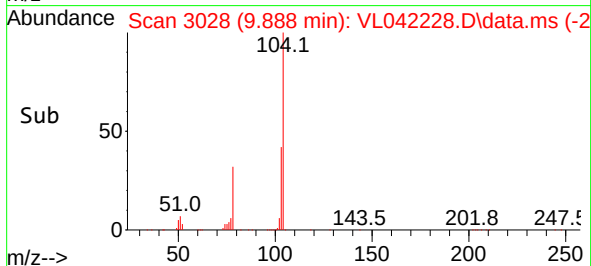
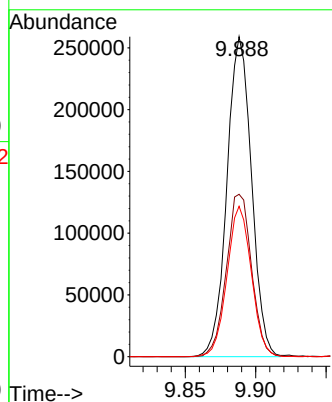
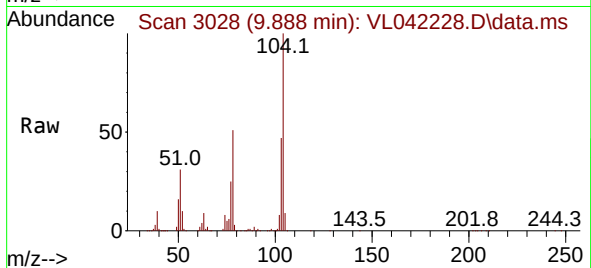
103 46.5 37.0 55.4

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Reviewed By :Semsettin Yesilyurt 04/08/2025

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#62

Isopropylbenzene

Concen: 10.265 ppbv

RT: 10.555 min Scan# 3234

Delta R.T. 0.019 min

Lab File: VL042228.D

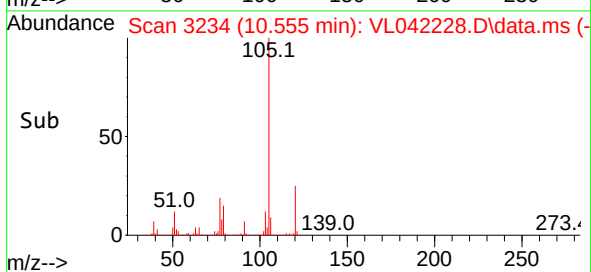
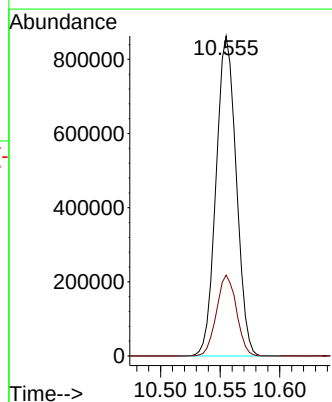
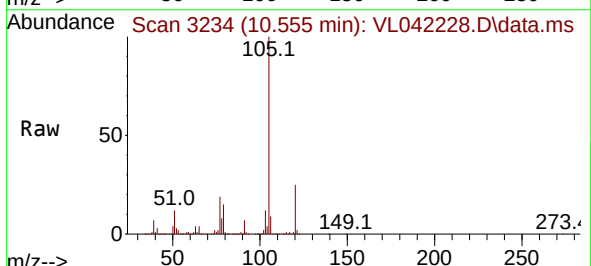
Acq: 07 Apr 2025 09:31

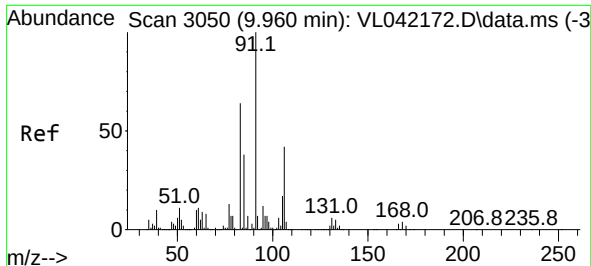
Tgt Ion:105 Resp: 1013803

Ion Ratio Lower Upper

105 100

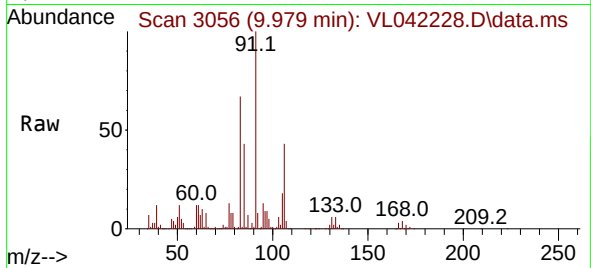
120 25.0 19.9 29.9





#63
1,1,2,2-Tetrachloroethane
Concen: 10.651 ppbv
RT: 9.979 min Scan# 3050
Delta R.T. 0.019 min
Lab File: VL042228.D
Acq: 07 Apr 2025 09:31

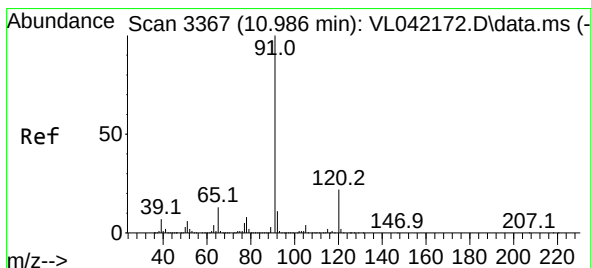
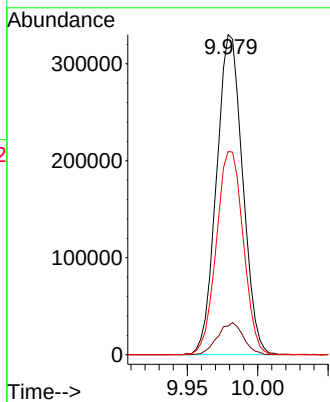
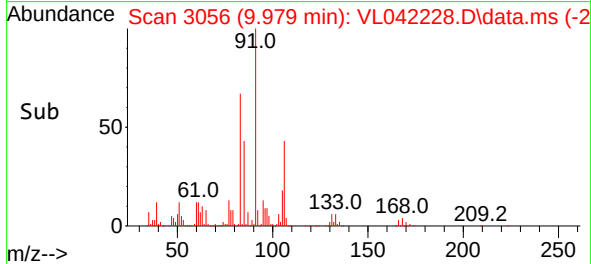
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010



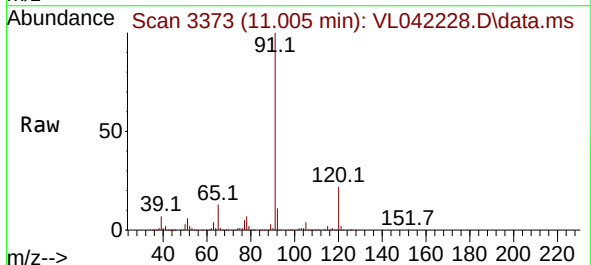
Tgt Ion: 83 Resp: 427404
Ion Ratio Lower Upper
83 100
131 9.9 4.8 14.4
85 65.3 32.5 97.5

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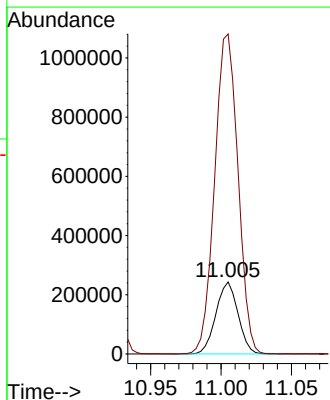
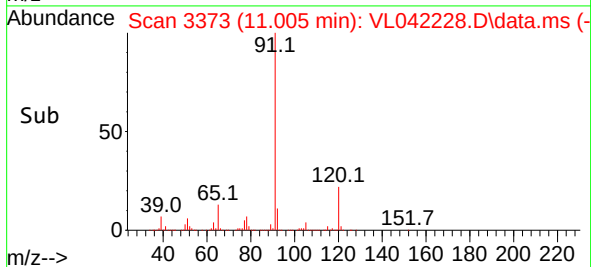
Reviewed By :Semsettin Yesilyurt 04/08/2025
Supervised By :Mahesh Dadoda 04/09/2025

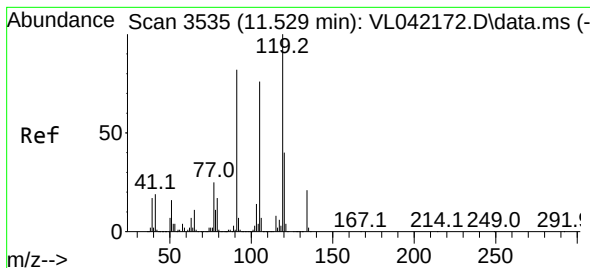


#64
n-propylbenzene
Concen: 10.429 ppbv
RT: 11.005 min Scan# 3373
Delta R.T. 0.019 min
Lab File: VL042228.D
Acq: 07 Apr 2025 09:31



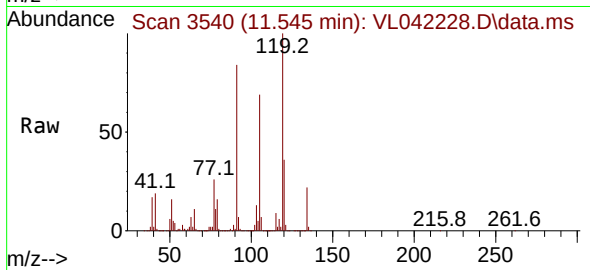
Tgt Ion:120 Resp: 265137
Ion Ratio Lower Upper
120 100
91 469.5 376.9 565.3





#65
tert-Butylbenzene
Concen: 10.171 ppbv
RT: 11.545 min Scan# 3535
Delta R.T. 0.016 min
Lab File: VL042228.D
Acq: 07 Apr 2025 09:31

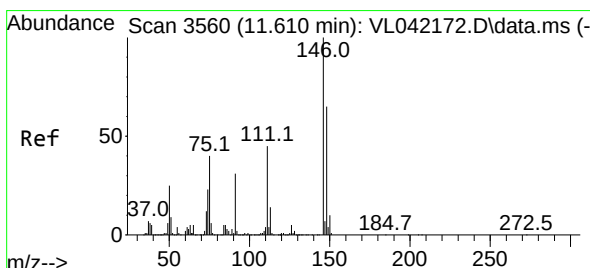
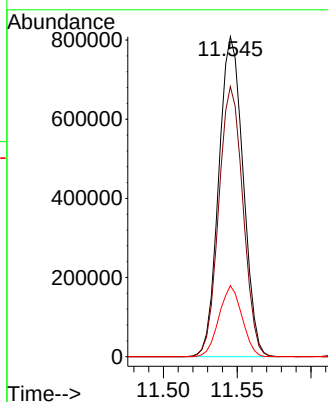
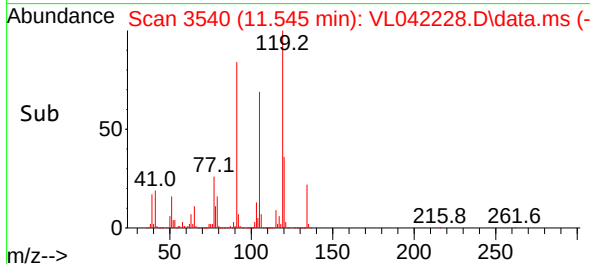
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010



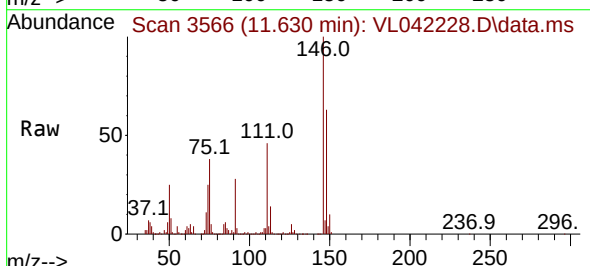
Tgt Ion: 119 Resp: 928989
Ion Ratio Lower Upper
119 100
91 83.8 66.0 99.0
134 20.9 16.7 25.1

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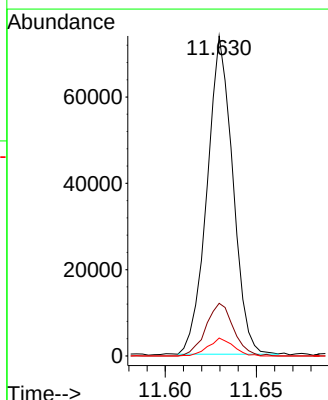
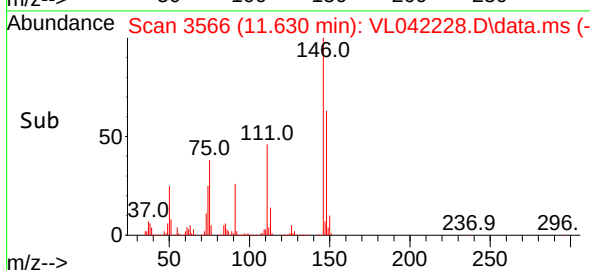
Reviewed By :Semsettin Yesilyurt 04/08/2025
Supervised By :Mahesh Dadoda 04/09/2025

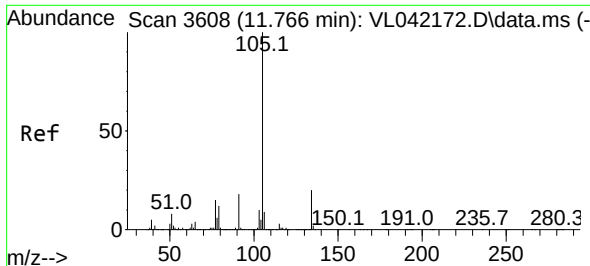


#66
Benzyl Chloride
Concen: 7.452 ppbv
RT: 11.630 min Scan# 3566
Delta R.T. 0.019 min
Lab File: VL042228.D
Acq: 07 Apr 2025 09:31



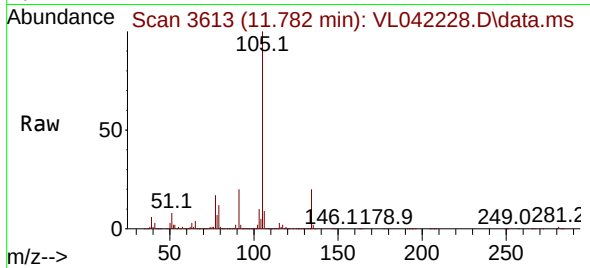
Tgt Ion: 91 Resp: 72224
Ion Ratio Lower Upper
91 100
126 17.8 13.8 20.6
128 5.5 4.5 6.7





#67
 sec-Butylbenzene
 Concen: 10.229 ppbv
 RT: 11.782 min Scan# 3184
 Delta R.T. 0.016 min
 Lab File: VL042228.D
 Acq: 07 Apr 2025 09:31

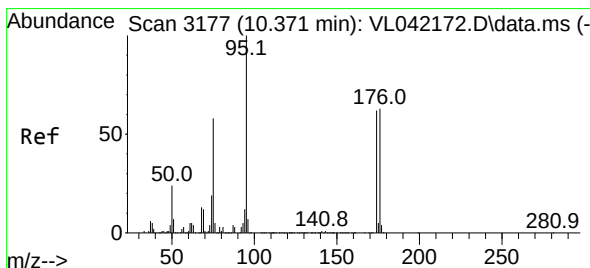
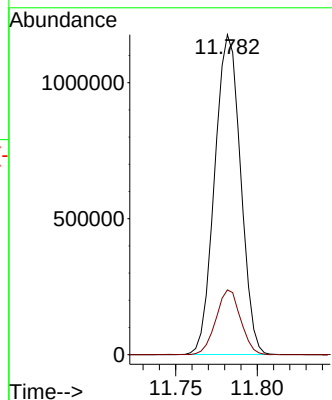
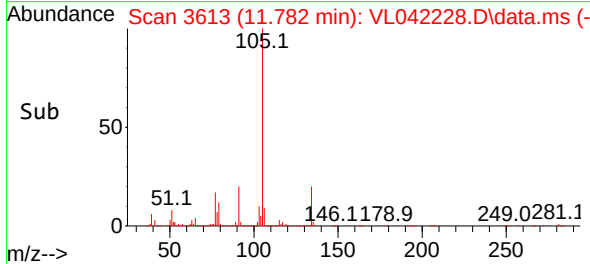
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010



Tgt Ion:105 Resp: 129864
 Ion Ratio Lower Upper
 105 100
 134 19.4 15.5 23.3

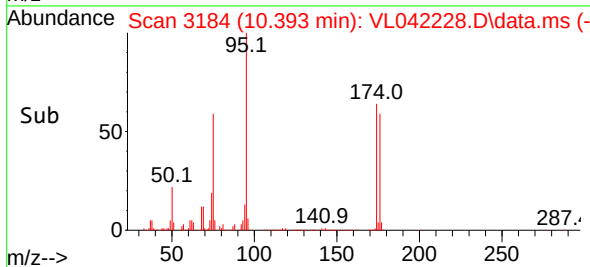
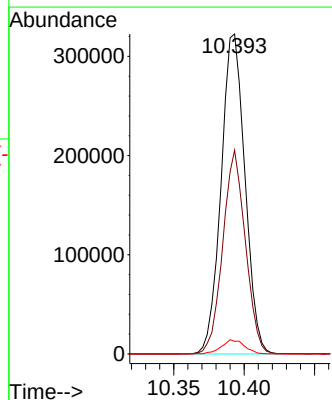
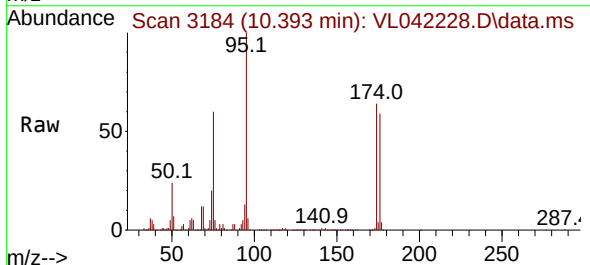
Manual Integrations
 APPROVED

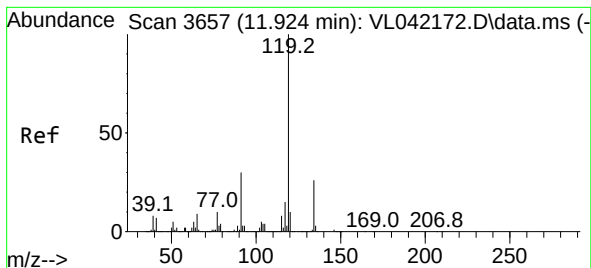
Reviewed By :Semsettin Yesilyurt 04/08/2025
 Supervised By :Mahesh Dadoda 04/09/2025



#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.971 ppbv
 RT: 10.393 min Scan# 3184
 Delta R.T. 0.023 min
 Lab File: VL042228.D
 Acq: 07 Apr 2025 09:31

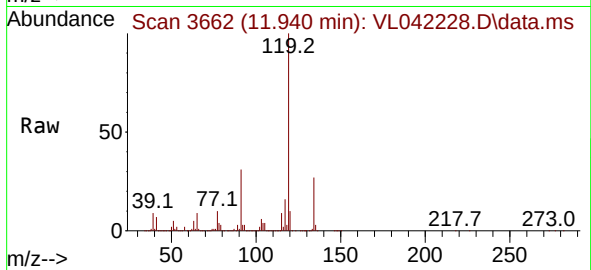
Tgt Ion: 95 Resp: 380328
 Ion Ratio Lower Upper
 95 100
 174 60.5 50.6 76.0
 175 4.3 3.8 5.6





#69
p-Isopropyltoluene
Concen: 10.324 ppbv
RT: 11.940 min Scan# 3662
Delta R.T. 0.016 min
Lab File: VL042228.D
Acq: 07 Apr 2025 09:31

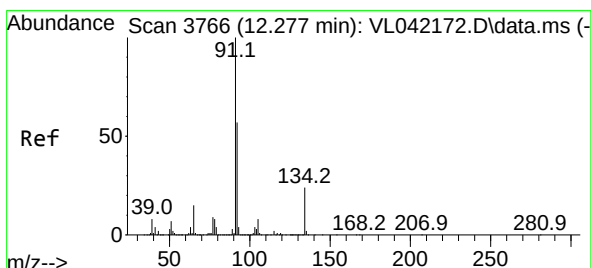
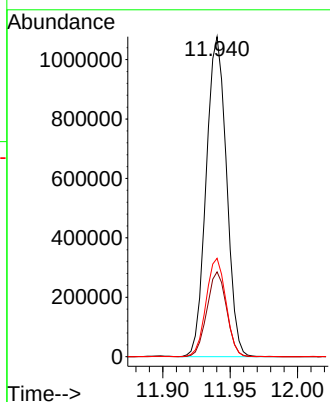
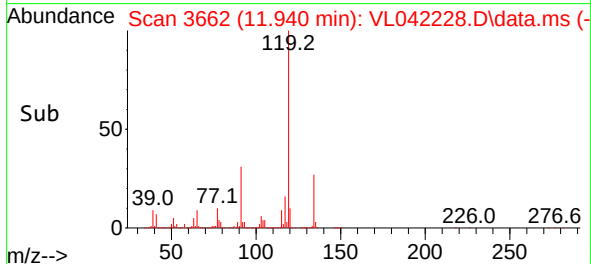
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010



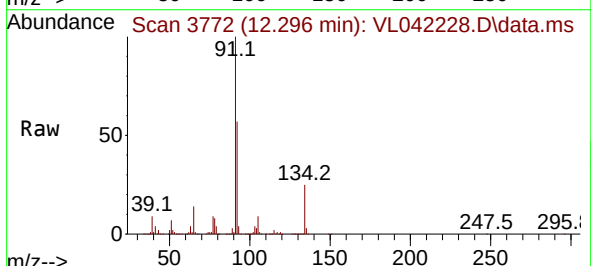
Tgt Ion: 119 Resp: 112859
Ion Ratio Lower Upper
119 100
134 25.8 20.4 30.6
91 30.1 23.7 35.5

Manual Integrations
APPROVED

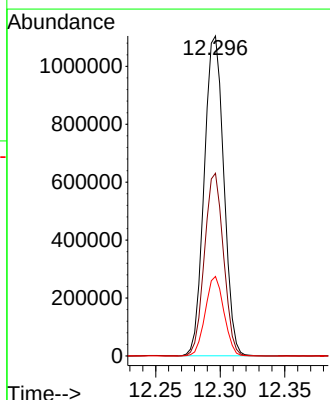
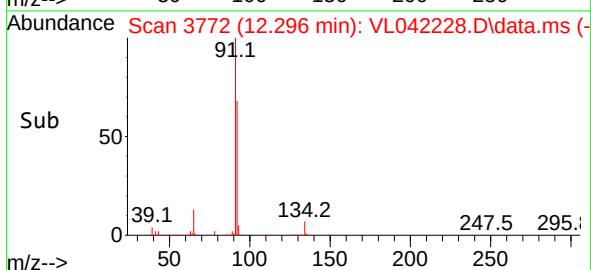
Reviewed By :Semsettin Yesilyurt 04/08/2025
Supervised By :Mahesh Dadoda 04/09/2025

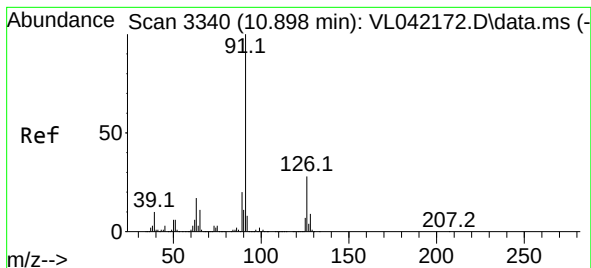


#70
n-Butylbenzene
Concen: 10.428 ppbv
RT: 12.296 min Scan# 3772
Delta R.T. 0.019 min
Lab File: VL042228.D
Acq: 07 Apr 2025 09:31



Tgt Ion: 91 Resp: 1165845
Ion Ratio Lower Upper
91 100
92 55.8 44.9 67.3
134 23.7 19.2 28.8





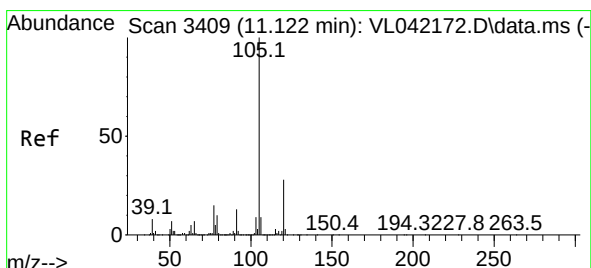
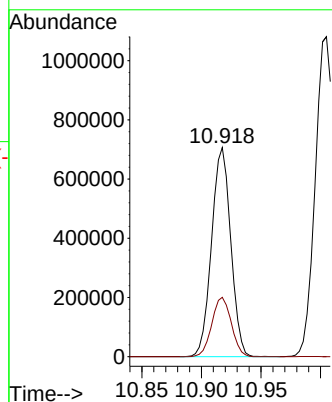
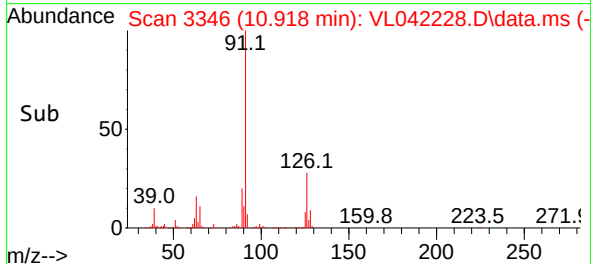
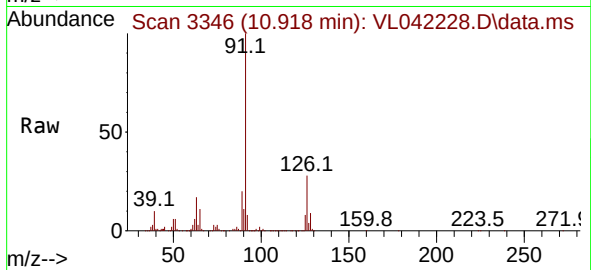
#71
2-Chlorotoluene
Concen: 10.274 ppbv
RT: 10.918 min Scan# 31
Delta R.T. 0.019 min
Lab File: VL042228.D
Acq: 07 Apr 2025 09:31

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 91 Resp: 78752
Ion Ratio Lower Upper
91 100
126 28.9 11.6 46.4

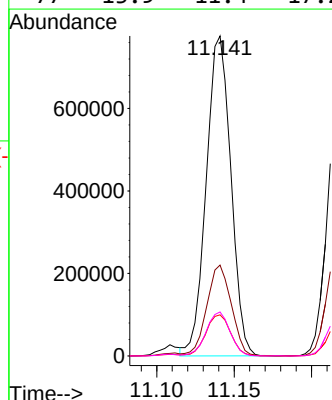
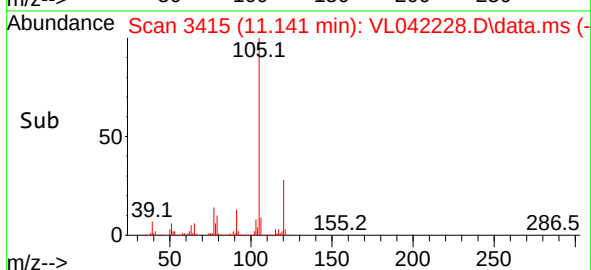
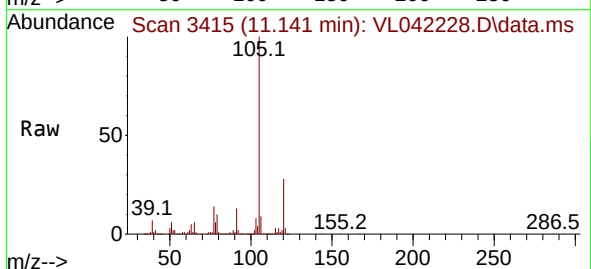
Manual Integrations
APPROVED

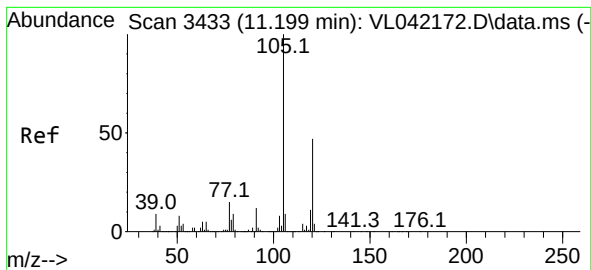
Reviewed By :Semsettin Yesilyurt 04/08/2025
Supervised By :Mahesh Dadoda 04/09/2025



#72
4-Ethyltoluene
Concen: 10.422 ppbv
RT: 11.141 min Scan# 3415
Delta R.T. 0.019 min
Lab File: VL042228.D
Acq: 07 Apr 2025 09:31

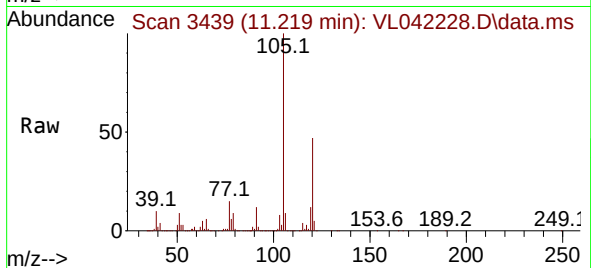
Tgt Ion:105 Resp: 857021
Ion Ratio Lower Upper
105 100
120 29.0 23.4 35.0
91 13.4 10.3 15.5
77 13.9 11.4 17.2





#73
 1,3,5-Trimethylbenzene
 Concen: 10.239 ppbv
 RT: 11.219 min Scan# 3439
 Delta R.T. 0.019 min
 Lab File: VL042228.D
 Acq: 07 Apr 2025 09:31

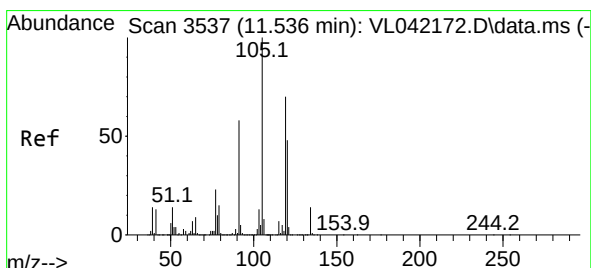
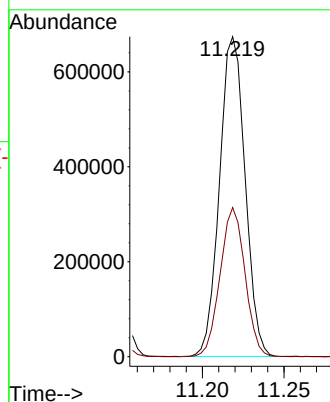
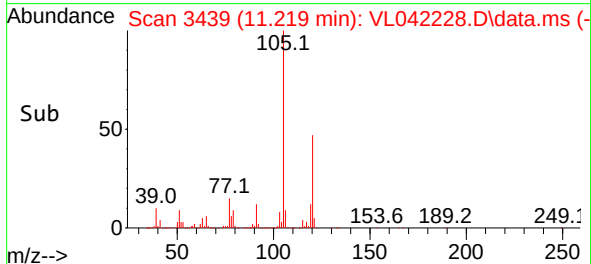
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010



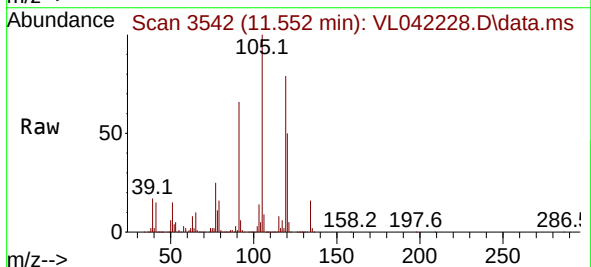
Tgt Ion:105 Resp: 735300
 Ion Ratio Lower Upper
 105 100
 120 46.6 37.4 56.0

Manual Integrations
 APPROVED

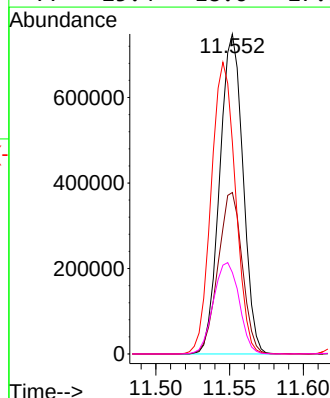
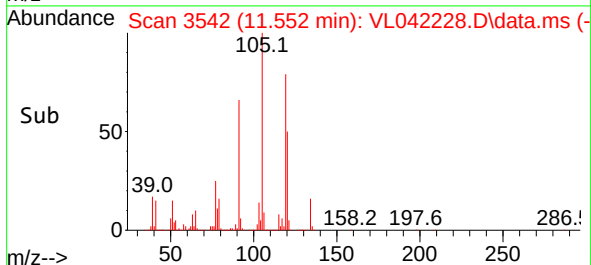
Reviewed By :Semsettin Yesilyurt 04/08/2025
 Supervised By :Mahesh Dadoda 04/09/2025

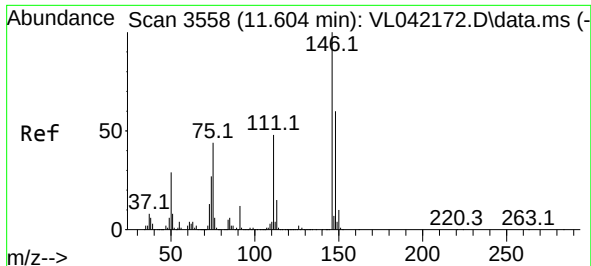


#74
 1,2,4-Trimethylbenzene
 Concen: 9.935 ppbv
 RT: 11.552 min Scan# 3542
 Delta R.T. 0.016 min
 Lab File: VL042228.D
 Acq: 07 Apr 2025 09:31



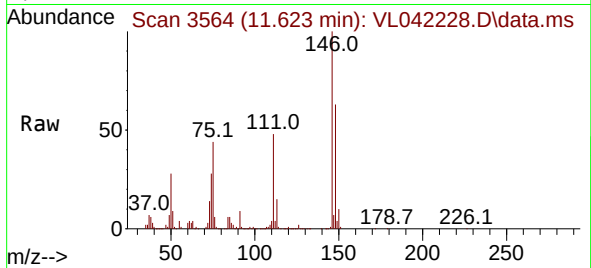
Tgt Ion:105 Resp: 821957
 Ion Ratio Lower Upper
 105 100
 120 50.5 38.6 58.0
 91 66.2 46.2 69.2
 77 25.4 18.6 27.8





#75
1,3-Dichlorobenzene
Concen: 10.703 ppbv
RT: 11.623 min Scan# 3564
Delta R.T. 0.019 min
Lab File: VL042228.D
Acq: 07 Apr 2025 09:31

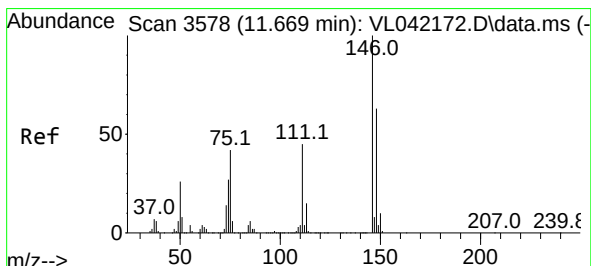
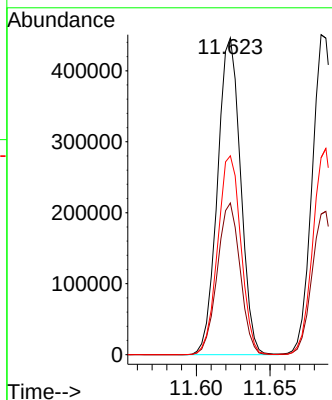
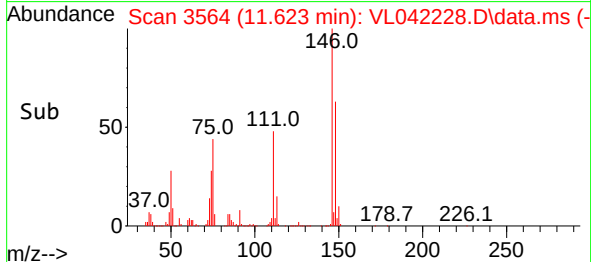
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010



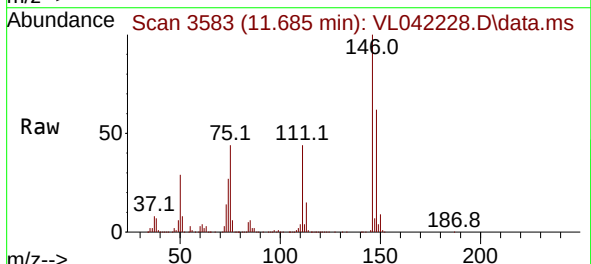
Tgt Ion:146 Resp: 485669
Ion Ratio Lower Upper
146 100
111 47.5 23.8 71.2
148 63.1 31.9 95.9

Manual Integrations
APPROVED

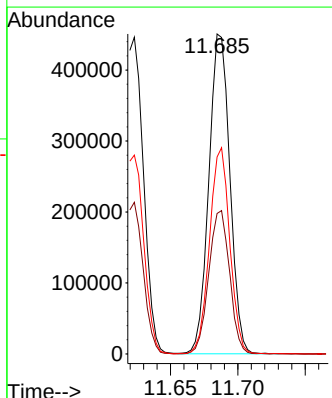
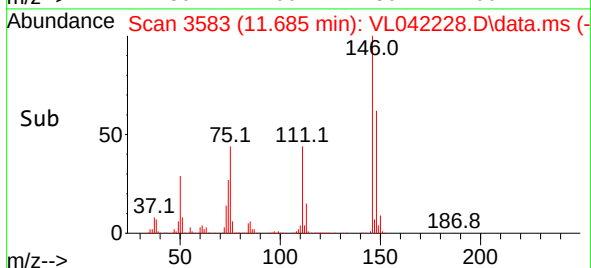
Reviewed By :Semsettin Yesilyurt 04/08/2025
Supervised By :Mahesh Dadoda 04/09/2025

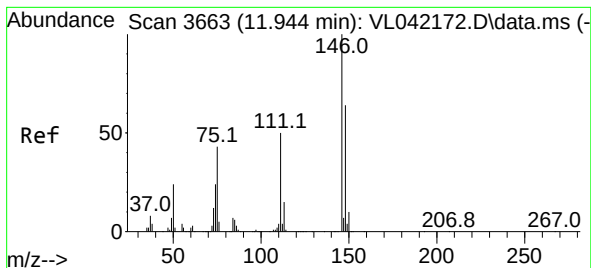


#76
1,4-Dichlorobenzene
Concen: 10.821 ppbv
RT: 11.685 min Scan# 3583
Delta R.T. 0.016 min
Lab File: VL042228.D
Acq: 07 Apr 2025 09:31



Tgt Ion:146 Resp: 488661
Ion Ratio Lower Upper
146 100
111 44.6 23.0 69.0
148 62.4 31.9 95.7





#77

1,2-Dichlorobenzene

Concen: 10.873 ppbv

RT: 11.963 min Scan# 3669

Delta R.T. 0.019 min

Lab File: VL042228.D

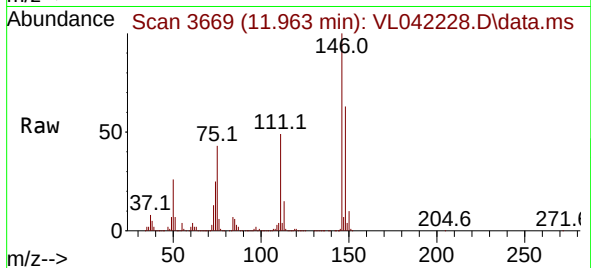
Acq: 07 Apr 2025 09:31

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010



Tgt Ion:146 Resp: 48037

Ion Ratio Lower Upper

146 100

111 48.6 24.8 74.3

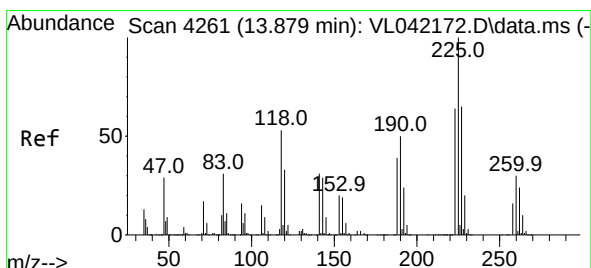
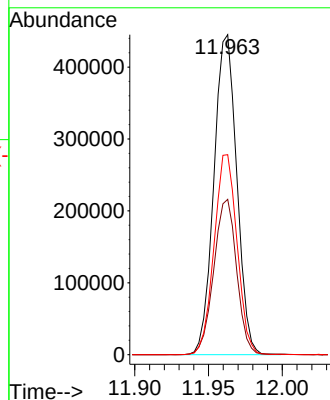
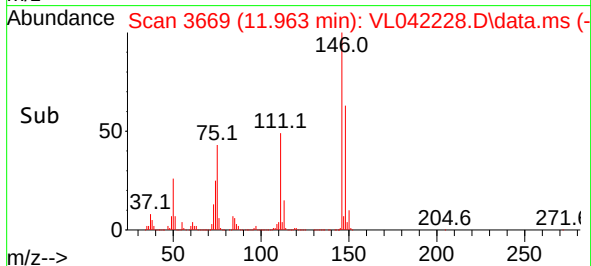
148 62.9 31.6 94.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/08/2025

Supervised By :Mahesh Dadoda 04/09/2025



#78

Hexachloro-1,3-Butadiene

Concen: 8.646 ppbv

RT: 13.895 min Scan# 4266

Delta R.T. 0.016 min

Lab File: VL042228.D

Acq: 07 Apr 2025 09:31

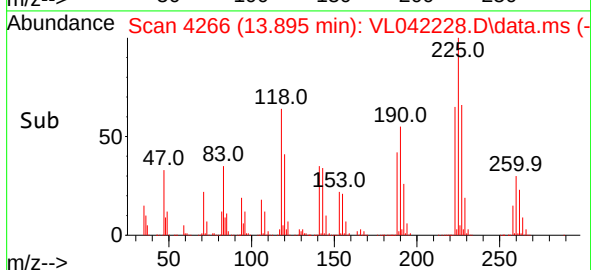
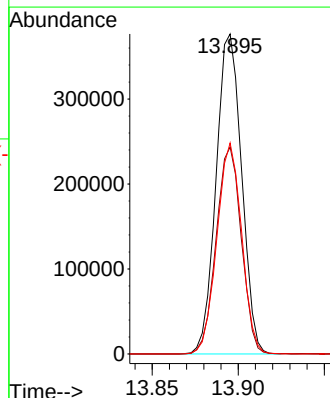
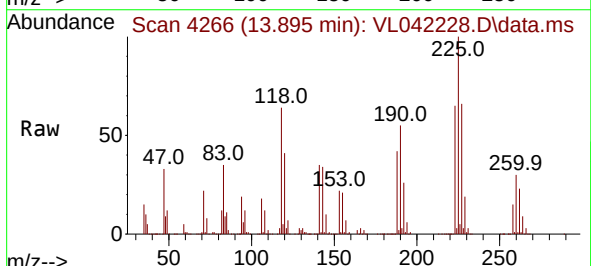
Tgt Ion:225 Resp: 388827

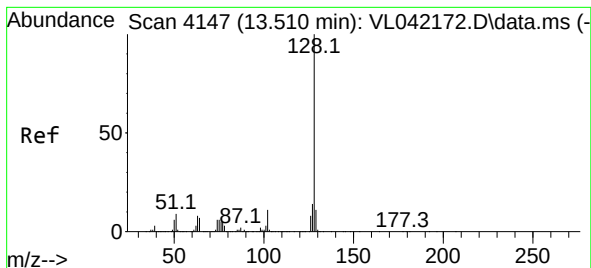
Ion Ratio Lower Upper

225 100

223 63.8 50.6 76.0

227 63.9 51.2 76.8





#79

Naphthalene

Concen: 10.570 ppbv

RT: 13.526 min Scan# 4147

Delta R.T. 0.016 min

Lab File: VL042228.D

Acq: 07 Apr 2025 09:31

Instrument :

MSVOA_L

ClientSampleId :

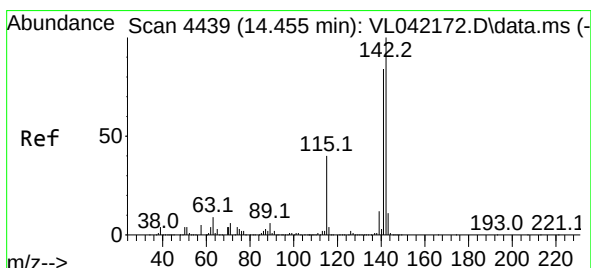
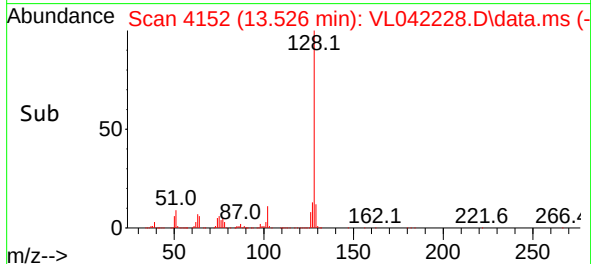
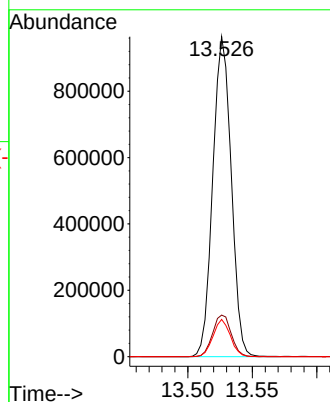
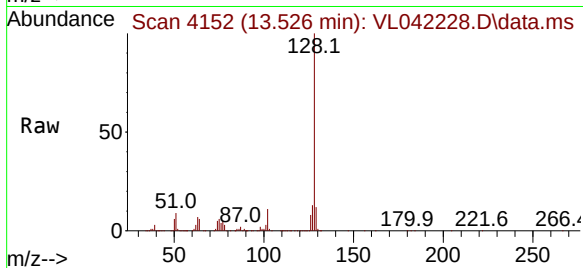
VSTDCCC010

Tgt Ion:	128	Resp:	95659
Ion Ratio	Lower	Upper	
128	100		
127	13.0	10.8	16.2
129	11.6	9.0	13.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/08/2025
Supervised By :Mahesh Dadoda 04/09/2025



#80

Naphthalene,2-methyl-

Concen: 10.419 ppbv

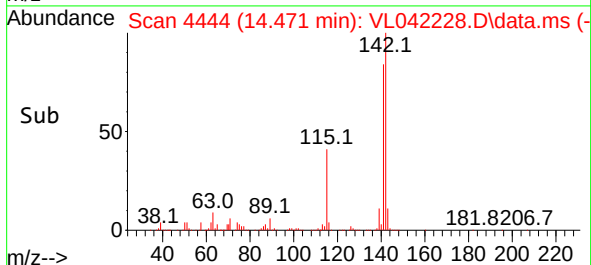
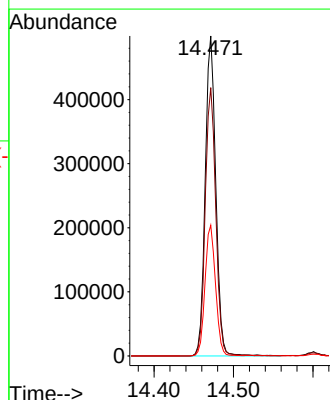
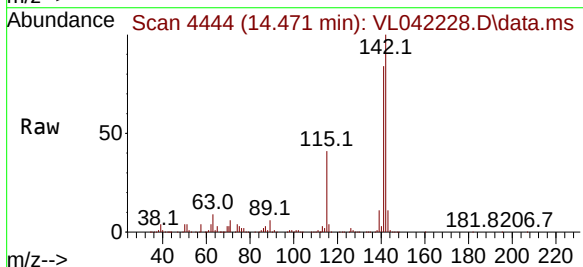
RT: 14.471 min Scan# 4444

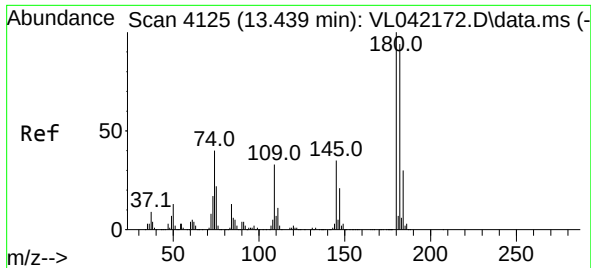
Delta R.T. 0.016 min

Lab File: VL042228.D

Acq: 07 Apr 2025 09:31

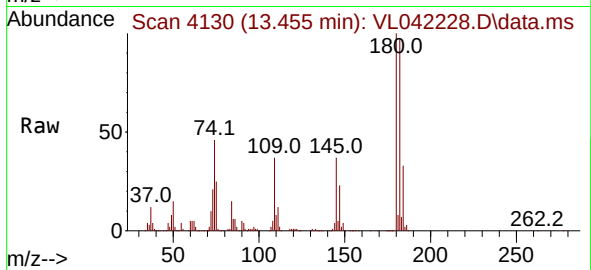
Tgt Ion:	142	Resp:	462373
Ion Ratio	Lower	Upper	
142	100		
141	84.3	66.3	99.5
115	41.1	31.6	47.4





#81
 1,2,4-Trichlorobenzene
 Concen: 9.886 ppbv
 RT: 13.455 min Scan# 41
 Delta R.T. 0.016 min
 Lab File: VL042228.D
 Acq: 07 Apr 2025 09:31

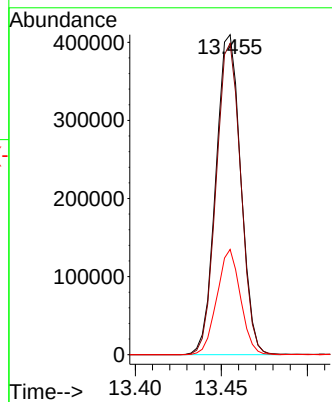
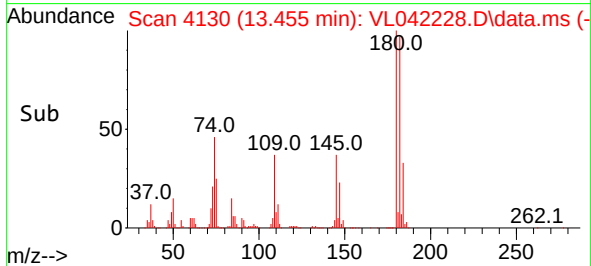
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010



Tgt Ion:180 Resp: 41267
 Ion Ratio Lower Upper
 180 100
 182 96.3 75.1 112.7
 184 31.1 24.4 36.6

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 04/08/2025
 Supervised By :Mahesh Dadoda 04/09/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040725\
 Data File : VL042228.D
 Acq On : 07 Apr 2025 09:31
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 LabSampleId :
 VSTDCCC010

Quant Time: Apr 08 01:50:24 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri Mar 28 02:00:52 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	102	0.02
2 T	Dichlorodifluoromethane	1.476	1.435	2.8	104	0.00
3	Chlorodifluoromethane	1.508	1.438	4.6	100	0.00
4	Chloromethane	0.603	0.582	3.5	104	0.00
5 T	Vinyl Chloride	0.639	0.535	16.3	99	0.00
6 T	Bromomethane	0.273	0.251	8.1	100	0.00
7	Chloroethane	0.242	0.217	10.3	97	0.00
8 T	Dichlorotetrafluoroethane	1.257	1.211	3.7	102	0.00
9 T	Propene	0.691	0.543	21.4	84	0.00
10 T	Heptane	1.839	1.613	12.3	92	0.04
11 T	Trichlorofluoromethane	1.437	1.374	4.4	105	0.00
12 T	1,1,2-Trichlorotrifluoroeth	1.181	1.102	6.7	100	0.01
13	Ethanol	0.065	0.033#	49.2#	116	0.00
14 T	Bromoethene	0.452	0.383	15.3	94	0.00
15 T	Acetone	1.399	1.206	13.8	110	0.00
16 T	1,3-Butadiene	0.683	0.575	15.8	102	0.00
17	tert-Butyl alcohol	1.742	1.479	15.1	93	0.01
18 T	1,1-Dichloroethene	0.552	0.495	10.3	100	0.01
19 T	Isopropyl Alcohol	0.789	0.694	12.0	101	0.00
20 T	Methylene Chloride	0.521	0.422	19.0	98	0.00
21 T	Allyl Chloride	0.986	0.882	10.5	100	0.01
22 T	trans-1,2-Dichloroethene	0.638	0.555	13.0	96	0.01
23 T	Vinyl Acetate	0.605	0.514	15.0	105	0.01
24 T	1,1-Dichloroethane	1.183	1.103	6.8	100	0.01
25 T	Ethyl Acetate	3.630	3.319	8.6	98	0.02
26 T	Hexane	1.402	1.268	9.6	97	0.02
27 T	Carbon Disulfide	1.503	1.376	8.4	98	0.01
28 T	Methyl tert-Butyl Ether	0.873	0.763	12.6	94	0.01
29 T	Chloroform	2.052	2.088	-1.8	110	0.02
30 T	Cyclohexane	1.217	1.073	11.8	94	0.02
31 T	cis-1,2-Dichloroethene	1.423	1.293	9.1	96	0.02
32 T	1,1,1-Trichloroethane	2.349	2.152	8.4	106	0.02
33 I	1,4-Difluorobenzene	1.000	1.000	0.0	94	0.03
34 T	2-Butanone	0.725	0.698	3.7	99	0.02
35 T	Carbon Tetrachloride	0.781	0.829	-6.1	111	0.02
36 T	Benzene	0.991	0.955	3.6	96	0.02
37 T	1,2-Dichloroethane	0.568	0.611	-7.6	107	0.02
38 T	Trichloroethene	0.414	0.393	5.1	99	0.03
39 T	1,2-Dichloropropane	0.361	0.342	5.3	96	0.03
40 T	1,4-Dioxane	0.192	0.169	12.0	94	0.03
41 T	Tetrahydrofuran	0.418	0.388	7.2	92	0.02
42 T	Bromodichloromethane	0.782	0.839	-7.3	103	0.03
43	Methyl Methacrylate	0.420	0.361	14.0	85	0.04
44 T	2,2,4-Trimethylpentane	1.675	1.606	4.1	94	0.03
45 T	t-1,3-Dichloropropene	0.450	0.393	12.7	84	0.04
46 T	cis-1,3-Dichloropropene	0.552	0.491	11.1	84	0.04
47 T	1,1,2-Trichloroethane	0.382	0.391	-2.4	101	0.04
48 T	Dibromochloromethane	0.647	0.675	-4.3	100	0.03

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040725\
 Data File : VL042228.D
 Acq On : 07 Apr 2025 09:31
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 LabSampleId :
 VSTDCCC010

Quant Time: Apr 08 01:50:24 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri Mar 28 02:00:52 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	0.581	0.577	0.7	93	0.02
50 T	4-Methyl-2-Pentanone	1.149	0.996	13.3	91	0.04
51 T	2-Hexanone	0.944	0.802	15.0	90	0.03
52 T	Tetrachloroethene	0.393	0.327	16.8	90	0.03
53 T	Toluene	1.175	1.091	7.1	91	0.03
54 T	1,2-Dibromoethane	0.532	0.540	-1.5	100	0.03
55 I	Chlorobenzene-d5	1.000	1.000	0.0	89	0.03
56	1,1,1,2-Tetrachloroethane	0.550	0.590	-7.3	103	0.03
57 T	Chlorobenzene	0.949	0.983	-3.6	101	0.02
58 T	Ethyl Benzene	1.776	1.756	1.1	94	0.02
59 T	m/p-Xylene	1.418	1.468	-3.5	99	0.02
60 T	o-Xylene	1.422	1.462	-2.8	98	0.02
61 T	Styrene	0.703	0.678	3.6	89	0.02
62	Isopropylbenzene	2.126	2.183	-2.7	99	0.02
63 T	1,1,2,2-Tetrachloroethane	0.864	0.920	-6.5	103	0.02
64	n-propylbenzene	0.547	0.571	-4.4	102	0.02
65	tert-Butylbenzene	1.966	2.000	-1.7	103	0.02
66 T	Benzyl Chloride	0.209	0.155	25.8	69	0.02
67	sec-Butylbenzene	2.733	2.796	-2.3	104	0.02
68 S	1-Bromo-4-Fluorobenzene	0.821	0.819	0.2	90	0.02
69	p-Isopropyltoluene	2.354	2.430	-3.2	105	0.02
70	n-Butylbenzene	2.407	2.510	-4.3	105	0.02
71	2-Chlorotoluene	1.650	1.696	-2.8	99	0.02
72 T	4-Ethyltoluene	1.770	1.845	-4.2	101	0.02
73 T	1,3,5-Trimethylbenzene	1.546	1.583	-2.4	102	0.02
74 T	1,2,4-Trimethylbenzene	1.781	1.770	0.6	105	0.02
75 T	1,3-Dichlorobenzene	0.977	1.046	-7.1	106	0.02
76 T	1,4-Dichlorobenzene	0.972	1.052	-8.2	106	0.02
77 T	1,2-Dichlorobenzene	0.951	1.034	-8.7	109	0.02
78 T	Hexachloro-1,3-Butadiene	0.968	0.837	13.5	93	0.02
79 T	Naphthalene	1.948	2.060	-5.7	102	0.02
80 T	Naphthalene,2-methyl-	0.955	0.995	-4.2	90	0.02
81 T	1,2,4-Trichlorobenzene	0.899	0.888	1.2	92	0.02

(#) = Out of Range

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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: WOOD06

Lab Code: CHEM Case No.: Q1725 SAS No.: Q1725 SDG No.: Q1725

Instrument ID: MSVOA_L Calibration Date/Time: 04/08/2025 08:39

Lab File ID: VL042253.D Init. Calib. Date(s): 03/27/2025 03/27/2025

Heated Purge: (Y/N) N Init. Calib. Time(s): 08:26 11:36

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

COMPOUND	RRF	RRF010	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	1.476	1.419		-3.86	30
Chloromethane	0.603	0.587		-2.65	30
Vinyl Chloride	0.639	0.552		-13.61	30
Bromomethane	0.273	0.248		-9.16	30
Chloroethane	0.242	0.223		-7.85	30
Tetrahydrofuran	0.418	0.421		0.72	30
Trichlorofluoromethane	1.437	1.367		-4.87	30
1,1,2-Trichlorotrifluoroethane	1.181	1.059		-10.33	30
Dichlorotetrafluoroethane	1.257	1.201		-4.45	30
tert-Butyl alcohol	1.742	1.370		-21.35	30
Heptane	1.839	1.736		-5.6	30
1,1-Dichloroethene	0.552	0.464		-15.94	30
Acetone	1.399	1.213		-13.3	30
Carbon Disulfide	1.503	1.317		-12.38	30
Methyl tert-Butyl Ether	0.873	0.705		-19.24	30
Methylene Chloride	0.521	0.408		-21.69	30
trans-1,2-Dichloroethene	0.638	0.551		-13.64	30
1,1-Dichloroethane	1.183	1.114		-5.83	30
Cyclohexane	1.217	1.075		-11.67	30
2-Butanone	0.725	0.757		4.41	30
Carbon Tetrachloride	0.781	0.854		9.35	30
cis-1,2-Dichloroethene	1.423	1.295		-8.99	30
Chloroform	2.052	2.115		3.07	30
1,1,1-Trichloroethane	2.349	2.094		-10.86	30
2,2,4-Trimethylpentane	1.675	1.790		6.87	30
Benzene	0.991	1.038		4.74	30
1,2-Dichloroethane	0.568	0.631		11.09	30
Trichloroethene	0.414	0.415		0.24	30
1,2-Dichloropropane	0.361	0.379		4.99	30
Bromodichloromethane	0.782	0.879		12.4	30
4-Methyl-2-Pentanone	1.149	1.094		-4.79	30
Toluene	1.175	1.158		-1.45	30
t-1,3-Dichloropropene	0.450	0.373		-17.11	30
cis-1,3-Dichloropropene	0.552	0.490		-11.23	30
1,1,2-Trichloroethane	0.382	0.420		9.95	30
Dibromochloromethane	0.647	0.697		7.73	30
1,2-Dibromoethane	0.532	0.567		6.58	30
Tetrachloroethene	0.393	0.348		-11.45	30

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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: WOOD06

Lab Code: CHEM Case No.: Q1725 SAS No.: Q1725 SDG No.: Q1725

Instrument ID: MSVOA_L Calibration Date/Time: 04/08/2025 08:39

Lab File ID: VL042253.D Init. Calib. Date(s): 03/27/2025 03/27/2025

Heated Purge: (Y/N) N Init. Calib. Time(s): 08:26 11:36

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

COMPOUND	RRF	RRF010	MIN RRF	%D	MAX%D
Chlorobenzene	0.949	1.082		14.02	30
Ethyl Benzene	1.776	1.861		4.79	30
m/p-Xylene	1.418	1.579		11.35	30
o-Xylene	1.422	1.558		9.56	30
Styrene	0.703	0.701		-0.28	30
Bromoform	0.581	0.604		3.96	30
1,1,2,2-Tetrachloroethane	0.864	1.031		19.33	30
2-Chlorotoluene	1.650	1.805		9.39	30
1,3,5-Trimethylbenzene	1.546	1.713		10.8	30
1,2,4-Trimethylbenzene	1.781	1.899		6.63	30
1,3-Dichlorobenzene	0.977	1.132		15.86	30
1,4-Dichlorobenzene	0.972	1.131		16.36	30
1,2-Dichlorobenzene	0.951	1.126		18.4	30
1,2,4-Trichlorobenzene	0.899	0.952		5.89	30
Hexachloro-1,3-Butadiene	0.968	0.893		-7.75	30
1,3-Butadiene	0.683	0.590		-13.62	30
Naphthalene	1.948	2.164		11.09	30
4-Ethyltoluene	1.770	1.981		11.92	30
1-Bromo-4-Fluorobenzene	0.821	0.820		-0.12	30
Hexane	1.402	1.336		-4.71	30
Allyl Chloride	0.986	0.847		-14.1	30
1,4-Dioxane	191.626	180.303		-5.91	30
Methyl Methacrylate	0.420	0.390		-7.14	30

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\VL040825\
 Data File : VL042253.D
 Acq On : 08 Apr 2025 08:39
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 04/09/2025
 Supervised By :Mahesh Dadoda 04/09/2025

Quant Time: Apr 09 01:50:44 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2025

QLast Update : Fri Mar 28 02:00:52 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.800	49	192748	10.000	ppbv	0.02
33) 1,4-Difluorobenzene	3.981	114	496271	10.000	ppbv	0.03
55) Chlorobenzene-d5	8.904	117	446954	10.000	ppbv	0.03

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.393 95 366722 9.991 ppbv 0.02
 Spiked Amount 10.000 Range 65 - 135 Recovery = 99.900%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.505	85	273431	9.608	ppbv	99
3) Chlorodifluoromethane	1.483	51	290289	9.985	ppbv	99
4) Chloromethane	1.538	50	113157	9.729	ppbv	98
5) Vinyl Chloride	1.586	62	106450	8.637	ppbv	94
6) Bromomethane	1.674	94	47897	9.087	ppbv	99
7) Chloroethane	1.712	64	43021	9.215	ppbv	100
8) Dichlorotetrafluoroethane	1.560	85	231550	9.554	ppbv	93
9) Propene	1.489	41	107995	8.104	ppbv	98
10) Heptane	5.011	43	334651	9.441	ppbv	99
11) Trichlorofluoromethane	1.884	101	263560	9.518	ppbv	100
12) 1,1,2-Trichlorotrifluoro...	2.149	101	204093	8.967	ppbv	96
13) Ethanol	1.729	45	5903	4.686	ppbv	92
14) Bromoethene	1.790	108	73578	8.438	ppbv	99
15) Acetone	1.842	43	233895	8.677	ppbv	96
16) 1,3-Butadiene	1.615	39	113699	8.637	ppbv	97
17) tert-Butyl alcohol	2.049	59	264061	7.865	ppbv	98
18) 1,1-Dichloroethene	2.043	96	89526	8.414	ppbv	96
19) Isopropyl Alcohol	1.894	45	131605	8.653	ppbv	98
20) Methylene Chloride	2.072	84	78560	7.825	ppbv	96
21) Allyl Chloride	2.107	41	163305	8.590	ppbv	98
22) trans-1,2-Dichloroethene	2.353	96	106297	8.643	ppbv	98
23) Vinyl Acetate	2.476	43	96990	8.313	ppbv #	97
24) 1,1-Dichloroethane	2.421	63	214800	9.422	ppbv	98
25) Ethyl Acetate	2.852	43	678925	9.704	ppbv	99
26) Hexane	2.839	57	257513	9.529	ppbv	97
27) Carbon Disulfide	2.159	76	253909	8.762	ppbv	98
28) Methyl tert-Butyl Ether	2.454	73	135921	8.078	ppbv	97
29) Chloroform	2.861	83	407591	10.306	ppbv	98
30) Cyclohexane	3.878	84	207216	8.831	ppbv	98
31) cis-1,2-Dichloroethene	2.735	61	249595	9.098	ppbv	95
32) 1,1,1-Trichloroethane	3.386	97	403665	8.915	ppbv	97
34) 2-Butanone	2.570	43	375791	10.443	ppbv	99
35) Carbon Tetrachloride	3.784	117	423863	10.934	ppbv	99
36) Benzene	3.677	78	514967	10.467	ppbv	98
37) 1,2-Dichloroethane	3.237	62	313194	11.119	ppbv	99
38) Trichloroethene	4.574	130	205933	10.032	ppbv	96
39) 1,2-Dichloropropane	4.341	63	188150	10.501	ppbv	93
40) 1,4-Dioxane	4.613	88	89479	9.409	ppbv #	96
41) Tetrahydrofuran	3.072	42	208736	10.073	ppbv	96
42) Bromodichloromethane	4.515	83	436058	11.230	ppbv	98
43) Methyl Methacrylate	4.910	69	193449	9.288	ppbv	99
44) 2,2,4-Trimethylpentane	4.664	57	888509	10.687	ppbv	97
45) t-1,3-Dichloropropene	6.451	75	184866	8.273	ppbv	93

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040825\
 Data File : VL042253.D
 Acq On : 08 Apr 2025 08:39
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 04/09/2025
 Supervised By :Mahesh Dadoda 04/09/2025

Quant Time: Apr 09 01:50:44 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M

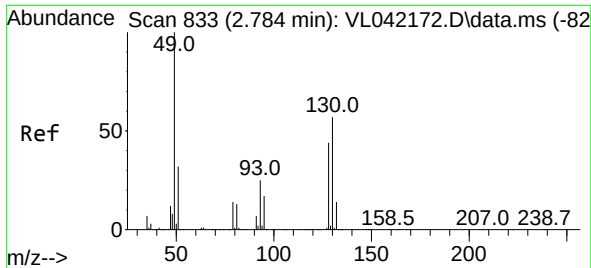
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2

QLast Update : Fri Mar 28 02:00:52 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.635	75	243227	8.880	ppbv	97
47) 1,1,2-Trichloroethane	6.613	97	208553	11.011	ppbv	99
48) Dibromochloromethane	7.415	129	346117	10.783	ppbv	99
49) Bromoform	9.503	173	299582	10.395	ppbv	99
50) 4-Methyl-2-Pentanone	5.787	43	542853	9.519	ppbv	96
51) 2-Hexanone	7.464	43	433929	9.266	ppbv #	96
52) Tetrachloroethene	8.247	164	172915	8.862	ppbv	94
53) Toluene	6.962	91	574664	9.853	ppbv	98
54) 1,2-Dibromoethane	7.681	107	281436	10.659	ppbv	96
56) 1,1,1,2-Tetrachloroethane	8.946	131	286554	11.647	ppbv	99
57) Chlorobenzene	8.943	112	483780	11.411	ppbv	97
58) Ethyl Benzene	9.377	91	831947	10.479	ppbv	99
59) m/p-Xylene	9.571	91	1411551m	22.266	ppbv	
60) o-Xylene	9.982	91	696371	10.958	ppbv	97
61) Styrene	9.891	104	313307	9.965	ppbv	99
62) Isopropylbenzene	10.558	105	1044218	10.988	ppbv	99
63) 1,1,2,2-Tetrachloroethane	9.982	83	460968	11.938	ppbv	99
64) n-propylbenzene	11.005	120	279848	11.439	ppbv	98
65) tert-Butylbenzene	11.549	119	945232	10.755	ppbv	100
66) Benzyl Chloride	11.633	91	65203	6.992	ppbv	98
67) sec-Butylbenzene	11.785	105	1343060	10.994	ppbv	100
69) p-Isopropyltoluene	11.940	119	1144759	10.882	ppbv	100
70) n-Butylbenzene	12.296	91	1194481	11.103	ppbv	99
71) 2-Chlorotoluene	10.918	91	806572	10.935	ppbv	99
72) 4-Ethyltoluene	11.141	105	885452	11.190	ppbv	99
73) 1,3,5-Trimethylbenzene	11.222	105	765708	11.080	ppbv	99
74) 1,2,4-Trimethylbenzene	11.555	105	848667	10.660	ppbv	99
75) 1,3-Dichlorobenzene	11.626	146	505824	11.584	ppbv	99
76) 1,4-Dichlorobenzene	11.688	146	505562	11.634	ppbv	99
77) 1,2-Dichlorobenzene	11.963	146	503274	11.837	ppbv	99
78) Hexachloro-1,3-Butadiene	13.895	225	399147	9.223	ppbv	99
79) Naphthalene	13.529	128	967317	11.108	ppbv	99
80) Naphthalene,2-methyl-	14.475	142	457943	10.723	ppbv	98
81) 1,2,4-Trichlorobenzene	13.455	180	425466	10.592	ppbv	99

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



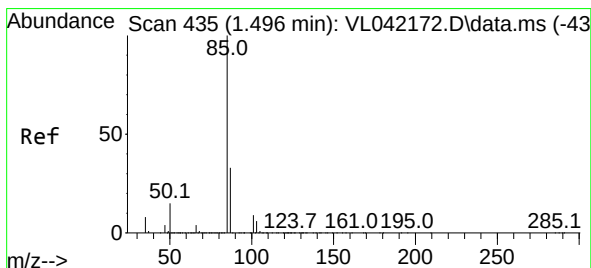
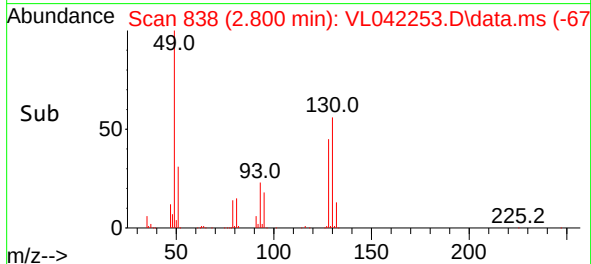
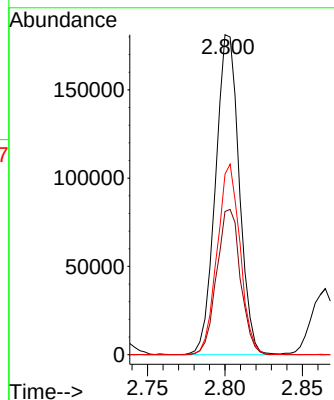
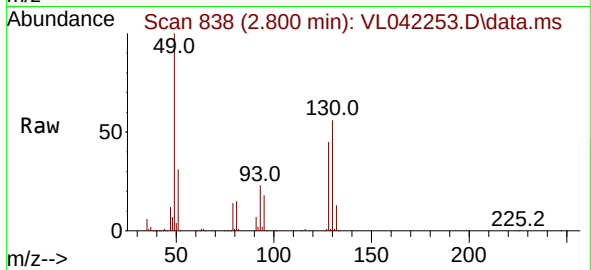
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Bromochloromethane
Concen: 10.000 ppbv
RT: 2.800 min Scan# 81
Delta R.T. 0.016 min
Lab File: VL042253.D
Acq: 08 Apr 2025 08:39

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 49 Resp: 192748
Ion Ratio Lower Upper
49 100
128 45.7 22.9 68.5
130 57.6 28.8 86.4

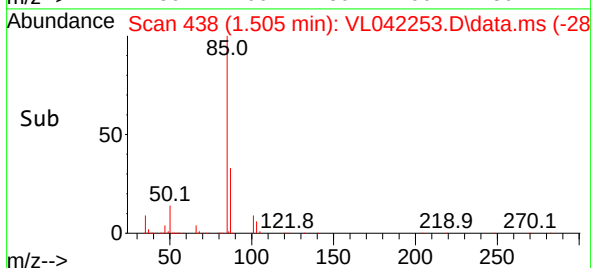
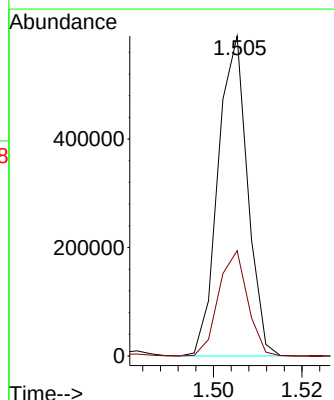
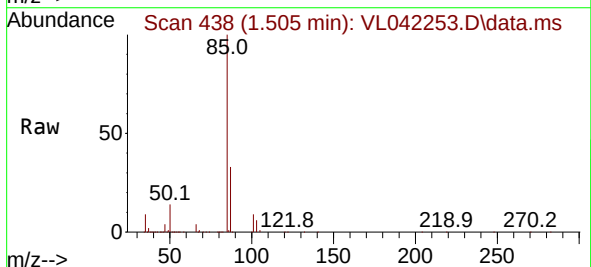
Manual Integrations
APPROVED

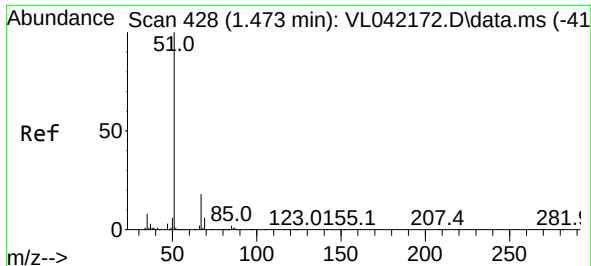
Reviewed By :Semsettin Yesilyurt 04/09/2025
Supervised By :Mahesh Dadoda 04/09/2025



#2
Dichlorodifluoromethane
Concen: 9.608 ppbv
RT: 1.505 min Scan# 438
Delta R.T. 0.010 min
Lab File: VL042253.D
Acq: 08 Apr 2025 08:39

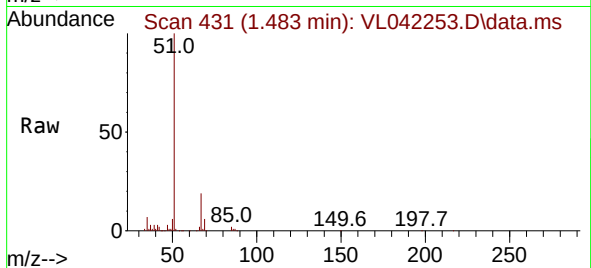
Tgt Ion: 85 Resp: 273431
Ion Ratio Lower Upper
85 100
87 32.9 26.1 39.1





#3
Chlorodifluoromethane
Concen: 9.985 ppbv
RT: 1.483 min Scan# 41
Delta R.T. 0.010 min
Lab File: VL042253.D
Acq: 08 Apr 2025 08:39

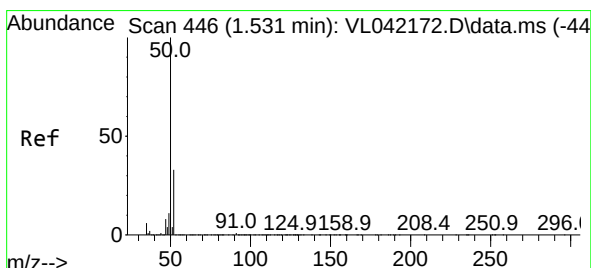
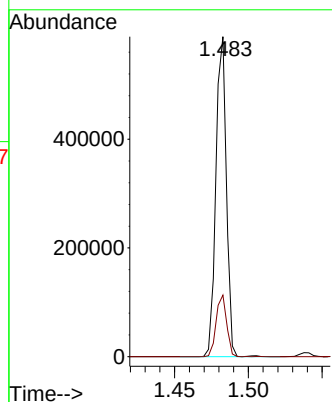
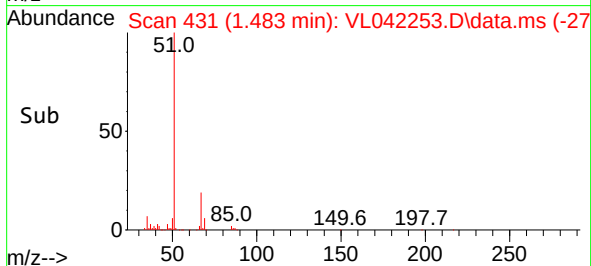
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010



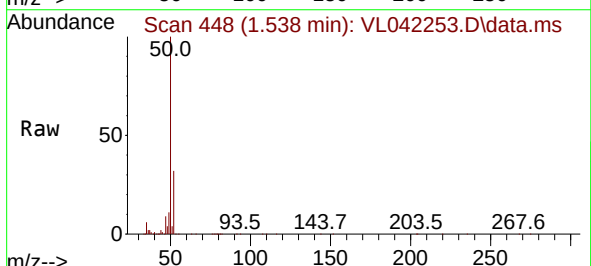
Tgt Ion: 51 Resp: 290289
Ion Ratio Lower Upper
51 100
67 19.4 15.0 22.6

Manual Integrations
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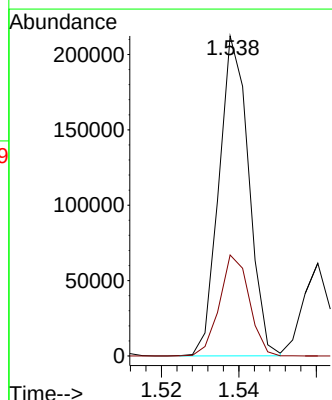
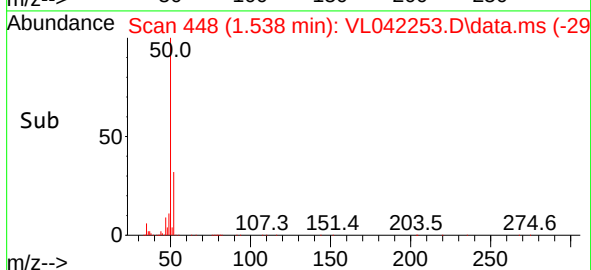
Reviewed By :Semsettin Yesilyurt 04/09/2025
Supervised By :Mahesh Dadoda 04/09/2025

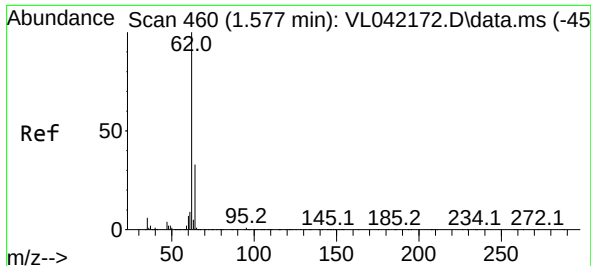


#4
Chloromethane
Concen: 9.729 ppbv
RT: 1.538 min Scan# 448
Delta R.T. 0.006 min
Lab File: VL042253.D
Acq: 08 Apr 2025 08:39



Tgt Ion: 50 Resp: 113157
Ion Ratio Lower Upper
50 100
52 31.6 26.1 39.1





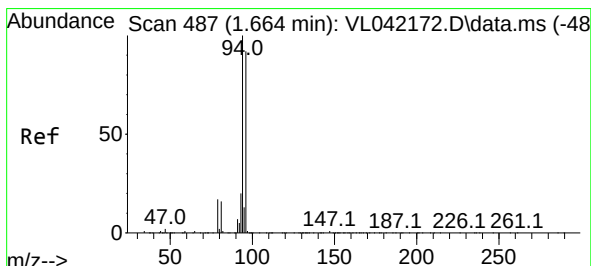
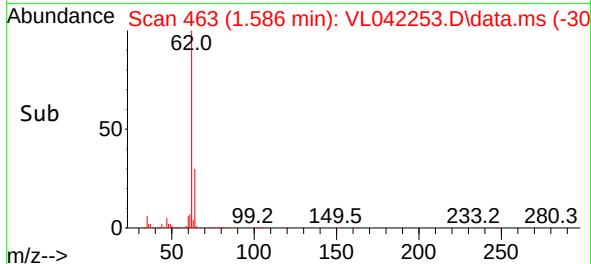
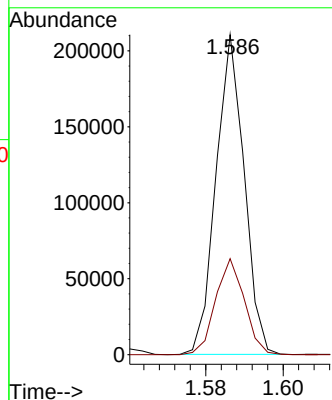
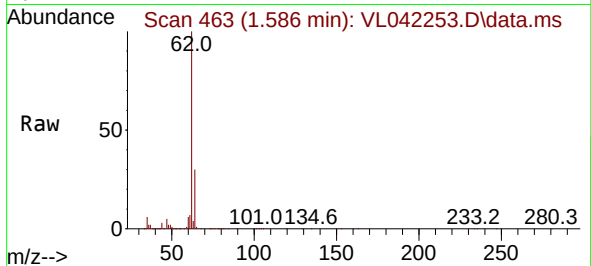
#5
 Vinyl Chloride
 Concen: 8.637 ppbv
 RT: 1.586 min Scan# 40
 Delta R.T. 0.010 min
 Lab File: VL042253.D
 Acq: 08 Apr 2025 08:39

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tgt Ion: 62 Resp: 106450
 Ion Ratio Lower Upper
 62 100
 64 30.0 26.6 40.0

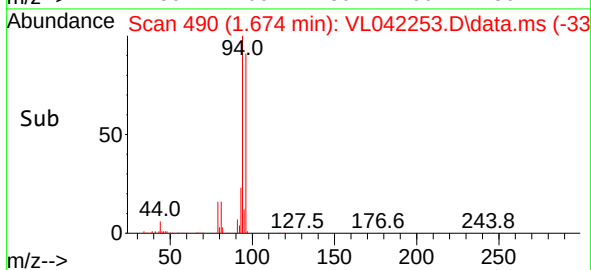
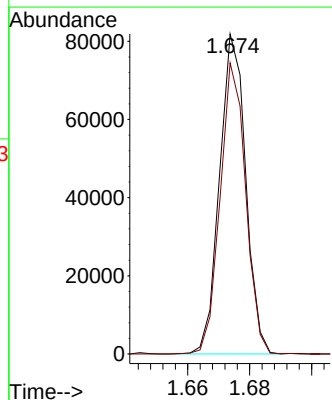
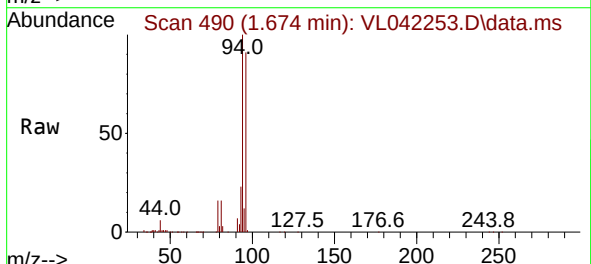
Manual Integrations
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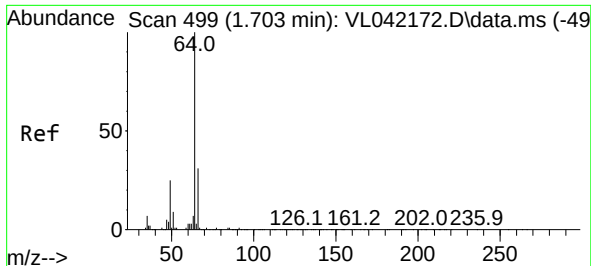
Reviewed By :Semsettin Yesilyurt 04/09/2025
 Supervised By :Mahesh Dadoda 04/09/2025



#6
 Bromomethane
 Concen: 9.087 ppbv
 RT: 1.674 min Scan# 490
 Delta R.T. 0.010 min
 Lab File: VL042253.D
 Acq: 08 Apr 2025 08:39

Tgt Ion: 94 Resp: 47897
 Ion Ratio Lower Upper
 94 100
 96 90.9 73.1 109.7





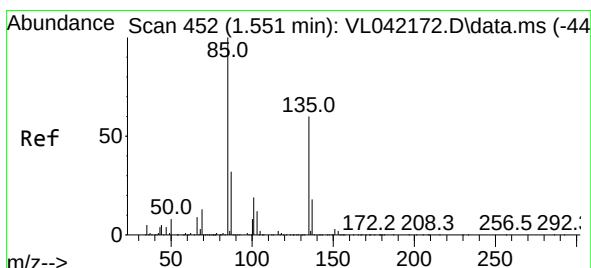
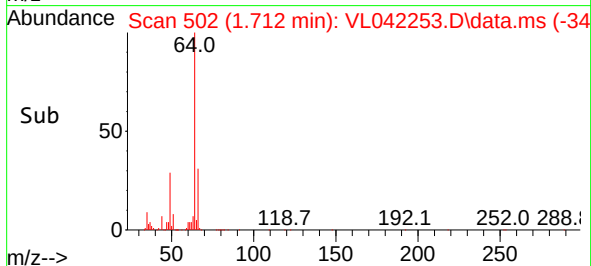
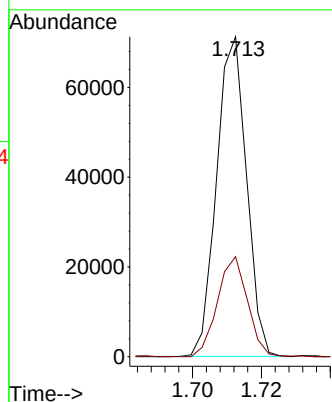
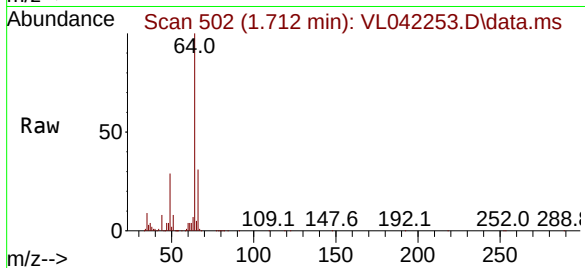
#7
Chloroethane
Concen: 9.215 ppbv
RT: 1.712 min Scan# 502
Delta R.T. 0.010 min
Lab File: VL042253.D
Acq: 08 Apr 2025 08:39

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 64 Resp: 4302
Ion Ratio Lower Upper
64 100
66 31.2 25.2 37.8

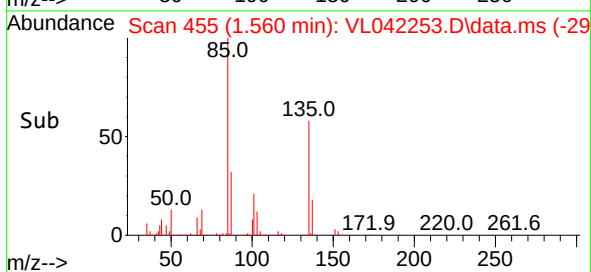
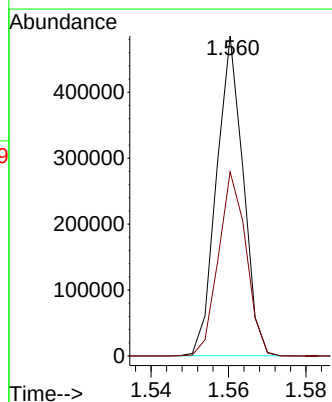
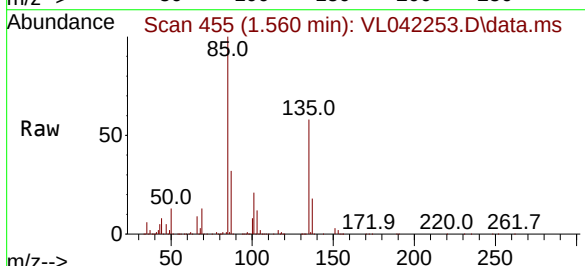
Manual Integrations
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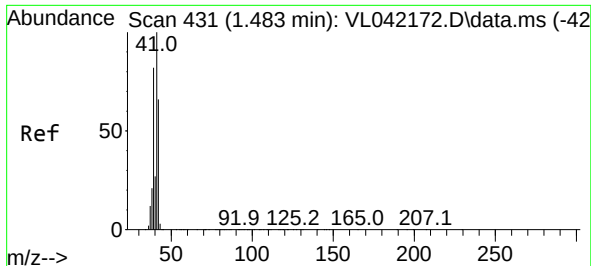
Reviewed By :Semsettin Yesilyurt 04/09/2025
Supervised By :Mahesh Dadoda 04/09/2025



#8
Dichlorotetrafluoroethane
Concen: 9.554 ppbv
RT: 1.560 min Scan# 455
Delta R.T. 0.010 min
Lab File: VL042253.D
Acq: 08 Apr 2025 08:39

Tgt Ion: 85 Resp: 231550
Ion Ratio Lower Upper
85 100
135 60.1 52.4 78.6





#9

Propene

Concen: 8.104 ppbv

RT: 1.489 min Scan# 41

Delta R.T. 0.006 min

Lab File: VL042253.D

Acq: 08 Apr 2025 08:39

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tgt Ion: 41 Resp: 10799

Ion Ratio Lower Upper

41 100

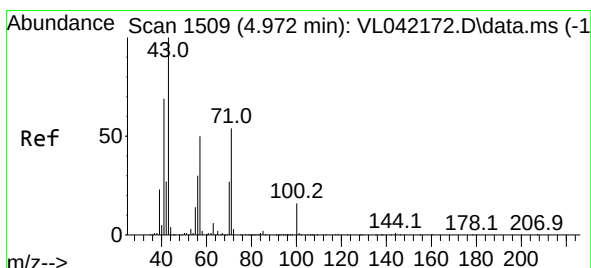
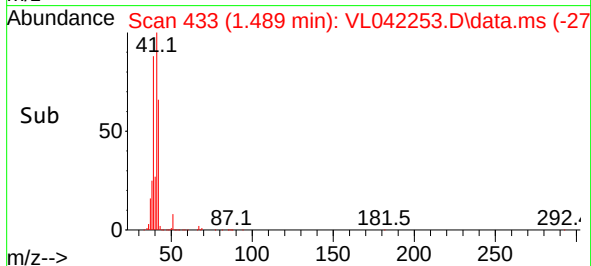
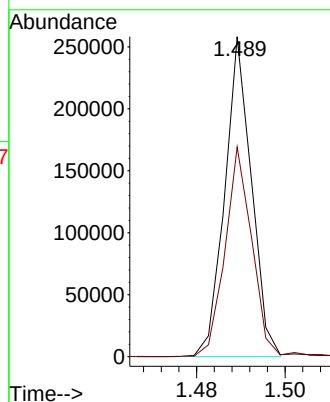
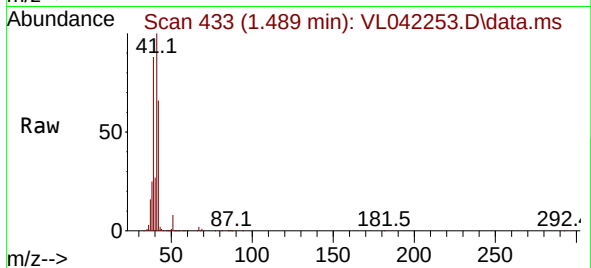
42 67.3 55.4 83.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/09/2025

Supervised By :Mahesh Dadoda 04/09/2025



#10

Heptane

Concen: 9.441 ppbv

RT: 5.011 min Scan# 1521

Delta R.T. 0.039 min

Lab File: VL042253.D

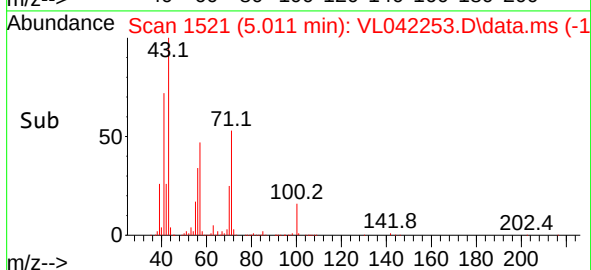
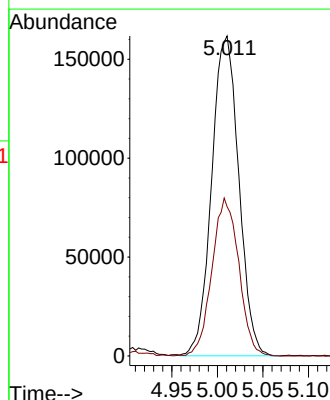
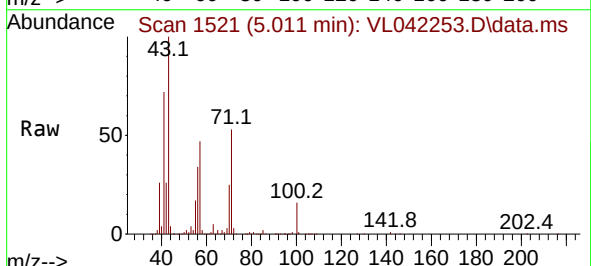
Acq: 08 Apr 2025 08:39

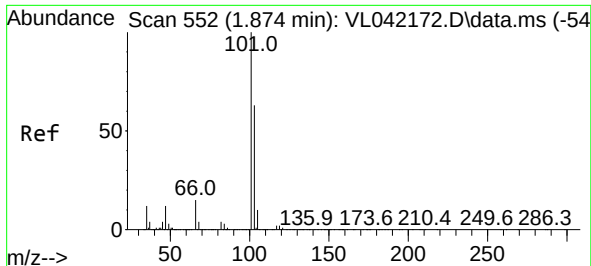
Tgt Ion: 43 Resp: 334651

Ion Ratio Lower Upper

43 100

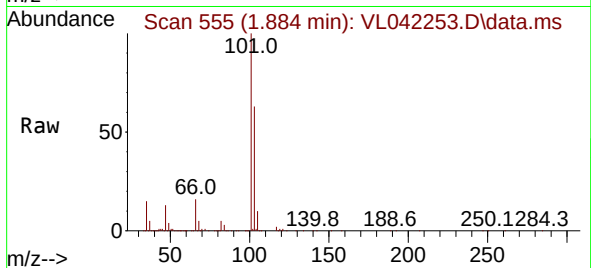
57 48.8 39.4 59.2





#11
 Trichlorofluoromethane
 Concen: 9.518 ppbv
 RT: 1.884 min Scan# 511
 Delta R.T. 0.010 min
 Lab File: VL042253.D
 Acq: 08 Apr 2025 08:39

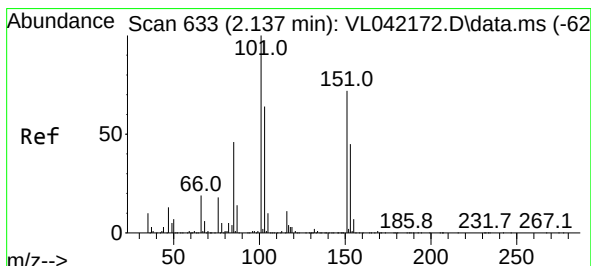
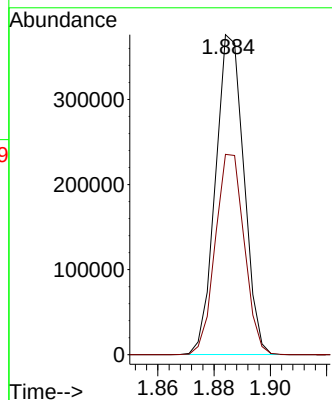
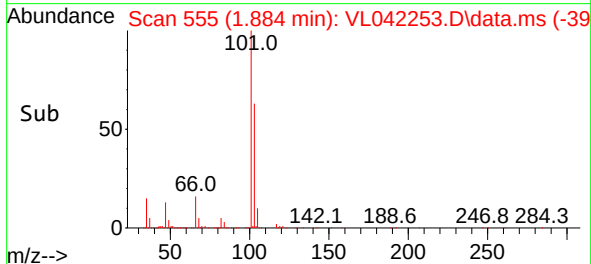
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010



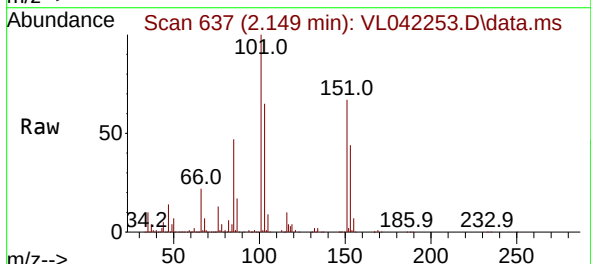
Tgt Ion:101 Resp: 263560
 Ion Ratio Lower Upper
 101 100
 103 62.6 50.2 75.2

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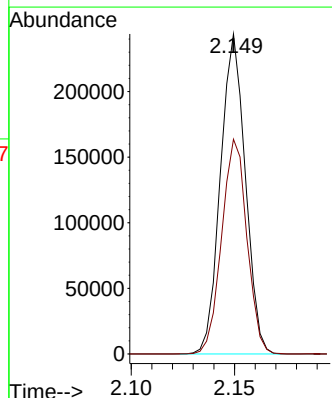
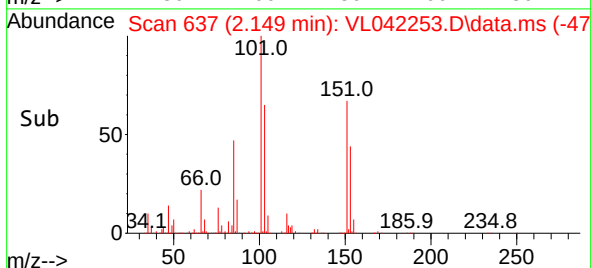
Reviewed By :Semsettin Yesilyurt 04/09/2025
 Supervised By :Mahesh Dadoda 04/09/2025

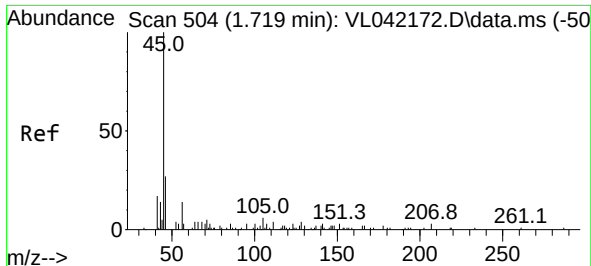


#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 8.967 ppbv
 RT: 2.149 min Scan# 637
 Delta R.T. 0.013 min
 Lab File: VL042253.D
 Acq: 08 Apr 2025 08:39



Tgt Ion:101 Resp: 204093
 Ion Ratio Lower Upper
 101 100
 151 68.2 57.1 85.7





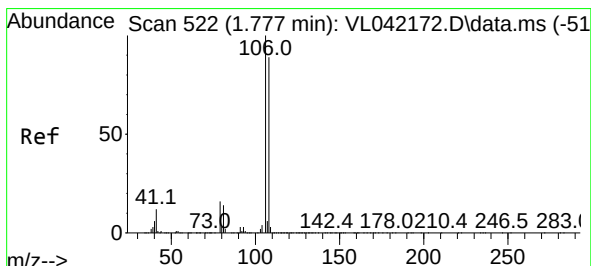
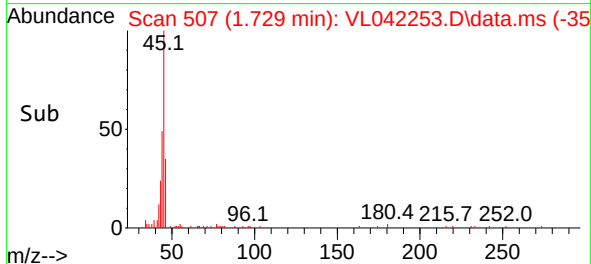
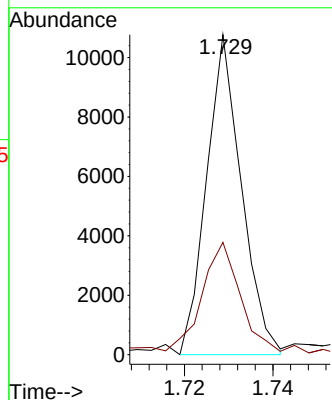
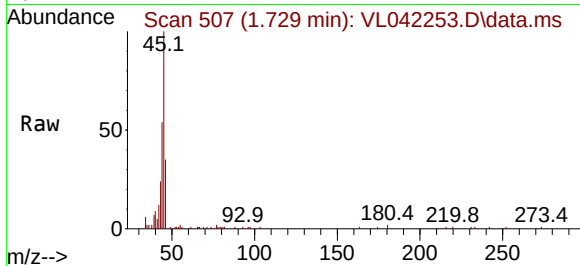
#13
Ethanol
Concen: 4.686 ppbv
RT: 1.729 min Scan# 504
Delta R.T. 0.010 min
Lab File: VL042253.D
Acq: 08 Apr 2025 08:39

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 45 Resp: 590
Ion Ratio Lower Upper
45 100
46 45.1 20.2 80.8

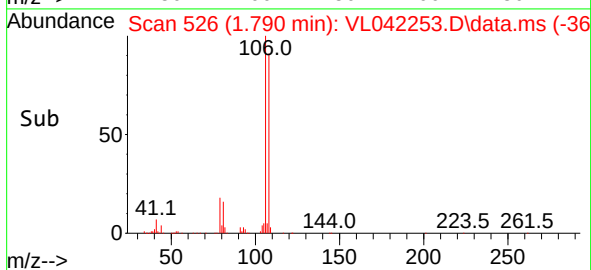
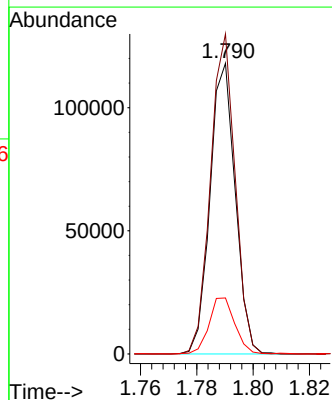
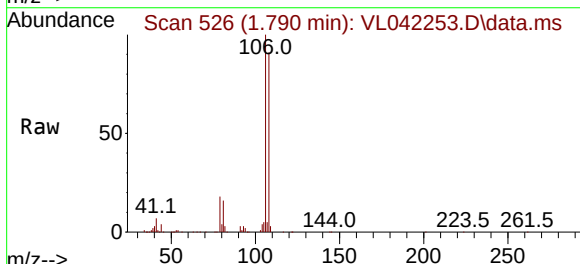
Manual Integrations
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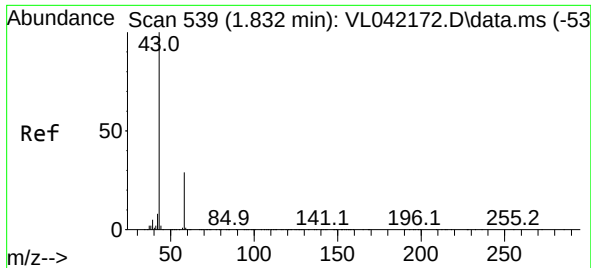
Reviewed By :Semsettin Yesilyurt 04/09/2025
Supervised By :Mahesh Dadoda 04/09/2025



#14
Bromoethene
Concen: 8.438 ppbv
RT: 1.790 min Scan# 526
Delta R.T. 0.013 min
Lab File: VL042253.D
Acq: 08 Apr 2025 08:39

Tgt Ion:108 Resp: 73578
Ion Ratio Lower Upper
108 100
106 107.3 86.8 130.2
79 20.3 15.0 22.6





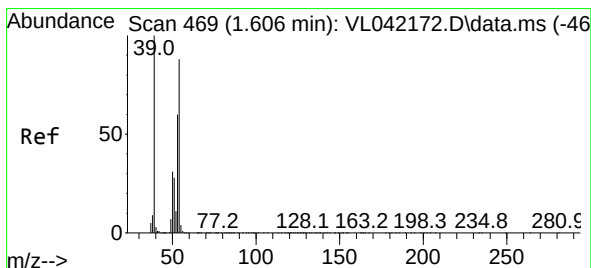
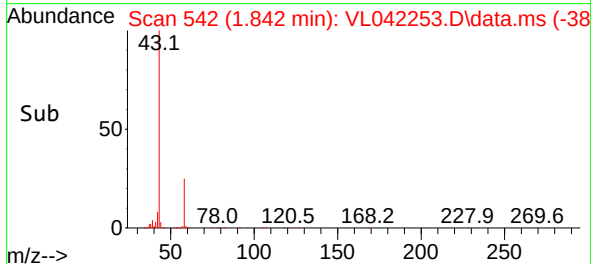
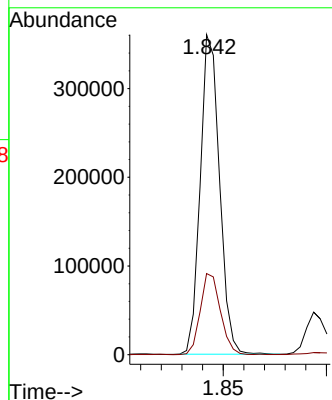
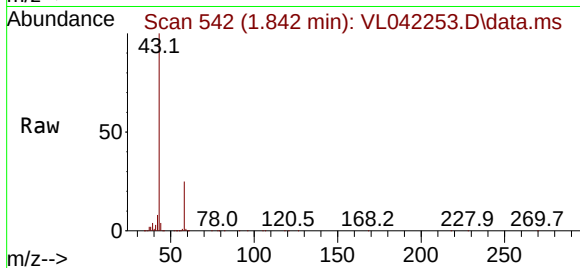
#15
Acetone
Concen: 8.677 ppbv
RT: 1.842 min Scan# 54
Delta R.T. 0.010 min
Lab File: VL042253.D
Acq: 08 Apr 2025 08:39

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 43 Resp: 23389
Ion Ratio Lower Upper
43 100
58 26.7 23.2 34.8

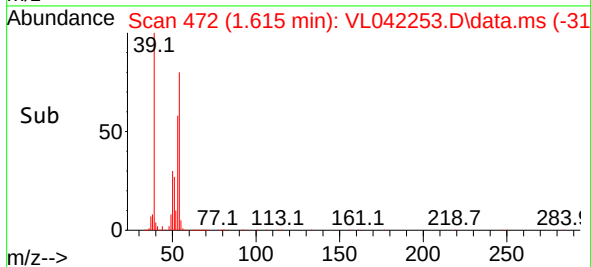
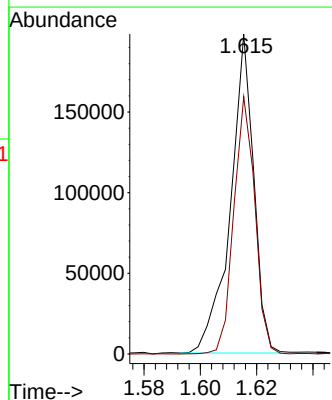
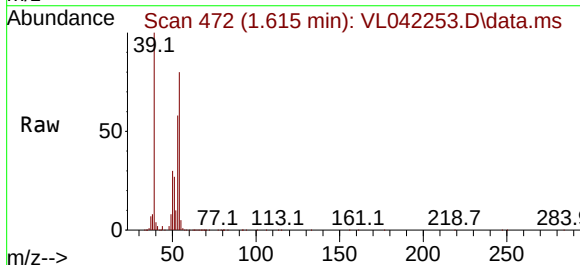
Manual Integrations
APPROVED

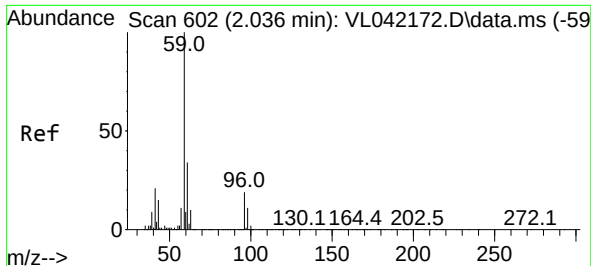
Reviewed By :Semsettin Yesilyurt 04/09/2025
Supervised By :Mahesh Dadoda 04/09/2025



#16
1,3-Butadiene
Concen: 8.637 ppbv
RT: 1.615 min Scan# 472
Delta R.T. 0.010 min
Lab File: VL042253.D
Acq: 08 Apr 2025 08:39

Tgt Ion: 39 Resp: 113699
Ion Ratio Lower Upper
39 100
54 73.1 60.7 91.1





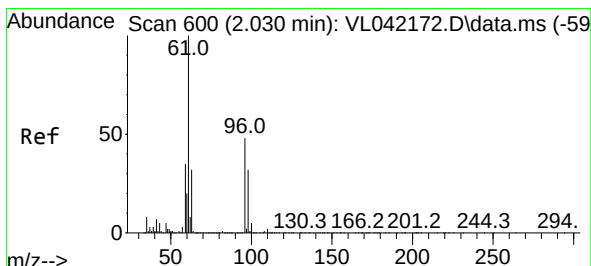
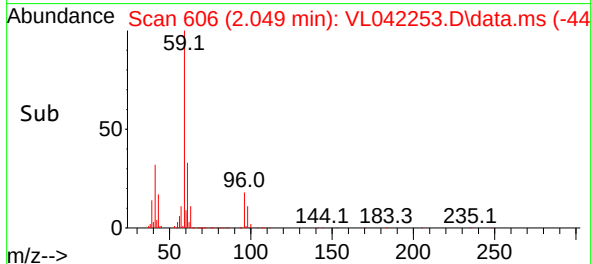
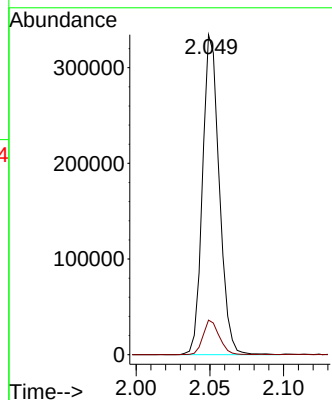
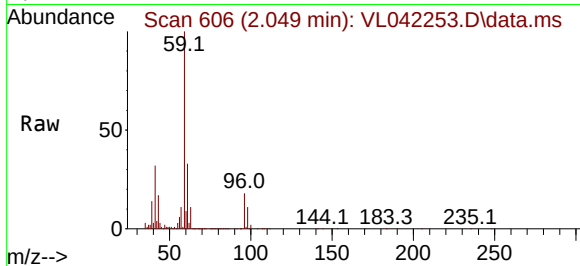
#17
tert-Butyl alcohol
Concen: 7.865 ppbv
RT: 2.049 min Scan# 606
Delta R.T. 0.013 min
Lab File: VL042253.D
Acq: 08 Apr 2025 08:39

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 59 Resp: 26406
Ion Ratio Lower Upper
59 100
57 10.5 8.9 13.3

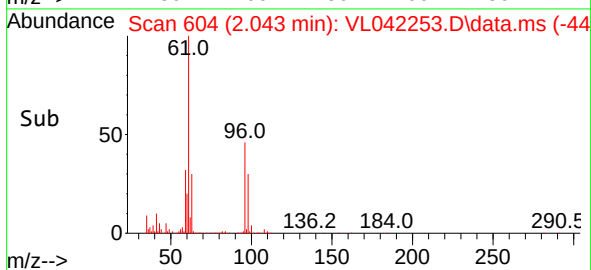
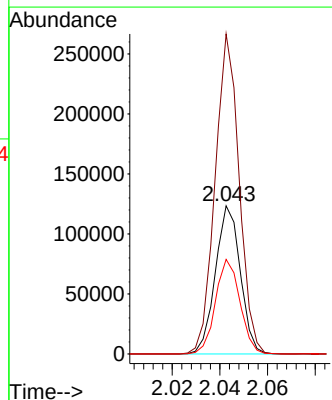
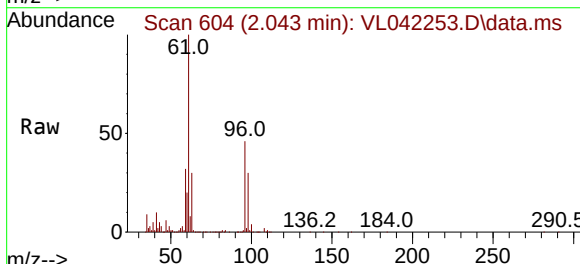
Manual Integrations
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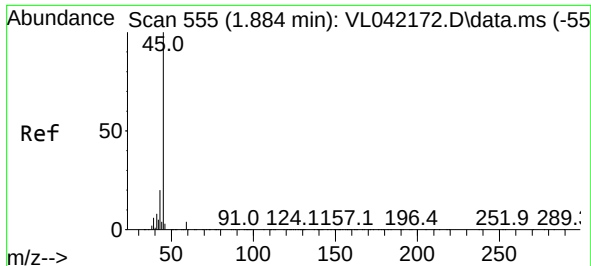
Reviewed By :Semsettin Yesilyurt 04/09/2025
Supervised By :Mahesh Dadoda 04/09/2025



#18
1,1-Dichloroethene
Concen: 8.414 ppbv
RT: 2.043 min Scan# 604
Delta R.T. 0.013 min
Lab File: VL042253.D
Acq: 08 Apr 2025 08:39

Tgt Ion: 96 Resp: 89526
Ion Ratio Lower Upper
96 100
61 216.0 167.6 251.4
98 63.8 53.5 80.3





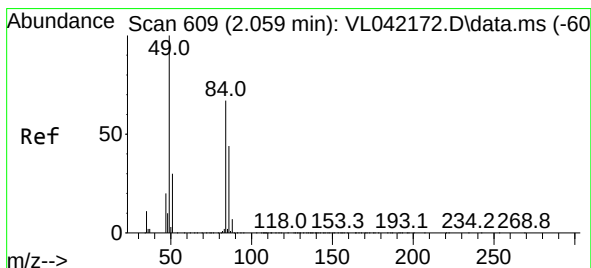
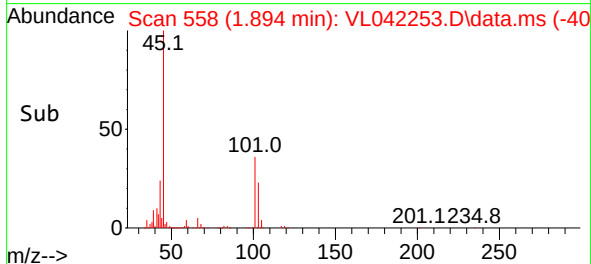
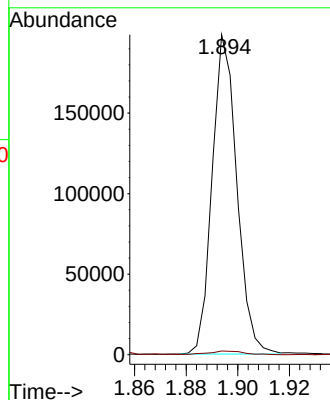
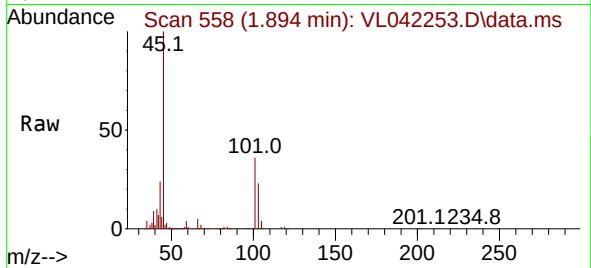
#19
Isopropyl Alcohol
Concen: 8.653 ppbv
RT: 1.894 min Scan# 510
Delta R.T. 0.010 min
Lab File: VL042253.D
Acq: 08 Apr 2025 08:39

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 45 Resp: 131600
Ion Ratio Lower Upper
45 100
58 47.5 36.9 55.3

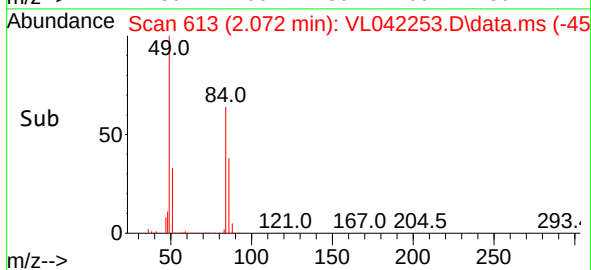
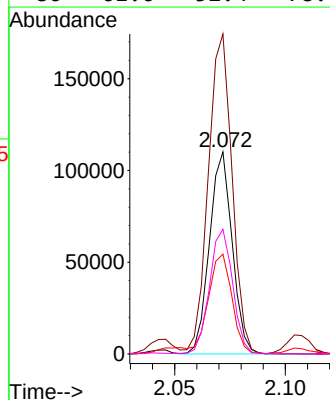
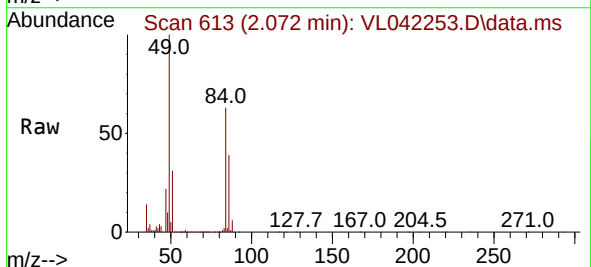
Manual Integrations
APPROVED

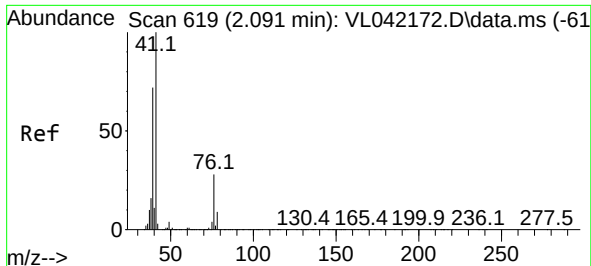
Reviewed By :Semsettin Yesilyurt 04/09/2025
Supervised By :Mahesh Dadoda 04/09/2025



#20
Methylene Chloride
Concen: 7.825 ppbv
RT: 2.072 min Scan# 613
Delta R.T. 0.013 min
Lab File: VL042253.D
Acq: 08 Apr 2025 08:39

Tgt Ion: 84 Resp: 78560
Ion Ratio Lower Upper
84 100
49 156.4 120.2 180.4
51 48.5 37.4 56.0
86 61.6 52.4 78.6





#21
 Allyl Chloride
 Concen: 8.590 ppbv
 RT: 2.107 min Scan# 61
 Delta R.T. 0.016 min
 Lab File: VL042253.D
 Acq: 08 Apr 2025 08:39

Instrument :

MSVOA_L

ClientSampleId :

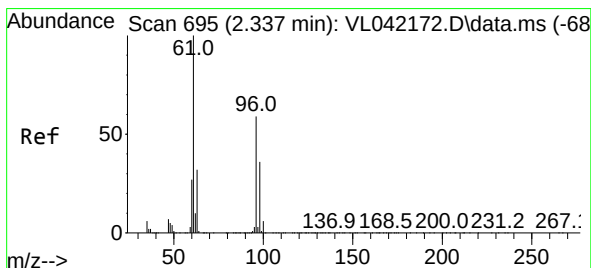
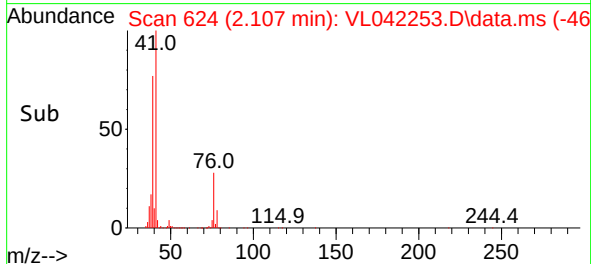
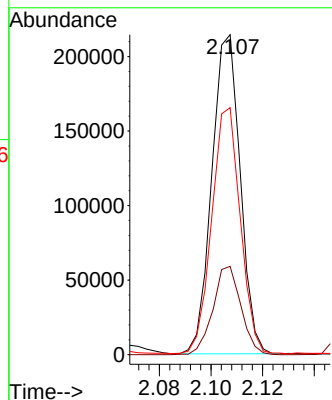
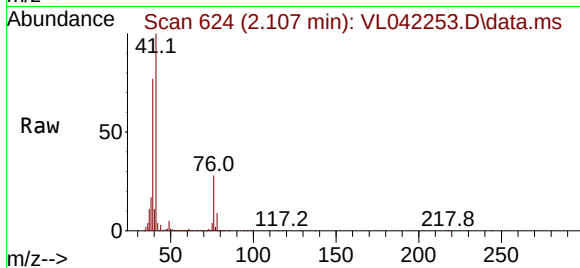
VSTDCCC010

Tgt Ion: 41 Resp: 16330
 Ion Ratio Lower Upper
 41 100
 76 27.3 24.1 36.1
 39 77.5 61.1 91.7

Manual Integrations

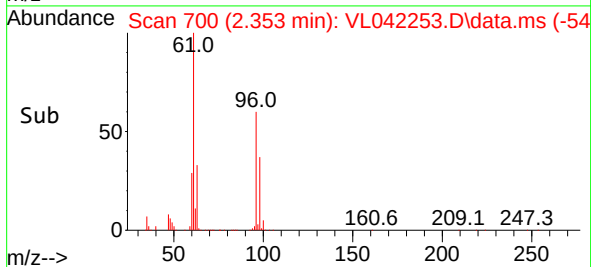
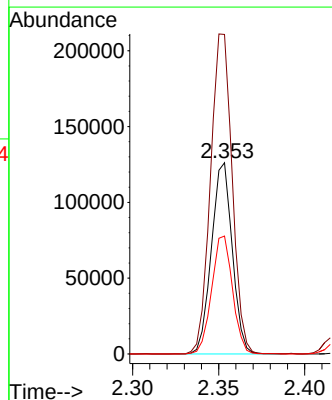
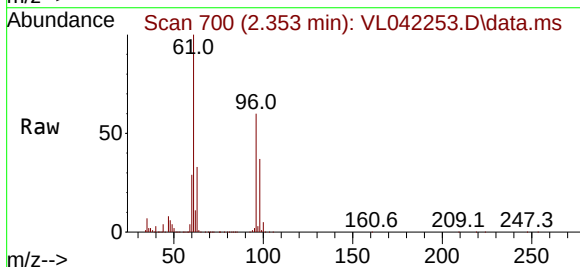
APPROVED

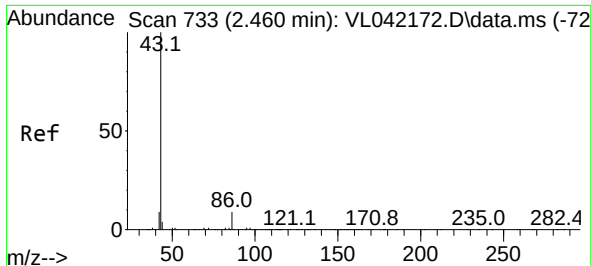
Reviewed By :Semsettin Yesilyurt 04/09/2025
 Supervised By :Mahesh Dadoda 04/09/2025



#22
 trans-1,2-Dichloroethene
 Concen: 8.643 ppbv
 RT: 2.353 min Scan# 700
 Delta R.T. 0.016 min
 Lab File: VL042253.D
 Acq: 08 Apr 2025 08:39

Tgt Ion: 96 Resp: 106297
 Ion Ratio Lower Upper
 96 100
 61 167.0 136.6 204.8
 98 61.7 49.4 74.2





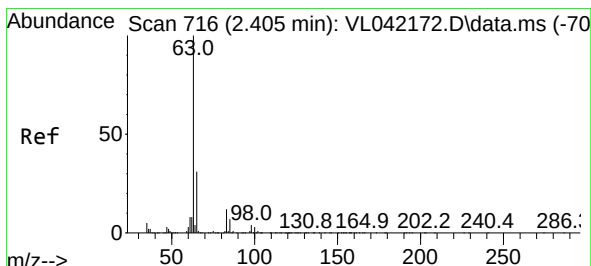
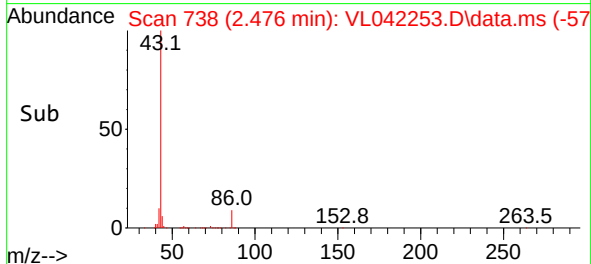
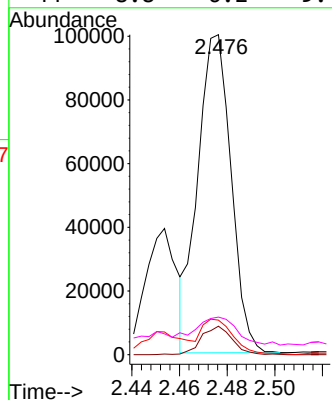
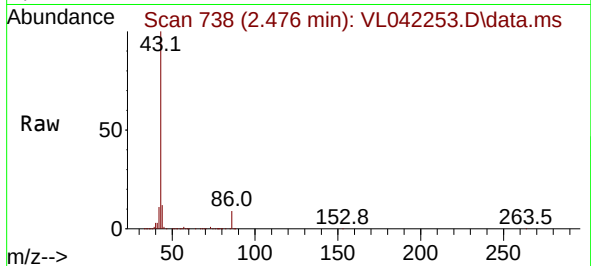
#23
 Vinyl Acetate
 Concen: 8.313 ppbv
 RT: 2.476 min Scan# 71
 Delta R.T. 0.016 min
 Lab File: VL042253.D
 Acq: 08 Apr 2025 08:39

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tgt Ion: 43 Resp: 96990
 Ion Ratio Lower Upper
 43 100
 86 8.9 5.5 8.3
 42 10.5 8.6 13.0
 44 8.8 6.2 9.4

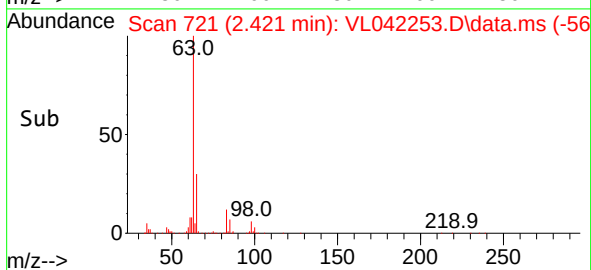
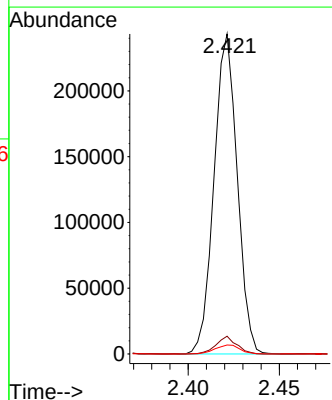
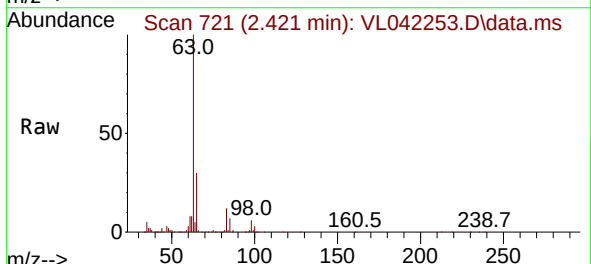
Manual Integrations
 APPROVED

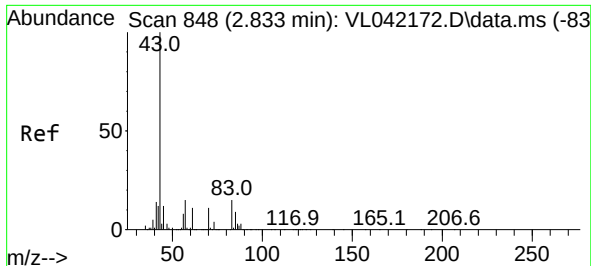
Reviewed By :Semsettin Yesilyurt 04/09/2025
 Supervised By :Mahesh Dadoda 04/09/2025



#24
 1,1-Dichloroethane
 Concen: 9.422 ppbv
 RT: 2.421 min Scan# 721
 Delta R.T. 0.016 min
 Lab File: VL042253.D
 Acq: 08 Apr 2025 08:39

Tgt Ion: 63 Resp: 214800
 Ion Ratio Lower Upper
 63 100
 98 5.5 2.3 6.8
 100 2.8 1.6 4.7





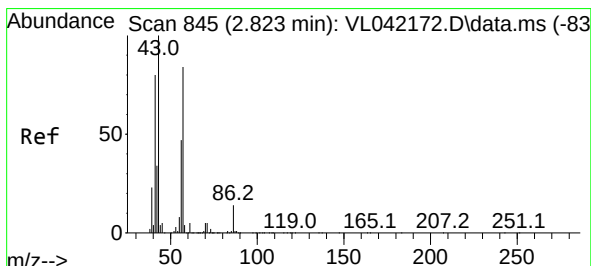
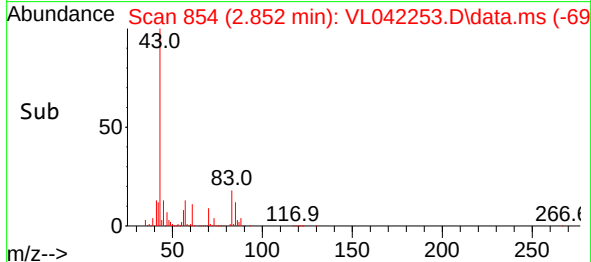
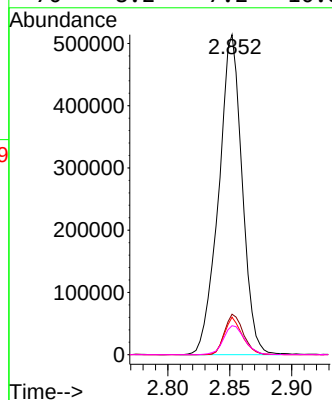
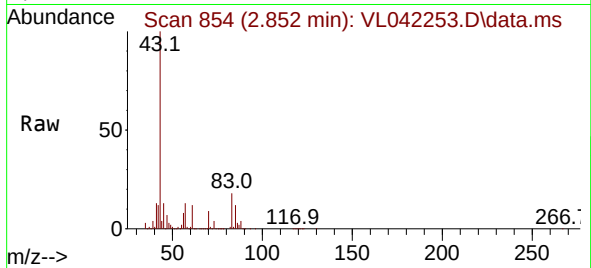
#25
Ethyl Acetate
Concen: 9.704 ppbv
RT: 2.852 min Scan# 81
Delta R.T. 0.019 min
Lab File: VL042253.D
Acq: 08 Apr 2025 08:39

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 43 Resp: 678925
Ion Ratio Lower Upper
43 100
45 10.3 8.2 12.2
61 9.0 7.3 10.9
70 8.2 7.2 10.8

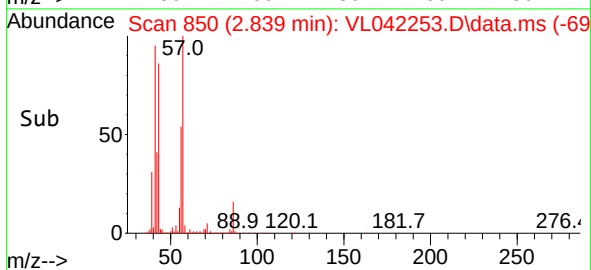
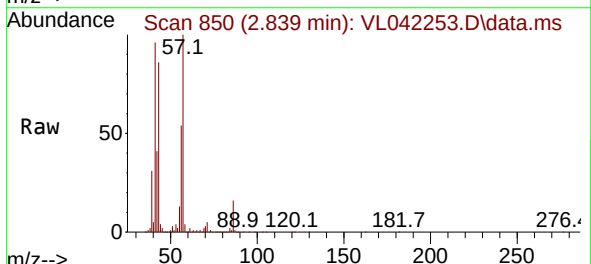
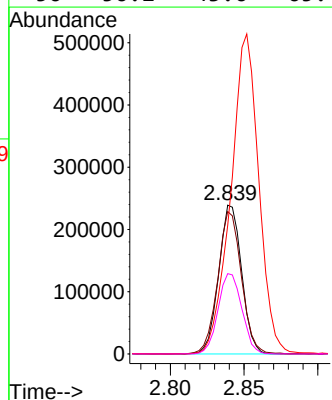
Manual Integrations
APPROVED

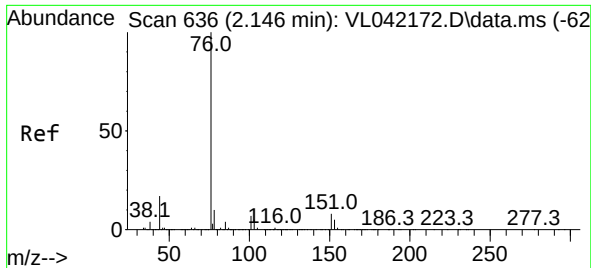
Reviewed By :Semsettin Yesilyurt 04/09/2025
Supervised By :Mahesh Dadoda 04/09/2025



#26
Hexane
Concen: 9.529 ppbv
RT: 2.839 min Scan# 850
Delta R.T. 0.016 min
Lab File: VL042253.D
Acq: 08 Apr 2025 08:39

Tgt Ion: 57 Resp: 257513
Ion Ratio Lower Upper
57 100
41 99.7 76.6 114.8
43 264.2 207.8 311.8
56 56.2 43.6 65.4





#27

Carbon Disulfide

Concen: 8.762 ppbv

RT: 2.159 min Scan# 640

Delta R.T. 0.013 min

Lab File: VL042253.D

Acq: 08 Apr 2025 08:39

Instrument :

MSVOA_L

ClientSampleId :

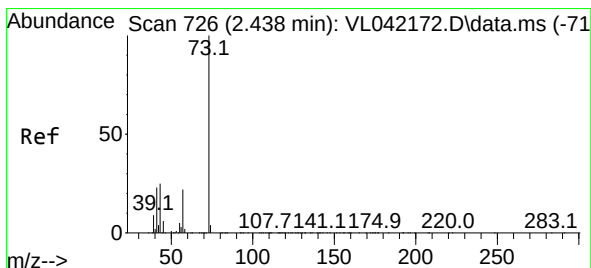
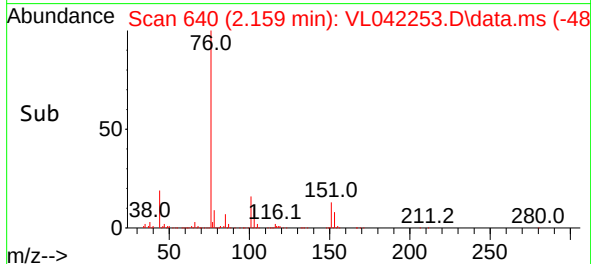
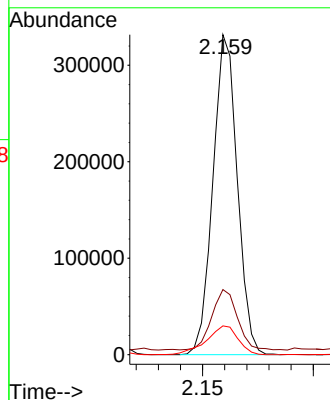
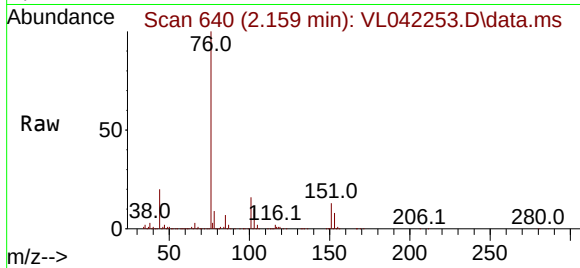
VSTDCCC010

Tgt Ion: 76 Resp: 253909
 Ion Ratio Lower Upper
 76 100
 44 20.0 14.7 22.1
 78 11.7 9.3 13.9

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/09/2025
 Supervised By :Mahesh Dadoda 04/09/2025



#28

Methyl tert-Butyl Ether

Concen: 8.078 ppbv

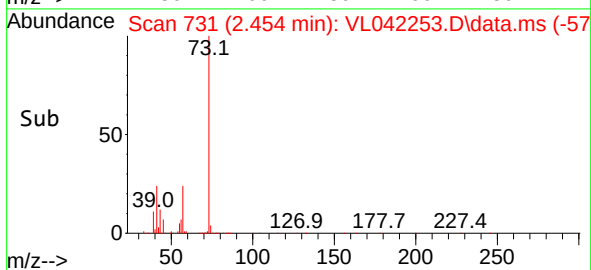
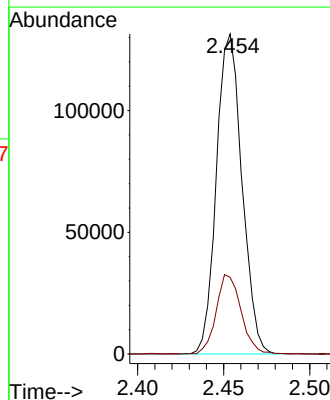
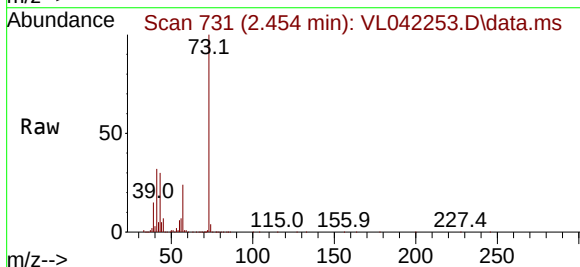
RT: 2.454 min Scan# 731

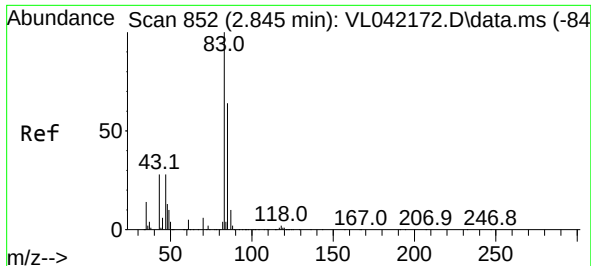
Delta R.T. 0.016 min

Lab File: VL042253.D

Acq: 08 Apr 2025 08:39

Tgt Ion: 73 Resp: 135921
 Ion Ratio Lower Upper
 73 100
 57 24.1 20.5 30.7





#29

Chloroform

Concen: 10.306 ppbv

RT: 2.861 min Scan# 81

Delta R.T. 0.016 min

Lab File: VL042253.D

Acq: 08 Apr 2025 08:39

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tgt Ion: 83 Resp: 40759

Ion Ratio Lower Upper

83 100

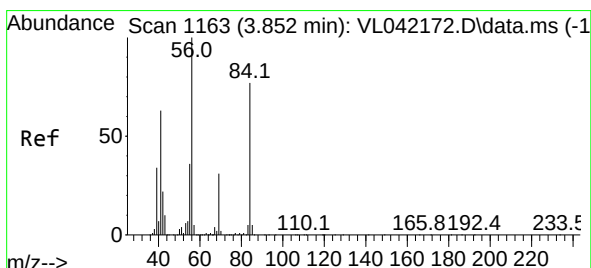
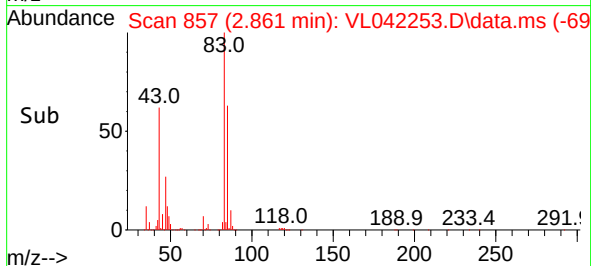
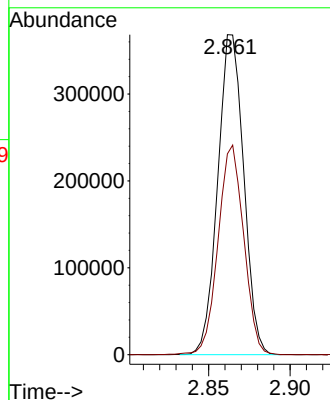
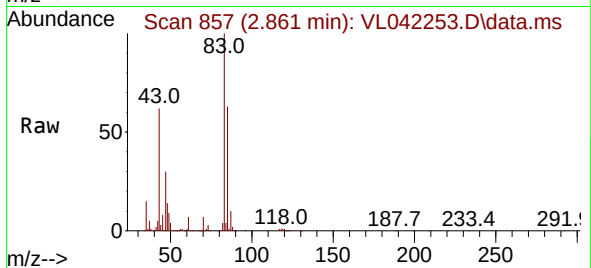
85 62.7 51.4 77.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/09/2025

Supervised By :Mahesh Dadoda 04/09/2025



#30

Cyclohexane

Concen: 8.831 ppbv

RT: 3.878 min Scan# 1171

Delta R.T. 0.026 min

Lab File: VL042253.D

Acq: 08 Apr 2025 08:39

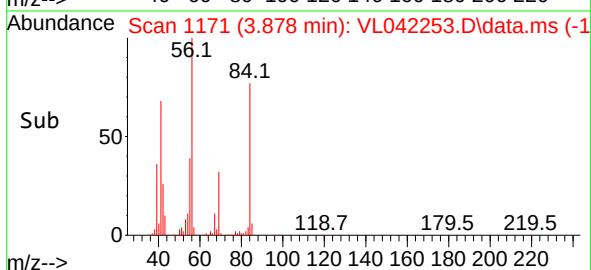
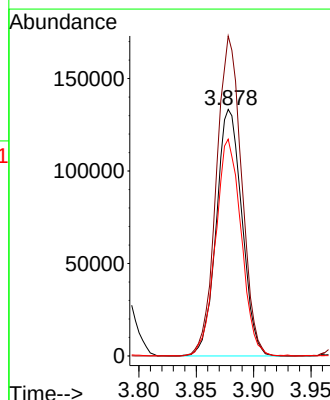
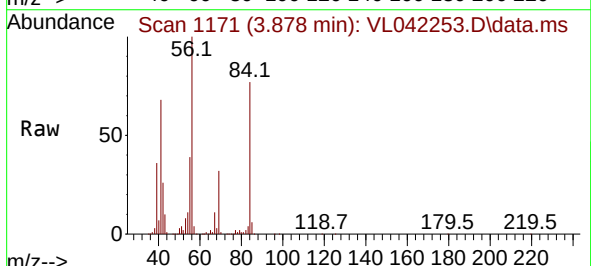
Tgt Ion: 84 Resp: 207216

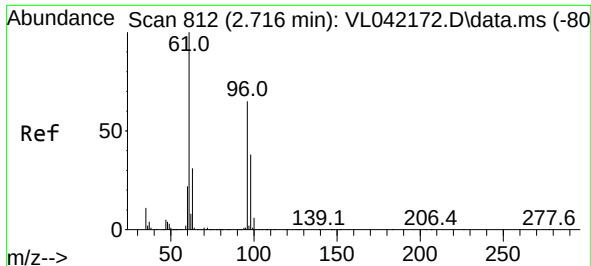
Ion Ratio Lower Upper

84 100

56 127.8 102.8 154.2

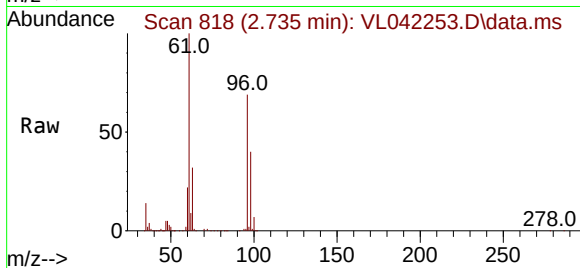
41 88.0 66.5 99.7





#31
 cis-1,2-Dichloroethene
 Concen: 9.098 ppbv
 RT: 2.735 min Scan# 812
 Delta R.T. 0.019 min
 Lab File: VL042253.D
 Acq: 08 Apr 2025 08:39

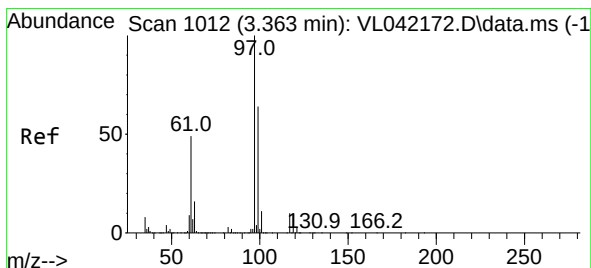
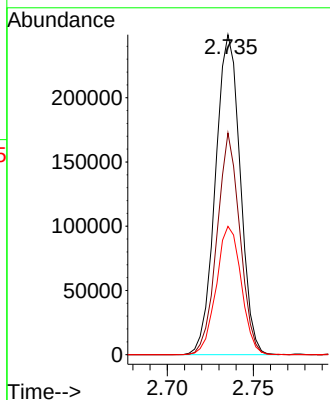
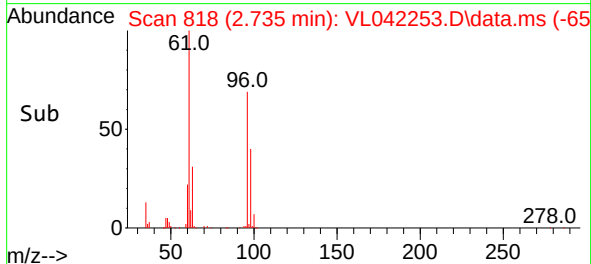
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010



Tgt Ion: 61 Resp: 24959
 Ion Ratio Lower Upper
 61 100
 96 69.3 51.8 77.8
 98 40.1 30.6 46.0

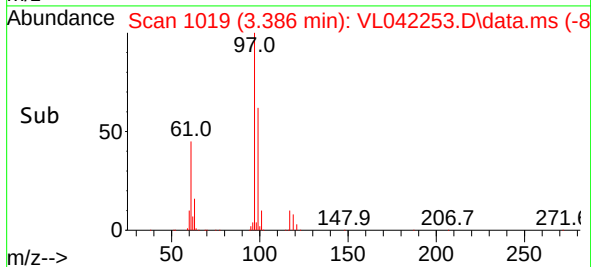
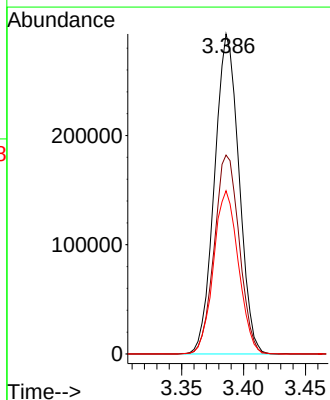
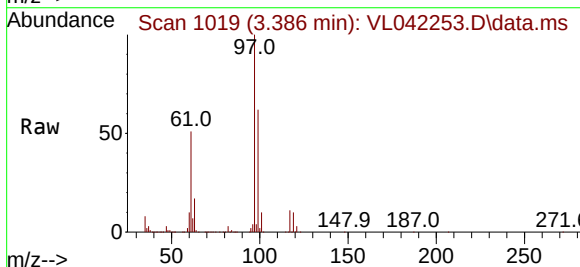
Manual Integrations
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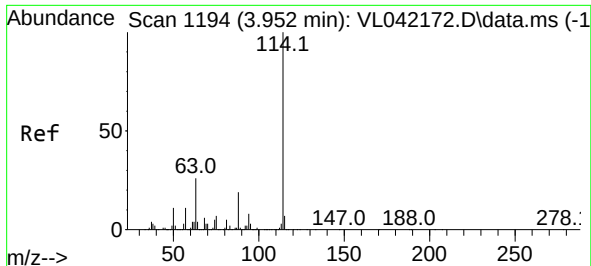
Reviewed By :Semsettin Yesilyurt 04/09/2025
 Supervised By :Mahesh Dadoda 04/09/2025



#32
 1,1,1-Trichloroethane
 Concen: 8.915 ppbv
 RT: 3.386 min Scan# 1019
 Delta R.T. 0.023 min
 Lab File: VL042253.D
 Acq: 08 Apr 2025 08:39

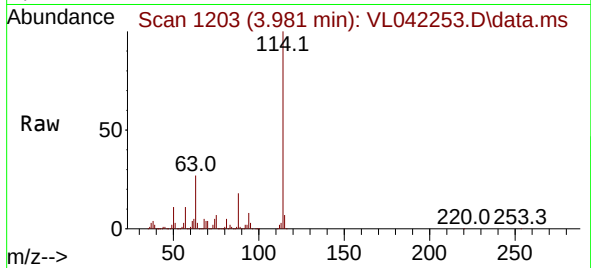
Tgt Ion: 97 Resp: 403665
 Ion Ratio Lower Upper
 97 100
 99 63.6 51.5 77.3
 61 51.9 38.7 58.1





#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.981 min Scan# 1194
Delta R.T. 0.029 min
Lab File: VL042253.D
Acq: 08 Apr 2025 08:39

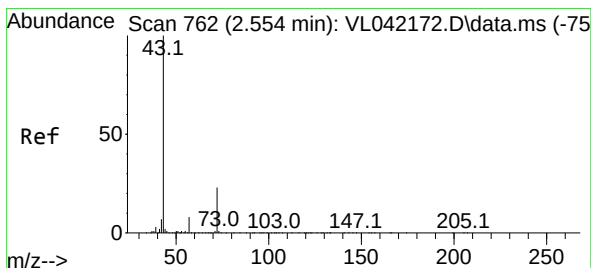
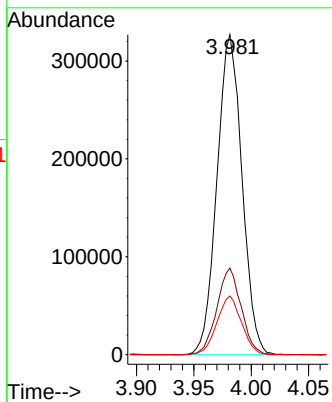
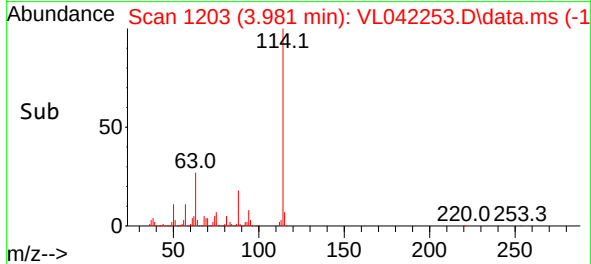
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010



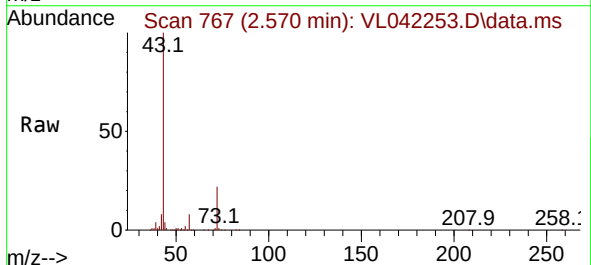
Tgt Ion:114 Resp: 49627
Ion Ratio Lower Upper
114 100
63 26.3 20.7 31.1
88 17.9 15.0 22.4

Manual Integrations
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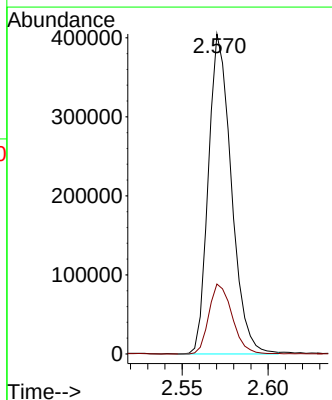
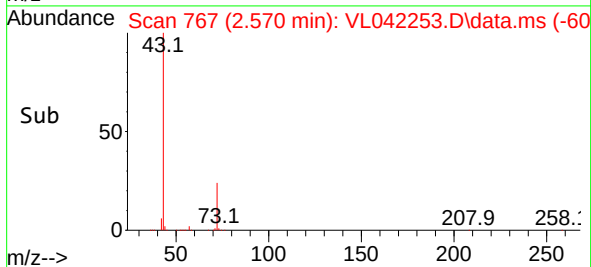
Reviewed By :Semsettin Yesilyurt 04/09/2025
Supervised By :Mahesh Dadoda 04/09/2025

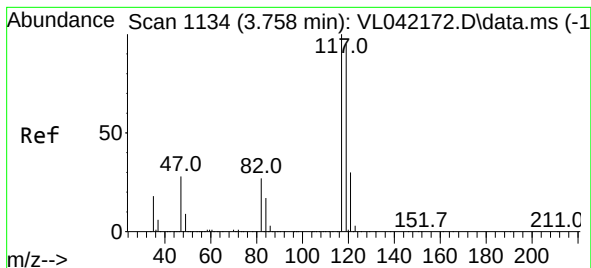


#34
2-Butanone
Concen: 10.443 ppbv
RT: 2.570 min Scan# 767
Delta R.T. 0.016 min
Lab File: VL042253.D
Acq: 08 Apr 2025 08:39



Tgt Ion: 43 Resp: 375791
Ion Ratio Lower Upper
43 100
72 22.2 18.2 27.2





#35

Carbon Tetrachloride

Concen: 10.934 ppbv

RT: 3.784 min Scan# 1134

Delta R.T. 0.026 min

Lab File: VL042253.D

Acq: 08 Apr 2025 08:39

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tgt Ion:117 Resp: 42386

Ion Ratio Lower Upper

117 100

119 95.9 76.2 114.2

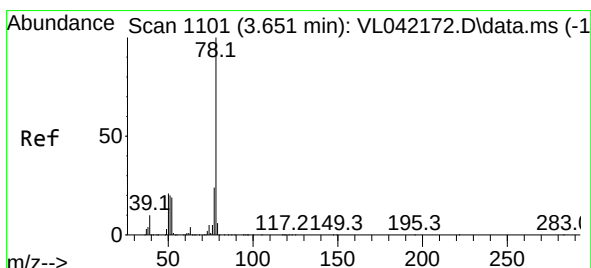
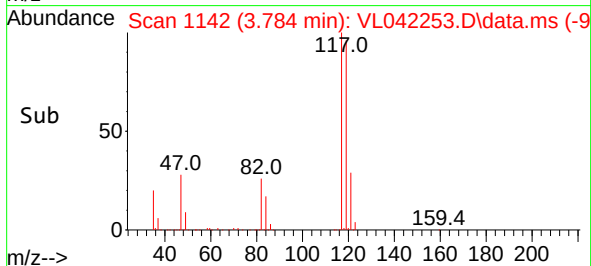
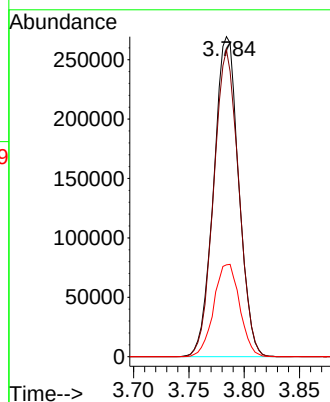
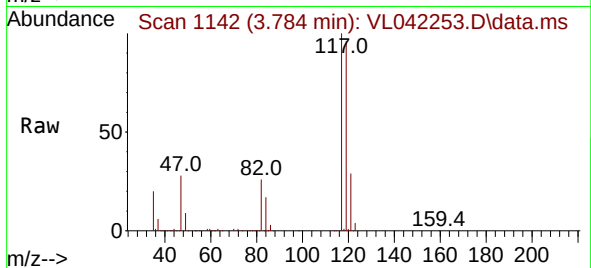
121 28.7 24.2 36.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/09/2025

Supervised By :Mahesh Dadoda 04/09/2025



#36

Benzene

Concen: 10.467 ppbv

RT: 3.677 min Scan# 1109

Delta R.T. 0.026 min

Lab File: VL042253.D

Acq: 08 Apr 2025 08:39

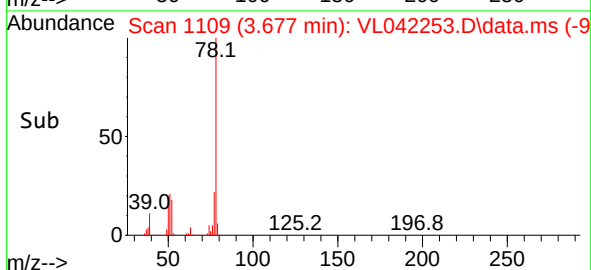
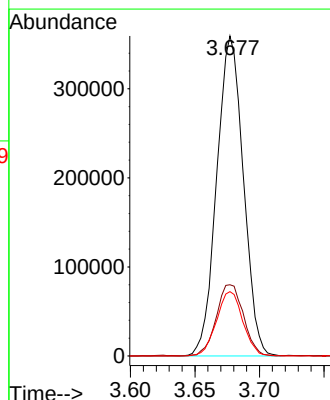
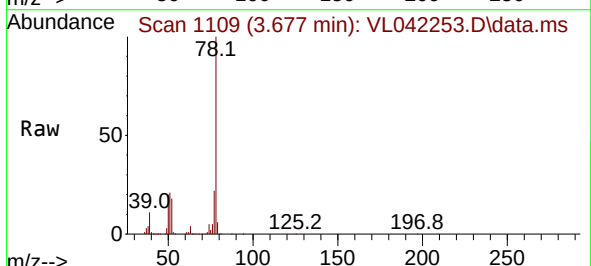
Tgt Ion: 78 Resp: 514967

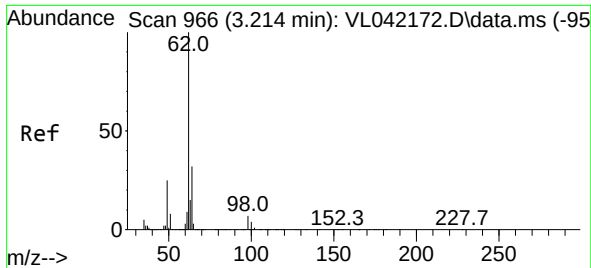
Ion Ratio Lower Upper

78 100

77 22.2 19.1 28.7

50 20.1 16.6 24.8





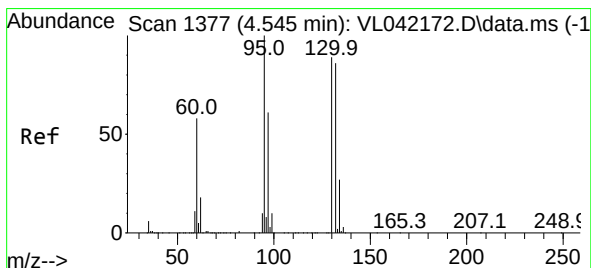
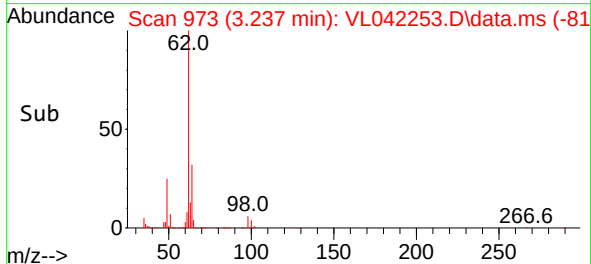
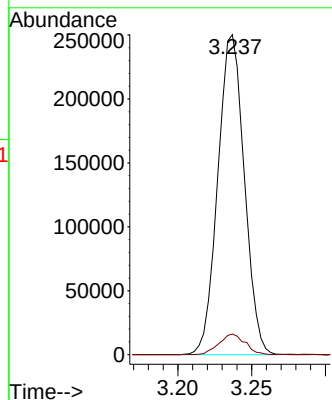
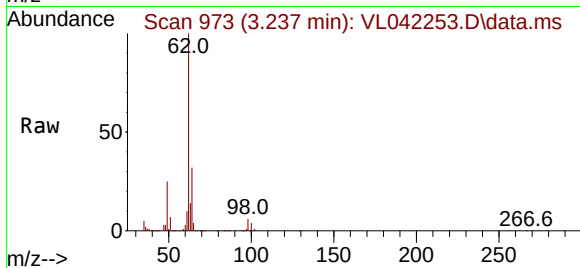
#37
1,2-Dichloroethane
Concen: 11.119 ppbv
RT: 3.237 min Scan# 91
Delta R.T. 0.023 min
Lab File: VL042253.D
Acq: 08 Apr 2025 08:39

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 62 Resp: 313194
Ion Ratio Lower Upper
62 100
98 6.4 5.4 8.2

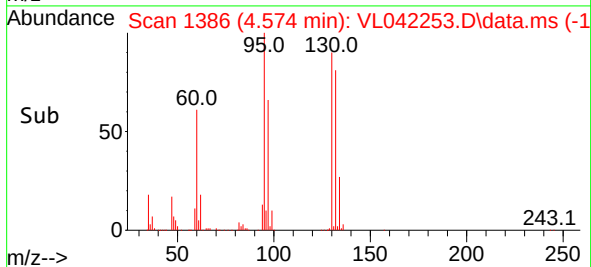
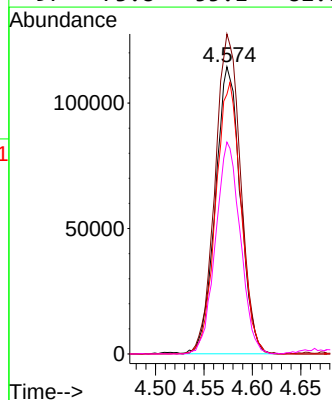
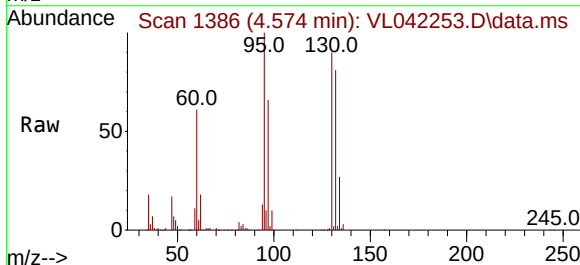
Manual Integrations
APPROVED

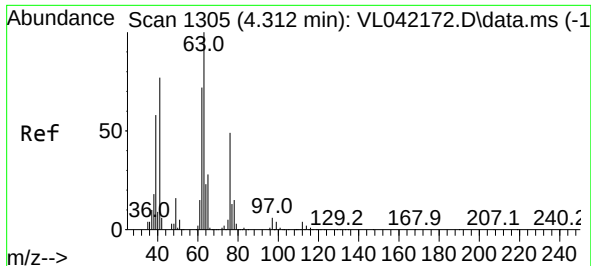
Reviewed By :Semsettin Yesilyurt 04/09/2025
Supervised By :Mahesh Dadoda 04/09/2025



#38
Trichloroethene
Concen: 10.032 ppbv
RT: 4.574 min Scan# 1386
Delta R.T. 0.029 min
Lab File: VL042253.D
Acq: 08 Apr 2025 08:39

Tgt Ion:130 Resp: 205933
Ion Ratio Lower Upper
130 100
95 111.4 89.8 134.8
132 90.5 77.4 116.2
97 73.8 55.1 82.7





#39

1,2-Dichloropropane

Concen: 10.501 ppbv

RT: 4.341 min Scan# 1314

Delta R.T. 0.029 min

Lab File: VL042253.D

Acq: 08 Apr 2025 08:39

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tgt Ion: 63 Resp: 188150

Ion Ratio Lower Upper

63 100

41 87.9 61.7 92.5

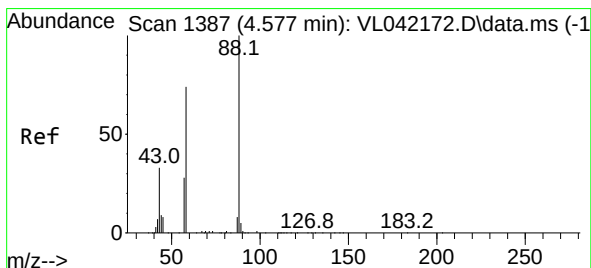
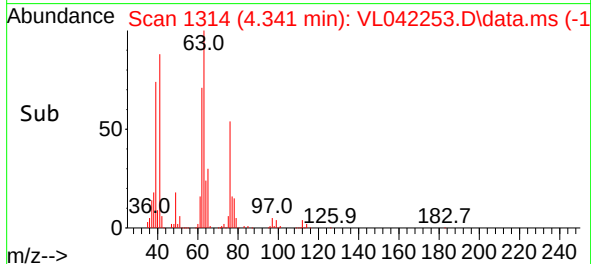
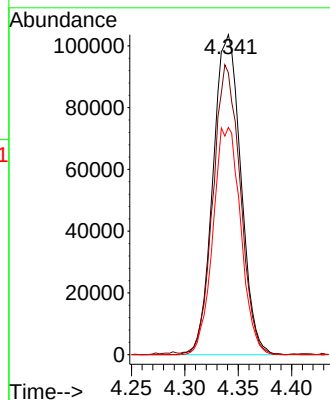
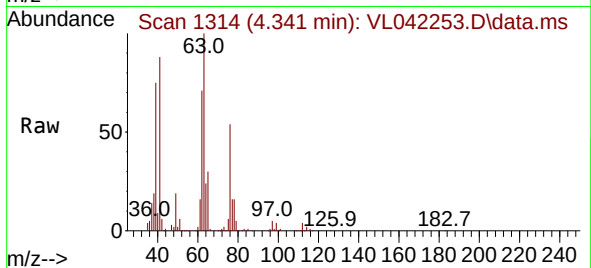
62 70.9 57.6 86.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/09/2025

Supervised By :Mahesh Dadoda 04/09/2025



#40

1,4-Dioxane

Concen: 9.409 ppbv

RT: 4.613 min Scan# 1398

Delta R.T. 0.035 min

Lab File: VL042253.D

Acq: 08 Apr 2025 08:39

Tgt Ion: 88 Resp: 89479

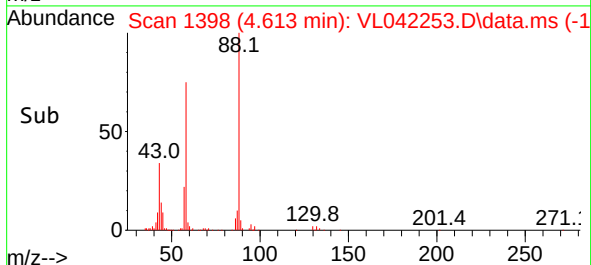
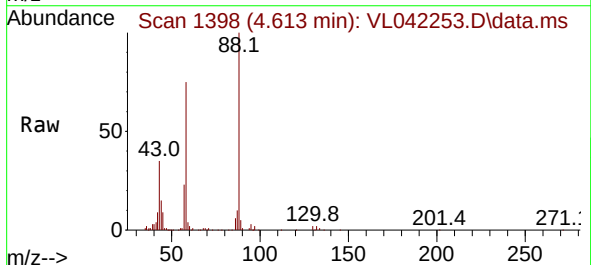
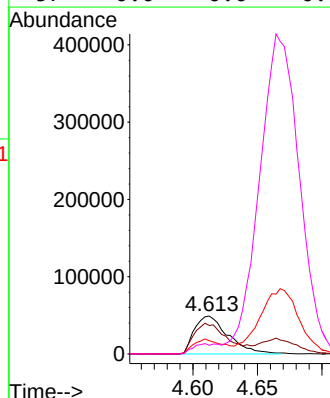
Ion Ratio Lower Upper

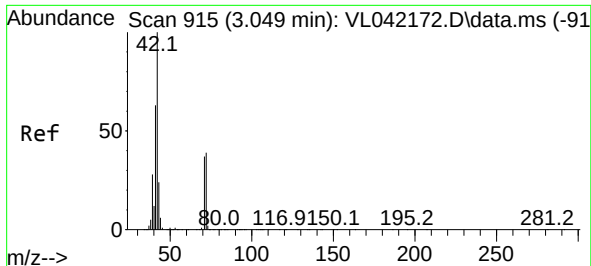
88 100

58 78.8 62.7 94.1

43 35.2 23.0 34.4#

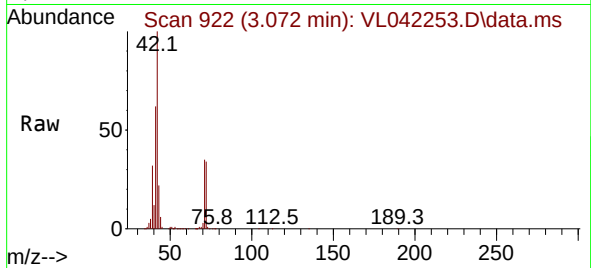
57 0.0 0.0 0.0





#41
Tetrahydrofuran
Concen: 10.073 ppbv
RT: 3.072 min Scan# 915
Delta R.T. 0.023 min
Lab File: VL042253.D
Acq: 08 Apr 2025 08:39

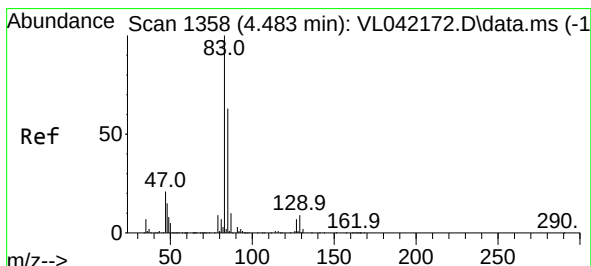
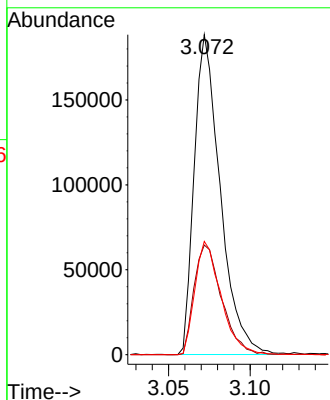
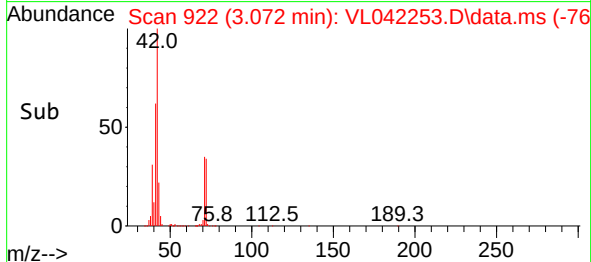
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010



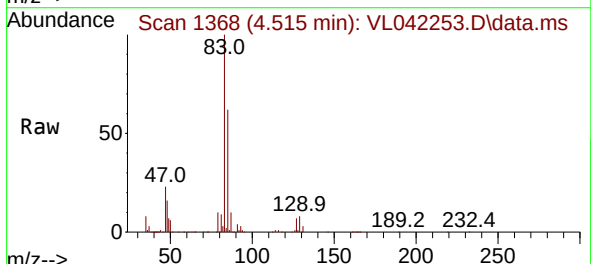
Tgt Ion: 42 Resp: 208730
Ion Ratio Lower Upper
42 100
72 36.5 31.4 47.0
71 35.6 30.2 45.4

Manual Integrations
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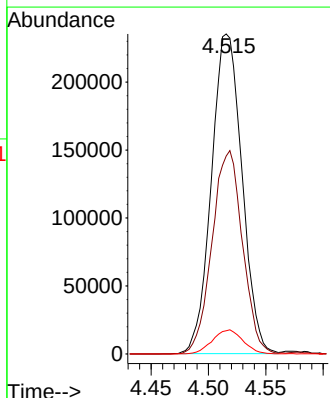
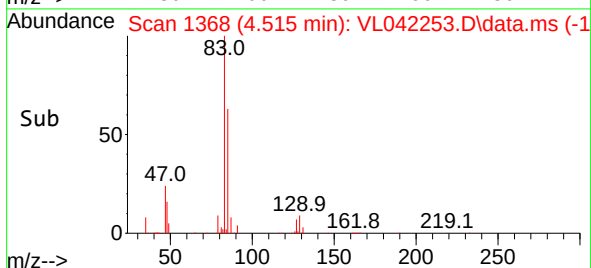
Reviewed By :Semsettin Yesilyurt 04/09/2025
Supervised By :Mahesh Dadoda 04/09/2025

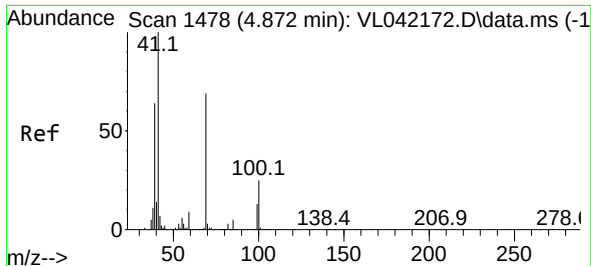


#42
Bromodichloromethane
Concen: 11.230 ppbv
RT: 4.515 min Scan# 1368
Delta R.T. 0.032 min
Lab File: VL042253.D
Acq: 08 Apr 2025 08:39



Tgt Ion: 83 Resp: 436058
Ion Ratio Lower Upper
83 100
85 61.8 50.5 75.7
127 7.2 5.9 8.9





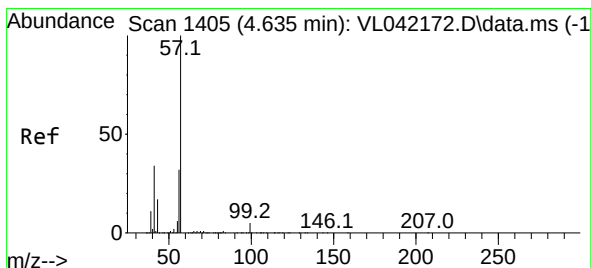
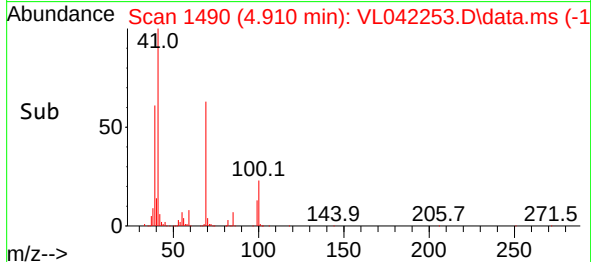
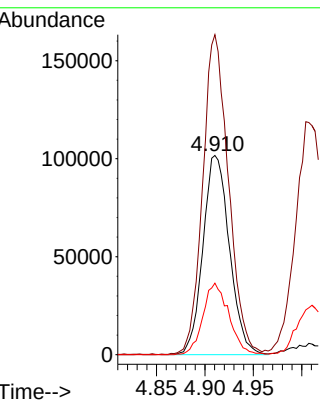
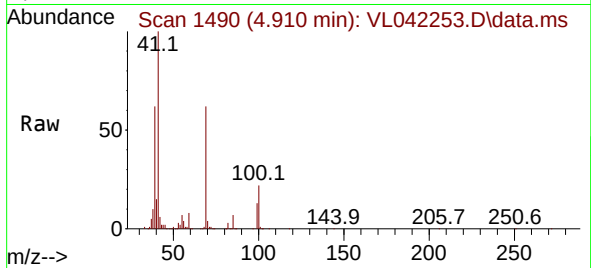
#43
Methyl Methacrylate
Concen: 9.288 ppbv
RT: 4.910 min Scan# 1478
Delta R.T. 0.039 min
Lab File: VL042253.D
Acq: 08 Apr 2025 08:39

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 69 Resp: 193449
Ion Ratio Lower Upper
69 100
41 156.1 123.8 185.6
100 35.2 28.4 42.6

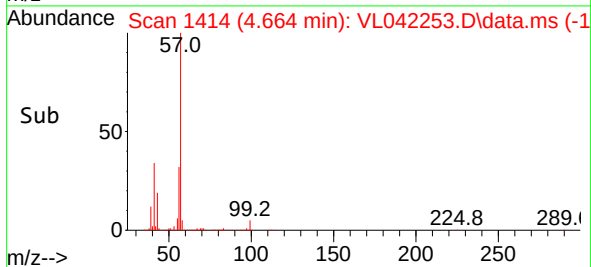
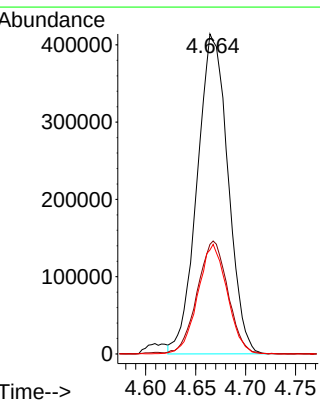
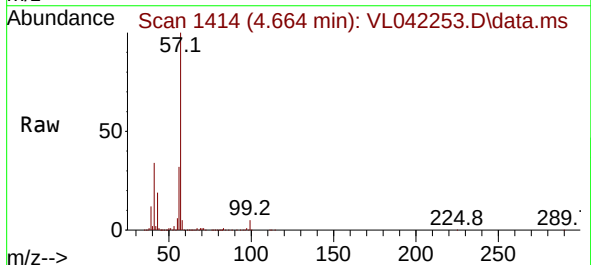
Manual Integrations
APPROVED

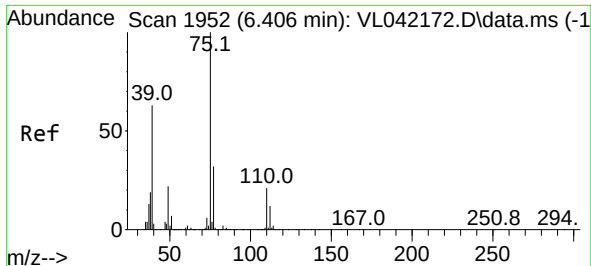
Reviewed By :Semsettin Yesilyurt 04/09/2025
Supervised By :Mahesh Dadoda 04/09/2025



#44
2,2,4-Trimethylpentane
Concen: 10.687 ppbv
RT: 4.664 min Scan# 1414
Delta R.T. 0.029 min
Lab File: VL042253.D
Acq: 08 Apr 2025 08:39

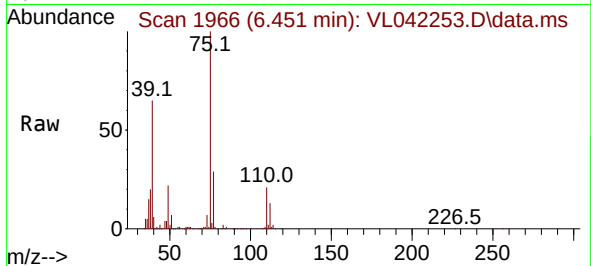
Tgt Ion: 57 Resp: 888509
Ion Ratio Lower Upper
57 100
41 35.5 26.8 40.2
56 32.8 25.6 38.4





#45
t-1,3-Dichloropropene
Concen: 8.273 ppbv
RT: 6.451 min Scan# 1952
Delta R.T. 0.045 min
Lab File: VL042253.D
Acq: 08 Apr 2025 08:39

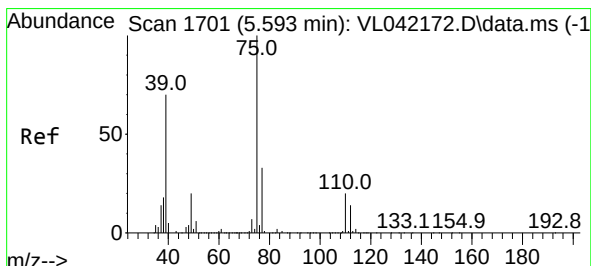
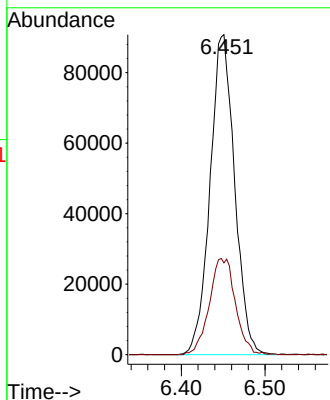
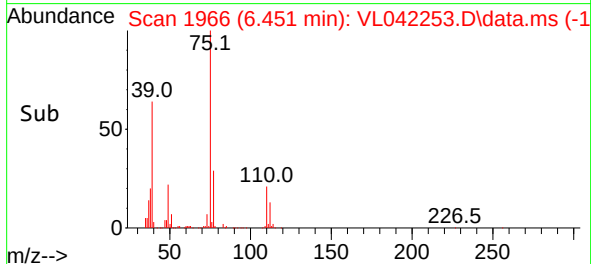
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010



Tgt Ion: 75 Resp: 18486
Ion Ratio Lower Upper
75 100
77 28.7 26.0 39.0

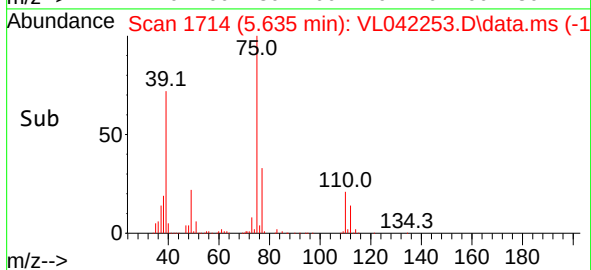
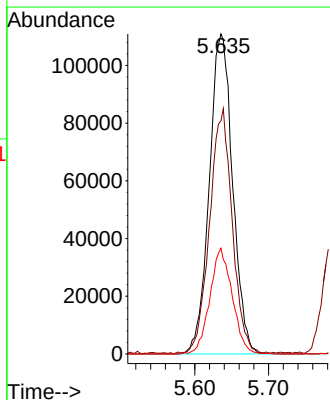
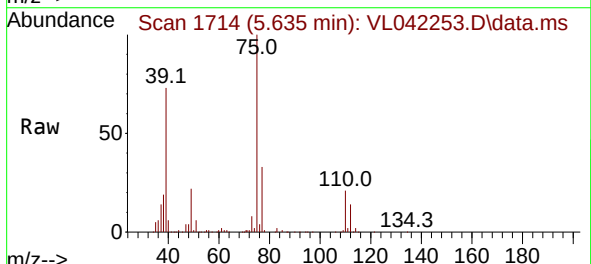
Manual Integrations
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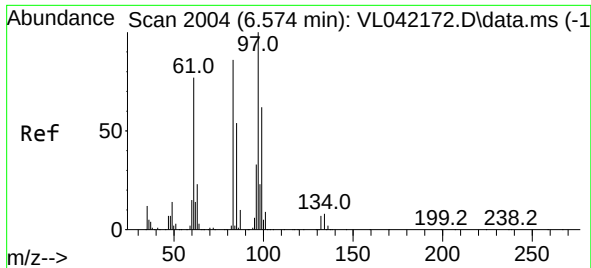
Reviewed By :Semsettin Yesilyurt 04/09/2025
Supervised By :Mahesh Dadoda 04/09/2025



#46
cis-1,3-Dichloropropene
Concen: 8.880 ppbv
RT: 5.635 min Scan# 1714
Delta R.T. 0.042 min
Lab File: VL042253.D
Acq: 08 Apr 2025 08:39

Tgt Ion: 75 Resp: 243227
Ion Ratio Lower Upper
75 100
39 72.4 55.8 83.6
77 33.1 26.0 39.0





#47
1,1,2-Trichloroethane
Concen: 11.011 ppbv
RT: 6.613 min Scan# 20
Delta R.T. 0.039 min
Lab File: VL042253.D
Acq: 08 Apr 2025 08:39

Instrument :

MSVOA_L

ClientSampleId :

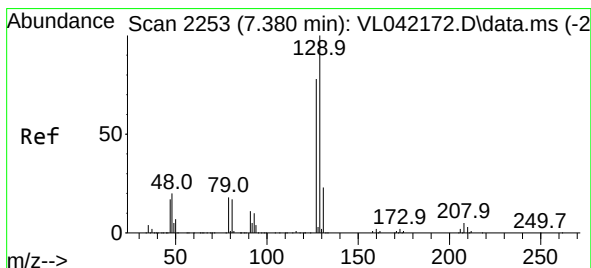
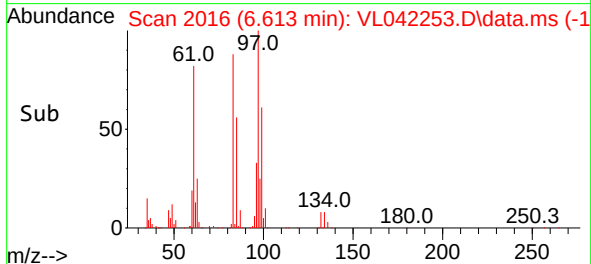
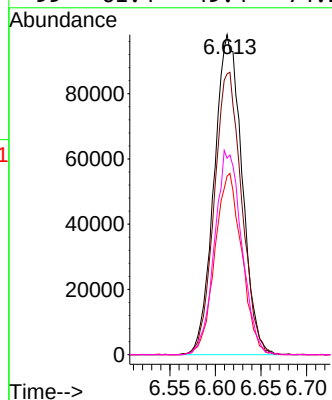
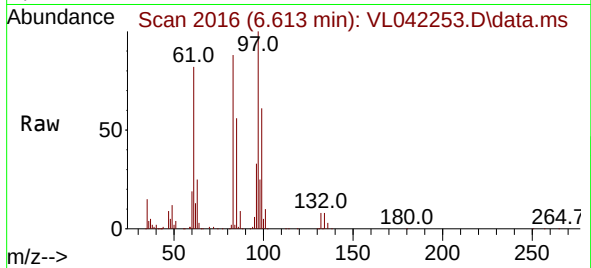
VSTDCCC010

Tgt Ion: 97 Resp: 20855
Ion Ratio Lower Upper
97 100
83 87.6 69.2 103.8
85 55.8 43.1 64.7
99 61.4 49.4 74.2

Manual Integrations

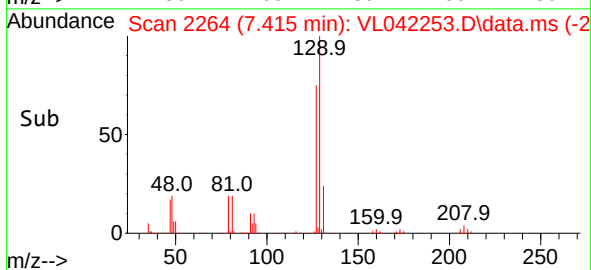
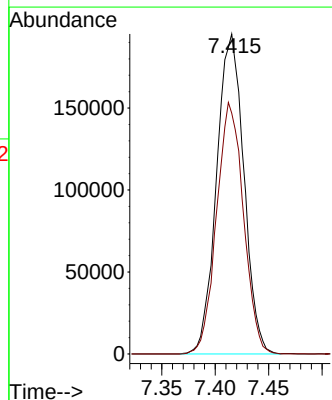
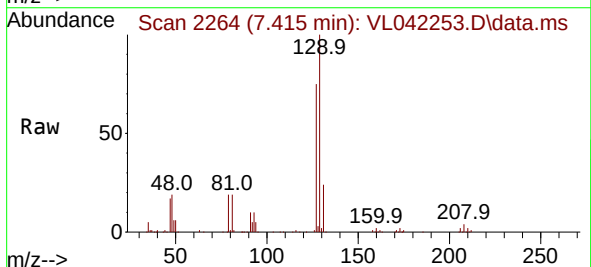
APPROVED

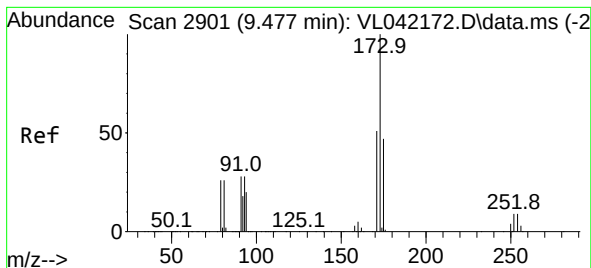
Reviewed By :Semsettin Yesilyurt 04/09/2025
Supervised By :Mahesh Dadoda 04/09/2025



#48
Dibromochloromethane
Concen: 10.783 ppbv
RT: 7.415 min Scan# 2264
Delta R.T. 0.035 min
Lab File: VL042253.D
Acq: 08 Apr 2025 08:39

Tgt Ion:129 Resp: 346117
Ion Ratio Lower Upper
129 100
127 77.6 39.1 117.2





#49

Bromoform

Concen: 10.395 ppbv

RT: 9.503 min Scan# 2901

Delta R.T. 0.026 min

Lab File: VL042253.D

Acq: 08 Apr 2025 08:39

Instrument :

MSVOA_L

ClientSampleId :

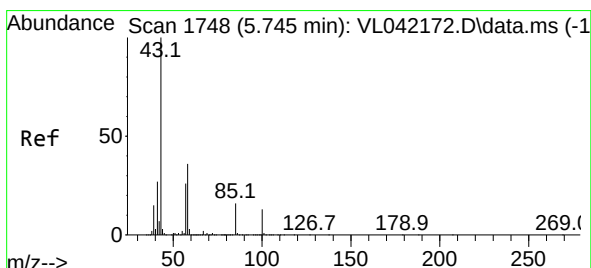
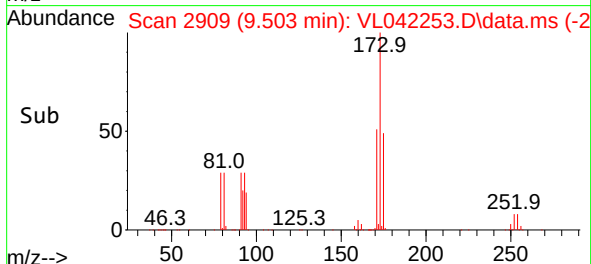
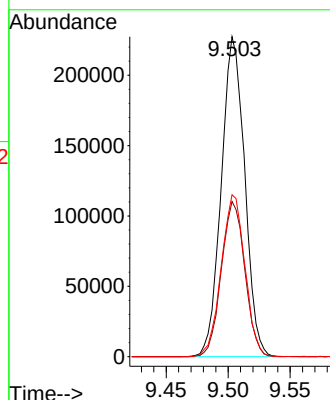
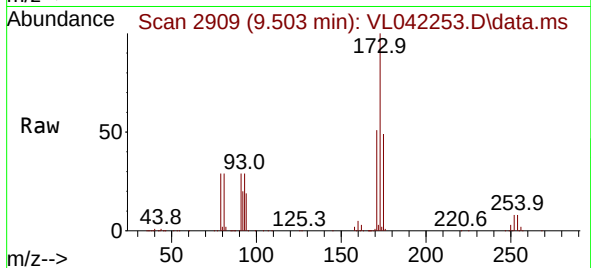
VSTDCCC010

Tgt Ion:173 Resp: 299582
 Ion Ratio Lower Upper
 173 100
 175 48.6 38.6 57.8
 171 51.3 41.8 62.6

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/09/2025
 Supervised By :Mahesh Dadoda 04/09/2025



#50

4-Methyl-2-Pentanone

Concen: 9.519 ppbv

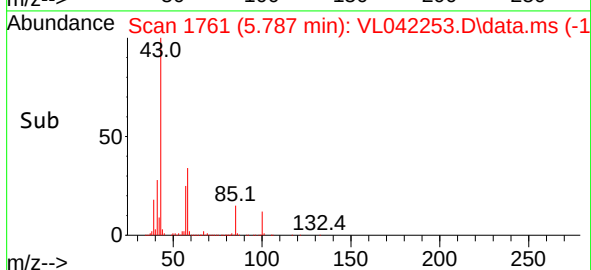
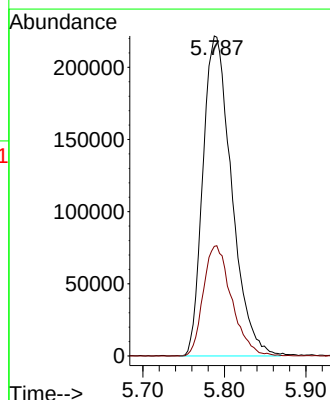
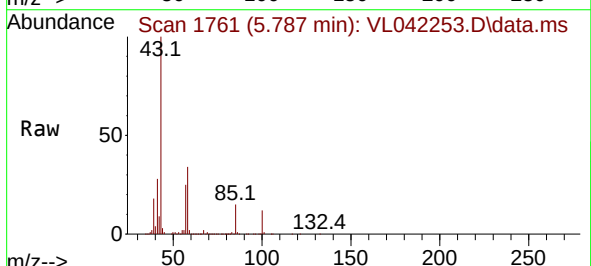
RT: 5.787 min Scan# 1761

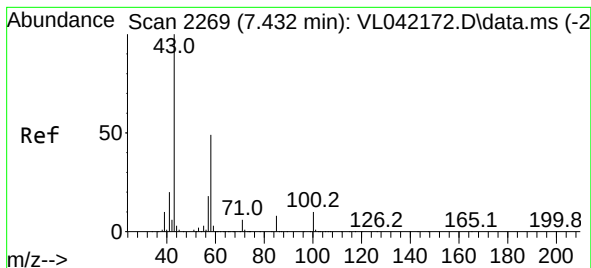
Delta R.T. 0.042 min

Lab File: VL042253.D

Acq: 08 Apr 2025 08:39

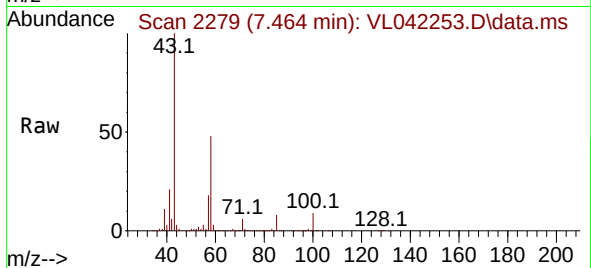
Tgt Ion: 43 Resp: 542853
 Ion Ratio Lower Upper
 43 100
 58 34.0 29.0 43.6





#51
2-Hexanone
Concen: 9.266 ppbv
RT: 7.464 min Scan# 21
Delta R.T. 0.032 min
Lab File: VL042253.D
Acq: 08 Apr 2025 08:39

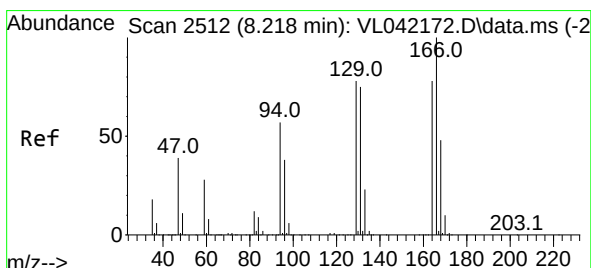
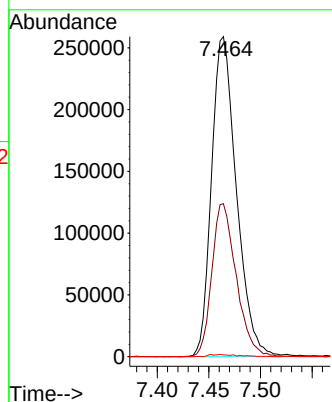
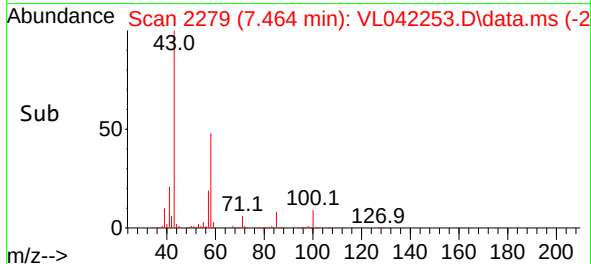
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010



Tgt Ion: 43 Resp: 433929
Ion Ratio Lower Upper
43 100
58 46.9 39.7 59.5
98 0.8 0.1 0.1

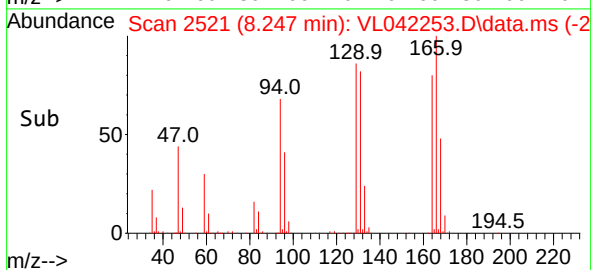
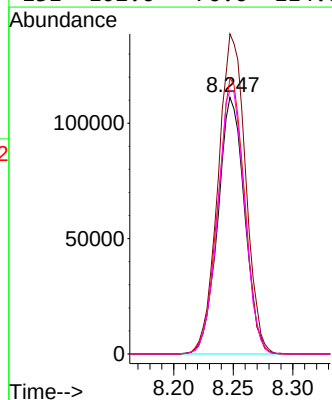
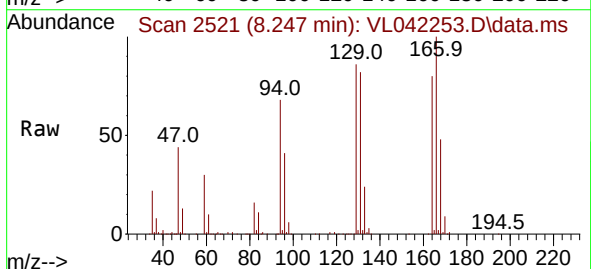
Manual Integrations
APPROVED

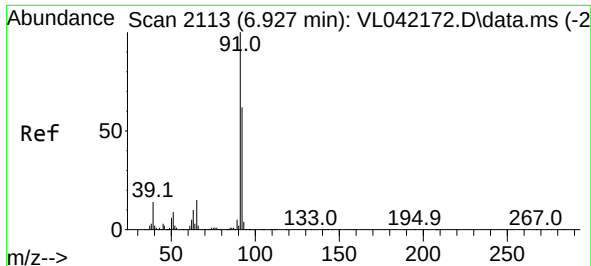
Reviewed By :Semsettin Yesilyurt 04/09/2025
Supervised By :Mahesh Dadoda 04/09/2025



#52
Tetrachloroethene
Concen: 8.862 ppbv
RT: 8.247 min Scan# 2521
Delta R.T. 0.029 min
Lab File: VL042253.D
Acq: 08 Apr 2025 08:39

Tgt Ion:164 Resp: 172915
Ion Ratio Lower Upper
164 100
166 124.7 102.5 153.7
129 107.4 79.8 119.8
131 102.6 76.6 114.8





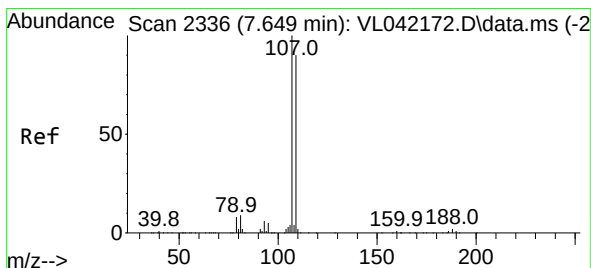
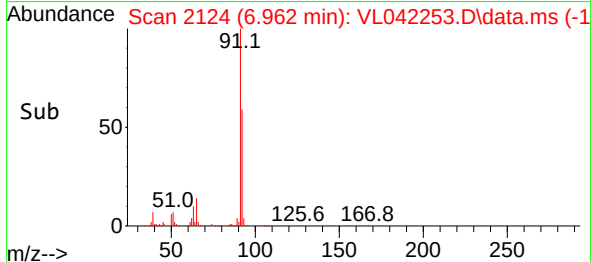
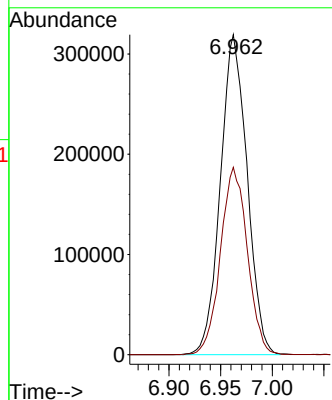
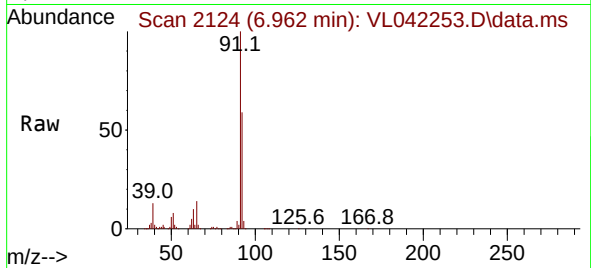
#53
Toluene
Concen: 9.853 ppbv
RT: 6.962 min Scan# 2113
Delta R.T. 0.035 min
Lab File: VL042253.D
Acq: 08 Apr 2025 08:39

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 91 Resp: 574664
Ion Ratio Lower Upper
91 100
92 59.1 48.4 72.6

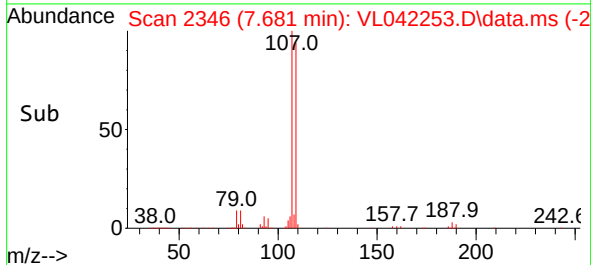
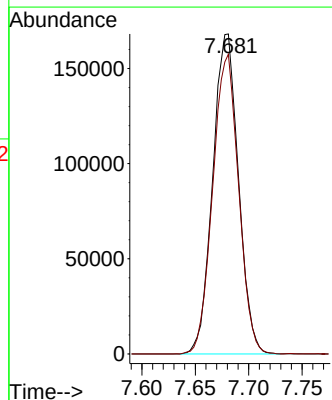
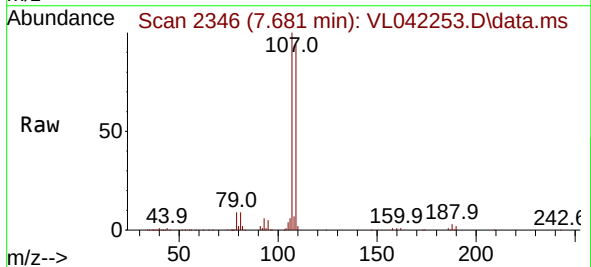
Manual Integrations
APPROVED

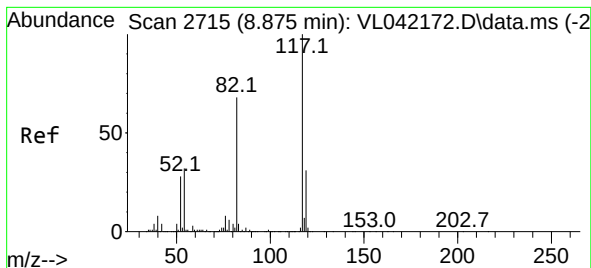
Reviewed By :Semsettin Yesilyurt 04/09/2025
Supervised By :Mahesh Dadoda 04/09/2025



#54
1,2-Dibromoethane
Concen: 10.659 ppbv
RT: 7.681 min Scan# 2346
Delta R.T. 0.032 min
Lab File: VL042253.D
Acq: 08 Apr 2025 08:39

Tgt Ion:107 Resp: 281436
Ion Ratio Lower Upper
107 100
109 93.6 72.2 108.4





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.904 min Scan# 21

Delta R.T. 0.029 min

Lab File: VL042253.D

Acq: 08 Apr 2025 08:39

Instrument :

MSVOA_L

ClientSampleId :

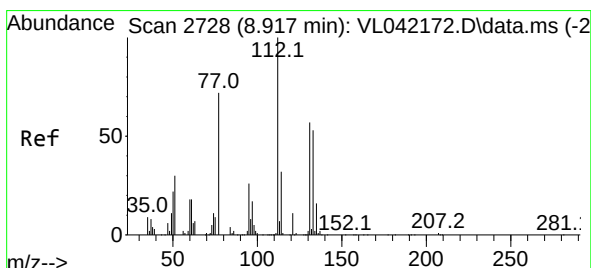
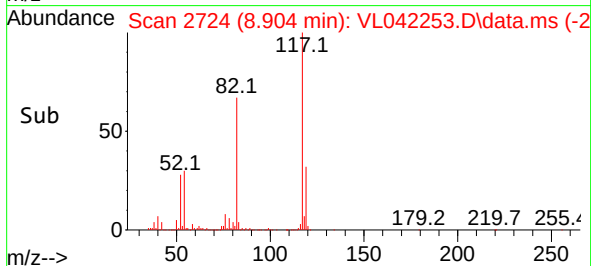
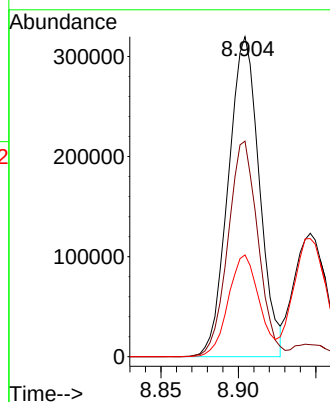
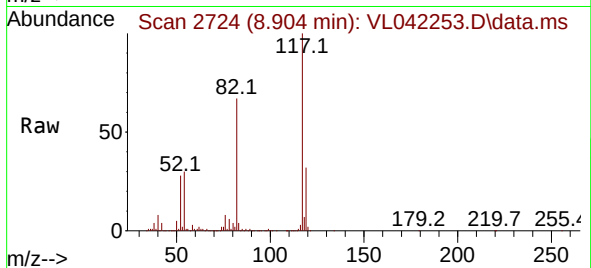
VSTDCCC010

Tgt Ion:117 Resp: 446954
 Ion Ratio Lower Upper
 117 100
 82 69.4 55.8 83.6
 119 31.7 25.5 38.3

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/09/2025
 Supervised By :Mahesh Dadoda 04/09/2025



#56

1,1,1,2-Tetrachloroethane

Concen: 11.647 ppbv

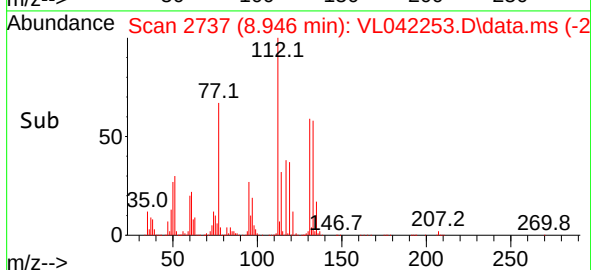
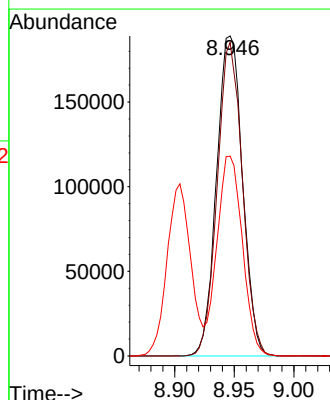
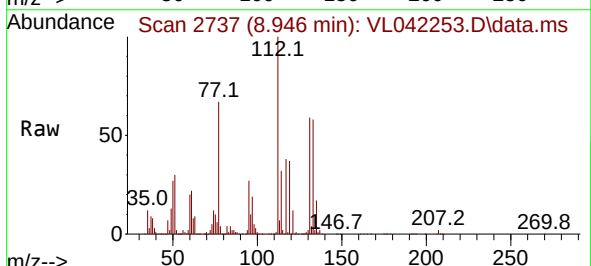
RT: 8.946 min Scan# 2737

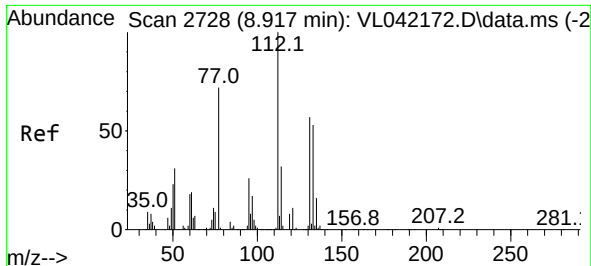
Delta R.T. 0.029 min

Lab File: VL042253.D

Acq: 08 Apr 2025 08:39

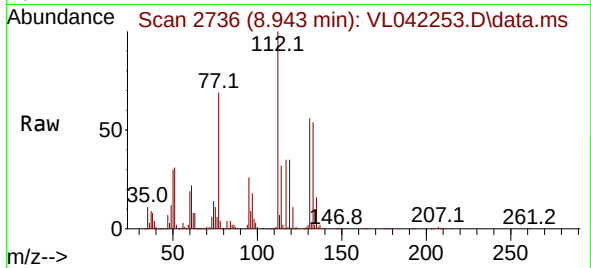
Tgt Ion:131 Resp: 286554
 Ion Ratio Lower Upper
 131 100
 133 94.6 76.6 114.8
 119 62.4 49.8 74.6





#57
Chlorobenzene
Concen: 11.411 ppbv
RT: 8.943 min Scan# 21
Delta R.T. 0.026 min
Lab File: VL042253.D
Acq: 08 Apr 2025 08:39

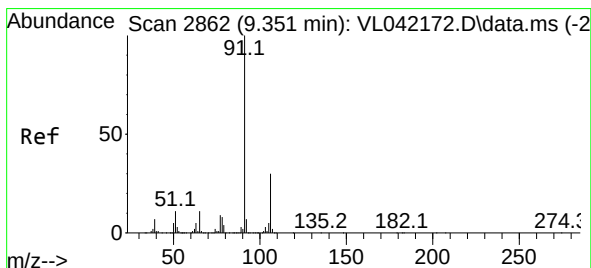
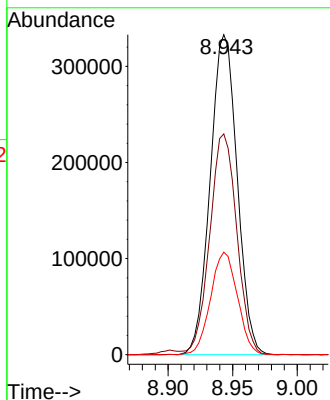
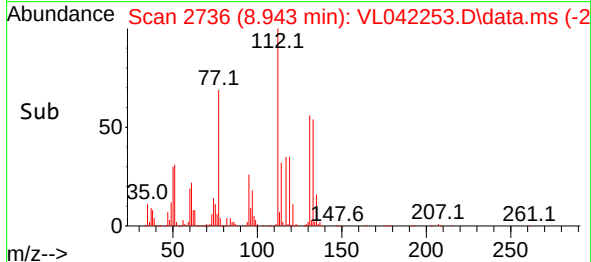
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010



Tgt Ion:112 Resp: 483780
Ion Ratio Lower Upper
112 100
77 69.0 58.2 87.2
114 32.1 29.1 35.5

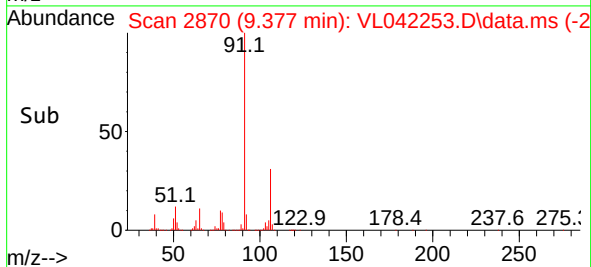
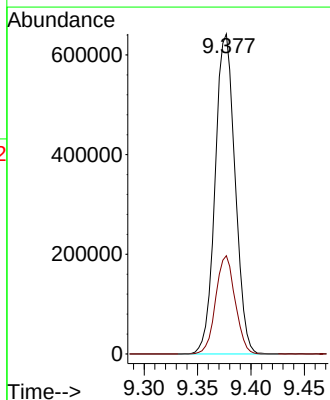
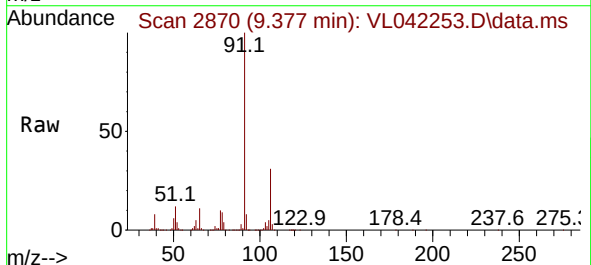
Manual Integrations
APPROVED

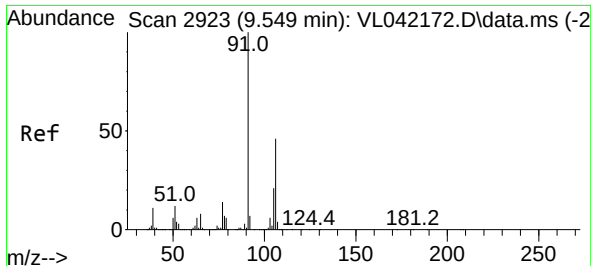
Reviewed By :Semsettin Yesilyurt 04/09/2025
Supervised By :Mahesh Dadoda 04/09/2025



#58
Ethyl Benzene
Concen: 10.479 ppbv
RT: 9.377 min Scan# 2870
Delta R.T. 0.026 min
Lab File: VL042253.D
Acq: 08 Apr 2025 08:39

Tgt Ion: 91 Resp: 831947
Ion Ratio Lower Upper
91 100
106 30.7 24.2 36.2





#59

m/p-Xylene

Concen: 22.266 ppbv m

RT: 9.571 min Scan# 2923

Delta R.T. 0.023 min

Lab File: VL042253.D

Acq: 08 Apr 2025 08:39

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tgt Ion: 91 Resp: 141155

Ion Ratio Lower Upper

91 100

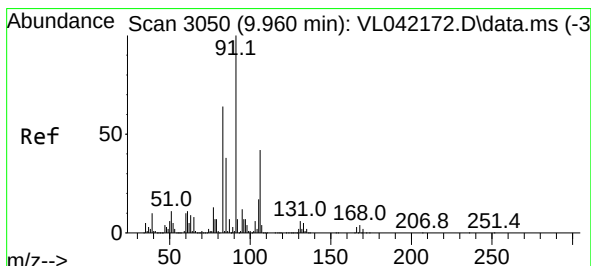
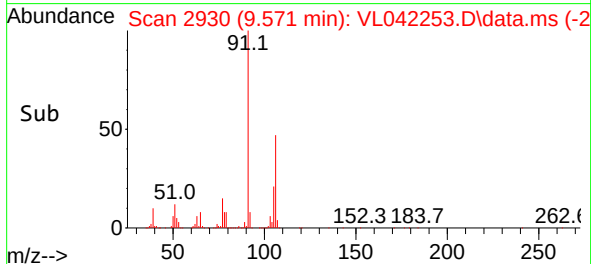
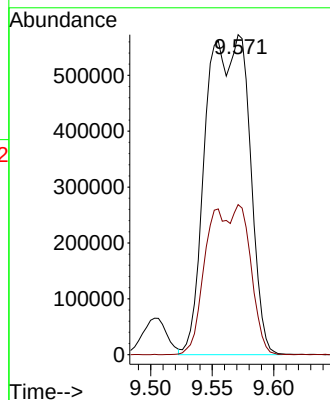
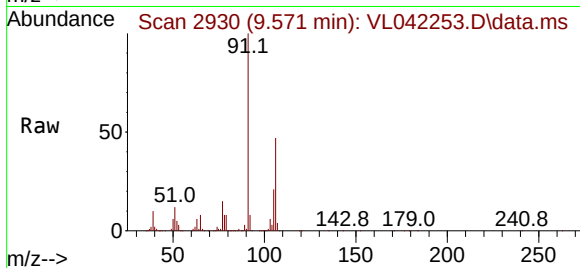
106 46.4 36.4 54.6

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/09/2025

Supervised By :Mahesh Dadoda 04/09/2025



#60

o-Xylene

Concen: 10.958 ppbv

RT: 9.982 min Scan# 3057

Delta R.T. 0.023 min

Lab File: VL042253.D

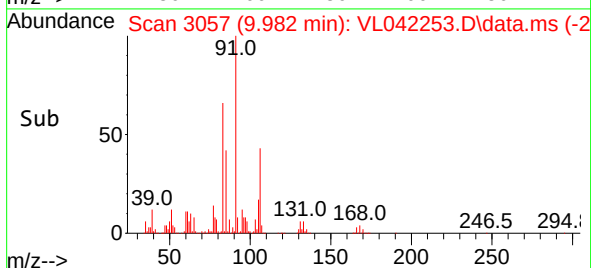
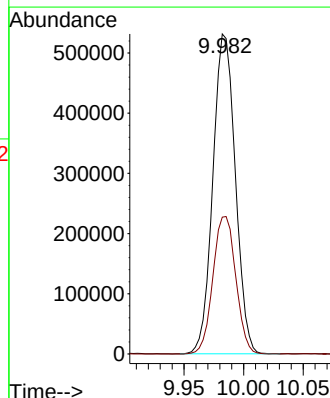
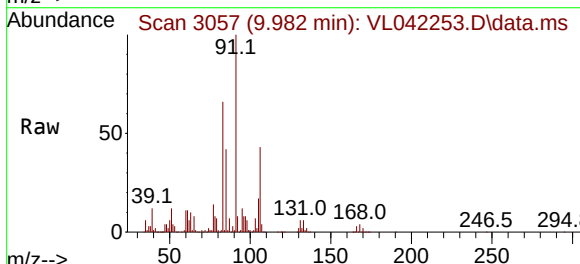
Acq: 08 Apr 2025 08:39

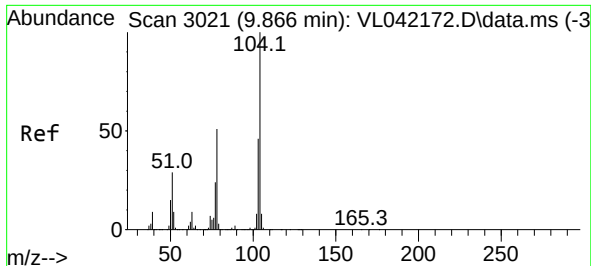
Tgt Ion: 91 Resp: 696371

Ion Ratio Lower Upper

91 100

106 43.8 20.8 62.5





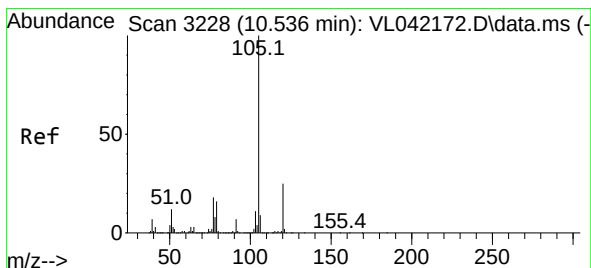
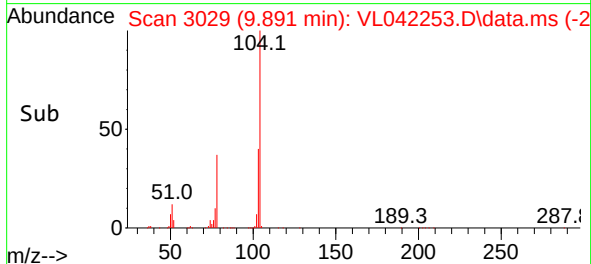
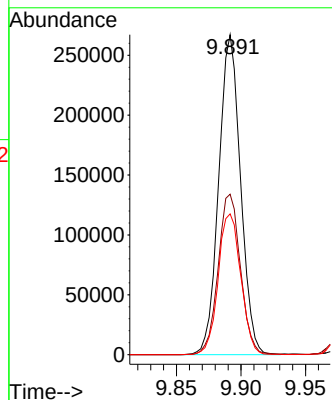
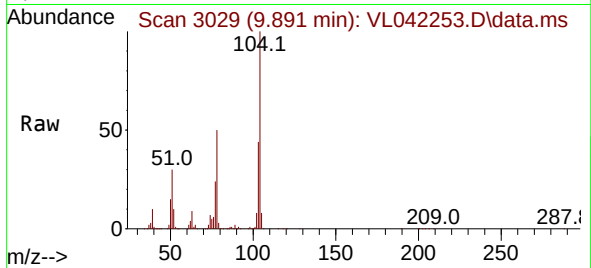
#61
Styrene
Concen: 9.965 ppbv
RT: 9.891 min Scan# 3021
Delta R.T. 0.026 min
Lab File: VL042253.D
Acq: 08 Apr 2025 08:39

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion:104 Resp: 31330
Ion Ratio Lower Upper
104 100
78 51.4 41.8 62.6
103 45.8 37.0 55.4

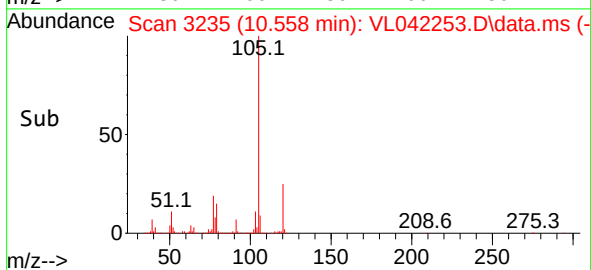
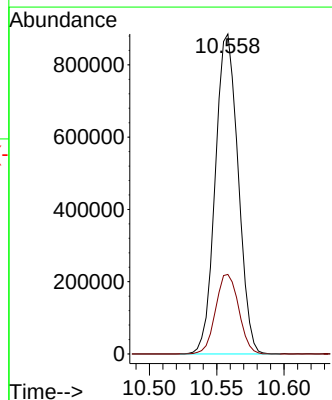
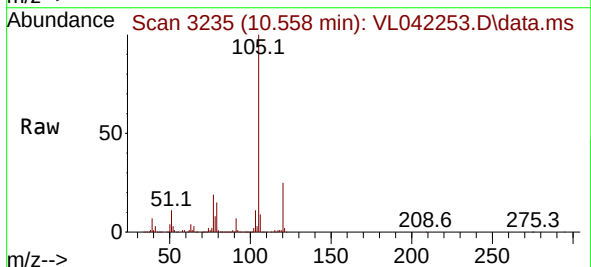
Manual Integrations
APPROVED

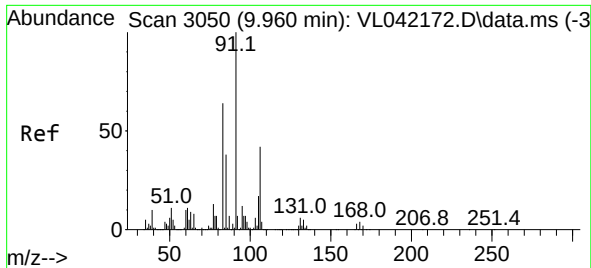
Reviewed By :Semsettin Yesilyurt 04/09/2025
Supervised By :Mahesh Dadoda 04/09/2025



#62
Isopropylbenzene
Concen: 10.988 ppbv
RT: 10.558 min Scan# 3235
Delta R.T. 0.023 min
Lab File: VL042253.D
Acq: 08 Apr 2025 08:39

Tgt Ion:105 Resp: 1044218
Ion Ratio Lower Upper
105 100
120 25.2 19.9 29.9





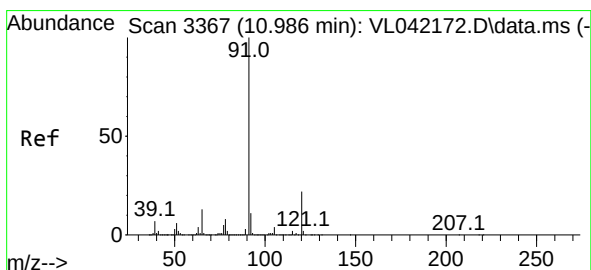
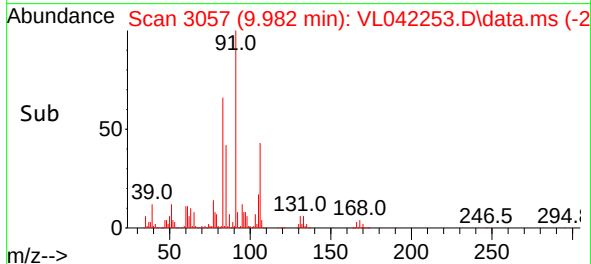
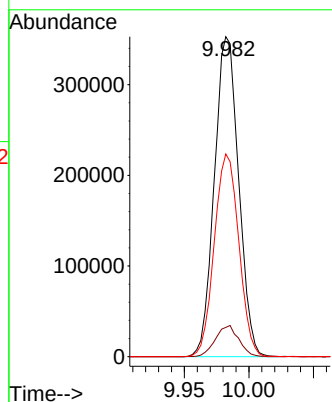
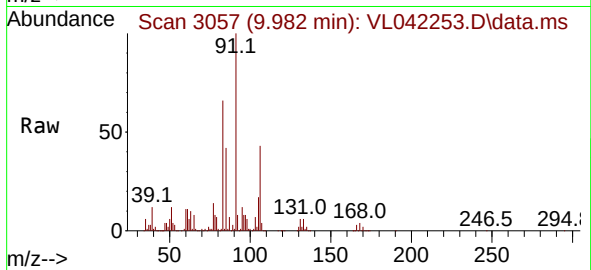
#63
1,1,2,2-Tetrachloroethane
Concen: 11.938 ppbv
RT: 9.982 min Scan# 3050
Delta R.T. 0.023 min
Lab File: VL042253.D
Acq: 08 Apr 2025 08:39

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 83 Resp: 460968
Ion Ratio Lower Upper
83 100
131 9.4 4.8 14.4
85 64.0 32.5 97.5

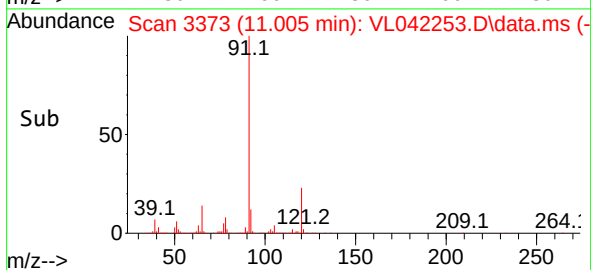
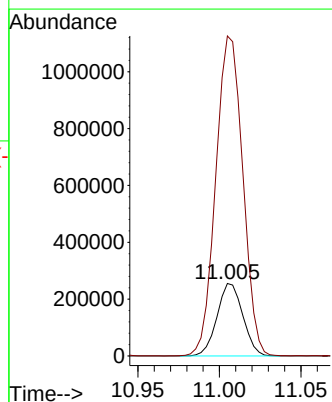
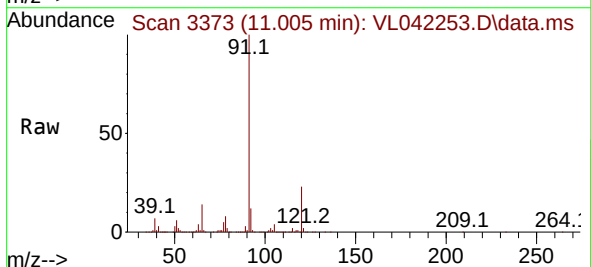
Manual Integrations
APPROVED

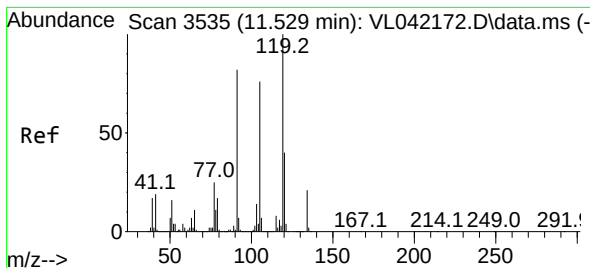
Reviewed By :Semsettin Yesilyurt 04/09/2025
Supervised By :Mahesh Dadoda 04/09/2025



#64
n-propylbenzene
Concen: 11.439 ppbv
RT: 11.005 min Scan# 3373
Delta R.T. 0.019 min
Lab File: VL042253.D
Acq: 08 Apr 2025 08:39

Tgt Ion:120 Resp: 279848
Ion Ratio Lower Upper
120 100
91 464.8 376.9 565.3





#65

tert-Butylbenzene

Concen: 10.755 ppbv

RT: 11.549 min Scan# 3541

Delta R.T. 0.019 min

Lab File: VL042253.D

Acq: 08 Apr 2025 08:39

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

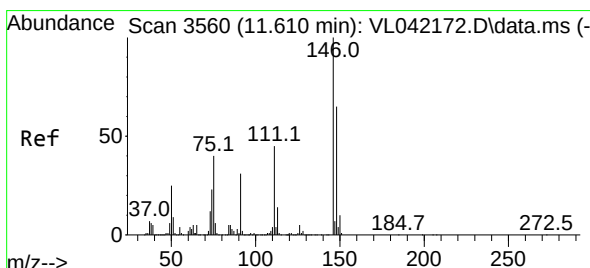
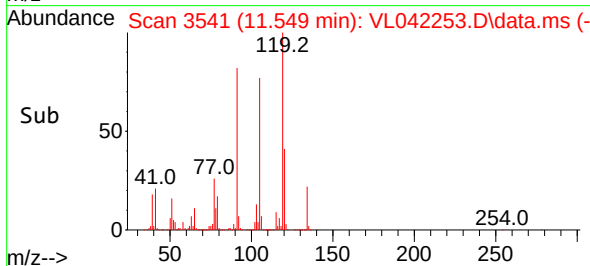
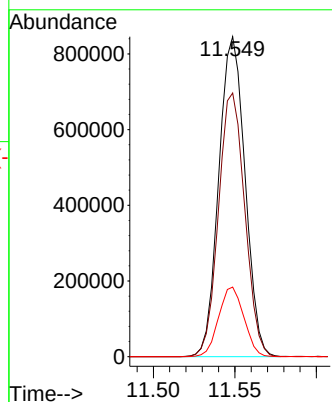
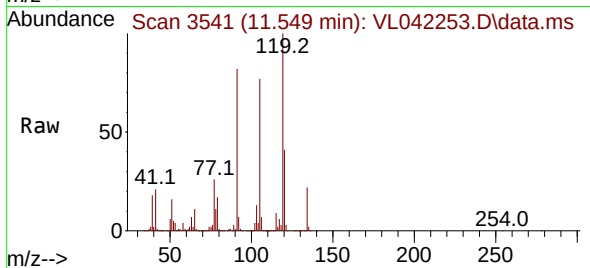
Tgt Ion: 119 Resp: 94523

Ion	Ratio	Lower	Upper
119	100		
91	82.7	66.0	99.0
134	21.0	16.7	25.1

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/09/2025
Supervised By :Mahesh Dadoda 04/09/2025



#66

Benzyl Chloride

Concen: 6.992 ppbv

RT: 11.633 min Scan# 3567

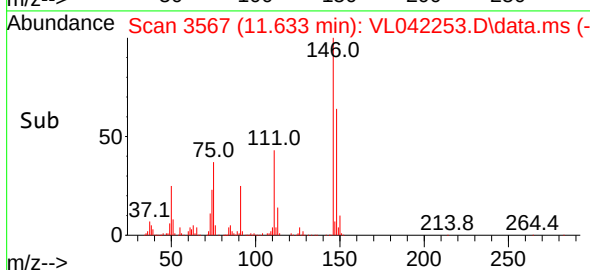
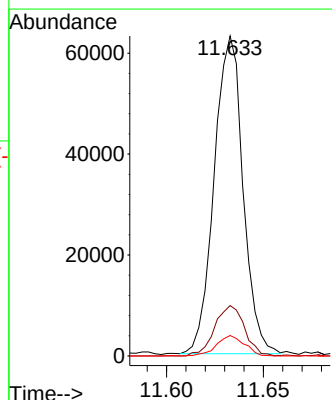
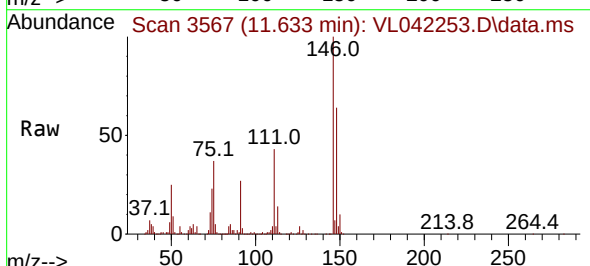
Delta R.T. 0.023 min

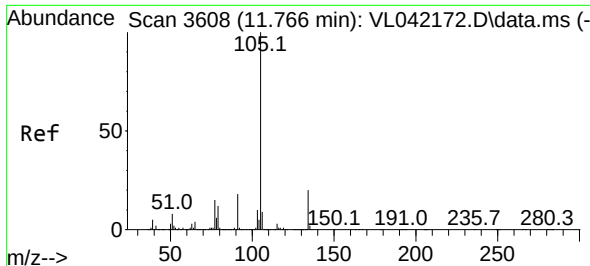
Lab File: VL042253.D

Acq: 08 Apr 2025 08:39

Tgt Ion: 91 Resp: 65203

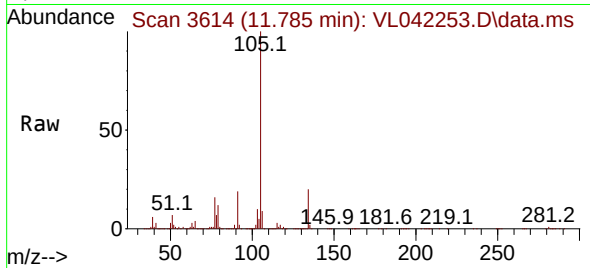
Ion	Ratio	Lower	Upper
91	100		
126	16.6	13.8	20.6
128	6.3	4.5	6.7





#67
 sec-Butylbenzene
 Concen: 10.994 ppbv
 RT: 11.785 min Scan# 3184
 Delta R.T. 0.019 min
 Lab File: VL042253.D
 Acq: 08 Apr 2025 08:39

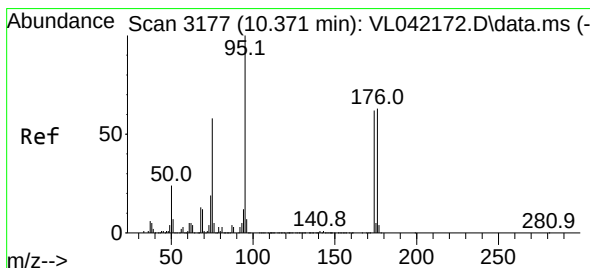
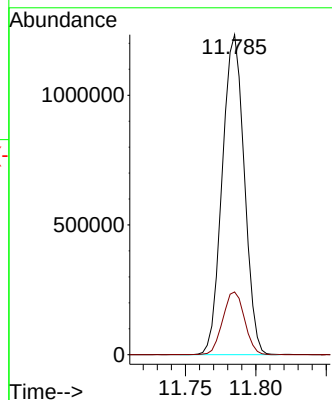
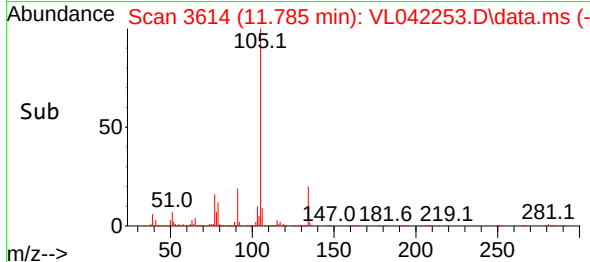
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010



Tgt Ion: 105 Resp: 1343060
 Ion Ratio Lower Upper
 105 100
 134 19.4 15.5 23.3

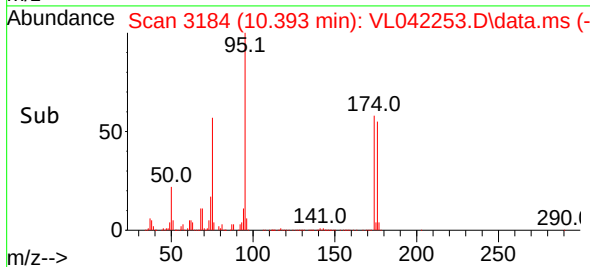
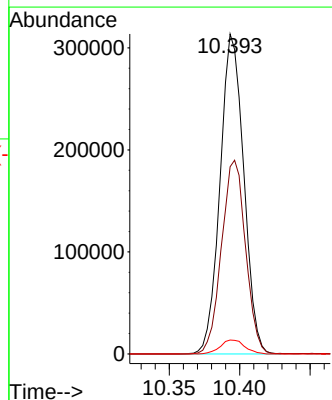
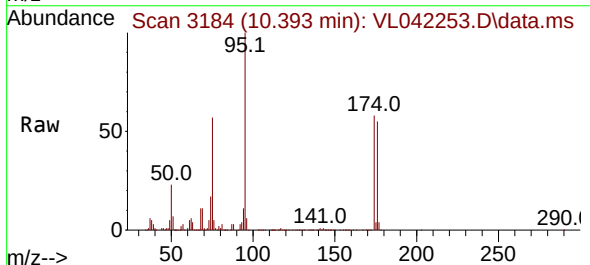
Manual Integrations
 APPROVED

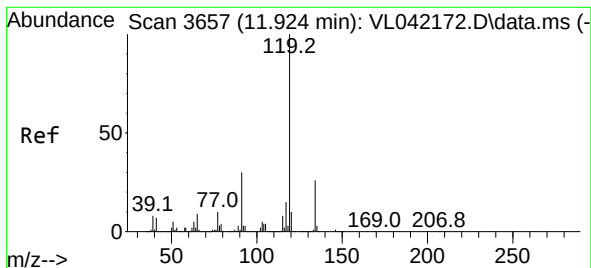
Reviewed By :Semsettin Yesilyurt 04/09/2025
 Supervised By :Mahesh Dadoda 04/09/2025



#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.991 ppbv
 RT: 10.393 min Scan# 3184
 Delta R.T. 0.023 min
 Lab File: VL042253.D
 Acq: 08 Apr 2025 08:39

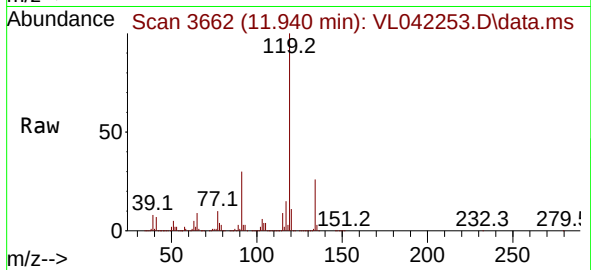
Tgt Ion: 95 Resp: 366722
 Ion Ratio Lower Upper
 95 100
 174 61.7 50.6 76.0
 175 4.5 3.8 5.6





#69
p-Isopropyltoluene
Concen: 10.882 ppbv
RT: 11.940 min Scan# 3662
Delta R.T. 0.016 min
Lab File: VL042253.D
Acq: 08 Apr 2025 08:39

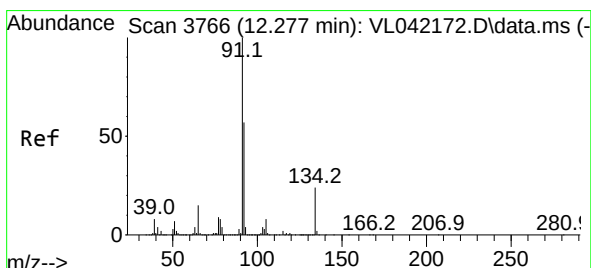
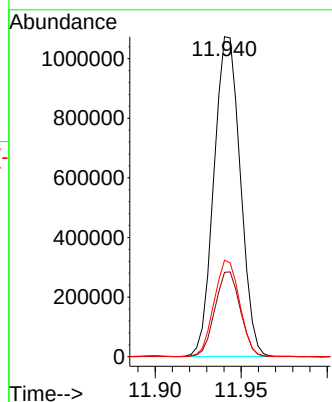
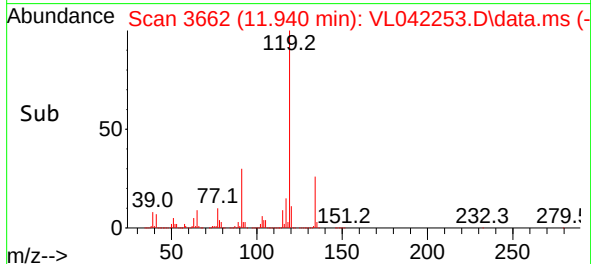
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010



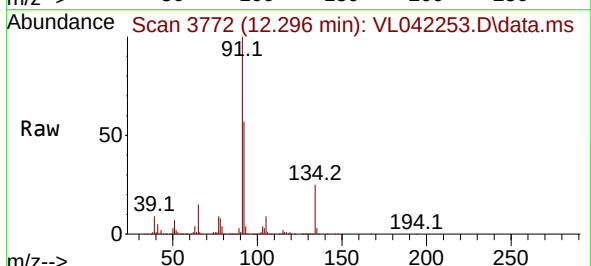
Tgt Ion: 119 Resp: 1144759
Ion Ratio Lower Upper
119 100
134 25.7 20.4 30.6
91 29.3 23.7 35.5

Manual Integrations
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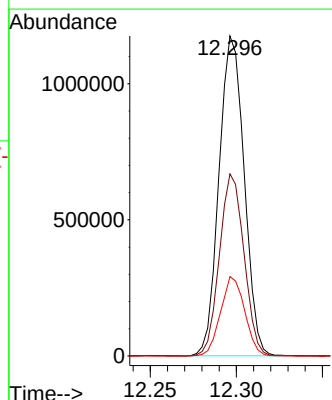
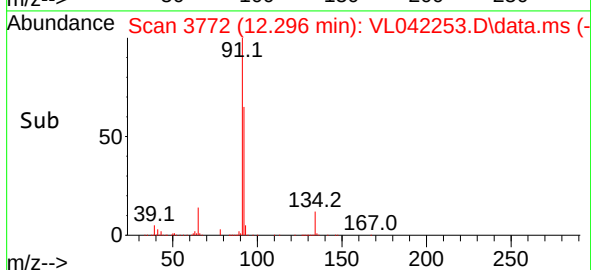
Reviewed By :Semsettin Yesilyurt 04/09/2025
Supervised By :Mahesh Dadoda 04/09/2025

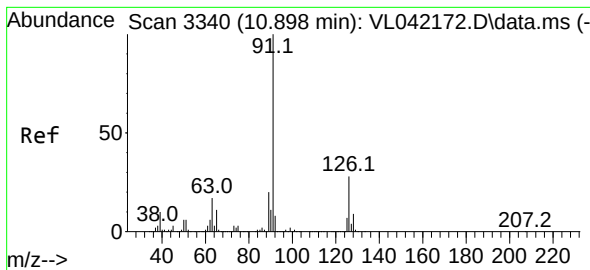


#70
n-Butylbenzene
Concen: 11.103 ppbv
RT: 12.296 min Scan# 3772
Delta R.T. 0.019 min
Lab File: VL042253.D
Acq: 08 Apr 2025 08:39



Tgt Ion: 91 Resp: 1194481
Ion Ratio Lower Upper
91 100
92 55.7 44.9 67.3
134 23.8 19.2 28.8





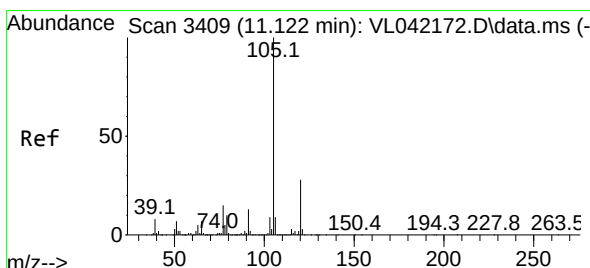
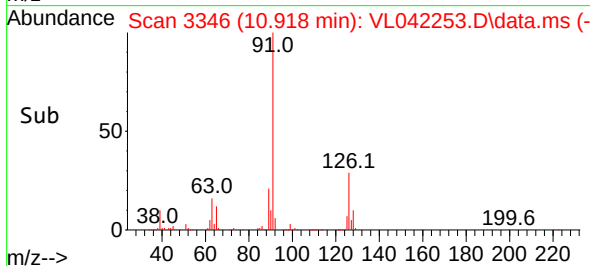
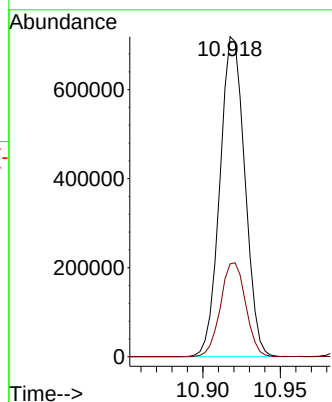
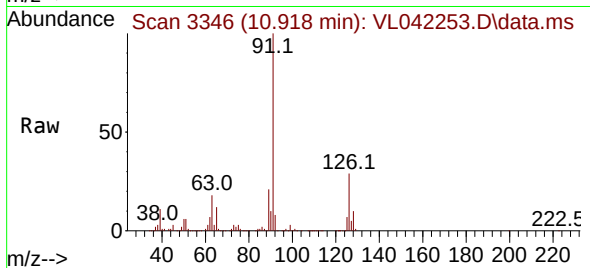
#71
2-Chlorotoluene
Concen: 10.935 ppbv
RT: 10.918 min Scan# 31
Delta R.T. 0.019 min
Lab File: VL042253.D
Acq: 08 Apr 2025 08:39

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 91 Resp: 806572
Ion Ratio Lower Upper
91 100
126 29.6 11.6 46.4

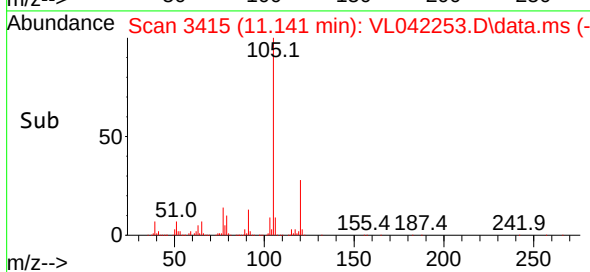
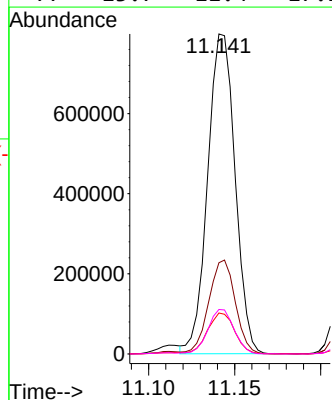
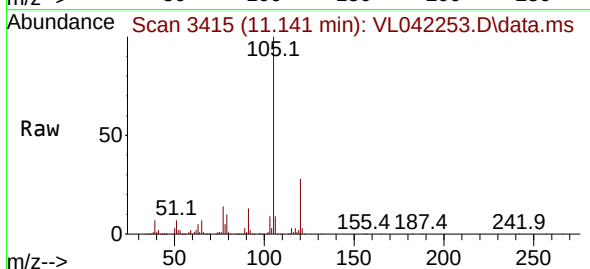
Manual Integrations
APPROVED

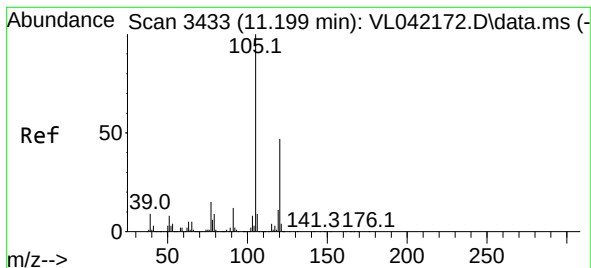
Reviewed By :Semsettin Yesilyurt 04/09/2025
Supervised By :Mahesh Dadoda 04/09/2025



#72
4-Ethyltoluene
Concen: 11.190 ppbv
RT: 11.141 min Scan# 3415
Delta R.T. 0.019 min
Lab File: VL042253.D
Acq: 08 Apr 2025 08:39

Tgt Ion:105 Resp: 885452
Ion Ratio Lower Upper
105 100
120 29.1 23.4 35.0
91 13.2 10.3 15.5
77 13.7 11.4 17.2





#73

1,3,5-Trimethylbenzene

Concen: 11.080 ppbv

RT: 11.222 min Scan# 3440

Delta R.T. 0.023 min

Lab File: VL042253.D

Acq: 08 Apr 2025 08:39

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tgt Ion:105 Resp: 765708

Ion Ratio Lower Upper

105 100

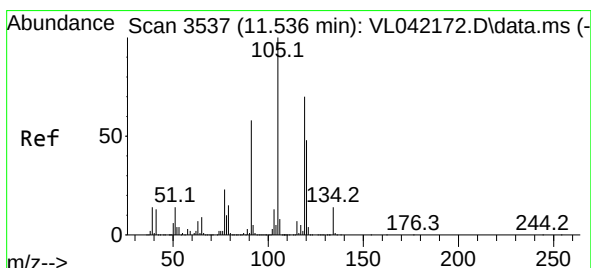
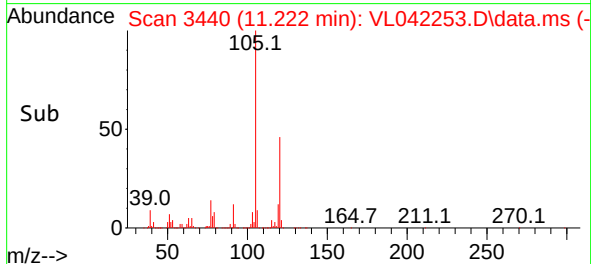
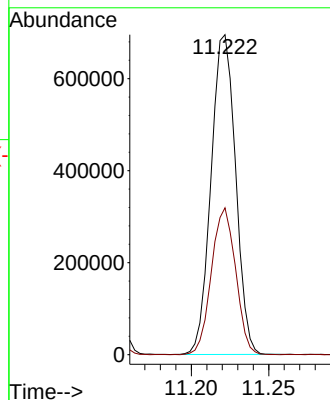
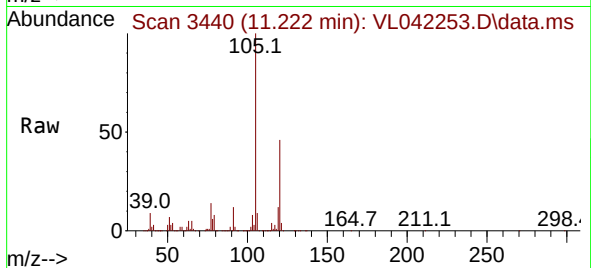
120 45.9 37.4 56.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/09/2025

Supervised By :Mahesh Dadoda 04/09/2025



#74

1,2,4-Trimethylbenzene

Concen: 10.660 ppbv

RT: 11.555 min Scan# 3543

Delta R.T. 0.019 min

Lab File: VL042253.D

Acq: 08 Apr 2025 08:39

Tgt Ion:105 Resp: 848667

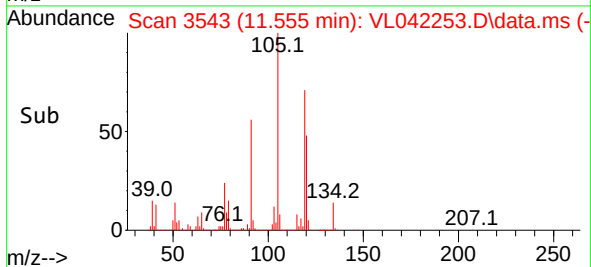
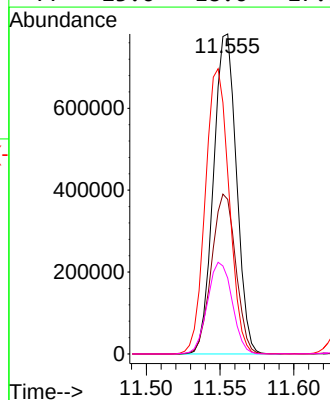
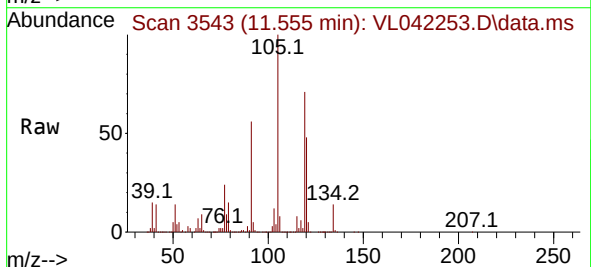
Ion Ratio Lower Upper

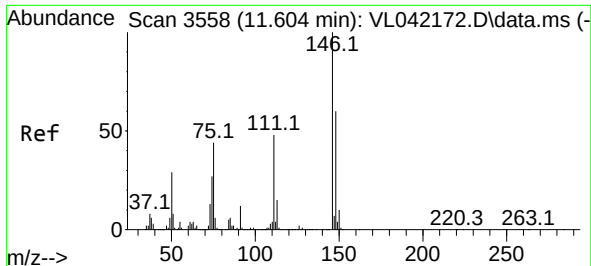
105 100

120 48.3 38.6 58.0

91 56.4 46.2 69.2

77 23.6 18.6 27.8





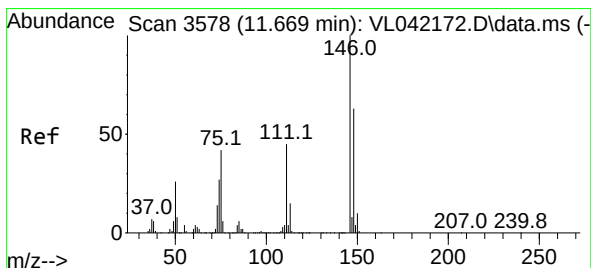
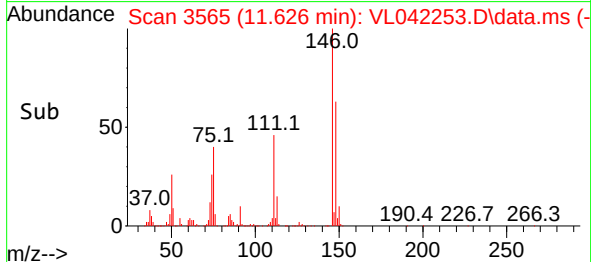
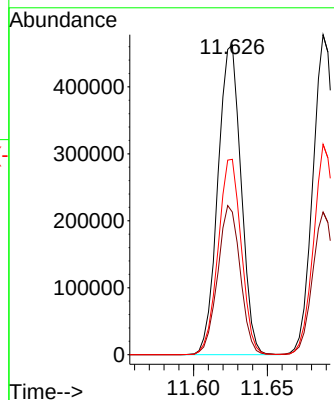
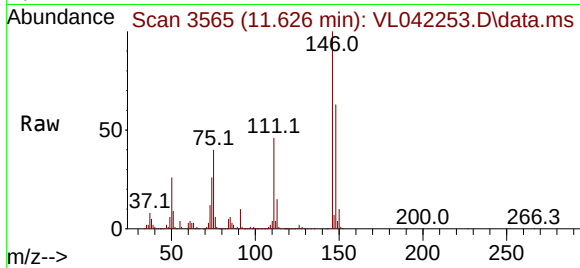
#75
1,3-Dichlorobenzene
Concen: 11.584 ppbv
RT: 11.626 min Scan# 3558
Delta R.T. 0.023 min
Lab File: VL042253.D
Acq: 08 Apr 2025 08:39

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion:146 Resp: 505824
Ion Ratio Lower Upper
146 100
111 46.9 23.8 71.2
148 62.9 31.9 95.9

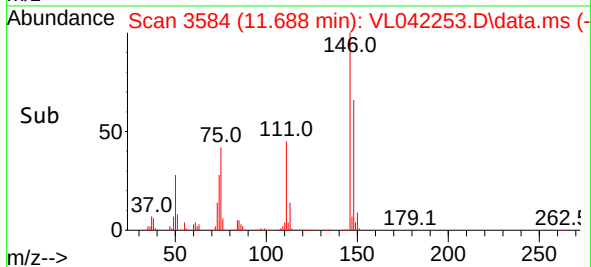
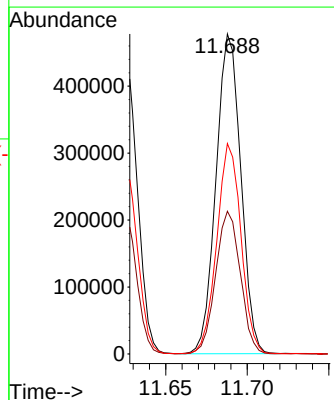
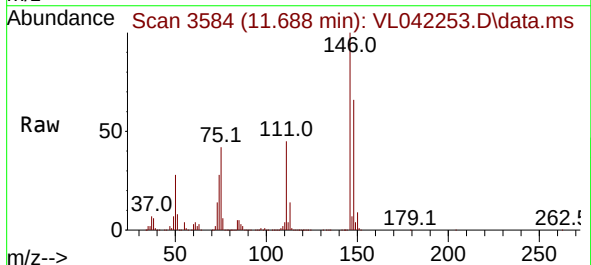
Manual Integrations
APPROVED

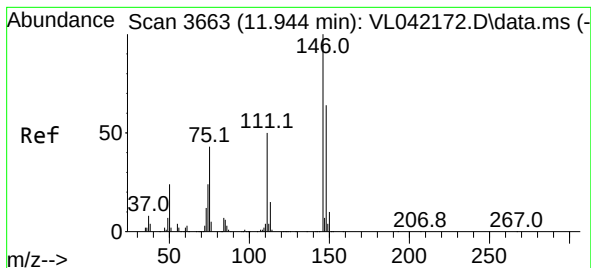
Reviewed By :Semsettin Yesilyurt 04/09/2025
Supervised By :Mahesh Dadoda 04/09/2025



#76
1,4-Dichlorobenzene
Concen: 11.634 ppbv
RT: 11.688 min Scan# 3584
Delta R.T. 0.019 min
Lab File: VL042253.D
Acq: 08 Apr 2025 08:39

Tgt Ion:146 Resp: 505562
Ion Ratio Lower Upper
146 100
111 44.5 23.0 69.0
148 64.5 31.9 95.7





#77

1,2-Dichlorobenzene

Concen: 11.837 ppbv

RT: 11.963 min Scan# 30

Delta R.T. 0.019 min

Lab File: VL042253.D

Acq: 08 Apr 2025 08:39

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tgt Ion:146 Resp: 503274

Ion Ratio Lower Upper

146 100

111 47.8 24.8 74.3

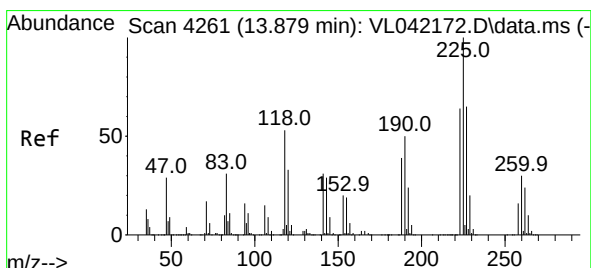
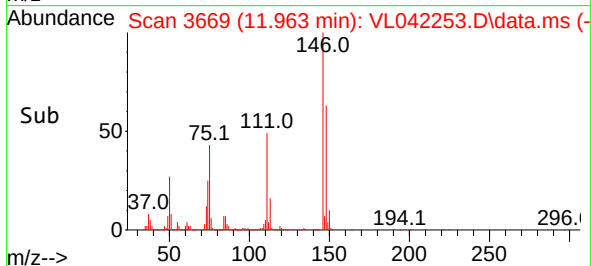
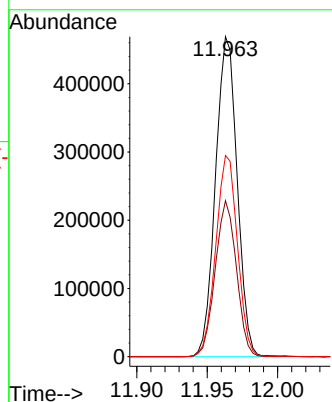
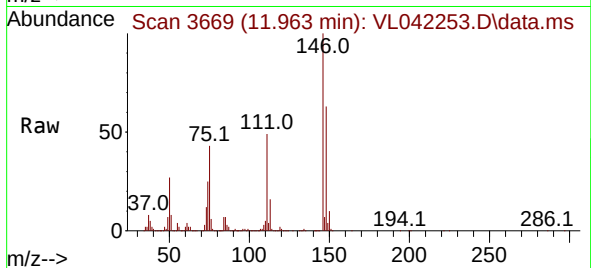
148 63.0 31.6 94.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/09/2025

Supervised By :Mahesh Dadoda 04/09/2025



#78

Hexachloro-1,3-Butadiene

Concen: 9.223 ppbv

RT: 13.895 min Scan# 4266

Delta R.T. 0.016 min

Lab File: VL042253.D

Acq: 08 Apr 2025 08:39

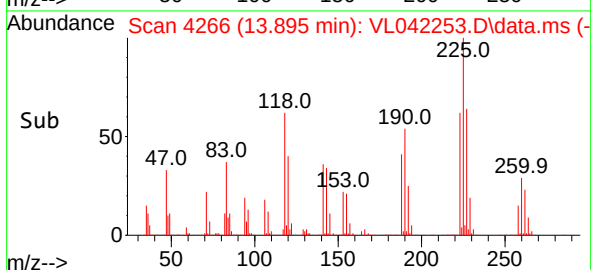
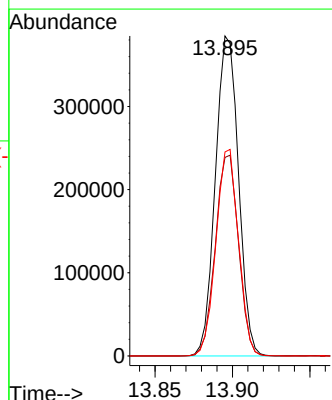
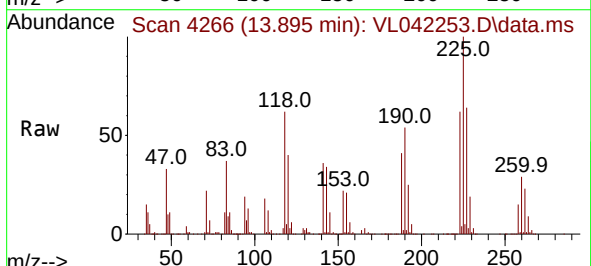
Tgt Ion:225 Resp: 399147

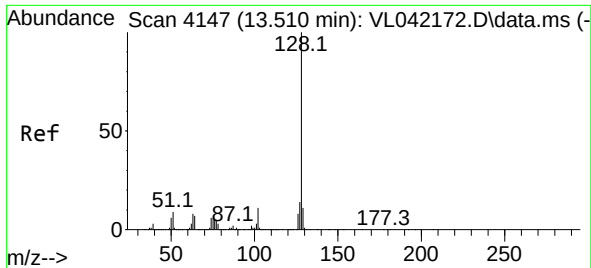
Ion Ratio Lower Upper

225 100

223 62.9 50.6 76.0

227 62.9 51.2 76.8





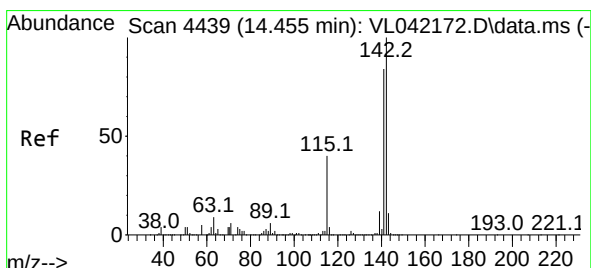
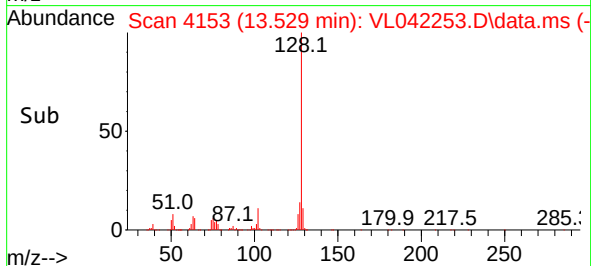
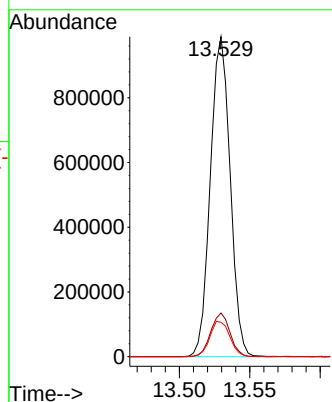
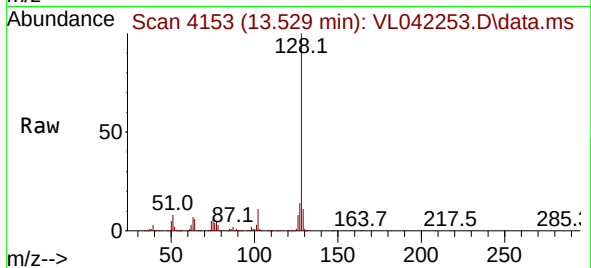
#79
Naphthalene
Concen: 11.108 ppbv
RT: 13.529 min Scan# 4147
Delta R.T. 0.019 min
Lab File: VL042253.D
Acq: 08 Apr 2025 08:39

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion:128 Resp: 96731
Ion Ratio Lower Upper
128 100
127 13.7 10.8 16.2
129 10.8 9.0 13.4

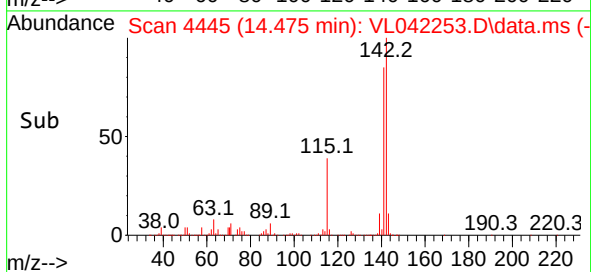
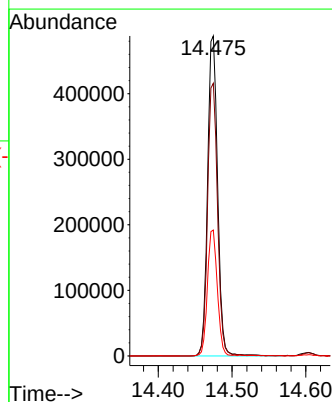
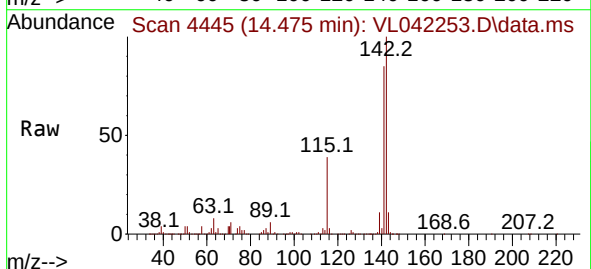
Manual Integrations
APPROVED

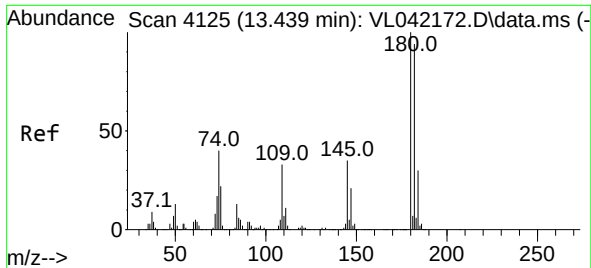
Reviewed By :Semsettin Yesilyurt 04/09/2025
Supervised By :Mahesh Dadoda 04/09/2025



#80
Naphthalene,2-methyl-
Concen: 10.723 ppbv
RT: 14.475 min Scan# 4445
Delta R.T. 0.019 min
Lab File: VL042253.D
Acq: 08 Apr 2025 08:39

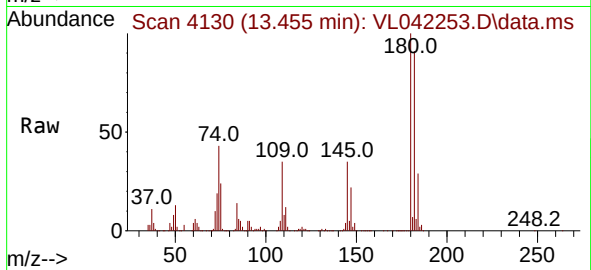
Tgt Ion:142 Resp: 457943
Ion Ratio Lower Upper
142 100
141 85.5 66.3 99.5
115 39.3 31.6 47.4





#81
1,2,4-Trichlorobenzene
Concen: 10.592 ppbv
RT: 13.455 min Scan# 41
Delta R.T. 0.016 min
Lab File: VL042253.D
Acq: 08 Apr 2025 08:39

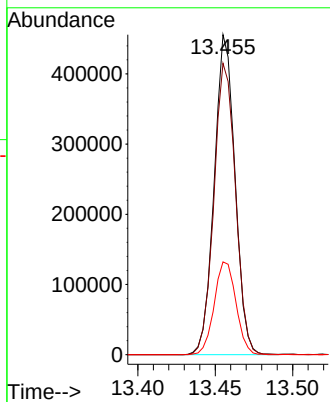
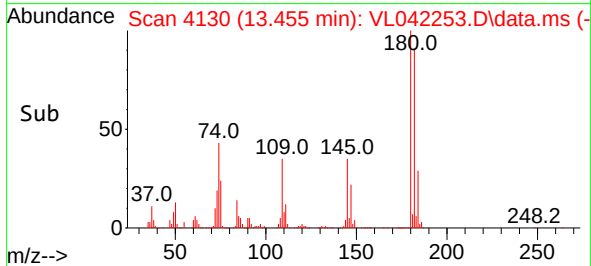
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010



Tgt Ion:180 Resp: 425460
Ion Ratio Lower Upper
180 100
182 94.6 75.1 112.7
184 30.4 24.4 36.6

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 04/09/2025
Supervised By :Mahesh Dadoda 04/09/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040825\
 Data File : VL042253.D
 Acq On : 08 Apr 2025 08:39
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 LabSampleId :
 VSTDCCC010

Quant Time: Apr 09 01:50:44 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri Mar 28 02:00:52 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	103	0.02
2 T	Dichlorodifluoromethane	1.476	1.419	3.9	104	0.00
3	Chlorodifluoromethane	1.508	1.506	0.1	107	0.00
4	Chloromethane	0.603	0.587	2.7	106	0.00
5 T	Vinyl Chloride	0.639	0.552	13.6	104	0.00
6 T	Bromomethane	0.273	0.248	9.2	100	0.00
7	Chloroethane	0.242	0.223	7.9	101	0.00
8 T	Dichlorotetrafluoroethane	1.257	1.201	4.5	102	0.00
9 T	Propene	0.691	0.560	19.0	88	0.00
10 T	Heptane	1.839	1.736	5.6	100	0.04
11 T	Trichlorofluoromethane	1.437	1.367	4.9	105	0.00
12 T	1,1,2-Trichlorotrifluoroeth	1.181	1.059	10.3	97	0.01
13	Ethanol	0.065	0.031#	52.3#	111	0.00
14 T	Bromoethene	0.452	0.382	15.5	94	0.01
15 T	Acetone	1.399	1.213	13.3	112	0.00
16 T	1,3-Butadiene	0.683	0.590	13.6	106	0.00
17	tert-Butyl alcohol	1.742	1.370	21.4	87	0.01
18 T	1,1-Dichloroethene	0.552	0.464	15.9	95	0.01
19 T	Isopropyl Alcohol	0.789	0.683	13.4	100	0.00
20 T	Methylene Chloride	0.521	0.408	21.7	96	0.01
21 T	Allyl Chloride	0.986	0.847	14.1	97	0.02
22 T	trans-1,2-Dichloroethene	0.638	0.551	13.6	96	0.02
23 T	Vinyl Acetate	0.605	0.503	16.9	104	0.02
24 T	1,1-Dichloroethane	1.183	1.114	5.8	102	0.02
25 T	Ethyl Acetate	3.630	3.522	3.0	105	0.02
26 T	Hexane	1.402	1.336	4.7	103	0.02
27 T	Carbon Disulfide	1.503	1.317	12.4	95	0.01
28 T	Methyl tert-Butyl Ether	0.873	0.705	19.2	87	0.02
29 T	Chloroform	2.052	2.115	-3.1	113	0.02
30 T	Cyclohexane	1.217	1.075	11.7	95	0.03
31 T	cis-1,2-Dichloroethene	1.423	1.295	9.0	97	0.02
32 T	1,1,1-Trichloroethane	2.349	2.094	10.9	105	0.02
33 I	1,4-Difluorobenzene	1.000	1.000	0.0	91	0.03
34 T	2-Butanone	0.725	0.757	-4.4	103	0.02
35 T	Carbon Tetrachloride	0.781	0.854	-9.3	111	0.03
36 T	Benzene	0.991	1.038	-4.7	101	0.03
37 T	1,2-Dichloroethane	0.568	0.631	-11.1	107	0.02
38 T	Trichloroethene	0.414	0.415	-0.2	101	0.03
39 T	1,2-Dichloropropane	0.361	0.379	-5.0	103	0.03
40 T	1,4-Dioxane	0.192	0.180	6.3	97	0.04
41 T	Tetrahydrofuran	0.418	0.421	-0.7	96	0.02
42 T	Bromodichloromethane	0.782	0.879	-12.4	104	0.03
43	Methyl Methacrylate	0.420	0.390	7.1	88	0.04
44 T	2,2,4-Trimethylpentane	1.675	1.790	-6.9	101	0.03
45 T	t-1,3-Dichloropropene	0.450	0.373	17.1	77	0.05
46 T	cis-1,3-Dichloropropene	0.552	0.490	11.2	81	0.04
47 T	1,1,2-Trichloroethane	0.382	0.420	-9.9	105	0.04
48 T	Dibromochloromethane	0.647	0.697	-7.7	100	0.04

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040825\
 Data File : VL042253.D
 Acq On : 08 Apr 2025 08:39
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 LabSampleId :
 VSTDCCC010

Quant Time: Apr 09 01:50:44 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri Mar 28 02:00:52 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	0.581	0.604	-4.0	94	0.03
50 T	4-Methyl-2-Pentanone	1.149	1.094	4.8	97	0.04
51 T	2-Hexanone	0.944	0.874	7.4	94	0.03
52 T	Tetrachloroethene	0.393	0.348	11.5	93	0.03
53 T	Toluene	1.175	1.158	1.4	94	0.04
54 T	1,2-Dibromoethane	0.532	0.567	-6.6	102	0.03
55 I	Chlorobenzene-d5	1.000	1.000	0.0	86	0.03
56	1,1,1,2-Tetrachloroethane	0.550	0.641	-16.5	108	0.03
57 T	Chlorobenzene	0.949	1.082	-14.0	106	0.03
58 T	Ethyl Benzene	1.776	1.861	-4.8	96	0.03
59 T	m/p-Xylene	1.418	1.579	-11.4	103	0.02
60 T	o-Xylene	1.422	1.558	-9.6	101	0.02
61 T	Styrene	0.703	0.701	0.3	88	0.03
62	Isopropylbenzene	2.126	2.336	-9.9	102	0.02
63 T	1,1,2,2-Tetrachloroethane	0.864	1.031	-19.3	112	0.02
64	n-propylbenzene	0.547	0.626	-14.4	108	0.02
65	tert-Butylbenzene	1.966	2.115	-7.6	105	0.02
66 T	Benzyl Chloride	0.209	0.146	30.1#	62	0.02
67	sec-Butylbenzene	2.733	3.005	-10.0	108	0.02
68 S	1-Bromo-4-Fluorobenzene	0.821	0.820	0.1	87	0.02
69	p-Isopropyltoluene	2.354	2.561	-8.8	106	0.02
70	n-Butylbenzene	2.407	2.672	-11.0	108	0.02
71	2-Chlorotoluene	1.650	1.805	-9.4	101	0.02
72 T	4-Ethyltoluene	1.770	1.981	-11.9	105	0.02
73 T	1,3,5-Trimethylbenzene	1.546	1.713	-10.8	106	0.02
74 T	1,2,4-Trimethylbenzene	1.781	1.899	-6.6	108	0.02
75 T	1,3-Dichlorobenzene	0.977	1.132	-15.9	110	0.02
76 T	1,4-Dichlorobenzene	0.972	1.131	-16.4	110	0.02
77 T	1,2-Dichlorobenzene	0.951	1.126	-18.4	114	0.02
78 T	Hexachloro-1,3-Butadiene	0.968	0.893	7.7	96	0.02
79 T	Naphthalene	1.948	2.164	-11.1	103	0.02
80 T	Naphthalene,2-methyl-	0.955	1.025	-7.3	89	0.02
81 T	1,2,4-Trichlorobenzene	0.899	0.952	-5.9	95	0.02

(#) = Out of Range

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



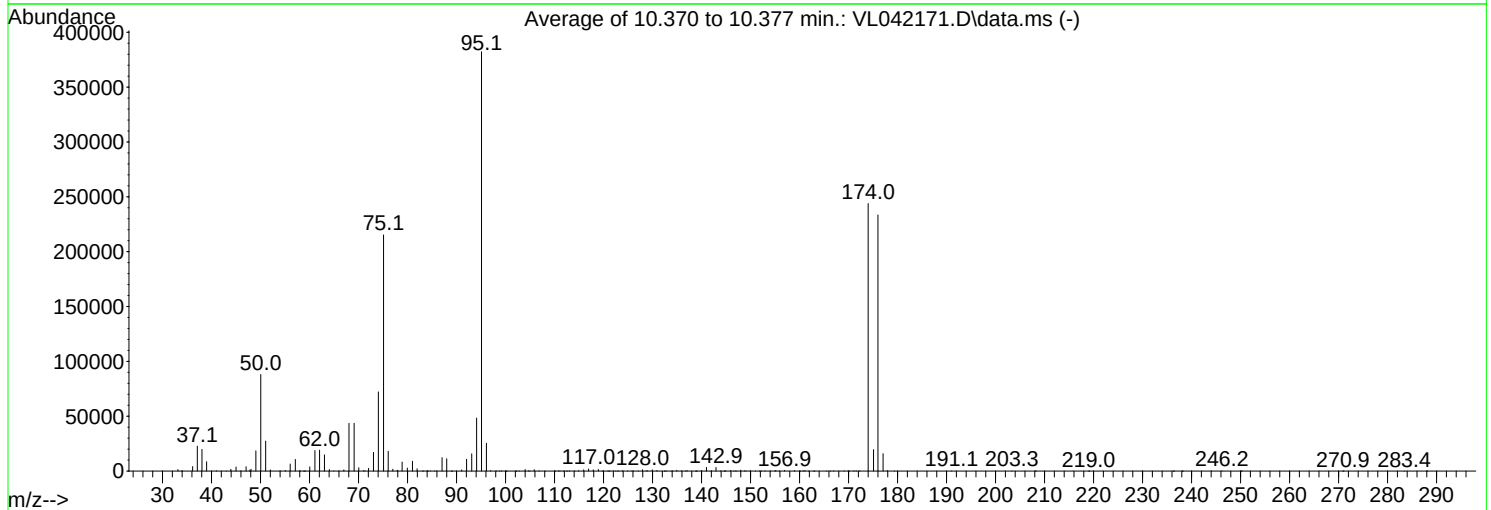
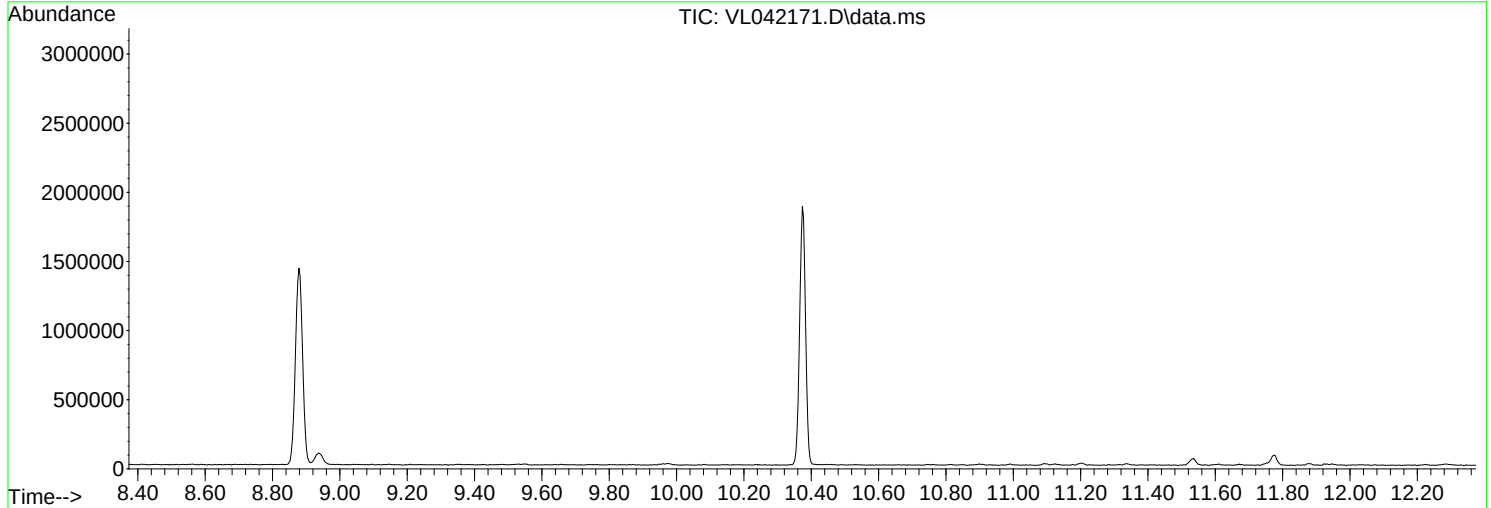
QC SAMPLE DATA

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
Data File : VL042171.D
Acq On : 27 Mar 2025 07:44
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\VL032725AIR.M
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
Last Update : Fri Mar 28 02:00:52 2025



AutoFind: Scans 3177, 3178, 3179; Background Corrected with Scan 3150

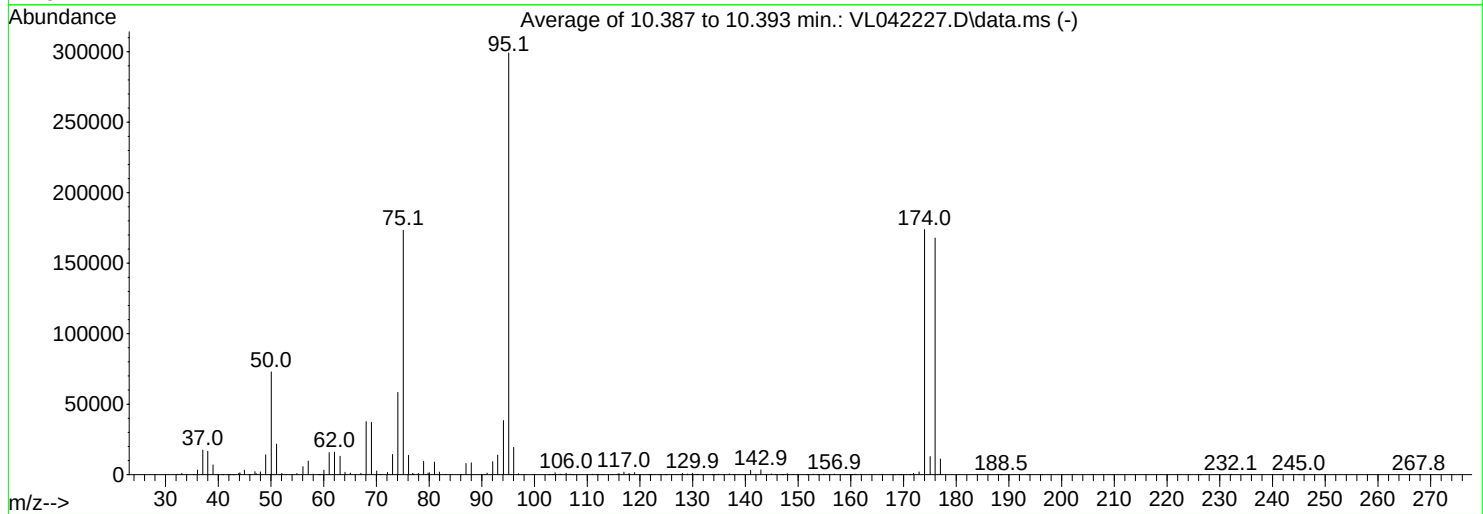
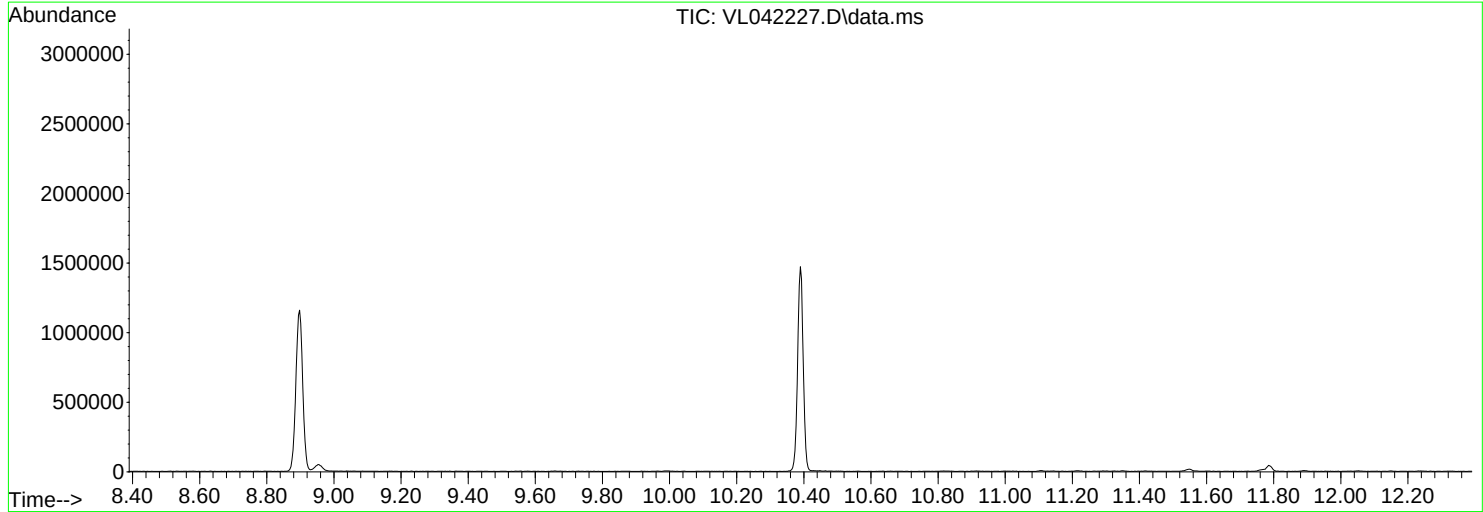
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	23.0	87995	PASS
75	95	30	66	56.3	215296	PASS
95	95	100	100	100.0	382268	PASS
96	95	5	9	6.6	25383	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	63.8	243904	PASS
175	174	4	9	8.0	19539	PASS
176	174	93	101	95.7	233493	PASS
177	176	5	9	6.8	15877	PASS

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040725\
Data File : VL042227.D
Acq On : 07 Apr 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\VL032725AIR.M
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
Last Update : Fri Mar 28 02:00:52 2025



AutoFind: Scans 3182, 3183, 3184; Background Corrected with Scan 3165

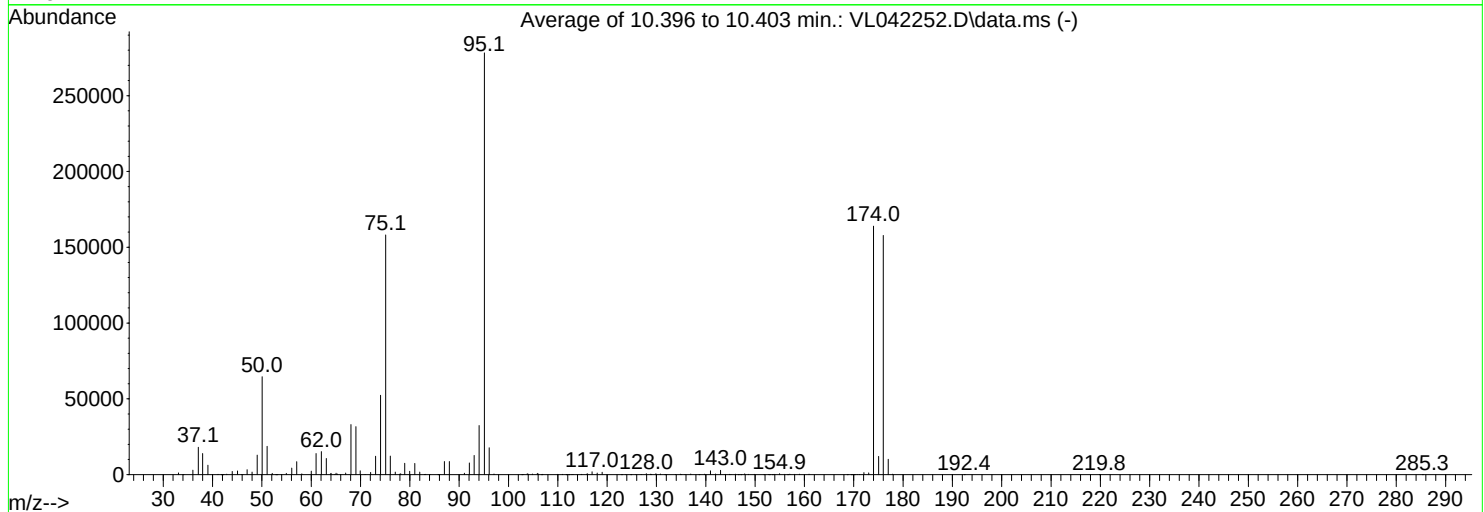
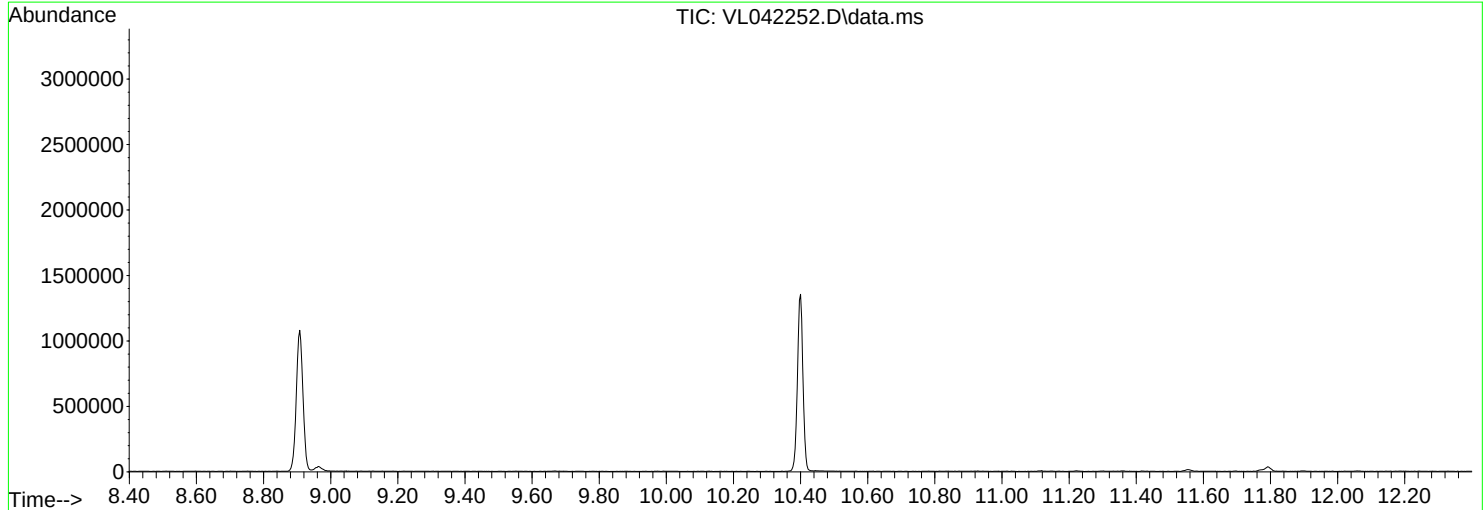
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	24.4	72901	PASS
75	95	30	66	57.9	173376	PASS
95	95	100	100	100.0	299221	PASS
96	95	5	9	6.4	19264	PASS
173	174	0.00	2	1.1	1915	PASS
174	95	50	120	58.1	173867	PASS
175	174	4	9	7.4	12863	PASS
176	174	93	101	96.5	167851	PASS
177	176	5	9	6.6	11132	PASS

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040825\
Data File : VL042252.D
Acq On : 08 Apr 2025 07:57
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\VL032725AIR.M
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
Last Update : Fri Mar 28 02:00:52 2025



AutoFind: Scans 3185, 3186, 3187; Background Corrected with Scan 3171

Target	Rel. to	Lower	Upper	Rel.	Raw	Result
Mass	Mass	Limit%	Limit%	Abn%	Abn	Pass/Fail
50	95	8	40	23.2	64653	PASS
75	95	30	66	56.8	158080	PASS
95	95	100	100	100.0	278272	PASS
96	95	5	9	6.4	17742	PASS
173	174	0.00	2	0.7	1215	PASS
174	95	50	120	58.9	163968	PASS
175	174	4	9	7.4	12075	PASS
176	174	93	101	96.2	157760	PASS
177	176	5	9	6.5	10188	PASS

Report of Analysis

Client:	Woodard & Curran	Date Collected:	
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	
Client Sample ID:	VL0407ABL01	SDG No.:	Q1725
Lab Sample ID:	VL0407ABL01	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400	Units:	mL

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042229.D	1		04/07/25 10:23	VL040725

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.21	1.04	U	1.04	2.47	ug/m3
74-87-3	Chloromethane	0.10	0.21	U	0.21	1.03	ug/m3
75-01-4	Vinyl Chloride	0.010	0.030	U	0.030	0.080	ug/m3
74-83-9	Bromomethane	0.14	0.54	U	0.54	1.94	ug/m3
75-00-3	Chloroethane	0.17	0.45	U	0.45	1.32	ug/m3
109-99-9	Tetrahydrofuran	0.13	0.38	U	0.38	1.47	ug/m3
75-69-4	Trichlorofluoromethane	0.16	0.90	U	0.90	2.81	ug/m3
76-13-1	1,1,2-Trichlorotrifluoroethane	0.16	1.23	U	1.23	3.83	ug/m3
76-14-2	Dichlorotetrafluoroethane	0.090	0.63	U	0.63	3.49	ug/m3
75-65-0	tert-Butyl alcohol	0.19	0.58	U	0.58	1.52	ug/m3
142-82-5	Heptane	0.11	0.45	U	0.45	2.05	ug/m3
75-35-4	1,1-Dichloroethene	0.14	0.56	U	0.56	1.98	ug/m3
67-64-1	Acetone	0.24	0.57	U	0.57	1.19	ug/m3
75-15-0	Carbon Disulfide	0.16	0.50	U	0.50	1.56	ug/m3
1634-04-4	Methyl tert-Butyl Ether	0.12	0.43	U	0.43	1.80	ug/m3
75-09-2	Methylene Chloride	0.19	0.66	U	0.66	1.74	ug/m3
156-60-5	trans-1,2-Dichloroethene	0.19	0.75	U	0.75	1.98	ug/m3
75-34-3	1,1-Dichloroethane	0.13	0.53	U	0.53	2.02	ug/m3
110-82-7	Cyclohexane	0.22	0.76	U	0.76	1.72	ug/m3
78-93-3	2-Butanone	0.12	0.35	U	0.35	1.47	ug/m3
56-23-5	Carbon Tetrachloride	0.010	0.060	U	0.060	0.19	ug/m3
156-59-2	cis-1,2-Dichloroethene	0.090	0.36	U	0.36	1.98	ug/m3
67-66-3	Chloroform	0.080	0.39	U	0.39	2.44	ug/m3
71-55-6	1,1,1-Trichloroethane	0.010	0.050	U	0.050	0.16	ug/m3
540-84-1	2,2,4-Trimethylpentane	0.10	0.47	U	0.47	2.34	ug/m3
71-43-2	Benzene	0.090	0.29	U	0.29	1.60	ug/m3
107-06-2	1,2-Dichloroethane	0.090	0.36	U	0.36	2.02	ug/m3
79-01-6	Trichloroethene	0.020	0.11	U	0.11	0.16	ug/m3
78-87-5	1,2-Dichloropropane	0.11	0.51	U	0.51	2.31	ug/m3
75-27-4	Bromodichloromethane	0.080	0.54	U	0.54	3.35	ug/m3
108-10-1	4-Methyl-2-Pentanone	0.090	0.37	U	0.37	2.05	ug/m3
108-88-3	Toluene	0.11	0.41	U	0.41	1.88	ug/m3
10061-02-6	t-1,3-Dichloropropene	0.060	0.27	U	0.27	2.27	ug/m3
10061-01-5	cis-1,3-Dichloropropene	0.060	0.27	U	0.27	2.27	ug/m3
79-00-5	1,1,2-Trichloroethane	0.070	0.38	U	0.38	2.73	ug/m3

Report of Analysis

Client:	Woodard & Curran	Date Collected:	
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	
Client Sample ID:	VL0407ABL01	SDG No.:	Q1725
Lab Sample ID:	VL0407ABL01	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400	Units:	mL

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042229.D	1		04/07/25 10:23	VL040725

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
124-48-1	Dibromochloromethane	0.070	0.60	U	0.60	4.26	ug/m3
106-93-4	1,2-Dibromoethane	0.070	0.54	U	0.54	0.77	ug/m3
127-18-4	Tetrachloroethene	0.020	0.14	U	0.14	0.20	ug/m3
108-90-7	Chlorobenzene	0.080	0.37	U	0.37	2.30	ug/m3
100-41-4	Ethyl Benzene	0.12	0.52	U	0.52	2.17	ug/m3
179601-23-1	m/p-Xylene	0.21	0.91	U	0.91	4.34	ug/m3
95-47-6	o-Xylene	0.12	0.52	U	0.52	2.17	ug/m3
100-42-5	Styrene	0.11	0.47	U	0.47	2.13	ug/m3
75-25-2	Bromoform	0.060	0.62	U	0.62	5.17	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	0.010	0.070	U	0.070	0.21	ug/m3
95-49-8	2-Chlorotoluene	0.11	0.57	U	0.57	2.59	ug/m3
108-67-8	1,3,5-Trimethylbenzene	0.11	0.54	U	0.54	2.46	ug/m3
95-63-6	1,2,4-Trimethylbenzene	0.080	0.39	U	0.39	2.46	ug/m3
541-73-1	1,3-Dichlorobenzene	0.080	0.48	U	0.48	3.01	ug/m3
106-46-7	1,4-Dichlorobenzene	0.050	0.30	U	0.30	3.01	ug/m3
95-50-1	1,2-Dichlorobenzene	0.080	0.48	U	0.48	3.01	ug/m3
120-82-1	1,2,4-Trichlorobenzene	0.090	0.67	U	0.67	3.71	ug/m3
87-68-3	Hexachloro-1,3-Butadiene	0.090	0.96	U	0.96	5.33	ug/m3
106-99-0	1,3-Butadiene	0.13	0.29	U	0.29	1.11	ug/m3
91-20-3	Naphthalene	0.080	0.42	U	0.42	0.52	ug/m3
622-96-8	4-Ethyltoluene	0.12	0.59	U	0.59	2.46	ug/m3
110-54-3	Hexane	0.11	0.39	U	0.39	1.76	ug/m3
107-05-1	Allyl Chloride	0.15	0.47	U	0.47	1.57	ug/m3
123-91-1	1,4-Dioxane	0.21	0.76	U	0.76	1.80	ug/m3
80-62-6	Methyl Methacrylate	0.090	0.37	U	0.37	2.05	ug/m3
SURROGATES							
460-00-4	1-Bromo-4-Fluorobenzene	9.40			70 (65) - 130 (135)	94%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	196000		2.8			
540-36-3	1,4-Difluorobenzene	527000		3.978			
3114-55-4	Chlorobenzene-d5	464000		8.901			

Report of Analysis

Client:	Woodard & Curran	Date Collected:	
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	
Client Sample ID:	VL0407ABL01	SDG No.:	Q1725
Lab Sample ID:	VL0407ABL01	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400	Units:	mL

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042229.D	1		04/07/25 10:23	VL040725

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units

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\VL040725\
 Data File : VL042229.D
 Acq On : 07 Apr 2025 10:23
 Operator : SY/MD
 Sample : VL0407ABL01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0407ABL01

Quant Time: Apr 08 01:29:19 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri Mar 28 02:00:52 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.800	49	195732	10.000	ppbv	0.02
33) 1,4-Difluorobenzene	3.978	114	527491	10.000	ppbv	0.03
55) Chlorobenzene-d5	8.901	117	463741	10.000	ppbv	0.03

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.393	95	359295	9.435	ppbv	0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	94.300%

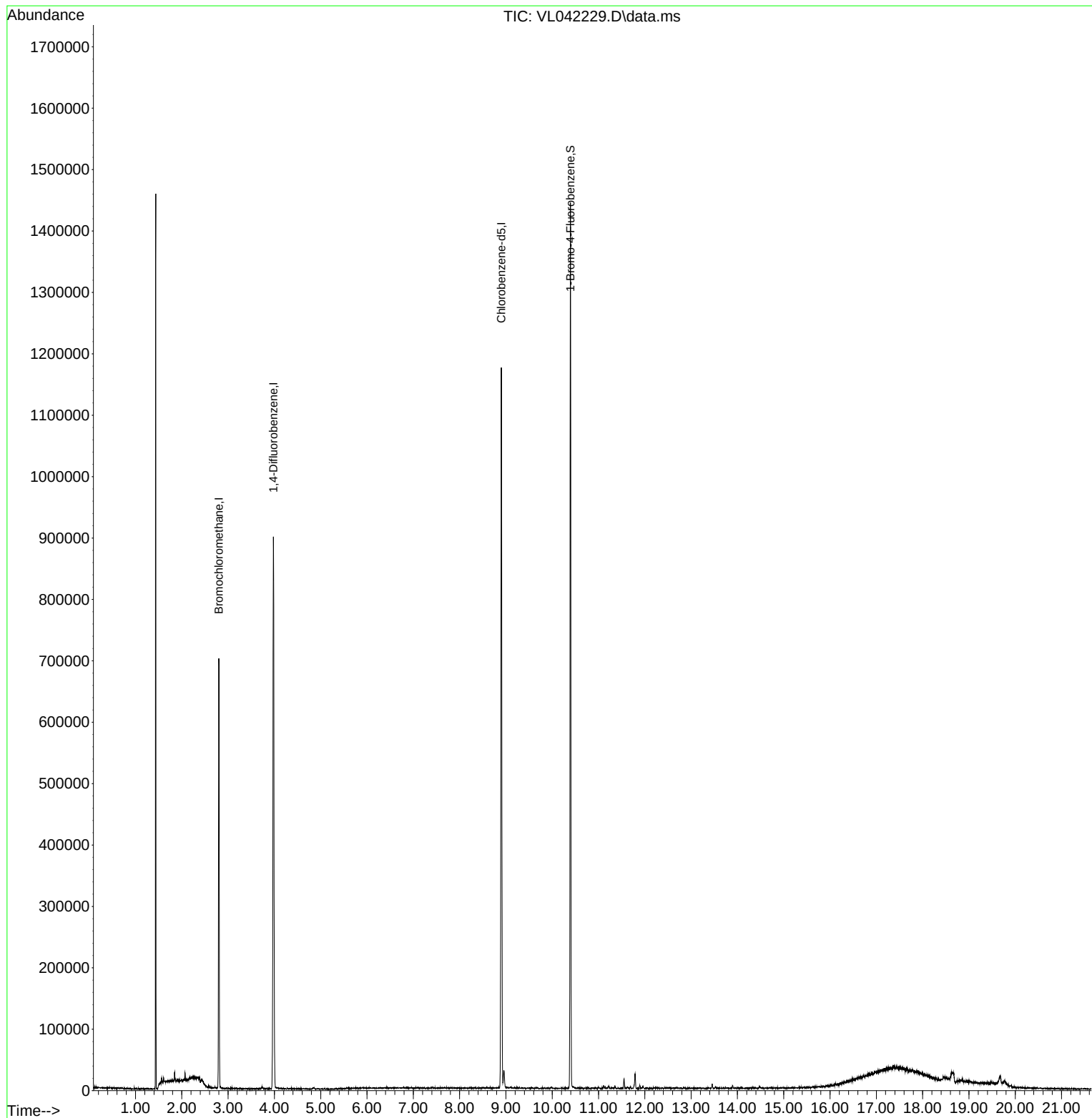
Target Compounds	Qvalue

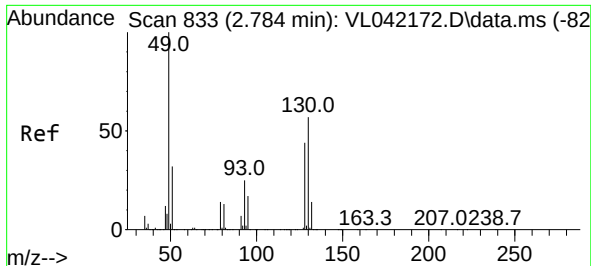
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040725\
Data File : VL042229.D
Acq On : 07 Apr 2025 10:23
Operator : SY/MD
Sample : VL0407ABL01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VL0407ABL01

Quant Time: Apr 08 01:29:19 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Fri Mar 28 02:00:52 2025
Response via : Initial Calibration

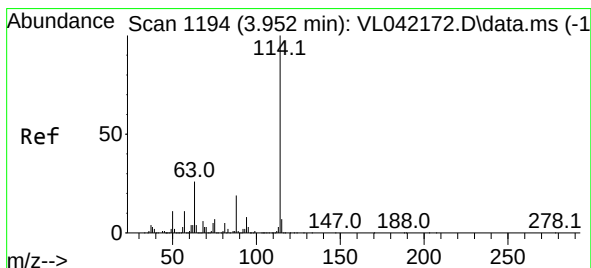
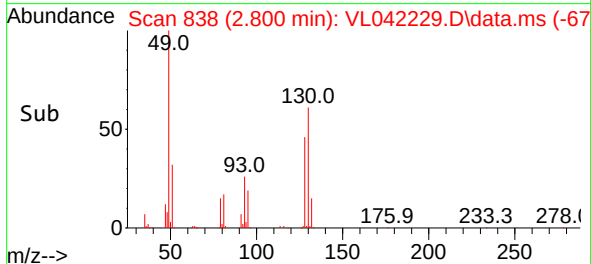
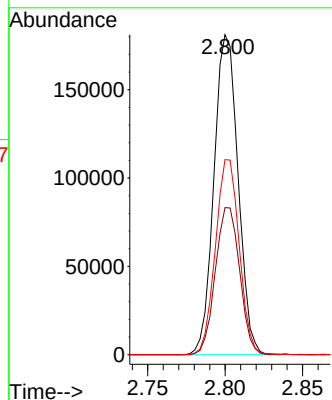
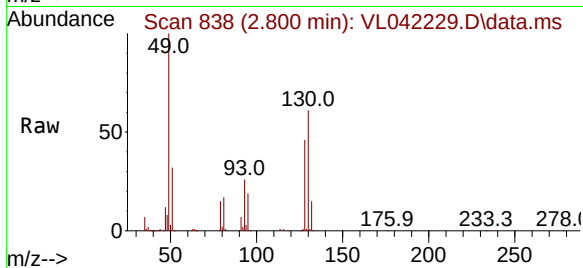




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.800 min Scan# 81
Delta R.T. 0.016 min
Lab File: VL042229.D
Acq: 07 Apr 2025 10:23

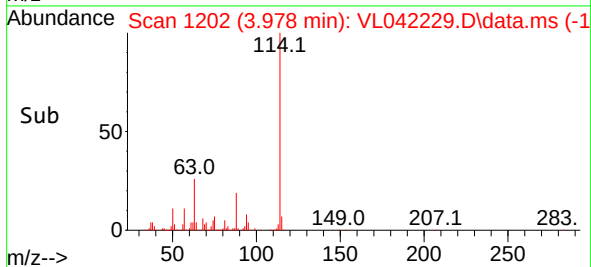
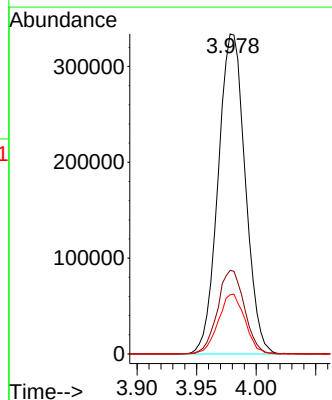
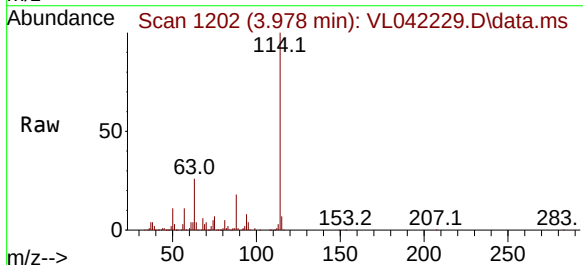
Instrument :
MSVOA_L
ClientSampleId :
VL0407ABL01

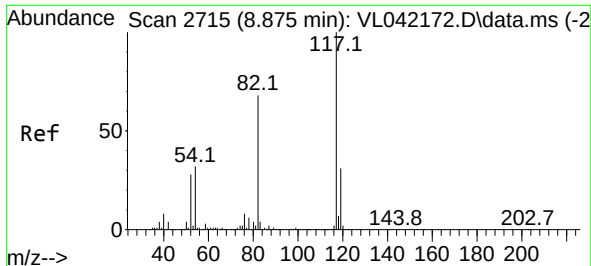
Tgt Ion: 49 Resp: 195732
Ion Ratio Lower Upper
49 100
128 46.4 22.9 68.5
130 60.3 28.8 86.4



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.978 min Scan# 1202
Delta R.T. 0.026 min
Lab File: VL042229.D
Acq: 07 Apr 2025 10:23

Tgt Ion: 114 Resp: 527491
Ion Ratio Lower Upper
114 100
63 26.0 20.7 31.1
88 18.4 15.0 22.4

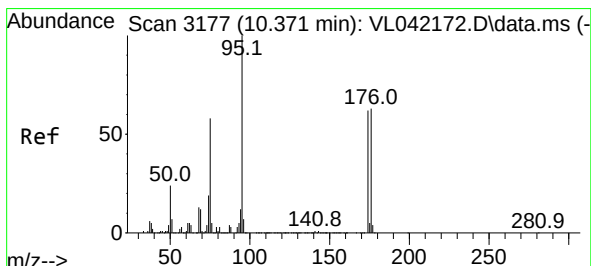
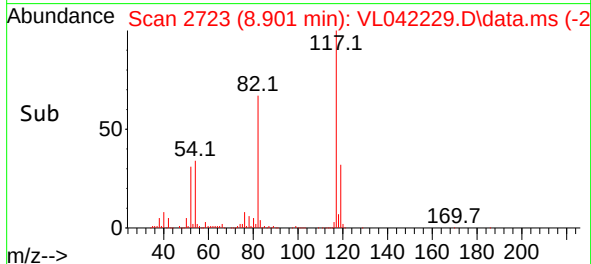
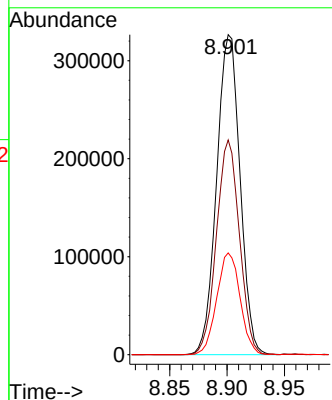
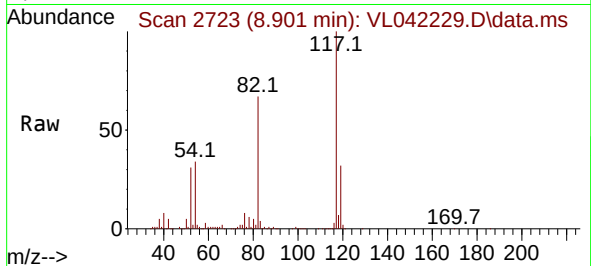




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.901 min Scan# 21
Delta R.T. 0.026 min
Lab File: VL042229.D
Acq: 07 Apr 2025 10:23

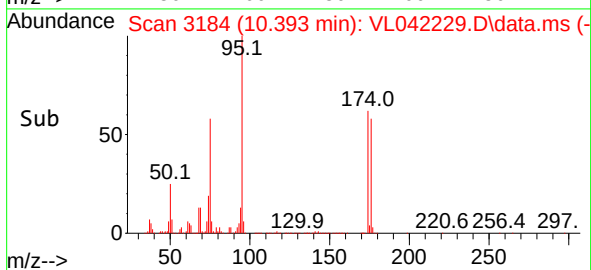
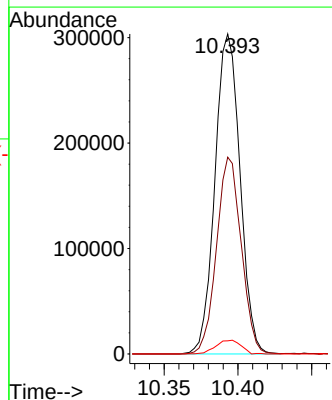
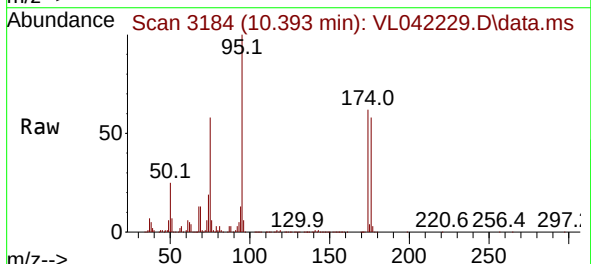
Instrument :
MSVOA_1
ClientSampleId :
VL0407ABL01

Tgt Ion:117 Resp: 463741
Ion Ratio Lower Upper
117 100
82 65.9 55.8 83.6
119 31.7 25.5 38.3



#68
1-Bromo-4-Fluorobenzene
Concen: 9.435 ppbv
RT: 10.393 min Scan# 3184
Delta R.T. 0.022 min
Lab File: VL042229.D
Acq: 07 Apr 2025 10:23

Tgt Ion: 95 Resp: 359295
Ion Ratio Lower Upper
95 100
174 60.7 50.6 76.0
175 4.3 3.8 5.6



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040725\
Data File : VL042229.D
Acq On : 07 Apr 2025 10:23
Operator : SY/MD
Sample : VL0407ABL01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VL0407ABL01

Integration Parameters: RTEINT.P

Integrator: RTE

Smoothing : ON

Filtering: 5

Sampling : 3

Min Area: 3 % of largest Peak

Start Thrs: 0.001

Max Peaks: 100

Stop Thrs : 0

Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >

Peak separation: 0

Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M

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

Signal : TIC: VL042229.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.437	412	417	421	rBV	1457987	850402	49.90%	13.128%
2	2.800	829	838	849	rBV	699542	751824	44.12%	11.606%
3	3.978	1189	1202	1215	rBV	899735	1417402	83.17%	21.881%
4	8.901	2711	2723	2733	rBV	1173349	1651424	96.91%	25.493%
5	8.953	2733	2739	2753	rVB3	28281	50265	2.95%	0.776%
6	10.393	3173	3184	3195	rBV	1442594	1704126	100.00%	26.307%
7	11.552	3535	3542	3547	rBV5	16094	18575	1.09%	0.287%
8	11.788	3602	3615	3623	rVB5	24380	33879	1.99%	0.523%

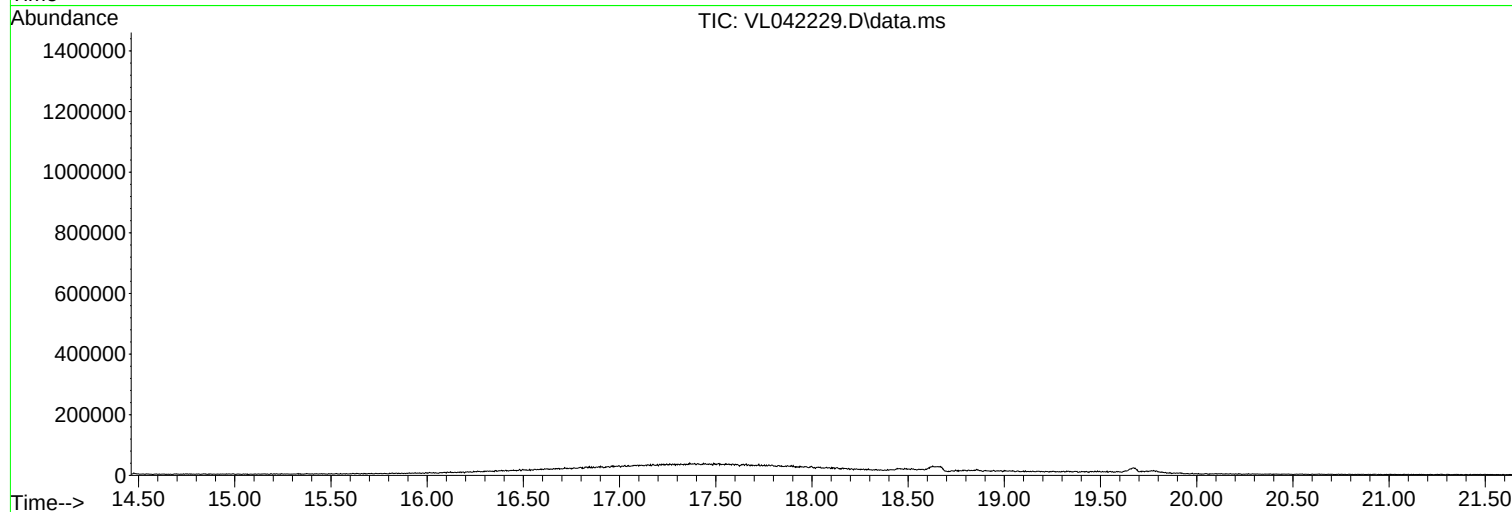
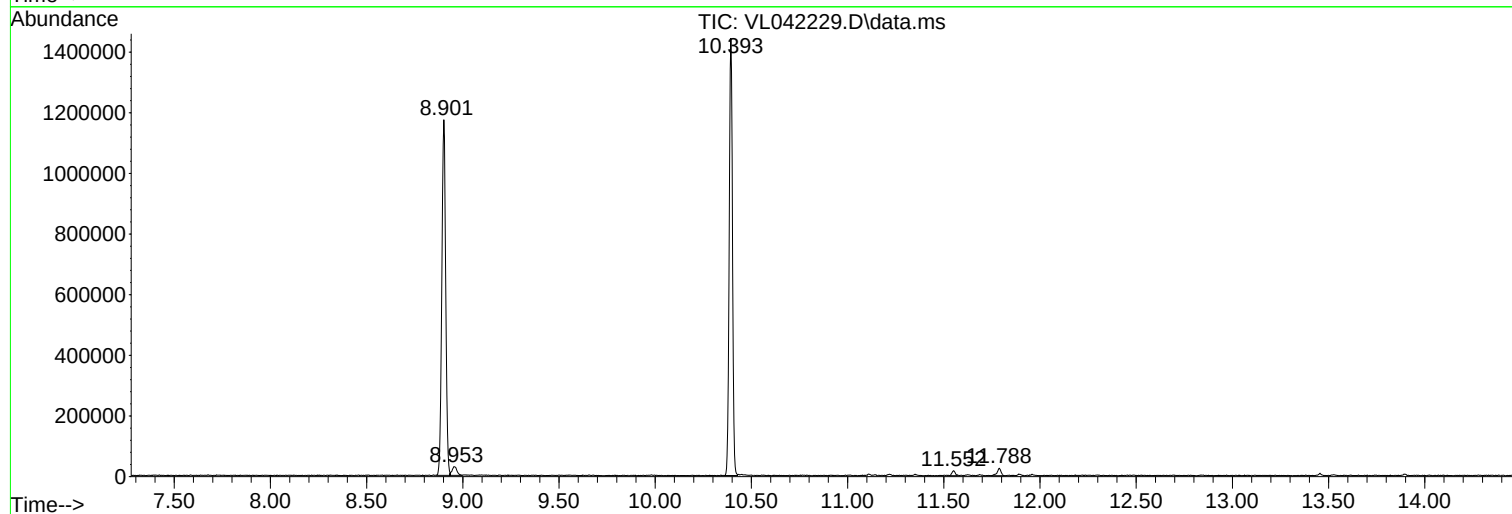
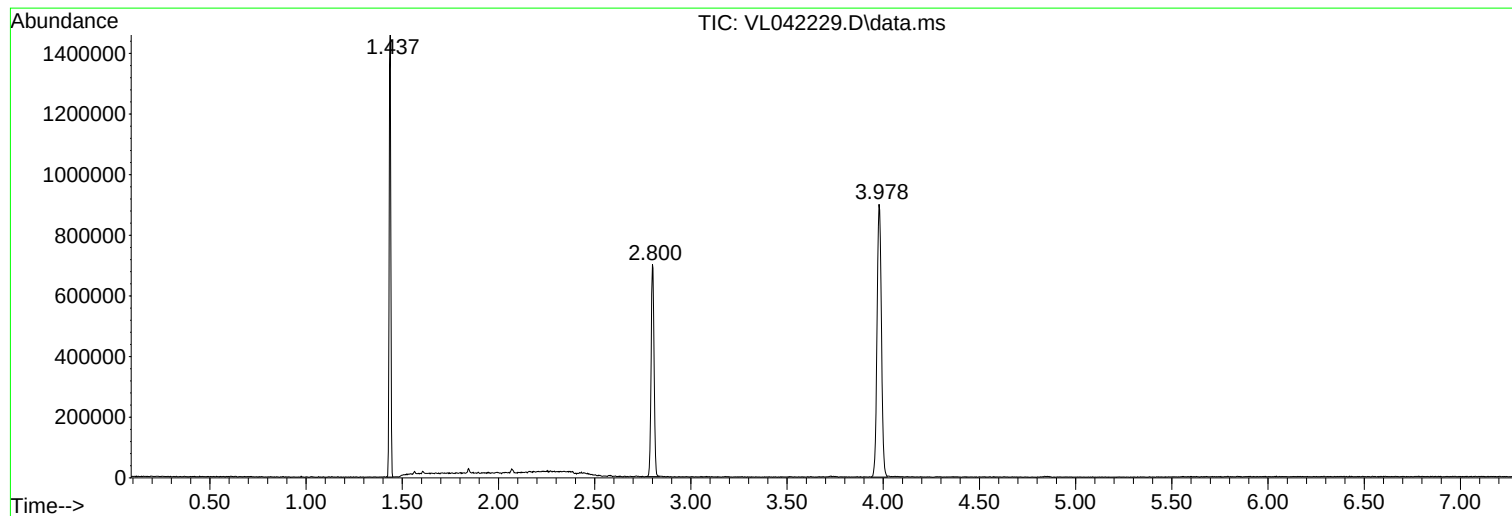
Sum of corrected areas: 6477897

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040725\
Data File : VL042229.D
Acq On : 07 Apr 2025 10:23
Operator : SY/MD
Sample : VL0407ABL01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VL0407ABL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040725\
Data File : VL042229.D
Acq On : 07 Apr 2025 10:23
Operator : SY/MD
Sample : VL0407ABL01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VL0407ABL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040725\
Data File : VL042229.D
Acq On : 07 Apr 2025 10:23
Operator : SY/MD
Sample : VL0407ABL01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VL0407ABL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

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

Report of Analysis

Client:	Woodard & Curran	Date Collected:	
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	
Client Sample ID:	VL0408ABL01	SDG No.:	Q1725
Lab Sample ID:	VL0408ABL01	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400	Units:	mL

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042254.D	1		04/08/25 09:22	VL040825

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.21	1.04	U	1.04	2.47	ug/m3
74-87-3	Chloromethane	0.10	0.21	U	0.21	1.03	ug/m3
75-01-4	Vinyl Chloride	0.010	0.030	U	0.030	0.080	ug/m3
74-83-9	Bromomethane	0.14	0.54	U	0.54	1.94	ug/m3
75-00-3	Chloroethane	0.17	0.45	U	0.45	1.32	ug/m3
109-99-9	Tetrahydrofuran	0.13	0.38	U	0.38	1.47	ug/m3
75-69-4	Trichlorofluoromethane	0.16	0.90	U	0.90	2.81	ug/m3
76-13-1	1,1,2-Trichlorotrifluoroethane	0.16	1.23	U	1.23	3.83	ug/m3
76-14-2	Dichlorotetrafluoroethane	0.090	0.63	U	0.63	3.49	ug/m3
75-65-0	tert-Butyl alcohol	0.19	0.58	U	0.58	1.52	ug/m3
142-82-5	Heptane	0.11	0.45	U	0.45	2.05	ug/m3
75-35-4	1,1-Dichloroethene	0.14	0.56	U	0.56	1.98	ug/m3
67-64-1	Acetone	0.24	0.57	U	0.57	1.19	ug/m3
75-15-0	Carbon Disulfide	0.16	0.50	U	0.50	1.56	ug/m3
1634-04-4	Methyl tert-Butyl Ether	0.12	0.43	U	0.43	1.80	ug/m3
75-09-2	Methylene Chloride	0.19	0.66	U	0.66	1.74	ug/m3
156-60-5	trans-1,2-Dichloroethene	0.19	0.75	U	0.75	1.98	ug/m3
75-34-3	1,1-Dichloroethane	0.13	0.53	U	0.53	2.02	ug/m3
110-82-7	Cyclohexane	0.22	0.76	U	0.76	1.72	ug/m3
78-93-3	2-Butanone	0.12	0.35	U	0.35	1.47	ug/m3
56-23-5	Carbon Tetrachloride	0.010	0.060	U	0.060	0.19	ug/m3
156-59-2	cis-1,2-Dichloroethene	0.090	0.36	U	0.36	1.98	ug/m3
67-66-3	Chloroform	0.080	0.39	U	0.39	2.44	ug/m3
71-55-6	1,1,1-Trichloroethane	0.010	0.050	U	0.050	0.16	ug/m3
540-84-1	2,2,4-Trimethylpentane	0.10	0.47	U	0.47	2.34	ug/m3
71-43-2	Benzene	0.090	0.29	U	0.29	1.60	ug/m3
107-06-2	1,2-Dichloroethane	0.090	0.36	U	0.36	2.02	ug/m3
79-01-6	Trichloroethene	0.020	0.11	U	0.11	0.16	ug/m3
78-87-5	1,2-Dichloropropane	0.11	0.51	U	0.51	2.31	ug/m3
75-27-4	Bromodichloromethane	0.080	0.54	U	0.54	3.35	ug/m3
108-10-1	4-Methyl-2-Pentanone	0.090	0.37	U	0.37	2.05	ug/m3
108-88-3	Toluene	0.11	0.41	U	0.41	1.88	ug/m3
10061-02-6	t-1,3-Dichloropropene	0.060	0.27	U	0.27	2.27	ug/m3
10061-01-5	cis-1,3-Dichloropropene	0.060	0.27	U	0.27	2.27	ug/m3
79-00-5	1,1,2-Trichloroethane	0.070	0.38	U	0.38	2.73	ug/m3

Report of Analysis

Client:	Woodard & Curran	Date Collected:	
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	
Client Sample ID:	VL0408ABL01	SDG No.:	Q1725
Lab Sample ID:	VL0408ABL01	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400	Units:	mL

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042254.D	1		04/08/25 09:22	VL040825

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
124-48-1	Dibromochloromethane	0.070	0.60	U	0.60	4.26	ug/m3
106-93-4	1,2-Dibromoethane	0.070	0.54	U	0.54	0.77	ug/m3
127-18-4	Tetrachloroethene	0.020	0.14	U	0.14	0.20	ug/m3
108-90-7	Chlorobenzene	0.080	0.37	U	0.37	2.30	ug/m3
100-41-4	Ethyl Benzene	0.12	0.52	U	0.52	2.17	ug/m3
179601-23-1	m/p-Xylene	0.21	0.91	U	0.91	4.34	ug/m3
95-47-6	o-Xylene	0.12	0.52	U	0.52	2.17	ug/m3
100-42-5	Styrene	0.11	0.47	U	0.47	2.13	ug/m3
75-25-2	Bromoform	0.060	0.62	U	0.62	5.17	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	0.010	0.070	U	0.070	0.21	ug/m3
95-49-8	2-Chlorotoluene	0.11	0.57	U	0.57	2.59	ug/m3
108-67-8	1,3,5-Trimethylbenzene	0.11	0.54	U	0.54	2.46	ug/m3
95-63-6	1,2,4-Trimethylbenzene	0.080	0.39	U	0.39	2.46	ug/m3
541-73-1	1,3-Dichlorobenzene	0.080	0.48	U	0.48	3.01	ug/m3
106-46-7	1,4-Dichlorobenzene	0.050	0.30	U	0.30	3.01	ug/m3
95-50-1	1,2-Dichlorobenzene	0.080	0.48	U	0.48	3.01	ug/m3
120-82-1	1,2,4-Trichlorobenzene	0.090	0.67	U	0.67	3.71	ug/m3
87-68-3	Hexachloro-1,3-Butadiene	0.090	0.96	U	0.96	5.33	ug/m3
106-99-0	1,3-Butadiene	0.13	0.29	U	0.29	1.11	ug/m3
91-20-3	Naphthalene	0.080	0.42	U	0.42	0.52	ug/m3
622-96-8	4-Ethyltoluene	0.12	0.59	U	0.59	2.46	ug/m3
110-54-3	Hexane	0.11	0.39	U	0.39	1.76	ug/m3
107-05-1	Allyl Chloride	0.15	0.47	U	0.47	1.57	ug/m3
123-91-1	1,4-Dioxane	0.21	0.76	U	0.76	1.80	ug/m3
80-62-6	Methyl Methacrylate	0.090	0.37	U	0.37	2.05	ug/m3
SURROGATES							
460-00-4	1-Bromo-4-Fluorobenzene	9.50			70 (65) - 130 (135)	95%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	194000		2.8			
540-36-3	1,4-Difluorobenzene	507000		3.978			
3114-55-4	Chlorobenzene-d5	434000		8.901			

Report of Analysis

Client:	Woodard & Curran	Date Collected:	
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	
Client Sample ID:	VL0408ABL01	SDG No.:	Q1725
Lab Sample ID:	VL0408ABL01	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042254.D	1		04/08/25 09:22	VL040825

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units

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\VL040825\
 Data File : VL042254.D
 Acq On : 08 Apr 2025 09:22
 Operator : SY/MD
 Sample : VL0408ABL01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0408ABL01

Quant Time: Apr 09 01:51:36 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri Mar 28 02:00:52 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.800	49	194254	10.000	ppbv	0.02
33) 1,4-Difluorobenzene	3.978	114	507155	10.000	ppbv	0.03
55) Chlorobenzene-d5	8.901	117	433594	10.000	ppbv	0.03

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.393	95	337540	9.480	ppbv	0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	94.800%

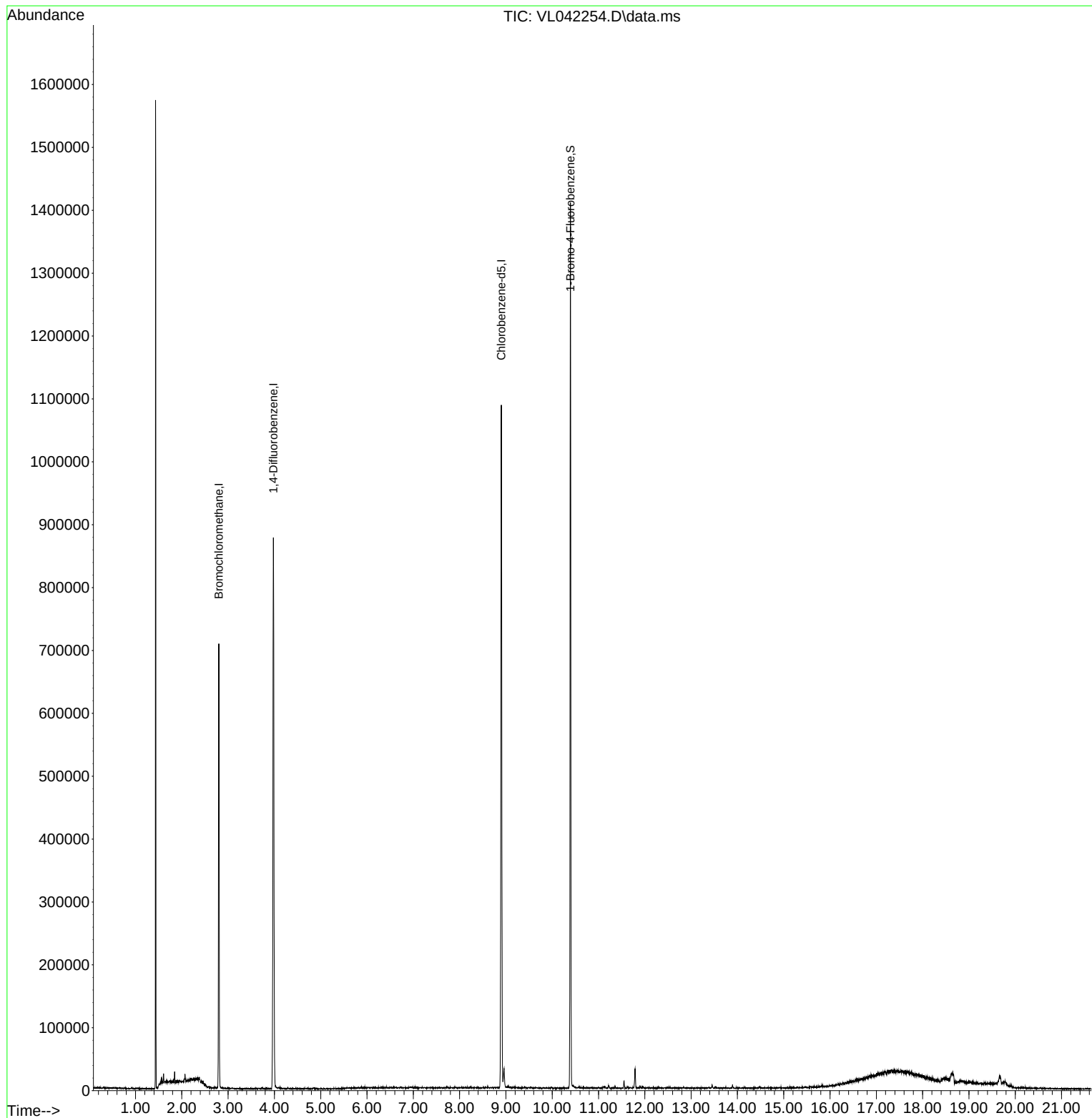
Target Compounds	Qvalue

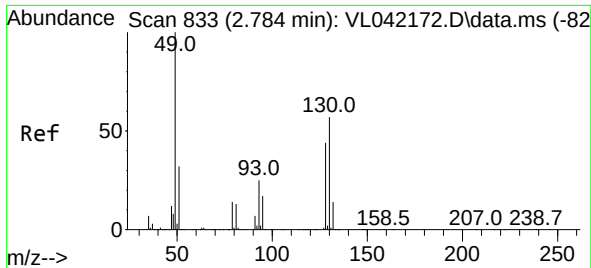
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040825\
Data File : VL042254.D
Acq On : 08 Apr 2025 09:22
Operator : SY/MD
Sample : VL0408ABL01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VL0408ABL01

Quant Time: Apr 09 01:51:36 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Fri Mar 28 02:00:52 2025
Response via : Initial Calibration

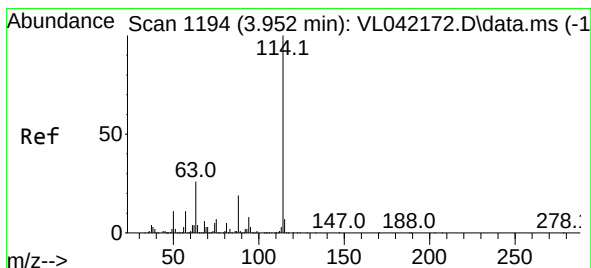
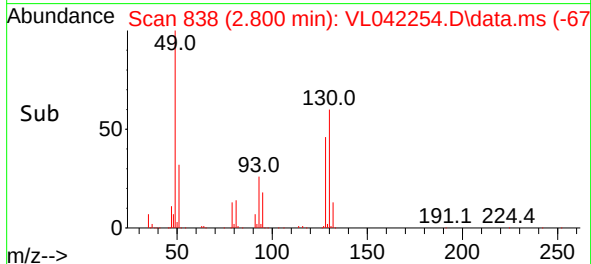
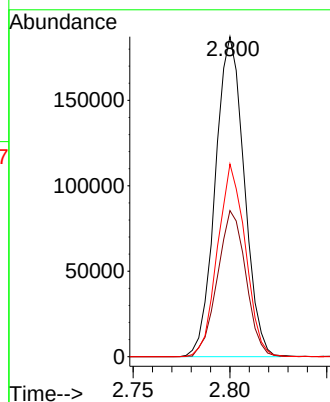
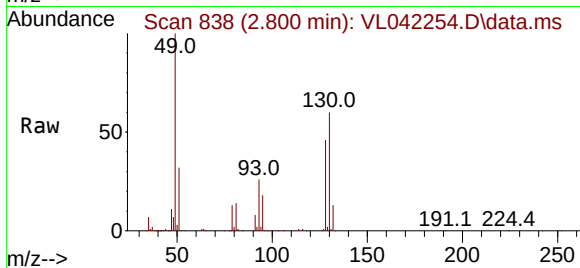




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 2.800 min Scan# 81
 Delta R.T. 0.016 min
 Lab File: VL042254.D
 Acq: 08 Apr 2025 09:22

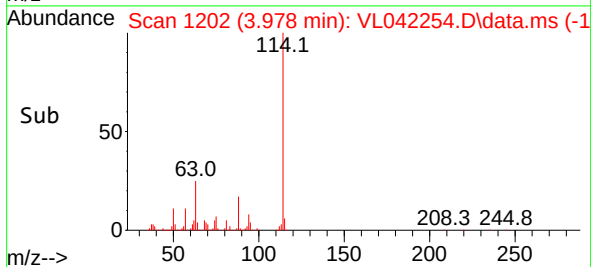
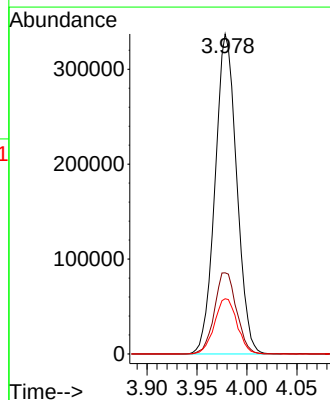
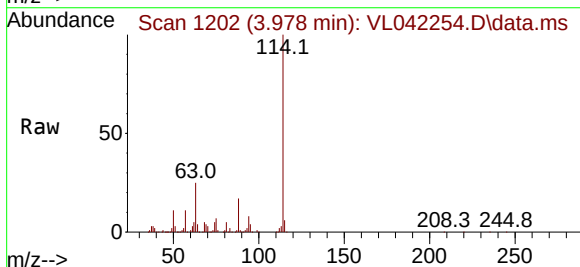
Instrument :
 MSVOA_1
 ClientSampleId :
 VL0408ABL01

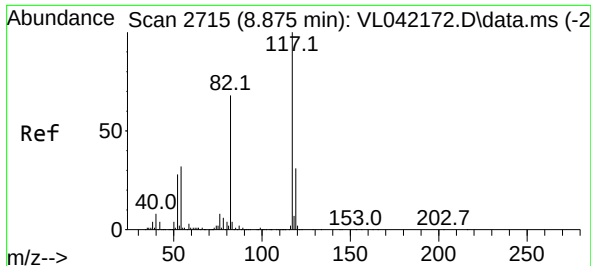
Tgt Ion: 49 Resp: 194254
 Ion Ratio Lower Upper
 49 100
 128 45.0 22.9 68.5
 130 58.0 28.8 86.4



#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 3.978 min Scan# 1202
 Delta R.T. 0.026 min
 Lab File: VL042254.D
 Acq: 08 Apr 2025 09:22

Tgt Ion: 114 Resp: 507155
 Ion Ratio Lower Upper
 114 100
 63 26.1 20.7 31.1
 88 18.1 15.0 22.4

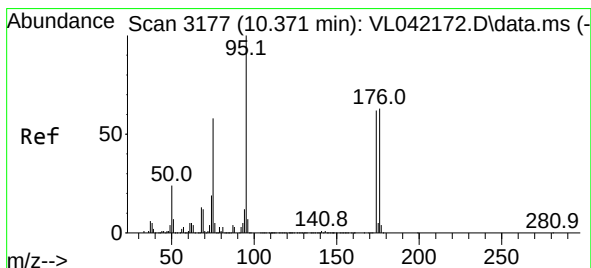
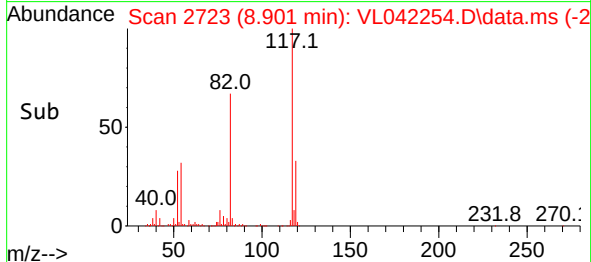
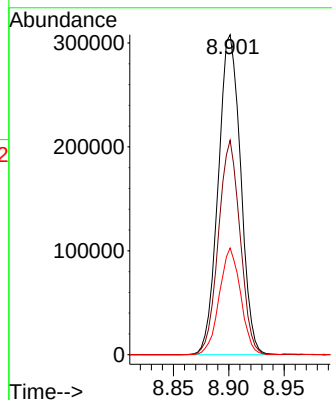
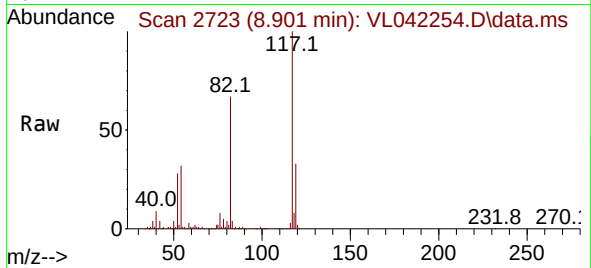




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.901 min Scan# 21
Delta R.T. 0.026 min
Lab File: VL042254.D
Acq: 08 Apr 2025 09:22

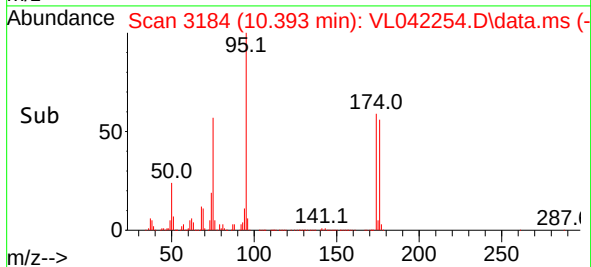
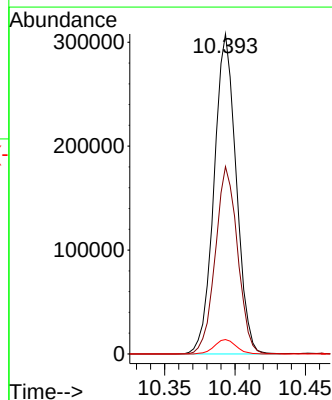
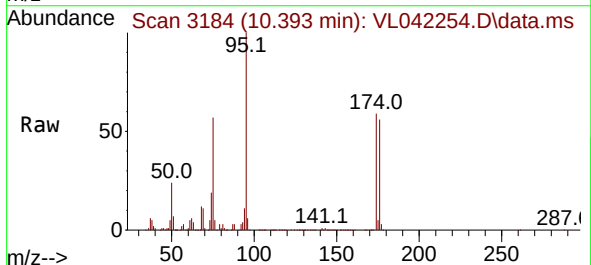
Instrument :
MSVOA_1
ClientSampleId :
VL0408ABL01

Tgt Ion:117 Resp: 433594
Ion Ratio Lower Upper
117 100
82 65.0 55.8 83.6
119 31.8 25.5 38.3



#68
1-Bromo-4-Fluorobenzene
Concen: 9.480 ppbv
RT: 10.393 min Scan# 3184
Delta R.T. 0.023 min
Lab File: VL042254.D
Acq: 08 Apr 2025 09:22

Tgt Ion: 95 Resp: 337540
Ion Ratio Lower Upper
95 100
174 58.8 50.6 76.0
175 4.4 3.8 5.6



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040825\
Data File : VL042254.D
Acq On : 08 Apr 2025 09:22
Operator : SY/MD
Sample : VL0408ABL01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VL0408ABL01

Integration Parameters: RTEINT.P

Integrator: RTE

Smoothing : ON

Filtering: 5

Sampling : 3

Min Area: 3 % of largest Peak

Start Thrs: 0.001

Max Peaks: 100

Stop Thrs : 0

Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >

Peak separation: 0

Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M

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

Signal : TIC: VL042254.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.434	412	416	421	rVB	1571406	917613	58.37%	14.819%
2	2.800	829	838	848	rBV	706460	728876	46.37%	11.771%
3	3.978	1190	1202	1218	rBV	877123	1353347	86.09%	21.856%
4	8.901	2709	2723	2734	rBV	1086189	1536263	97.73%	24.810%
5	8.959	2734	2741	2751	rVB3	30204	47706	3.03%	0.770%
6	10.393	3171	3184	3197	rBV	1408600	1571938	100.00%	25.387%
7	11.788	3606	3615	3621	rBV3	30454	36275	2.31%	0.586%

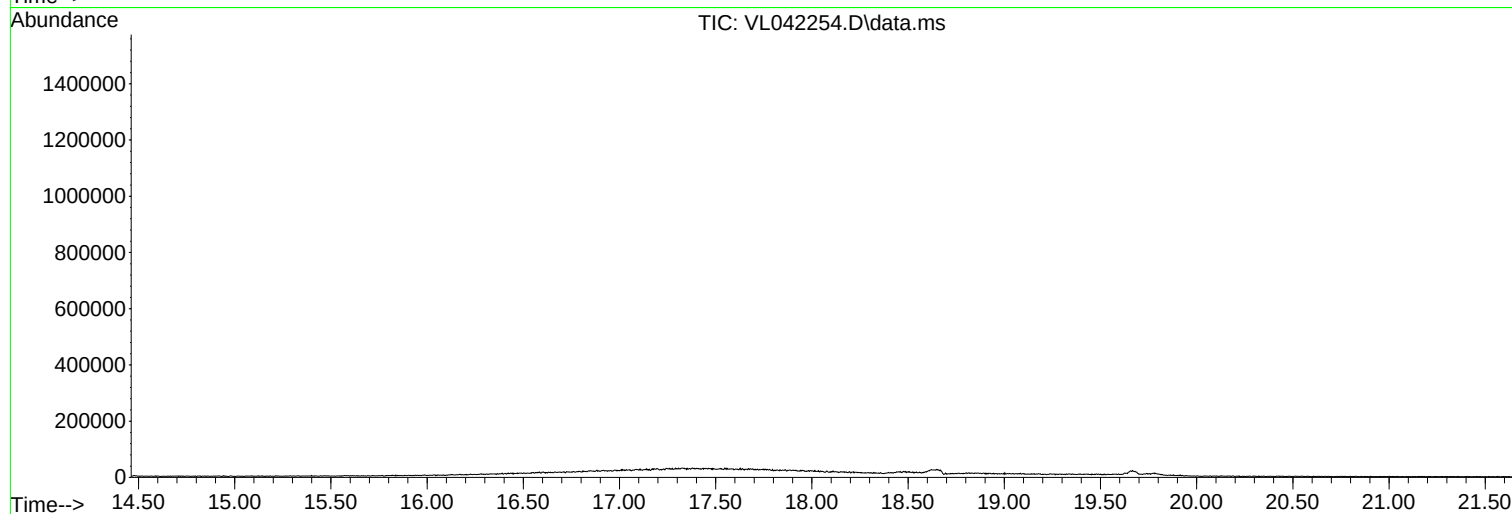
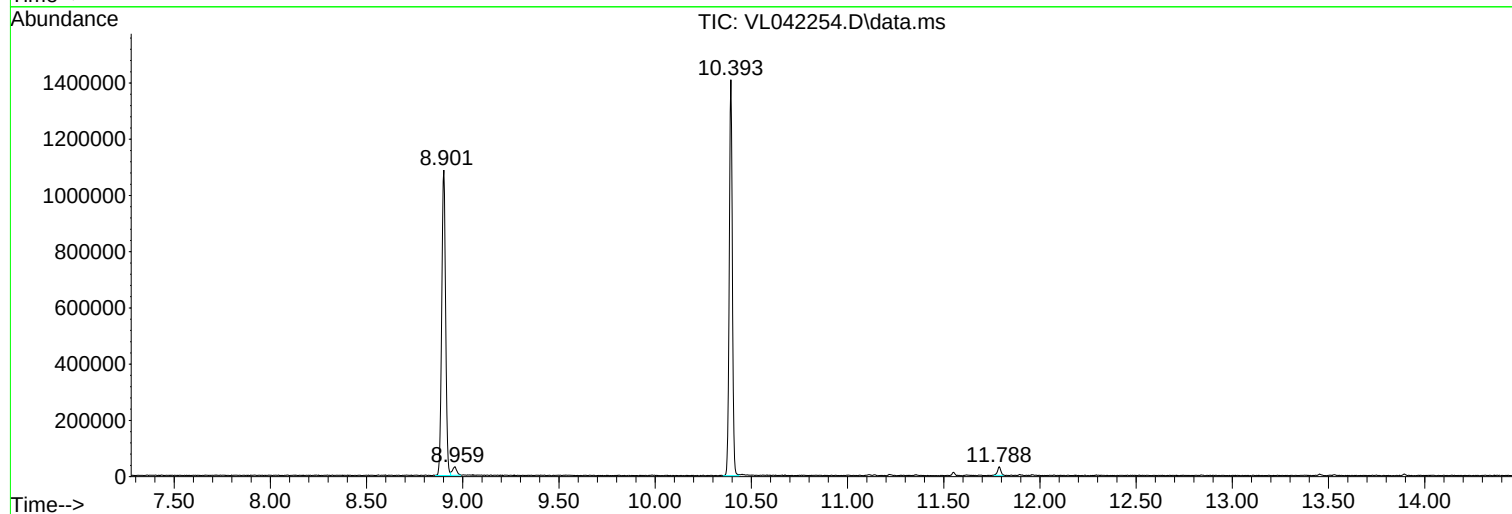
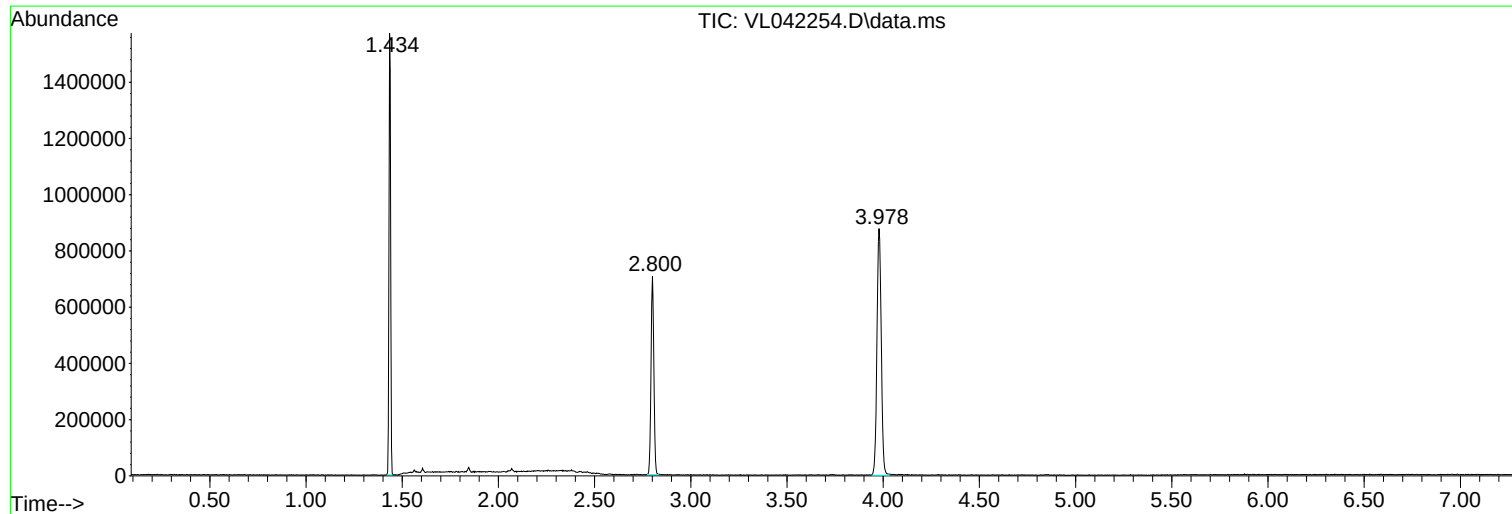
Sum of corrected areas: 6192018

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040825\
Data File : VL042254.D
Acq On : 08 Apr 2025 09:22
Operator : SY/MD
Sample : VL0408ABL01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VL0408ABL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040825\
Data File : VL042254.D
Acq On : 08 Apr 2025 09:22
Operator : SY/MD
Sample : VL0408ABL01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VL0408ABL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040825\
Data File : VL042254.D
Acq On : 08 Apr 2025 09:22
Operator : SY/MD
Sample : VL0408ABL01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VL0408ABL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

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

Report of Analysis

Client:	Woodard & Curran	Date Collected:	
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	
Client Sample ID:	VL0407ABS01	SDG No.:	Q1725
Lab Sample ID:	VL0407ABS01	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400	Units:	mL

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042230.D	1		04/07/25 11:09	VL040725

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	9.40	46.5		1.04	2.47	ug/m3
74-87-3	Chloromethane	8.90	18.4		0.21	1.03	ug/m3
75-01-4	Vinyl Chloride	8.00	20.4		0.030	0.080	ug/m3
74-83-9	Bromomethane	8.20	31.8		0.54	1.94	ug/m3
75-00-3	Chloroethane	8.90	23.5		0.45	1.32	ug/m3
109-99-9	Tetrahydrofuran	9.10	26.8		0.38	1.47	ug/m3
75-69-4	Trichlorofluoromethane	9.20	51.7		0.90	2.81	ug/m3
76-13-1	1,1,2-Trichlorotrifluoroethane	9.00	69.0		1.23	3.83	ug/m3
76-14-2	Dichlorotetrafluoroethane	9.30	65.0		0.63	3.49	ug/m3
75-65-0	tert-Butyl alcohol	7.90	23.9		0.58	1.52	ug/m3
142-82-5	Heptane	8.60	35.2		0.45	2.05	ug/m3
75-35-4	1,1-Dichloroethene	8.10	32.1		0.56	1.98	ug/m3
67-64-1	Acetone	8.30	19.7		0.57	1.19	ug/m3
75-15-0	Carbon Disulfide	8.70	27.1		0.50	1.56	ug/m3
1634-04-4	Methyl tert-Butyl Ether	8.30	29.9		0.43	1.80	ug/m3
75-09-2	Methylene Chloride	7.40	25.7		0.66	1.74	ug/m3
156-60-5	trans-1,2-Dichloroethene	8.30	32.9		0.75	1.98	ug/m3
75-34-3	1,1-Dichloroethane	9.20	37.2		0.53	2.02	ug/m3
110-82-7	Cyclohexane	8.50	29.3		0.76	1.72	ug/m3
78-93-3	2-Butanone	9.40	27.7		0.35	1.47	ug/m3
56-23-5	Carbon Tetrachloride	10.1	63.5		0.060	0.19	ug/m3
156-59-2	cis-1,2-Dichloroethene	8.90	35.3		0.36	1.98	ug/m3
67-66-3	Chloroform	9.80	47.9		0.39	2.44	ug/m3
71-55-6	1,1,1-Trichloroethane	8.70	47.5		0.050	0.16	ug/m3
540-84-1	2,2,4-Trimethylpentane	9.40	43.9		0.47	2.34	ug/m3
71-43-2	Benzene	9.40	30.0		0.29	1.60	ug/m3
107-06-2	1,2-Dichloroethane	10.4	42.1		0.36	2.02	ug/m3
79-01-6	Trichloroethene	9.20	49.4		0.11	0.16	ug/m3
78-87-5	1,2-Dichloropropane	9.40	43.4		0.51	2.31	ug/m3
75-27-4	Bromodichloromethane	10.4	69.7		0.54	3.35	ug/m3
108-10-1	4-Methyl-2-Pentanone	8.40	34.4		0.37	2.05	ug/m3
108-88-3	Toluene	9.00	33.9		0.41	1.88	ug/m3
10061-02-6	t-1,3-Dichloropropene	8.10	36.8		0.27	2.27	ug/m3
10061-01-5	cis-1,3-Dichloropropene	8.60	39.0		0.27	2.27	ug/m3
79-00-5	1,1,2-Trichloroethane	10.0	54.6		0.38	2.73	ug/m3

Report of Analysis

Client:	Woodard & Curran	Date Collected:	
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	
Client Sample ID:	VL0407ABS01	SDG No.:	Q1725
Lab Sample ID:	VL0407ABS01	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400	Units:	mL

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042230.D	1		04/07/25 11:09	VL040725

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
124-48-1	Dibromochloromethane	10.0	85.2		0.60	4.26	ug/m3
106-93-4	1,2-Dibromoethane	9.60	73.8		0.54	0.77	ug/m3
127-18-4	Tetrachloroethene	8.40	57.0		0.14	0.20	ug/m3
108-90-7	Chlorobenzene	10.2	47.0		0.37	2.30	ug/m3
100-41-4	Ethyl Benzene	9.80	42.6		0.52	2.17	ug/m3
179601-23-1	m/p-Xylene	20.4	88.6		0.91	4.34	ug/m3
95-47-6	o-Xylene	10.2	44.3		0.52	2.17	ug/m3
100-42-5	Styrene	9.60	40.9		0.47	2.13	ug/m3
75-25-2	Bromoform	9.80	101		0.62	5.17	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	10.8	74.2		0.070	0.21	ug/m3
95-49-8	2-Chlorotoluene	10.3	53.3		0.57	2.59	ug/m3
108-67-8	1,3,5-Trimethylbenzene	10.2	50.1		0.54	2.46	ug/m3
95-63-6	1,2,4-Trimethylbenzene	9.90	48.7		0.39	2.46	ug/m3
541-73-1	1,3-Dichlorobenzene	10.6	63.7		0.48	3.01	ug/m3
106-46-7	1,4-Dichlorobenzene	10.6	63.7		0.30	3.01	ug/m3
95-50-1	1,2-Dichlorobenzene	10.7	64.3		0.48	3.01	ug/m3
120-82-1	1,2,4-Trichlorobenzene	9.00	66.8		0.67	3.71	ug/m3
87-68-3	Hexachloro-1,3-Butadiene	8.20	87.5		0.96	5.33	ug/m3
106-99-0	1,3-Butadiene	8.10	17.9		0.29	1.11	ug/m3
91-20-3	Naphthalene	9.30	48.8		0.42	0.52	ug/m3
622-96-8	4-Ethyltoluene	10.3	50.6		0.59	2.46	ug/m3
110-54-3	Hexane	8.90	31.4		0.39	1.76	ug/m3
107-05-1	Allyl Chloride	8.60	26.9		0.47	1.57	ug/m3
123-91-1	1,4-Dioxane	8.40	30.3		0.76	1.80	ug/m3
80-62-6	Methyl Methacrylate	8.50	34.8		0.37	2.05	ug/m3

SURROGATES

460-00-4	1-Bromo-4-Fluorobenzene	10.2		70 (65) - 130 (135)	102%	SPK: 10

INTERNAL STANDARDS

74-97-5	Bromochloromethane	198000	2.8
540-36-3	1,4-Difluorobenzene	531000	3.978
3114-55-4	Chlorobenzene-d5	474000	8.901

Report of Analysis

Client:	Woodard & Curran	Date Collected:	
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	
Client Sample ID:	VL0407ABS01	SDG No.:	Q1725
Lab Sample ID:	VL0407ABS01	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042230.D	1		04/07/25 11:09	VL040725

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units

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\VL040725\
 Data File : VL042230.D
 Acq On : 07 Apr 2025 11:09
 Operator : SY/MD
 Sample : VL0407ABS01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0407ABS01

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 04/08/2025
 Supervised By :Mahesh Dadoda 04/09/2025

Quant Time: Apr 08 01:29:41 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2025

QLast Update : Fri Mar 28 02:00:52 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.800	49	197822	10.000	ppbv	0.02
33) 1,4-Difluorobenzene	3.978	114	531347	10.000	ppbv	0.03
55) Chlorobenzene-d5	8.901	117	473981	10.000	ppbv	0.03

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.393 95 398322 10.233 ppbv 0.02
 Spiked Amount 10.000 Range 65 - 135 Recovery = 102.300%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.502	85	273487	9.363	ppbv	100
3) Chlorodifluoromethane	1.479	51	276521	9.267	ppbv	97
4) Chloromethane	1.538	50	106766	8.944	ppbv	99
5) Vinyl Chloride	1.586	62	101600	8.032	ppbv	94
6) Bromomethane	1.674	94	44439	8.215	ppbv	98
7) Chloroethane	1.709	64	42458	8.861	ppbv	97
8) Dichlorotetrafluoroethane	1.560	85	230477	9.266	ppbv	94
9) Propene	1.489	41	106235	7.768	ppbv	97
10) Heptane	5.001	43	311035	8.550	ppbv	100
11) Trichlorofluoromethane	1.884	101	260770	9.175	ppbv	97
12) 1,1,2-Trichlorotrifluo...	2.149	101	210391	9.006	ppbv	96
13) Ethanol	1.729	45	5394	4.172	ppbv	97
14) Bromoethene	1.787	108	71737	8.016	ppbv	97
15) Acetone	1.842	43	230460	8.330	ppbv	96
16) 1,3-Butadiene	1.615	39	109306	8.090	ppbv	99
17) tert-Butyl alcohol	2.049	59	271487	7.879	ppbv	99
18) 1,1-Dichloroethene	2.042	96	88728	8.125	ppbv	95
19) Isopropyl Alcohol	1.894	45	129131	8.272	ppbv	98
20) Methylene Chloride	2.068	84	76153	7.391	ppbv	92
21) Allyl Chloride	2.104	41	167334	8.576	ppbv	98
22) trans-1,2-Dichloroethene	2.350	96	104449	8.275	ppbv	93
23) Vinyl Acetate	2.473	43	96391	8.050	ppbv #	97
24) 1,1-Dichloroethane	2.418	63	214121	9.152	ppbv	100
25) Ethyl Acetate	2.848	43	639210	8.902	ppbv	99
26) Hexane	2.839	57	246755	8.897	ppbv	100
27) Carbon Disulfide	2.159	76	258412	8.689	ppbv	96
28) Methyl tert-Butyl Ether	2.450	73	142610	8.259	ppbv	94
29) Chloroform	2.861	83	397517	9.793	ppbv	99
30) Cyclohexane	3.874	84	203521	8.451	ppbv	97
31) cis-1,2-Dichloroethene	2.732	61	249591	8.864	ppbv	98
32) 1,1,1-Trichloroethane	3.386	97	406124	8.739	ppbv	98
34) 2-Butanone	2.570	43	362939	9.420	ppbv	99
35) Carbon Tetrachloride	3.781	117	418362	10.079	ppbv	99
36) Benzene	3.674	78	494216	9.382	ppbv	99
37) 1,2-Dichloroethane	3.234	62	314377	10.424	ppbv	98
38) Trichloroethene	4.570	130	202575	9.217	ppbv	97
39) 1,2-Dichloropropane	4.334	63	179485	9.356	ppbv	92
40) 1,4-Dioxane	4.606	88	85103	8.358	ppbv #	93
41) Tetrahydrofuran	3.068	42	201260	9.071	ppbv	98
42) Bromodichloromethane	4.512	83	430763	10.361	ppbv	99
43) Methyl Methacrylate	4.907	69	188872	8.470	ppbv	98
44) 2,2,4-Trimethylpentane	4.664	57	838005	9.414	ppbv	97
45) t-1,3-Dichloropropene	6.444	75	194507	8.130	ppbv	97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040725\
 Data File : VL042230.D
 Acq On : 07 Apr 2025 11:09
 Operator : SY/MD
 Sample : VL0407ABS01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0407ABS01

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 04/08/2025
 Supervised By : Mahesh Dadoda 04/09/2025

Quant Time: Apr 08 01:29:41 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M

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

QLast Update : Fri Mar 28 02:00:52 2025

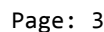
Response via : Initial Calibration

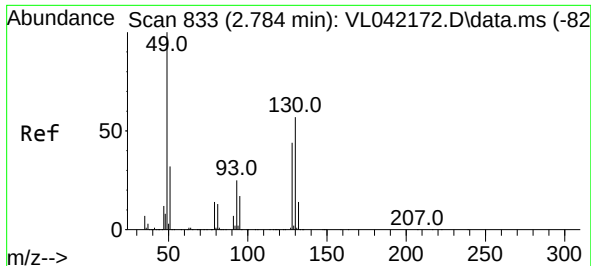
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.632	75	252229	8.601	ppbv	99
47) 1,1,2-Trichloroethane	6.606	97	201960	9.959	ppbv	95
48) Dibromochloromethane	7.412	129	343914	10.007	ppbv	99
49) Bromoform	9.500	173	302914	9.817	ppbv	99
50) 4-Methyl-2-Pentanone	5.784	43	510960	8.368	ppbv	97
51) 2-Hexanone	7.461	43	415858	8.294	ppbv #	96
52) Tetrachloroethene	8.244	164	174622	8.359	ppbv	96
53) Toluene	6.962	91	562424	9.007	ppbv	99
54) 1,2-Dibromoethane	7.674	107	272683	9.646	ppbv	99
56) 1,1,1,2-Tetrachloroethane	8.943	131	276768	10.608	ppbv	99
57) Chlorobenzene	8.940	112	458748	10.204	ppbv	99
58) Ethyl Benzene	9.373	91	821248	9.754	ppbv	99
59) m/p-Xylene	9.568	91	1370037m	20.379	ppbv	
60) o-Xylene	9.982	91	684704	10.160	ppbv	97
61) Styrene	9.888	104	318889	9.564	ppbv	99
62) Isopropylbenzene	10.555	105	1035385	10.274	ppbv	99
63) 1,1,2,2-Tetrachloroethane	9.979	83	442871	10.816	ppbv	98
64) n-propylbenzene	11.005	120	270373	10.422	ppbv	99
65) tert-Butylbenzene	11.545	119	944630	10.135	ppbv	98
66) Benzyl Chloride	11.629	91	70444	7.123	ppbv	100
67) sec-Butylbenzene	11.782	105	1346681	10.395	ppbv	99
69) p-Isopropyltoluene	11.940	119	1151394	10.321	ppbv	99
70) n-Butylbenzene	12.296	91	1190709	10.437	ppbv	98
71) 2-Chlorotoluene	10.917	91	803764	10.276	ppbv	100
72) 4-Ethyltoluene	11.141	105	867726	10.341	ppbv	99
73) 1,3,5-Trimethylbenzene	11.218	105	750866	10.246	ppbv	97
74) 1,2,4-Trimethylbenzene	11.552	105	832142	9.856	ppbv	93
75) 1,3-Dichlorobenzene	11.623	146	491666	10.618	ppbv	99
76) 1,4-Dichlorobenzene	11.688	146	486784	10.563	ppbv	99
77) 1,2-Dichlorobenzene	11.963	146	480453	10.656	ppbv	99
78) Hexachloro-1,3-Butadiene	13.895	225	375805	8.189	ppbv	99
79) Naphthalene	13.526	128	855353	9.262	ppbv	100
80) Naphthalene,2-methyl-	14.471	142	301864	6.665	ppbv	99
81) 1,2,4-Trichlorobenzene	13.455	180	383097	8.994	ppbv	98

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

Manual Integrations

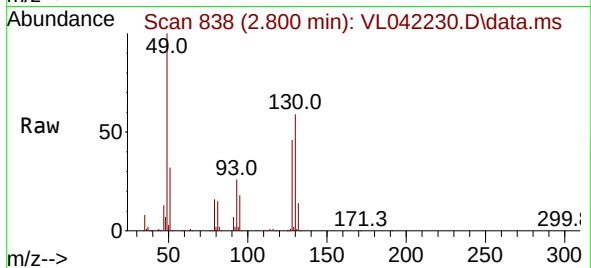
Quant Time: Apr 08 01:29:41 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Fri Mar 28 02:00:52 2025
Response via : Initial Calibration





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.800 min Scan# 81
Delta R.T. 0.016 min
Lab File: VL042230.D
Acq: 07 Apr 2025 11:09

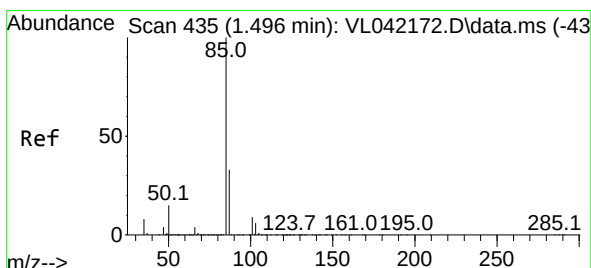
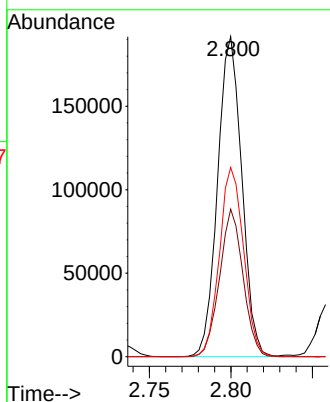
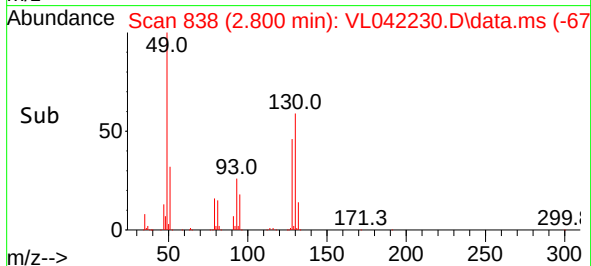
Instrument :
MSVOA_L
ClientSampleId :
VL0407ABS01



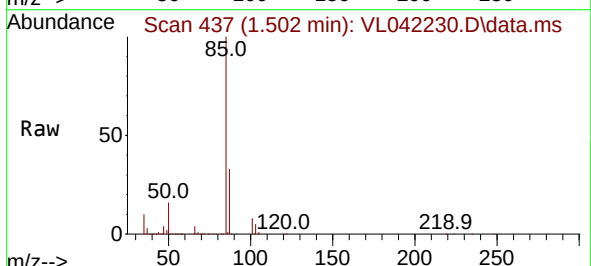
Tgt Ion: 49 Resp: 19782
Ion Ratio Lower Upper
49 100
128 44.6 22.9 68.5
130 59.0 28.8 86.4

Manual Integrations
APPROVED

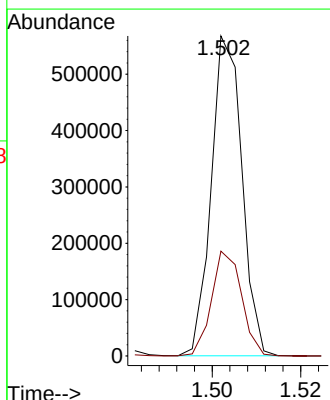
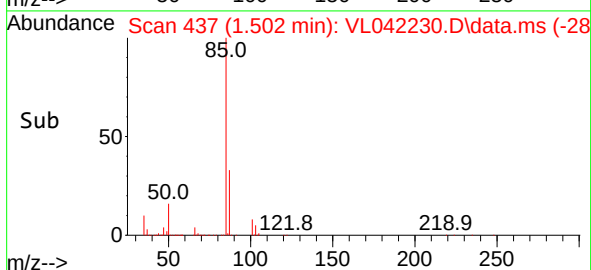
Reviewed By :Semsettin Yesilyurt 04/08/2025
Supervised By :Mahesh Dadoda 04/09/2025

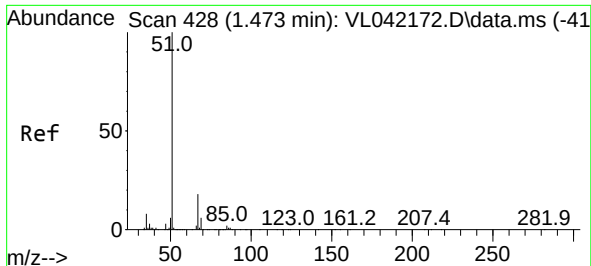


#2
Dichlorodifluoromethane
Concen: 9.363 ppbv
RT: 1.502 min Scan# 437
Delta R.T. 0.006 min
Lab File: VL042230.D
Acq: 07 Apr 2025 11:09



Tgt Ion: 85 Resp: 273487
Ion Ratio Lower Upper
85 100
87 32.7 26.1 39.1





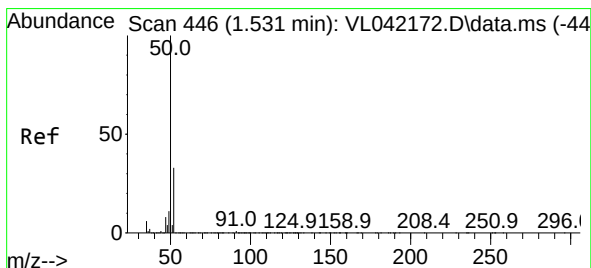
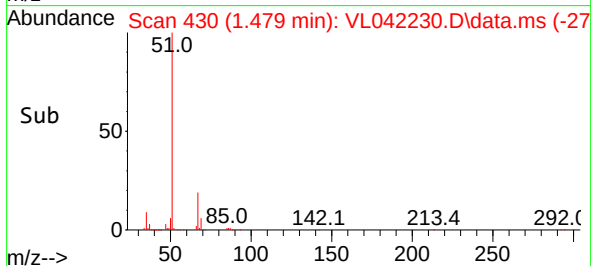
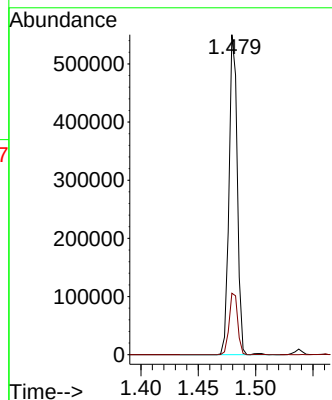
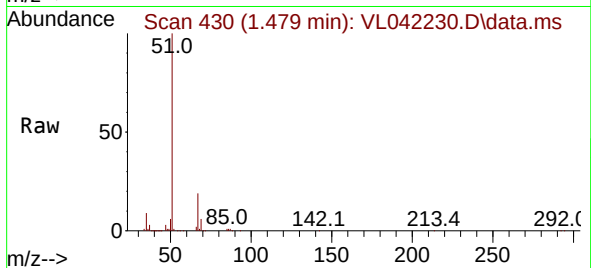
#3
Chlorodifluoromethane
Concen: 9.267 ppbv
RT: 1.479 min Scan# 41
Delta R.T. 0.006 min
Lab File: VL042230.D
Acq: 07 Apr 2025 11:09

Instrument :
MSVOA_L
ClientSampleId :
VL0407ABS01

Tgt Ion: 51 Resp: 27652
Ion Ratio Lower Upper
51 100
67 19.9 15.0 22.6

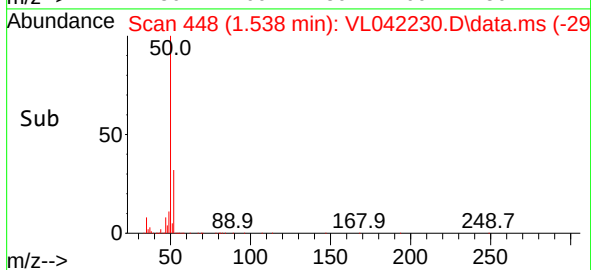
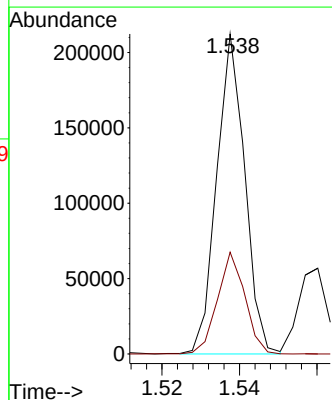
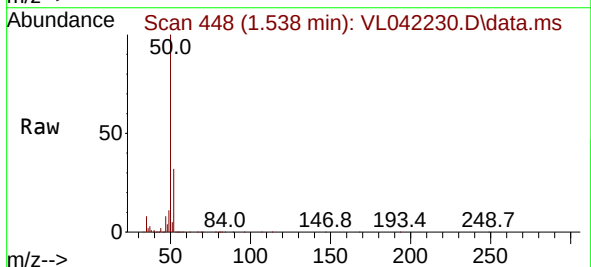
Manual Integrations
APPROVED

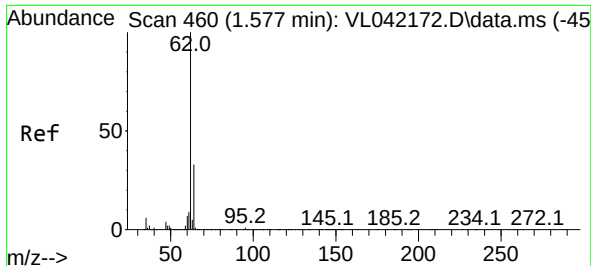
Reviewed By :Semsettin Yesilyurt 04/08/2025
Supervised By :Mahesh Dadoda 04/09/2025



#4
Chloromethane
Concen: 8.944 ppbv
RT: 1.538 min Scan# 448
Delta R.T. 0.006 min
Lab File: VL042230.D
Acq: 07 Apr 2025 11:09

Tgt Ion: 50 Resp: 106766
Ion Ratio Lower Upper
50 100
52 31.8 26.1 39.1





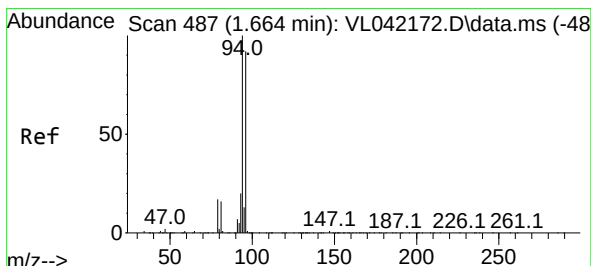
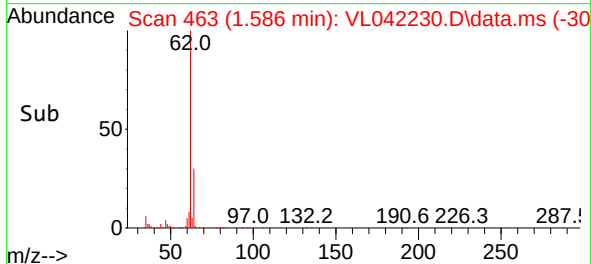
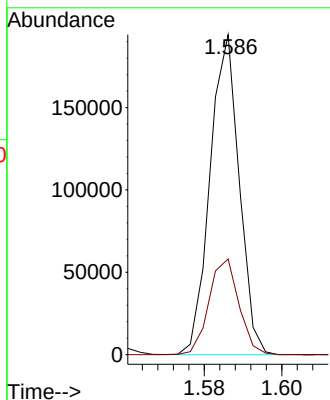
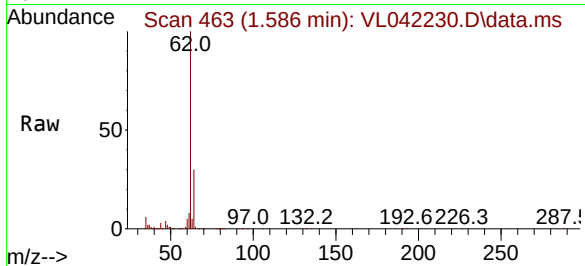
#5
 Vinyl Chloride
 Concen: 8.032 ppbv
 RT: 1.586 min Scan# 40
 Delta R.T. 0.009 min
 Lab File: VL042230.D
 Acq: 07 Apr 2025 11:09

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0407ABS01

Tgt Ion: 62 Resp: 101600
 Ion Ratio Lower Upper
 62 100
 64 29.8 26.6 40.0

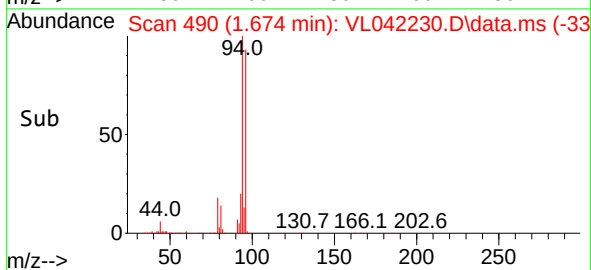
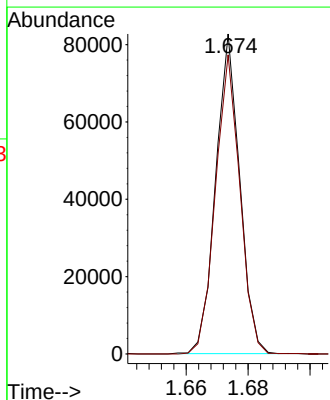
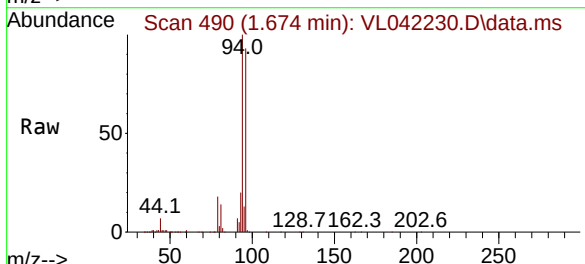
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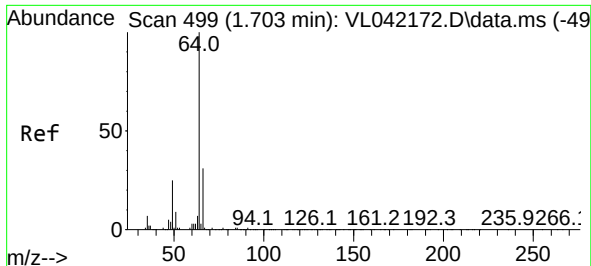
Reviewed By :Semsettin Yesilyurt 04/08/2025
 Supervised By :Mahesh Dadoda 04/09/2025



#6
 Bromomethane
 Concen: 8.215 ppbv
 RT: 1.674 min Scan# 490
 Delta R.T. 0.009 min
 Lab File: VL042230.D
 Acq: 07 Apr 2025 11:09

Tgt Ion: 94 Resp: 44439
 Ion Ratio Lower Upper
 94 100
 96 93.6 73.1 109.7





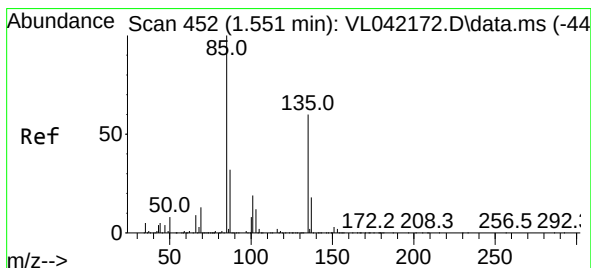
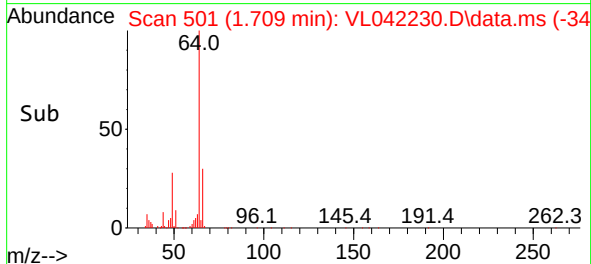
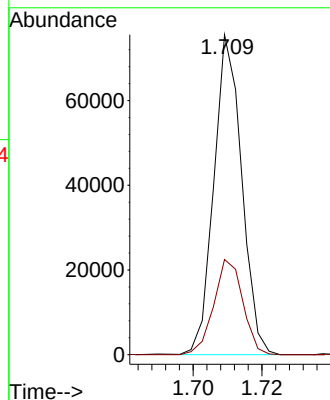
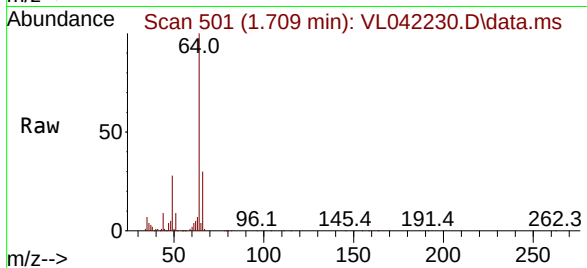
#7
Chloroethane
Concen: 8.861 ppbv
RT: 1.709 min Scan# 501
Delta R.T. 0.006 min
Lab File: VL042230.D
Acq: 07 Apr 2025 11:09

Instrument :
MSVOA_L
ClientSampleId :
VL0407ABS01

Tgt Ion: 64 Resp: 42458
Ion Ratio Lower Upper
64 100
66 29.8 25.2 37.8

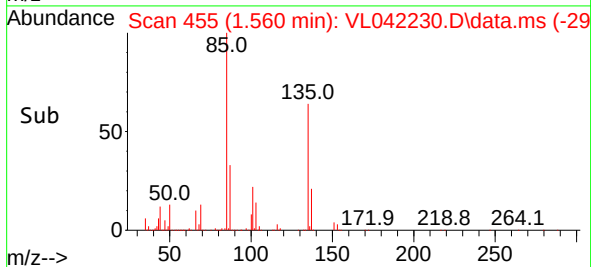
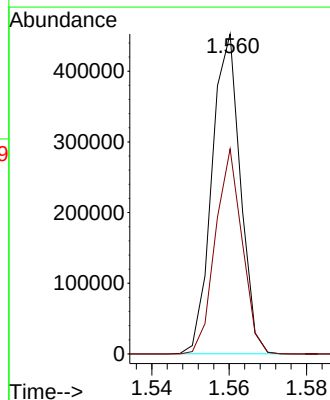
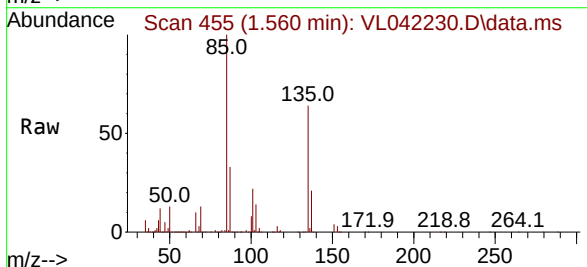
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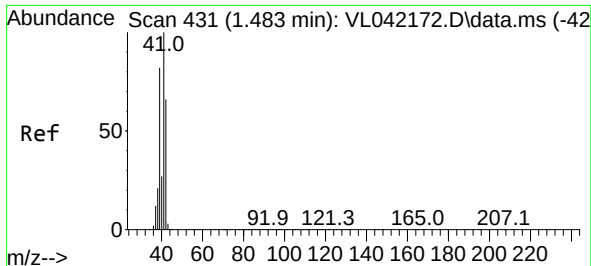
Reviewed By :Semsettin Yesilyurt 04/08/2025
Supervised By :Mahesh Dadoda 04/09/2025



#8
Dichlorotetrafluoroethane
Concen: 9.266 ppbv
RT: 1.560 min Scan# 455
Delta R.T. 0.009 min
Lab File: VL042230.D
Acq: 07 Apr 2025 11:09

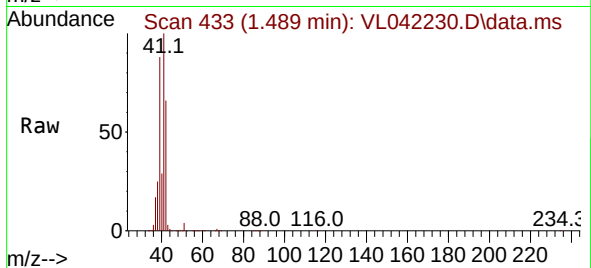
Tgt Ion: 85 Resp: 230477
Ion Ratio Lower Upper
85 100
135 60.5 52.4 78.6





#9
 Propene
 Concen: 7.768 ppbv
 RT: 1.489 min Scan# 41
 Delta R.T. 0.006 min
 Lab File: VL042230.D
 Acq: 07 Apr 2025 11:09

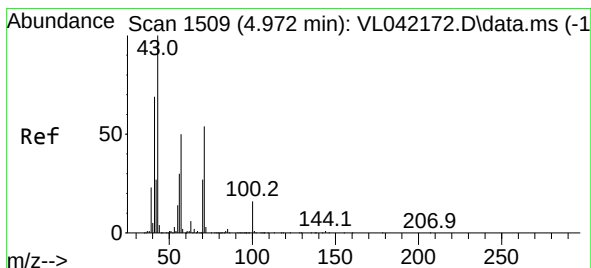
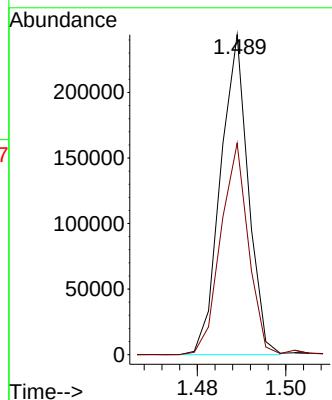
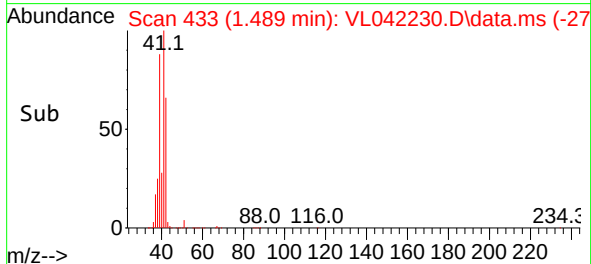
Instrument :
 MSVOA_L
 ClientSampleId :
 VL0407ABS01



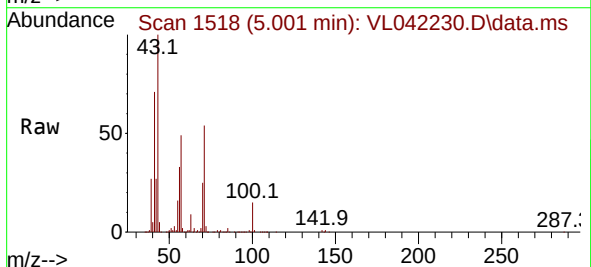
Tgt Ion: 41 Resp: 106235
 Ion Ratio Lower Upper
 41 100
 42 66.9 55.4 83.2

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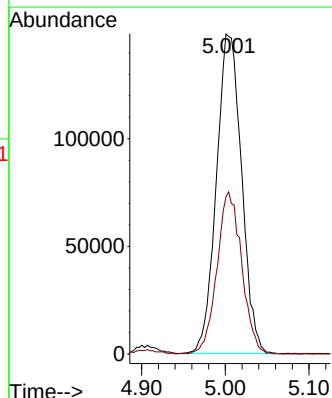
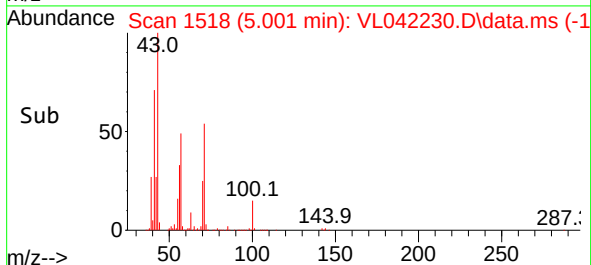
Reviewed By :Semsettin Yesilyurt 04/08/2025
 Supervised By :Mahesh Dadoda 04/09/2025

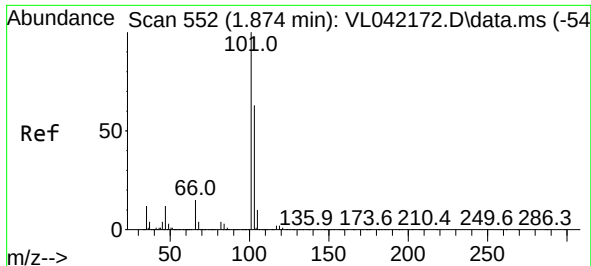


#10
 Heptane
 Concen: 8.550 ppbv
 RT: 5.001 min Scan# 1518
 Delta R.T. 0.029 min
 Lab File: VL042230.D
 Acq: 07 Apr 2025 11:09



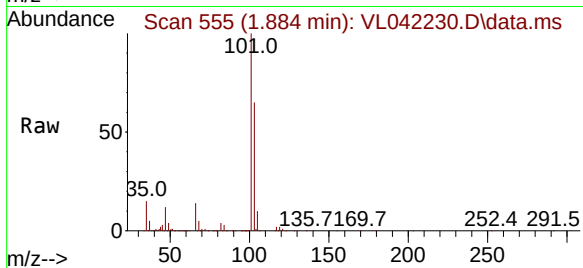
Tgt Ion: 43 Resp: 311035
 Ion Ratio Lower Upper
 43 100
 57 49.6 39.4 59.2





#11
Trichlorofluoromethane
Concen: 9.175 ppbv
RT: 1.884 min Scan# 511
Delta R.T. 0.009 min
Lab File: VL042230.D
Acq: 07 Apr 2025 11:09

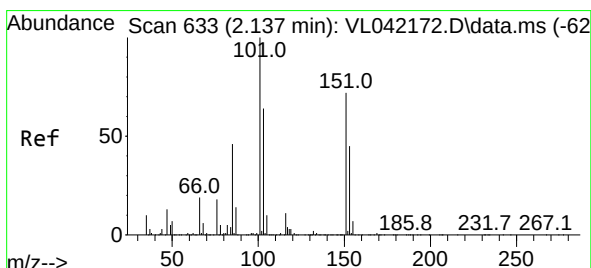
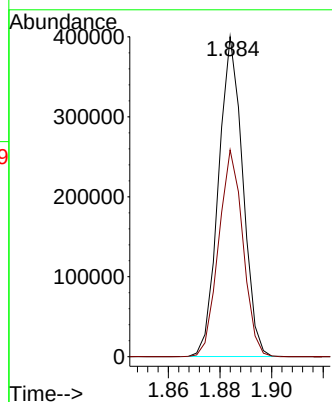
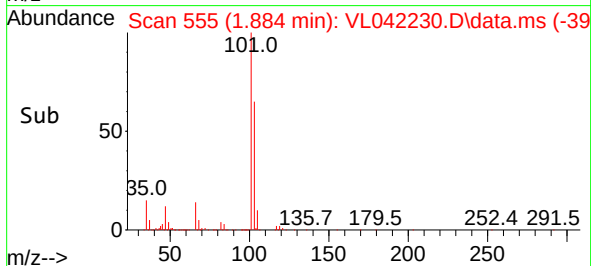
Instrument :
MSVOA_L
ClientSampleId :
VL0407ABS01



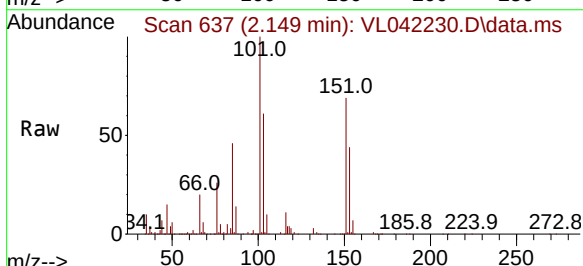
Tgt Ion:101 Resp: 260770
Ion Ratio Lower Upper
101 100
103 64.6 50.2 75.2

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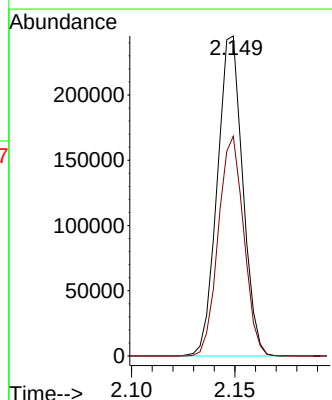
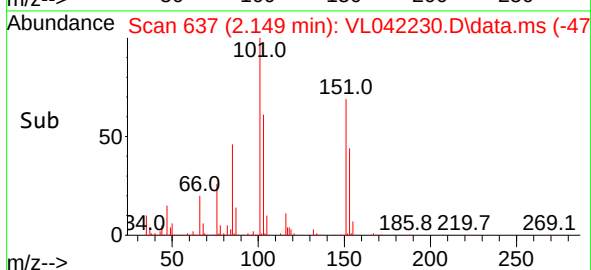
Reviewed By :Semsettin Yesilyurt 04/08/2025
Supervised By :Mahesh Dadoda 04/09/2025

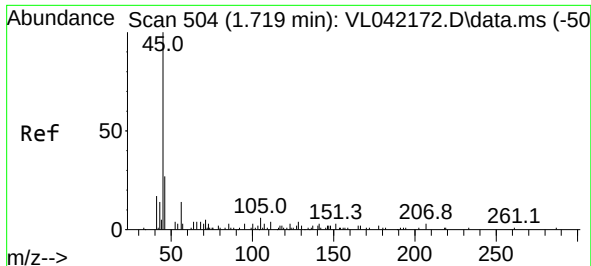


#12
1,1,2-Trichlorotrifluoroethane
Concen: 9.006 ppbv
RT: 2.149 min Scan# 637
Delta R.T. 0.013 min
Lab File: VL042230.D
Acq: 07 Apr 2025 11:09



Tgt Ion:101 Resp: 210391
Ion Ratio Lower Upper
101 100
151 68.4 57.1 85.7





#13

Ethanol

Concen: 4.172 ppbv

RT: 1.729 min Scan# 504

Delta R.T. 0.009 min

Lab File: VL042230.D

Acq: 07 Apr 2025 11:09

Instrument :

MSVOA_L

ClientSampleId :

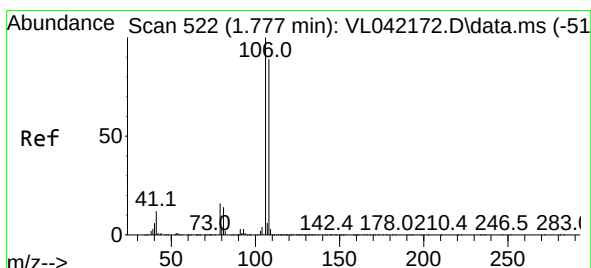
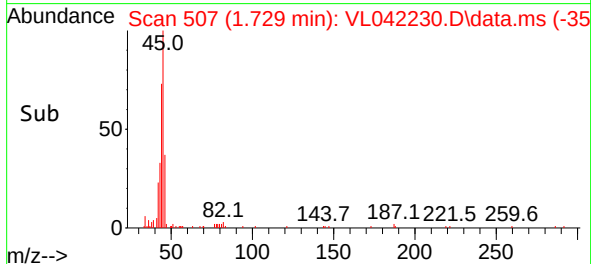
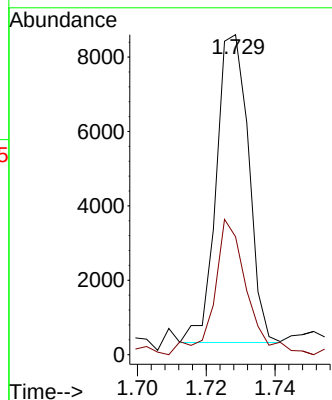
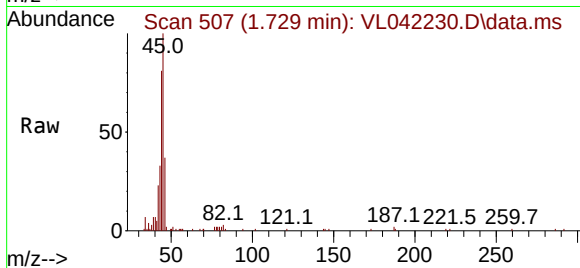
VL0407ABS01

Tgt Ion: 45 Resp: 5394
 Ion Ratio Lower Upper
 45 100
 46 48.4 20.2 80.8

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 04/08/2025
 Supervised By :Mahesh Dadoda 04/09/2025



#14

Bromoethene

Concen: 8.016 ppbv

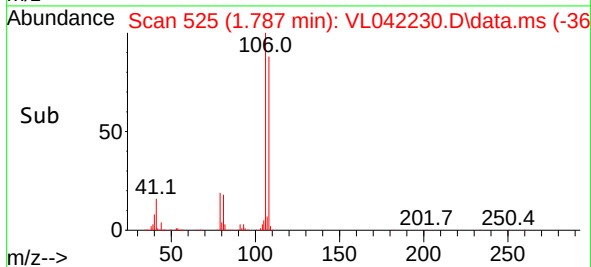
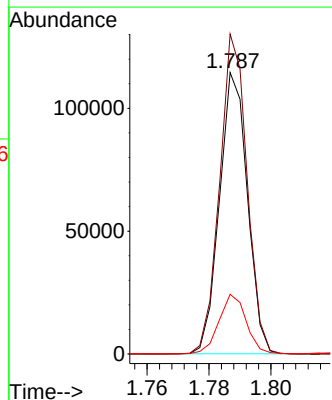
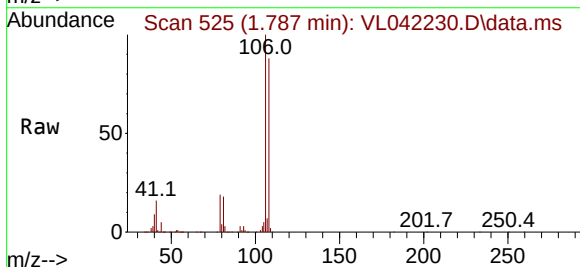
RT: 1.787 min Scan# 525

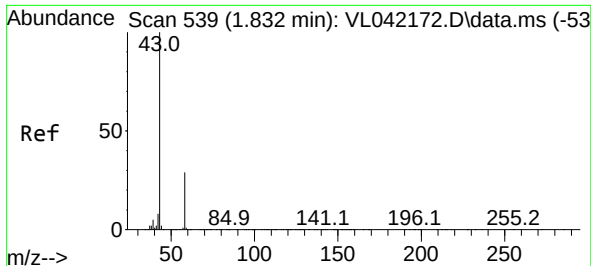
Delta R.T. 0.009 min

Lab File: VL042230.D

Acq: 07 Apr 2025 11:09

Tgt Ion:108 Resp: 71737
 Ion Ratio Lower Upper
 108 100
 106 111.4 86.8 130.2
 79 21.4 15.0 22.6





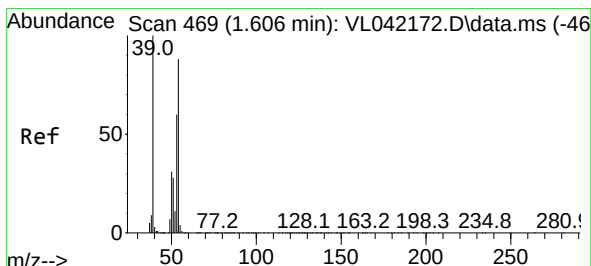
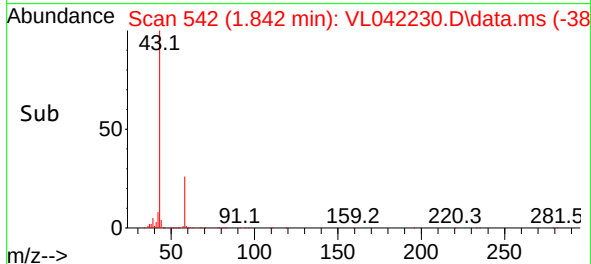
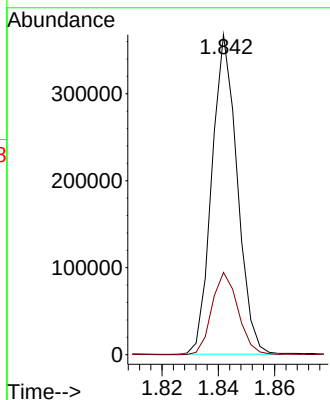
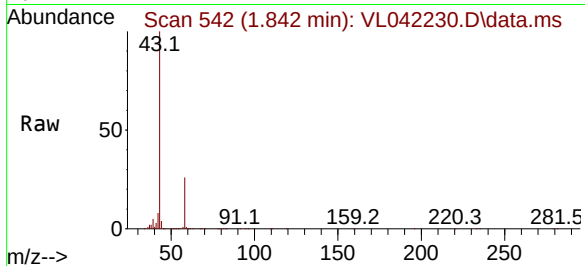
#15
Acetone
Concen: 8.330 ppbv
RT: 1.842 min Scan# 54
Delta R.T. 0.009 min
Lab File: VL042230.D
Acq: 07 Apr 2025 11:09

Instrument :
MSVOA_L
ClientSampleId :
VL0407ABS01

Tgt Ion: 43 Resp: 230460
Ion Ratio Lower Upper
43 100
58 26.7 23.2 34.8

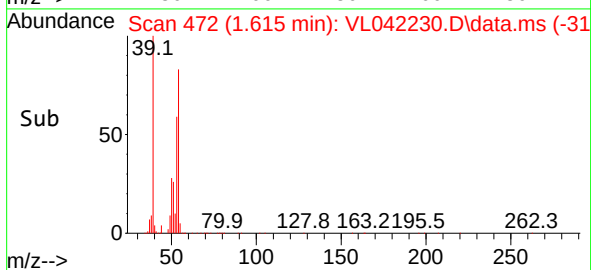
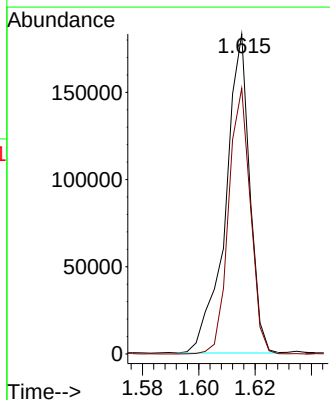
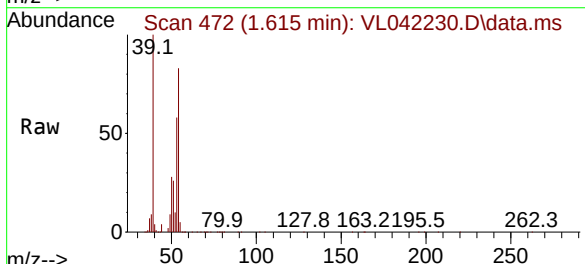
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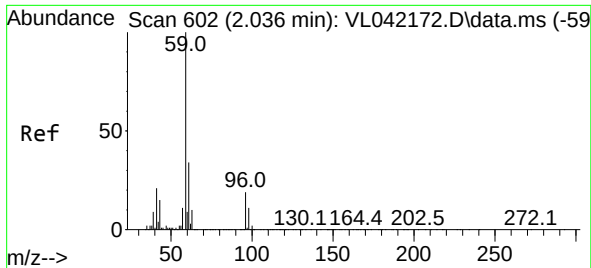
Reviewed By :Semsettin Yesilyurt 04/08/2025
Supervised By :Mahesh Dadoda 04/09/2025



#16
1,3-Butadiene
Concen: 8.090 ppbv
RT: 1.615 min Scan# 472
Delta R.T. 0.009 min
Lab File: VL042230.D
Acq: 07 Apr 2025 11:09

Tgt Ion: 39 Resp: 109306
Ion Ratio Lower Upper
39 100
54 74.7 60.7 91.1





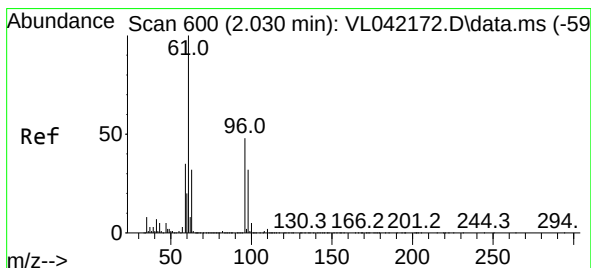
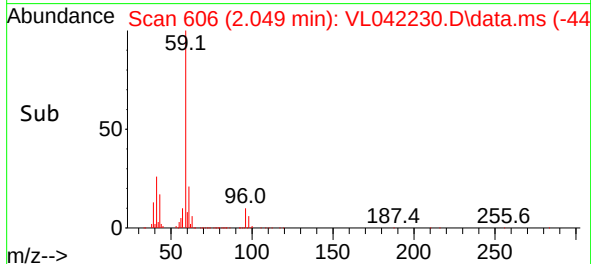
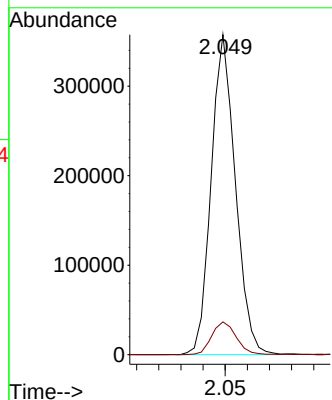
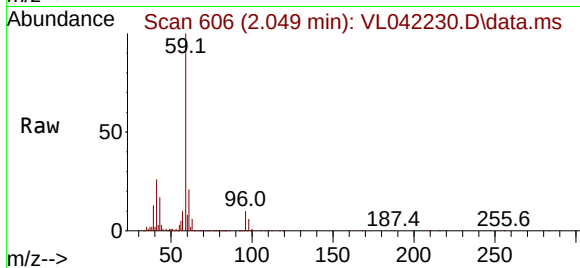
#17
tert-Butyl alcohol
Concen: 7.879 ppbv
RT: 2.049 min Scan# 602
Delta R.T. 0.013 min
Lab File: VL042230.D
Acq: 07 Apr 2025 11:09

Instrument :
MSVOA_L
ClientSampleId :
VL0407ABS01

Tgt Ion: 59 Resp: 27148
Ion Ratio Lower Upper
59 100
57 10.7 8.9 13.3

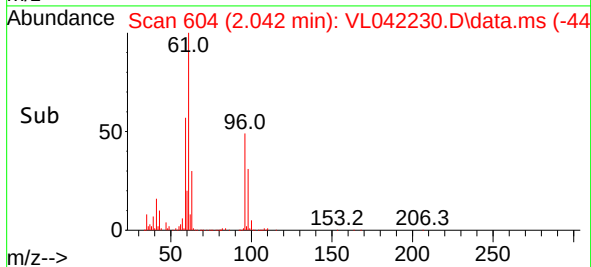
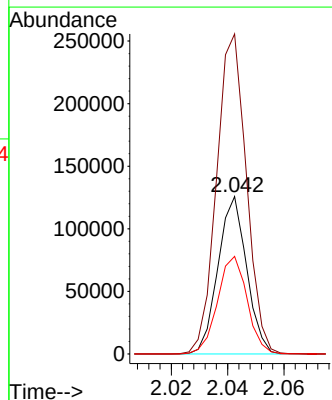
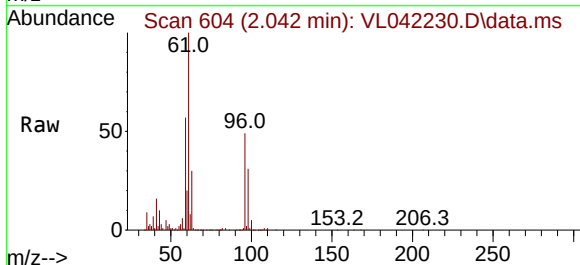
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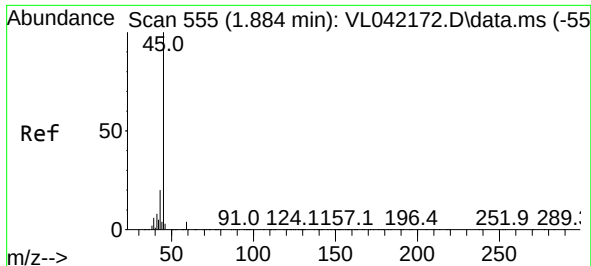
Reviewed By :Semsettin Yesilyurt 04/08/2025
Supervised By :Mahesh Dadoda 04/09/2025



#18
1,1-Dichloroethene
Concen: 8.125 ppbv
RT: 2.042 min Scan# 604
Delta R.T. 0.013 min
Lab File: VL042230.D
Acq: 07 Apr 2025 11:09

Tgt Ion: 96 Resp: 88728
Ion Ratio Lower Upper
96 100
61 203.0 167.6 251.4
98 62.0 53.5 80.3





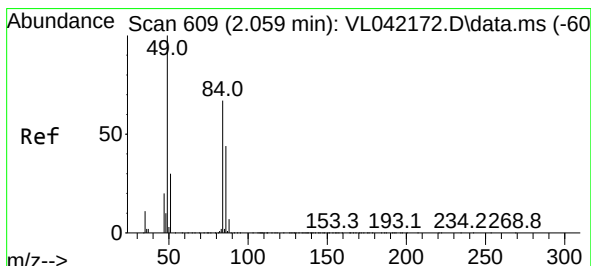
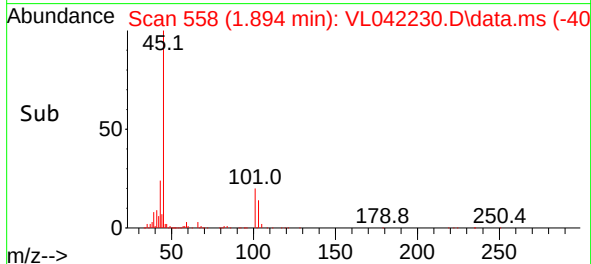
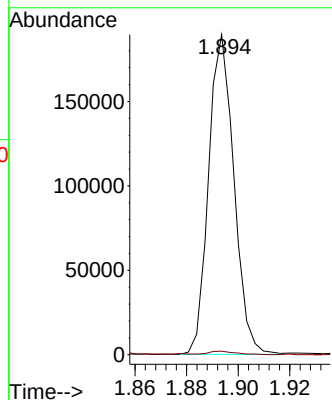
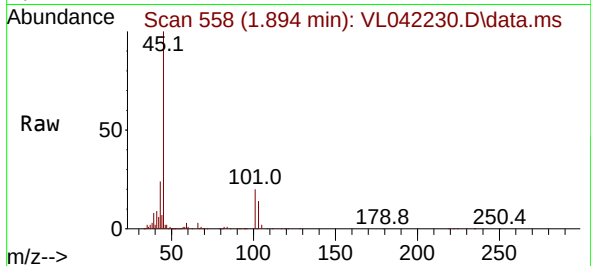
#19
Isopropyl Alcohol
Concen: 8.272 ppbv
RT: 1.894 min Scan# 511
Delta R.T. 0.009 min
Lab File: VL042230.D
Acq: 07 Apr 2025 11:09

Instrument :
MSVOA_L
ClientSampleId :
VL0407ABS01

Tgt Ion: 45 Resp: 12913
Ion Ratio Lower Upper
45 100
58 47.5 36.9 55.3

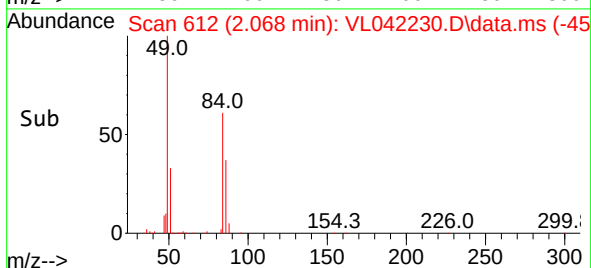
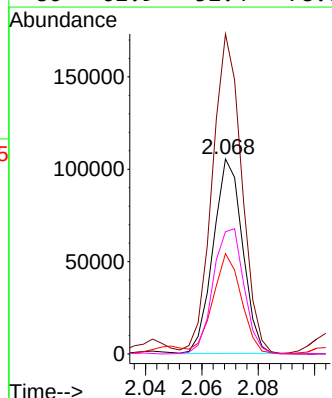
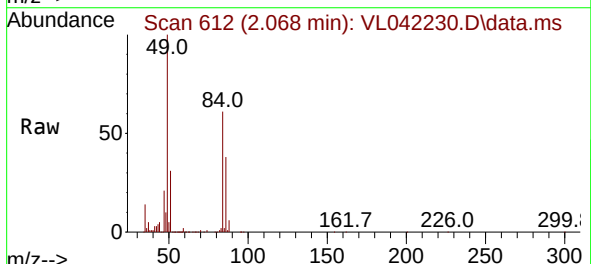
Manual Integrations
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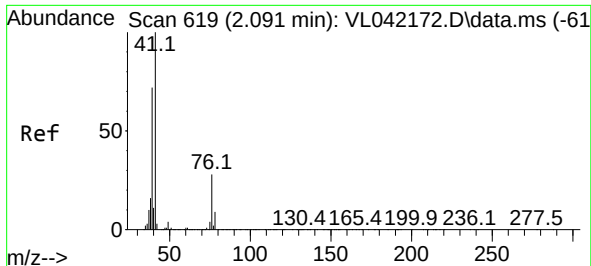
Reviewed By :Semsettin Yesilyurt 04/08/2025
Supervised By :Mahesh Dadoda 04/09/2025



#20
Methylene Chloride
Concen: 7.391 ppbv
RT: 2.068 min Scan# 612
Delta R.T. 0.009 min
Lab File: VL042230.D
Acq: 07 Apr 2025 11:09

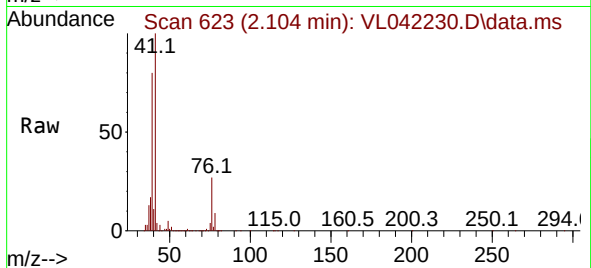
Tgt Ion: 84 Resp: 76153
Ion Ratio Lower Upper
84 100
49 164.4 120.2 180.4
51 51.4 37.4 56.0
86 62.9 52.4 78.6





#21
 Allyl Chloride
 Concen: 8.576 ppbv
 RT: 2.104 min Scan# 619
 Delta R.T. 0.013 min
 Lab File: VL042230.D
 Acq: 07 Apr 2025 11:09

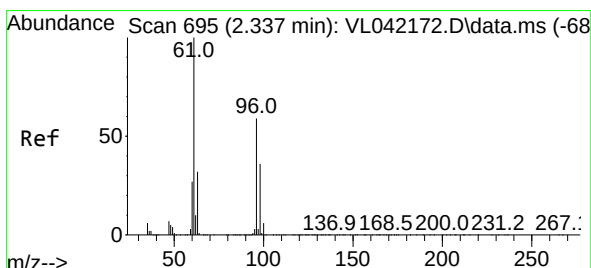
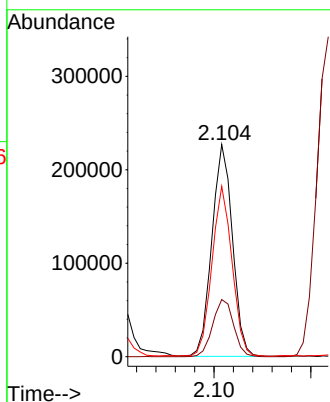
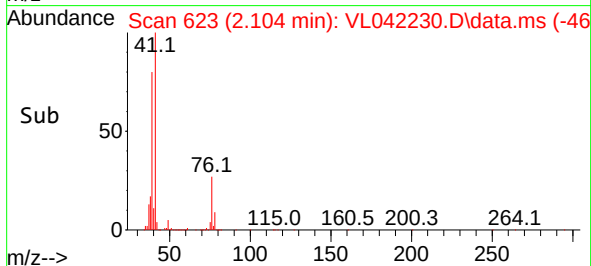
Instrument :
 MSVOA_L
 ClientSampleId :
 VL0407ABS01



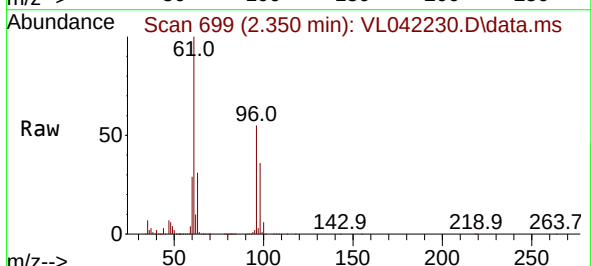
Tgt Ion: 41 Resp: 167334
 Ion Ratio Lower Upper
 41 100
 76 27.4 24.1 36.1
 39 77.4 61.1 91.7

Manual Integrations
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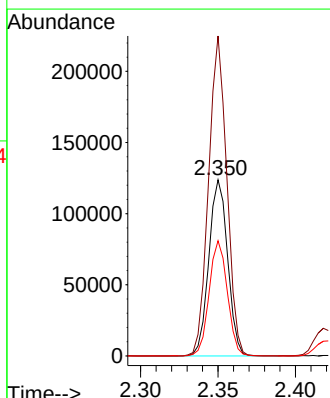
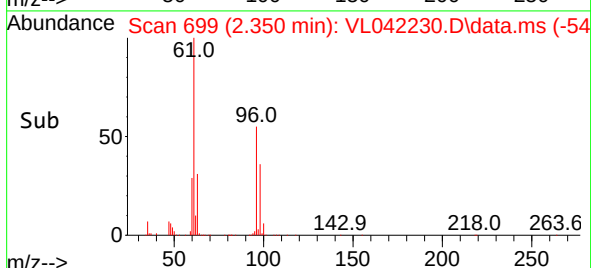
Reviewed By :Semsettin Yesilyurt 04/08/2025
 Supervised By :Mahesh Dadoda 04/09/2025

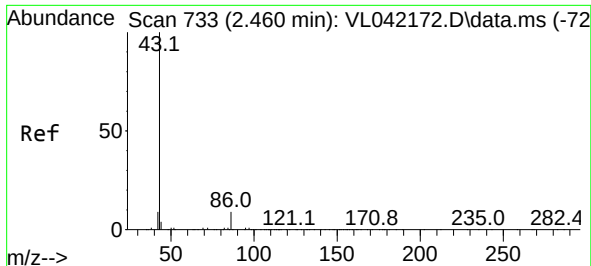


#22
 trans-1,2-Dichloroethene
 Concen: 8.275 ppbv
 RT: 2.350 min Scan# 699
 Delta R.T. 0.013 min
 Lab File: VL042230.D
 Acq: 07 Apr 2025 11:09



Tgt Ion: 96 Resp: 104449
 Ion Ratio Lower Upper
 96 100
 61 181.6 136.6 204.8
 98 65.4 49.4 74.2





#23
 Vinyl Acetate
 Concen: 8.050 ppbv
 RT: 2.473 min Scan# 71
 Delta R.T. 0.013 min
 Lab File: VL042230.D
 Acq: 07 Apr 2025 11:09

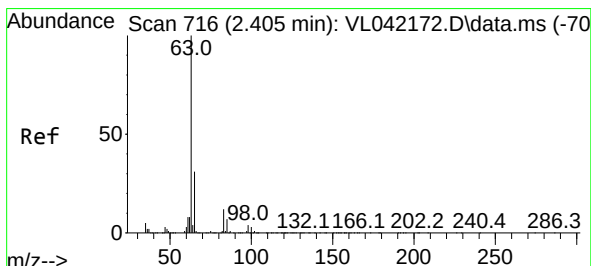
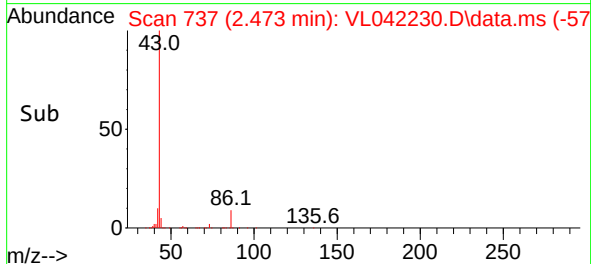
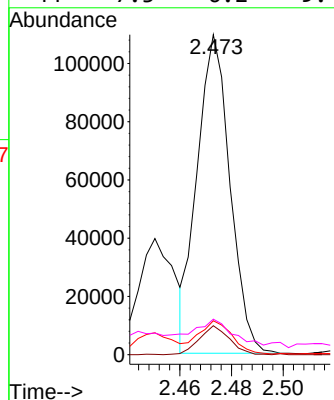
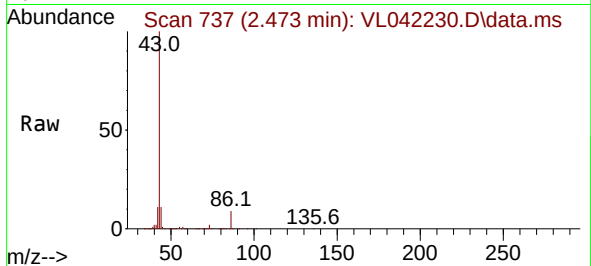
Instrument :
 MSVOA_L
 ClientSampleId :
 VL0407ABS01

Tgt Ion: 43 Resp: 9639

Ion	Ratio	Lower	Upper
43	100		
86	8.8	5.5	8.3
42	10.3	8.6	13.0
44	7.3	6.2	9.4

Manual Integrations
 APPROVED

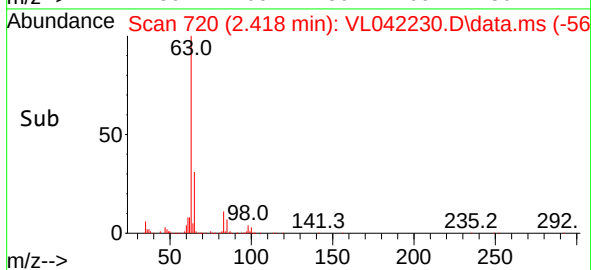
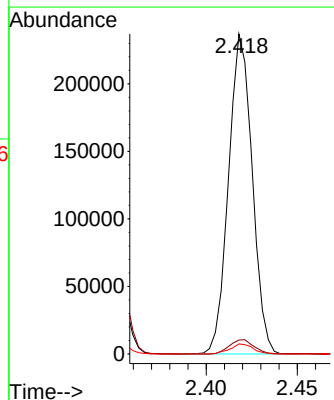
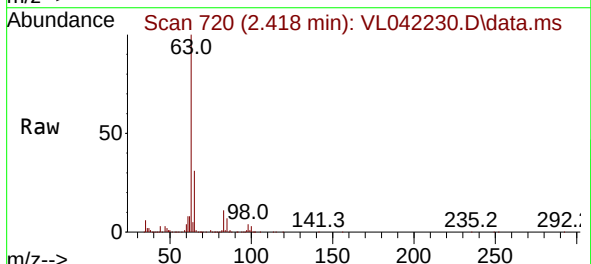
Reviewed By :Semsettin Yesilyurt 04/08/2025
 Supervised By :Mahesh Dadoda 04/09/2025

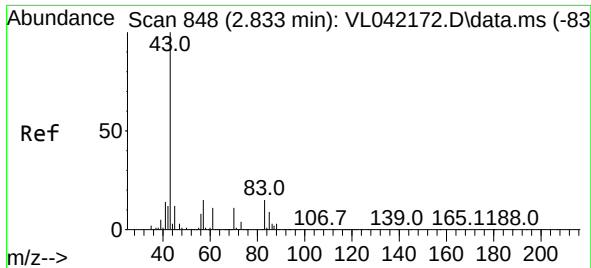


#24
 1,1-Dichloroethane
 Concen: 9.152 ppbv
 RT: 2.418 min Scan# 720
 Delta R.T. 0.013 min
 Lab File: VL042230.D
 Acq: 07 Apr 2025 11:09

Tgt Ion: 63 Resp: 214121

Ion	Ratio	Lower	Upper
63	100		
98	4.3	2.3	6.8
100	3.2	1.6	4.7





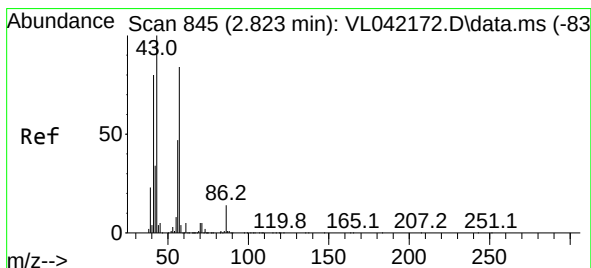
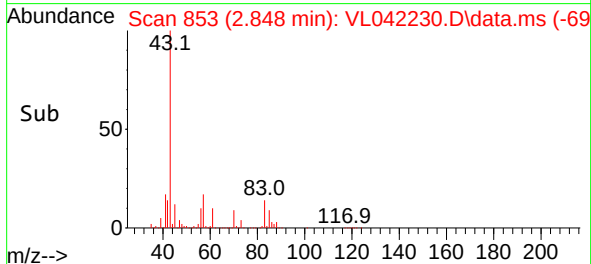
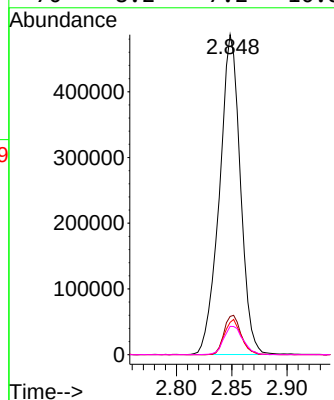
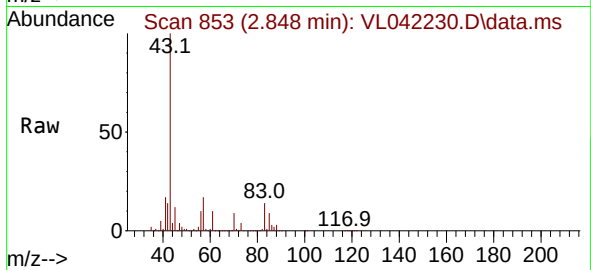
#25
Ethyl Acetate
Concen: 8.902 ppbv
RT: 2.848 min Scan# 848
Delta R.T. 0.016 min
Lab File: VL042230.D
Acq: 07 Apr 2025 11:09

Instrument :
MSVOA_L
ClientSampleId :
VL0407ABS01

Tgt Ion: 43 Resp: 639210
Ion Ratio Lower Upper
43 100
45 10.1 8.2 12.2
61 8.9 7.3 10.9
70 8.2 7.2 10.8

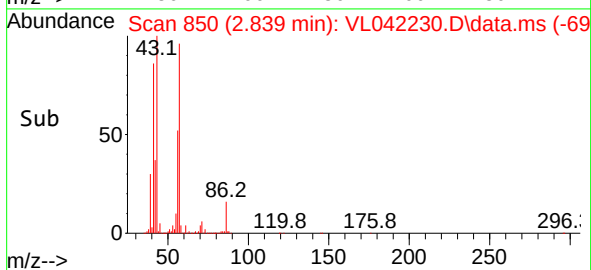
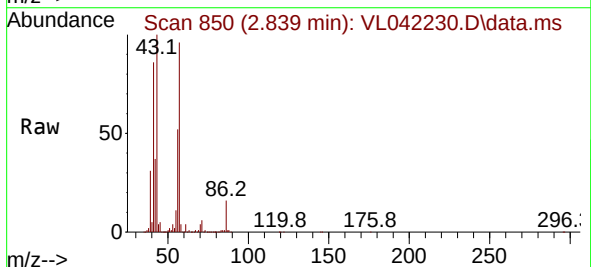
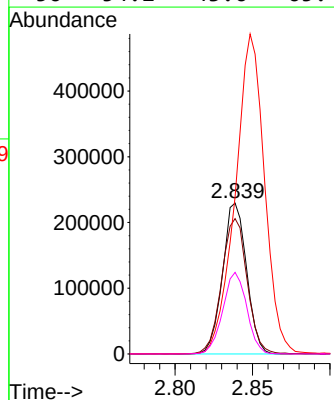
Manual Integrations
APPROVED

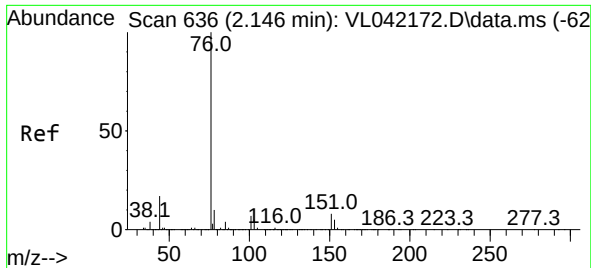
Reviewed By :Semsettin Yesilyurt 04/08/2025
Supervised By :Mahesh Dadoda 04/09/2025



#26
Hexane
Concen: 8.897 ppbv
RT: 2.839 min Scan# 850
Delta R.T. 0.016 min
Lab File: VL042230.D
Acq: 07 Apr 2025 11:09

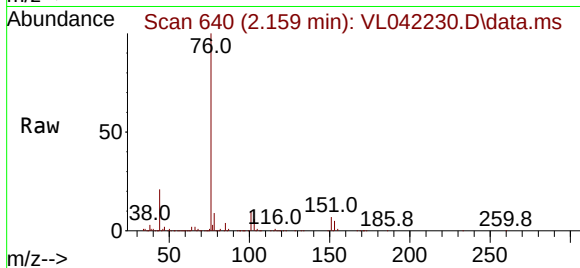
Tgt Ion: 57 Resp: 246755
Ion Ratio Lower Upper
57 100
41 96.1 76.6 114.8
43 259.7 207.8 311.8
56 54.2 43.6 65.4





#27
Carbon Disulfide
Concen: 8.689 ppbv
RT: 2.159 min Scan# 640
Delta R.T. 0.013 min
Lab File: VL042230.D
Acq: 07 Apr 2025 11:09

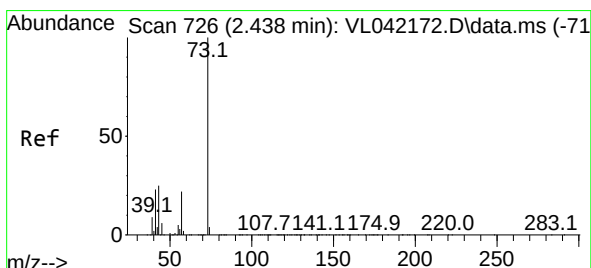
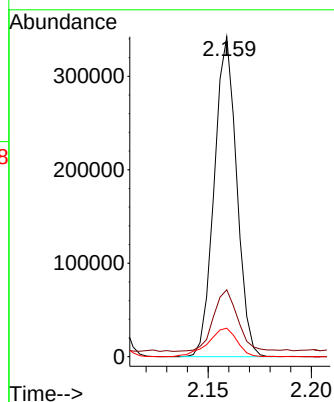
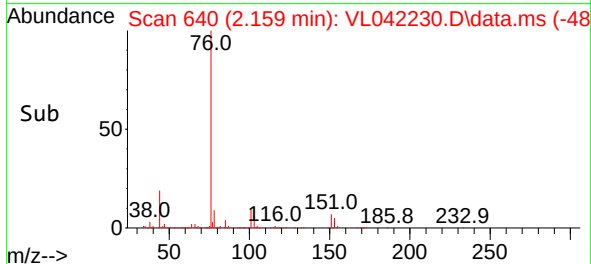
Instrument : MSVOA_L
ClientSampleId : VL0407ABS01



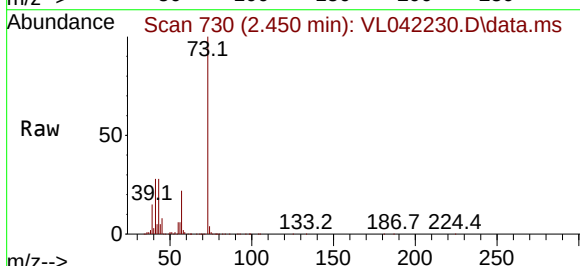
Tgt Ion: 76 Resp: 258412
Ion Ratio Lower Upper
76 100
44 20.9 14.7 22.1
78 11.5 9.3 13.9

Manual Integrations
APPROVED

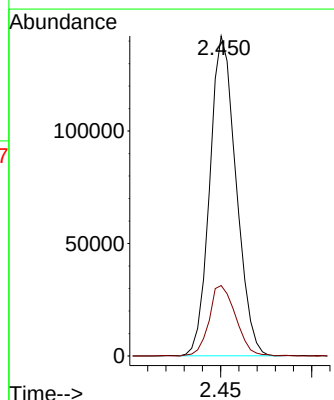
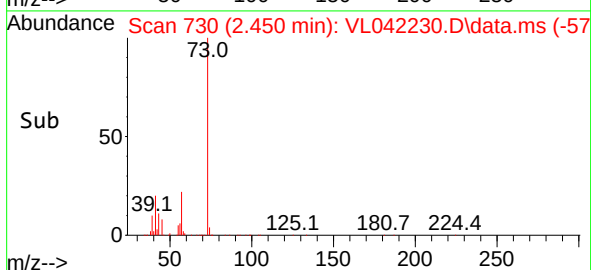
Reviewed By :Semsettin Yesilyurt 04/08/2025
Supervised By :Mahesh Dadoda 04/09/2025

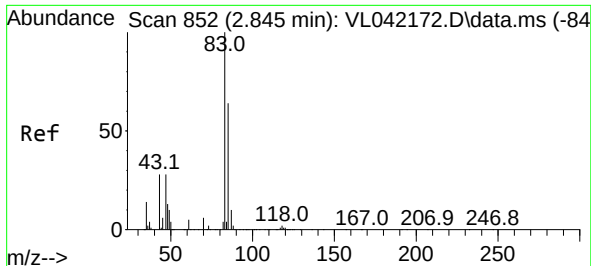


#28
Methyl tert-Butyl Ether
Concen: 8.259 ppbv
RT: 2.450 min Scan# 730
Delta R.T. 0.013 min
Lab File: VL042230.D
Acq: 07 Apr 2025 11:09



Tgt Ion: 73 Resp: 142610
Ion Ratio Lower Upper
73 100
57 22.4 20.5 30.7





#29

Chloroform

Concen: 9.793 ppbv

RT: 2.861 min Scan# 8

Delta R.T. 0.016 min

Lab File: VL042230.D

Acq: 07 Apr 2025 11:09

Instrument :

MSVOA_L

ClientSampleId :

VL0407ABS01

Tgt Ion: 83 Resp: 39751

Ion Ratio Lower Upper

83 100

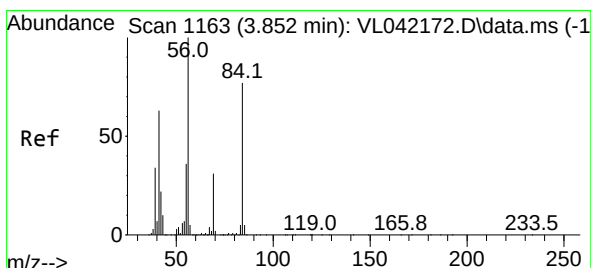
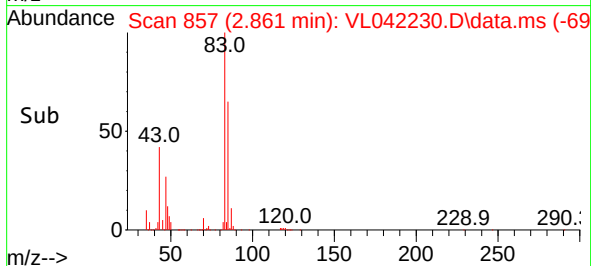
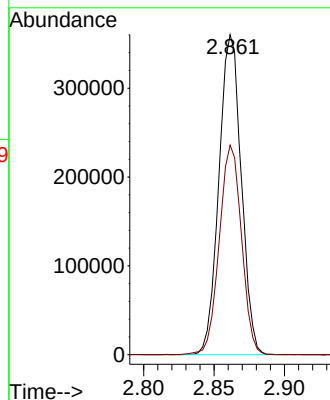
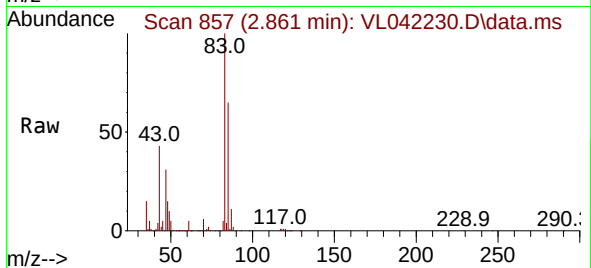
85 65.4 51.4 77.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/08/2025

Supervised By :Mahesh Dadoda 04/09/2025



#30

Cyclohexane

Concen: 8.451 ppbv

RT: 3.874 min Scan# 1170

Delta R.T. 0.022 min

Lab File: VL042230.D

Acq: 07 Apr 2025 11:09

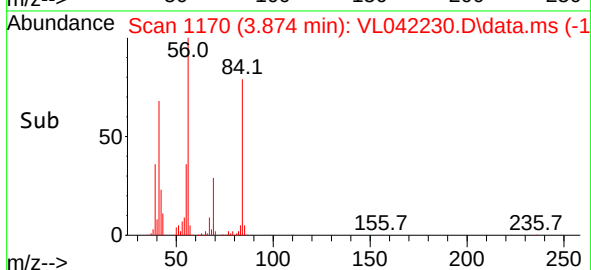
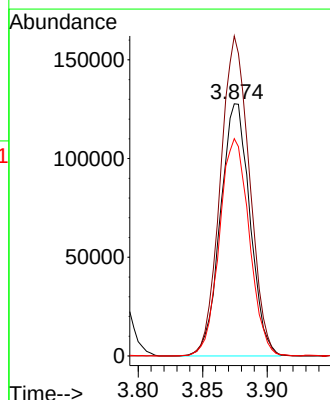
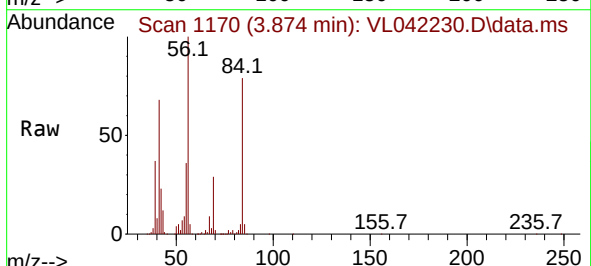
Tgt Ion: 84 Resp: 203521

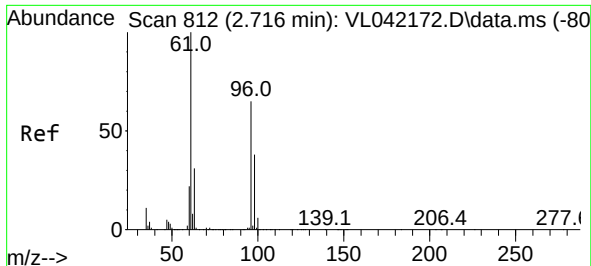
Ion Ratio Lower Upper

84 100

56 125.0 102.8 154.2

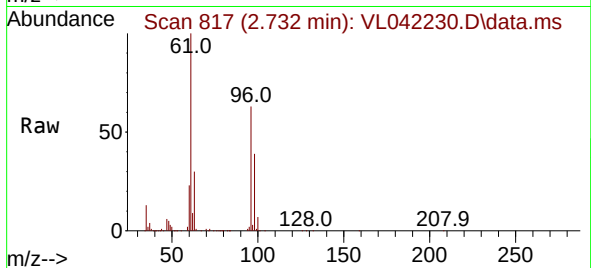
41 86.8 66.5 99.7





#31
 cis-1,2-Dichloroethene
 Concen: 8.864 ppbv
 RT: 2.732 min Scan# 81
 Delta R.T. 0.016 min
 Lab File: VL042230.D
 Acq: 07 Apr 2025 11:09

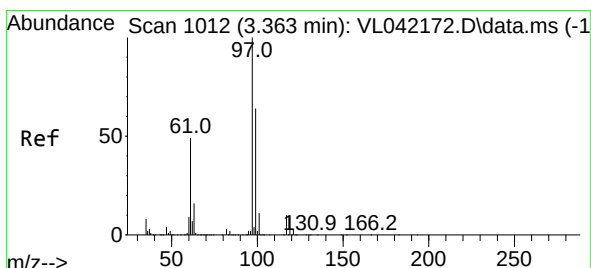
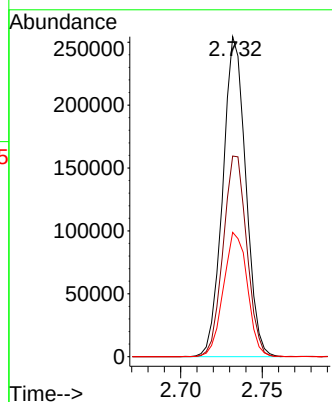
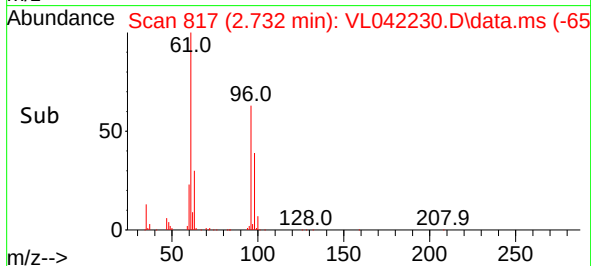
Instrument :
 MSVOA_L
 ClientSampleId :
 VL0407ABS01



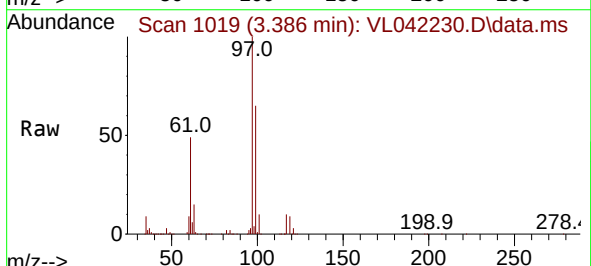
Tgt Ion: 61 Resp: 24959
 Ion Ratio Lower Upper
 61 100
 96 62.7 51.8 77.8
 98 38.8 30.6 46.0

Manual Integrations
 APPROVED

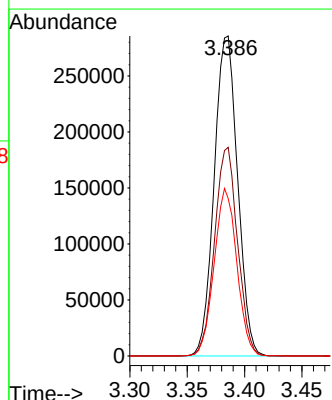
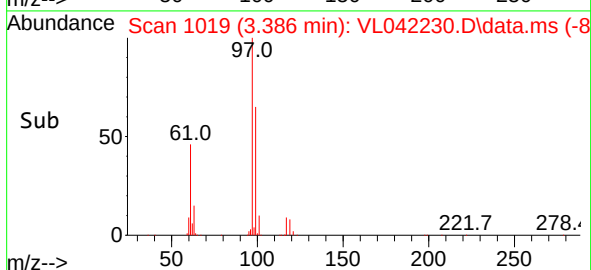
Reviewed By :Semsettin Yesilyurt 04/08/2025
 Supervised By :Mahesh Dadoda 04/09/2025

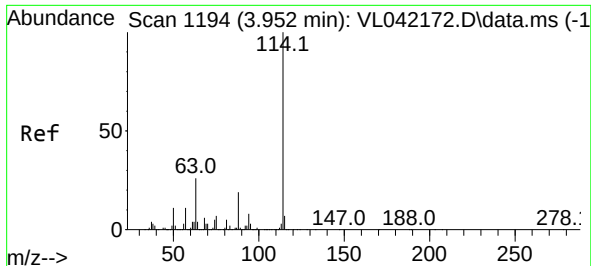


#32
 1,1,1-Trichloroethane
 Concen: 8.739 ppbv
 RT: 3.386 min Scan# 1019
 Delta R.T. 0.022 min
 Lab File: VL042230.D
 Acq: 07 Apr 2025 11:09



Tgt Ion: 97 Resp: 406124
 Ion Ratio Lower Upper
 97 100
 99 64.0 51.5 77.3
 61 50.7 38.7 58.1





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.978 min Scan# 1194

Delta R.T. 0.026 min

Lab File: VL042230.D

Acq: 07 Apr 2025 11:09

Instrument :

MSVOA_L

ClientSampleId :

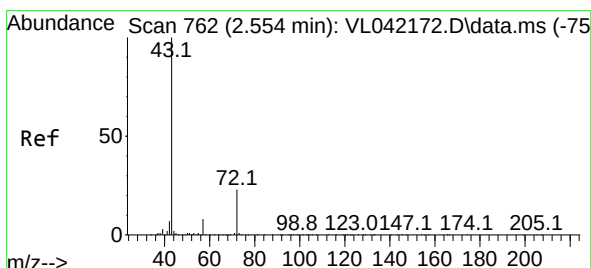
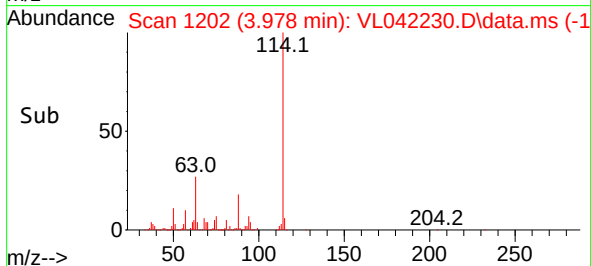
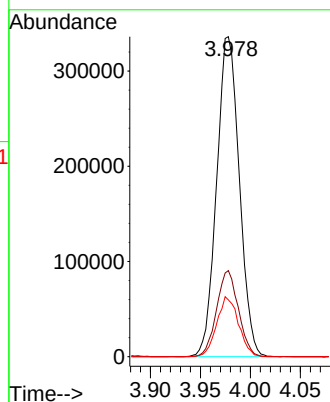
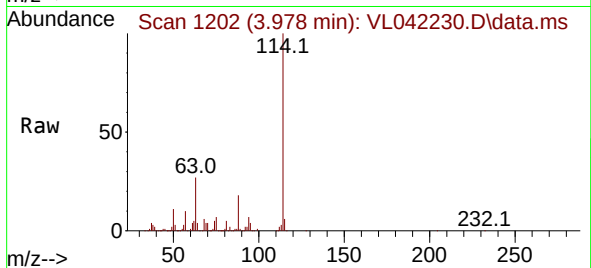
VL0407ABS01

Tgt Ion:	114	Resp:	53134
Ion Ratio	Lower	Upper	
114	100		
63	25.9	20.7	31.1
88	18.0	15.0	22.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/08/2025
Supervised By :Mahesh Dadoda 04/09/2025



#34

2-Butanone

Concen: 9.420 ppbv

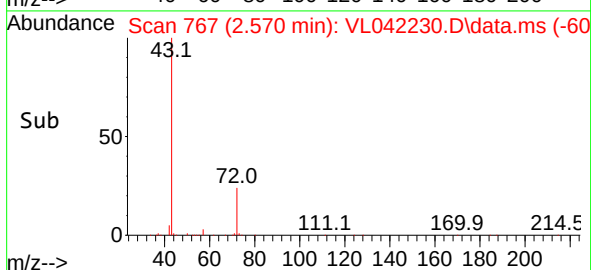
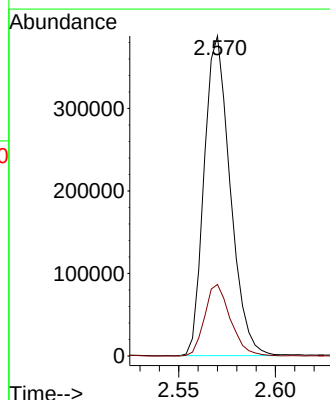
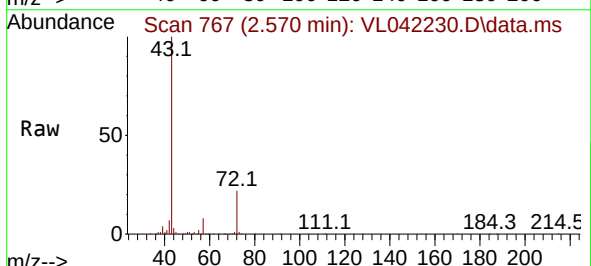
RT: 2.570 min Scan# 767

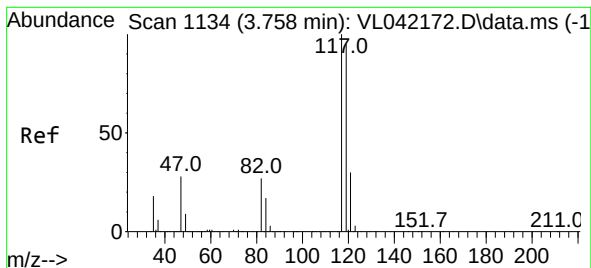
Delta R.T. 0.016 min

Lab File: VL042230.D

Acq: 07 Apr 2025 11:09

Tgt Ion:	43	Resp:	362939
Ion Ratio	Lower	Upper	
43	100		
72	22.3	18.2	27.2





#35

Carbon Tetrachloride

Concen: 10.079 ppbv

RT: 3.781 min Scan# 1134

Delta R.T. 0.022 min

Lab File: VL042230.D

Acq: 07 Apr 2025 11:09

Instrument :

MSVOA_L

ClientSampleId :

VL0407ABS01

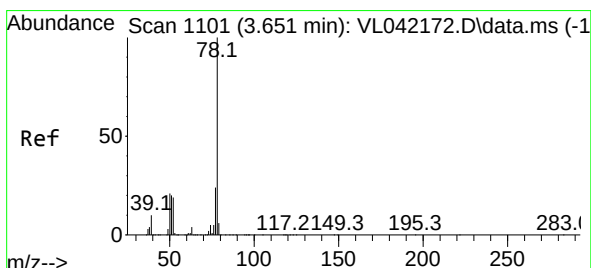
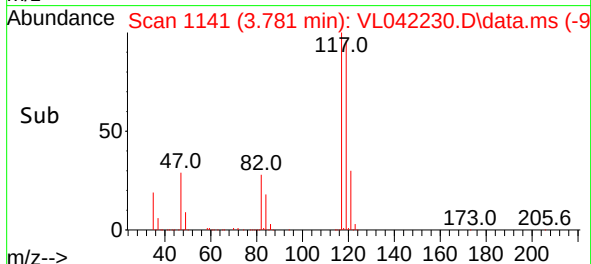
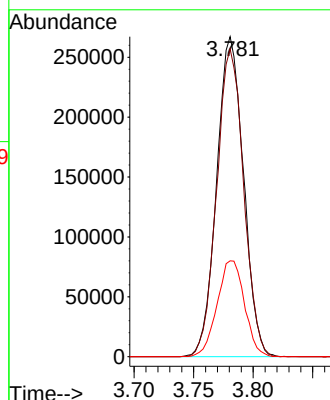
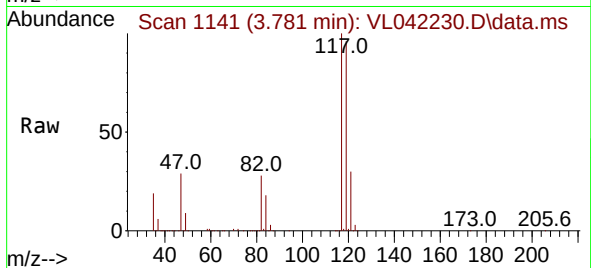
Tgt Ion:117 Resp: 41836

Ion	Ratio	Lower	Upper
117	100		
119	96.2	76.2	114.2
121	29.9	24.2	36.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/08/2025
Supervised By :Mahesh Dadoda 04/09/2025



#36

Benzene

Concen: 9.382 ppbv

RT: 3.674 min Scan# 1108

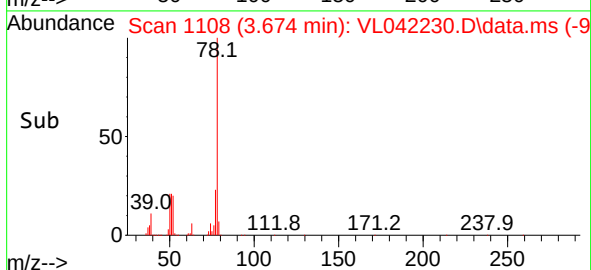
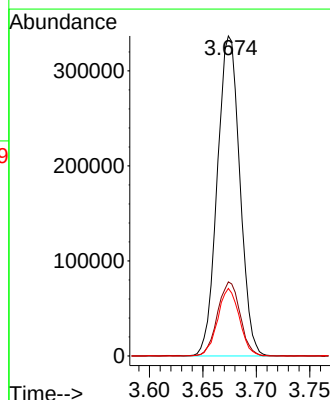
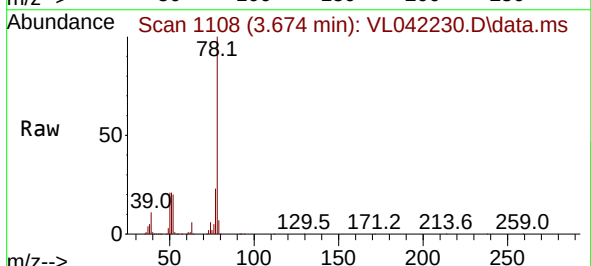
Delta R.T. 0.022 min

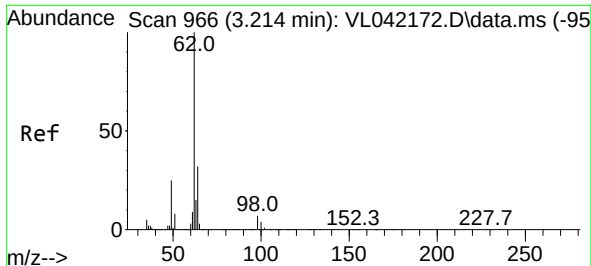
Lab File: VL042230.D

Acq: 07 Apr 2025 11:09

Tgt Ion: 78 Resp: 494216

Ion	Ratio	Lower	Upper
78	100		
77	23.1	19.1	28.7
50	21.1	16.6	24.8





#37

1,2-Dichloroethane

Concen: 10.424 ppbv

RT: 3.234 min Scan# 91

Delta R.T. 0.019 min

Lab File: VL042230.D

Acq: 07 Apr 2025 11:09

Instrument :

MSVOA_L

ClientSampleId :

VL0407ABS01

Tgt Ion: 62 Resp: 31437

Ion Ratio Lower Upper

62 100

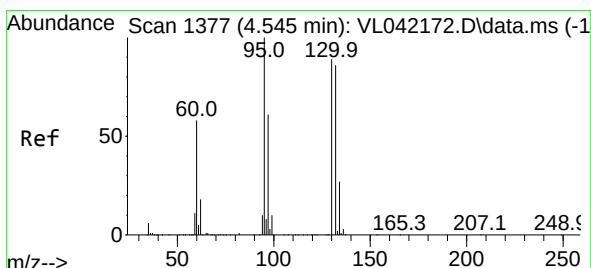
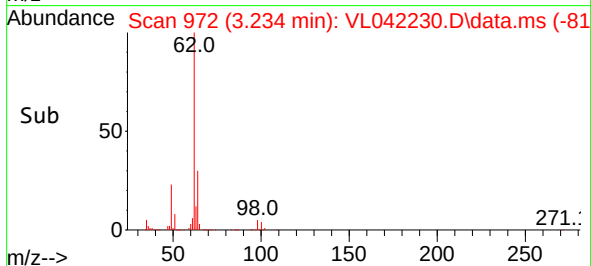
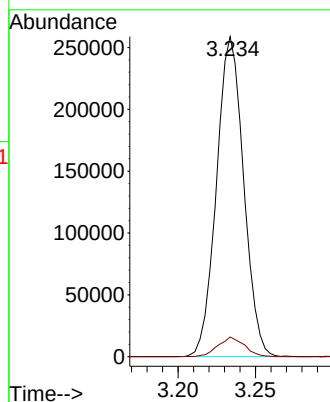
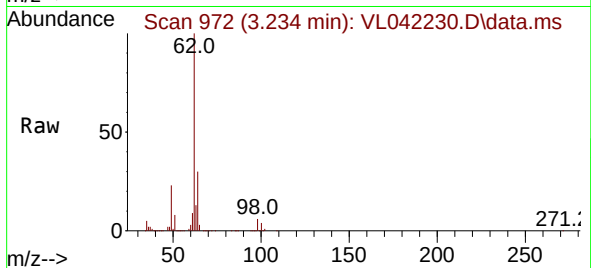
98 6.0 5.4 8.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/08/2025

Supervised By :Mahesh Dadoda 04/09/2025



#38

Trichloroethene

Concen: 9.217 ppbv

RT: 4.570 min Scan# 1385

Delta R.T. 0.026 min

Lab File: VL042230.D

Acq: 07 Apr 2025 11:09

Tgt Ion:130 Resp: 202575

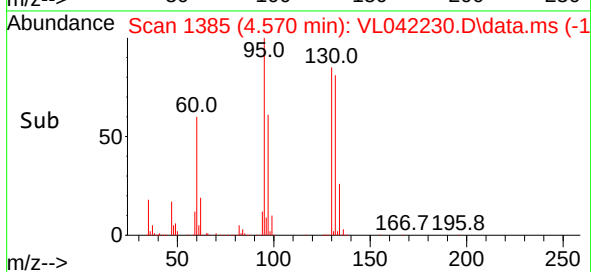
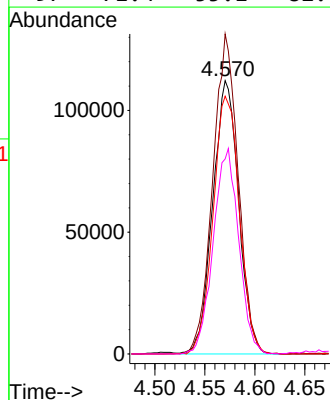
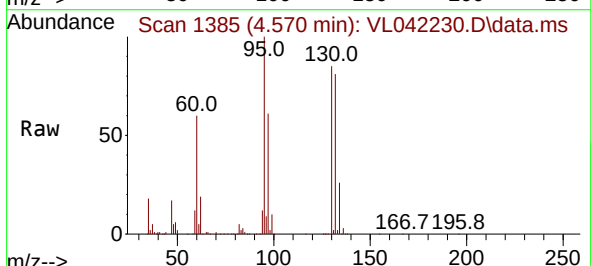
Ion Ratio Lower Upper

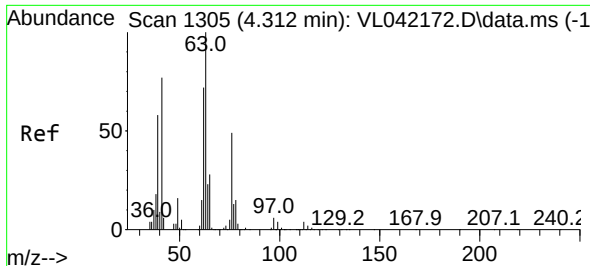
130 100

95 117.1 89.8 134.8

132 94.3 77.4 116.2

97 71.4 55.1 82.7





#39

1,2-Dichloropropane

Concen: 9.356 ppbv

RT: 4.334 min Scan# 11

Delta R.T. 0.022 min

Lab File: VL042230.D

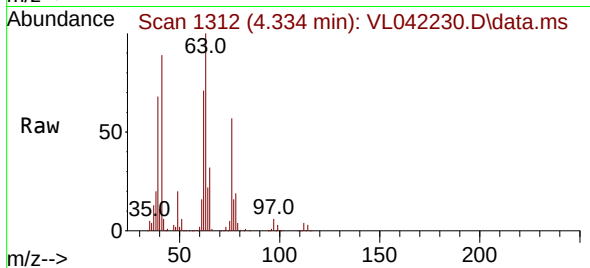
Acq: 07 Apr 2025 11:09

Instrument :

MSVOA_L

ClientSampleId :

VL0407ABS01



Tgt Ion: 63 Resp: 17948

Ion Ratio Lower Upper

63 100

41 89.1 61.7 92.5

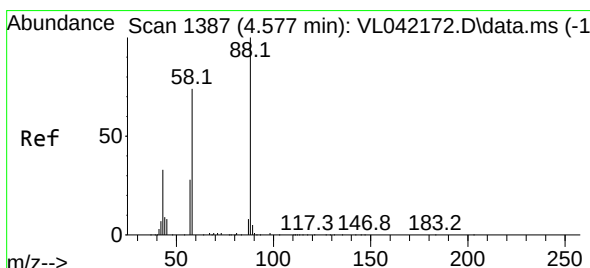
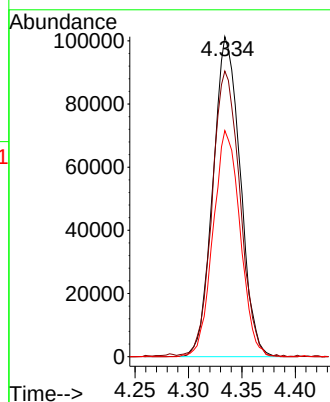
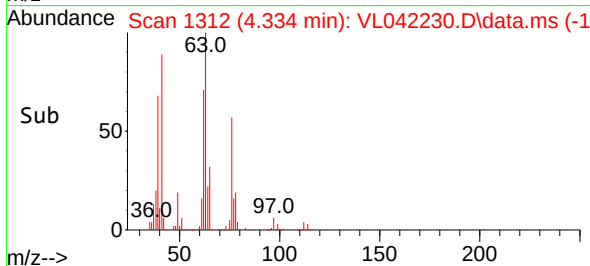
62 70.5 57.6 86.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/08/2025

Supervised By :Mahesh Dadoda 04/09/2025



#40

1,4-Dioxane

Concen: 8.358 ppbv

RT: 4.606 min Scan# 1396

Delta R.T. 0.029 min

Lab File: VL042230.D

Acq: 07 Apr 2025 11:09

Tgt Ion: 88 Resp: 85103

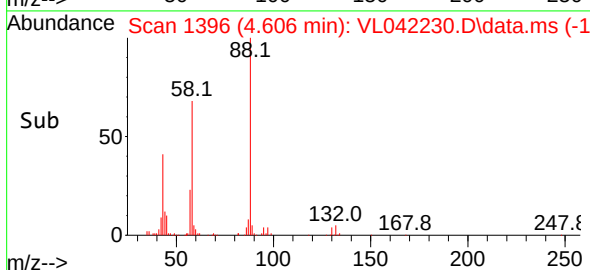
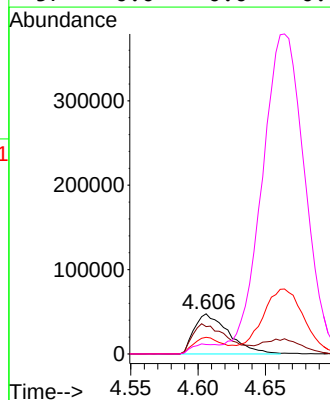
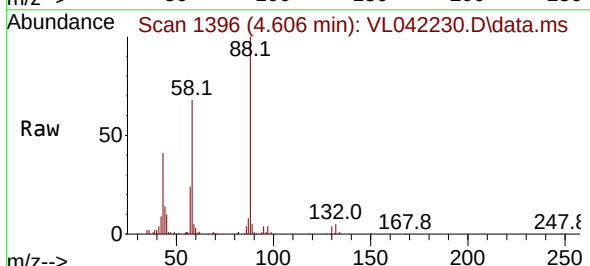
Ion Ratio Lower Upper

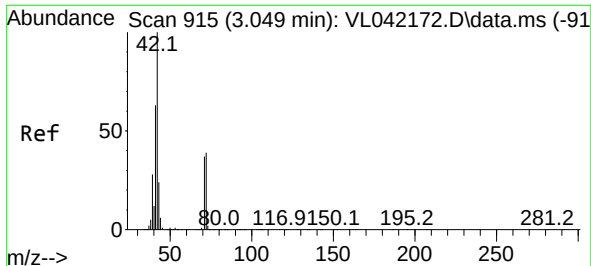
88 100

58 75.6 62.7 94.1

43 37.4 23.0 34.4#

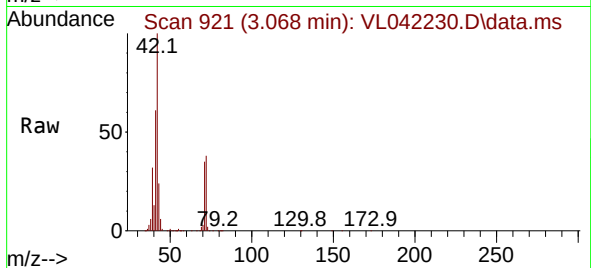
57 0.0 0.0 0.0





#41
Tetrahydrofuran
Concen: 9.071 ppbv
RT: 3.068 min Scan# 915
Delta R.T. 0.019 min
Lab File: VL042230.D
Acq: 07 Apr 2025 11:09

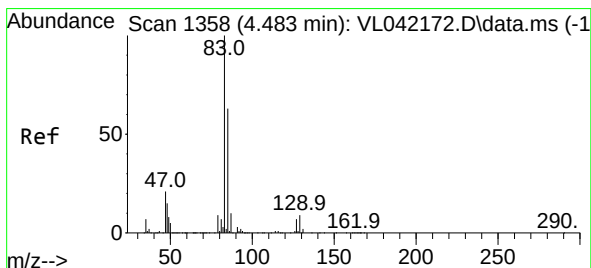
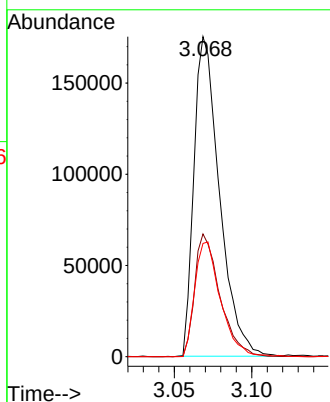
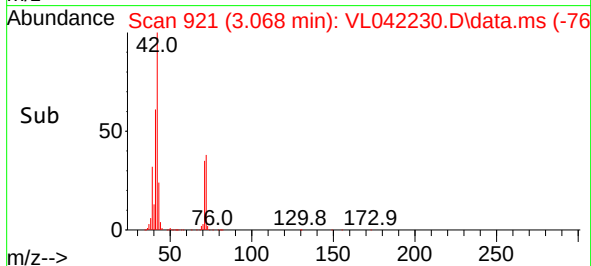
Instrument :
MSVOA_L
ClientSampleId :
VL0407ABS01



Tgt Ion: 42 Resp: 201260
Ion Ratio Lower Upper
42 100
72 37.8 31.4 47.0
71 36.3 30.2 45.4

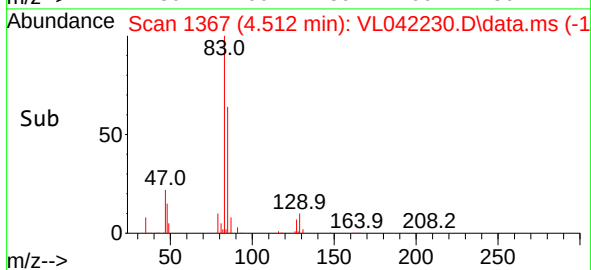
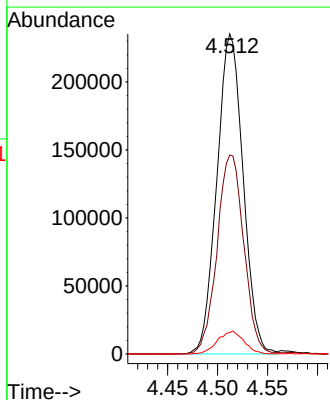
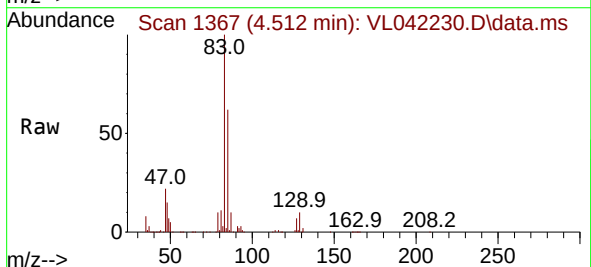
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APPROVED

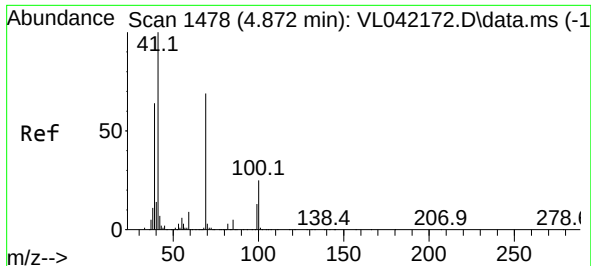
Reviewed By :Semsettin Yesilyurt 04/08/2025
Supervised By :Mahesh Dadoda 04/09/2025



#42
Bromodichloromethane
Concen: 10.361 ppbv
RT: 4.512 min Scan# 1367
Delta R.T. 0.029 min
Lab File: VL042230.D
Acq: 07 Apr 2025 11:09

Tgt Ion: 83 Resp: 430763
Ion Ratio Lower Upper
83 100
85 62.1 50.5 75.7
127 6.7 5.9 8.9





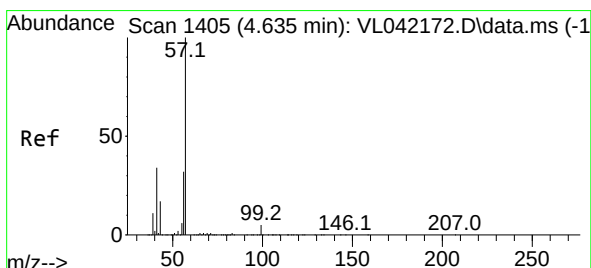
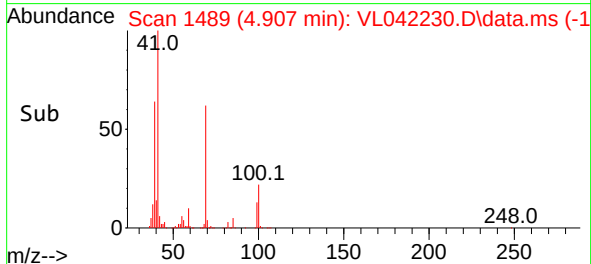
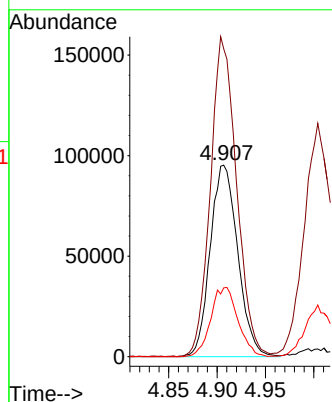
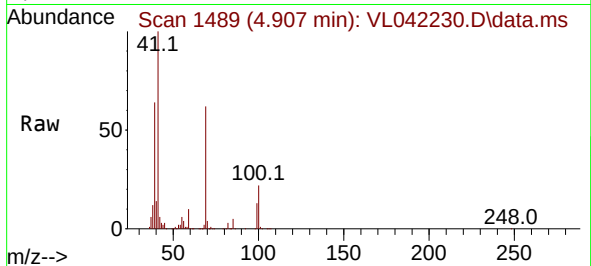
#43
Methyl Methacrylate
Concen: 8.470 ppbv
RT: 4.907 min Scan# 1414
Delta R.T. 0.035 min
Lab File: VL042230.D
Acq: 07 Apr 2025 11:09

Instrument :
MSVOA_L
ClientSampleId :
VL0407ABS01

Tgt Ion: 69 Resp: 188872
Ion Ratio Lower Upper
69 100
41 158.5 123.8 185.6
100 35.6 28.4 42.6

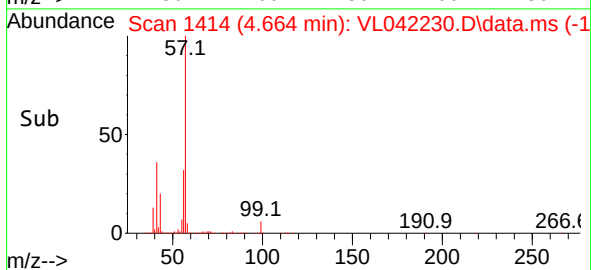
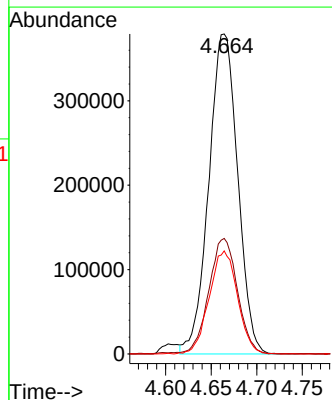
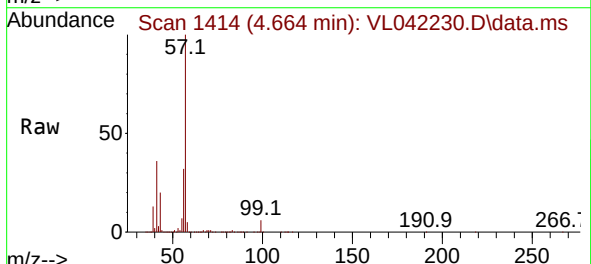
Manual Integrations
APPROVED

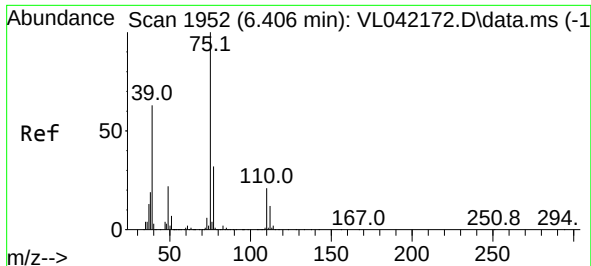
Reviewed By :Semsettin Yesilyurt 04/08/2025
Supervised By :Mahesh Dadoda 04/09/2025



#44
2,2,4-Trimethylpentane
Concen: 9.414 ppbv
RT: 4.664 min Scan# 1414
Delta R.T. 0.029 min
Lab File: VL042230.D
Acq: 07 Apr 2025 11:09

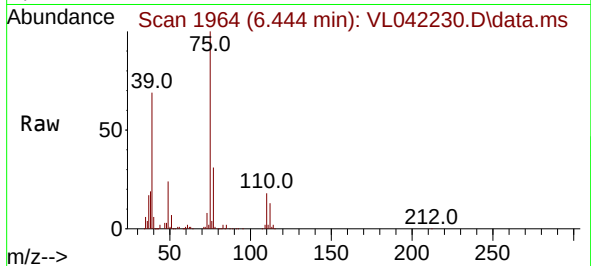
Tgt Ion: 57 Resp: 838005
Ion Ratio Lower Upper
57 100
41 36.2 26.8 40.2
56 31.7 25.6 38.4





#45
 t-1,3-Dichloropropene
 Concen: 8.130 ppbv
 RT: 6.444 min Scan# 1952
 Delta R.T. 0.039 min
 Lab File: VL042230.D
 Acq: 07 Apr 2025 11:09

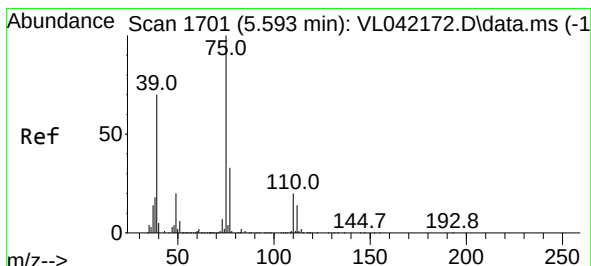
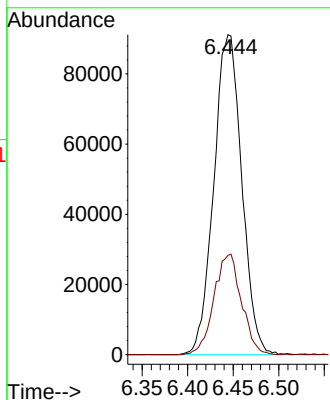
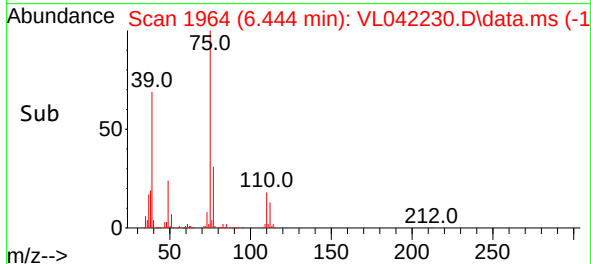
Instrument :
 MSVOA_L
 ClientSampleId :
 VL0407ABS01



Tgt Ion: 75 Resp: 19450
 Ion Ratio Lower Upper
 75 100
 77 31.1 26.0 39.0

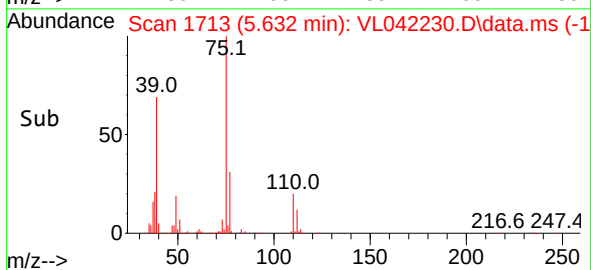
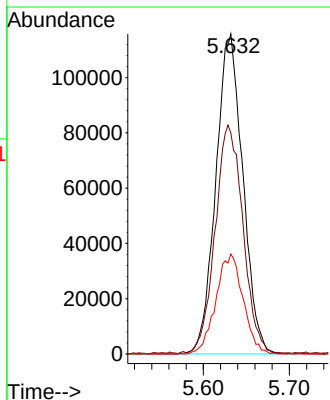
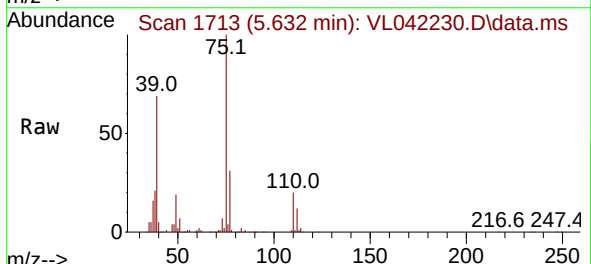
Manual Integrations
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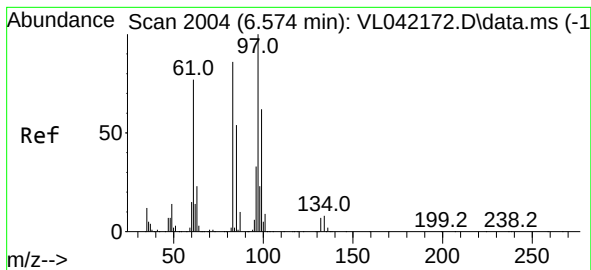
Reviewed By :Semsettin Yesilyurt 04/08/2025
 Supervised By :Mahesh Dadoda 04/09/2025



#46
 cis-1,3-Dichloropropene
 Concen: 8.601 ppbv
 RT: 5.632 min Scan# 1713
 Delta R.T. 0.039 min
 Lab File: VL042230.D
 Acq: 07 Apr 2025 11:09

Tgt Ion: 75 Resp: 252229
 Ion Ratio Lower Upper
 75 100
 39 69.0 55.8 83.6
 77 31.3 26.0 39.0





#47

1,1,2-Trichloroethane

Concen: 9.959 ppbv

RT: 6.606 min Scan# 2014

Delta R.T. 0.032 min

Lab File: VL042230.D

Acq: 07 Apr 2025 11:09

Instrument :

MSVOA_L

ClientSampleId :

VL0407ABS01

Tgt Ion: 97 Resp: 201960

Ion Ratio Lower Upper

97 100

83 79.2 69.2 103.8

85 56.5 43.1 64.7

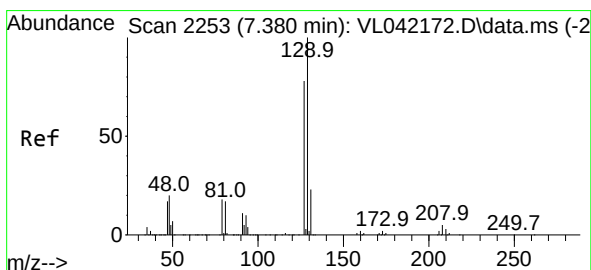
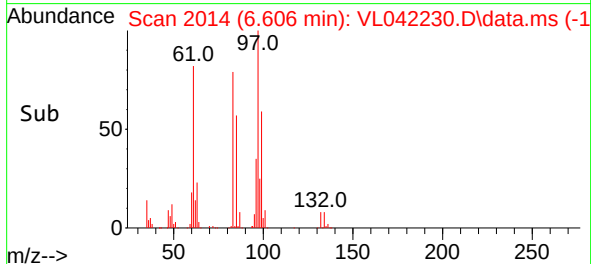
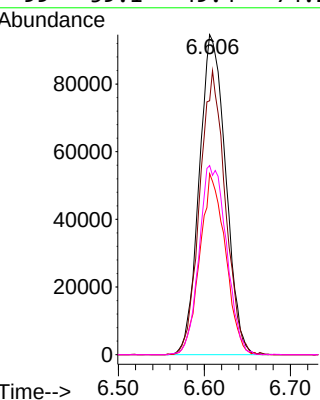
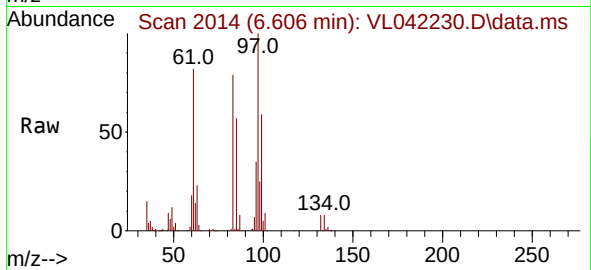
99 59.1 49.4 74.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/08/2025

Supervised By :Mahesh Dadoda 04/09/2025



#48

Dibromochloromethane

Concen: 10.007 ppbv

RT: 7.412 min Scan# 2263

Delta R.T. 0.032 min

Lab File: VL042230.D

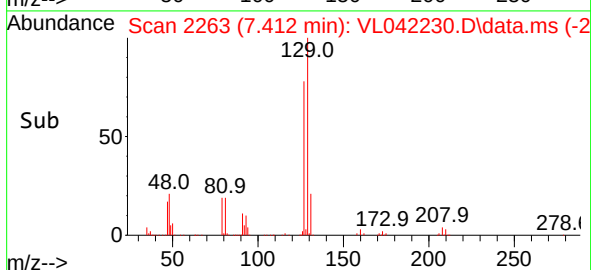
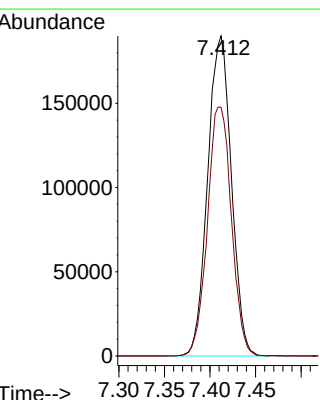
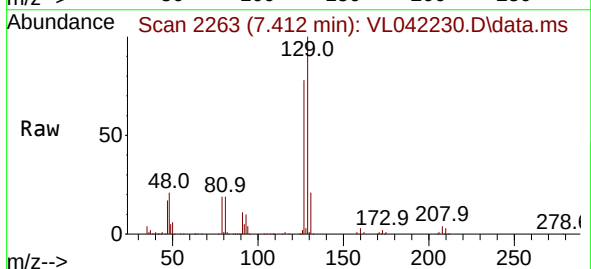
Acq: 07 Apr 2025 11:09

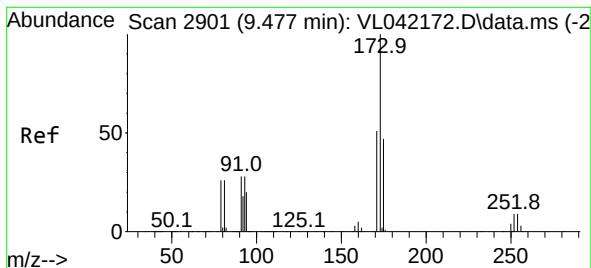
Tgt Ion:129 Resp: 343914

Ion Ratio Lower Upper

129 100

127 78.6 39.1 117.2





#49

Bromoform

Concen: 9.817 ppbv

RT: 9.500 min Scan# 2901

Delta R.T. 0.022 min

Lab File: VL042230.D

Acq: 07 Apr 2025 11:09

Instrument :

MSVOA_L

ClientSampleId :

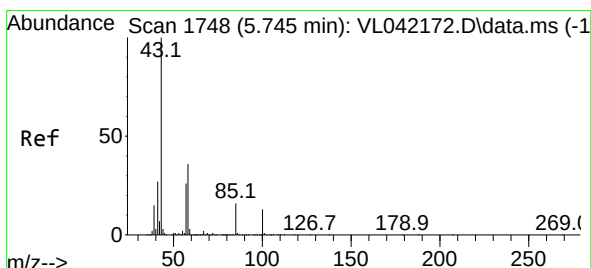
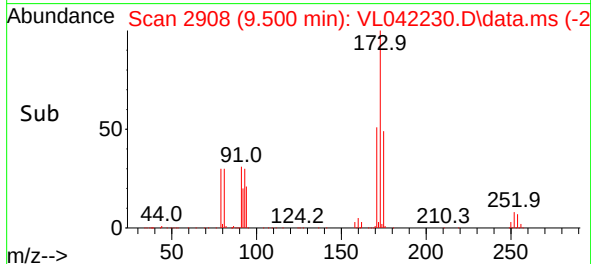
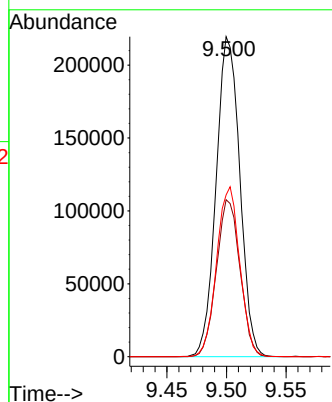
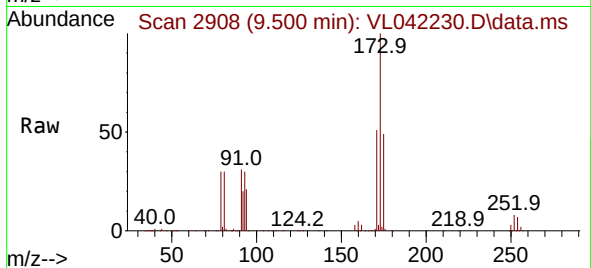
VL0407ABS01

Tgt Ion:173 Resp: 302914
 Ion Ratio Lower Upper
 173 100
 175 48.8 38.6 57.8
 171 52.0 41.8 62.6

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/08/2025
 Supervised By :Mahesh Dadoda 04/09/2025



#50

4-Methyl-2-Pentanone

Concen: 8.368 ppbv

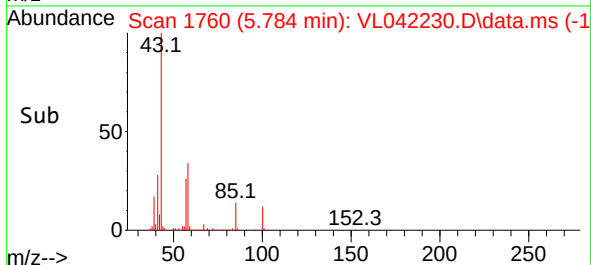
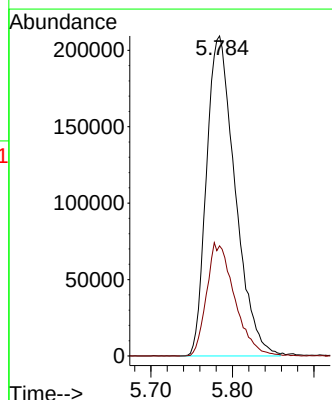
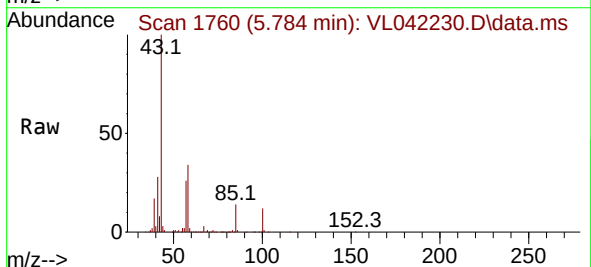
RT: 5.784 min Scan# 1760

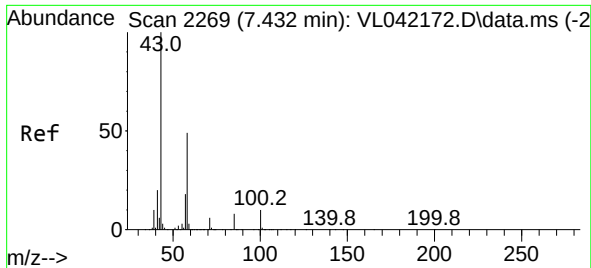
Delta R.T. 0.039 min

Lab File: VL042230.D

Acq: 07 Apr 2025 11:09

Tgt Ion: 43 Resp: 510960
 Ion Ratio Lower Upper
 43 100
 58 34.6 29.0 43.6





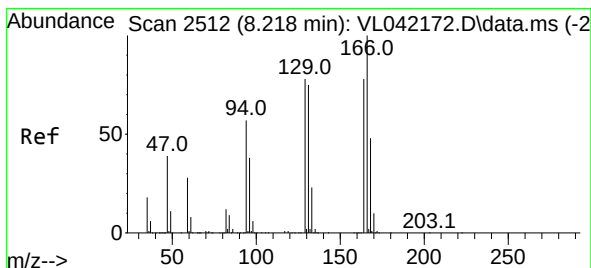
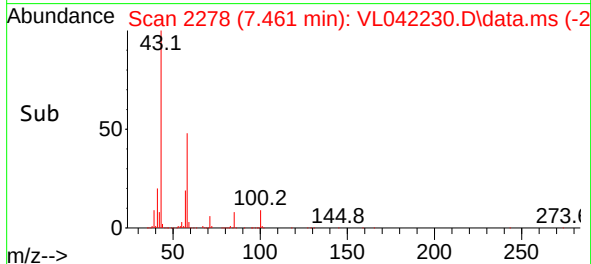
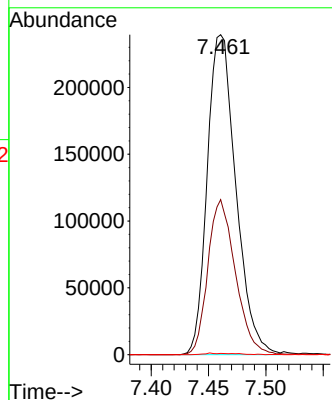
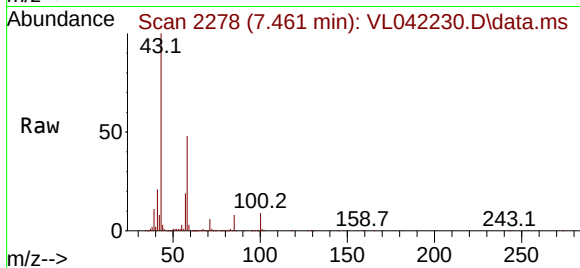
#51
2-Hexanone
Concen: 8.294 ppbv
RT: 7.461 min Scan# 21
Delta R.T. 0.029 min
Lab File: VL042230.D
Acq: 07 Apr 2025 11:09

Instrument :
MSVOA_L
ClientSampleId :
VL0407ABS01

Tgt Ion: 43 Resp: 41585
Ion Ratio Lower Upper
43 100
58 46.8 39.7 59.5
98 0.6 0.1 0.1

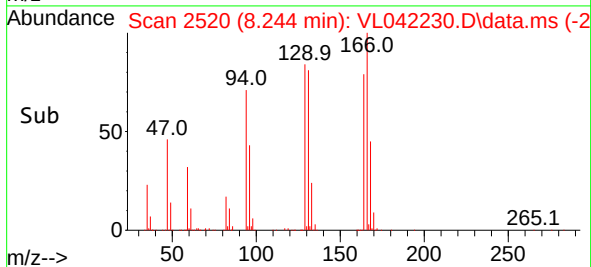
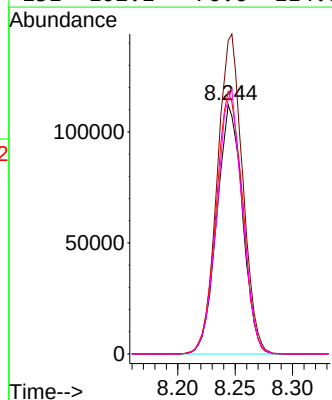
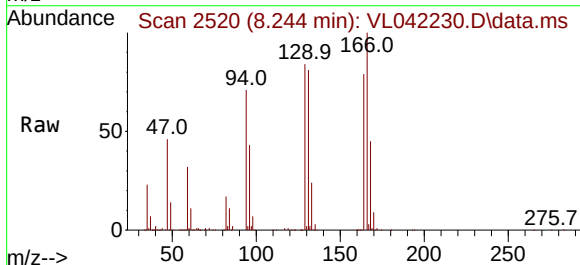
Manual Integrations
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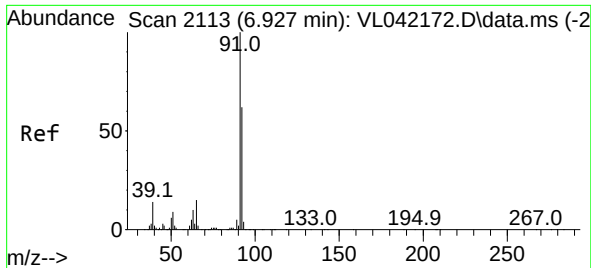
Reviewed By :Semsettin Yesilyurt 04/08/2025
Supervised By :Mahesh Dadoda 04/09/2025



#52
Tetrachloroethene
Concen: 8.359 ppbv
RT: 8.244 min Scan# 2520
Delta R.T. 0.026 min
Lab File: VL042230.D
Acq: 07 Apr 2025 11:09

Tgt Ion:164 Resp: 174622
Ion Ratio Lower Upper
164 100
166 125.9 102.5 153.7
129 105.3 79.8 119.8
131 102.1 76.6 114.8





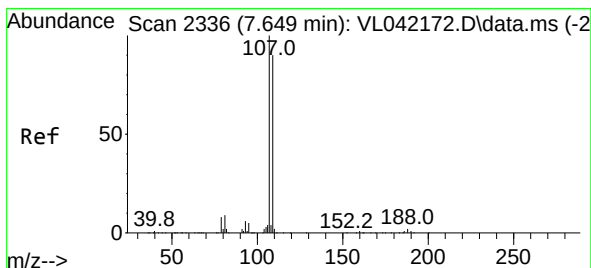
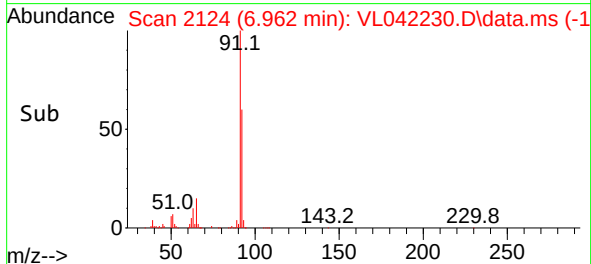
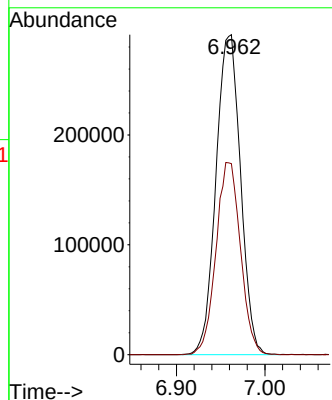
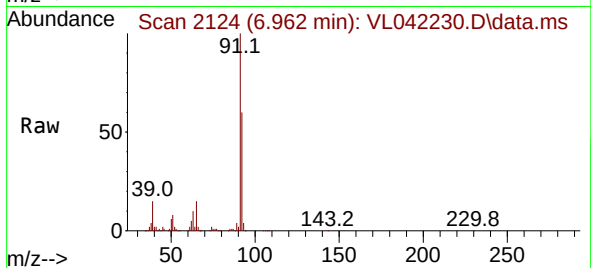
#53
Toluene
Concen: 9.007 ppbv
RT: 6.962 min Scan# 2113
Delta R.T. 0.035 min
Lab File: VL042230.D
Acq: 07 Apr 2025 11:09

Instrument :
MSVOA_L
ClientSampleId :
VL0407ABS01

Tgt Ion: 91 Resp: 562424
Ion Ratio Lower Upper
91 100
92 59.9 48.4 72.6

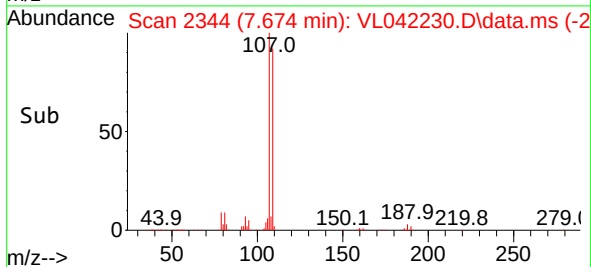
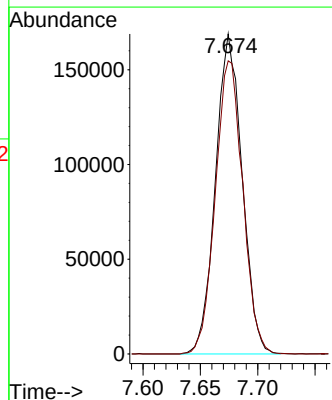
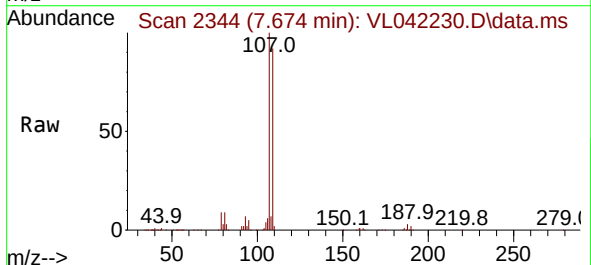
Manual Integrations
APPROVED

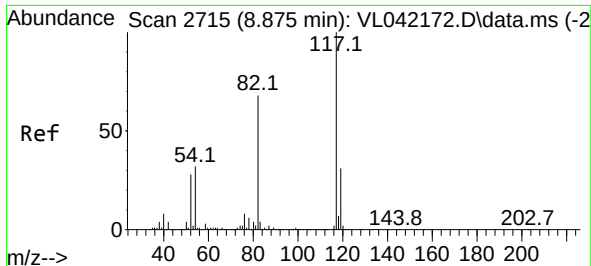
Reviewed By :Semsettin Yesilyurt 04/08/2025
Supervised By :Mahesh Dadoda 04/09/2025



#54
1,2-Dibromoethane
Concen: 9.646 ppbv
RT: 7.674 min Scan# 2344
Delta R.T. 0.026 min
Lab File: VL042230.D
Acq: 07 Apr 2025 11:09

Tgt Ion:107 Resp: 272683
Ion Ratio Lower Upper
107 100
109 91.6 72.2 108.4





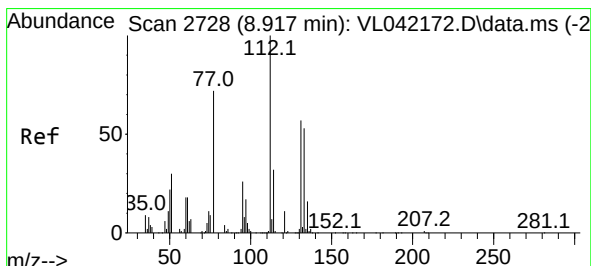
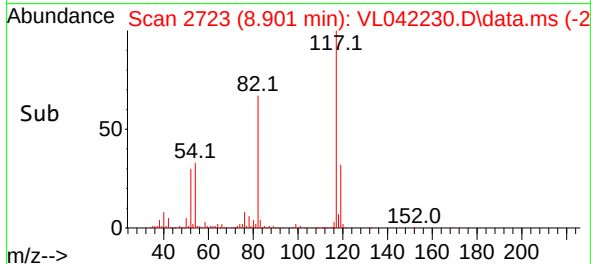
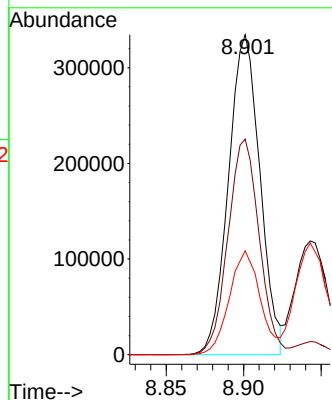
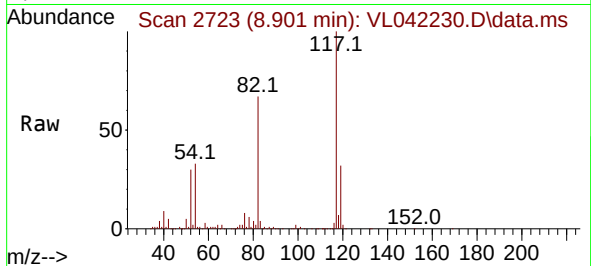
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.901 min Scan# 2715
Delta R.T. 0.026 min
Lab File: VL042230.D
Acq: 07 Apr 2025 11:09

Instrument :
MSVOA_L
ClientSampleId :
VL0407ABS01

Tgt Ion:117 Resp: 47398
Ion Ratio Lower Upper
117 100
82 70.8 55.8 83.6
119 32.2 25.5 38.3

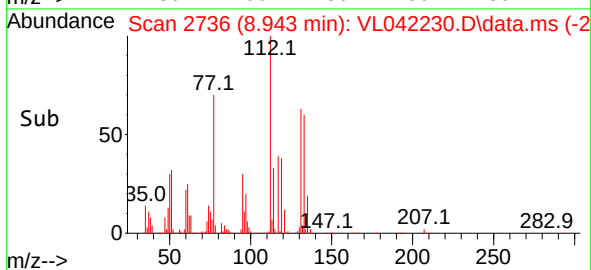
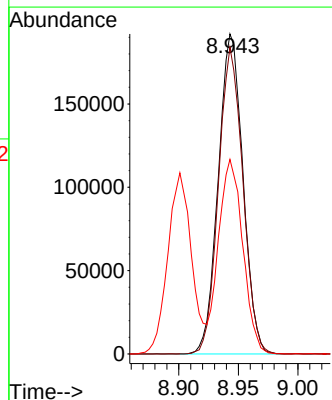
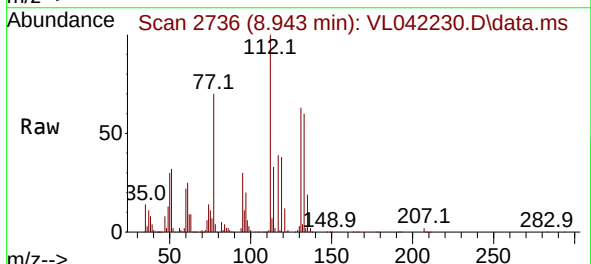
Manual Integrations
APPROVED

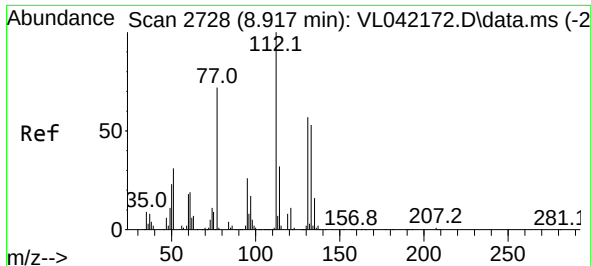
Reviewed By :Semsettin Yesilyurt 04/08/2025
Supervised By :Mahesh Dadoda 04/09/2025



#56
1,1,1,2-Tetrachloroethane
Concen: 10.608 ppbv
RT: 8.943 min Scan# 2736
Delta R.T. 0.026 min
Lab File: VL042230.D
Acq: 07 Apr 2025 11:09

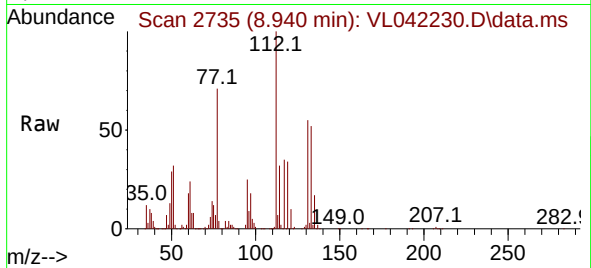
Tgt Ion:131 Resp: 276768
Ion Ratio Lower Upper
131 100
133 94.4 76.6 114.8
119 62.0 49.8 74.6





#57
Chlorobenzene
Concen: 10.204 ppbv
RT: 8.940 min Scan# 21
Delta R.T. 0.022 min
Lab File: VL042230.D
Acq: 07 Apr 2025 11:09

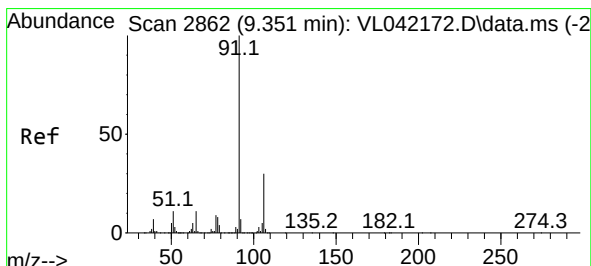
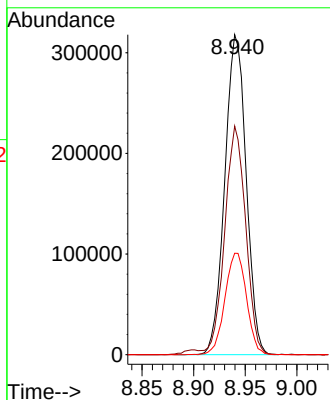
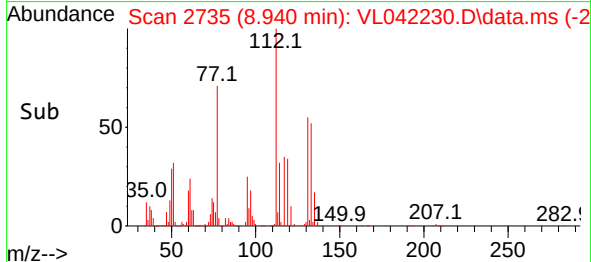
Instrument :
MSVOA_L
ClientSampleId :
VL0407ABS01



Tgt Ion:112 Resp: 458748
Ion Ratio Lower Upper
112 100
77 71.4 58.2 87.2
114 31.7 29.1 35.5

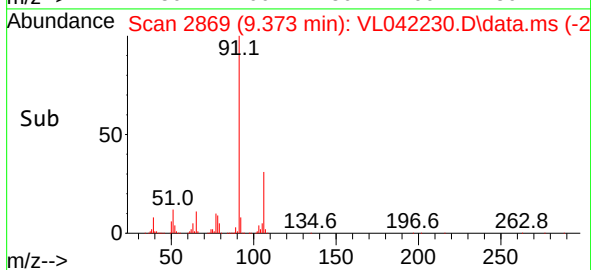
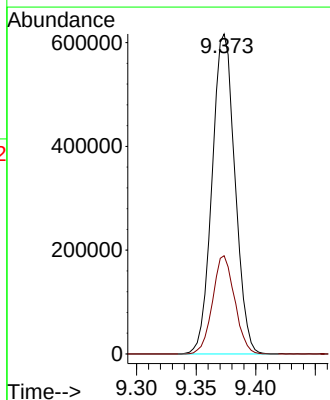
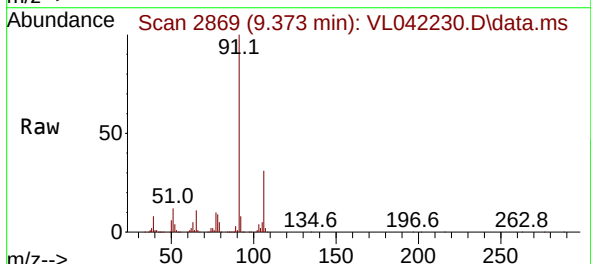
Manual Integrations
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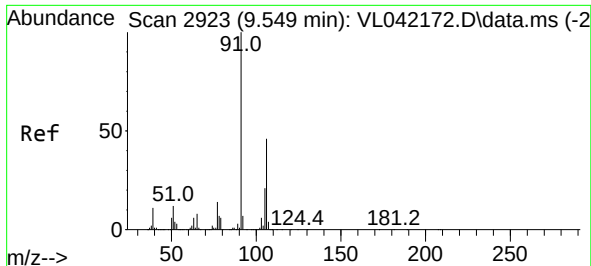
Reviewed By :Semsettin Yesilyurt 04/08/2025
Supervised By :Mahesh Dadoda 04/09/2025



#58
Ethyl Benzene
Concen: 9.754 ppbv
RT: 9.373 min Scan# 2869
Delta R.T. 0.022 min
Lab File: VL042230.D
Acq: 07 Apr 2025 11:09

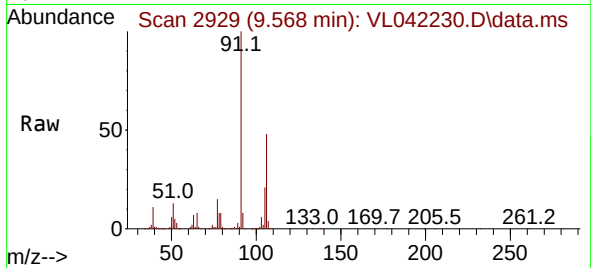
Tgt Ion: 91 Resp: 821248
Ion Ratio Lower Upper
91 100
106 30.7 24.2 36.2





#59
m/p-Xylene
Concen: 20.379 ppbv m
RT: 9.568 min Scan# 2929
Delta R.T. 0.019 min
Lab File: VL042230.D
Acq: 07 Apr 2025 11:09

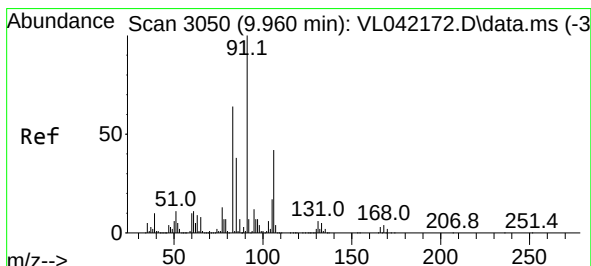
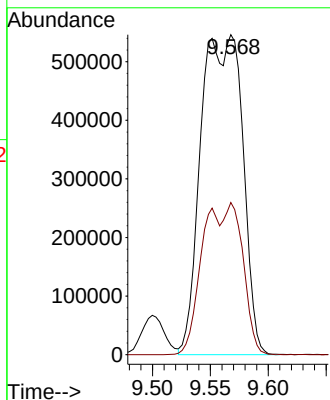
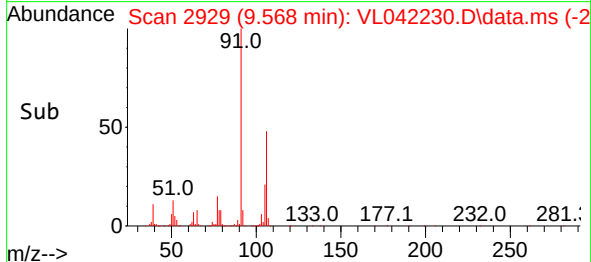
Instrument :
MSVOA_L
ClientSampleId :
VL0407ABS01



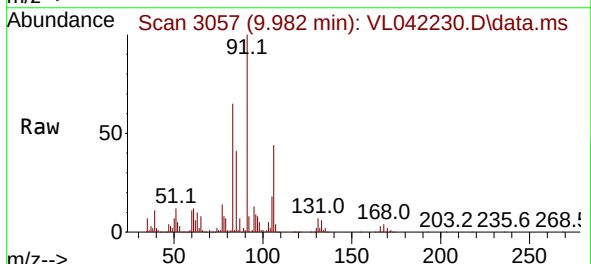
Tgt Ion: 91 Resp: 137003
Ion Ratio Lower Upper
91 100
106 45.8 36.4 54.6

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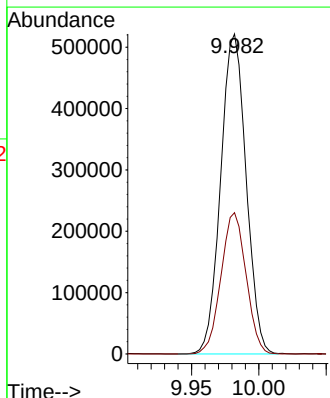
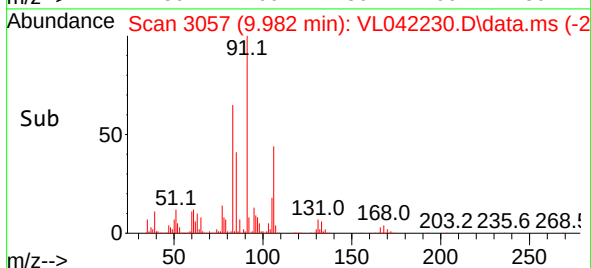
Reviewed By :Semsettin Yesilyurt 04/08/2025
Supervised By :Mahesh Dadoda 04/09/2025

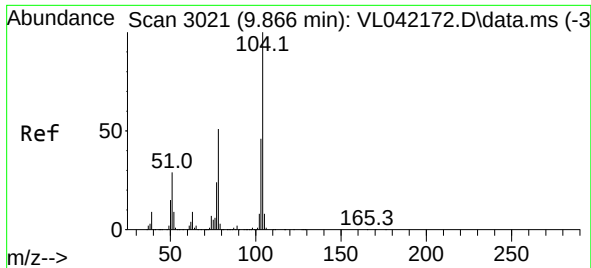


#60
o-Xylene
Concen: 10.160 ppbv
RT: 9.982 min Scan# 3057
Delta R.T. 0.022 min
Lab File: VL042230.D
Acq: 07 Apr 2025 11:09



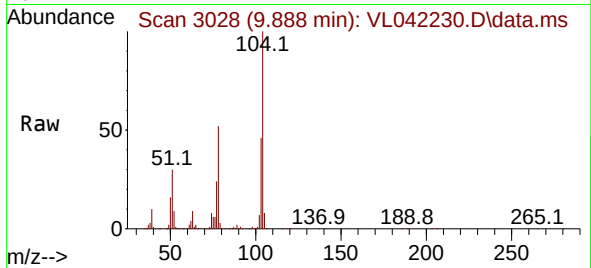
Tgt Ion: 91 Resp: 684704
Ion Ratio Lower Upper
91 100
106 43.6 20.8 62.5





#61
Styrene
Concen: 9.564 ppbv
RT: 9.888 min Scan# 3021
Delta R.T. 0.022 min
Lab File: VL042230.D
Acq: 07 Apr 2025 11:09

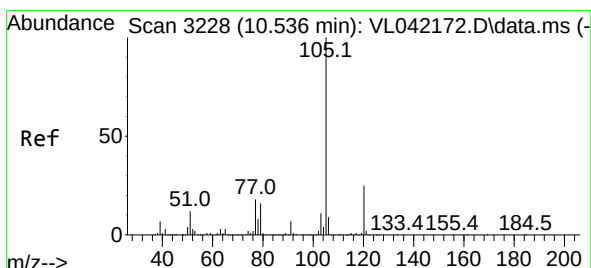
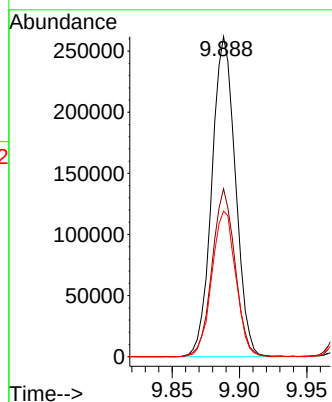
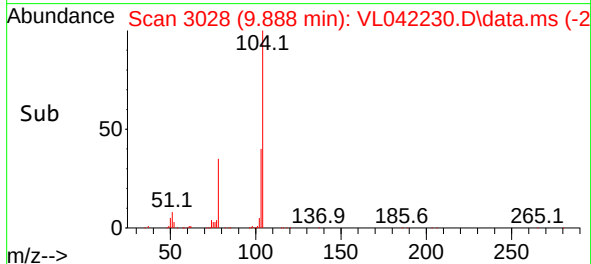
Instrument :
MSVOA_L
ClientSampleId :
VL0407ABS01



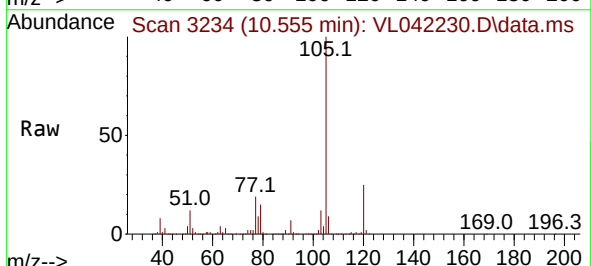
Tgt Ion:104 Resp: 318889
Ion Ratio Lower Upper
104 100
78 51.1 41.8 62.6
103 46.2 37.0 55.4

Manual Integrations
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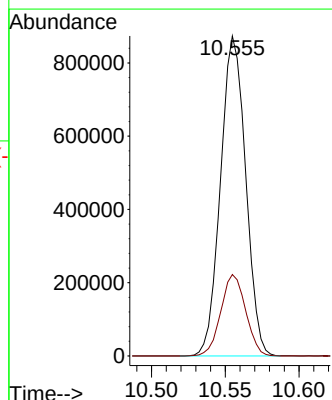
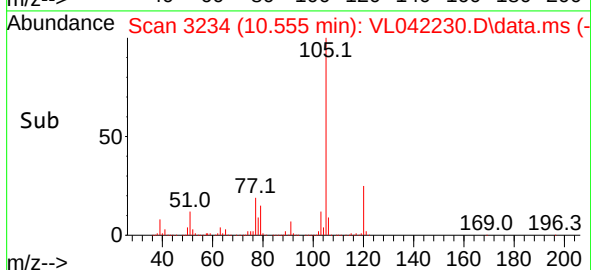
Reviewed By :Semsettin Yesilyurt 04/08/2025
Supervised By :Mahesh Dadoda 04/09/2025

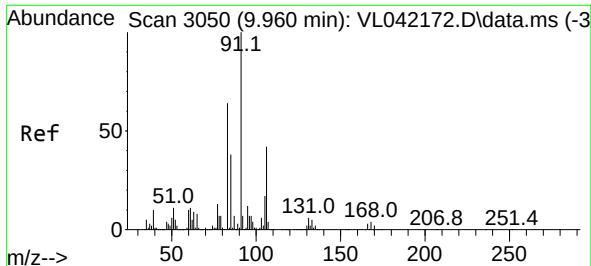


#62
Isopropylbenzene
Concen: 10.274 ppbv
RT: 10.555 min Scan# 3234
Delta R.T. 0.019 min
Lab File: VL042230.D
Acq: 07 Apr 2025 11:09



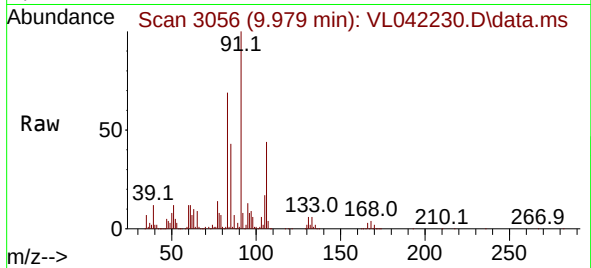
Tgt Ion:105 Resp: 1035385
Ion Ratio Lower Upper
105 100
120 25.2 19.9 29.9





#63
1,1,2,2-Tetrachloroethane
Concen: 10.816 ppbv
RT: 9.979 min Scan# 3050
Delta R.T. 0.019 min
Lab File: VL042230.D
Acq: 07 Apr 2025 11:09

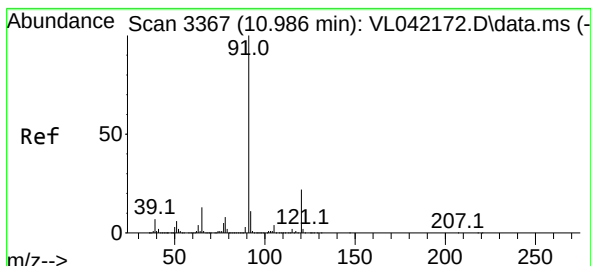
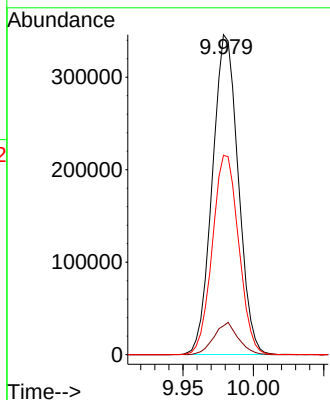
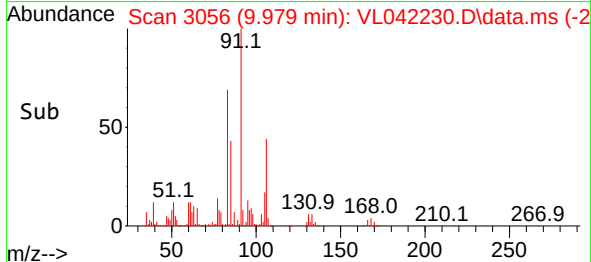
Instrument :
MSVOA_L
ClientSampleId :
VL0407ABS01



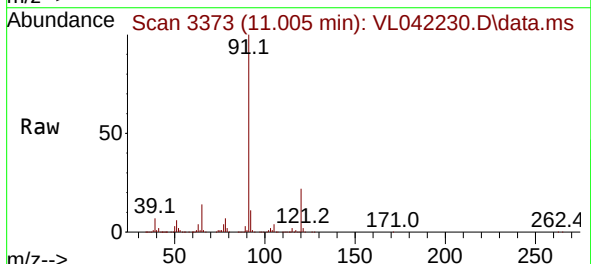
Tgt Ion: 83 Resp: 44287
Ion Ratio Lower Upper
83 100
131 9.5 4.8 14.4
85 63.6 32.5 97.5

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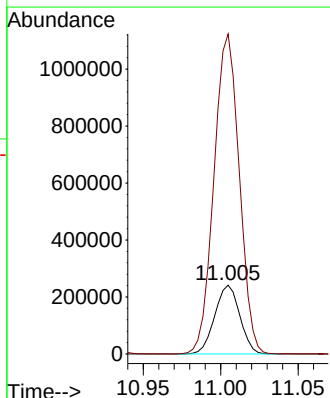
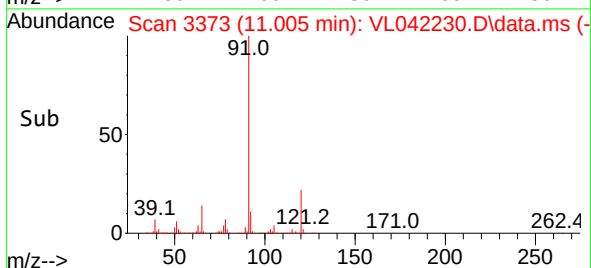
Reviewed By :Semsettin Yesilyurt 04/08/2025
Supervised By :Mahesh Dadoda 04/09/2025

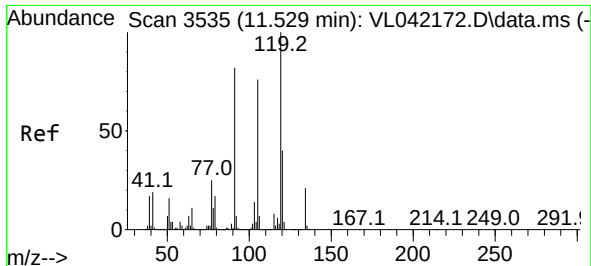


#64
n-propylbenzene
Concen: 10.422 ppbv
RT: 11.005 min Scan# 3373
Delta R.T. 0.019 min
Lab File: VL042230.D
Acq: 07 Apr 2025 11:09



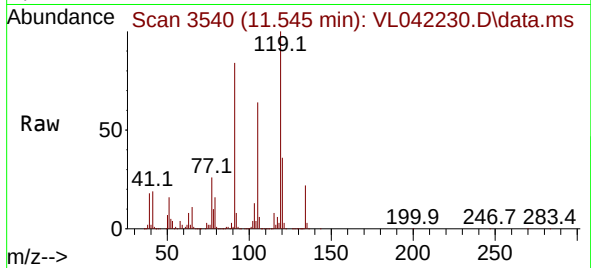
Tgt Ion:120 Resp: 270373
Ion Ratio Lower Upper
120 100
91 472.5 376.9 565.3





#65
tert-Butylbenzene
Concen: 10.135 ppbv
RT: 11.545 min Scan# 3535
Delta R.T. 0.016 min
Lab File: VL042230.D
Acq: 07 Apr 2025 11:09

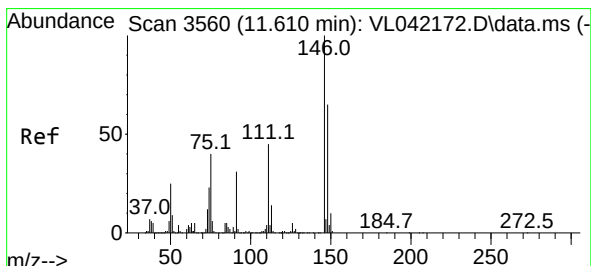
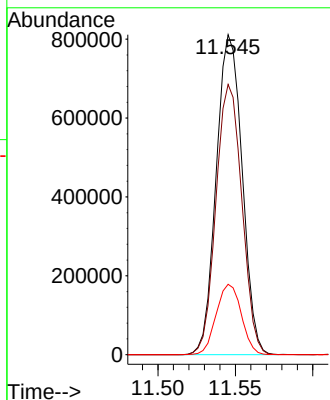
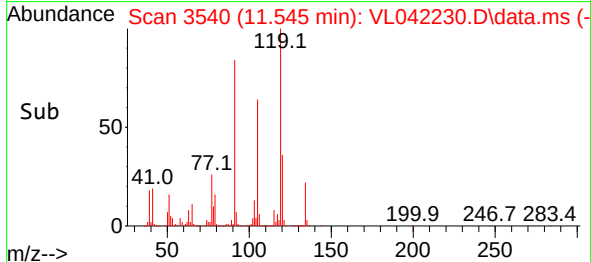
Instrument :
MSVOA_L
ClientSampleId :
VL0407ABS01



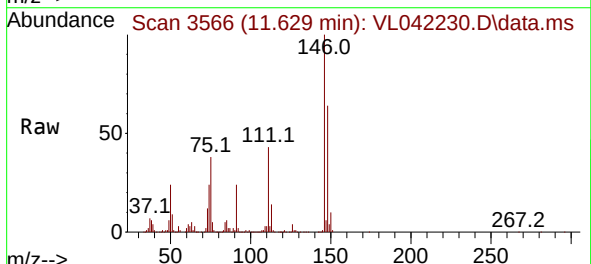
Tgt Ion: 119 Resp: 944630
Ion Ratio Lower Upper
119 100
91 84.4 66.0 99.0
134 21.3 16.7 25.1

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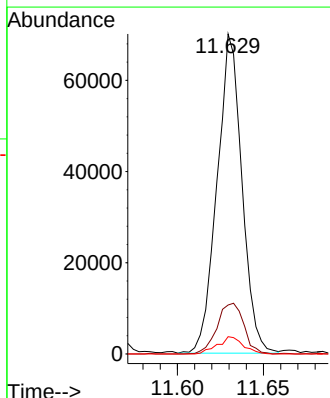
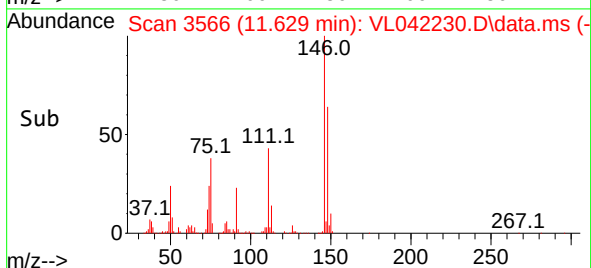
Reviewed By :Semsettin Yesilyurt 04/08/2025
Supervised By :Mahesh Dadoda 04/09/2025

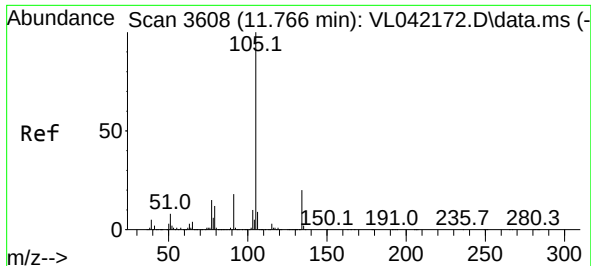


#66
Benzyl Chloride
Concen: 7.123 ppbv
RT: 11.629 min Scan# 3566
Delta R.T. 0.019 min
Lab File: VL042230.D
Acq: 07 Apr 2025 11:09



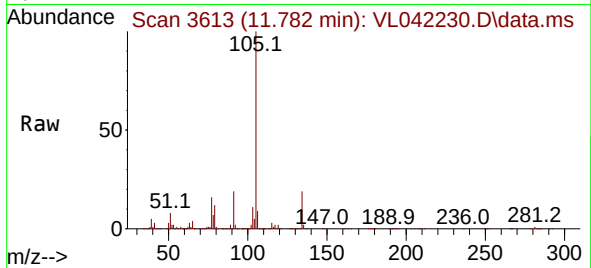
Tgt Ion: 91 Resp: 70444
Ion Ratio Lower Upper
91 100
126 17.2 13.8 20.6
128 5.5 4.5 6.7





#67
 sec-Butylbenzene
 Concen: 10.395 ppbv
 RT: 11.782 min Scan# 3613
 Delta R.T. 0.016 min
 Lab File: VL042230.D
 Acq: 07 Apr 2025 11:09

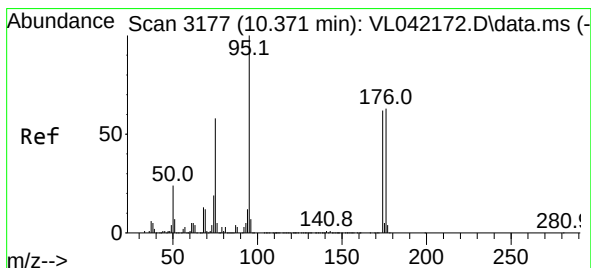
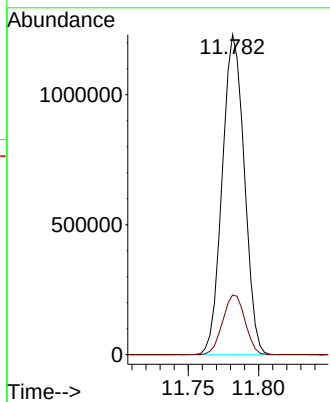
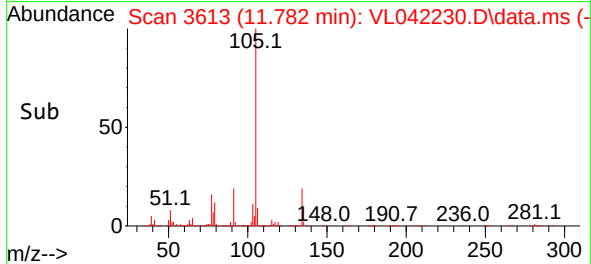
Instrument :
 MSVOA_L
 ClientSampleId :
 VL0407ABS01



Tgt Ion: 105 Resp: 134668
 Ion Ratio Lower Upper
 105 100
 134 18.9 15.5 23.3

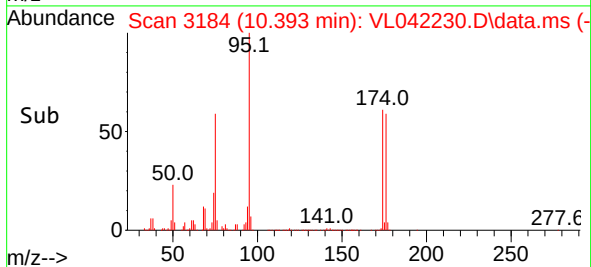
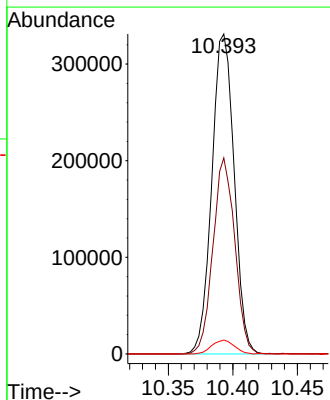
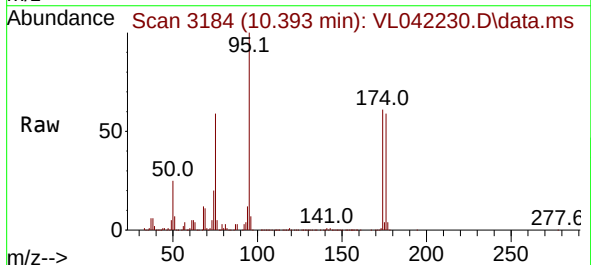
Manual Integrations
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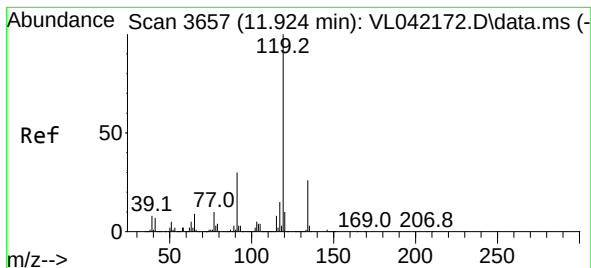
Reviewed By :Semsettin Yesilyurt 04/08/2025
 Supervised By :Mahesh Dadoda 04/09/2025



#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.233 ppbv
 RT: 10.393 min Scan# 3184
 Delta R.T. 0.022 min
 Lab File: VL042230.D
 Acq: 07 Apr 2025 11:09

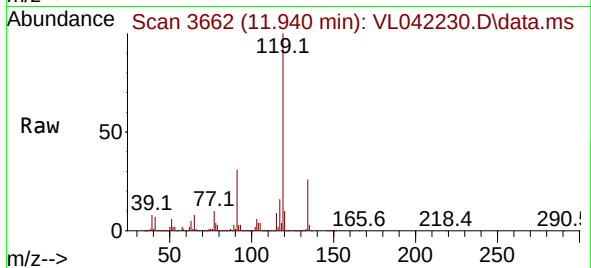
Tgt Ion: 95 Resp: 398322
 Ion Ratio Lower Upper
 95 100
 174 60.0 50.6 76.0
 175 4.4 3.8 5.6





#69
 p-Isopropyltoluene
 Concen: 10.321 ppbv
 RT: 11.940 min Scan# 3662
 Delta R.T. 0.016 min
 Lab File: VL042230.D
 Acq: 07 Apr 2025 11:09

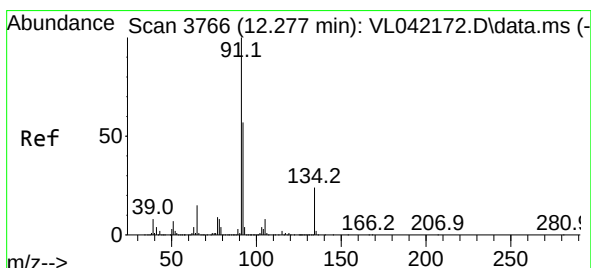
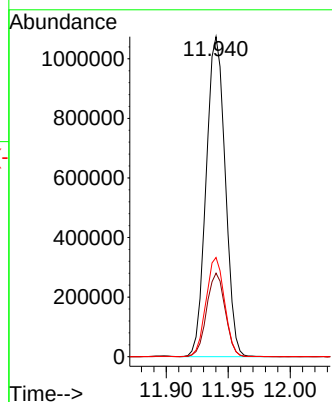
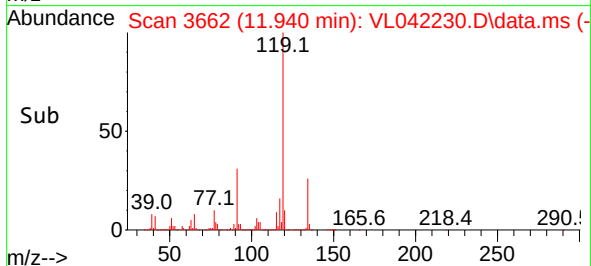
Instrument :
 MSVOA_L
 ClientSampleId :
 VL0407ABS01



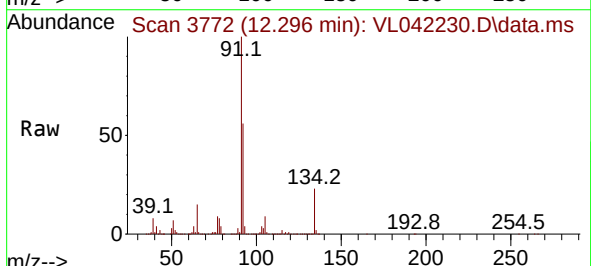
Tgt Ion: 119 Resp: 1151394
 Ion Ratio Lower Upper
 119 100
 134 25.4 20.4 30.6
 91 30.3 23.7 35.5

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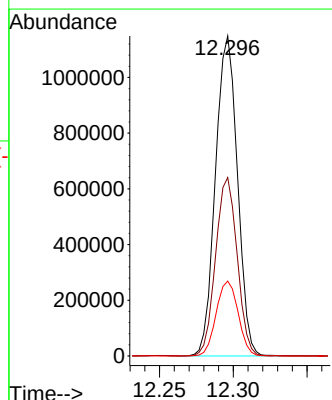
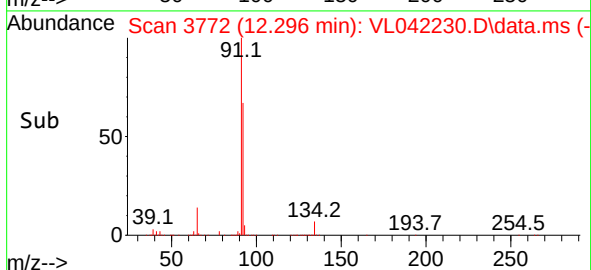
Reviewed By :Semsettin Yesilyurt 04/08/2025
 Supervised By :Mahesh Dadoda 04/09/2025

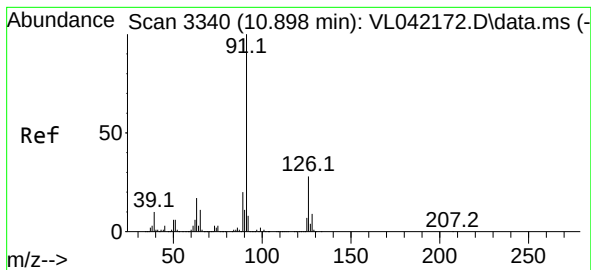


#70
 n-Butylbenzene
 Concen: 10.437 ppbv
 RT: 12.296 min Scan# 3772
 Delta R.T. 0.019 min
 Lab File: VL042230.D
 Acq: 07 Apr 2025 11:09



Tgt Ion: 91 Resp: 1190709
 Ion Ratio Lower Upper
 91 100
 92 54.9 44.9 67.3
 134 23.4 19.2 28.8





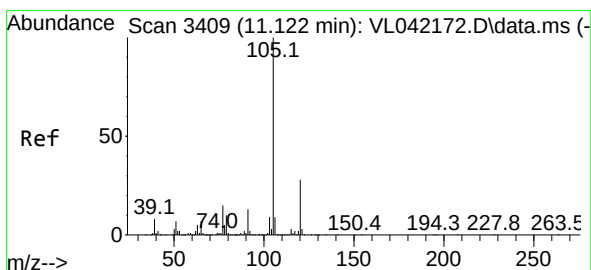
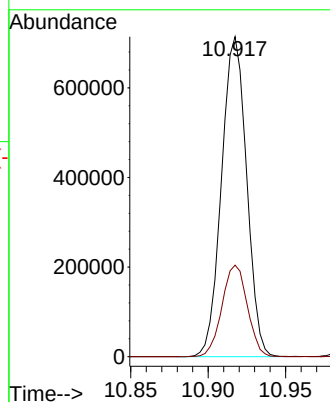
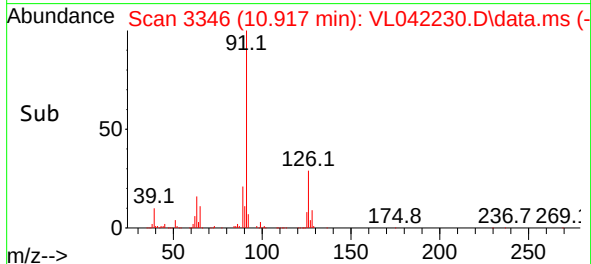
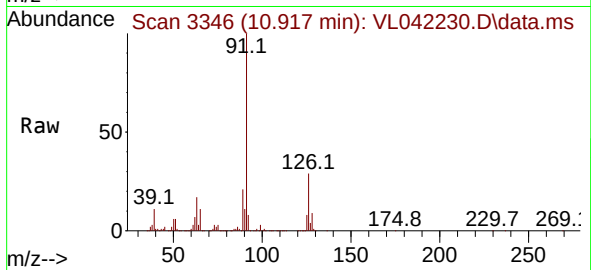
#71
2-Chlorotoluene
Concen: 10.276 ppbv
RT: 10.917 min Scan# 31
Delta R.T. 0.019 min
Lab File: VL042230.D
Acq: 07 Apr 2025 11:09

Instrument :
MSVOA_L
ClientSampleId :
VL0407ABS01

Tgt Ion: 91 Resp: 803764
Ion Ratio Lower Upper
91 100
126 28.9 11.6 46.4

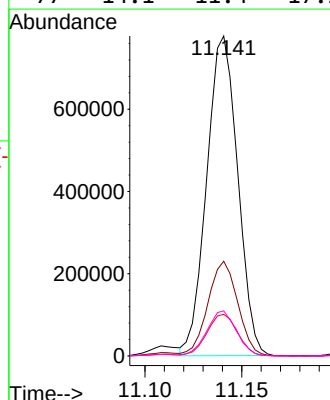
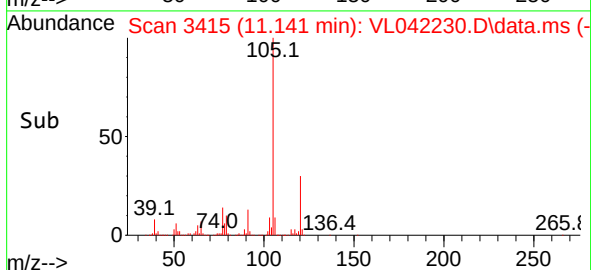
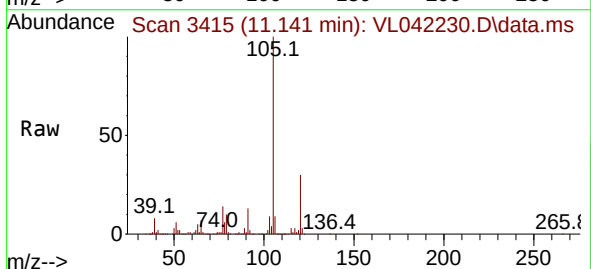
Manual Integrations
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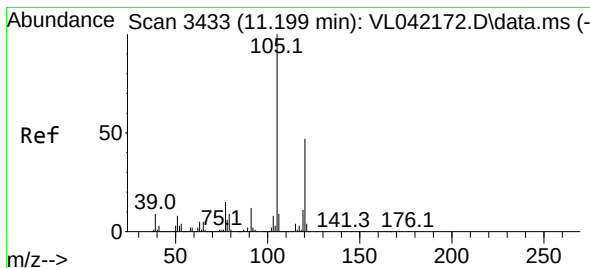
Reviewed By :Semsettin Yesilyurt 04/08/2025
Supervised By :Mahesh Dadoda 04/09/2025



#72
4-Ethyltoluene
Concen: 10.341 ppbv
RT: 11.141 min Scan# 3415
Delta R.T. 0.019 min
Lab File: VL042230.D
Acq: 07 Apr 2025 11:09

Tgt Ion:105 Resp: 867726
Ion Ratio Lower Upper
105 100
120 29.6 23.4 35.0
91 13.5 10.3 15.5
77 14.1 11.4 17.2





#73

1,3,5-Trimethylbenzene

Concen: 10.246 ppbv

RT: 11.218 min Scan# 3439

Delta R.T. 0.019 min

Lab File: VL042230.D

Acq: 07 Apr 2025 11:09

Instrument :

MSVOA_L

ClientSampleId :

VL0407ABS01

Tgt Ion:105 Resp: 750860

Ion Ratio Lower Upper

105 100

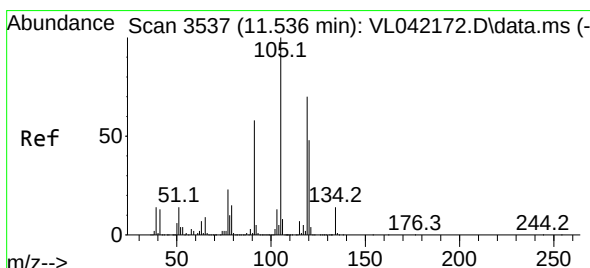
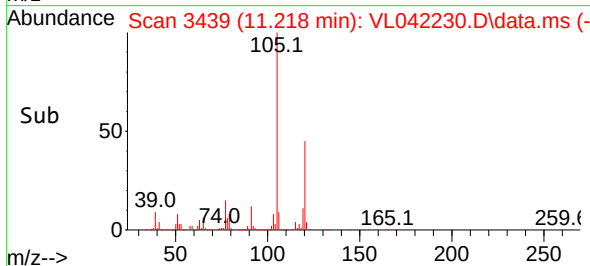
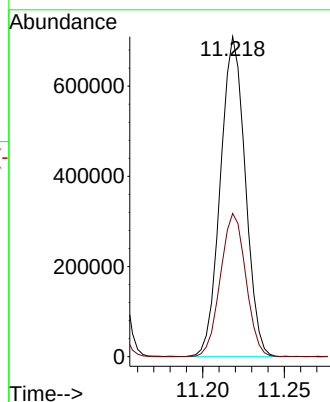
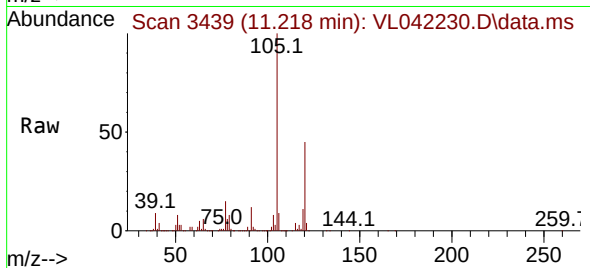
120 44.7 37.4 56.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/08/2025

Supervised By :Mahesh Dadoda 04/09/2025



#74

1,2,4-Trimethylbenzene

Concen: 9.856 ppbv

RT: 11.552 min Scan# 3542

Delta R.T. 0.016 min

Lab File: VL042230.D

Acq: 07 Apr 2025 11:09

Tgt Ion:105 Resp: 832142

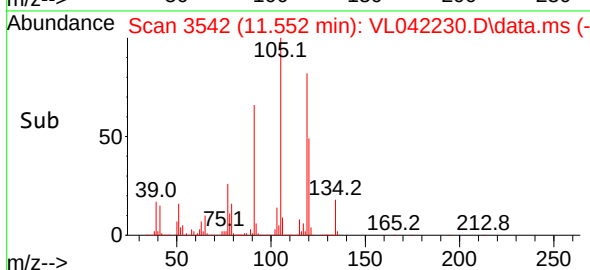
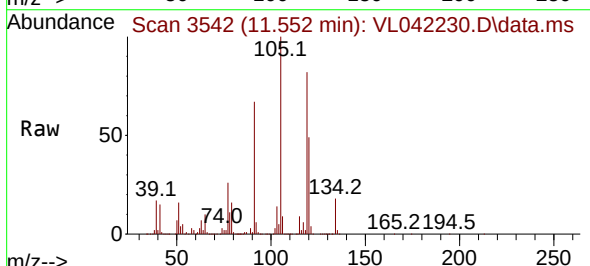
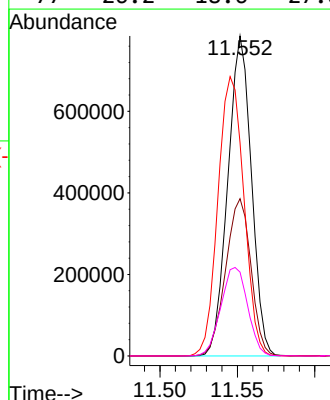
Ion Ratio Lower Upper

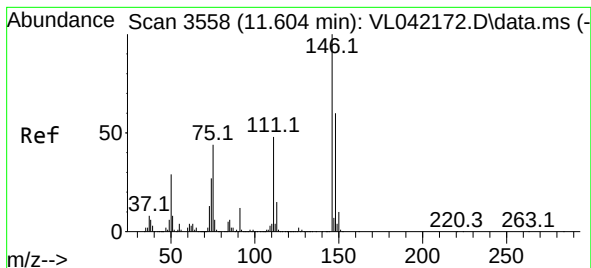
105 100

120 49.2 38.6 58.0

91 66.6 46.2 69.2

77 26.2 18.6 27.8





#75

1,3-Dichlorobenzene

Concen: 10.618 ppbv

RT: 11.623 min Scan# 3564

Delta R.T. 0.019 min

Lab File: VL042230.D

Acq: 07 Apr 2025 11:09

Instrument :

MSVOA_L

ClientSampleId :

VL0407ABS01

Tgt Ion:146 Resp: 491660

Ion Ratio Lower Upper

146 100

111 47.5 23.8 71.2

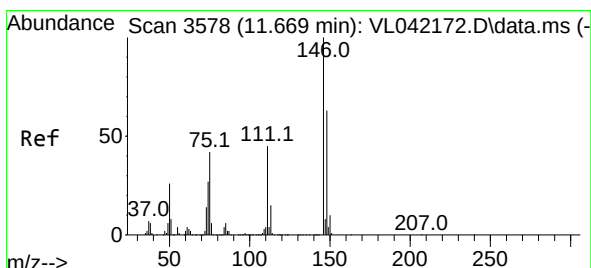
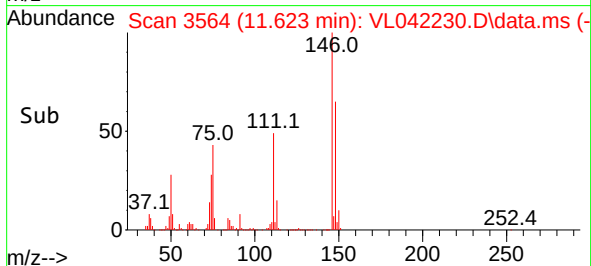
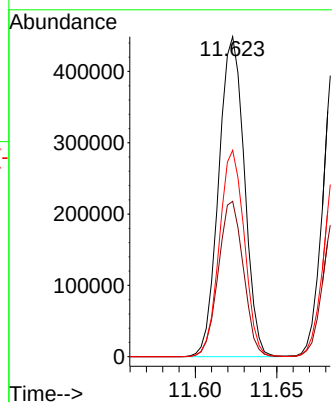
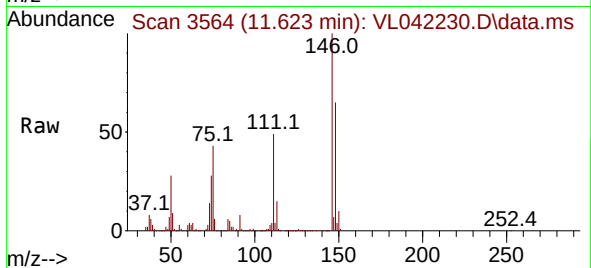
148 62.7 31.9 95.9

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/08/2025

Supervised By :Mahesh Dadoda 04/09/2025



#76

1,4-Dichlorobenzene

Concen: 10.563 ppbv

RT: 11.688 min Scan# 3584

Delta R.T. 0.019 min

Lab File: VL042230.D

Acq: 07 Apr 2025 11:09

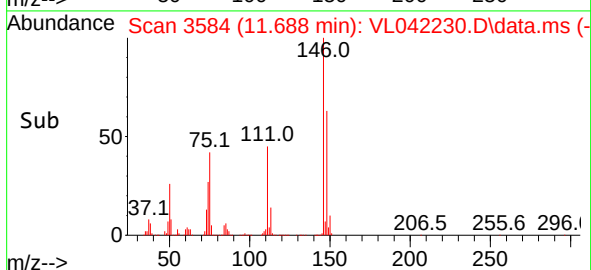
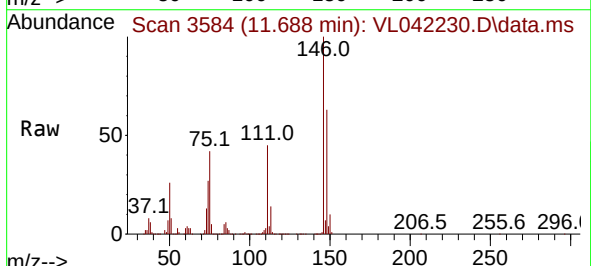
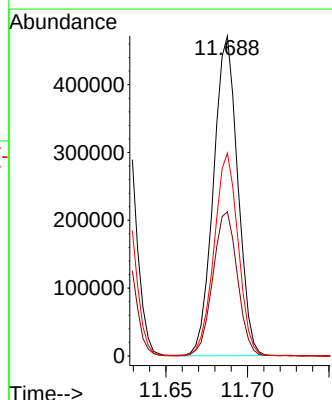
Tgt Ion:146 Resp: 486784

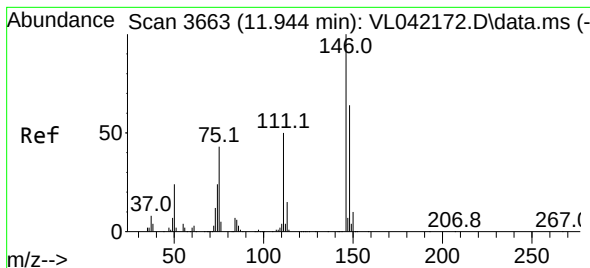
Ion Ratio Lower Upper

146 100

111 45.8 23.0 69.0

148 63.1 31.9 95.7





#77

1,2-Dichlorobenzene

Concen: 10.656 ppbv

RT: 11.963 min Scan# 30

Delta R.T. 0.019 min

Lab File: VL042230.D

Acq: 07 Apr 2025 11:09

Instrument :

MSVOA_L

ClientSampleId :

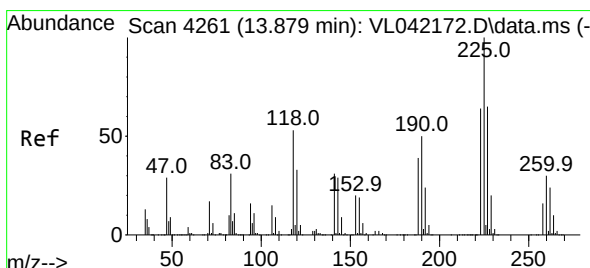
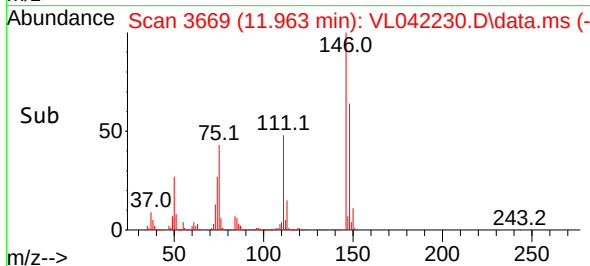
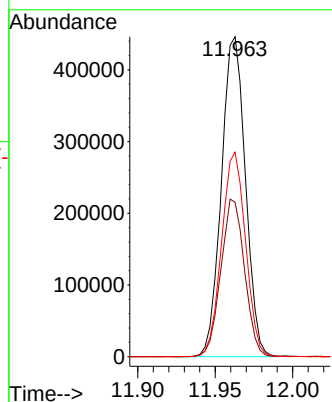
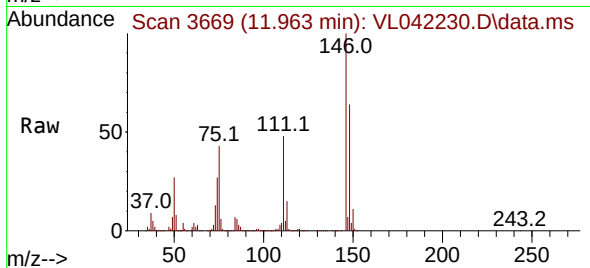
VL0407ABS01

Tgt Ion:	146	Resp:	48045
Ion Ratio	Lower	Upper	
146	100		
111	48.6	24.8	74.3
148	63.9	31.6	94.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/08/2025
Supervised By :Mahesh Dadoda 04/09/2025



#78

Hexachloro-1,3-Butadiene

Concen: 8.189 ppbv

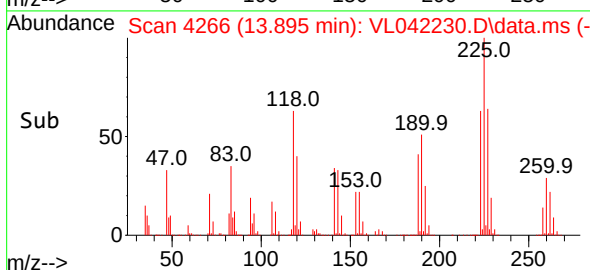
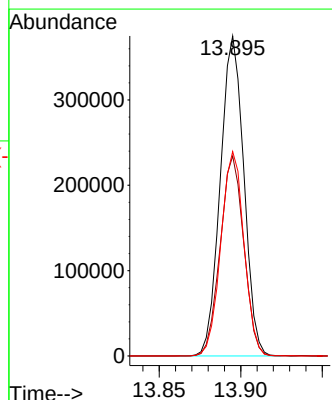
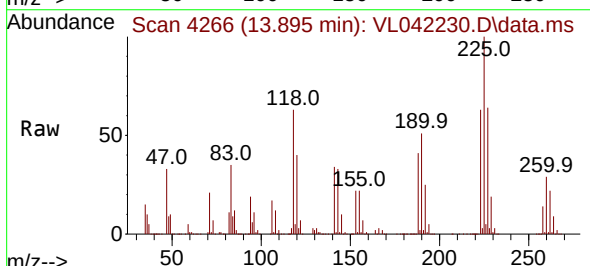
RT: 13.895 min Scan# 4266

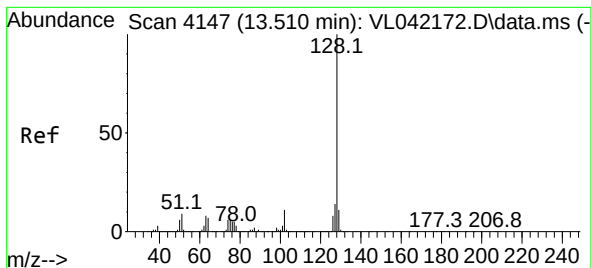
Delta R.T. 0.016 min

Lab File: VL042230.D

Acq: 07 Apr 2025 11:09

Tgt Ion:	225	Resp:	375805
Ion Ratio	Lower	Upper	
225	100		
223	62.5	50.6	76.0
227	62.8	51.2	76.8





#79

Naphthalene

Concen: 9.262 ppbv

RT: 13.526 min Scan# 4147

Delta R.T. 0.016 min

Lab File: VL042230.D

Acq: 07 Apr 2025 11:09

Instrument :

MSVOA_L

ClientSampleId :

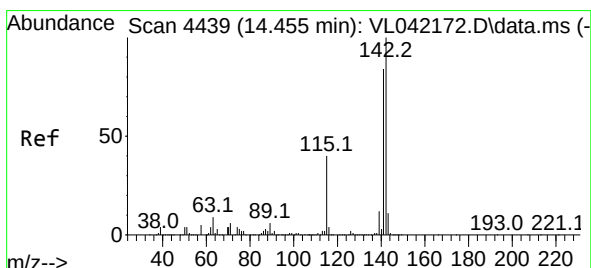
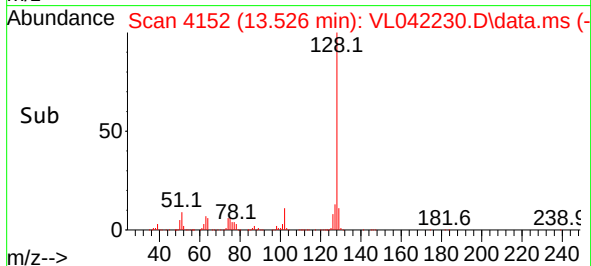
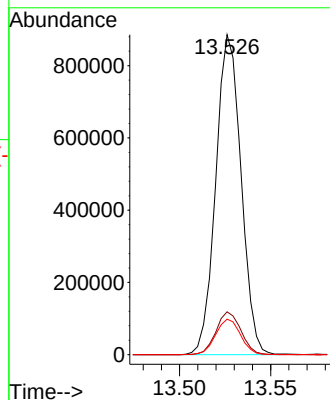
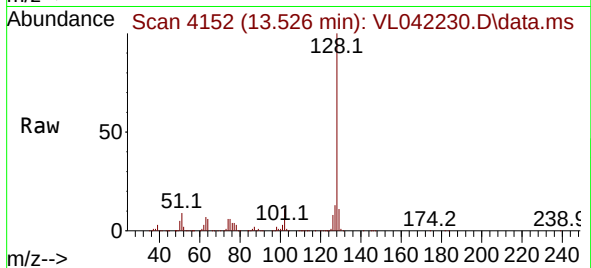
VL0407ABS01

Tgt Ion:128	Resp: 85535
Ion Ratio	Lower Upper
128 100	
127 13.4	10.8 16.2
129 11.1	9.0 13.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/08/2025
Supervised By :Mahesh Dadoda 04/09/2025



#80

Naphthalene,2-methyl-

Concen: 6.665 ppbv

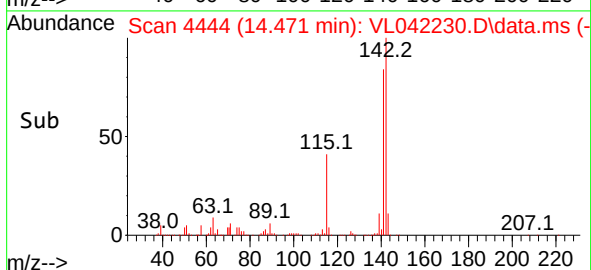
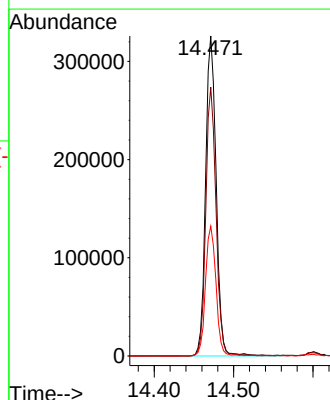
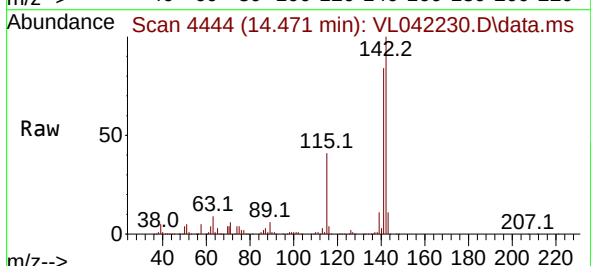
RT: 14.471 min Scan# 4444

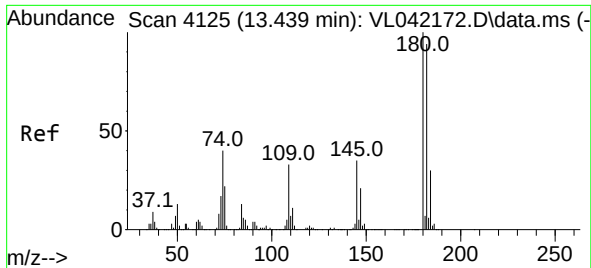
Delta R.T. 0.016 min

Lab File: VL042230.D

Acq: 07 Apr 2025 11:09

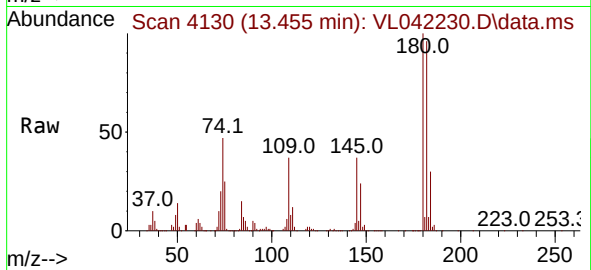
Tgt Ion:142	Resp: 301864
Ion Ratio	Lower Upper
142 100	
141 82.3	66.3 99.5
115 40.8	31.6 47.4





#81
 1,2,4-Trichlorobenzene
 Concen: 8.994 ppbv
 RT: 13.455 min Scan# 41
 Delta R.T. 0.016 min
 Lab File: VL042230.D
 Acq: 07 Apr 2025 11:09

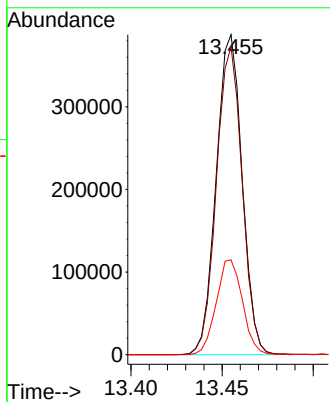
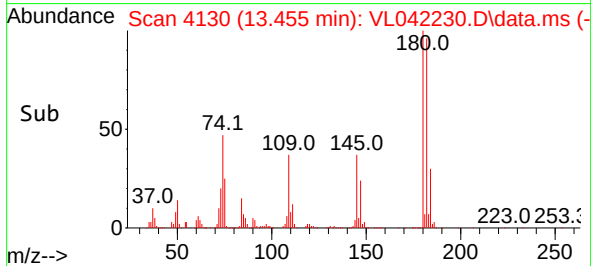
Instrument :
 MSVOA_L
 ClientSampleId :
 VL0407ABS01



Tgt Ion	Ratio	Lower	Upper
180	100		
182	95.6	75.1	112.7
184	30.0	24.4	36.6

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 04/08/2025
 Supervised By :Mahesh Dadoda 04/09/2025



Report of Analysis

Client:	Woodard & Curran	Date Collected:	
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	
Client Sample ID:	VL0408ABS01	SDG No.:	Q1725
Lab Sample ID:	VL0408ABS01	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400	Units:	mL

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042255.D	1		04/08/25 10:05	VL040825

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	9.70	48.0		1.04	2.47	ug/m3
74-87-3	Chloromethane	9.80	20.2		0.21	1.03	ug/m3
75-01-4	Vinyl Chloride	8.50	21.7		0.030	0.080	ug/m3
74-83-9	Bromomethane	8.70	33.8		0.54	1.94	ug/m3
75-00-3	Chloroethane	9.20	24.3		0.45	1.32	ug/m3
109-99-9	Tetrahydrofuran	10.2	30.1		0.38	1.47	ug/m3
75-69-4	Trichlorofluoromethane	9.60	54.0		0.90	2.81	ug/m3
76-13-1	1,1,2-Trichlorotrifluoroethane	9.40	72.0		1.23	3.83	ug/m3
76-14-2	Dichlorotetrafluoroethane	9.70	67.8		0.63	3.49	ug/m3
75-65-0	tert-Butyl alcohol	8.40	25.5		0.58	1.52	ug/m3
142-82-5	Heptane	9.50	38.9		0.45	2.05	ug/m3
75-35-4	1,1-Dichloroethene	8.90	35.3		0.56	1.98	ug/m3
67-64-1	Acetone	8.90	21.1		0.57	1.19	ug/m3
75-15-0	Carbon Disulfide	9.00	28.0		0.50	1.56	ug/m3
1634-04-4	Methyl tert-Butyl Ether	8.50	30.6		0.43	1.80	ug/m3
75-09-2	Methylene Chloride	8.40	29.2		0.66	1.74	ug/m3
156-60-5	trans-1,2-Dichloroethene	8.80	34.9		0.75	1.98	ug/m3
75-34-3	1,1-Dichloroethane	9.80	39.7		0.53	2.02	ug/m3
110-82-7	Cyclohexane	9.10	31.3		0.76	1.72	ug/m3
78-93-3	2-Butanone	10.6	31.3		0.35	1.47	ug/m3
56-23-5	Carbon Tetrachloride	10.8	67.9		0.060	0.19	ug/m3
156-59-2	cis-1,2-Dichloroethene	9.30	36.9		0.36	1.98	ug/m3
67-66-3	Chloroform	10.5	51.3		0.39	2.44	ug/m3
71-55-6	1,1,1-Trichloroethane	9.00	49.1		0.050	0.16	ug/m3
540-84-1	2,2,4-Trimethylpentane	10.7	50.0		0.47	2.34	ug/m3
71-43-2	Benzene	10.6	33.9		0.29	1.60	ug/m3
107-06-2	1,2-Dichloroethane	11.2	45.3		0.36	2.02	ug/m3
79-01-6	Trichloroethene	10.1	54.3		0.11	0.16	ug/m3
78-87-5	1,2-Dichloropropane	10.4	48.1		0.51	2.31	ug/m3
75-27-4	Bromodichloromethane	11.2	75.0		0.54	3.35	ug/m3
108-10-1	4-Methyl-2-Pentanone	9.60	39.3		0.37	2.05	ug/m3
108-88-3	Toluene	9.90	37.3		0.41	1.88	ug/m3
10061-02-6	t-1,3-Dichloropropene	8.30	37.7		0.27	2.27	ug/m3
10061-01-5	cis-1,3-Dichloropropene	9.10	41.3		0.27	2.27	ug/m3
79-00-5	1,1,2-Trichloroethane	11.2	61.1		0.38	2.73	ug/m3

Report of Analysis

Client:	Woodard & Curran	Date Collected:	
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	
Client Sample ID:	VL0408ABS01	SDG No.:	Q1725
Lab Sample ID:	VL0408ABS01	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400	Units:	mL

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042255.D	1		04/08/25 10:05	VL040825

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
124-48-1	Dibromochloromethane	10.9	92.9		0.60	4.26	ug/m3
106-93-4	1,2-Dibromoethane	10.7	82.2		0.54	0.77	ug/m3
127-18-4	Tetrachloroethene	9.00	61.0		0.14	0.20	ug/m3
108-90-7	Chlorobenzene	11.4	52.5		0.37	2.30	ug/m3
100-41-4	Ethyl Benzene	10.6	46.0		0.52	2.17	ug/m3
179601-23-1	m/p-Xylene	22.5	97.7		0.91	4.34	ug/m3
95-47-6	o-Xylene	11.2	48.6		0.52	2.17	ug/m3
100-42-5	Styrene	10.1	43.0		0.47	2.13	ug/m3
75-25-2	Bromoform	10.7	111		0.62	5.17	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	12.1	83.1		0.070	0.21	ug/m3
95-49-8	2-Chlorotoluene	11.1	57.5		0.57	2.59	ug/m3
108-67-8	1,3,5-Trimethylbenzene	11.2	55.1		0.54	2.46	ug/m3
95-63-6	1,2,4-Trimethylbenzene	10.8	53.1		0.39	2.46	ug/m3
541-73-1	1,3-Dichlorobenzene	11.7	70.3		0.48	3.01	ug/m3
106-46-7	1,4-Dichlorobenzene	11.6	69.7		0.30	3.01	ug/m3
95-50-1	1,2-Dichlorobenzene	11.9	71.5		0.48	3.01	ug/m3
120-82-1	1,2,4-Trichlorobenzene	9.70	72.0		0.67	3.71	ug/m3
87-68-3	Hexachloro-1,3-Butadiene	8.80	93.9		0.96	5.33	ug/m3
106-99-0	1,3-Butadiene	8.90	19.7		0.29	1.11	ug/m3
91-20-3	Naphthalene	10.1	53.0		0.42	0.52	ug/m3
622-96-8	4-Ethyltoluene	11.5	56.5		0.59	2.46	ug/m3
110-54-3	Hexane	9.50	33.5		0.39	1.76	ug/m3
107-05-1	Allyl Chloride	9.10	28.5		0.47	1.57	ug/m3
123-91-1	1,4-Dioxane	9.60	34.6		0.76	1.80	ug/m3
80-62-6	Methyl Methacrylate	9.30	38.1		0.37	2.05	ug/m3
SURROGATES							
460-00-4	1-Bromo-4-Fluorobenzene	10.0			70 (65) - 130 (135)	100%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	190000		2.803			
540-36-3	1,4-Difluorobenzene	495000		3.981			
3114-55-4	Chlorobenzene-d5	447000		8.904			

Report of Analysis

Client:	Woodard & Curran	Date Collected:	
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	
Client Sample ID:	VL0408ABS01	SDG No.:	Q1725
Lab Sample ID:	VL0408ABS01	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400	Units:	mL

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042255.D	1		04/08/25 10:05	VL040825

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units

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\VL040825\
 Data File : VL042255.D
 Acq On : 08 Apr 2025 10:05
 Operator : SY/MD
 Sample : VL0408ABS01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0408ABS01

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 04/09/2025
 Supervised By :Mahesh Dadoda 04/09/2025

Quant Time: Apr 09 01:51:57 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 2025

QLast Update : Fri Mar 28 02:00:52 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.803	49	190420	10.000	ppbv	0.02
33) 1,4-Difluorobenzene	3.981	114	494678	10.000	ppbv	0.03
55) Chlorobenzene-d5	8.904	117	447066	10.000	ppbv	0.03

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.393 95 367418 10.008 ppbv 0.02
 Spiked Amount 10.000 Range 65 - 135 Recovery = 100.100%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.505	85	273062	9.712	ppbv	99
3) Chlorodifluoromethane	1.483	51	292844	10.196	ppbv	100
4) Chloromethane	1.538	50	112659	9.805	ppbv	100
5) Vinyl Chloride	1.586	62	103863	8.530	ppbv	96
6) Bromomethane	1.674	94	45172	8.675	ppbv	97
7) Chloroethane	1.713	64	42251	9.161	ppbv	99
8) Dichlorotetrafluoroethane	1.560	85	232959	9.730	ppbv	93
9) Propene	1.489	41	111408	8.462	ppbv	99
10) Heptane	5.011	43	333061	9.511	ppbv	99
11) Trichlorofluoromethane	1.887	101	263188	9.620	ppbv	94
12) 1,1,2-Trichlorotrifluo...	2.150	101	211536	9.407	ppbv	98
13) Ethanol	1.729	45	6066	4.874	ppbv	82
14) Bromoethene	1.790	108	74695	8.671	ppbv	98
15) Acetone	1.842	43	235954	8.860	ppbv	95
16) 1,3-Butadiene	1.615	39	115796	8.904	ppbv	95
17) tert-Butyl alcohol	2.049	59	277654	8.371	ppbv	98
18) 1,1-Dichloroethene	2.043	96	93164	8.862	ppbv	97
19) Isopropyl Alcohol	1.894	45	129418	8.613	ppbv #	34
20) Methylene Chloride	2.072	84	83277	8.396	ppbv	95
21) Allyl Chloride	2.107	41	171013	9.105	ppbv	98
22) trans-1,2-Dichloroethene	2.353	96	106692	8.782	ppbv	93
23) Vinyl Acetate	2.476	43	98533	8.549	ppbv	97
24) 1,1-Dichloroethane	2.421	63	221032	9.814	ppbv	99
25) Ethyl Acetate	2.852	43	681132	9.854	ppbv	99
26) Hexane	2.842	57	254141	9.519	ppbv	95
27) Carbon Disulfide	2.159	76	258972	9.046	ppbv	99
28) Methyl tert-Butyl Ether	2.454	73	141395	8.506	ppbv	96
29) Chloroform	2.865	83	410522	10.507	ppbv	98
30) Cyclohexane	3.878	84	211231	9.112	ppbv	97
31) cis-1,2-Dichloroethene	2.735	61	251202	9.268	ppbv	98
32) 1,1,1-Trichloroethane	3.386	97	402513	8.998	ppbv	98
34) 2-Butanone	2.570	43	379327	10.575	ppbv	98
35) Carbon Tetrachloride	3.787	117	418420	10.828	ppbv	99
36) Benzene	3.677	78	518095	10.564	ppbv	98
37) 1,2-Dichloroethane	3.237	62	315190	11.226	ppbv	99
38) Trichloroethene	4.577	130	205867	10.061	ppbv	96
39) 1,2-Dichloropropane	4.341	63	185795	10.403	ppbv	94
40) 1,4-Dioxane	4.613	88	91079	9.608	ppbv #	92
41) Tetrahydrofuran	3.072	42	210024	10.168	ppbv	97
42) Bromodichloromethane	4.519	83	434165	11.217	ppbv	99
43) Methyl Methacrylate	4.910	69	192595	9.277	ppbv	98
44) 2,2,4-Trimethylpentane	4.668	57	886873	10.701	ppbv	98
45) t-1,3-Dichloropropene	6.448	75	184852	8.299	ppbv	97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040825\
 Data File : VL042255.D
 Acq On : 08 Apr 2025 10:05
 Operator : SY/MD
 Sample : VL0408ABS01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0408ABS01

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 04/09/2025
 Supervised By :Mahesh Dadoda 04/09/2025

Quant Time: Apr 09 01:51:57 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M

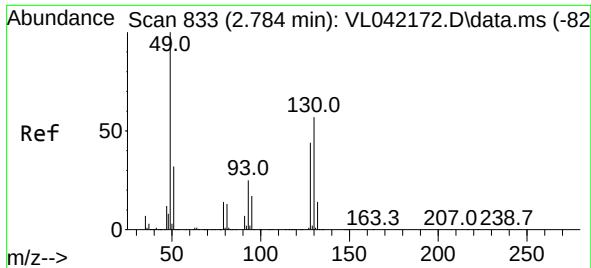
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2

QLast Update : Fri Mar 28 02:00:52 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.635	75	249791	9.149	ppbv	97
47) 1,1,2-Trichloroethane	6.613	97	210809	11.166	ppbv	98
48) Dibromochloromethane	7.412	129	348149	10.881	ppbv	99
49) Bromoform	9.503	173	307461	10.703	ppbv	99
50) 4-Methyl-2-Pentanone	5.787	43	543140	9.554	ppbv	97
51) 2-Hexanone	7.461	43	441742	9.463	ppbv #	95
52) Tetrachloroethene	8.251	164	175587	9.028	ppbv	93
53) Toluene	6.962	91	578261	9.947	ppbv	99
54) 1,2-Dibromoethane	7.678	107	282386	10.730	ppbv	99
56) 1,1,1,2-Tetrachloroethane	8.946	131	283080	11.503	ppbv	98
57) Chlorobenzene	8.943	112	481713	11.360	ppbv	98
58) Ethyl Benzene	9.377	91	841166	10.593	ppbv	99
59) m/p-Xylene	9.571	91	1425833m	22.486	ppbv	
60) o-Xylene	9.982	91	711568	11.194	ppbv	98
61) Styrene	9.888	104	319155	10.149	ppbv	99
62) Isopropylbenzene	10.558	105	1063992	11.193	ppbv	99
63) 1,1,2,2-Tetrachloroethane	9.982	83	468851	12.139	ppbv	99
64) n-propylbenzene	11.005	120	284790	11.638	ppbv	97
65) tert-Butylbenzene	11.549	119	976872	11.112	ppbv	99
66) Benzyl Chloride	11.633	91	63988	6.860	ppbv	99
67) sec-Butylbenzene	11.785	105	1377726	11.275	ppbv	99
69) p-Isopropyltoluene	11.940	119	1168405	11.104	ppbv	99
70) n-Butylbenzene	12.296	91	1217247	11.312	ppbv	99
71) 2-Chlorotoluene	10.918	91	817332	11.078	ppbv	99
72) 4-Ethyltoluene	11.141	105	906994	11.460	ppbv	99
73) 1,3,5-Trimethylbenzene	11.222	105	773328	11.187	ppbv	98
74) 1,2,4-Trimethylbenzene	11.555	105	862179	10.827	ppbv	99
75) 1,3-Dichlorobenzene	11.623	146	512731	11.739	ppbv	98
76) 1,4-Dichlorobenzene	11.688	146	505049	11.619	ppbv	99
77) 1,2-Dichlorobenzene	11.963	146	505323	11.883	ppbv	99
78) Hexachloro-1,3-Butadiene	13.899	225	382876	8.845	ppbv	100
79) Naphthalene	13.530	128	875824	10.055	ppbv	99
80) Naphthalene,2-methyl-	14.475	142	291105	6.815	ppbv	100
81) 1,2,4-Trichlorobenzene	13.455	180	388605	9.672	ppbv	98

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



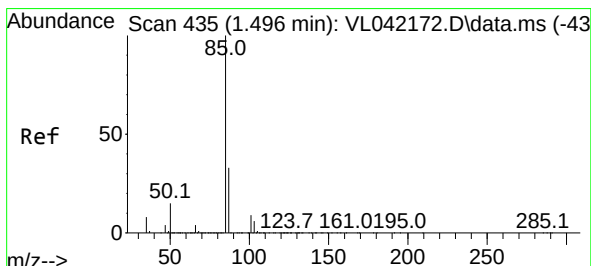
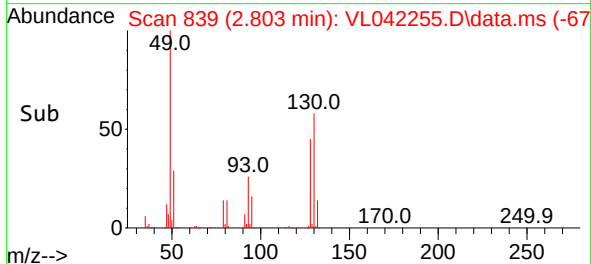
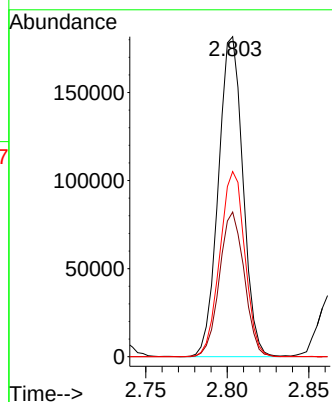
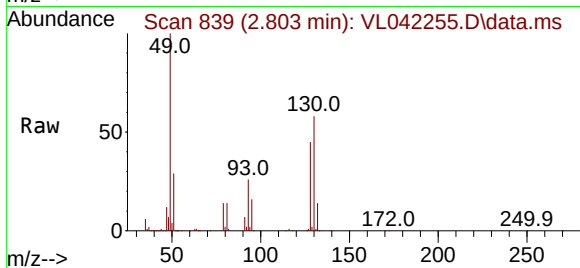
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Bromochloromethane
Concen: 10.000 ppbv
RT: 2.803 min Scan# 81
Delta R.T. 0.019 min
Lab File: VL042255.D
Acq: 08 Apr 2025 10:05

Instrument :
MSVOA_L
ClientSampleId :
VL0408ABS01

Tgt Ion: 49 Resp: 190420
Ion Ratio Lower Upper
49 100
128 45.4 22.9 68.5
130 58.9 28.8 86.4

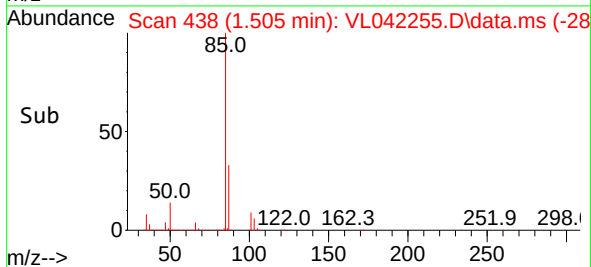
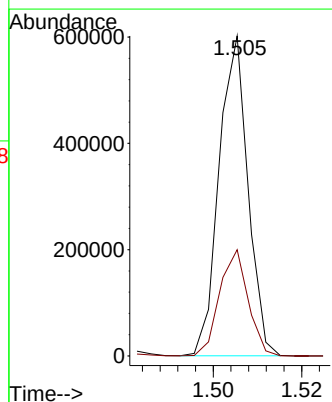
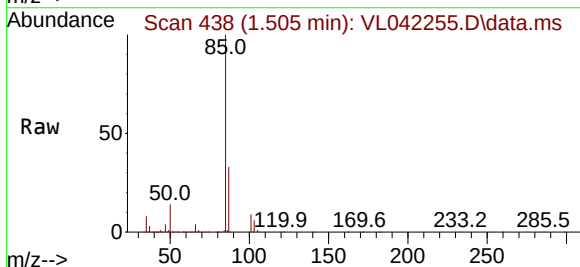
Manual Integrations
APPROVED

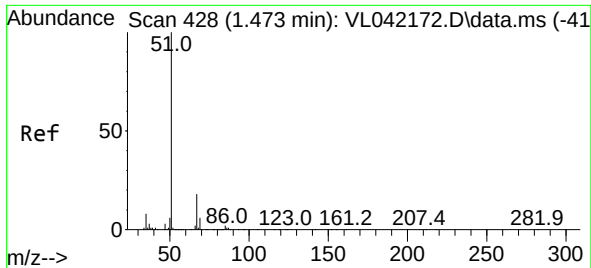
Reviewed By :Semsettin Yesilyurt 04/09/2025
Supervised By :Mahesh Dadoda 04/09/2025



#2
Dichlorodifluoromethane
Concen: 9.712 ppbv
RT: 1.505 min Scan# 438
Delta R.T. 0.010 min
Lab File: VL042255.D
Acq: 08 Apr 2025 10:05

Tgt Ion: 85 Resp: 273062
Ion Ratio Lower Upper
85 100
87 33.2 26.1 39.1





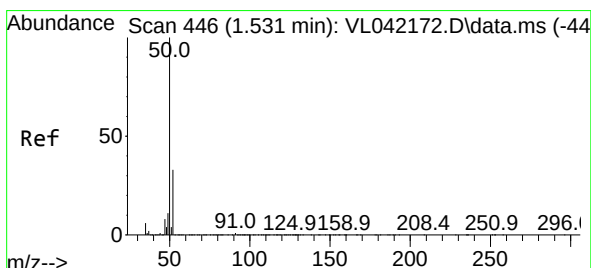
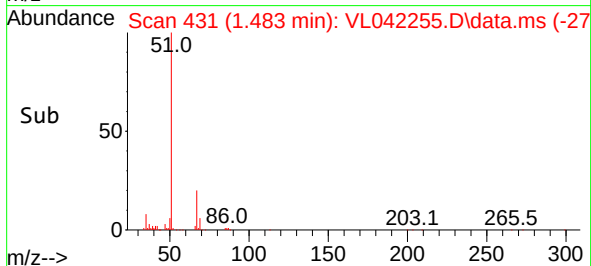
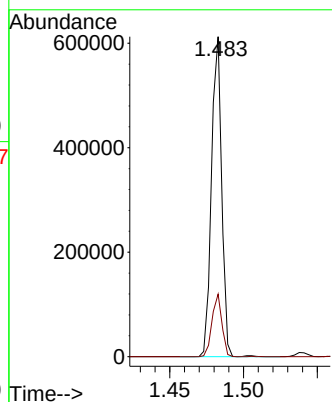
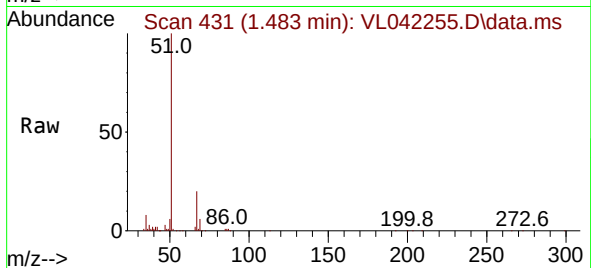
#3
Chlorodifluoromethane
Concen: 10.196 ppbv
RT: 1.483 min Scan# 41
Delta R.T. 0.010 min
Lab File: VL042255.D
Acq: 08 Apr 2025 10:05

Instrument :
MSVOA_L
ClientSampleId :
VL0408ABS01

Tgt Ion: 51 Resp: 29284
Ion Ratio Lower Upper
51 100
67 19.0 15.0 22.6

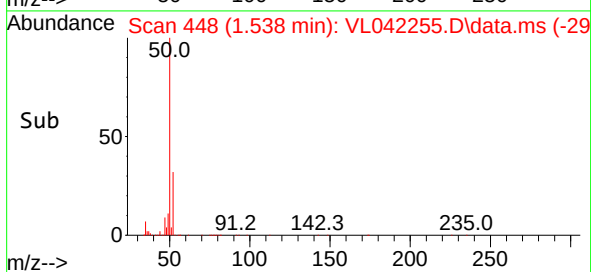
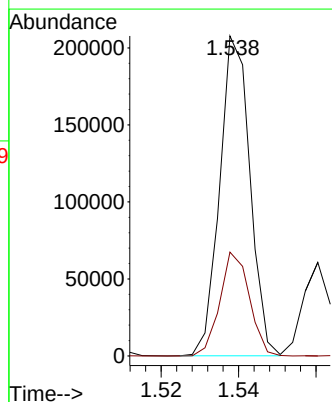
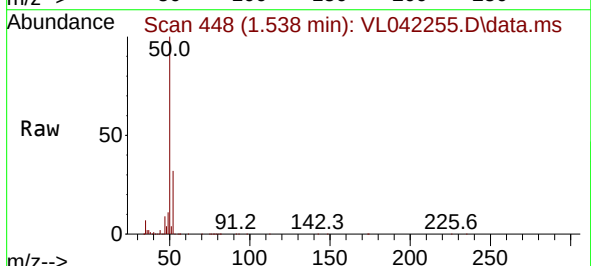
Manual Integrations
APPROVED

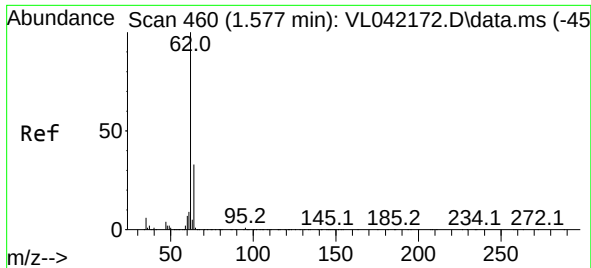
Reviewed By :Semsettin Yesilyurt 04/09/2025
Supervised By :Mahesh Dadoda 04/09/2025



#4
Chloromethane
Concen: 9.805 ppbv
RT: 1.538 min Scan# 448
Delta R.T. 0.006 min
Lab File: VL042255.D
Acq: 08 Apr 2025 10:05

Tgt Ion: 50 Resp: 112659
Ion Ratio Lower Upper
50 100
52 32.5 26.1 39.1





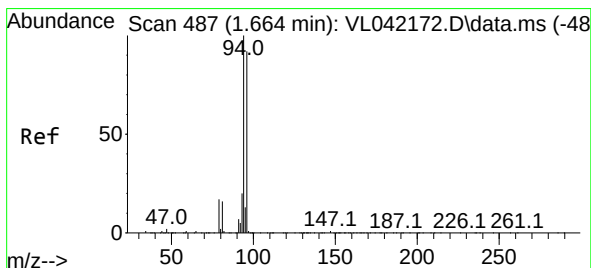
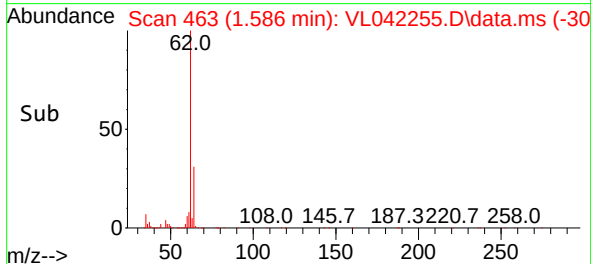
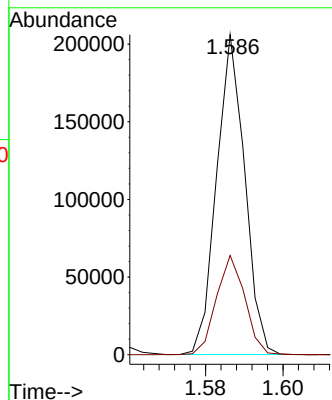
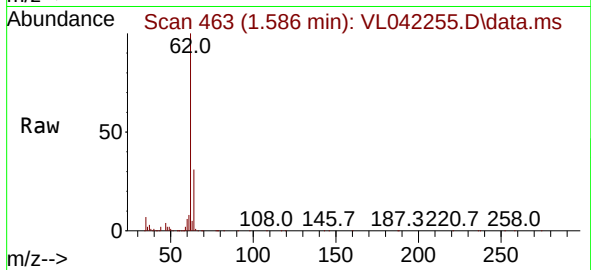
#5
Vinyl Chloride
Concen: 8.530 ppbv
RT: 1.586 min Scan# 40
Delta R.T. 0.010 min
Lab File: VL042255.D
Acq: 08 Apr 2025 10:05

Instrument :
MSVOA_L
ClientSampleId :
VL0408ABS01

Tgt Ion: 62 Resp: 10386
Ion Ratio Lower Upper
62 100
64 30.9 26.6 40.0

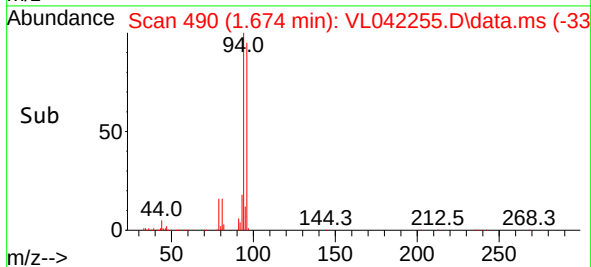
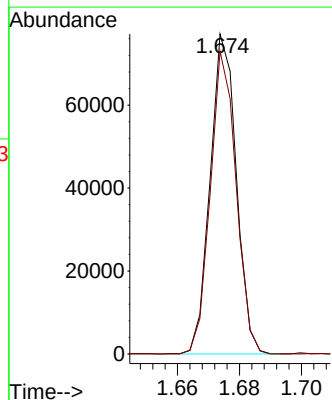
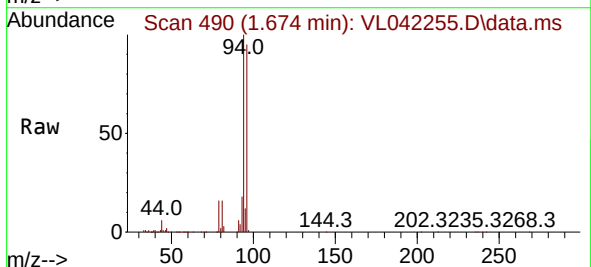
Manual Integrations
APPROVED

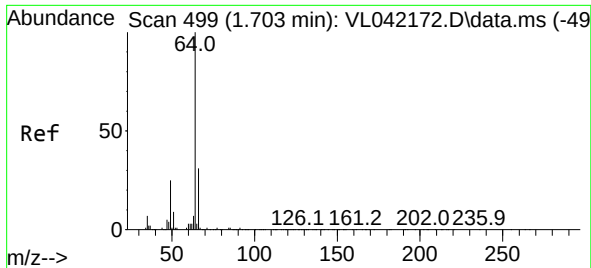
Reviewed By :Semsettin Yesilyurt 04/09/2025
Supervised By :Mahesh Dadoda 04/09/2025



#6
Bromomethane
Concen: 8.675 ppbv
RT: 1.674 min Scan# 490
Delta R.T. 0.010 min
Lab File: VL042255.D
Acq: 08 Apr 2025 10:05

Tgt Ion: 94 Resp: 45172
Ion Ratio Lower Upper
94 100
96 94.7 73.1 109.7





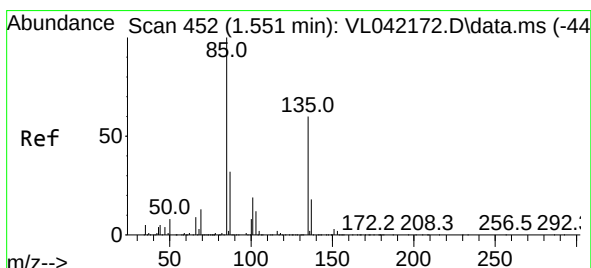
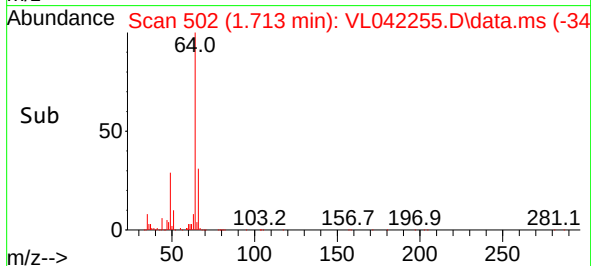
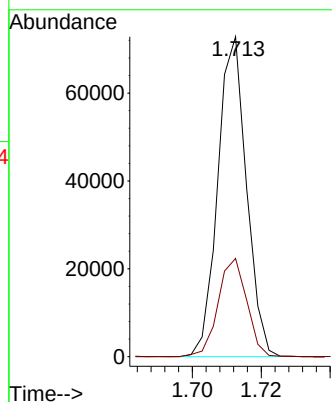
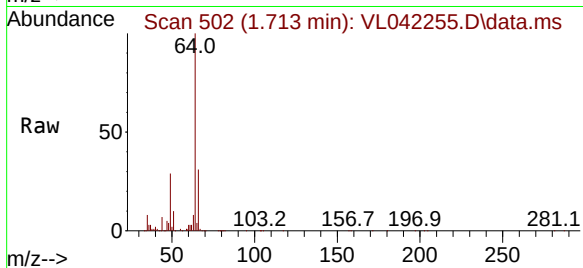
#7
Chloroethane
Concen: 9.161 ppbv
RT: 1.713 min Scan# 502
Delta R.T. 0.010 min
Lab File: VL042255.D
Acq: 08 Apr 2025 10:05

Instrument :
MSVOA_L
ClientSampleId :
VL0408ABS01

Tgt Ion: 64 Resp: 4225
Ion Ratio Lower Upper
64 100
66 30.7 25.2 37.8

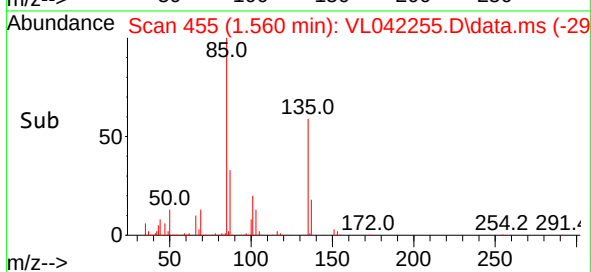
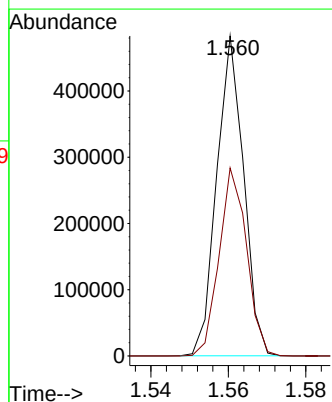
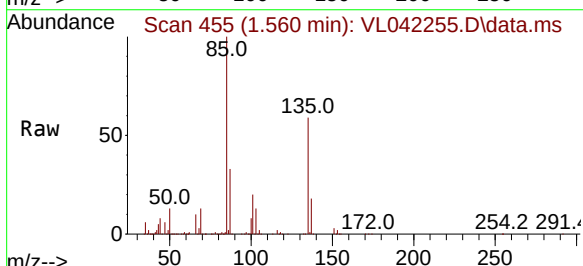
Manual Integrations
APPROVED

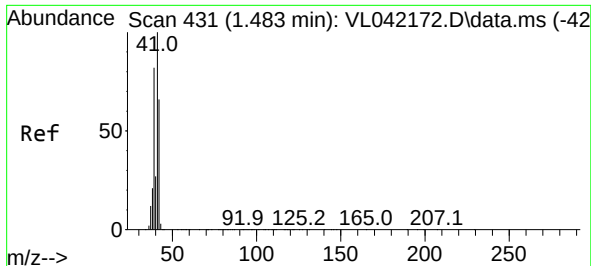
Reviewed By :Semsettin Yesilyurt 04/09/2025
Supervised By :Mahesh Dadoda 04/09/2025



#8
Dichlorotetrafluoroethane
Concen: 9.730 ppbv
RT: 1.560 min Scan# 455
Delta R.T. 0.010 min
Lab File: VL042255.D
Acq: 08 Apr 2025 10:05

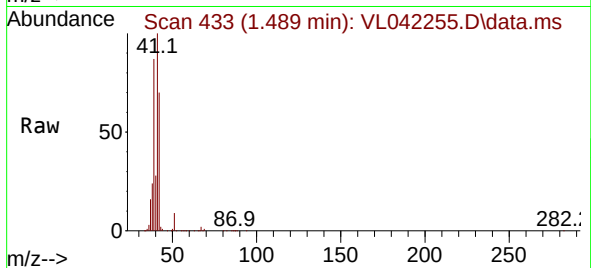
Tgt Ion: 85 Resp: 232959
Ion Ratio Lower Upper
85 100
135 60.1 52.4 78.6





#9
Propene
Concen: 8.462 ppbv
RT: 1.489 min Scan# 41
Delta R.T. 0.006 min
Lab File: VL042255.D
Acq: 08 Apr 2025 10:05

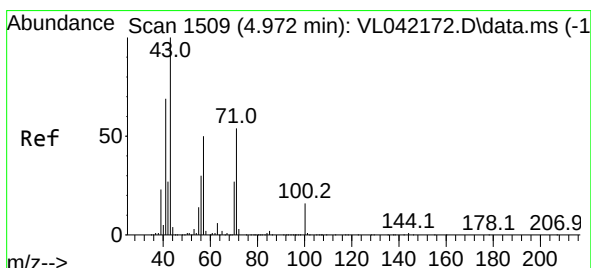
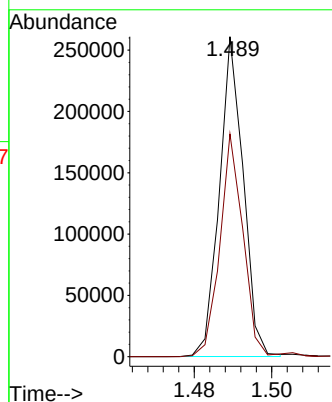
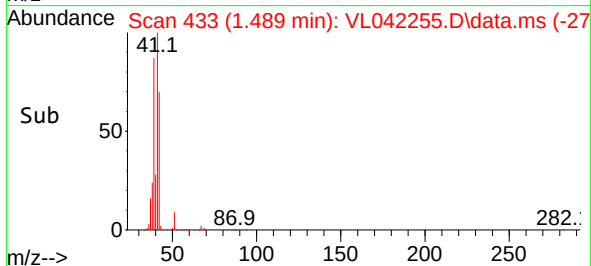
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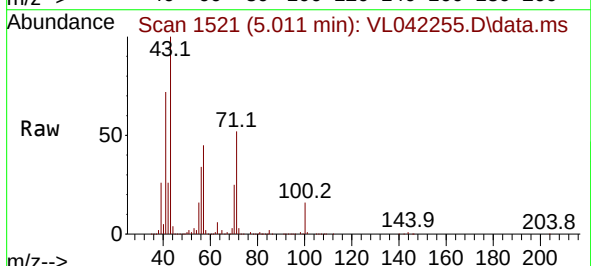
Tgt Ion: 41 Resp: 111408
Ion Ratio Lower Upper
41 100
42 68.7 55.4 83.2

Manual Integrations
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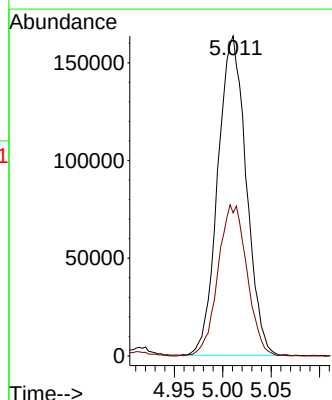
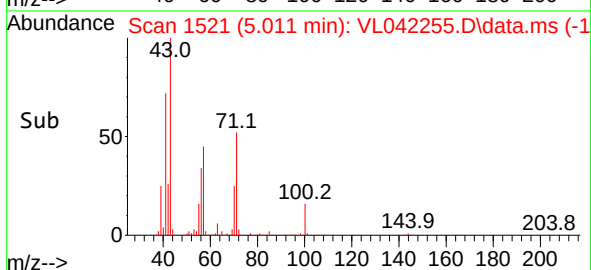
Reviewed By :Semsettin Yesilyurt 04/09/2025
Supervised By :Mahesh Dadoda 04/09/2025

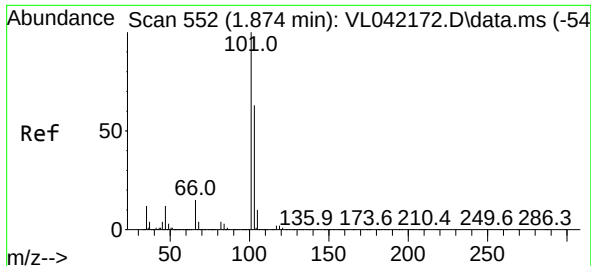


#10
Heptane
Concen: 9.511 ppbv
RT: 5.011 min Scan# 1521
Delta R.T. 0.039 min
Lab File: VL042255.D
Acq: 08 Apr 2025 10:05



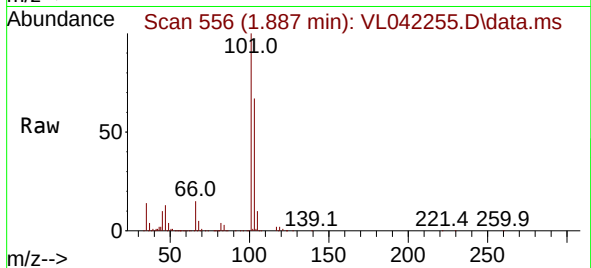
Tgt Ion: 43 Resp: 333061
Ion Ratio Lower Upper
43 100
57 48.5 39.4 59.2





#11
Trichlorofluoromethane
Concen: 9.620 ppbv
RT: 1.887 min Scan# 511
Delta R.T. 0.013 min
Lab File: VL042255.D
Acq: 08 Apr 2025 10:05

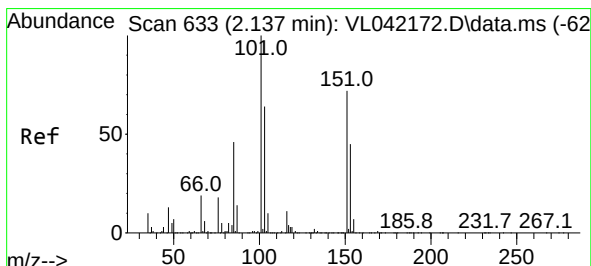
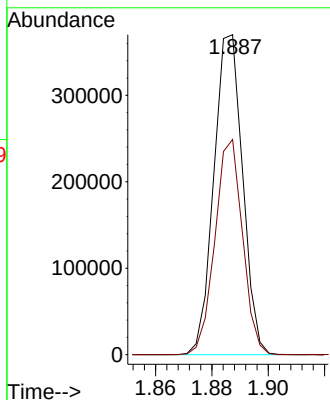
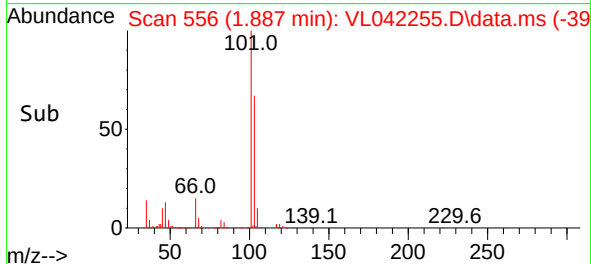
Instrument :
MSVOA_L
ClientSampleId :
VL0408ABS01



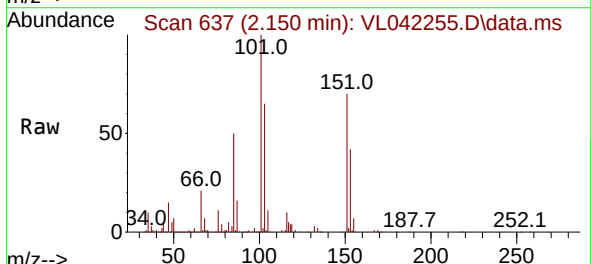
Tgt Ion:101 Resp: 263188
Ion Ratio Lower Upper
101 100
103 67.2 50.2 75.2

Manual Integrations
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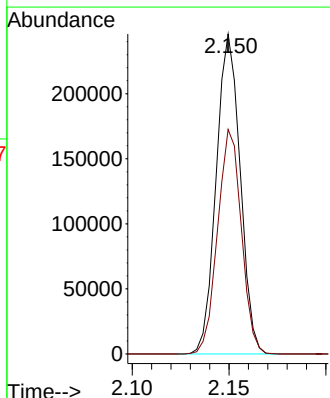
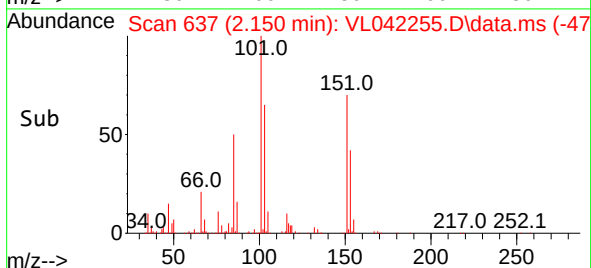
Reviewed By :Semsettin Yesilyurt 04/09/2025
Supervised By :Mahesh Dadoda 04/09/2025

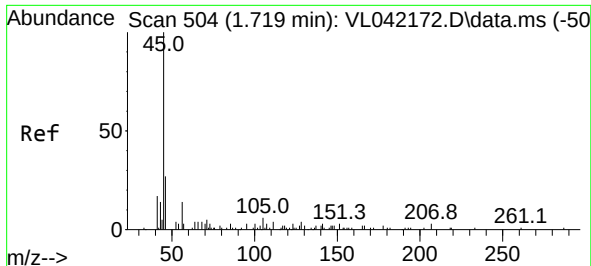


#12
1,1,2-Trichlorotrifluoroethane
Concen: 9.407 ppbv
RT: 2.150 min Scan# 637
Delta R.T. 0.013 min
Lab File: VL042255.D
Acq: 08 Apr 2025 10:05



Tgt Ion:101 Resp: 211536
Ion Ratio Lower Upper
101 100
151 69.6 57.1 85.7





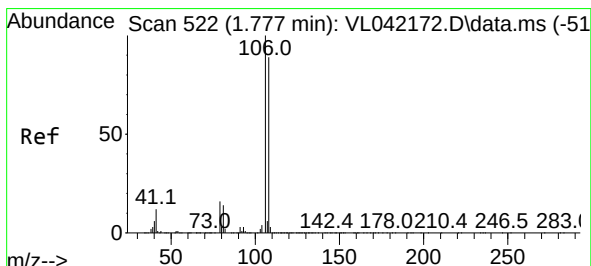
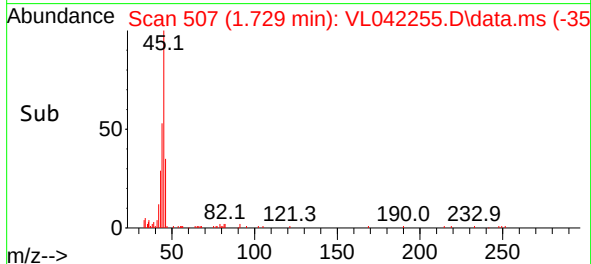
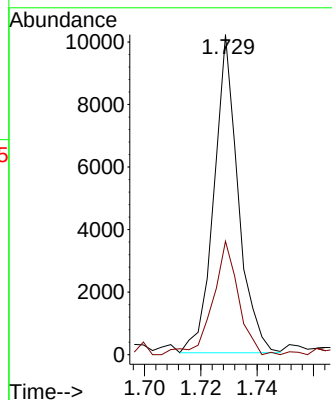
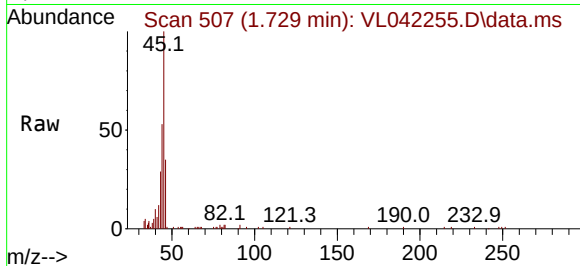
#13
Ethanol
Concen: 4.874 ppbv
RT: 1.729 min Scan# 504
Delta R.T. 0.010 min
Lab File: VL042255.D
Acq: 08 Apr 2025 10:05

Instrument :
MSVOA_L
ClientSampleId :
VL0408ABS01

Tgt Ion: 45 Resp: 6060
Ion Ratio Lower Upper
45 100
46 38.1 20.2 80.8

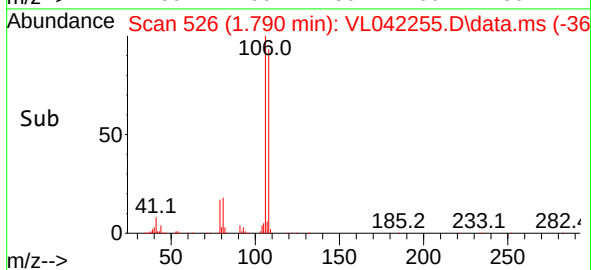
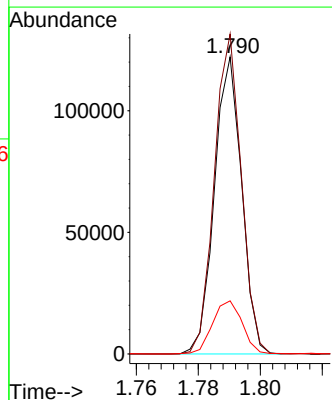
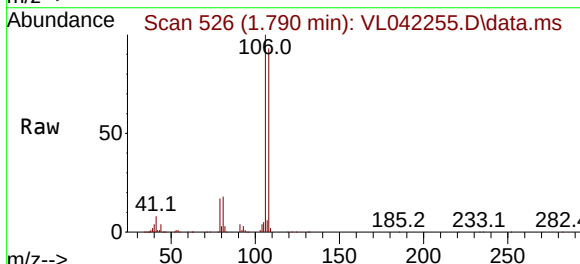
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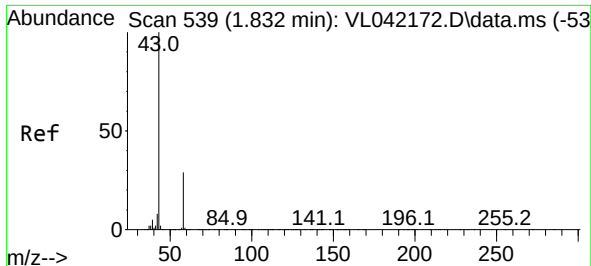
Reviewed By :Semsettin Yesilyurt 04/09/2025
Supervised By :Mahesh Dadoda 04/09/2025



#14
Bromoethene
Concen: 8.671 ppbv
RT: 1.790 min Scan# 526
Delta R.T. 0.013 min
Lab File: VL042255.D
Acq: 08 Apr 2025 10:05

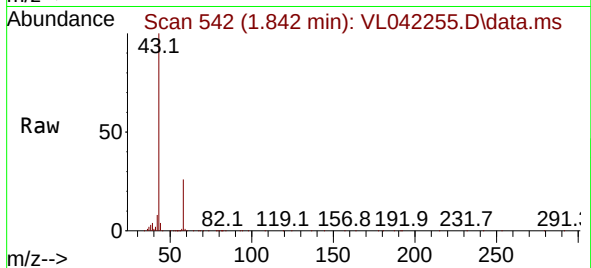
Tgt Ion:108 Resp: 74695
Ion Ratio Lower Upper
108 100
106 106.1 86.8 130.2
79 19.5 15.0 22.6





#15
Acetone
Concen: 8.860 ppbv
RT: 1.842 min Scan# 54
Delta R.T. 0.010 min
Lab File: VL042255.D
Acq: 08 Apr 2025 10:05

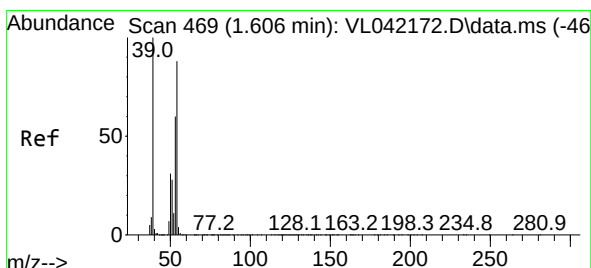
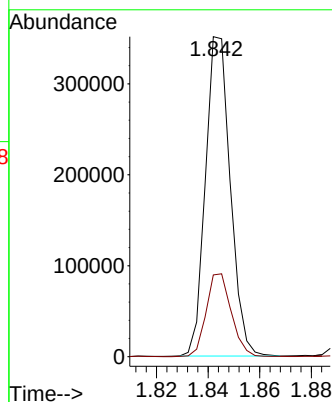
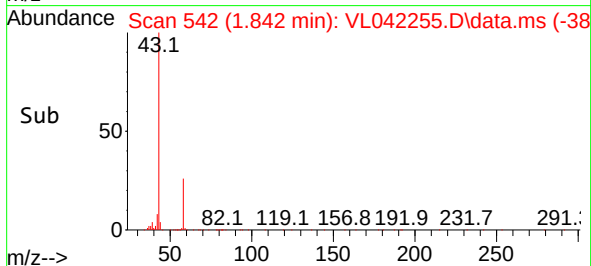
Instrument :
MSVOA_L
ClientSampleId :
VL0408ABS01



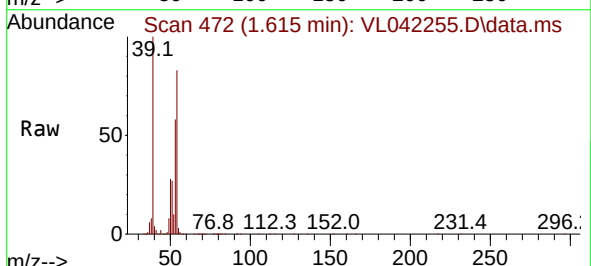
Tgt Ion: 43 Resp: 235954
Ion Ratio Lower Upper
43 100
58 26.4 23.2 34.8

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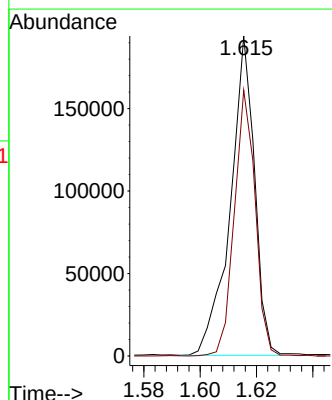
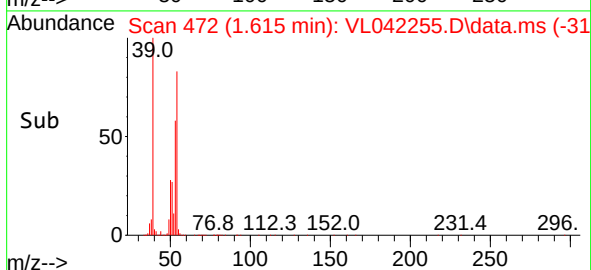
Reviewed By :Semsettin Yesilyurt 04/09/2025
Supervised By :Mahesh Dadoda 04/09/2025

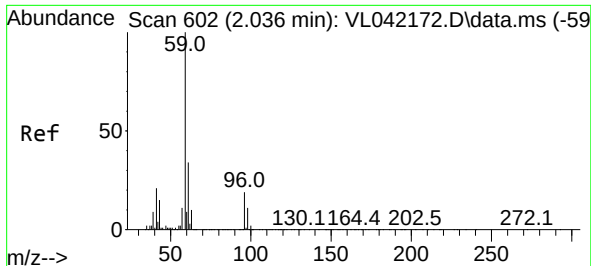


#16
1,3-Butadiene
Concen: 8.904 ppbv
RT: 1.615 min Scan# 472
Delta R.T. 0.010 min
Lab File: VL042255.D
Acq: 08 Apr 2025 10:05



Tgt Ion: 39 Resp: 115796
Ion Ratio Lower Upper
39 100
54 71.9 60.7 91.1





#17

tert-Butyl alcohol

Concen: 8.371 ppbv

RT: 2.049 min Scan# 60

Delta R.T. 0.013 min

Lab File: VL042255.D

Acq: 08 Apr 2025 10:05

Instrument :

MSVOA_L

ClientSampleId :

VL0408ABS01

Tgt Ion: 59 Resp: 277654

Ion Ratio Lower Upper

59 100

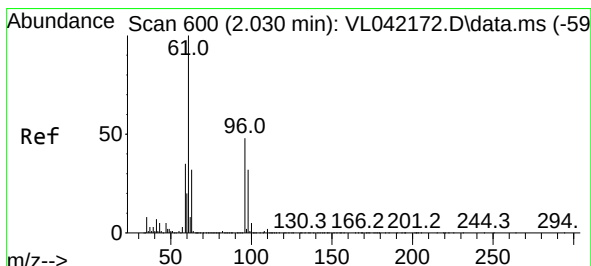
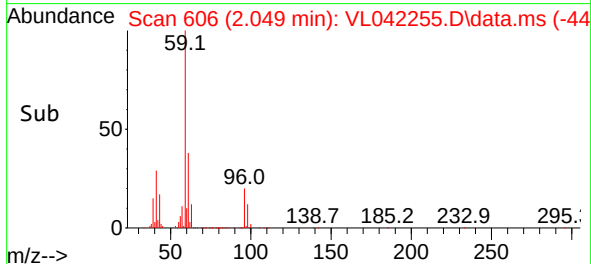
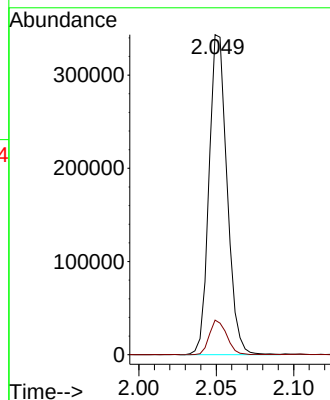
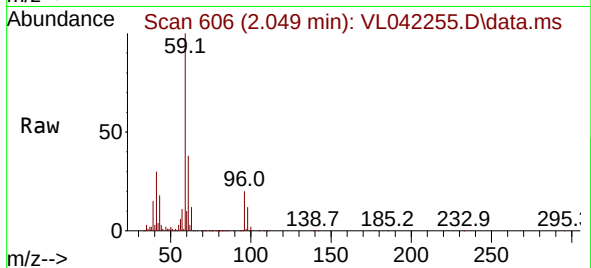
57 10.3 8.9 13.3

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/09/2025

Supervised By :Mahesh Dadoda 04/09/2025



#18

1,1-Dichloroethene

Concen: 8.862 ppbv

RT: 2.043 min Scan# 604

Delta R.T. 0.013 min

Lab File: VL042255.D

Acq: 08 Apr 2025 10:05

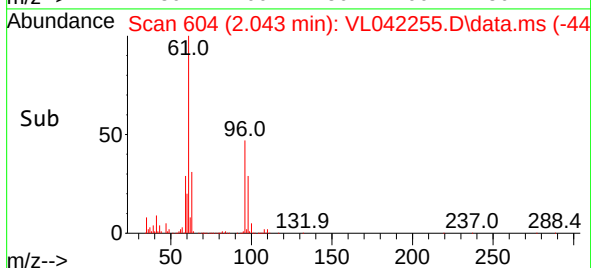
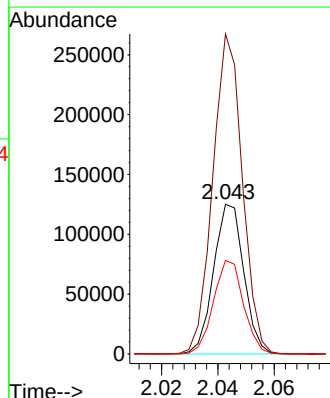
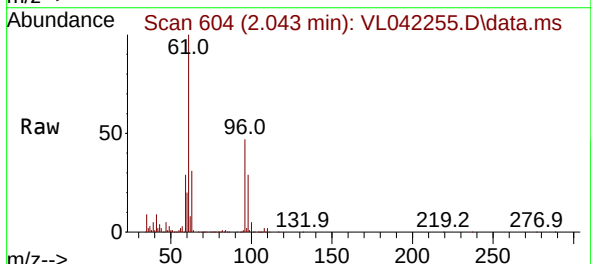
Tgt Ion: 96 Resp: 93164

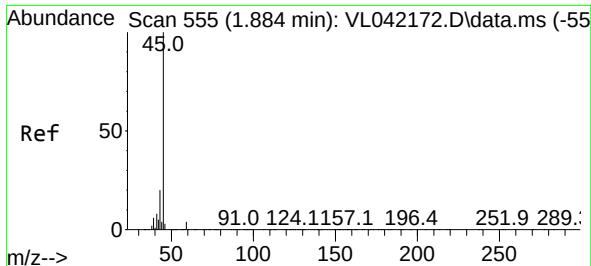
Ion Ratio Lower Upper

96 100

61 213.3 167.6 251.4

98 62.4 53.5 80.3





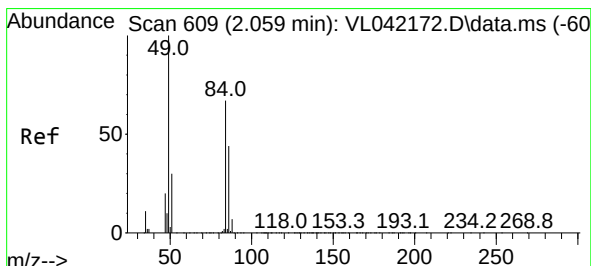
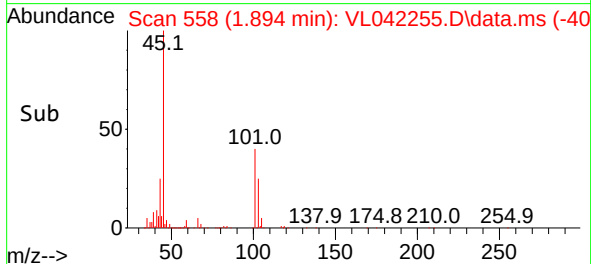
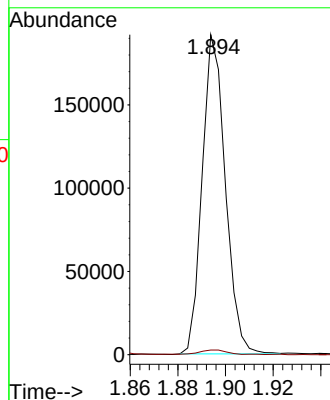
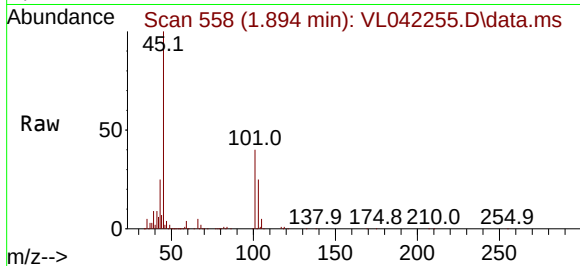
#19
Isopropyl Alcohol
Concen: 8.613 ppbv
RT: 1.894 min Scan# 510
Delta R.T. 0.010 min
Lab File: VL042255.D
Acq: 08 Apr 2025 10:05

Instrument :
MSVOA_L
ClientSampleId :
VL0408ABS01

Tgt Ion: 45 Resp: 129418
Ion Ratio Lower Upper
45 100
58 2.1 36.9 55.3

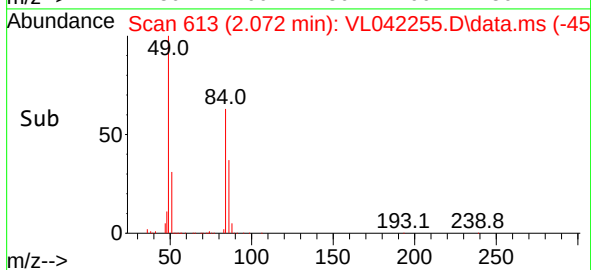
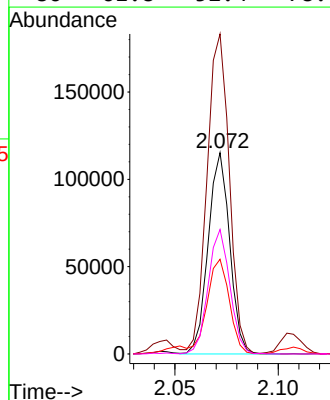
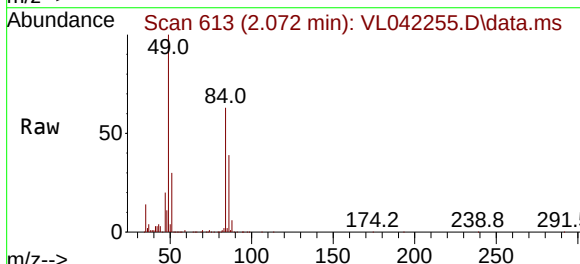
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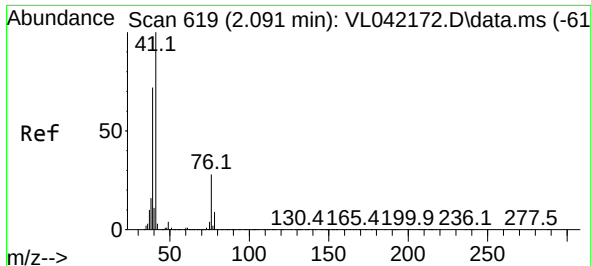
Reviewed By :Semsettin Yesilyurt 04/09/2025
Supervised By :Mahesh Dadoda 04/09/2025



#20
Methylene Chloride
Concen: 8.396 ppbv
RT: 2.072 min Scan# 613
Delta R.T. 0.013 min
Lab File: VL042255.D
Acq: 08 Apr 2025 10:05

Tgt Ion: 84 Resp: 83277
Ion Ratio Lower Upper
84 100
49 156.9 120.2 180.4
51 44.9 37.4 56.0
86 61.8 52.4 78.6





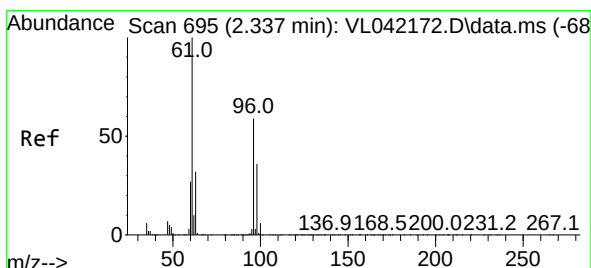
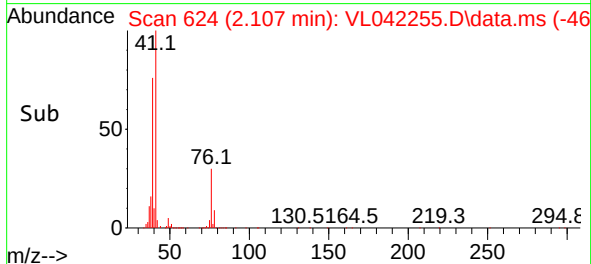
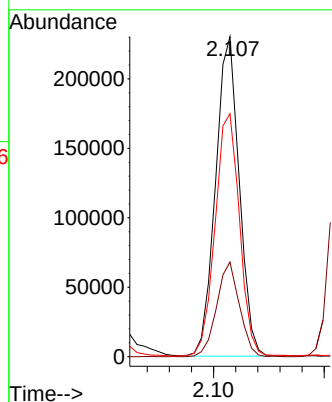
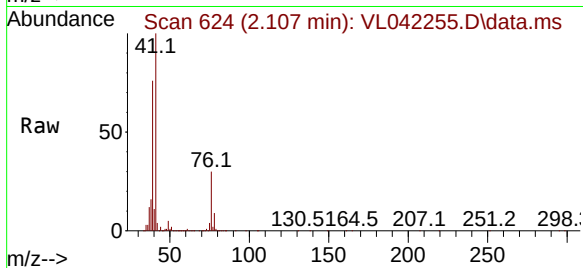
#21
 Allyl Chloride
 Concen: 9.105 ppbv
 RT: 2.107 min Scan# 61
 Delta R.T. 0.016 min
 Lab File: VL042255.D
 Acq: 08 Apr 2025 10:05

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0408ABS01

Tgt Ion: 41 Resp: 17101
 Ion Ratio Lower Upper
 41 100
 76 28.5 24.1 36.1
 39 77.8 61.1 91.7

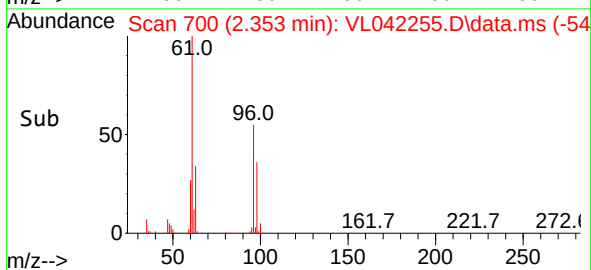
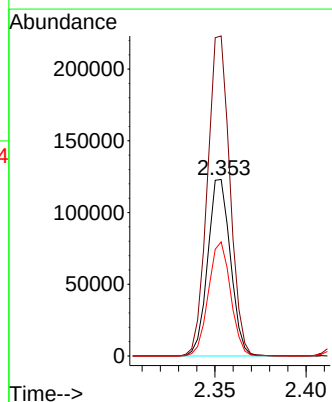
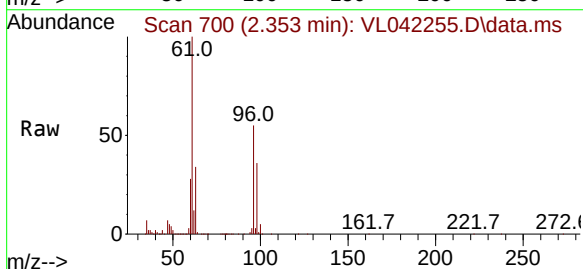
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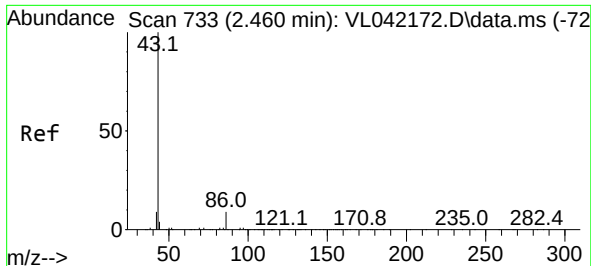
Reviewed By :Semsettin Yesilyurt 04/09/2025
 Supervised By :Mahesh Dadoda 04/09/2025



#22
 trans-1,2-Dichloroethene
 Concen: 8.782 ppbv
 RT: 2.353 min Scan# 700
 Delta R.T. 0.016 min
 Lab File: VL042255.D
 Acq: 08 Apr 2025 10:05

Tgt Ion: 96 Resp: 106692
 Ion Ratio Lower Upper
 96 100
 61 181.3 136.6 204.8
 98 64.6 49.4 74.2





#23
 Vinyl Acetate
 Concen: 8.549 ppbv
 RT: 2.476 min Scan# 71
 Delta R.T. 0.016 min
 Lab File: VL042255.D
 Acq: 08 Apr 2025 10:05

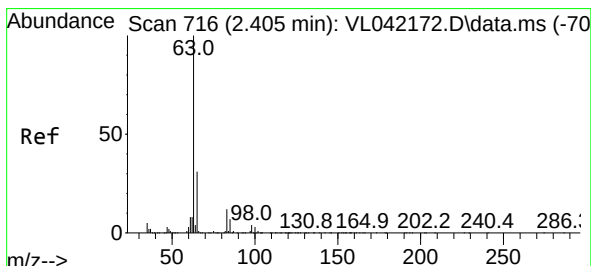
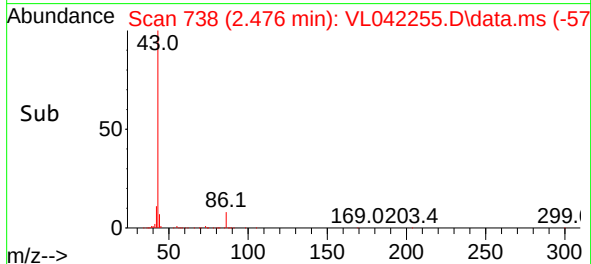
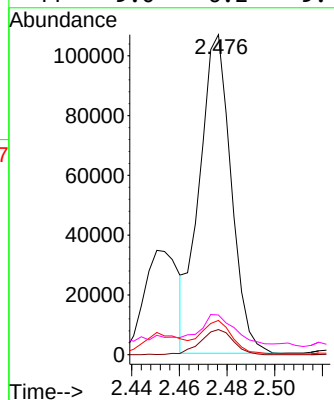
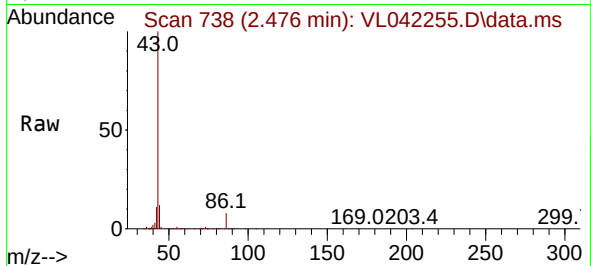
Instrument :
 MSVOA_L
 ClientSampleId :
 VL0408ABS01

Tgt Ion: 43 Resp: 9853

Ion	Ratio	Lower	Upper
43	100		
86	7.9	5.5	8.3
42	9.9	8.6	13.0
44	9.0	6.2	9.4

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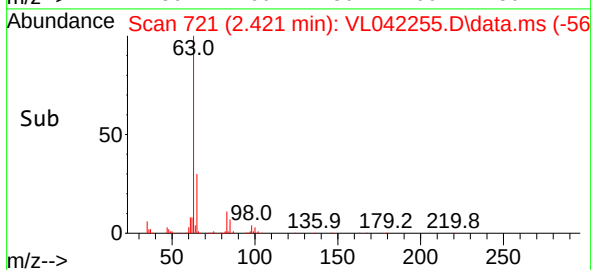
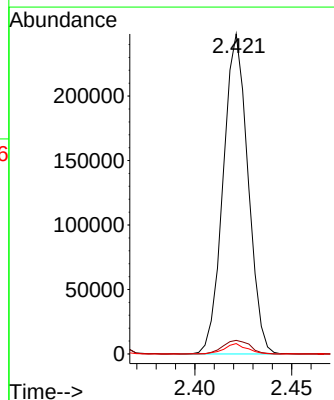
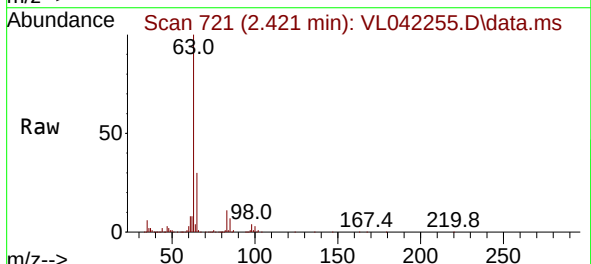
Reviewed By :Semsettin Yesilyurt 04/09/2025
 Supervised By :Mahesh Dadoda 04/09/2025

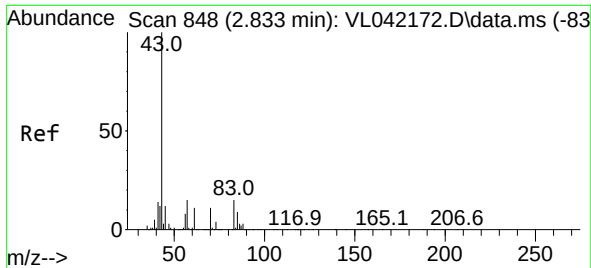


#24
 1,1-Dichloroethane
 Concen: 9.814 ppbv
 RT: 2.421 min Scan# 721
 Delta R.T. 0.016 min
 Lab File: VL042255.D
 Acq: 08 Apr 2025 10:05

Tgt Ion: 63 Resp: 221032

Ion	Ratio	Lower	Upper
63	100		
98	4.2	2.3	6.8
100	3.3	1.6	4.7





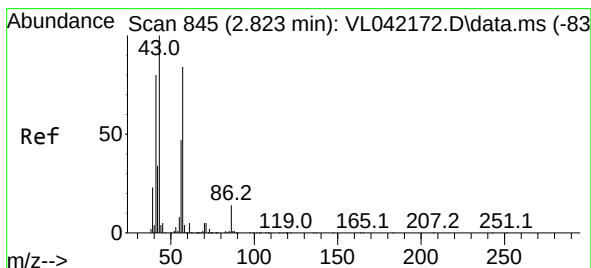
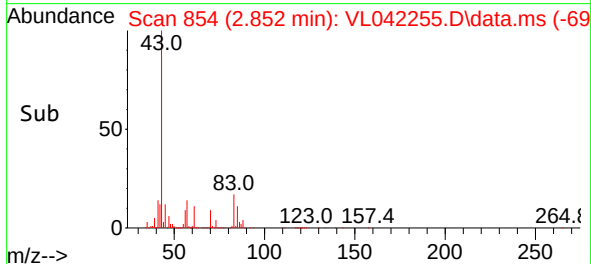
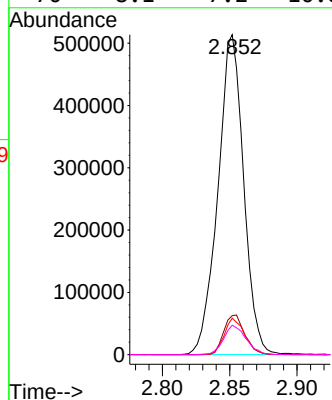
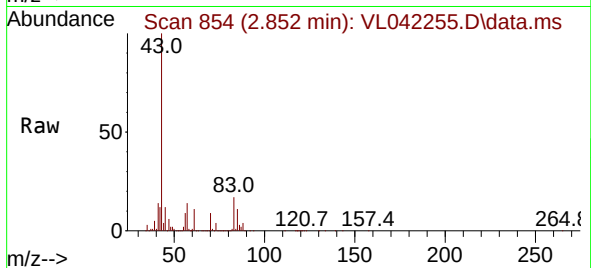
#25
Ethyl Acetate
Concen: 9.854 ppbv
RT: 2.852 min Scan# 80
Delta R.T. 0.019 min
Lab File: VL042255.D
Acq: 08 Apr 2025 10:05

Instrument :
MSVOA_L
ClientSampleId :
VL0408ABS01

Tgt Ion: 43 Resp: 68113
Ion Ratio Lower Upper
43 100
45 10.2 8.2 12.2
61 9.2 7.3 10.9
70 8.1 7.2 10.8

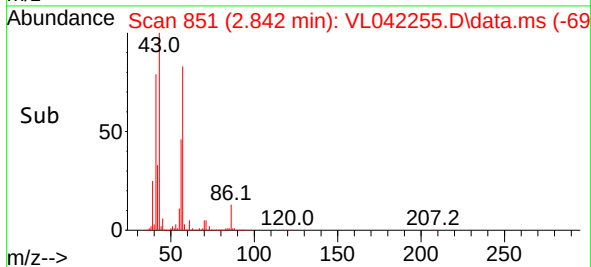
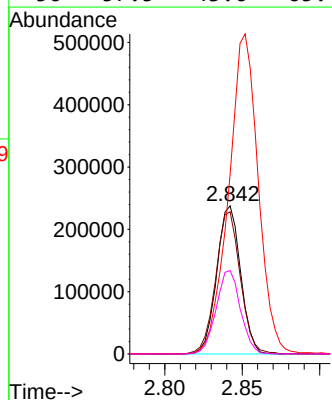
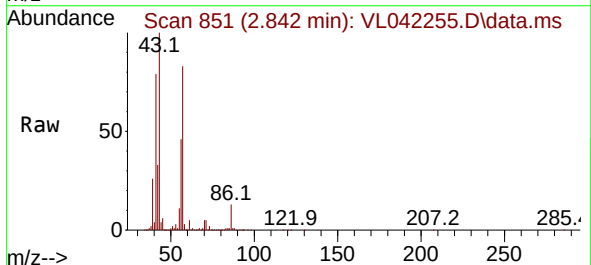
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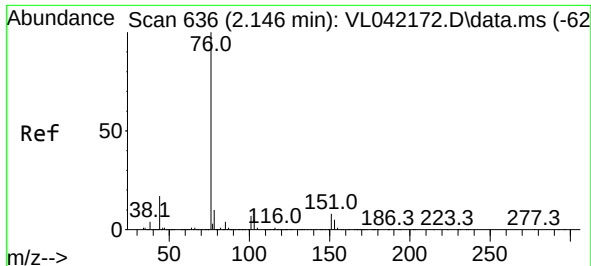
Reviewed By :Semsettin Yesilyurt 04/09/2025
Supervised By :Mahesh Dadoda 04/09/2025



#26
Hexane
Concen: 9.519 ppbv
RT: 2.842 min Scan# 851
Delta R.T. 0.019 min
Lab File: VL042255.D
Acq: 08 Apr 2025 10:05

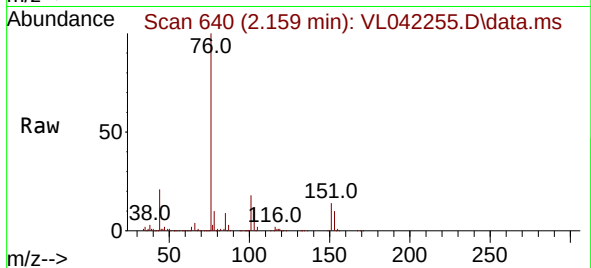
Tgt Ion: 57 Resp: 254141
Ion Ratio Lower Upper
57 100
41 99.4 76.6 114.8
43 268.9 207.8 311.8
56 57.5 43.6 65.4





#27
Carbon Disulfide
Concen: 9.046 ppbv
RT: 2.159 min Scan# 640
Delta R.T. 0.013 min
Lab File: VL042255.D
Acq: 08 Apr 2025 10:05

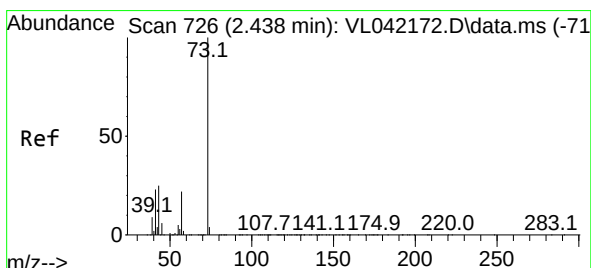
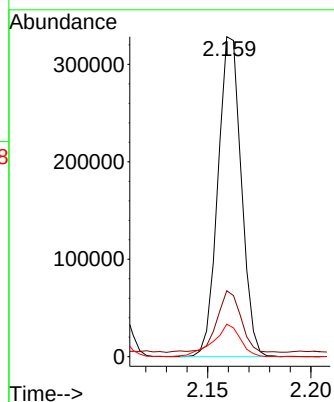
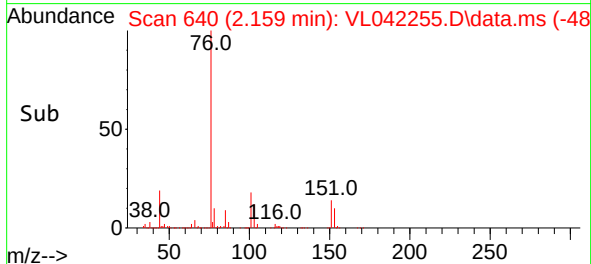
Instrument :
MSVOA_L
ClientSampleId :
VL0408ABS01



Tgt Ion: 76 Resp: 258972
Ion Ratio Lower Upper
76 100
44 19.1 14.7 22.1
78 11.7 9.3 13.9

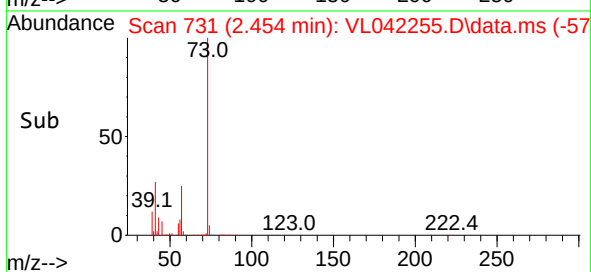
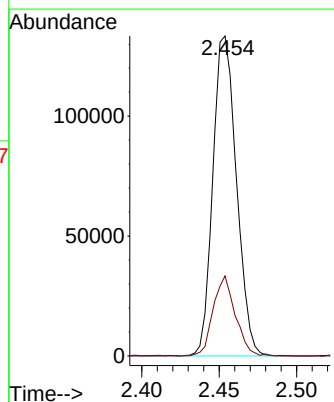
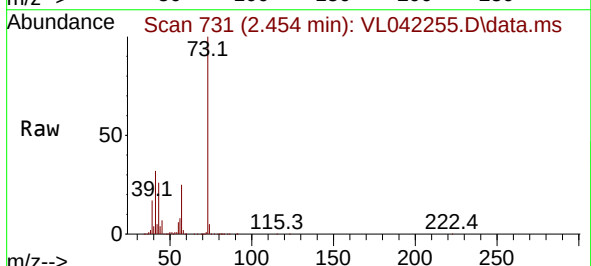
Manual Integrations
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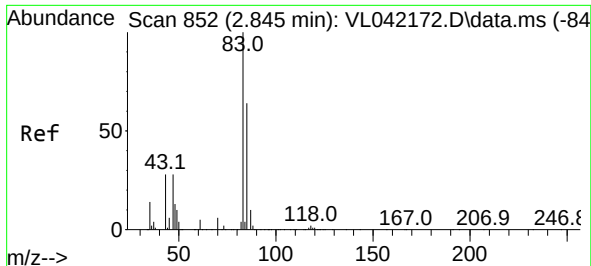
Reviewed By :Semsettin Yesilyurt 04/09/2025
Supervised By :Mahesh Dadoda 04/09/2025



#28
Methyl tert-Butyl Ether
Concen: 8.506 ppbv
RT: 2.454 min Scan# 731
Delta R.T. 0.016 min
Lab File: VL042255.D
Acq: 08 Apr 2025 10:05

Tgt Ion: 73 Resp: 141395
Ion Ratio Lower Upper
73 100
57 23.8 20.5 30.7





#29

Chloroform

Concen: 10.507 ppbv

RT: 2.865 min Scan# 81

Delta R.T. 0.019 min

Lab File: VL042255.D

Acq: 08 Apr 2025 10:05

Instrument :

MSVOA_L

ClientSampleId :

VL0408ABS01

Tgt Ion: 83 Resp: 41052

Ion Ratio Lower Upper

83 100

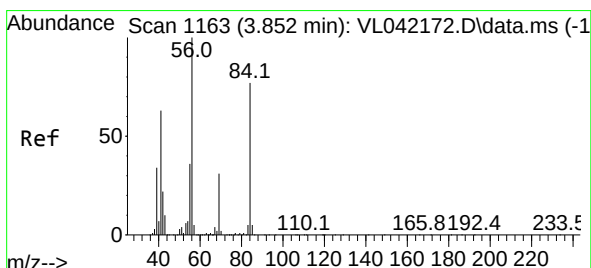
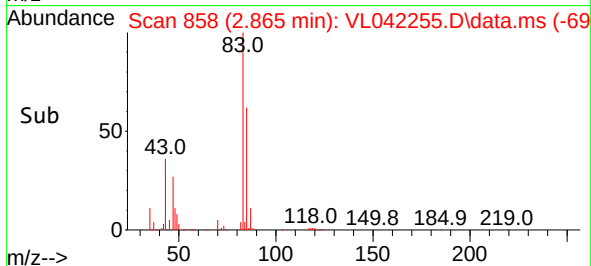
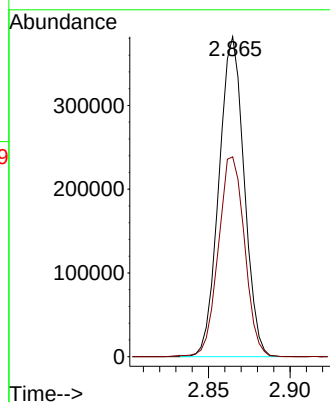
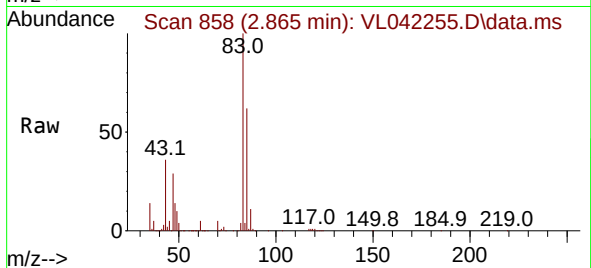
85 62.4 51.4 77.2

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 04/09/2025

Supervised By :Mahesh Dadoda 04/09/2025



#30

Cyclohexane

Concen: 9.112 ppbv

RT: 3.878 min Scan# 1171

Delta R.T. 0.026 min

Lab File: VL042255.D

Acq: 08 Apr 2025 10:05

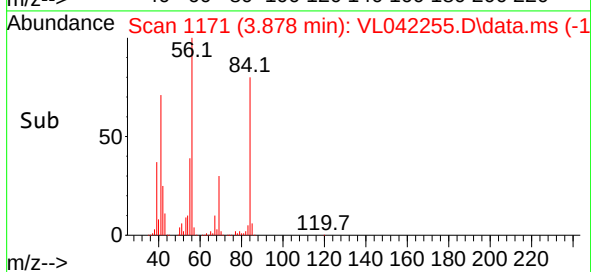
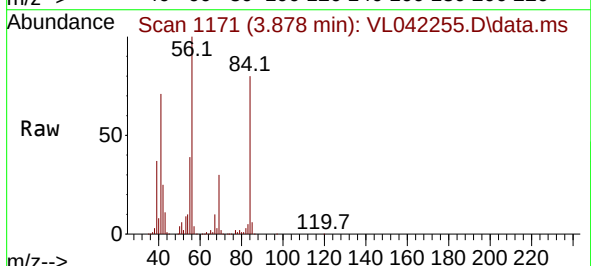
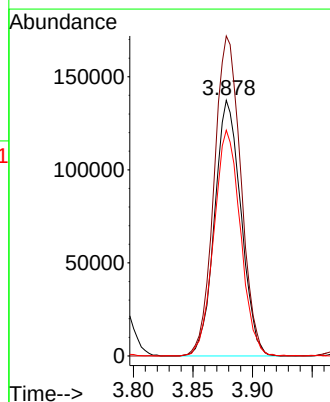
Tgt Ion: 84 Resp: 211231

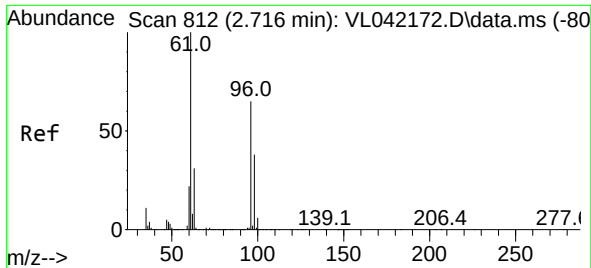
Ion Ratio Lower Upper

84 100

56 126.6 102.8 154.2

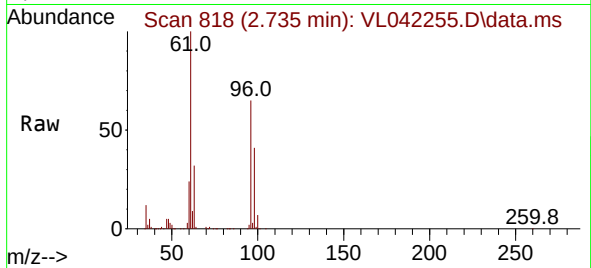
41 88.8 66.5 99.7





#31
 cis-1,2-Dichloroethene
 Concen: 9.268 ppbv
 RT: 2.735 min Scan# 812
 Delta R.T. 0.019 min
 Lab File: VL042255.D
 Acq: 08 Apr 2025 10:05

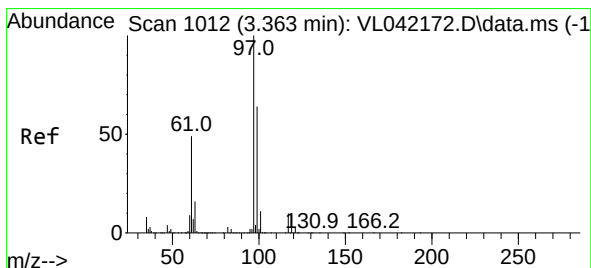
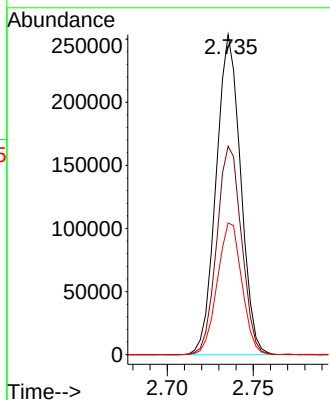
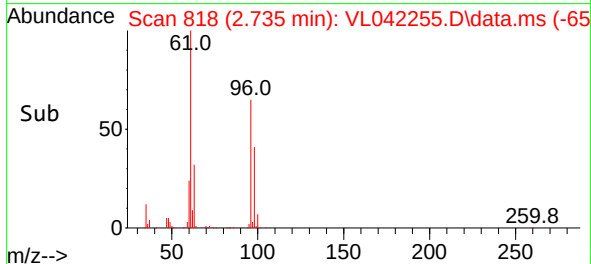
Instrument :
 MSVOA_L
 ClientSampleId :
 VL0408ABS01



Tgt Ion: 61 Resp: 25120
 Ion Ratio Lower Upper
 61 100
 96 65.1 51.8 77.8
 98 41.2 30.6 46.0

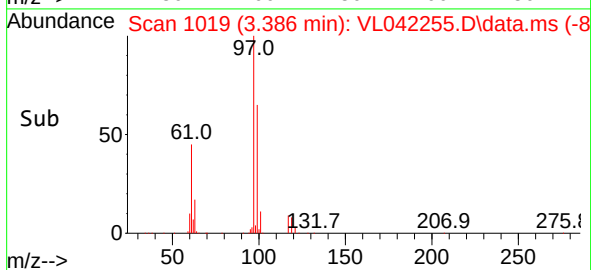
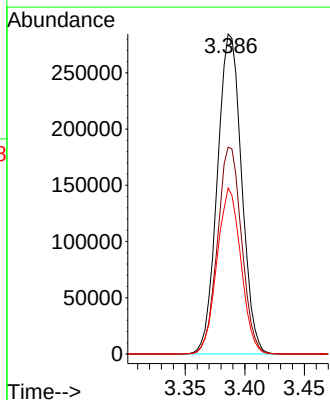
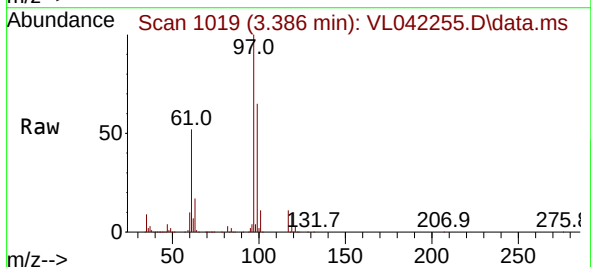
Manual Integrations
 APPROVED

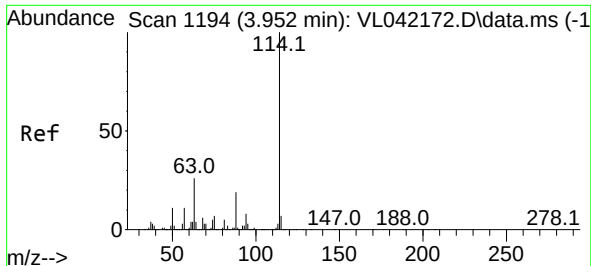
Reviewed By :Semsettin Yesilyurt 04/09/2025
 Supervised By :Mahesh Dadoda 04/09/2025



#32
 1,1,1-Trichloroethane
 Concen: 8.998 ppbv
 RT: 3.386 min Scan# 1019
 Delta R.T. 0.023 min
 Lab File: VL042255.D
 Acq: 08 Apr 2025 10:05

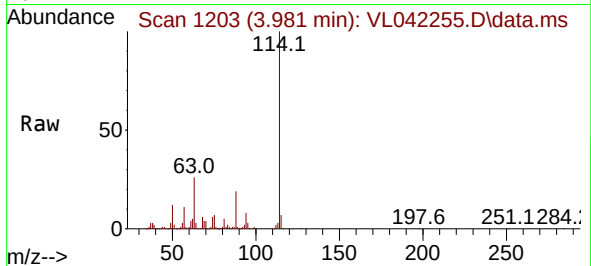
Tgt Ion: 97 Resp: 402513
 Ion Ratio Lower Upper
 97 100
 99 64.2 51.5 77.3
 61 51.2 38.7 58.1





#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.981 min Scan# 1194
Delta R.T. 0.029 min
Lab File: VL042255.D
Acq: 08 Apr 2025 10:05

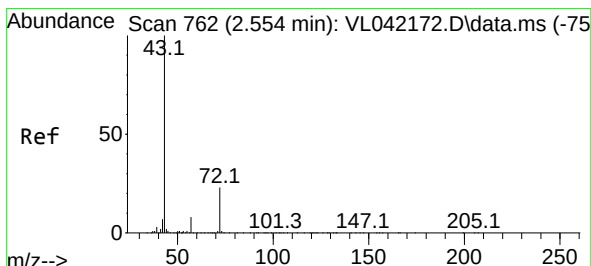
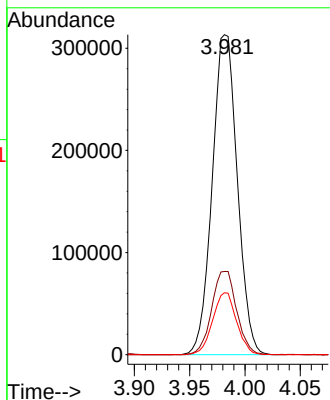
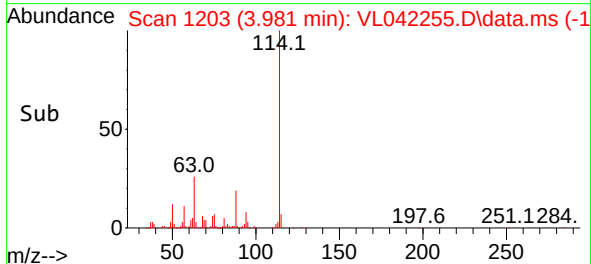
Instrument :
MSVOA_L
ClientSampleId :
VL0408ABS01



Tgt Ion:114 Resp: 494678
Ion Ratio Lower Upper
114 100
63 26.0 20.7 31.1
88 18.5 15.0 22.4

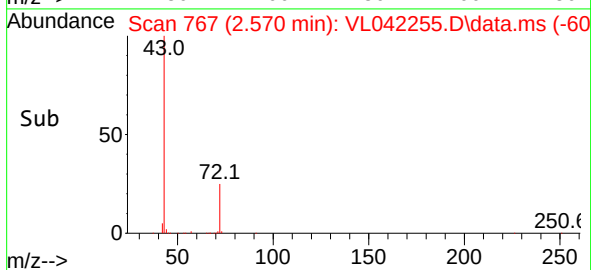
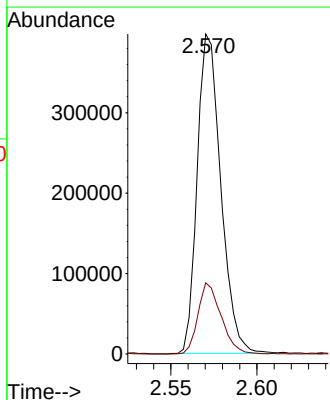
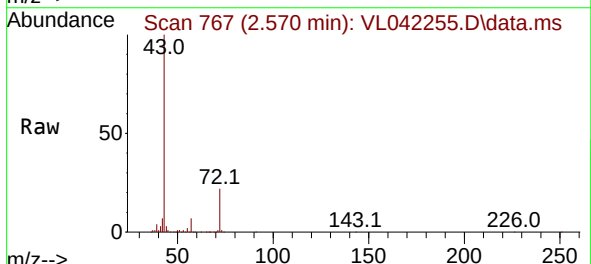
Manual Integrations
APPROVED

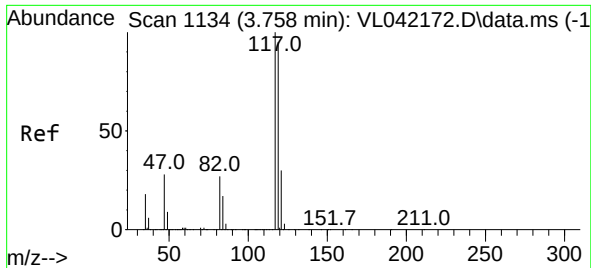
Reviewed By :Semsettin Yesilyurt 04/09/2025
Supervised By :Mahesh Dadoda 04/09/2025



#34
2-Butanone
Concen: 10.575 ppbv
RT: 2.570 min Scan# 767
Delta R.T. 0.016 min
Lab File: VL042255.D
Acq: 08 Apr 2025 10:05

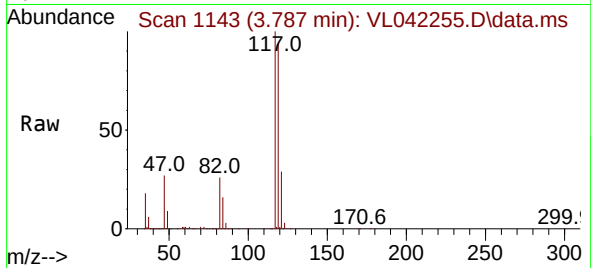
Tgt Ion: 43 Resp: 379327
Ion Ratio Lower Upper
43 100
72 21.8 18.2 27.2





#35
Carbon Tetrachloride
Concen: 10.828 ppbv
RT: 3.787 min Scan# 1110
Delta R.T. 0.029 min
Lab File: VL042255.D
Acq: 08 Apr 2025 10:05

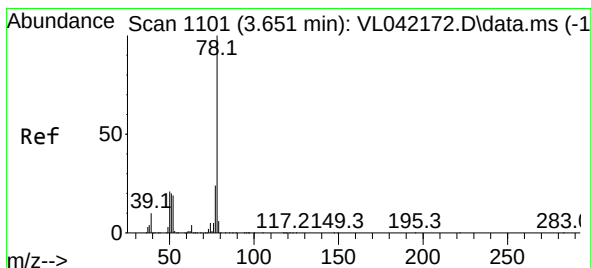
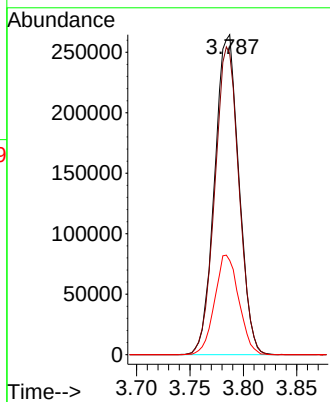
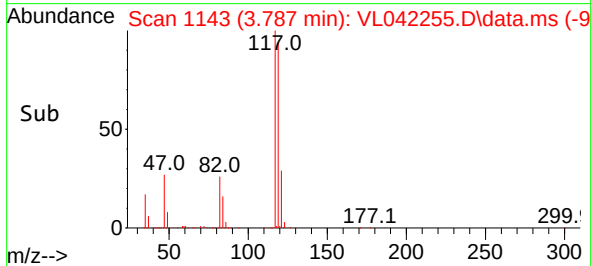
Instrument :
MSVOA_L
ClientSampleId :
VL0408ABS01



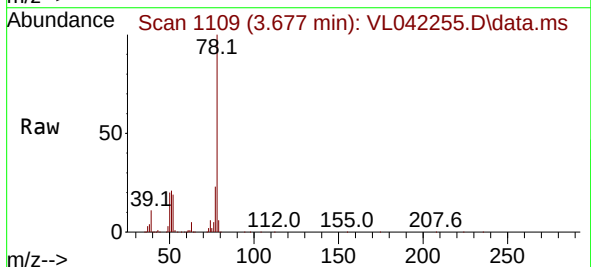
Tgt Ion: 117 Resp: 418420
Ion Ratio Lower Upper
117 100
119 94.1 76.2 114.2
121 29.5 24.2 36.4

Manual Integrations
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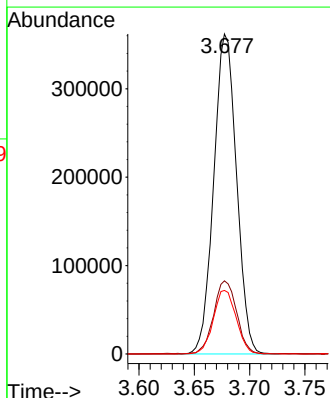
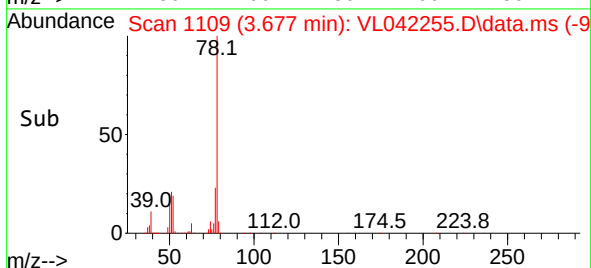
Reviewed By :Semsettin Yesilyurt 04/09/2025
Supervised By :Mahesh Dadoda 04/09/2025

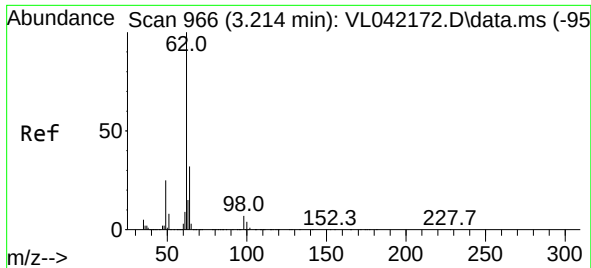


#36
Benzene
Concen: 10.564 ppbv
RT: 3.677 min Scan# 1109
Delta R.T. 0.026 min
Lab File: VL042255.D
Acq: 08 Apr 2025 10:05



Tgt Ion: 78 Resp: 518095
Ion Ratio Lower Upper
78 100
77 22.8 19.1 28.7
50 19.9 16.6 24.8





#37

1,2-Dichloroethane

Concen: 11.226 ppbv

RT: 3.237 min Scan# 91

Delta R.T. 0.023 min

Lab File: VL042255.D

Acq: 08 Apr 2025 10:05

Instrument :

MSVOA_L

ClientSampleId :

VL0408ABS01

Tgt Ion: 62 Resp: 315190

Ion Ratio Lower Upper

62 100

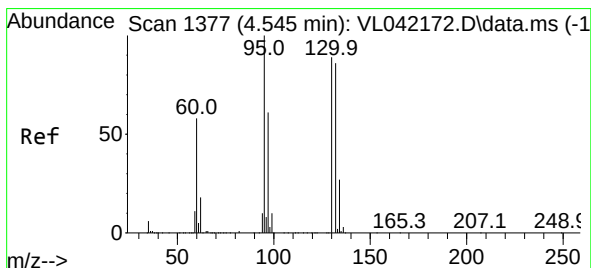
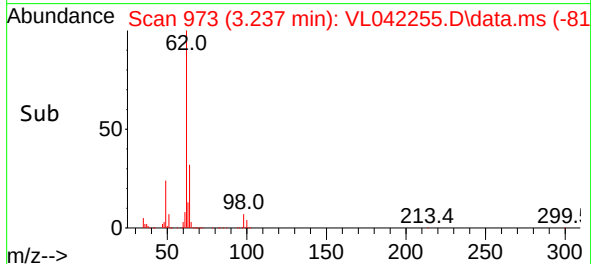
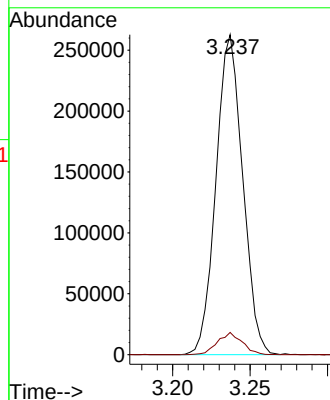
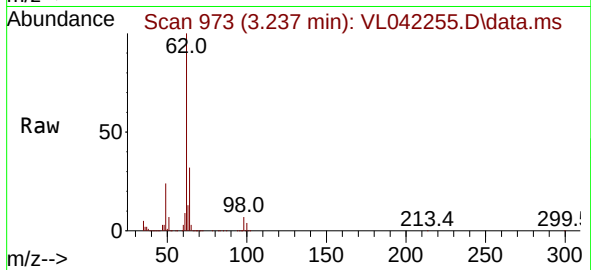
98 6.4 5.4 8.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/09/2025

Supervised By :Mahesh Dadoda 04/09/2025



#38

Trichloroethene

Concen: 10.061 ppbv

RT: 4.577 min Scan# 1387

Delta R.T. 0.032 min

Lab File: VL042255.D

Acq: 08 Apr 2025 10:05

Tgt Ion:130 Resp: 205867

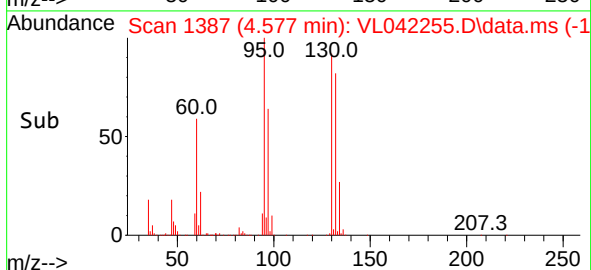
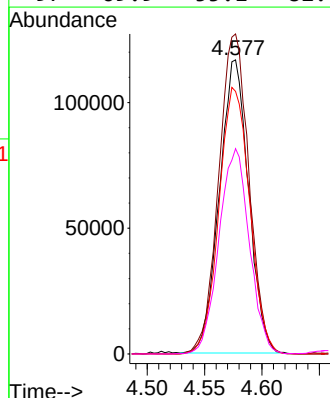
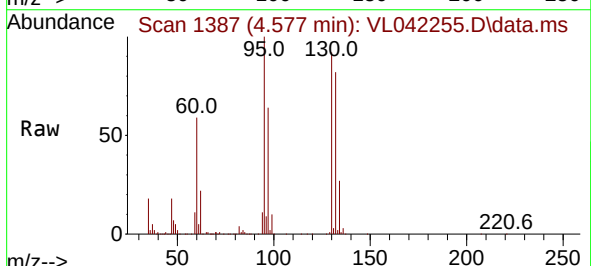
Ion Ratio Lower Upper

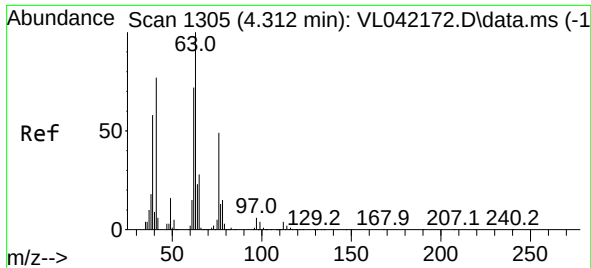
130 100

95 109.2 89.8 134.8

132 89.5 77.4 116.2

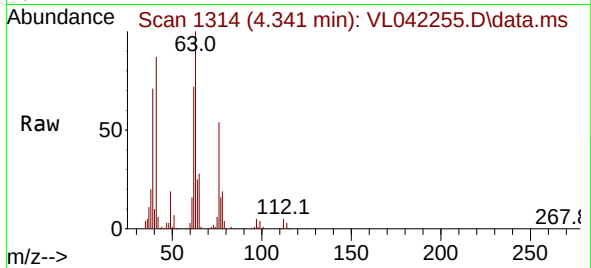
97 69.9 55.1 82.7





#39
 1,2-Dichloropropane
 Concen: 10.403 ppbv
 RT: 4.341 min Scan# 1314
 Delta R.T. 0.029 min
 Lab File: VL042255.D
 Acq: 08 Apr 2025 10:05

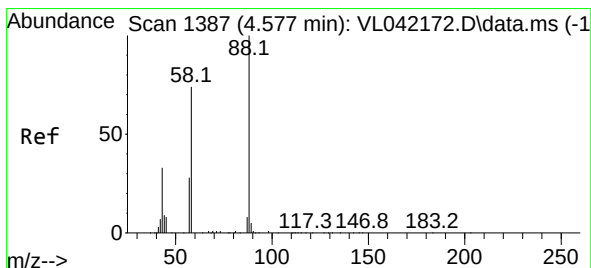
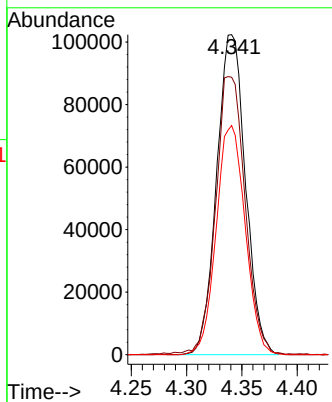
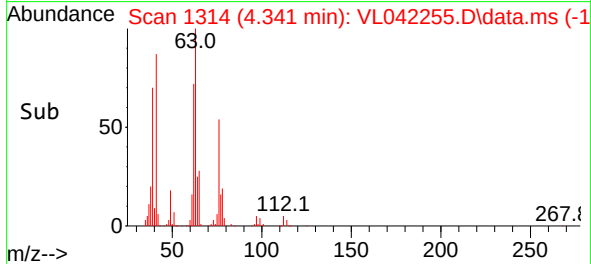
Instrument :
 MSVOA_L
 ClientSampleId :
 VL0408ABS01



Tgt Ion: 63 Resp: 18579
 Ion Ratio Lower Upper
 63 100
 41 86.0 61.7 92.5
 62 71.6 57.6 86.4

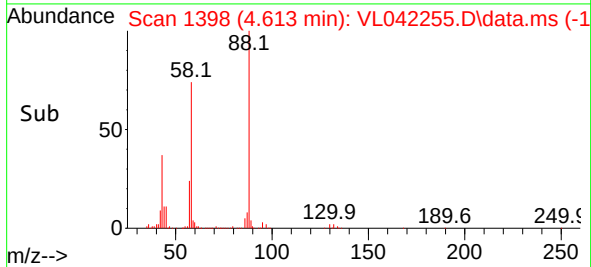
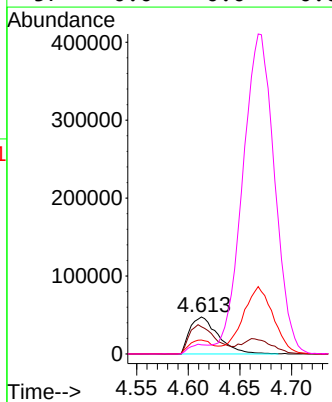
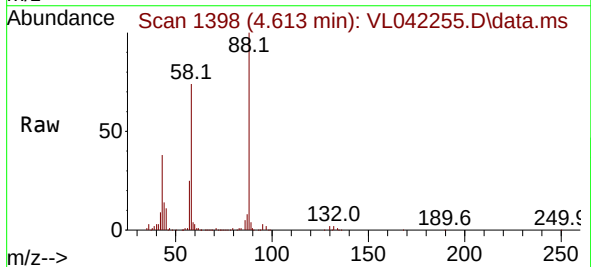
Manual Integrations
 APPROVED

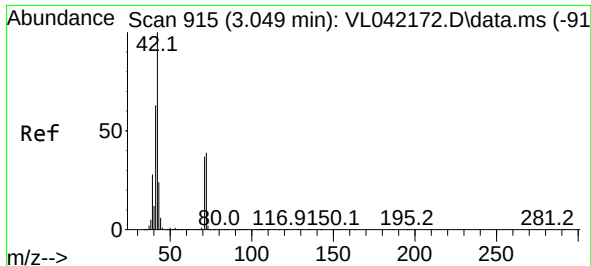
Reviewed By :Semsettin Yesilyurt 04/09/2025
 Supervised By :Mahesh Dadoda 04/09/2025



#40
 1,4-Dioxane
 Concen: 9.608 ppbv
 RT: 4.613 min Scan# 1398
 Delta R.T. 0.036 min
 Lab File: VL042255.D
 Acq: 08 Apr 2025 10:05

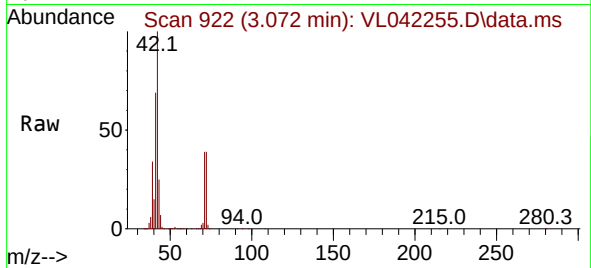
Tgt Ion: 88 Resp: 91079
 Ion Ratio Lower Upper
 88 100
 58 72.4 62.7 94.1
 43 34.3 23.0 34.4
 57 0.0 0.0 0.0





#41
Tetrahydrofuran
Concen: 10.168 ppbv
RT: 3.072 min Scan# 915
Delta R.T. 0.023 min
Lab File: VL042255.D
Acq: 08 Apr 2025 10:05

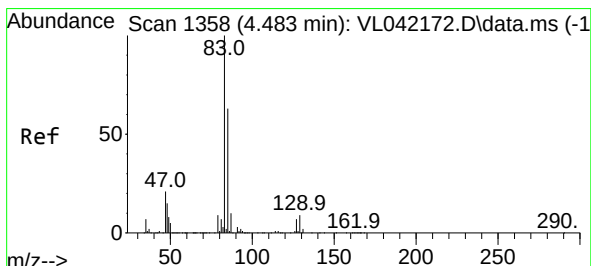
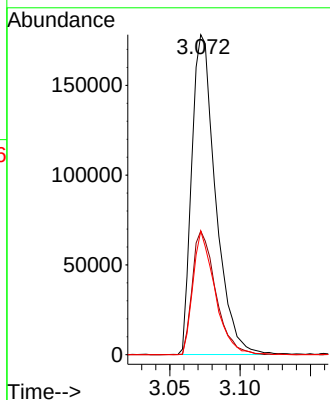
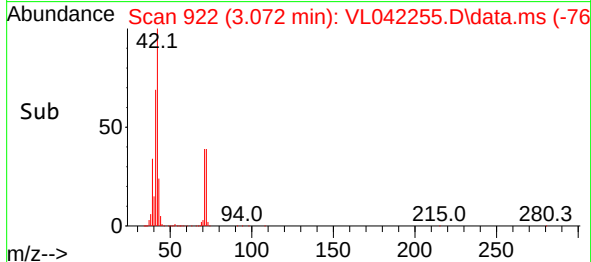
Instrument :
MSVOA_L
ClientSampleId :
VL0408ABS01



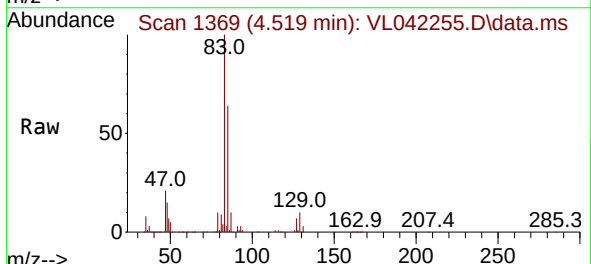
Tgt Ion: 42 Resp: 210024
Ion Ratio Lower Upper
42 100
72 38.1 31.4 47.0
71 35.8 30.2 45.4

Manual Integrations
APPROVED

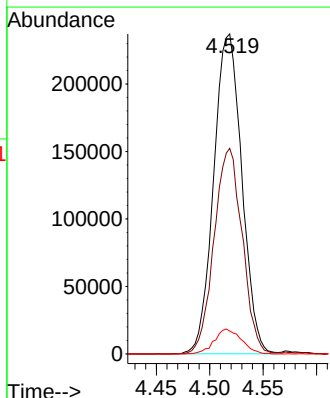
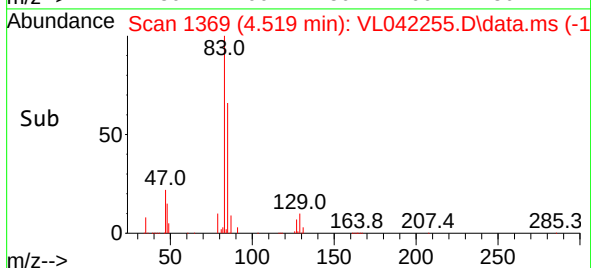
Reviewed By :Semsettin Yesilyurt 04/09/2025
Supervised By :Mahesh Dadoda 04/09/2025

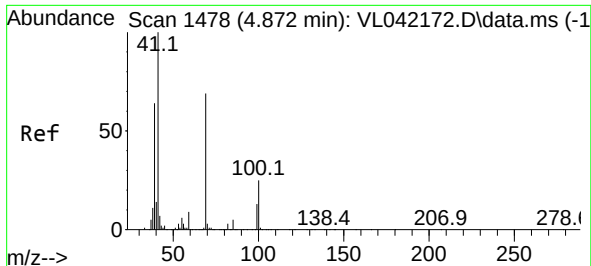


#42
Bromodichloromethane
Concen: 11.217 ppbv
RT: 4.519 min Scan# 1369
Delta R.T. 0.036 min
Lab File: VL042255.D
Acq: 08 Apr 2025 10:05



Tgt Ion: 83 Resp: 434165
Ion Ratio Lower Upper
83 100
85 64.2 50.5 75.7
127 7.2 5.9 8.9





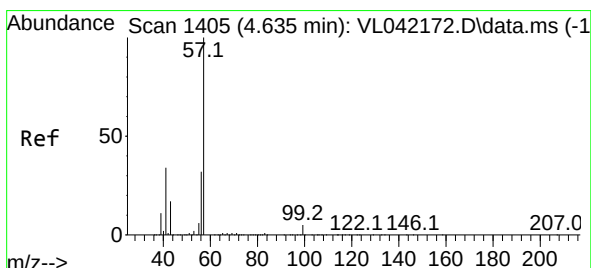
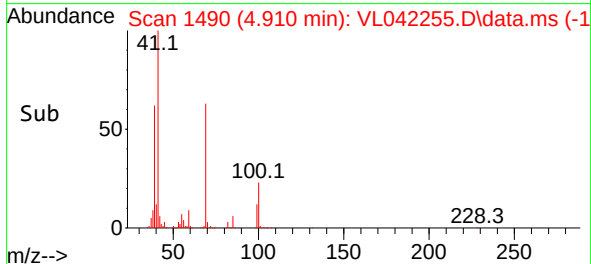
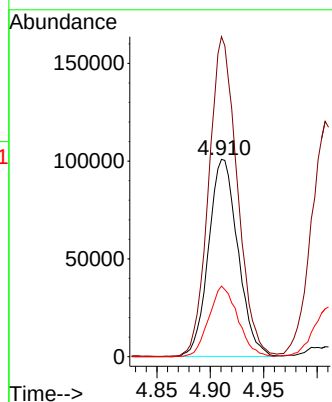
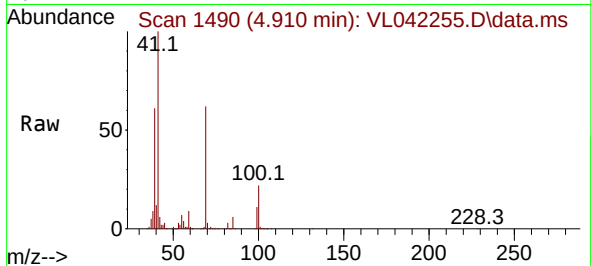
#43
Methyl Methacrylate
Concen: 9.277 ppbv
RT: 4.910 min Scan# 1415
Delta R.T. 0.039 min
Lab File: VL042255.D
Acq: 08 Apr 2025 10:05

Instrument :
MSVOA_L
ClientSampleId :
VL0408ABS01

Tgt Ion: 69 Resp: 19259
Ion Ratio Lower Upper
69 100
41 157.9 123.8 185.6
100 35.4 28.4 42.6

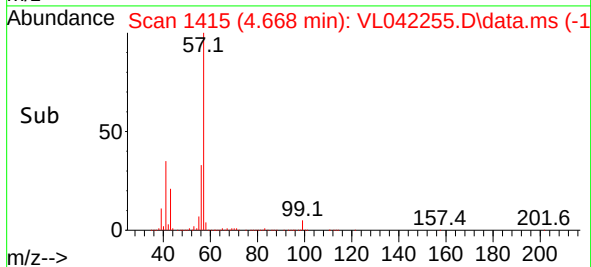
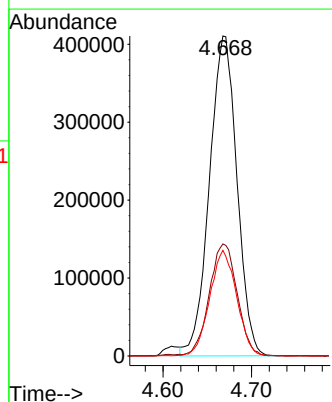
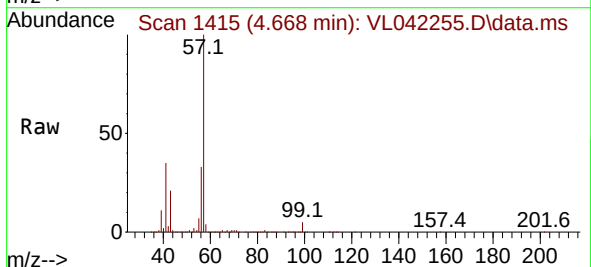
Manual Integrations
APPROVED

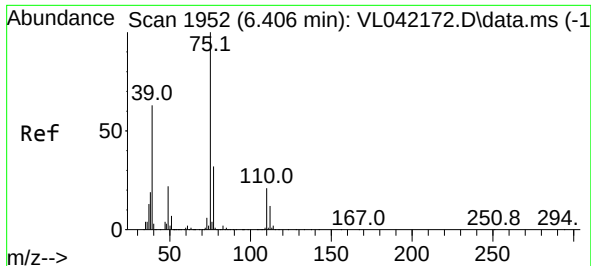
Reviewed By :Semsettin Yesilyurt 04/09/2025
Supervised By :Mahesh Dadoda 04/09/2025



#44
2,2,4-Trimethylpentane
Concen: 10.701 ppbv
RT: 4.668 min Scan# 1415
Delta R.T. 0.032 min
Lab File: VL042255.D
Acq: 08 Apr 2025 10:05

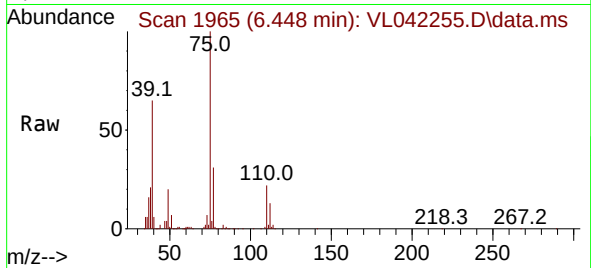
Tgt Ion: 57 Resp: 886873
Ion Ratio Lower Upper
57 100
41 35.8 26.8 40.2
56 32.5 25.6 38.4





#45
t-1,3-Dichloropropene
Concen: 8.299 ppbv
RT: 6.448 min Scan# 1952
Delta R.T. 0.042 min
Lab File: VL042255.D
Acq: 08 Apr 2025 10:05

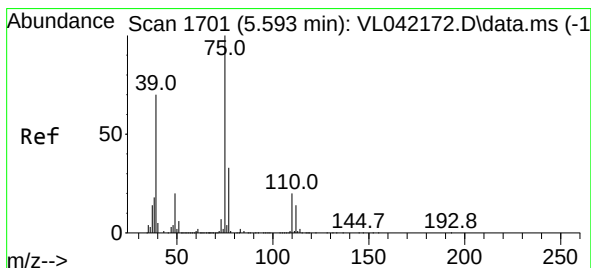
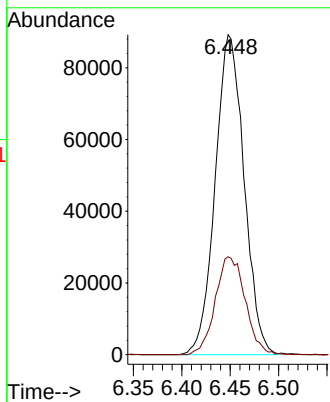
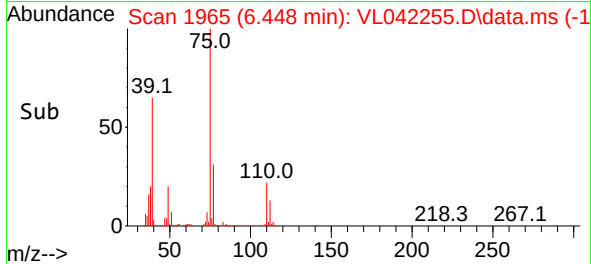
Instrument :
MSVOA_L
ClientSampleId :
VL0408ABS01



Tgt Ion: 75 Resp: 18485
Ion Ratio Lower Upper
75 100
77 30.6 26.0 39.0

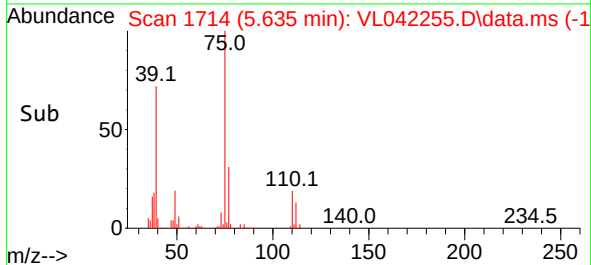
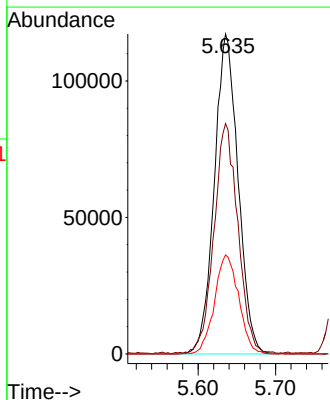
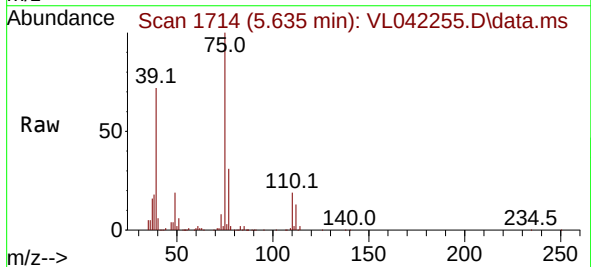
Manual Integrations
APPROVED

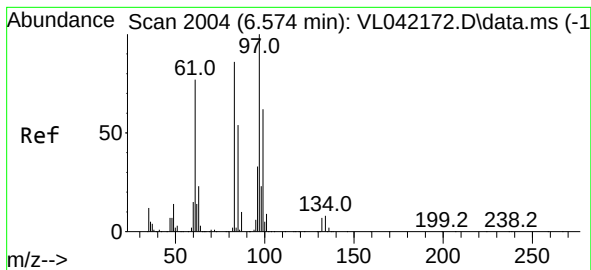
Reviewed By :Semsettin Yesilyurt 04/09/2025
Supervised By :Mahesh Dadoda 04/09/2025



#46
cis-1,3-Dichloropropene
Concen: 9.149 ppbv
RT: 5.635 min Scan# 1714
Delta R.T. 0.042 min
Lab File: VL042255.D
Acq: 08 Apr 2025 10:05

Tgt Ion: 75 Resp: 249791
Ion Ratio Lower Upper
75 100
39 71.8 55.8 83.6
77 31.0 26.0 39.0





#47

1,1,2-Trichloroethane

Concen: 11.166 ppbv

RT: 6.613 min Scan# 2004

Delta R.T. 0.039 min

Lab File: VL042255.D

Acq: 08 Apr 2025 10:05

Instrument :

MSVOA_L

ClientSampleId :

VL0408ABS01

Tgt Ion: 97 Resp: 210809

Ion Ratio Lower Upper

97 100

83 87.5 69.2 103.8

85 51.1 43.1 64.7

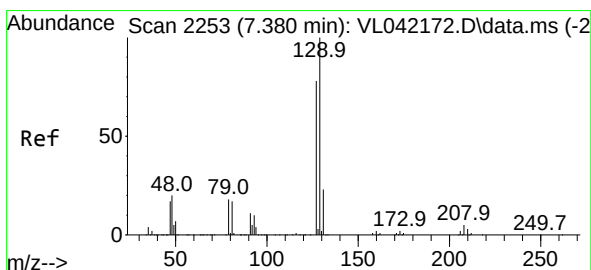
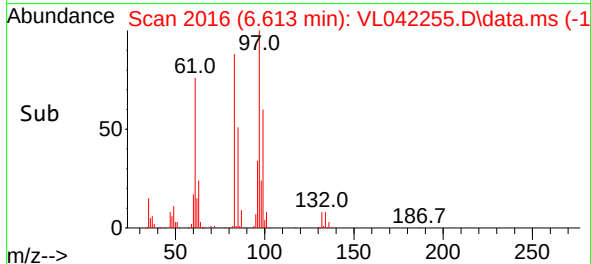
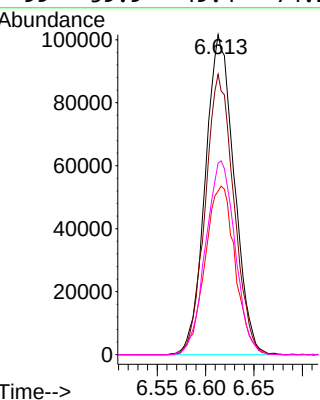
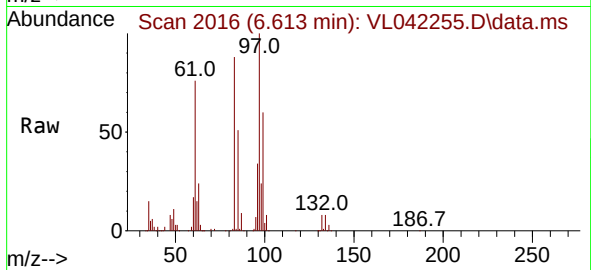
99 59.9 49.4 74.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/09/2025

Supervised By :Mahesh Dadoda 04/09/2025



#48

Dibromochloromethane

Concen: 10.881 ppbv

RT: 7.412 min Scan# 2263

Delta R.T. 0.032 min

Lab File: VL042255.D

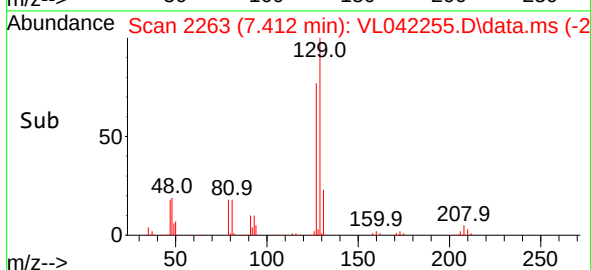
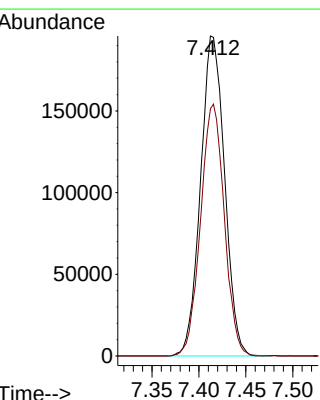
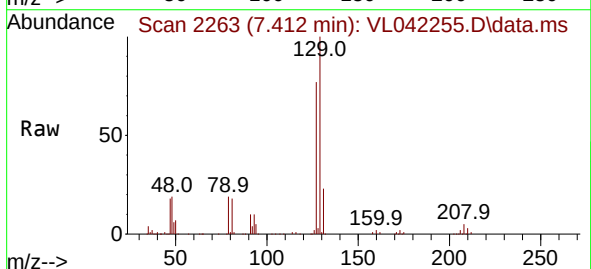
Acq: 08 Apr 2025 10:05

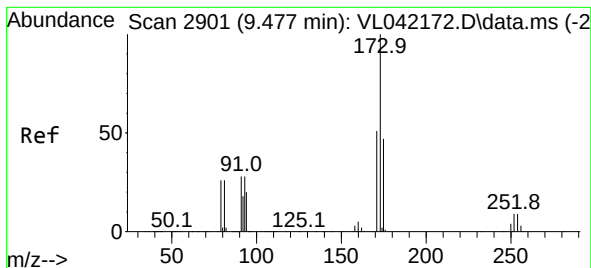
Tgt Ion:129 Resp: 348149

Ion Ratio Lower Upper

129 100

127 77.6 39.1 117.2





#49

Bromoform

Concen: 10.703 ppbv

RT: 9.503 min Scan# 2901

Delta R.T. 0.026 min

Lab File: VL042255.D

Acq: 08 Apr 2025 10:05

Instrument :

MSVOA_L

ClientSampleId :

VL0408ABS01

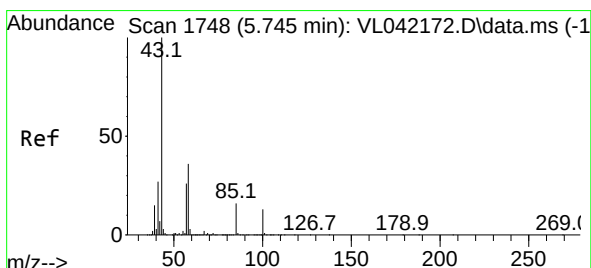
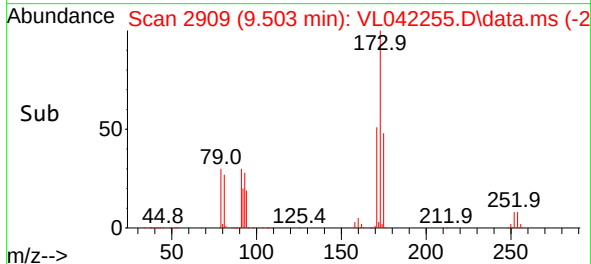
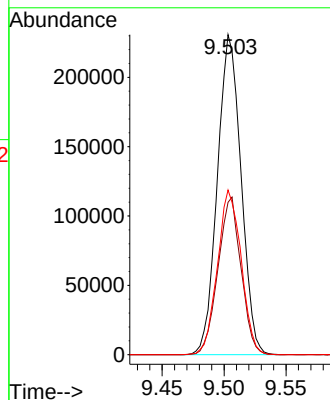
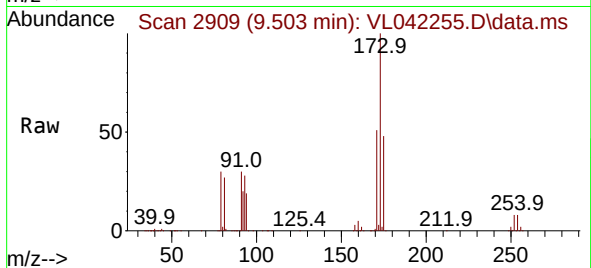
Tgt Ion:173 Resp: 30746

Ion	Ratio	Lower	Upper
173	100		
175	47.9	38.6	57.8
171	51.5	41.8	62.6

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/09/2025
Supervised By :Mahesh Dadoda 04/09/2025



#50

4-Methyl-2-Pentanone

Concen: 9.554 ppbv

RT: 5.787 min Scan# 1761

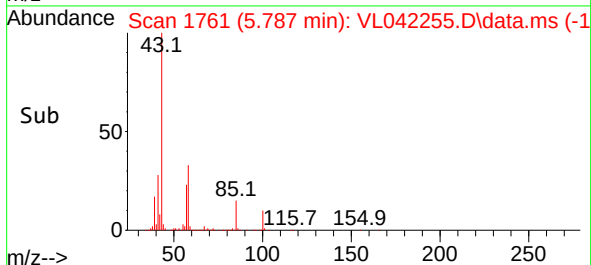
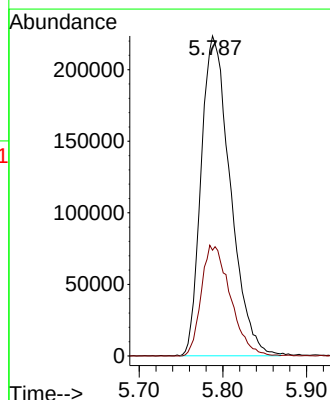
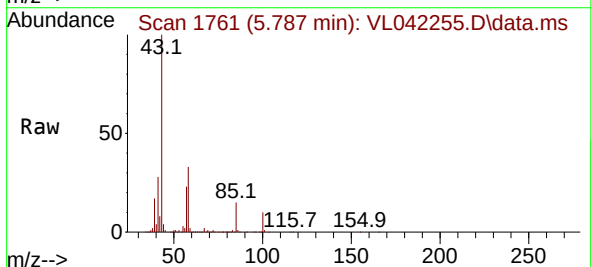
Delta R.T. 0.042 min

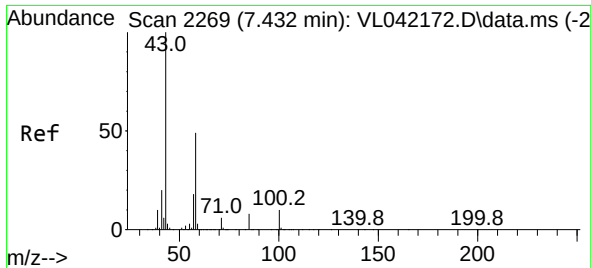
Lab File: VL042255.D

Acq: 08 Apr 2025 10:05

Tgt Ion: 43 Resp: 543140

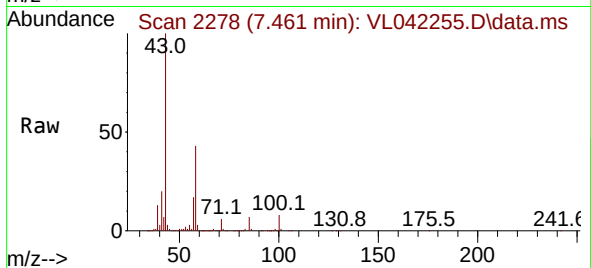
Ion	Ratio	Lower	Upper
43	100		
58	34.5	29.0	43.6





#51
2-Hexanone
Concen: 9.463 ppbv
RT: 7.461 min Scan# 211
Delta R.T. 0.029 min
Lab File: VL042255.D
Acq: 08 Apr 2025 10:05

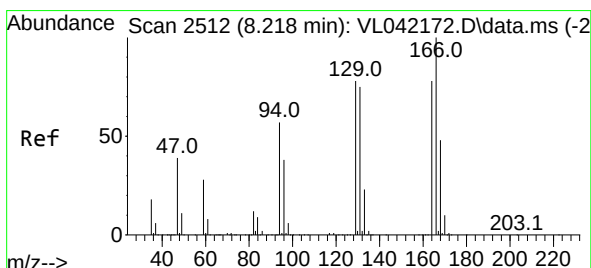
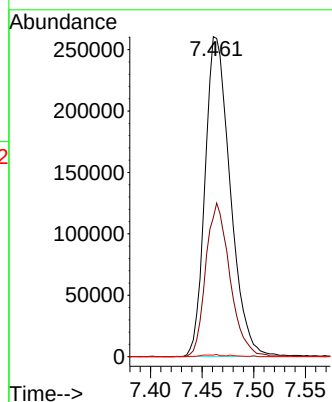
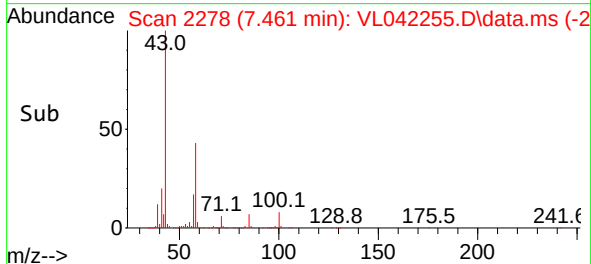
Instrument :
MSVOA_L
ClientSampleId :
VL0408ABS01



Tgt Ion: 43 Resp: 44174
Ion Ratio Lower Upper
43 100
58 46.3 39.7 59.5
98 0.7 0.1 0.1

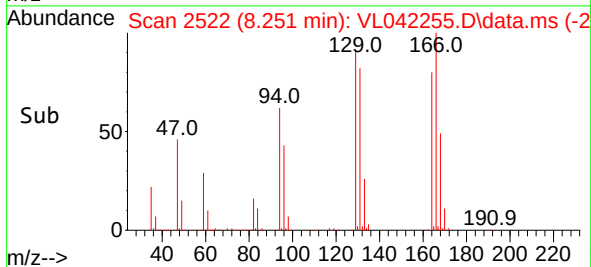
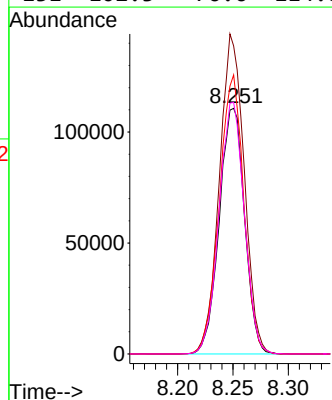
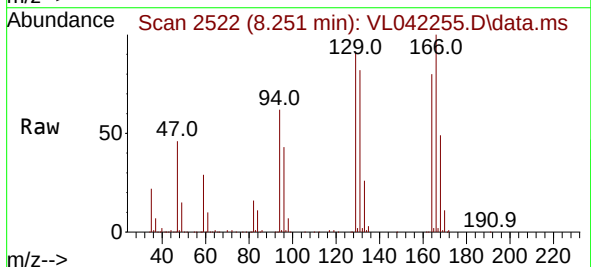
Manual Integrations
APPROVED

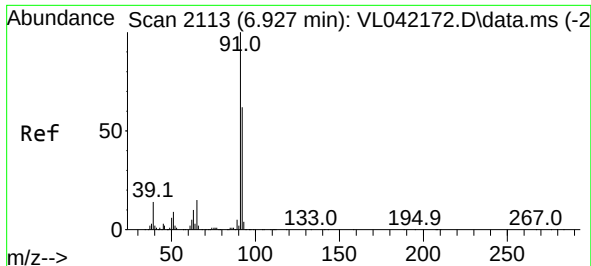
Reviewed By :Semsettin Yesilyurt 04/09/2025
Supervised By :Mahesh Dadoda 04/09/2025



#52
Tetrachloroethene
Concen: 9.028 ppbv
RT: 8.251 min Scan# 2522
Delta R.T. 0.032 min
Lab File: VL042255.D
Acq: 08 Apr 2025 10:05

Tgt Ion:164 Resp: 175587
Ion Ratio Lower Upper
164 100
166 125.3 102.5 153.7
129 113.6 79.8 119.8
131 102.3 76.6 114.8





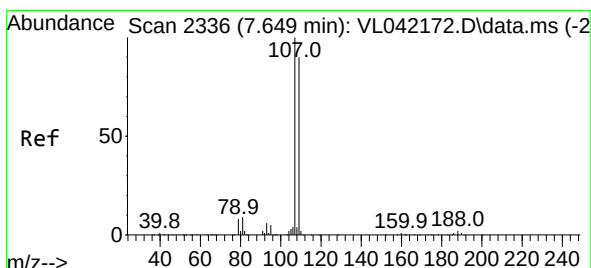
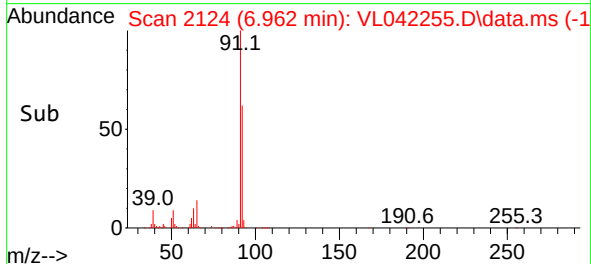
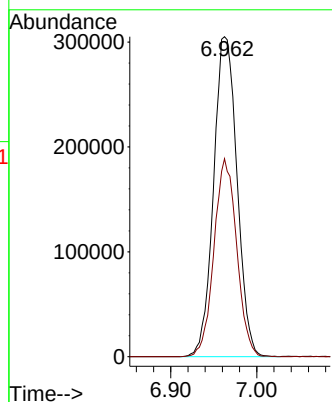
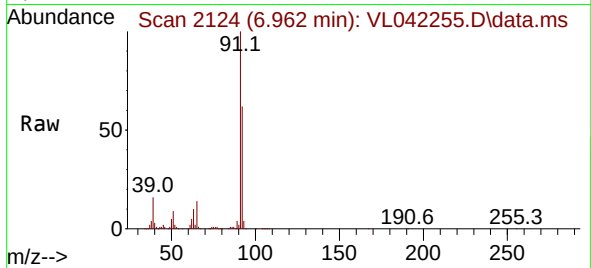
#53
Toluene
Concen: 9.947 ppbv
RT: 6.962 min Scan# 2113
Delta R.T. 0.036 min
Lab File: VL042255.D
Acq: 08 Apr 2025 10:05

Instrument :
MSVOA_L
ClientSampleId :
VL0408ABS01

Tgt Ion: 91 Resp: 57826
Ion Ratio Lower Upper
91 100
92 59.8 48.4 72.6

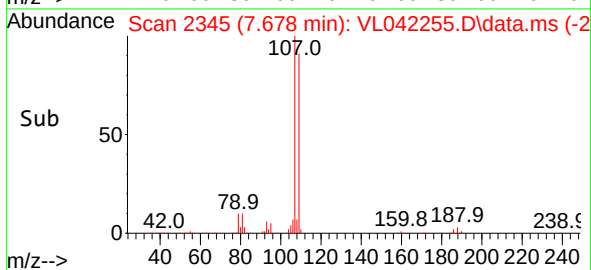
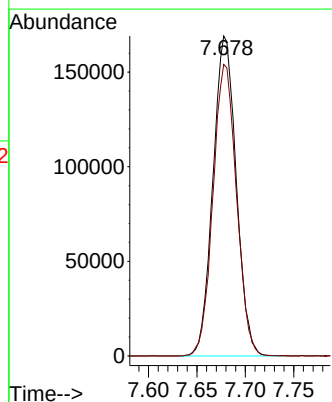
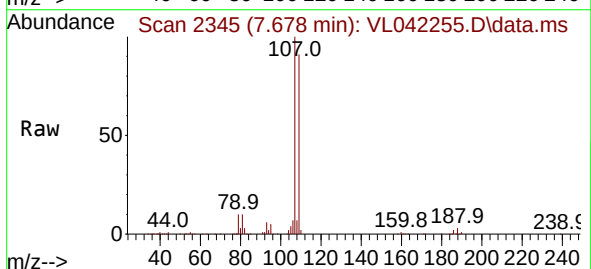
Manual Integrations
APPROVED

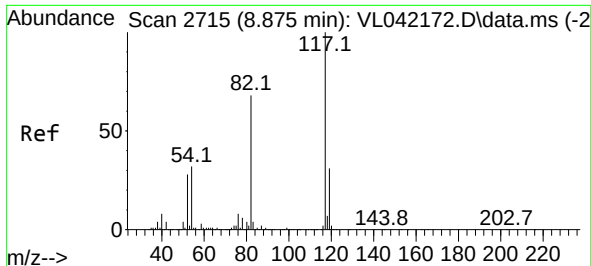
Reviewed By :Semsettin Yesilyurt 04/09/2025
Supervised By :Mahesh Dadoda 04/09/2025



#54
1,2-Dibromoethane
Concen: 10.730 ppbv
RT: 7.678 min Scan# 2345
Delta R.T. 0.029 min
Lab File: VL042255.D
Acq: 08 Apr 2025 10:05

Tgt Ion:107 Resp: 282386
Ion Ratio Lower Upper
107 100
109 91.1 72.2 108.4





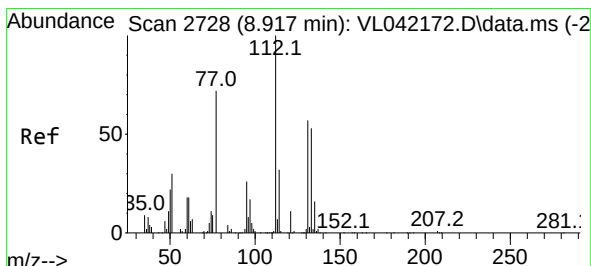
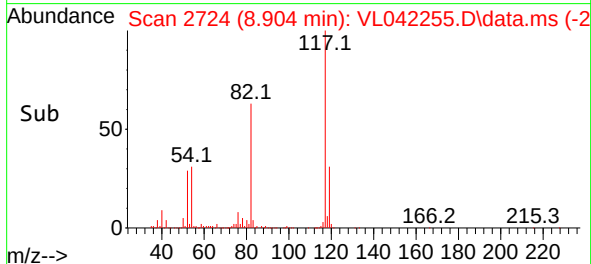
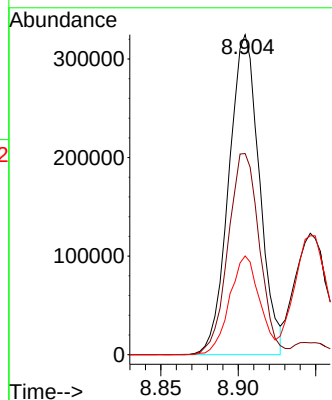
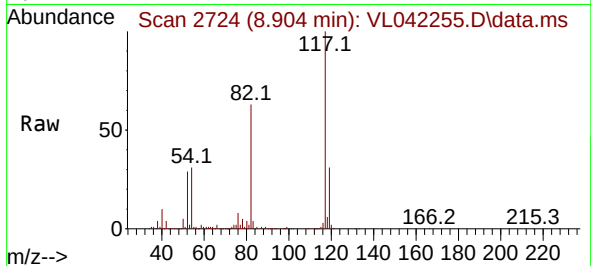
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.904 min Scan# 2715
Delta R.T. 0.029 min
Lab File: VL042255.D
Acq: 08 Apr 2025 10:05

Instrument :
MSVOA_L
ClientSampleId :
VL0408ABS01

Tgt Ion:117 Resp: 447060
Ion Ratio Lower Upper
117 100
82 68.7 55.8 83.6
119 30.4 25.5 38.3

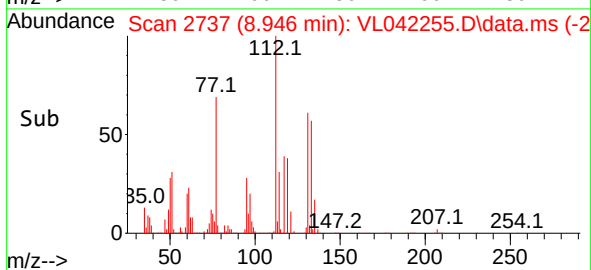
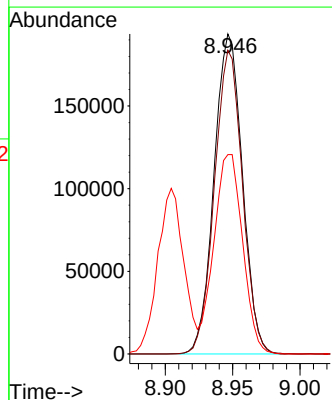
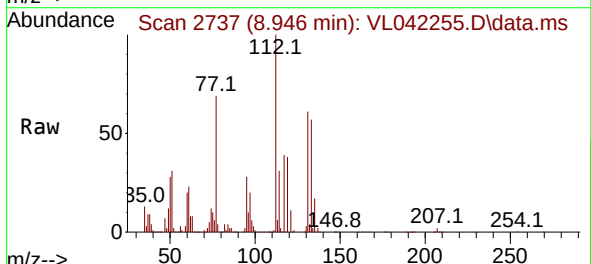
Manual Integrations
APPROVED

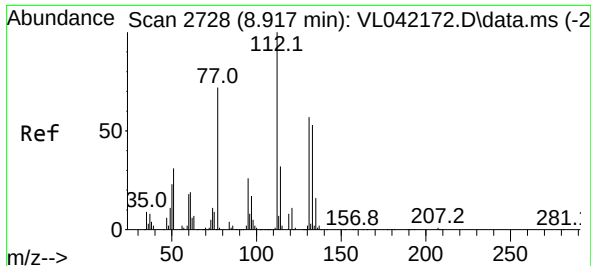
Reviewed By :Semsettin Yesilyurt 04/09/2025
Supervised By :Mahesh Dadoda 04/09/2025



#56
1,1,1,2-Tetrachloroethane
Concen: 11.503 ppbv
RT: 8.946 min Scan# 2737
Delta R.T. 0.029 min
Lab File: VL042255.D
Acq: 08 Apr 2025 10:05

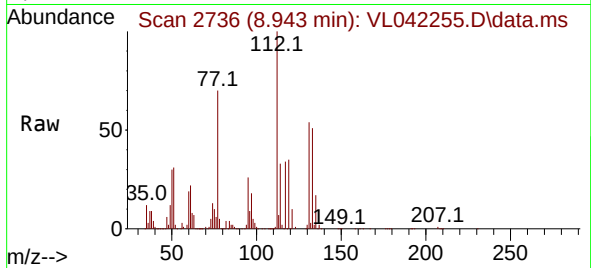
Tgt Ion:131 Resp: 283080
Ion Ratio Lower Upper
131 100
133 93.9 76.6 114.8
119 64.5 49.8 74.6





#57
Chlorobenzene
Concen: 11.360 ppbv
RT: 8.943 min Scan# 211
Delta R.T. 0.026 min
Lab File: VL042255.D
Acq: 08 Apr 2025 10:05

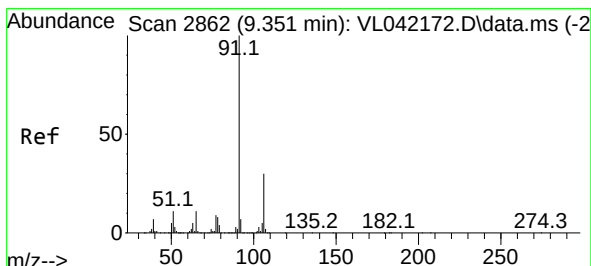
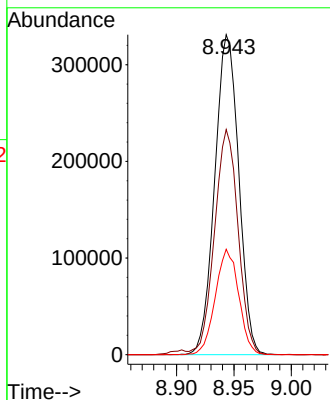
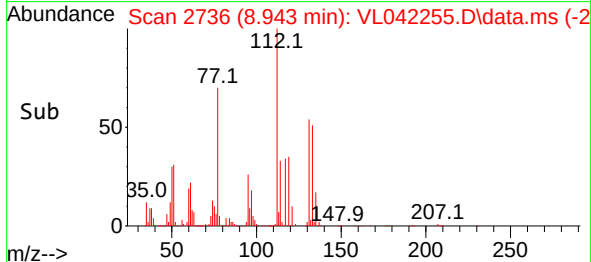
Instrument :
MSVOA_L
ClientSampleId :
VL0408ABS01



Tgt Ion:112 Resp: 481711
Ion Ratio Lower Upper
112 100
77 70.3 58.2 87.2
114 32.9 29.1 35.5

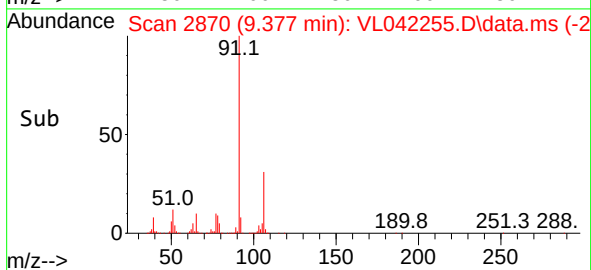
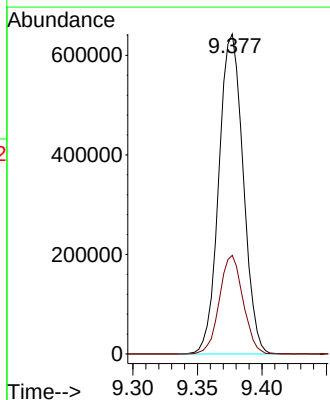
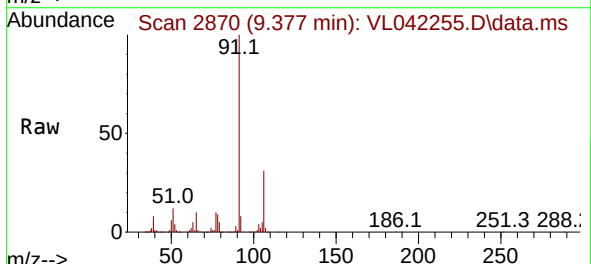
Manual Integrations
APPROVED

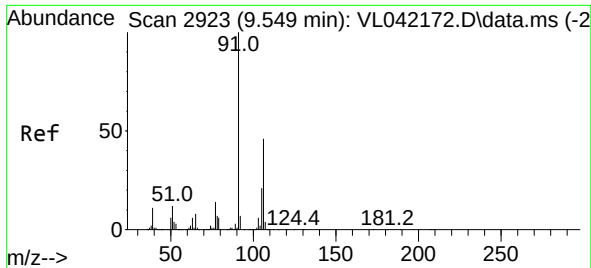
Reviewed By :Semsettin Yesilyurt 04/09/2025
Supervised By :Mahesh Dadoda 04/09/2025



#58
Ethyl Benzene
Concen: 10.593 ppbv
RT: 9.377 min Scan# 2870
Delta R.T. 0.026 min
Lab File: VL042255.D
Acq: 08 Apr 2025 10:05

Tgt Ion: 91 Resp: 841166
Ion Ratio Lower Upper
91 100
106 30.8 24.2 36.2





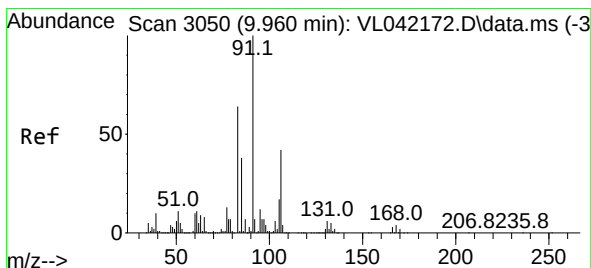
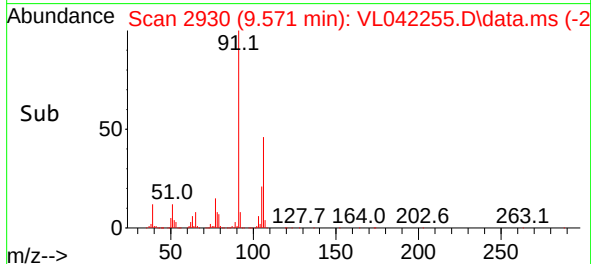
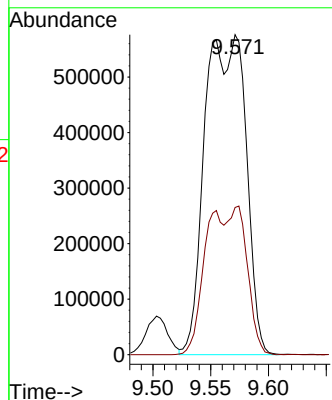
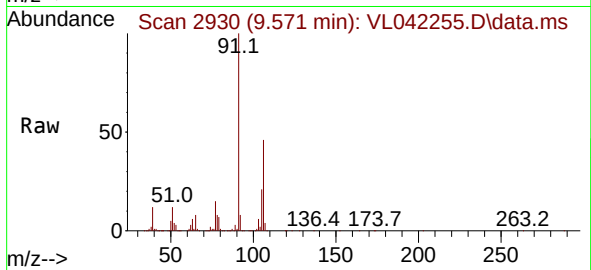
#59
m/p-Xylene
Concen: 22.486 ppbv m
RT: 9.571 min Scan# 2923
Delta R.T. 0.023 min
Lab File: VL042255.D
Acq: 08 Apr 2025 10:05

Instrument :
MSVOA_L
ClientSampleId :
VL0408ABS01

Tgt Ion: 91 Resp: 142583
Ion Ratio Lower Upper
91 100
106 46.1 36.4 54.6

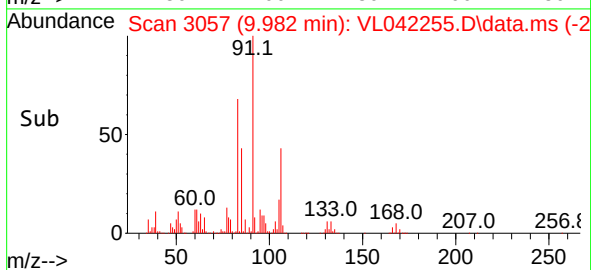
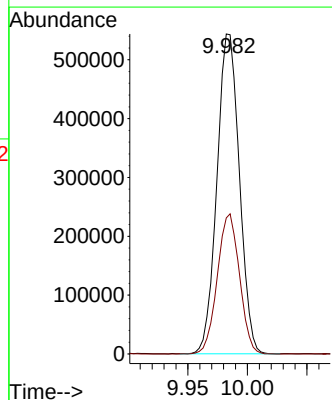
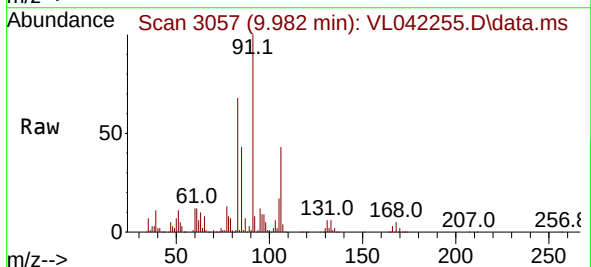
Manual Integrations
APPROVED

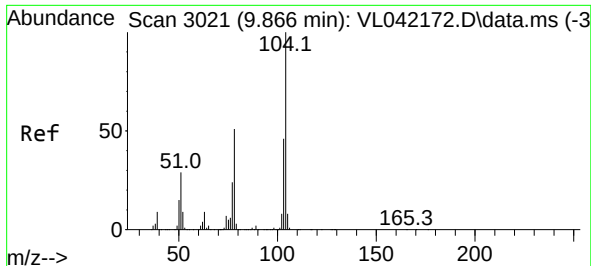
Reviewed By :Semsettin Yesilyurt 04/09/2025
Supervised By :Mahesh Dadoda 04/09/2025



#60
o-Xylene
Concen: 11.194 ppbv
RT: 9.982 min Scan# 3057
Delta R.T. 0.023 min
Lab File: VL042255.D
Acq: 08 Apr 2025 10:05

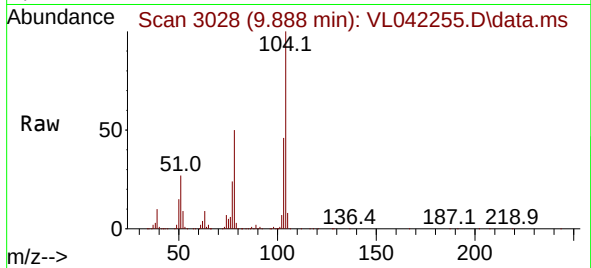
Tgt Ion: 91 Resp: 711568
Ion Ratio Lower Upper
91 100
106 43.2 20.8 62.5





#61
Styrene
Concen: 10.149 ppbv
RT: 9.888 min Scan# 3021
Delta R.T. 0.023 min
Lab File: VL042255.D
Acq: 08 Apr 2025 10:05

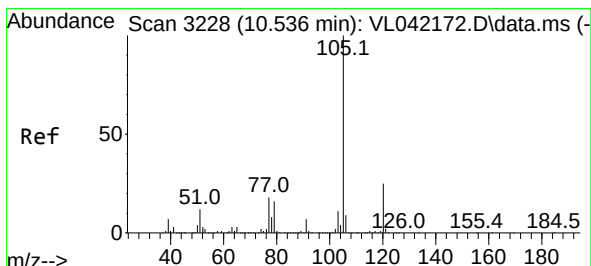
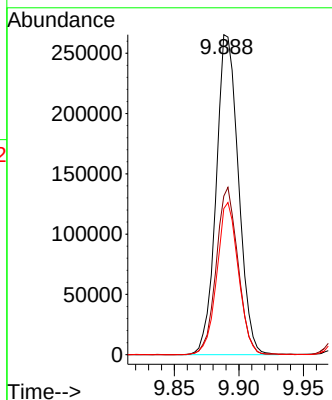
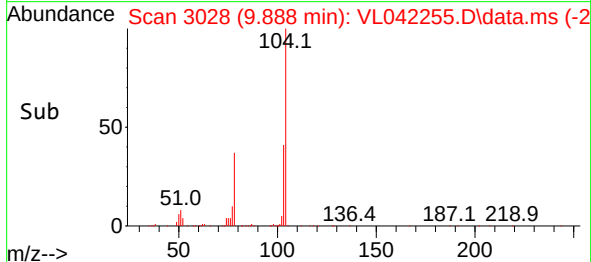
Instrument :
MSVOA_L
ClientSampleId :
VL0408ABS01



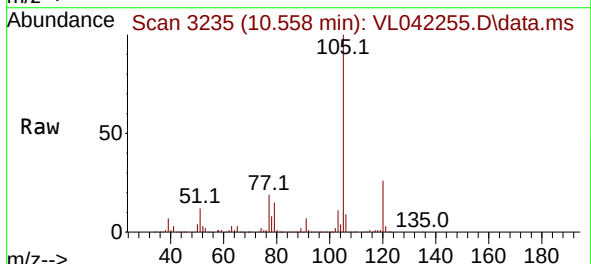
Tgt Ion:104 Resp: 31915
Ion Ratio Lower Upper
104 100
78 51.1 41.8 62.6
103 46.2 37.0 55.4

Manual Integrations
APPROVED

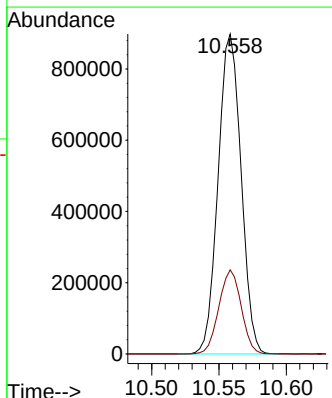
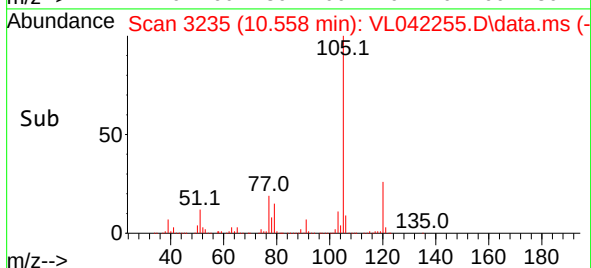
Reviewed By :Semsettin Yesilyurt 04/09/2025
Supervised By :Mahesh Dadoda 04/09/2025

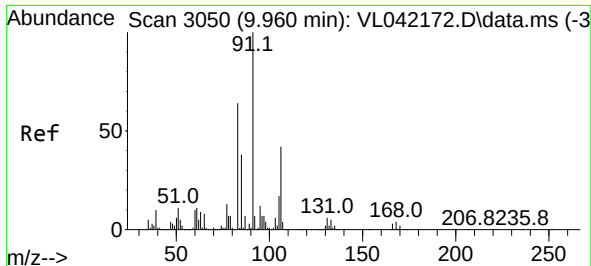


#62
Isopropylbenzene
Concen: 11.193 ppbv
RT: 10.558 min Scan# 3235
Delta R.T. 0.023 min
Lab File: VL042255.D
Acq: 08 Apr 2025 10:05



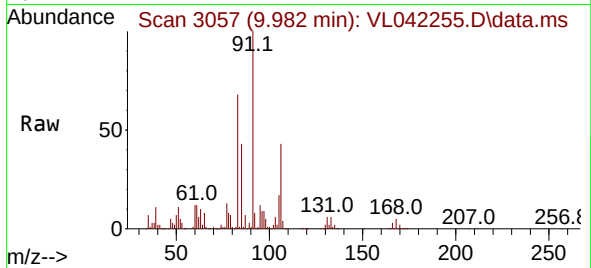
Tgt Ion:105 Resp: 1063992
Ion Ratio Lower Upper
105 100
120 25.5 19.9 29.9





#63
1,1,2,2-Tetrachloroethane
Concen: 12.139 ppbv
RT: 9.982 min Scan# 3050
Delta R.T. 0.023 min
Lab File: VL042255.D
Acq: 08 Apr 2025 10:05

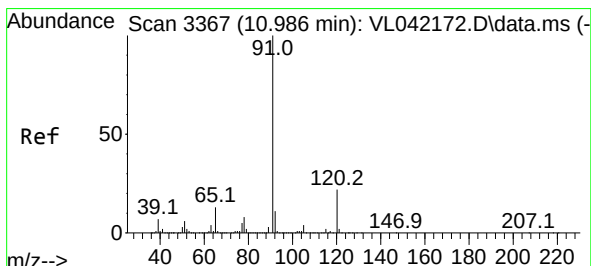
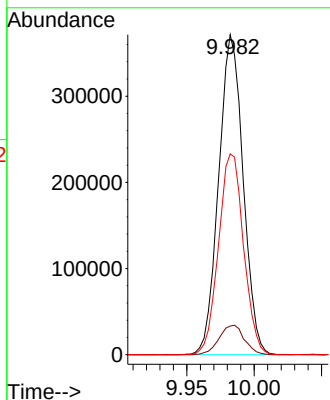
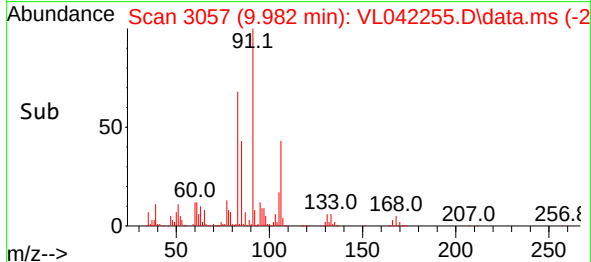
Instrument :
MSVOA_1
ClientSampleId :
VL0408ABS01



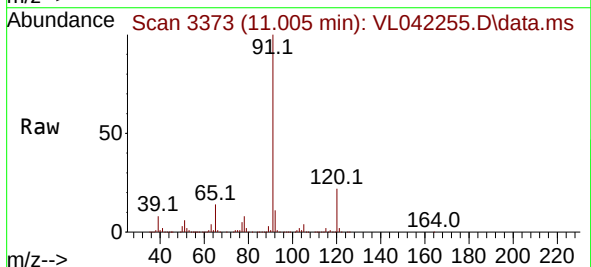
Tgt Ion: 83 Resp: 46885
Ion Ratio Lower Upper
83 100
131 9.5 4.8 14.4
85 64.2 32.5 97.5

Manual Integrations
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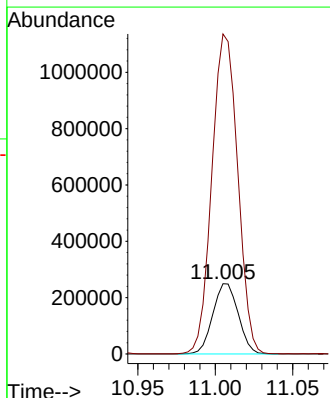
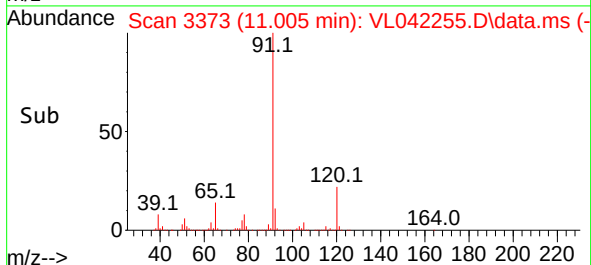
Reviewed By :Semsettin Yesilyurt 04/09/2025
Supervised By :Mahesh Dadoda 04/09/2025

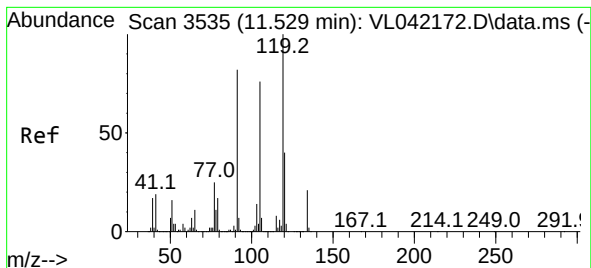


#64
n-propylbenzene
Concen: 11.638 ppbv
RT: 11.005 min Scan# 3373
Delta R.T. 0.019 min
Lab File: VL042255.D
Acq: 08 Apr 2025 10:05



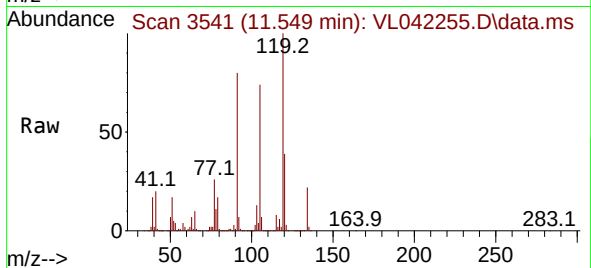
Tgt Ion:120 Resp: 284790
Ion Ratio Lower Upper
120 100
91 462.1 376.9 565.3





#65
tert-Butylbenzene
Concen: 11.112 ppbv
RT: 11.549 min Scan# 3541
Delta R.T. 0.019 min
Lab File: VL042255.D
Acq: 08 Apr 2025 10:05

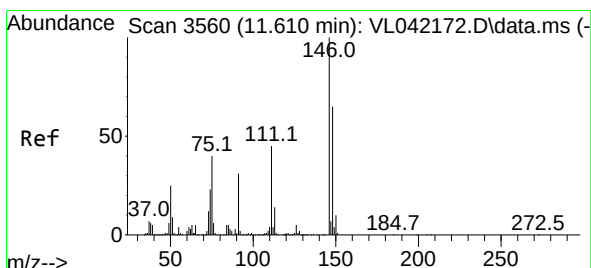
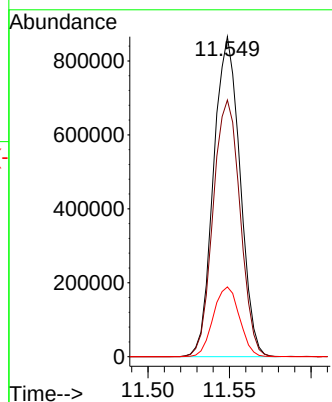
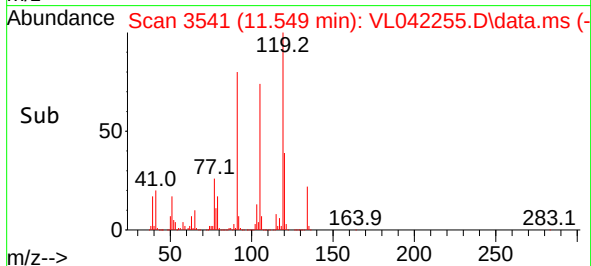
Instrument :
MSVOA_L
ClientSampleId :
VL0408ABS01



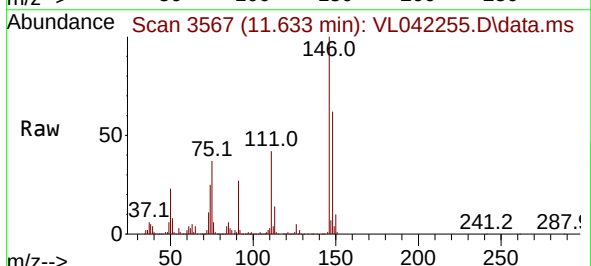
Tgt Ion: 119 Resp: 976872
Ion Ratio Lower Upper
119 100
91 81.9 66.0 99.0
134 21.5 16.7 25.1

Manual Integrations
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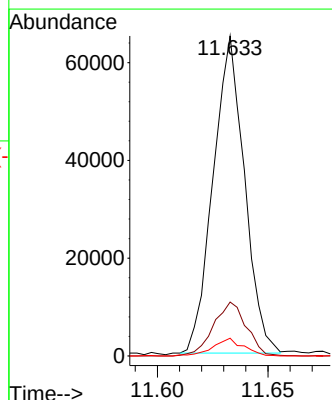
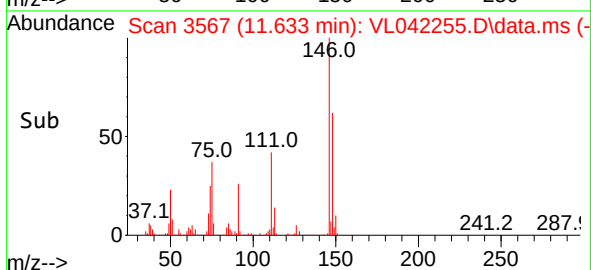
Reviewed By :Semsettin Yesilyurt 04/09/2025
Supervised By :Mahesh Dadoda 04/09/2025

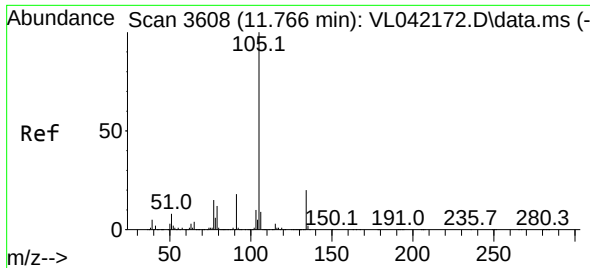


#66
Benzyl Chloride
Concen: 6.860 ppbv
RT: 11.633 min Scan# 3567
Delta R.T. 0.023 min
Lab File: VL042255.D
Acq: 08 Apr 2025 10:05



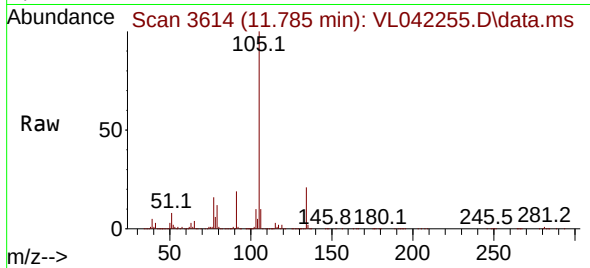
Tgt Ion: 91 Resp: 63988
Ion Ratio Lower Upper
91 100
126 17.9 13.8 20.6
128 5.5 4.5 6.7





#67
 sec-Butylbenzene
 Concen: 11.275 ppbv
 RT: 11.785 min Scan# 30
 Delta R.T. 0.019 min
 Lab File: VL042255.D
 Acq: 08 Apr 2025 10:05

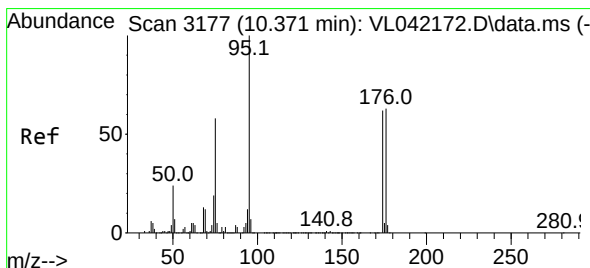
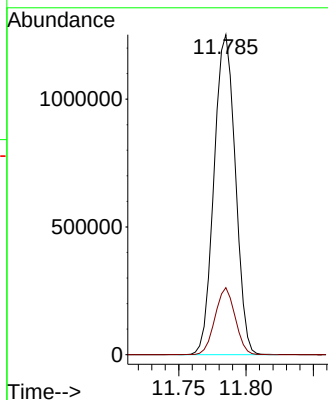
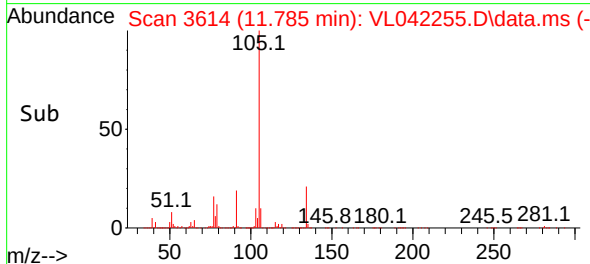
Instrument :
 MSVOA_L
 ClientSampleId :
 VL0408ABS01



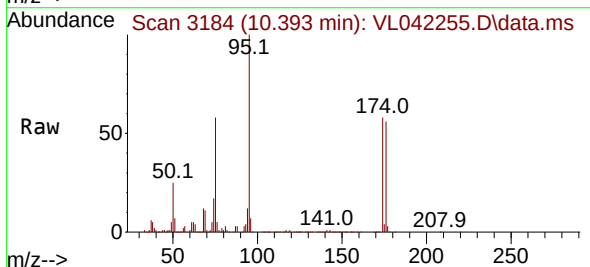
Tgt Ion: 105 Resp: 1377720
 Ion Ratio Lower Upper
 105 100
 134 19.8 15.5 23.3

Manual Integrations
 APPROVED

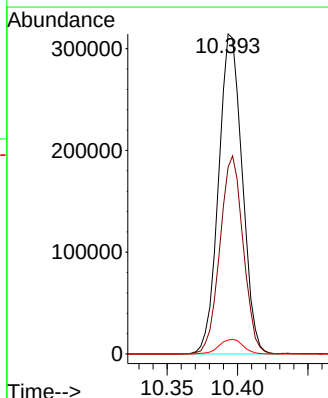
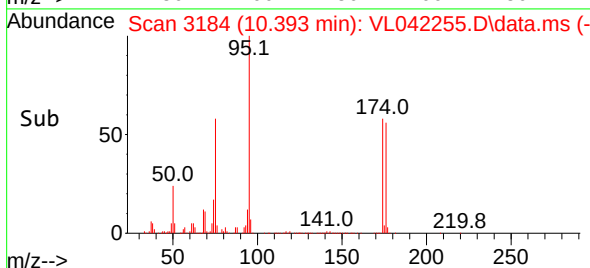
Reviewed By :Semsettin Yesilyurt 04/09/2025
 Supervised By :Mahesh Dadoda 04/09/2025

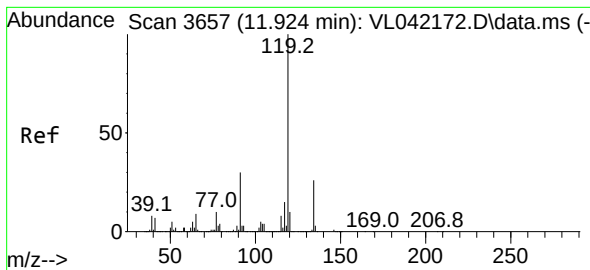


#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.008 ppbv
 RT: 10.393 min Scan# 3184
 Delta R.T. 0.023 min
 Lab File: VL042255.D
 Acq: 08 Apr 2025 10:05



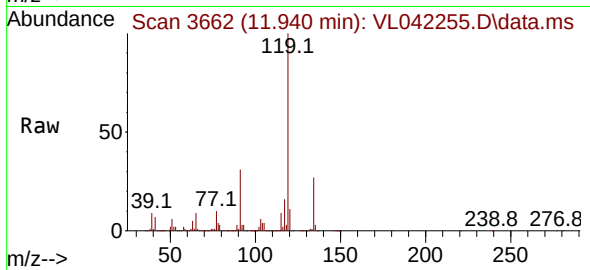
Tgt Ion: 95 Resp: 367418
 Ion Ratio Lower Upper
 95 100
 174 61.1 50.6 76.0
 175 4.7 3.8 5.6





#69
p-Isopropyltoluene
Concen: 11.104 ppbv
RT: 11.940 min Scan# 3662
Delta R.T. 0.016 min
Lab File: VL042255.D
Acq: 08 Apr 2025 10:05

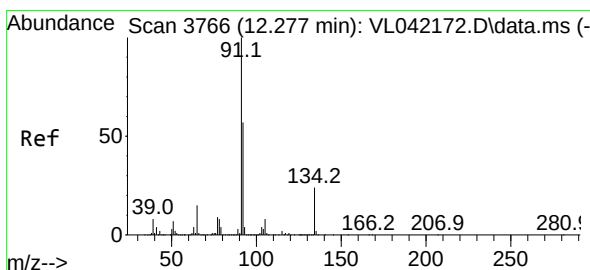
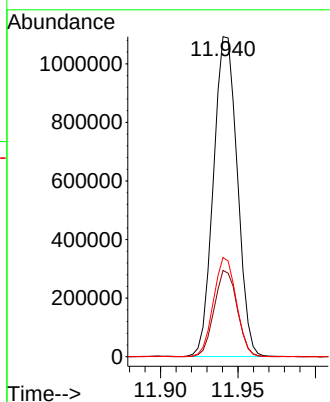
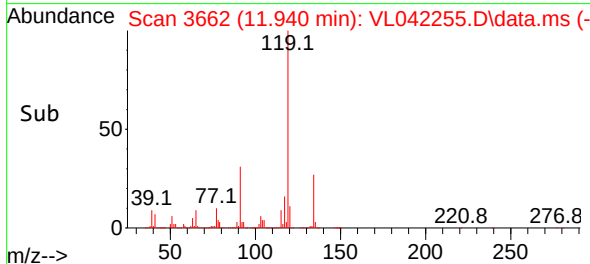
Instrument :
MSVOA_L
ClientSampleId :
VL0408ABS01



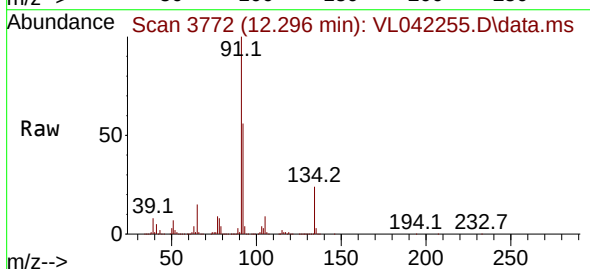
Tgt Ion: 119 Resp: 1168409
Ion Ratio Lower Upper
119 100
134 26.2 20.4 30.6
91 29.9 23.7 35.5

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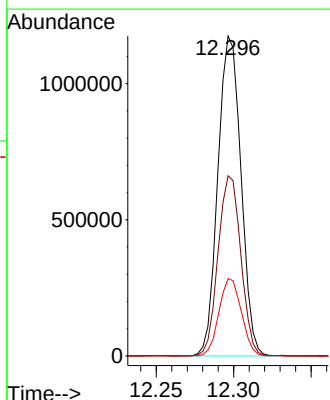
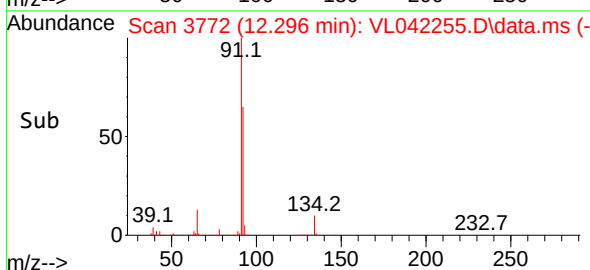
Reviewed By :Semsettin Yesilyurt 04/09/2025
Supervised By :Mahesh Dadoda 04/09/2025

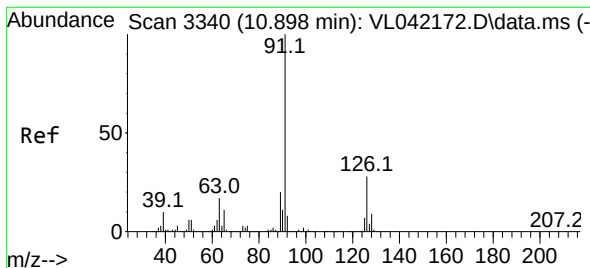


#70
n-Butylbenzene
Concen: 11.312 ppbv
RT: 12.296 min Scan# 3772
Delta R.T. 0.019 min
Lab File: VL042255.D
Acq: 08 Apr 2025 10:05



Tgt Ion: 91 Resp: 1217247
Ion Ratio Lower Upper
91 100
92 55.7 44.9 67.3
134 23.6 19.2 28.8





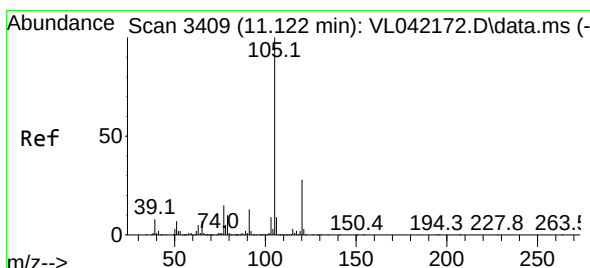
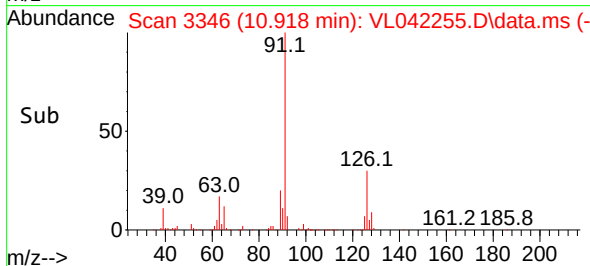
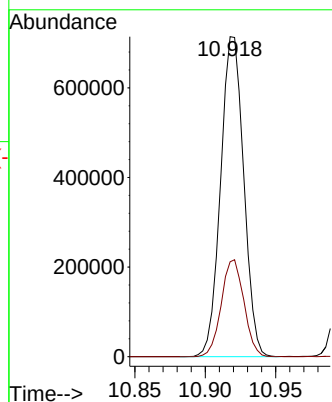
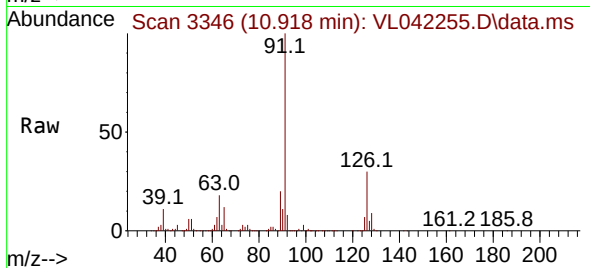
#71
2-Chlorotoluene
Concen: 11.078 ppbv
RT: 10.918 min Scan# 31
Delta R.T. 0.019 min
Lab File: VL042255.D
Acq: 08 Apr 2025 10:05

Instrument :
MSVOA_L
ClientSampleId :
VL0408ABS01

Tgt Ion: 91 Resp: 81733
Ion Ratio Lower Upper
91 100
126 29.6 11.6 46.4

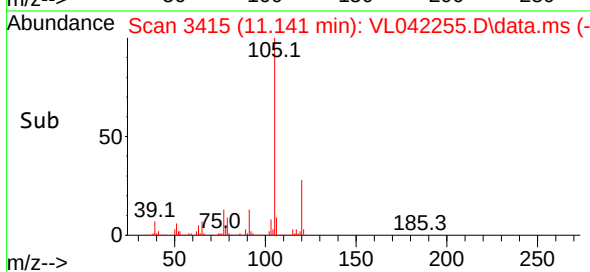
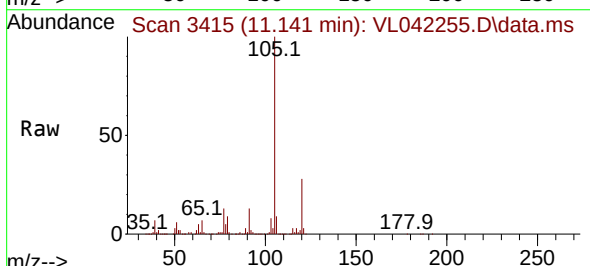
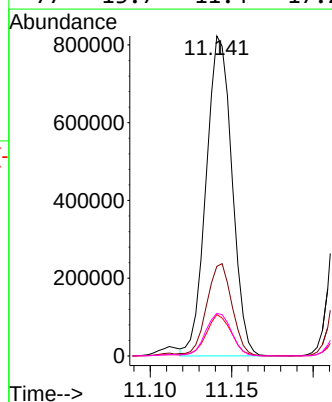
Manual Integrations
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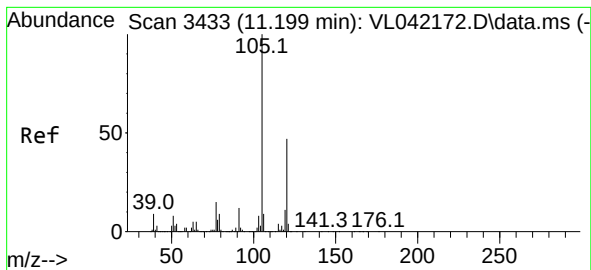
Reviewed By :Semsettin Yesilyurt 04/09/2025
Supervised By :Mahesh Dadoda 04/09/2025



#72
4-Ethyltoluene
Concen: 11.460 ppbv
RT: 11.141 min Scan# 3415
Delta R.T. 0.019 min
Lab File: VL042255.D
Acq: 08 Apr 2025 10:05

Tgt Ion:105 Resp: 906994
Ion Ratio Lower Upper
105 100
120 29.0 23.4 35.0
91 12.8 10.3 15.5
77 13.7 11.4 17.2





#73

1,3,5-Trimethylbenzene

Concen: 11.187 ppbv

RT: 11.222 min Scan# 3433

Delta R.T. 0.023 min

Lab File: VL042255.D

Acq: 08 Apr 2025 10:05

Instrument :

MSVOA_L

ClientSampleId :

VL0408ABS01

Tgt Ion:105 Resp: 773328

Ion Ratio Lower Upper

105 100

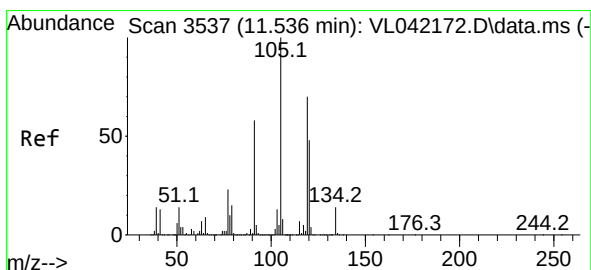
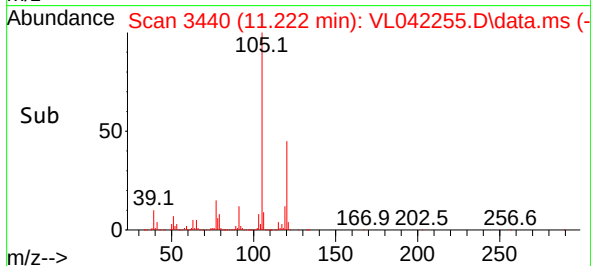
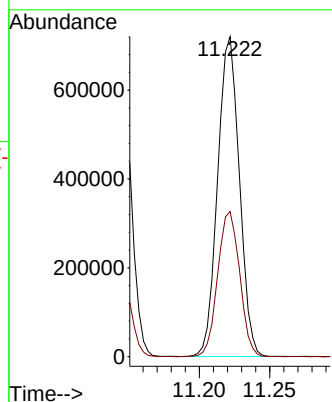
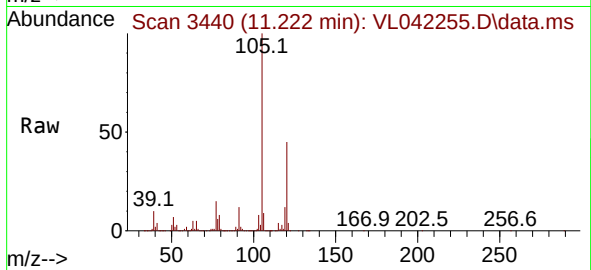
120 45.4 37.4 56.0

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 04/09/2025

Supervised By :Mahesh Dadoda 04/09/2025



#74

1,2,4-Trimethylbenzene

Concen: 10.827 ppbv

RT: 11.555 min Scan# 3543

Delta R.T. 0.019 min

Lab File: VL042255.D

Acq: 08 Apr 2025 10:05

Tgt Ion:105 Resp: 862179

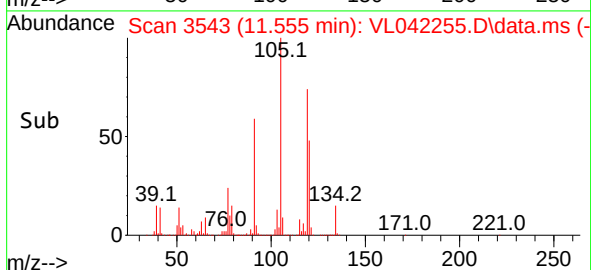
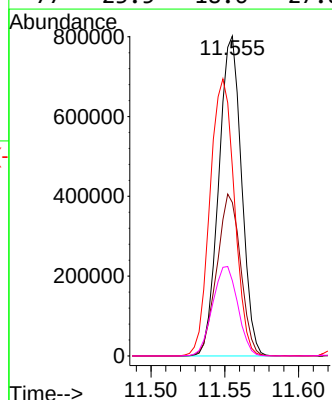
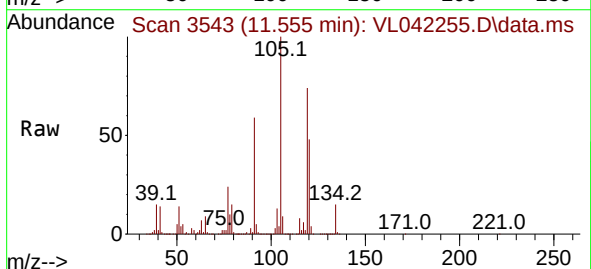
Ion Ratio Lower Upper

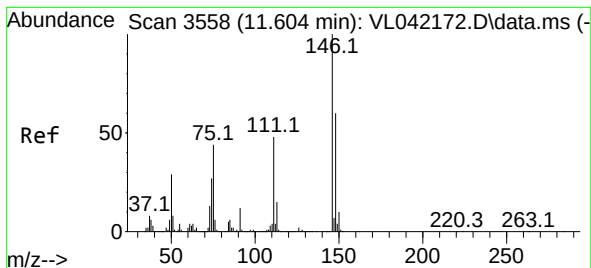
105 100

120 47.9 38.6 58.0

91 59.0 46.2 69.2

77 23.5 18.6 27.8





#75

1,3-Dichlorobenzene

Concen: 11.739 ppbv

RT: 11.623 min Scan# 3558

Delta R.T. 0.019 min

Lab File: VL042255.D

Acq: 08 Apr 2025 10:05

Instrument :

MSVOA_L

ClientSampleId :

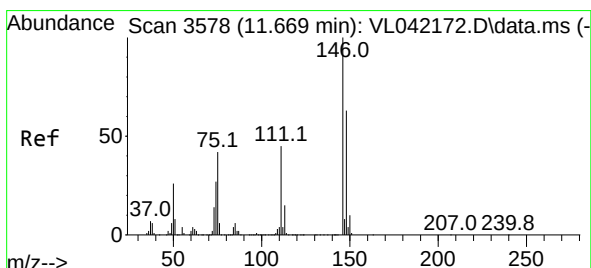
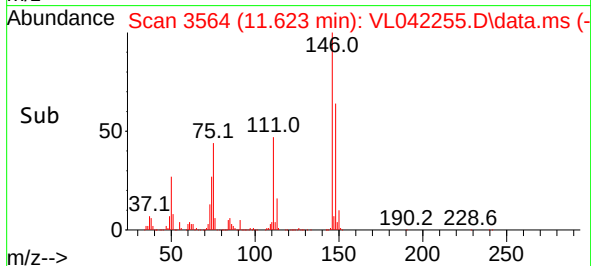
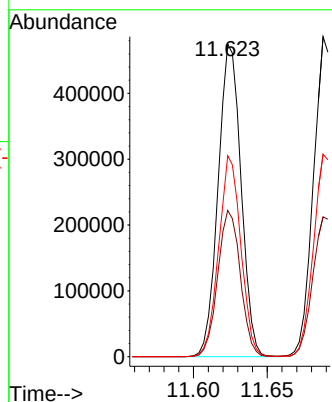
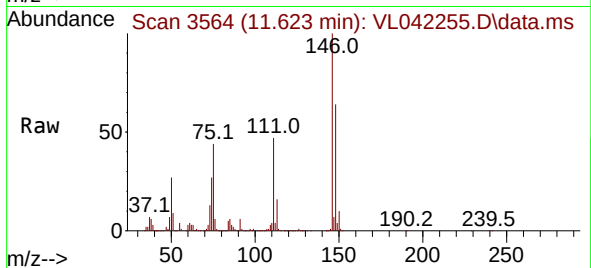
VL0408ABS01

Tgt Ion:	146	Resp:	51273
Ion Ratio	Lower	Upper	
146	100		
111	46.2	23.8	71.2
148	62.2	31.9	95.9

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 04/09/2025
Supervised By :Mahesh Dadoda 04/09/2025



#76

1,4-Dichlorobenzene

Concen: 11.619 ppbv

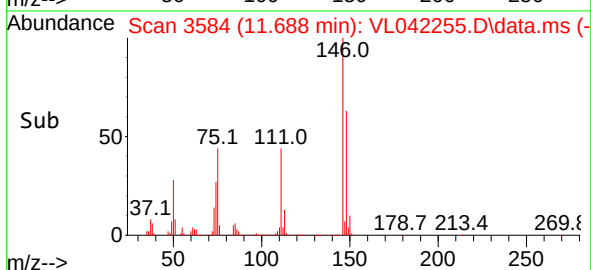
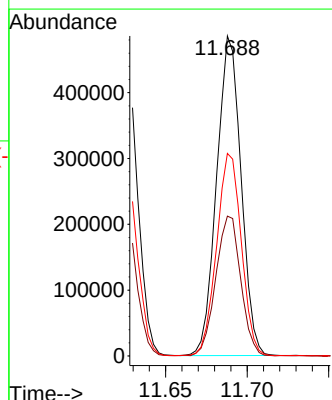
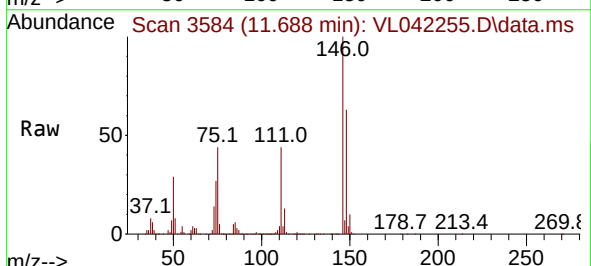
RT: 11.688 min Scan# 3584

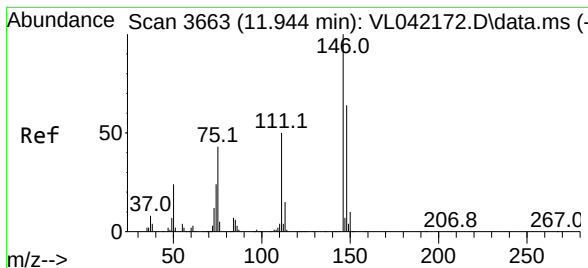
Delta R.T. 0.019 min

Lab File: VL042255.D

Acq: 08 Apr 2025 10:05

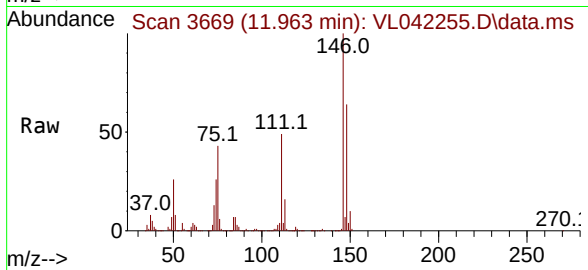
Tgt Ion:	146	Resp:	505049
Ion Ratio	Lower	Upper	
146	100		
111	44.9	23.0	69.0
148	64.4	31.9	95.7





#77
1,2-Dichlorobenzene
Concen: 11.883 ppbv
RT: 11.963 min Scan# 3669
Delta R.T. 0.019 min
Lab File: VL042255.D
Acq: 08 Apr 2025 10:05

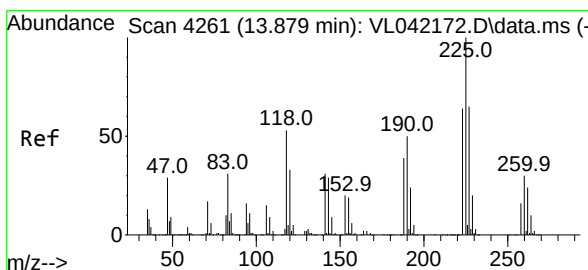
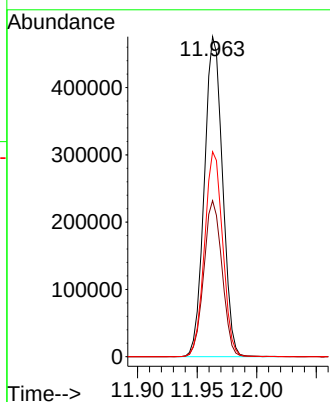
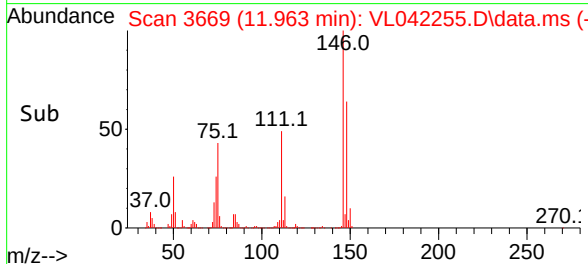
Instrument :
MSVOA_L
ClientSampleId :
VL0408ABS01



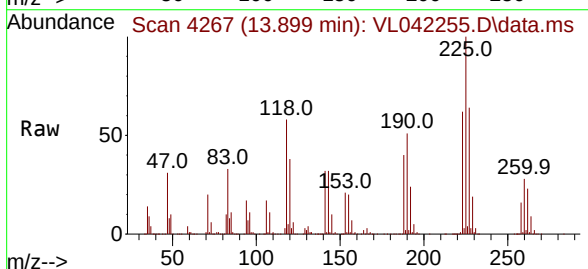
Tgt Ion:146 Resp: 50532
Ion Ratio Lower Upper
146 100
111 48.9 24.8 74.3
148 63.8 31.6 94.8

Manual Integrations
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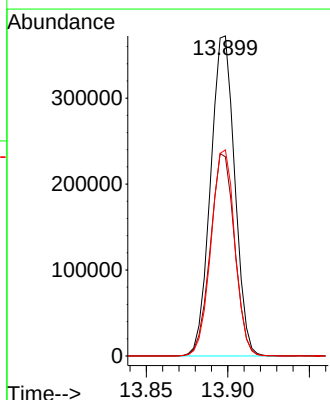
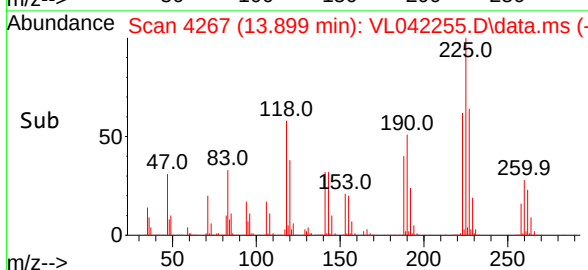
Reviewed By :Semsettin Yesilyurt 04/09/2025
Supervised By :Mahesh Dadoda 04/09/2025

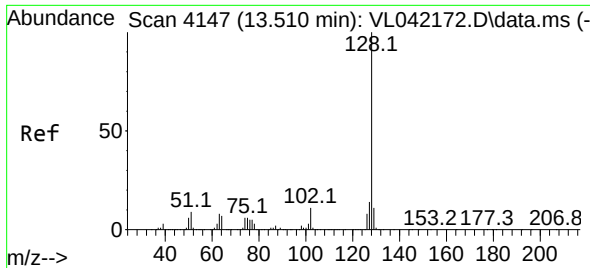


#78
Hexachloro-1,3-Butadiene
Concen: 8.845 ppbv
RT: 13.899 min Scan# 4267
Delta R.T. 0.019 min
Lab File: VL042255.D
Acq: 08 Apr 2025 10:05



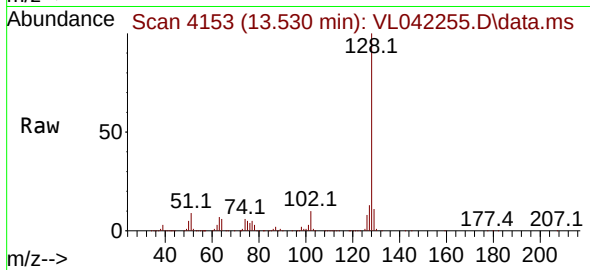
Tgt Ion:225 Resp: 382876
Ion Ratio Lower Upper
225 100
223 63.4 50.6 76.0
227 63.4 51.2 76.8





#79
Naphthalene
Concen: 10.055 ppbv
RT: 13.530 min Scan# 4147
Delta R.T. 0.019 min
Lab File: VL042255.D
Acq: 08 Apr 2025 10:05

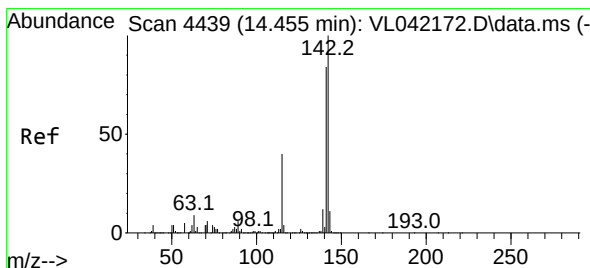
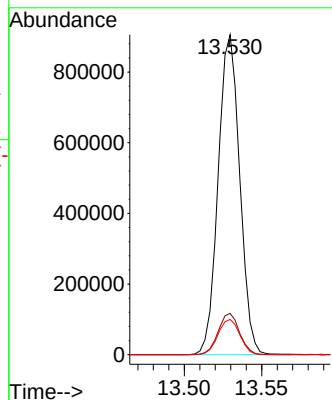
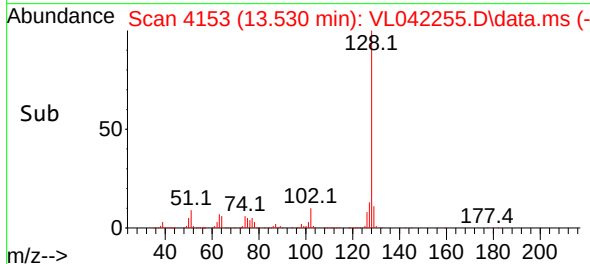
Instrument :
MSVOA_L
ClientSampleId :
VL0408ABS01



Tgt Ion:128 Resp: 875824
Ion Ratio Lower Upper
128 100
127 12.9 10.8 16.2
129 11.0 9.0 13.4

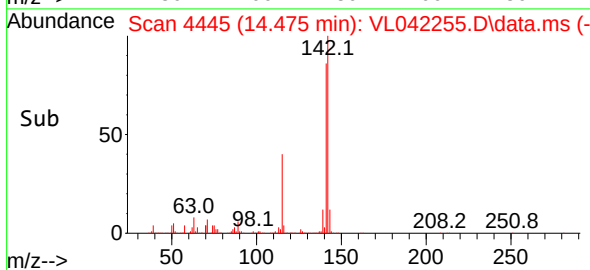
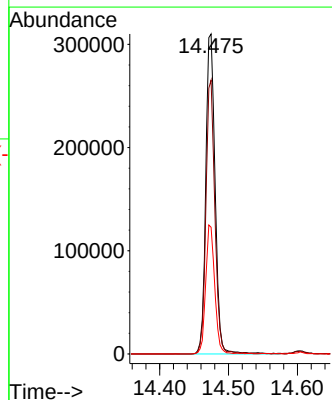
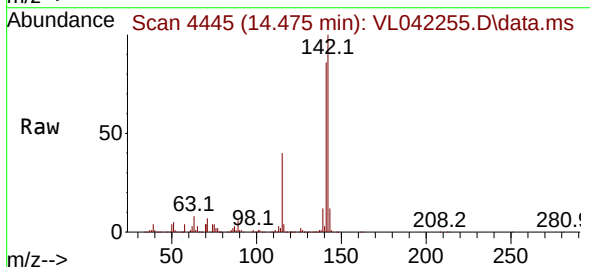
Manual Integrations
APPROVED

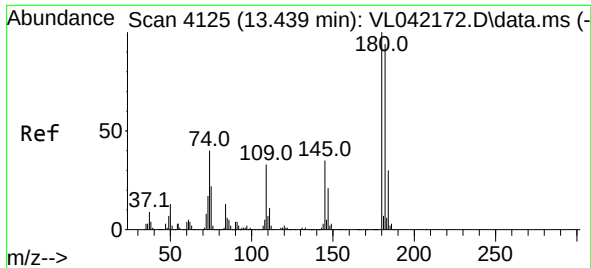
Reviewed By :Semsettin Yesilyurt 04/09/2025
Supervised By :Mahesh Dadoda 04/09/2025



#80
Naphthalene,2-methyl-
Concen: 6.815 ppbv
RT: 14.475 min Scan# 4445
Delta R.T. 0.019 min
Lab File: VL042255.D
Acq: 08 Apr 2025 10:05

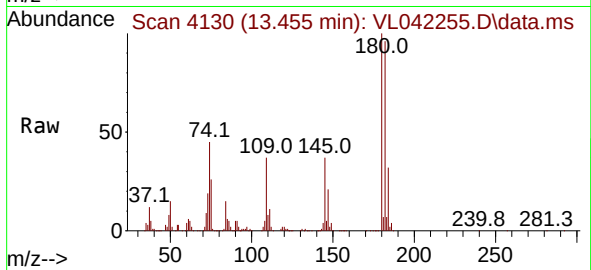
Tgt Ion:142 Resp: 291105
Ion Ratio Lower Upper
142 100
141 82.7 66.3 99.5
115 39.6 31.6 47.4





#81
 1,2,4-Trichlorobenzene
 Concen: 9.672 ppbv
 RT: 13.455 min Scan# 41
 Delta R.T. 0.016 min
 Lab File: VL042255.D
 Acq: 08 Apr 2025 10:05

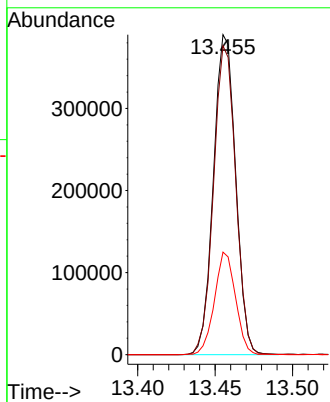
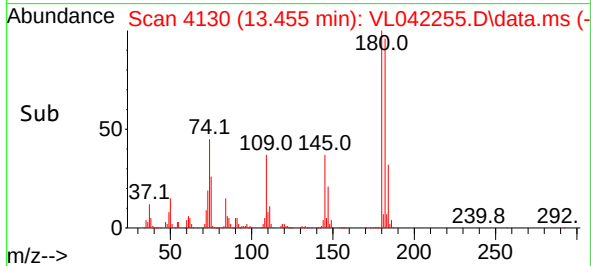
Instrument :
 MSVOA_L
 ClientSampleId :
 VL0408ABS01



Tgt Ion:180 Resp: 388609
 Ion Ratio Lower Upper
 180 100
 182 96.5 75.1 112.7
 184 30.5 24.4 36.6

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 04/09/2025
 Supervised By :Mahesh Dadoda 04/09/2025



Manual Integration Report

Sequence:	VL032725	Instrument	MSVOA_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICCC010	VL042172.D	m/p-Xylene	SAM	3/31/2025 11:24:55 AM	MMDadoda	4/3/2025 8:05:09 AM	Peak Integrated by Software
VSTDICCC002	VL042173.D	1,4-Dioxane	SAM	3/31/2025 11:25:00 AM	MMDadoda	4/3/2025 8:05:13 AM	Peak Integrated by Software
VSTDICCC002	VL042173.D	Ethanol	SAM	3/31/2025 11:25:00 AM	MMDadoda	4/3/2025 8:05:13 AM	Peak Integrated by Software
VSTDICCC002	VL042173.D	m/p-Xylene	SAM	3/31/2025 11:25:00 AM	MMDadoda	4/3/2025 8:05:13 AM	Peak Integrated by Software
VSTDICCC001	VL042174.D	1,4-Dioxane	SAM	3/31/2025 11:26:28 AM	MMDadoda	4/3/2025 8:05:22 AM	Peak Integrated by Software
VSTDICCC001	VL042174.D	4-Methyl-2-Pentanone	SAM	3/31/2025 11:26:28 AM	MMDadoda	4/3/2025 8:05:22 AM	Peak Integrated by Software
VSTDICCC001	VL042174.D	Ethanol	SAM	3/31/2025 11:26:28 AM	MMDadoda	4/3/2025 8:05:22 AM	Peak Integrated by Software
VSTDICCC001	VL042174.D	m/p-Xylene	SAM	3/31/2025 11:26:28 AM	MMDadoda	4/3/2025 8:05:22 AM	Peak Integrated by Software
VSTDICCC001	VL042174.D	Methyl Methacrylate	SAM	3/31/2025 11:26:28 AM	MMDadoda	4/3/2025 8:05:22 AM	Peak Integrated by Software
VSTDICCC001	VL042174.D	Propene	SAM	3/31/2025 11:26:28 AM	MMDadoda	4/3/2025 8:05:22 AM	Peak Integrated by Software
VSTDICCC001	VL042174.D	t-1,3-Dichloropropene	SAM	3/31/2025 11:26:28 AM	MMDadoda	4/3/2025 8:05:22 AM	Peak Integrated by Software
VSTDICCC001	VL042174.D	trans-1,2-Dichloroethene	SAM	3/31/2025 11:26:28 AM	MMDadoda	4/3/2025 8:05:22 AM	Peak Integrated by Software
VSTDICCC001	VL042174.D	Vinyl Acetate	SAM	3/31/2025 11:26:28 AM	MMDadoda	4/3/2025 8:05:22 AM	Peak Integrated by Software

Manual Integration Report

Sequence:

VL032725

Instrument

MSVOA_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC0.5	VL042175.D	1,1,2-Trichloroethane	SAM	3/31/2025 11:26:33 AM	MMDadoda	4/3/2025 8:05:37 AM	Peak Integrated by Software
VSTDICC0.5	VL042175.D	1,4-Dioxane	SAM	3/31/2025 11:26:33 AM	MMDadoda	4/3/2025 8:05:37 AM	Peak Integrated by Software
VSTDICC0.5	VL042175.D	cis-1,3-Dichloropropene	SAM	3/31/2025 11:26:33 AM	MMDadoda	4/3/2025 8:05:37 AM	Peak Integrated by Software
VSTDICC0.5	VL042175.D	Cyclohexane	SAM	3/31/2025 11:26:33 AM	MMDadoda	4/3/2025 8:05:37 AM	Peak Integrated by Software
VSTDICC0.5	VL042175.D	m/p-Xylene	SAM	3/31/2025 11:26:33 AM	MMDadoda	4/3/2025 8:05:37 AM	Peak Integrated by Software
VSTDICC0.5	VL042175.D	Methyl Methacrylate	SAM	3/31/2025 11:26:33 AM	MMDadoda	4/3/2025 8:05:37 AM	Peak Integrated by Software
VSTDICC0.5	VL042175.D	Propene	SAM	3/31/2025 11:26:33 AM	MMDadoda	4/3/2025 8:05:37 AM	Peak Integrated by Software
VSTDICC0.5	VL042175.D	Tetrahydrofuran	SAM	3/31/2025 11:26:33 AM	MMDadoda	4/3/2025 8:05:37 AM	Peak Integrated by Software
VSTDICC0.5	VL042175.D	Trichloroethene	SAM	3/31/2025 11:26:33 AM	MMDadoda	4/3/2025 8:05:37 AM	Peak Integrated by Software
VSTDICC0.1	VL042176.D	1,1,1-Trichloroethane	SAM	3/31/2025 11:25:04 AM	MMDadoda	4/3/2025 8:05:45 AM	Peak Integrated by Software
VSTDICC0.1	VL042176.D	1,1,2,2-Tetrachloroethane	SAM	3/31/2025 11:25:04 AM	MMDadoda	4/3/2025 8:05:45 AM	Peak Integrated by Software
VSTDICC0.1	VL042176.D	1,2-Dibromoethane	SAM	3/31/2025 11:25:04 AM	MMDadoda	4/3/2025 8:05:45 AM	Peak Integrated by Software
VSTDICC0.1	VL042176.D	Carbon Tetrachloride	SAM	3/31/2025 11:25:04 AM	MMDadoda	4/3/2025 8:05:45 AM	Peak Integrated by Software

Manual Integration Report

Sequence:

VI032725

Instrument

MSVOA_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC0.1	VL042176.D	Trichloroethene	SAM	3/31/2025 11:25:04 AM	MMDadoda	4/3/2025 8:05:45 AM	Peak Integrated by Software
VSTDICC0.03	VL042177.D	1,1,1-Trichloroethane	SAM	3/31/2025 11:26:39 AM	MMDadoda	4/3/2025 8:05:59 AM	Peak Integrated by Software
VSTDICC0.03	VL042177.D	1,1,2,2-Tetrachloroethane	SAM	3/31/2025 11:26:39 AM	MMDadoda	4/3/2025 8:05:59 AM	Peak Integrated by Software
VSTDICC0.03	VL042177.D	Carbon Tetrachloride	SAM	3/31/2025 11:26:39 AM	MMDadoda	4/3/2025 8:05:59 AM	Peak Integrated by Software
VSTDICC0.03	VL042177.D	Tetrachloroethene	SAM	3/31/2025 11:26:39 AM	MMDadoda	4/3/2025 8:05:59 AM	Peak Integrated by Software
VSTDICC0.03	VL042177.D	Trichloroethene	SAM	3/31/2025 11:26:39 AM	MMDadoda	4/3/2025 8:05:59 AM	Peak Integrated by Software
VSTDICC0.03	VL042177.D	Vinyl Chloride	SAM	3/31/2025 11:26:39 AM	MMDadoda	4/3/2025 8:05:59 AM	Peak Integrated by Software
VSTDICC015	VL042178.D	m/p-Xylene	SAM	3/31/2025 11:25:14 AM	MMDadoda	4/3/2025 8:06:09 AM	Peak Integrated by Software
VSTDICV010	VL042179.D	m/p-Xylene	SAM	3/31/2025 11:28:50 AM	MMDadoda	4/3/2025 8:06:14 AM	Peak Integrated by Software

Manual Integration Report

Sequence:	VL040725	Instrument	MSVOA_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC010	VL042228.D	Heptane	SAM	4/8/2025 8:57:24 AM	MMDadoda	4/9/2025 9:32:17 AM	Peak Integrated by Software
VSTDCCC010	VL042228.D	m/p-Xylene	SAM	4/8/2025 8:57:24 AM	MMDadoda	4/9/2025 9:32:17 AM	Peak Integrated by Software
VL0407ABS01	VL042230.D	m/p-Xylene	SAM	4/8/2025 8:57:31 AM	MMDadoda	4/9/2025 9:32:21 AM	Peak Integrated by Software
Q1725-04	VL042231.D	4-Methyl-2-Pentanone	SAM	4/8/2025 8:57:51 AM	MMDadoda	4/9/2025 9:32:25 AM	Peak Integrated by Software
Q1725-04	VL042231.D	Carbon Tetrachloride	SAM	4/8/2025 8:57:51 AM	MMDadoda	4/9/2025 9:32:25 AM	Peak Integrated by Software
Q1725-04	VL042231.D	Chlorodifluoromethane	SAM	4/8/2025 8:57:51 AM	MMDadoda	4/9/2025 9:32:25 AM	Peak Integrated by Software
Q1725-04	VL042231.D	Heptane	SAM	4/8/2025 8:57:51 AM	MMDadoda	4/9/2025 9:32:25 AM	Peak Integrated by Software
Q1725-04	VL042231.D	Toluene	SAM	4/8/2025 8:57:51 AM	MMDadoda	4/9/2025 9:32:25 AM	Peak Integrated by Software
Q1725-04DUP	VL042232.D	4-Methyl-2-Pentanone	SAM	4/8/2025 8:58:38 AM	MMDadoda	4/9/2025 9:32:29 AM	Peak Integrated by Software
Q1725-04DUP	VL042232.D	Chlorodifluoromethane	SAM	4/8/2025 8:58:38 AM	MMDadoda	4/9/2025 9:32:29 AM	Peak Integrated by Software
Q1725-04DUP	VL042232.D	Heptane	SAM	4/8/2025 8:58:38 AM	MMDadoda	4/9/2025 9:32:29 AM	Peak Integrated by Software
Q1725-04DUP	VL042232.D	m/p-Xylene	SAM	4/8/2025 8:58:38 AM	MMDadoda	4/9/2025 9:32:29 AM	Peak Integrated by Software
Q1725-01	VL042234.D	Carbon Tetrachloride	SAM	4/8/2025 8:58:43 AM	MMDadoda	4/9/2025 9:32:49 AM	Peak Integrated by Software

Manual Integration Report

Sequence:

VL040725

Instrument

MSVOA_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
Q1725-01	VL042234.D	Chlorodifluoromethane	SAM	4/8/2025 8:58:43 AM	MMDadoda	4/9/2025 9:32:49 AM	Peak Integrated by Software
Q1725-01	VL042234.D	Ethanol	SAM	4/8/2025 8:58:43 AM	MMDadoda	4/9/2025 9:32:49 AM	Peak Integrated by Software
Q1725-01	VL042234.D	Heptane	SAM	4/8/2025 8:58:43 AM	MMDadoda	4/9/2025 9:32:49 AM	Peak Integrated by Software
Q1725-01	VL042234.D	Hexane	SAM	4/8/2025 8:58:43 AM	MMDadoda	4/9/2025 9:32:49 AM	Peak Integrated by Software
Q1725-01	VL042234.D	Tetrachloroethene	SAM	4/8/2025 8:58:43 AM	MMDadoda	4/9/2025 9:32:49 AM	Peak Integrated by Software
Q1725-01	VL042234.D	Trichloroethene	SAM	4/8/2025 8:58:43 AM	MMDadoda	4/9/2025 9:32:49 AM	Peak Integrated by Software
Q1725-02	VL042235.D	Benzene	SAM	4/8/2025 9:26:36 AM	MMDadoda	4/9/2025 9:32:56 AM	Peak Integrated by Software
Q1725-02	VL042235.D	Bromodichloromethane	SAM	4/8/2025 9:26:36 AM	MMDadoda	4/9/2025 9:32:56 AM	Peak Integrated by Software
Q1725-02	VL042235.D	Chlorobenzene	SAM	4/8/2025 9:26:36 AM	MMDadoda	4/9/2025 9:32:56 AM	Peak Integrated by Software
Q1725-02	VL042235.D	Heptane	SAM	4/8/2025 9:26:36 AM	MMDadoda	4/9/2025 9:32:56 AM	Peak Integrated by Software
Q1725-02	VL042235.D	Propene	SAM	4/8/2025 9:26:36 AM	MMDadoda	4/9/2025 9:32:56 AM	Peak Integrated by Software
Q1725-02	VL042235.D	tert-Butyl alcohol	SAM	4/8/2025 9:26:36 AM	MMDadoda	4/9/2025 9:32:56 AM	Peak Integrated by Software
Q1725-02DL	VL042236.D	Carbon Tetrachloride	SAM	4/8/2025 8:58:49 AM	MMDadoda	4/9/2025 9:33:00 AM	Peak Integrated by Software

Manual Integration Report

Sequence:

VL040725

Instrument

MSVOA_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
Q1725-02DL	VL042236.D	Methylene Chloride	SAM	4/8/2025 8:58:49 AM	MMDadoda	4/9/2025 9:33:00 AM	Peak Integrated by Software
Q1725-02DL	VL042236.D	Tetrachloroethene	SAM	4/8/2025 8:58:49 AM	MMDadoda	4/9/2025 9:33:00 AM	Peak Integrated by Software
Q1725-02DL	VL042236.D	Toluene	SAM	4/8/2025 8:58:49 AM	MMDadoda	4/9/2025 9:33:00 AM	Peak Integrated by Software
Q1725-02DL	VL042236.D	Trichloroethene	SAM	4/8/2025 8:58:49 AM	MMDadoda	4/9/2025 9:33:00 AM	Peak Integrated by Software
Q1725-05DL	VL042239.D	Ethanol	SAM	4/8/2025 9:26:41 AM	MMDadoda	4/9/2025 9:33:12 AM	Peak Integrated by Software
Q1725-07DL	VL042241.D	m/p-Xylene	SAM	4/8/2025 8:58:21 AM	MMDadoda	4/9/2025 9:33:30 AM	Peak Integrated by Software
Q1725-07DL	VL042241.D	Toluene	SAM	4/8/2025 8:58:21 AM	MMDadoda	4/9/2025 9:33:30 AM	Peak Integrated by Software
Q1725-02DL2	VL042243.D	Carbon Tetrachloride	SAM	4/8/2025 8:59:08 AM	MMDadoda	4/9/2025 9:33:38 AM	Peak Integrated by Software
Q1725-02DL2	VL042243.D	Ethanol	SAM	4/8/2025 8:59:08 AM	MMDadoda	4/9/2025 9:33:38 AM	Peak Integrated by Software
Q1725-02DL2	VL042243.D	Tetrachloroethene	SAM	4/8/2025 8:59:08 AM	MMDadoda	4/9/2025 9:33:38 AM	Peak Integrated by Software
Q1725-02DL2	VL042243.D	Trichloroethene	SAM	4/8/2025 8:59:08 AM	MMDadoda	4/9/2025 9:33:38 AM	Peak Integrated by Software
Q1725-03DL	VL042244.D	Ethanol	SAM	4/8/2025 8:59:12 AM	MMDadoda	4/9/2025 9:33:41 AM	Peak Integrated by Software
Q1725-03DL	VL042244.D	Toluene	SAM	4/8/2025 8:59:12 AM	MMDadoda	4/9/2025 9:33:41 AM	Peak Integrated by Software

Manual Integration Report

Sequence:	VL040725	Instrument	MSVOA_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
Q1725-05	VL042245.D	Carbon Tetrachloride	SAM	4/8/2025 8:58:17 AM	MMDadoda	4/9/2025 9:33:45 AM	Peak Integrated by Software
Q1725-05	VL042245.D	Chlorodifluoromethane	SAM	4/8/2025 8:58:17 AM	MMDadoda	4/9/2025 9:33:45 AM	Peak Integrated by Software
Q1725-05	VL042245.D	Ethanol	SAM	4/8/2025 8:58:17 AM	MMDadoda	4/9/2025 9:33:45 AM	Peak Integrated by Software
Q1725-05	VL042245.D	Propene	SAM	4/8/2025 8:58:17 AM	MMDadoda	4/9/2025 9:33:45 AM	Peak Integrated by Software
Q1725-05	VL042245.D	Tetrachloroethene	SAM	4/8/2025 8:58:17 AM	MMDadoda	4/9/2025 9:33:45 AM	Peak Integrated by Software
Q1725-06	VL042247.D	Propene	SAM	4/8/2025 9:26:53 AM	MMDadoda	4/9/2025 9:33:53 AM	Peak Integrated by Software
Q1725-06	VL042247.D	tert-Butyl alcohol	SAM	4/8/2025 9:26:53 AM	MMDadoda	4/9/2025 9:33:53 AM	Peak Integrated by Software
Q1725-06	VL042247.D	Tetrahydrofuran	SAM	4/8/2025 9:26:53 AM	MMDadoda	4/9/2025 9:33:53 AM	Peak Integrated by Software
Q1725-06	VL042247.D	Toluene	SAM	4/8/2025 9:26:53 AM	MMDadoda	4/9/2025 9:33:53 AM	Peak Integrated by Software
Q1725-06DL	VL042248.D	Tetrachloroethene	SAM	4/14/2025 5:24:10 AM	MMDadoda	4/14/2025 5:25:27 AM	Peak Integrated by Software
Q1725-07	VL042249.D	1,1,1-Trichloroethane	SAM	4/8/2025 8:59:17 AM	MMDadoda	4/9/2025 9:33:57 AM	Peak Integrated by Software
Q1725-07	VL042249.D	2,2,4-Trimethylpentane	SAM	4/8/2025 8:59:17 AM	MMDadoda	4/9/2025 9:33:57 AM	Peak Integrated by Software
Q1725-07	VL042249.D	Carbon Tetrachloride	SAM	4/8/2025 8:59:17 AM	MMDadoda	4/9/2025 9:33:57 AM	Peak Integrated by Software

Manual Integration Report

Sequence:

VI040725

Instrument

MSVOA_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
Q1725-07	VL042249.D	Chlorodifluoromethane	SAM	4/8/2025 8:59:17 AM	MMDadoda	4/9/2025 9:33:57 AM	Peak Integrated by Software
Q1725-07	VL042249.D	Propene	SAM	4/8/2025 8:59:17 AM	MMDadoda	4/9/2025 9:33:57 AM	Peak Integrated by Software
Q1725-07	VL042249.D	tert-Butyl alcohol	SAM	4/8/2025 8:59:17 AM	MMDadoda	4/9/2025 9:33:57 AM	Peak Integrated by Software
Q1725-07	VL042249.D	Tetrachloroethene	SAM	4/8/2025 8:59:17 AM	MMDadoda	4/9/2025 9:33:57 AM	Peak Integrated by Software
Q1725-07	VL042249.D	Trichloroethene	SAM	4/8/2025 8:59:17 AM	MMDadoda	4/9/2025 9:33:57 AM	Peak Integrated by Software
Q1725-08	VL042250.D	Benzene	SAM	4/8/2025 8:58:10 AM	MMDadoda	4/9/2025 9:34:00 AM	Peak Integrated by Software
Q1725-08	VL042250.D	Ethyl Benzene	SAM	4/8/2025 8:58:10 AM	MMDadoda	4/9/2025 9:34:00 AM	Peak Integrated by Software
Q1725-08	VL042250.D	Propene	SAM	4/8/2025 8:58:10 AM	MMDadoda	4/9/2025 9:34:00 AM	Peak Integrated by Software
Q1725-08	VL042250.D	tert-Butyl alcohol	SAM	4/8/2025 8:58:10 AM	MMDadoda	4/9/2025 9:34:00 AM	Peak Integrated by Software
Q1725-08	VL042250.D	Toluene	SAM	4/8/2025 8:58:10 AM	MMDadoda	4/9/2025 9:34:00 AM	Peak Integrated by Software
Q1725-08DL	VL042251.D	Tetrachloroethene	SAM	4/8/2025 8:58:05 AM	MMDadoda	4/9/2025 9:34:04 AM	Peak Integrated by Software

Manual Integration Report

Sequence:

VL040825

Instrument

MSVOA_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDC0010	VL042253.D	m/p-Xylene	SAM	4/9/2025 11:25:40 AM	MMDadoda	4/9/2025 11:41:57 AM	Peak Integrated by Software
VL0408ABS01	VL042255.D	m/p-Xylene	SAM	4/9/2025 11:25:44 AM	MMDadoda	4/9/2025 11:41:59 AM	Peak Integrated by Software
Q1725-03	VL042256.D	Carbon Tetrachloride	SAM	4/9/2025 11:30:22 AM	MMDadoda	4/9/2025 11:42:01 AM	Peak Integrated by Software
Q1725-03	VL042256.D	Chlorodifluoromethane	SAM	4/9/2025 11:30:22 AM	MMDadoda	4/9/2025 11:42:01 AM	Peak Integrated by Software
Q1725-03	VL042256.D	Ethanol	SAM	4/9/2025 11:30:22 AM	MMDadoda	4/9/2025 11:42:01 AM	Peak Integrated by Software
Q1725-03	VL042256.D	Propene	SAM	4/9/2025 11:30:22 AM	MMDadoda	4/9/2025 11:42:01 AM	Peak Integrated by Software
Q1725-03	VL042256.D	Tetrachloroethene	SAM	4/9/2025 11:30:22 AM	MMDadoda	4/9/2025 11:42:01 AM	Peak Integrated by Software
Q1725-03	VL042256.D	Trichloroethene	SAM	4/9/2025 11:30:22 AM	MMDadoda	4/9/2025 11:42:01 AM	Peak Integrated by Software

Instrument ID: **MSVOA_L**

Daily Analysis Runlog For Sequence/QC Batch ID # VL032725

Review By	Maresh Dadoda	Review On	4/3/2025 8:14:07 AM		
Supervise By	Semsettin Yesilyurt	Supervise On	4/3/2025 8:45:16 AM		
SubDirectory	VL032725	HP Acquire Method	TO15AIR.M	HP Processing Method	VL032725AIR.M
STD. NAME		STD REF.#			
Tune/Reschk		AP2589			
Initial Calibration Stds		AP2593,AP2595,AP2596			
CCC		AP2593			
Internal Standard/PEM		AP2589			
ICV/I.BLK		AP2594			
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VL042171.D	27 Mar 2025 07:44	SY/MD	Ok
2	VSTDICCC010	VL042172.D	27 Mar 2025 08:26	SY/MD	Ok,M
3	VSTDICCC002	VL042173.D	27 Mar 2025 08:59	SY/MD	Ok,M
4	VSTDICCC001	VL042174.D	27 Mar 2025 09:30	SY/MD	Ok,M
5	VSTDICCC0.5	VL042175.D	27 Mar 2025 10:01	SY/MD	Ok,M
6	VSTDICCC0.1	VL042176.D	27 Mar 2025 10:32	SY/MD	Ok,M
7	VSTDICCC0.03	VL042177.D	27 Mar 2025 11:03	SY/MD	Ok,M
8	VSTDICCC015	VL042178.D	27 Mar 2025 11:36	SY/MD	Ok,M
9	VSTDICV010	VL042179.D	27 Mar 2025 12:23	SY/MD	Ok,M
10	VL0327ABL01	VL042180.D	27 Mar 2025 13:50	SY/MD	Ok
11	VL0327ABS01	VL042181.D	27 Mar 2025 14:39	SY/MD	Ok,M
12	QC032625 CAN 10448	VL042182.D	27 Mar 2025 16:41	SY/MD	Ok
13	Q1649-01	VL042183.D	27 Mar 2025 17:13	SY/MD	Not Ok
14	Q1649-02	VL042184.D	27 Mar 2025 17:45	SY/MD	Not Ok
15	Q1669-01	VL042185.D	27 Mar 2025 18:22	SY/MD	Dilution
16	Q1669-02	VL042186.D	27 Mar 2025 18:59	SY/MD	Ok,M
17	Q1669-03	VL042187.D	27 Mar 2025 19:36	SY/MD	Ok,M
18	Q1669-04	VL042188.D	27 Mar 2025 20:12	SY/MD	Ok,M
19	Q1669-09	VL042189.D	27 Mar 2025 20:48	SY/MD	Ok,M
20	Q1669-09DUP	VL042190.D	27 Mar 2025 21:24	SY/MD	Ok,M
21	Q1669-05	VL042191.D	27 Mar 2025 21:57	SY/MD	Not Ok

Instrument ID: **MSVOA_L**

Daily Analysis Runlog For Sequence/QC Batch ID # VL032725

Review By	Maresh Dadoda	Review On	4/3/2025 8:14:07 AM		
Supervise By	Semsettin Yesilyurt	Supervise On	4/3/2025 8:45:16 AM		
SubDirectory	VL032725	HP Acquire Method	TO15AIR.M	HP Processing Method	VL032725AIR.M
STD. NAME		STD REF.#			
Tune/Reschk		AP2589			
Initial Calibration Stds		AP2593,AP2595,AP2596			
CCC		AP2593			
Internal Standard/PEM		AP2589			
ICV/I.BLK		AP2594			
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

22	Q1669-07DL	VL042192.D	27 Mar 2025 22:29	SY/MD	Ok,M
23	Q1669-08	VL042193.D	27 Mar 2025 23:01	SY/MD	Not Ok
24	VIBLK	VL042194.D	27 Mar 2025 23:34	SY/MD	Ok
25	Q1669-01DL	VL042195.D	28 Mar 2025 00:06	SY/MD	Ok,M
26	Q1669-01DUP	VL042196.D	28 Mar 2025 00:44	SY/MD	Ok,M
27	Q1669-05	VL042197.D	28 Mar 2025 01:20	SY/MD	Ok,M
28	Q1669-07	VL042198.D	28 Mar 2025 01:57	SY/MD	Dilution
29	Q1669-08	VL042199.D	28 Mar 2025 02:33	SY/MD	Ok,M

M : Manual Integration

Instrument ID: **MSVOA_L**

Daily Analysis Runlog For Sequence/QC Batch ID # VL040725

Review By	Mahesh Dadoda	Review On	4/9/2025 11:41:05 AM		
Supervise By	Semsettin Yesilyurt	Supervise On	4/9/2025 11:43:39 AM		
SubDirectory	VL040725	HP Acquire Method	TO15AIR.M	HP Processing Method	VL032725AIR.M
STD. NAME		STD REF.#			
Tune/Reschk		AP2591			
Initial Calibration Stds		AP2593,AP2595,AP2596			
CCC		AP2593			
Internal Standard/PEM		AP2591			
ICV/I.BLK		AP2594			
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VL042227.D	07 Apr 2025 08:46	SY/MD	Ok
2	VSTDCCC010	VL042228.D	07 Apr 2025 09:31	SY/MD	Ok,M
3	VL0407ABL01	VL042229.D	07 Apr 2025 10:23	SY/MD	Ok
4	VL0407ABS01	VL042230.D	07 Apr 2025 11:09	SY/MD	Ok,M
5	Q1725-04	VL042231.D	07 Apr 2025 12:27	SY/MD	Ok,M
6	Q1725-04DUP	VL042232.D	07 Apr 2025 13:00	SY/MD	Ok,M
7	Q1725-01	VL042233.D	07 Apr 2025 13:31	SY/MD	Not Ok
8	Q1725-01	VL042234.D	07 Apr 2025 14:18	SY/MD	Ok,M
9	Q1725-02	VL042235.D	07 Apr 2025 14:51	SY/MD	Dilution
10	Q1725-02DL	VL042236.D	07 Apr 2025 17:44	SY/MD	Dilution
11	Q1725-02DL2	VL042237.D	07 Apr 2025 18:15	SY/MD	Not Ok
12	Q1725-03DL	VL042238.D	07 Apr 2025 18:46	SY/MD	Not Ok
13	Q1725-05DL	VL042239.D	07 Apr 2025 19:17	SY/MD	Ok,M
14	Q1725-06DL	VL042240.D	07 Apr 2025 19:48	SY/MD	Not Ok
15	Q1725-07DL	VL042241.D	07 Apr 2025 20:19	SY/MD	Ok,M
16	Q1725-08DL	VL042242.D	07 Apr 2025 20:50	SY/MD	Not Ok
17	Q1725-02DL2	VL042243.D	07 Apr 2025 21:38	SY/MD	Ok,M
18	Q1725-03DL	VL042244.D	07 Apr 2025 22:09	SY/MD	Ok,M
19	Q1725-05	VL042245.D	07 Apr 2025 22:40	SY/MD	Dilution
20	Q1725-05DL	VL042246.D	07 Apr 2025 23:11	SY/MD	Not Ok
21	Q1725-06	VL042247.D	07 Apr 2025 23:41	SY/MD	Dilution

Instrument ID: MSVOA_L

Daily Analysis Runlog For Sequence/QC Batch ID # VL040725

Review By	Mahesh Dadoda	Review On	4/9/2025 11:41:05 AM		
Supervise By	Semsettin Yesilyurt	Supervise On	4/9/2025 11:43:39 AM		
SubDirectory	VL040725	HP Acquire Method	TO15AIR.M	HP Processing Method	VL032725AIR.M
STD. NAME		STD REF.#			
Tune/Reschk		AP2591			
Initial Calibration Stds		AP2593,AP2595,AP2596			
CCC		AP2593			
Internal Standard/PEM		AP2591			
ICV/I.BLK		AP2594			
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

22	Q1725-06DL	VL042248.D	08 Apr 2025 00:12	SY/MD	Ok
23	Q1725-07	VL042249.D	08 Apr 2025 00:46	SY/MD	Dilution
24	Q1725-08	VL042250.D	08 Apr 2025 01:17	SY/MD	Dilution
25	Q1725-08DL	VL042251.D	08 Apr 2025 01:48	SY/MD	Ok,M

M : Manual Integration

Instrument ID: **MSVOA_L**

Daily Analysis Runlog For Sequence/QC Batch ID # VL040825

Review By	Maresh Dadoda	Review On	4/9/2025 11:42:35 AM		
Supervise By	Amit Patel	Supervise On	4/10/2025 11:22:52 AM		
SubDirectory	VL040825	HP Acquire Method	TO15AIR.M	HP Processing Method	VL032725AIR.M
STD. NAME		STD REF.#			
Tune/Reschk		AP2591			
Initial Calibration Stds		AP2593,AP2595,AP2596			
CCC		AP2593			
Internal Standard/PEM		AP2591			
ICV/I.BLK		AP2594			
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VL042252.D	08 Apr 2025 07:57	SY/MD	Ok
2	VSTDCCC010	VL042253.D	08 Apr 2025 08:39	SY/MD	Ok,M
3	VL0408ABL01	VL042254.D	08 Apr 2025 09:22	SY/MD	Ok
4	VL0408ABS01	VL042255.D	08 Apr 2025 10:05	SY/MD	Ok,M
5	Q1725-03	VL042256.D	08 Apr 2025 10:55	SY/MD	Dilution
6	Q1728-03	VL042257.D	08 Apr 2025 11:26	SY/MD	Not Ok
7	VIBLK	VL042258.D	08 Apr 2025 12:05	SY/MD	Ok,M
8	VIBLK	VL042259.D	08 Apr 2025 12:36	SY/MD	Ok
9	Q1728-06	VL042260.D	08 Apr 2025 13:07	SY/MD	Dilution
10	Q1728-06DL	VL042261.D	08 Apr 2025 13:52	SY/MD	Ok,M
11	Q1728-07	VL042262.D	08 Apr 2025 14:22	SY/MD	Not Ok
12	Q1728-08	VL042263.D	08 Apr 2025 14:53	SY/MD	Dilution
13	Q1728-11	VL042264.D	08 Apr 2025 15:25	SY/MD	Not Ok
14	Q1728-12	VL042265.D	08 Apr 2025 15:56	SY/MD	Not Ok
15	Q1728-09	VL042266.D	08 Apr 2025 16:27	SY/MD	Ok,M
16	Q1728-01DL	VL042267.D	08 Apr 2025 16:58	SY/MD	Ok,M
17	Q1728-02	VL042268.D	08 Apr 2025 17:29	SY/MD	Not Ok
18	Q1728-04	VL042269.D	08 Apr 2025 18:00	SY/MD	Not Ok
19	Q1728-05	VL042270.D	08 Apr 2025 18:32	SY/MD	Not Ok
20	Q1728-10	VL042271.D	08 Apr 2025 19:03	SY/MD	Not Ok
21	Q1728-07	VL042272.D	08 Apr 2025 20:30	SY/MD	Ok,M

Instrument ID: **MSVOA_L**

Daily Analysis Runlog For Sequence/QC Batch ID # VL040825

Review By	Maresh Dadoda	Review On	4/9/2025 11:42:35 AM		
Supervise By	Amit Patel	Supervise On	4/10/2025 11:22:52 AM		
SubDirectory	VL040825	HP Acquire Method	TO15AIR.M	HP Processing Method	VL032725AIR.M
STD. NAME		STD REF.#			
Tune/Reschk		AP2591			
Initial Calibration Stds		AP2593,AP2595,AP2596			
CCC		AP2593			
Internal Standard/PEM		AP2591			
ICV/I.BLK		AP2594			
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

22	Q1728-08DL	VL042273.D	08 Apr 2025 21:37	SY/MD	Ok,M
23	Q1728-11	VL042274.D	08 Apr 2025 22:11	SY/MD	Ok,M
24	Q1728-12	VL042275.D	08 Apr 2025 22:42	SY/MD	Ok,M
25	Q1728-09DUP	VL042276.D	08 Apr 2025 23:13	SY/MD	Ok,M
26	Q1728-01	VL042277.D	08 Apr 2025 23:44	SY/MD	Dilution
27	Q1728-02	VL042278.D	09 Apr 2025 00:15	SY/MD	Ok,M
28	Q1728-04	VL042279.D	09 Apr 2025 00:46	SY/MD	Dilution
29	Q1728-04DL	VL042280.D	09 Apr 2025 01:18	SY/MD	Ok,M
30	Q1728-05	VL042281.D	09 Apr 2025 01:49	SY/MD	Dilution
31	Q1728-05DL	VL042282.D	09 Apr 2025 02:20	SY/MD	Ok
32	Q1728-10	VL042283.D	09 Apr 2025 02:51	SY/MD	Ok,M
33	Q1728-03	VL042284.D	09 Apr 2025 03:22	SY/MD	Ok,M

M : Manual Integration

Instrument ID: MSVOA_L

Daily Analysis Runlog For Sequence/QC Batch ID # VL032725

Review By	Maresh Dadoda	Review On	4/3/2025 8:14:07 AM
Supervise By	Semsettin Yesilyurt	Supervise On	4/3/2025 8:45:16 AM
SubDirectory	VL032725	HP Acquire Method	TO15AIR.M HP Processing Method VL032725AIR.M

STD. NAME	STD REF.#
Tune/Reschk	AP2589
Initial Calibration Stds	AP2593,AP2595,AP2596
CCC	AP2593
Internal Standard/PEM	AP2589
ICV/I.BLK	AP2594
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VL042171.D	27 Mar 2025 07:44		SY/MD	Ok
2	VSTDICCC010	VSTDICCC010	VL042172.D	27 Mar 2025 08:26		SY/MD	Ok,M
3	VSTDICC002	VSTDICC002	VL042173.D	27 Mar 2025 08:59		SY/MD	Ok,M
4	VSTDICC001	VSTDICC001	VL042174.D	27 Mar 2025 09:30		SY/MD	Ok,M
5	VSTDICC0.5	VSTDICC0.5	VL042175.D	27 Mar 2025 10:01		SY/MD	Ok,M
6	VSTDICC0.1	VSTDICC0.1	VL042176.D	27 Mar 2025 10:32		SY/MD	Ok,M
7	VSTDICC0.03	VSTDICC0.03	VL042177.D	27 Mar 2025 11:03		SY/MD	Ok,M
8	VSTDICC015	VSTDICC015	VL042178.D	27 Mar 2025 11:36		SY/MD	Ok,M
9	VSTDICV010	ICVVL032725	VL042179.D	27 Mar 2025 12:23		SY/MD	Ok,M
10	VL0327ABL01	VL0327ABL01	VL042180.D	27 Mar 2025 13:50		SY/MD	Ok
11	VL0327ABS01	VL0327ABS01	VL042181.D	27 Mar 2025 14:39		SY/MD	Ok,M
12	QC032625 CAN 10448	QC032625 CAN 10448	VL042182.D	27 Mar 2025 16:41		SY/MD	Ok
13	Q1649-01	SV1	VL042183.D	27 Mar 2025 17:13	rerun 4X,not required	SY/MD	Not Ok
14	Q1649-02	SV2	VL042184.D	27 Mar 2025 17:45	rerun 4X,not required	SY/MD	Not Ok
15	Q1669-01	IA-B9-3-3262025	VL042185.D	27 Mar 2025 18:22	Need 5x	SY/MD	Dilution
16	Q1669-02	IA-B9-2-3262025	VL042186.D	27 Mar 2025 18:59		SY/MD	Ok,M
17	Q1669-03	IA-B9-1-3262025	VL042187.D	27 Mar 2025 19:36		SY/MD	Ok,M
18	Q1669-04	AA-2-3252025	VL042188.D	27 Mar 2025 20:12		SY/MD	Ok,M

Instrument ID: MSVOA_L

Daily Analysis Runlog For Sequence/QC Batch ID # VL032725

Review By	Mahesh Dadoda	Review On	4/3/2025 8:14:07 AM		
Supervise By	Semsettin Yesilyurt	Supervise On	4/3/2025 8:45:16 AM		
SubDirectory	VL032725	HP Acquire Method	TO15AIR.M	HP Processing Method	VL032725AIR.M
STD. NAME	STD REF.#				
Tune/Reschk	AP2589				
Initial Calibration Stds	AP2593,AP2595,AP2596				
CCC	AP2593				
Internal Standard/PEM	AP2589				
ICV/I.BLK	AP2594				
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

19	Q1669-09	AA-3-3252025	VL042189.D	27 Mar 2025 20:48		SY/MD	Ok,M
20	Q1669-09DUP	AA-3-3252025DUP	VL042190.D	27 Mar 2025 21:24		SY/MD	Ok,M
21	Q1669-05	SSSG-B16-3-3262025	VL042191.D	27 Mar 2025 21:57	Need straight run	SY/MD	Not Ok
22	Q1669-07DL	SSSG-B16-1-3262025	VL042192.D	27 Mar 2025 22:29		SY/MD	Ok,M
23	Q1669-08	SSSG-B16-2-3262025	VL042193.D	27 Mar 2025 23:01	Need straight run	SY/MD	Not Ok
24	VIBLK	VIBLK	VL042194.D	27 Mar 2025 23:34		SY/MD	Ok
25	Q1669-01DL	IA-B9-3-3262025DL	VL042195.D	28 Mar 2025 00:06		SY/MD	Ok,M
26	Q1669-01DUP	IA-B9-3-3262025DUP	VL042196.D	28 Mar 2025 00:44		SY/MD	Ok,M
27	Q1669-05	SSSG-B16-3-3262025	VL042197.D	28 Mar 2025 01:20		SY/MD	Ok,M
28	Q1669-07	SSSG-B16-1-3262025	VL042198.D	28 Mar 2025 01:57	Need 10X	SY/MD	Dilution
29	Q1669-08	SSSG-B16-2-3262025	VL042199.D	28 Mar 2025 02:33		SY/MD	Ok,M

M : Manual Integration

Instrument ID: MSVOA_L

Daily Analysis Runlog For Sequence/QC Batch ID # VL040725

Review By	Maresh Dadoda	Review On	4/9/2025 11:41:05 AM
Supervise By	Semsettin Yesilyurt	Supervise On	4/9/2025 11:43:39 AM
SubDirectory	VL040725	HP Acquire Method	TO15AIR.M
		HP Processing Method	VL032725AIR.M

STD. NAME	STD REF.#
Tune/Reschk	AP2591
Initial Calibration Stds	AP2593,AP2595,AP2596
CCC	AP2593
Internal Standard/PEM	AP2591
ICV/I.BLK	AP2594
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VL042227.D	07 Apr 2025 08:46		SY/MD	Ok
2	VSTDCCC010	VSTDCCC010	VL042228.D	07 Apr 2025 09:31		SY/MD	Ok,M
3	VL0407ABL01	VL0407ABL01	VL042229.D	07 Apr 2025 10:23		SY/MD	Ok
4	VL0407ABS01	VL0407ABS01	VL042230.D	07 Apr 2025 11:09		SY/MD	Ok,M
5	Q1725-04	AA-1-03312025	VL042231.D	07 Apr 2025 12:27		SY/MD	Ok,M
6	Q1725-04DUP	AA-1-03312025DUP	VL042232.D	07 Apr 2025 13:00		SY/MD	Ok,M
7	Q1725-01	SSSG-B1-2-04012025	VL042233.D	07 Apr 2025 13:31	Need Straight Run	SY/MD	Not Ok
8	Q1725-01	SSSG-B1-2-04012025	VL042234.D	07 Apr 2025 14:18		SY/MD	Ok,M
9	Q1725-02	SSSG-B10-4-04012025	VL042235.D	07 Apr 2025 14:51	Need 10X	SY/MD	Dilution
10	Q1725-02DL	SSSG-B10-4-04012025	VL042236.D	07 Apr 2025 17:44	Need 40X	SY/MD	Dilution
11	Q1725-02DL2	SSSG-B10-4-04012025	VL042237.D	07 Apr 2025 18:15	Need further dilution	SY/MD	Not Ok
12	Q1725-03DL	SSSG-DUP-2-04012025	VL042238.D	07 Apr 2025 18:46	Not Required	SY/MD	Not Ok
13	Q1725-05DL	SSSG-B14-3-04012025	VL042239.D	07 Apr 2025 19:17		SY/MD	Ok,M
14	Q1725-06DL	SSSG-B10-3-03312025	VL042240.D	07 Apr 2025 19:48	Need further dilution	SY/MD	Not Ok
15	Q1725-07DL	SSSG-B10-1-03312025	VL042241.D	07 Apr 2025 20:19		SY/MD	Ok,M
16	Q1725-08DL	SSSG-B10-2-03312025	VL042242.D	07 Apr 2025 20:50	Need further dilution	SY/MD	Not Ok
17	Q1725-02DL2	SSSG-B10-4-04012025	VL042243.D	07 Apr 2025 21:38		SY/MD	Ok,M
18	Q1725-03DL	SSSG-DUP-2-04012025	VL042244.D	07 Apr 2025 22:09		SY/MD	Ok,M

Instrument ID: MSVOA_L

Daily Analysis Runlog For Sequence/QC Batch ID # VL040725

Review By	Mahesh Dadoda	Review On	4/9/2025 11:41:05 AM		
Supervise By	Semsettin Yesilyurt	Supervise On	4/9/2025 11:43:39 AM		
SubDirectory	VL040725	HP Acquire Method	TO15AIR.M	HP Processing Method	VL032725AIR.M
STD. NAME		STD REF.#			
Tune/Reschk		AP2591			
Initial Calibration Stds		AP2593,AP2595,AP2596			
CCC		AP2593			
Internal Standard/PEM		AP2591			
ICV/I.BLK		AP2594			
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

19	Q1725-05	SSSG-B14-3-04012025	VL042245.D	07 Apr 2025 22:40	Need 10X	SY/MD	Dilution
20	Q1725-05DL	SSSG-B14-3-04012025	VL042246.D	07 Apr 2025 23:11	Not Required	SY/MD	Not Ok
21	Q1725-06	SSSG-B10-3-03312025	VL042247.D	07 Apr 2025 23:41	Need 40X	SY/MD	Dilution
22	Q1725-06DL	SSSG-B10-3-03312025	VL042248.D	08 Apr 2025 00:12		SY/MD	Ok
23	Q1725-07	SSSG-B10-1-03312025	VL042249.D	08 Apr 2025 00:46	Need 10X	SY/MD	Dilution
24	Q1725-08	SSSG-B10-2-03312025	VL042250.D	08 Apr 2025 01:17	Need 40X	SY/MD	Dilution
25	Q1725-08DL	SSSG-B10-2-03312025	VL042251.D	08 Apr 2025 01:48		SY/MD	Ok,M

M : Manual Integration

Instrument ID: MSVOA_L

Daily Analysis Runlog For Sequence/QC Batch ID # VL040825

Review By	Maresh Dadoda	Review On	4/9/2025 11:42:35 AM
Supervise By	Amit Patel	Supervise On	4/10/2025 11:22:52 AM
SubDirectory	VL040825	HP Acquire Method	TO15AIR.M HP Processing Method VL032725AIR.M

STD. NAME	STD REF.#
Tune/Reschk	AP2591
Initial Calibration Stds	AP2593,AP2595,AP2596
CCC	AP2593
Internal Standard/PEM	AP2591
ICV/I.BLK	AP2594
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VL042252.D	08 Apr 2025 07:57		SY/MD	Ok
2	VSTDCCC010	VSTDCCC010	VL042253.D	08 Apr 2025 08:39		SY/MD	Ok,M
3	VL0408ABL01	VL0408ABL01	VL042254.D	08 Apr 2025 09:22		SY/MD	Ok
4	VL0408ABS01	VL0408ABS01	VL042255.D	08 Apr 2025 10:05		SY/MD	Ok,M
5	Q1725-03	SSSG-DUP-2-0401202	VL042256.D	08 Apr 2025 10:55	need 4X	SY/MD	Dilution
6	Q1728-03	SSSG-B2-2-04022025	VL042257.D	08 Apr 2025 11:26	Surrogate Fail; Need 40X; Bad chromatograph and RT shifted	SY/MD	Not Ok
7	VIBLK	VIBLK	VL042258.D	08 Apr 2025 12:05	clean up	SY/MD	Ok,M
8	VIBLK	VIBLK	VL042259.D	08 Apr 2025 12:36	clean up	SY/MD	Ok
9	Q1728-06	SSSG-B2-5-04022025	VL042260.D	08 Apr 2025 13:07	Need 40X	SY/MD	Dilution
10	Q1728-06DL	SSSG-B2-5-04022025	VL042261.D	08 Apr 2025 13:52		SY/MD	Ok,M
11	Q1728-07	SSSG-B1-1-04012025	VL042262.D	08 Apr 2025 14:22	Run @ Lower Dilution	SY/MD	Not Ok
12	Q1728-08	SSSG-B2-4-04022025	VL042263.D	08 Apr 2025 14:53	Need 40X	SY/MD	Dilution
13	Q1728-11	SSSG-B1-4-04012025	VL042264.D	08 Apr 2025 15:25	Run @ Lower Dilution	SY/MD	Not Ok
14	Q1728-12	SSSG-B1-3-04012025	VL042265.D	08 Apr 2025 15:56	Run @ Lower Dilution	SY/MD	Not Ok
15	Q1728-09	SSSG-B2-1-04022025	VL042266.D	08 Apr 2025 16:27		SY/MD	Ok,M
16	Q1728-01DL	SSSG-B14-2-04012025	VL042267.D	08 Apr 2025 16:58		SY/MD	Ok,M
17	Q1728-02	SSSG-B1-5-04012025	VL042268.D	08 Apr 2025 17:29	Run @ Lower Dilution	SY/MD	Not Ok

Instrument ID: MSVOA_L

Daily Analysis Runlog For Sequence/QC Batch ID # VL040825

Review By	Mahesh Dadoda	Review On	4/9/2025 11:42:35 AM		
Supervise By	Amit Patel	Supervise On	4/10/2025 11:22:52 AM		
SubDirectory	VL040825	HP Acquire Method	TO15AIR.M	HP Processing Method	VL032725AIR.M
STD. NAME		STD REF.#			
Tune/Reschk		AP2591			
Initial Calibration Stds		AP2593,AP2595,AP2596			
CCC		AP2593			
Internal Standard/PEM		AP2591			
ICV/I.BLK		AP2594			
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

18	Q1728-04	SSSG-B2-7-04022025	VL042269.D	08 Apr 2025 18:00	Run @ Lower Dilution	SY/MD	Not Ok
19	Q1728-05	SSSG-B2-6-04022025	VL042270.D	08 Apr 2025 18:32	Run @ Lower Dilution	SY/MD	Not Ok
20	Q1728-10	SSSG-B14-4-04022025	VL042271.D	08 Apr 2025 19:03	Run @ Lower Dilution	SY/MD	Not Ok
21	Q1728-07	SSSG-B1-1-04012025	VL042272.D	08 Apr 2025 20:30	no sample to rerun straight	SY/MD	Ok,M
22	Q1728-08DL	SSSG-B2-4-04022025	VL042273.D	08 Apr 2025 21:37		SY/MD	Ok,M
23	Q1728-11	SSSG-B1-4-04012025	VL042274.D	08 Apr 2025 22:11		SY/MD	Ok,M
24	Q1728-12	SSSG-B1-3-04012025	VL042275.D	08 Apr 2025 22:42		SY/MD	Ok,M
25	Q1728-09DUP	SSSG-B2-1-04022025	VL042276.D	08 Apr 2025 23:13		SY/MD	Ok,M
26	Q1728-01	SSSG-B14-2-04012025	VL042277.D	08 Apr 2025 23:44	Need 10X	SY/MD	Dilution
27	Q1728-02	SSSG-B1-5-04012025	VL042278.D	09 Apr 2025 00:15		SY/MD	Ok,M
28	Q1728-04	SSSG-B2-7-04022025	VL042279.D	09 Apr 2025 00:46	Need 40X	SY/MD	Dilution
29	Q1728-04DL	SSSG-B2-7-04022025	VL042280.D	09 Apr 2025 01:18		SY/MD	Ok,M
30	Q1728-05	SSSG-B2-6-04022025	VL042281.D	09 Apr 2025 01:49	Need 40X	SY/MD	Dilution
31	Q1728-05DL	SSSG-B2-6-04022025	VL042282.D	09 Apr 2025 02:20		SY/MD	Ok
32	Q1728-10	SSSG-B14-4-04022025	VL042283.D	09 Apr 2025 02:51		SY/MD	Ok,M
33	Q1728-03	SSSG-B2-2-04022025	VL042284.D	09 Apr 2025 03:22		SY/MD	Ok,M

M : Manual Integration

Prep Standard - Chemical Standard Summary

Order ID : Q1725

Test : TO-15

Prepbatch ID :

Sequence ID/Qc Batch ID: vl040725,VL040825,

Standard ID :

AP2591,AP2593,AP2594,AP2595,AP2596,

Chemical ID :

A1117,A1135,A1136,A1137,

Air STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
47	Internal Standard/Surrogate Mix-80 ppbv	AP2591	03/21/2025	04/21/2025	Semsettin Yesilyurt	None	None	Maresh Dadoda
								04/03/2025

FROM 2.40000psi of A1135 + 27.60000psi of A1117 = Final Quantity: 30.000 psi

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
2396	TO-15 15 PPBV CAL MIX	AP2593	03/21/2025	04/21/2025	Semsettin Yesilyurt	None	None	Maresh Dadoda
								04/03/2025

FROM 1455.00000SCCM of A1117 + 45.00000SCCM of A1136 = Final Quantity: 30.000 psi

Air STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
2396	TO-15 15 PPBV CAL MIX	AP2594	03/21/2025	04/21/2025	Semsettin Yesilyurt	None	None	Maresh Dadoda
								04/03/2025

FROM 1455.00000SCCM of A1117 + 45.00000SCCM of A1137 = Final Quantity: 30.000 psi

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
2397	TO-15 -2 PPBV CAL.MIX	AP2595	03/25/2025	04/21/2025	Semsettin Yesilyurt	None	None	Maresh Dadoda
								04/03/2025

FROM 26.00000psi of A1117 + 4.00000psi of AP2593 = Final Quantity: 30.000 psi



<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
2668	0.5 PPBV CAL.MIX	AP2596	03/25/2025	04/21/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 04/03/2025
<u>FROM</u> 29.00000psi of A1117 + 1.00000psi of AP2593 = Final Quantity: 30.000 psi								

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
AIR LIQUIDE	365A-49 / AIR, Compressed	90402401186-01	04/01/2026	04/01/2022 / apatel	04/01/2022 / SAM	A1117

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CUSTOMGAS Solutions	TB500009-110 / TO-15 Internal Standard/Surrogate Standard	BC275465	07/16/2025	07/22/2024 / SAM	07/22/2024 / SAM	A1135

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CUSTOMGAS Solutions	TO15-80-6R-07092 / TO-15 Modified (80 comp) in Nitrogen (addition of 2-methylnaphthalene)	040424-003A	07/16/2025	07/25/2024 / SAM	07/22/2024 / SAM	A1136

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CUSTOMGAS Solutions	TO15-80-6R-07092 / TO-15 Modified (80 comp) in Nitrogen (addition of 2-methylnaphthalene)	040424-003B	07/16/2025	07/25/2024 / SAM	07/22/2024 / SAM	A1137

CUSTOMGAS SOLUTIONS



1750 East Club Boulevard

Durham, NC 27704

Phone: (919) 220-2570

Fax: (919) 220-4540

Certificate of Analysis

Customer:

Chem Tech
284 Sheffield Street
Mountainside, NJ 07092

Tel: (908) 789-8900

Cylinder Number: BC275465
Cylinder Size/CGA: 170/180SS
Fill Pressure: 1815 PSIA
Gas Volume: ~170 liters
Date of Mfg: 07/16/2024
Expiration Date: 07/16/2025

Ship To : Chem Tech
284 Sheffield Street
Mountainside, NJ 07092

Customer Number	Ship VIA	Job No.	Customer PO	Mixture Type
00107092NJ	Best Way	040424-003	240404-10	Gravimetric

Component	Nominal Concentration	Actual Concentration*	Mixture Type
Bromochloromethane	1 ppm	1.014 ppm +/- 0.02 ppm	Gravimetric Master Gas
4-Bromofluorobenzene	1 ppm	1.008 ppm +/- 0.02 ppm	
Chlorobenzene-D5	1 ppm	0.993 ppm +/- 0.02 ppm	
1,4-Difluorobenzene	1 ppm	0.979 ppm +/- 0.02 ppm	
Nitrogen	balance	balance	

NOTES: Blend Tolerance:

+/- 10 %

Analytical Tolerance:

+/- 5 %

Traceability:

NIST by weight set. NIST Traceability No MT001810.
Internal Standards by analysis

Reactive Mixtures:

Analyzed twice with required agreement between analyses of 2%.
Required wait time between analyses of >7 days.

Caution:

Do not use below 150 PSIG.

Analyst Name: Joseph A. Ernst

QA Signature: 

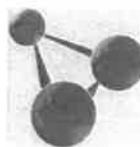
Signature: 

Date: 07/16/2024

*Every effort has been made to establish the actual concentration of the components using master gas blending technology however, Custom Gas Solutions shall have no liability in excess of the established charge for this material.

CUSTOMGAS

SOLUTIONS



1750 East Club Boulevard
Durham, NC 27704
Phone: (919) 220-2570
Fax: (919) 220-4540

Certificate of Analysis

Customer:

ChemTech
284 Sheffield Street
Mountainside, NJ 07092

Cylinder Number: BC917782
Cylinder Size/CGA: 170/180
Fill Pressure: 1815 PSIA
Gas Volume: 110 liters
Date of Mfg: 07/16/2024
Expiration Date: 07/16/2025
Lot Number: 040424-003A

Ship To : Chemtech
284 Sheffield Street
Mountainside, NJ 07092

Customer Number	Ship VIA	Job No.	Customer PO	Mixture Type
00107092NJ	Best Way	040424-003	240404-10	Gravimetric

Component	Nominal Concentration	Actual Concentration*	Mixture Type
Acetone	500 ppb	517 ppb +/- 50 ppb	Gravimetric Master Gas
Acetonitrile	500 ppb	534 ppb +/- 50 ppb	
Acrolein	500 ppb	545 ppb +/- 50 ppb	
Acrylonitrile	500 ppb	539 ppb +/- 50 ppb	-
Allyl chloride	500 ppb	509 ppb +/- 50 ppb	
Benzene	500 ppb	483 ppb +/- 50 ppb	
Benzyl Chloride	500 ppb	489 ppb +/- 50 ppb	
Bromodichloromethane	500 ppb	509 ppb +/- 50 ppb	
Bromoform	500 ppb	495 ppb +/- 50 ppb	
1,3-Butadiene	500 ppb	504 ppb +/- 50 ppb	
tert-Butyl alcohol	500 ppb	532 ppb +/- 50 ppb	
n-Butyl benzene	500 ppb	529 ppb +/- 50 ppb	
sec-Butyl benzene	500 ppb	529 ppb +/- 50 ppb	
tert-Butyl benzene	500 ppb	529 ppb +/- 50 ppb	
Carbon disulfide	500 ppb	485 ppb +/- 50 ppb	
Carbon tetrachloride	500 ppb	506 ppb +/- 50 ppb	
Chlorobenzene	500 ppb	491 ppb +/- 50 ppb	
Chlorodibromomethane	500 ppb	488 ppb +/- 50 ppb	
Chloroform	500 ppb	492 ppb +/- 50 ppb	
2-Chlorotoluene	500 ppb	532 ppb +/- 50 ppb	
Cyclohexane	500 ppb	482 ppb +/- 50 ppb	
1,2-Dibromoethane	500 ppb	491 ppb +/- 50 ppb	
1,2-Dichlorobenzene	500 ppb	510 ppb +/- 50 ppb	
1,3-Dichlorobenzene	500 ppb	489 ppb +/- 50 ppb	
1,4-Dichlorobenzene	500 ppb	490 ppb +/- 50 ppb	
Dichlorodifluoromethane (R12)	500 ppb	508 ppb +/- 50 ppb	

1,1-Dichloroethane	500 ppb	492 ppb +/- 50 ppb	
1,2-Dichloroethane	500 ppb	497 ppb +/- 50 ppb	
1,1-Dichloroethylene	500 ppb	493 ppb +/- 50 ppb	
cis 1,2-Dichloroethylene	500 ppb	488 ppb +/- 50 ppb	
trans 1,2-Dichloroethylene	500 ppb	488 ppb +/- 50 ppb	
1,2-Dichloropropane	500 ppb	490 ppb +/- 50 ppb	
cis 1,3-Dichloropropylene	500 ppb	516 ppb +/- 50 ppb	
trans 1,3-Dichloropropylene	500 ppb	466 ppb +/- 50 ppb	
1,2-Dichlorotetrafluoroethane	500 ppb	505 ppb +/- 50 ppb	
1,4-Dioxane	500 ppb	484 ppb +/- 50 ppb	
Ethyl acetate	500 ppb	486 ppb +/- 50 ppb	
Ethyl Alcohol	500 ppb	555 ppb +/- 50 ppb	
Ethyl benzene	500 ppb	497 ppb +/- 50 ppb	
Ethyl Chloride	500 ppb	506 ppb +/- 50 ppb	
4-Ethyltoluene	500 ppb	485 ppb +/- 50 ppb	
n-Heptane	500 ppb	487 ppb +/- 50 ppb	
Hexachloro-1,3-butadiene	500 ppb	489 ppb +/- 50 ppb	
2-Hexanone	500 ppb	490 ppb +/- 50 ppb	
n-Hexane	500 ppb	485 ppb +/- 50 ppb	
Isopropyl alcohol	500 ppb	511 ppb +/- 50 ppb	
Isopropyl benzene	500 ppb	527 ppb +/- 50 ppb	
p-Isopropyl toluene	500 ppb	534 ppb +/- 50 ppb	
Methyl Bromide	500 ppb	505 ppb +/- 50 ppb	
Methyl Chloride	500 ppb	509 ppb +/- 50 ppb	
Methyl ethyl ketone	500 ppb	496 ppb +/- 50 ppb	
Methyl isobutyl ketone	500 ppb	493 ppb +/- 50 ppb	
Methyl methacrylate	500 ppb	532 ppb +/- 50 ppb	
Methyl tertiary butyl ether	500 ppb	483 ppb +/- 50 ppb	
Methylene chloride	500 ppb	498 ppb +/- 50 ppb	
Naphthalene	500 ppb	542 ppb +/- 50 ppb	
n-Propylbenzene	500 ppb	529 ppb +/- 50 ppb	
Propylene	500 ppb	508 ppb +/- 50 ppb	
Styrene	500 ppb	485 ppb +/- 50 ppb	
1,1,1,2-Tetrachloroethane	500 ppb	483 ppb +/- 50 ppb	
1,1,2,2-Tetrachloroethane	500 ppb	534 ppb +/- 50 ppb	
Tetrachloroethylene	500 ppb	487 ppb +/- 50 ppb	
Tetrahydrofuran	500 ppb	535 ppb +/- 50 ppb	
Toluene	500 ppb	491 ppb +/- 50 ppb	
1,2,4-Trichlorobenzene	500 ppb	494 ppb +/- 50 ppb	
1,1,1-Trichloroethane	500 ppb	494 ppb +/- 50 ppb	
1,1,2-Trichloroethane	500 ppb	494 ppb +/- 50 ppb	
Trichloroethylene	500 ppb	488 ppb +/- 50 ppb	
Trichlorofluoromethane	500 ppb	508 ppb +/- 50 ppb	
1,1,2-Trichlorotrifluoroethane	500 ppb	495 ppb +/- 50 ppb	
1,2,4-Trimethylbenzene	500 ppb	494 ppb +/- 50 ppb	
1,3,5-Trimethylbenzene	500 ppb	498 ppb +/- 50 ppb	
2,2,4-Trimethylpentane	500 ppb	489 ppb +/- 50 ppb	
Vinyl acetate	500 ppb	499 ppb +/- 50 ppb	
Vinyl bromide	500 ppb	505 ppb +/- 50 ppb	
Vinyl chloride	500 ppb	507 ppb +/- 50 ppb	
m-Xylene	500 ppb	492 ppb +/- 50 ppb	
o-Xylene	500 ppb	480 ppb +/- 50 ppb	
p-Xylene	500 ppb	486 ppb +/- 50 ppb	
2-Methyl Naphthalene	500 ppb	498 ppb +/- 50 ppb	
R-22	500 ppb	590 ppb +/- 50 ppb	
Nitrogen	balance	balance	

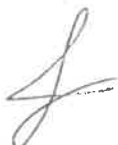
NOTES: Blend Tolerance: +/- 20 %
Analytical Tolerance: +/- 10 %
Traceability: NIST by weight set. NIST Traceability No MT001810.
Internal Standards by analysis
Reactive Mixtures: Analyzed twice with required agreement between analyses of 2%.
Required wait time between analyses of >7 days.
Caution: Do not use below 150 PSIG.

Analyst Name: Joseph A. Ernst

QA Signature: 

Signature:

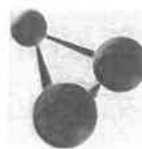
Date: 07/16/2024



*Every effort has been made to establish the actual concentration of the components using master gas blending technology however, Custom Gas Solutions shall have no liability in excess of the established charge for this material.

CUSTOMGAS

SOLUTIONS



1750 East Club Boulevard
Durham, NC 27704
Phone: (919) 220-2570
Fax: (919) 220-4540

Certificate of Analysis

Customer:

ChemTech
284 Sheffield Street
Mountainside, NJ 07092

Cylinder Number: BC169552
Cylinder Size/CGA: 170/180
Fill Pressure: 1815 PSIA
Gas Volume: 110 liters
Date of Mfg: 07/16/2024
Expiration Date: 07/16/2025
Lot Number: 040424-003B

Ship To : Chemtech
284 Sheffield Street
Mountainside, NJ 07092

Customer Number	Ship VIA	Job No.	Customer PO	Mixture Type
00107092NJ	Best Way	040424-003	240404-10	Gravimetric

Component	Nominal Concentration	Actual Concentration*	Mixture Type
Acetone	500 ppb	502 ppb +/- 50 ppb	Gravimetric Master Gas
Acetonitrile	500 ppb	530 ppb +/- 50 ppb	
Acrolein	500 ppb	540 ppb +/- 50 ppb	
Acrylonitrile	500 ppb	535 ppb +/- 50 ppb	
Allyl chloride	500 ppb	494 ppb +/- 50 ppb	
Benzene	500 ppb	470 ppb +/- 50 ppb	
Benzyl Chloride	500 ppb	476 ppb +/- 50 ppb	
Bromodichloromethane	500 ppb	495 ppb +/- 50 ppb	
Bromoform	500 ppb	481 ppb +/- 50 ppb	
1,3-Butadiene	500 ppb	490 ppb +/- 50 ppb	
tert-Butyl alcohol	500 ppb	527 ppb +/- 50 ppb	
n-Butyl benzene	500 ppb	525 ppb +/- 50 ppb	
sec-Butyl benzene	500 ppb	525 ppb +/- 50 ppb	
tert-Butyl benzene	500 ppb	525 ppb +/- 50 ppb	
Carbon disulfide	500 ppb	471 ppb +/- 50 ppb	
Carbon tetrachloride	500 ppb	492 ppb +/- 50 ppb	
Chlorobenzene	500 ppb	478 ppb +/- 50 ppb	
Chlorodibromomethane	500 ppb	474 ppb +/- 50 ppb	
Chloroform	500 ppb	478 ppb +/- 50 ppb	
2-Chlorotoluene	500 ppb	527 ppb +/- 50 ppb	
Cyclohexane	500 ppb	469 ppb +/- 50 ppb	
1,2-Dibromoethane	500 ppb	477 ppb +/- 50 ppb	
1,2-Dichlorobenzene	500 ppb	495 ppb +/- 50 ppb	
1,3-Dichlorobenzene	500 ppb	475 ppb +/- 50 ppb	
1,4-Dichlorobenzene	500 ppb	476 ppb +/- 50 ppb	
Dichlorodifluoromethane (R12)	500 ppb	494 ppb +/- 50 ppb	

1,1-Dichloroethane	500 ppb	478 ppb +/- 50 ppb	
1,2-Dichloroethane	500 ppb	483 ppb +/- 50 ppb	
1,1-Dichloroethylene	500 ppb	479 ppb +/- 50 ppb	
cis 1,2-Dichloroethylene	500 ppb	475 ppb +/- 50 ppb	
trans 1,2-Dichloroethylene	500 ppb	475 ppb +/- 50 ppb	
1,2-Dichloropropane	500 ppb	476 ppb +/- 50 ppb	
cis 1,3-Dichloropropylene	500 ppb	501 ppb +/- 50 ppb	
trans 1,3-Dichloropropylene	500 ppb	466 ppb +/- 50 ppb	
1,2-Dichlorotetrafluoroethane	500 ppb	491 ppb +/- 50 ppb	
1,4-Dioxane	500 ppb	470 ppb +/- 50 ppb	
Ethyl acetate	500 ppb	472 ppb +/- 50 ppb	
Ethyl Alcohol	500 ppb	550 ppb +/- 50 ppb	
Ethyl benzene	500 ppb	483 ppb +/- 50 ppb	
Ethyl Chloride	500 ppb	492 ppb +/- 50 ppb	
4-Ethyltoluene	500 ppb	472 ppb +/- 50 ppb	
n-Heptane	500 ppb	473 ppb +/- 50 ppb	
Hexachloro-1,3-butadiene	500 ppb	475 ppb +/- 50 ppb	
2-Hexanone	500 ppb	477 ppb +/- 50 ppb	
n-Hexane	500 ppb	471 ppb +/- 50 ppb	
Isopropyl alcohol	500 ppb	497 ppb +/- 50 ppb	
Isopropyl benzene	500 ppb	522 ppb +/- 50 ppb	
p-Isopropyl toluene	500 ppb	530 ppb +/- 50 ppb	
Methyl Bromide	500 ppb	491 ppb +/- 50 ppb	
Methyl Chloride	500 ppb	494 ppb +/- 50 ppb	
Methyl ethyl ketone	500 ppb	482 ppb +/- 50 ppb	
Methyl isobutyl ketone	500 ppb	479 ppb +/- 50 ppb	
Methyl methacrylate	500 ppb	527 ppb +/- 50 ppb	
Methyl tertiary butyl ether	500 ppb	470 ppb +/- 50 ppb	
Methylene chloride	500 ppb	484 ppb +/- 50 ppb	
Naphthalene	500 ppb	537 ppb +/- 50 ppb	
n-Propylbenzene	500 ppb	525 ppb +/- 50 ppb	
Propylene	500 ppb	494 ppb +/- 50 ppb	
Styrene	500 ppb	472 ppb +/- 50 ppb	
1,1,1,2-Tetrachloroethane	500 ppb	530 ppb +/- 50 ppb	
1,1,2,2-Tetrachloroethane	500 ppb	470 ppb +/- 50 ppb	
Tetrachloroethylene	500 ppb	473 ppb +/- 50 ppb	
Tetrahydrofuran	500 ppb	520 ppb +/- 50 ppb	
Toluene	500 ppb	477 ppb +/- 50 ppb	
1,2,4-Trichlorobenzene	500 ppb	480 ppb +/- 50 ppb	
1,1,1-Trichloroethane	500 ppb	480 ppb +/- 50 ppb	
1,1,2-Trichloroethane	500 ppb	481 ppb +/- 50 ppb	
Trichloroethylene	500 ppb	474 ppb +/- 50 ppb	
Trichlorofluoromethane	500 ppb	494 ppb +/- 50 ppb	
1,1,2-Trichlorotrifluoroethane	500 ppb	481 ppb +/- 50 ppb	
1,2,4-Trimethylbenzene	500 ppb	480 ppb +/- 50 ppb	
1,3,5-Trimethylbenzene	500 ppb	484 ppb +/- 50 ppb	
2,2,4-Trimethylpentane	500 ppb	475 ppb +/- 50 ppb	
Vinyl acetate	500 ppb	485 ppb +/- 50 ppb	
Vinyl bromide	500 ppb	491 ppb +/- 50 ppb	
Vinyl chloride	500 ppb	493 ppb +/- 50 ppb	
m-Xylene	500 ppb	479 ppb +/- 50 ppb	
o-Xylene	500 ppb	466 ppb +/- 50 ppb	
p-Xylene	500 ppb	473 ppb +/- 50 ppb	
2-Methyl Naphthalene	500 ppb	497 ppb +/- 50 ppb	
R-22	500 ppb	589 ppb +/- 50 ppb	
Nitrogen	balance	balance	

NOTES: Blend Tolerance: +/- 20 %
Analytical Tolerance: +/- 10 %
Traceability: NIST by weight set. NIST Traceability No MT001810.
Internal Standards by analysis
Reactive Mixtures: Analyzed twice with required agreement between analyses of 2%.
Required wait time between analyses of >7 days.
Caution: Do not use below 150 PSIG.

Analyst Name: Joseph A. Ernst

QA Signature: 

Signature:

Date: 07/16/2024



*Every effort has been made to establish the actual concentration of the components using master gas blending technology however, Custom Gas Solutions shall have no liability in excess of the established charge for this material.

Process Report

Order ID : Q1725

Date	Bottle ID	Lab Sample Number	InComing Vacuum	Canister ID	Can Size	Reg ID	Reg Size	Batch Code	Certification ID
04/07/2025	B2502051	Q1725-08	-7.1	10333	6 L	10523		C2501004	VL041966.D Seq :vl020325 TUNE : VL041957.D ICAL : VL041894.D CCAL : VL041958.D MB : VL041960.D
04/07/2025	B2502051	Q1725-06	-2.7	10596	6 L	10186		C2501004	VL041966.D Seq :vl020325 TUNE : VL041957.D ICAL : VL041894.D CCAL : VL041958.D MB : VL041960.D
04/07/2025	B2503044	Q1725-04	-1.4	10605	6 L	10520		C2503007	VL042182.D Seq :vl032725 TUNE : VL042171.D ICAL : VL042177.D CCAL : VL042172.D MB : VL042180.D
04/07/2025	B2503044	Q1725-02	-4.7	10321	6 L	10633		C2503003	VL042145.D Seq :VL031425 TUNE : VL042140.D ICAL : VL042046.D CCAL : VL042141.D MB : VL042142.D
04/07/2025	B2503044	Q1725-07	-7.1	10303	6 L	10536		C2503003	VL042145.D Seq :VL031425 TUNE : VL042140.D ICAL : VL042046.D CCAL : VL042141.D MB : VL042142.D
04/07/2025	B2503044	Q1725-03	-8.8	10296	6 L	10769		C2503003	VL042145.D Seq :VL031425 TUNE : VL042140.D ICAL : VL042046.D CCAL : VL042141.D MB : VL042142.D

Process Report

Order ID : Q1725

Date	Bottle ID	Lab Sample Number	InComing Vacuum	Canister ID	Can Size	Reg ID	Reg Size	Batch Code	Certification ID
04/07/2025	B2503044	Q1725-05	-5.9	10279	6 L	10695		C2503003	VL042145.D Seq :VL031425 TUNE : VL042140.D ICAL : VL042046.D CCAL : VL042141.D MB : VL042142.D
04/07/2025	B2503044	Q1725-01	-5.9	10153	6 L	10553		C2503003	VL042145.D Seq :VL031425 TUNE : VL042140.D ICAL : VL042046.D CCAL : VL042141.D MB : VL042142.D



Canister Cleaning

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

Canister Batch : C2501004

Type of Canister : 6 L

Cleaning Date : 01/28/2025

Analyst : SAM

Oven Temperature : 125.0 c

Canister	Vaccum After Cleaning ("Hg)	Vaccum After Cleaning Date	Analysis Date	VAC 24Hr ("Hg)	Vaccum After 24hr Date	New Sample Number	QC Canister	File
10596	-30	01/29/2025	02/03/2025	-30	01/30/2025	Q1725-06	10439	VL041966.D
10321	-30	01/29/2025	02/03/2025	-30	01/30/2025	Q1533-02	10439	VL041966.D
10296	-30	01/29/2025	02/03/2025	-30	01/30/2025	Q1533-01	10439	VL041966.D
10439	-30	01/29/2025	02/03/2025	-30	01/30/2025	Q1649-02	10439	VL041966.D
10282	-30	01/29/2025	02/03/2025	-30	01/30/2025	Q1669-08	10439	VL041966.D
10588	-30	01/29/2025	02/03/2025	-30	01/30/2025	Q1668-01	10439	VL041966.D
10333	-30	01/29/2025	02/03/2025	-30	01/30/2025	Q1725-08	10439	VL041966.D
10602	-30	01/29/2025	02/03/2025	-30	01/30/2025	Q1755-01	10439	VL041966.D



Canister Cleaning

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

Canister Batch : C2503003

Type of Canister : 6 L

Cleaning Date : 03/13/2025

Analyst : SAM

Oven Temperature : 125.0 c

Canister	Vaccum After Cleaning ("Hg)	Vaccum After Cleaning Date	Analysis Date	VAC 24Hr ("Hg)	Vaccum After 24hr Date	New Sample Number	QC Canister	File
10153	-30	03/14/2025	03/14/2025	-30	03/17/2025	Q1725-01	10266	VL042145.D
10321	-30	03/14/2025	03/14/2025	-30	03/17/2025	Q1725-02	10266	VL042145.D
10329	-30	03/14/2025	03/14/2025	-30	03/17/2025	Q1718-02	10266	VL042145.D
10266	-30	03/14/2025	03/14/2025	-30	03/17/2025	Q1665-15	10266	VL042145.D
10054	-30	03/14/2025	03/14/2025	-30	03/17/2025	Q1726-04	10266	VL042145.D
10303	-30	03/14/2025	03/14/2025	-30	03/17/2025	Q1725-07	10266	VL042145.D
10296	-30	03/14/2025	03/14/2025	-30	03/17/2025	Q1725-03	10266	VL042145.D
10279	-30	03/14/2025	03/14/2025	-30	03/17/2025	Q1725-05	10266	VL042145.D



Canister Cleaning

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

Canister Batch : C2503007

Type of Canister : 6 L

Cleaning Date : 03/26/2025

Analyst : SAM

Oven Temperature : 125.0 c

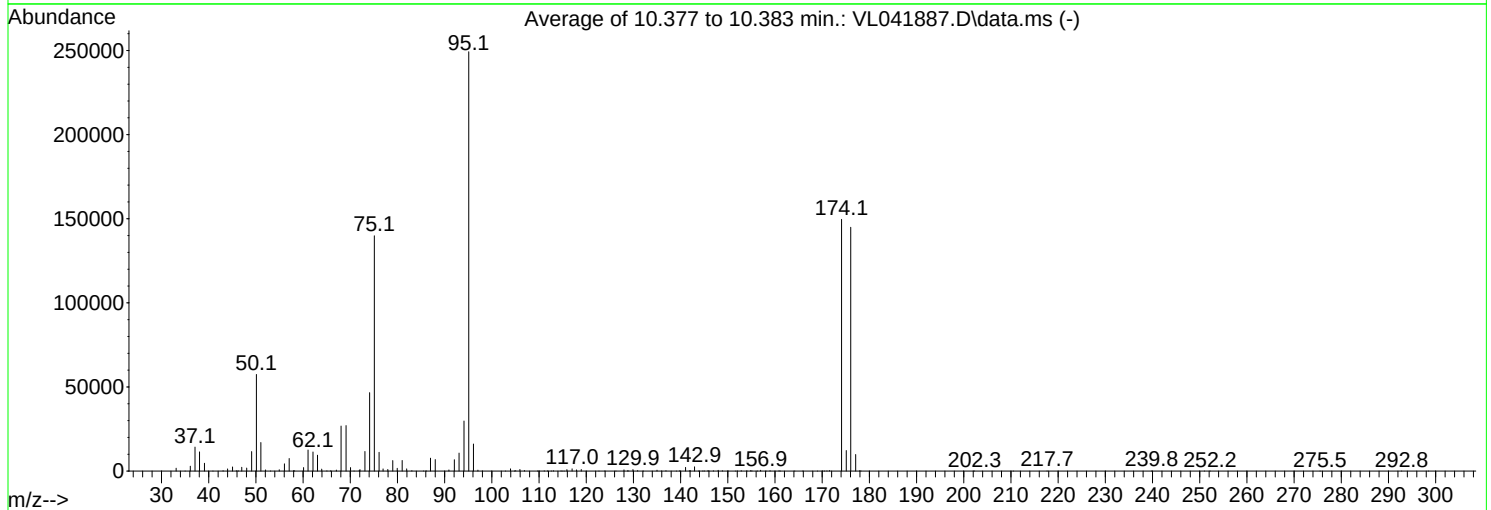
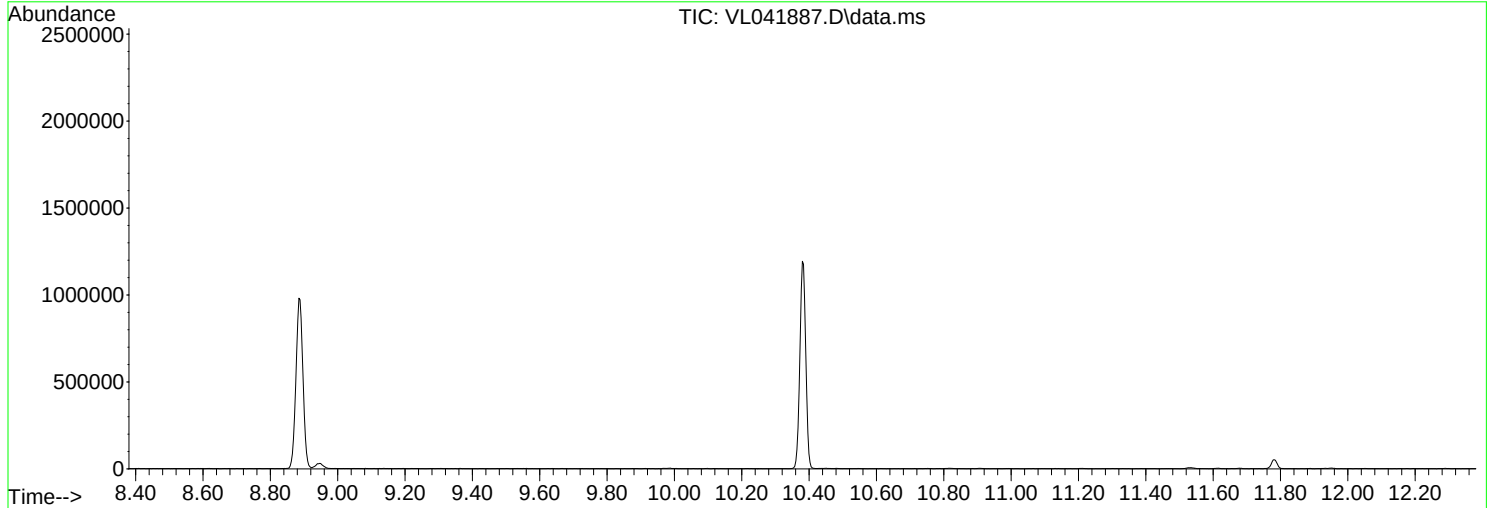
Canister	Vaccum After Cleaning ("Hg)	Vaccum After Cleaning Date	Analysis Date	VAC 24Hr ("Hg)	Vaccum After 24hr Date	New Sample Number	QC Canister	File
10609	-30	03/27/2025	03/27/2025	-30	03/28/2025	Q1718-03	10448	VL042182.D
10410	-30	03/27/2025	03/27/2025	-30	03/28/2025	Q1726-03	10448	VL042182.D
10448	-30	03/27/2025	03/27/2025	-30	03/28/2025	Q1726-07	10448	VL042182.D
10295	-30	03/27/2025	03/27/2025	-30	03/28/2025	Q1726-05	10448	VL042182.D
10590	-30	03/27/2025	03/27/2025	-30	03/28/2025	Q1726-06	10448	VL042182.D
10605	-30	03/27/2025	03/27/2025	-30	03/28/2025	Q1725-04	10448	VL042182.D

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

Instrument :
MSVOA_L
ClientSampleId :
BFB

Integration File: RTEINT.P

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



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

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

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

Method File : VL011425AIR.M

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

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

Response Via : Initial Calibration

Calibration Files

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

Compound		0.03	0.1	0.5	1	2	10	15	Avg	%RSD

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

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

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

(#) = Out of Range

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

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Manual Integrations
 APPROVED

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

Quant Time: Jan 14 21:20:11 2025

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

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

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

Response via : Initial Calibration

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

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

System Monitoring Compounds

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

Target Compounds

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

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

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Manual Integrations
 APPROVED

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

Quant Time: Jan 14 21:20:11 2025

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

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

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

Response via : Initial Calibration

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

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

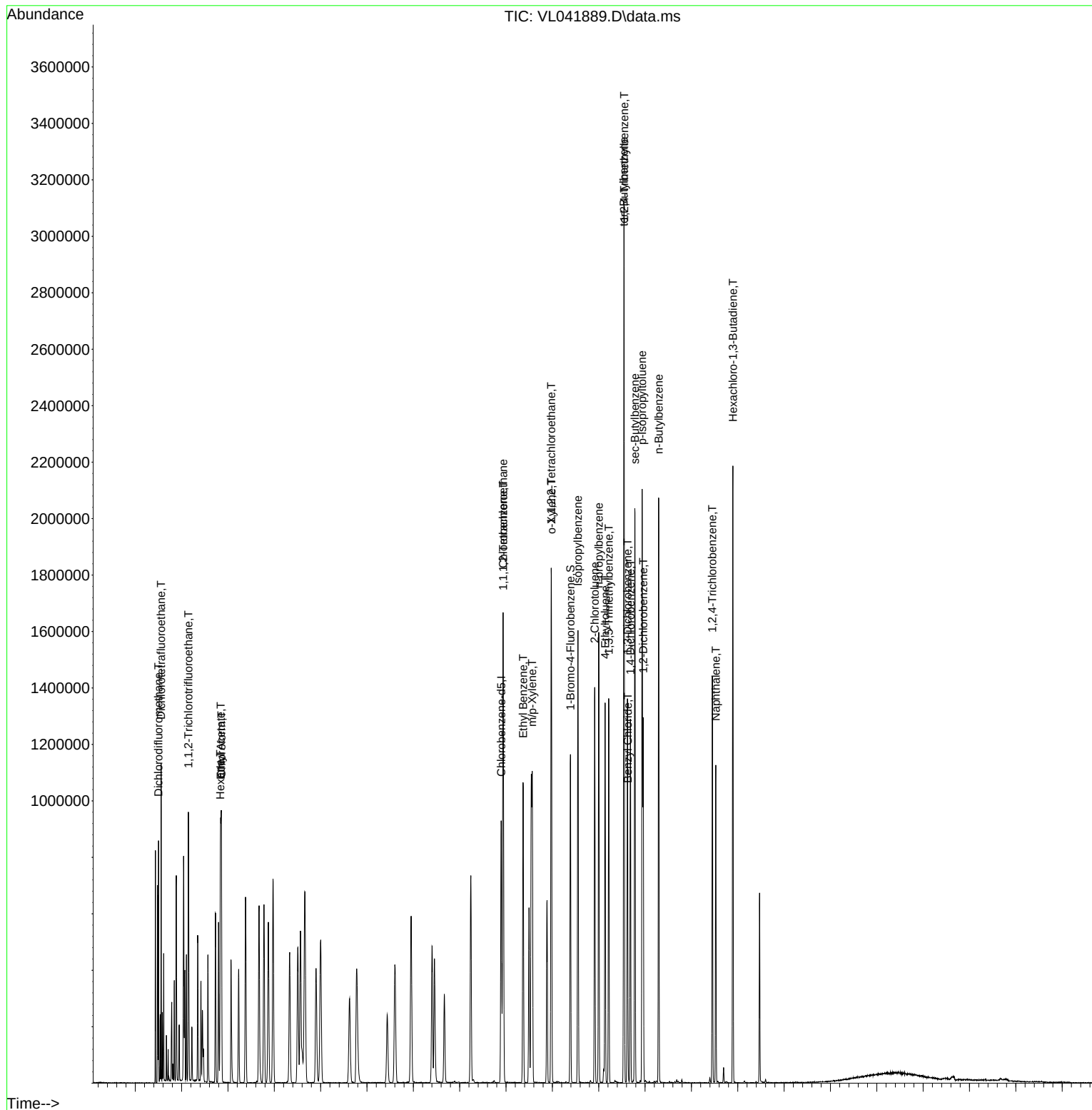
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
Data File : VL041889.D
Acq On : 14 Jan 2025 12:55
Operator : SY/MD
Sample : VSTDICCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations
APPROVED

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

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



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

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC002

Manual Integrations
 APPROVED

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

Quant Time: Jan 14 21:20:29 2025

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

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

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

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.797	49	150761	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.971	114	452131	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.894	117	394865	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.390 95 313784 10.089 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 100.900%

Target Compounds

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

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

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC002

Manual Integrations
 APPROVED

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

Quant Time: Jan 14 21:20:29 2025

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

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

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

Response via : Initial Calibration

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

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

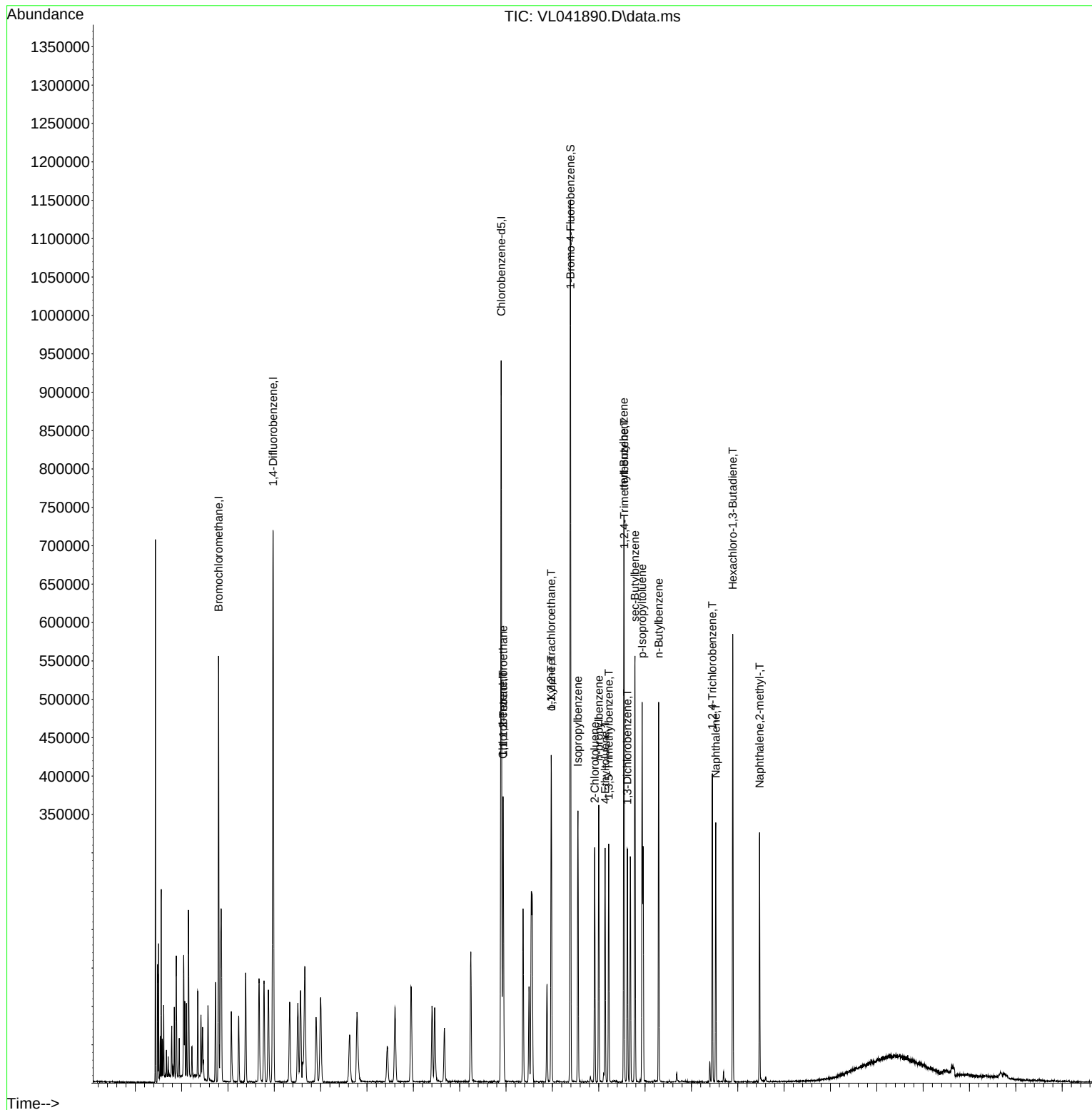
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
Data File : VL041890.D
Acq On : 14 Jan 2025 13:28
Operator : SY/MD
Sample : VSTDICC002
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

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

Manual Integrations
APPROVED

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



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

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC001

Manual Integrations
 APPROVED

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

Quant Time: Jan 14 21:20:45 2025

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

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

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

Response via : Initial Calibration

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

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

System Monitoring Compounds

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

Target Compounds

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

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

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC001

Manual Integrations
 APPROVED

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

Quant Time: Jan 14 21:20:45 2025

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

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

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

Response via : Initial Calibration

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

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

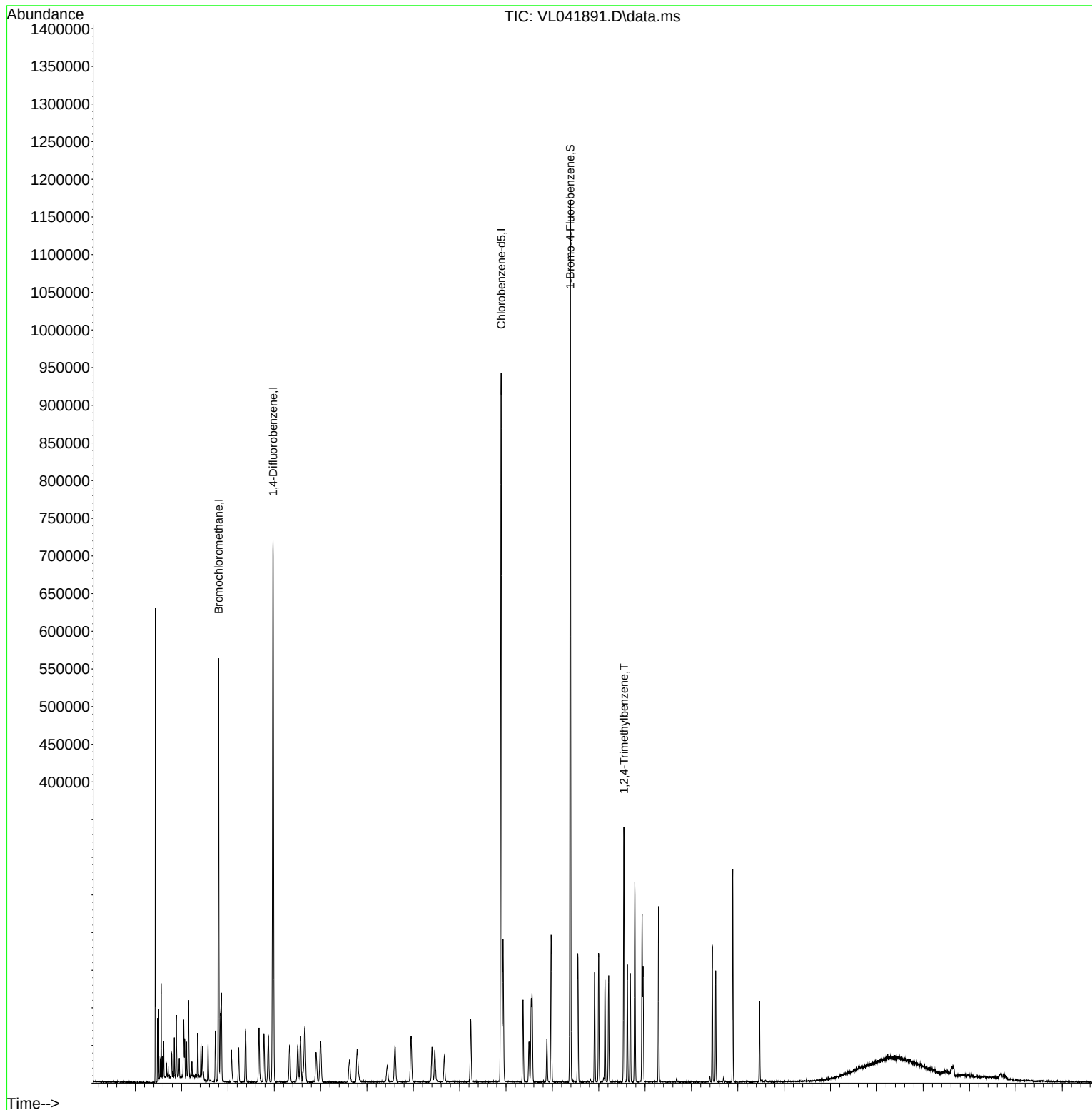
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
Data File : VL041891.D
Acq On : 14 Jan 2025 13:59
Operator : SY/MD
Sample : VSTDICC001
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

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

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



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

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC0.5

Manual Integrations
 APPROVED

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

Quant Time: Jan 14 21:21:01 2025

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

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

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

Response via : Initial Calibration

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

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

System Monitoring Compounds

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

Target Compounds

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

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

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC0.5

Manual Integrations
 APPROVED

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

Quant Time: Jan 14 21:21:01 2025

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

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

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

Response via : Initial Calibration

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

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

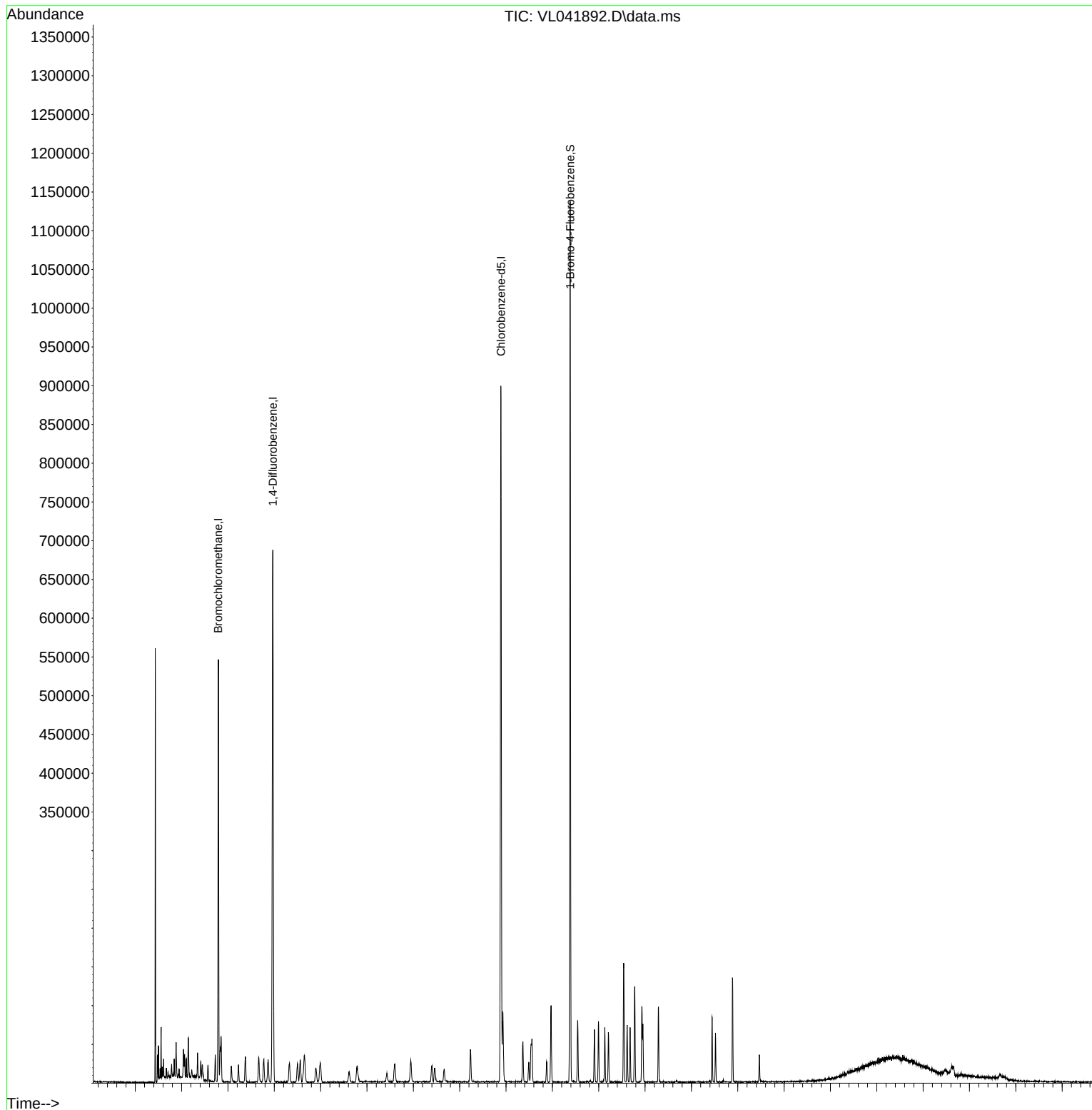
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
Data File : VL041892.D
Acq On : 14 Jan 2025 14:30
Operator : SY/MD
Sample : VSTDICC0.5
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations
APPROVED

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

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



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

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC0.1

Manual Integrations
 APPROVED

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

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

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

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

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

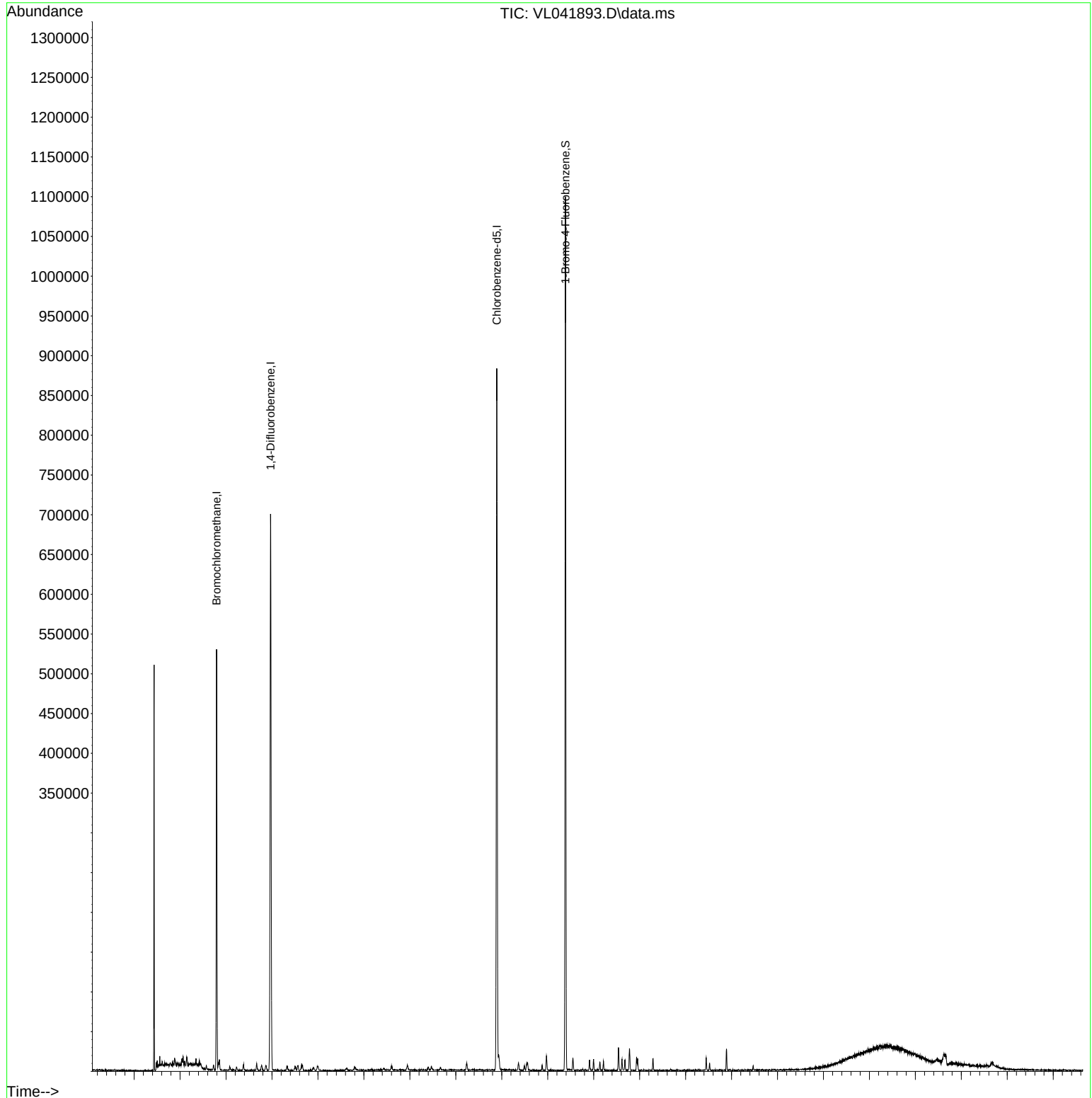
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
Data File : VL041893.D
Acq On : 14 Jan 2025 15:01
Operator : SY/MD
Sample : VSTDIC0.1
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.1

Manual Integrations
APPROVED

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

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



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

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC0.03

Manual Integrations
 APPROVED

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

Quant Time: Jan 14 21:21:32 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 2
 QLast Update : Tue Jan 14 16:31:18 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.793	49	141659	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.972	114	424686	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.891	117	367402	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.387	95	287792	9.945	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.500%
Target Compounds						
					Qvalue	
5) Vinyl Chloride	1.586	62	214m	0.029	ppbv	
32) 1,1,1-Trichloroethane	3.379	97	823	0.030	ppbv	85
35) Carbon Tetrachloride	3.774	117	771	0.029	ppbv #	56
38) Trichloroethene	4.557	130	364m	0.024	ppbv	
52) Tetrachloroethene	8.250	164	408m	0.030	ppbv	

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

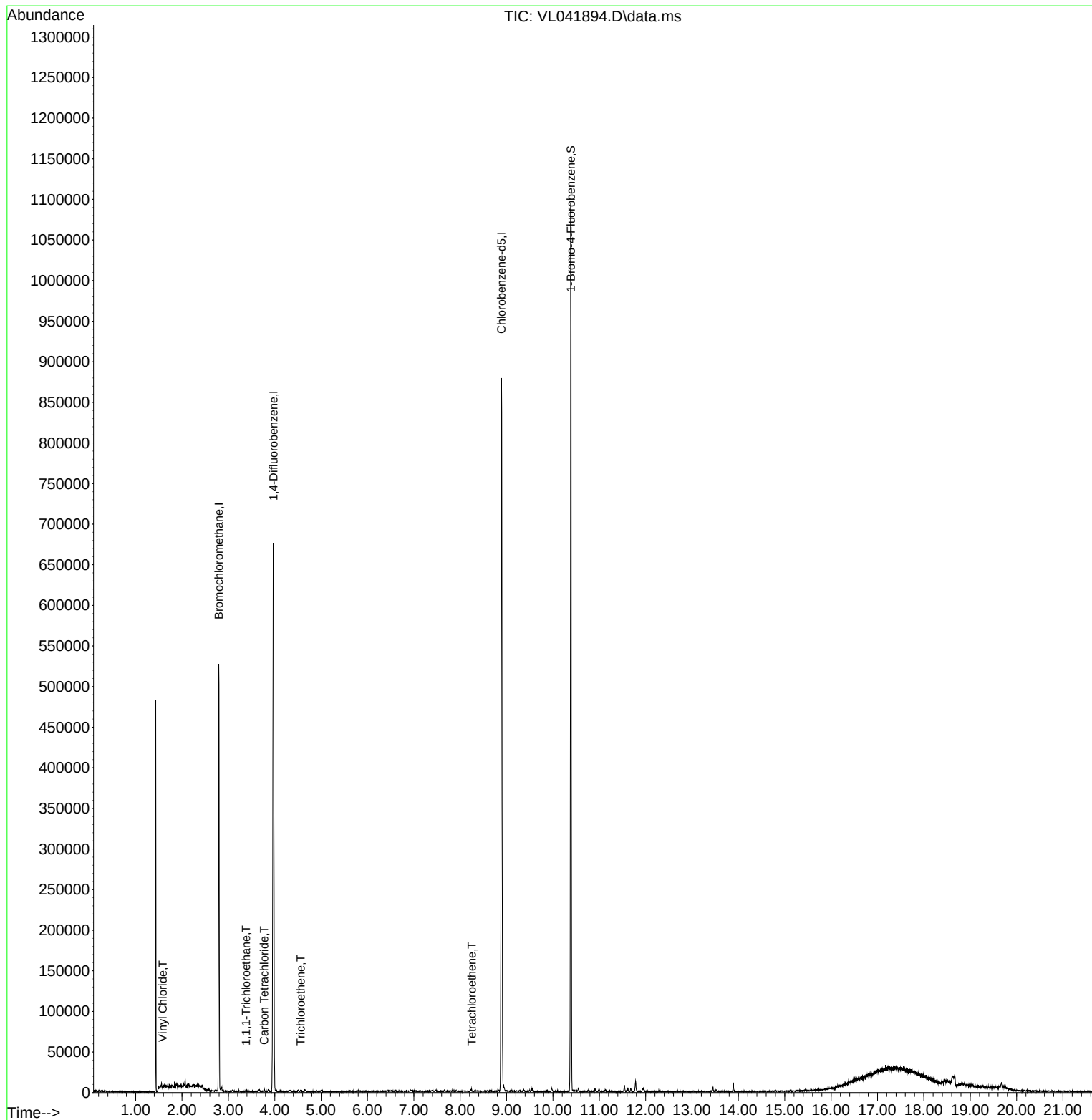
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
Data File : VL041894.D
Acq On : 14 Jan 2025 15:32
Operator : SY/MD
Sample : VSTDICC0.03
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Quant Time: Jan 14 21:21:32 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug
QLast Update : Tue Jan 14 16:31:18 2025
Response via : Initial Calibration

Manual Integrations
APPROVED

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



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

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC015

Manual Integrations
 APPROVED

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

Quant Time: Jan 14 21:21:42 2025

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

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

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

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.793	49	141652	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.968	114	419859	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.895	117	383799	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.387 95 304042 10.058 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 100.600%

Target Compounds

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

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

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Manual Integrations
 APPROVED

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

Quant Time: Jan 14 21:21:42 2025

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

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

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

Response via : Initial Calibration

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

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

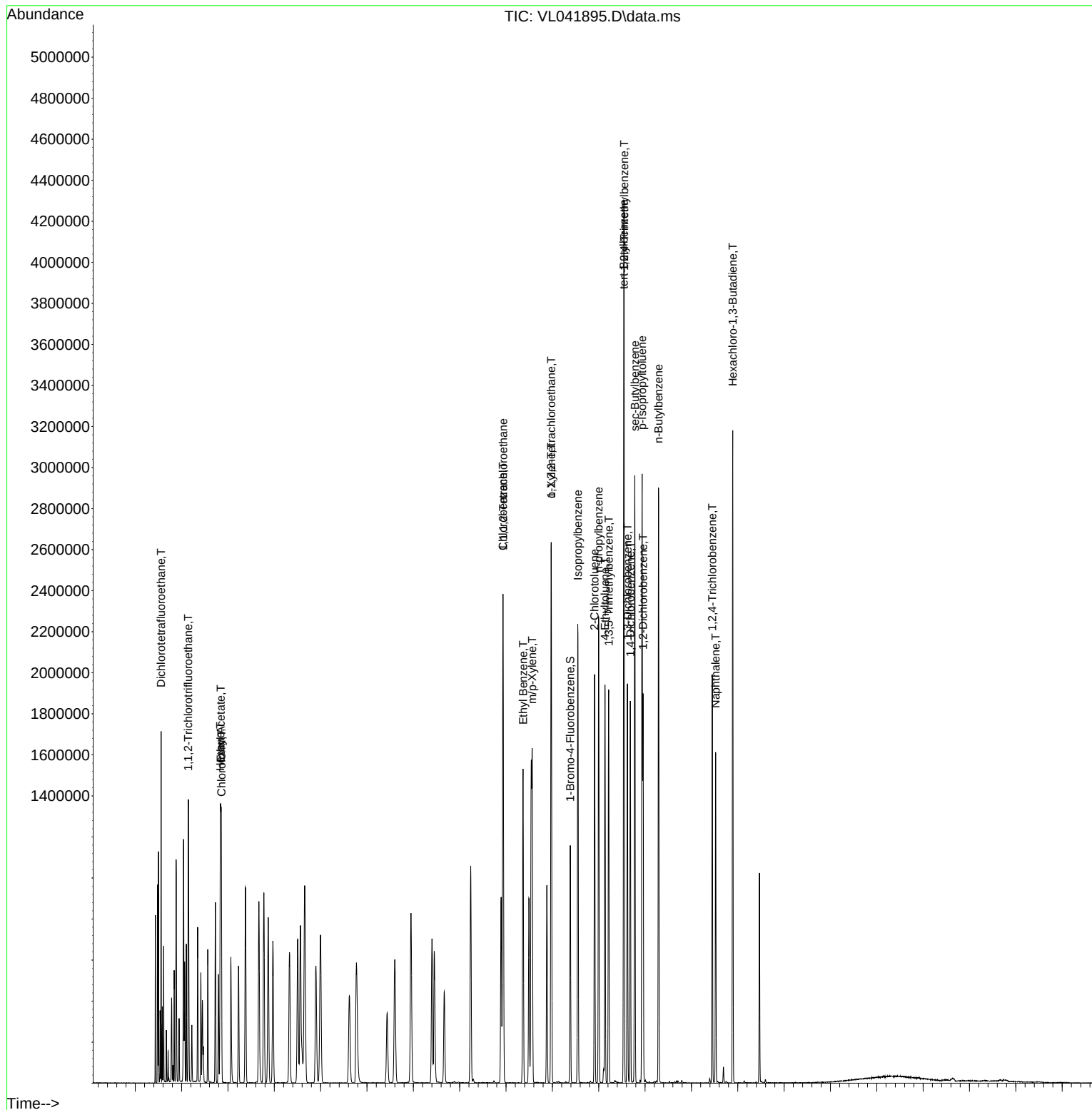
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
Data File : VL041895.D
Acq On : 14 Jan 2025 16:05
Operator : SY/MD
Sample : VSTDIC015
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Manual Integrations
APPROVED

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

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



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

Instrument :
 MSVOA_L
 ClientSampleId :
 ICSVVL011425

Manual Integrations
 APPROVED

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

Quant Time: Jan 15 03:23:15 2025

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

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

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

Response via : Initial Calibration

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

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

System Monitoring Compounds

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

Target Compounds

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

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

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL011425

Manual Integrations
 APPROVED

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

Quant Time: Jan 15 03:23:15 2025

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

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

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

Response via : Initial Calibration

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

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

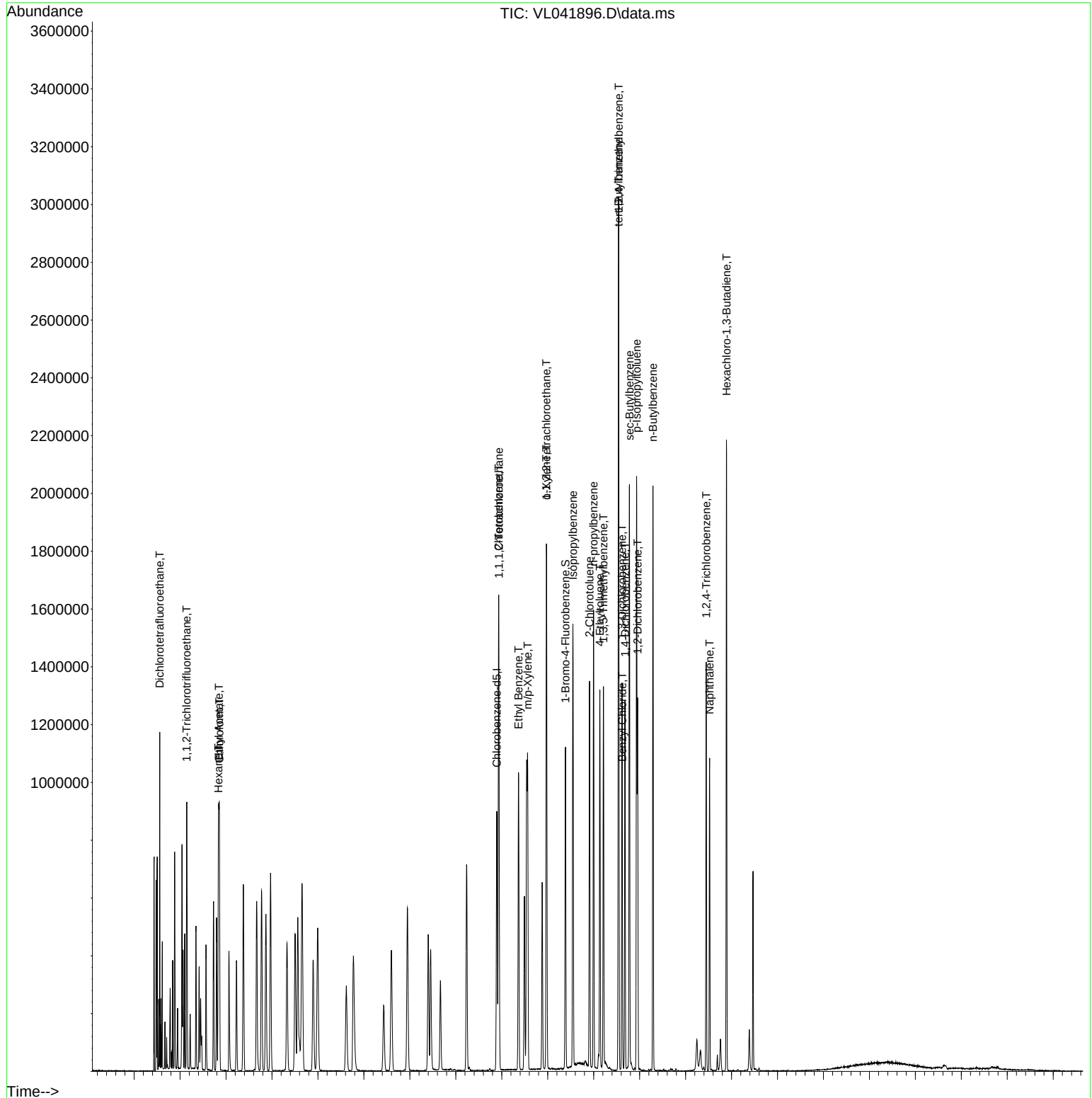
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
Data File : VL041896.D
Acq On : 14 Jan 2025 17:33
Operator : SY/MD
Sample : VSTDICV010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
ICVVL011425

Manual Integrations
APPROVED

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

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



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

Instrument :
 MSVOA_L
 ClientSampleId :
 ICSVVL011425

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

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

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

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

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL011425

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

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

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

(#) = Out of Range

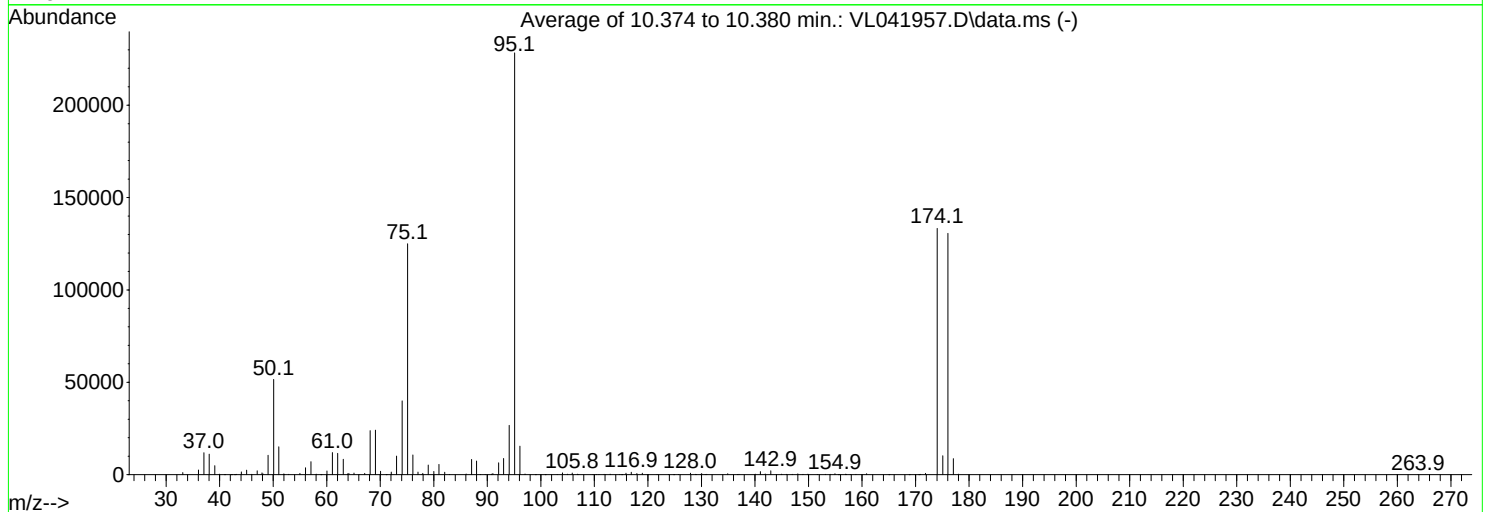
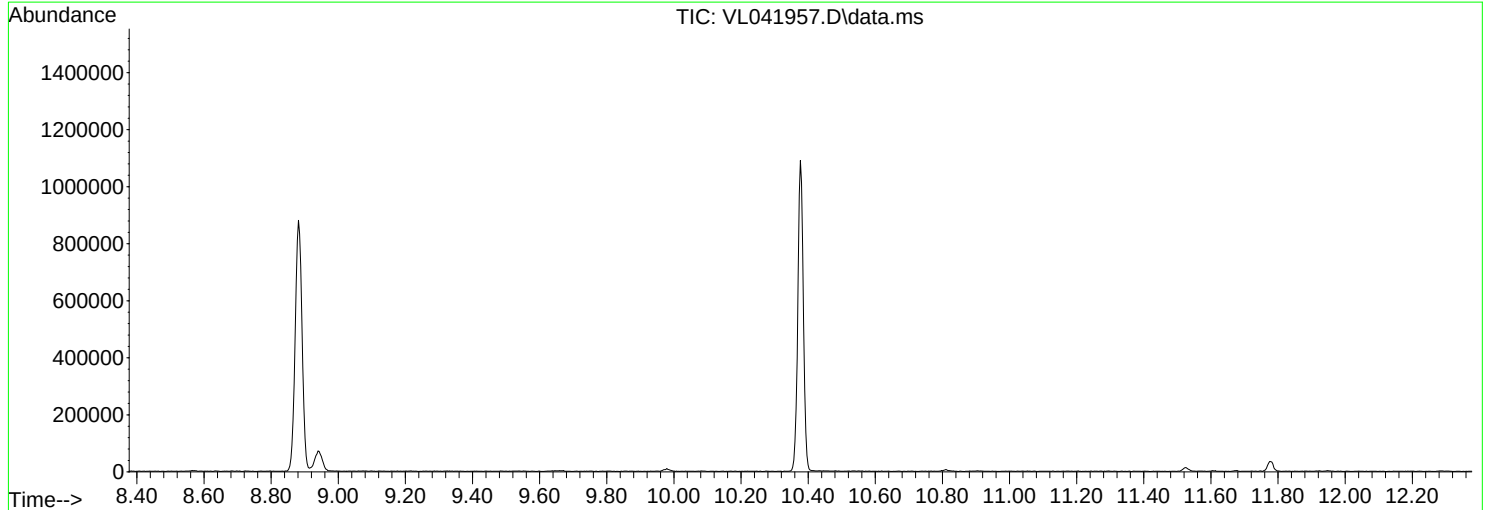
SPCC's out = 0 CCC's out = 0

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL020325\
Data File : VL041957.D
Acq On : 03 Feb 2025 09:47
Operator : SY/MD
Sample : BFB
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
BFB

Integration File: RTEINT.P

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



AutoFind: Scans 3178, 3179, 3180; Background Corrected with Scan 3165

Target	Rel. to	Lower	Upper	Rel.	Raw	Result
Mass	Mass	Limit%	Limit%	Abn%	Abn	Pass/Fail
50	95	8	40	22.6	51539	PASS
75	95	30	66	54.7	125019	PASS
95	95	100	100	100.0	228352	PASS
96	95	5	9	6.8	15439	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	58.4	133352	PASS
175	174	4	9	7.7	10244	PASS
176	174	93	101	98.0	130661	PASS
177	176	5	9	6.6	8641	PASS

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL020325\
 Data File : VL041958.D
 Acq On : 03 Feb 2025 10:48
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 02/04/2025
 Supervised By : Mahesh Dadoda 02/04/2025

Quant Time: Feb 04 02:30:31 2025

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

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

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

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.791	49	157470	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.962	114	429487	10.000	ppbv	-0.01
55) Chlorobenzene-d5	8.885	117	371333	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	10.381	95	289698	9.905	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.100%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.499	85	218366	10.181	ppbv	100
3) Chlorodifluoromethane	1.477	51	231387	10.298	ppbv	99
4) Chloromethane	1.535	50	86482	10.721	ppbv	97
5) Vinyl Chloride	1.580	62	83248	10.188	ppbv	98
6) Bromomethane	1.667	94	38248	9.822	ppbv	99
7) Chloroethane	1.706	64	34164	10.747	ppbv	99
8) Dichlorotetrafluoroethane	1.554	85	186350	9.941	ppbv	99
9) Propene	1.483	41	95902	10.361	ppbv	98
10) Heptane	4.985	43	266975	10.790	ppbv	97
11) Trichlorofluoromethane	1.878	101	212261	9.513	ppbv	97
12) 1,1,2-Trichlorotrifluo...	2.140	101	162930	9.317	ppbv	99
13) Ethanol	1.722	45	4416	6.513	ppbv	99
14) Bromoethene	1.784	108	60620	9.468	ppbv	100
15) Acetone	1.836	43	176459	9.330	ppbv	99
16) 1,3-Butadiene	1.609	39	86792	10.224	ppbv	99
17) tert-Butyl alcohol	2.043	59	206522	8.872	ppbv	99
18) 1,1-Dichloroethene	2.036	96	74437	9.444	ppbv	93
19) Isopropyl Alcohol	1.888	45	101008	9.007	ppbv	94
20) Methylene Chloride	2.062	84	62977	8.426	ppbv	95
21) Allyl Chloride	2.098	41	126741	9.677	ppbv	98
22) trans-1,2-Dichloroethene	2.344	96	86281	9.700	ppbv	97
23) Vinyl Acetate	2.467	43	84390	9.001	ppbv #	98
24) 1,1-Dichloroethane	2.412	63	171515	9.969	ppbv	100
25) Ethyl Acetate	2.839	43	552271	10.829	ppbv	100
26) Hexane	2.829	57	216097	10.713	ppbv	95
27) Carbon Disulfide	2.153	76	200432	10.041	ppbv	99
28) Methyl tert-Butyl Ether	2.444	73	149839	9.719	ppbv	100
29) Chloroform	2.852	83	333879	10.471	ppbv	100
30) Cyclohexane	3.862	84	183180	10.470	ppbv	98
31) cis-1,2-Dichloroethene	2.723	61	208686	9.825	ppbv	95
32) 1,1,1-Trichloroethane	3.370	97	318650	10.444	ppbv	99
34) 2-Butanone	2.561	43	312946	11.458	ppbv	99
35) Carbon Tetrachloride	3.765	117	320703	11.888	ppbv	99
36) Benzene	3.661	78	444350	11.280	ppbv	97
37) 1,2-Dichloroethane	3.221	62	241263	10.905	ppbv	99
38) Trichloroethene	4.551	130	175365	11.218	ppbv	90
39) 1,2-Dichloropropane	4.322	63	155514	11.255	ppbv	98
40) 1,4-Dioxane	4.590	88	74675	10.701	ppbv #	97
41) Tetrahydrofuran	3.059	42	174208	11.736	ppbv	98
42) Bromodichloromethane	4.496	83	344670	11.620	ppbv	96
43) Methyl Methacrylate	4.888	69	156216	10.675	ppbv	95
44) 2,2,4-Trimethylpentane	4.645	57	751181	11.790	ppbv	99
45) t-1,3-Dichloropropene	6.425	75	148089	10.811	ppbv	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL020325\
 Data File : VL041958.D
 Acq On : 03 Feb 2025 10:48
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 02/04/2025
 Supervised By : Mahesh Dadoda 02/04/2025

Quant Time: Feb 04 02:30:31 2025

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

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

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

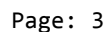
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.610	75	202762	11.274	ppbv	99
47) 1,1,2-Trichloroethane	6.590	97	167097	11.410	ppbv	98
48) Dibromochloromethane	7.393	129	269437	11.924	ppbv	99
49) Bromoform	9.487	173	225054	12.125	ppbv	100
50) 4-Methyl-2-Pentanone	5.762	43	428753	11.499	ppbv	98
51) 2-Hexanone	7.445	43	336693	11.752	ppbv #	96
52) Tetrachloroethene	8.231	164	139466	10.211	ppbv	95
53) Toluene	6.940	91	483814	11.275	ppbv	100
54) 1,2-Dibromoethane	7.659	107	229203	11.384	ppbv	97
56) 1,1,1,2-Tetrachloroethane	8.931	131	220185	11.885	ppbv	99
57) Chlorobenzene	8.927	112	386374	11.280	ppbv	98
58) Ethyl Benzene	9.358	91	669174	11.531	ppbv	97
59) m/p-Xylene	9.555	91	1106231m	23.782	ppbv	
60) o-Xylene	9.969	91	555194	12.025	ppbv	98
61) Styrene	9.876	104	246355	11.895	ppbv	99
62) Isopropylbenzene	10.542	105	834260	11.677	ppbv	99
63) 1,1,2,2-Tetrachloroethane	9.966	83	362310	12.280	ppbv	99
64) n-propylbenzene	10.992	120	215585	11.942	ppbv	98
65) tert-Butylbenzene	11.536	119	746398	11.464	ppbv	99
66) Benzyl Chloride	11.620	91	44973	11.160	ppbv	98
67) sec-Butylbenzene	11.772	105	1044912	11.655	ppbv	100
69) p-Isopropyltoluene	11.931	119	867909	11.756	ppbv	99
70) n-Butylbenzene	12.284	91	848499	11.589	ppbv	100
71) 2-Chlorotoluene	10.905	91	615388	11.644	ppbv	98
72) 4-Ethyltoluene	11.128	105	658660	11.926	ppbv	100
73) 1,3,5-Trimethylbenzene	11.209	105	566361	11.613	ppbv	96
74) 1,2,4-Trimethylbenzene	11.542	105	616177	11.666	ppbv	90
75) 1,3-Dichlorobenzene	11.614	146	357966	11.437	ppbv	99
76) 1,4-Dichlorobenzene	11.675	146	352145	11.500	ppbv	100
77) 1,2-Dichlorobenzene	11.950	146	355386	11.457	ppbv	100
78) Hexachloro-1,3-Butadiene	13.886	225	247691	9.729	ppbv	99
79) Naphthalene	13.517	128	553420	10.407	ppbv	99
80) Naphthalene,2-methyl-	14.465	142	173813	6.894	ppbv	97
81) 1,2,4-Trichlorobenzene	13.446	180	251038	9.671	ppbv	98

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

Manual Integrations APPROVED

Quant Time: Feb 04 02:30:31 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Tue Jan 14 23:15:42 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL020325\
 Data File : VL041958.D
 Acq On : 03 Feb 2025 10:48
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 LabSampleId :
 VSTDCCC010

Quant Time: Feb 04 02:30:31 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Tue Jan 14 23:15:42 2025
 Response via : Initial Calibration

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

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	Bromochloromethane	1.000	1.000	0.0	103	0.00
2 T	Dichlorodifluoromethane	1.362	1.387	-1.8	110	0.00
3	Chlorodifluoromethane	1.427	1.469	-2.9	114	0.00
4	Chloromethane	0.512	0.549	-7.2	115	0.00
5 T	Vinyl Chloride	0.519	0.529	-1.9	117	0.00
6 T	Bromomethane	0.247	0.243	1.6	110	0.00
7	Chloroethane	0.202	0.217	-7.4	116	0.00
8 T	Dichlorotetrafluoroethane	1.190	1.183	0.6	112	0.00
9 T	Propene	0.588	0.609	-3.6	111	0.00
10 T	Heptane	1.571	1.695	-7.9	115	-0.02
11 T	Trichlorofluoromethane	1.417	1.348	4.9	104	0.00
12 T	1,1,2-Trichlorotrifluoroeth	1.110	1.035	6.8	101	0.00
13	Ethanol	0.043	0.028#	34.9#	106	0.00
14 T	Bromoethene	0.407	0.385	5.4	107	0.00
15 T	Acetone	1.201	1.121	6.7	117	0.00
16 T	1,3-Butadiene	0.539	0.551	-2.2	115	0.00
17	tert-Butyl alcohol	1.478	1.312	11.2	97	0.00
18 T	1,1-Dichloroethene	0.501	0.473	5.6	107	0.00
19 T	Isopropyl Alcohol	0.712	0.641	10.0	107	0.00
20 T	Methylene Chloride	0.475	0.400	15.8	106	0.00
21 T	Allyl Chloride	0.832	0.805	3.2	105	0.00
22 T	trans-1,2-Dichloroethene	0.565	0.548	3.0	105	0.00
23 T	Vinyl Acetate	0.595	0.536	9.9	103	0.00
24 T	1,1-Dichloroethane	1.093	1.089	0.4	111	0.00
25 T	Ethyl Acetate	3.239	3.507	-8.3	117	0.00
26 T	Hexane	1.281	1.372	-7.1	113	0.00
27 T	Carbon Disulfide	1.268	1.273	-0.4	105	0.00
28 T	Methyl tert-Butyl Ether	0.979	0.952	2.8	127	0.00
29 T	Chloroform	2.025	2.120	-4.7	115	0.00
30 T	Cyclohexane	1.111	1.163	-4.7	111	0.00
31 T	cis-1,2-Dichloroethene	1.349	1.325	1.8	108	0.00
32 T	1,1,1-Trichloroethane	1.938	2.024	-4.4	110	0.00
33 I	1,4-Difluorobenzene	1.000	1.000	0.0	96	-0.01
34 T	2-Butanone	0.636	0.729	-14.6	116	0.00
35 T	Carbon Tetrachloride	0.628	0.747	-18.9	110	-0.01
36 T	Benzene	0.917	1.035	-12.9	112	0.00
37 T	1,2-Dichloroethane	0.515	0.562	-9.1	109	0.00
38 T	Trichloroethene	0.364	0.408	-12.1	110	-0.01
39 T	1,2-Dichloropropane	0.322	0.362	-12.4	113	0.00
40 T	1,4-Dioxane	0.162	0.174	-7.4	113	-0.02
41 T	Tetrahydrofuran	0.346	0.406	-17.3	112	0.00
42 T	Bromodichloromethane	0.691	0.803	-16.2	112	-0.01
43	Methyl Methacrylate	0.341	0.364	-6.7	103	0.00
44 T	2,2,4-Trimethylpentane	1.484	1.749	-17.9	115	-0.01
45 T	t-1,3-Dichloropropene	0.319	0.345	-8.2	97	0.00
46 T	cis-1,3-Dichloropropene	0.419	0.472	-12.6	101	-0.01
47 T	1,1,2-Trichloroethane	0.341	0.389	-14.1	112	0.00
48 T	Dibromochloromethane	0.526	0.627	-19.2	110	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL020325\
 Data File : VL041958.D
 Acq On : 03 Feb 2025 10:48
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 LabSampleId :
 VSTDCCC010

Quant Time: Feb 04 02:30:31 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Tue Jan 14 23:15:42 2025
 Response via : Initial Calibration

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

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
49 T	Bromoform	0.432	0.524	-21.3	109	0.00
50 T	4-Methyl-2-Pentanone	0.868	0.998	-15.0	115	-0.02
51 T	2-Hexanone	0.667	0.784	-17.5	115	0.00
52 T	Tetrachloroethene	0.318	0.325	-2.2	106	0.00
53 T	Toluene	0.999	1.126	-12.7	107	-0.01
54 T	1,2-Dibromoethane	0.469	0.534	-13.9	112	0.00
55 I	Chlorobenzene-d5	1.000	1.000	0.0	93	0.00
56	1,1,1,2-Tetrachloroethane	0.499	0.593	-18.8	114	0.00
57 T	Chlorobenzene	0.922	1.041	-12.9	114	0.00
58 T	Ethyl Benzene	1.563	1.802	-15.3	108	0.00
59 T	m/p-Xylene	1.253	1.490	-18.9	113	0.00
60 T	o-Xylene	1.243	1.495	-20.3	113	0.00
61 T	Styrene	0.558	0.663	-18.8	105	0.00
62	Isopropylbenzene	1.924	2.247	-16.8	112	0.00
63 T	1,1,2,2-Tetrachloroethane	0.795	0.976	-22.8	121	0.00
64	n-propylbenzene	0.486	0.581	-19.5	115	0.00
65	tert-Butylbenzene	1.753	2.010	-14.7	111	0.00
66 T	Benzyl Chloride	0.109	0.121	-11.0	98	0.00
67	sec-Butylbenzene	2.414	2.814	-16.6	114	0.00
68 S	1-Bromo-4-Fluorobenzene	0.788	0.780	1.0	92	0.00
69	p-Isopropyltoluene	1.988	2.337	-17.6	113	0.00
70	n-Butylbenzene	1.972	2.285	-15.9	112	0.00
71	2-Chlorotoluene	1.423	1.657	-16.4	111	0.00
72 T	4-Ethyltoluene	1.487	1.774	-19.3	112	0.00
73 T	1,3,5-Trimethylbenzene	1.313	1.525	-16.1	112	0.00
74 T	1,2,4-Trimethylbenzene	1.422	1.659	-16.7	114	0.00
75 T	1,3-Dichlorobenzene	0.843	0.964	-14.4	115	0.00
76 T	1,4-Dichlorobenzene	0.825	0.948	-14.9	114	0.00
77 T	1,2-Dichlorobenzene	0.835	0.957	-14.6	117	0.00
78 T	Hexachloro-1,3-Butadiene	0.686	0.667	2.8	106	0.00
79 T	Naphthalene	1.432	1.490	-4.1	110	0.00
80 T	Naphthalene,2-methyl-	0.679	0.468	31.1#	94	0.00
81 T	1,2,4-Trichlorobenzene	0.699	0.676	3.3	105	0.00

(#) = Out of Range

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL020325\
 Data File : VL041960.D
 Acq On : 03 Feb 2025 12:05
 Operator : SY/MD
 Sample : VL0203ABL02
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0203ABL02

Quant Time: Feb 04 02:33:07 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Tue Jan 14 23:15:42 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.790	49	151198	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.965	114	407814	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.888	117	347345	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.380	95	262058	9.579	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	95.800%

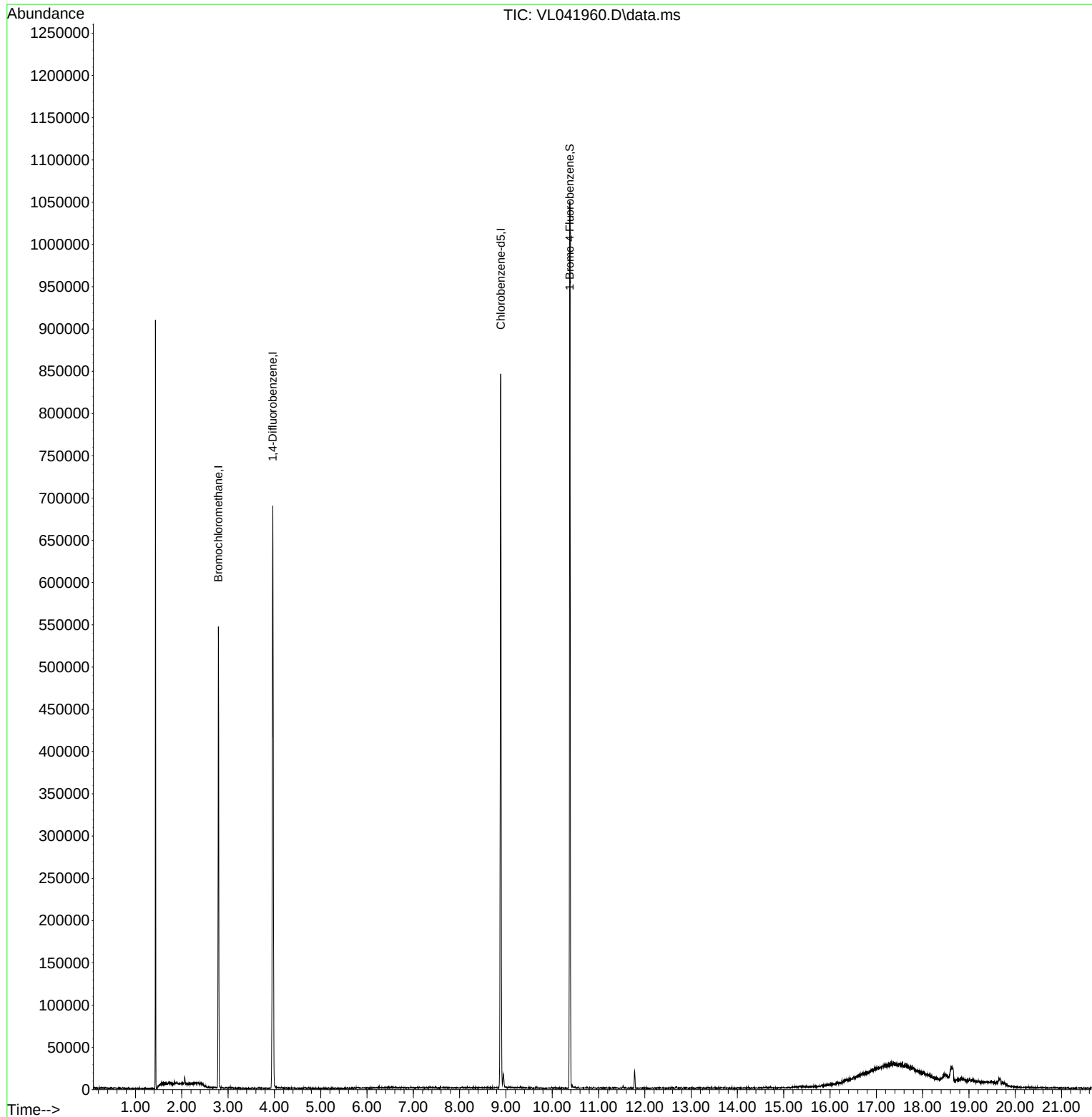
Target Compounds	Qvalue

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL020325\
Data File : VL041960.D
Acq On : 03 Feb 2025 12:05
Operator : SY/MD
Sample : VL0203ABL02
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VL0203ABL02

Quant Time: Feb 04 02:33:07 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Tue Jan 14 23:15:42 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL020325\
 Data File : VL041961.D
 Acq On : 03 Feb 2025 12:57
 Operator : SY/MD
 Sample : VL0203ABS01
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0203ABS01

Quant Time: Feb 04 02:34:05 2025

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

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

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

Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 02/04/2025
 Supervised By : Mahesh Dadoda 02/04/2025

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

Internal Standards						
1) Bromochloromethane	2.790	49	152847	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.965	114	418895	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.882	117	367437	10.000	ppbv	-0.01

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.380 95 287209 9.924 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 99.200%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.499	85	203280	9.764	ppbv	99
3) Chlorodifluoromethane	1.476	51	225433	10.336	ppbv	99
4) Chloromethane	1.535	50	81880	10.457	ppbv	94
5) Vinyl Chloride	1.583	62	77713	9.799	ppbv	98
6) Bromomethane	1.670	94	36640	9.694	ppbv	88
7) Chloroethane	1.706	64	31280	10.137	ppbv	94
8) Dichlorotetrafluoroethane	1.557	85	179670	9.875	ppbv	98
9) Propene	1.486	41	91411	10.174	ppbv	99
10) Heptane	4.985	43	161638	6.731	ppbv	99
11) Trichlorofluoromethane	1.881	101	201683	9.312	ppbv	96
12) 1,1,2-Trichlorotrifluo...	2.143	101	164938	9.717	ppbv	98
13) Ethanol	1.722	45	4592	6.978	ppbv	91
14) Bromoethene	1.784	108	57833	9.306	ppbv	99
15) Acetone	1.839	43	165826	9.033	ppbv	98
16) 1,3-Butadiene	1.609	39	83163	10.093	ppbv	98
17) tert-Butyl alcohol	2.043	59	198776	8.797	ppbv	98
18) 1,1-Dichloroethene	2.036	96	70323	9.192	ppbv	97
19) Isopropyl Alcohol	1.891	45	99004	9.096	ppbv	95
20) Methylene Chloride	2.065	84	62278	8.584	ppbv	99
21) Allyl Chloride	2.098	41	122853	9.664	ppbv	98
22) trans-1,2-Dichloroethene	2.344	96	85089	9.855	ppbv	98
23) Vinyl Acetate	2.467	43	86919	9.552	ppbv #	96
24) 1,1-Dichloroethane	2.412	63	166034	9.942	ppbv	99
25) Ethyl Acetate	2.842	43	536156	10.831	ppbv	100
26) Hexane	2.832	57	210051	10.728	ppbv	95
27) Carbon Disulfide	2.153	76	198444	10.242	ppbv	99
28) Methyl tert-Butyl Ether	2.444	73	110198	7.364	ppbv	99
29) Chloroform	2.855	83	325966	10.532	ppbv	96
30) Cyclohexane	3.865	84	173840	10.236	ppbv	98
31) cis-1,2-Dichloroethene	2.726	61	204611	9.925	ppbv	95
32) 1,1,1-Trichloroethane	3.376	97	305623	10.320	ppbv	99
34) 2-Butanone	2.564	43	302190	11.344	ppbv	99
35) Carbon Tetrachloride	3.768	117	309917	11.778	ppbv	97
36) Benzene	3.664	78	426241	11.094	ppbv	99
37) 1,2-Dichloroethane	3.224	62	235620	10.920	ppbv	99
38) Trichloroethene	4.554	130	167629	10.995	ppbv	97
39) 1,2-Dichloropropane	4.318	63	151232	11.221	ppbv	97
40) 1,4-Dioxane	4.590	88	74021	10.876	ppbv #	100
41) Tetrahydrofuran	3.062	42	169798	11.728	ppbv	98
42) Bromodichloromethane	4.496	83	335595	11.600	ppbv	98
43) Methyl Methacrylate	4.884	69	102724	7.197	ppbv	96
44) 2,2,4-Trimethylpentane	4.648	57	725196	11.670	ppbv	99
45) t-1,3-Dichloropropene	6.422	75	145441	10.886	ppbv	94

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL020325\
 Data File : VL041961.D
 Acq On : 03 Feb 2025 12:57
 Operator : SY/MD
 Sample : VL0203ABS01
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0203ABS01

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 02/04/2025
 Supervised By :Mahesh Dadoda 02/04/2025

Quant Time: Feb 04 02:34:05 2025

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

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

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

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.609	75	122518	6.985	ppbv	98
47) 1,1,2-Trichloroethane	6.590	97	167038	11.694	ppbv	95
48) Dibromochloromethane	7.390	129	260120	11.803	ppbv	100
49) Bromoform	9.487	173	217089	11.991	ppbv	99
50) 4-Methyl-2-Pentanone	5.765	43	267280	7.350	ppbv	98
51) 2-Hexanone	7.445	43	328817	11.767	ppbv #	96
52) Tetrachloroethene	8.225	164	136143	10.220	ppbv	97
53) Toluene	6.936	91	469033	11.207	ppbv	99
54) 1,2-Dibromoethane	7.655	107	222983	11.356	ppbv	100
56) 1,1,1,2-Tetrachloroethane	8.927	131	214758	11.715	ppbv	99
57) Chlorobenzene	8.924	112	382465	11.284	ppbv	99
58) Ethyl Benzene	9.357	91	646825	11.264	ppbv	98
59) m/p-Xylene	9.555	91	1068374m	23.212	ppbv	
60) o-Xylene	9.966	91	537558	11.766	ppbv	98
61) Styrene	9.872	104	239767	11.699	ppbv	98
62) Isopropylbenzene	10.542	105	802003	11.345	ppbv	99
63) 1,1,2,2-Tetrachloroethane	9.966	83	357905	12.260	ppbv	100
64) n-propylbenzene	10.992	120	208748	11.686	ppbv	99
65) tert-Butylbenzene	11.536	119	731901	11.360	ppbv	99
66) Benzyl Chloride	11.620	91	41013	10.285	ppbv	97
67) sec-Butylbenzene	11.772	105	1015579	11.448	ppbv	99
69) p-Isopropyltoluene	11.931	119	836492	11.451	ppbv	98
70) n-Butylbenzene	12.290	91	824000	11.374	ppbv	100
71) 2-Chlorotoluene	10.905	91	592446	11.329	ppbv	99
72) 4-Ethyltoluene	11.131	105	634050	11.602	ppbv	99
73) 1,3,5-Trimethylbenzene	11.209	105	551677	11.432	ppbv	97
74) 1,2,4-Trimethylbenzene	11.542	105	602744	11.533	ppbv	96
75) 1,3-Dichlorobenzene	11.613	146	348392	11.249	ppbv	99
76) 1,4-Dichlorobenzene	11.678	146	344428	11.367	ppbv	99
77) 1,2-Dichlorobenzene	11.953	146	350456	11.418	ppbv	98
78) Hexachloro-1,3-Butadiene	13.892	225	239328	9.500	ppbv	99
79) Naphthalene	13.523	128	539332	10.249	ppbv	98
80) Naphthalene,2-methyl-	14.468	142	172189	6.902	ppbv	97
81) 1,2,4-Trichlorobenzene	13.452	180	244059	9.502	ppbv	99

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL020325\
 Data File : VL041966.D
 Acq On : 03 Feb 2025 16:02
 Operator : SY/MD
 Sample : QC012825 CAN 10439
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 QC012825 CAN 10439

Quant Time: Feb 04 02:38:09 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Tue Jan 14 23:15:42 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.793	49	146182	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.968	114	402503	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.891	117	341049	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.383	95	256800	9.560	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	95.600%

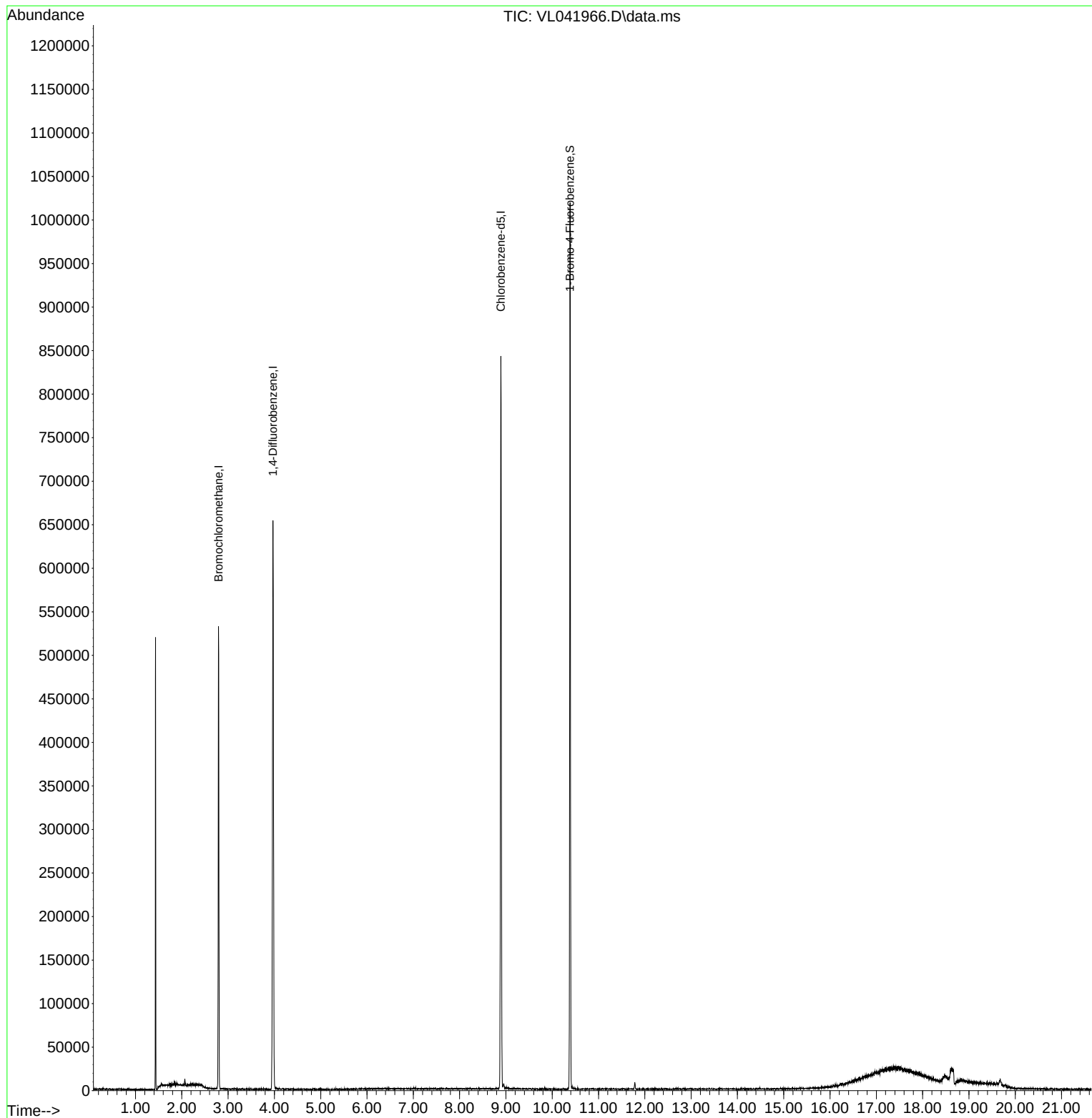
Target Compounds	Qvalue

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL020325\
Data File : VL041966.D
Acq On : 03 Feb 2025 16:02
Operator : SY/MD
Sample : QC012825 CAN 10439
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
QC012825 CAN 10439

Quant Time: Feb 04 02:38:09 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Tue Jan 14 23:15:42 2025
Response via : Initial Calibration

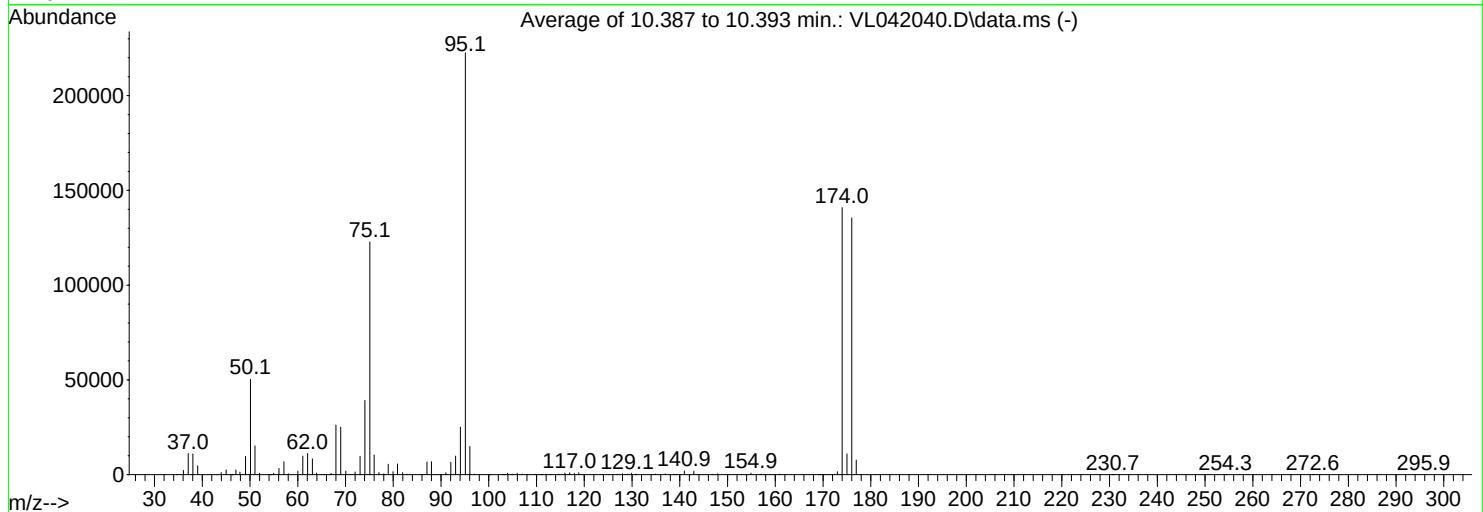
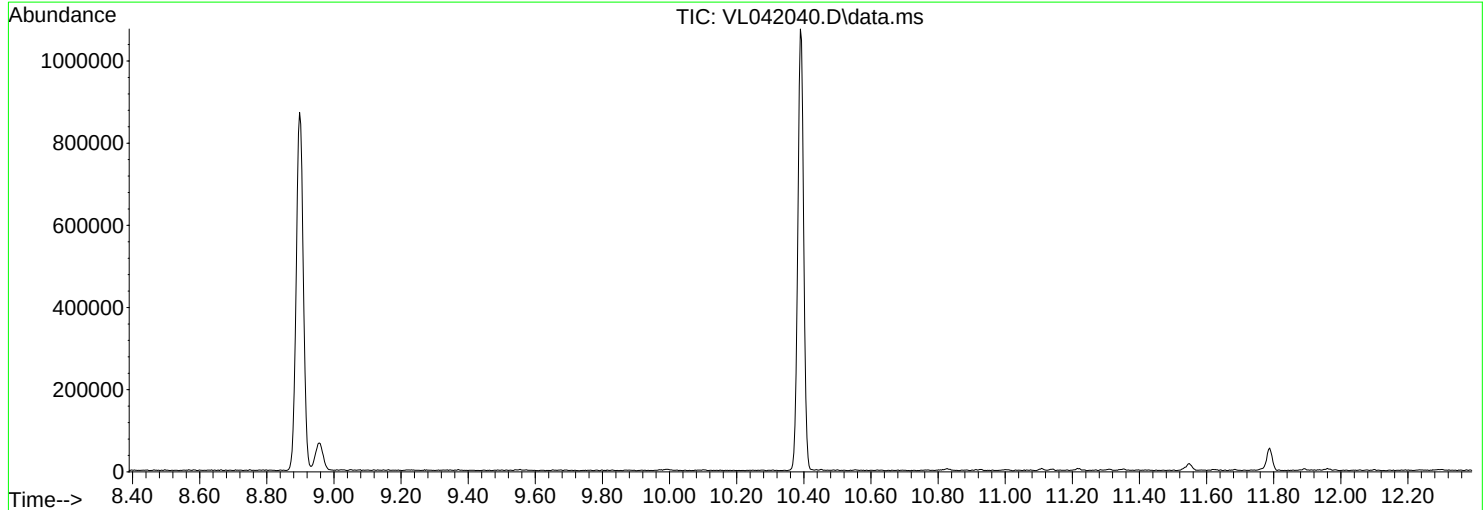


Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022525\
Data File : VL042040.D
Acq On : 25 Feb 2025 07:56
Operator : SY/MD
Sample : BFB
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
Last Update : Wed Feb 26 01:08:36 2025



AutoFind: Scans 3182, 3183, 3184; Background Corrected with Scan 3168

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	22.6	50320	PASS
75	95	30	66	55.2	122859	PASS
95	95	100	100	100.0	222571	PASS
96	95	5	9	6.7	14875	PASS
173	174	0.00	2	1.1	1534	PASS
174	95	50	120	63.3	140957	PASS
175	174	4	9	7.8	11014	PASS
176	174	93	101	96.1	135437	PASS
177	176	5	9	5.7	7676	PASS

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

Method File : VL022525AIR.M

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

Last Update : Wed Feb 26 01:08:36 2025

Response Via : Initial Calibration

Calibration Files

0.03=VL042046.D 0.1 =VL042045.D 0.5 =VL042044.D 1 =VL042043.D 2 =VL042042.D 10 =VL042041.D 15 =VL042047.D

Compound	0.03	0.1	0.5	1	2	10	15	Avg	%RSD

1) I Bromochloromethane	-----ISTD-----								
2) T Dichlorodifluo...			1.109	1.084	1.091	0.943	0.973	1.040	7.31
3) Chlorodifluoro...			1.493	1.566	1.535	1.311	1.362	1.453	7.67
4) Chloromethane			0.438	0.398	0.399	0.344	0.344	0.385	10.53
5) T Vinyl Chloride	0.447	0.336	0.376	0.346	0.361	0.337	0.343	0.364	10.89
6) T Bromomethane			0.170	0.184	0.186	0.160	0.165	0.173	6.63
7) Chloroethane			0.151	0.158	0.156	0.135	0.140	0.148	6.83
8) T Dichlorotetra...			0.892	0.910	0.901	0.779	0.791	0.855	7.47
9) T Propene			0.614	0.630	0.636	0.522	0.558	0.592	8.47
10) T Heptane			1.971	1.946	1.960	1.662	1.679	1.844	8.59
11) T Trichlorofluor...			1.056	1.122	1.119	0.944	0.968	1.042	7.98
12) T 1,1,2-Trichlor...			0.919	0.902	0.865	0.697	0.773	0.831	11.28
13) Ethanol			0.053	0.057	0.040	0.020	0.018	0.038#	48.50
14) T Bromoethene			0.325	0.304	0.299	0.264	0.275	0.293	8.41
15) T Acetone			1.084	0.960	0.933	0.714	0.723	0.883	18.17
16) T 1,3-Butadiene			0.476	0.435	0.418	0.358	0.367	0.411	11.96
17) tert-Butyl alc...			1.184	1.185	1.201	0.950	1.004	1.105	10.71
18) T 1,1-Dichloroet...			0.398	0.437	0.386	0.320	0.338	0.376	12.57
19) T Isopropyl Alcohol			0.561	0.571	0.557	0.419	0.429	0.507	15.06
20) T Methylene Chlo...			0.429	0.374	0.329	0.261	0.278	0.334	20.72
21) T Allyl Chloride			0.707	0.717	0.639	0.538	0.590	0.638	11.94
22) T trans-1,2-Dich...			0.481	0.506	0.450	0.358	0.395	0.438	13.90
23) T Vinyl Acetate			0.689	0.614	0.695	0.520	0.586	0.621	11.82
24) T 1,1-Dichloroet...			0.927	0.856	0.863	0.669	0.758	0.815	12.42
25) T Ethyl Acetate			3.833	3.674	3.776	3.174	3.217	3.535	8.91
26) T Hexane			1.596	1.462	1.519	1.282	1.287	1.429	9.83
27) T Carbon Disulfide			1.042	0.972	1.032	0.856	0.942	0.969	7.78
28) T Methyl tert-Bu...			0.650	0.844	0.838	0.522	0.705	0.711	19.02
29) T Chloroform			2.165	2.044	1.971	1.722	1.716	1.923	10.36
30) T Cyclohexane			1.154	1.239	1.255	1.076	1.076	1.160	7.39
31) T cis-1,2-Dichlo...			1.421	1.401	1.450	1.237	1.255	1.353	7.33
32) T 1,1,1-Trichlor...	1.921	1.875	1.883	1.916	1.944	1.771	1.751	1.866	4.05

33) I 1,4-Difluorobenzene	-----ISTD-----								
34) T 2-Butanone			0.833	0.799	0.812	0.692	0.759	0.779	7.15
35) T Carbon Tetrach...	0.664	0.705	0.675	0.723	0.725	0.655	0.681	0.690	4.09
36) T Benzene			1.079	1.084	1.104	0.969	0.999	1.047	5.66
37) T 1,2-Dichloroet...			0.624	0.604	0.598	0.520	0.556	0.580	7.20
38) T Trichloroethene	0.447	0.462	0.433	0.447	0.447	0.378	0.379	0.427	8.06
39) T 1,2-Dichloropr...			0.421	0.415	0.414	0.357	0.379	0.397	7.02

Method Path : Z:\voasrv\HPCHEM1\MSVOA_L\methods\ Method File : VL022525AIR.M											
40)	T	1,4-Dioxane			0.192	0.196	0.181	0.164	0.173	0.181	7.31
41)	T	Tetrahydrofuran			0.469	0.492	0.473	0.418	0.450	0.460	6.04
42)	T	Bromodichlorom...			0.806	0.791	0.810	0.739	0.765	0.782	3.81
43)		Methyl Methacr...			0.400	0.418	0.426	0.392	0.409	0.409	3.35
44)	T	2,2,4-Trimethy...			1.928	1.935	1.955	1.670	1.750	1.848	6.99
45)	T	t-1,3-Dichloro...			0.414	0.392	0.418	0.393	0.414	0.406	3.12
46)	T	cis-1,3-Dichlo...			0.514	0.523	0.548	0.516	0.526	0.526	2.59
47)	T	1,1,2-Trichlor...			0.426	0.429	0.426	0.361	0.375	0.403	8.12
48)	T	Dibromochlorom...			0.618	0.667	0.667	0.594	0.613	0.632	5.25
49)	T	Bromoform			0.553	0.551	0.588	0.525	0.526	0.549	4.68
50)	T	4-Methyl-2-Pen...			0.996	0.974	0.975	1.014	1.079	1.008	4.27
51)	T	2-Hexanone			0.577	0.570	0.608	0.834	0.879	0.693	21.69
52)	T	Tetrachloroethene	0.322	0.374	0.380	0.383	0.385	0.327	0.337	0.358	7.88
53)	T	Toluene			1.150	1.210	1.284	1.088	1.118	1.170	6.67
54)	T	1,2-Dibromoethane		0.563	0.556	0.553	0.586	0.500	0.514	0.545	5.87
-----ISTD-----											
55)	I	Chlorobenzene-d5									
56)		1,1,1,2-Tetrac...			0.607	0.596	0.595	0.505	0.524	0.565	8.37
57)	T	Chlorobenzene			1.102	1.113	1.121	0.910	0.938	1.037	10.02
58)	T	Ethyl Benzene			1.886	1.906	1.974	1.694	1.749	1.842	6.31
59)	T	m/p-Xylene			1.488	1.550	1.580	1.330	1.380	1.466	7.35
60)	T	o-Xylene			1.572	1.550	1.577	1.317	1.351	1.473	8.68
61)	T	Styrene			0.659	0.719	0.738	0.658	0.690	0.693	5.18
62)		Isopropylbenzene			2.299	2.339	2.399	1.969	2.026	2.207	8.84
63)	T	1,1,2,2-Tetrac...	0.999	0.975	1.026	1.041	1.031	0.848	0.872	0.970	8.13
64)		n-propylbenzene			0.596	0.607	0.632	0.524	0.535	0.579	8.11
65)		tert-Butylbenzene			2.080	2.251	2.222	1.733	1.753	2.008	12.47
66)	T	Benzyl Chloride			0.141	0.159	0.163	0.153	0.150	0.153	5.40
67)		sec-Butylbenzene			2.973	3.229	3.182	2.482	2.494	2.872	12.65
68)	S	1-Bromo-4-Fluo...	0.773	0.760	0.768	0.777	0.765	0.764	0.779	0.769	0.92
69)		p-Isopropyltol...			2.240	2.533	2.575	2.021	2.056	2.285	11.38
70)		n-Butylbenzene			2.332	2.567	2.572	2.070	2.120	2.332	10.20
71)		2-Chlorotoluene			1.758	1.829	1.853	1.514	1.551	1.701	9.30
72)	T	4-Ethyltoluene			1.775	1.944	1.985	1.621	1.670	1.799	8.99
73)	T	1,3,5-Trimethy...			1.592	1.732	1.696	1.381	1.400	1.560	10.47
74)	T	1,2,4-Trimethy...			1.855	1.982	1.990	1.471	1.488	1.757	14.76
75)	T	1,3-Dichlorobe...			1.112	1.110	1.083	0.869	0.882	1.011	12.30
76)	T	1,4-Dichlorobe...			1.120	1.061	1.092	0.861	0.886	1.004	12.07
77)	T	1,2-Dichlorobe...			1.059	1.097	1.063	0.836	0.852	0.981	12.88
78)	T	Hexachloro-1,3...			0.840	0.832	0.844	0.637	0.666	0.764	13.53
79)	T	Naphthalene		0.841	0.978	1.237	1.352	1.371	1.450	1.205	20.15
80)	T	Naphthalene,2-...			0.090	0.142	0.240	0.562	0.615	0.330	73.74
81)	T	1,2,4-Trichlor...			0.589	0.687	0.765	0.644	0.673	0.671	9.58

(#) = Out of Range

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022525\
 Data File : VL042041.D
 Acq On : 25 Feb 2025 08:56
 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 :Mahesh Dadoda 03/06/2025
 Supervised By :Semsettin Yesilyurt 03/06/2025

Quant Time: Feb 25 10:10:59 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M

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

QLast Update : Tue Feb 18 00:13:37 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.800	49	161135	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.978	114	422655	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.901	117	374249	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.393 95 285943 9.263 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 92.600%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.502	85	152005	5.480	ppbv	99
3) Chlorodifluoromethane	1.479	51	211185	6.887	ppbv	96
4) Chloromethane	1.538	50	55364	5.136	ppbv	98
5) Vinyl Chloride	1.586	62	54228	4.207	ppbv	98
6) Bromomethane	1.674	94	25846	5.173	ppbv	90
7) Chloroethane	1.709	64	21717	5.169	ppbv	96
8) Dichlorotetrafluoroethane	1.560	85	125595	5.147	ppbv	94
9) Propene	1.489	41	84038	6.357	ppbv	97
10) Heptane	5.007	43	267860	7.296	ppbv	97
11) Trichlorofluoromethane	1.884	101	152112	5.449	ppbv	96
12) 1,1,2-Trichlorotrifluo...	2.146	101	112374	5.162	ppbv	93
13) Ethanol	1.729	45	3178	2.131	ppbv	85
14) Bromoethene	1.787	108	42461	5.223	ppbv	99
15) Acetone	1.842	43	115085	4.327	ppbv	95
16) 1,3-Butadiene	1.615	39	57707	4.574	ppbv	100
17) tert-Butyl alcohol	2.049	59	153073	4.651	ppbv	100
18) 1,1-Dichloroethene	2.043	96	51534	4.954	ppbv	95
19) Isopropyl Alcohol	1.894	45	67445	4.522	ppbv	98
20) Methylene Chloride	2.069	84	41998	4.195	ppbv	94
21) Allyl Chloride	2.104	41	86723	4.504	ppbv	99
22) trans-1,2-Dichloroethene	2.350	96	57617	5.104	ppbv	96
23) Vinyl Acetate	2.473	43	83866	5.823	ppbv	98
24) 1,1-Dichloroethane	2.418	63	107817	4.704	ppbv	100
25) Ethyl Acetate	2.852	43	511505	7.007	ppbv	99
26) Hexane	2.839	57	206577	7.052	ppbv	98
27) Carbon Disulfide	2.159	76	137978	5.008	ppbv	97
28) Methyl tert-Butyl Ether	2.450	73	84091	4.696	ppbv	98
29) Chloroform	2.862	83	277411	6.538	ppbv	96
30) Cyclohexane	3.875	84	173351	7.295	ppbv	98
31) cis-1,2-Dichloroethene	2.732	61	199354	6.886	ppbv	98
32) 1,1,1-Trichloroethane	3.383	97	285335	6.064	ppbv	98
34) 2-Butanone	2.570	43	292449	8.043	ppbv	100
35) Carbon Tetrachloride	3.781	117	276677	6.741	ppbv	97
36) Benzene	3.674	78	409501	7.999	ppbv	98
37) 1,2-Dichloroethane	3.234	62	219829	7.543	ppbv	100
38) Trichloroethene	4.570	130	159933	7.689	ppbv	93
39) 1,2-Dichloropropane	4.337	63	151036	8.047	ppbv	99
40) 1,4-Dioxane	4.609	88	69399	7.105	ppbv #	76
41) Tetrahydrofuran	3.072	42	176830	8.509	ppbv	95
42) Bromodichloromethane	4.512	83	312250	7.908	ppbv	97
43) Methyl Methacrylate	4.907	69	165494	7.091	ppbv	97
44) 2,2,4-Trimethylpentane	4.661	57	705920	8.122	ppbv	97
45) t-1,3-Dichloropropene	6.444	75	166207	7.544	ppbv	91

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022525\
 Data File : VL042041.D
 Acq On : 25 Feb 2025 08:56
 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 :Mahesh Dadoda 03/06/2025
 Supervised By :Semsettin Yesilyurt 03/06/2025

Quant Time: Feb 25 10:10:59 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M

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

QLast Update : Tue Feb 18 00:13:37 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.629	75	218294	7.809	ppbv	99
47) 1,1,2-Trichloroethane	6.610	97	152556	7.723	ppbv	97
48) Dibromochloromethane	7.412	129	251213	7.593	ppbv	99
49) Bromoform	9.503	173	222057	8.183	ppbv	98
50) 4-Methyl-2-Pentanone	5.787	43	428434	7.666	ppbv	100
51) 2-Hexanone	7.464	43	352331	7.709	ppbv #	96
52) Tetrachloroethene	8.244	164	138263	7.743	ppbv	94
53) Toluene	6.959	91	460041	7.541	ppbv	97
54) 1,2-Dibromoethane	7.678	107	211395	7.772	ppbv	98
56) 1,1,1,2-Tetrachloroethane	8.943	131	188811	7.049	ppbv	97
57) Chlorobenzene	8.940	112	340525	7.735	ppbv	97
58) Ethyl Benzene	9.374	91	633939	7.739	ppbv	98
59) m/p-Xylene	9.552	91	995259m	15.427	ppbv	
60) o-Xylene	9.982	91	493069	7.557	ppbv	97
61) Styrene	9.888	104	246161	7.912	ppbv	98
62) Isopropylbenzene	10.555	105	736884	7.522	ppbv	98
63) 1,1,2,2-Tetrachloroethane	9.979	83	317313	7.538	ppbv	100
64) n-propylbenzene	11.005	120	196044	8.145	ppbv	90
65) tert-Butylbenzene	11.545	119	648698	7.596	ppbv	97
66) Benzyl Chloride	11.630	91	57345	6.699	ppbv #	97
67) sec-Butylbenzene	11.782	105	928863	7.744	ppbv	99
69) p-Isopropyltoluene	11.940	119	756264	7.702	ppbv	98
70) n-Butylbenzene	12.296	91	774646	8.009	ppbv	99
71) 2-Chlorotoluene	10.918	91	566619	7.681	ppbv	97
72) 4-Ethyltoluene	11.141	105	606538	7.934	ppbv	98
73) 1,3,5-Trimethylbenzene	11.219	105	516875	7.838	ppbv	100
74) 1,2,4-Trimethylbenzene	11.552	105	550412	7.777	ppbv	98
75) 1,3-Dichlorobenzene	11.623	146	325160	8.535	ppbv	97
76) 1,4-Dichlorobenzene	11.685	146	322404	8.678	ppbv	97
77) 1,2-Dichlorobenzene	11.963	146	312942	8.593	ppbv	96
78) Hexachloro-1,3-Butadiene	13.895	225	238217	7.907	ppbv	100
79) Naphthalene	13.526	128	513192	7.372	ppbv	99
80) Naphthalene,2-methyl-	14.471	142	210405	6.676	ppbv	95
81) 1,2,4-Trichlorobenzene	13.455	180	241031	8.517	ppbv	99

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022525\
 Data File : VL042042.D
 Acq On : 25 Feb 2025 09:29
 Operator : SY/MD
 Sample : VSTDICC002
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC002

Quant Time: Feb 25 10:12:18 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2
 QLast Update : Tue Feb 18 00:13:37 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 02/26/2025
 Supervised By : Mahesh Dadoda 02/26/2025

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

Internal Standards						
1) Bromochloromethane	2.800	49	160999	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.981	114	427051	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.901	117	377910	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.393	95	289049	9.273	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	92.700%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.505	85	35122	1.267	ppbv	95
3) Chlorodifluoromethane	1.483	51	49423	1.613	ppbv	94
4) Chloromethane	1.538	50	12833	1.192	ppbv #	87
5) Vinyl Chloride	1.586	62	11611	0.902	ppbv	97
6) Bromomethane	1.674	94	5996	1.201	ppbv	97
7) Chloroethane	1.712	64	5014	1.195	ppbv	90
8) Dichlorotetrafluoroethane	1.560	85	29028	1.191	ppbv	99
9) Propene	1.489	41	20484	1.551	ppbv	95
10) Heptane	5.004	43	63098	1.720	ppbv	94
11) Trichlorofluoromethane	1.884	101	36041	1.292	ppbv	98
12) 1,1,2-Trichlorotrifluo...	2.149	101	27846	1.280	ppbv	90
13) Ethanol	1.729	45	1291	0.866	ppbv	91
14) Bromoethene	1.790	108	9642	1.187	ppbv	93
15) Acetone	1.842	43	30058	1.131	ppbv	100
16) 1,3-Butadiene	1.615	39	13471	1.069	ppbv	100
17) tert-Butyl alcohol	2.052	59	38684	1.176	ppbv	96
18) 1,1-Dichloroethene	2.043	96	12417	1.195	ppbv	93
19) Isopropyl Alcohol	1.894	45	17927	1.203	ppbv	96
20) Methylene Chloride	2.072	84	10587	1.058	ppbv #	80
21) Allyl Chloride	2.107	41	20564	1.069	ppbv	96
22) trans-1,2-Dichloroethene	2.350	96	14475	1.283	ppbv	81
23) Vinyl Acetate	2.473	43	22394	1.556	ppbv #	94
24) 1,1-Dichloroethane	2.421	63	27804	1.214	ppbv	99
25) Ethyl Acetate	2.852	43	121593	1.667	ppbv	100
26) Hexane	2.839	57	48912	1.671	ppbv	98
27) Carbon Disulfide	2.159	76	33222	1.207	ppbv #	57
28) Methyl tert-Butyl Ether	2.457	73	26968	1.507	ppbv	100
29) Chloroform	2.865	83	63463	1.497	ppbv	92
30) Cyclohexane	3.878	84	40420	1.702	ppbv	98
31) cis-1,2-Dichloroethene	2.732	61	46690	1.614	ppbv	96
32) 1,1,1-Trichloroethane	3.386	97	62586	1.331	ppbv	97
34) 2-Butanone	2.573	43	69370	1.888	ppbv	96
35) Carbon Tetrachloride	3.784	117	61895	1.493	ppbv	97
36) Benzene	3.677	78	94277	1.822	ppbv	98
37) 1,2-Dichloroethane	3.237	62	51050	1.734	ppbv	99
38) Trichloroethene	4.574	130	38184	1.817	ppbv	99
39) 1,2-Dichloropropane	4.341	63	35396	1.866	ppbv	95
40) 1,4-Dioxane	4.622	88	15442	1.565	ppbv #	28
41) Tetrahydrofuran	3.075	42	40365	1.922	ppbv	96
42) Bromodichloromethane	4.512	83	69154	1.733	ppbv	94
43) Methyl Methacrylate	4.910	69	36393	1.543	ppbv	94
44) 2,2,4-Trimethylpentane	4.664	57	166945	1.901	ppbv	97
45) t-1,3-Dichloropropene	6.448	75	35707	1.604	ppbv	93

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022525\
 Data File : VL042042.D
 Acq On : 25 Feb 2025 09:29
 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 02/26/2025
 Supervised By :Mahesh Dadoda 02/26/2025

Quant Time: Feb 25 10:12:18 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M

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

QLast Update : Tue Feb 18 00:13:37 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.632	75	46835	1.658	ppbv	93
47) 1,1,2-Trichloroethane	6.613	97	36368	1.822	ppbv	93
48) Dibromochloromethane	7.412	129	56931	1.703	ppbv	99
49) Bromoform	9.503	173	50259	1.833	ppbv	99
50) 4-Methyl-2-Pentanone	5.797	43	83246	1.474	ppbv	99
51) 2-Hexanone	7.470	43	51926	1.124	ppbv #	94
52) Tetrachloroethene	8.244	164	32874	1.822	ppbv	95
53) Toluene	6.962	91	109646	1.779	ppbv	98
54) 1,2-Dibromoethane	7.678	107	50010	1.820	ppbv	97
56) 1,1,1,2-Tetrachloroethane	8.946	131	44947	1.662	ppbv	98
57) Chlorobenzene	8.943	112	84749	1.906	ppbv	95
58) Ethyl Benzene	9.374	91	149185	1.804	ppbv	99
59) m/p-Xylene	9.568	91	238800m	3.666	ppbv	
60) o-Xylene	9.982	91	119170	1.809	ppbv	97
61) Styrene	9.888	104	55798	1.776	ppbv	96
62) Isopropylbenzene	10.555	105	181311	1.833	ppbv	97
63) 1,1,2,2-Tetrachloroethane	9.982	83	77911	1.833	ppbv	96
64) n-propylbenzene	11.005	120	47764	1.965	ppbv	92
65) tert-Butylbenzene	11.545	119	167973	1.948	ppbv	96
66) Benzyl Chloride	11.630	91	12304	1.423	ppbv #	98
67) sec-Butylbenzene	11.782	105	240504	1.986	ppbv	99
69) p-Isopropyltoluene	11.940	119	194660	1.963	ppbv	99
70) n-Butylbenzene	12.296	91	194416	1.991	ppbv	99
71) 2-Chlorotoluene	10.917	91	140068	1.880	ppbv	98
72) 4-Ethyltoluene	11.141	105	150038	1.944	ppbv	98
73) 1,3,5-Trimethylbenzene	11.218	105	128202	1.925	ppbv	99
74) 1,2,4-Trimethylbenzene	11.549	105	150380	2.104	ppbv #	88
75) 1,3-Dichlorobenzene	11.623	146	81884	2.129	ppbv	98
76) 1,4-Dichlorobenzene	11.688	146	82560	2.201	ppbv	97
77) 1,2-Dichlorobenzene	11.963	146	80367	2.186	ppbv	96
78) Hexachloro-1,3-Butadiene	13.895	225	63815	2.098	ppbv	99
79) Naphthalene	13.526	128	102197	1.454	ppbv	98
80) Naphthalene,2-methyl-	14.475	142	18104	0.569	ppbv	94
81) 1,2,4-Trichlorobenzene	13.455	180	57798	2.023	ppbv	98

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022525\
 Data File : VL042043.D
 Acq On : 25 Feb 2025 10:00
 Operator : SY/MD
 Sample : VSTDICC001
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC001

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 02/26/2025
 Supervised By : Mahesh Dadoda 02/26/2025

Quant Time: Feb 25 10:27:35 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M

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

QLast Update : Tue Feb 25 10:15:00 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.800	49	161096	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.978	114	423363	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.898	117	369917	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.390 95 287450 9.420 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 94.200%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.502	85	17457	0.629	ppbv	95
3) Chlorodifluoromethane	1.479	51	25229	0.823	ppbv	98
4) Chloromethane	1.538	50	6417	0.595	ppbv #	75
5) Vinyl Chloride	1.586	62	5567	0.432	ppbv	96
6) Bromomethane	1.674	94	2966	0.594	ppbv	100
7) Chloroethane	1.709	64	2542	0.605	ppbv	96
8) Dichlorotetrafluoroethane	1.560	85	14655	0.601	ppbv	90
9) Propene	1.486	41	10156	0.768	ppbv	96
10) Heptane	4.998	43	31354m	0.854	ppbv	
11) Trichlorofluoromethane	1.884	101	18079	0.648	ppbv	98
12) 1,1,2-Trichlorotrifluo...	2.149	101	14527	0.667	ppbv	92
13) Ethanol	1.725	45	915m	0.614	ppbv	
14) Bromoethene	1.787	108	4905	0.604	ppbv #	95
15) Acetone	1.845	43	15468	0.582	ppbv	98
16) 1,3-Butadiene	1.615	39	7010	0.556	ppbv	99
17) tert-Butyl alcohol	2.052	59	19092	0.580	ppbv	97
18) 1,1-Dichloroethene	2.043	96	7042	0.677	ppbv	94
19) Isopropyl Alcohol	1.894	45	9191	0.616	ppbv #	32
20) Methylene Chloride	2.068	84	6026	0.602	ppbv	95
21) Allyl Chloride	2.104	41	11550	0.600	ppbv	95
22) trans-1,2-Dichloroethene	2.347	96	8145m	0.722	ppbv	
23) Vinyl Acetate	2.473	43	9893	0.687	ppbv #	91
24) 1,1-Dichloroethane	2.418	63	13783	0.601	ppbv	98
25) Ethyl Acetate	2.852	43	59183	0.811	ppbv	99
26) Hexane	2.836	57	23549	0.804	ppbv	96
27) Carbon Disulfide	2.159	76	15659	0.568	ppbv #	46
28) Methyl tert-Butyl Ether	2.454	73	13593	0.759	ppbv	95
29) Chloroform	2.861	83	32925	0.776	ppbv	94
30) Cyclohexane	3.874	84	19953	0.840	ppbv	97
31) cis-1,2-Dichloroethene	2.732	61	22565	0.780	ppbv	97
32) 1,1,1-Trichloroethane	3.386	97	30870	0.656	ppbv	96
34) 2-Butanone	2.570	43	33820	0.929	ppbv	99
35) Carbon Tetrachloride	3.777	117	30618	0.745	ppbv	90
36) Benzene	3.674	78	45892	0.895	ppbv	96
37) 1,2-Dichloroethane	3.234	62	25585	0.876	ppbv	99
38) Trichloroethene	4.570	130	18921	0.908	ppbv	91
39) 1,2-Dichloropropane	4.334	63	17557	0.934	ppbv	94
40) 1,4-Dioxane	4.619	88	8319m	0.850	ppbv	
41) Tetrahydrofuran	3.075	42	20823	1.000	ppbv	96
42) Bromodichloromethane	4.515	83	33481	0.847	ppbv	97
43) Methyl Methacrylate	4.907	69	17679	0.756	ppbv	99
44) 2,2,4-Trimethylpentane	4.661	57	81921	0.941	ppbv	98
45) t-1,3-Dichloropropene	6.444	75	16578m	0.751	ppbv	

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022525\
 Data File : VL042043.D
 Acq On : 25 Feb 2025 10:00
 Operator : SY/MD
 Sample : VSTDIC001
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 02/26/2025
 Supervised By :Mahesh Dadoda 02/26/2025

Quant Time: Feb 25 10:27:35 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M

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

QLast Update : Tue Feb 25 10:15:00 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.632	75	22127m	0.790	ppbv	
47) 1,1,2-Trichloroethane	6.616	97	18160m	0.918	ppbv	
48) Dibromochloromethane	7.412	129	28239	0.852	ppbv	97
49) Bromoform	9.500	173	23310	0.858	ppbv	94
50) 4-Methyl-2-Pentanone	5.791	43	41249m	0.737	ppbv	
51) 2-Hexanone	7.470	43	24117	0.527	ppbv #	97
52) Tetrachloroethene	8.241	164	16217	0.907	ppbv	89
53) Toluene	6.959	91	51231	0.838	ppbv	99
54) 1,2-Dibromoethane	7.674	107	23427	0.860	ppbv	94
56) 1,1,1,2-Tetrachloroethane	8.943	131	22060	0.833	ppbv	97
57) Chlorobenzene	8.937	112	41173	0.946	ppbv	96
58) Ethyl Benzene	9.370	91	70507	0.871	ppbv	97
59) m/p-Xylene	9.568	91	114691m	1.799	ppbv	
60) o-Xylene	9.979	91	57322	0.889	ppbv	99
61) Styrene	9.885	104	26596	0.865	ppbv	98
62) Isopropylbenzene	10.555	105	86533	0.894	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.979	83	38520	0.926	ppbv	98
64) n-propylbenzene	11.002	120	22456	0.944	ppbv	94
65) tert-Butylbenzene	11.545	119	83284	0.987	ppbv	99
66) Benzyl Chloride	11.626	91	5880m	0.695	ppbv	
67) sec-Butylbenzene	11.782	105	119435	1.007	ppbv	99
69) p-Isopropyltoluene	11.940	119	93710	0.966	ppbv	99
70) n-Butylbenzene	12.293	91	94969	0.993	ppbv	98
71) 2-Chlorotoluene	10.914	91	67655	0.928	ppbv	98
72) 4-Ethyltoluene	11.137	105	71906	0.952	ppbv	99
73) 1,3,5-Trimethylbenzene	11.215	105	64087	0.983	ppbv	96
74) 1,2,4-Trimethylbenzene	11.549	105	73323	1.048	ppbv	100
75) 1,3-Dichlorobenzene	11.620	146	41063	1.091	ppbv	99
76) 1,4-Dichlorobenzene	11.685	146	39235	1.068	ppbv	99
77) 1,2-Dichlorobenzene	11.960	146	40574	1.127	ppbv	98
78) Hexachloro-1,3-Butadiene	13.895	225	30764	1.033	ppbv	99
79) Naphthalene	13.526	128	45743	0.665	ppbv	98
80) Naphthalene,2-methyl-	14.471	142	5244	0.168	ppbv	94
81) 1,2,4-Trichlorobenzene	13.452	180	25404	0.908	ppbv	95

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022525\
Data File : VL042043.D
Acq On : 25 Feb 2025 10:00
Operator : SY/MD
Sample : VSTDIC001
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

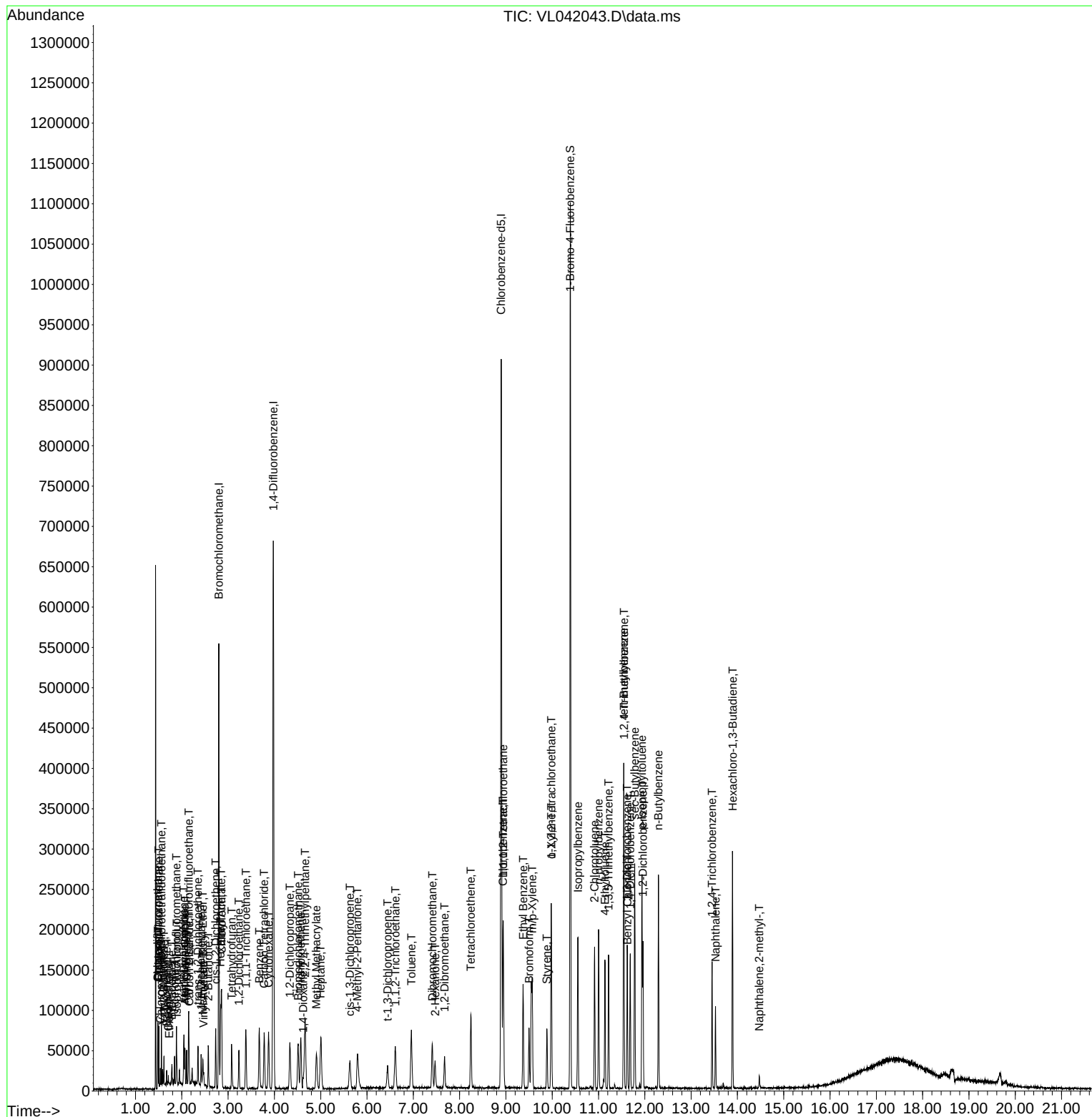
Quant Time: Feb 25 10:27:35 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug

QLast Update : Tue Feb 25 10:15:00 2025

Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022525\
 Data File : VL042044.D
 Acq On : 25 Feb 2025 10:31
 Operator : SY/MD
 Sample : VSTDICC0.5
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC0.5

Quant Time: Feb 25 10:56:41 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M

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

QLast Update : Tue Feb 25 10:31:48 2025

Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 02/26/2025
 Supervised By : Mahesh Dadoda 02/26/2025

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

Internal Standards						
1) Bromochloromethane	2.797	49	159644	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.975	114	421340	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.898	117	365954	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.390 95 281042 9.310 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 93.100%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.502	85	8852	0.322	ppbv	98
3) Chlorodifluoromethane	1.479	51	11921	0.392	ppbv	94
4) Chloromethane	1.537	50	3497	0.327	ppbv #	88
5) Vinyl Chloride	1.583	62	3005	0.235	ppbv	98
6) Bromomethane	1.673	94	1359	0.275	ppbv	92
7) Chloroethane	1.709	64	1205	0.290	ppbv	89
8) Dichlorotetrafluoroethane	1.557	85	7123	0.295	ppbv	99
9) Propene	1.486	41	4904	0.374	ppbv	94
10) Heptane	5.004	43	15731	0.432	ppbv	98
11) Trichlorofluoromethane	1.884	101	8429	0.305	ppbv	92
12) 1,1,2-Trichlorotrifluo...	2.146	101	7336	0.340	ppbv	98
13) Ethanol	1.725	45	426	0.288	ppbv	75
14) Bromoethene	1.787	108	2598	0.323	ppbv #	89
15) Acetone	1.842	43	8655	0.328	ppbv	96
16) 1,3-Butadiene	1.615	39	3803	0.304	ppbv	97
17) tert-Butyl alcohol	2.049	59	9447	0.290	ppbv #	90
18) 1,1-Dichloroethene	2.039	96	3173	0.308	ppbv	94
19) Isopropyl Alcohol	1.894	45	4481	0.303	ppbv #	32
20) Methylene Chloride	2.068	84	3423	0.345	ppbv	97
21) Allyl Chloride	2.104	41	5640	0.296	ppbv	100
22) trans-1,2-Dichloroethene	2.347	96	3838m	0.343	ppbv	
23) Vinyl Acetate	2.473	43	5499	0.385	ppbv #	86
24) 1,1-Dichloroethane	2.418	63	7396	0.326	ppbv #	88
25) Ethyl Acetate	2.848	43	30593	0.423	ppbv	98
26) Hexane	2.832	57	12739	0.439	ppbv	98
27) Carbon Disulfide	2.159	76	8316	0.305	ppbv #	15
28) Methyl tert-Butyl Ether	2.450	73	5185	0.292	ppbv #	80
29) Chloroform	2.858	83	17278	0.411	ppbv	93
30) Cyclohexane	3.874	84	9209	0.391	ppbv	88
31) cis-1,2-Dichloroethene	2.729	61	11344	0.395	ppbv	97
32) 1,1,1-Trichloroethane	3.382	97	15027	0.322	ppbv	93
34) 2-Butanone	2.570	43	17555	0.484	ppbv	99
35) Carbon Tetrachloride	3.780	117	14223	0.348	ppbv	90
36) Benzene	3.670	78	22728	0.445	ppbv	95
37) 1,2-Dichloroethane	3.230	62	13141	0.452	ppbv	100
38) Trichloroethene	4.570	130	9115	0.440	ppbv #	87
39) 1,2-Dichloropropane	4.331	63	8877m	0.474	ppbv	
40) 1,4-Dioxane	4.622	88	4046m	0.416	ppbv	
41) Tetrahydrofuran	3.078	42	9880	0.477	ppbv	98
42) Bromodichloromethane	4.505	83	16973	0.431	ppbv #	96
43) Methyl Methacrylate	4.904	69	8428	0.362	ppbv	93
44) 2,2,4-Trimethylpentane	4.661	57	40623	0.469	ppbv	98
45) t-1,3-Dichloropropene	6.441	75	8720m	0.397	ppbv	

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022525\
 Data File : VL042044.D
 Acq On : 25 Feb 2025 10:31
 Operator : SY/MD
 Sample : VSTDICC0.5
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC0.5

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 02/26/2025
 Supervised By :Mahesh Dadoda 02/26/2025

Quant Time: Feb 25 10:56:41 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M

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

QLast Update : Tue Feb 25 10:31:48 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.629	75	10834m	0.389	ppbv	
47) 1,1,2-Trichloroethane	6.609	97	8982m	0.456	ppbv	
48) Dibromochloromethane	7.406	129	13014m	0.395	ppbv	
49) Bromoform	9.496	173	11640	0.430	ppbv	98
50) 4-Methyl-2-Pentanone	5.794	43	20992m	0.377	ppbv	
51) 2-Hexanone	7.470	43	12149m	0.267	ppbv	
52) Tetrachloroethene	8.241	164	8012	0.450	ppbv	95
53) Toluene	6.956	91	24224	0.398	ppbv	96
54) 1,2-Dibromoethane	7.674	107	11718m	0.432	ppbv	
56) 1,1,1,2-Tetrachloroethane	8.940	131	11100	0.424	ppbv #	61
57) Chlorobenzene	8.936	112	20167	0.468	ppbv	97
58) Ethyl Benzene	9.370	91	34506	0.431	ppbv	90
59) m/p-Xylene	9.568	91	54449m	0.863	ppbv	
60) o-Xylene	9.979	91	28757	0.451	ppbv	95
61) Styrene	9.885	104	12051	0.396	ppbv	99
62) Isopropylbenzene	10.552	105	42074	0.439	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.975	83	18774	0.456	ppbv	96
64) n-propylbenzene	11.001	120	10900	0.463	ppbv	100
65) tert-Butylbenzene	11.542	119	38066	0.456	ppbv	98
66) Benzyl Chloride	11.626	91	2589	0.309	ppbv #	96
67) sec-Butylbenzene	11.778	105	54394	0.464	ppbv	97
69) p-Isopropyltoluene	11.937	119	40978	0.427	ppbv	95
70) n-Butylbenzene	12.293	91	42673	0.451	ppbv	99
71) 2-Chlorotoluene	10.914	91	32161	0.446	ppbv	99
72) 4-Ethyltoluene	11.137	105	32477	0.434	ppbv #	95
73) 1,3,5-Trimethylbenzene	11.215	105	29130	0.452	ppbv	91
74) 1,2,4-Trimethylbenzene	11.548	105	33950	0.491	ppbv	97
75) 1,3-Dichlorobenzene	11.616	146	20339	0.546	ppbv	96
76) 1,4-Dichlorobenzene	11.684	146	20492	0.564	ppbv	93
77) 1,2-Dichlorobenzene	11.959	146	19373	0.544	ppbv	96
78) Hexachloro-1,3-Butadiene	13.892	225	15367	0.522	ppbv	99
79) Naphthalene	13.523	128	17897	0.263	ppbv #	95
80) Naphthalene,2-methyl-	14.478	142	1646	0.053	ppbv #	81
81) 1,2,4-Trichlorobenzene	13.452	180	10771	0.389	ppbv	94

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022525\
 Data File : VL042045.D
 Acq On : 25 Feb 2025 11:03
 Operator : SY/MD
 Sample : VSTDIC0.1
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.1

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 02/26/2025
 Supervised By :Mahesh Dadoda 02/26/2025

Quant Time: Feb 25 12:33:08 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M

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

QLast Update : Tue Feb 25 10:31:48 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.803	49	161406	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.981	114	414875	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.904	117	363831	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.393	95	276484	9.213	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	92.100%
Target Compounds						
5) Vinyl Chloride	1.586	62	543	0.042	ppbv #	88
32) 1,1,1-Trichloroethane	3.386	97	3026	0.064	ppbv #	86
35) Carbon Tetrachloride	3.787	117	2923m	0.073	ppbv	
38) Trichloroethene	4.577	130	1915m	0.094	ppbv	
52) Tetrachloroethene	8.254	164	1552m	0.089	ppbv	
54) 1,2-Dibromoethane	7.678	107	2335m	0.087	ppbv	
63) 1,1,2,2-Tetrachloroethane	9.982	83	3549m	0.087	ppbv	
79) Naphthalene	13.529	128	3058	0.045	ppbv #	91

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

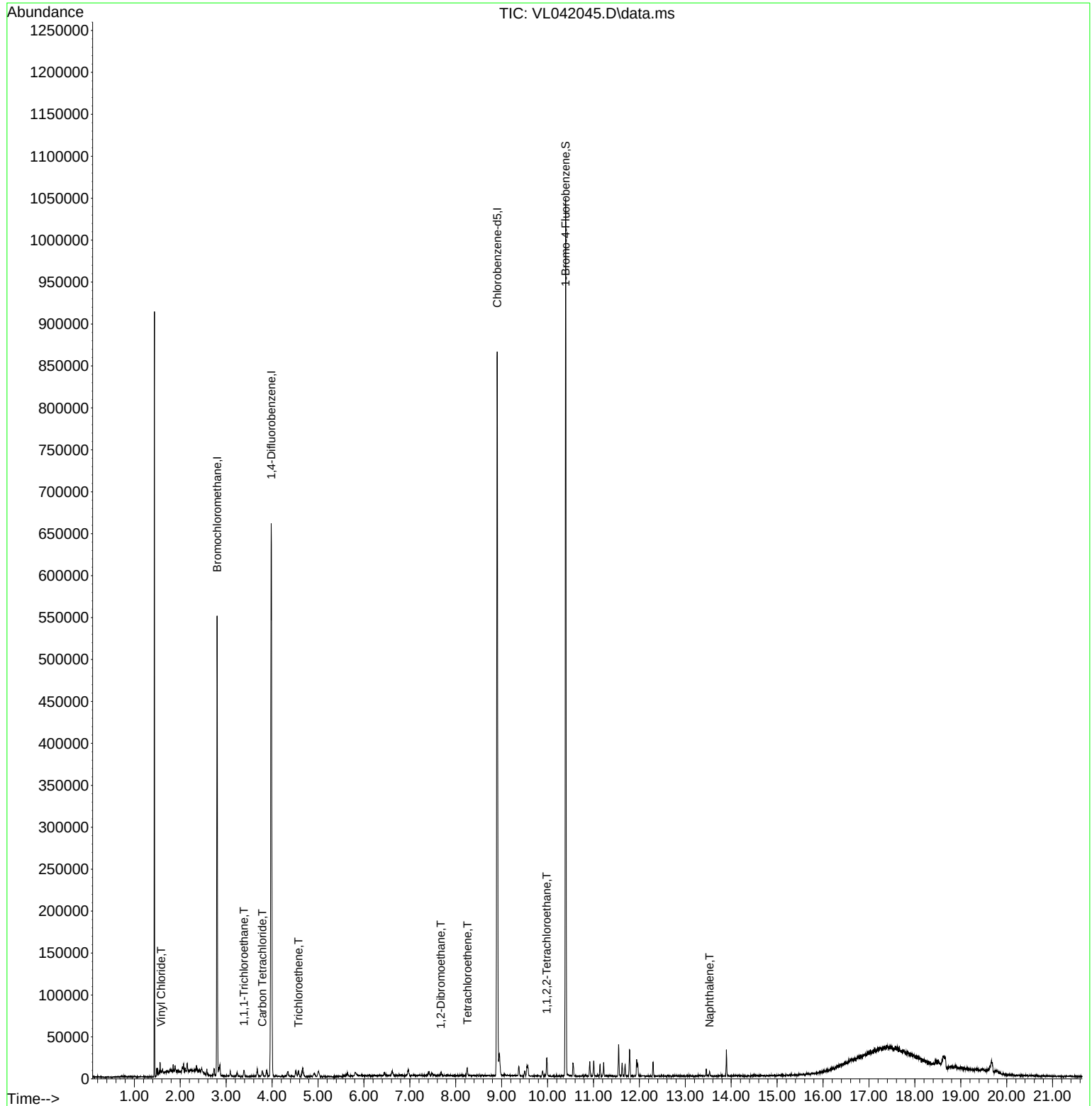
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022525\
Data File : VL042045.D
Acq On : 25 Feb 2025 11:03
Operator : SY/MD
Sample : VSTDICC0.1
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

Quant Time: Feb 25 12:33:08 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Tue Feb 25 10:31:48 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022525\
 Data File : VL042046.D
 Acq On : 25 Feb 2025 11:34
 Operator : SY/MD
 Sample : VSTDICC0.03
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC0.03

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 02/26/2025
 Supervised By :Mahesh Dadoda 02/26/2025

Quant Time: Feb 25 12:34:19 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 2
 QLast Update : Tue Feb 25 10:31:48 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.797	49	160156	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.975	114	410900	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.898	117	353154	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.390	95	272906	9.368	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	93.700%
Target Compounds						
					Qvalue	
5) Vinyl Chloride	1.586	62	215	0.017	ppbv	89
32) 1,1,1-Trichloroethane	3.379	97	923m	0.020	ppbv	
35) Carbon Tetrachloride	3.784	117	818m	0.021	ppbv	
38) Trichloroethene	4.577	130	551m	0.027	ppbv	
52) Tetrachloroethene	8.237	164	397m	0.023	ppbv	
63) 1,1,2,2-Tetrachloroethane	9.979	83	1058m	0.027	ppbv	

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

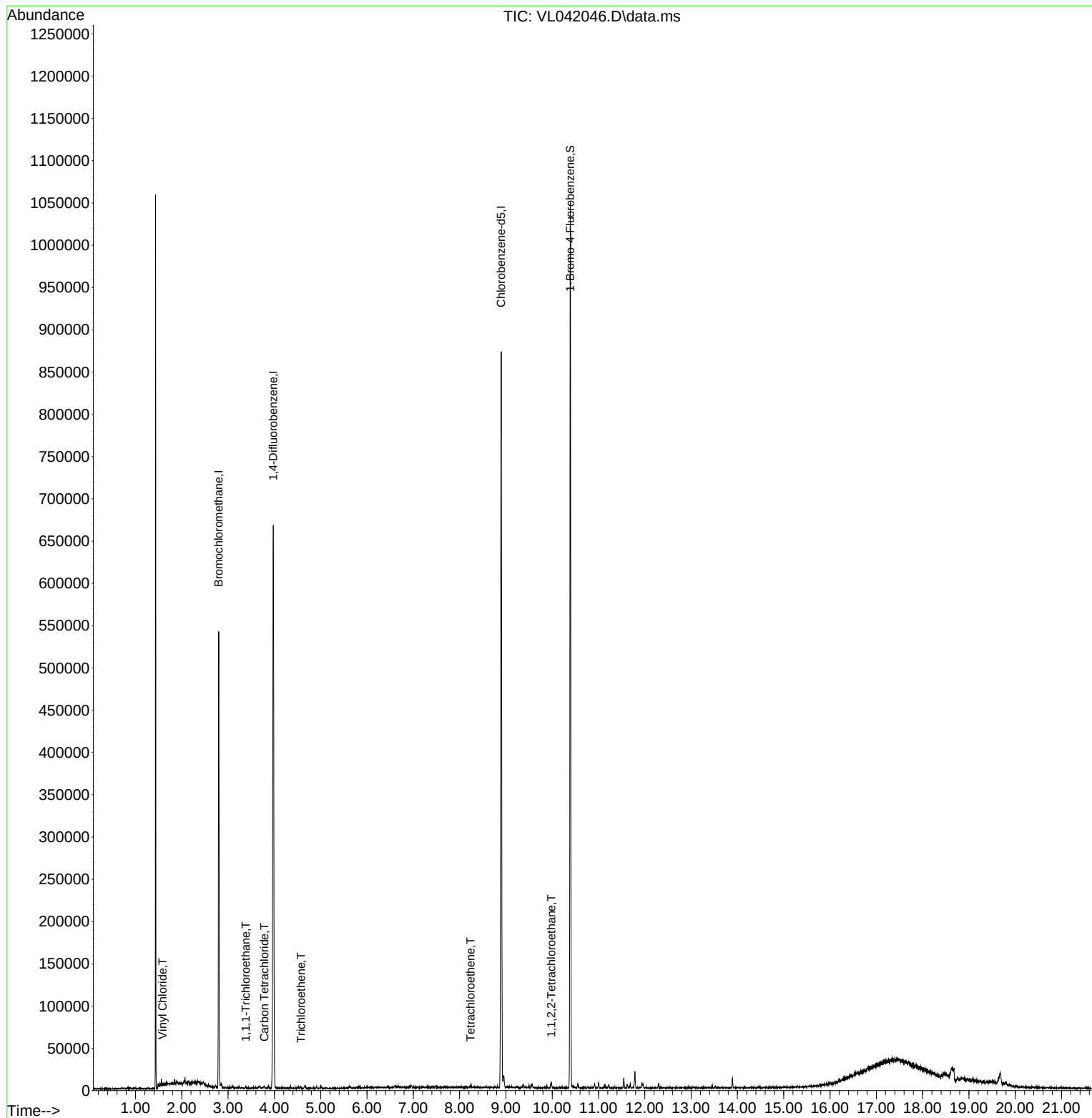
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022525\
Data File : VL042046.D
Acq On : 25 Feb 2025 11:34
Operator : SY/MD
Sample : VSTDICC0.03
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

Quant Time: Feb 25 12:34:19 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Tue Feb 25 10:31:48 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022525\
 Data File : VL042047.D
 Acq On : 25 Feb 2025 12:07
 Operator : SY/MD
 Sample : VSTDICC015
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC015

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 02/26/2025
 Supervised By : Mahesh Dadoda 02/26/2025

Quant Time: Feb 25 12:35:10 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M

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

QLast Update : Tue Feb 25 10:31:48 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.800	49	159015	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.978	114	401919	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.904	117	351637	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.393 95 273846 9.441 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 94.400%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.502	85	231978	8.474	ppbv	99
3) Chlorodifluoromethane	1.479	51	324821	10.733	ppbv	100
4) Chloromethane	1.537	50	82097	7.718	ppbv	98
5) Vinyl Chloride	1.586	62	81863	6.436	ppbv	99
6) Bromomethane	1.673	94	39366	7.983	ppbv	97
7) Chloroethane	1.709	64	33329	8.039	ppbv	92
8) Dichlorotetrafluoroethane	1.560	85	188716	7.837	ppbv	98
9) Propene	1.489	41	133086	10.201	ppbv	97
10) Heptane	5.004	43	400418	11.052	ppbv	99
11) Trichlorofluoromethane	1.884	101	230938	8.383	ppbv	95
12) 1,1,2-Trichlorotrifluo...	2.149	101	184306	8.579	ppbv	99
13) Ethanol	1.725	45	4281	2.909	ppbv	100
14) Bromoethene	1.787	108	65496	8.164	ppbv	99
15) Acetone	1.842	43	172538	6.574	ppbv	98
16) 1,3-Butadiene	1.615	39	87490	7.027	ppbv	100
17) tert-Butyl alcohol	2.049	59	239569	7.377	ppbv	98
18) 1,1-Dichloroethene	2.042	96	80535	7.845	ppbv	98
19) Isopropyl Alcohol	1.894	45	102365	6.955	ppbv	99
20) Methylene Chloride	2.068	84	66282	6.709	ppbv	98
21) Allyl Chloride	2.104	41	140726	7.406	ppbv	99
22) trans-1,2-Dichloroethene	2.350	96	94321	8.466	ppbv	95
23) Vinyl Acetate	2.473	43	139727	9.831	ppbv	99
24) 1,1-Dichloroethane	2.418	63	180882	7.997	ppbv	99
25) Ethyl Acetate	2.848	43	767353	10.652	ppbv	99
26) Hexane	2.839	57	306864	10.615	ppbv	99
27) Carbon Disulfide	2.159	76	224609	8.261	ppbv	98
28) Methyl tert-Butyl Ether	2.453	73	168058	9.510	ppbv	98
29) Chloroform	2.861	83	409240	9.774	ppbv	100
30) Cyclohexane	3.874	84	256687	10.946	ppbv	98
31) cis-1,2-Dichloroethene	2.732	61	299324	10.476	ppbv	96
32) 1,1,1-Trichloroethane	3.386	97	417615	8.994	ppbv	98
34) 2-Butanone	2.570	43	457602	13.234	ppbv	98
35) Carbon Tetrachloride	3.780	117	410730	10.524	ppbv	96
36) Benzene	3.674	78	602107	12.367	ppbv	97
37) 1,2-Dichloroethane	3.233	62	335275	12.097	ppbv	99
38) Trichloroethene	4.573	130	228298	11.542	ppbv	98
39) 1,2-Dichloropropane	4.337	63	228418	12.797	ppbv	98
40) 1,4-Dioxane	4.609	88	104519	11.253	ppbv #	96
41) Tetrahydrofuran	3.068	42	271202	13.724	ppbv	100
42) Bromodichloromethane	4.512	83	461272	12.285	ppbv	96
43) Methyl Methacrylate	4.907	69	246468	11.105	ppbv	97
44) 2,2,4-Trimethylpentane	4.667	57	1054880	12.763	ppbv	99
45) t-1,3-Dichloropropene	6.444	75	249612	11.914	ppbv	95

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022525\
 Data File : VL042047.D
 Acq On : 25 Feb 2025 12:07
 Operator : SY/MD
 Sample : VSTDIC015
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 02/26/2025
 Supervised By :Mahesh Dadoda 02/26/2025

Quant Time: Feb 25 12:35:10 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M

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

QLast Update : Tue Feb 25 10:31:48 2025

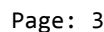
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.635	75	317266	11.935	ppbv	98
47) 1,1,2-Trichloroethane	6.609	97	226021	12.032	ppbv	95
48) Dibromochloromethane	7.412	129	369666	11.750	ppbv	99
49) Bromoform	9.503	173	317322	12.297	ppbv	99
50) 4-Methyl-2-Pentanone	5.787	43	650307	12.237	ppbv	99
51) 2-Hexanone	7.461	43	530165	12.198	ppbv #	100
52) Tetrachloroethene	8.247	164	203233	11.968	ppbv	94
53) Toluene	6.959	91	673822	11.615	ppbv	99
54) 1,2-Dibromoethane	7.677	107	309982	11.985	ppbv	95
56) 1,1,1,2-Tetrachloroethane	8.946	131	276326	10.979	ppbv	99
57) Chlorobenzene	8.943	112	494606	11.957	ppbv	98
58) Ethyl Benzene	9.373	91	922265	11.984	ppbv	100
59) m/p-Xylene	9.571	91	1456036m	24.020	ppbv	
60) o-Xylene	9.982	91	712735	11.626	ppbv	99
61) Styrene	9.888	104	363855	12.446	ppbv	99
62) Isopropylbenzene	10.558	105	1068777	11.612	ppbv	99
63) 1,1,2,2-Tetrachloroethane	9.982	83	459839	11.626	ppbv	100
64) n-propylbenzene	11.005	120	282364	12.486	ppbv	99
65) tert-Butylbenzene	11.548	119	924810	11.526	ppbv	99
66) Benzyl Chloride	11.633	91	78975	9.819	ppbv	98
67) sec-Butylbenzene	11.785	105	1315730	11.674	ppbv	99
69) p-Isopropyltoluene	11.940	119	1084253	11.752	ppbv	99
70) n-Butylbenzene	12.296	91	1118373	12.306	ppbv	99
71) 2-Chlorotoluene	10.917	91	818204	11.804	ppbv	100
72) 4-Ethyltoluene	11.141	105	880883	12.264	ppbv	99
73) 1,3,5-Trimethylbenzene	11.218	105	738619	11.921	ppbv	98
74) 1,2,4-Trimethylbenzene	11.552	105	784701	11.801	ppbv	91
75) 1,3-Dichlorobenzene	11.623	146	465436	13.003	ppbv	98
76) 1,4-Dichlorobenzene	11.688	146	467249	13.386	ppbv	99
77) 1,2-Dichlorobenzene	11.963	146	449222	13.129	ppbv	98
78) Hexachloro-1,3-Butadiene	13.895	225	351085	12.403	ppbv	100
79) Naphthalene	13.526	128	764990	11.696	ppbv	99
80) Naphthalene,2-methyl-	14.471	142	324431	10.956	ppbv	99
81) 1,2,4-Trichlorobenzene	13.455	180	354990	13.351	ppbv	99

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

Manual Integrations

Quant Time: Feb 25 12:35:10 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Tue Feb 25 10:31:48 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022525\
 Data File : VL042048.D
 Acq On : 25 Feb 2025 13:15
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL022525

Quant Time: Feb 26 01:31:59 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M

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

QLast Update : Wed Feb 26 01:08:36 2025

Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 02/26/2025
 Supervised By : Mahesh Dadoda 02/26/2025

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

Internal Standards						
1) Bromochloromethane	2.800	49	158881	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.981	114	406520	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.904	117	350262	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.393 95 274527 10.188 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 101.900%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.505	85	158709	9.606	ppbv	99
3) Chlorodifluoromethane	1.479	51	219646	9.512	ppbv	100
4) Chloromethane	1.537	50	54628	8.941	ppbv	100
5) Vinyl Chloride	1.586	62	52672	9.114	ppbv	98
6) Bromomethane	1.673	94	25374	9.221	ppbv	100
7) Chloroethane	1.709	64	22174	9.443	ppbv #	87
8) Dichlorotetrafluoroethane	1.560	85	127046	9.354	ppbv	100
9) Propene	1.489	41	90844	9.657	ppbv	96
10) Heptane	5.010	43	269133	9.188	ppbv	99
11) Trichlorofluoromethane	1.884	101	156871	9.476	ppbv	100
12) 1,1,2-Trichlorotrifluo...	2.149	101	115089	8.715	ppbv	99
13) Ethanol	1.728	45	2630	4.404	ppbv	98
14) Bromoethene	1.790	108	43546	9.338	ppbv	98
15) Acetone	1.842	43	118697	8.460	ppbv	97
16) 1,3-Butadiene	1.615	39	61603	9.434	ppbv	98
17) tert-Butyl alcohol	2.049	59	154116	8.779	ppbv	98
18) 1,1-Dichloroethene	2.042	96	51973	8.711	ppbv	98
19) Isopropyl Alcohol	1.894	45	69546	8.629	ppbv	96
20) Methylene Chloride	2.072	84	42028	7.919	ppbv	96
21) Allyl Chloride	2.104	41	90745	8.951	ppbv	98
22) trans-1,2-Dichloroethene	2.350	96	59140	8.502	ppbv	98
23) Vinyl Acetate	2.476	43	93605	9.488	ppbv #	98
24) 1,1-Dichloroethane	2.421	63	112869	8.721	ppbv	100
25) Ethyl Acetate	2.852	43	533113	9.492	ppbv	99
26) Hexane	2.839	57	208955	9.203	ppbv	97
27) Carbon Disulfide	2.159	76	138176	8.978	ppbv	97
28) Methyl tert-Butyl Ether	2.453	73	94554	8.365	ppbv	100
29) Chloroform	2.865	83	281191	9.202	ppbv	97
30) Cyclohexane	3.878	84	168830	9.161	ppbv	94
31) cis-1,2-Dichloroethene	2.735	61	199564	9.285	ppbv	99
32) 1,1,1-Trichloroethane	3.386	97	278512	9.396	ppbv	98
34) 2-Butanone	2.570	43	308064	9.727	ppbv	97
35) Carbon Tetrachloride	3.784	117	276599	9.867	ppbv	98
36) Benzene	3.677	78	399804	9.395	ppbv	98
37) 1,2-Dichloroethane	3.233	62	223946	9.491	ppbv	99
38) Trichloroethene	4.573	130	156488	9.005	ppbv	96
39) 1,2-Dichloropropane	4.340	63	152063	9.414	ppbv	97
40) 1,4-Dioxane	4.616	88	65010	8.817	ppbv #	98
41) Tetrahydrofuran	3.072	42	181453	9.696	ppbv	99
42) Bromodichloromethane	4.512	83	305385	9.606	ppbv	97
43) Methyl Methacrylate	4.910	69	160954	9.685	ppbv	95
44) 2,2,4-Trimethylpentane	4.667	57	712051	9.480	ppbv	99
45) t-1,3-Dichloropropene	6.447	75	159680	9.671	ppbv	90

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022525\
 Data File : VL042048.D
 Acq On : 25 Feb 2025 13:15
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL022525

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 02/26/2025
 Supervised By :Mahesh Dadoda 02/26/2025

Quant Time: Feb 26 01:31:59 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M

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

QLast Update : Wed Feb 26 01:08:36 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.635	75	206836	9.680	ppbv	96
47) 1,1,2-Trichloroethane	6.613	97	148220	9.039	ppbv	95
48) Dibromochloromethane	7.412	129	241593	9.407	ppbv	100
49) Bromoform	9.503	173	210370	9.432	ppbv	98
50) 4-Methyl-2-Pentanone	5.790	43	431123	10.526	ppbv	98
51) 2-Hexanone	7.464	43	354515	12.576	ppbv #	100
52) Tetrachloroethene	8.247	164	134062	9.202	ppbv	97
53) Toluene	6.962	91	448495	9.430	ppbv	98
54) 1,2-Dibromoethane	7.677	107	206335	9.307	ppbv	96
56) 1,1,1,2-Tetrachloroethane	8.946	131	182800	9.234	ppbv	99
57) Chlorobenzene	8.943	112	334696	9.216	ppbv	99
58) Ethyl Benzene	9.377	91	613622	9.513	ppbv	99
59) m/p-Xylene	9.571	91	977425m	19.041	ppbv	
60) o-Xylene	9.985	91	481683	9.334	ppbv	100
61) Styrene	9.891	104	241617	9.959	ppbv	99
62) Isopropylbenzene	10.558	105	729350	9.437	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.982	83	312794	9.204	ppbv	99
64) n-propylbenzene	11.008	120	192704	9.506	ppbv	99
65) tert-Butylbenzene	11.548	119	632202	8.988	ppbv	100
66) Benzyl Chloride	11.633	91	52645	9.808	ppbv	98
67) sec-Butylbenzene	11.785	105	914405	9.090	ppbv	99
69) p-Isopropyltoluene	11.940	119	753761	9.418	ppbv	100
70) n-Butylbenzene	12.296	91	781034	9.560	ppbv	99
71) 2-Chlorotoluene	10.917	91	559993	9.399	ppbv	100
72) 4-Ethyltoluene	11.144	105	602156	9.557	ppbv	99
73) 1,3,5-Trimethylbenzene	11.222	105	505451	9.248	ppbv	100
74) 1,2,4-Trimethylbenzene	11.555	105	547176	8.891	ppbv	95
75) 1,3-Dichlorobenzene	11.623	146	324491	9.161	ppbv	98
76) 1,4-Dichlorobenzene	11.688	146	322712	9.176	ppbv	99
77) 1,2-Dichlorobenzene	11.963	146	312159	9.081	ppbv	99
78) Hexachloro-1,3-Butadiene	13.895	225	228480	8.543	ppbv	99
79) Naphthalene	13.529	128	513148	12.160	ppbv	98
80) Naphthalene,2-methyl-	14.474	142	198077	17.152	ppbv	98
81) 1,2,4-Trichlorobenzene	13.455	180	234354	9.965	ppbv	97

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022525\
 Data File : VL042048.D
 Acq On : 25 Feb 2025 13:15
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL022525

Quant Time: Feb 26 01:31:59 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Wed Feb 26 01:08:36 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	99	0.00
2 T	Dichlorodifluoromethane	1.040	0.999	3.9	104	0.00
3	Chlorodifluoromethane	1.453	1.382	4.9	104	0.00
4	Chloromethane	0.385	0.344	10.6	99	0.00
5 T	Vinyl Chloride	0.364	0.332	8.8	97	0.00
6 T	Bromomethane	0.173	0.160	7.5	98	0.00
7	Chloroethane	0.148	0.140	5.4	102	0.00
8 T	Dichlorotetrafluoroethane	0.855	0.800	6.4	101	0.00
9 T	Propene	0.592	0.572	3.4	108	0.00
10 T	Heptane	1.844	1.694	8.1	100	0.00
11 T	Trichlorofluoromethane	1.042	0.987	5.3	103	0.00
12 T	1,1,2-Trichlorotrifluoroeth	0.831	0.724	12.9	102	0.00
13	Ethanol	0.038	0.017#	55.3#	83	0.00
14 T	Bromoethene	0.293	0.274	6.5	103	0.00
15 T	Acetone	0.883	0.747	15.4	103	0.00
16 T	1,3-Butadiene	0.411	0.388	5.6	107	0.00
17	tert-Butyl alcohol	1.105	0.970	12.2	101	0.00
18 T	1,1-Dichloroethene	0.376	0.327	13.0	101	0.00
19 T	Isopropyl Alcohol	0.507	0.438	13.6	103	0.00
20 T	Methylene Chloride	0.334	0.265	20.7	100	0.00
21 T	Allyl Chloride	0.638	0.571	10.5	105	0.00
22 T	trans-1,2-Dichloroethene	0.438	0.372	15.1	103	0.00
23 T	Vinyl Acetate	0.621	0.589	5.2	112	0.00
24 T	1,1-Dichloroethane	0.815	0.710	12.9	105	0.00
25 T	Ethyl Acetate	3.535	3.355	5.1	104	0.00
26 T	Hexane	1.429	1.315	8.0	101	0.00
27 T	Carbon Disulfide	0.969	0.870	10.2	100	0.00
28 T	Methyl tert-Butyl Ether	0.711	0.595	16.3	112	0.00
29 T	Chloroform	1.923	1.770	8.0	101	0.00
30 T	Cyclohexane	1.160	1.063	8.4	97	0.00
31 T	cis-1,2-Dichloroethene	1.353	1.256	7.2	100	0.00
32 T	1,1,1-Trichloroethane	1.866	1.753	6.1	98	0.00
33 I	1,4-Difluorobenzene	1.000	1.000	0.0	96	0.00
34 T	2-Butanone	0.779	0.758	2.7	105	0.00
35 T	Carbon Tetrachloride	0.690	0.680	1.4	100	0.00
36 T	Benzene	1.047	0.983	6.1	98	0.00
37 T	1,2-Dichloroethane	0.580	0.551	5.0	102	0.00
38 T	Trichloroethene	0.427	0.385	9.8	98	0.00
39 T	1,2-Dichloropropane	0.397	0.374	5.8	101	0.00
40 T	1,4-Dioxane	0.181	0.160	11.6	94	0.00
41 T	Tetrahydrofuran	0.460	0.446	3.0	103	0.00
42 T	Bromodichloromethane	0.782	0.751	4.0	98	0.00
43	Methyl Methacrylate	0.409	0.396	3.2	97	0.00
44 T	2,2,4-Trimethylpentane	1.848	1.752	5.2	101	0.00
45 T	t-1,3-Dichloropropene	0.406	0.393	3.2	96	0.00
46 T	cis-1,3-Dichloropropene	0.526	0.509	3.2	95	0.00
47 T	1,1,2-Trichloroethane	0.403	0.365	9.4	97	0.00
48 T	Dibromochloromethane	0.632	0.594	6.0	96	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022525\
 Data File : VL042048.D
 Acq On : 25 Feb 2025 13:15
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL022525

Quant Time: Feb 26 01:31:59 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Wed Feb 26 01:08:36 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	0.549	0.517	5.8	95	0.00
50 T	4-Methyl-2-Pentanone	1.008	1.061	-5.3	101	0.00
51 T	2-Hexanone	0.693	0.872	-25.8	101	0.00
52 T	Tetrachloroethene	0.358	0.330	7.8	97	0.00
53 T	Toluene	1.170	1.103	5.7	97	0.00
54 T	1,2-Dibromoethane	0.545	0.508	6.8	98	0.00
55 I	Chlorobenzene-d5	1.000	1.000	0.0	94	0.00
56	1,1,1,2-Tetrachloroethane	0.565	0.522	7.6	97	0.00
57 T	Chlorobenzene	1.037	0.956	7.8	98	0.00
58 T	Ethyl Benzene	1.842	1.752	4.9	97	0.00
59 T	m/p-Xylene	1.466	1.395	4.8	98	0.02
60 T	o-Xylene	1.473	1.375	6.7	98	0.00
61 T	Styrene	0.693	0.690	0.4	98	0.00
62	Isopropylbenzene	2.207	2.082	5.7	99	0.00
63 T	1,1,2,2-Tetrachloroethane	0.970	0.893	7.9	99	0.00
64	n-propylbenzene	0.579	0.550	5.0	98	0.00
65	tert-Butylbenzene	2.008	1.805	10.1	97	0.00
66 T	Benzyl Chloride	0.153	0.150	2.0	92	0.00
67	sec-Butylbenzene	2.872	2.611	9.1	98	0.00
68 S	1-Bromo-4-Fluorobenzene	0.769	0.784	-2.0	96	0.00
69	p-Isopropyltoluene	2.285	2.152	5.8	100	0.00
70	n-Butylbenzene	2.332	2.230	4.4	101	0.00
71	2-Chlorotoluene	1.701	1.599	6.0	99	0.00
72 T	4-Ethyltoluene	1.799	1.719	4.4	99	0.00
73 T	1,3,5-Trimethylbenzene	1.560	1.443	7.5	98	0.00
74 T	1,2,4-Trimethylbenzene	1.757	1.562	11.1	99	0.00
75 T	1,3-Dichlorobenzene	1.011	0.926	8.4	100	0.00
76 T	1,4-Dichlorobenzene	1.004	0.921	8.3	100	0.00
77 T	1,2-Dichlorobenzene	0.981	0.891	9.2	100	0.00
78 T	Hexachloro-1,3-Butadiene	0.764	0.652	14.7	96	0.00
79 T	Naphthalene	1.205	1.465	-21.6	100	0.00
80 T	Naphthalene,2-methyl-	0.330	0.566	-71.5#	94	0.00
81 T	1,2,4-Trichlorobenzene	0.671	0.669	0.3	97	0.00

(#) = Out of Range

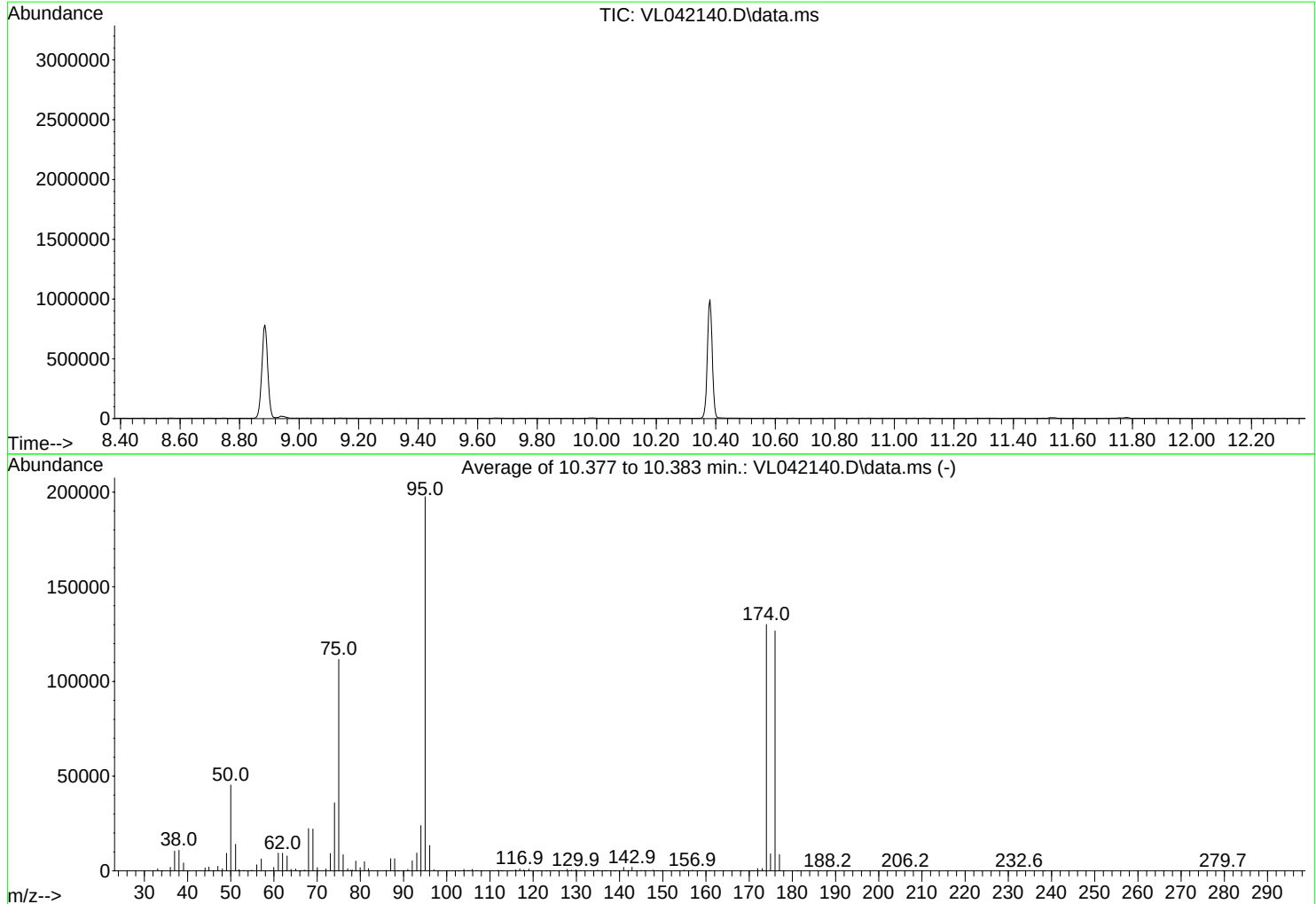
SPCC's out = 0 CCC's out = 0

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL031425\
Data File : VL042140.D
Acq On : 14 Mar 2025 07:56
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\VL022525AIR.M
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
Last Update : Wed Feb 26 01:08:36 2025



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

Target	Rel. to	Lower	Upper	Rel.	Raw	Result
Mass	Mass	Limit%	Limit%	Abn%	Abn	Pass/Fail
50	95	8	40	22.9	45333	PASS
75	95	30	66	56.5	111685	PASS
95	95	100	100	100.0	197589	PASS
96	95	5	9	6.8	13388	PASS
173	174	0.00	2	1.0	1315	PASS
174	95	50	120	65.9	130120	PASS
175	174	4	9	6.9	8967	PASS
176	174	93	101	97.4	126715	PASS
177	176	5	9	6.8	8618	PASS

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL031425\
 Data File : VL042141.D
 Acq On : 14 Mar 2025 08:39
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 03/17/2025
 Supervised By : Mahesh Dadoda 03/17/2025

Quant Time: Mar 14 23:16:35 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M

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

QLast Update : Wed Feb 26 01:08:36 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.784	49	175939	10.000	ppbv	-0.02
33) 1,4-Difluorobenzene	3.959	114	420429	10.000	ppbv	-0.02
55) Chlorobenzene-d5	8.882	117	358414	10.000	ppbv	-0.02

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.377 95 293332 10.638 ppbv -0.02
 Spiked Amount 10.000 Range 65 - 135 Recovery = 106.400%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.499	85	191974	10.493	ppbv	100
3) Chlorodifluoromethane	1.476	51	228149	8.922	ppbv	100
4) Chloromethane	1.532	50	72618	10.733	ppbv	97
5) Vinyl Chloride	1.580	62	70955	11.087	ppbv	96
6) Bromomethane	1.667	94	34387	11.284	ppbv	97
7) Chloroethane	1.703	64	27399	10.537	ppbv	94
8) Dichlorotetrafluoroethane	1.554	85	161623	10.746	ppbv	98
9) Propene	1.483	41	95933	9.209	ppbv	98
10) Heptane	4.979	43	269945	8.323	ppbv	98
11) Trichlorofluoromethane	1.875	101	202929	11.070	ppbv	97
12) 1,1,2-Trichlorotrifluo...	2.137	101	150319	10.280	ppbv	96
13) Ethanol	1.719	45	5940	8.982	ppbv	91
14) Bromoethene	1.781	108	55223	10.694	ppbv	99
15) Acetone	1.836	43	157921	10.164	ppbv	98
16) 1,3-Butadiene	1.609	39	76015	10.513	ppbv	99
17) tert-Butyl alcohol	2.040	59	177586	9.136	ppbv	100
18) 1,1-Dichloroethene	2.033	96	64716	9.795	ppbv	92
19) Isopropyl Alcohol	1.884	45	90039	10.088	ppbv	96
20) Methylene Chloride	2.059	84	64336	10.947	ppbv	97
21) Allyl Chloride	2.095	41	113949	10.150	ppbv	97
22) trans-1,2-Dichloroethene	2.341	96	80485	10.449	ppbv	90
23) Vinyl Acetate	2.460	43	94433	8.644	ppbv	99
24) 1,1-Dichloroethane	2.409	63	154561	10.784	ppbv	99
25) Ethyl Acetate	2.836	43	552236	8.880	ppbv	99
26) Hexane	2.823	57	224625	8.934	ppbv	98
27) Carbon Disulfide	2.150	76	186073	10.918	ppbv	99
28) Methyl tert-Butyl Ether	2.438	73	106326	8.494	ppbv	99
29) Chloroform	2.849	83	296552	8.764	ppbv	99
30) Cyclohexane	3.855	84	163459	8.010	ppbv	95
31) cis-1,2-Dichloroethene	2.719	61	193004	8.109	ppbv	98
32) 1,1,1-Trichloroethane	3.367	97	268630	8.184	ppbv	95
34) 2-Butanone	2.558	43	305355	9.323	ppbv	96
35) Carbon Tetrachloride	3.762	117	279849	9.653	ppbv	99
36) Benzene	3.655	78	399974	9.088	ppbv	95
37) 1,2-Dichloroethane	3.218	62	217321	8.906	ppbv	100
38) Trichloroethene	4.548	130	152158	8.466	ppbv	96
39) 1,2-Dichloropropane	4.315	63	150906	9.033	ppbv	96
40) 1,4-Dioxane	4.580	88	67340	8.830	ppbv #	99
41) Tetrahydrofuran	3.056	42	174452	9.014	ppbv	98
42) Bromodichloromethane	4.487	83	307764	9.361	ppbv	93
43) Methyl Methacrylate	4.881	69	145265	8.451	ppbv	96
44) 2,2,4-Trimethylpentane	4.635	57	717940	9.243	ppbv	98
45) t-1,3-Dichloropropene	6.412	75	135149	7.914	ppbv	95

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL031425\
 Data File : VL042141.D
 Acq On : 14 Mar 2025 08:39
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 03/17/2025
 Supervised By :Mahesh Dadoda 03/17/2025

Quant Time: Mar 14 23:16:35 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M

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

QLast Update : Wed Feb 26 01:08:36 2025

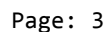
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.603	75	183303	8.295	ppbv	98
47) 1,1,2-Trichloroethane	6.581	97	154904	9.134	ppbv	96
48) Dibromochloromethane	7.387	129	239456	9.015	ppbv	98
49) Bromoform	9.484	173	213827	9.270	ppbv	99
50) 4-Methyl-2-Pentanone	5.755	43	408504	9.644	ppbv	96
51) 2-Hexanone	7.438	43	316988	10.872	ppbv #	98
52) Tetrachloroethene	8.225	164	129959	8.625	ppbv	98
53) Toluene	6.933	91	423735	8.614	ppbv	98
54) 1,2-Dibromoethane	7.652	107	201881	8.805	ppbv	90
56) 1,1,1,2-Tetrachloroethane	8.924	131	192287	9.492	ppbv	100
57) Chlorobenzene	8.921	112	344848	9.280	ppbv	99
58) Ethyl Benzene	9.354	91	572580	8.675	ppbv	100
59) m/p-Xylene	9.552	91	960961m	18.294	ppbv	
60) o-Xylene	9.963	91	485048	9.185	ppbv	99
61) Styrene	9.872	104	211885	8.535	ppbv	99
62) Isopropylbenzene	10.539	105	718498	9.085	ppbv	99
63) 1,1,2,2-Tetrachloroethane	9.963	83	341487	9.820	ppbv	100
64) n-propylbenzene	10.989	120	196285	9.462	ppbv	100
65) tert-Butylbenzene	11.533	119	655886	9.113	ppbv	98
66) Benzyl Chloride	11.617	91	45818	8.342	ppbv	97
67) sec-Butylbenzene	11.769	105	924266	8.979	ppbv	98
69) p-Isopropyltoluene	11.928	119	753153	9.197	ppbv	99
70) n-Butylbenzene	12.280	91	771737	9.232	ppbv	100
71) 2-Chlorotoluene	10.902	91	537863	8.822	ppbv	100
72) 4-Ethyltoluene	11.125	105	585082	9.074	ppbv	99
73) 1,3,5-Trimethylbenzene	11.203	105	494157	8.836	ppbv	98
74) 1,2,4-Trimethylbenzene	11.536	105	560827	8.905	ppbv	92
75) 1,3-Dichlorobenzene	11.607	146	336601	9.287	ppbv	98
76) 1,4-Dichlorobenzene	11.672	146	327927	9.113	ppbv	99
77) 1,2-Dichlorobenzene	11.947	146	330229	9.389	ppbv	99
78) Hexachloro-1,3-Butadiene	13.883	225	230108	8.408	ppbv	99
79) Naphthalene	13.514	128	481899	11.160	ppbv	100
80) Naphthalene,2-methyl-	14.459	142	151227	12.797	ppbv	99
81) 1,2,4-Trichlorobenzene	13.439	180	219258	9.111	ppbv	99

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

Manual Integrations

Quant Time: Mar 14 23:16:35 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Wed Feb 26 01:08:36 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL031425\
 Data File : VL042141.D
 Acq On : 14 Mar 2025 08:39
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 LabSampleId :
 VSTDCCC010

Quant Time: Mar 14 23:16:35 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Wed Feb 26 01:08:36 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	109	-0.02
2 T	Dichlorodifluoromethane	1.040	1.091	-4.9	126	0.00
3	Chlorodifluoromethane	1.453	1.297	10.7	108	0.00
4	Chloromethane	0.385	0.413	-7.3	131	0.00
5 T	Vinyl Chloride	0.364	0.403	-10.7	131	0.00
6 T	Bromomethane	0.173	0.195	-12.7	133	0.00
7	Chloroethane	0.148	0.156	-5.4	126	0.00
8 T	Dichlorotetrafluoroethane	0.855	0.919	-7.5	129	0.00
9 T	Propene	0.592	0.545	7.9	114	0.00
10 T	Heptane	1.844	1.534	16.8	101	-0.03
11 T	Trichlorofluoromethane	1.042	1.153	-10.7	133	0.00
12 T	1,1,2-Trichlorotrifluoroeth	0.831	0.854	-2.8	134	0.00
13	Ethanol	0.038	0.034#	10.5	187#	0.00
14 T	Bromoethene	0.293	0.314	-7.2	130	0.00
15 T	Acetone	0.883	0.898	-1.7	137	0.00
16 T	1,3-Butadiene	0.411	0.432	-5.1	132	0.00
17	tert-Butyl alcohol	1.105	1.009	8.7	116	0.00
18 T	1,1-Dichloroethene	0.376	0.368	2.1	126	0.00
19 T	Isopropyl Alcohol	0.507	0.512	-1.0	133	0.00
20 T	Methylene Chloride	0.334	0.366	-9.6	153#	0.00
21 T	Allyl Chloride	0.638	0.648	-1.6	131	0.00
22 T	trans-1,2-Dichloroethene	0.438	0.457	-4.3	140	0.00
23 T	Vinyl Acetate	0.621	0.537	13.5	113	-0.01
24 T	1,1-Dichloroethane	0.815	0.878	-7.7	143	0.00
25 T	Ethyl Acetate	3.535	3.139	11.2	108	-0.02
26 T	Hexane	1.429	1.277	10.6	109	-0.02
27 T	Carbon Disulfide	0.969	1.058	-9.2	135	0.00
28 T	Methyl tert-Butyl Ether	0.711	0.604	15.0	126	-0.01
29 T	Chloroform	1.923	1.686	12.3	107	-0.01
30 T	Cyclohexane	1.160	0.929	19.9	94	-0.02
31 T	cis-1,2-Dichloroethene	1.353	1.097	18.9	97	-0.01
32 T	1,1,1-Trichloroethane	1.866	1.527	18.2	94	-0.02
33 I	1,4-Difluorobenzene	1.000	1.000	0.0	99	-0.02
34 T	2-Butanone	0.779	0.726	6.8	104	-0.01
35 T	Carbon Tetrachloride	0.690	0.666	3.5	101	-0.02
36 T	Benzene	1.047	0.951	9.2	98	-0.02
37 T	1,2-Dichloroethane	0.580	0.517	10.9	99	-0.02
38 T	Trichloroethene	0.427	0.362	15.2	95	-0.02
39 T	1,2-Dichloropropane	0.397	0.359	9.6	100	-0.02
40 T	1,4-Dioxane	0.181	0.160	11.6	97	-0.03
41 T	Tetrahydrofuran	0.460	0.415	9.8	99	-0.02
42 T	Bromodichloromethane	0.782	0.732	6.4	99	-0.03
43	Methyl Methacrylate	0.409	0.346	15.4	88	-0.03
44 T	2,2,4-Trimethylpentane	1.848	1.708	7.6	102	-0.03
45 T	t-1,3-Dichloropropene	0.406	0.321	20.9	81	-0.03
46 T	cis-1,3-Dichloropropene	0.526	0.436	17.1	84	-0.03
47 T	1,1,2-Trichloroethane	0.403	0.368	8.7	102	-0.03
48 T	Dibromochloromethane	0.632	0.570	9.8	95	-0.03

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL031425\
 Data File : VL042141.D
 Acq On : 14 Mar 2025 08:39
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 LabSampleId :
 VSTDCCC010

Quant Time: Mar 14 23:16:35 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Wed Feb 26 01:08:36 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	0.549	0.509	7.3	96	-0.02
50 T	4-Methyl-2-Pentanone	1.008	0.972	3.6	95	-0.03
51 T	2-Hexanone	0.693	0.754	-8.8	90	-0.03
52 T	Tetrachloroethene	0.358	0.309	13.7	94	-0.02
53 T	Toluene	1.170	1.008	13.8	92	-0.03
54 T	1,2-Dibromoethane	0.545	0.480	11.9	95	-0.03
55 I	Chlorobenzene-d5	1.000	1.000	0.0	96	-0.02
56	1,1,1,2-Tetrachloroethane	0.565	0.536	5.1	102	-0.02
57 T	Chlorobenzene	1.037	0.962	7.2	101	-0.02
58 T	Ethyl Benzene	1.842	1.598	13.2	90	-0.02
59 T	m/p-Xylene	1.466	1.341	8.5	97	0.00
60 T	o-Xylene	1.473	1.353	8.1	98	-0.02
61 T	Styrene	0.693	0.591	14.7	86	-0.02
62	Isopropylbenzene	2.207	2.005	9.2	98	-0.02
63 T	1,1,2,2-Tetrachloroethane	0.970	0.953	1.8	108	-0.02
64	n-propylbenzene	0.579	0.548	5.4	100	-0.02
65	tert-Butylbenzene	2.008	1.830	8.9	101	-0.01
66 T	Benzyl Chloride	0.153	0.128	16.3	80	-0.01
67	sec-Butylbenzene	2.872	2.579	10.2	100	-0.01
68 S	1-Bromo-4-Fluorobenzene	0.769	0.818	-6.4	103	-0.02
69	p-Isopropyltoluene	2.285	2.101	8.1	100	-0.01
70	n-Butylbenzene	2.332	2.153	7.7	100	-0.02
71	2-Chlorotoluene	1.701	1.501	11.8	95	-0.02
72 T	4-Ethyltoluene	1.799	1.632	9.3	96	-0.02
73 T	1,3,5-Trimethylbenzene	1.560	1.379	11.6	96	-0.02
74 T	1,2,4-Trimethylbenzene	1.757	1.565	10.9	102	-0.02
75 T	1,3-Dichlorobenzene	1.011	0.939	7.1	104	-0.02
76 T	1,4-Dichlorobenzene	1.004	0.915	8.9	102	-0.01
77 T	1,2-Dichlorobenzene	0.981	0.921	6.1	106	-0.02
78 T	Hexachloro-1,3-Butadiene	0.764	0.642	16.0	97	-0.01
79 T	Naphthalene	1.205	1.345	-11.6	94	-0.01
80 T	Naphthalene,2-methyl-	0.330	0.422	-27.9	72	-0.01
81 T	1,2,4-Trichlorobenzene	0.671	0.612	8.8	91	-0.02

(#) = Out of Range

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL031425\
 Data File : VL042142.D
 Acq On : 14 Mar 2025 09:23
 Operator : SY/MD
 Sample : VL0314ABL01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0314ABL01

Quant Time: Mar 14 23:17:29 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Wed Feb 26 01:08:36 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.787	49	167826	10.000	ppbv	-0.01
33) 1,4-Difluorobenzene	3.958	114	392046	10.000	ppbv	-0.02
55) Chlorobenzene-d5	8.881	117	329113	10.000	ppbv	-0.02

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.377	95	250856	9.907	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.100%

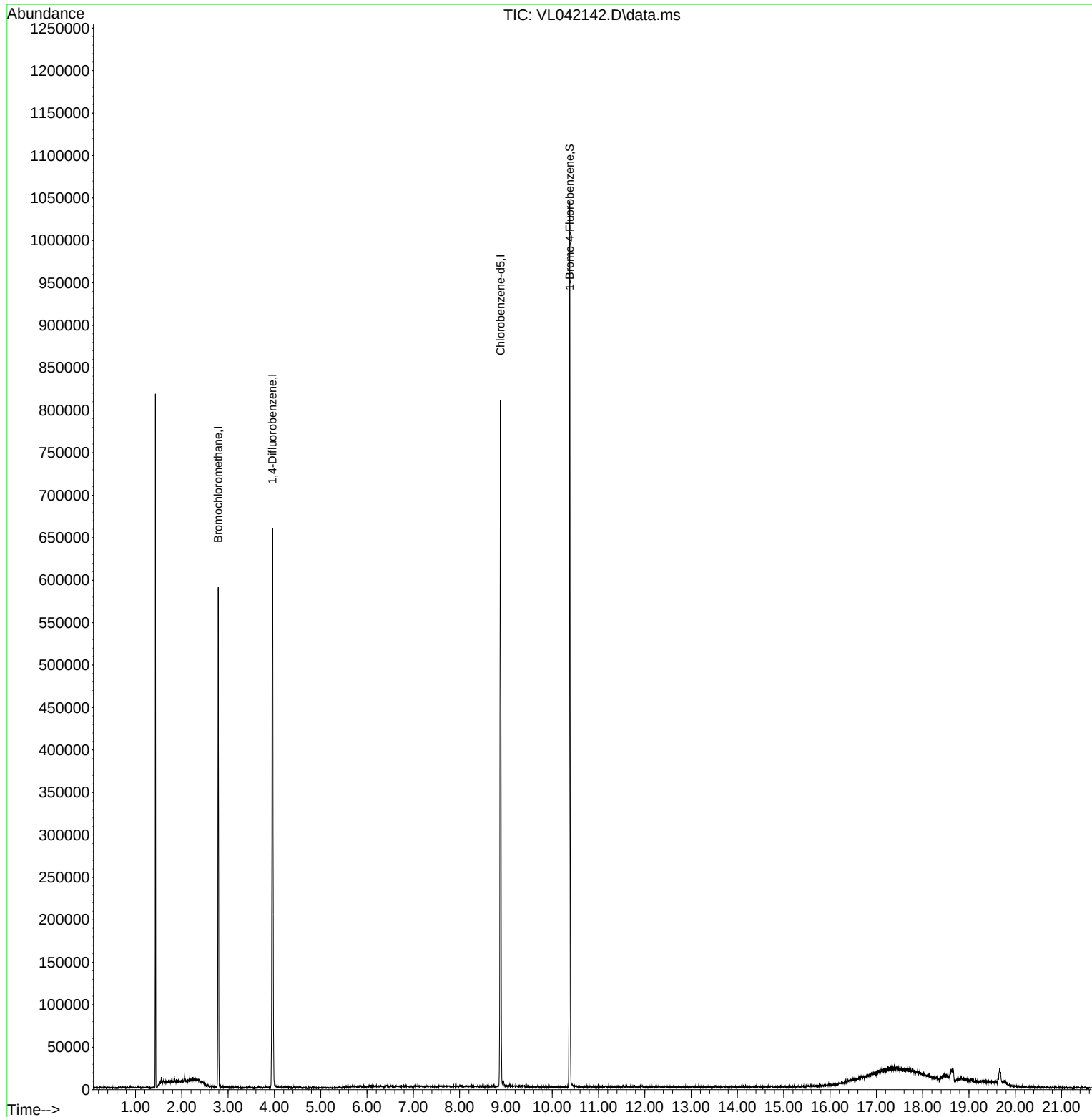
Target Compounds	Qvalue

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL031425\
Data File : VL042142.D
Acq On : 14 Mar 2025 09:23
Operator : SY/MD
Sample : VL0314ABL01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VL0314ABL01

Quant Time: Mar 14 23:17:29 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Wed Feb 26 01:08:36 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL031425\
 Data File : VL042145.D
 Acq On : 14 Mar 2025 11:11
 Operator : SY/MD
 Sample : QC031325 CAN 10266
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 QC031325 CAN 10266

Quant Time: Mar 15 06:25:42 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Wed Feb 26 01:08:36 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.784	49	156307	10.000	ppbv	-0.02
33) 1,4-Difluorobenzene	3.955	114	350286	10.000	ppbv	-0.02
55) Chlorobenzene-d5	8.878	117	303615	10.000	ppbv	-0.02

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.374	95	230207	9.855	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.600%

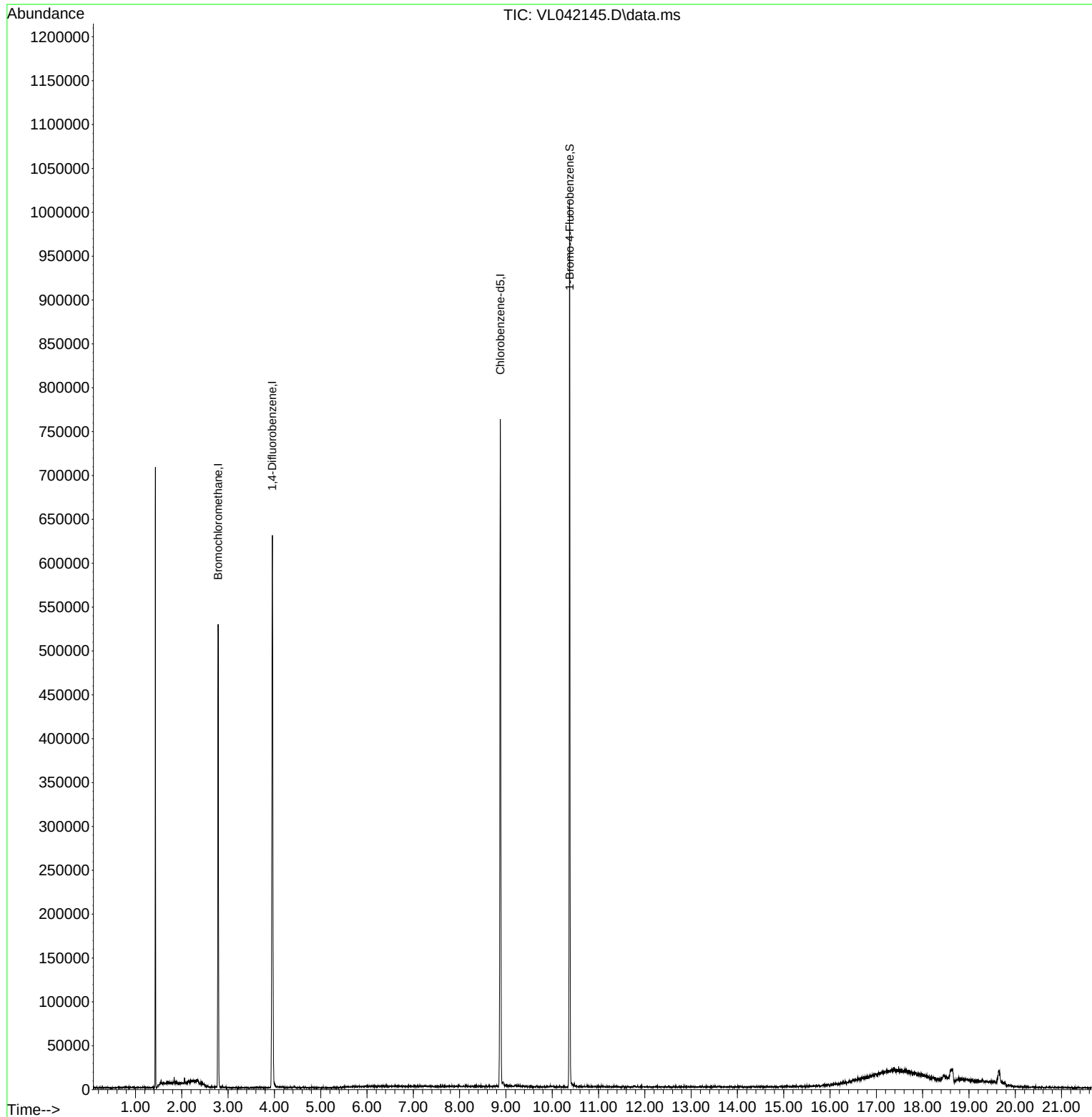
Target Compounds	Qvalue

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL031425\
Data File : VL042145.D
Acq On : 14 Mar 2025 11:11
Operator : SY/MD
Sample : QC031325 CAN 10266
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
QC031325 CAN 10266

Quant Time: Mar 15 06:25:42 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Wed Feb 26 01:08:36 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL031425\
 Data File : VL042146.D
 Acq On : 14 Mar 2025 12:27
 Operator : SY/MD
 Sample : VL0314ABS01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0314ABS01

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 03/17/2025
 Supervised By : Mahesh Dadoda 03/17/2025

Quant Time: Mar 14 23:18:44 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M

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

QLast Update : Wed Feb 26 01:08:36 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.790	49	163026	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.959	114	381842	10.000	ppbv	-0.02
55) Chlorobenzene-d5	8.885	117	325786	10.000	ppbv	-0.02

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.380 95 276407 11.028 ppbv -0.01
 Spiked Amount 10.000 Range 65 - 135 Recovery = 110.300%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.499	85	183411	10.819	ppbv	99
3) Chlorodifluoromethane	1.476	51	224569	9.478	ppbv	99
4) Chloromethane	1.534	50	72105	11.502	ppbv	95
5) Vinyl Chloride	1.580	62	69189	11.667	ppbv	98
6) Bromomethane	1.667	94	31681	11.220	ppbv	96
7) Chloroethane	1.706	64	27615	11.461	ppbv	92
8) Dichlorotetrafluoroethane	1.554	85	159489	11.444	ppbv	99
9) Propene	1.486	41	85053	8.811	ppbv	99
10) Heptane	4.985	43	257569	8.570	ppbv	99
11) Trichlorofluoromethane	1.877	101	201423	11.858	ppbv	99
12) 1,1,2-Trichlorotrifluo...	2.140	101	144035	10.630	ppbv	97
13) Ethanol	1.722	45	5622	9.175	ppbv	97
14) Bromoethene	1.784	108	55222	11.541	ppbv	97
15) Acetone	1.835	43	154842	10.755	ppbv	98
16) 1,3-Butadiene	1.609	39	74468	11.115	ppbv	99
17) tert-Butyl alcohol	2.042	59	168993	9.382	ppbv	96
18) 1,1-Dichloroethene	2.036	96	64700	10.568	ppbv	97
19) Isopropyl Alcohol	1.887	45	85819	10.377	ppbv #	35
20) Methylene Chloride	2.062	84	64018	11.756	ppbv	96
21) Allyl Chloride	2.098	41	110336	10.607	ppbv	97
22) trans-1,2-Dichloroethene	2.340	96	72399	10.144	ppbv	99
23) Vinyl Acetate	2.463	43	87289	8.623	ppbv #	94
24) 1,1-Dichloroethane	2.411	63	140322	10.566	ppbv	99
25) Ethyl Acetate	2.839	43	528086	9.164	ppbv	100
26) Hexane	2.826	57	215050	9.231	ppbv	98
27) Carbon Disulfide	2.153	76	170348	10.787	ppbv	100
28) Methyl tert-Butyl Ether	2.444	73	91925	7.925	ppbv	98
29) Chloroform	2.852	83	284422	9.071	ppbv	98
30) Cyclohexane	3.861	84	155818	8.240	ppbv	94
31) cis-1,2-Dichloroethene	2.722	61	180243	8.173	ppbv	99
32) 1,1,1-Trichloroethane	3.369	97	256963	8.448	ppbv	95
34) 2-Butanone	2.560	43	289331	9.726	ppbv	95
35) Carbon Tetrachloride	3.764	117	267662	10.165	ppbv	97
36) Benzene	3.661	78	376328	9.415	ppbv	99
37) 1,2-Dichloroethane	3.221	62	209658	9.460	ppbv	99
38) Trichloroethene	4.554	130	143571	8.796	ppbv	94
39) 1,2-Dichloropropane	4.318	63	142402	9.386	ppbv	97
40) 1,4-Dioxane	4.590	88	65583	9.469	ppbv #	98
41) Tetrahydrofuran	3.059	42	161433	9.184	ppbv	97
42) Bromodichloromethane	4.493	83	289116	9.682	ppbv	99
43) Methyl Methacrylate	4.884	69	133935	8.580	ppbv	95
44) 2,2,4-Trimethylpentane	4.645	57	687261	9.742	ppbv	98
45) t-1,3-Dichloropropene	6.418	75	122213	7.880	ppbv	97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL031425\
 Data File : VL042146.D
 Acq On : 14 Mar 2025 12:27
 Operator : SY/MD
 Sample : VL0314ABS01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0314ABS01

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 03/17/2025
 Supervised By :Mahesh Dadoda 03/17/2025

Quant Time: Mar 14 23:18:44 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M

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

QLast Update : Wed Feb 26 01:08:36 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.606	75	173008	8.620	ppbv	98
47) 1,1,2-Trichloroethane	6.590	97	148902	9.667	ppbv	96
48) Dibromochloromethane	7.393	129	230834	9.569	ppbv	98
49) Bromoform	9.487	173	207997	9.928	ppbv	98
50) 4-Methyl-2-Pentanone	5.761	43	388572	10.100	ppbv	95
51) 2-Hexanone	7.444	43	302871	11.438	ppbv #	97
52) Tetrachloroethene	8.228	164	123920	9.056	ppbv	98
53) Toluene	6.940	91	392631	8.789	ppbv	98
54) 1,2-Dibromoethane	7.655	107	196312	9.427	ppbv	97
56) 1,1,1,2-Tetrachloroethane	8.930	131	188895	10.258	ppbv	99
57) Chlorobenzene	8.924	112	335300	9.927	ppbv	98
58) Ethyl Benzene	9.357	91	553145	9.220	ppbv	99
59) m/p-Xylene	9.555	91	938027m	19.646	ppbv	
60) o-Xylene	9.966	91	472738	9.849	ppbv	99
61) Styrene	9.875	104	200572	8.888	ppbv	99
62) Isopropylbenzene	10.542	105	698706	9.720	ppbv	98
63) 1,1,2,2-Tetrachloroethane	9.966	83	335051	10.599	ppbv	99
64) n-propylbenzene	10.992	120	189167	10.032	ppbv	99
65) tert-Butylbenzene	11.536	119	645167	9.861	ppbv	99
66) Benzyl Chloride	11.620	91	46836	9.382	ppbv	97
67) sec-Butylbenzene	11.772	105	930077	9.940	ppbv	99
69) p-Isopropyltoluene	11.930	119	755360	10.147	ppbv	99
70) n-Butylbenzene	12.283	91	760425	10.007	ppbv	100
71) 2-Chlorotoluene	10.904	91	519669	9.378	ppbv	99
72) 4-Ethyltoluene	11.128	105	580446	9.904	ppbv	99
73) 1,3,5-Trimethylbenzene	11.209	105	489177	9.623	ppbv	99
74) 1,2,4-Trimethylbenzene	11.542	105	558174	9.751	ppbv	94
75) 1,3-Dichlorobenzene	11.610	146	329807	10.011	ppbv	100
76) 1,4-Dichlorobenzene	11.675	146	327949	10.026	ppbv	100
77) 1,2-Dichlorobenzene	11.950	146	329758	10.314	ppbv	100
78) Hexachloro-1,3-Butadiene	13.885	225	227664	9.152	ppbv	99
79) Naphthalene	13.516	128	477761	12.172	ppbv	99
80) Naphthalene,2-methyl-	14.461	142	148881	13.860	ppbv	100
81) 1,2,4-Trichlorobenzene	13.445	180	217204	9.930	ppbv	100

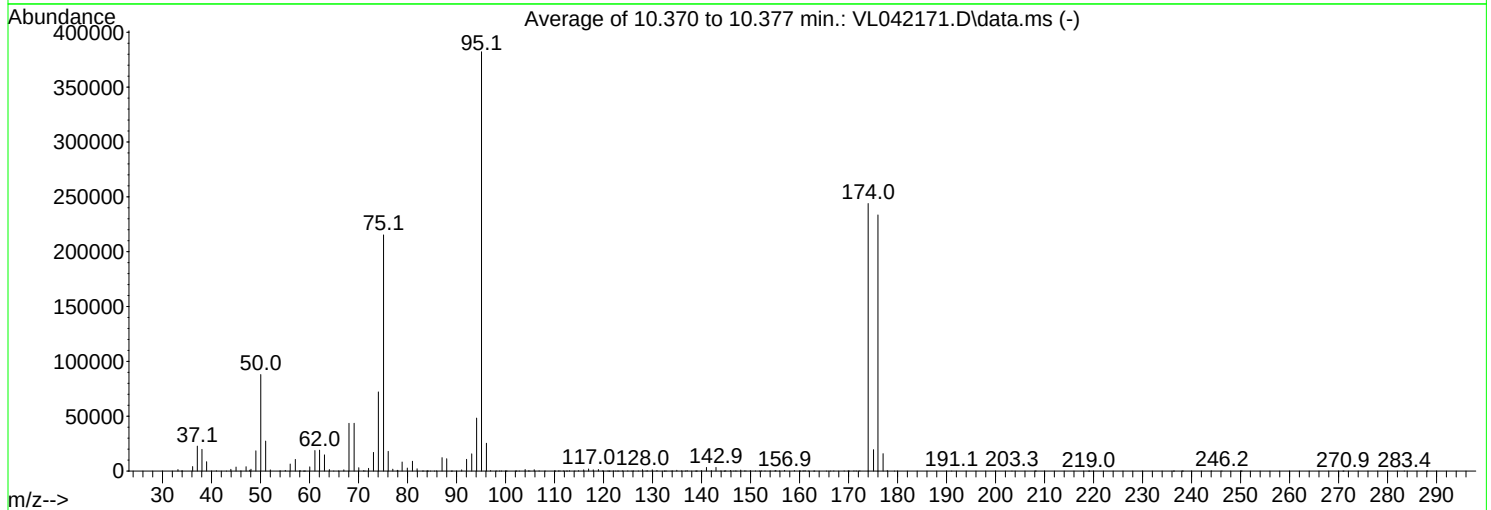
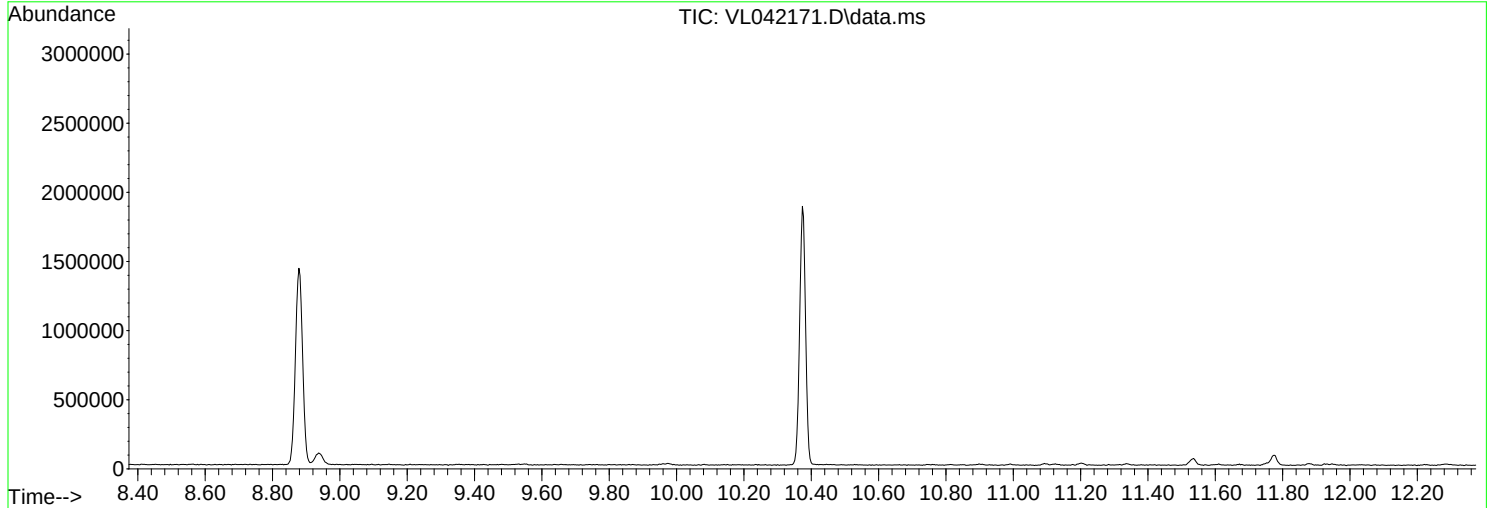
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
Data File : VL042171.D
Acq On : 27 Mar 2025 07:44
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\VL032725AIR.M
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
Last Update : Fri Mar 28 02:00:52 2025



AutoFind: Scans 3177, 3178, 3179; Background Corrected with Scan 3150

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	23.0	87995	PASS
75	95	30	66	56.3	215296	PASS
95	95	100	100	100.0	382268	PASS
96	95	5	9	6.6	25383	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	63.8	243904	PASS
175	174	4	9	8.0	19539	PASS
176	174	93	101	95.7	233493	PASS
177	176	5	9	6.8	15877	PASS

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

Method File : VL032725AIR.M

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

Last Update : Fri Mar 28 02:00:52 2025

Response Via : Initial Calibration

Calibration Files

0.03=VL042177.D 0.1 =VL042176.D 0.5 =VL042175.D 1 =VL042174.D 2 =VL042173.D 10 =VL042172.D 15 =VL042178.D

Compound	0.03	0.1	0.5	1	2	10	15	Avg	%RSD

1) I Bromochloromethane	-----ISTD-----								
2) T Dichlorodifluo...			1.602	1.514	1.482	1.404	1.380	1.476	6.03
3) Chlorodifluoro...			1.622	1.541	1.514	1.457	1.408	1.508	5.41
4) Chloromethane			0.660	0.597	0.618	0.573	0.570	0.603	6.17
5) T Vinyl Chloride	0.882	0.705	0.635	0.576	0.584	0.549	0.546	0.639	18.84
6) T Bromomethane			0.327	0.268	0.266	0.256	0.250	0.273	11.20
7) Chloroethane			0.286	0.248	0.223	0.227	0.226	0.242	10.92
8) T Dichlorotetra...			1.306	1.283	1.274	1.214	1.211	1.257	3.40
9) T Propene			0.734	0.736	0.698	0.660	0.630	0.691	6.69
10) T Heptane			1.847	1.940	1.897	1.792	1.719	1.839	4.73
11) T Trichlorofluor...			1.562	1.457	1.480	1.339	1.346	1.437	6.59
12) T 1,1,2-Trichlor...			1.247	1.215	1.188	1.120	1.135	1.181	4.52
13) Ethanol			0.110	0.086	0.073	0.029	0.028	0.065	55.48
14) T Bromoethene			0.529	0.447	0.460	0.417	0.409	0.452	10.47
15) T Acetone			1.699	1.573	1.469	1.113	1.139	1.399	18.73
16) T 1,3-Butadiene			0.952	0.705	0.608	0.573	0.577	0.683	23.38
17) tert-Butyl alc...			1.935	1.799	1.756	1.618	1.601	1.742	7.91
18) T 1,1-Dichloroet...			0.624	0.565	0.560	0.504	0.507	0.552	8.99
19) T Isopropyl Alcohol			1.016	0.800	0.738	0.702	0.689	0.789	16.99
20) T Methylene Chlo...			0.624	0.563	0.545	0.438	0.435	0.521	15.85
21) T Allyl Chloride			1.067	1.022	1.020	0.902	0.921	0.986	7.25
22) T trans-1,2-Dich...			0.704	0.701	0.621	0.590	0.575	0.638	9.56
23) T Vinyl Acetate			0.754	0.692	0.550	0.498	0.532	0.605	18.40
24) T 1,1-Dichloroet...			1.247	1.208	1.187	1.122	1.149	1.183	4.17
25) T Ethyl Acetate			4.017	3.619	3.703	3.457	3.353	3.630	7.06
26) T Hexane			1.507	1.462	1.383	1.333	1.325	1.402	5.71
27) T Carbon Disulfide			1.608	1.512	1.538	1.436	1.423	1.503	5.07
28) T Methyl tert-Bu...			0.921	0.886	0.894	0.831	0.832	0.873	4.56
29) T Chloroform			2.233	2.068	2.071	1.932	1.956	2.052	5.81
30) T Cyclohexane			1.337	1.238	1.211	1.162	1.140	1.217	6.33
31) T cis-1,2-Dichlo...			1.507	1.460	1.426	1.371	1.353	1.423	4.44
32) T 1,1,1-Trichlor...	3.151	2.495	2.279	2.201	2.152	2.062	2.105	2.349	16.23

33) I 1,4-Difluorobenzene	-----ISTD-----								
34) T 2-Butanone			0.754	0.771	0.770	0.667	0.664	0.725	7.58
35) T Carbon Tetrach...	1.069	0.782	0.709	0.732	0.748	0.703	0.725	0.781	16.60
36) T Benzene			1.049	1.027	1.013	0.934	0.934	0.991	5.47
37) T 1,2-Dichloroet...			0.613	0.569	0.563	0.537	0.556	0.568	4.95
38) T Trichloroethene	0.463	0.437	0.438	0.408	0.398	0.374	0.378	0.414	8.00
39) T 1,2-Dichloropr...			0.386	0.373	0.365	0.337	0.344	0.361	5.68

Method Path : Z:\voasrv\HPCHEM1\MSVOA_L\methods\											
Method File : VL032725AIR.M											
40)	T	1,4-Dioxane			0.234	0.197	0.191	0.169	0.167	0.192	14.08
41)	T	Tetrahydrofuran			0.439	0.425	0.432	0.398	0.393	0.418	4.98
42)	T	Bromodichlorom...			0.778	0.779	0.802	0.769	0.785	0.782	1.58
43)		Methyl Methacr...			0.442	0.451	0.408	0.403	0.394	0.420	6.03
44)	T	2,2,4-Trimethy...			1.781	1.689	1.723	1.608	1.576	1.675	5.00
45)	T	t-1,3-Dichloro...			0.474	0.447	0.453	0.439	0.440	0.450	3.15
46)	T	cis-1,3-Dichlo...			0.549	0.560	0.566	0.550	0.535	0.552	2.12
47)	T	1,1,2-Trichlor...			0.419	0.382	0.379	0.364	0.365	0.382	5.88
48)	T	Dibromochlorom...			0.651	0.641	0.663	0.636	0.644	0.647	1.62
49)	T	Bromoform			0.566	0.588	0.597	0.582	0.570	0.581	2.18
50)	T	4-Methyl-2-Pen...			1.286	1.214	1.211	1.027	1.008	1.149	10.79
51)	T	2-Hexanone			0.999	1.018	1.031	0.844	0.827	0.944	10.56
52)	T	Tetrachloroethene	0.572	0.359	0.401	0.361	0.371	0.343	0.345	0.393	20.64
53)	T	Toluene			1.239	1.203	1.202	1.125	1.108	1.175	4.76
54)	T	1,2-Dibromoethane	0.574		0.543	0.538	0.520	0.508	0.510	0.532	4.74
-----ISTD-----											
55)	I	Chlorobenzene-d5									
56)		1,1,1,2-Tetrac...			0.576	0.575	0.576	0.510	0.515	0.550	6.30
57)	T	Chlorobenzene			1.024	0.979	0.994	0.875	0.871	0.949	7.46
58)	T	Ethyl Benzene			1.850	1.822	1.894	1.671	1.645	1.776	6.28
59)	T	m/p-Xylene			1.505	1.472	1.484	1.321	1.309	1.418	6.71
60)	T	o-Xylene			1.521	1.475	1.499	1.328	1.287	1.422	7.50
61)	T	Styrene			0.709	0.722	0.735	0.683	0.668	0.703	3.92
62)		Isopropylbenzene			2.290	2.199	2.261	1.962	1.920	2.126	8.14
63)	T	1,1,2,2-Tetrac...	0.986	0.800	0.907	0.889	0.893	0.796	0.777	0.864	8.78
64)		n-propylbenzene			0.578	0.581	0.576	0.499	0.502	0.547	7.81
65)		tert-Butylbenzene			2.190	2.071	2.144	1.736	1.691	1.966	11.96
66)	T	Benzyl Chloride			0.217	0.213	0.221	0.203	0.189	0.209	6.06
67)		sec-Butylbenzene			3.005	2.994	2.947	2.404	2.316	2.733	12.54
68)	S	1-Bromo-4-Fluo...	0.820	0.827	0.832	0.810	0.828	0.813	0.820	0.821	0.98
69)		p-Isopropyltol...			2.554	2.551	2.560	2.078	2.025	2.354	11.74
70)		n-Butylbenzene			2.536	2.598	2.682	2.137	2.082	2.407	11.51
71)		2-Chlorotoluene			1.717	1.728	1.759	1.538	1.510	1.650	7.07
72)	T	4-Ethyltoluene			1.834	1.859	1.929	1.629	1.601	1.770	8.26
73)	T	1,3,5-Trimethy...			1.616	1.671	1.677	1.387	1.381	1.546	9.71
74)	T	1,2,4-Trimethy...			1.994	1.958	1.966	1.510	1.478	1.781	14.74
75)	T	1,3-Dichlorobe...			1.036	1.022	1.063	0.882	0.882	0.977	8.99
76)	T	1,4-Dichlorobe...			1.030	1.017	1.040	0.888	0.886	0.972	8.05
77)	T	1,2-Dichlorobe...			1.012	1.031	1.014	0.850	0.850	0.951	9.78
78)	T	Hexachloro-1,3...			1.057	1.113	1.086	0.802	0.784	0.968	16.65
79)	T	Naphthalene	1.637		1.979	2.181	2.314	1.806	1.773	1.948	13.31
80)	T	Naphthalene,2-...			0.721	0.891	1.163	0.990	1.013	0.955	17.09
81)	T	1,2,4-Trichlor...			0.821	0.941	1.028	0.859	0.843	0.899	9.51

(#) = Out of Range

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
 Data File : VL042172.D
 Acq On : 27 Mar 2025 08:26
 Operator : SY/MD
 Sample : VSTDICCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Manual Integrations
 APPROVED

Quant Time: Mar 28 01:31:57 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M

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

QLast Update : Fri Mar 28 01:31:23 2025

Response via : Initial Calibration

Reviewed By : Semsettin Yesilyurt 03/31/2025
 Supervised By : Mahesh Dadoda 04/03/2025

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

Internal Standards						
1) Bromochloromethane	2.784	49	187002	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.952	114	545068	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.875	117	519536	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	10.371	95	422410	9.901	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.000%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.496	85	262496	9.507	ppbv	100
3) Chlorodifluoromethane	1.473	51	272522	9.662	ppbv	100
4) Chloromethane	1.531	50	107099	9.491	ppbv	100
5) Vinyl Chloride	1.577	62	102699	8.925	ppbv	100
6) Bromomethane	1.664	94	47950	9.377	ppbv	100
7) Chloroethane	1.703	64	42516	9.387	ppbv	100
8) Dichlorotetrafluoroethane	1.551	85	227041	9.656	ppbv	100
9) Propene	1.483	41	123386	9.709	ppbv	100
10) Heptane	4.972	43	335086	9.744	ppbv	100
11) Trichlorofluoromethane	1.874	101	250349	9.318	ppbv	100
12) 1,1,2-Trichlorotrifluo...	2.137	101	209365	9.481	ppbv	100
13) Ethanol	1.719	45	5338	5.364	ppbv	100
14) Bromoethene	1.777	108	77999	9.220	ppbv	100
15) Acetone	1.832	43	208061	7.955	ppbv	100
16) 1,3-Butadiene	1.606	39	107104	9.105	ppbv	100
17) tert-Butyl alcohol	2.036	59	302616	9.290	ppbv	100
18) 1,1-Dichloroethene	2.030	96	94236	9.128	ppbv	100
19) Isopropyl Alcohol	1.884	45	131359	8.902	ppbv	100
20) Methylene Chloride	2.059	84	81828	8.401	ppbv	100
21) Allyl Chloride	2.091	41	168602	9.141	ppbv	100
22) trans-1,2-Dichloroethene	2.337	96	110371	9.149	ppbv	100
23) Vinyl Acetate	2.460	43	93080	8.563	ppbv	100
24) 1,1-Dichloroethane	2.405	63	209753	9.484	ppbv	100
25) Ethyl Acetate	2.833	43	646501	9.524	ppbv	100
26) Hexane	2.823	57	249331	9.510	ppbv	100
27) Carbon Disulfide	2.146	76	268507	9.550	ppbv	100
28) Methyl tert-Butyl Ether	2.438	73	155398	9.520	ppbv	100
29) Chloroform	2.845	83	361264	9.415	ppbv	100
30) Cyclohexane	3.852	84	217215	9.537	ppbv	100
31) cis-1,2-Dichloroethene	2.716	61	256425	9.634	ppbv	100
32) 1,1,1-Trichloroethane	3.363	97	385628	8.784	ppbv	100
34) 2-Butanone	2.554	43	363735	9.203	ppbv	100
35) Carbon Tetrachloride	3.758	117	382925	9.129	ppbv	100
36) Benzene	3.651	78	508860	9.417	ppbv	100
37) 1,2-Dichloroethane	3.214	62	292937	9.469	ppbv	100
38) Trichloroethene	4.545	130	204027	9.045	ppbv	100
39) 1,2-Dichloropropane	4.312	63	183439	9.321	ppbv	100
40) 1,4-Dioxane	4.577	88	92327	9.042	ppbv #	100
41) Tetrahydrofuran	3.049	42	216851	9.643	ppbv	100
42) Bromodichloromethane	4.483	83	418887	9.822	ppbv	100
43) Methyl Methacrylate	4.872	69	219399	9.618	ppbv	100
44) 2,2,4-Trimethylpentane	4.635	57	876649	9.600	ppbv	100
45) t-1,3-Dichloropropene	6.406	75	239180	9.746	ppbv	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
 Data File : VL042172.D
 Acq On : 27 Mar 2025 08:26
 Operator : SY/MD
 Sample : VSTDICCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Manual Integrations
 APPROVED

Quant Time: Mar 28 01:31:57 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M

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

QLast Update : Fri Mar 28 01:31:23 2025

Response via : Initial Calibration

Reviewed By : Semsettin Yesilyurt 03/31/2025
 Supervised By : Mahesh Dadoda 04/03/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.593	75	300021	9.973	ppbv	100
47) 1,1,2-Trichloroethane	6.574	97	198176	9.526	ppbv	100
48) Dibromochloromethane	7.380	129	346499	9.828	ppbv	100
49) Bromoform	9.477	173	317189	10.021	ppbv	100
50) 4-Methyl-2-Pentanone	5.745	43	559800	8.934	ppbv	100
51) 2-Hexanone	7.432	43	460013	8.848	ppbv #	100
52) Tetrachloroethene	8.218	164	186912	8.722	ppbv	100
53) Toluene	6.927	91	613378	9.576	ppbv	100
54) 1,2-Dibromoethane	7.649	107	276797	9.536	ppbv	100
56) 1,1,1,2-Tetrachloroethane	8.917	131	265037	9.268	ppbv	100
57) Chlorobenzene	8.917	112	454511	9.223	ppbv	100
58) Ethyl Benzene	9.351	91	868003	9.406	ppbv	100
59) m/p-Xylene	9.549	91	1372806m	18.607	ppbv	
60) o-Xylene	9.960	91	689933	9.340	ppbv	100
61) Styrene	9.866	104	354697	9.706	ppbv	100
62) Isopropylbenzene	10.536	105	1019255	9.227	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.960	83	413392	9.210	ppbv	100
64) n-propylbenzene	10.986	120	259405	9.122	ppbv	100
65) tert-Butylbenzene	11.529	119	901951	8.828	ppbv	100
66) Benzyl Chloride	11.610	91	105411	9.724	ppbv	100
67) sec-Butylbenzene	11.766	105	1249106	8.796	ppbv	100
69) p-Isopropyltoluene	11.924	119	1079675	8.830	ppbv	100
70) n-Butylbenzene	12.277	91	1110351	8.879	ppbv	100
71) 2-Chlorotoluene	10.898	91	799102	9.320	ppbv	100
72) 4-Ethyltoluene	11.122	105	846232	9.200	ppbv	100
73) 1,3,5-Trimethylbenzene	11.199	105	720566	8.970	ppbv	100
74) 1,2,4-Trimethylbenzene	11.536	105	784745	8.480	ppbv	100
75) 1,3-Dichlorobenzene	11.604	146	458226	9.028	ppbv	100
76) 1,4-Dichlorobenzene	11.669	146	461371	9.134	ppbv	100
77) 1,2-Dichlorobenzene	11.944	146	441473	8.933	ppbv	100
78) Hexachloro-1,3-Butadiene	13.879	225	416735	8.284	ppbv	100
79) Naphthalene	13.510	128	938470	9.271	ppbv	100
80) Naphthalene,2-methyl-	14.455	142	514394	10.436	ppbv	100
81) 1,2,4-Trichlorobenzene	13.439	180	446420	9.561	ppbv	100

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

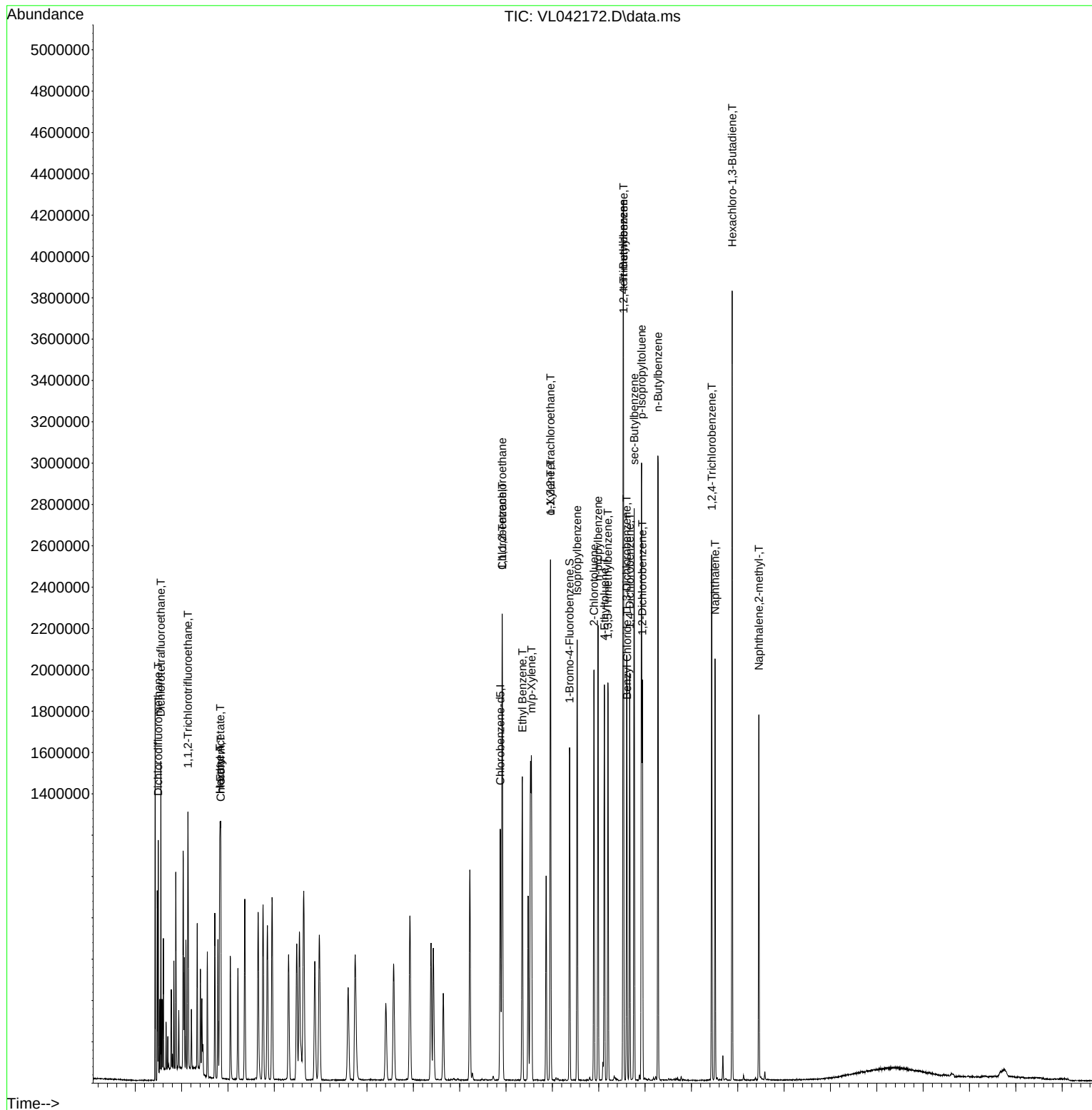
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
Data File : VL042172.D
Acq On : 27 Mar 2025 08:26
Operator : SY/MD
Sample : VSTDICCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025

Quant Time: Mar 28 01:31:57 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Fri Mar 28 01:31:23 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
 Data File : VL042173.D
 Acq On : 27 Mar 2025 08:59
 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 03/31/2025
 Supervised By : Mahesh Dadoda 04/03/2025

Quant Time: Mar 28 01:32:52 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M

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

QLast Update : Fri Mar 28 01:31:23 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.784	49	188395	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.952	114	546394	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.875	117	504538	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.370 95 417532 10.077 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 100.800%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.496	85	55859	2.008	ppbv	99
3) Chlorodifluoromethane	1.473	51	57045	2.007	ppbv	99
4) Chloromethane	1.531	50	23293	2.049	ppbv	94
5) Vinyl Chloride	1.576	62	21989	1.897	ppbv	99
6) Bromomethane	1.664	94	10027	1.946	ppbv	98
7) Chloroethane	1.703	64	8413	1.844	ppbv	92
8) Dichlorotetrafluoroethane	1.551	85	48008	2.027	ppbv	98
9) Propene	1.483	41	26295	2.054	ppbv	94
10) Heptane	4.972	43	71466	2.063	ppbv	99
11) Trichlorofluoromethane	1.874	101	55754	2.060	ppbv	99
12) 1,1,2-Trichlorotrifluoro...	2.136	101	44761	2.012	ppbv	98
13) Ethanol	1.719	45	2748m	2.741	ppbv	
14) Bromoethene	1.780	108	17323	2.033	ppbv #	89
15) Acetone	1.832	43	55365	2.101	ppbv	95
16) 1,3-Butadiene	1.606	39	22894	1.932	ppbv	95
17) tert-Butyl alcohol	2.039	59	66174	2.016	ppbv	100
18) 1,1-Dichloroethene	2.030	96	21103	2.029	ppbv	95
19) Isopropyl Alcohol	1.884	45	27804	1.870	ppbv #	35
20) Methylene Chloride	2.059	84	20518	2.091	ppbv	96
21) Allyl Chloride	2.094	41	38425	2.068	ppbv	99
22) trans-1,2-Dichloroethene	2.337	96	23384	1.924	ppbv	92
23) Vinyl Acetate	2.460	43	20736	1.894	ppbv #	97
24) 1,1-Dichloroethane	2.405	63	44740	2.008	ppbv	99
25) Ethyl Acetate	2.832	43	139516	2.040	ppbv	99
26) Hexane	2.823	57	52095	1.972	ppbv	92
27) Carbon Disulfide	2.146	76	57969	2.047	ppbv #	76
28) Methyl tert-Butyl Ether	2.437	73	33703	2.049	ppbv	99
29) Chloroform	2.845	83	78043	2.019	ppbv	95
30) Cyclohexane	3.852	84	45641	1.989	ppbv	99
31) cis-1,2-Dichloroethene	2.719	61	53713	2.003	ppbv	96
32) 1,1,1-Trichloroethane	3.363	97	81070	1.833	ppbv	99
34) 2-Butanone	2.554	43	84157	2.124	ppbv	99
35) Carbon Tetrachloride	3.758	117	81735	1.944	ppbv	96
36) Benzene	3.651	78	110727	2.044	ppbv	97
37) 1,2-Dichloroethane	3.214	62	61476	1.982	ppbv	97
38) Trichloroethene	4.541	130	43501	1.924	ppbv	97
39) 1,2-Dichloropropane	4.308	63	39912	2.023	ppbv	93
40) 1,4-Dioxane	4.587	88	20884m	2.040	ppbv	
41) Tetrahydrofuran	3.056	42	47262	2.097	ppbv	99
42) Bromodichloromethane	4.483	83	87640	2.050	ppbv	99
43) Methyl Methacrylate	4.878	69	44624	1.952	ppbv	97
44) 2,2,4-Trimethylpentane	4.632	57	188282	2.057	ppbv	100
45) t-1,3-Dichloropropene	6.406	75	49461	2.011	ppbv	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
 Data File : VL042173.D
 Acq On : 27 Mar 2025 08:59
 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 03/31/2025
 Supervised By : Mahesh Dadoda 04/03/2025

Quant Time: Mar 28 01:32:52 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M

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

QLast Update : Fri Mar 28 01:31:23 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
46) cis-1,3-Dichloropropene	5.593	75	61829	2.050	ppbv	#	91
47) 1,1,2-Trichloroethane	6.577	97	41387	1.985	ppbv		95
48) Dibromochloromethane	7.383	129	72441	2.050	ppbv		100
49) Bromoform	9.477	173	65221	2.056	ppbv		98
50) 4-Methyl-2-Pentanone	5.752	43	132328	2.107	ppbv		99
51) 2-Hexanone	7.435	43	112681	2.162	ppbv	#	99
52) Tetrachloroethene	8.221	164	40558	1.888	ppbv		98
53) Toluene	6.923	91	131314	2.045	ppbv		99
54) 1,2-Dibromoethane	7.648	107	56799	1.952	ppbv		90
56) 1,1,1,2-Tetrachloroethane	8.920	131	58141	2.093	ppbv		97
57) Chlorobenzene	8.914	112	100308	2.096	ppbv	#	94
58) Ethyl Benzene	9.351	91	191114	2.132	ppbv		96
59) m/p-Xylene	9.548	91	299531m	4.181	ppbv		
60) o-Xylene	9.959	91	151292	2.109	ppbv		98
61) Styrene	9.865	104	74134	2.089	ppbv		98
62) Isopropylbenzene	10.535	105	228191	2.127	ppbv		99
63) 1,1,2,2-Tetrachloroethane	9.956	83	90114	2.067	ppbv		99
64) n-propylbenzene	10.985	120	58105	2.104	ppbv		92
65) tert-Butylbenzene	11.529	119	216336	2.180	ppbv		99
66) Benzyl Chloride	11.610	91	22272	2.116	ppbv		95
67) sec-Butylbenzene	11.762	105	297381	2.156	ppbv		99
69) p-Isopropyltoluene	11.921	119	258357	2.176	ppbv		100
70) n-Butylbenzene	12.277	91	270616	2.228	ppbv		99
71) 2-Chlorotoluene	10.898	91	177487	2.132	ppbv		100
72) 4-Ethyltoluene	11.121	105	194660	2.179	ppbv		99
73) 1,3,5-Trimethylbenzene	11.199	105	169221	2.169	ppbv		96
74) 1,2,4-Trimethylbenzene	11.532	105	198351	2.207	ppbv		96
75) 1,3-Dichlorobenzene	11.604	146	107217	2.175	ppbv		97
76) 1,4-Dichlorobenzene	11.668	146	104925	2.139	ppbv		99
77) 1,2-Dichlorobenzene	11.943	146	102310	2.132	ppbv		99
78) Hexachloro-1,3-Butadiene	13.879	225	109539	2.242	ppbv		99
79) Naphthalene	13.510	128	233451	2.375	ppbv		97
80) Naphthalene,2-methyl-	14.455	142	117313	2.451	ppbv		99
81) 1,2,4-Trichlorobenzene	13.435	180	103765	2.288	ppbv		97

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
 Data File : VL042174.D
 Acq On : 27 Mar 2025 09:30
 Operator : SY/MD
 Sample : VSTDICC001
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC001

Manual Integrations
 APPROVED

Quant Time: Mar 28 01:33:49 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M

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

QLast Update : Fri Mar 28 01:31:23 2025

Response via : Initial Calibration

Reviewed By : Semsettin Yesilyurt 03/31/2025
 Supervised By : Mahesh Dadoda 04/03/2025

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

Internal Standards						
1) Bromochloromethane	2.784	49	186244	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.952	114	537244	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.879	117	499830	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.371	95	404753	9.861	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.600%
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.496	85	28203	1.026	ppbv	99
3) Chlorodifluoromethane	1.473	51	28693	1.021	ppbv	94
4) Chloromethane	1.531	50	11111	0.989	ppbv	99
5) Vinyl Chloride	1.577	62	10723	0.936	ppbv	98
6) Bromomethane	1.667	94	4984	0.979	ppbv	97
7) Chloroethane	1.703	64	4622	1.025	ppbv	100
8) Dichlorotetrafluoroethane	1.554	85	23886	1.020	ppbv	98
9) Propene	1.483	41	13699m	1.082	ppbv	
10) Heptane	4.975	43	36132	1.055	ppbv	100
11) Trichlorofluoromethane	1.875	101	27136	1.014	ppbv	96
12) 1,1,2-Trichlorotrifluo...	2.137	101	22629	1.029	ppbv	99
13) Ethanol	1.719	45	1610m	1.624	ppbv	
14) Bromoethene	1.781	108	8330	0.989	ppbv #	82
15) Acetone	1.836	43	29294	1.125	ppbv	95
16) 1,3-Butadiene	1.606	39	13133	1.121	ppbv	97
17) tert-Butyl alcohol	2.040	59	33500	1.033	ppbv	97
18) 1,1-Dichloroethene	2.033	96	10532	1.024	ppbv	89
19) Isopropyl Alcohol	1.884	45	14903	1.014	ppbv #	38
20) Methylene Chloride	2.059	84	10481	1.080	ppbv	93
21) Allyl Chloride	2.095	41	19039	1.036	ppbv	99
22) trans-1,2-Dichloroethene	2.341	96	13051m	1.086	ppbv	
23) Vinyl Acetate	2.464	43	12883m	1.190	ppbv	
24) 1,1-Dichloroethane	2.409	63	22505	1.022	ppbv	99
25) Ethyl Acetate	2.836	43	67402	0.997	ppbv #	96
26) Hexane	2.823	57	27223	1.043	ppbv	98
27) Carbon Disulfide	2.146	76	28167	1.006	ppbv #	47
28) Methyl tert-Butyl Ether	2.441	73	16501	1.015	ppbv	95
29) Chloroform	2.845	83	38516	1.008	ppbv	96
30) Cyclohexane	3.852	84	23052	1.016	ppbv	97
31) cis-1,2-Dichloroethene	2.716	61	27187	1.026	ppbv	89
32) 1,1,1-Trichloroethane	3.363	97	40993	0.938	ppbv	99
34) 2-Butanone	2.557	43	41423	1.063	ppbv	98
35) Carbon Tetrachloride	3.758	117	39345	0.952	ppbv	93
36) Benzene	3.651	78	55156	1.036	ppbv	94
37) 1,2-Dichloroethane	3.218	62	30543	1.002	ppbv	98
38) Trichloroethene	4.545	130	21906	0.985	ppbv	93
39) 1,2-Dichloropropane	4.312	63	20020	1.032	ppbv	99
40) 1,4-Dioxane	4.593	88	10592m	1.052	ppbv	
41) Tetrahydrofuran	3.056	42	22818	1.029	ppbv	97
42) Bromodichloromethane	4.483	83	41864	0.996	ppbv	90
43) Methyl Methacrylate	4.875	69	24233m	1.078	ppbv	
44) 2,2,4-Trimethylpentane	4.632	57	90727	1.008	ppbv	96
45) t-1,3-Dichloropropene	6.403	75	23993m	0.992	ppbv	

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
 Data File : VL042174.D
 Acq On : 27 Mar 2025 09:30
 Operator : SY/MD
 Sample : VSTDICC001
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC001

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 03/31/2025
 Supervised By :Mahesh Dadoda 04/03/2025

Quant Time: Mar 28 01:33:49 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M

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

QLast Update : Fri Mar 28 01:31:23 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.593	75	30063	1.014	ppbv	93
47) 1,1,2-Trichloroethane	6.577	97	20546	1.002	ppbv	96
48) Dibromochloromethane	7.383	129	34425	0.991	ppbv	100
49) Bromoform	9.481	173	31610	1.013	ppbv	98
50) 4-Methyl-2-Pentanone	5.752	43	65226m	1.056	ppbv	
51) 2-Hexanone	7.438	43	54680	1.067	ppbv #	100
52) Tetrachloroethene	8.222	164	19415	0.919	ppbv	95
53) Toluene	6.927	91	64612	1.023	ppbv	99
54) 1,2-Dibromoethane	7.652	107	28879	1.009	ppbv	95
56) 1,1,1,2-Tetrachloroethane	8.924	131	28764	1.045	ppbv #	87
57) Chlorobenzene	8.917	112	48930	1.032	ppbv	93
58) Ethyl Benzene	9.348	91	91086	1.026	ppbv	97
59) m/p-Xylene	9.529	91	147162m	2.073	ppbv	
60) o-Xylene	9.960	91	73702	1.037	ppbv	96
61) Styrene	9.866	104	36110	1.027	ppbv	97
62) Isopropylbenzene	10.536	105	109897	1.034	ppbv	98
63) 1,1,2,2-Tetrachloroethane	9.960	83	44431	1.029	ppbv	99
64) n-propylbenzene	10.986	120	29054	1.062	ppbv	98
65) tert-Butylbenzene	11.526	119	103520	1.053	ppbv	96
66) Benzyl Chloride	11.614	91	10660	1.022	ppbv #	93
67) sec-Butylbenzene	11.762	105	149660	1.095	ppbv	97
69) p-Isopropyltoluene	11.921	119	127509	1.084	ppbv	99
70) n-Butylbenzene	12.280	91	129860	1.079	ppbv	99
71) 2-Chlorotoluene	10.898	91	86356	1.047	ppbv	100
72) 4-Ethyltoluene	11.122	105	92912	1.050	ppbv	99
73) 1,3,5-Trimethylbenzene	11.199	105	83497	1.080	ppbv	92
74) 1,2,4-Trimethylbenzene	11.533	105	97858	1.099	ppbv	94
75) 1,3-Dichlorobenzene	11.604	146	51096	1.046	ppbv	99
76) 1,4-Dichlorobenzene	11.669	146	50841	1.046	ppbv	99
77) 1,2-Dichlorobenzene	11.944	146	51523	1.084	ppbv	99
78) Hexachloro-1,3-Butadiene	13.879	225	55611	1.149	ppbv	97
79) Naphthalene	13.510	128	109031	1.120	ppbv	99
80) Naphthalene,2-methyl-	14.455	142	44518	0.939	ppbv	99
81) 1,2,4-Trichlorobenzene	13.436	180	47040	1.047	ppbv	98

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

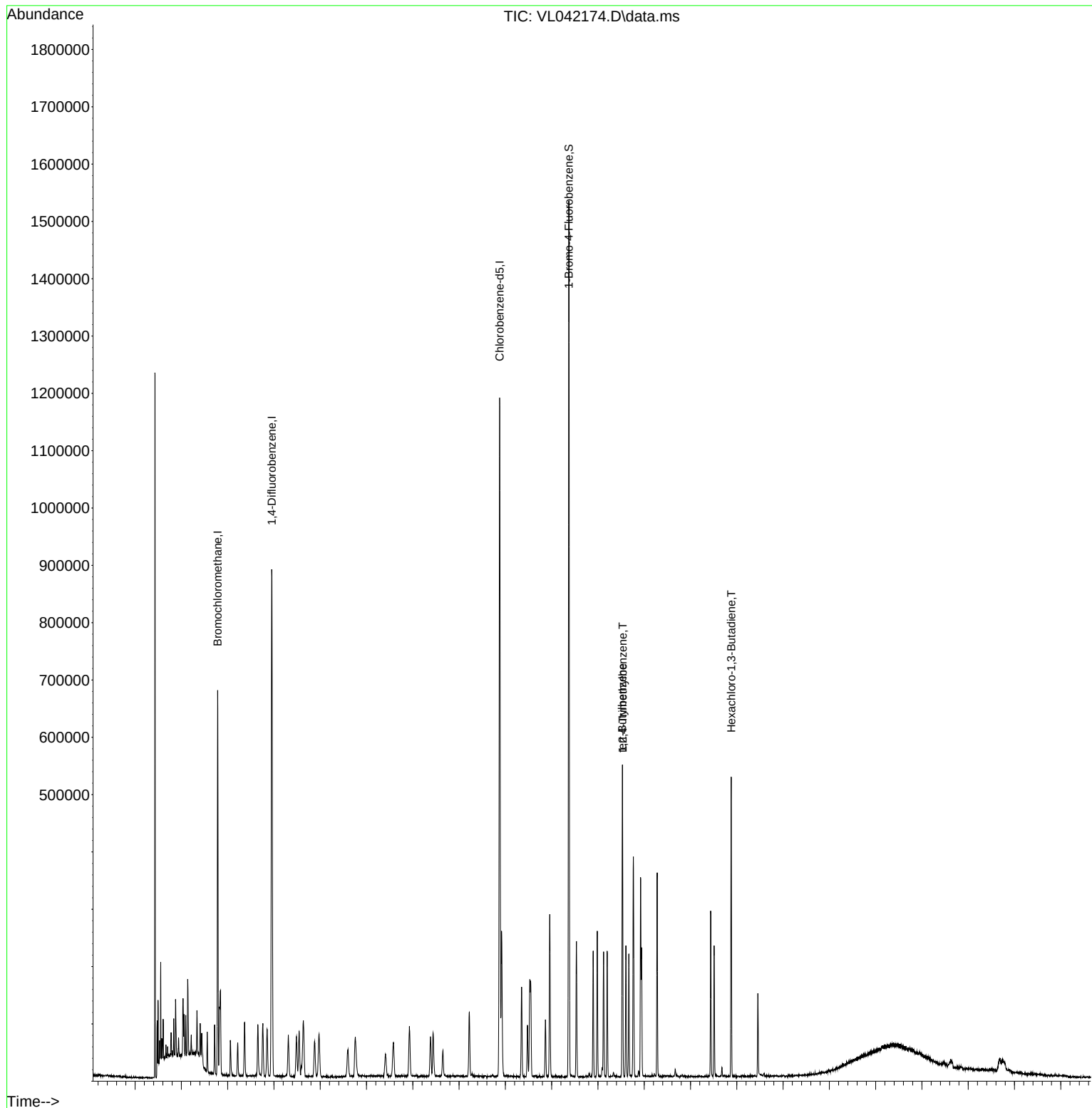
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
Data File : VL042174.D
Acq On : 27 Mar 2025 09:30
Operator : SY/MD
Sample : VSTDICC001
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

Reviewed By : Semsettin Yesilyurt 03/31/2025
Supervised By : Mahesh Dadoda 04/03/2025

Quant Time: Mar 28 01:33:49 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Fri Mar 28 01:31:23 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
 Data File : VL042175.D
 Acq On : 27 Mar 2025 10:01
 Operator : SY/MD
 Sample : VSTDICC0.5
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC0.5

Manual Integrations
 APPROVED

Quant Time: Mar 28 01:34:42 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M

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

QLast Update : Fri Mar 28 01:31:23 2025

Response via : Initial Calibration

Reviewed By : Semsettin Yesilyurt 03/31/2025
 Supervised By : Mahesh Dadoda 04/03/2025

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

Internal Standards						
1) Bromochloromethane	2.784	49	180502	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.952	114	523832	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.875	117	485078	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.370 95 403513 10.130 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 101.300%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.496	85	14455	0.542	ppbv	95
3) Chlorodifluoromethane	1.473	51	14637	0.538	ppbv #	89
4) Chloromethane	1.531	50	5956	0.547	ppbv	94
5) Vinyl Chloride	1.577	62	5732	0.516	ppbv	92
6) Bromomethane	1.664	94	2949	0.597	ppbv	95
7) Chloroethane	1.703	64	2582	0.591	ppbv #	87
8) Dichlorotetrafluoroethane	1.551	85	11783	0.519	ppbv	98
9) Propene	1.483	41	6622m	0.540	ppbv	
10) Heptane	4.972	43	16673	0.502	ppbv	89
11) Trichlorofluoromethane	1.874	101	14099	0.544	ppbv	92
12) 1,1,2-Trichlorotrifluo...	2.136	101	11252	0.528	ppbv	99
13) Ethanol	1.722	45	997	1.038	ppbv #	36
14) Bromoethene	1.780	108	4770	0.584	ppbv #	86
15) Acetone	1.835	43	15331	0.607	ppbv #	85
16) 1,3-Butadiene	1.606	39	8594	0.757	ppbv	82
17) tert-Butyl alcohol	2.039	59	17467	0.556	ppbv	97
18) 1,1-Dichloroethene	2.030	96	5634	0.565	ppbv #	92
19) Isopropyl Alcohol	1.884	45	9171	0.644	ppbv #	39
20) Methylene Chloride	2.059	84	5634	0.599	ppbv #	93
21) Allyl Chloride	2.091	41	9632	0.541	ppbv	89
22) trans-1,2-Dichloroethene	2.334	96	6353	0.546	ppbv	83
23) Vinyl Acetate	2.457	43	6809	0.649	ppbv #	91
24) 1,1-Dichloroethane	2.405	63	11258	0.527	ppbv	97
25) Ethyl Acetate	2.836	43	36258	0.553	ppbv	98
26) Hexane	2.823	57	13605	0.538	ppbv	92
27) Carbon Disulfide	2.146	76	14510	0.535	ppbv #	1
28) Methyl tert-Butyl Ether	2.437	73	8310	0.527	ppbv #	89
29) Chloroform	2.845	83	20149	0.544	ppbv	98
30) Cyclohexane	3.852	84	12063m	0.549	ppbv	
31) cis-1,2-Dichloroethene	2.719	61	13601	0.529	ppbv	92
32) 1,1,1-Trichloroethane	3.360	97	20567	0.485	ppbv	100
34) 2-Butanone	2.557	43	19739	0.520	ppbv	96
35) Carbon Tetrachloride	3.755	117	18558	0.460	ppbv	93
36) Benzene	3.651	78	27488	0.529	ppbv #	87
37) 1,2-Dichloroethane	3.214	62	16062	0.540	ppbv	100
38) Trichloroethene	4.538	130	11460m	0.529	ppbv	
39) 1,2-Dichloropropane	4.308	63	10123	0.535	ppbv	92
40) 1,4-Dioxane	4.593	88	6121m	0.624	ppbv	
41) Tetrahydrofuran	3.059	42	11509m	0.533	ppbv	
42) Bromodichloromethane	4.483	83	20374	0.497	ppbv #	98
43) Methyl Methacrylate	4.875	69	11583m	0.528	ppbv	
44) 2,2,4-Trimethylpentane	4.632	57	46646	0.532	ppbv	95
45) t-1,3-Dichloropropene	6.406	75	12404	0.526	ppbv #	79

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
 Data File : VL042175.D
 Acq On : 27 Mar 2025 10:01
 Operator : SY/MD
 Sample : VSTDICC0.5
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC0.5

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 03/31/2025
 Supervised By :Mahesh Dadoda 04/03/2025

Quant Time: Mar 28 01:34:42 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M

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

QLast Update : Fri Mar 28 01:31:23 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.593	75	14374m	0.497	ppbv	
47) 1,1,2-Trichloroethane	6.574	97	10972m	0.549	ppbv	
48) Dibromochloromethane	7.380	129	17042	0.503	ppbv	99
49) Bromoform	9.480	173	14828	0.487	ppbv	98
50) 4-Methyl-2-Pentanone	5.758	43	33674	0.559	ppbv	97
51) 2-Hexanone	7.438	43	26154	0.523	ppbv #	100
52) Tetrachloroethene	8.218	164	10502	0.510	ppbv	94
53) Toluene	6.923	91	32444	0.527	ppbv	98
54) 1,2-Dibromoethane	7.648	107	14220	0.510	ppbv	99
56) 1,1,1,2-Tetrachloroethane	8.920	131	13959	0.523	ppbv #	1
57) Chlorobenzene	8.914	112	24826	0.540	ppbv #	91
58) Ethyl Benzene	9.348	91	44862	0.521	ppbv	96
59) m/p-Xylene	9.542	91	73028m	1.060	ppbv	
60) o-Xylene	9.959	91	36879	0.535	ppbv	98
61) Styrene	9.866	104	17198	0.504	ppbv	96
62) Isopropylbenzene	10.536	105	55531	0.538	ppbv	99
63) 1,1,2,2-Tetrachloroethane	9.959	83	21989	0.525	ppbv	96
64) n-propylbenzene	10.985	120	14030	0.528	ppbv	95
65) tert-Butylbenzene	11.526	119	53115	0.557	ppbv	100
66) Benzyl Chloride	11.613	91	5263	0.520	ppbv	97
67) sec-Butylbenzene	11.762	105	72879	0.550	ppbv	98
69) p-Isopropyltoluene	11.921	119	61933	0.542	ppbv	100
70) n-Butylbenzene	12.277	91	61507	0.527	ppbv	99
71) 2-Chlorotoluene	10.895	91	41637	0.520	ppbv	95
72) 4-Ethyltoluene	11.121	105	44473	0.518	ppbv #	94
73) 1,3,5-Trimethylbenzene	11.199	105	39190	0.523	ppbv	97
74) 1,2,4-Trimethylbenzene	11.532	105	48370	0.560	ppbv	97
75) 1,3-Dichlorobenzene	11.600	146	25122	0.530	ppbv	100
76) 1,4-Dichlorobenzene	11.668	146	24991	0.530	ppbv	97
77) 1,2-Dichlorobenzene	11.943	146	24548	0.532	ppbv	96
78) Hexachloro-1,3-Butadiene	13.879	225	25636	0.546	ppbv	99
79) Naphthalene	13.510	128	47990	0.508	ppbv	95
80) Naphthalene,2-methyl-	14.458	142	17486	0.380	ppbv	98
81) 1,2,4-Trichlorobenzene	13.436	180	19924	0.457	ppbv	97

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

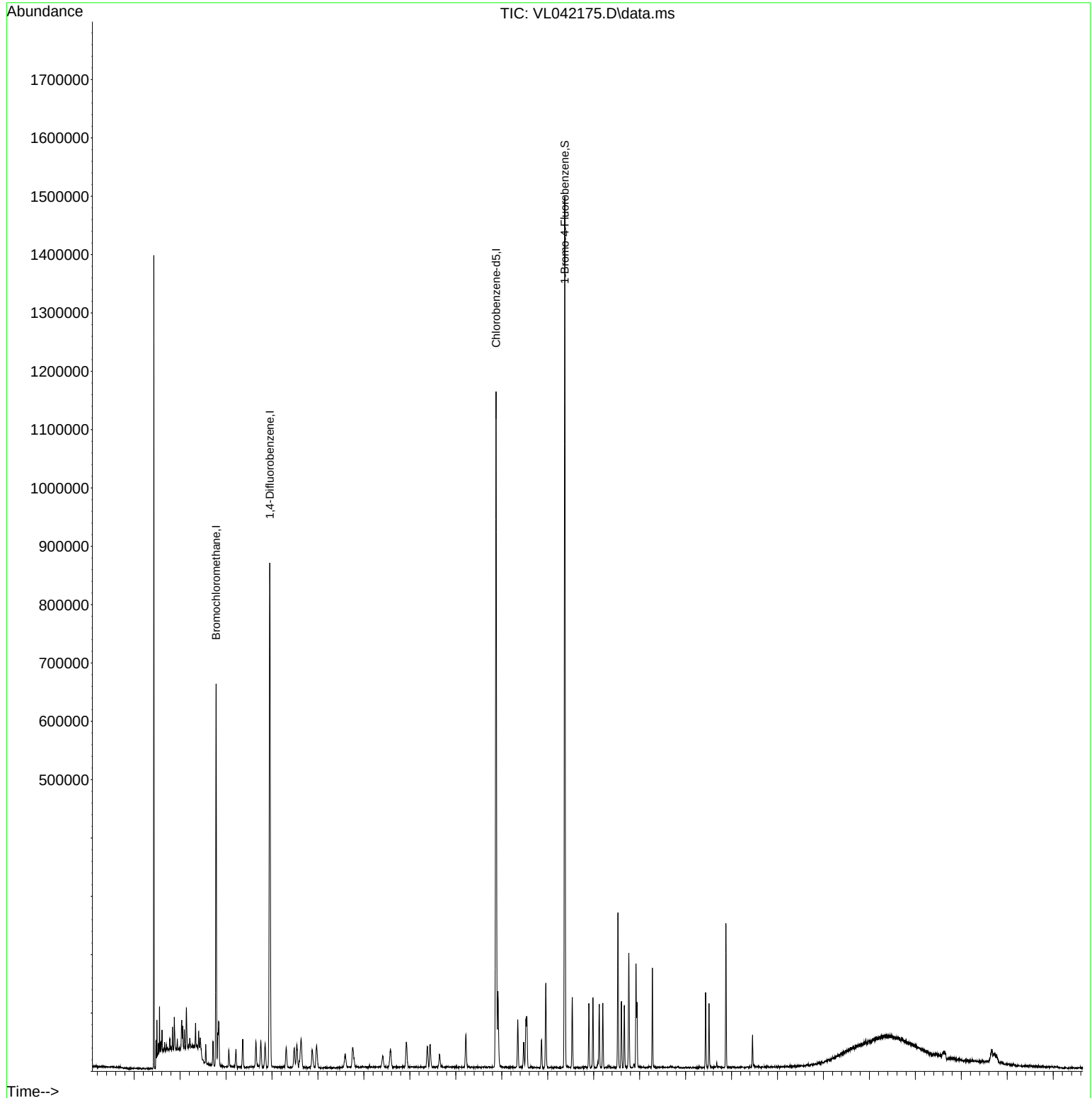
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
Data File : VL042175.D
Acq On : 27 Mar 2025 10:01
Operator : SY/MD
Sample : VSTDICC0.5
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025

Quant Time: Mar 28 01:34:42 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Fri Mar 28 01:31:23 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
 Data File : VL042176.D
 Acq On : 27 Mar 2025 10:32
 Operator : SY/MD
 Sample : VSTDICC0.1
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC0.1

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 03/31/2025
 Supervised By :Mahesh Dadoda 04/03/2025

Quant Time: Mar 28 01:35:34 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2
 QLast Update : Fri Mar 28 01:31:23 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.787	49	180740	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.955	114	528028	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.878	117	481506	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.374	95	398069	10.067	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.700%
Target Compounds						
5) Vinyl Chloride	1.580	62	1274	0.115	ppbv #	42
32) 1,1,1-Trichloroethane	3.366	97	4509m	0.106	ppbv	
35) Carbon Tetrachloride	3.768	117	4131m	0.102	ppbv	
38) Trichloroethene	4.551	130	2306m	0.106	ppbv	
52) Tetrachloroethene	8.225	164	1895m	0.091	ppbv	
54) 1,2-Dibromoethane	7.652	107	3033m	0.108	ppbv	
63) 1,1,2,2-Tetrachloroethane	9.966	83	3852m	0.093	ppbv	
79) Naphthalene	13.513	128	7882	0.084	ppbv #	92

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

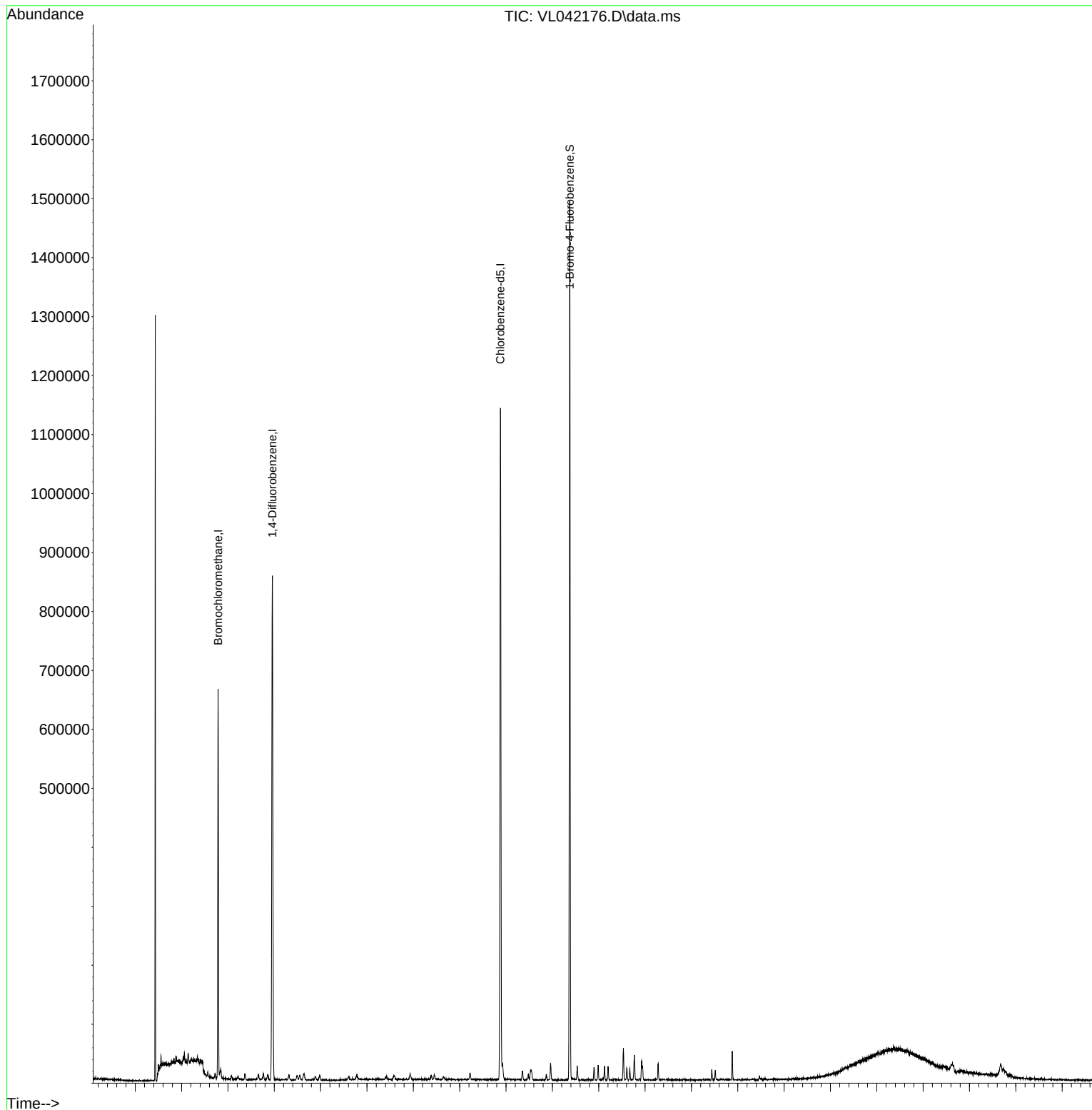
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
Data File : VL042176.D
Acq On : 27 Mar 2025 10:32
Operator : SY/MD
Sample : VSTDICC0.1
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025

Quant Time: Mar 28 01:35:34 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Fri Mar 28 01:31:23 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
 Data File : VL042177.D
 Acq On : 27 Mar 2025 11:03
 Operator : SY/MD
 Sample : VSTDICC0.03
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC0.03

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 03/31/2025
 Supervised By : Mahesh Dadoda 04/03/2025

Quant Time: Mar 28 01:36:24 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2
 QLast Update : Fri Mar 28 01:31:23 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.787	49	178058	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.955	114	512915	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.878	117	475617	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.374	95	389935	9.983	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.800%
Target Compounds						
					Qvalue	
5) Vinyl Chloride	1.580	62	471m	0.043	ppbv	
32) 1,1,1-Trichloroethane	3.366	97	1683m	0.040	ppbv	
35) Carbon Tetrachloride	3.758	117	1645m	0.042	ppbv	
38) Trichloroethene	4.541	130	712m	0.034	ppbv	
52) Tetrachloroethene	8.208	164	880m	0.044	ppbv	
63) 1,1,2,2-Tetrachloroethane	9.963	83	1407m	0.034	ppbv	

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

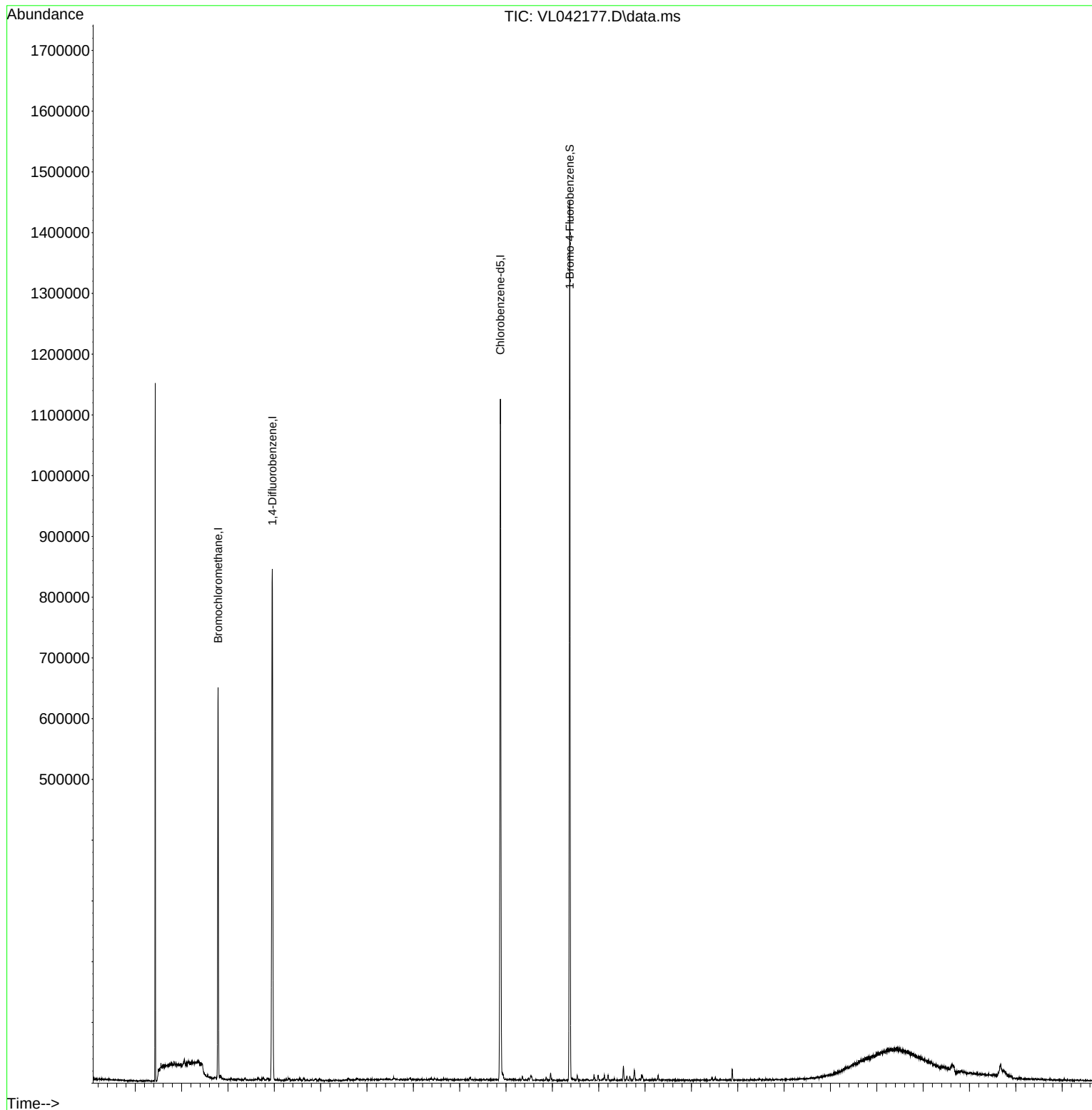
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
Data File : VL042177.D
Acq On : 27 Mar 2025 11:03
Operator : SY/MD
Sample : VSTDICC0.03
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Manual Integrations
APPROVED

Reviewed By : Semsettin Yesilyurt 03/31/2025
Supervised By : Mahesh Dadoda 04/03/2025

Quant Time: Mar 28 01:36:24 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Fri Mar 28 01:31:23 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
 Data File : VL042178.D
 Acq On : 27 Mar 2025 11:36
 Operator : SY/MD
 Sample : VSTDICC015
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC015

Quant Time: Mar 28 01:37:01 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2
 QLast Update : Fri Mar 28 01:31:23 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 03/31/2025
 Supervised By : Mahesh Dadoda 04/03/2025

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

Internal Standards						
1) Bromochloromethane	2.784	49	173372	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.952	114	499360	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.878	117	473077	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.374	95	387777	9.981	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.800%

Target Compounds	Qvalue					
2) Dichlorodifluoromethane	1.495	85	358962	14.023	ppbv	99
3) Chlorodifluoromethane	1.473	51	366164	14.002	ppbv	98
4) Chloromethane	1.531	50	148133	14.160	ppbv	98
5) Vinyl Chloride	1.576	62	141938	13.304	ppbv	97
6) Bromomethane	1.667	94	65113	13.734	ppbv	99
7) Chloroethane	1.703	64	58820	14.007	ppbv	99
8) Dichlorotetrafluoroethane	1.550	85	314834	14.442	ppbv	98
9) Propene	1.482	41	163799	13.902	ppbv	95
10) Heptane	4.972	43	446949	14.019	ppbv	99
11) Trichlorofluoromethane	1.874	101	349967	14.050	ppbv	98
12) 1,1,2-Trichlorotrifluo...	2.136	101	295217	14.419	ppbv	99
13) Ethanol	1.719	45	7382	8.001	ppbv	92
14) Bromoethene	1.780	108	106436	13.571	ppbv	98
15) Acetone	1.832	43	296254	12.218	ppbv	98
16) 1,3-Butadiene	1.605	39	150122	13.766	ppbv	100
17) tert-Butyl alcohol	2.039	59	416362	13.787	ppbv	99
18) 1,1-Dichloroethene	2.029	96	131720	13.762	ppbv	99
19) Isopropyl Alcohol	1.884	45	179117	13.093	ppbv	100
20) Methylene Chloride	2.059	84	113183	12.533	ppbv	95
21) Allyl Chloride	2.094	41	239440	14.002	ppbv	99
22) trans-1,2-Dichloroethene	2.337	96	149455	13.362	ppbv	98
23) Vinyl Acetate	2.460	43	138419	13.736	ppbv #	96
24) 1,1-Dichloroethane	2.405	63	298760	14.570	ppbv	99
25) Ethyl Acetate	2.832	43	871882	13.855	ppbv	100
26) Hexane	2.822	57	344636	14.178	ppbv	98
27) Carbon Disulfide	2.146	76	370022	14.196	ppbv	97
28) Methyl tert-Butyl Ether	2.437	73	216463	14.303	ppbv	95
29) Chloroform	2.845	83	508614	14.297	ppbv	100
30) Cyclohexane	3.852	84	296458	14.040	ppbv	99
31) cis-1,2-Dichloroethene	2.719	61	351945	14.262	ppbv	97
32) 1,1,1-Trichloroethane	3.363	97	547329	13.448	ppbv	99
34) 2-Butanone	2.554	43	497020	13.726	ppbv	99
35) Carbon Tetrachloride	3.758	117	543385	14.140	ppbv	100
36) Benzene	3.651	78	699549	14.131	ppbv	98
37) 1,2-Dichloroethane	3.214	62	416544	14.697	ppbv	99
38) Trichloroethene	4.541	130	283430	13.715	ppbv	98
39) 1,2-Dichloropropane	4.308	63	257891	14.304	ppbv	99
40) 1,4-Dioxane	4.577	88	124925	13.354	ppbv #	91
41) Tetrahydrofuran	3.049	42	294634	14.301	ppbv	100
42) Bromodichloromethane	4.483	83	587772	15.043	ppbv	99
43) Methyl Methacrylate	4.874	69	295300	14.130	ppbv	99
44) 2,2,4-Trimethylpentane	4.635	57	1180275	14.108	ppbv	99
45) t-1,3-Dichloropropene	6.405	75	329360	14.649	ppbv	96

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
 Data File : VL042178.D
 Acq On : 27 Mar 2025 11:36
 Operator : SY/MD
 Sample : VSTDIC015
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Manual Integrations
 APPROVED

Quant Time: Mar 28 01:37:01 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M

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

QLast Update : Fri Mar 28 01:31:23 2025

Response via : Initial Calibration

Reviewed By : Semsettin Yesilyurt 03/31/2025
 Supervised By : Mahesh Dadoda 04/03/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.593	75	400813	14.542	ppbv	98
47) 1,1,2-Trichloroethane	6.577	97	273137	14.331	ppbv	98
48) Dibromochloromethane	7.383	129	482431	14.936	ppbv	100
49) Bromoform	9.480	173	427143	14.730	ppbv	99
50) 4-Methyl-2-Pentanone	5.745	43	755146	13.155	ppbv	99
51) 2-Hexanone	7.431	43	619419	13.005	ppbv #	99
52) Tetrachloroethene	8.221	164	258356	13.159	ppbv	95
53) Toluene	6.926	91	829648	14.137	ppbv	100
54) 1,2-Dibromoethane	7.645	107	381823	14.359	ppbv	97
56) 1,1,1,2-Tetrachloroethane	8.920	131	365410	14.032	ppbv	99
57) Chlorobenzene	8.917	112	618201	13.777	ppbv	100
58) Ethyl Benzene	9.351	91	1167096	13.889	ppbv	97
59) m/p-Xylene	9.548	91	1857561m	27.651	ppbv	
60) o-Xylene	9.962	91	913234	13.577	ppbv	99
61) Styrene	9.865	104	474195	14.250	ppbv	99
62) Isopropylbenzene	10.535	105	1362416	13.544	ppbv	99
63) 1,1,2,2-Tetrachloroethane	9.959	83	551386	13.491	ppbv	99
64) n-propylbenzene	10.985	120	356118	13.753	ppbv	94
65) tert-Butylbenzene	11.529	119	1200149	12.901	ppbv	98
66) Benzyl Chloride	11.613	91	134397	13.615	ppbv	100
67) sec-Butylbenzene	11.765	105	1643629	12.711	ppbv	99
69) p-Isopropyltoluene	11.924	119	1437016	12.906	ppbv	98
70) n-Butylbenzene	12.280	91	1477443	12.975	ppbv	99
71) 2-Chlorotoluene	10.898	91	1071432	13.724	ppbv	99
72) 4-Ethyltoluene	11.121	105	1136415	13.569	ppbv	99
73) 1,3,5-Trimethylbenzene	11.202	105	979783	13.395	ppbv	99
74) 1,2,4-Trimethylbenzene	11.535	105	1048874	12.447	ppbv	92
75) 1,3-Dichlorobenzene	11.607	146	626015	13.545	ppbv	99
76) 1,4-Dichlorobenzene	11.668	146	628694	13.668	ppbv	100
77) 1,2-Dichlorobenzene	11.947	146	602844	13.396	ppbv	100
78) Hexachloro-1,3-Butadiene	13.882	225	556392	12.147	ppbv	99
79) Naphthalene	13.513	128	1258479	13.653	ppbv	98
80) Naphthalene,2-methyl-	14.455	142	718900	16.018	ppbv	98
81) 1,2,4-Trichlorobenzene	13.439	180	598416	14.075	ppbv	99

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

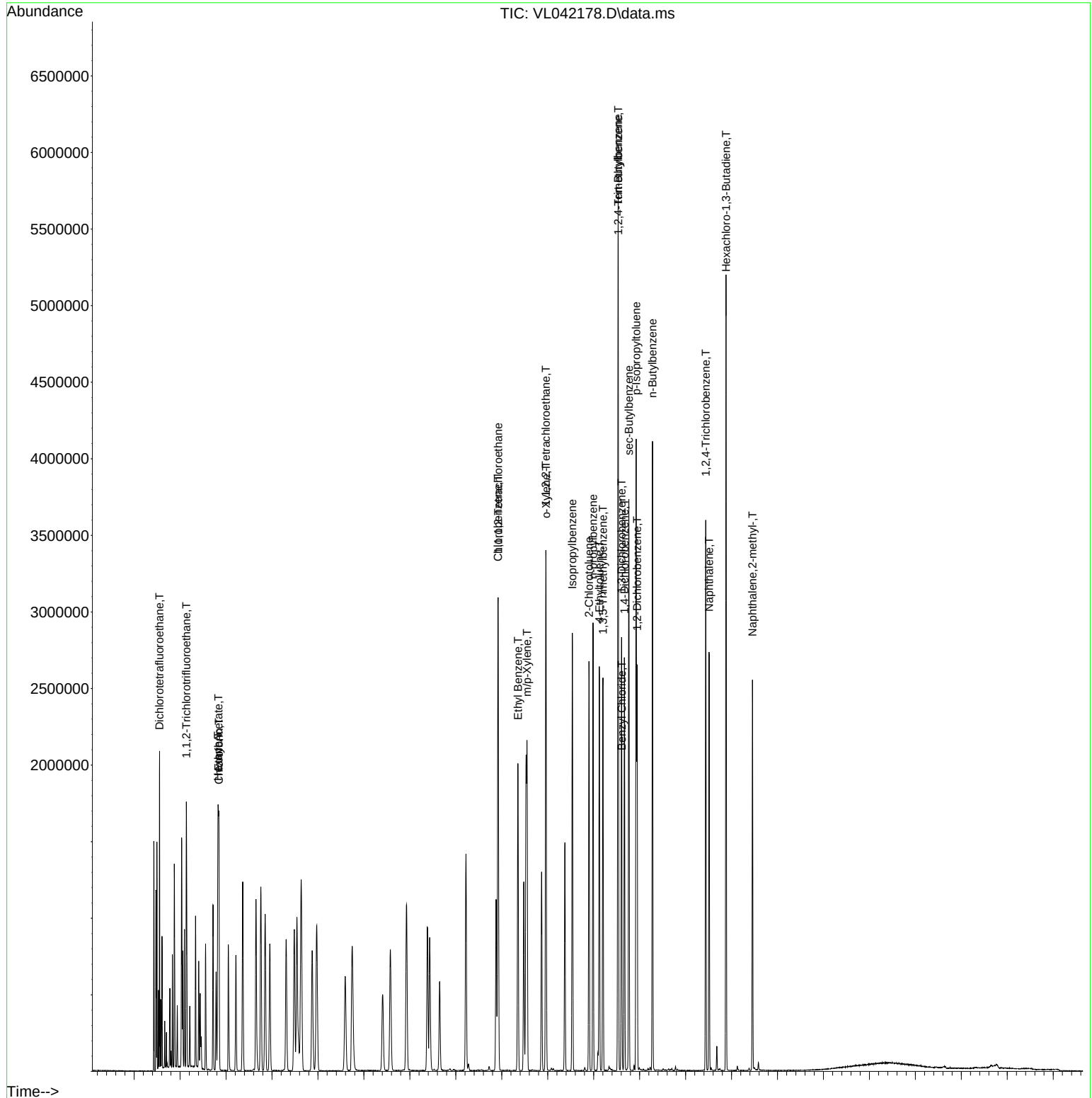
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
Data File : VL042178.D
Acq On : 27 Mar 2025 11:36
Operator : SY/MD
Sample : VSTDIC015
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025

Quant Time: Mar 28 01:37:01 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Fri Mar 28 01:31:23 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
 Data File : VL042179.D
 Acq On : 27 Mar 2025 12:23
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL032725

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 03/31/2025
 Supervised By : Mahesh Dadoda 04/03/2025

Quant Time: Mar 28 02:05:15 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M

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

QLast Update : Fri Mar 28 02:00:52 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.784	49	174350	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.952	114	498105	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.878	117	473357	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	10.374	95	379929	9.774	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.700%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.496	85	245714	9.545	ppbv	100
3) Chlorodifluoromethane	1.473	51	247046	9.394	ppbv	97
4) Chloromethane	1.531	50	98527	9.365	ppbv	98
5) Vinyl Chloride	1.577	62	95578	8.573	ppbv	97
6) Bromomethane	1.667	94	41950	8.799	ppbv	97
7) Chloroethane	1.703	64	37400	8.856	ppbv	94
8) Dichlorotetrafluoroethane	1.551	85	213819	9.753	ppbv	95
9) Propene	1.483	41	105338	8.739	ppbv	99
10) Heptane	4.972	43	298768	9.318	ppbv	100
11) Trichlorofluoromethane	1.874	101	236793	9.453	ppbv	97
12) 1,1,2-Trichlorotrifluo...	2.136	101	193965	9.421	ppbv	98
13) Ethanol	1.719	45	5773	5.066	ppbv	97
14) Bromoethene	1.780	108	73572	9.328	ppbv	97
15) Acetone	1.832	43	198300	8.132	ppbv	98
16) 1,3-Butadiene	1.606	39	97840	8.216	ppbv	99
17) tert-Butyl alcohol	2.039	59	276195	9.094	ppbv	99
18) 1,1-Dichloroethene	2.033	96	87137	9.053	ppbv	89
19) Isopropyl Alcohol	1.884	45	122768	8.923	ppbv	98
20) Methylene Chloride	2.059	84	72813	8.018	ppbv	97
21) Allyl Chloride	2.094	41	157418	9.154	ppbv	99
22) trans-1,2-Dichloroethene	2.337	96	101141	9.092	ppbv	93
23) Vinyl Acetate	2.460	43	90260	8.553	ppbv #	97
24) 1,1-Dichloroethane	2.405	63	197968	9.600	ppbv	99
25) Ethyl Acetate	2.832	43	592585	9.364	ppbv	99
26) Hexane	2.823	57	231125	9.455	ppbv	99
27) Carbon Disulfide	2.146	76	248834	9.493	ppbv	97
28) Methyl tert-Butyl Ether	2.437	73	146470	9.624	ppbv	95
29) Chloroform	2.845	83	344106	9.619	ppbv	100
30) Cyclohexane	3.852	84	197897	9.323	ppbv	98
31) cis-1,2-Dichloroethene	2.719	61	234487	9.449	ppbv	96
32) 1,1,1-Trichloroethane	3.363	97	365364	8.921	ppbv	99
34) 2-Butanone	2.554	43	331236	9.171	ppbv	99
35) Carbon Tetrachloride	3.758	117	363392	9.339	ppbv	98
36) Benzene	3.651	78	461261	9.341	ppbv	99
37) 1,2-Dichloroethane	3.217	62	273559	9.676	ppbv	99
38) Trichloroethene	4.541	130	191746	9.306	ppbv	97
39) 1,2-Dichloropropane	4.311	63	170839	9.500	ppbv	95
40) 1,4-Dioxane	4.577	88	80592	8.443	ppbv #	97
41) Tetrahydrofuran	3.052	42	196163	9.431	ppbv	99
42) Bromodichloromethane	4.486	83	384006	9.853	ppbv	100
43) Methyl Methacrylate	4.878	69	195339	9.344	ppbv	99
44) 2,2,4-Trimethylpentane	4.635	57	787400	9.436	ppbv	99
45) t-1,3-Dichloropropene	6.409	75	212335	9.467	ppbv	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
 Data File : VL042179.D
 Acq On : 27 Mar 2025 12:23
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICSVVL032725

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 03/31/2025
 Supervised By : Mahesh Dadoda 04/03/2025

Quant Time: Mar 28 02:05:15 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2
 QLast Update : Fri Mar 28 02:00:52 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.593	75	265101	9.643	ppbv	98
47) 1,1,2-Trichloroethane	6.577	97	183228	9.638	ppbv	98
48) Dibromochloromethane	7.383	129	322766	10.018	ppbv	100
49) Bromoform	9.480	173	285149	9.858	ppbv	99
50) 4-Methyl-2-Pentanone	5.749	43	500791	8.749	ppbv	99
51) 2-Hexanone	7.432	43	410889	8.741	ppbv #	99
52) Tetrachloroethene	8.221	164	173420	8.855	ppbv	93
53) Toluene	6.927	91	556897	9.514	ppbv	99
54) 1,2-Dibromoethane	7.645	107	256930	9.695	ppbv	98
56) 1,1,1,2-Tetrachloroethane	8.920	131	249270	9.567	ppbv	99
57) Chlorobenzene	8.917	112	422531	9.411	ppbv	98
58) Ethyl Benzene	9.351	91	791360	9.412	ppbv	98
59) m/p-Xylene	9.548	91	1260340m	18.772	ppbv	
60) o-Xylene	9.959	91	632918	9.404	ppbv	99
61) Styrene	9.866	104	315910	9.488	ppbv	99
62) Isopropylbenzene	10.539	105	944938	9.388	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.959	83	382635	9.357	ppbv	99
64) n-propylbenzene	10.985	120	244547	9.439	ppbv	98
65) tert-Butylbenzene	11.529	119	843828	9.065	ppbv	98
66) Benzyl Chloride	11.613	91	86804	8.789	ppbv	97
67) sec-Butylbenzene	11.765	105	1172636	9.063	ppbv	100
69) p-Isopropyltoluene	11.924	119	1019694	9.153	ppbv	100
70) n-Butylbenzene	12.280	91	1038548	9.115	ppbv	100
71) 2-Chlorotoluene	10.898	91	732874	9.382	ppbv	100
72) 4-Ethyltoluene	11.125	105	785185	9.370	ppbv	99
73) 1,3,5-Trimethylbenzene	11.202	105	673541	9.203	ppbv	98
74) 1,2,4-Trimethylbenzene	11.536	105	729155	8.648	ppbv	94
75) 1,3-Dichlorobenzene	11.607	146	426573	9.224	ppbv	99
76) 1,4-Dichlorobenzene	11.672	146	426318	9.263	ppbv	100
77) 1,2-Dichlorobenzene	11.947	146	412180	9.154	ppbv	99
78) Hexachloro-1,3-Butadiene	13.882	225	356386	7.776	ppbv	100
79) Naphthalene	13.513	128	773311	8.385	ppbv	99
80) Naphthalene,2-methyl-	14.455	142	323443	7.151	ppbv	99
81) 1,2,4-Trichlorobenzene	13.439	180	363863	8.553	ppbv	98

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
 Data File : VL042179.D
 Acq On : 27 Mar 2025 12:23
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL032725

Quant Time: Mar 28 02:05:15 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri Mar 28 02:00:52 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	1.476	1.409	4.5	94	0.00
3	Chlorodifluoromethane	1.508	1.417	6.0	91	0.00
4	Chloromethane	0.603	0.565	6.3	92	0.00
5 T	Vinyl Chloride	0.639	0.548	14.2	93	0.00
6 T	Bromomethane	0.273	0.241	11.7	87	0.00
7	Chloroethane	0.242	0.215	11.2	88	0.00
8 T	Dichlorotetrafluoroethane	1.257	1.226	2.5	94	0.00
9 T	Propene	0.691	0.604	12.6	85	0.00
10 T	Heptane	1.839	1.714	6.8	89	0.00
11 T	Trichlorofluoromethane	1.437	1.358	5.5	95	0.00
12 T	1,1,2-Trichlorotrifluoroeth	1.181	1.113	5.8	93	0.00
13	Ethanol	0.065	0.033#	49.2#	108	0.00
14 T	Bromoethene	0.452	0.422	6.6	94	0.00
15 T	Acetone	1.399	1.137	18.7	95	0.00
16 T	1,3-Butadiene	0.683	0.561	17.9	91	0.00
17	tert-Butyl alcohol	1.742	1.584	9.1	91	0.00
18 T	1,1-Dichloroethene	0.552	0.500	9.4	92	0.00
19 T	Isopropyl Alcohol	0.789	0.704	10.8	93	0.00
20 T	Methylene Chloride	0.521	0.418	19.8	89	0.00
21 T	Allyl Chloride	0.986	0.903	8.4	93	0.00
22 T	trans-1,2-Dichloroethene	0.638	0.580	9.1	92	0.00
23 T	Vinyl Acetate	0.605	0.518	14.4	97	0.00
24 T	1,1-Dichloroethane	1.183	1.135	4.1	94	0.00
25 T	Ethyl Acetate	3.630	3.399	6.4	92	0.00
26 T	Hexane	1.402	1.326	5.4	93	0.00
27 T	Carbon Disulfide	1.503	1.427	5.1	93	0.00
28 T	Methyl tert-Butyl Ether	0.873	0.840	3.8	94	0.00
29 T	Chloroform	2.052	1.974	3.8	95	0.00
30 T	Cyclohexane	1.217	1.135	6.7	91	0.00
31 T	cis-1,2-Dichloroethene	1.423	1.345	5.5	91	0.00
32 T	1,1,1-Trichloroethane	2.349	2.096	10.8	95	0.00
33 I	1,4-Difluorobenzene	1.000	1.000	0.0	91	0.00
34 T	2-Butanone	0.725	0.665	8.3	91	0.00
35 T	Carbon Tetrachloride	0.781	0.730	6.5	95	0.00
36 T	Benzene	0.991	0.926	6.6	91	0.00
37 T	1,2-Dichloroethane	0.568	0.549	3.3	93	0.00
38 T	Trichloroethene	0.414	0.385	7.0	94	0.00
39 T	1,2-Dichloropropane	0.361	0.343	5.0	93	0.00
40 T	1,4-Dioxane	0.192	0.162	15.6	87	0.00
41 T	Tetrahydrofuran	0.418	0.394	5.7	90	0.00
42 T	Bromodichloromethane	0.782	0.771	1.4	92	0.00
43	Methyl Methacrylate	0.420	0.392	6.7	89	0.00
44 T	2,2,4-Trimethylpentane	1.675	1.581	5.6	90	0.00
45 T	t-1,3-Dichloropropene	0.450	0.426	5.3	89	0.00
46 T	cis-1,3-Dichloropropene	0.552	0.532	3.6	88	0.00
47 T	1,1,2-Trichloroethane	0.382	0.368	3.7	92	0.00
48 T	Dibromochloromethane	0.647	0.648	-0.2	93	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
 Data File : VL042179.D
 Acq On : 27 Mar 2025 12:23
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL032725

Quant Time: Mar 28 02:05:15 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri Mar 28 02:00:52 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	0.581	0.572	1.5	90	0.00
50 T	4-Methyl-2-Pentanone	1.149	1.005	12.5	89	0.00
51 T	2-Hexanone	0.944	0.825	12.6	89	0.00
52 T	Tetrachloroethene	0.393	0.348	11.5	93	0.00
53 T	Toluene	1.175	1.118	4.9	91	0.00
54 T	1,2-Dibromoethane	0.532	0.516	3.0	93	0.00
55 I	Chlorobenzene-d5	1.000	1.000	0.0	91	0.00
56	1,1,1,2-Tetrachloroethane	0.550	0.527	4.2	94	0.00
57 T	Chlorobenzene	0.949	0.893	5.9	93	0.00
58 T	Ethyl Benzene	1.776	1.672	5.9	91	0.00
59 T	m/p-Xylene	1.418	1.331	6.1	92	0.00
60 T	o-Xylene	1.422	1.337	6.0	92	0.00
61 T	Styrene	0.703	0.667	5.1	89	0.00
62	Isopropylbenzene	2.126	1.996	6.1	93	0.00
63 T	1,1,2,2-Tetrachloroethane	0.864	0.808	6.5	93	0.00
64	n-propylbenzene	0.547	0.517	5.5	94	0.00
65	tert-Butylbenzene	1.966	1.783	9.3	94	0.00
66 T	Benzyl Chloride	0.209	0.183	12.4	82	0.00
67	sec-Butylbenzene	2.733	2.477	9.4	94	0.00
68 S	1-Bromo-4-Fluorobenzene	0.821	0.803	2.2	90	0.00
69	p-Isopropyltoluene	2.354	2.154	8.5	94	0.00
70	n-Butylbenzene	2.407	2.194	8.8	94	0.00
71	2-Chlorotoluene	1.650	1.548	6.2	92	0.00
72 T	4-Ethyltoluene	1.770	1.659	6.3	93	0.00
73 T	1,3,5-Trimethylbenzene	1.546	1.423	8.0	93	0.00
74 T	1,2,4-Trimethylbenzene	1.781	1.540	13.5	93	0.00
75 T	1,3-Dichlorobenzene	0.977	0.901	7.8	93	0.00
76 T	1,4-Dichlorobenzene	0.972	0.901	7.3	92	0.00
77 T	1,2-Dichlorobenzene	0.951	0.871	8.4	93	0.00
78 T	Hexachloro-1,3-Butadiene	0.968	0.753	22.2	86	0.00
79 T	Naphthalene	1.948	1.634	16.1	82	0.00
80 T	Naphthalene,2-methyl-	0.955	0.683	28.5	63	0.00
81 T	1,2,4-Trichlorobenzene	0.899	0.769	14.5	82	0.00

(#) = Out of Range

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
 Data File : VL042180.D
 Acq On : 27 Mar 2025 13:50
 Operator : SY/MD
 Sample : VL0327ABL01
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0327ABL01

Quant Time: Mar 28 02:12:10 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri Mar 28 02:00:52 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.787	49	170921	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.959	114	483563	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.881	117	446480	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.377	95	364194	9.933	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.300%

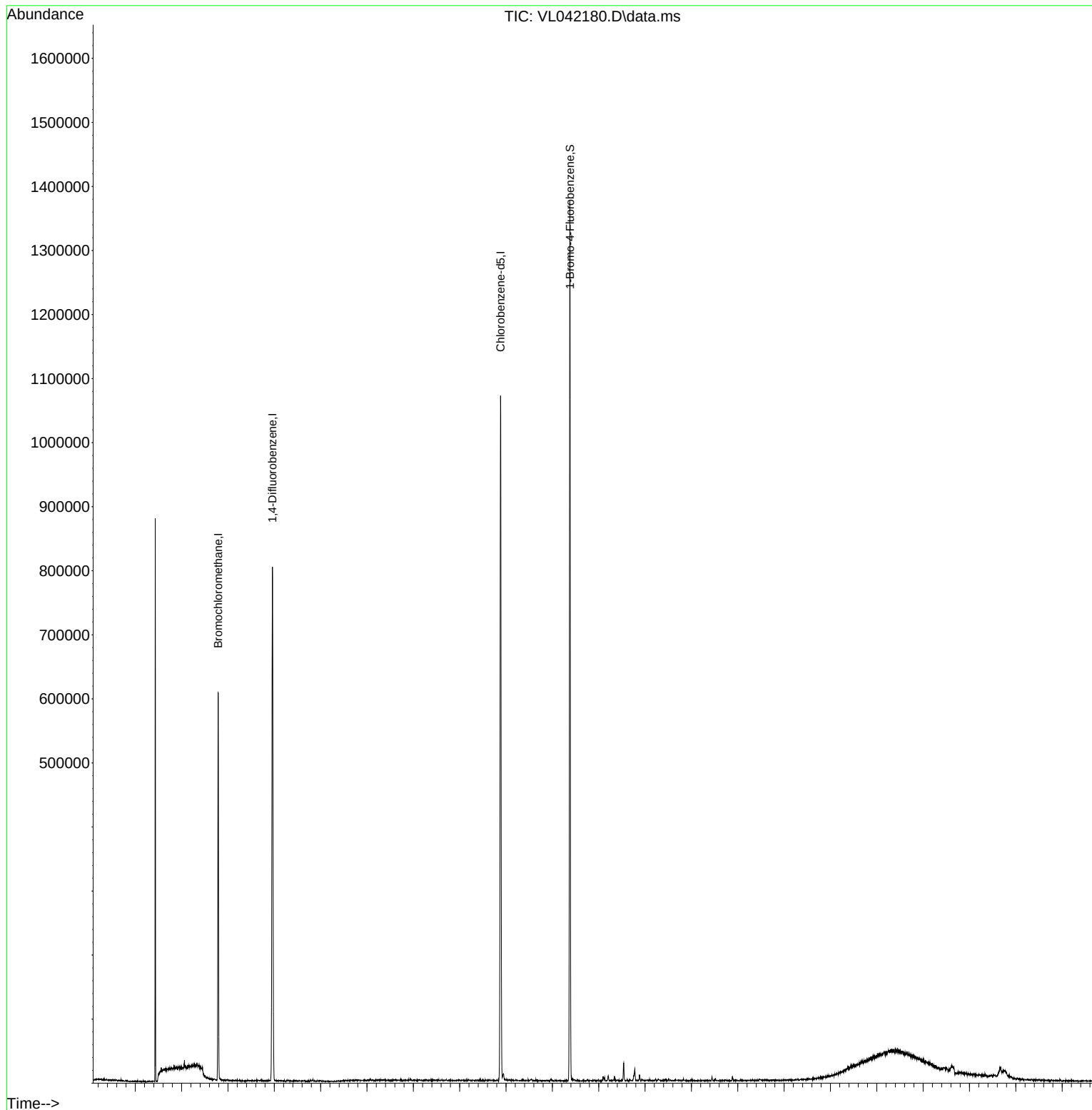
Target Compounds	Qvalue

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
Data File : VL042180.D
Acq On : 27 Mar 2025 13:50
Operator : SY/MD
Sample : VL0327ABL01
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VL0327ABL01

Quant Time: Mar 28 02:12:10 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Fri Mar 28 02:00:52 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
 Data File : VL042181.D
 Acq On : 27 Mar 2025 14:39
 Operator : SY/MD
 Sample : VL0327ABS01
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0327ABS01

Quant Time: Mar 28 02:12:34 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2
 QLast Update : Fri Mar 28 02:00:52 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 03/31/2025
 Supervised By : Mahesh Dadoda 04/03/2025

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

Internal Standards						
1) Bromochloromethane	2.787	49	166105	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.955	114	483209	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.881	117	452250	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.377	95	368941	9.934	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.300%
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.499	85	243063	9.911	ppbv	100
3) Chlorodifluoromethane	1.476	51	241481	9.638	ppbv	99
4) Chloromethane	1.531	50	96241	9.602	ppbv	99
5) Vinyl Chloride	1.580	62	91865	8.649	ppbv	94
6) Bromomethane	1.667	94	40361	8.886	ppbv	92
7) Chloroethane	1.703	64	37307	9.273	ppbv	100
8) Dichlorotetrafluoroethane	1.554	85	208981	10.006	ppbv	94
9) Propene	1.482	41	102862	8.957	ppbv	99
10) Heptane	4.978	43	290621	9.514	ppbv	100
11) Trichlorofluoromethane	1.877	101	232086	9.725	ppbv	95
12) 1,1,2-Trichlorotrifluo...	2.140	101	178792	9.115	ppbv	99
13) Ethanol	1.719	45	5124	4.720	ppbv	93
14) Bromoethene	1.780	108	69775	9.286	ppbv	98
15) Acetone	1.835	43	195717	8.425	ppbv	96
16) 1,3-Butadiene	1.609	39	98877	8.716	ppbv	100
17) tert-Butyl alcohol	2.039	59	266424	9.208	ppbv	98
18) 1,1-Dichloroethene	2.033	96	83339	9.088	ppbv	95
19) Isopropyl Alcohol	1.884	45	120986	9.230	ppbv	97
20) Methylene Chloride	2.062	84	69930	8.083	ppbv	96
21) Allyl Chloride	2.094	41	147810	9.022	ppbv	99
22) trans-1,2-Dichloroethene	2.340	96	96616	9.116	ppbv	99
23) Vinyl Acetate	2.463	43	94696	9.418	ppbv	96
24) 1,1-Dichloroethane	2.408	63	189793	9.661	ppbv	99
25) Ethyl Acetate	2.835	43	574442	9.528	ppbv	99
26) Hexane	2.826	57	224704	9.649	ppbv	98
27) Carbon Disulfide	2.149	76	230410	9.226	ppbv #	94
28) Methyl tert-Butyl Ether	2.441	73	149961	10.342	ppbv	95
29) Chloroform	2.848	83	336404	9.870	ppbv	96
30) Cyclohexane	3.855	84	194220	9.604	ppbv	98
31) cis-1,2-Dichloroethene	2.719	61	231151	9.777	ppbv	97
32) 1,1,1-Trichloroethane	3.366	97	359860	9.223	ppbv	99
34) 2-Butanone	2.557	43	320843	9.157	ppbv	100
35) Carbon Tetrachloride	3.761	117	361037	9.565	ppbv	99
36) Benzene	3.658	78	452718	9.450	ppbv	98
37) 1,2-Dichloroethane	3.217	62	277247	10.109	ppbv	98
38) Trichloroethene	4.548	130	187209	9.366	ppbv	98
39) 1,2-Dichloropropane	4.315	63	164374	9.422	ppbv	95
40) 1,4-Dioxane	4.583	88	82012	8.857	ppbv #	92
41) Tetrahydrofuran	3.052	42	188907	9.362	ppbv	99
42) Bromodichloromethane	4.489	83	377092	9.974	ppbv	98
43) Methyl Methacrylate	4.881	69	190156	9.377	ppbv	100
44) 2,2,4-Trimethylpentane	4.638	57	769803	9.509	ppbv	99
45) t-1,3-Dichloropropene	6.415	75	204004	9.376	ppbv	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
 Data File : VL042181.D
 Acq On : 27 Mar 2025 14:39
 Operator : SY/MD
 Sample : VL0327ABS01
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0327ABS01

Manual Integrations
 APPROVED

Quant Time: Mar 28 02:12:34 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M

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

QLast Update : Fri Mar 28 02:00:52 2025

Response via : Initial Calibration

Reviewed By : Semsettin Yesilyurt 03/31/2025
 Supervised By : Mahesh Dadoda 04/03/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.599	75	251694	9.437	ppbv	97
47) 1,1,2-Trichloroethane	6.583	97	175509	9.517	ppbv	99
48) Dibromochloromethane	7.386	129	310158	9.923	ppbv	99
49) Bromoform	9.483	173	279382	9.957	ppbv	99
50) 4-Methyl-2-Pentanone	5.748	43	481919	8.679	ppbv	98
51) 2-Hexanone	7.435	43	395520	8.674	ppbv	99
52) Tetrachloroethene	8.224	164	167015	8.791	ppbv	95
53) Toluene	6.930	91	540612	9.520	ppbv	99
54) 1,2-Dibromoethane	7.655	107	246519	9.589	ppbv	99
56) 1,1,1,2-Tetrachloroethane	8.924	131	240905	9.677	ppbv	96
57) Chlorobenzene	8.920	112	407816	9.507	ppbv	98
58) Ethyl Benzene	9.354	91	769818	9.583	ppbv	97
59) m/p-Xylene	9.551	91	1220553m	19.028	ppbv	
60) o-Xylene	9.962	91	612011	9.518	ppbv	98
61) Styrene	9.869	104	306658	9.639	ppbv	99
62) Isopropylbenzene	10.539	105	923163	9.600	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.962	83	370486	9.483	ppbv	99
64) n-propylbenzene	10.989	120	239652	9.682	ppbv	98
65) tert-Butylbenzene	11.532	119	828438	9.315	ppbv	98
66) Benzyl Chloride	11.616	91	81404	8.627	ppbv	98
67) sec-Butylbenzene	11.769	105	1155378	9.347	ppbv	99
69) p-Isopropyltoluene	11.927	119	1011573	9.503	ppbv	99
70) n-Butylbenzene	12.283	91	1022935	9.397	ppbv	99
71) 2-Chlorotoluene	10.901	91	713648	9.562	ppbv	98
72) 4-Ethyltoluene	11.128	105	766720	9.576	ppbv	100
73) 1,3,5-Trimethylbenzene	11.205	105	660905	9.451	ppbv	99
74) 1,2,4-Trimethylbenzene	11.539	105	718683	8.921	ppbv	97
75) 1,3-Dichlorobenzene	11.610	146	415378	9.401	ppbv	100
76) 1,4-Dichlorobenzene	11.671	146	418670	9.521	ppbv	99
77) 1,2-Dichlorobenzene	11.947	146	401634	9.336	ppbv	99
78) Hexachloro-1,3-Butadiene	13.882	225	346566	7.914	ppbv	100
79) Naphthalene	13.513	128	762976	8.659	ppbv	99
80) Naphthalene,2-methyl-	14.458	142	308264	7.134	ppbv	98
81) 1,2,4-Trichlorobenzene	13.442	180	356193	8.764	ppbv	99

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

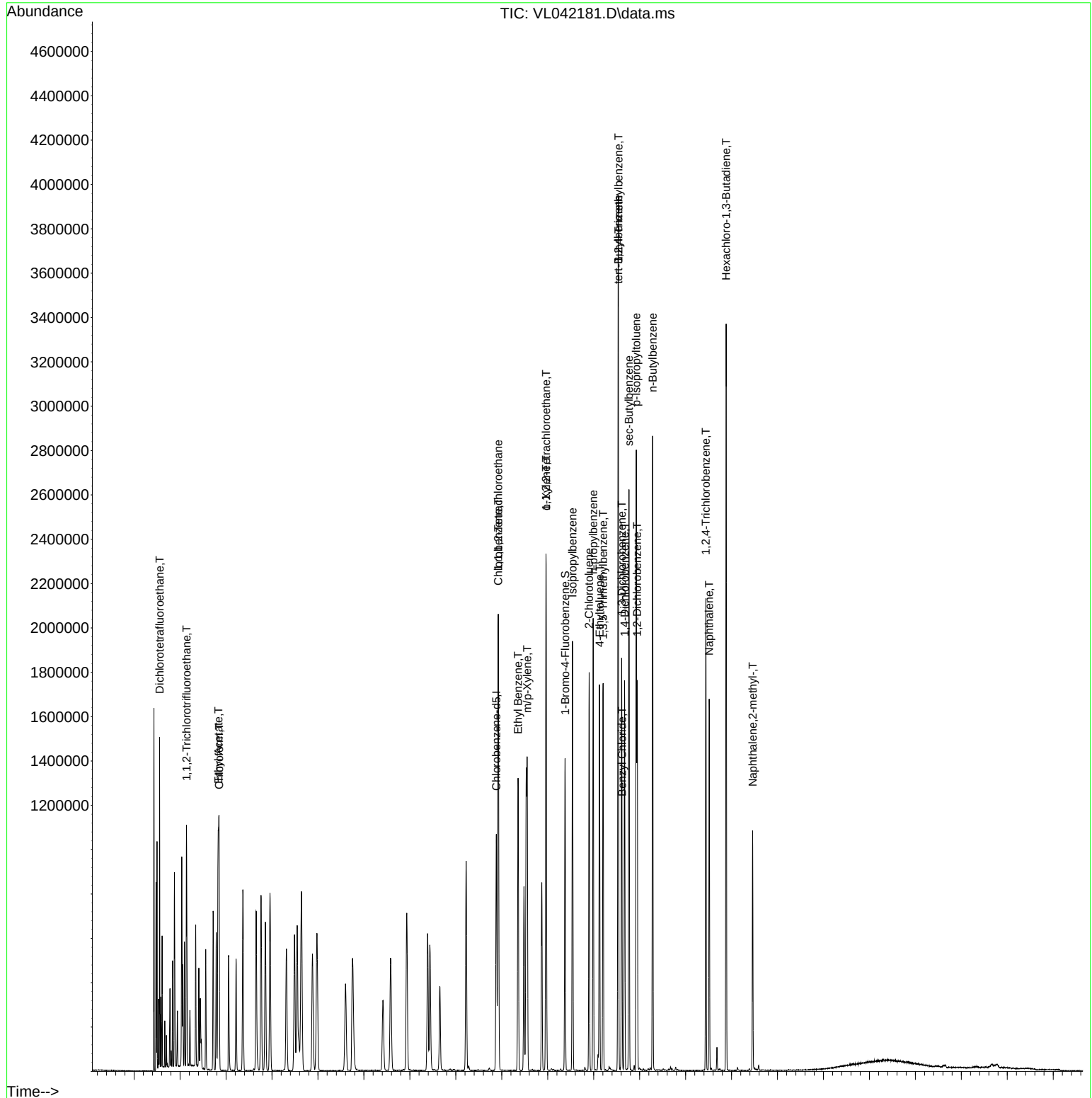
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
Data File : VL042181.D
Acq On : 27 Mar 2025 14:39
Operator : SY/MD
Sample : VL0327ABS01
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VL0327ABS01

Manual Integrations
APPROVED

Reviewed By : Semsettin Yesilyurt 03/31/2025
Supervised By : Mahesh Dadoda 04/03/2025

Quant Time: Mar 28 02:12:34 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Fri Mar 28 02:00:52 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
 Data File : VL042182.D
 Acq On : 27 Mar 2025 16:41
 Operator : SY/MD
 Sample : QC032625 CAN 10448
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 QC032625 CAN 10448

Quant Time: Mar 28 02:13:30 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri Mar 28 02:00:52 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.787	49	189309	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.959	114	546112	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.885	117	504808	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.377	95	407475	9.829	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.300%

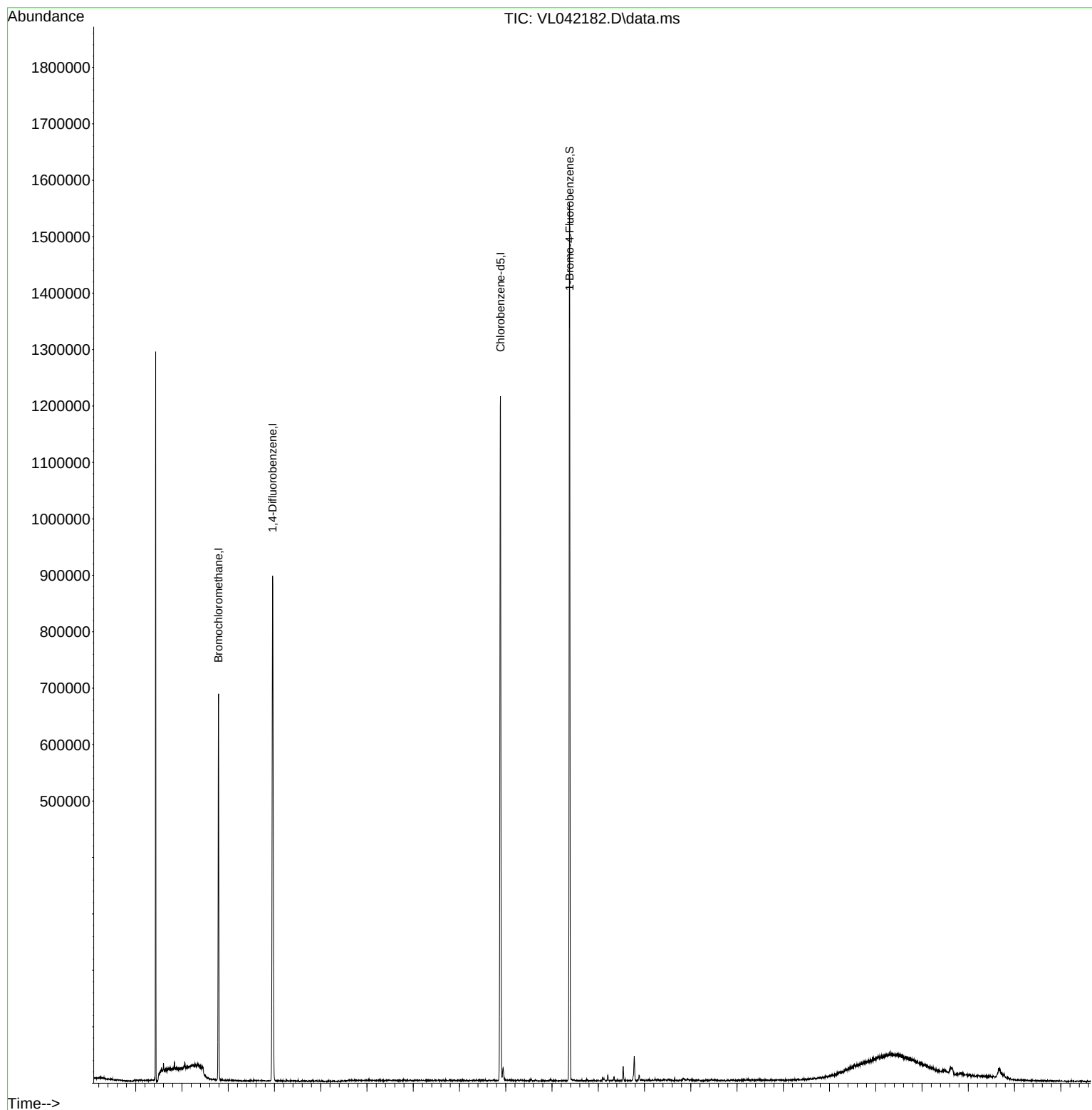
Target Compounds	Qvalue

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
Data File : VL042182.D
Acq On : 27 Mar 2025 16:41
Operator : SY/MD
Sample : QC032625 CAN 10448
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
QC032625 CAN 10448

Quant Time: Mar 28 02:13:30 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Fri Mar 28 02:00:52 2025
Response via : Initial Calibration



Instrument ID: **MSVOA_L**

Daily Analysis Runlog For Sequence/QC Batch ID # VL011425

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

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

Instrument ID: **MSVOA_L**

Daily Analysis Runlog For Sequence/QC Batch ID # VL011425

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

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

M : Manual Integration

Instrument ID: **MSVOA_L**

Daily Analysis Runlog For Sequence/QC Batch ID # VL020325

Review By	Semsettin Yesilyurt	Review On	2/4/2025 9:24:56 AM		
Supervise By	Maresh Dadoda	Supervise On	2/4/2025 3:44:53 PM		
SubDirectory	VL020325	HP Acquire Method	TO15AIR.M	HP Processing Method	VL011425AIR.M
STD. NAME		STD REF.#			
Tune/Reschk		AP2569			
Initial Calibration Stds		AP2571,AP2572,AP2573			
CCC		AP2571			
Internal Standard/PEM		AP2569			
ICV/I.BLK		AP2574			
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VL041957.D	03 Feb 2025 09:47	SY/MD	Ok
2	VSTDCCC010	VL041958.D	03 Feb 2025 10:48	SY/MD	Ok,M
3	VL0203ABL01	VL041959.D	03 Feb 2025 11:34	SY/MD	Ok
4	VL0203ABL02	VL041960.D	03 Feb 2025 12:05	SY/MD	Ok
5	VL0203ABS01	VL041961.D	03 Feb 2025 12:57	SY/MD	Ok,M
6	Q1222-01	VL041962.D	03 Feb 2025 13:57	SY/MD	Ok,M
7	Q1222-01DL	VL041963.D	03 Feb 2025 14:28	SY/MD	Not Ok
8	Q1256-01	VL041964.D	03 Feb 2025 14:59	SY/MD	Ok,M
9	Q1256-01DL	VL041965.D	03 Feb 2025 15:30	SY/MD	Not Ok
10	QC012825 CAN 10439	VL041966.D	03 Feb 2025 16:02	SY/MD	Ok
11	Q1222-02	VL041967.D	03 Feb 2025 16:35	SY/MD	Ok,M
12	Q1222-02DUP	VL041968.D	03 Feb 2025 17:08	SY/MD	Ok,M
13	Q1222-03	VL041969.D	03 Feb 2025 17:41	SY/MD	Ok,M
14	Q1256-02	VL041970.D	03 Feb 2025 18:15	SY/MD	Ok,M
15	Q1168-14 0.03	VL041971.D	03 Feb 2025 21:01	SY/MD	Not Ok
16	Q1168-13 0.03	VL041972.D	03 Feb 2025 21:32	SY/MD	Ok,M
17	Q1168-14 0.03	VL041973.D	03 Feb 2025 22:13	SY/MD	Ok,M
18	QC020325 CAN 10599	VL041974.D	04 Feb 2025 08:03	SY/MD	Ok
19	VSTDCCC010	VL041975.D	04 Feb 2025 08:34	SY/MD	Ok,M

M : Manual Integration

Instrument ID: **MSVOA_L**

Daily Analysis Runlog For Sequence/QC Batch ID # VL022525

Review By	Semsettin Yesilyurt	Review On	2/26/2025 8:27:25 AM		
Supervise By	Maresh Dadoda	Supervise On	2/26/2025 1:45:21 PM		
SubDirectory	VL022525	HP Acquire Method	TO15AIR.M	HP Processing Method	VL022525AIR.M
STD. NAME		STD REF.#			
Tune/Reschk		AP2576			
Initial Calibration Stds		AP2582,AP2584,AP2585			
CCC		AP2582			
Internal Standard/PEM		AP2576			
ICV/I.BLK		AP2586			
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VL042040.D	25 Feb 2025 07:56	SY/MD	Ok
2	VSTDICCC010	VL042041.D	25 Feb 2025 08:56	SY/MD	Ok,M
3	VSTDICCC002	VL042042.D	25 Feb 2025 09:29	SY/MD	Ok,M
4	VSTDICCC001	VL042043.D	25 Feb 2025 10:00	SY/MD	Ok,M
5	VSTDICCC0.5	VL042044.D	25 Feb 2025 10:31	SY/MD	Ok,M
6	VSTDICCC0.1	VL042045.D	25 Feb 2025 11:03	SY/MD	Ok,M
7	VSTDICCC0.03	VL042046.D	25 Feb 2025 11:34	SY/MD	Ok,M
8	VSTDICCC015	VL042047.D	25 Feb 2025 12:07	SY/MD	Ok,M
9	VSTDICV010	VL042048.D	25 Feb 2025 13:15	SY/MD	Ok,M

M : Manual Integration

Instrument ID: MSVOA_L

Daily Analysis Runlog For Sequence/QC Batch ID # VL031425

Review By	Semsettin Yesilyurt	Review On	3/17/2025 8:36:35 AM		
Supervise By	Maresh Dadoda	Supervise On	3/17/2025 1:46:41 PM		
SubDirectory	VL031425	HP Acquire Method	TO15AIR.M	HP Processing Method	VL022525AIR.M
STD. NAME		STD REF.#			
Tune/Reschk		AP2588			
Initial Calibration Stds		AP2582,AP2584,AP2585			
CCC		AP2582			
Internal Standard/PEM		AP2588			
ICV/I.BLK		AP2586			
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VL042140.D	14 Mar 2025 07:56	SY/MD	Ok
2	VSTDCCC010	VL042141.D	14 Mar 2025 08:39	SY/MD	Ok,M
3	VL0314ABL01	VL042142.D	14 Mar 2025 09:23	SY/MD	Ok
4	QC031025 CAN 10267	VL042143.D	14 Mar 2025 10:09	SY/MD	Ok
5	QC031225 CAN 10300	VL042144.D	14 Mar 2025 10:40	SY/MD	Not Ok
6	QC031325 CAN 10266	VL042145.D	14 Mar 2025 11:11	SY/MD	Ok
7	VL0314ABS01	VL042146.D	14 Mar 2025 12:27	SY/MD	Ok,M
8	QC031225 CAN 10300	VL042147.D	14 Mar 2025 15:56	SY/MD	Ok
9	QC031225 CAN 10300	VL042148.D	14 Mar 2025 16:29	SY/MD	Not Ok

M : Manual Integration

Instrument ID: **MSVOA_L**

Daily Analysis Runlog For Sequence/QC Batch ID # VL032725

Review By	Maresh Dadoda	Review On	4/3/2025 8:14:07 AM		
Supervise By	Semsettin Yesilyurt	Supervise On	4/3/2025 8:45:16 AM		
SubDirectory	VL032725	HP Acquire Method	TO15AIR.M	HP Processing Method	VL032725AIR.M
STD. NAME		STD REF.#			
Tune/Reschk		AP2589			
Initial Calibration Stds		AP2593,AP2595,AP2596			
CCC		AP2593			
Internal Standard/PEM		AP2589			
ICV/I.BLK		AP2594			
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VL042171.D	27 Mar 2025 07:44	SY/MD	Ok
2	VSTDICCC010	VL042172.D	27 Mar 2025 08:26	SY/MD	Ok,M
3	VSTDICCC002	VL042173.D	27 Mar 2025 08:59	SY/MD	Ok,M
4	VSTDICCC001	VL042174.D	27 Mar 2025 09:30	SY/MD	Ok,M
5	VSTDICCC0.5	VL042175.D	27 Mar 2025 10:01	SY/MD	Ok,M
6	VSTDICCC0.1	VL042176.D	27 Mar 2025 10:32	SY/MD	Ok,M
7	VSTDICCC0.03	VL042177.D	27 Mar 2025 11:03	SY/MD	Ok,M
8	VSTDICCC015	VL042178.D	27 Mar 2025 11:36	SY/MD	Ok,M
9	VSTDICV010	VL042179.D	27 Mar 2025 12:23	SY/MD	Ok,M
10	VL0327ABL01	VL042180.D	27 Mar 2025 13:50	SY/MD	Ok
11	VL0327ABS01	VL042181.D	27 Mar 2025 14:39	SY/MD	Ok,M
12	QC032625 CAN 10448	VL042182.D	27 Mar 2025 16:41	SY/MD	Ok
13	Q1649-01	VL042183.D	27 Mar 2025 17:13	SY/MD	Not Ok
14	Q1649-02	VL042184.D	27 Mar 2025 17:45	SY/MD	Not Ok
15	Q1669-01	VL042185.D	27 Mar 2025 18:22	SY/MD	Dilution
16	Q1669-02	VL042186.D	27 Mar 2025 18:59	SY/MD	Ok,M
17	Q1669-03	VL042187.D	27 Mar 2025 19:36	SY/MD	Ok,M
18	Q1669-04	VL042188.D	27 Mar 2025 20:12	SY/MD	Ok,M
19	Q1669-09	VL042189.D	27 Mar 2025 20:48	SY/MD	Ok,M
20	Q1669-09DUP	VL042190.D	27 Mar 2025 21:24	SY/MD	Ok,M
21	Q1669-05	VL042191.D	27 Mar 2025 21:57	SY/MD	Not Ok

Instrument ID: **MSVOA_L**

Daily Analysis Runlog For Sequence/QC Batch ID # VL032725

Review By	Maresh Dadoda	Review On	4/3/2025 8:14:07 AM		
Supervise By	Semsettin Yesilyurt	Supervise On	4/3/2025 8:45:16 AM		
SubDirectory	VL032725	HP Acquire Method	TO15AIR.M	HP Processing Method	VL032725AIR.M
STD. NAME		STD REF.#			
Tune/Reschk		AP2589			
Initial Calibration Stds		AP2593,AP2595,AP2596			
CCC		AP2593			
Internal Standard/PEM		AP2589			
ICV/I.BLK		AP2594			
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

22	Q1669-07DL	VL042192.D	27 Mar 2025 22:29	SY/MD	Ok,M
23	Q1669-08	VL042193.D	27 Mar 2025 23:01	SY/MD	Not Ok
24	VIBLK	VL042194.D	27 Mar 2025 23:34	SY/MD	Ok
25	Q1669-01DL	VL042195.D	28 Mar 2025 00:06	SY/MD	Ok,M
26	Q1669-01DUP	VL042196.D	28 Mar 2025 00:44	SY/MD	Ok,M
27	Q1669-05	VL042197.D	28 Mar 2025 01:20	SY/MD	Ok,M
28	Q1669-07	VL042198.D	28 Mar 2025 01:57	SY/MD	Dilution
29	Q1669-08	VL042199.D	28 Mar 2025 02:33	SY/MD	Ok,M

M : Manual Integration

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
 Data File : VL042172.D
 Acq On : 27 Mar 2025 08:26
 Operator : SY/MD
 Sample : VSTDICCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Quant Time: Mar 28 01:31:57 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri Mar 28 01:31:23 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.784	49	187002	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.952	114	545068	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.875	117	519536	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.371	95	422410	9.901	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.000%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.496	85	262496	9.507	ppbv	100
3) Chlorodifluoromethane	1.473	51	272522	9.662	ppbv	100
4) Chloromethane	1.531	50	107099	9.491	ppbv	100
5) Vinyl Chloride	1.577	62	102699	8.925	ppbv	100
6) Bromomethane	1.664	94	47950	9.377	ppbv	100
7) Chloroethane	1.703	64	42516	9.387	ppbv	100
8) Dichlorotetrafluoroethane	1.551	85	227041	9.656	ppbv	100
9) Propene	1.483	41	123386	9.709	ppbv	100
10) Heptane	4.972	43	335086	9.744	ppbv	100
11) Trichlorofluoromethane	1.874	101	250349	9.318	ppbv	100
12) 1,1,2-Trichlorotrifluo...	2.137	101	209365	9.481	ppbv	100
13) Ethanol	1.719	45	5338	5.364	ppbv	100
14) Bromoethene	1.777	108	77999	9.220	ppbv	100
15) Acetone	1.832	43	208061	7.955	ppbv	100
16) 1,3-Butadiene	1.606	39	107104	9.105	ppbv	100
17) tert-Butyl alcohol	2.036	59	302616	9.290	ppbv	100
18) 1,1-Dichloroethene	2.030	96	94236	9.128	ppbv	100
19) Isopropyl Alcohol	1.884	45	131359	8.902	ppbv	100
20) Methylene Chloride	2.059	84	81828	8.401	ppbv	100
21) Allyl Chloride	2.091	41	168602	9.141	ppbv	100
22) trans-1,2-Dichloroethene	2.337	96	110371	9.149	ppbv	100
23) Vinyl Acetate	2.460	43	93080	8.563	ppbv	100
24) 1,1-Dichloroethane	2.405	63	209753	9.484	ppbv	100
25) Ethyl Acetate	2.833	43	646501	9.524	ppbv	100
26) Hexane	2.823	57	249331	9.510	ppbv	100
27) Carbon Disulfide	2.146	76	268507	9.550	ppbv	100
28) Methyl tert-Butyl Ether	2.438	73	155398	9.520	ppbv	100
29) Chloroform	2.845	83	361264	9.415	ppbv	100
30) Cyclohexane	3.852	84	217215	9.537	ppbv	100
31) cis-1,2-Dichloroethene	2.716	61	256425	9.634	ppbv	100
32) 1,1,1-Trichloroethane	3.363	97	385628	8.784	ppbv	100
34) 2-Butanone	2.554	43	363735	9.203	ppbv	100
35) Carbon Tetrachloride	3.758	117	382925	9.129	ppbv	100
36) Benzene	3.651	78	508860	9.417	ppbv	100
37) 1,2-Dichloroethane	3.214	62	292937	9.469	ppbv	100
38) Trichloroethene	4.545	130	204027	9.045	ppbv	100
39) 1,2-Dichloropropane	4.312	63	183439	9.321	ppbv	100
40) 1,4-Dioxane	4.577	88	92327	9.042	ppbv #	100
41) Tetrahydrofuran	3.049	42	216851	9.643	ppbv	100
42) Bromodichloromethane	4.483	83	418887	9.822	ppbv	100
43) Methyl Methacrylate	4.872	69	219399	9.618	ppbv	100
44) 2,2,4-Trimethylpentane	4.635	57	876649	9.600	ppbv	100
45) t-1,3-Dichloropropene	6.406	75	239180	9.746	ppbv	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
 Data File : VL042172.D
 Acq On : 27 Mar 2025 08:26
 Operator : SY/MD
 Sample : VSTDICCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

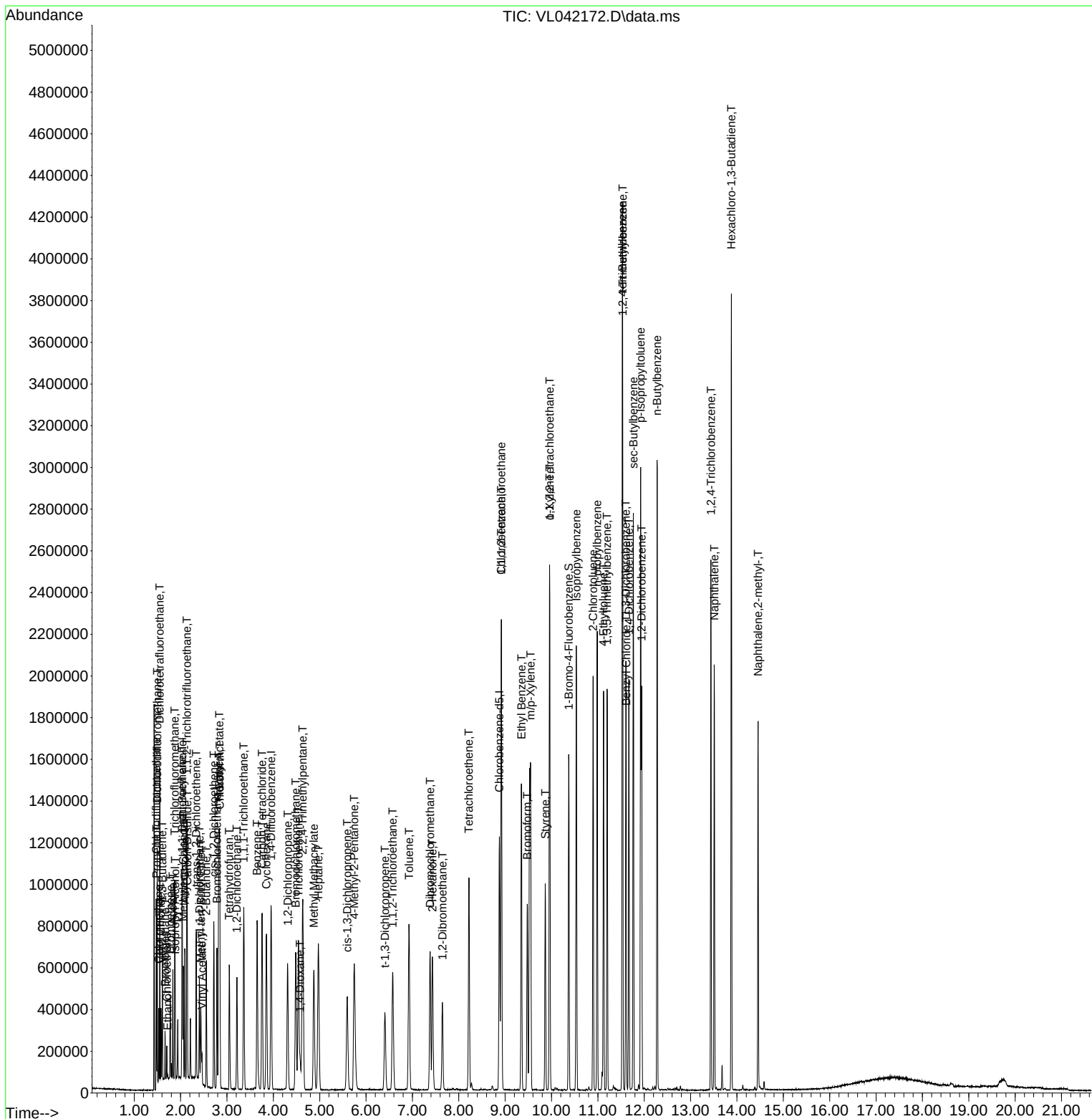
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

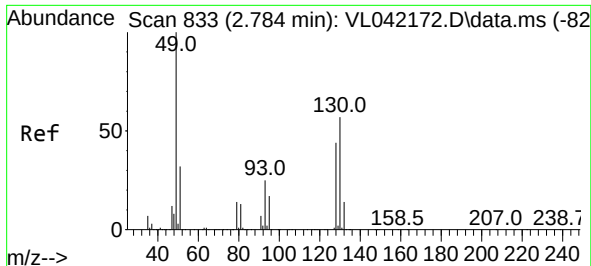
Quant Time: Mar 28 01:31:57 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri Mar 28 01:31:23 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.593	75	300021	9.973	ppbv	100
47) 1,1,2-Trichloroethane	6.574	97	198176	9.526	ppbv	100
48) Dibromochloromethane	7.380	129	346499	9.828	ppbv	100
49) Bromoform	9.477	173	317189	10.021	ppbv	100
50) 4-Methyl-2-Pentanone	5.745	43	559800	8.934	ppbv	100
51) 2-Hexanone	7.432	43	460013	8.848	ppbv #	100
52) Tetrachloroethene	8.218	164	186912	8.722	ppbv	100
53) Toluene	6.927	91	613378	9.576	ppbv	100
54) 1,2-Dibromoethane	7.649	107	276797	9.536	ppbv	100
56) 1,1,1,2-Tetrachloroethane	8.917	131	265037	9.268	ppbv	100
57) Chlorobenzene	8.917	112	454511	9.223	ppbv	100
58) Ethyl Benzene	9.351	91	868003	9.406	ppbv	100
59) m/p-Xylene	9.549	91	595445	8.071	ppbv #	9
60) o-Xylene	9.960	91	689933	9.340	ppbv	100
61) Styrene	9.866	104	354697	9.706	ppbv	100
62) Isopropylbenzene	10.536	105	1019255	9.227	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.960	83	413392	9.210	ppbv	100
64) n-propylbenzene	10.986	120	259405	9.122	ppbv	100
65) tert-Butylbenzene	11.529	119	901951	8.828	ppbv	100
66) Benzyl Chloride	11.610	91	105411	9.724	ppbv	100
67) sec-Butylbenzene	11.766	105	1249106	8.796	ppbv	100
69) p-Isopropyltoluene	11.924	119	1079675	8.830	ppbv	100
70) n-Butylbenzene	12.277	91	1110351	8.879	ppbv	100
71) 2-Chlorotoluene	10.898	91	799102	9.320	ppbv	100
72) 4-Ethyltoluene	11.122	105	846232	9.200	ppbv	100
73) 1,3,5-Trimethylbenzene	11.199	105	720566	8.970	ppbv	100
74) 1,2,4-Trimethylbenzene	11.536	105	784745	8.480	ppbv	100
75) 1,3-Dichlorobenzene	11.604	146	458226	9.028	ppbv	100
76) 1,4-Dichlorobenzene	11.669	146	461371	9.134	ppbv	100
77) 1,2-Dichlorobenzene	11.944	146	441473	8.933	ppbv	100
78) Hexachloro-1,3-Butadiene	13.879	225	416735	8.284	ppbv	100
79) Naphthalene	13.510	128	938470	9.271	ppbv	100
80) Naphthalene,2-methyl-	14.455	142	514394	10.436	ppbv	100
81) 1,2,4-Trichlorobenzene	13.439	180	446420	9.561	ppbv	100

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

Quant Time: Mar 28 01:31:57 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Mar 28 01:31:23 2025
Response via : Initial Calibration

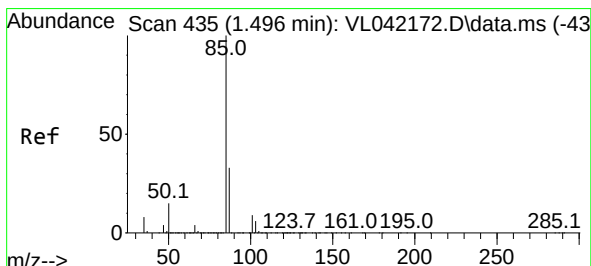
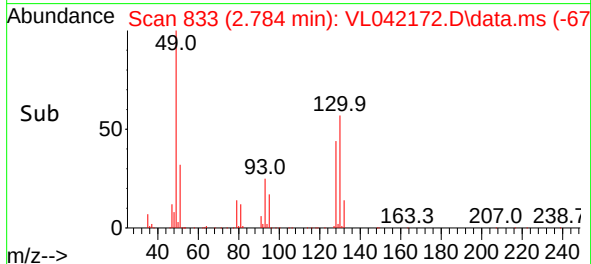
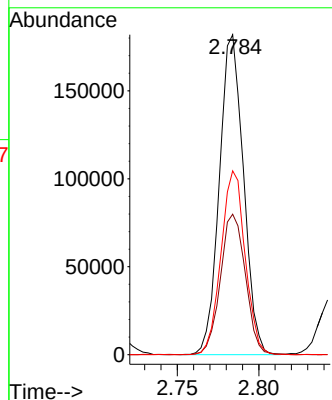
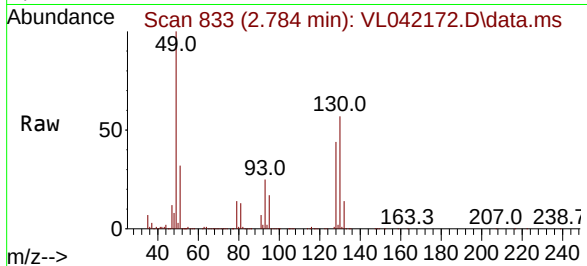




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 81
Delta R.T. -0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

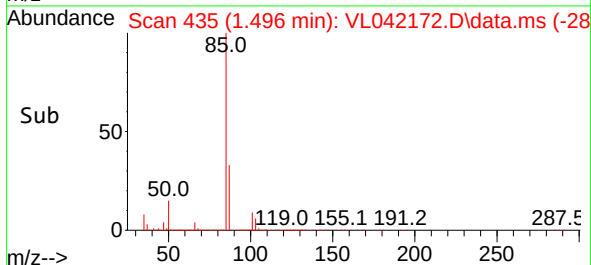
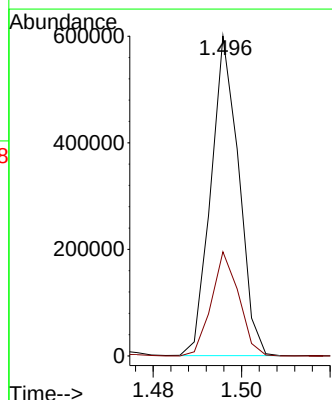
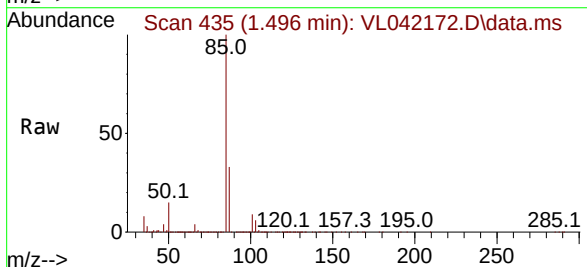
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

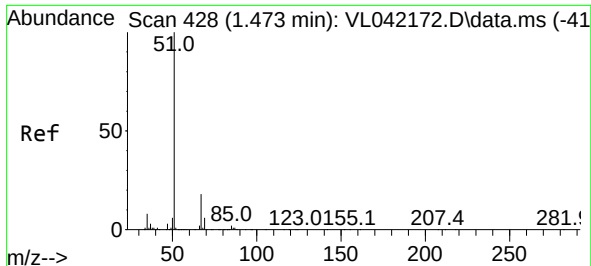
Tgt Ion: 49 Resp: 187002
Ion Ratio Lower Upper
49 100
128 45.7 22.9 68.5
130 57.6 28.8 86.4



#2
Dichlorodifluoromethane
Concen: 9.507 ppbv
RT: 1.496 min Scan# 435
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

Tgt Ion: 85 Resp: 262496
Ion Ratio Lower Upper
85 100
87 32.6 26.1 39.1

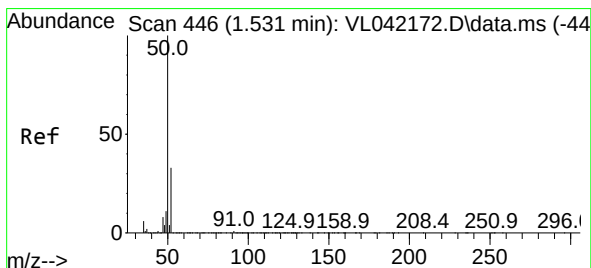
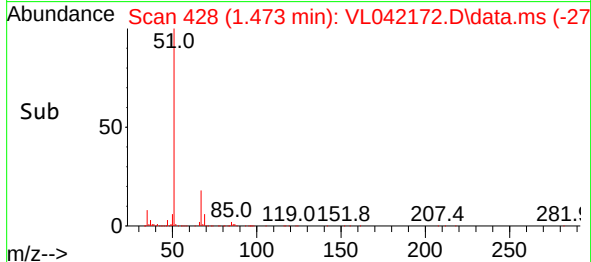
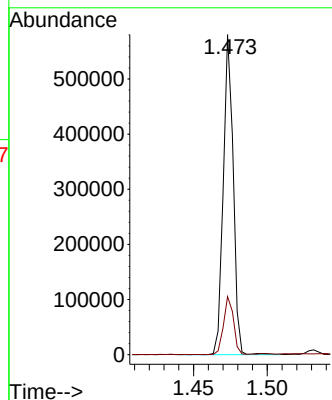
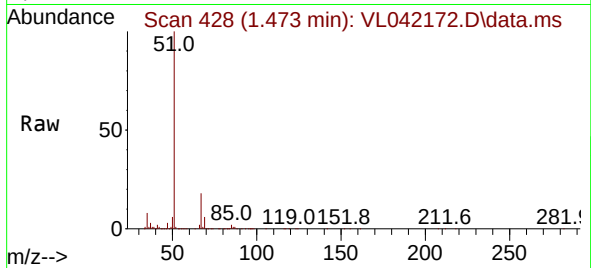




#3
Chlorodifluoromethane
Concen: 9.662 ppbv
RT: 1.473 min Scan# 428
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

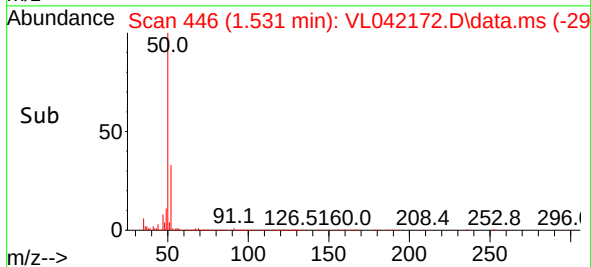
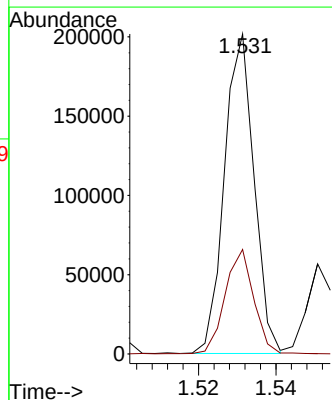
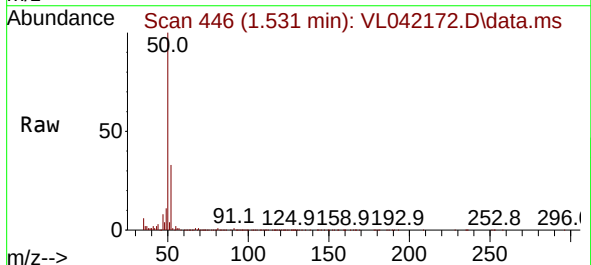
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

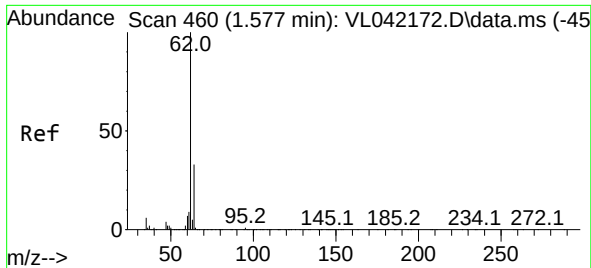
Tgt Ion: 51 Resp: 272522
Ion Ratio Lower Upper
51 100
67 18.8 15.0 22.6



#4
Chloromethane
Concen: 9.491 ppbv
RT: 1.531 min Scan# 446
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

Tgt Ion: 50 Resp: 107099
Ion Ratio Lower Upper
50 100
52 32.6 26.1 39.1

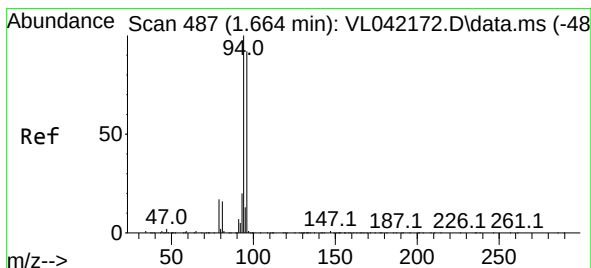
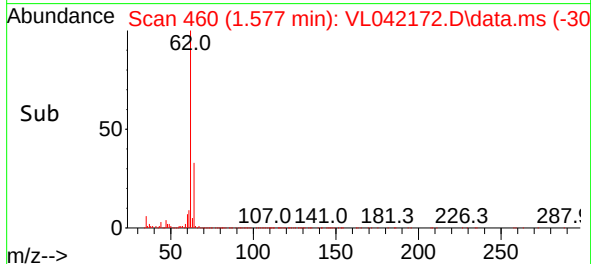
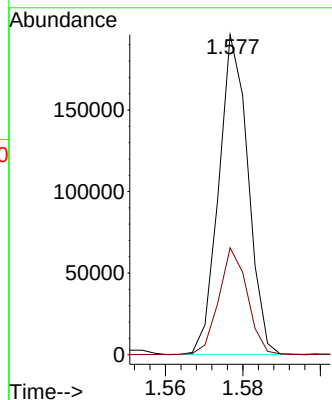
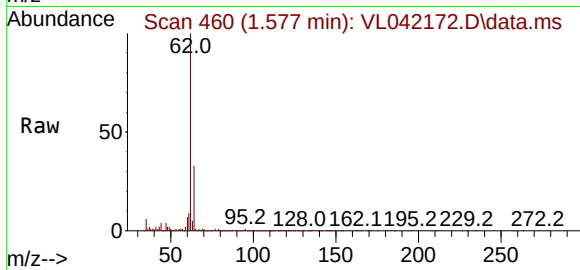




#5
 Vinyl Chloride
 Concen: 8.925 ppbv
 RT: 1.577 min Scan# 460
 Delta R.T. 0.000 min
 Lab File: VL042172.D
 Acq: 27 Mar 2025 08:26

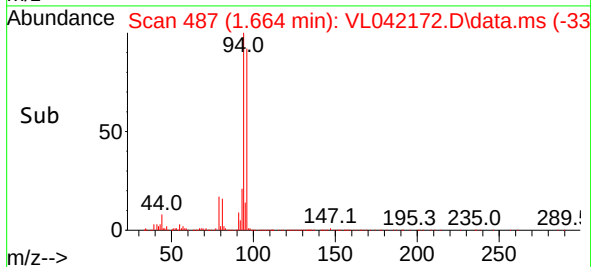
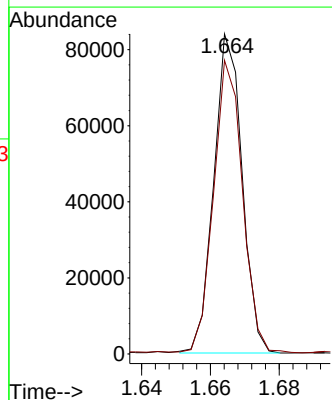
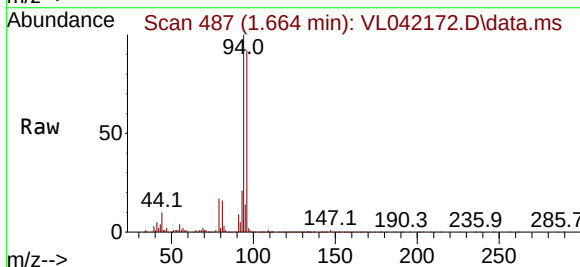
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDICCC010

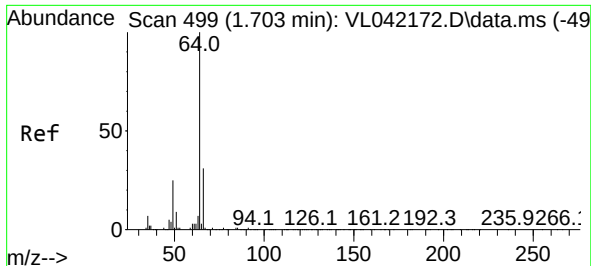
Tgt Ion: 62 Resp: 102699
 Ion Ratio Lower Upper
 62 100
 64 33.3 26.6 40.0



#6
 Bromomethane
 Concen: 9.377 ppbv
 RT: 1.664 min Scan# 487
 Delta R.T. 0.000 min
 Lab File: VL042172.D
 Acq: 27 Mar 2025 08:26

Tgt Ion: 94 Resp: 47950
 Ion Ratio Lower Upper
 94 100
 96 91.4 73.1 109.7

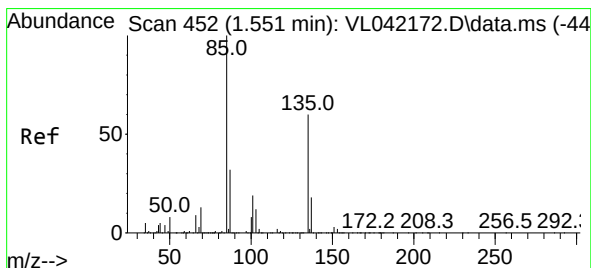
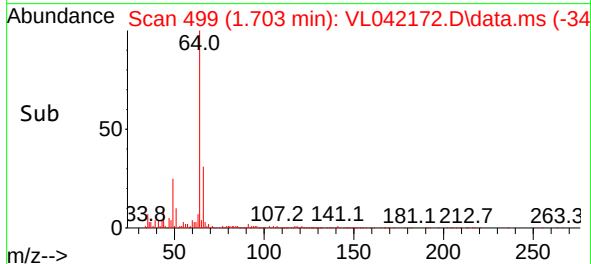
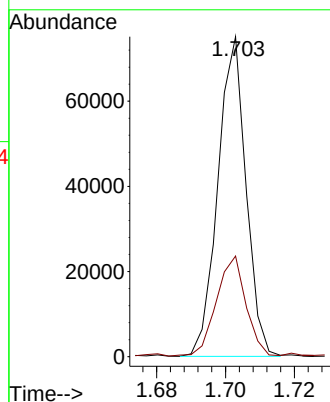
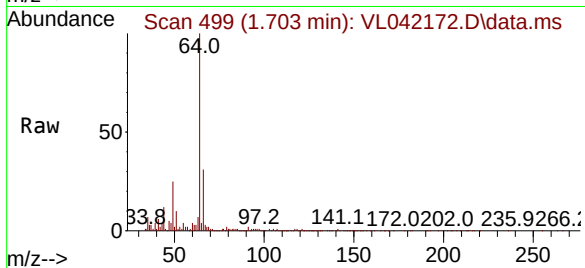




#7
Chloroethane
Concen: 9.387 ppbv
RT: 1.703 min Scan# 499
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

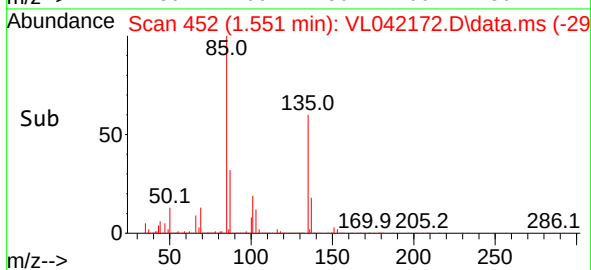
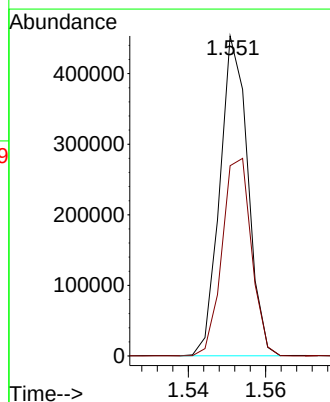
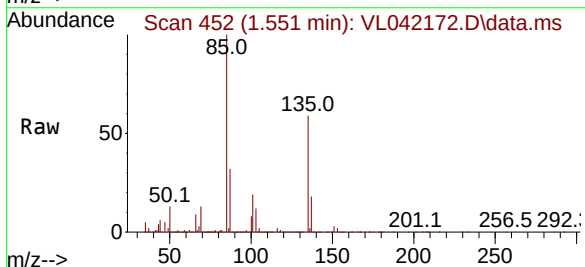
Instrument :
MSVOA_1
ClientSampleId :
VSTDICCC010

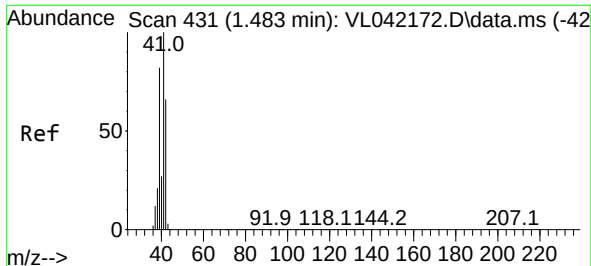
Tgt Ion: 64 Resp: 42516
Ion Ratio Lower Upper
64 100
66 31.5 25.2 37.8



#8
Dichlorotetrafluoroethane
Concen: 9.656 ppbv
RT: 1.551 min Scan# 452
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

Tgt Ion: 85 Resp: 227041
Ion Ratio Lower Upper
85 100
135 65.5 52.4 78.6





#9

Propene

Concen: 9.709 ppbv

RT: 1.483 min Scan# 41

Delta R.T. 0.000 min

Lab File: VL042172.D

Acq: 27 Mar 2025 08:26

Instrument :

MSVOA_1

ClientSampleId :

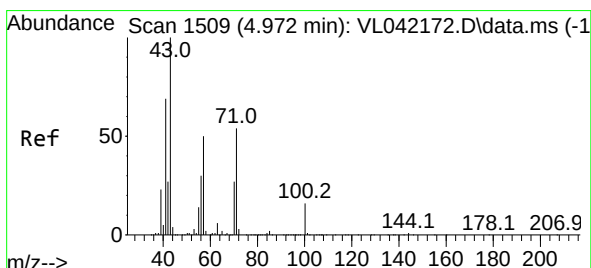
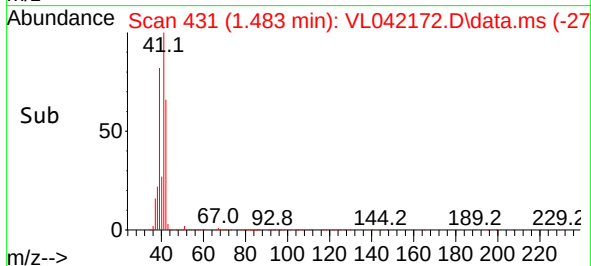
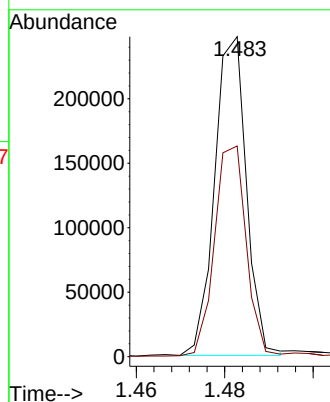
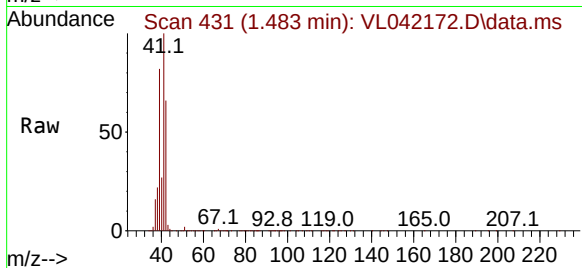
VSTDICCC010

Tgt Ion: 41 Resp: 123386

Ion Ratio Lower Upper

41 100

42 69.3 55.4 83.2



#10

Heptane

Concen: 9.744 ppbv

RT: 4.972 min Scan# 1509

Delta R.T. 0.000 min

Lab File: VL042172.D

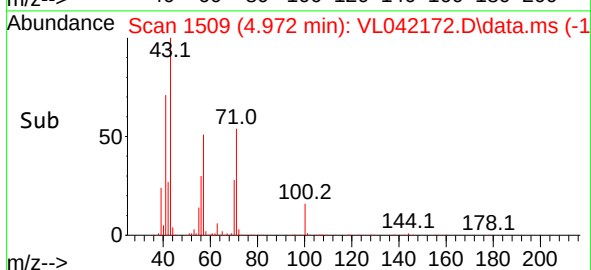
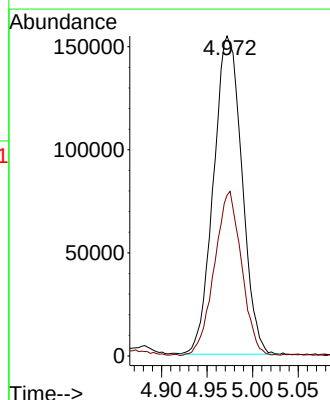
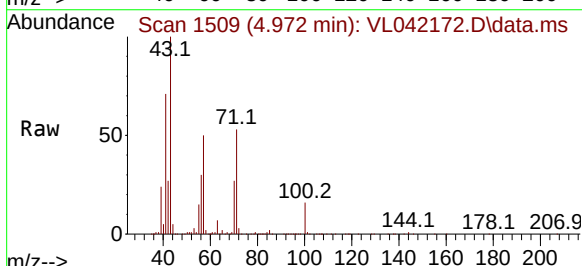
Acq: 27 Mar 2025 08:26

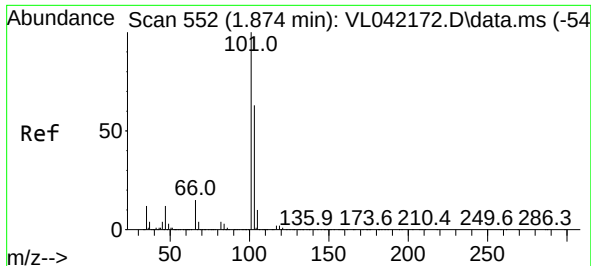
Tgt Ion: 43 Resp: 335086

Ion Ratio Lower Upper

43 100

57 49.3 39.4 59.2

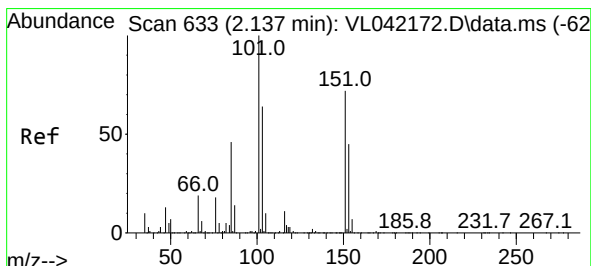
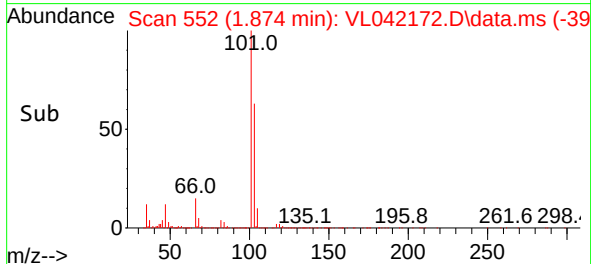
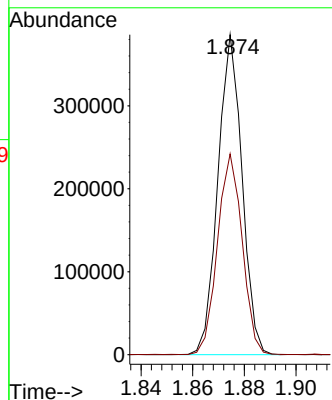
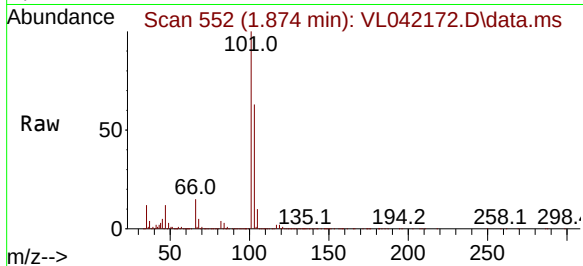




#11
 Trichlorofluoromethane
 Concen: 9.318 ppbv
 RT: 1.874 min Scan# 511
 Delta R.T. 0.000 min
 Lab File: VL042172.D
 Acq: 27 Mar 2025 08:26

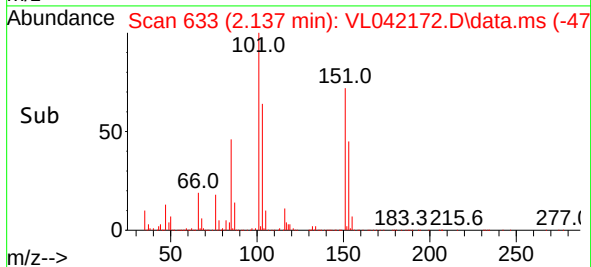
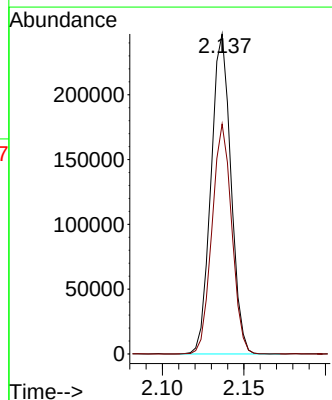
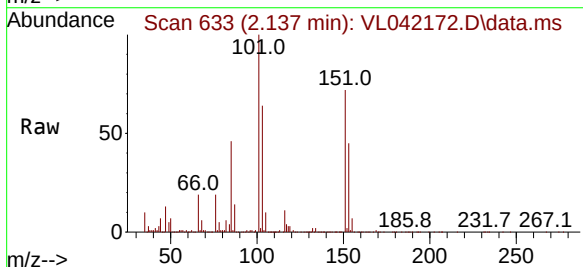
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDICCC010

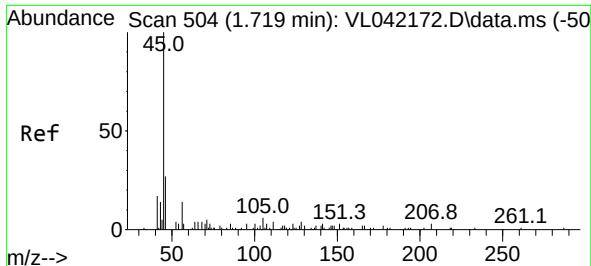
Tgt Ion:101 Resp: 250349
 Ion Ratio Lower Upper
 101 100
 103 62.7 50.2 75.2



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 9.481 ppbv
 RT: 2.137 min Scan# 633
 Delta R.T. 0.000 min
 Lab File: VL042172.D
 Acq: 27 Mar 2025 08:26

Tgt Ion:101 Resp: 209365
 Ion Ratio Lower Upper
 101 100
 151 71.4 57.1 85.7

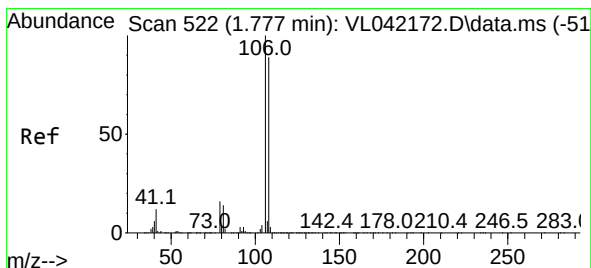
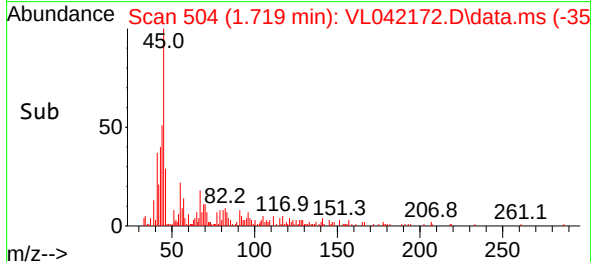
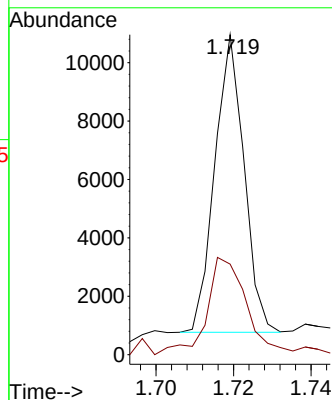
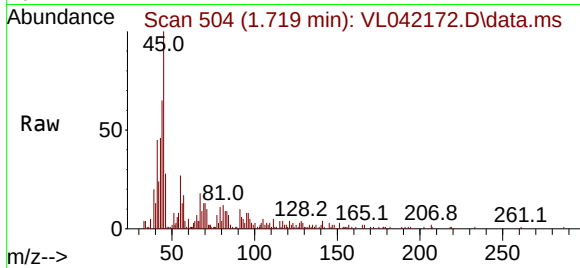




#13
Ethanol
Concen: 5.364 ppbv
RT: 1.719 min Scan# 504
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

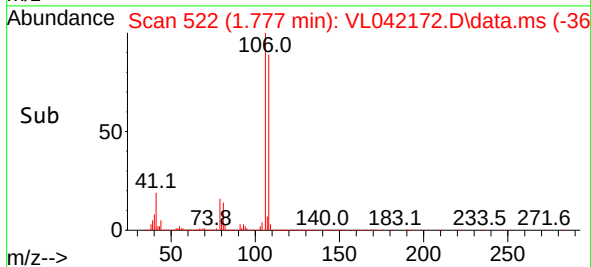
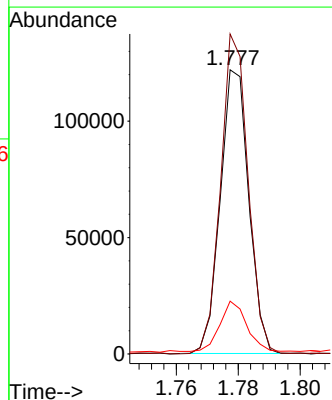
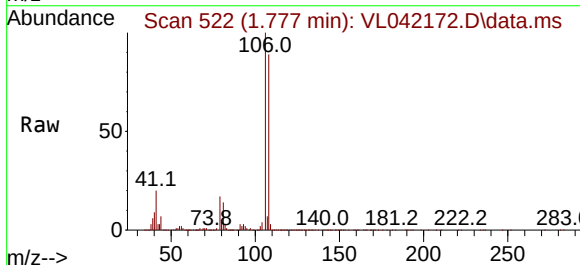
Instrument :
MSVOA_1
ClientSampleId :
VSTDICCC010

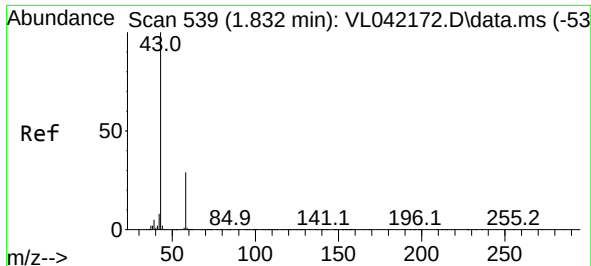
Tgt Ion: 45 Resp: 5338
Ion Ratio Lower Upper
45 100
46 50.5 20.2 80.8



#14
Bromoethene
Concen: 9.220 ppbv
RT: 1.777 min Scan# 522
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

Tgt Ion: 108 Resp: 77999
Ion Ratio Lower Upper
108 100
106 108.5 86.8 130.2
79 18.8 15.0 22.6





#15

Acetone

Concen: 7.955 ppbv

RT: 1.832 min Scan# 51

Delta R.T. 0.000 min

Lab File: VL042172.D

Acq: 27 Mar 2025 08:26

Instrument :

MSVOA_1

ClientSampleId :

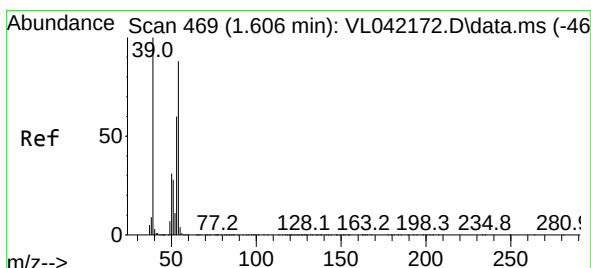
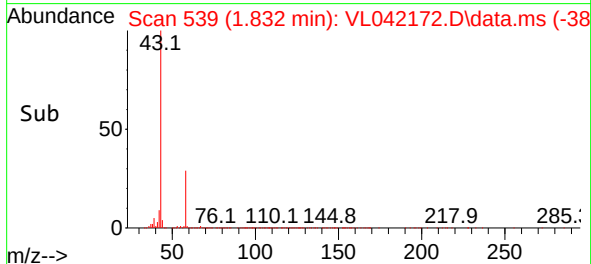
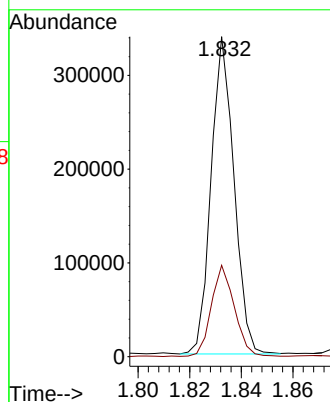
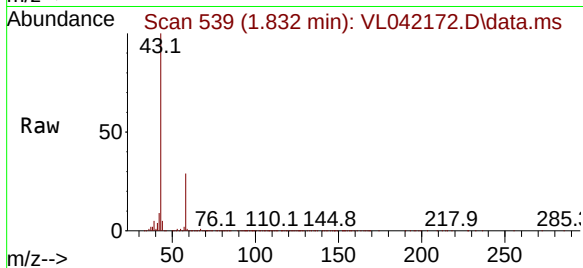
VSTDICCC010

Tgt Ion: 43 Resp: 208061

Ion Ratio Lower Upper

43 100

58 29.0 23.2 34.8



#16

1,3-Butadiene

Concen: 9.105 ppbv

RT: 1.606 min Scan# 469

Delta R.T. 0.000 min

Lab File: VL042172.D

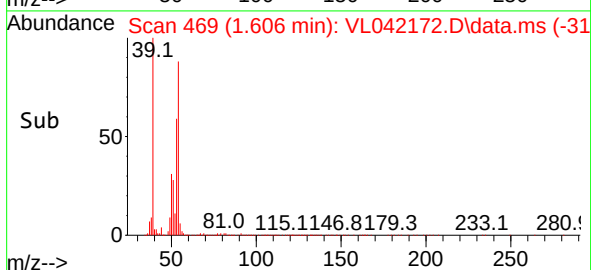
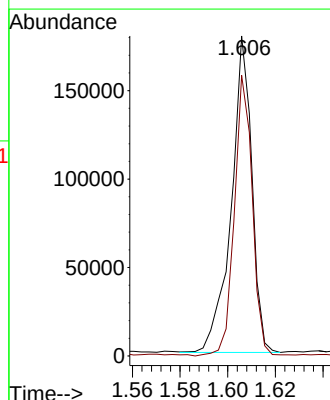
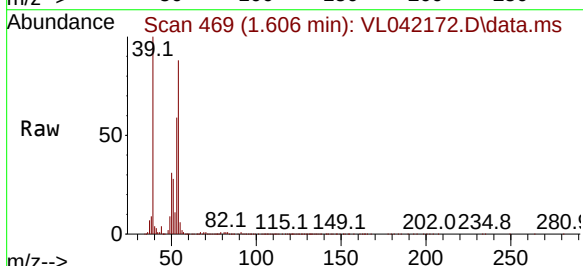
Acq: 27 Mar 2025 08:26

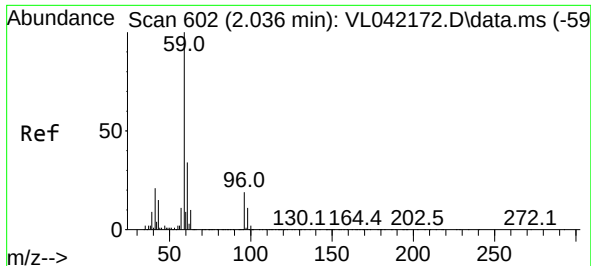
Tgt Ion: 39 Resp: 107104

Ion Ratio Lower Upper

39 100

54 75.9 60.7 91.1





#17

tert-Butyl alcohol

Concen: 9.290 ppbv

RT: 2.036 min Scan# 602

Delta R.T. 0.000 min

Lab File: VL042172.D

Acq: 27 Mar 2025 08:26

Instrument :

MSVOA_L

ClientSampleId :

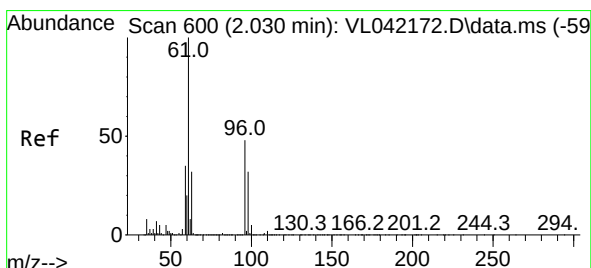
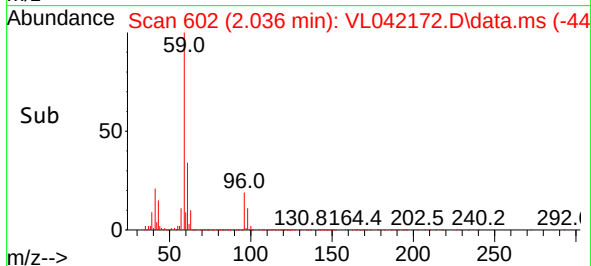
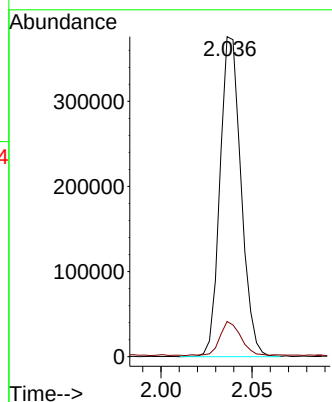
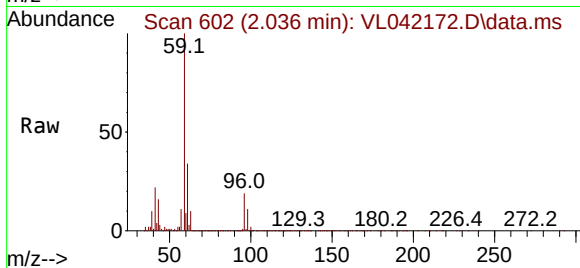
VSTDICCC010

Tgt Ion: 59 Resp: 302616

Ion Ratio Lower Upper

59 100

57 11.1 8.9 13.3



#18

1,1-Dichloroethene

Concen: 9.128 ppbv

RT: 2.030 min Scan# 600

Delta R.T. 0.000 min

Lab File: VL042172.D

Acq: 27 Mar 2025 08:26

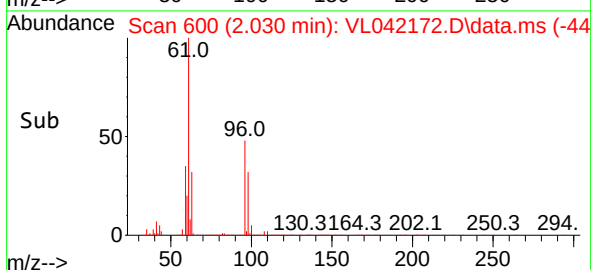
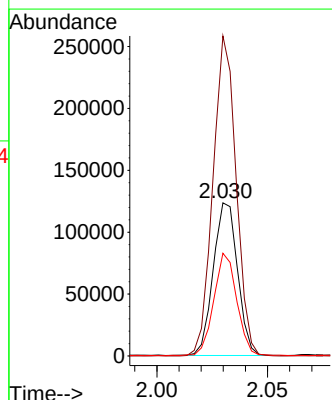
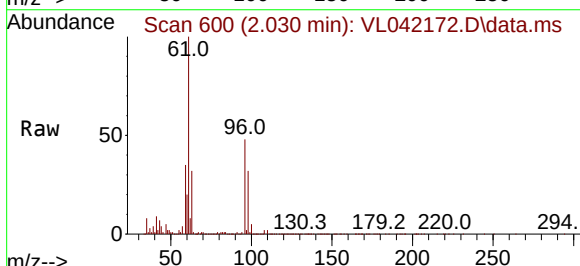
Tgt Ion: 96 Resp: 94236

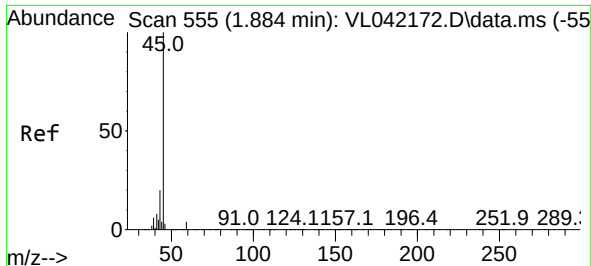
Ion Ratio Lower Upper

96 100

61 209.5 167.6 251.4

98 66.9 53.5 80.3

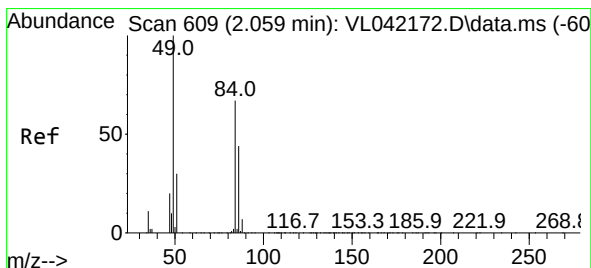
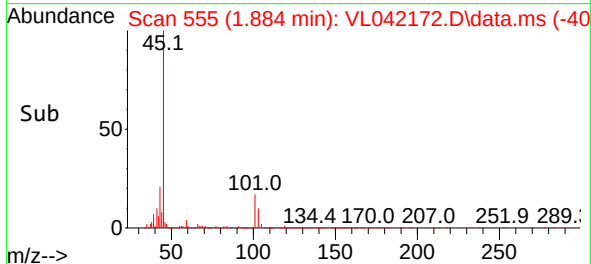
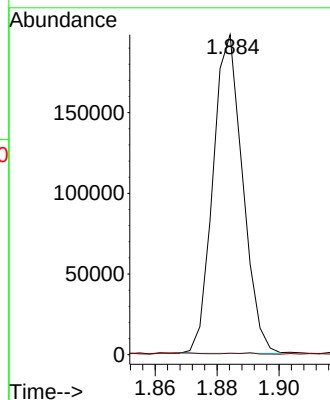
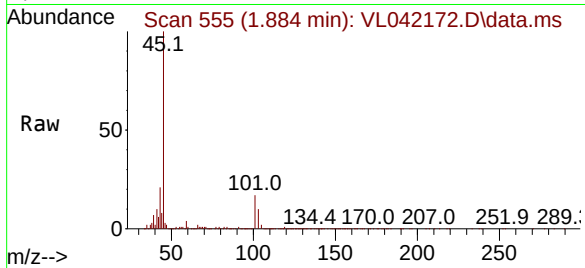




#19
Isopropyl Alcohol
Concen: 8.902 ppbv
RT: 1.884 min Scan# 555
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

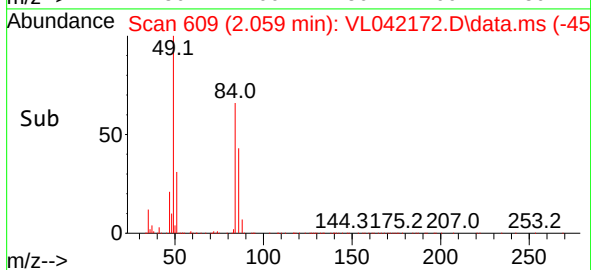
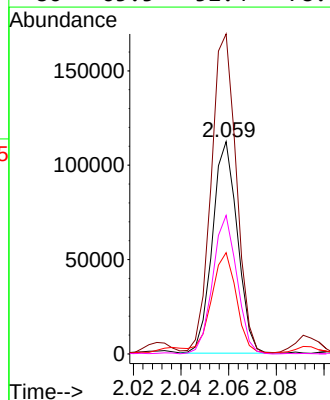
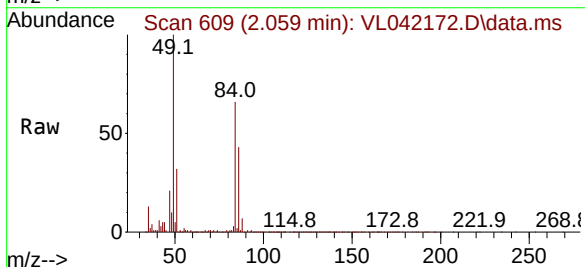
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

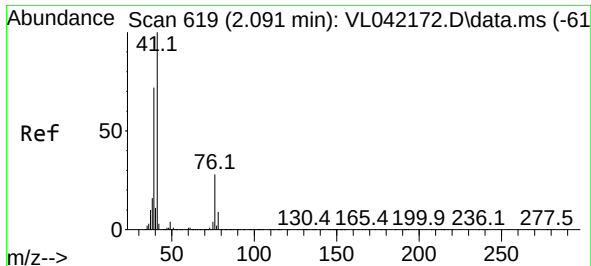
Tgt Ion: 45 Resp: 131359
Ion Ratio Lower Upper
45 100
58 46.1 36.9 55.3



#20
Methylene Chloride
Concen: 8.401 ppbv
RT: 2.059 min Scan# 609
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

Tgt Ion: 84 Resp: 81828
Ion Ratio Lower Upper
84 100
49 150.3 120.2 180.4
51 46.7 37.4 56.0
86 65.5 52.4 78.6

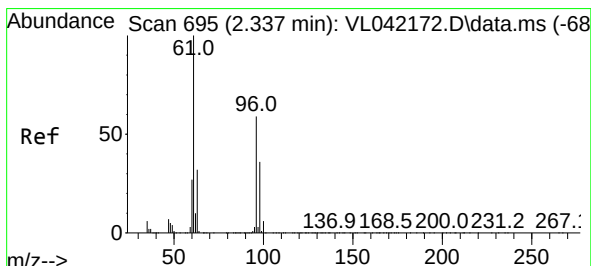
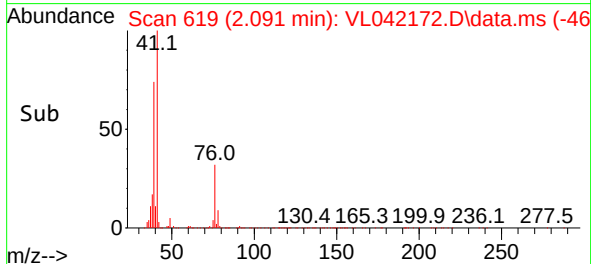
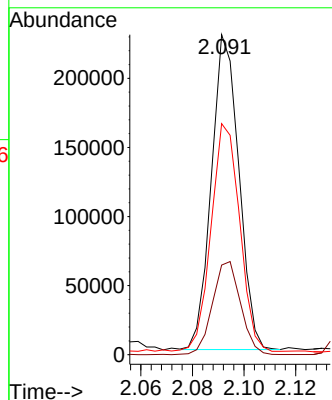
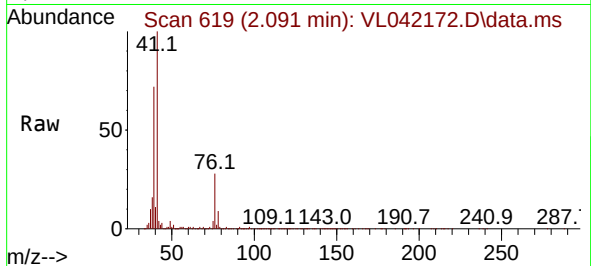




#21
 Allyl Chloride
 Concen: 9.141 ppbv
 RT: 2.091 min Scan# 619
 Delta R.T. 0.000 min
 Lab File: VL042172.D
 Acq: 27 Mar 2025 08:26

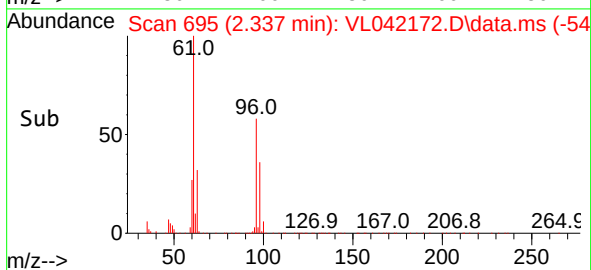
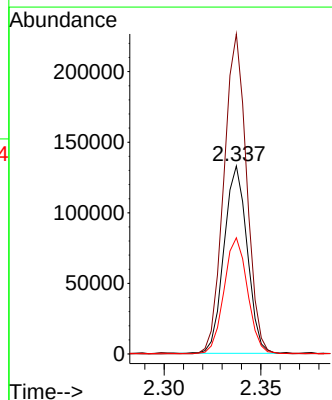
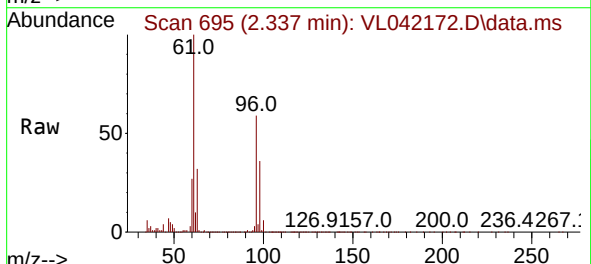
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDICCC010

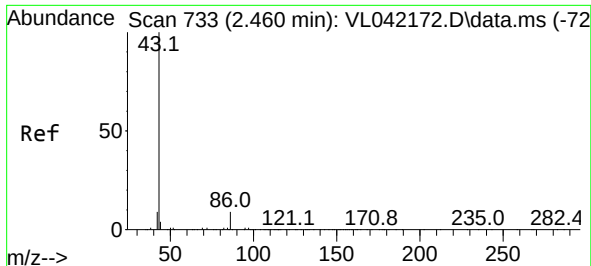
Tgt Ion: 41 Resp: 168602
 Ion Ratio Lower Upper
 41 100
 76 30.1 24.1 36.1
 39 76.4 61.1 91.7



#22
 trans-1,2-Dichloroethene
 Concen: 9.149 ppbv
 RT: 2.337 min Scan# 695
 Delta R.T. 0.000 min
 Lab File: VL042172.D
 Acq: 27 Mar 2025 08:26

Tgt Ion: 96 Resp: 110371
 Ion Ratio Lower Upper
 96 100
 61 170.7 136.6 204.8
 98 61.8 49.4 74.2

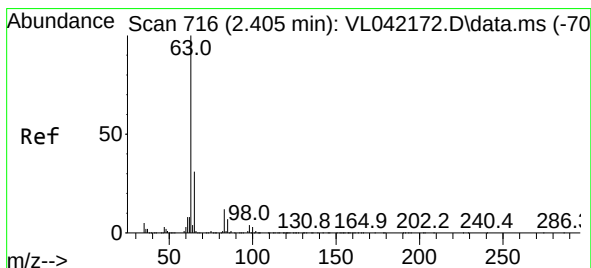
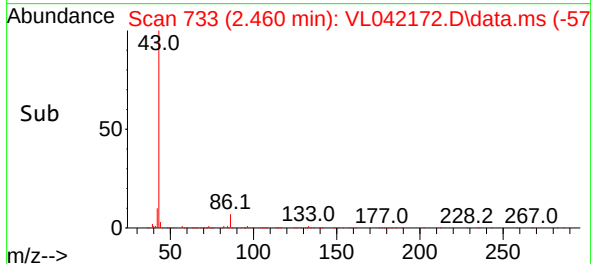
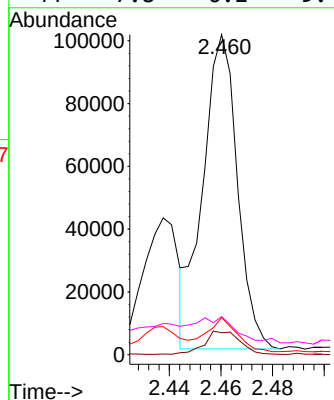
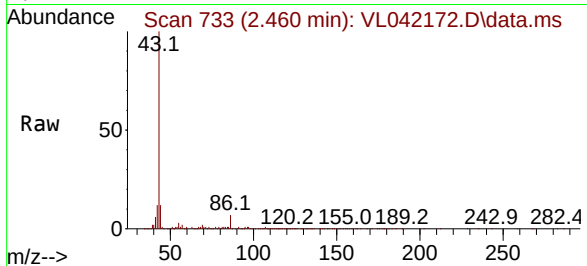




#23
 Vinyl Acetate
 Concen: 8.563 ppbv
 RT: 2.460 min Scan# 716
 Delta R.T. 0.000 min
 Lab File: VL042172.D
 Acq: 27 Mar 2025 08:26

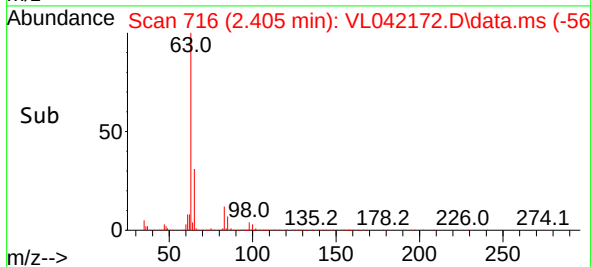
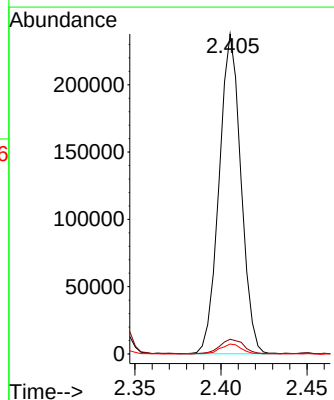
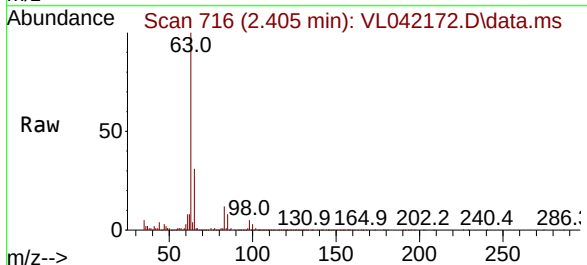
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDICCC010

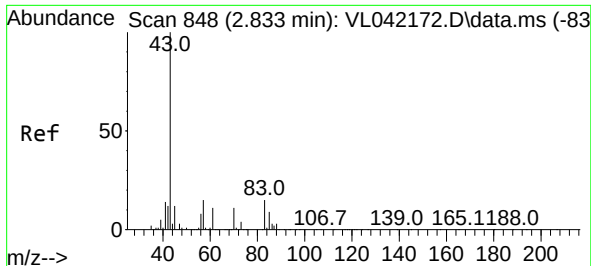
Tgt Ion:	43	Resp:	93080
Ion	Ratio	Lower	Upper
43	100		
86	6.9	5.5	8.3
42	10.8	8.6	13.0
44	7.8	6.2	9.4



#24
 1,1-Dichloroethane
 Concen: 9.484 ppbv
 RT: 2.405 min Scan# 716
 Delta R.T. 0.000 min
 Lab File: VL042172.D
 Acq: 27 Mar 2025 08:26

Tgt Ion:	63	Resp:	209753
Ion	Ratio	Lower	Upper
63	100		
98	4.5	2.3	6.8
100	3.1	1.6	4.7

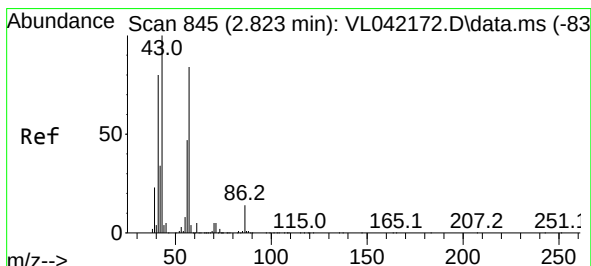
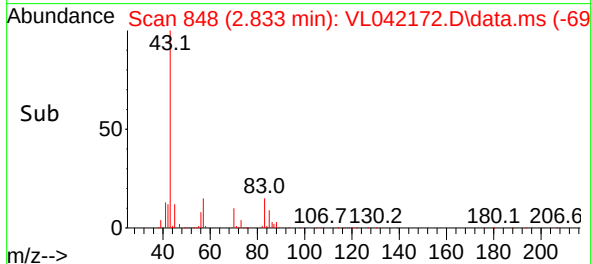
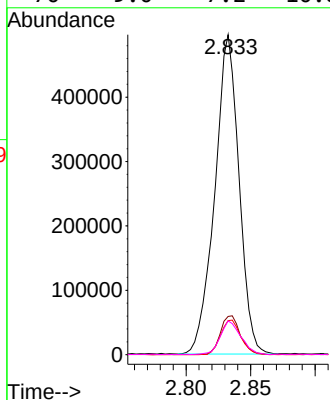
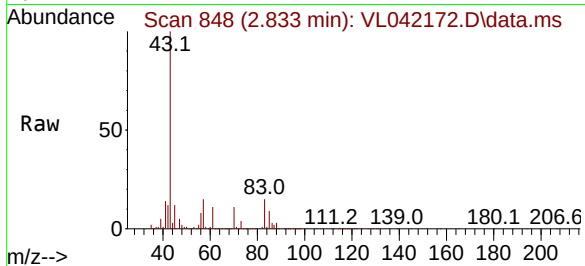




#25
Ethyl Acetate
Concen: 9.524 ppbv
RT: 2.833 min Scan# 848
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

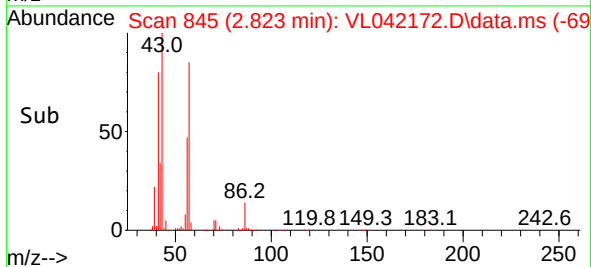
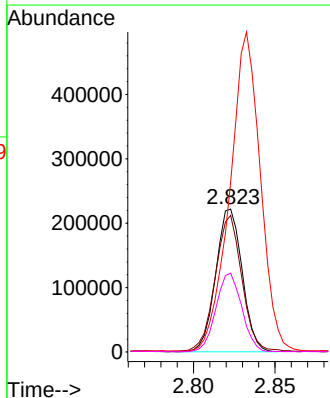
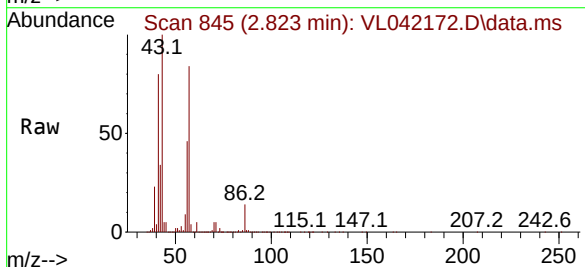
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

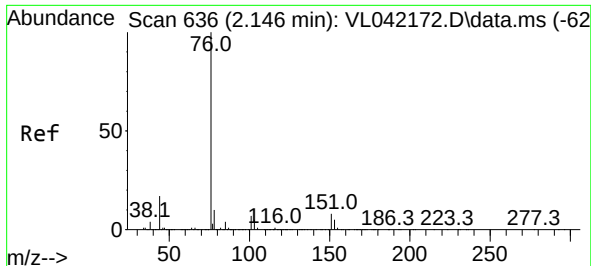
Tgt Ion: 43	Resp: 646501
Ion Ratio	Lower Upper
43 100	
45 10.2	8.2 12.2
61 9.1	7.3 10.9
70 9.0	7.2 10.8



#26
Hexane
Concen: 9.510 ppbv
RT: 2.823 min Scan# 845
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

Tgt	Ion: 57	Resp:	249331
	Ratio	Lower	Upper
57	100		
41	95.7	76.6	114.8
43	259.8	207.8	311.8
56	54.5	43.6	65.4

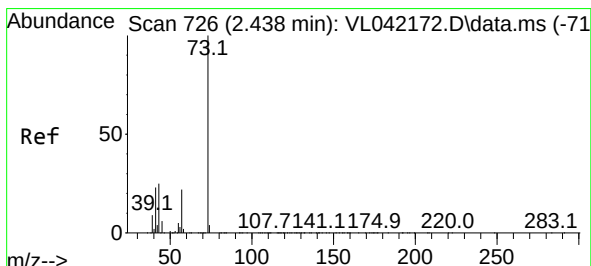
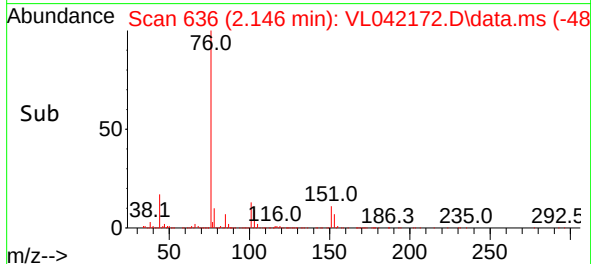
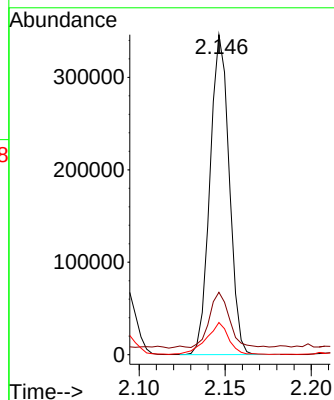
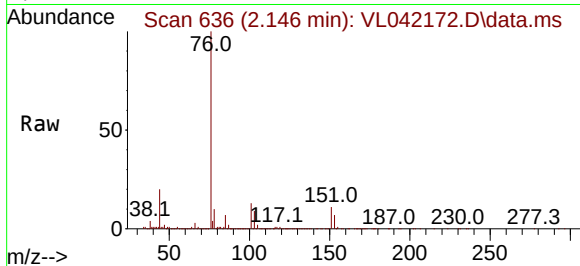




#27
Carbon Disulfide
Concen: 9.550 ppbv
RT: 2.146 min Scan# 636
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

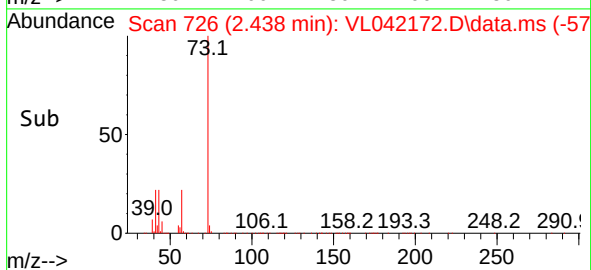
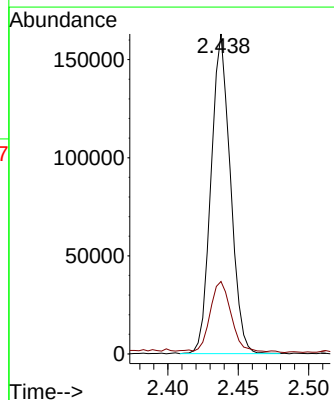
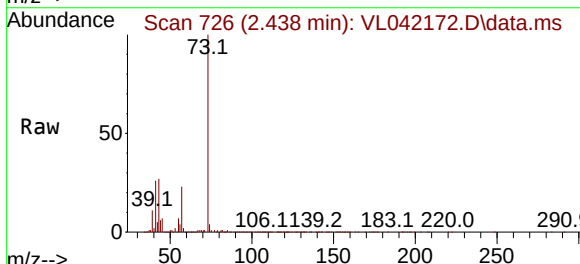
Instrument :
MSVOA_1
ClientSampleId :
VSTDICCC010

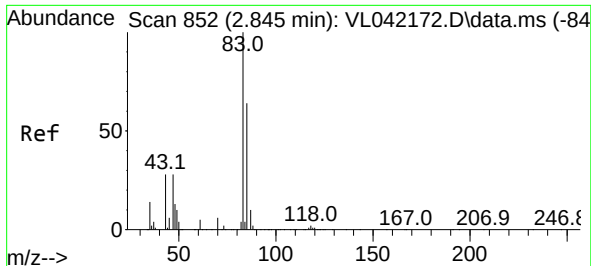
Tgt Ion: 76 Resp: 268507
Ion Ratio Lower Upper
76 100
44 18.4 14.7 22.1
78 11.6 9.3 13.9



#28
Methyl tert-Butyl Ether
Concen: 9.520 ppbv
RT: 2.438 min Scan# 726
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

Tgt Ion: 73 Resp: 155398
Ion Ratio Lower Upper
73 100
57 25.6 20.5 30.7





#29

Chloroform

Concen: 9.415 ppbv

RT: 2.845 min Scan# 852

Delta R.T. 0.000 min

Lab File: VL042172.D

Acq: 27 Mar 2025 08:26

Instrument :

MSVOA_L

ClientSampleId :

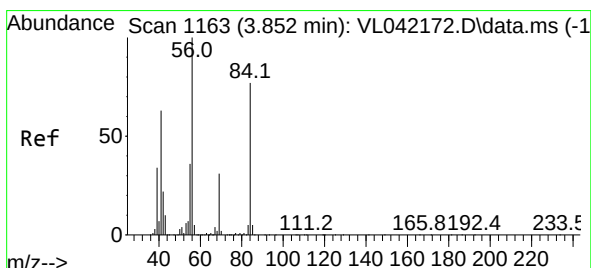
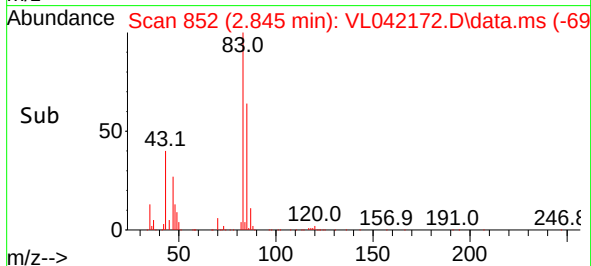
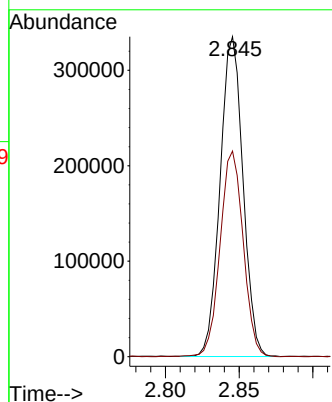
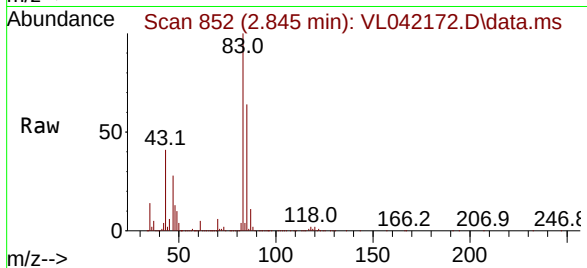
VSTDICCC010

Tgt Ion: 83 Resp: 361264

Ion Ratio Lower Upper

83 100

85 64.3 51.4 77.2



#30

Cyclohexane

Concen: 9.537 ppbv

RT: 3.852 min Scan# 1163

Delta R.T. 0.000 min

Lab File: VL042172.D

Acq: 27 Mar 2025 08:26

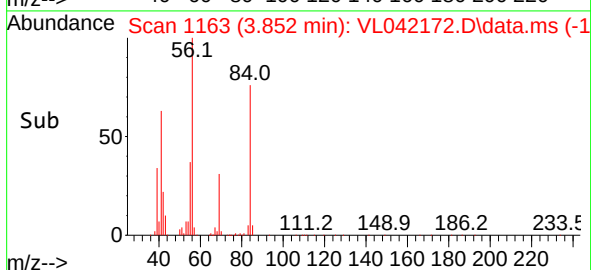
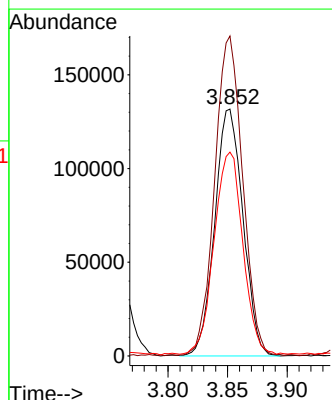
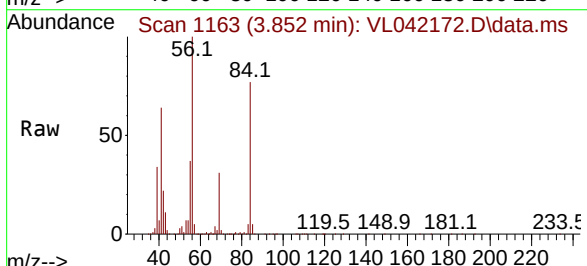
Tgt Ion: 84 Resp: 217215

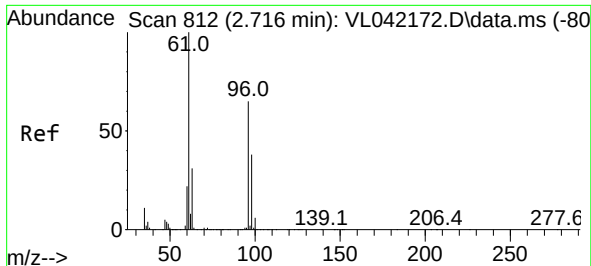
Ion Ratio Lower Upper

84 100

56 128.5 102.8 154.2

41 83.1 66.5 99.7

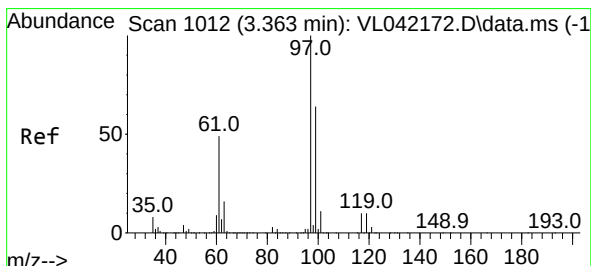
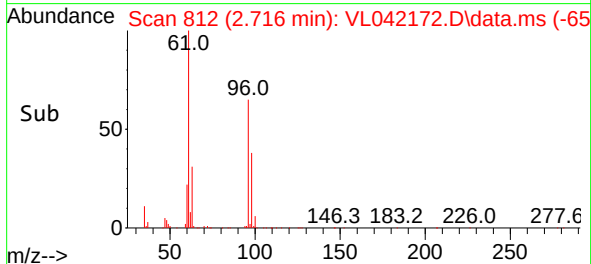
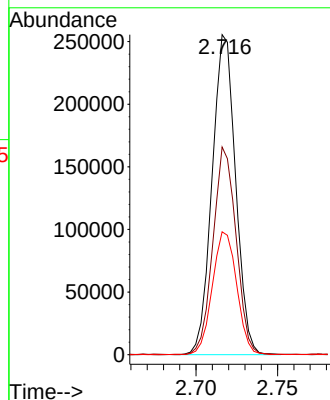
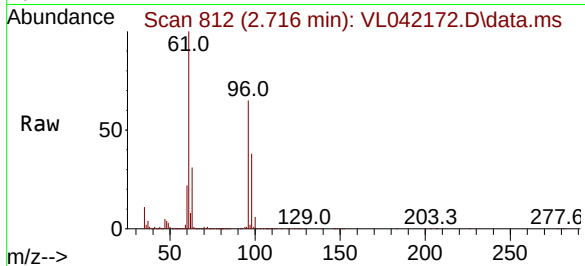




#31
 cis-1,2-Dichloroethene
 Concen: 9.634 ppbv
 RT: 2.716 min Scan# 812
 Delta R.T. 0.000 min
 Lab File: VL042172.D
 Acq: 27 Mar 2025 08:26

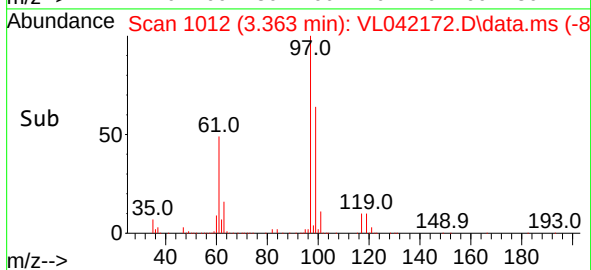
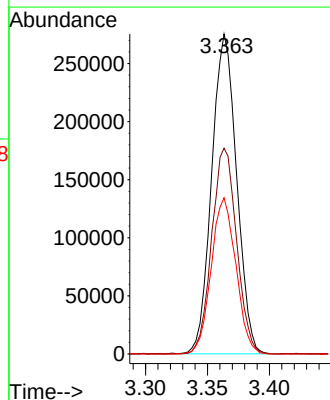
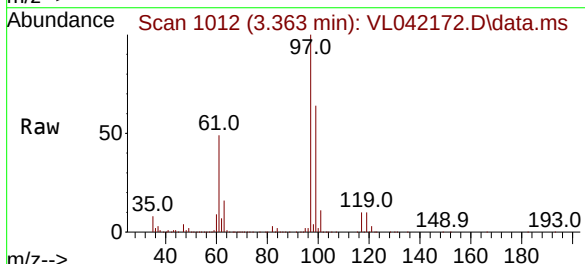
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

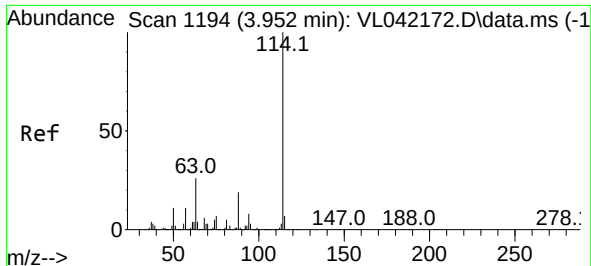
Tgt Ion: 61 Resp: 256425
 Ion Ratio Lower Upper
 61 100
 96 64.8 51.8 77.8
 98 38.3 30.6 46.0



#32
 1,1,1-Trichloroethane
 Concen: 8.784 ppbv
 RT: 3.363 min Scan# 1012
 Delta R.T. 0.000 min
 Lab File: VL042172.D
 Acq: 27 Mar 2025 08:26

Tgt Ion: 97 Resp: 385628
 Ion Ratio Lower Upper
 97 100
 99 64.4 51.5 77.3
 61 48.4 38.7 58.1





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.952 min Scan# 1194

Delta R.T. 0.000 min

Lab File: VL042172.D

Acq: 27 Mar 2025 08:26

Instrument :

MSVOA_1

ClientSampleId :

VSTDICCC010

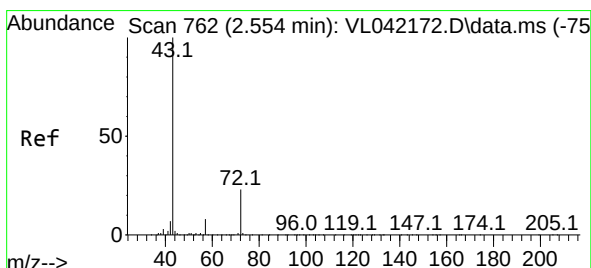
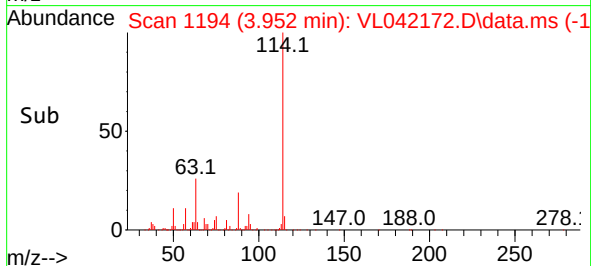
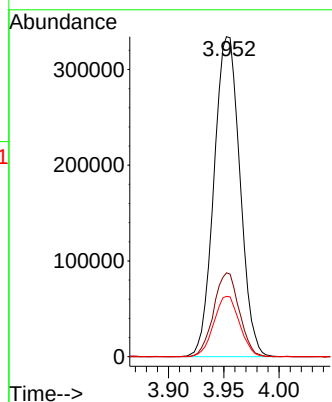
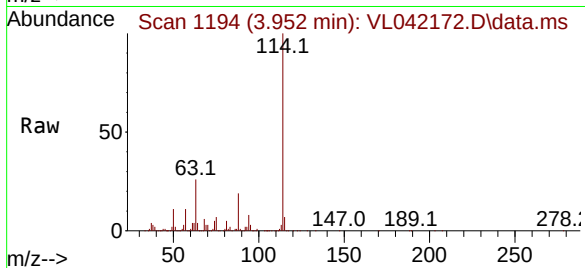
Tgt Ion:114 Resp: 545068

Ion Ratio Lower Upper

114 100

63 25.9 20.7 31.1

88 18.7 15.0 22.4



#34

2-Butanone

Concen: 9.203 ppbv

RT: 2.554 min Scan# 762

Delta R.T. 0.000 min

Lab File: VL042172.D

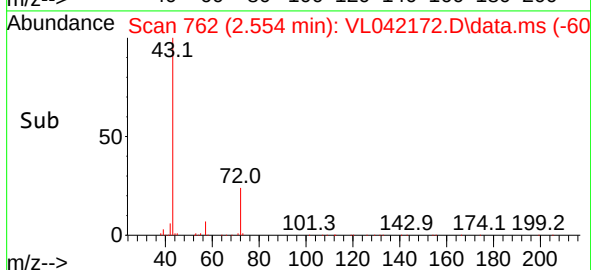
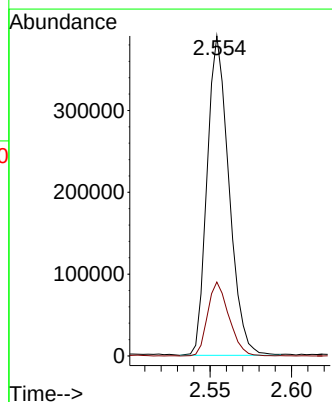
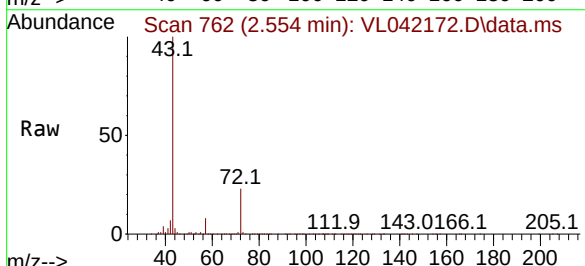
Acq: 27 Mar 2025 08:26

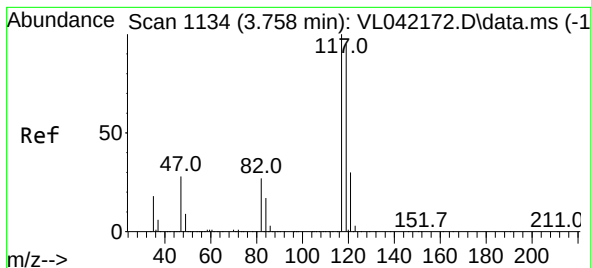
Tgt Ion: 43 Resp: 363735

Ion Ratio Lower Upper

43 100

72 22.7 18.2 27.2





#35

Carbon Tetrachloride

Concen: 9.129 ppbv

RT: 3.758 min Scan# 1134

Delta R.T. 0.000 min

Lab File: VL042172.D

Acq: 27 Mar 2025 08:26

Instrument :

MSVOA_1

ClientSampleId :

VSTDICCC010

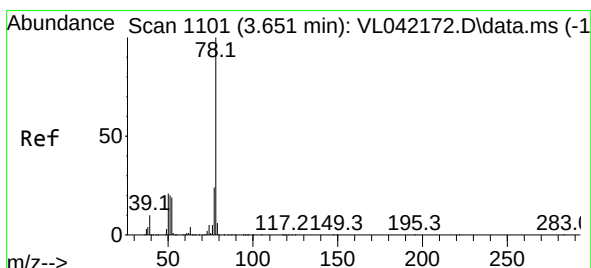
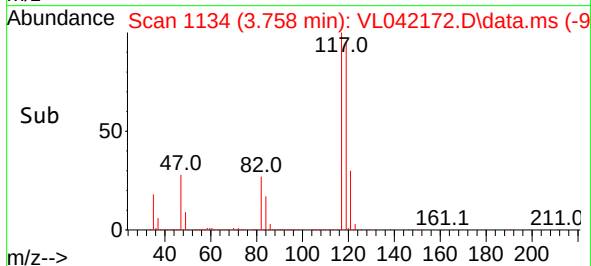
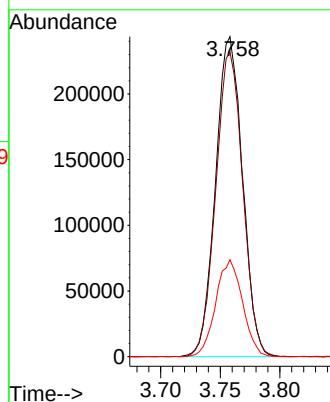
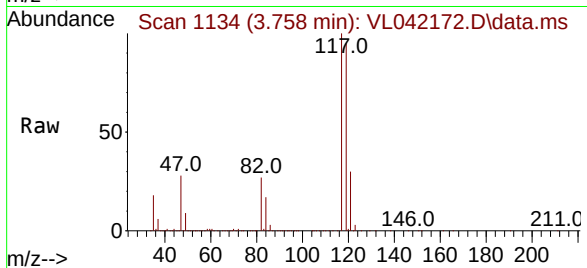
Tgt Ion:117 Resp: 382925

Ion Ratio Lower Upper

117 100

119 95.2 76.2 114.2

121 30.3 24.2 36.4



#36

Benzene

Concen: 9.417 ppbv

RT: 3.651 min Scan# 1101

Delta R.T. 0.000 min

Lab File: VL042172.D

Acq: 27 Mar 2025 08:26

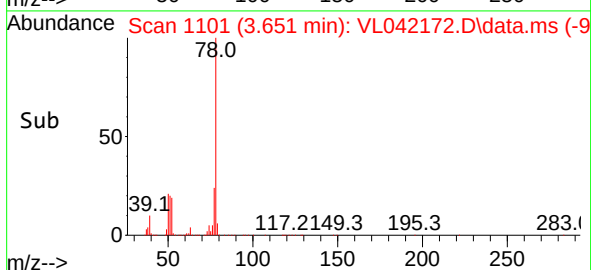
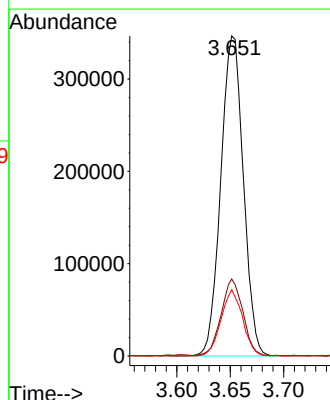
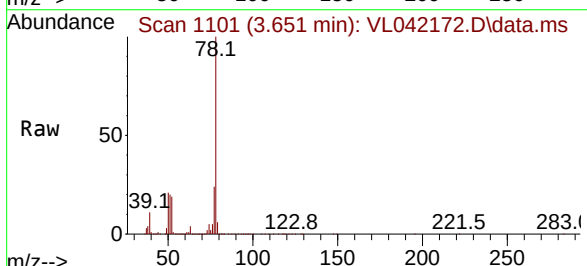
Tgt Ion: 78 Resp: 508860

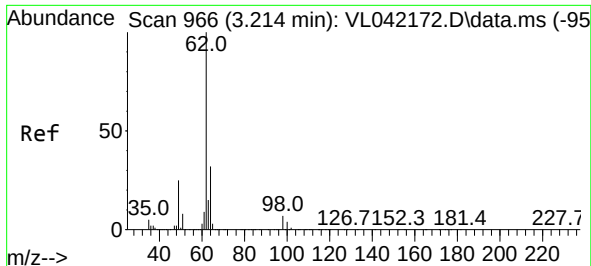
Ion Ratio Lower Upper

78 100

77 23.9 19.1 28.7

50 20.7 16.6 24.8

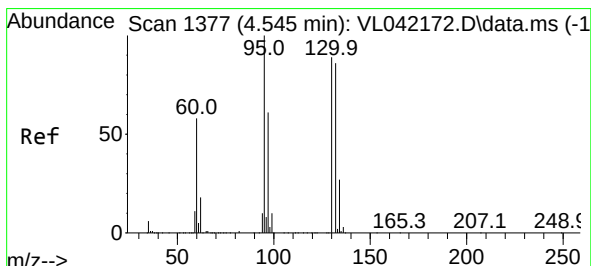
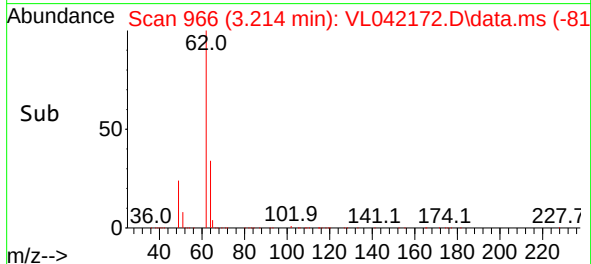
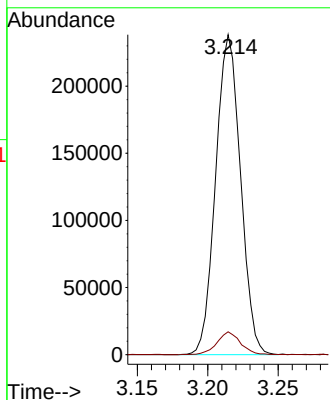
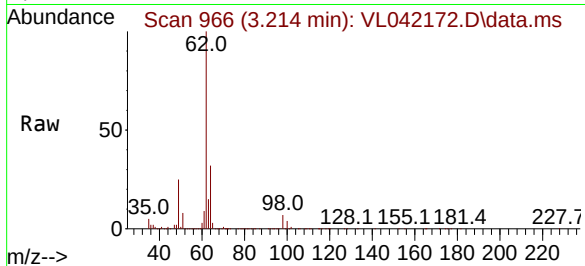




#37
1,2-Dichloroethane
Concen: 9.469 ppbv
RT: 3.214 min Scan# 966
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

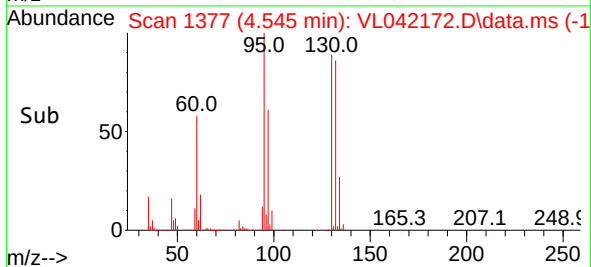
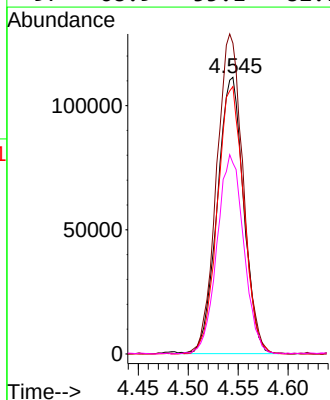
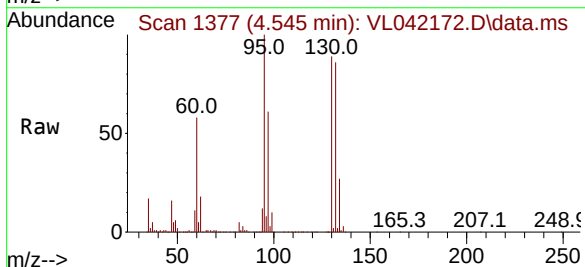
Instrument :
MSVOA_1
ClientSampleId :
VSTDICCC010

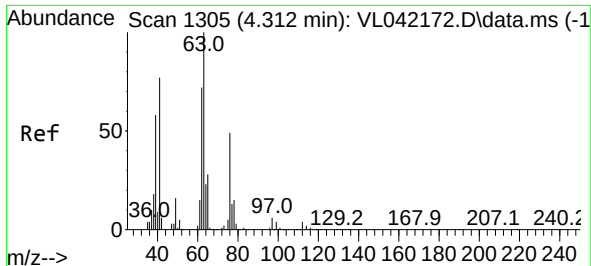
Tgt Ion: 62 Resp: 292937
Ion Ratio Lower Upper
62 100
98 6.8 5.4 8.2



#38
Trichloroethene
Concen: 9.045 ppbv
RT: 4.545 min Scan# 1377
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

Tgt Ion:130 Resp: 204027
Ion Ratio Lower Upper
130 100
95 112.3 89.8 134.8
132 96.8 77.4 116.2
97 68.9 55.1 82.7





#39

1,2-Dichloropropane

Concen: 9.321 ppbv

RT: 4.312 min Scan# 1305

Delta R.T. 0.000 min

Lab File: VL042172.D

Acq: 27 Mar 2025 08:26

Instrument :

MSVOA_1

ClientSampleId :

VSTDICCC010

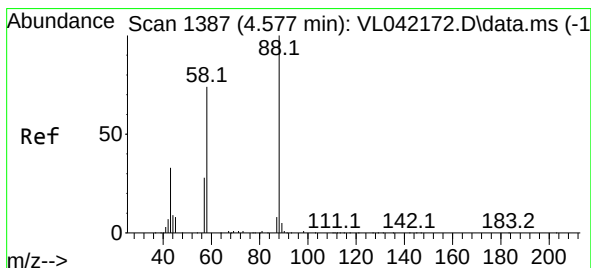
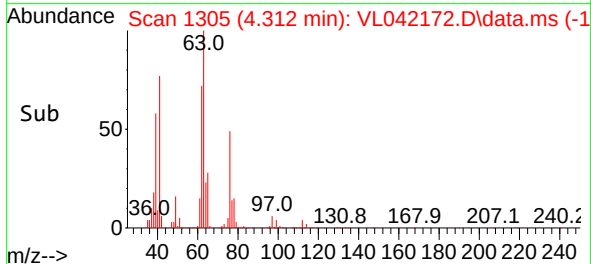
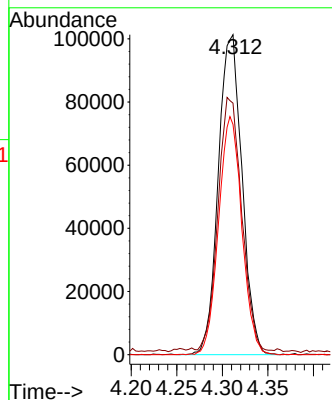
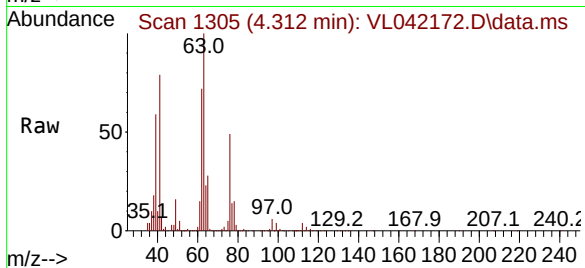
Tgt Ion: 63 Resp: 183439

Ion Ratio Lower Upper

63 100

41 77.1 61.7 92.5

62 72.0 57.6 86.4



#40

1,4-Dioxane

Concen: 9.042 ppbv

RT: 4.577 min Scan# 1387

Delta R.T. 0.000 min

Lab File: VL042172.D

Acq: 27 Mar 2025 08:26

Tgt Ion: 88 Resp: 92327

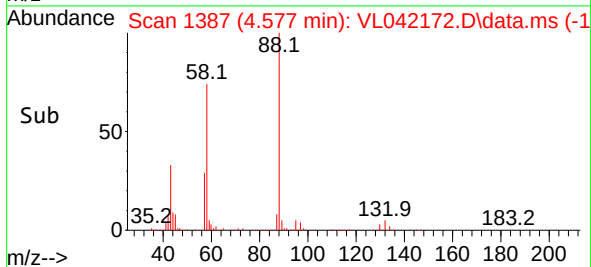
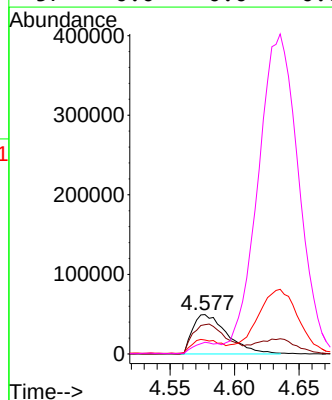
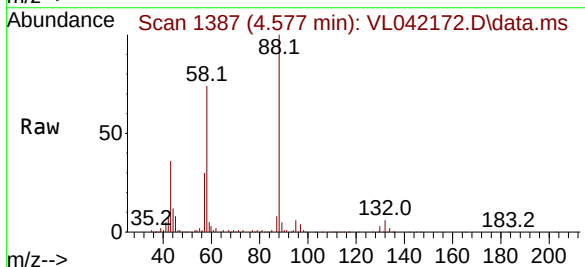
Ion Ratio Lower Upper

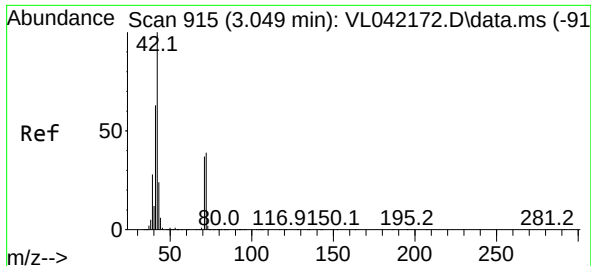
88 100

58 78.4 62.7 94.1

43 28.7 23.0 34.4

57 0.0 0.0 0.0

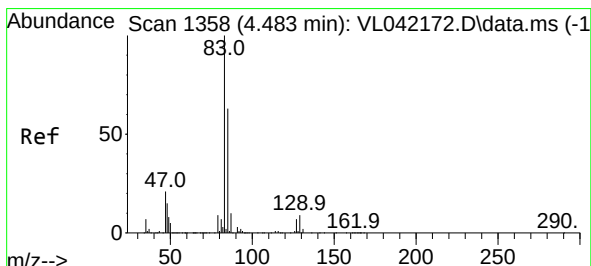
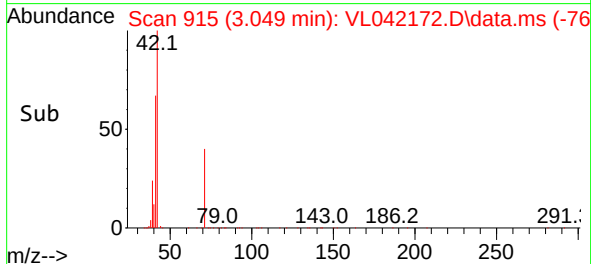
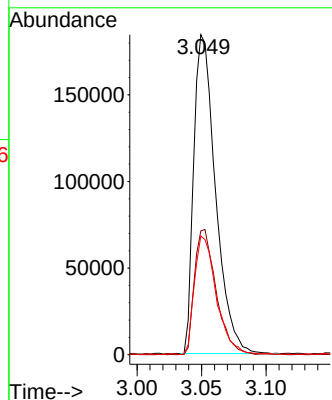
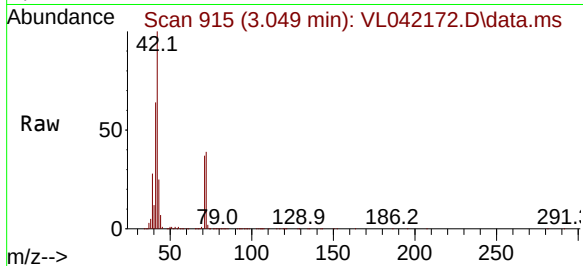




#41
Tetrahydrofuran
Concen: 9.643 ppbv
RT: 3.049 min Scan# 915
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

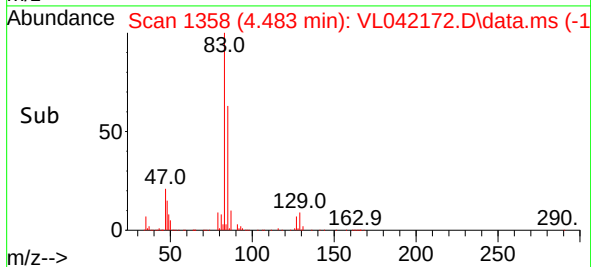
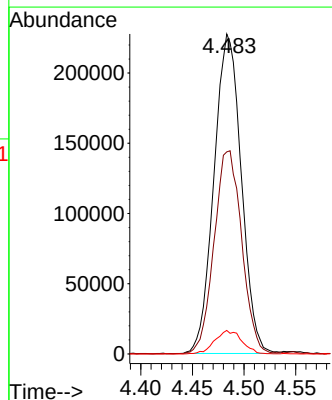
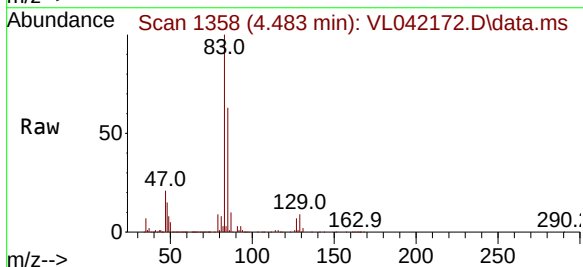
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

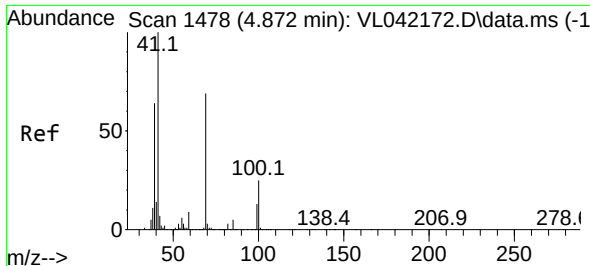
Tgt Ion: 42 Resp: 216851
Ion Ratio Lower Upper
42 100
72 39.2 31.4 47.0
71 37.8 30.2 45.4



#42
Bromodichloromethane
Concen: 9.822 ppbv
RT: 4.483 min Scan# 1358
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

Tgt Ion: 83 Resp: 418887
Ion Ratio Lower Upper
83 100
85 63.1 50.5 75.7
127 7.4 5.9 8.9

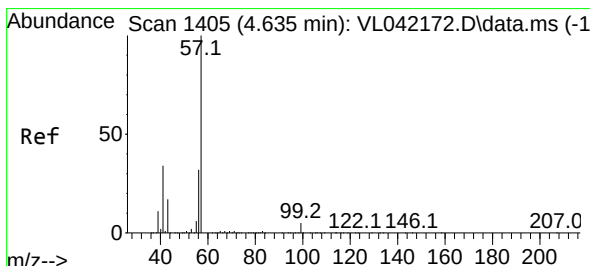
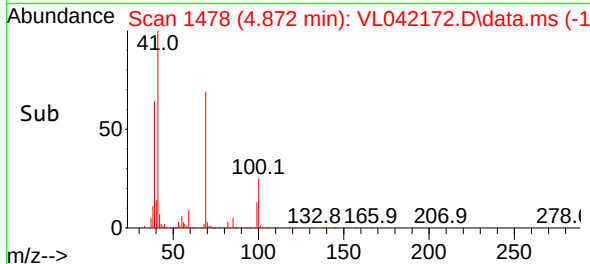
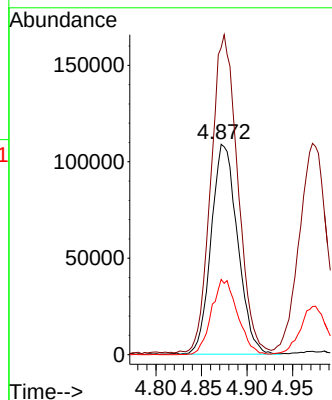
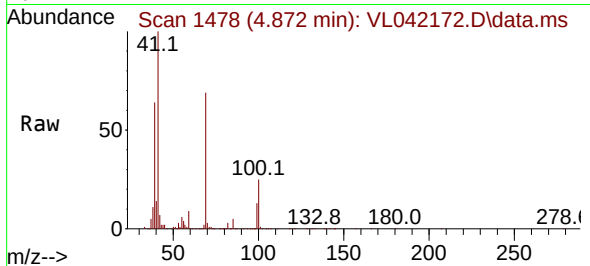




#43
Methyl Methacrylate
Concen: 9.618 ppbv
RT: 4.872 min Scan# 1478
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

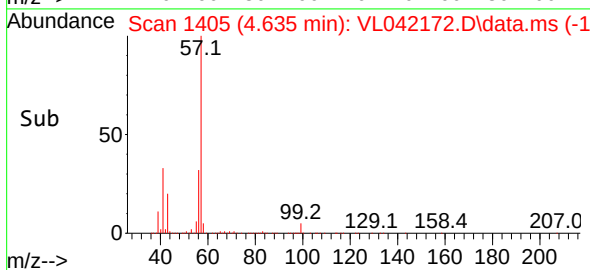
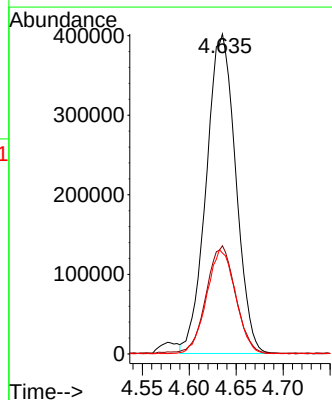
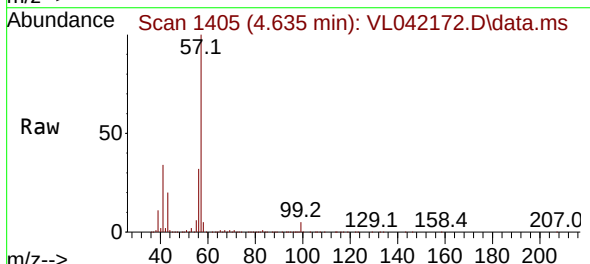
Instrument :
MSVOA_1
ClientSampleId :
VSTDICCC010

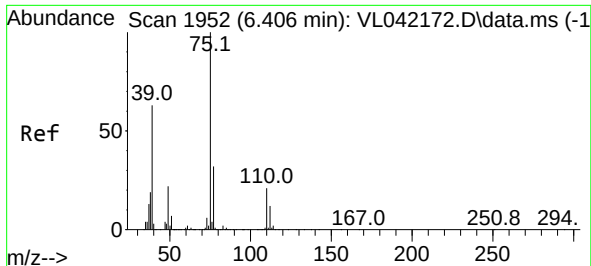
Tgt Ion: 69 Resp: 219399
Ion Ratio Lower Upper
69 100
41 154.7 123.8 185.6
100 35.5 28.4 42.6



#44
2,2,4-Trimethylpentane
Concen: 9.600 ppbv
RT: 4.635 min Scan# 1405
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

Tgt Ion: 57 Resp: 876649
Ion Ratio Lower Upper
57 100
41 33.5 26.8 40.2
56 32.0 25.6 38.4





#45

t-1,3-Dichloropropene

Concen: 9.746 ppbv

RT: 6.406 min Scan# 1952

Delta R.T. 0.000 min

Lab File: VL042172.D

Acq: 27 Mar 2025 08:26

Instrument :

MSVOA_L

ClientSampleId :

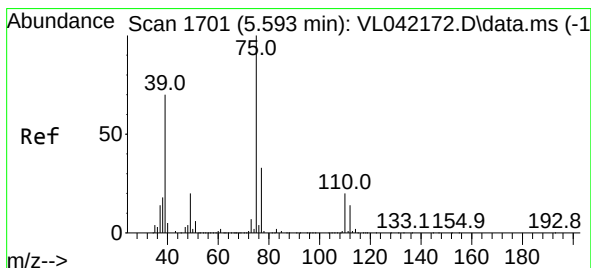
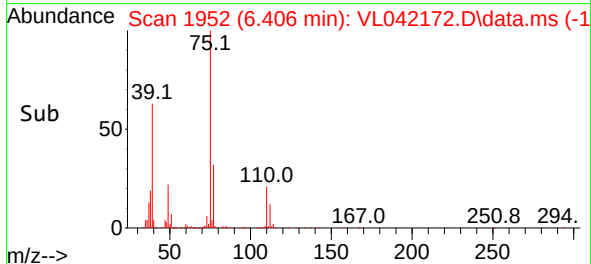
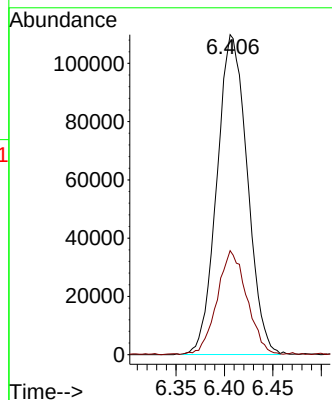
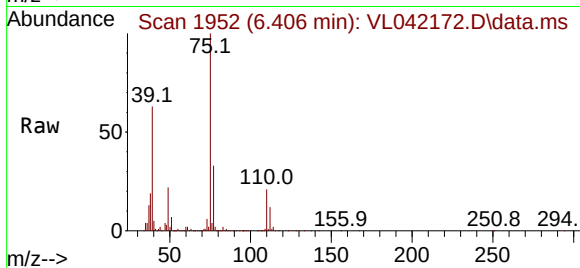
VSTDICCC010

Tgt Ion: 75 Resp: 239180

Ion Ratio Lower Upper

75 100

77 32.5 26.0 39.0



#46

cis-1,3-Dichloropropene

Concen: 9.973 ppbv

RT: 5.593 min Scan# 1701

Delta R.T. 0.000 min

Lab File: VL042172.D

Acq: 27 Mar 2025 08:26

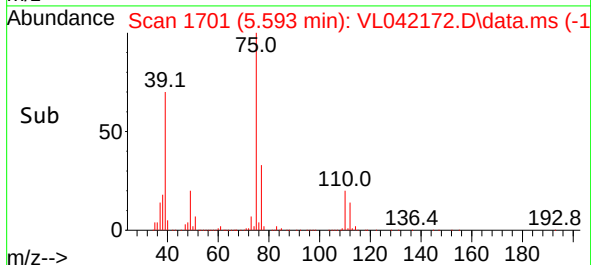
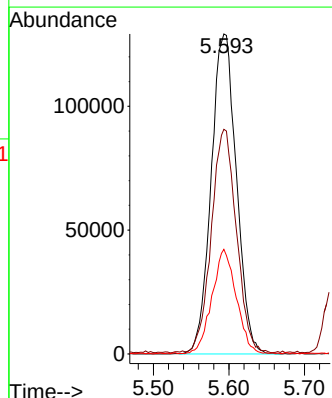
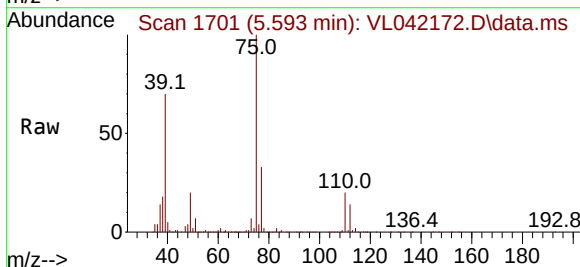
Tgt Ion: 75 Resp: 300021

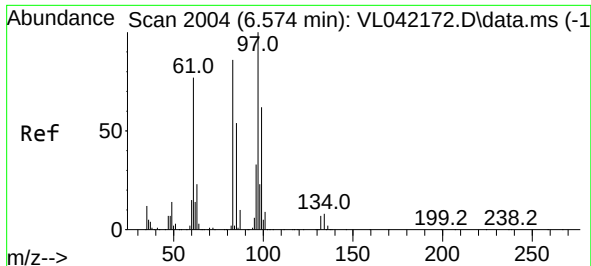
Ion Ratio Lower Upper

75 100

39 69.7 55.8 83.6

77 32.5 26.0 39.0

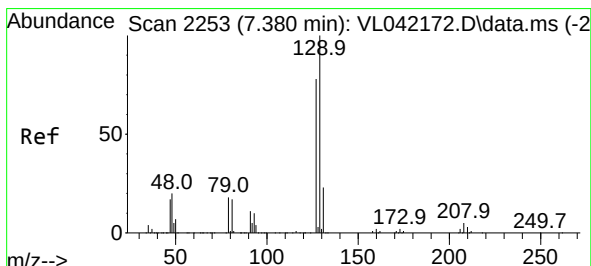
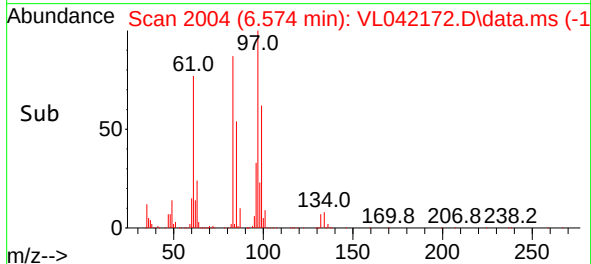
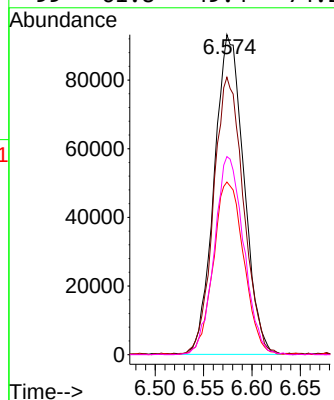
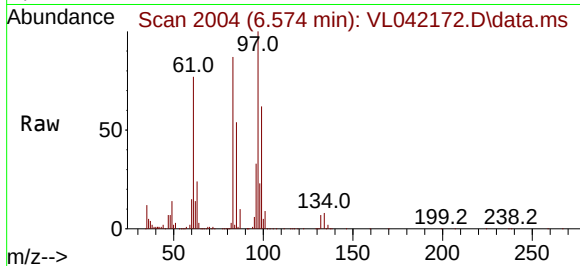




#47
1,1,2-Trichloroethane
Concen: 9.526 ppbv
RT: 6.574 min Scan# 2004
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

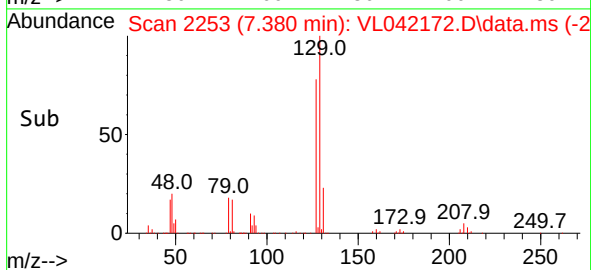
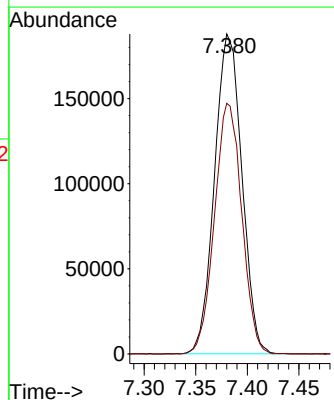
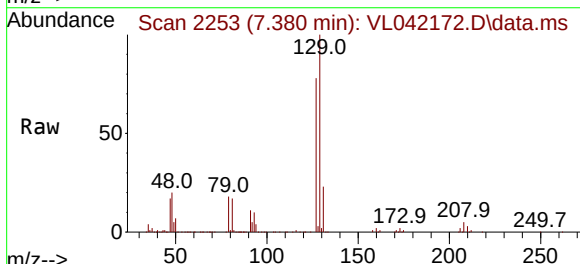
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

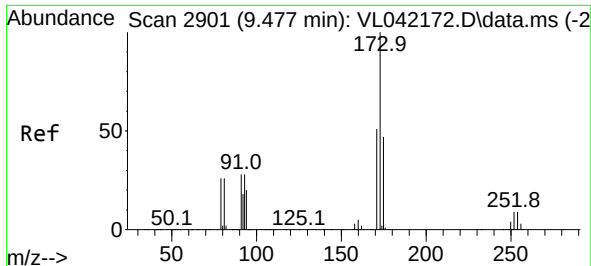
Tgt Ion:	97	Resp:	198176
Ion	Ratio	Lower	Upper
97	100		
83	86.5	69.2	103.8
85	53.9	43.1	64.7
99	61.8	49.4	74.2



#48
Dibromochloromethane
Concen: 9.828 ppbv
RT: 7.380 min Scan# 2253
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

Tgt Ion:	129	Resp:	346499
Ion	Ratio	Lower	Upper
129	100		
127	78.1	39.1	117.2

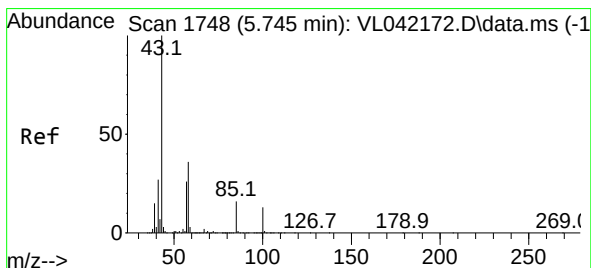
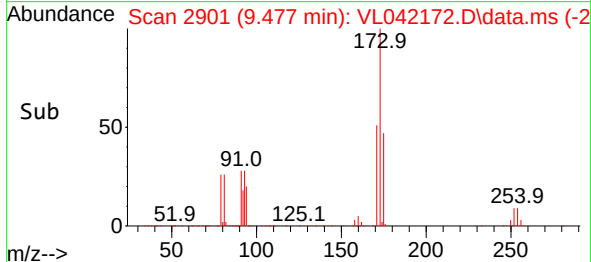
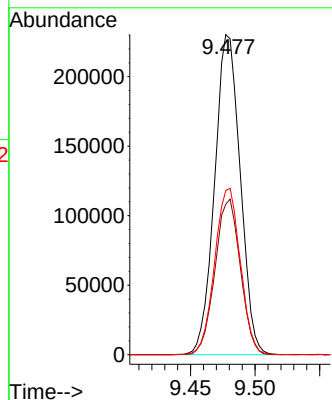
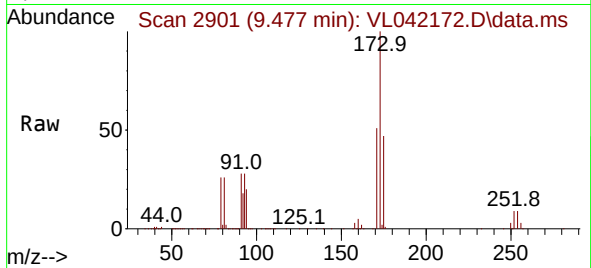




#49
Bromoform
Concen: 10.021 ppbv
RT: 9.477 min Scan# 2901
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

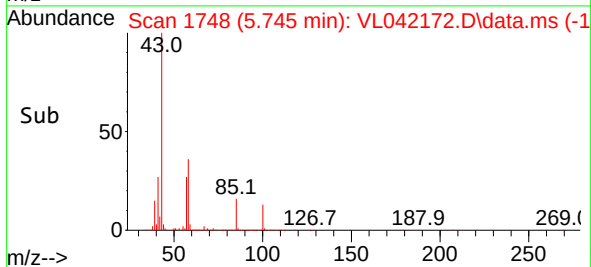
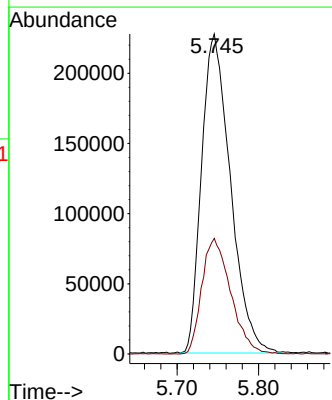
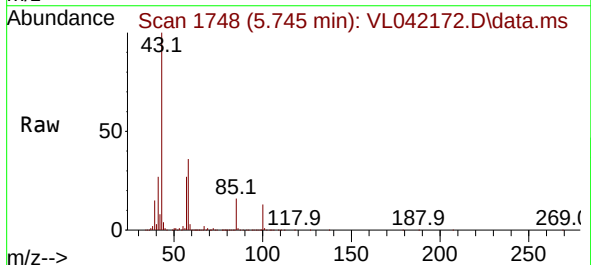
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

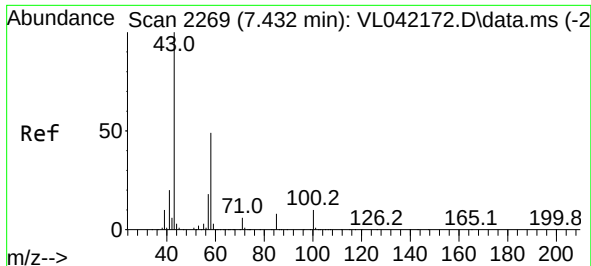
Tgt Ion:173 Resp: 317189
Ion Ratio Lower Upper
173 100
175 48.2 38.6 57.8
171 52.2 41.8 62.6



#50
4-Methyl-2-Pentanone
Concen: 8.934 ppbv
RT: 5.745 min Scan# 1748
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

Tgt Ion: 43 Resp: 559800
Ion Ratio Lower Upper
43 100
58 36.3 29.0 43.6

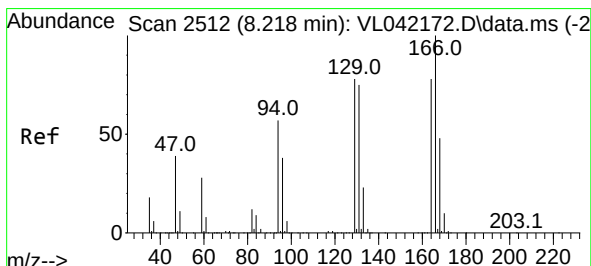
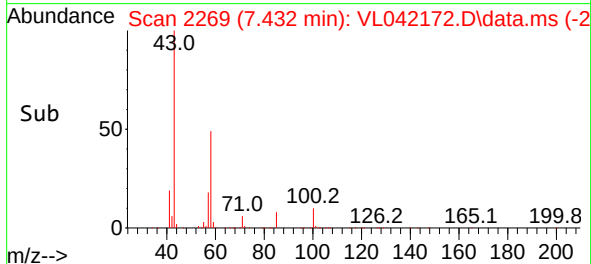
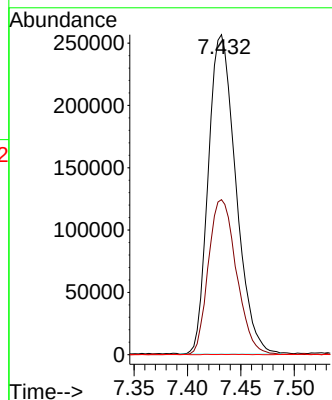
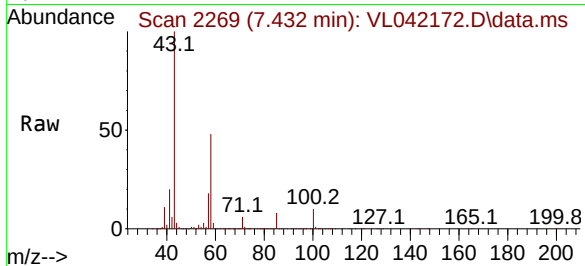




#51
2-Hexanone
Concen: 8.848 ppbv
RT: 7.432 min Scan# 21
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

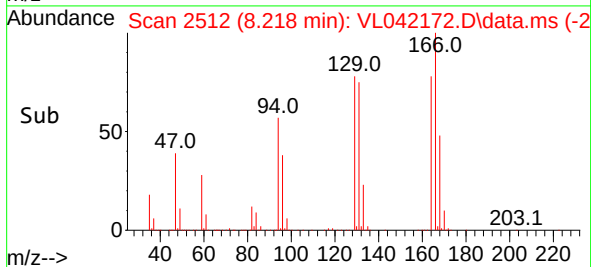
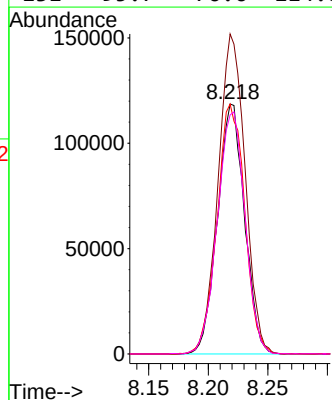
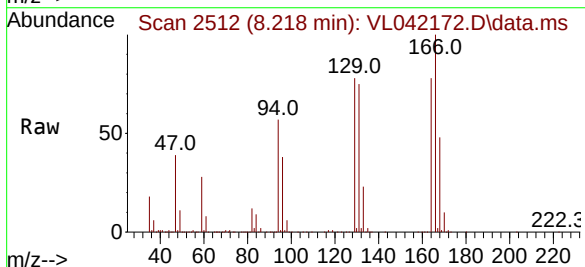
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

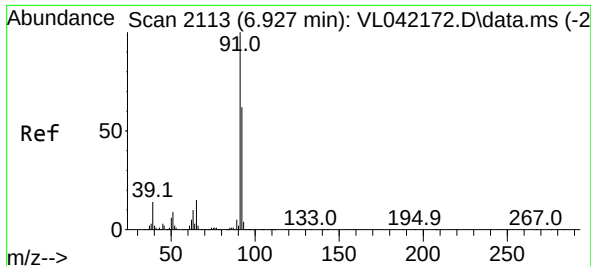
Tgt Ion: 43 Resp: 460013
Ion Ratio Lower Upper
43 100
58 49.6 39.7 59.5
98 0.1 0.1 0.1#



#52
Tetrachloroethene
Concen: 8.722 ppbv
RT: 8.218 min Scan# 2512
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

Tgt Ion:164 Resp: 186912
Ion Ratio Lower Upper
164 100
166 128.1 102.5 153.7
129 99.8 79.8 119.8
131 95.7 76.6 114.8

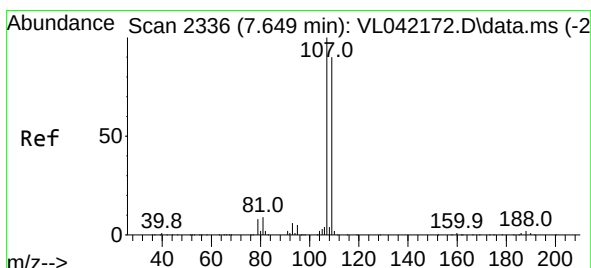
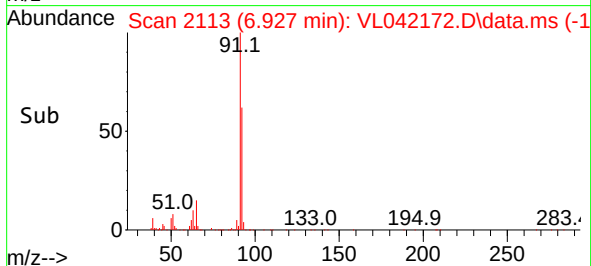
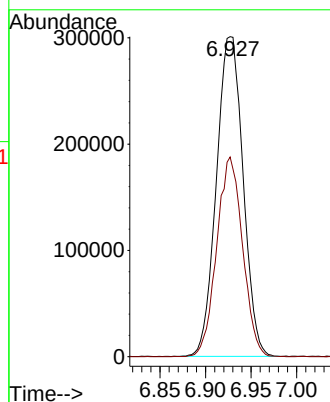
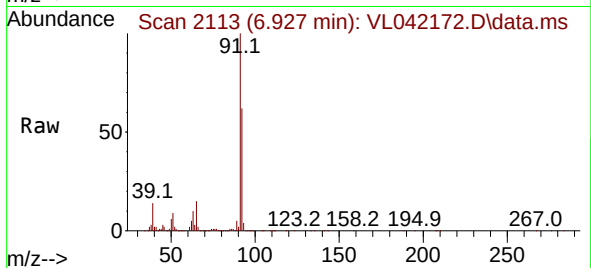




#53
Toluene
Concen: 9.576 ppbv
RT: 6.927 min Scan# 2113
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

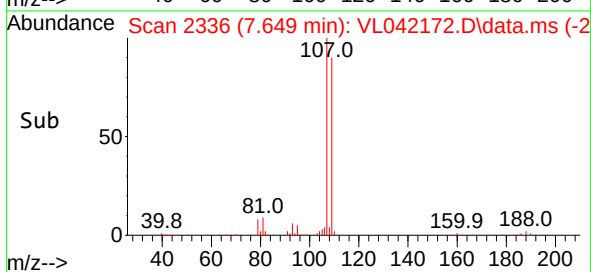
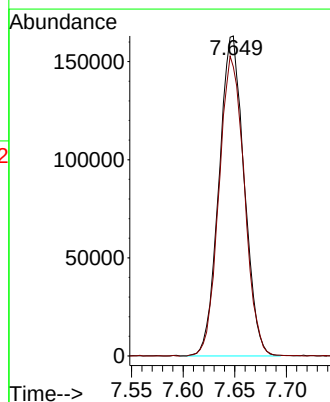
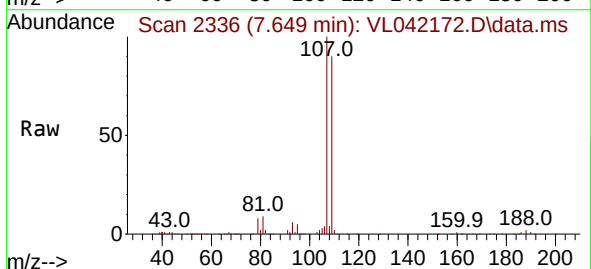
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

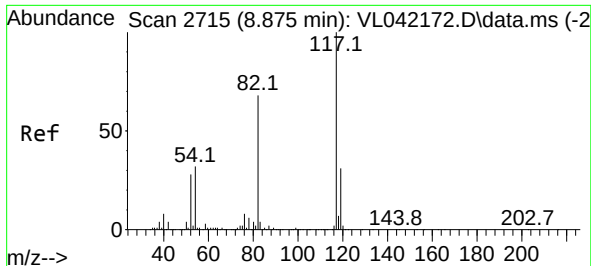
Tgt Ion: 91 Resp: 613378
Ion Ratio Lower Upper
91 100
92 60.5 48.4 72.6



#54
1,2-Dibromoethane
Concen: 9.536 ppbv
RT: 7.649 min Scan# 2336
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

Tgt Ion: 107 Resp: 276797
Ion Ratio Lower Upper
107 100
109 90.3 72.2 108.4

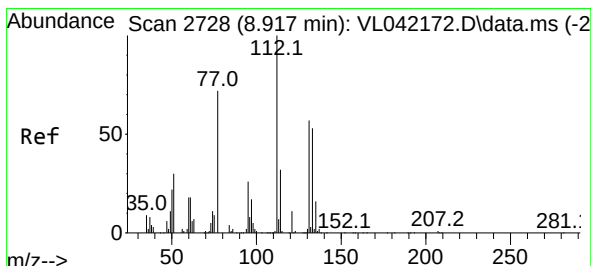
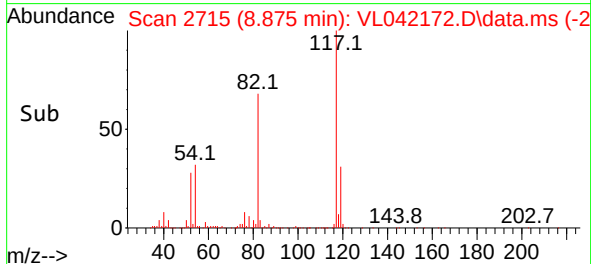
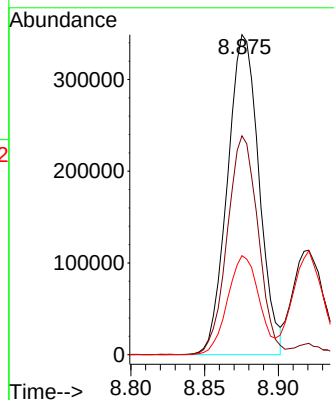
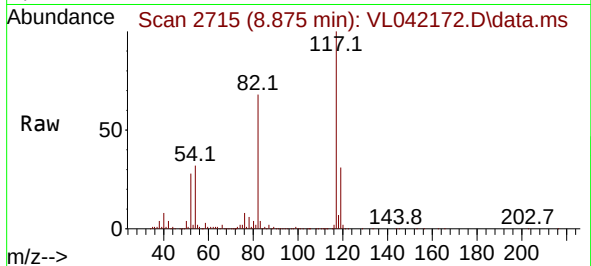




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.875 min Scan# 2715
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

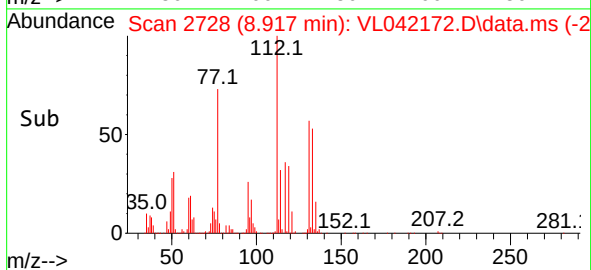
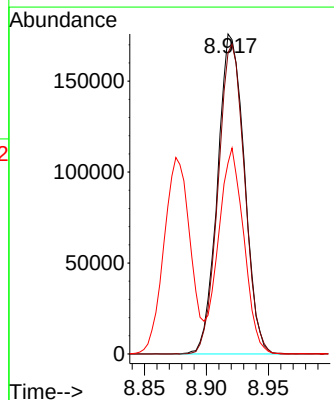
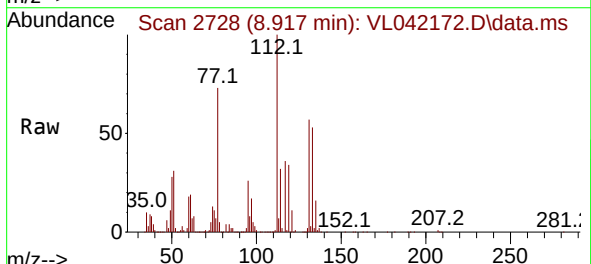
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

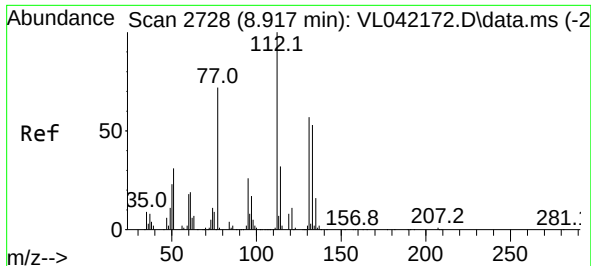
Tgt Ion:117 Resp: 519536
Ion Ratio Lower Upper
117 100
82 69.7 55.8 83.6
119 31.9 25.5 38.3



#56
1,1,1,2-Tetrachloroethane
Concen: 9.268 ppbv
RT: 8.917 min Scan# 2728
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

Tgt Ion:131 Resp: 265037
Ion Ratio Lower Upper
131 100
133 95.7 76.6 114.8
119 62.2 49.8 74.6

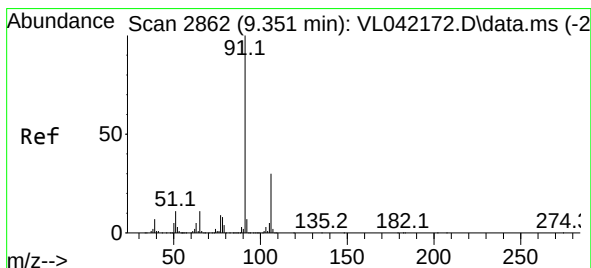
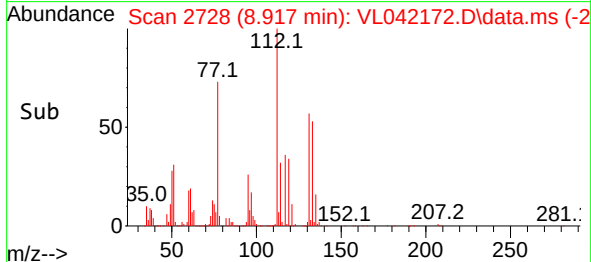
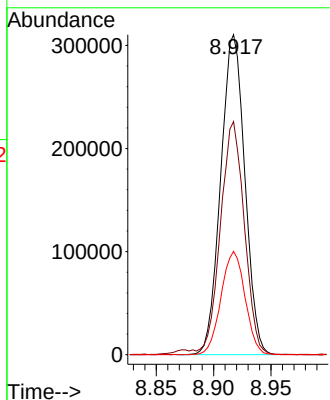
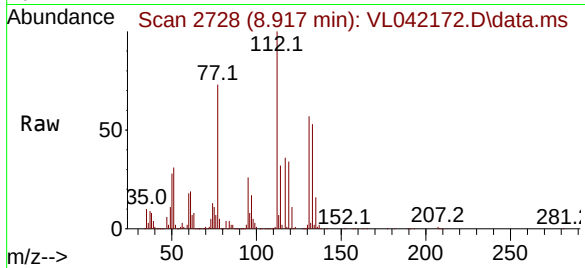




#57
Chlorobenzene
Concen: 9.223 ppbv
RT: 8.917 min Scan# 21
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

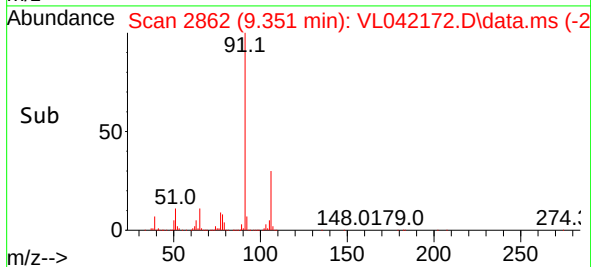
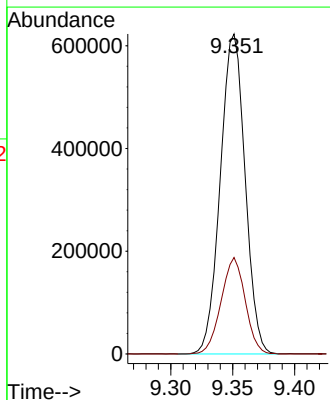
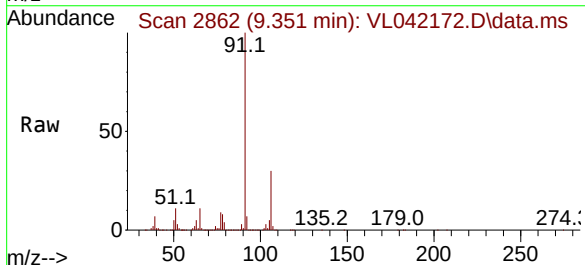
Instrument :
MSVOA_1
ClientSampleId :
VSTDICCC010

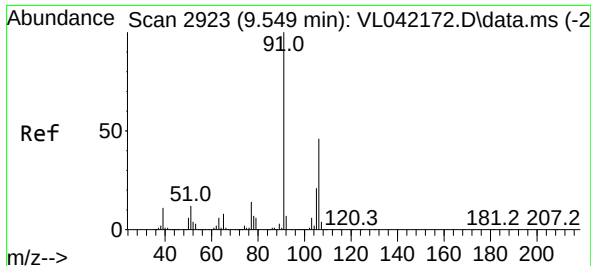
Tgt Ion:112 Resp: 454511
Ion Ratio Lower Upper
112 100
77 72.7 58.2 87.2
114 32.3 29.1 35.5



#58
Ethyl Benzene
Concen: 9.406 ppbv
RT: 9.351 min Scan# 2862
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

Tgt Ion: 91 Resp: 868003
Ion Ratio Lower Upper
91 100
106 30.2 24.2 36.2

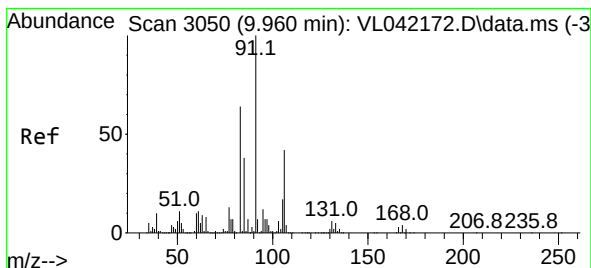
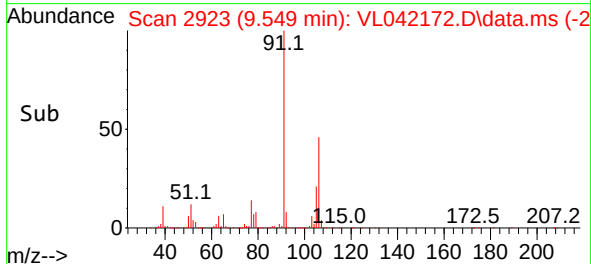
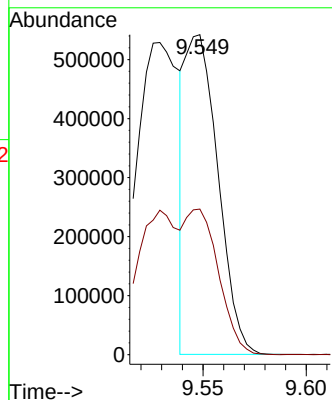
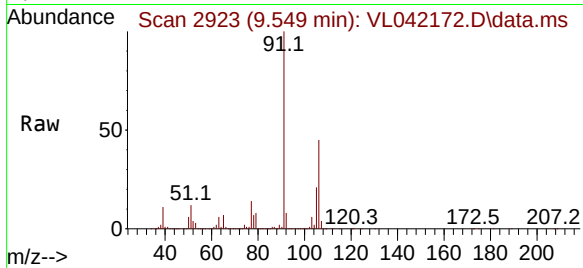




#59
m/p-Xylene
Concen: 8.071 ppbv
RT: 9.549 min Scan# 2923
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

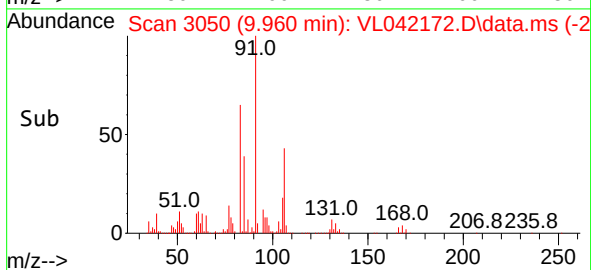
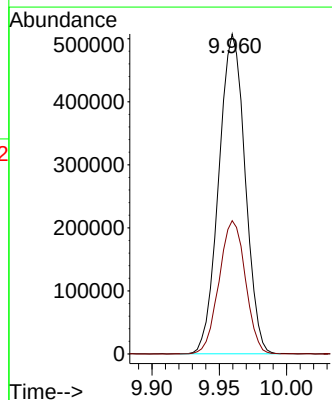
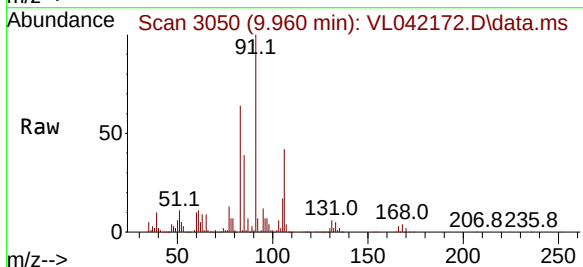
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

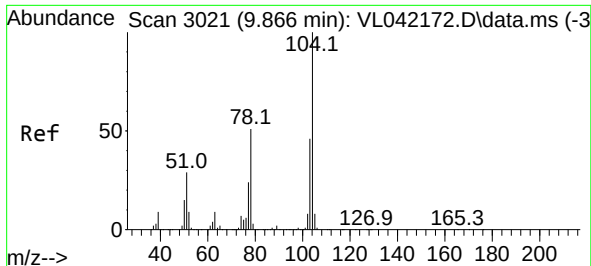
Tgt Ion: 91 Resp: 595445
Ion Ratio Lower Upper
91 100
106 105.0 36.4 54.6#



#60
o-Xylene
Concen: 9.340 ppbv
RT: 9.960 min Scan# 3050
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

Tgt Ion: 91 Resp: 689933
Ion Ratio Lower Upper
91 100
106 41.7 20.8 62.5

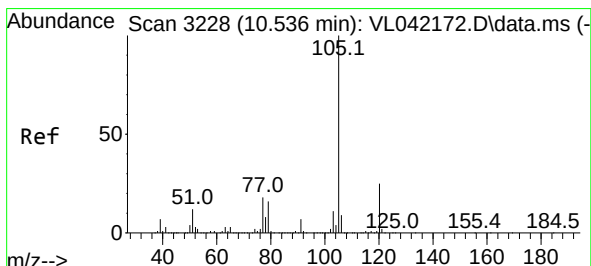
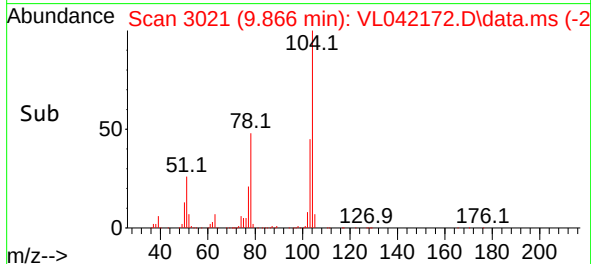
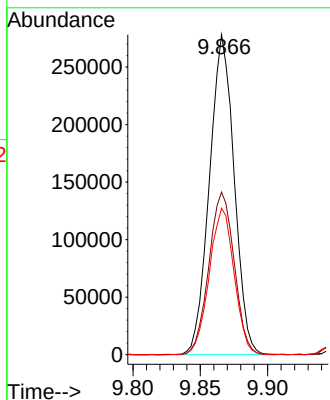
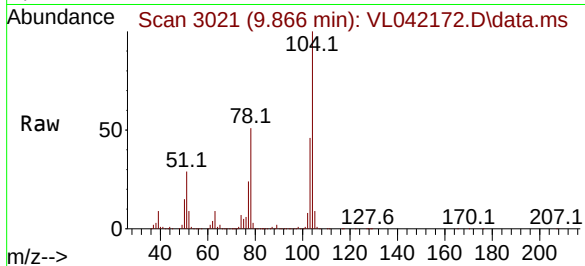




#61
Styrene
Concen: 9.706 ppbv
RT: 9.866 min Scan# 3021
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

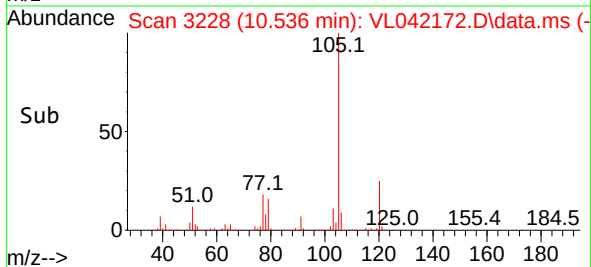
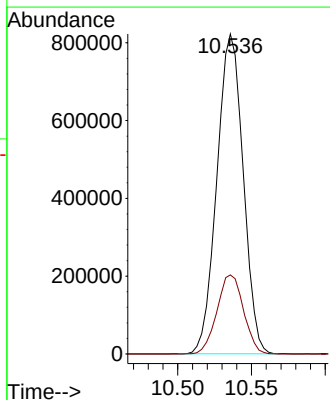
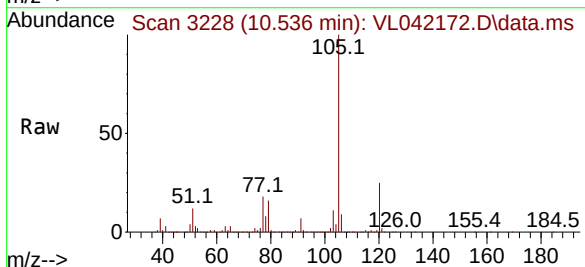
Instrument :
MSVOA_1
ClientSampleId :
VSTDICCC010

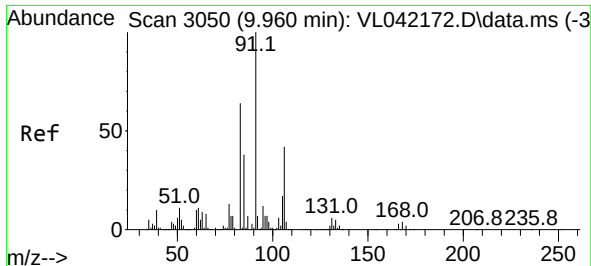
Tgt Ion:104 Resp: 354697
Ion Ratio Lower Upper
104 100
78 52.2 41.8 62.6
103 46.2 37.0 55.4



#62
Isopropylbenzene
Concen: 9.227 ppbv
RT: 10.536 min Scan# 3228
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

Tgt Ion:105 Resp: 1019255
Ion Ratio Lower Upper
105 100
120 24.9 19.9 29.9

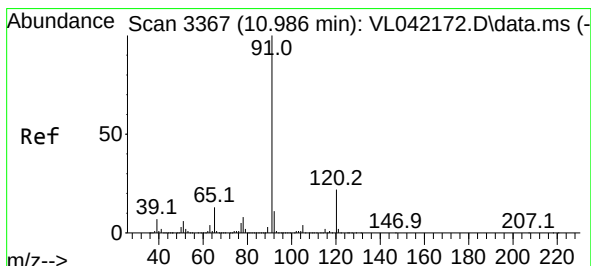
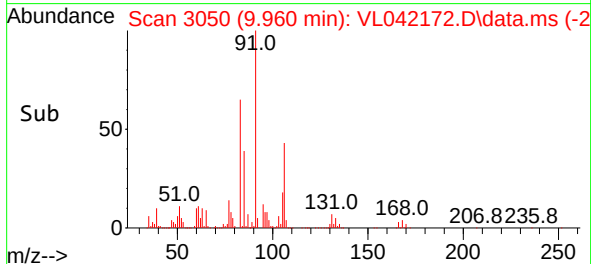
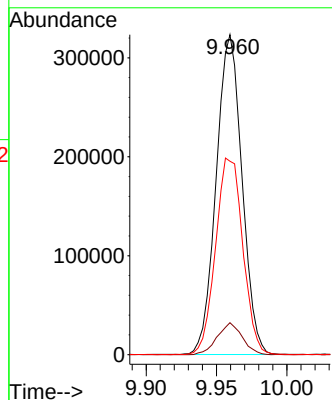
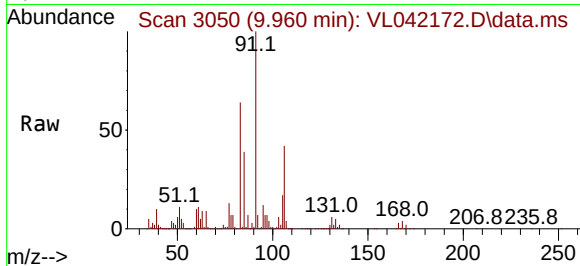




#63
 1,1,2,2-Tetrachloroethane
 Concen: 9.210 ppbv
 RT: 9.960 min Scan# 3050
 Delta R.T. 0.000 min
 Lab File: VL042172.D
 Acq: 27 Mar 2025 08:26

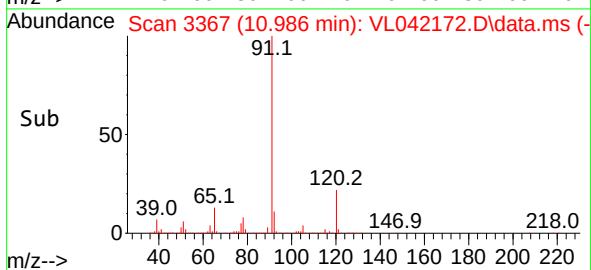
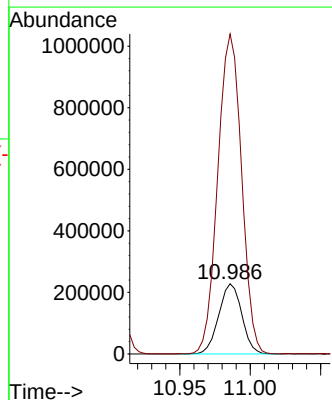
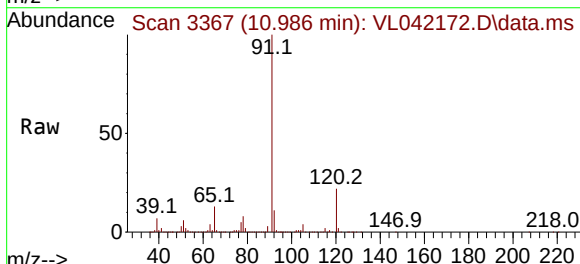
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDICCC010

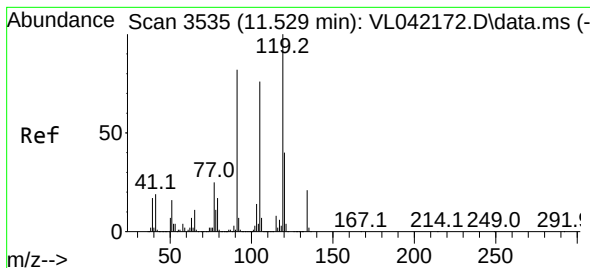
Tgt Ion: 83 Resp: 413392
 Ion Ratio Lower Upper
 83 100
 131 9.6 4.8 14.4
 85 65.0 32.5 97.5



#64
 n-propylbenzene
 Concen: 9.122 ppbv
 RT: 10.986 min Scan# 3367
 Delta R.T. 0.000 min
 Lab File: VL042172.D
 Acq: 27 Mar 2025 08:26

Tgt Ion: 120 Resp: 259405
 Ion Ratio Lower Upper
 120 100
 91 471.1 376.9 565.3





#65

tert-Butylbenzene

Concen: 8.828 ppbv

RT: 11.529 min Scan# 3535

Delta R.T. 0.000 min

Lab File: VL042172.D

Acq: 27 Mar 2025 08:26

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

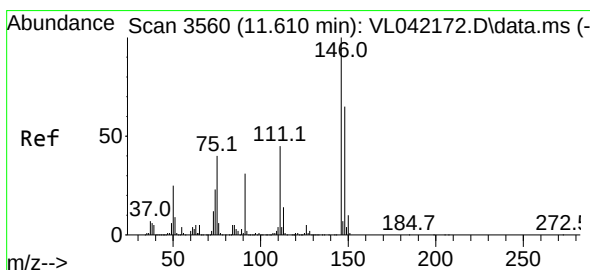
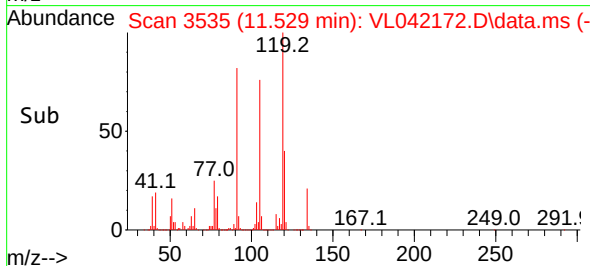
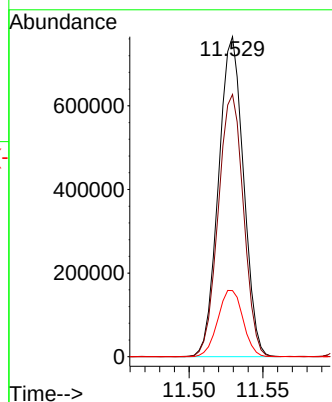
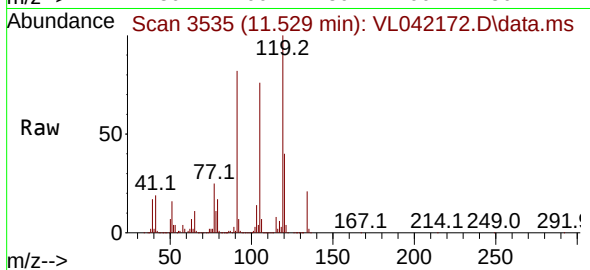
Tgt Ion:119 Resp: 901951

Ion Ratio Lower Upper

119 100

91 82.5 66.0 99.0

134 20.9 16.7 25.1



#66

Benzyl Chloride

Concen: 9.724 ppbv

RT: 11.610 min Scan# 3560

Delta R.T. 0.000 min

Lab File: VL042172.D

Acq: 27 Mar 2025 08:26

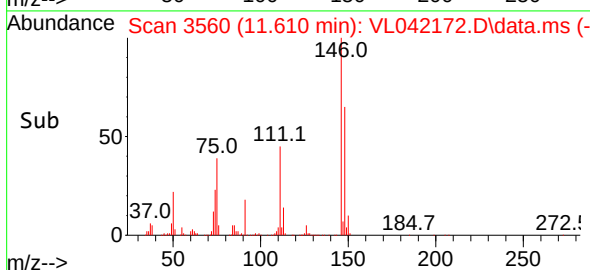
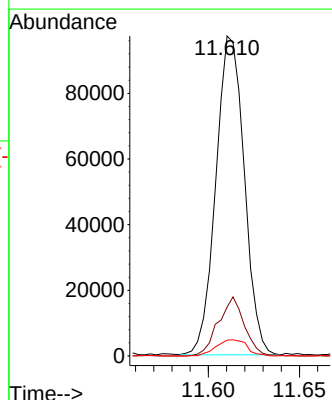
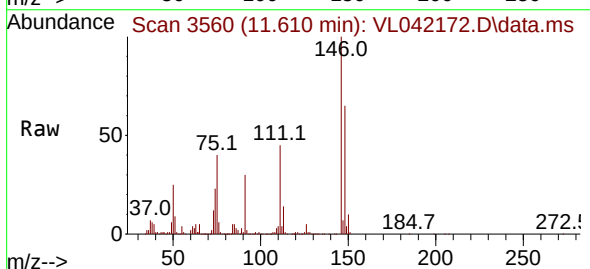
Tgt Ion: 91 Resp: 105411

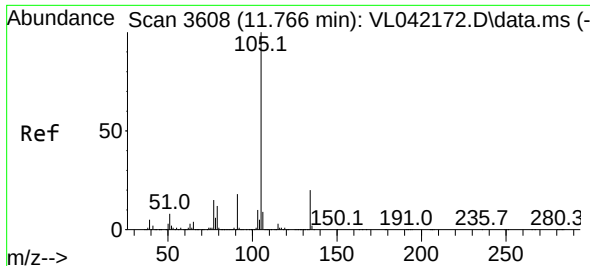
Ion Ratio Lower Upper

91 100

126 17.2 13.8 20.6

128 5.6 4.5 6.7

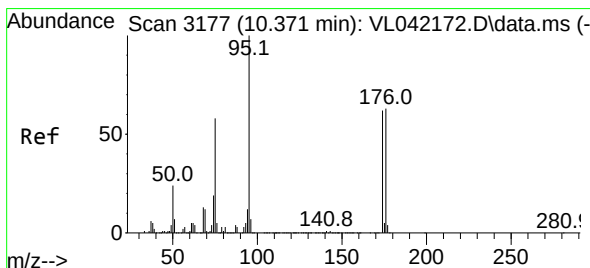
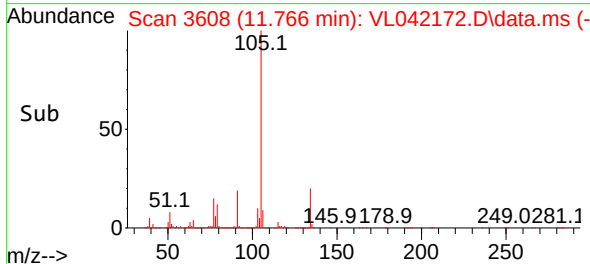
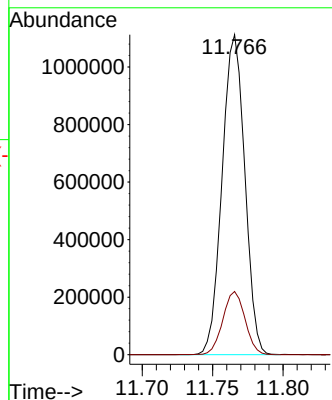
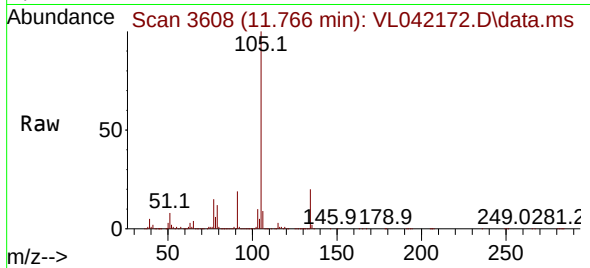




#67
 sec-Butylbenzene
 Concen: 8.796 ppbv
 RT: 11.766 min Scan# 3608
 Delta R.T. 0.000 min
 Lab File: VL042172.D
 Acq: 27 Mar 2025 08:26

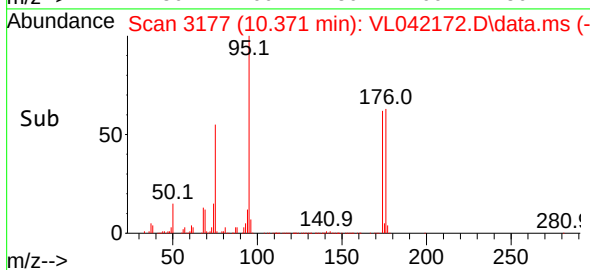
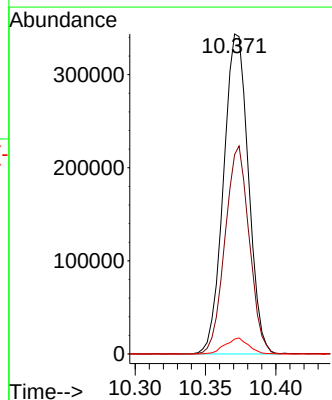
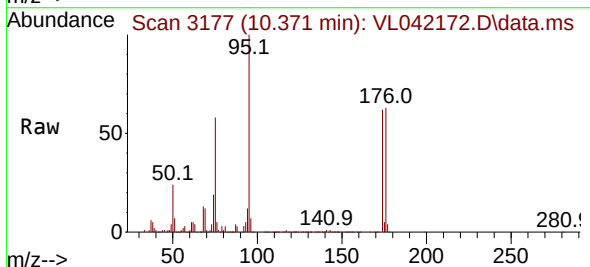
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

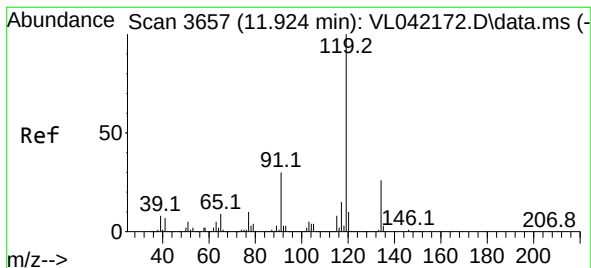
Tgt Ion:105 Resp: 1249106
 Ion Ratio Lower Upper
 105 100
 134 19.4 15.5 23.3



#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.901 ppbv
 RT: 10.371 min Scan# 3177
 Delta R.T. 0.000 min
 Lab File: VL042172.D
 Acq: 27 Mar 2025 08:26

Tgt Ion: 95 Resp: 422410
 Ion Ratio Lower Upper
 95 100
 174 63.3 50.6 76.0
 175 4.7 3.8 5.6





#69

p-Isopropyltoluene

Concen: 8.830 ppbv

RT: 11.924 min Scan# 3657

Delta R.T. 0.000 min

Lab File: VL042172.D

Acq: 27 Mar 2025 08:26

Instrument :

MSVOA_1

ClientSampleId :

VSTDICCC010

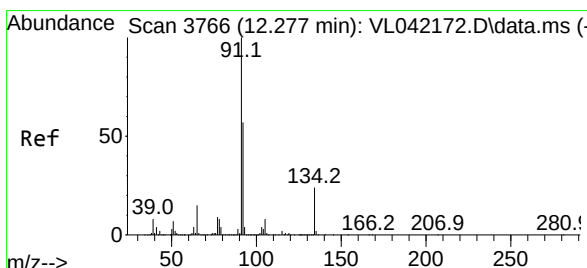
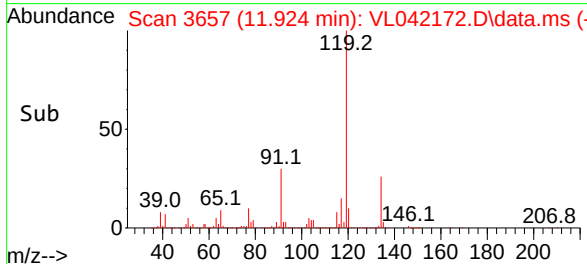
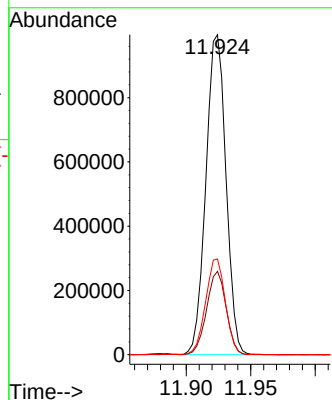
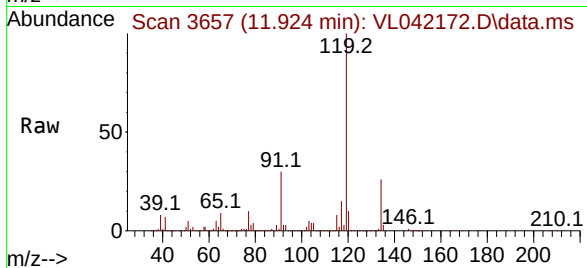
Tgt Ion:119 Resp: 1079675

Ion Ratio Lower Upper

119 100

134 25.5 20.4 30.6

91 29.6 23.7 35.5



#70

n-Butylbenzene

Concen: 8.879 ppbv

RT: 12.277 min Scan# 3766

Delta R.T. 0.000 min

Lab File: VL042172.D

Acq: 27 Mar 2025 08:26

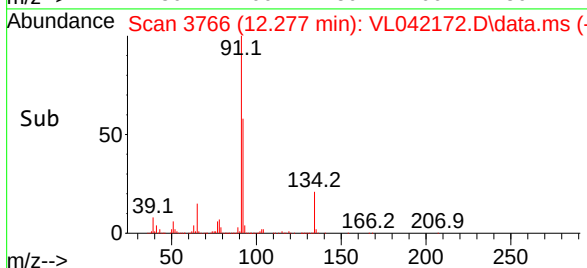
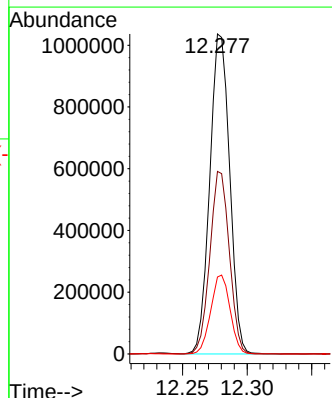
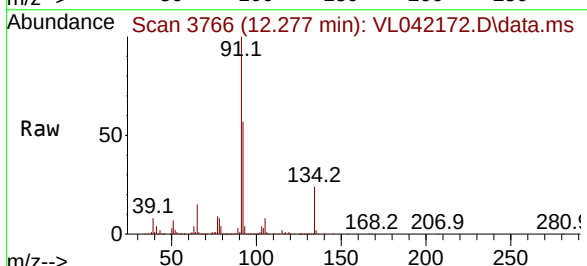
Tgt Ion: 91 Resp: 1110351

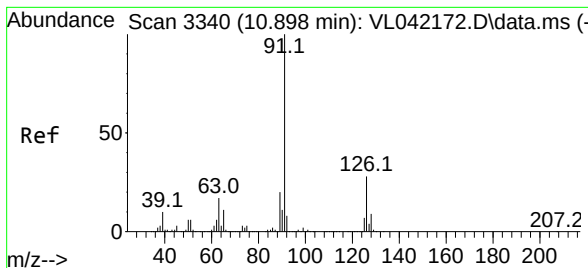
Ion Ratio Lower Upper

91 100

92 56.1 44.9 67.3

134 24.0 19.2 28.8

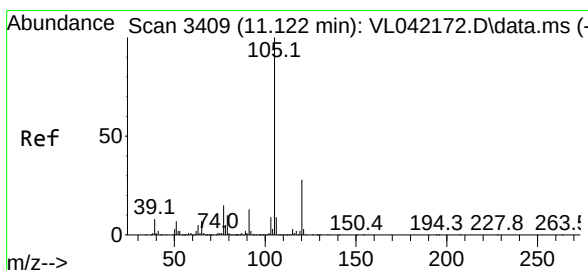
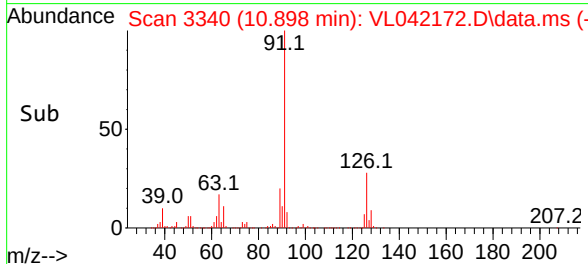
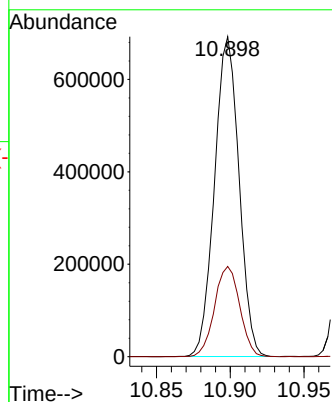
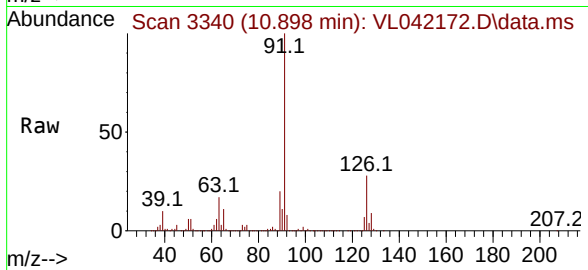




#71
2-Chlorotoluene
Concen: 9.320 ppbv
RT: 10.898 min Scan# 311
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

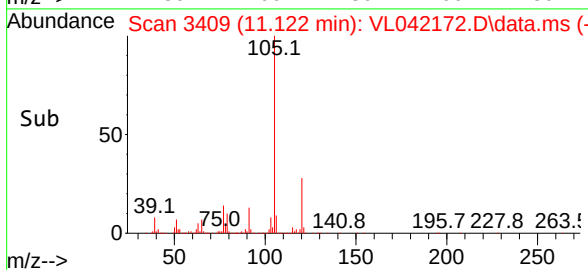
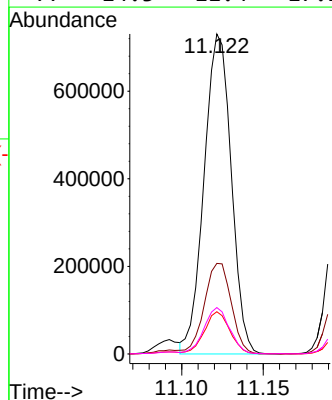
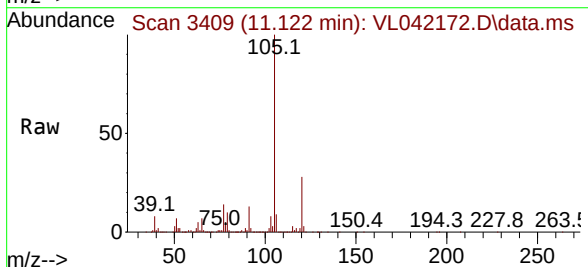
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

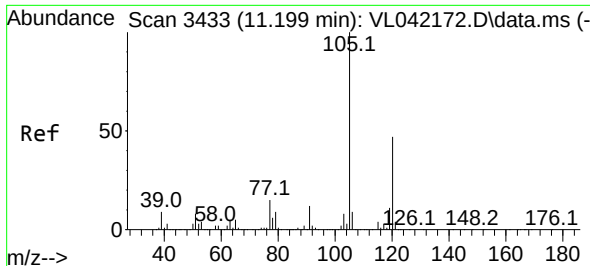
Tgt Ion: 91 Resp: 799102
Ion Ratio Lower Upper
91 100
126 29.0 11.6 46.4



#72
4-Ethyltoluene
Concen: 9.200 ppbv
RT: 11.122 min Scan# 3409
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

Tgt Ion: 105 Resp: 846232
Ion Ratio Lower Upper
105 100
120 29.2 23.4 35.0
91 12.9 10.3 15.5
77 14.3 11.4 17.2

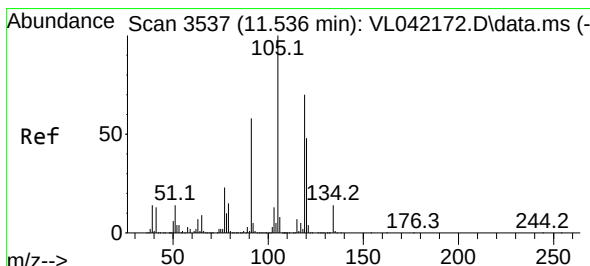
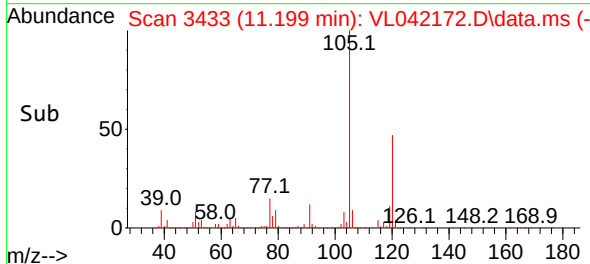
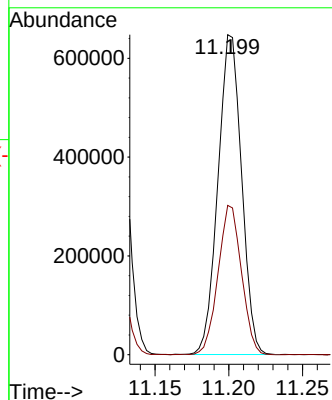
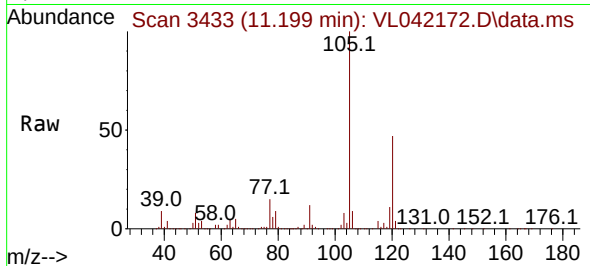




#73
 1,3,5-Trimethylbenzene
 Concen: 8.970 ppbv
 RT: 11.199 min Scan# 3433
 Delta R.T. 0.000 min
 Lab File: VL042172.D
 Acq: 27 Mar 2025 08:26

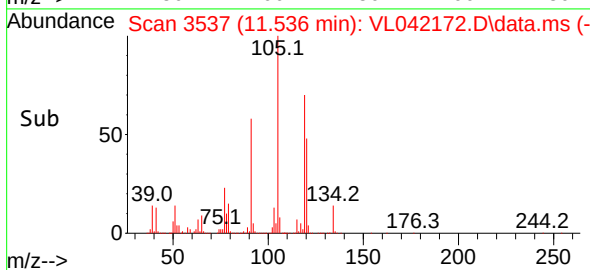
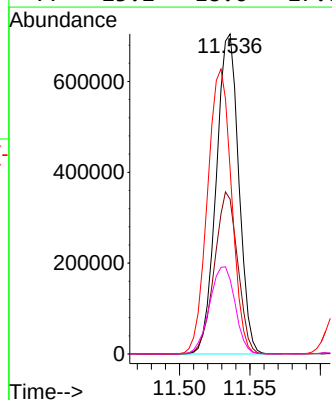
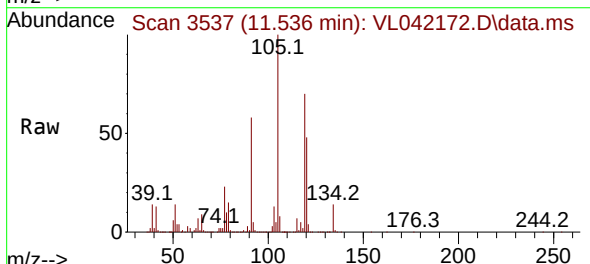
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDICCC010

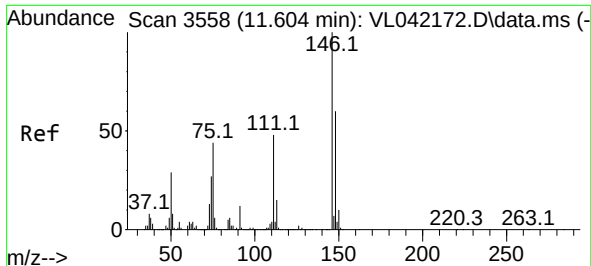
Tgt Ion:105 Resp: 720566
 Ion Ratio Lower Upper
 105 100
 120 46.7 37.4 56.0



#74
 1,2,4-Trimethylbenzene
 Concen: 8.480 ppbv
 RT: 11.536 min Scan# 3537
 Delta R.T. 0.000 min
 Lab File: VL042172.D
 Acq: 27 Mar 2025 08:26

Tgt Ion:105 Resp: 784745
 Ion Ratio Lower Upper
 105 100
 120 48.3 38.6 58.0
 91 57.7 46.2 69.2
 77 23.2 18.6 27.8

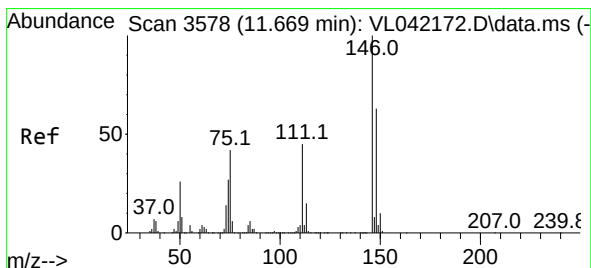
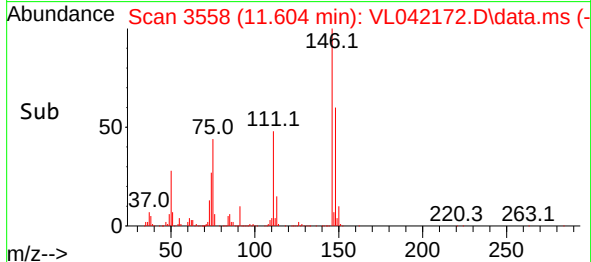
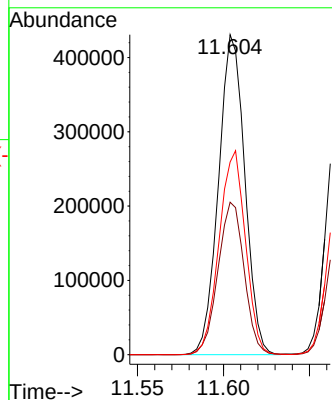
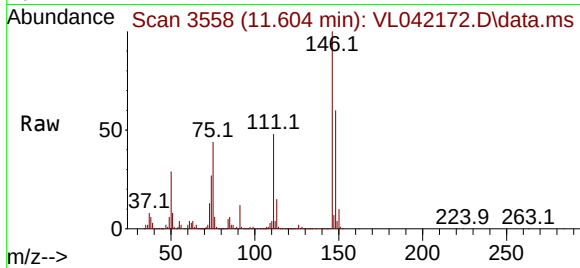




#75
1,3-Dichlorobenzene
Concen: 9.028 ppbv
RT: 11.604 min Scan# 3558
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

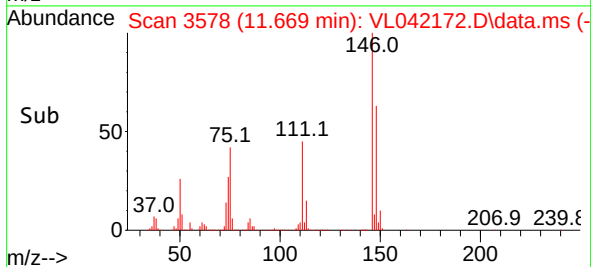
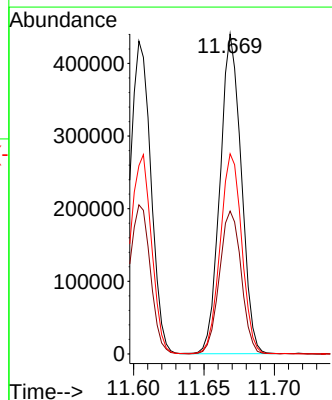
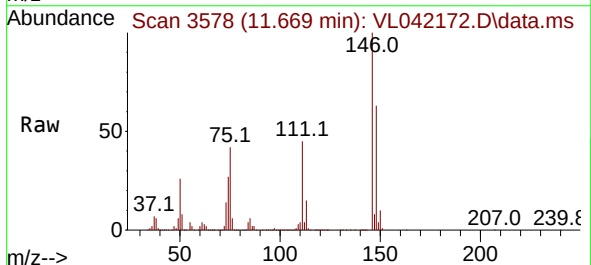
Instrument :
MSVOA_1
ClientSampleId :
VSTDICCC010

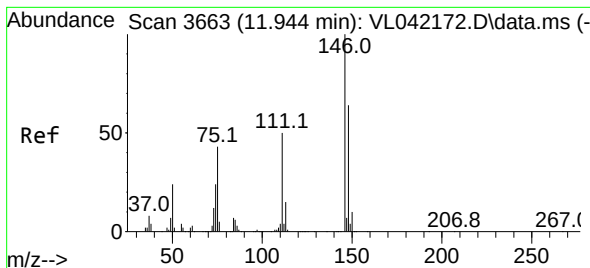
Tgt Ion:146 Resp: 458226
Ion Ratio Lower Upper
146 100
111 47.5 23.8 71.2
148 63.9 31.9 95.9



#76
1,4-Dichlorobenzene
Concen: 9.134 ppbv
RT: 11.669 min Scan# 3578
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

Tgt Ion:146 Resp: 461371
Ion Ratio Lower Upper
146 100
111 46.0 23.0 69.0
148 63.8 31.9 95.7





#77

1,2-Dichlorobenzene

Concen: 8.933 ppbv

RT: 11.944 min Scan# 3663

Delta R.T. 0.000 min

Lab File: VL042172.D

Acq: 27 Mar 2025 08:26

Instrument :

MSVOA_1

ClientSampleId :

VSTDICCC010

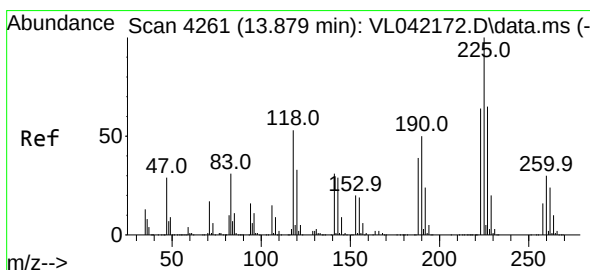
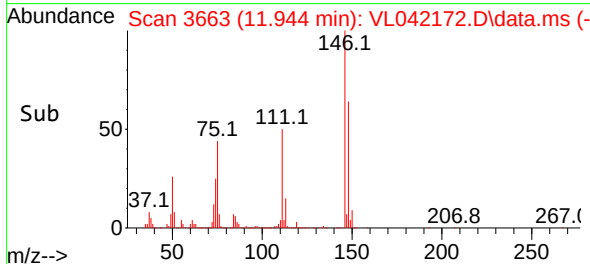
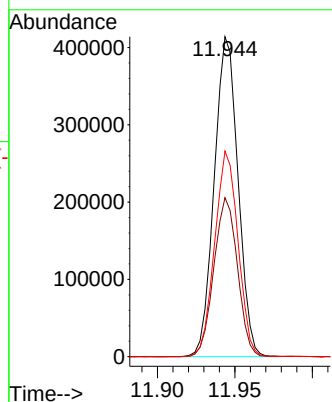
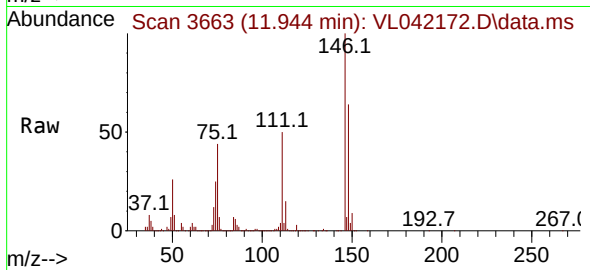
Tgt Ion:146 Resp: 441473

Ion Ratio Lower Upper

146 100

111 49.5 24.8 74.3

148 63.2 31.6 94.8



#78

Hexachloro-1,3-Butadiene

Concen: 8.284 ppbv

RT: 13.879 min Scan# 4261

Delta R.T. 0.000 min

Lab File: VL042172.D

Acq: 27 Mar 2025 08:26

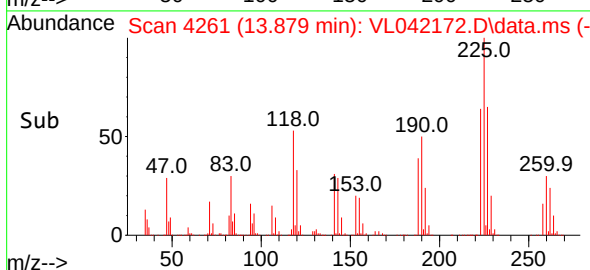
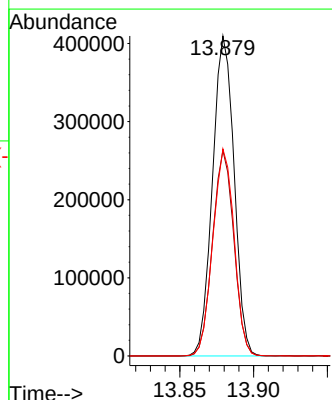
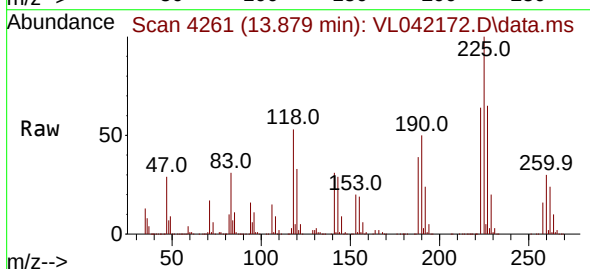
Tgt Ion:225 Resp: 416735

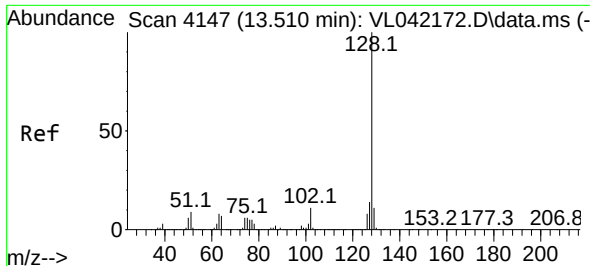
Ion Ratio Lower Upper

225 100

223 63.3 50.6 76.0

227 64.0 51.2 76.8

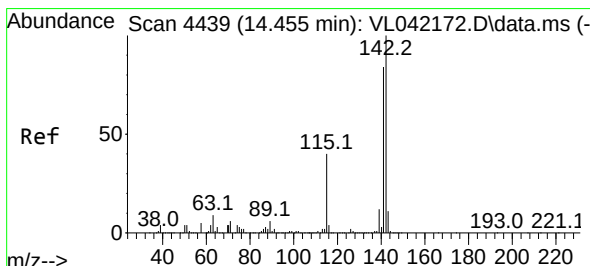
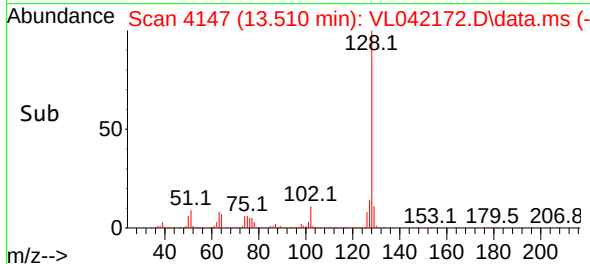
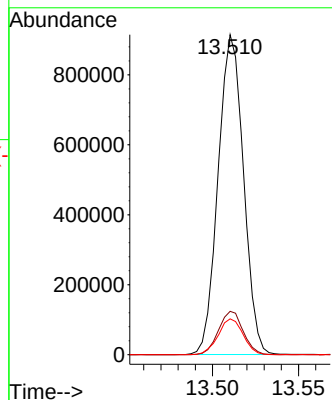
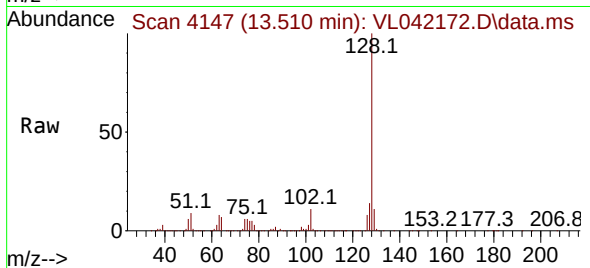




#79
Naphthalene
Concen: 9.271 ppbv
RT: 13.510 min Scan# 4147
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

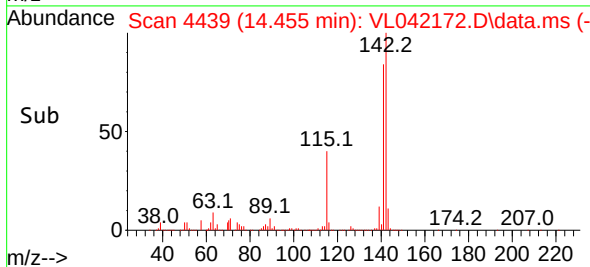
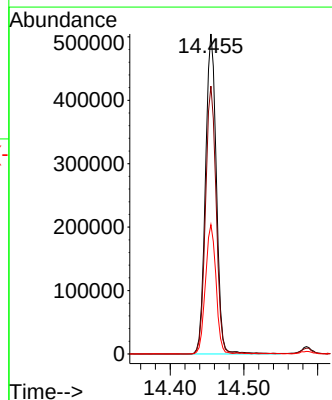
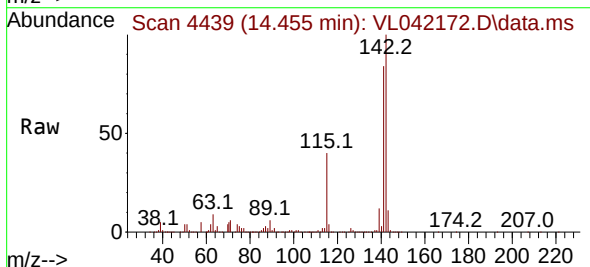
Instrument :
MSVOA_1
ClientSampleId :
VSTDICCC010

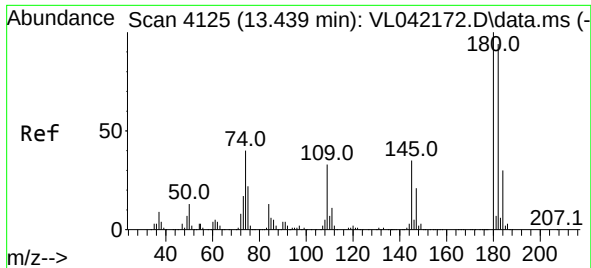
Tgt Ion:128 Resp: 938470
Ion Ratio Lower Upper
128 100
127 13.5 10.8 16.2
129 11.2 9.0 13.4



#80
Naphthalene,2-methyl-
Concen: 10.436 ppbv
RT: 14.455 min Scan# 4439
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

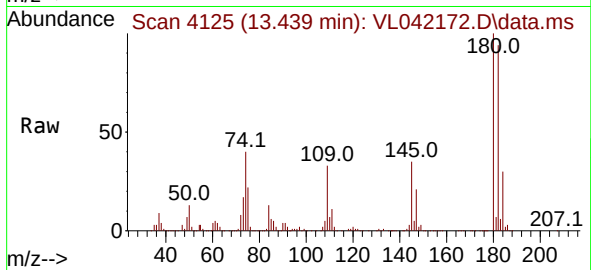
Tgt Ion:142 Resp: 514394
Ion Ratio Lower Upper
142 100
141 82.9 66.3 99.5
115 39.5 31.6 47.4



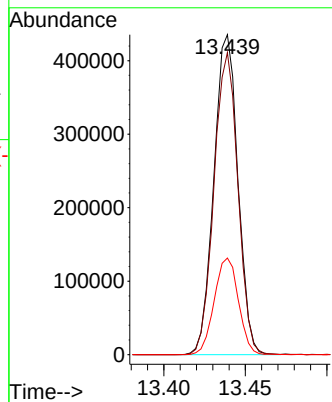
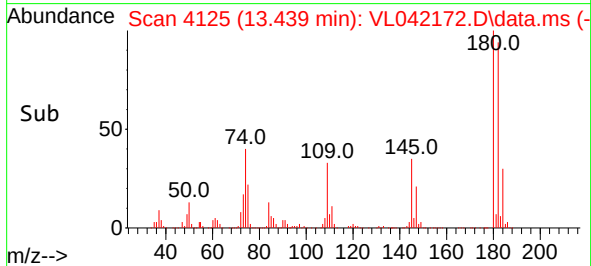


#81
 1,2,4-Trichlorobenzene
 Concen: 9.561 ppbv
 RT: 13.439 min Scan# 41
 Delta R.T. 0.000 min
 Lab File: VL042172.D
 Acq: 27 Mar 2025 08:26

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010



Tgt Ion:180 Resp: 446420
 Ion Ratio Lower Upper
 180 100
 182 93.9 75.1 112.7
 184 30.5 24.4 36.6



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
 Data File : VL042173.D
 Acq On : 27 Mar 2025 08:59
 Operator : SY/MD
 Sample : VSTDICC002
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC002

Quant Time: Mar 28 01:32:52 2025
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 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri Mar 28 01:31:23 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.784	49	188395	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.952	114	546394	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.875	117	504538	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	10.370	95	417532	10.077	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.800%

Target Compounds	Qvalue					
2) Dichlorodifluoromethane	1.496	85	55859	2.008	ppbv	99
3) Chlorodifluoromethane	1.473	51	57045	2.007	ppbv	99
4) Chloromethane	1.531	50	23293	2.049	ppbv	94
5) Vinyl Chloride	1.576	62	21989	1.897	ppbv	99
6) Bromomethane	1.664	94	10027	1.946	ppbv	98
7) Chloroethane	1.703	64	8413	1.844	ppbv	92
8) Dichlorotetrafluoroethane	1.551	85	48008	2.027	ppbv	98
9) Propene	1.483	41	26295	2.054	ppbv	94
10) Heptane	4.972	43	71466	2.063	ppbv	99
11) Trichlorofluoromethane	1.874	101	55754	2.060	ppbv	99
12) 1,1,2-Trichlorotrifluo...	2.136	101	44761	2.012	ppbv	98
13) Ethanol	1.719	45	1827	1.822	ppbv #	49
14) Bromoethene	1.780	108	17323	2.033	ppbv #	89
15) Acetone	1.832	43	55365	2.101	ppbv	95
16) 1,3-Butadiene	1.606	39	22894	1.932	ppbv	95
17) tert-Butyl alcohol	2.039	59	66174	2.016	ppbv	100
18) 1,1-Dichloroethene	2.030	96	21103	2.029	ppbv	95
19) Isopropyl Alcohol	1.884	45	27804	1.870	ppbv #	35
20) Methylene Chloride	2.059	84	20518	2.091	ppbv	96
21) Allyl Chloride	2.094	41	38425	2.068	ppbv	99
22) trans-1,2-Dichloroethene	2.337	96	23384	1.924	ppbv	92
23) Vinyl Acetate	2.460	43	20736	1.894	ppbv #	97
24) 1,1-Dichloroethane	2.405	63	44740	2.008	ppbv	99
25) Ethyl Acetate	2.832	43	139516	2.040	ppbv	99
26) Hexane	2.823	57	52095	1.972	ppbv	92
27) Carbon Disulfide	2.146	76	57969	2.047	ppbv #	76
28) Methyl tert-Butyl Ether	2.437	73	33703	2.049	ppbv	99
29) Chloroform	2.845	83	78043	2.019	ppbv	95
30) Cyclohexane	3.852	84	45641	1.989	ppbv	99
31) cis-1,2-Dichloroethene	2.719	61	53713	2.003	ppbv	96
32) 1,1,1-Trichloroethane	3.363	97	81070	1.833	ppbv	99
34) 2-Butanone	2.554	43	84157	2.124	ppbv	99
35) Carbon Tetrachloride	3.758	117	81735	1.944	ppbv	96
36) Benzene	3.651	78	110727	2.044	ppbv	97
37) 1,2-Dichloroethane	3.214	62	61476	1.982	ppbv	97
38) Trichloroethene	4.541	130	43501	1.924	ppbv	97
39) 1,2-Dichloropropane	4.308	63	39912	2.023	ppbv	93
40) 1,4-Dioxane	4.587	88	14008	1.369	ppbv #	2
41) Tetrahydrofuran	3.056	42	47262	2.097	ppbv	99
42) Bromodichloromethane	4.483	83	87640	2.050	ppbv	99
43) Methyl Methacrylate	4.878	69	44624	1.952	ppbv	97
44) 2,2,4-Trimethylpentane	4.632	57	188282	2.057	ppbv	100
45) t-1,3-Dichloropropene	6.406	75	49461	2.011	ppbv	99

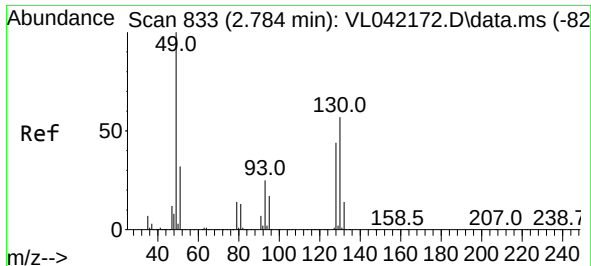
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 Acq On : 27 Mar 2025 08:59
 Operator : SY/MD
 Sample : VSTDICC002
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC002

Quant Time: Mar 28 01:32:52 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri Mar 28 01:31:23 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.593	75	61829	2.050	ppbv #	91
47) 1,1,2-Trichloroethane	6.577	97	41387	1.985	ppbv	95
48) Dibromochloromethane	7.383	129	72441	2.050	ppbv	100
49) Bromoform	9.477	173	65221	2.056	ppbv	98
50) 4-Methyl-2-Pentanone	5.752	43	132328	2.107	ppbv	99
51) 2-Hexanone	7.435	43	112681	2.162	ppbv #	99
52) Tetrachloroethene	8.221	164	40558	1.888	ppbv	98
53) Toluene	6.923	91	131314	2.045	ppbv	99
54) 1,2-Dibromoethane	7.648	107	56799	1.952	ppbv	90
56) 1,1,1,2-Tetrachloroethane	8.920	131	58141	2.093	ppbv	97
57) Chlorobenzene	8.914	112	100308	2.096	ppbv #	94
58) Ethyl Benzene	9.351	91	191114	2.132	ppbv	96
59) m/p-Xylene	9.548	91	167182	2.333	ppbv #	31
60) o-Xylene	9.959	91	151292	2.109	ppbv	98
61) Styrene	9.865	104	74134	2.089	ppbv	98
62) Isopropylbenzene	10.535	105	228191	2.127	ppbv	99
63) 1,1,2,2-Tetrachloroethane	9.956	83	90114	2.067	ppbv	99
64) n-propylbenzene	10.985	120	58105	2.104	ppbv	92
65) tert-Butylbenzene	11.529	119	216336	2.180	ppbv	99
66) Benzyl Chloride	11.610	91	22272	2.116	ppbv	95
67) sec-Butylbenzene	11.762	105	297381	2.156	ppbv	99
69) p-Isopropyltoluene	11.921	119	258357	2.176	ppbv	100
70) n-Butylbenzene	12.277	91	270616	2.228	ppbv	99
71) 2-Chlorotoluene	10.898	91	177487	2.132	ppbv	100
72) 4-Ethyltoluene	11.121	105	194660	2.179	ppbv	99
73) 1,3,5-Trimethylbenzene	11.199	105	169221	2.169	ppbv	96
74) 1,2,4-Trimethylbenzene	11.532	105	198351	2.207	ppbv	96
75) 1,3-Dichlorobenzene	11.604	146	107217	2.175	ppbv	97
76) 1,4-Dichlorobenzene	11.668	146	104925	2.139	ppbv	99
77) 1,2-Dichlorobenzene	11.943	146	102310	2.132	ppbv	99
78) Hexachloro-1,3-Butadiene	13.879	225	109539	2.242	ppbv	99
79) Naphthalene	13.510	128	233451	2.375	ppbv	97
80) Naphthalene,2-methyl-	14.455	142	117313	2.451	ppbv	99
81) 1,2,4-Trichlorobenzene	13.435	180	103765	2.288	ppbv	97

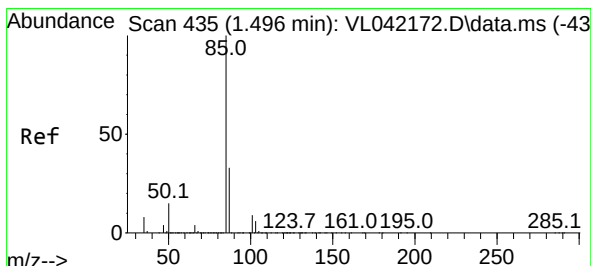
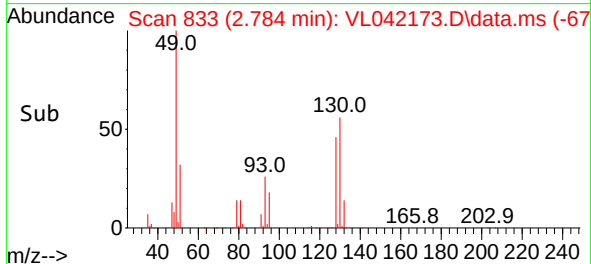
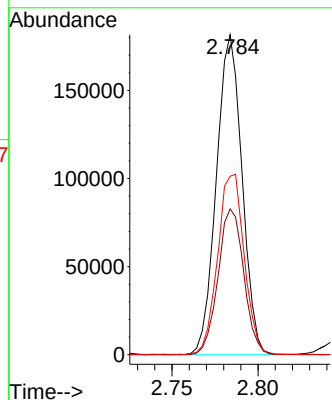
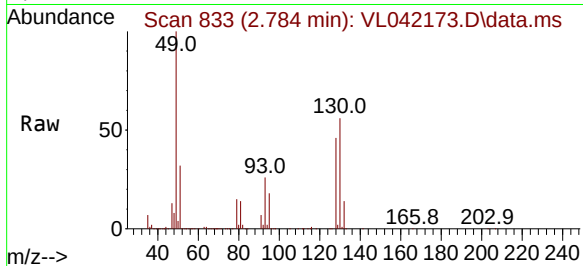
(#) = qualifier out of range (m) = manual integration (+) = signals summed



#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 2.784 min Scan# 81
 Delta R.T. -0.000 min
 Lab File: VL042173.D
 Acq: 27 Mar 2025 08:59

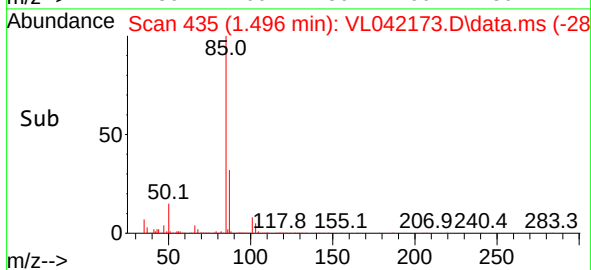
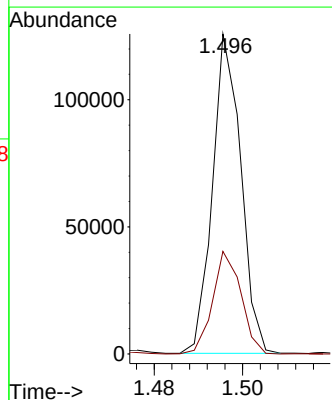
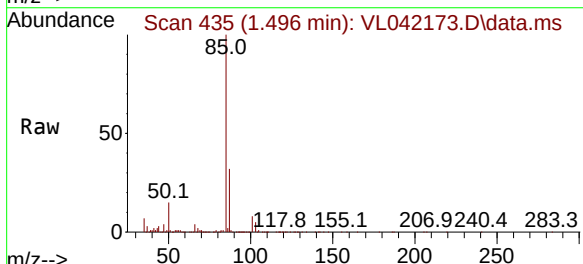
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC002

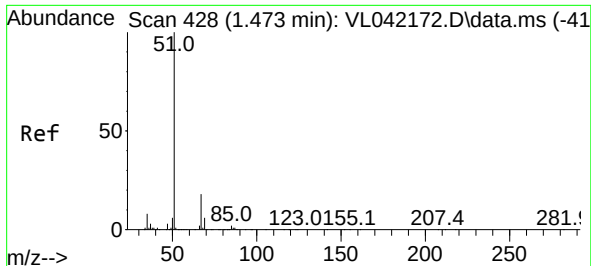
Tgt Ion: 49 Resp: 188395
 Ion Ratio Lower Upper
 49 100
 128 45.7 22.9 68.5
 130 58.5 28.8 86.4



#2
 Dichlorodifluoromethane
 Concen: 2.008 ppbv
 RT: 1.496 min Scan# 435
 Delta R.T. -0.000 min
 Lab File: VL042173.D
 Acq: 27 Mar 2025 08:59

Tgt Ion: 85 Resp: 55859
 Ion Ratio Lower Upper
 85 100
 87 32.1 26.1 39.1

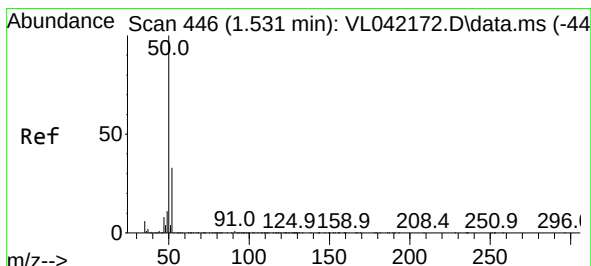
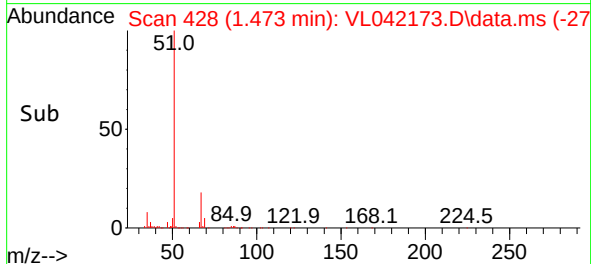
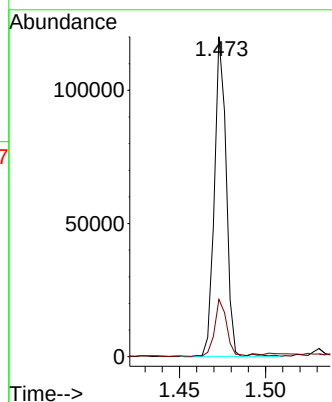
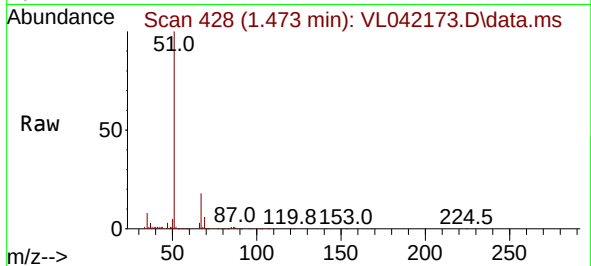




#3
Chlorodifluoromethane
Concen: 2.007 ppbv
RT: 1.473 min Scan# 41
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

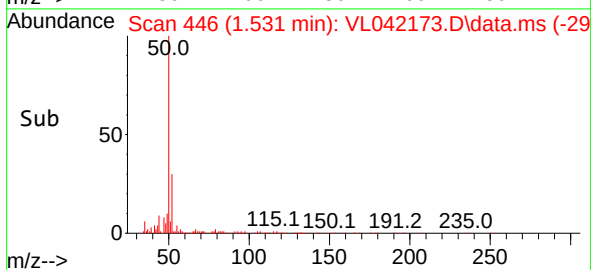
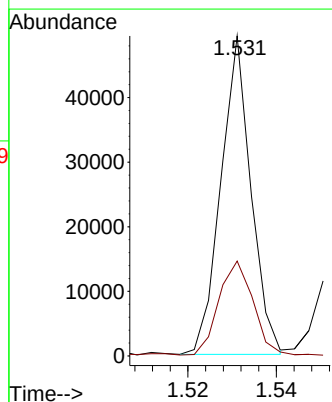
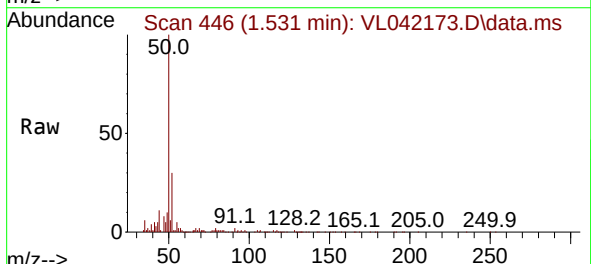
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

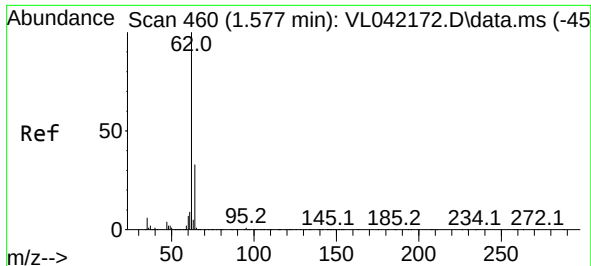
Tgt Ion: 51 Resp: 57045
Ion Ratio Lower Upper
51 100
67 19.4 15.0 22.6



#4
Chloromethane
Concen: 2.049 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

Tgt Ion: 50 Resp: 23293
Ion Ratio Lower Upper
50 100
52 29.5 26.1 39.1

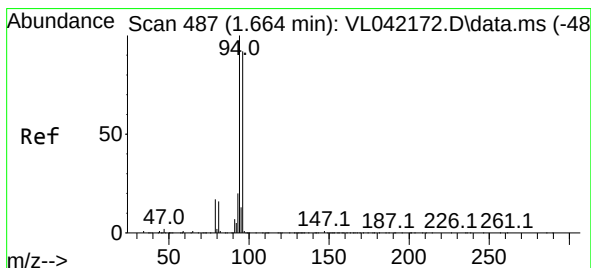
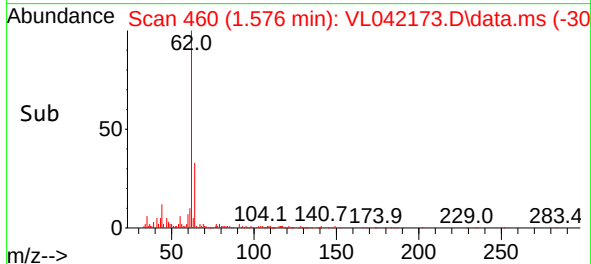
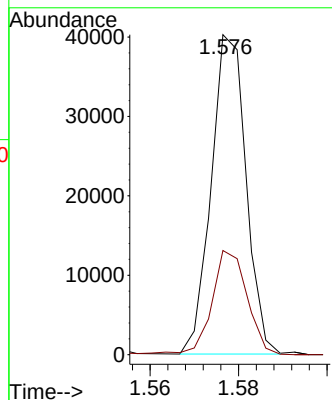
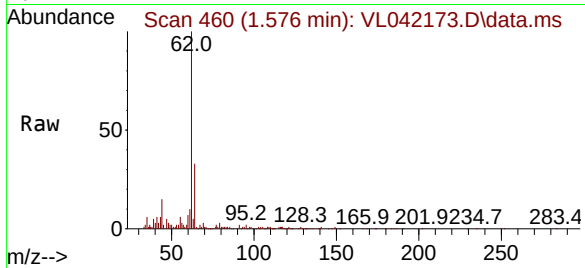




#5
 Vinyl Chloride
 Concen: 1.897 ppbv
 RT: 1.576 min Scan# 460
 Delta R.T. -0.000 min
 Lab File: VL042173.D
 Acq: 27 Mar 2025 08:59

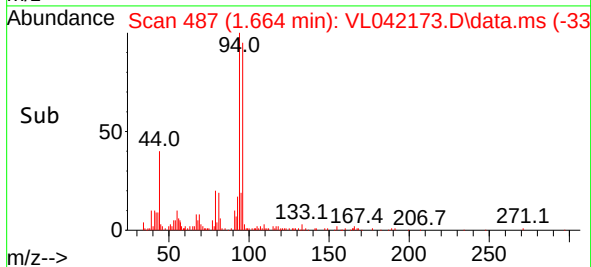
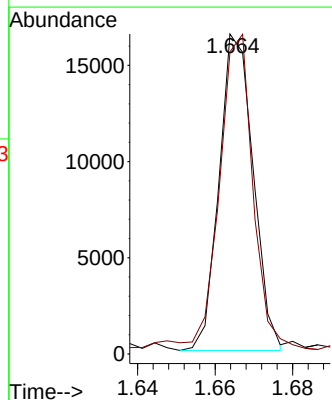
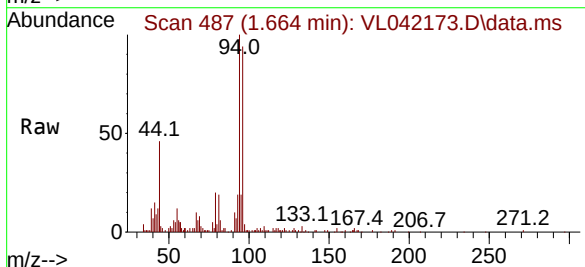
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC002

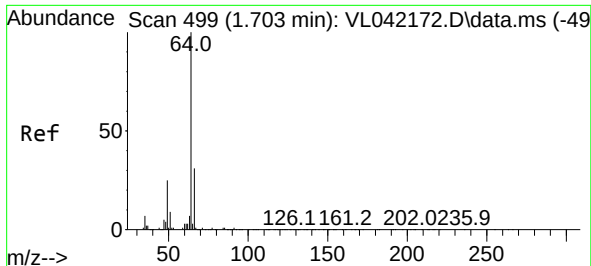
Tgt Ion: 62 Resp: 21989
 Ion Ratio Lower Upper
 62 100
 64 32.5 26.6 40.0



#6
 Bromomethane
 Concen: 1.946 ppbv
 RT: 1.664 min Scan# 487
 Delta R.T. -0.000 min
 Lab File: VL042173.D
 Acq: 27 Mar 2025 08:59

Tgt Ion: 94 Resp: 10027
 Ion Ratio Lower Upper
 94 100
 96 93.6 73.1 109.7

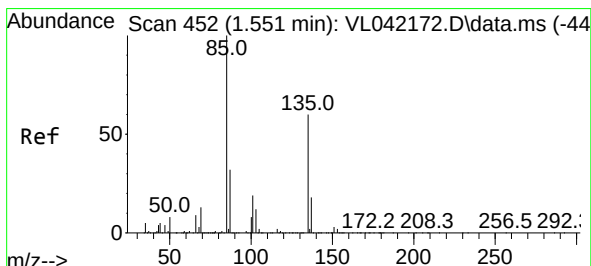
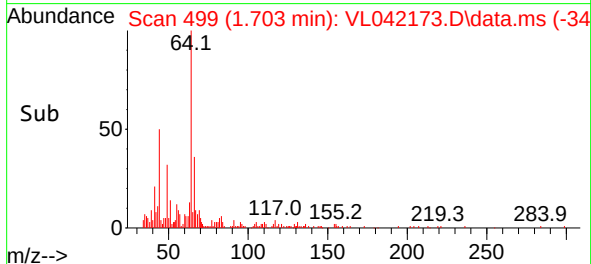
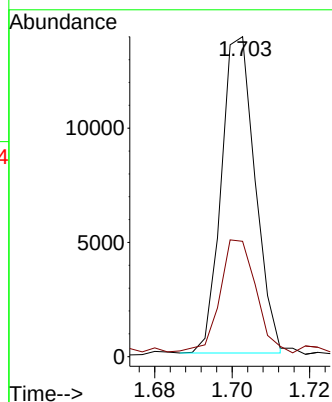
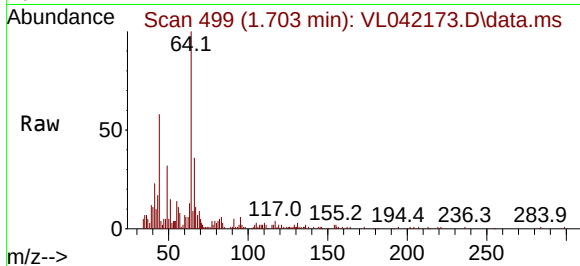




#7
Chloroethane
Concen: 1.844 ppbv
RT: 1.703 min Scan# 499
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

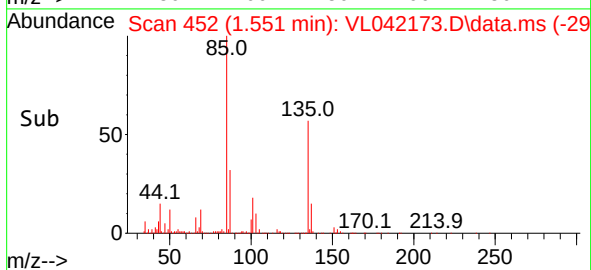
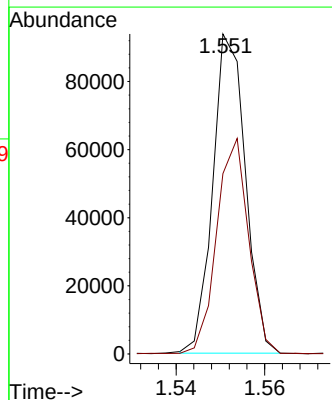
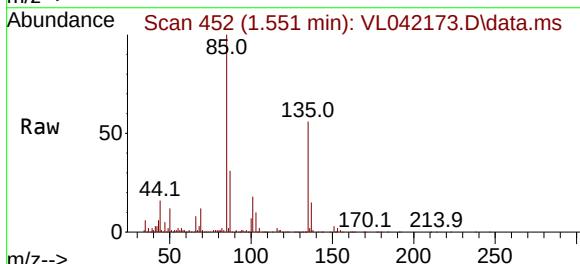
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC002

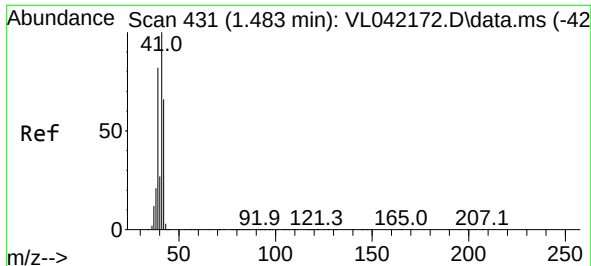
Tgt Ion: 64 Resp: 8413
Ion Ratio Lower Upper
64 100
66 36.1 25.2 37.8



#8
Dichlorotetrafluoroethane
Concen: 2.027 ppbv
RT: 1.551 min Scan# 452
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

Tgt Ion: 85 Resp: 48008
Ion Ratio Lower Upper
85 100
135 66.8 52.4 78.6





#9

Propene

Concen: 2.054 ppbv

RT: 1.483 min Scan# 41

Delta R.T. -0.000 min

Lab File: VL042173.D

Acq: 27 Mar 2025 08:59

Instrument :

MSVOA_1

ClientSampleId :

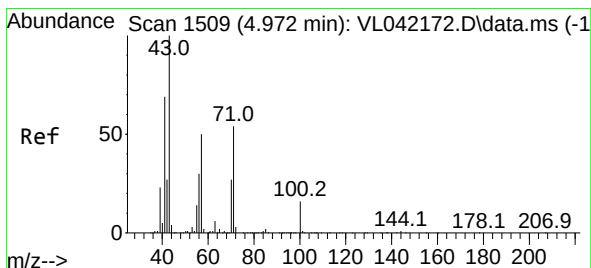
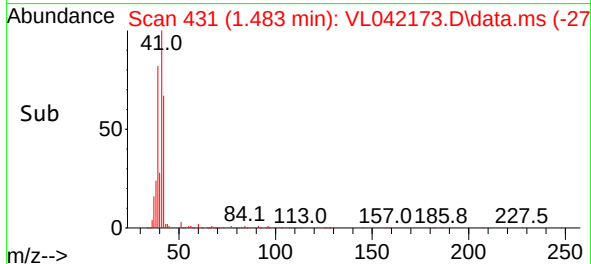
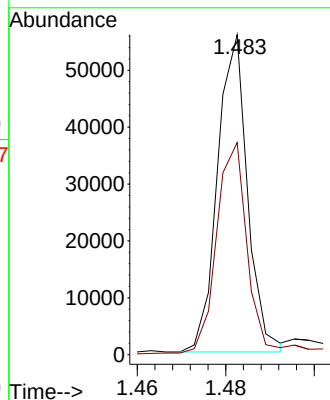
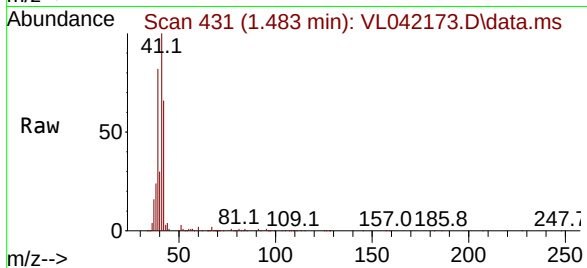
VSTDICC002

Tgt Ion: 41 Resp: 26295

Ion Ratio Lower Upper

41 100

42 73.9 55.4 83.2



#10

Heptane

Concen: 2.063 ppbv

RT: 4.972 min Scan# 1509

Delta R.T. -0.000 min

Lab File: VL042173.D

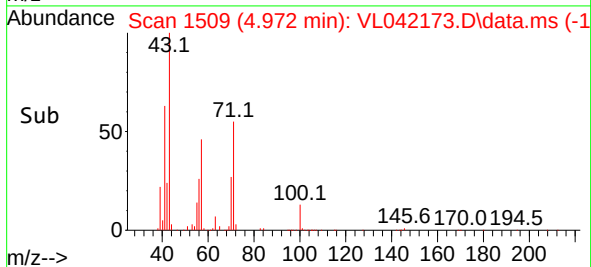
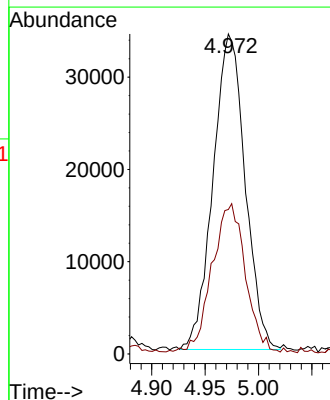
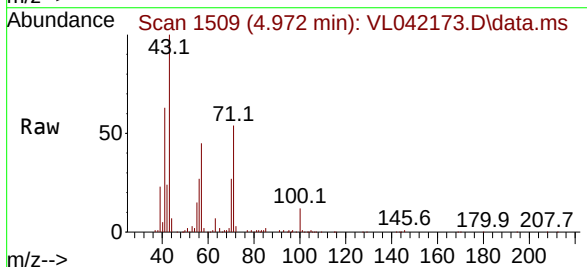
Acq: 27 Mar 2025 08:59

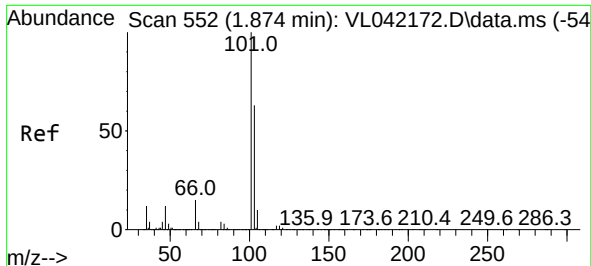
Tgt Ion: 43 Resp: 71466

Ion Ratio Lower Upper

43 100

57 49.6 39.4 59.2

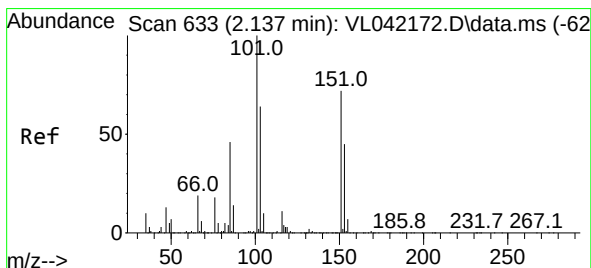
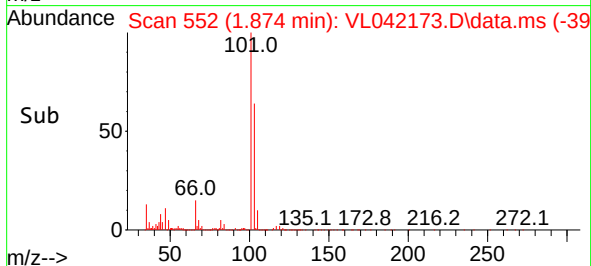
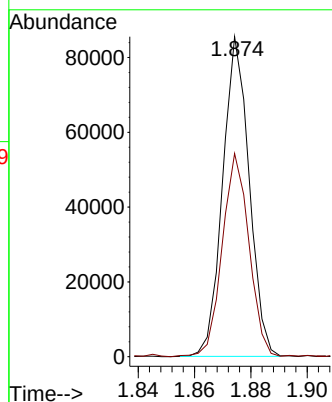
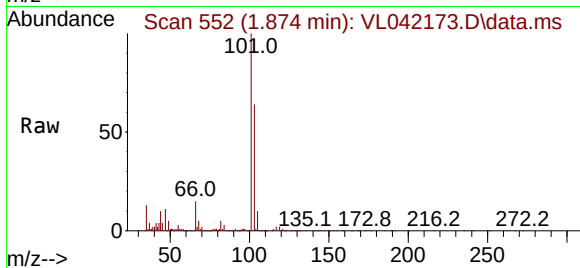




#11
 Trichlorofluoromethane
 Concen: 2.060 ppbv
 RT: 1.874 min Scan# 552
 Delta R.T. -0.000 min
 Lab File: VL042173.D
 Acq: 27 Mar 2025 08:59

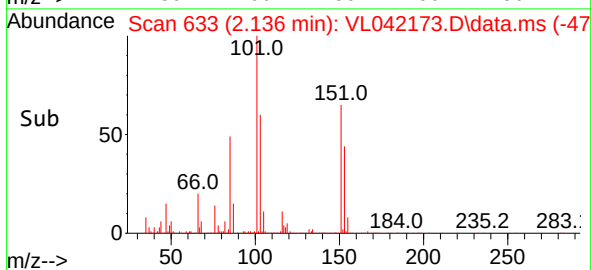
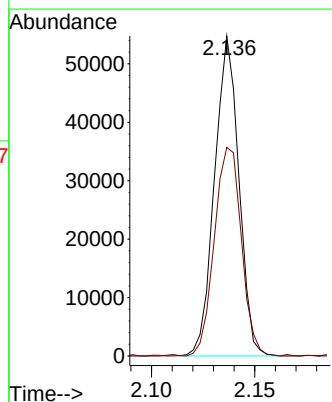
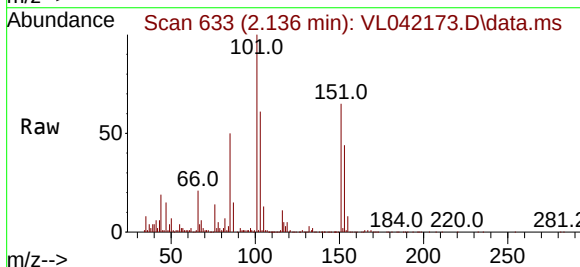
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC002

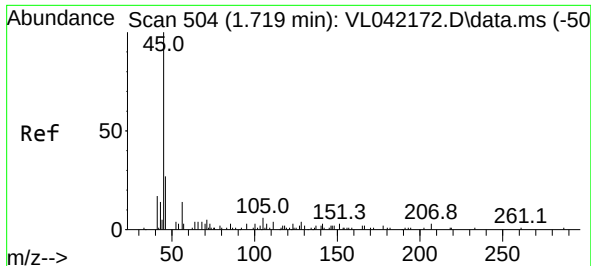
Tgt Ion:101 Resp: 55754
 Ion Ratio Lower Upper
 101 100
 103 63.5 50.2 75.2



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 2.012 ppbv
 RT: 2.136 min Scan# 633
 Delta R.T. -0.000 min
 Lab File: VL042173.D
 Acq: 27 Mar 2025 08:59

Tgt Ion:101 Resp: 44761
 Ion Ratio Lower Upper
 101 100
 151 73.0 57.1 85.7

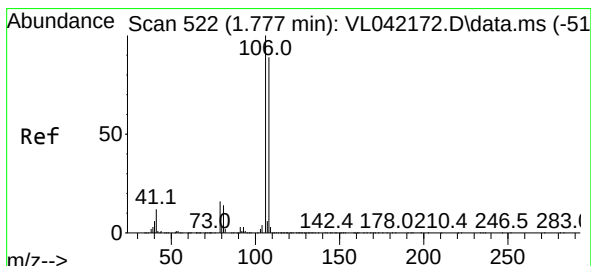
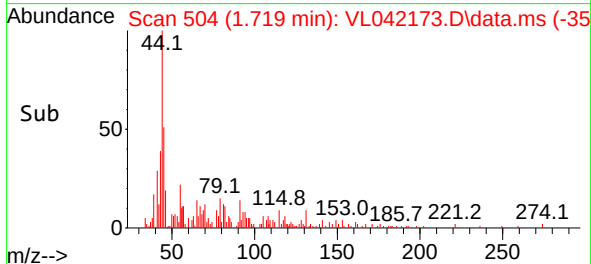
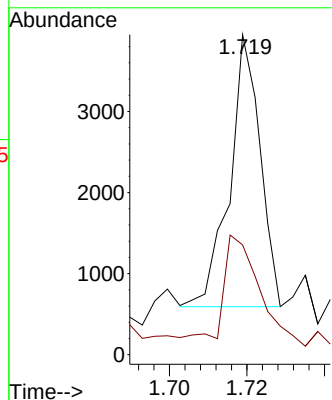
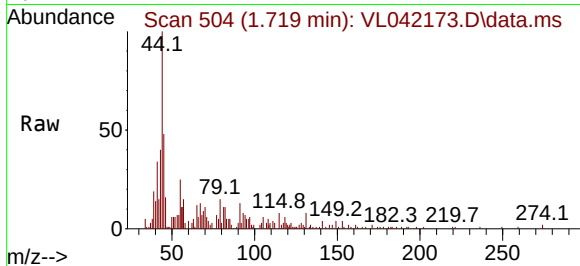




#13
Ethanol
Concen: 1.822 ppbv
RT: 1.719 min Scan# 504
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

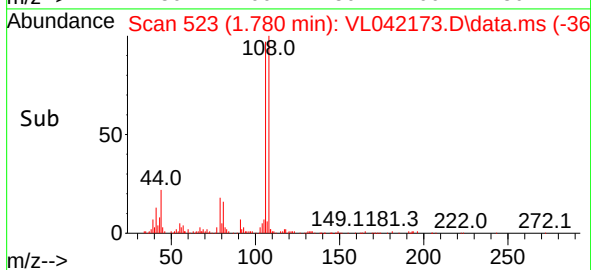
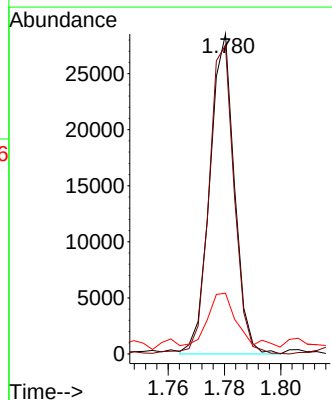
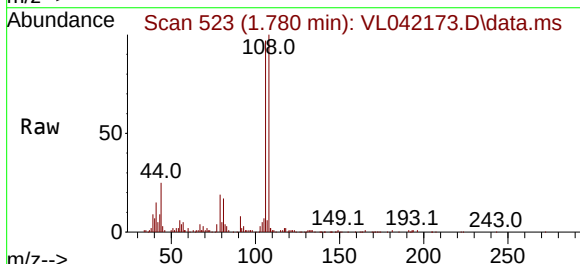
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC002

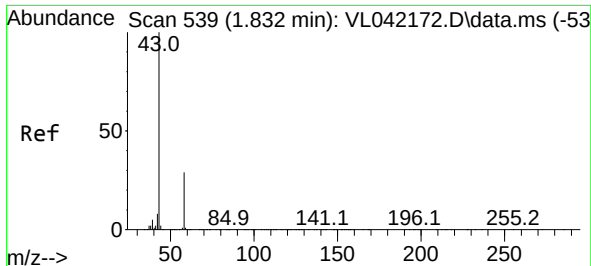
Tgt Ion: 45 Resp: 1827
Ion Ratio Lower Upper
45 100
46 85.6 20.2 80.8#



#14
Bromoethene
Concen: 2.033 ppbv
RT: 1.780 min Scan# 523
Delta R.T. 0.003 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

Tgt Ion: 108 Resp: 17323
Ion Ratio Lower Upper
108 100
106 100.6 86.8 130.2
79 32.0 15.0 22.6#





#15

Acetone

Concen: 2.101 ppbv

RT: 1.832 min Scan# 51

Delta R.T. -0.000 min

Lab File: VL042173.D

Acq: 27 Mar 2025 08:59

Instrument :

MSVOA_L

ClientSampleId :

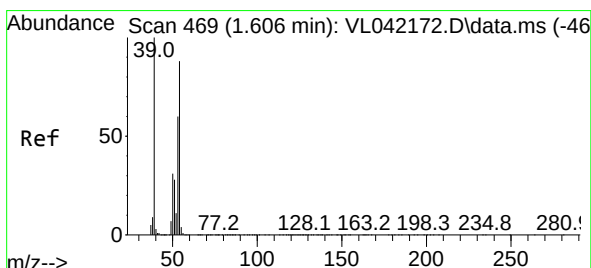
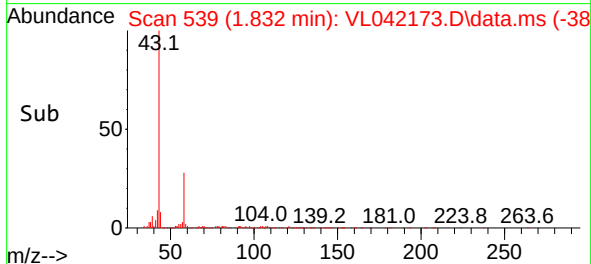
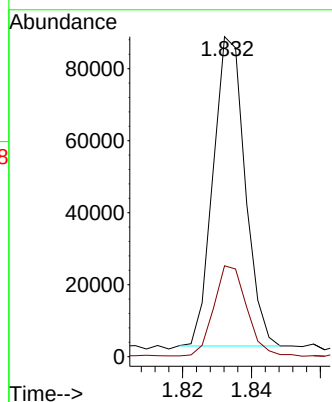
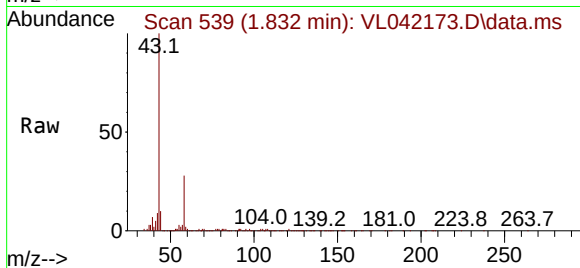
VSTDICC002

Tgt Ion: 43 Resp: 55365

Ion Ratio Lower Upper

43 100

58 31.8 23.2 34.8



#16

1,3-Butadiene

Concen: 1.932 ppbv

RT: 1.606 min Scan# 469

Delta R.T. -0.000 min

Lab File: VL042173.D

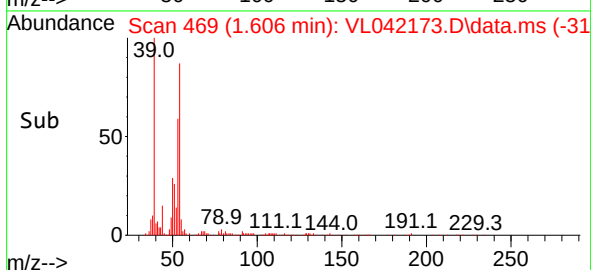
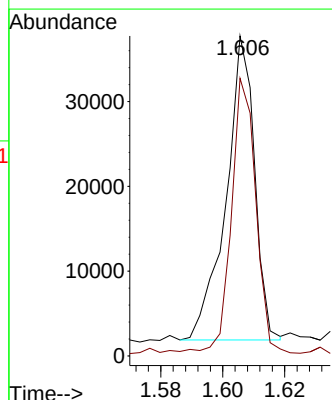
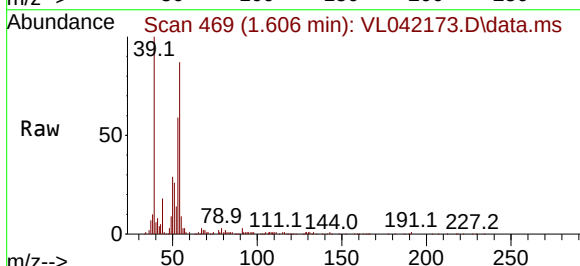
Acq: 27 Mar 2025 08:59

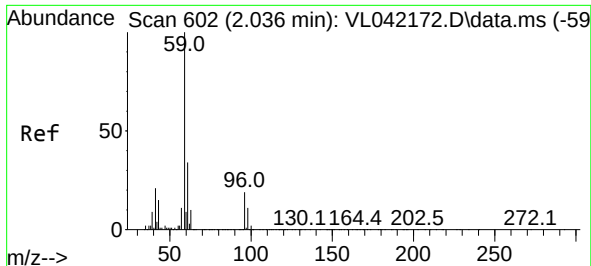
Tgt Ion: 39 Resp: 22894

Ion Ratio Lower Upper

39 100

54 79.9 60.7 91.1





#17

tert-Butyl alcohol

Concen: 2.016 ppbv

RT: 2.039 min Scan# 60

Delta R.T. 0.003 min

Lab File: VL042173.D

Acq: 27 Mar 2025 08:59

Instrument :

MSVOA_L

ClientSampleId :

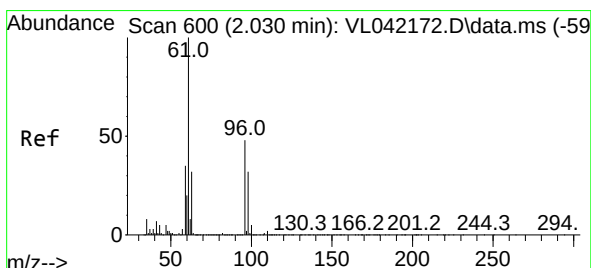
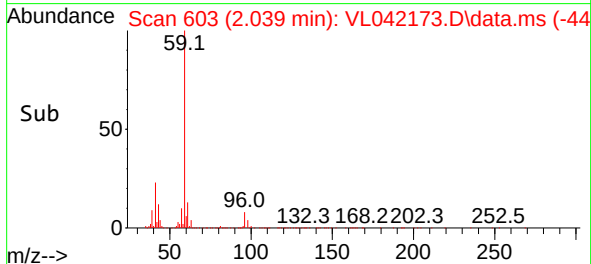
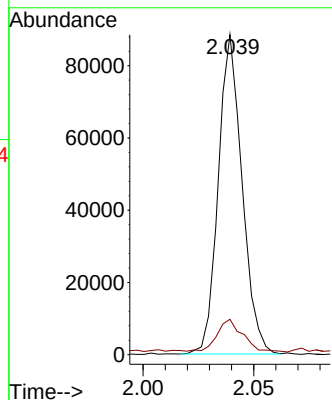
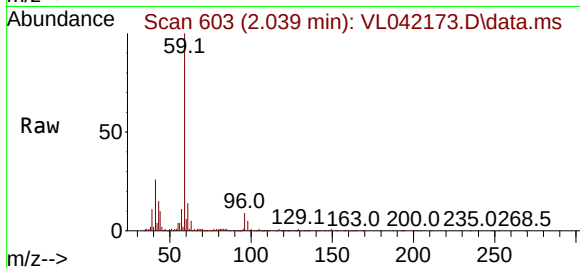
VSTDICC002

Tgt Ion: 59 Resp: 66174

Ion Ratio Lower Upper

59 100

57 11.2 8.9 13.3



#18

1,1-Dichloroethene

Concen: 2.029 ppbv

RT: 2.030 min Scan# 600

Delta R.T. -0.000 min

Lab File: VL042173.D

Acq: 27 Mar 2025 08:59

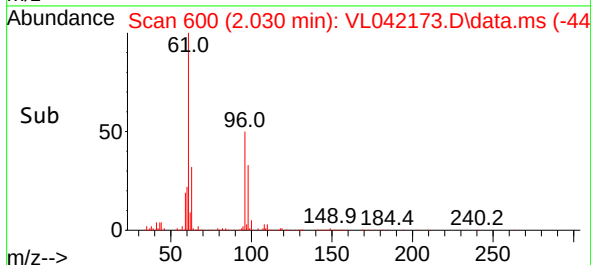
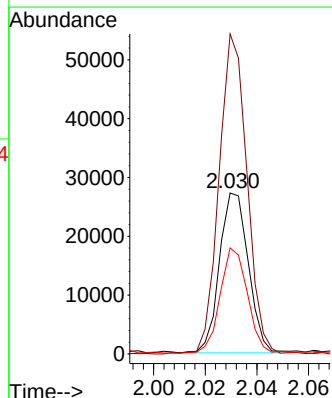
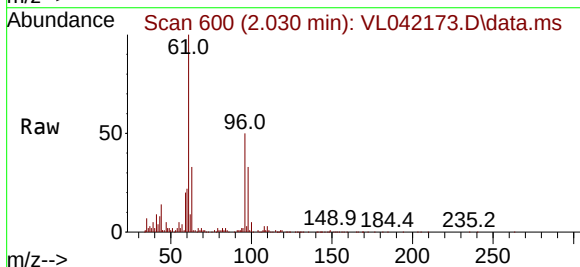
Tgt Ion: 96 Resp: 21103

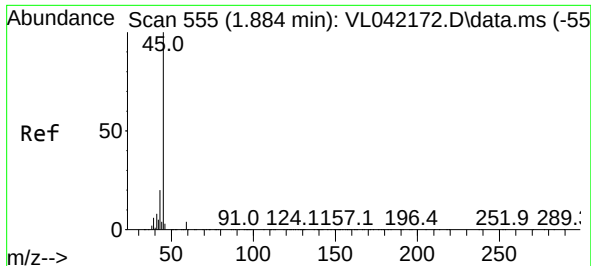
Ion Ratio Lower Upper

96 100

61 199.8 167.6 251.4

98 66.0 53.5 80.3

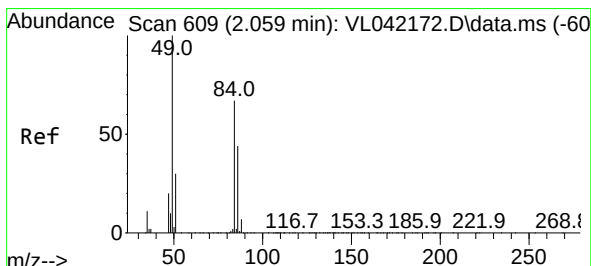
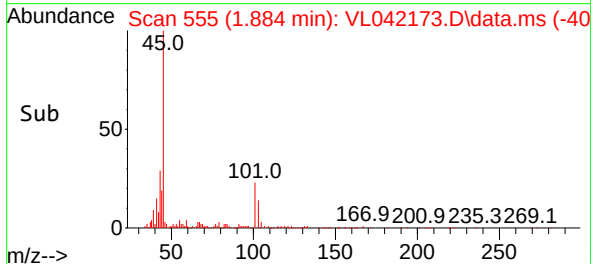
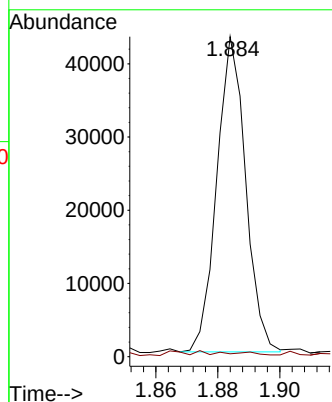
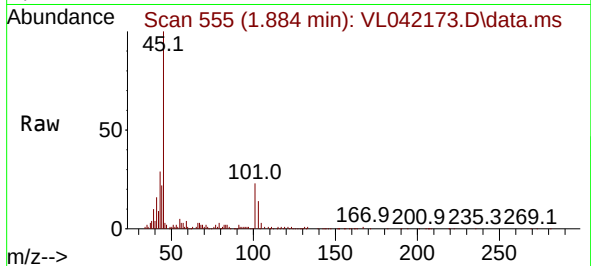




#19
Isopropyl Alcohol
Concen: 1.870 ppbv
RT: 1.884 min Scan# 51
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

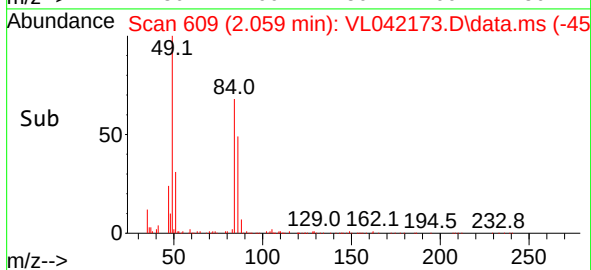
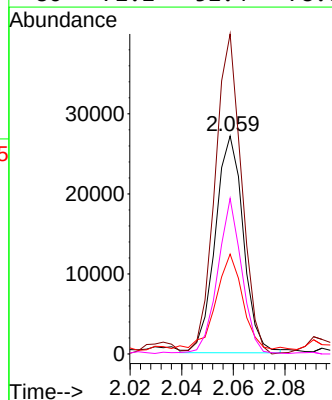
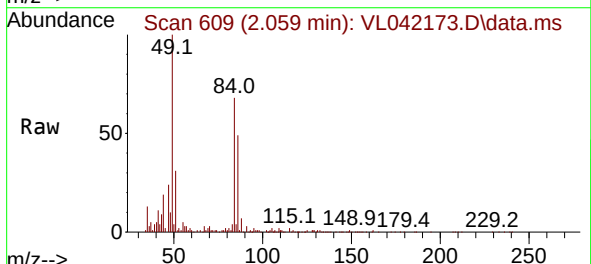
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

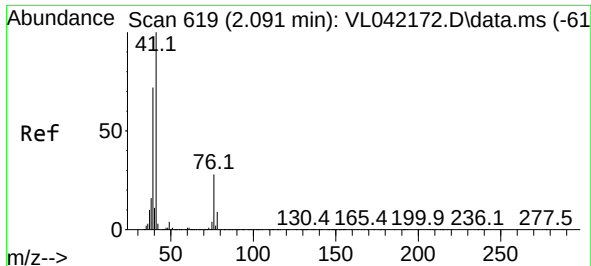
Tgt Ion: 45 Resp: 27804
Ion Ratio Lower Upper
45 100
58 3.3 36.9 55.3#



#20
Methylene Chloride
Concen: 2.091 ppbv
RT: 2.059 min Scan# 609
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

Tgt Ion: 84 Resp: 20518
Ion Ratio Lower Upper
84 100
49 148.8 120.2 180.4
51 43.5 37.4 56.0
86 72.2 52.4 78.6

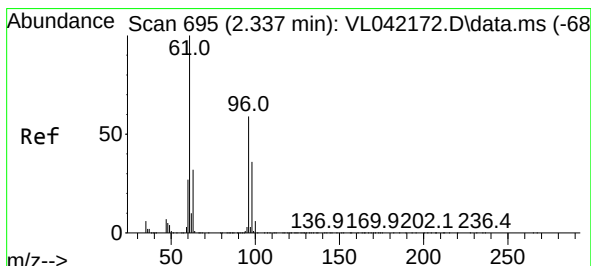
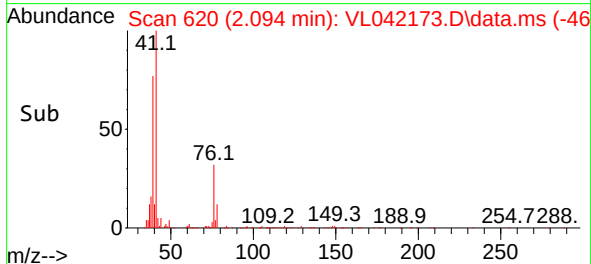
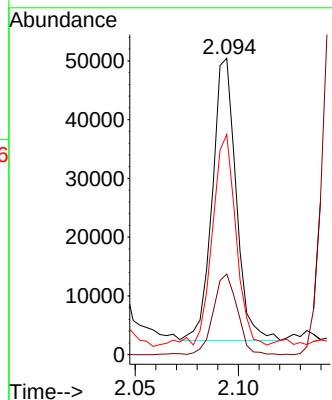
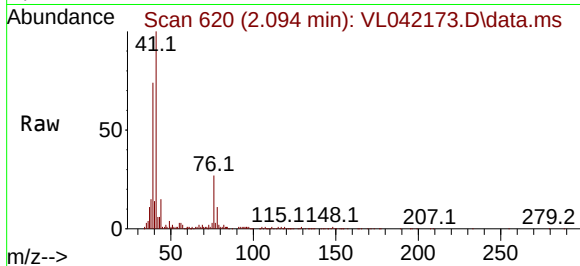




#21
 Allyl Chloride
 Concen: 2.068 ppbv
 RT: 2.094 min Scan# 619
 Delta R.T. 0.003 min
 Lab File: VL042173.D
 Acq: 27 Mar 2025 08:59

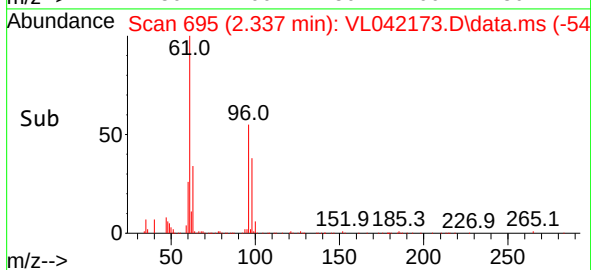
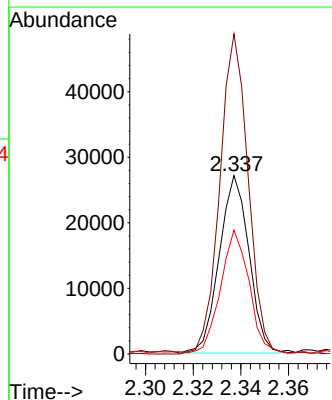
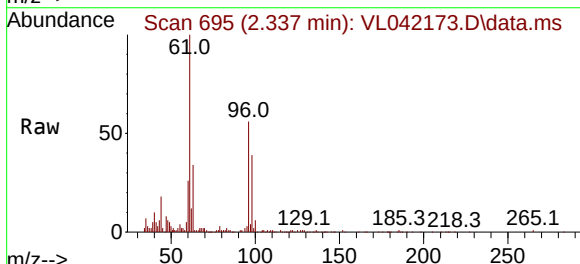
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

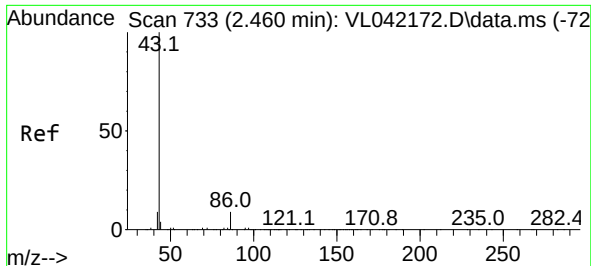
Tgt Ion: 41 Resp: 38425
 Ion Ratio Lower Upper
 41 100
 76 29.0 24.1 36.1
 39 77.5 61.1 91.7



#22
 trans-1,2-Dichloroethene
 Concen: 1.924 ppbv
 RT: 2.337 min Scan# 695
 Delta R.T. -0.000 min
 Lab File: VL042173.D
 Acq: 27 Mar 2025 08:59

Tgt Ion: 96 Resp: 23384
 Ion Ratio Lower Upper
 96 100
 61 180.3 136.6 204.8
 98 68.6 49.4 74.2



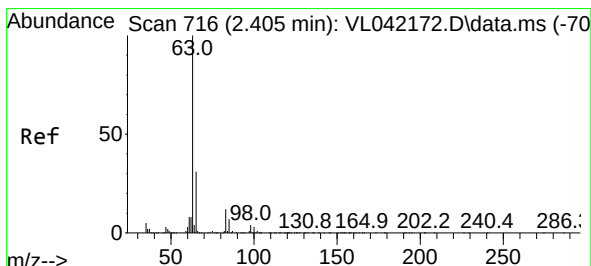
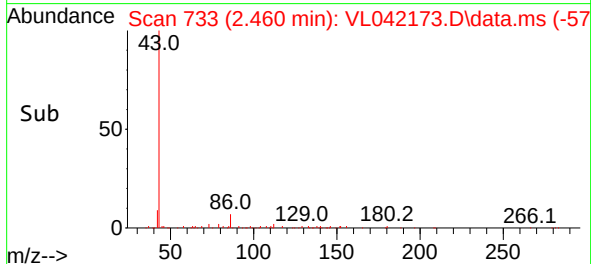
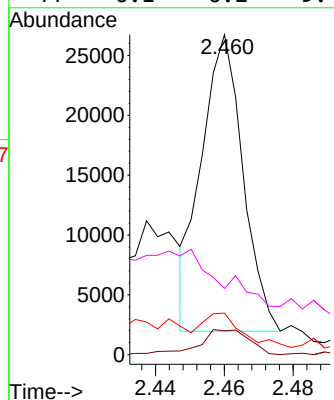
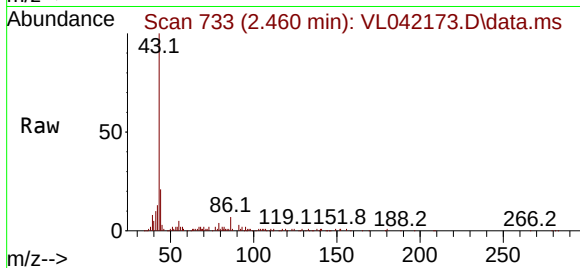


#23
 Vinyl Acetate
 Concen: 1.894 ppbv
 RT: 2.460 min Scan# 716
 Delta R.T. -0.000 min
 Lab File: VL042173.D
 Acq: 27 Mar 2025 08:59

Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC002

Tgt Ion: 43 Resp: 20736

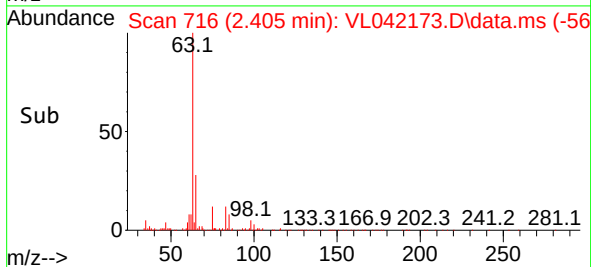
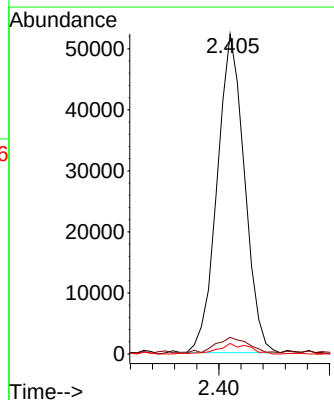
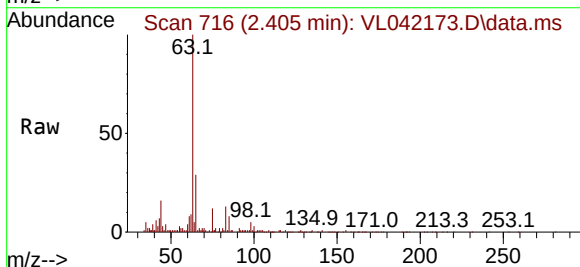
Ion	Ratio	Lower	Upper
43	100		
86	8.1	5.5	8.3
42	10.4	8.6	13.0
44	6.1	6.2	9.4

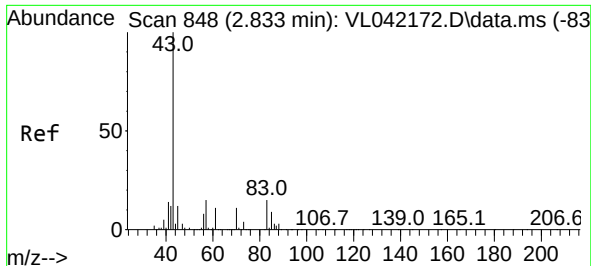


#24
 1,1-Dichloroethane
 Concen: 2.008 ppbv
 RT: 2.405 min Scan# 716
 Delta R.T. -0.000 min
 Lab File: VL042173.D
 Acq: 27 Mar 2025 08:59

Tgt Ion: 63 Resp: 44740

Ion	Ratio	Lower	Upper
63	100		
98	4.9	2.3	6.8
100	3.3	1.6	4.7



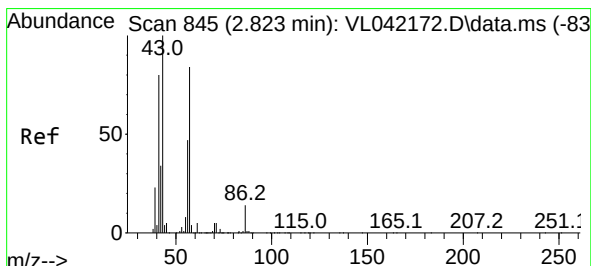
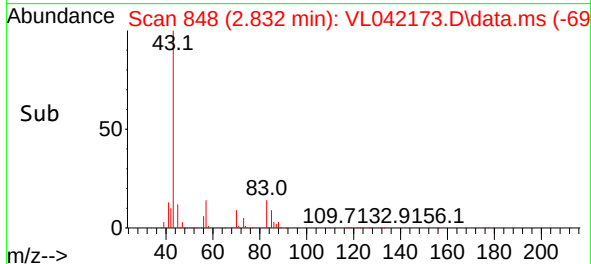
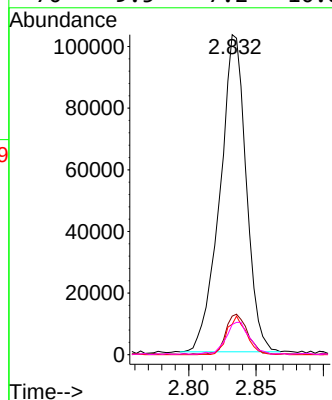
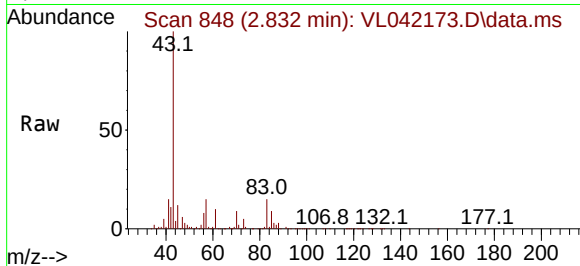


#25
Ethyl Acetate
Concen: 2.040 ppbv
RT: 2.832 min Scan# 848
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

Instrument :
MSVOA_1
ClientSampleId :
VSTDIC002

Tgt Ion: 43 Resp: 139516

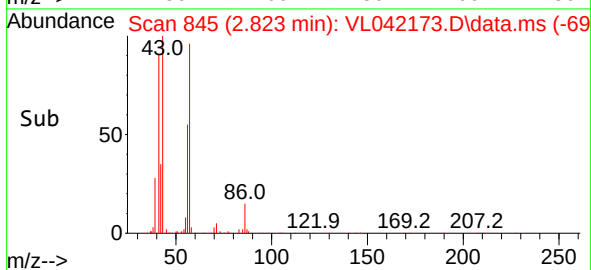
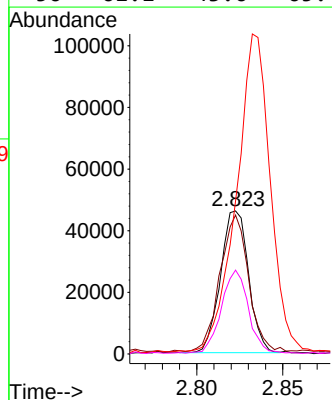
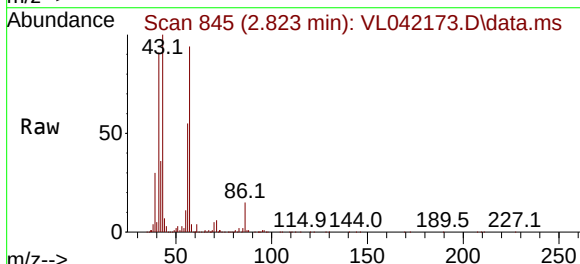
Ion	Ratio	Lower	Upper
43	100		
45	10.9	8.2	12.2
61	9.1	7.3	10.9
70	9.5	7.2	10.8

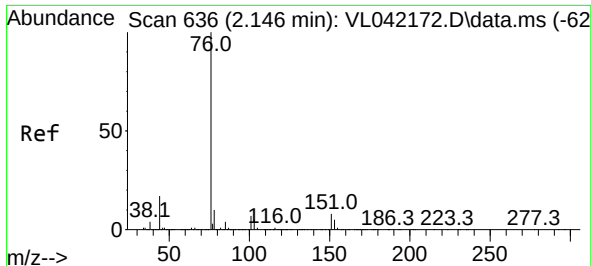


#26
Hexane
Concen: 1.972 ppbv
RT: 2.823 min Scan# 845
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

Tgt Ion: 57 Resp: 52095

Ion	Ratio	Lower	Upper
57	100		
41	100.9	76.6	114.8
43	274.8	207.8	311.8
56	61.1	43.6	65.4





#27

Carbon Disulfide

Concen: 2.047 ppbv

RT: 2.146 min Scan# 61

Delta R.T. -0.000 min

Lab File: VL042173.D

Acq: 27 Mar 2025 08:59

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC002

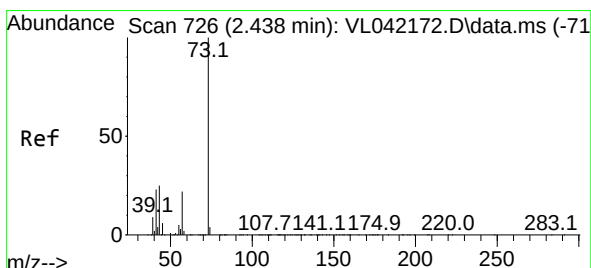
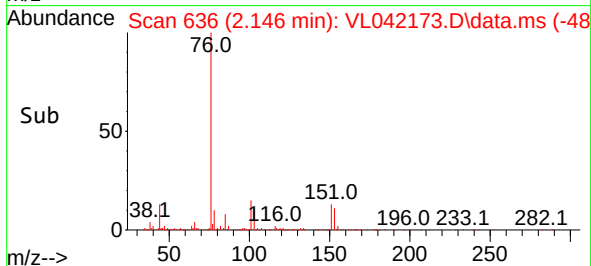
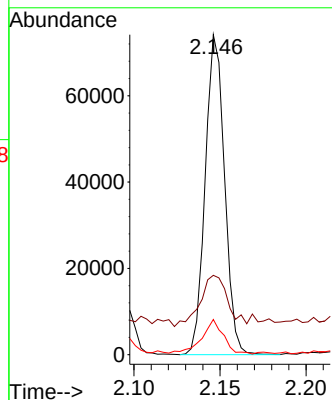
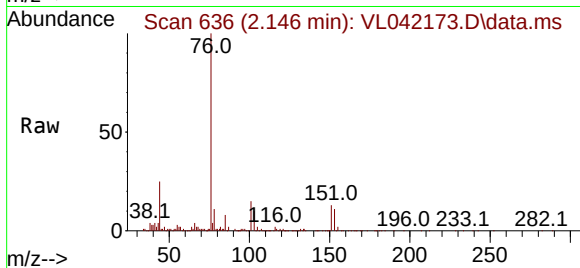
Tgt Ion: 76 Resp: 57969

Ion Ratio Lower Upper

76 100

44 35.2 14.7 22.1#

78 12.0 9.3 13.9



#28

Methyl tert-Butyl Ether

Concen: 2.049 ppbv

RT: 2.437 min Scan# 726

Delta R.T. -0.000 min

Lab File: VL042173.D

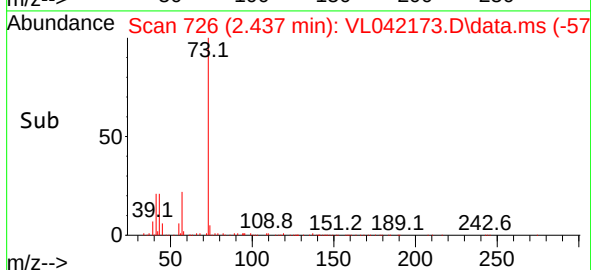
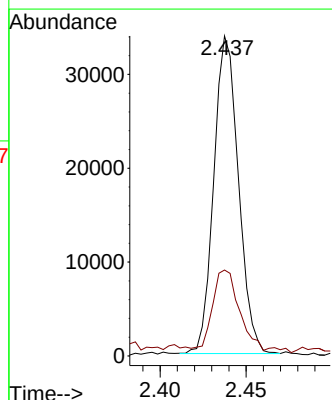
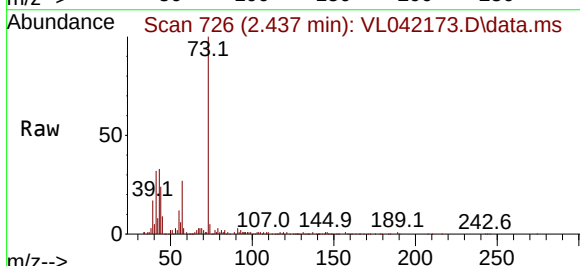
Acq: 27 Mar 2025 08:59

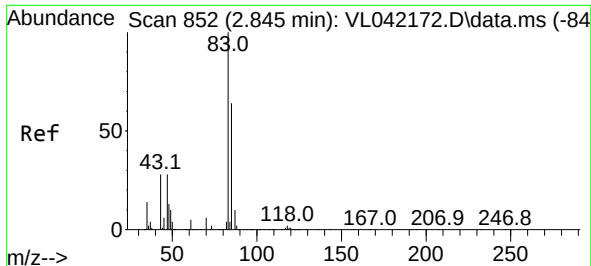
Tgt Ion: 73 Resp: 33703

Ion Ratio Lower Upper

73 100

57 25.2 20.5 30.7





#29

Chloroform

Concen: 2.019 ppbv

RT: 2.845 min Scan# 81

Delta R.T. -0.000 min

Lab File: VL042173.D

Acq: 27 Mar 2025 08:59

Instrument :

MSVOA_L

ClientSampleId :

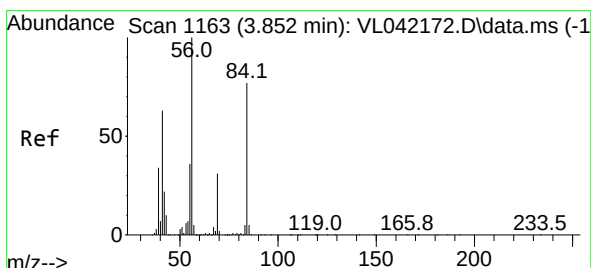
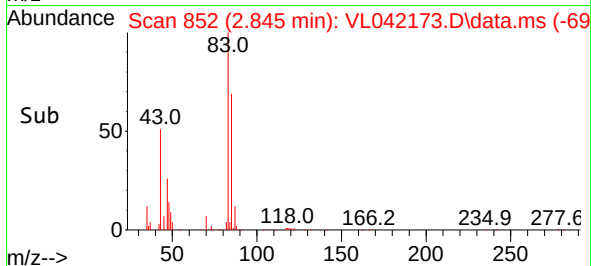
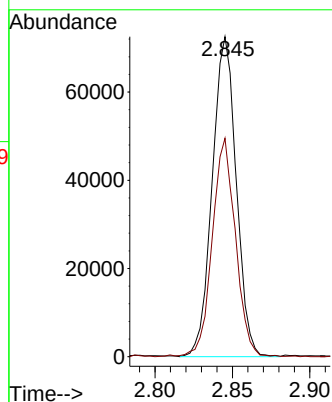
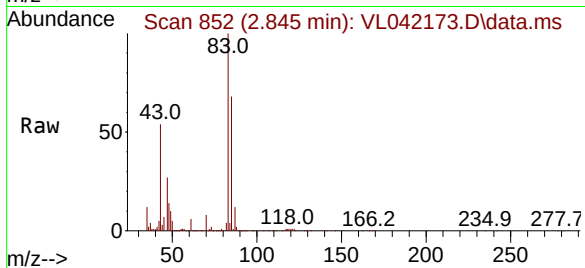
VSTDIC002

Tgt Ion: 83 Resp: 78043

Ion Ratio Lower Upper

83 100

85 68.2 51.4 77.2



#30

Cyclohexane

Concen: 1.989 ppbv

RT: 3.852 min Scan# 1163

Delta R.T. -0.000 min

Lab File: VL042173.D

Acq: 27 Mar 2025 08:59

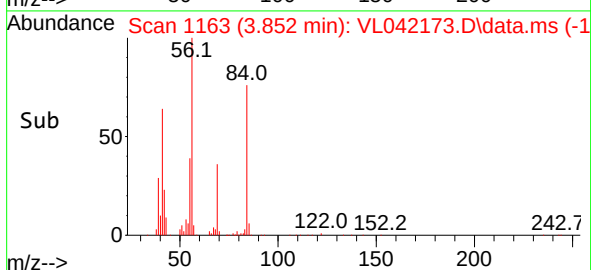
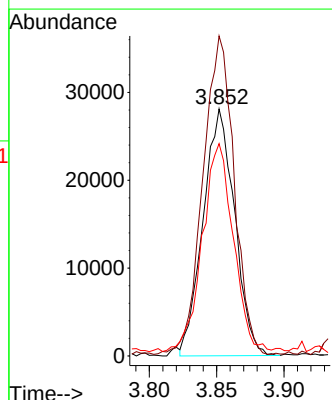
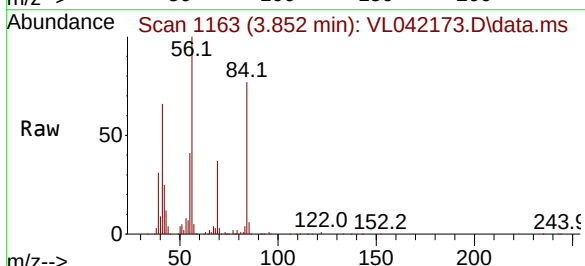
Tgt Ion: 84 Resp: 45641

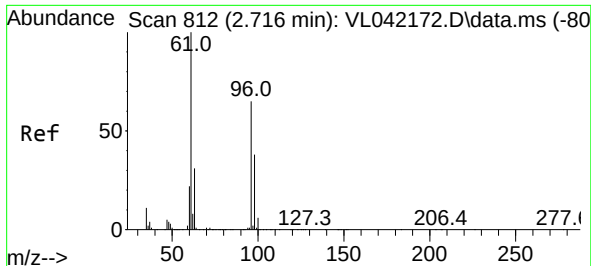
Ion Ratio Lower Upper

84 100

56 127.8 102.8 154.2

41 84.6 66.5 99.7

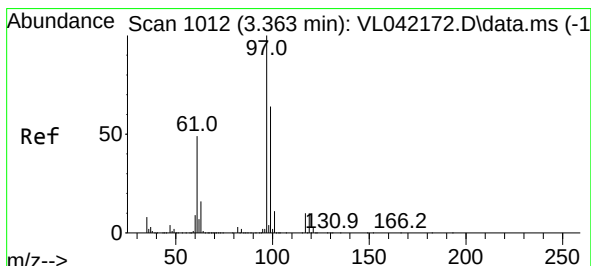
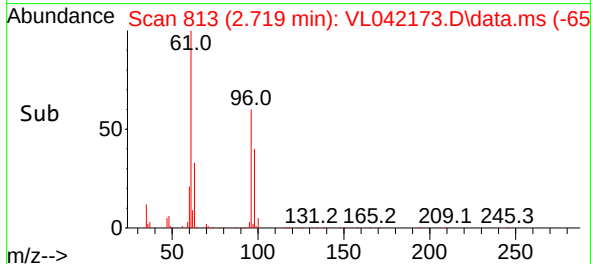
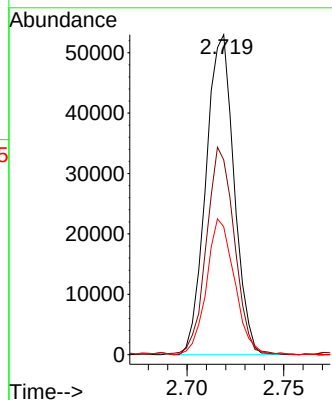
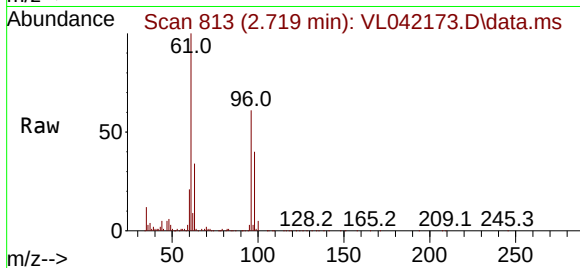




#31
 cis-1,2-Dichloroethene
 Concen: 2.003 ppbv
 RT: 2.719 min Scan# 812
 Delta R.T. 0.003 min
 Lab File: VL042173.D
 Acq: 27 Mar 2025 08:59

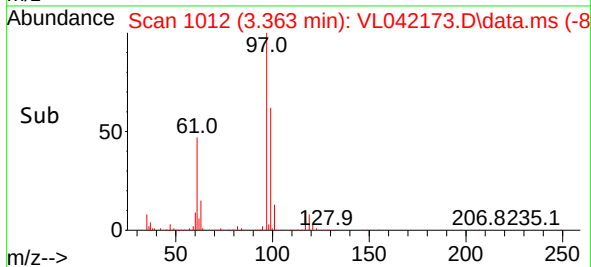
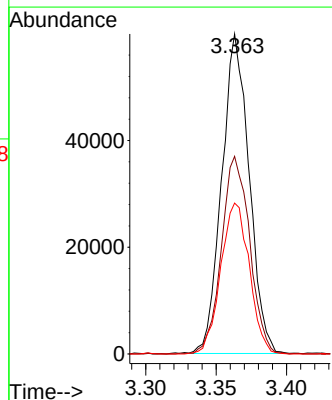
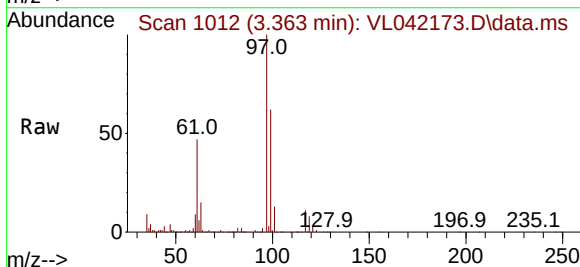
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

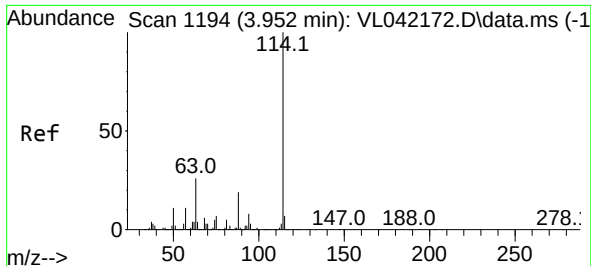
Tgt Ion: 61 Resp: 53713
 Ion Ratio Lower Upper
 61 100
 96 60.6 51.8 77.8
 98 39.6 30.6 46.0



#32
 1,1,1-Trichloroethane
 Concen: 1.833 ppbv
 RT: 3.363 min Scan# 1012
 Delta R.T. -0.000 min
 Lab File: VL042173.D
 Acq: 27 Mar 2025 08:59

Tgt Ion: 97 Resp: 81070
 Ion Ratio Lower Upper
 97 100
 99 63.9 51.5 77.3
 61 49.3 38.7 58.1





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.952 min Scan# 1194

Delta R.T. -0.000 min

Lab File: VL042173.D

Acq: 27 Mar 2025 08:59

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

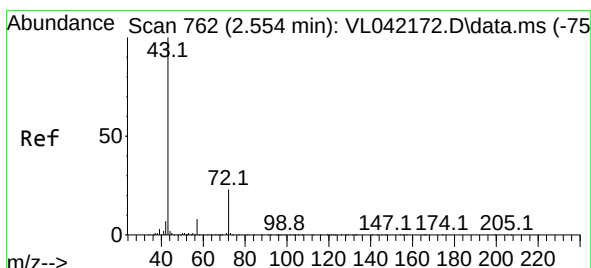
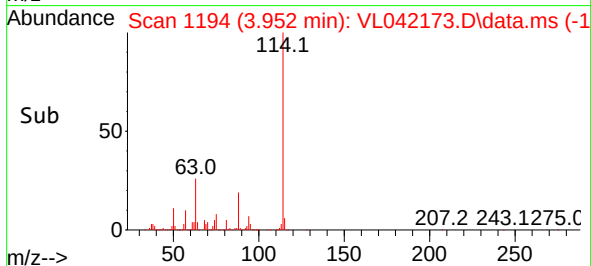
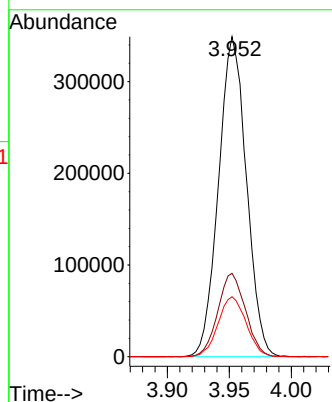
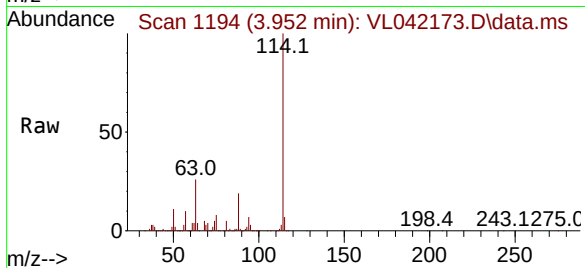
Tgt Ion:114 Resp: 546394

Ion Ratio Lower Upper

114 100

63 25.9 20.7 31.1

88 18.9 15.0 22.4



#34

2-Butanone

Concen: 2.124 ppbv

RT: 2.554 min Scan# 762

Delta R.T. -0.000 min

Lab File: VL042173.D

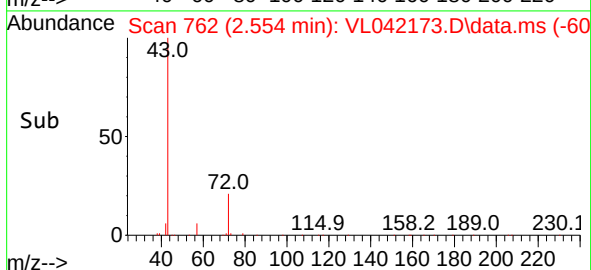
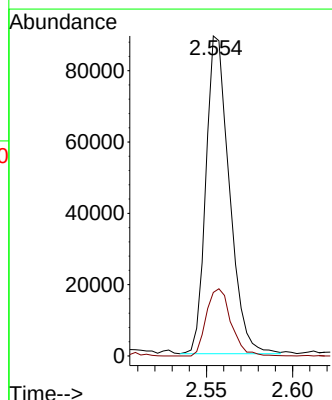
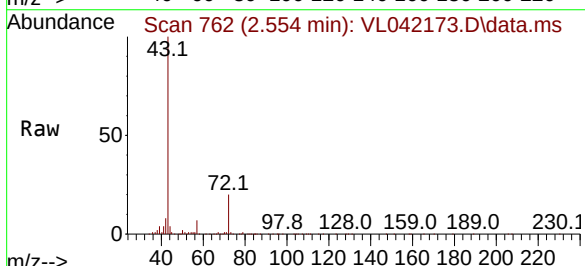
Acq: 27 Mar 2025 08:59

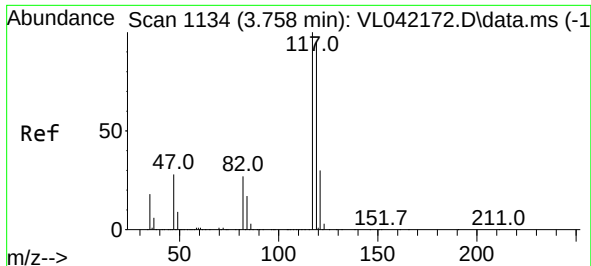
Tgt Ion: 43 Resp: 84157

Ion Ratio Lower Upper

43 100

72 22.4 18.2 27.2

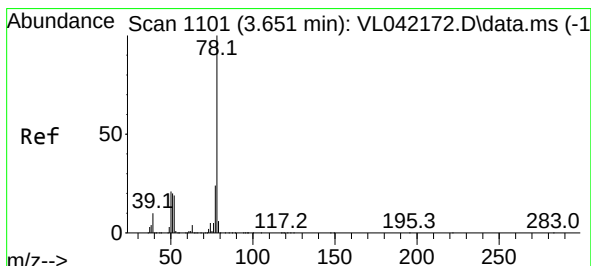
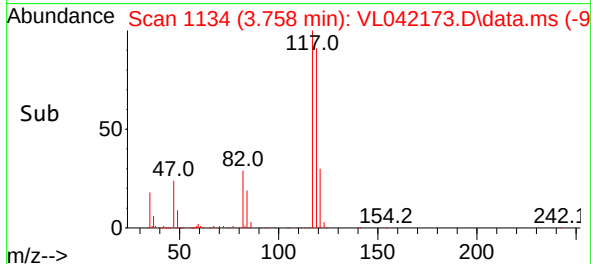
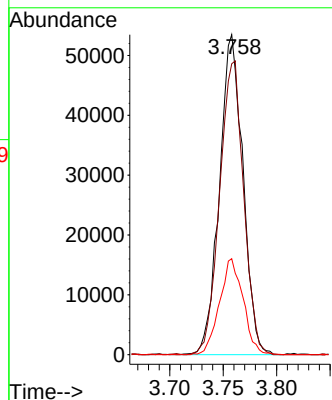
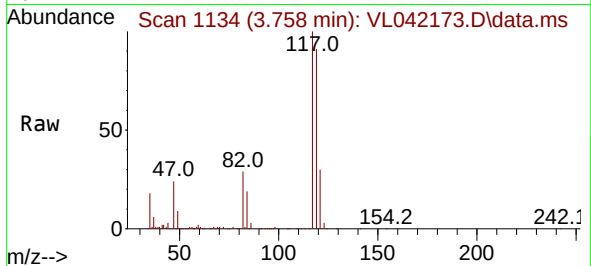




#35
Carbon Tetrachloride
Concen: 1.944 ppbv
RT: 3.758 min Scan# 1134
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

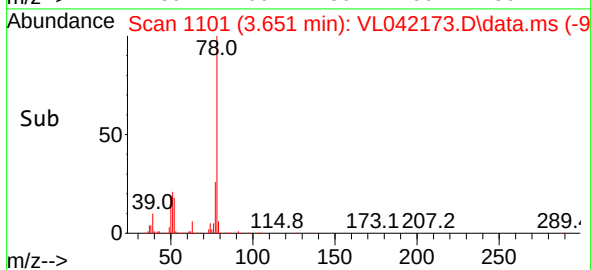
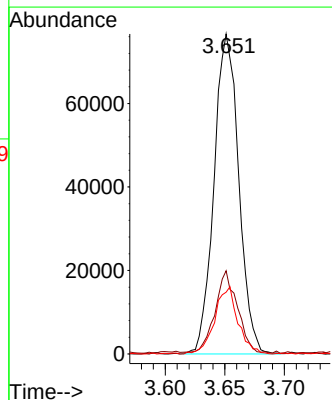
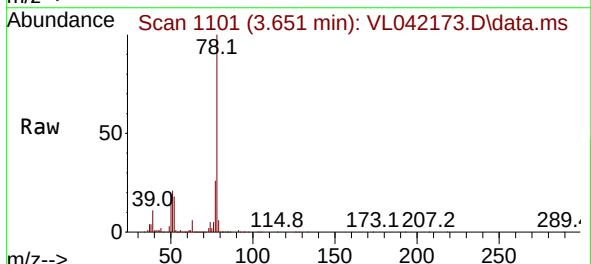
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

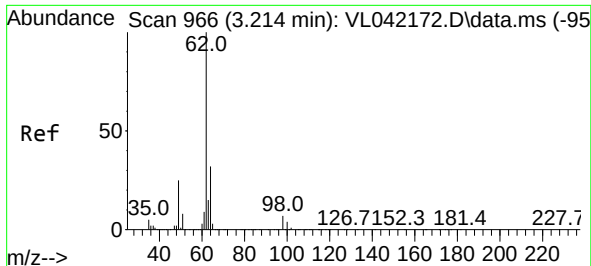
Tgt Ion:117 Resp: 81735
Ion Ratio Lower Upper
117 100
119 90.8 76.2 114.2
121 30.0 24.2 36.4



#36
Benzene
Concen: 2.044 ppbv
RT: 3.651 min Scan# 1101
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

Tgt Ion: 78 Resp: 110727
Ion Ratio Lower Upper
78 100
77 25.7 19.1 28.7
50 19.3 16.6 24.8

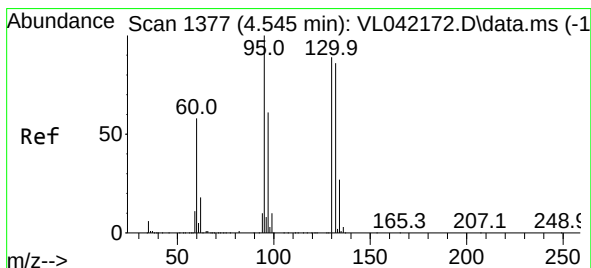
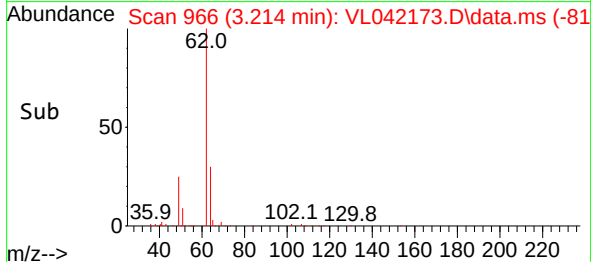
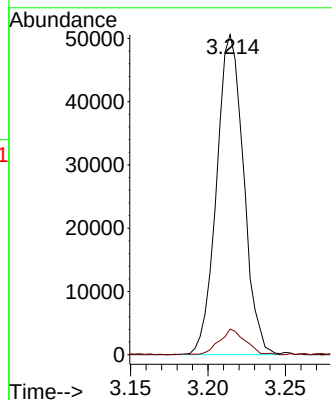
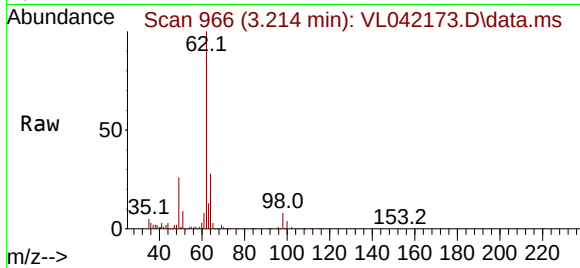




#37
1,2-Dichloroethane
Concen: 1.982 ppbv
RT: 3.214 min Scan# 966
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

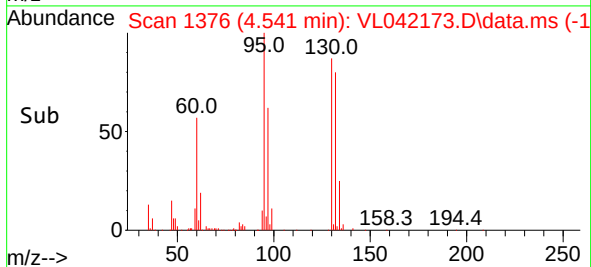
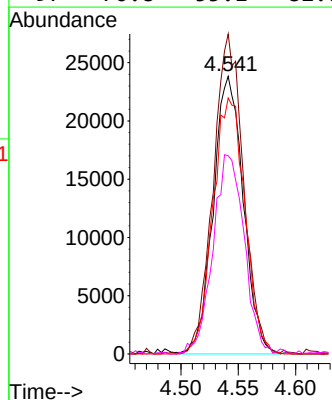
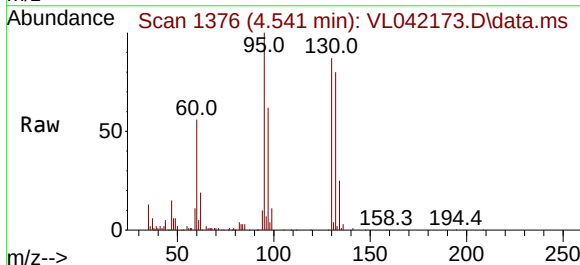
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

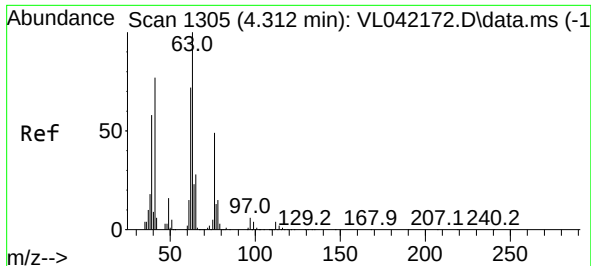
Tgt Ion: 62 Resp: 61476
Ion Ratio Lower Upper
62 100
98 7.7 5.4 8.2



#38
Trichloroethene
Concen: 1.924 ppbv
RT: 4.541 min Scan# 1376
Delta R.T. -0.003 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

Tgt Ion:130 Resp: 43501
Ion Ratio Lower Upper
130 100
95 114.8 89.8 134.8
132 92.2 77.4 116.2
97 70.8 55.1 82.7





#39

1,2-Dichloropropane

Concen: 2.023 ppbv

RT: 4.308 min Scan# 11

Delta R.T. -0.003 min

Lab File: VL042173.D

Acq: 27 Mar 2025 08:59

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC002

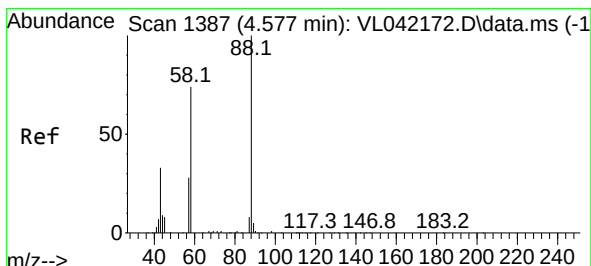
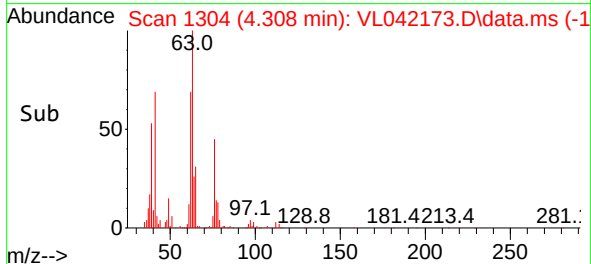
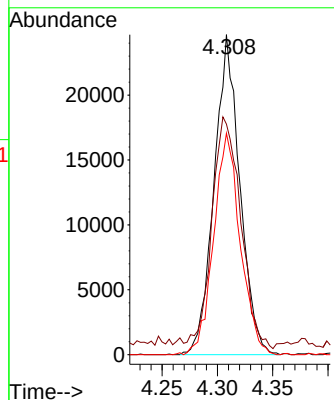
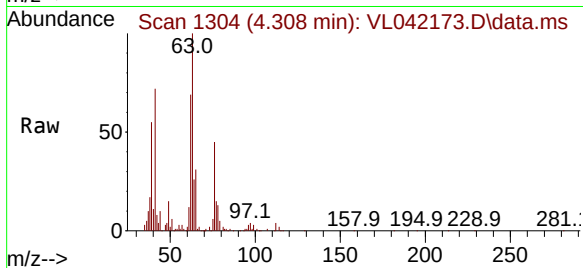
Tgt Ion: 63 Resp: 39912

Ion Ratio Lower Upper

63 100

41 68.6 61.7 92.5

62 69.2 57.6 86.4



#40

1,4-Dioxane

Concen: 1.369 ppbv

RT: 4.587 min Scan# 1390

Delta R.T. 0.009 min

Lab File: VL042173.D

Acq: 27 Mar 2025 08:59

Tgt Ion: 88 Resp: 14008

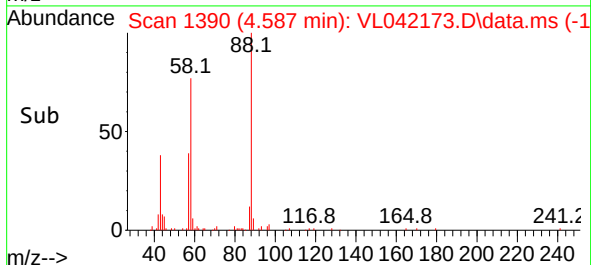
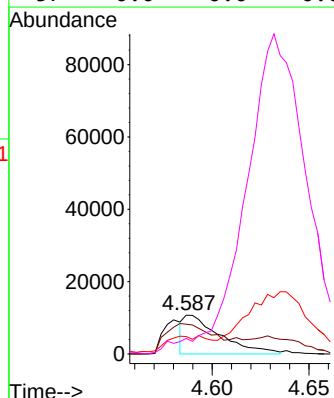
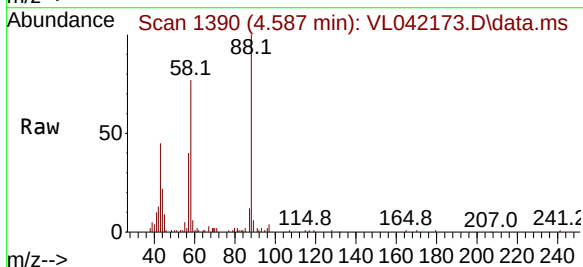
Ion Ratio Lower Upper

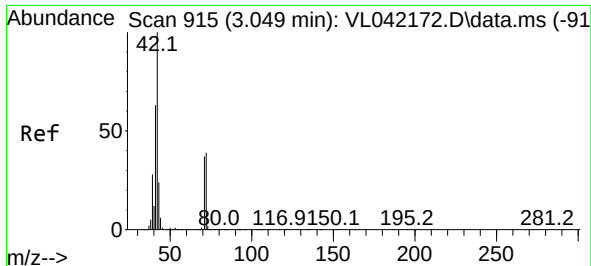
88 100

58 178.2 62.7 94.1#

43 0.0 23.0 34.4#

57 0.0 0.0 0.0

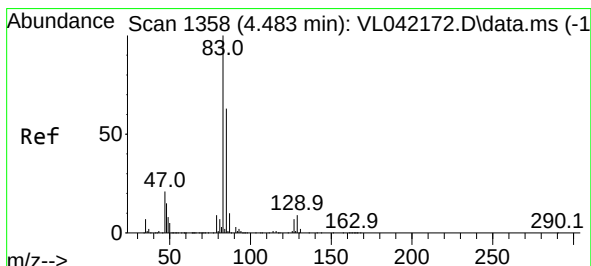
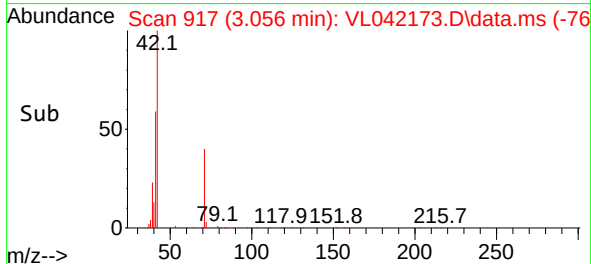
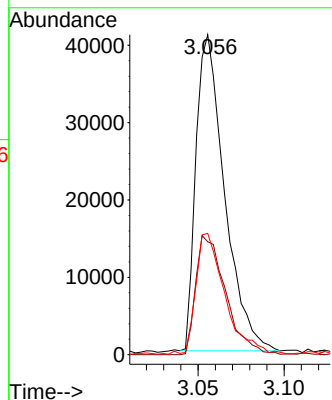
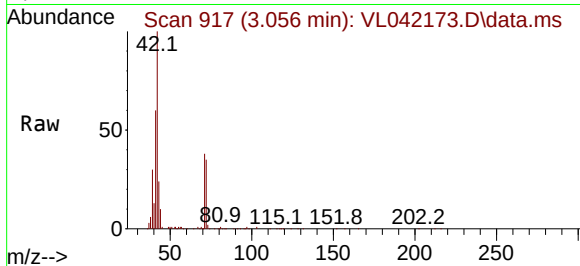




#41
Tetrahydrofuran
Concen: 2.097 ppbv
RT: 3.056 min Scan# 915
Delta R.T. 0.006 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

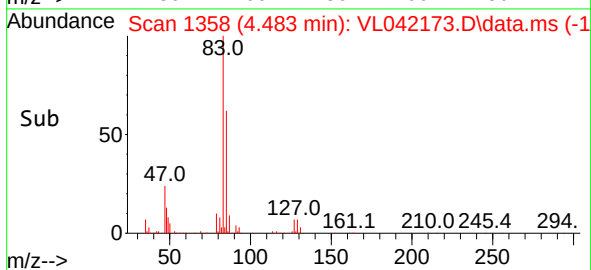
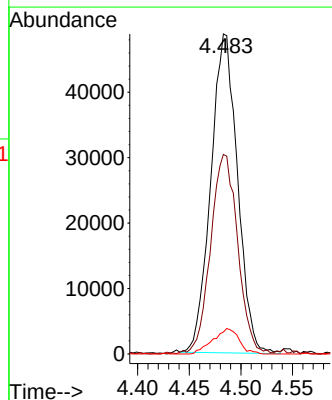
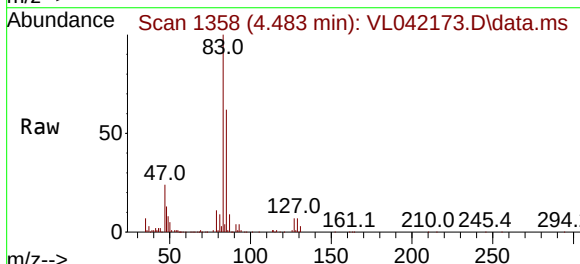
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

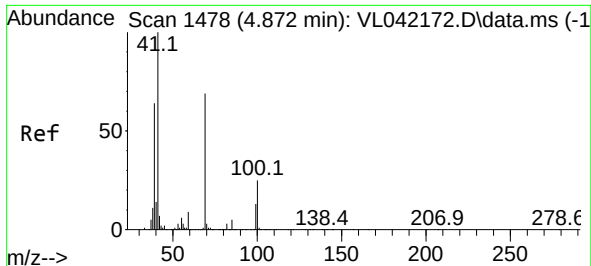
Tgt Ion: 42 Resp: 47262
Ion Ratio Lower Upper
42 100
72 39.6 31.4 47.0
71 39.0 30.2 45.4



#42
Bromodichloromethane
Concen: 2.050 ppbv
RT: 4.483 min Scan# 1358
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

Tgt Ion: 83 Resp: 87640
Ion Ratio Lower Upper
83 100
85 62.2 50.5 75.7
127 6.9 5.9 8.9

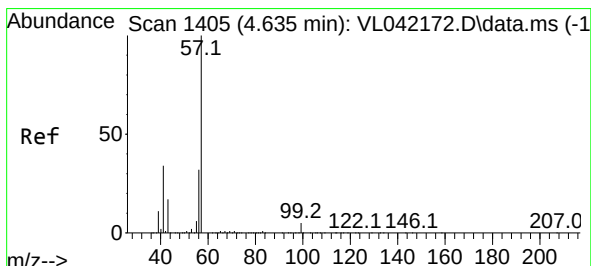
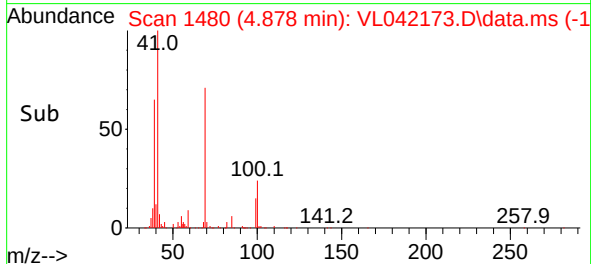
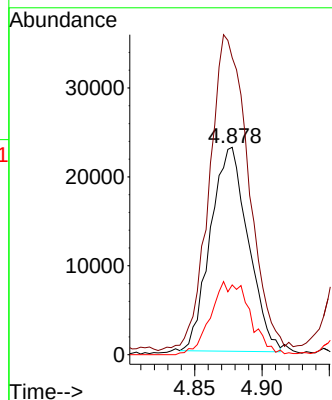
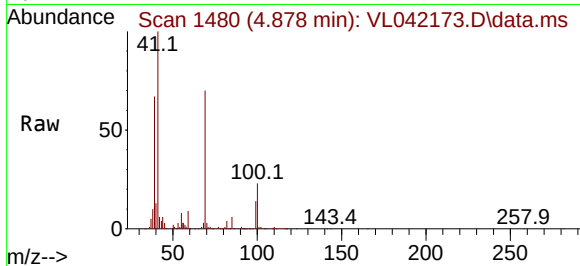




#43
Methyl Methacrylate
Concen: 1.952 ppbv
RT: 4.878 min Scan# 1478
Delta R.T. 0.006 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

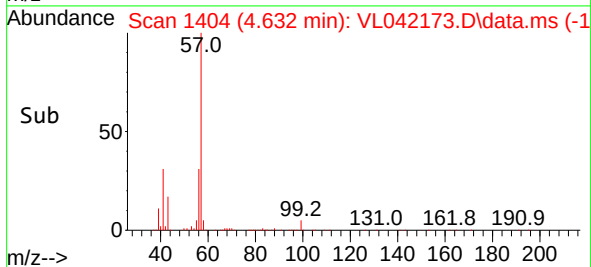
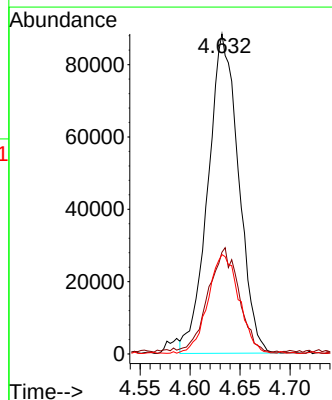
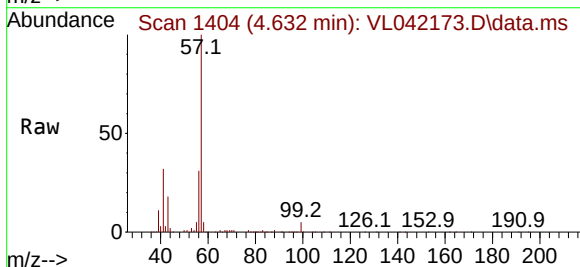
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

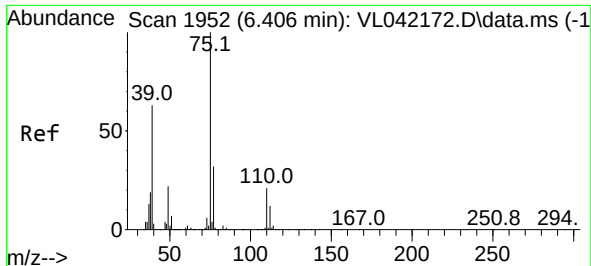
Tgt Ion: 69 Resp: 44624
Ion Ratio Lower Upper
69 100
41 158.7 123.8 185.6
100 37.5 28.4 42.6



#44
2,2,4-Trimethylpentane
Concen: 2.057 ppbv
RT: 4.632 min Scan# 1404
Delta R.T. -0.003 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

Tgt Ion: 57 Resp: 188282
Ion Ratio Lower Upper
57 100
41 33.8 26.8 40.2
56 31.8 25.6 38.4





#45

t-1,3-Dichloropropene

Concen: 2.011 ppbv

RT: 6.406 min Scan# 1952

Delta R.T. -0.000 min

Lab File: VL042173.D

Acq: 27 Mar 2025 08:59

Instrument :

MSVOA_L

ClientSampleId :

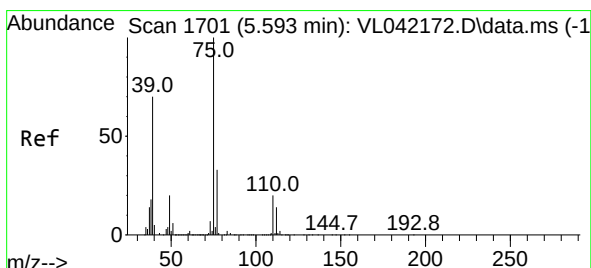
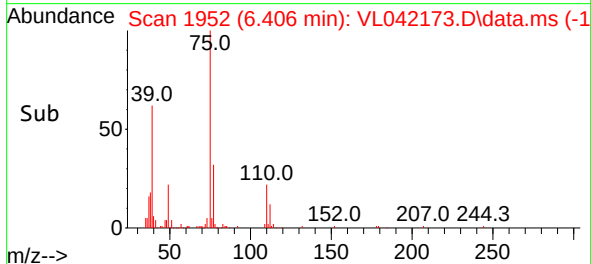
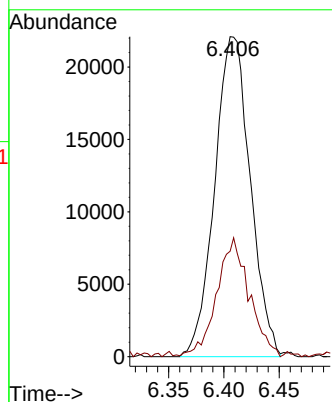
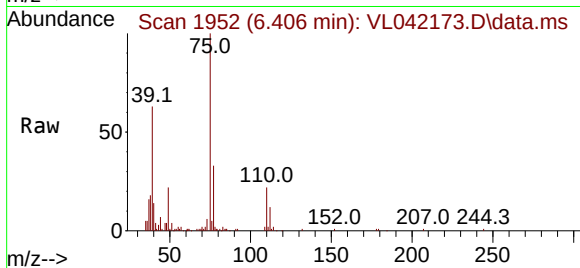
VSTDIC002

Tgt Ion: 75 Resp: 49461

Ion Ratio Lower Upper

75 100

77 32.9 26.0 39.0



#46

cis-1,3-Dichloropropene

Concen: 2.050 ppbv

RT: 5.593 min Scan# 1701

Delta R.T. -0.000 min

Lab File: VL042173.D

Acq: 27 Mar 2025 08:59

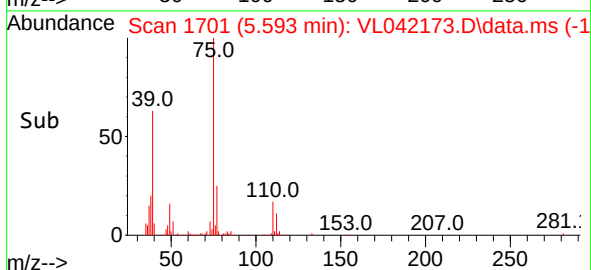
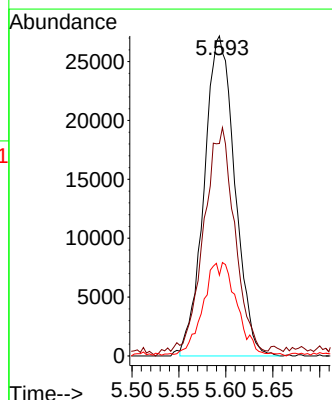
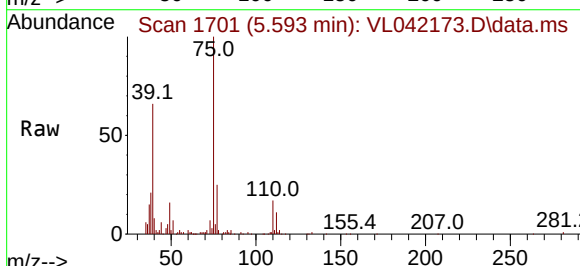
Tgt Ion: 75 Resp: 61829

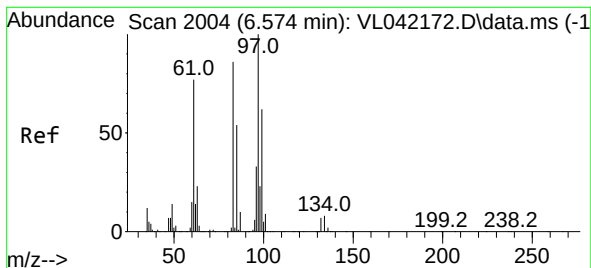
Ion Ratio Lower Upper

75 100

39 64.4 55.8 83.6

77 24.5 26.0 39.0#





#47

1,1,2-Trichloroethane

Concen: 1.985 ppbv

RT: 6.577 min Scan# 20

Delta R.T. 0.003 min

Lab File: VL042173.D

Acq: 27 Mar 2025 08:59

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tgt Ion: 97 Resp: 41387

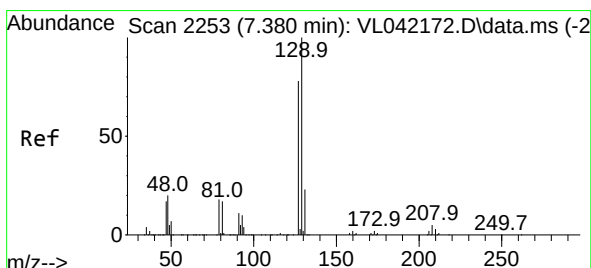
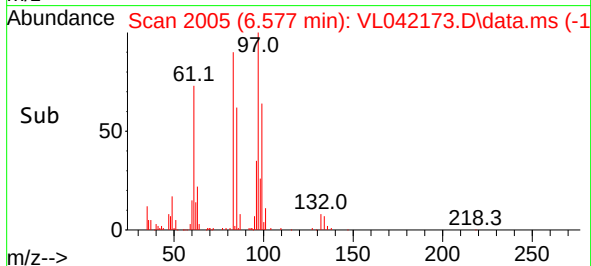
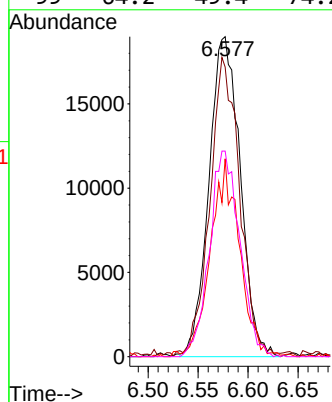
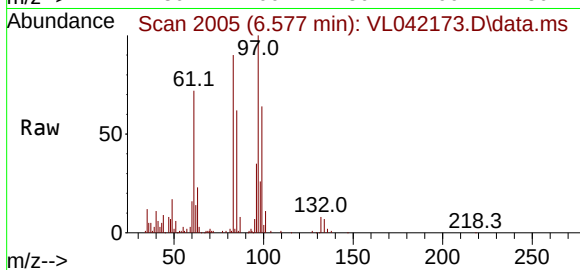
Ion Ratio Lower Upper

97 100

83 89.4 69.2 103.8

85 61.3 43.1 64.7

99 64.2 49.4 74.2



#48

Dibromochloromethane

Concen: 2.050 ppbv

RT: 7.383 min Scan# 2254

Delta R.T. 0.003 min

Lab File: VL042173.D

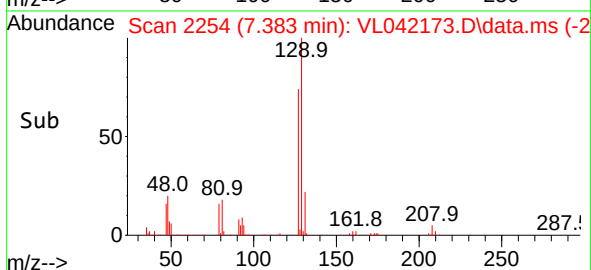
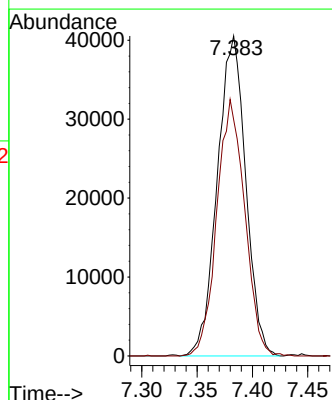
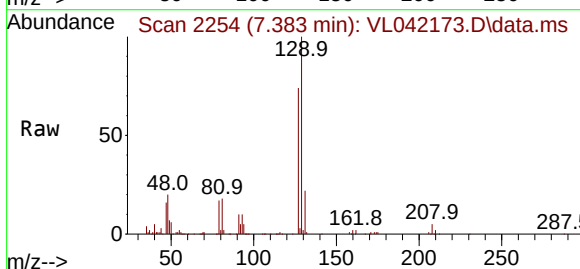
Acq: 27 Mar 2025 08:59

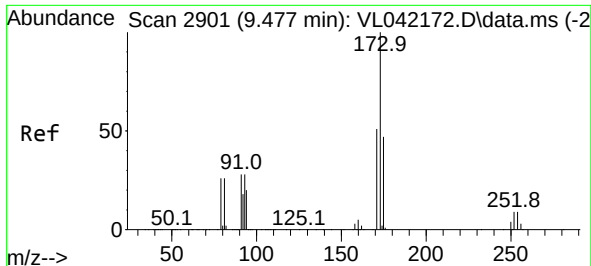
Tgt Ion: 129 Resp: 72441

Ion Ratio Lower Upper

129 100

127 78.5 39.1 117.2

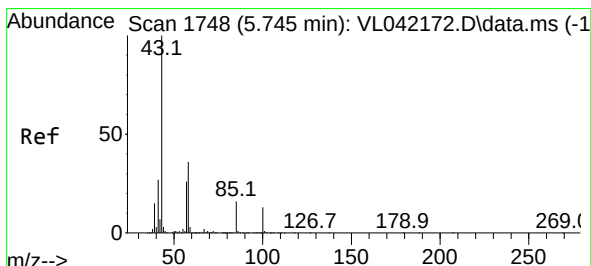
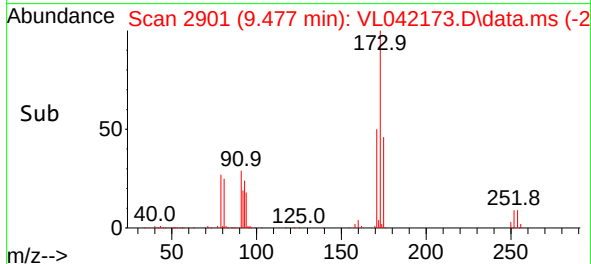
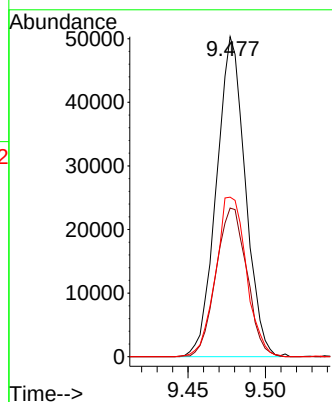
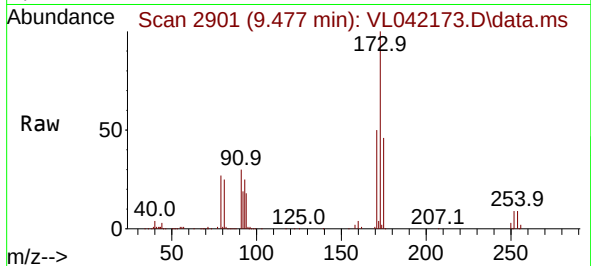




#49
Bromoform
Concen: 2.056 ppbv
RT: 9.477 min Scan# 2901
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

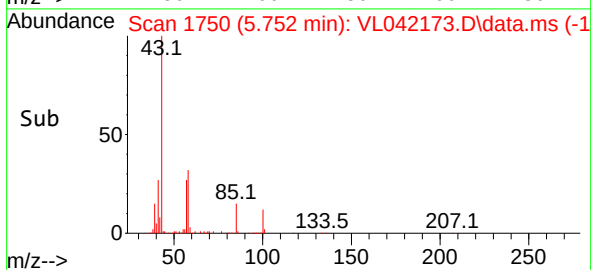
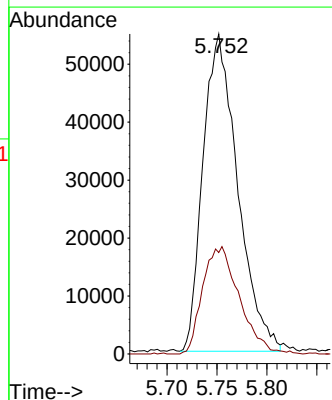
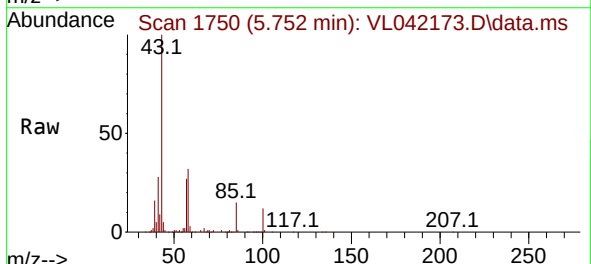
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

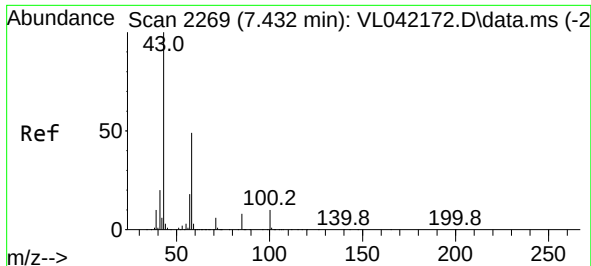
Tgt Ion:173 Resp: 65221
Ion Ratio Lower Upper
173 100
175 49.7 38.6 57.8
171 53.0 41.8 62.6



#50
4-Methyl-2-Pentanone
Concen: 2.107 ppbv
RT: 5.752 min Scan# 1750
Delta R.T. 0.006 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

Tgt Ion: 43 Resp: 132328
Ion Ratio Lower Upper
43 100
58 35.9 29.0 43.6

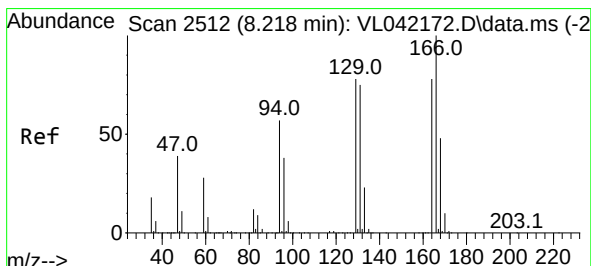
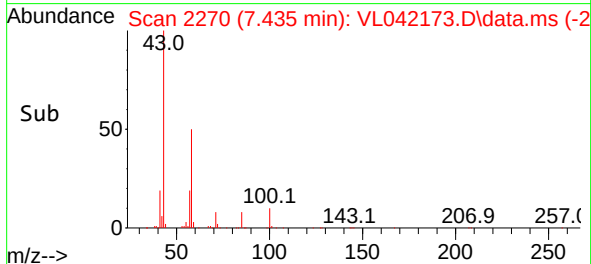
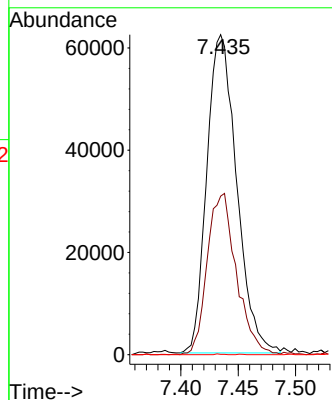
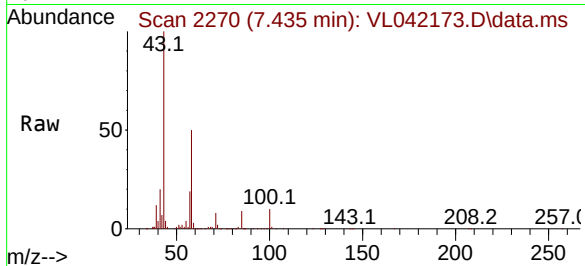




#51
2-Hexanone
Concen: 2.162 ppbv
RT: 7.435 min Scan# 21
Delta R.T. 0.003 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

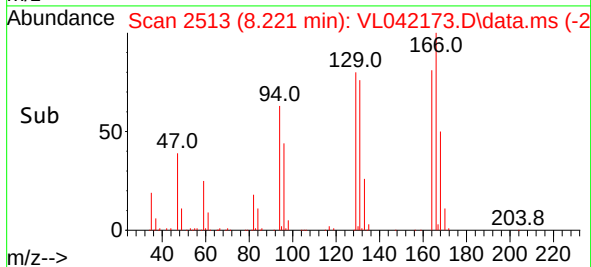
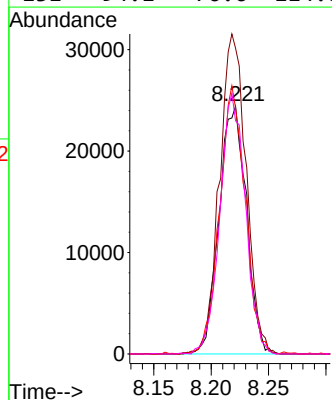
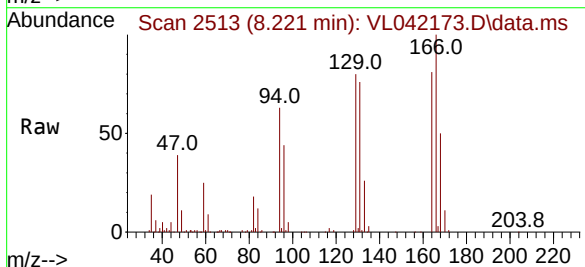
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC002

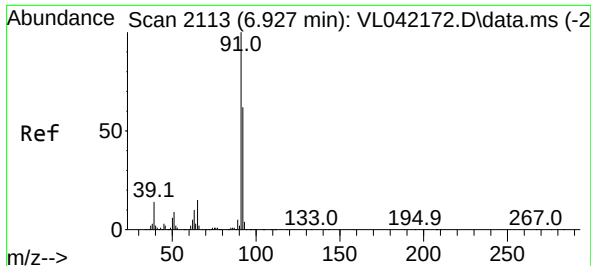
Tgt Ion: 43 Resp: 112681
Ion Ratio Lower Upper
43 100
58 50.0 39.7 59.5
98 0.0 0.1 0.1#



#52
Tetrachloroethene
Concen: 1.888 ppbv
RT: 8.221 min Scan# 2513
Delta R.T. 0.003 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

Tgt Ion: 164 Resp: 40558
Ion Ratio Lower Upper
164 100
166 123.4 102.5 153.7
129 99.2 79.8 119.8
131 94.1 76.6 114.8

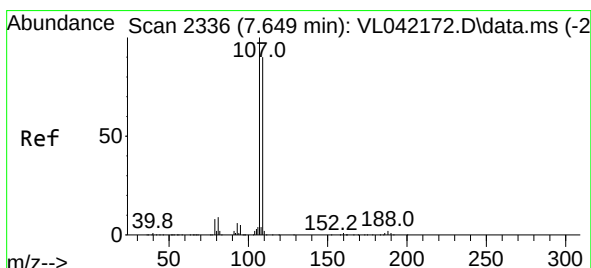
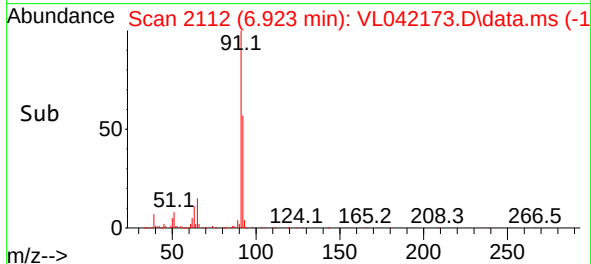
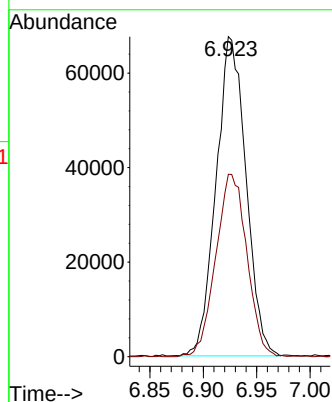
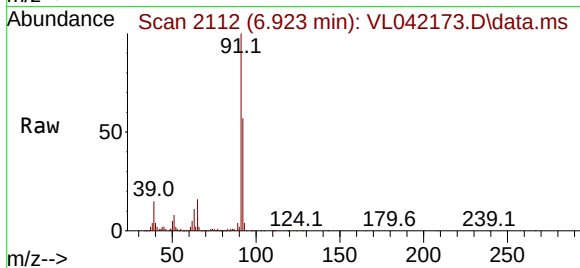




#53
Toluene
Concen: 2.045 ppbv
RT: 6.923 min Scan# 2113
Delta R.T. -0.003 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

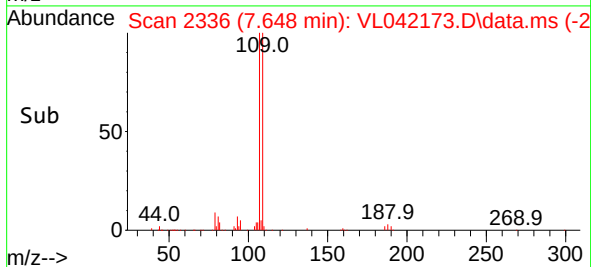
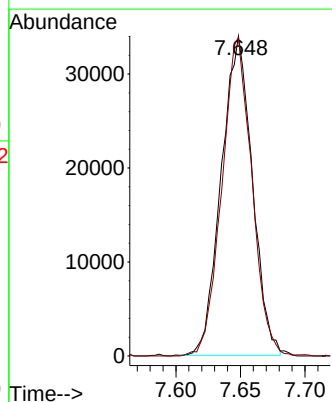
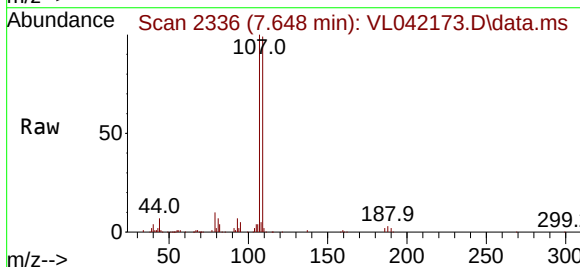
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

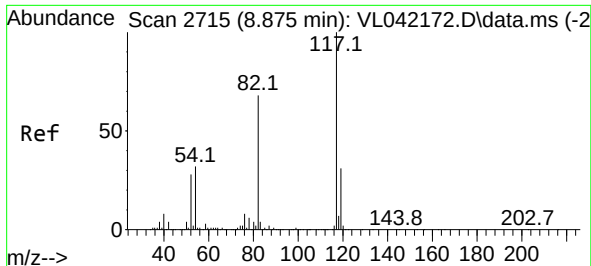
Tgt Ion: 91 Resp: 131314
Ion Ratio Lower Upper
91 100
92 59.6 48.4 72.6



#54
1,2-Dibromoethane
Concen: 1.952 ppbv
RT: 7.648 min Scan# 2336
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

Tgt Ion: 107 Resp: 56799
Ion Ratio Lower Upper
107 100
109 99.7 72.2 108.4

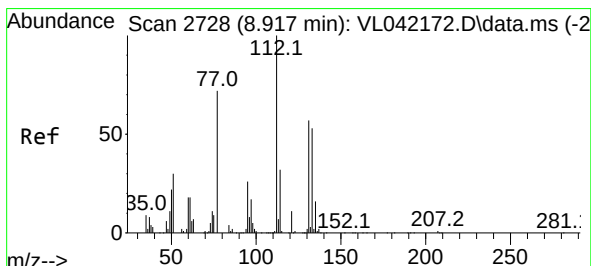
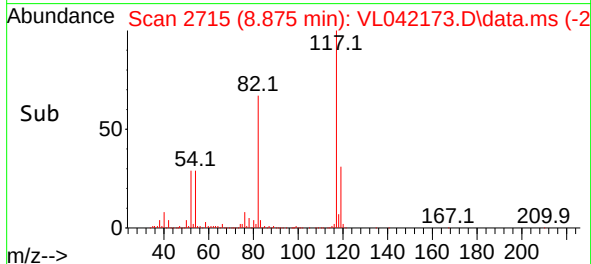
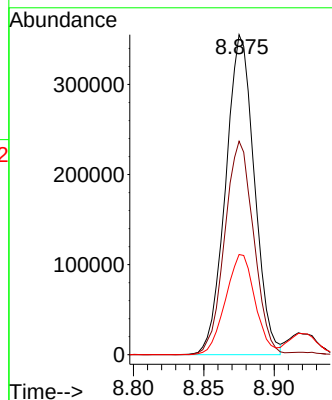
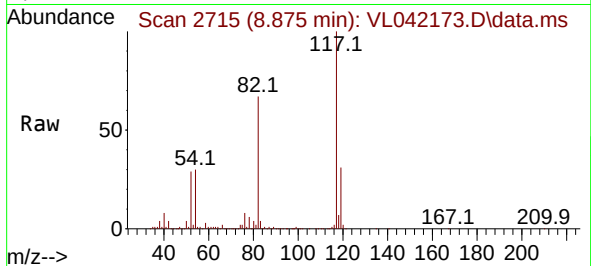




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.875 min Scan# 21
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

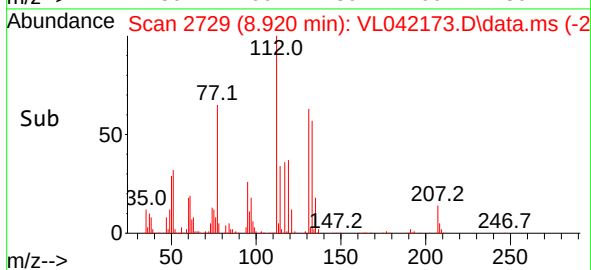
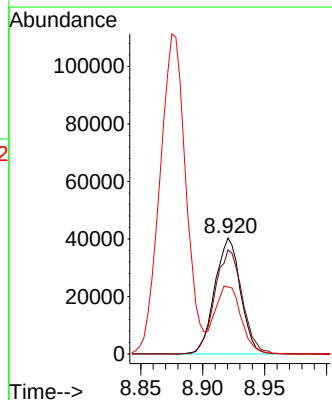
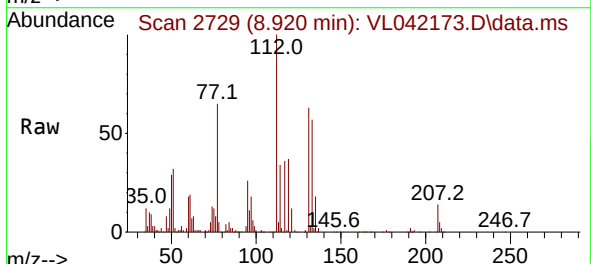
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

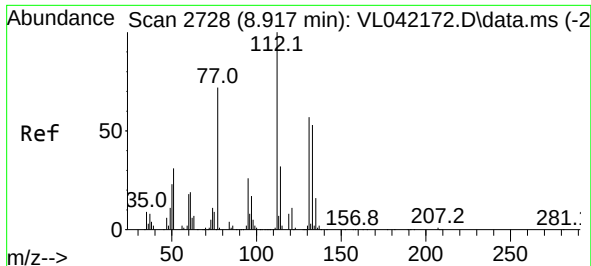
Tgt Ion:117 Resp: 504538
Ion Ratio Lower Upper
117 100
82 68.2 55.8 83.6
119 33.0 25.5 38.3



#56
1,1,1,2-Tetrachloroethane
Concen: 2.093 ppbv
RT: 8.920 min Scan# 2729
Delta R.T. 0.003 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

Tgt Ion:131 Resp: 58141
Ion Ratio Lower Upper
131 100
133 96.6 76.6 114.8
119 58.3 49.8 74.6





#57

Chlorobenzene

Concen: 2.096 ppbv

RT: 8.914 min Scan# 21

Delta R.T. -0.003 min

Lab File: VL042173.D

Acq: 27 Mar 2025 08:59

Instrument :

MSVOA_1

ClientSampleId :

VSTDIC002

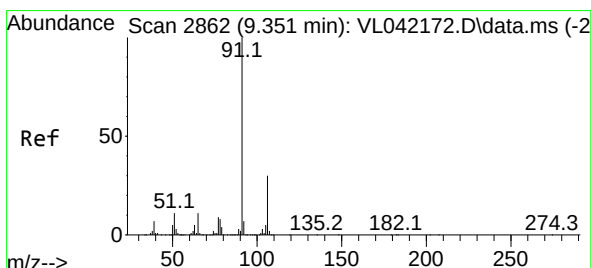
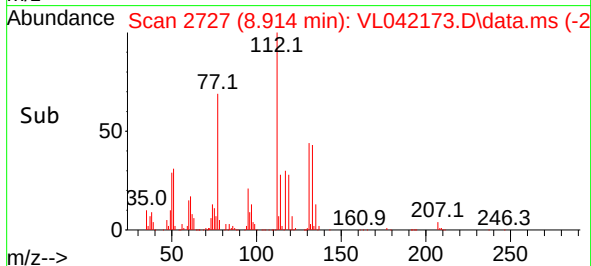
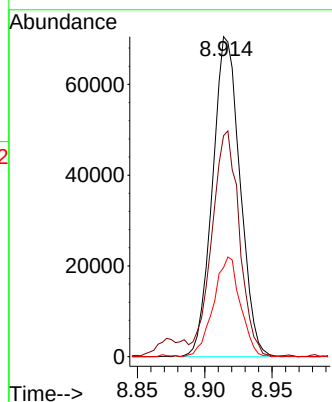
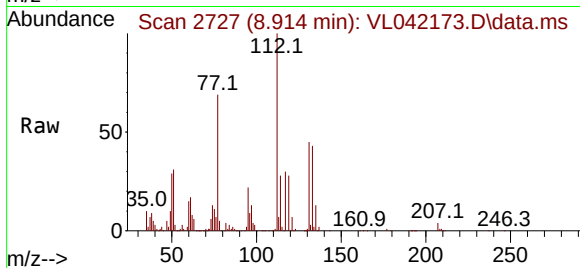
Tgt Ion:112 Resp: 100308

Ion Ratio Lower Upper

112 100

77 68.8 58.2 87.2

114 27.8 29.1 35.5#



#58

Ethyl Benzene

Concen: 2.132 ppbv

RT: 9.351 min Scan# 2862

Delta R.T. -0.000 min

Lab File: VL042173.D

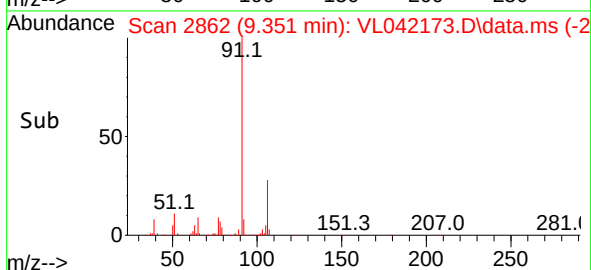
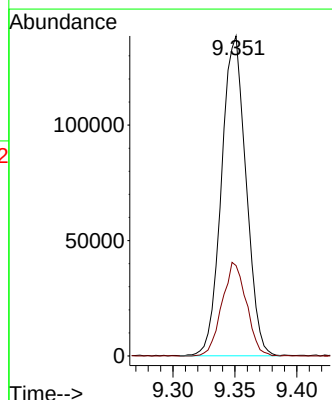
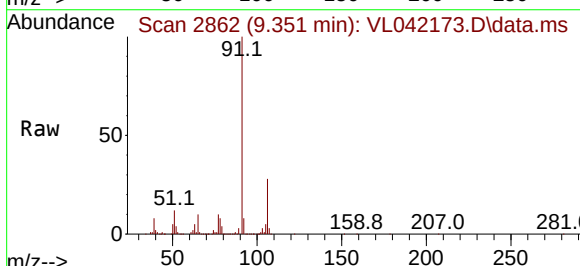
Acq: 27 Mar 2025 08:59

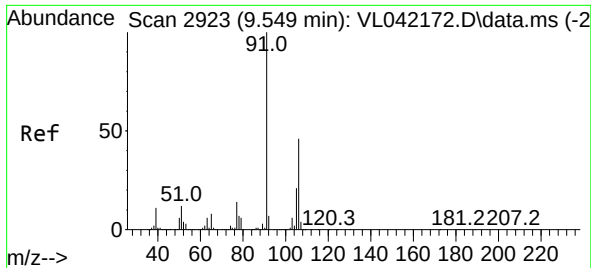
Tgt Ion: 91 Resp: 191114

Ion Ratio Lower Upper

91 100

106 28.3 24.2 36.2

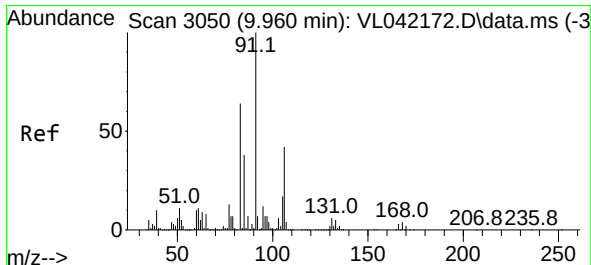
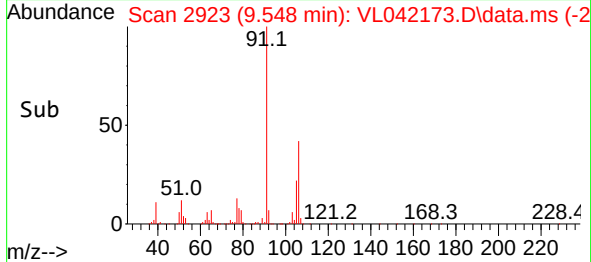
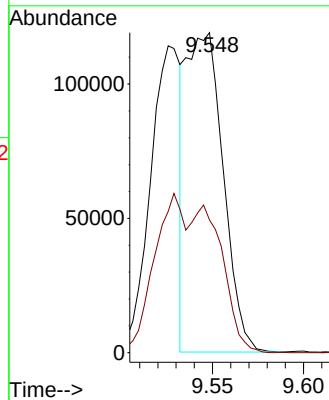
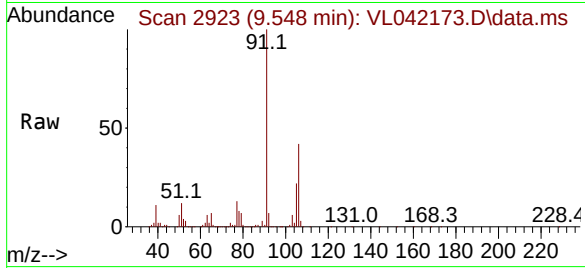




#59
m/p-Xylene
Concen: 2.333 ppbv
RT: 9.548 min Scan# 2923
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

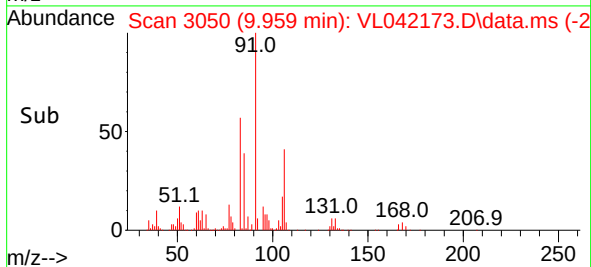
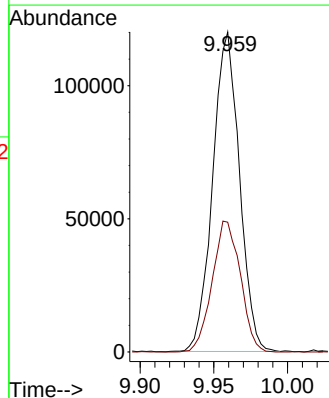
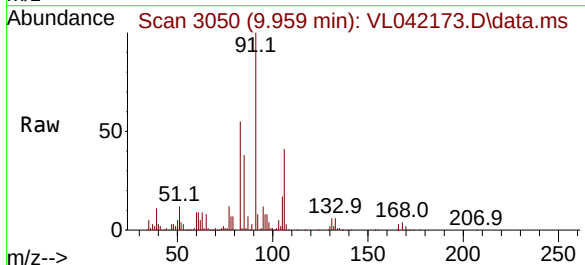
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

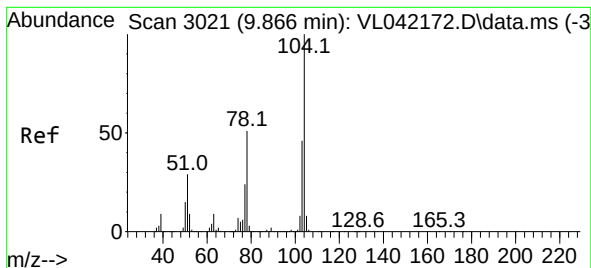
Tgt Ion: 91 Resp: 167182
Ion Ratio Lower Upper
91 100
106 0.0 36.4 54.6#



#60
o-Xylene
Concen: 2.109 ppbv
RT: 9.959 min Scan# 3050
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

Tgt Ion: 91 Resp: 151292
Ion Ratio Lower Upper
91 100
106 43.2 20.8 62.5





#61

Styrene

Concen: 2.089 ppbv

RT: 9.865 min Scan# 3021

Delta R.T. -0.000 min

Lab File: VL042173.D

Acq: 27 Mar 2025 08:59

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC002

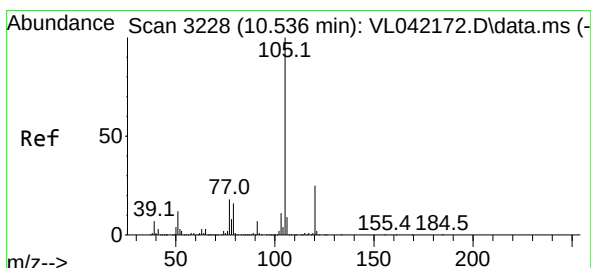
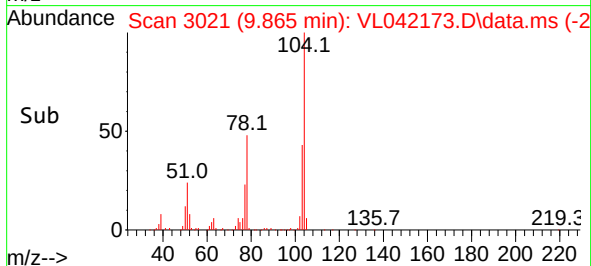
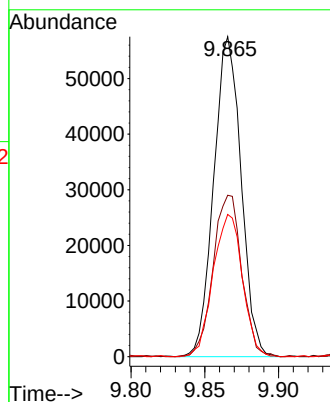
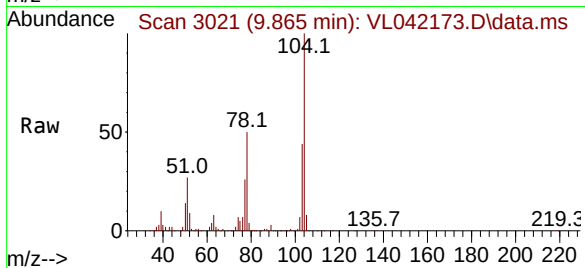
Tgt Ion:104 Resp: 74134

Ion Ratio Lower Upper

104 100

78 52.8 41.8 62.6

103 47.8 37.0 55.4



#62

Isopropylbenzene

Concen: 2.127 ppbv

RT: 10.535 min Scan# 3228

Delta R.T. -0.000 min

Lab File: VL042173.D

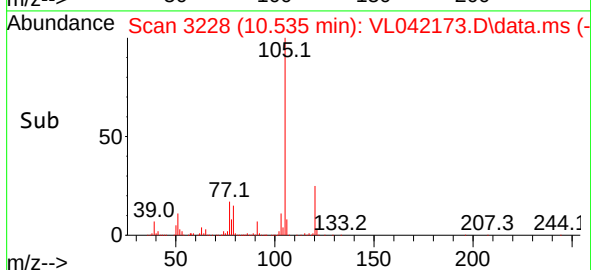
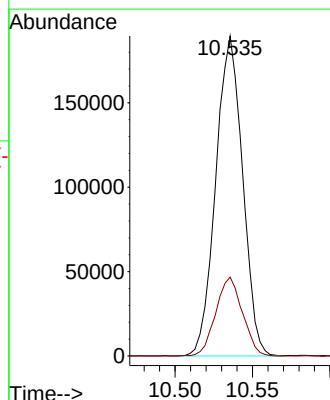
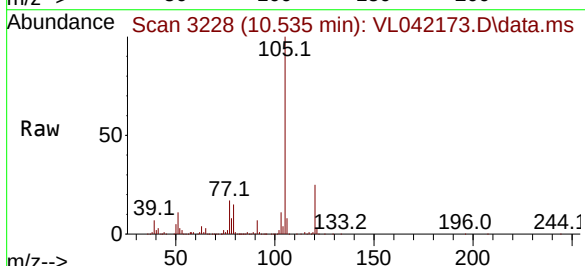
Acq: 27 Mar 2025 08:59

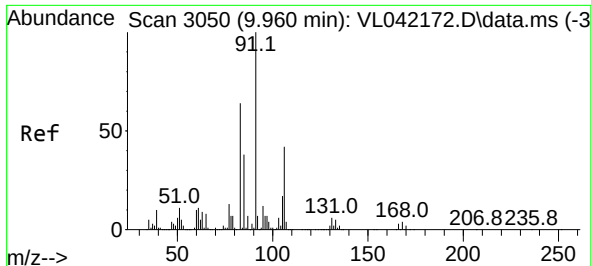
Tgt Ion:105 Resp: 228191

Ion Ratio Lower Upper

105 100

120 24.4 19.9 29.9





#63

1,1,2,2-Tetrachloroethane

Concen: 2.067 ppbv

RT: 9.956 min Scan# 3049

Delta R.T. -0.003 min

Lab File: VL042173.D

Acq: 27 Mar 2025 08:59

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

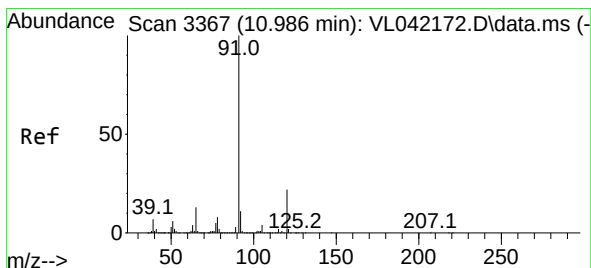
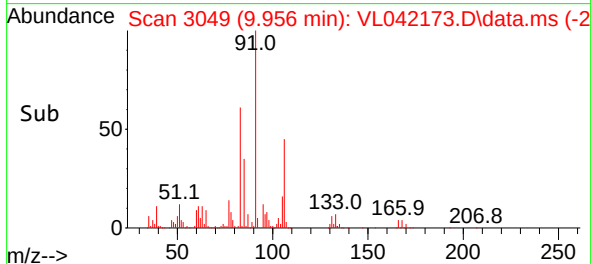
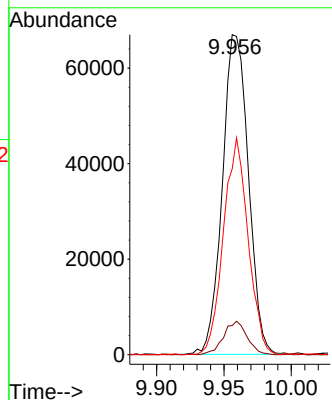
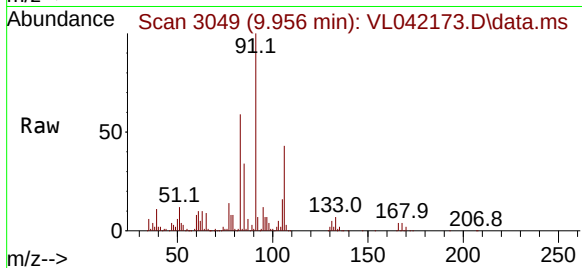
Tgt Ion: 83 Resp: 90114

Ion Ratio Lower Upper

83 100

131 9.5 4.8 14.4

85 64.4 32.5 97.5



#64

n-propylbenzene

Concen: 2.104 ppbv

RT: 10.985 min Scan# 3367

Delta R.T. -0.000 min

Lab File: VL042173.D

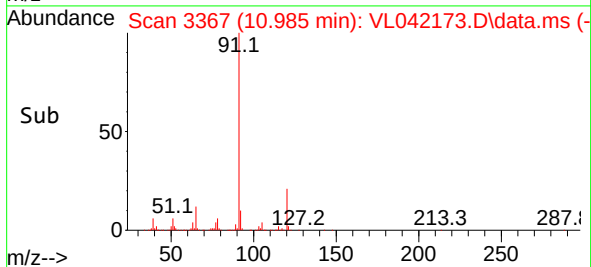
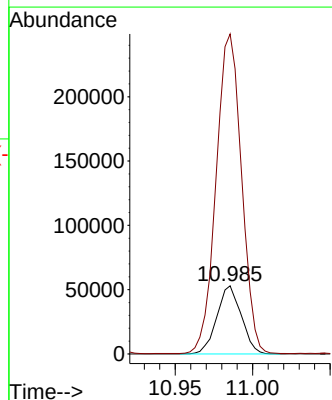
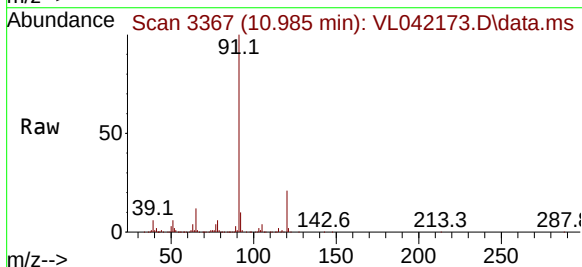
Acq: 27 Mar 2025 08:59

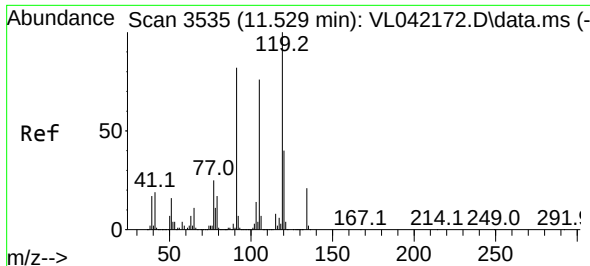
Tgt Ion:120 Resp: 58105

Ion Ratio Lower Upper

120 100

91 491.1 376.9 565.3

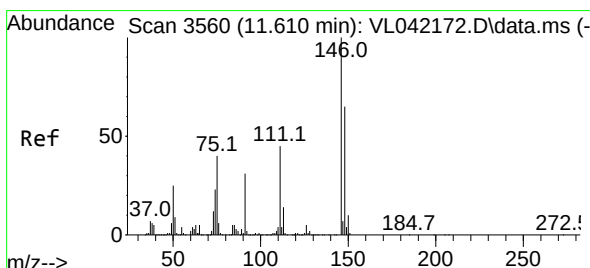
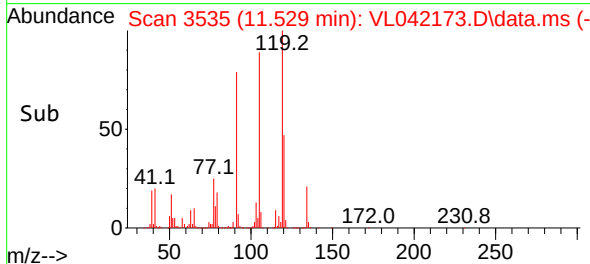
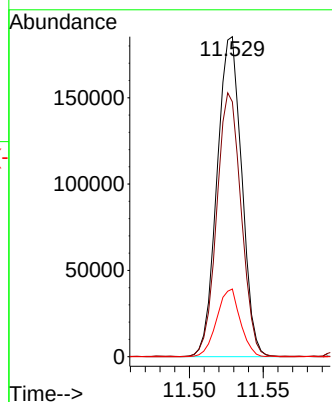
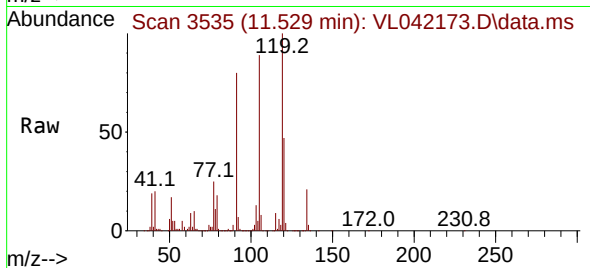




#65
tert-Butylbenzene
Concen: 2.180 ppbv
RT: 11.529 min Scan# 3535
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

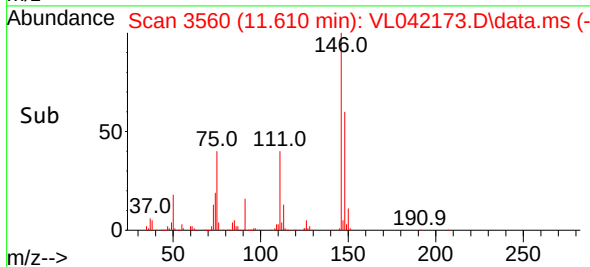
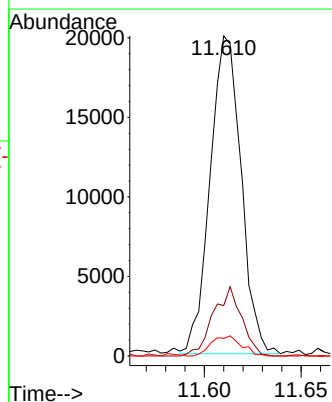
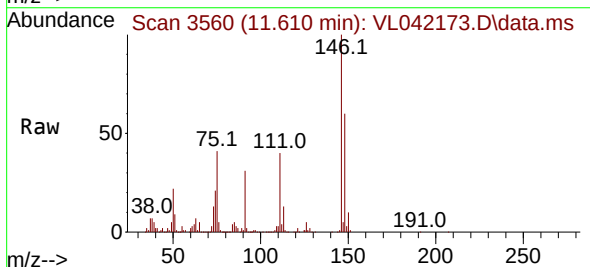
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

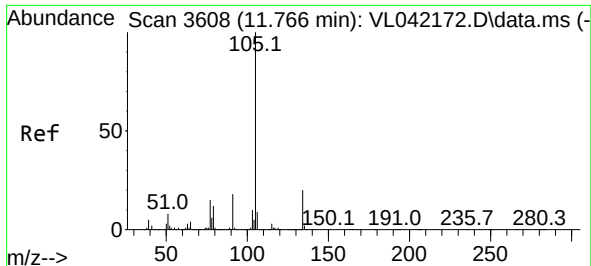
Tgt Ion:119 Resp: 216336
Ion Ratio Lower Upper
119 100
91 81.5 66.0 99.0
134 20.2 16.7 25.1



#66
Benzyl Chloride
Concen: 2.116 ppbv
RT: 11.610 min Scan# 3560
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

Tgt Ion: 91 Resp: 22272
Ion Ratio Lower Upper
91 100
126 20.0 13.8 20.6
128 6.5 4.5 6.7

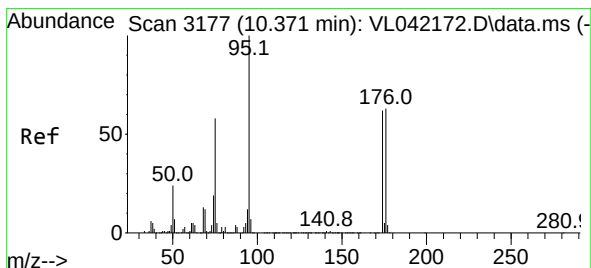
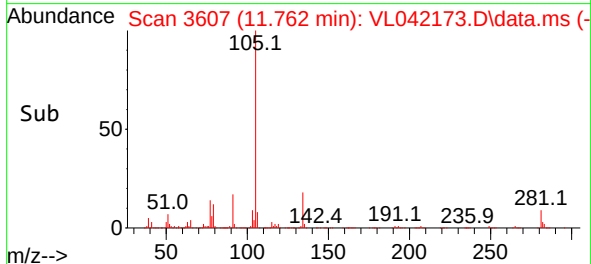
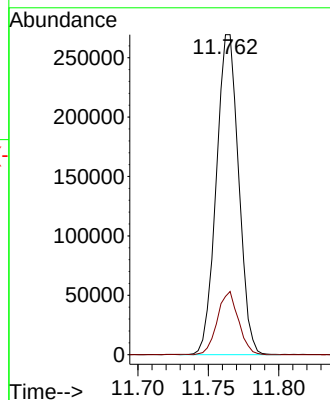
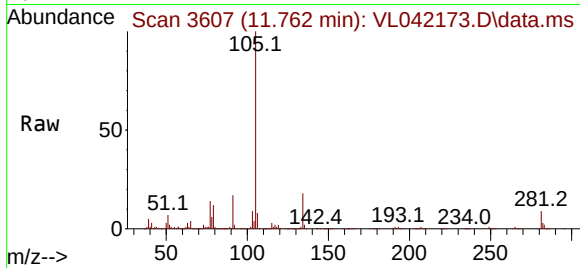




#67
 sec-Butylbenzene
 Concen: 2.156 ppbv
 RT: 11.762 min Scan# 3607
 Delta R.T. -0.003 min
 Lab File: VL042173.D
 Acq: 27 Mar 2025 08:59

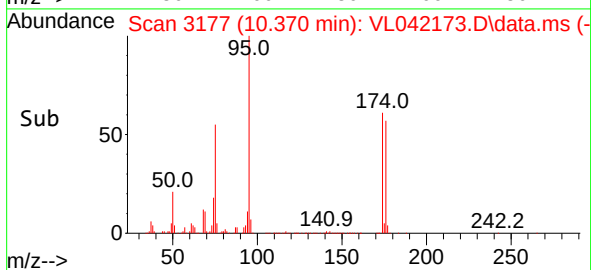
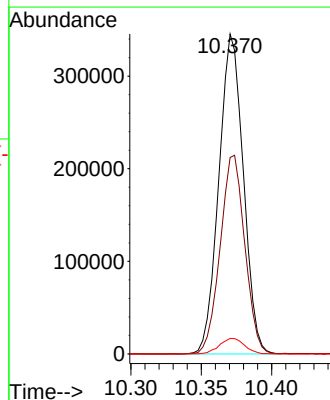
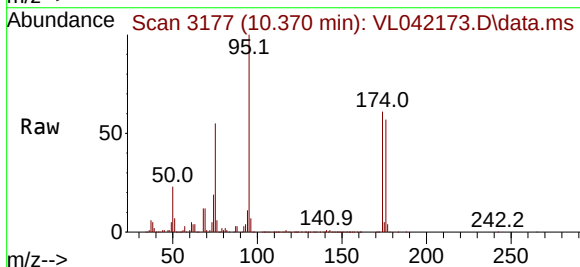
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

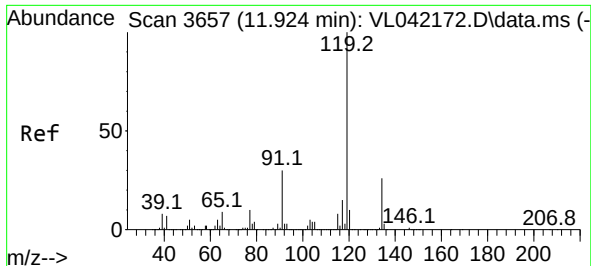
Tgt Ion:105 Resp: 297381
 Ion Ratio Lower Upper
 105 100
 134 18.8 15.5 23.3



#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.077 ppbv
 RT: 10.370 min Scan# 3177
 Delta R.T. -0.000 min
 Lab File: VL042173.D
 Acq: 27 Mar 2025 08:59

Tgt Ion: 95 Resp: 417532
 Ion Ratio Lower Upper
 95 100
 174 62.6 50.6 76.0
 175 5.0 3.8 5.6

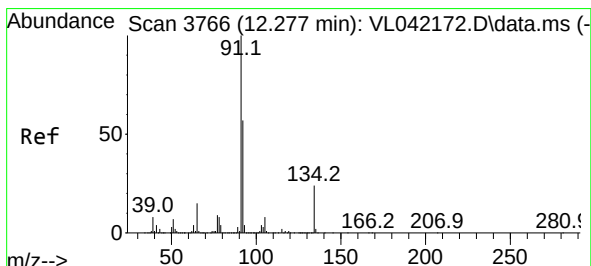
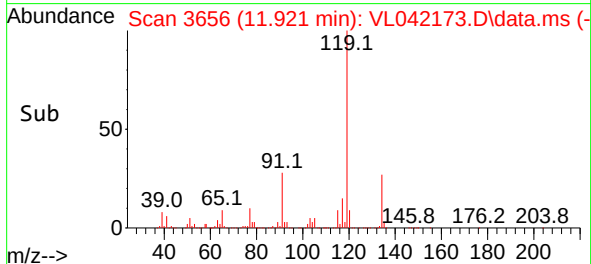
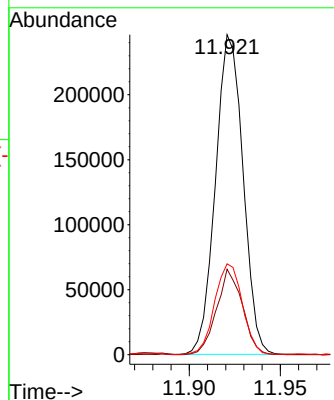
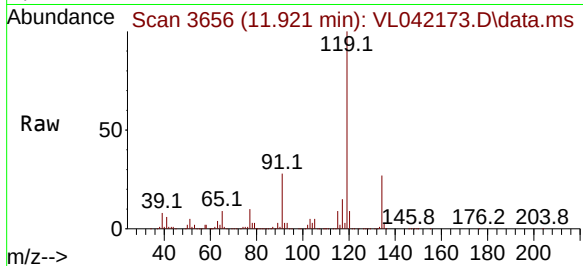




#69
 p-Isopropyltoluene
 Concen: 2.176 ppbv
 RT: 11.921 min Scan# 3656
 Delta R.T. -0.003 min
 Lab File: VL042173.D
 Acq: 27 Mar 2025 08:59

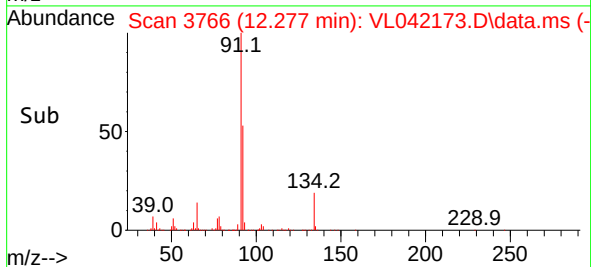
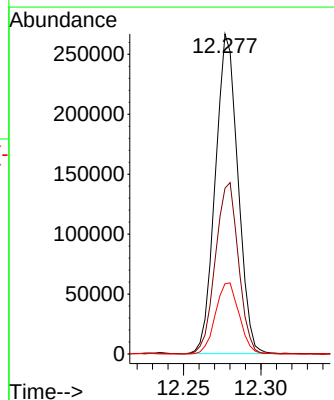
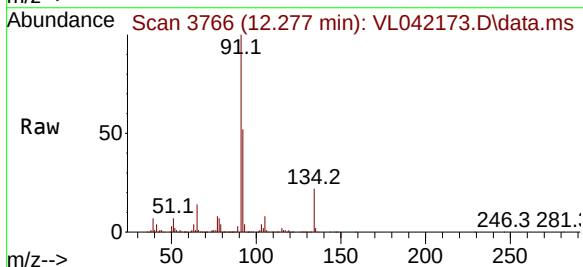
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

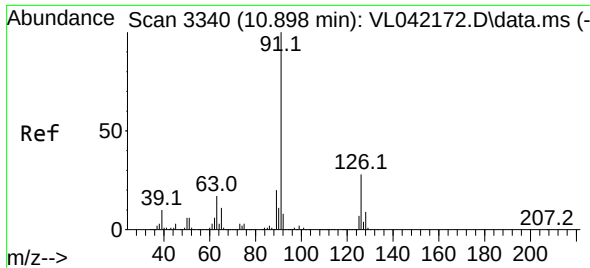
Tgt Ion:119 Resp: 258357
 Ion Ratio Lower Upper
 119 100
 134 25.2 20.4 30.6
 91 29.5 23.7 35.5



#70
 n-Butylbenzene
 Concen: 2.228 ppbv
 RT: 12.277 min Scan# 3766
 Delta R.T. -0.000 min
 Lab File: VL042173.D
 Acq: 27 Mar 2025 08:59

Tgt Ion: 91 Resp: 270616
 Ion Ratio Lower Upper
 91 100
 92 55.1 44.9 67.3
 134 23.3 19.2 28.8

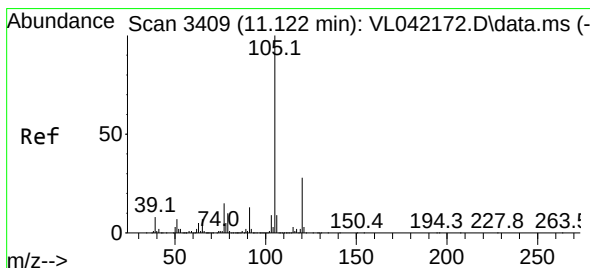
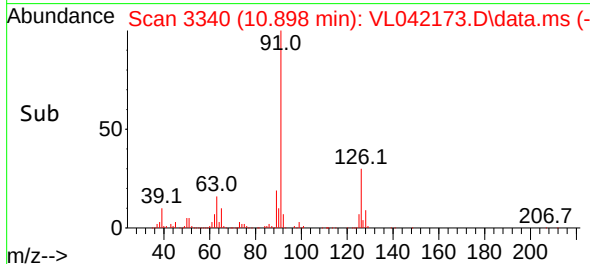
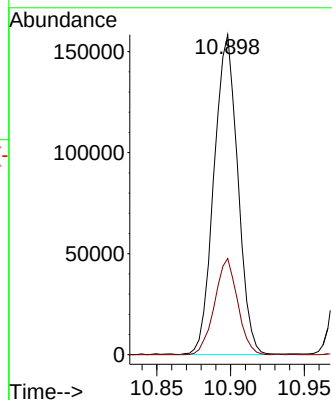
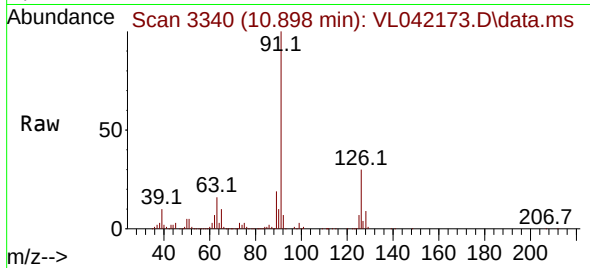




#71
2-Chlorotoluene
Concen: 2.132 ppbv
RT: 10.898 min Scan# 31
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

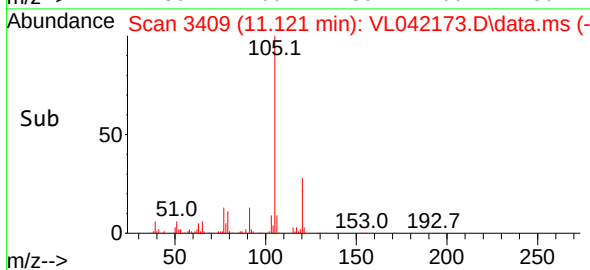
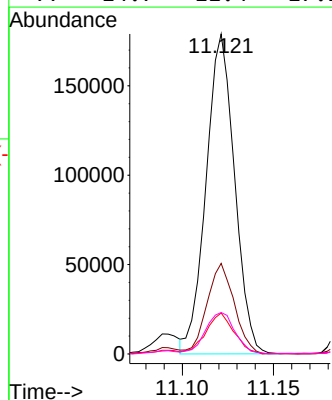
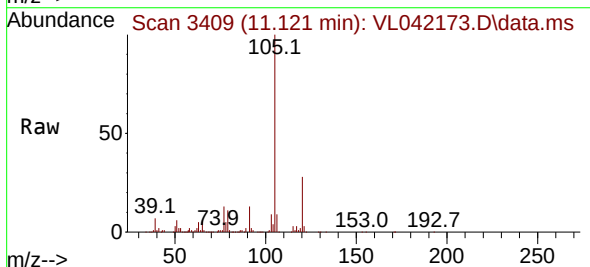
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

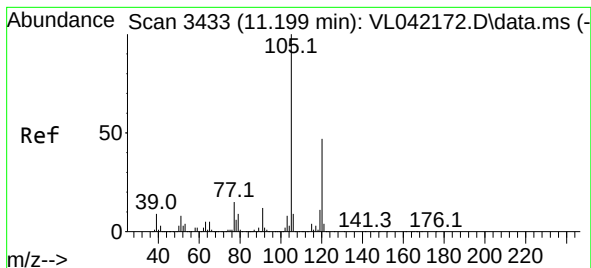
Tgt Ion: 91 Resp: 177487
Ion Ratio Lower Upper
91 100
126 29.2 11.6 46.4



#72
4-Ethyltoluene
Concen: 2.179 ppbv
RT: 11.121 min Scan# 3409
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

Tgt Ion: 105 Resp: 194660
Ion Ratio Lower Upper
105 100
120 29.1 23.4 35.0
91 13.7 10.3 15.5
77 14.7 11.4 17.2





#73

1,3,5-Trimethylbenzene

Concen: 2.169 ppbv

RT: 11.199 min Scan# 3433

Delta R.T. -0.000 min

Lab File: VL042173.D

Acq: 27 Mar 2025 08:59

Instrument :

MSVOA_1

ClientSampleId :

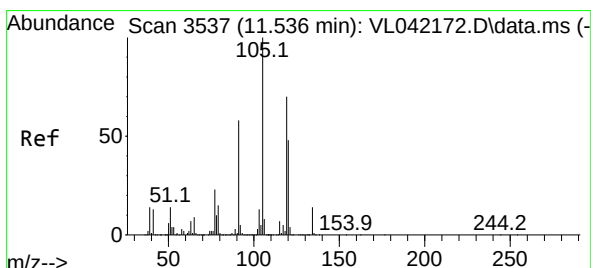
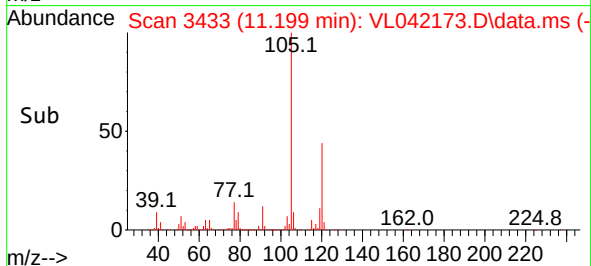
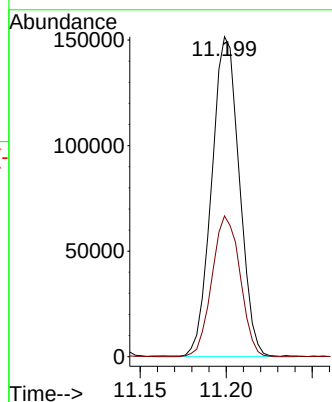
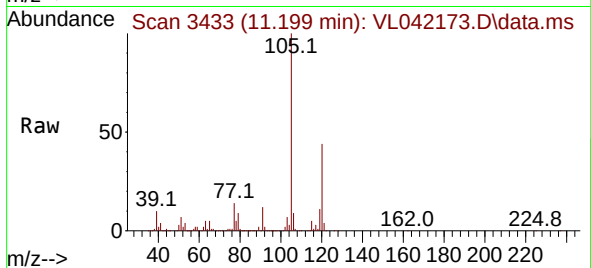
VSTDICC002

Tgt Ion:105 Resp: 169221

Ion Ratio Lower Upper

105 100

120 44.0 37.4 56.0



#74

1,2,4-Trimethylbenzene

Concen: 2.207 ppbv

RT: 11.532 min Scan# 3536

Delta R.T. -0.003 min

Lab File: VL042173.D

Acq: 27 Mar 2025 08:59

Tgt Ion:105 Resp: 198351

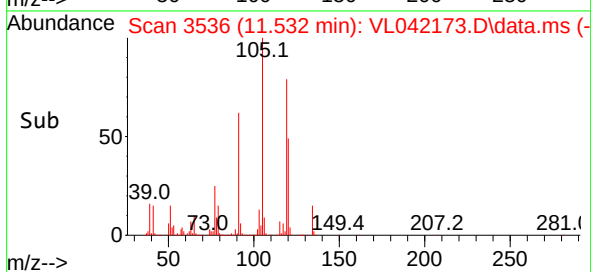
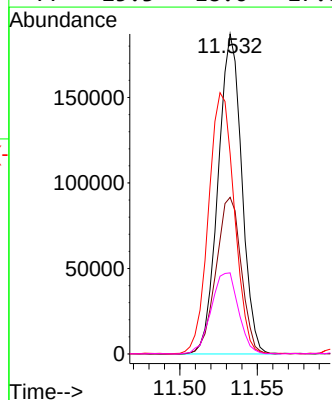
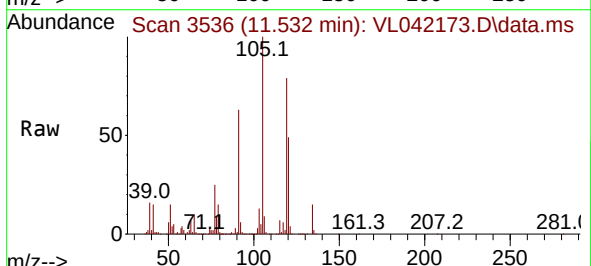
Ion Ratio Lower Upper

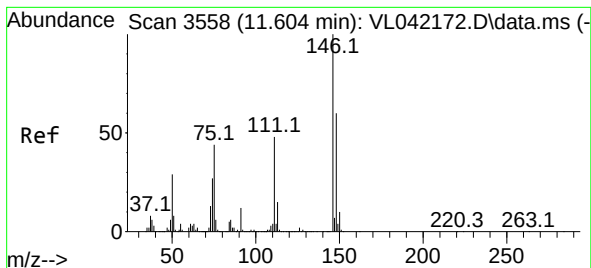
105 100

120 49.0 38.6 58.0

91 62.4 46.2 69.2

77 25.3 18.6 27.8





#75

1,3-Dichlorobenzene

Concen: 2.175 ppbv

RT: 11.604 min Scan# 3558

Delta R.T. -0.000 min

Lab File: VL042173.D

Acq: 27 Mar 2025 08:59

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

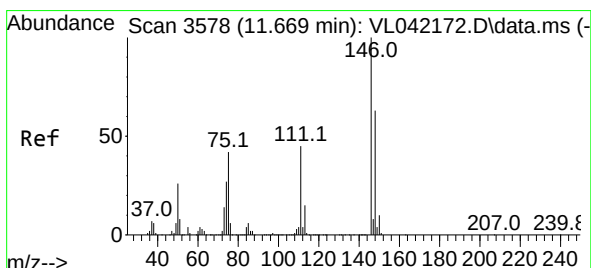
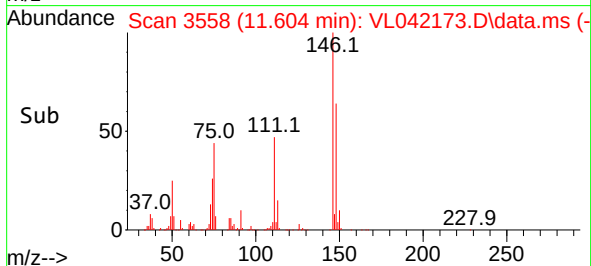
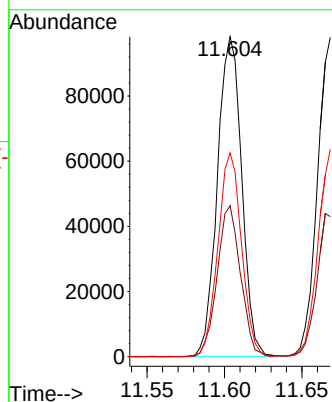
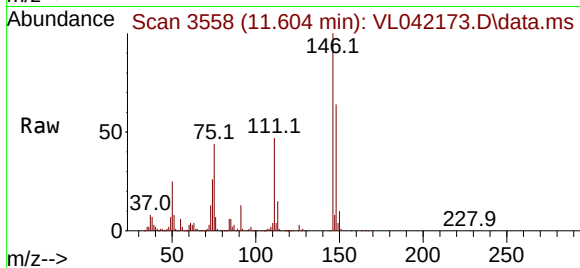
Tgt Ion:146 Resp: 107217

Ion Ratio Lower Upper

146 100

111 45.5 23.8 71.2

148 61.6 31.9 95.9



#76

1,4-Dichlorobenzene

Concen: 2.139 ppbv

RT: 11.668 min Scan# 3578

Delta R.T. -0.000 min

Lab File: VL042173.D

Acq: 27 Mar 2025 08:59

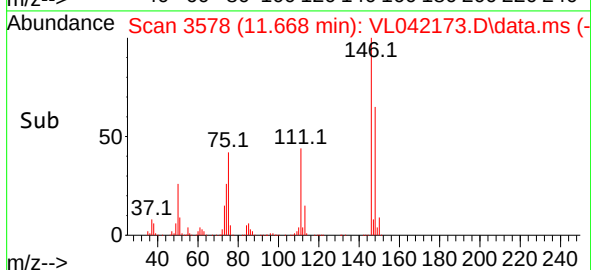
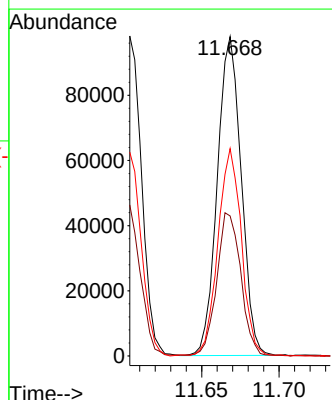
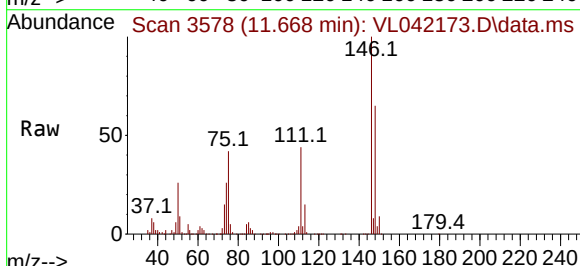
Tgt Ion:146 Resp: 104925

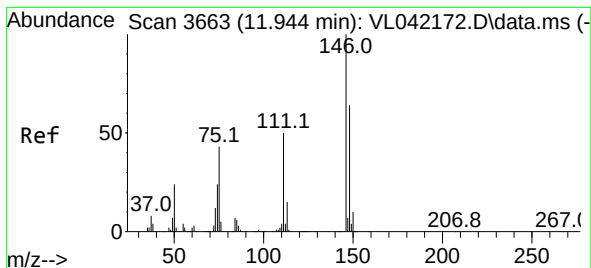
Ion Ratio Lower Upper

146 100

111 45.3 23.0 69.0

148 64.0 31.9 95.7





#77

1,2-Dichlorobenzene

Concen: 2.132 ppbv

RT: 11.943 min Scan# 3

Delta R.T. -0.000 min

Lab File: VL042173.D

Acq: 27 Mar 2025 08:59

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

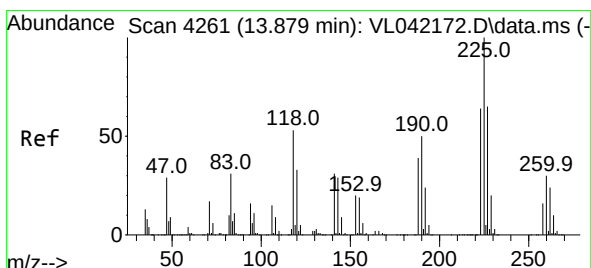
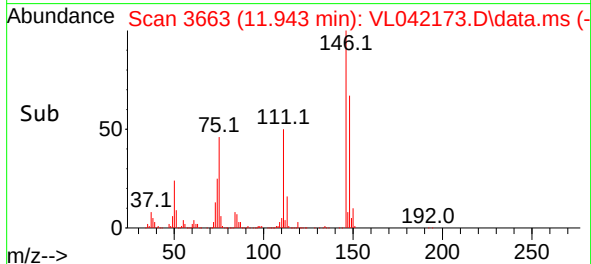
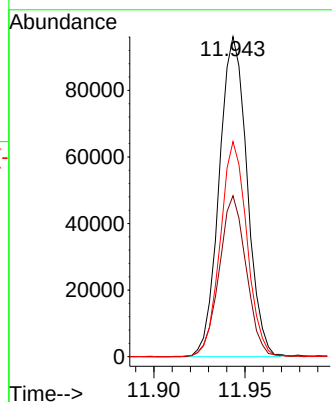
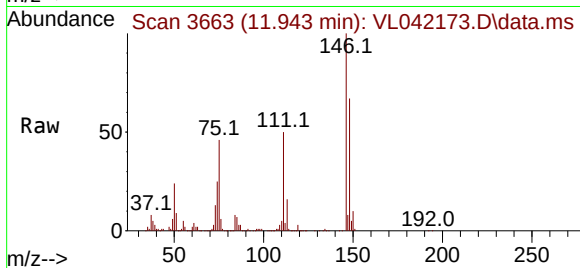
Tgt Ion:146 Resp: 102310

Ion Ratio Lower Upper

146 100

111 48.8 24.8 74.3

148 64.6 31.6 94.8



#78

Hexachloro-1,3-Butadiene

Concen: 2.242 ppbv

RT: 13.879 min Scan# 4261

Delta R.T. -0.000 min

Lab File: VL042173.D

Acq: 27 Mar 2025 08:59

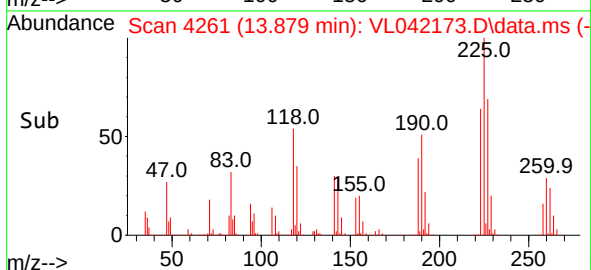
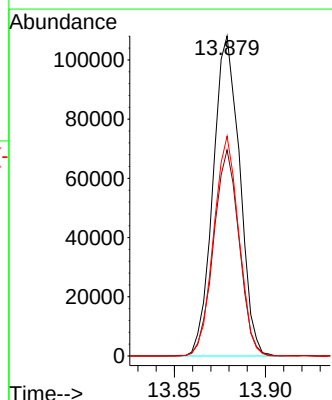
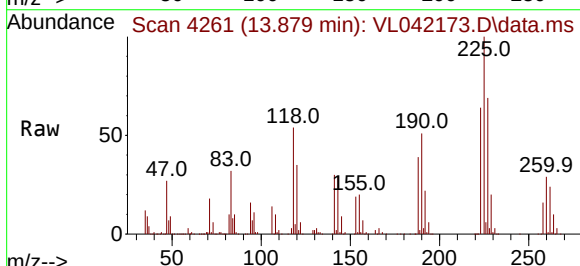
Tgt Ion:225 Resp: 109539

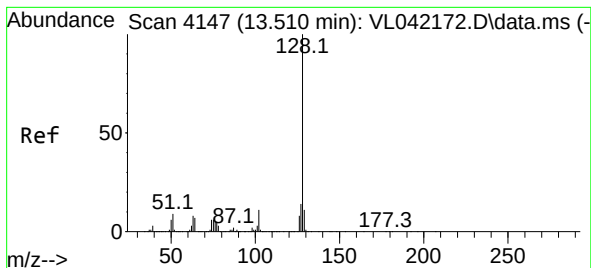
Ion Ratio Lower Upper

225 100

223 62.2 50.6 76.0

227 64.9 51.2 76.8





#79

Naphthalene

Concen: 2.375 ppbv

RT: 13.510 min Scan# 4147

Delta R.T. -0.000 min

Lab File: VL042173.D

Acq: 27 Mar 2025 08:59

Instrument :

MSVOA_1

ClientSampleId :

VSTDIC002

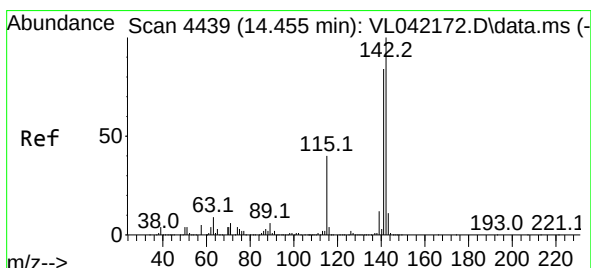
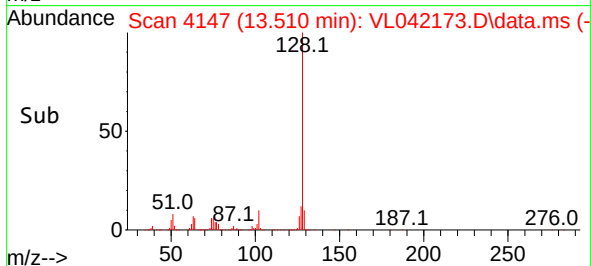
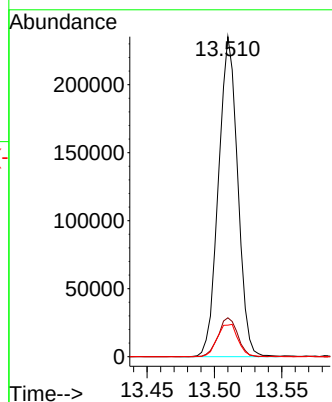
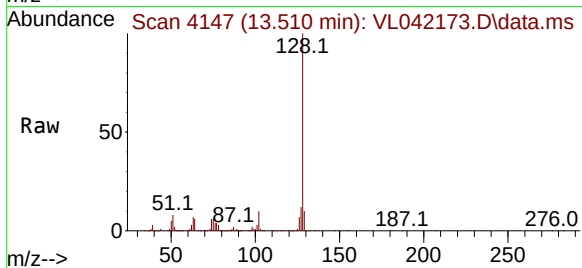
Tgt Ion:128 Resp: 233451

Ion Ratio Lower Upper

128 100

127 12.1 10.8 16.2

129 9.9 9.0 13.4



#80

Naphthalene,2-methyl-

Concen: 2.451 ppbv

RT: 14.455 min Scan# 4439

Delta R.T. -0.000 min

Lab File: VL042173.D

Acq: 27 Mar 2025 08:59

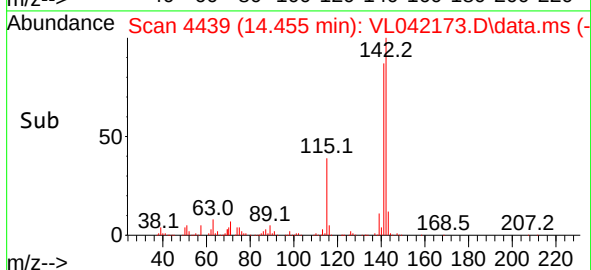
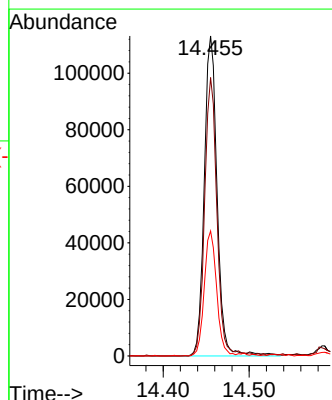
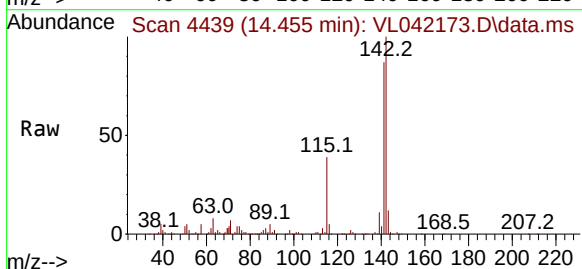
Tgt Ion:142 Resp: 117313

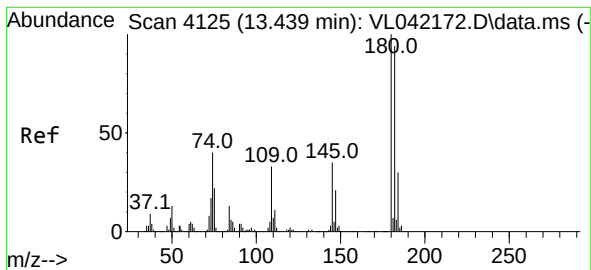
Ion Ratio Lower Upper

142 100

141 83.5 66.3 99.5

115 38.5 31.6 47.4





#81

1,2,4-Trichlorobenzene

Concen: 2.288 ppbv

RT: 13.435 min Scan# 41

Delta R.T. -0.003 min

Lab File: VL042173.D

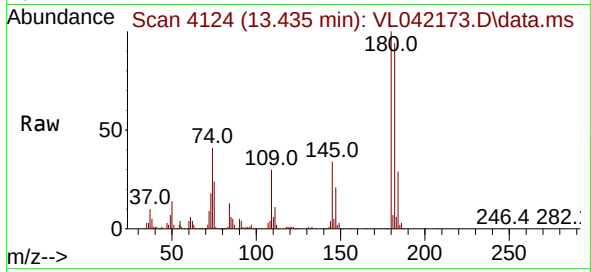
Acq: 27 Mar 2025 08:59

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC002



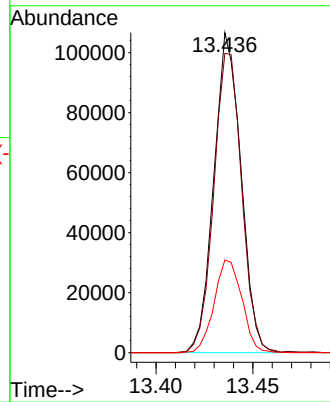
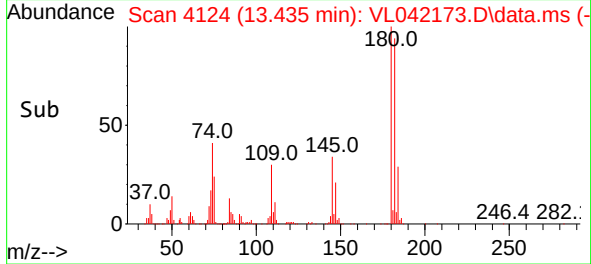
Tgt Ion:180 Resp: 103765

Ion Ratio Lower Upper

180 100

182 97.0 75.1 112.7

184 29.6 24.4 36.6



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
 Data File : VL042174.D
 Acq On : 27 Mar 2025 09:30
 Operator : SY/MD
 Sample : VSTDICC001
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC001

Quant Time: Mar 28 01:33:49 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri Mar 28 01:31:23 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.784	49	186244	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.952	114	537244	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.879	117	499830	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.371	95	404753	9.861	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.600%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.496	85	28203	1.026	ppbv	99
3) Chlorodifluoromethane	1.473	51	28693	1.021	ppbv	94
4) Chloromethane	1.531	50	11111	0.989	ppbv	99
5) Vinyl Chloride	1.577	62	10723	0.936	ppbv	98
6) Bromomethane	1.667	94	4984	0.979	ppbv	97
7) Chloroethane	1.703	64	4622	1.025	ppbv	100
8) Dichlorotetrafluoroethane	1.554	85	23886	1.020	ppbv	98
9) Propene	1.884	41	1465	0.116	ppbv	99
10) Heptane	4.975	43	36132	1.055	ppbv	100
11) Trichlorofluoromethane	1.875	101	27136	1.014	ppbv	96
12) 1,1,2-Trichlorotrifluo...	2.137	101	22629	1.029	ppbv	99
13) Ethanol	1.719	45	935	0.943	ppbv #	1
14) Bromoethene	1.781	108	8330	0.989	ppbv #	82
15) Acetone	1.836	43	29294	1.125	ppbv	95
16) 1,3-Butadiene	1.606	39	13133	1.121	ppbv	97
17) tert-Butyl alcohol	2.040	59	33500	1.033	ppbv	97
18) 1,1-Dichloroethene	2.033	96	10532	1.024	ppbv	89
19) Isopropyl Alcohol	1.884	45	14903	1.014	ppbv #	38
20) Methylene Chloride	2.059	84	10481	1.080	ppbv	93
21) Allyl Chloride	2.095	41	19039	1.036	ppbv	99
22) trans-1,2-Dichloroethene	2.033	96	10532	0.877	ppbv	86
23) Vinyl Acetate	2.464	43	10644	0.983	ppbv #	85
24) 1,1-Dichloroethane	2.409	63	22505	1.022	ppbv	99
25) Ethyl Acetate	2.836	43	67402	0.997	ppbv #	96
26) Hexane	2.823	57	27223	1.043	ppbv	98
27) Carbon Disulfide	2.146	76	28167	1.006	ppbv #	47
28) Methyl tert-Butyl Ether	2.441	73	16501	1.015	ppbv	95
29) Chloroform	2.845	83	38516	1.008	ppbv	96
30) Cyclohexane	3.852	84	23052	1.016	ppbv	97
31) cis-1,2-Dichloroethene	2.716	61	27187	1.026	ppbv	89
32) 1,1,1-Trichloroethane	3.363	97	40993	0.938	ppbv	99
34) 2-Butanone	2.557	43	41423	1.063	ppbv	98
35) Carbon Tetrachloride	3.758	117	39345	0.952	ppbv	93
36) Benzene	3.651	78	55156	1.036	ppbv	94
37) 1,2-Dichloroethane	3.218	62	30543	1.002	ppbv	98
38) Trichloroethene	4.545	130	21906	0.985	ppbv	93
39) 1,2-Dichloropropane	4.312	63	20020	1.032	ppbv	99
40) 1,4-Dioxane	4.593	88	10031	0.997	ppbv #	49
41) Tetrahydrofuran	3.056	42	22818	1.029	ppbv	97
42) Bromodichloromethane	4.483	83	41864	0.996	ppbv	90
43) Methyl Methacrylate	4.875	69	14387	0.640	ppbv #	31
44) 2,2,4-Trimethylpentane	4.632	57	90727	1.008	ppbv	96
45) t-1,3-Dichloropropene	6.412	75	13431	0.555	ppbv	97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
 Data File : VL042174.D
 Acq On : 27 Mar 2025 09:30
 Operator : SY/MD
 Sample : VSTDICC001
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC001

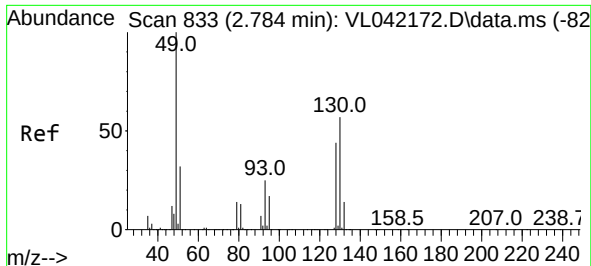
Quant Time: Mar 28 01:33:49 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri Mar 28 01:31:23 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.593	75	30063	1.014	ppbv	93
47) 1,1,2-Trichloroethane	6.577	97	20546	1.002	ppbv	96
48) Dibromochloromethane	7.383	129	34425	0.991	ppbv	100
49) Bromoform	9.481	173	31610	1.013	ppbv	98
50) 4-Methyl-2-Pentanone	5.752	43	34358	0.556	ppbv #	39
51) 2-Hexanone	7.438	43	54680	1.067	ppbv #	100
52) Tetrachloroethene	8.222	164	19415	0.919	ppbv	95
53) Toluene	6.927	91	64612	1.023	ppbv	99
54) 1,2-Dibromoethane	7.652	107	28879	1.009	ppbv	95
56) 1,1,1,2-Tetrachloroethane	8.924	131	28764	1.045	ppbv #	87
57) Chlorobenzene	8.917	112	48930	1.032	ppbv	93
58) Ethyl Benzene	9.348	91	91086	1.026	ppbv	97
59) m/p-Xylene	9.545	91	73295	1.033	ppbv #	31
60) o-Xylene	9.960	91	73702	1.037	ppbv	96
61) Styrene	9.866	104	36110	1.027	ppbv	97
62) Isopropylbenzene	10.536	105	109897	1.034	ppbv	98
63) 1,1,2,2-Tetrachloroethane	9.960	83	44431	1.029	ppbv	99
64) n-propylbenzene	10.986	120	29054	1.062	ppbv	98
65) tert-Butylbenzene	11.526	119	103520	1.053	ppbv	96
66) Benzyl Chloride	11.614	91	10660	1.022	ppbv #	93
67) sec-Butylbenzene	11.762	105	149660	1.095	ppbv	97
69) p-Isopropyltoluene	11.921	119	127509	1.084	ppbv	99
70) n-Butylbenzene	12.280	91	129860	1.079	ppbv	99
71) 2-Chlorotoluene	10.898	91	86356	1.047	ppbv	100
72) 4-Ethyltoluene	11.122	105	92912	1.050	ppbv	99
73) 1,3,5-Trimethylbenzene	11.199	105	83497	1.080	ppbv	92
74) 1,2,4-Trimethylbenzene	11.533	105	97858	1.099	ppbv	94
75) 1,3-Dichlorobenzene	11.604	146	51096	1.046	ppbv	99
76) 1,4-Dichlorobenzene	11.669	146	50841	1.046	ppbv	99
77) 1,2-Dichlorobenzene	11.944	146	51523	1.084	ppbv	99
78) Hexachloro-1,3-Butadiene	13.879	225	55611	1.149	ppbv	97
79) Naphthalene	13.510	128	109031	1.120	ppbv	99
80) Naphthalene,2-methyl-	14.455	142	44518	0.939	ppbv	99
81) 1,2,4-Trichlorobenzene	13.436	180	47040	1.047	ppbv	98

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

Quant Time: Mar 28 01:33:49 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Mar 28 01:31:23 2025
Response via : Initial Calibration

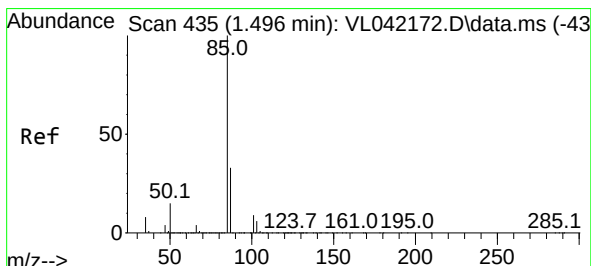
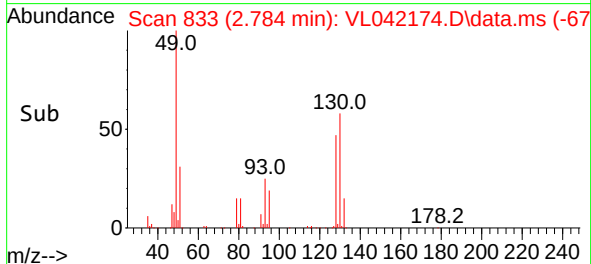
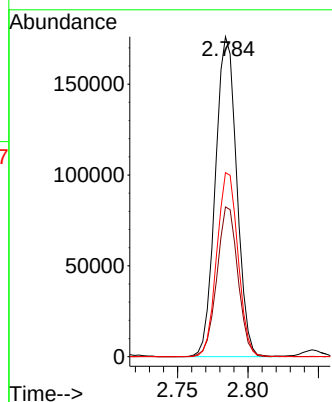
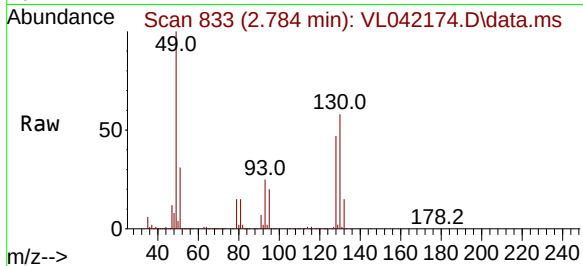




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 833
Delta R.T. 0.000 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

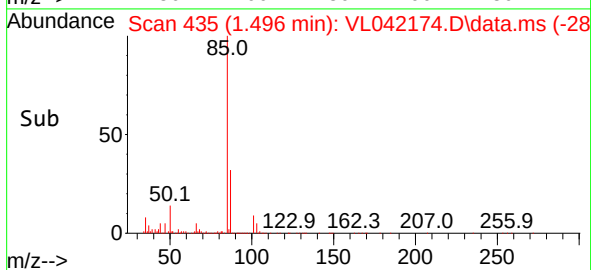
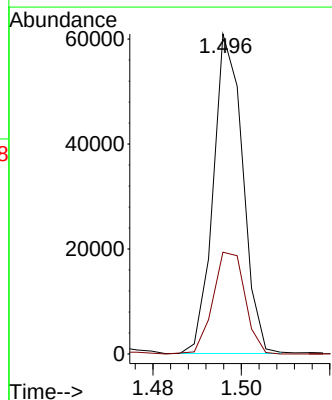
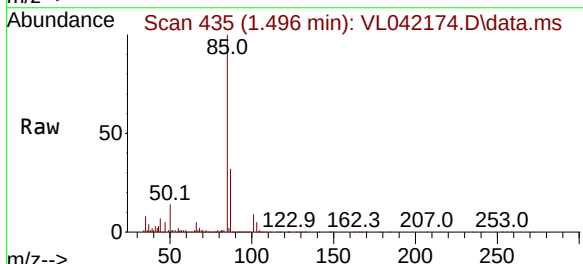
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

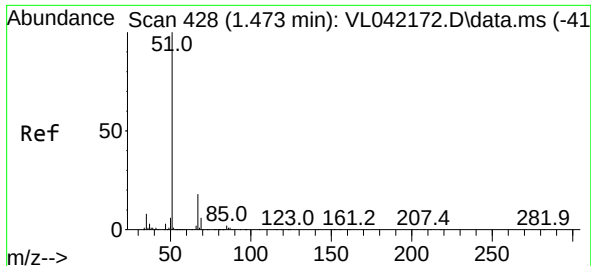
Tgt Ion: 49 Resp: 186244
Ion Ratio Lower Upper
49 100
128 46.2 22.9 68.5
130 57.0 28.8 86.4



#2
Dichlorodifluoromethane
Concen: 1.026 ppbv
RT: 1.496 min Scan# 435
Delta R.T. 0.000 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

Tgt Ion: 85 Resp: 28203
Ion Ratio Lower Upper
85 100
87 31.9 26.1 39.1

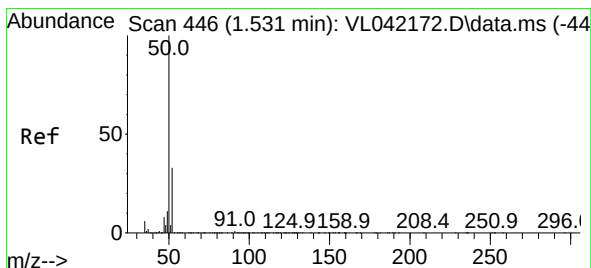
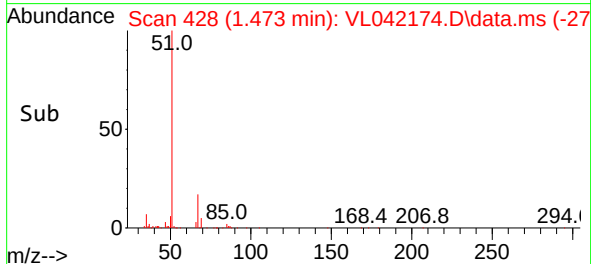
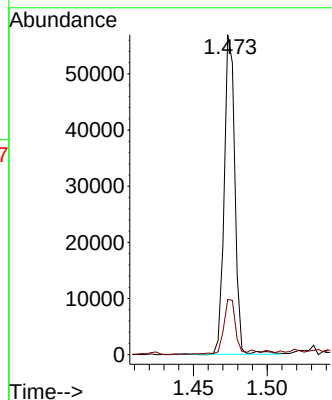
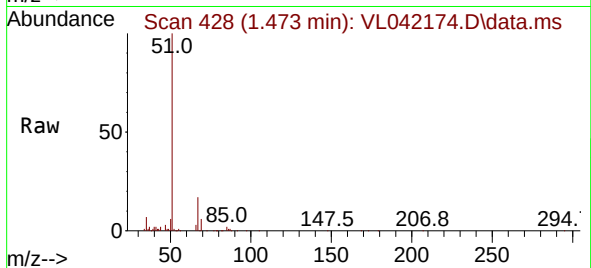




#3
Chlorodifluoromethane
Concen: 1.021 ppbv
RT: 1.473 min Scan# 41
Delta R.T. 0.000 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

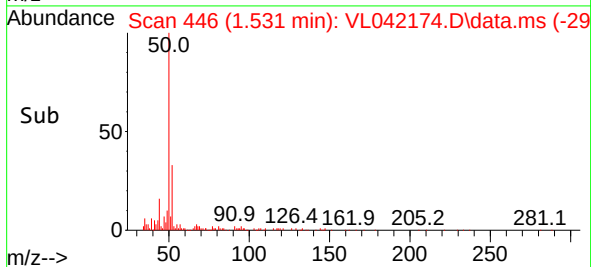
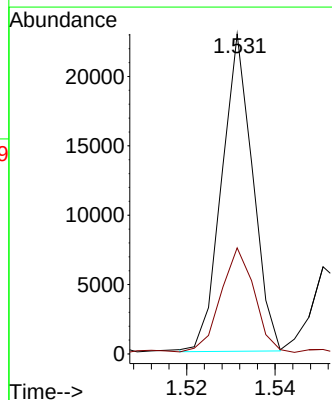
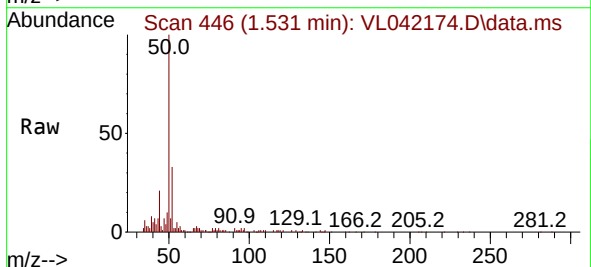
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

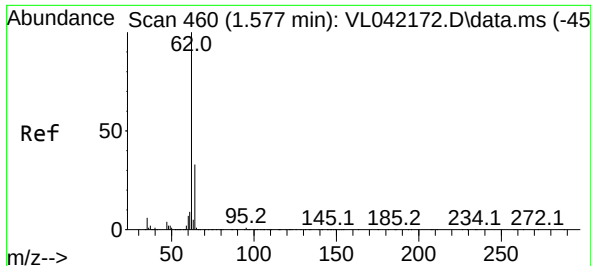
Tgt Ion: 51 Resp: 28693
Ion Ratio Lower Upper
51 100
67 21.5 15.0 22.6



#4
Chloromethane
Concen: 0.989 ppbv
RT: 1.531 min Scan# 446
Delta R.T. 0.000 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

Tgt Ion: 50 Resp: 11111
Ion Ratio Lower Upper
50 100
52 32.9 26.1 39.1

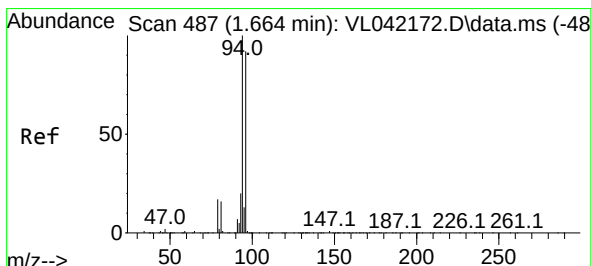
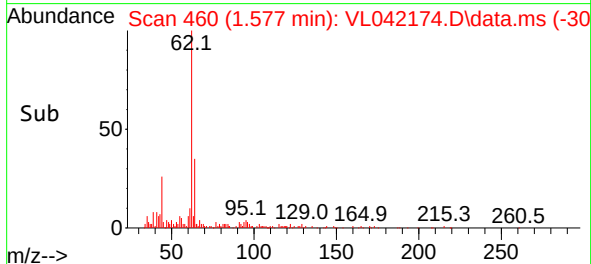
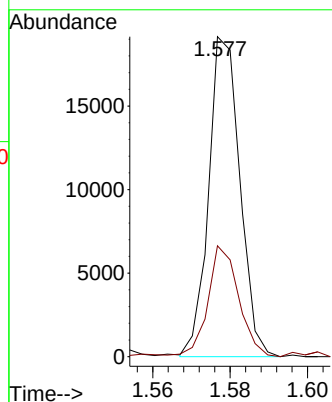
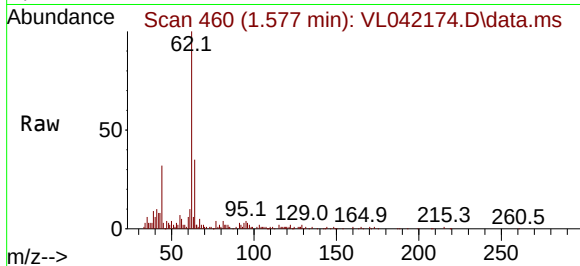




#5
 Vinyl Chloride
 Concen: 0.936 ppbv
 RT: 1.577 min Scan# 460
 Delta R.T. 0.000 min
 Lab File: VL042174.D
 Acq: 27 Mar 2025 09:30

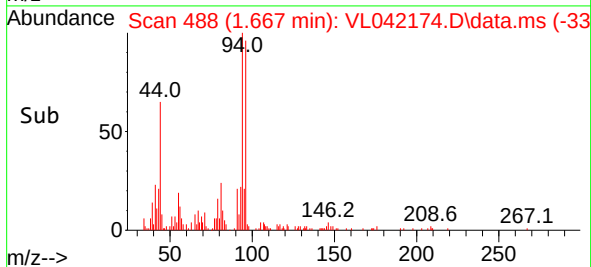
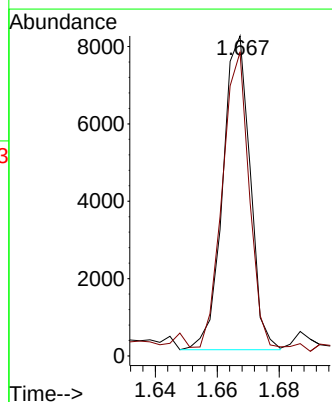
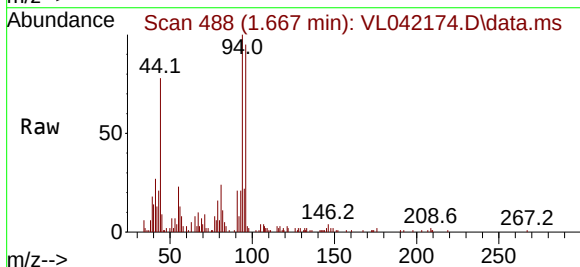
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC001

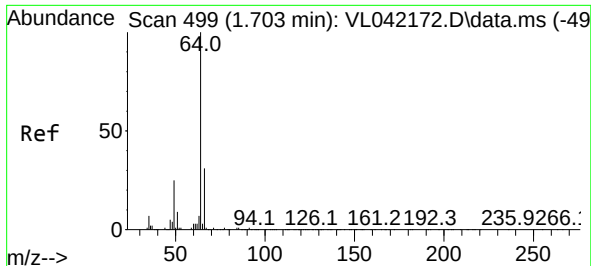
Tgt Ion: 62 Resp: 10723
 Ion Ratio Lower Upper
 62 100
 64 34.6 26.6 40.0



#6
 Bromomethane
 Concen: 0.979 ppbv
 RT: 1.667 min Scan# 488
 Delta R.T. 0.003 min
 Lab File: VL042174.D
 Acq: 27 Mar 2025 09:30

Tgt Ion: 94 Resp: 4984
 Ion Ratio Lower Upper
 94 100
 96 93.8 73.1 109.7

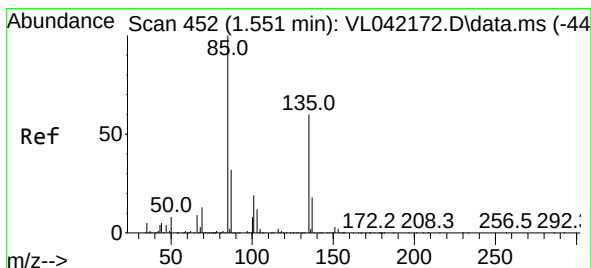
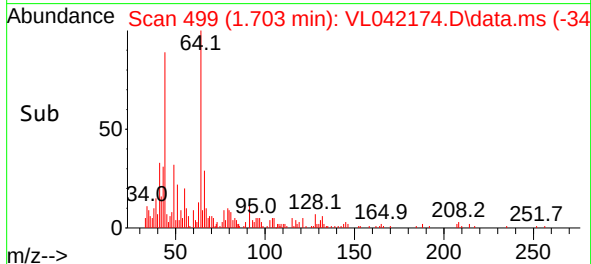
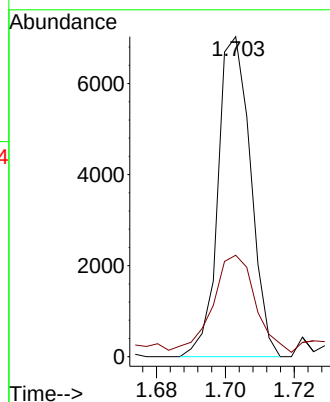
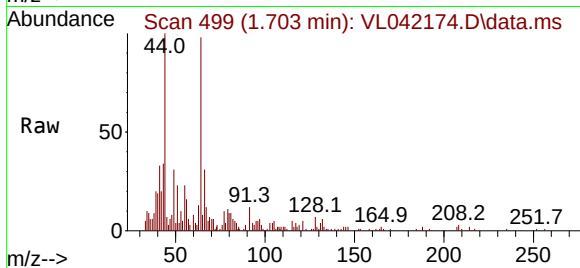




#7
Chloroethane
Concen: 1.025 ppbv
RT: 1.703 min Scan# 499
Delta R.T. 0.000 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

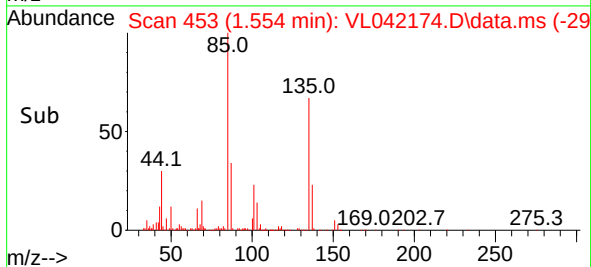
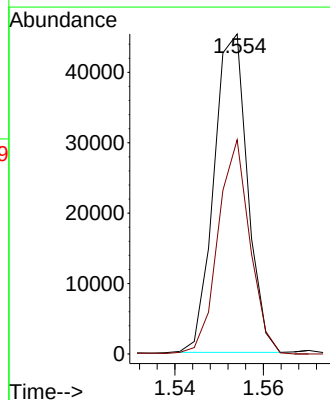
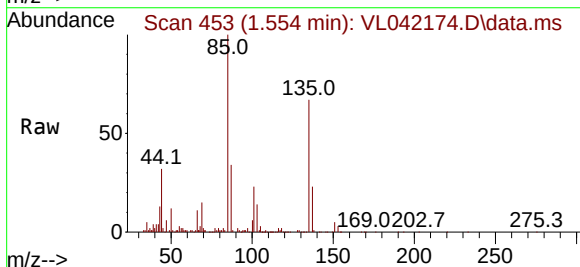
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC001

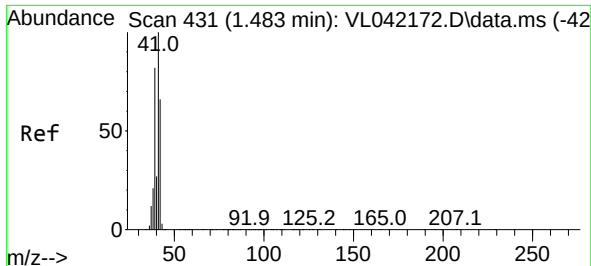
Tgt Ion: 64 Resp: 4622
Ion Ratio Lower Upper
64 100
66 31.7 25.2 37.8



#8
Dichlorotetrafluoroethane
Concen: 1.020 ppbv
RT: 1.554 min Scan# 453
Delta R.T. 0.003 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

Tgt Ion: 85 Resp: 23886
Ion Ratio Lower Upper
85 100
135 64.2 52.4 78.6





#9

Propene

Concen: 0.116 ppbv

RT: 1.884 min Scan# 510

Delta R.T. 0.401 min

Lab File: VL042174.D

Acq: 27 Mar 2025 09:30

Instrument :

MSVOA_1

ClientSampleId :

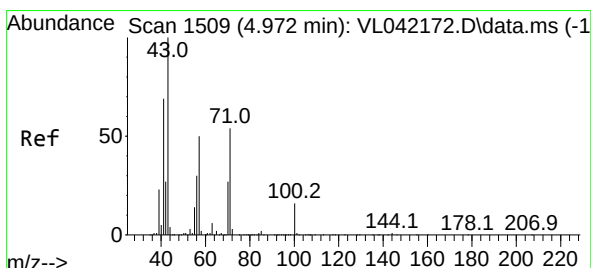
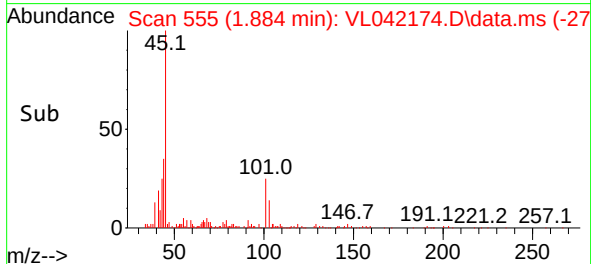
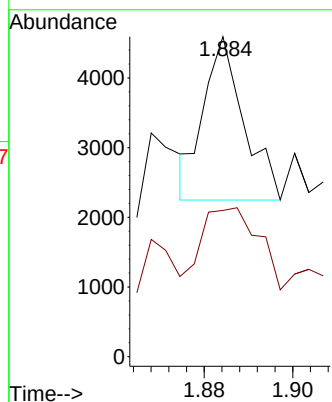
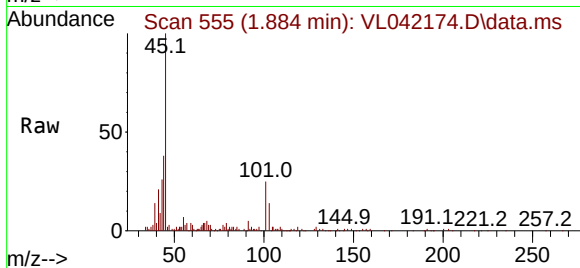
VSTDIC001

Tgt Ion: 41 Resp: 1465

Ion Ratio Lower Upper

41 100

42 69.8 55.4 83.2



#10

Heptane

Concen: 1.055 ppbv

RT: 4.975 min Scan# 1510

Delta R.T. 0.003 min

Lab File: VL042174.D

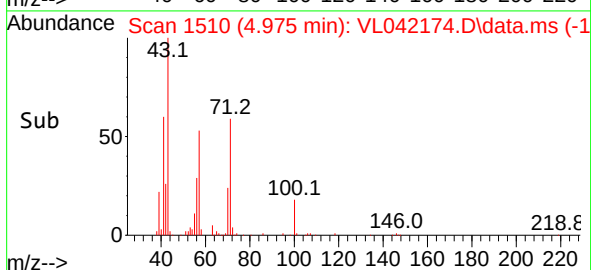
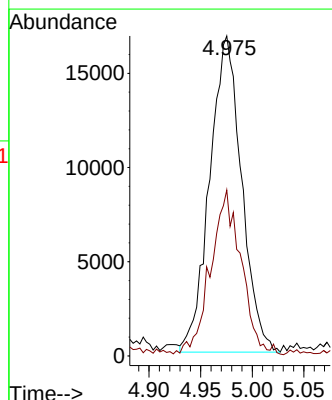
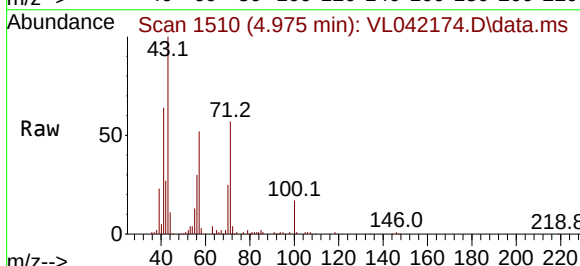
Acq: 27 Mar 2025 09:30

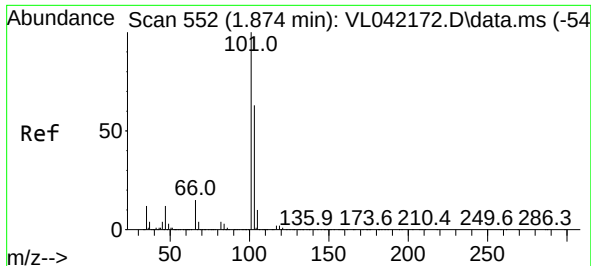
Tgt Ion: 43 Resp: 36132

Ion Ratio Lower Upper

43 100

57 49.6 39.4 59.2

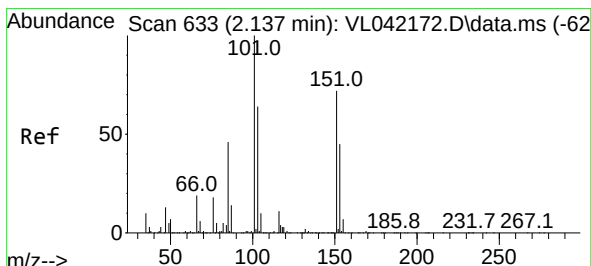
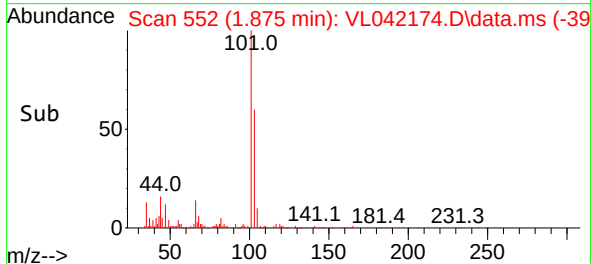
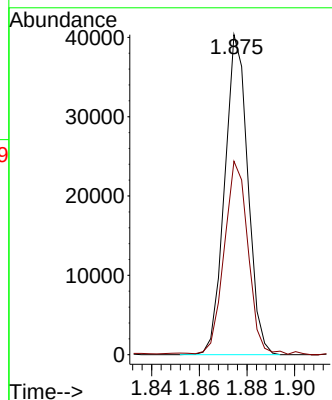
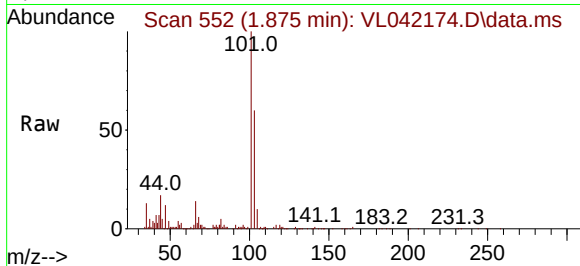




#11
 Trichlorofluoromethane
 Concen: 1.014 ppbv
 RT: 1.875 min Scan# 511
 Delta R.T. 0.000 min
 Lab File: VL042174.D
 Acq: 27 Mar 2025 09:30

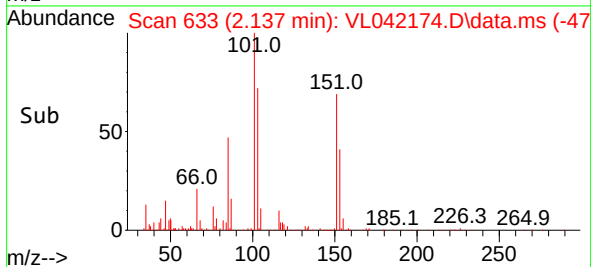
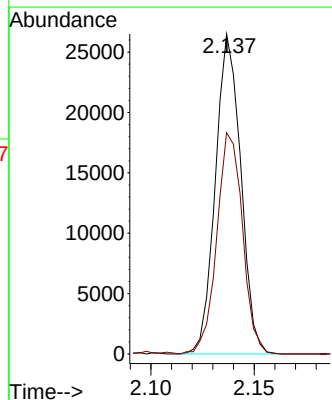
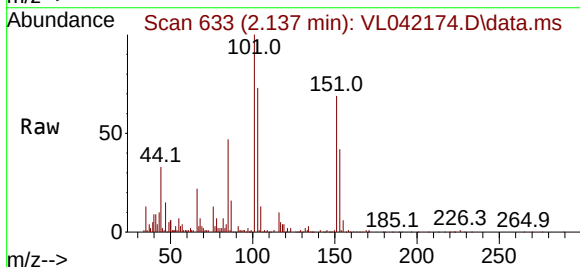
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC001

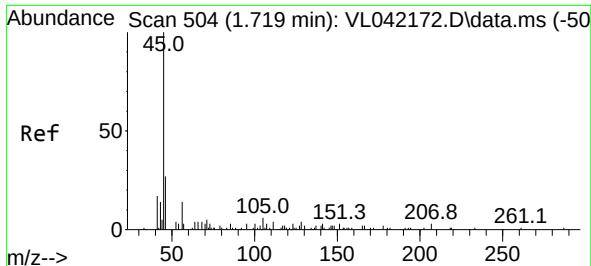
Tgt Ion:101 Resp: 27136
 Ion Ratio Lower Upper
 101 100
 103 59.9 50.2 75.2



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 1.029 ppbv
 RT: 2.137 min Scan# 633
 Delta R.T. 0.000 min
 Lab File: VL042174.D
 Acq: 27 Mar 2025 09:30

Tgt Ion:101 Resp: 22629
 Ion Ratio Lower Upper
 101 100
 151 70.3 57.1 85.7

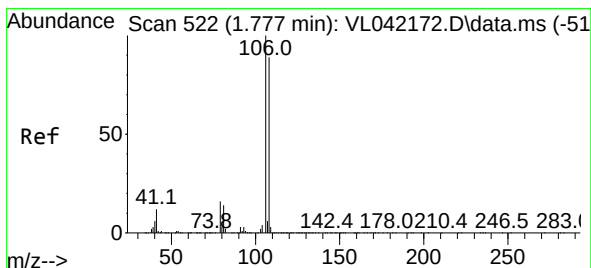
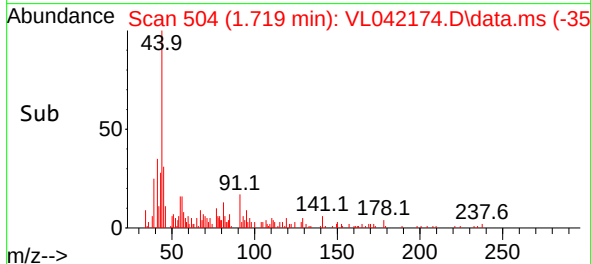
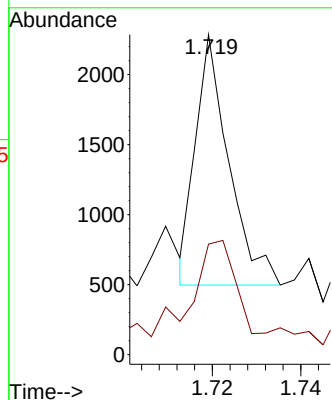
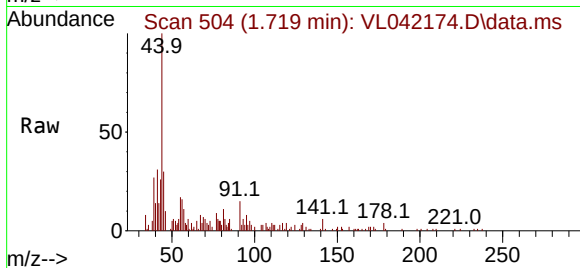




#13
 Ethanol
 Concen: 0.943 ppbv
 RT: 1.719 min Scan# 504
 Delta R.T. 0.000 min
 Lab File: VL042174.D
 Acq: 27 Mar 2025 09:30

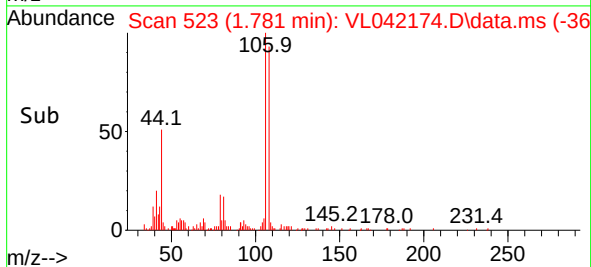
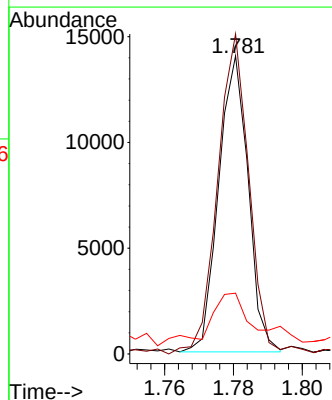
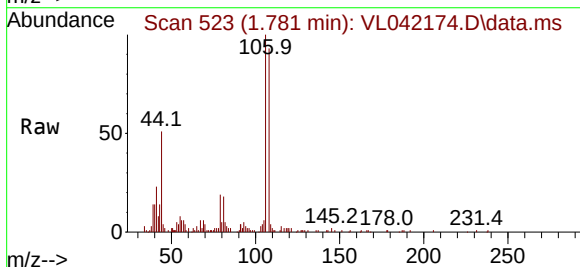
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC001

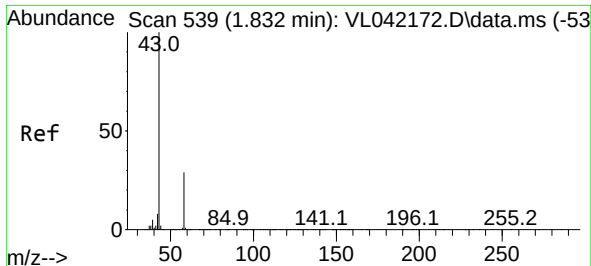
Tgt Ion: 45 Resp: 935
 Ion Ratio Lower Upper
 45 100
 46 126.3 20.2 80.8#



#14
 Bromoethene
 Concen: 0.989 ppbv
 RT: 1.781 min Scan# 523
 Delta R.T. 0.003 min
 Lab File: VL042174.D
 Acq: 27 Mar 2025 09:30

Tgt Ion: 108 Resp: 8330
 Ion Ratio Lower Upper
 108 100
 106 115.2 86.8 130.2
 79 57.0 15.0 22.6#

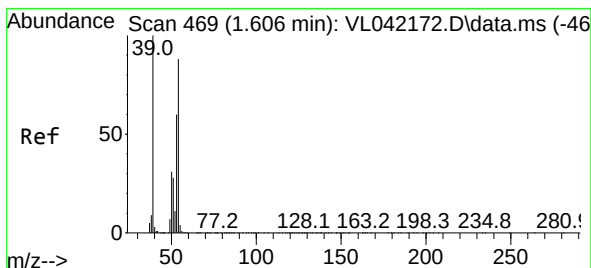
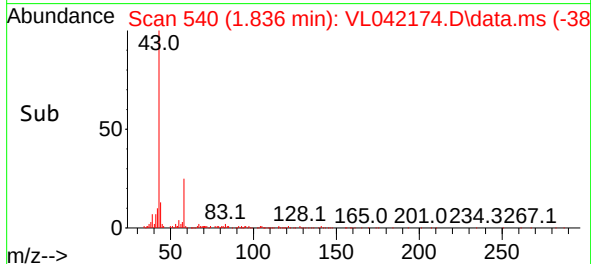
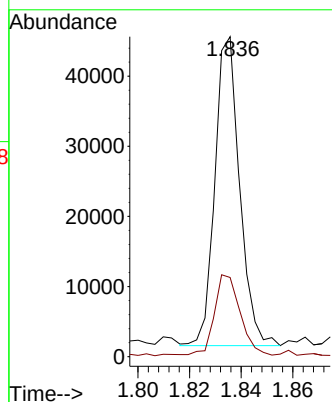
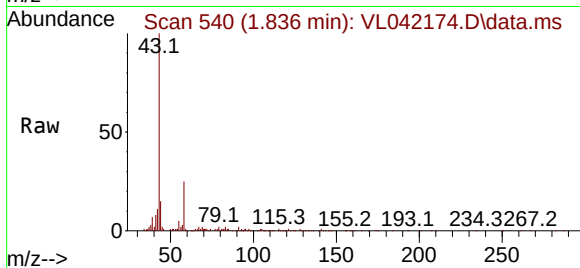




#15
Acetone
Concen: 1.125 ppbv
RT: 1.836 min Scan# 540
Delta R.T. 0.003 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

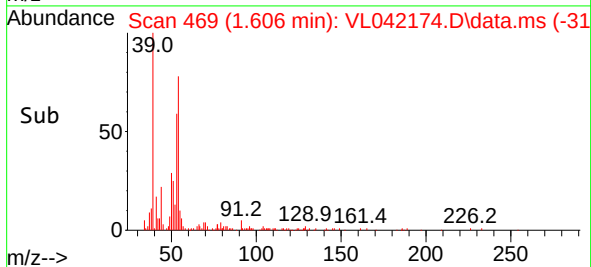
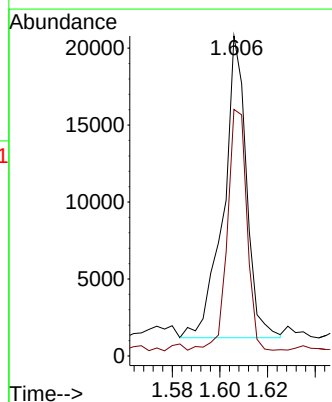
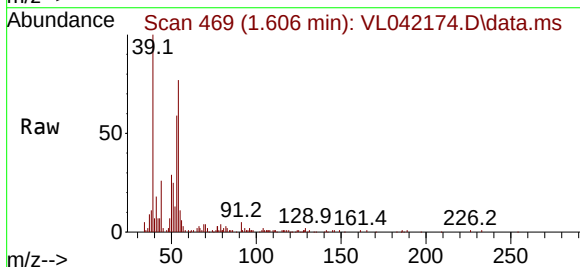
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC001

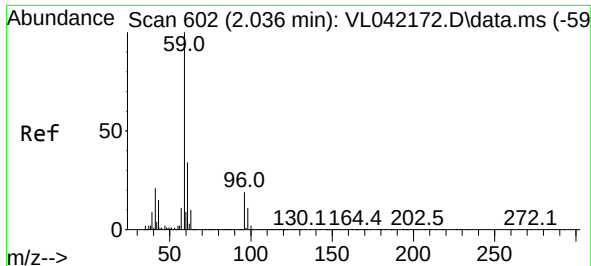
Tgt Ion: 43 Resp: 29294
Ion Ratio Lower Upper
43 100
58 31.6 23.2 34.8



#16
1,3-Butadiene
Concen: 1.121 ppbv
RT: 1.606 min Scan# 469
Delta R.T. 0.000 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

Tgt Ion: 39 Resp: 13133
Ion Ratio Lower Upper
39 100
54 73.5 60.7 91.1





#17

tert-Butyl alcohol

Concen: 1.033 ppbv

RT: 2.040 min Scan# 602

Delta R.T. 0.003 min

Lab File: VL042174.D

Acq: 27 Mar 2025 09:30

Instrument :

MSVOA_1

ClientSampleId :

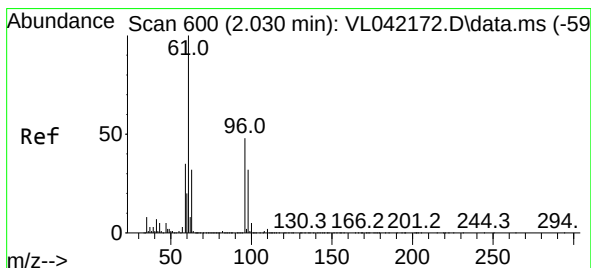
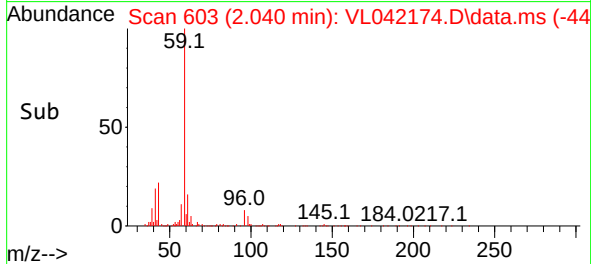
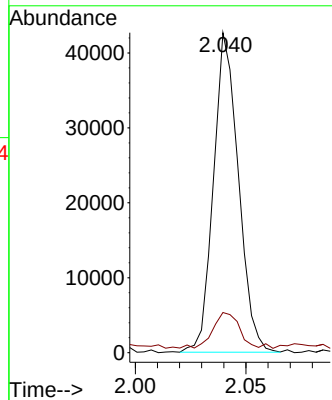
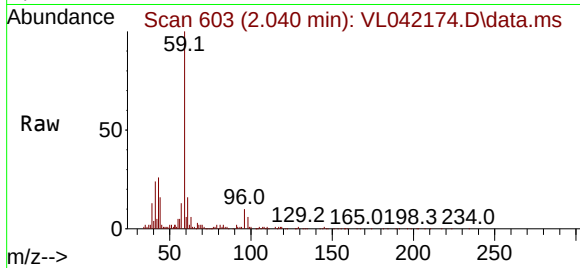
VSTDIC001

Tgt Ion: 59 Resp: 33500

Ion Ratio Lower Upper

59 100

57 12.3 8.9 13.3



#18

1,1-Dichloroethene

Concen: 1.024 ppbv

RT: 2.033 min Scan# 601

Delta R.T. 0.003 min

Lab File: VL042174.D

Acq: 27 Mar 2025 09:30

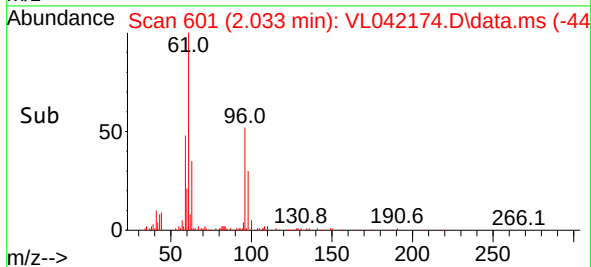
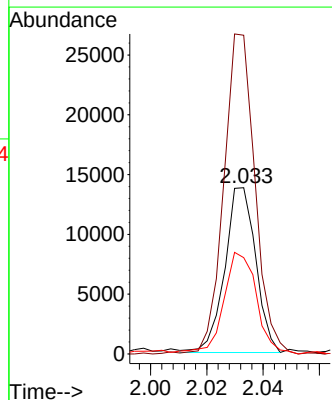
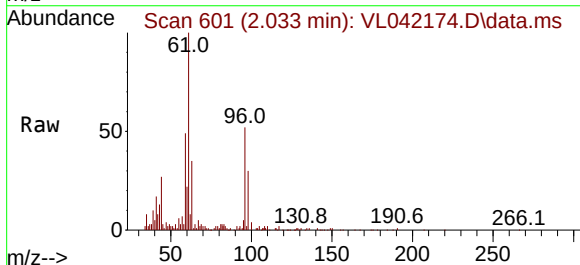
Tgt Ion: 96 Resp: 10532

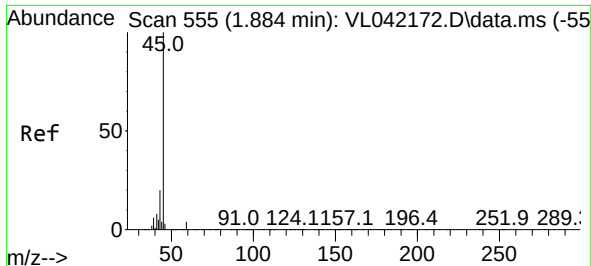
Ion Ratio Lower Upper

96 100

61 192.9 167.6 251.4

98 56.7 53.5 80.3

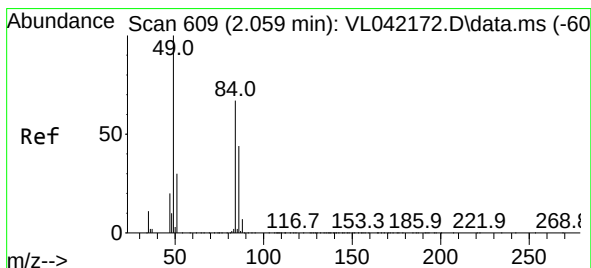
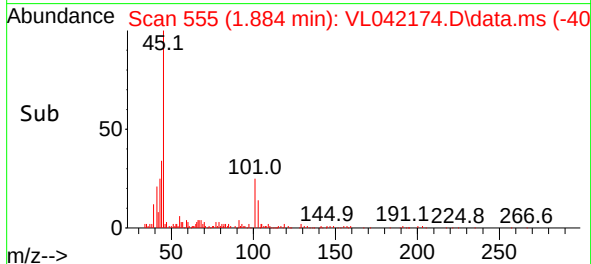
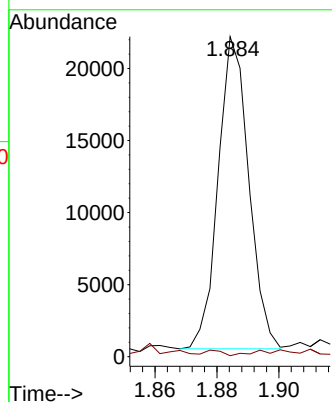
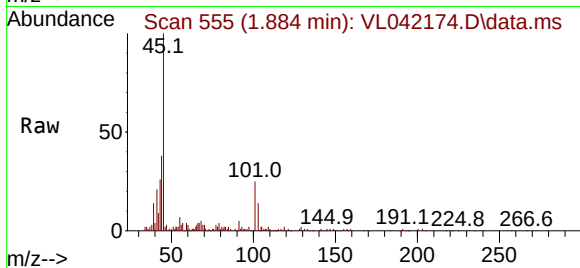




#19
Isopropyl Alcohol
Concen: 1.014 ppbv
RT: 1.884 min Scan# 511
Delta R.T. 0.000 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

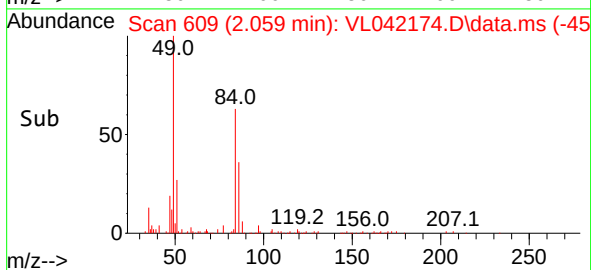
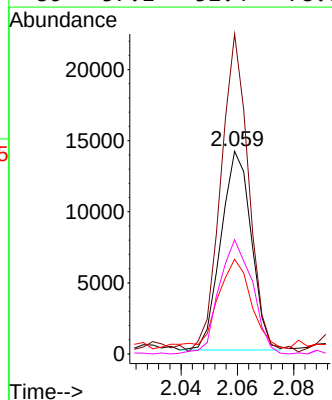
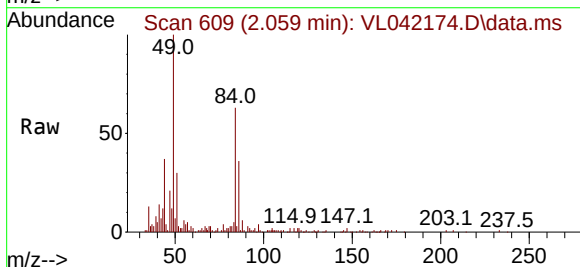
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

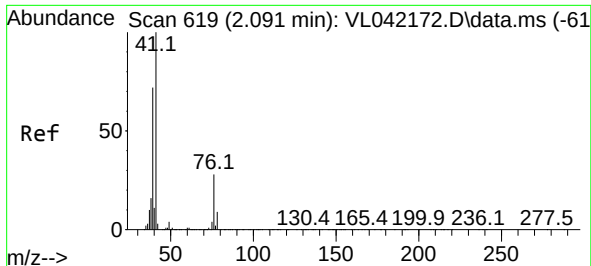
Tgt Ion: 45 Resp: 14903
Ion Ratio Lower Upper
45 100
58 4.9 36.9 55.3#



#20
Methylene Chloride
Concen: 1.080 ppbv
RT: 2.059 min Scan# 609
Delta R.T. 0.000 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

Tgt Ion: 84 Resp: 10481
Ion Ratio Lower Upper
84 100
49 158.3 120.2 180.4
51 44.3 37.4 56.0
86 57.1 52.4 78.6





#21

Allyl Chloride

Concen: 1.036 ppbv

RT: 2.095 min Scan# 61

Delta R.T. 0.003 min

Lab File: VL042174.D

Acq: 27 Mar 2025 09:30

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

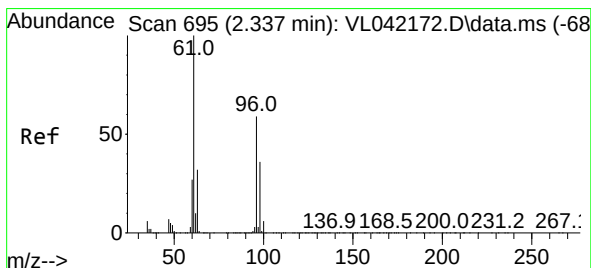
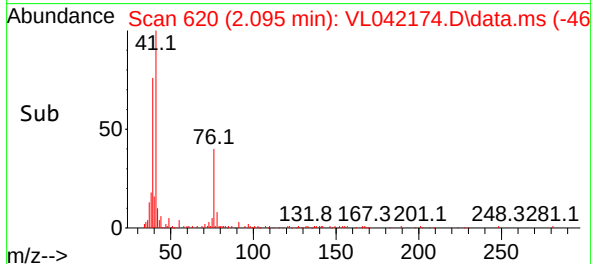
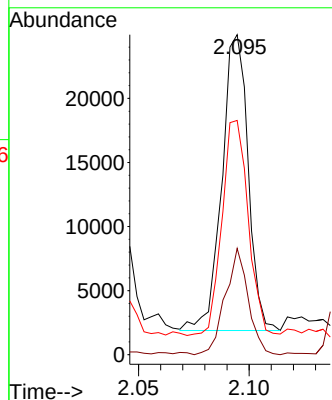
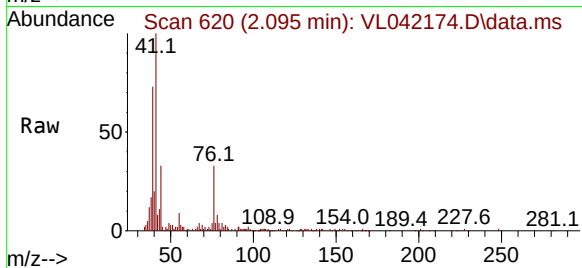
Tgt Ion: 41 Resp: 19039

Ion Ratio Lower Upper

41 100

76 30.5 24.1 36.1

39 77.8 61.1 91.7



#22

trans-1,2-Dichloroethene

Concen: 0.877 ppbv

RT: 2.033 min Scan# 601

Delta R.T. -0.304 min

Lab File: VL042174.D

Acq: 27 Mar 2025 09:30

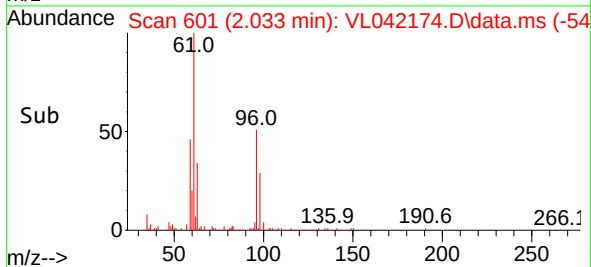
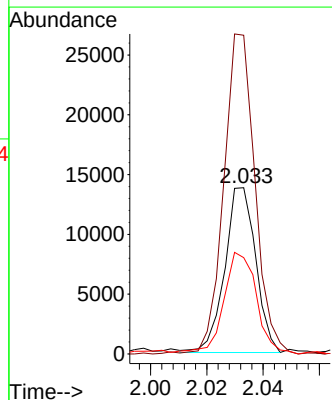
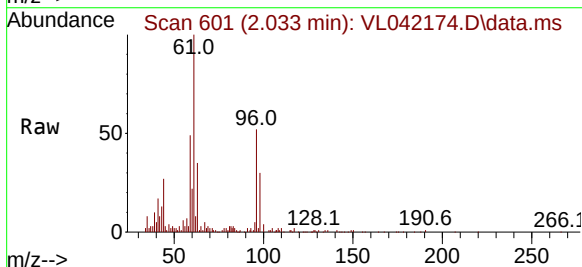
Tgt Ion: 96 Resp: 10532

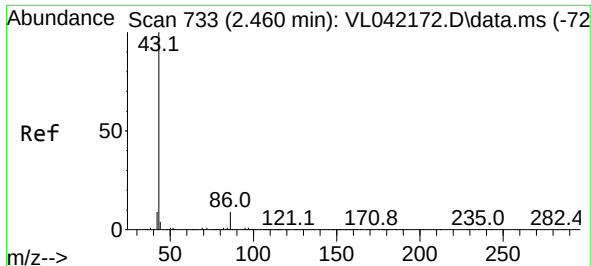
Ion Ratio Lower Upper

96 100

61 192.9 136.6 204.8

98 56.7 49.4 74.2

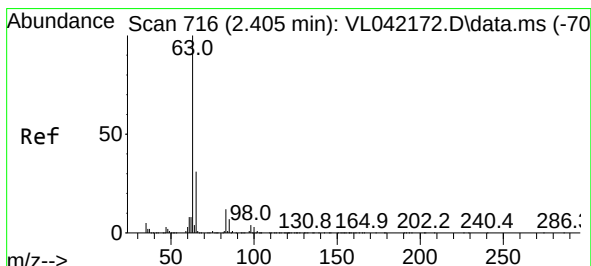
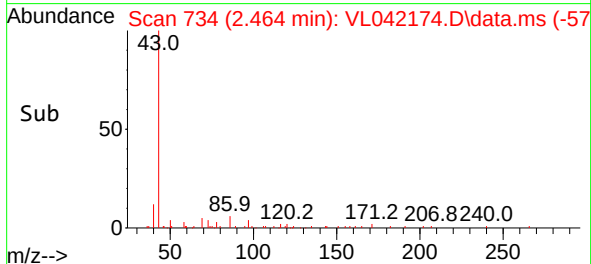
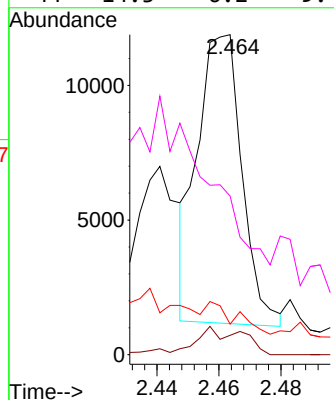
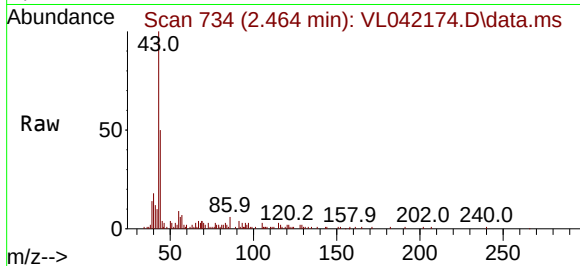




#23
 Vinyl Acetate
 Concen: 0.983 ppbv
 RT: 2.464 min Scan# 716
 Delta R.T. 0.003 min
 Lab File: VL042174.D
 Acq: 27 Mar 2025 09:30

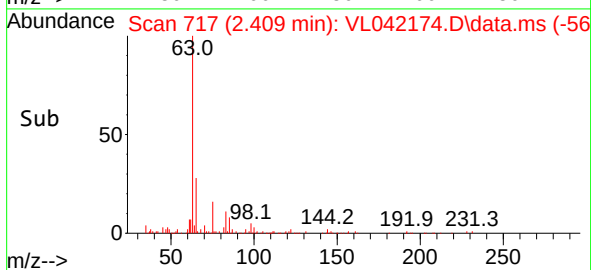
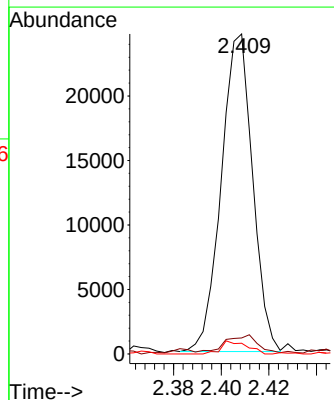
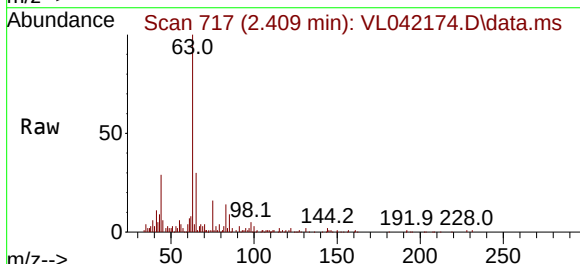
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC001

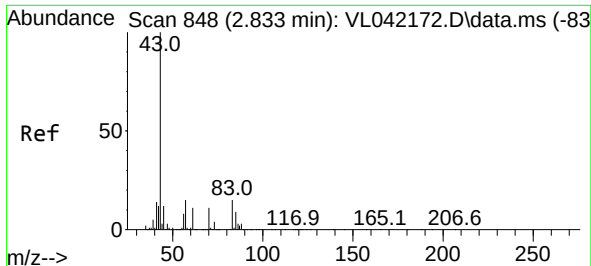
Tgt Ion:	43	Resp:	10644
Ion	Ratio	Lower	Upper
43	100		
86	6.9	5.5	8.3
42	2.4	8.6	13.0#
44	14.3	6.2	9.4#



#24
 1,1-Dichloroethane
 Concen: 1.022 ppbv
 RT: 2.409 min Scan# 717
 Delta R.T. 0.003 min
 Lab File: VL042174.D
 Acq: 27 Mar 2025 09:30

Tgt Ion:	63	Resp:	22505
Ion	Ratio	Lower	Upper
63	100		
98	4.6	2.3	6.8
100	3.4	1.6	4.7

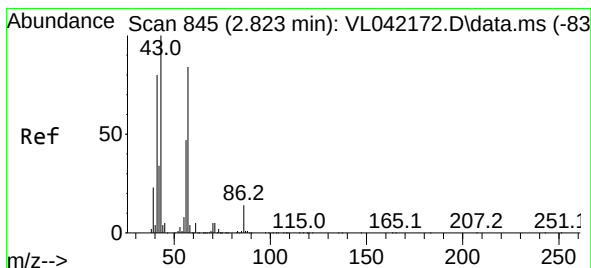
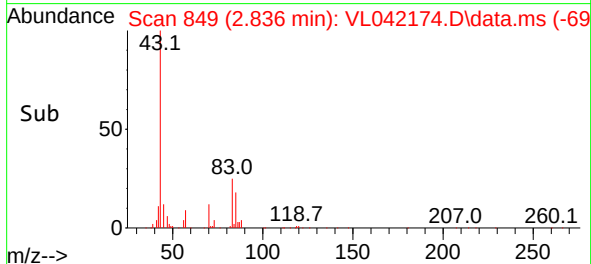
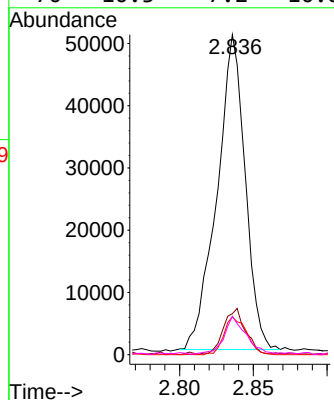
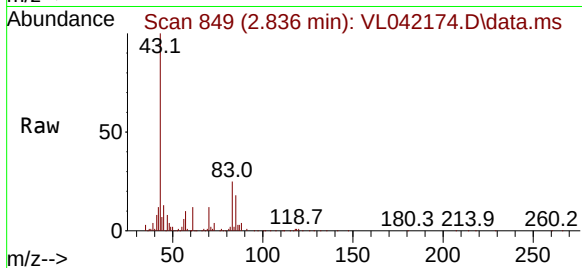




#25
Ethyl Acetate
Concen: 0.997 ppbv
RT: 2.836 min Scan# 848
Delta R.T. 0.003 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

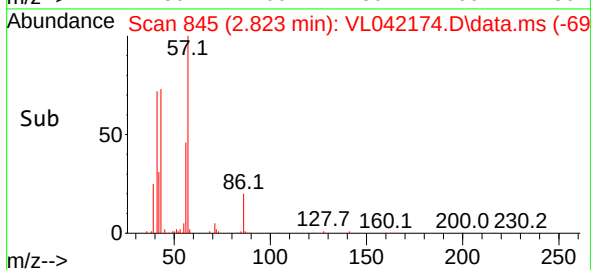
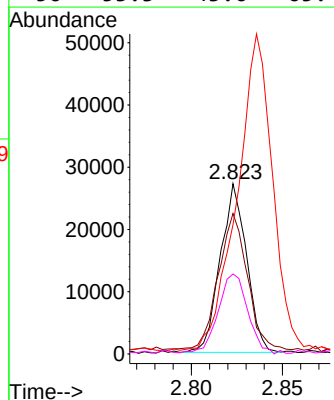
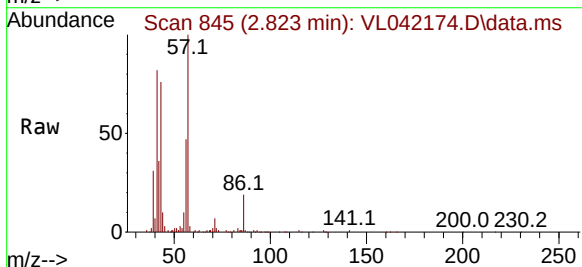
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC001

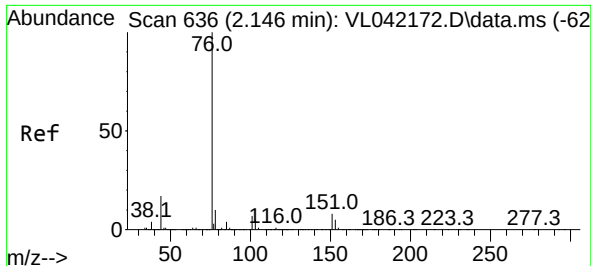
Tgt Ion: 43	Resp: 67402
Ion Ratio	Lower Upper
43 100	
45 12.3	8.2 12.2#
61 9.6	7.3 10.9
70 10.3	7.2 10.8



#26
Hexane
Concen: 1.043 ppbv
RT: 2.823 min Scan# 845
Delta R.T. 0.000 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

Tgt Ion: 57	Resp: 27223		
Ion	Ratio	Lower	Upper
57	100		
41	93.5	76.6	114.8
43	256.9	207.8	311.8
56	53.3	43.6	65.4

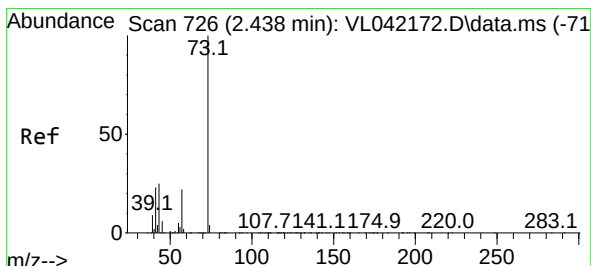
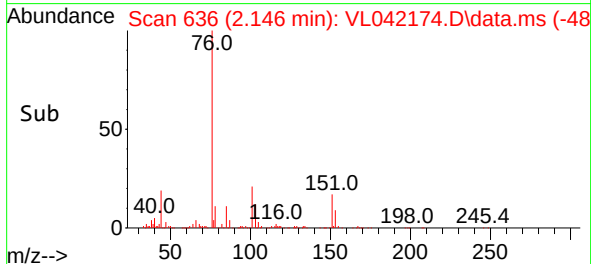
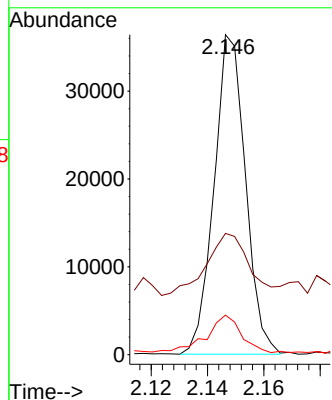
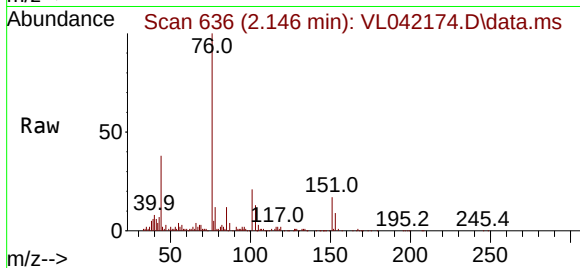




#27
Carbon Disulfide
Concen: 1.006 ppbv
RT: 2.146 min Scan# 611
Delta R.T. 0.000 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

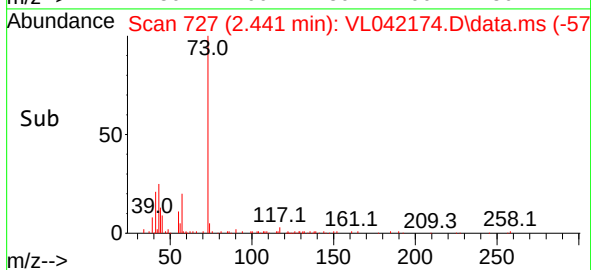
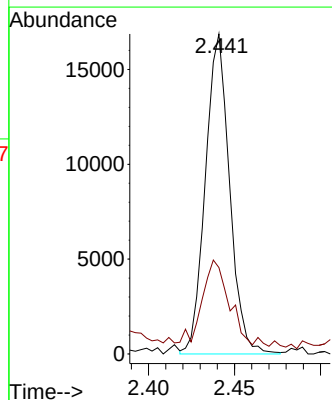
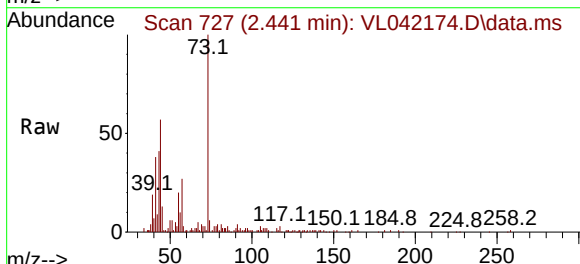
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC001

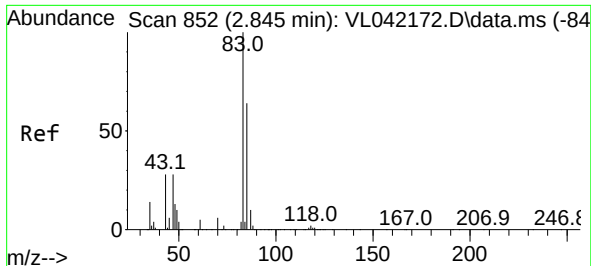
Tgt Ion: 76 Resp: 28167
Ion Ratio Lower Upper
76 100
44 54.6 14.7 22.1#
78 15.0 9.3 13.9#



#28
Methyl tert-Butyl Ether
Concen: 1.015 ppbv
RT: 2.441 min Scan# 727
Delta R.T. 0.003 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

Tgt Ion: 73 Resp: 16501
Ion Ratio Lower Upper
73 100
57 28.0 20.5 30.7

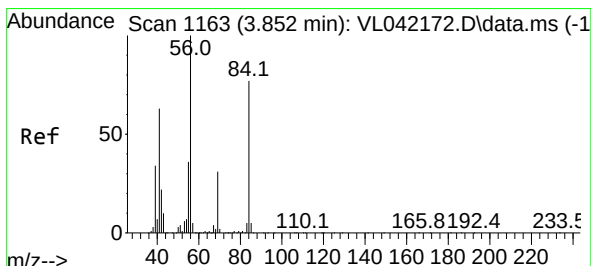
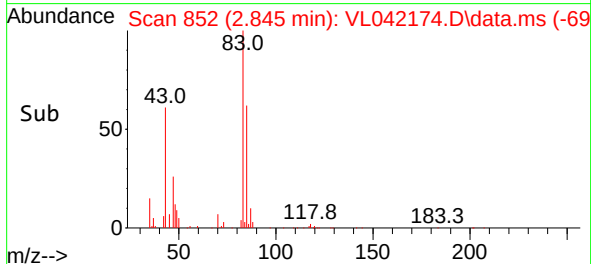
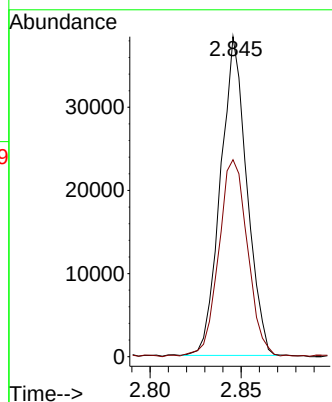
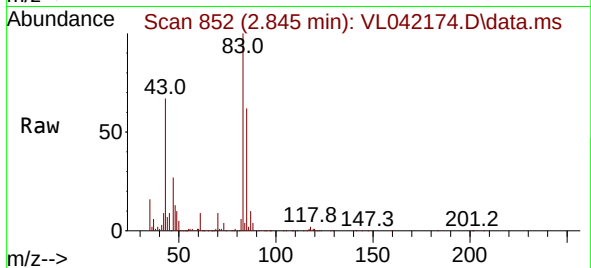




#29
Chloroform
Concen: 1.008 ppbv
RT: 2.845 min Scan# 852
Delta R.T. 0.000 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

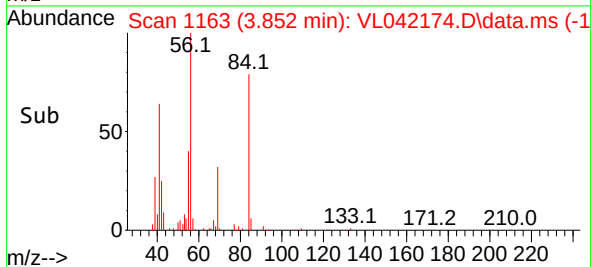
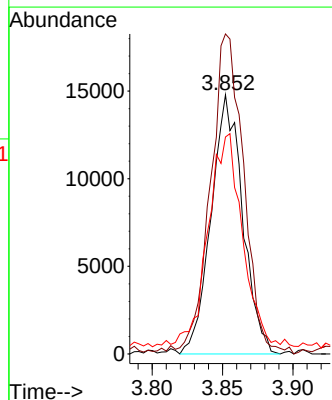
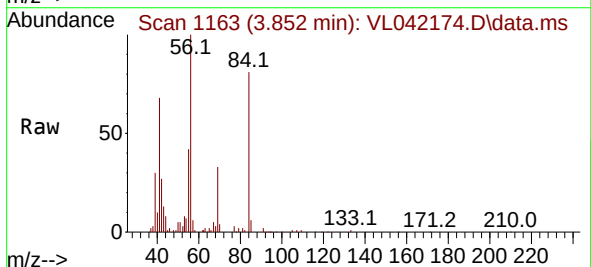
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

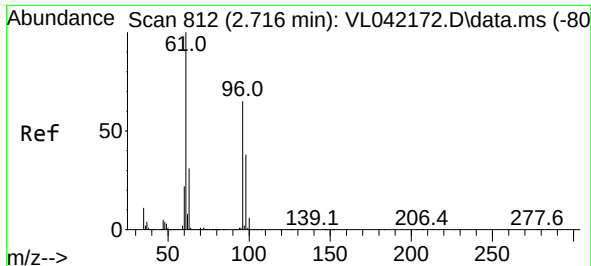
Tgt Ion: 83 Resp: 38516
Ion Ratio Lower Upper
83 100
85 61.6 51.4 77.2



#30
Cyclohexane
Concen: 1.016 ppbv
RT: 3.852 min Scan# 1163
Delta R.T. 0.000 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

Tgt Ion: 84 Resp: 23052
Ion Ratio Lower Upper
84 100
56 128.9 102.8 154.2
41 89.3 66.5 99.7

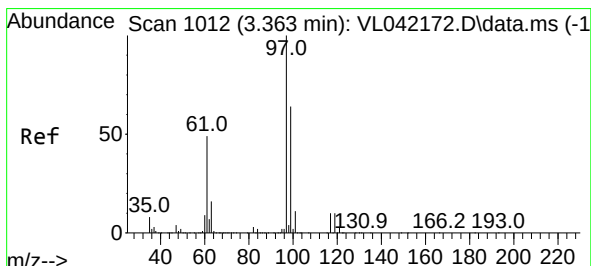
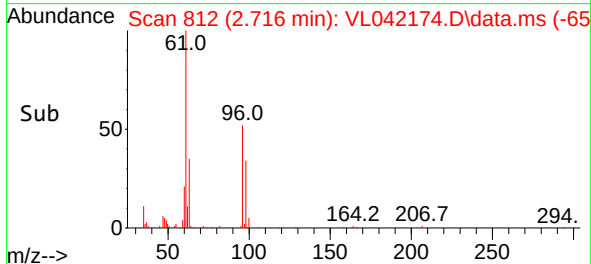
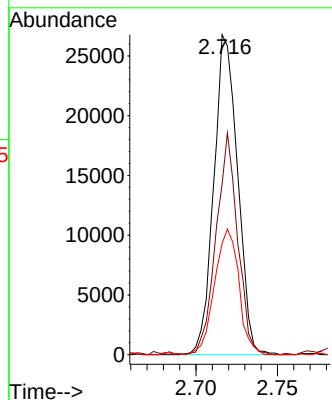
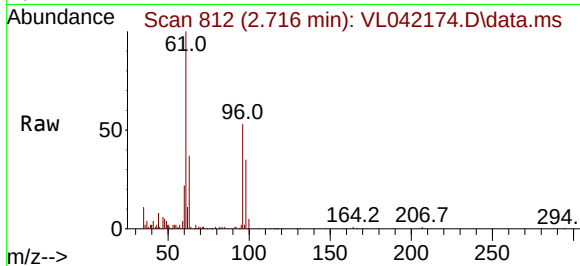




#31
 cis-1,2-Dichloroethene
 Concen: 1.026 ppbv
 RT: 2.716 min Scan# 812
 Delta R.T. 0.000 min
 Lab File: VL042174.D
 Acq: 27 Mar 2025 09:30

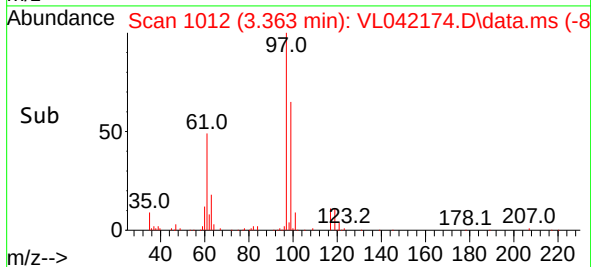
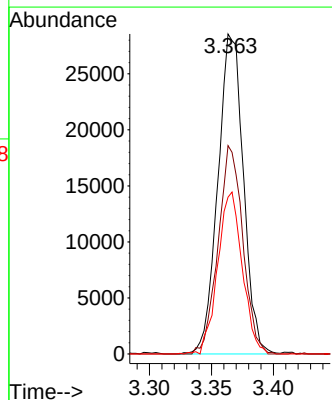
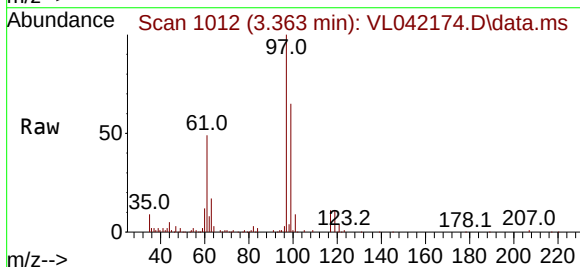
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

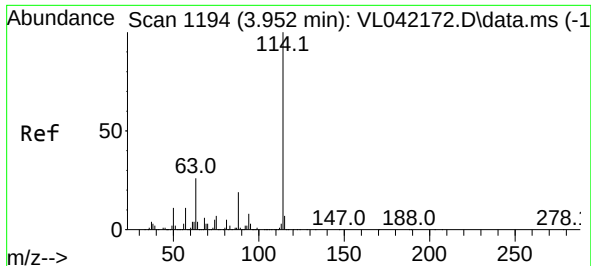
Tgt Ion: 61 Resp: 27187
 Ion Ratio Lower Upper
 61 100
 96 53.3 51.8 77.8
 98 34.8 30.6 46.0



#32
 1,1,1-Trichloroethane
 Concen: 0.938 ppbv
 RT: 3.363 min Scan# 1012
 Delta R.T. 0.000 min
 Lab File: VL042174.D
 Acq: 27 Mar 2025 09:30

Tgt Ion: 97 Resp: 40993
 Ion Ratio Lower Upper
 97 100
 99 63.0 51.5 77.3
 61 48.8 38.7 58.1

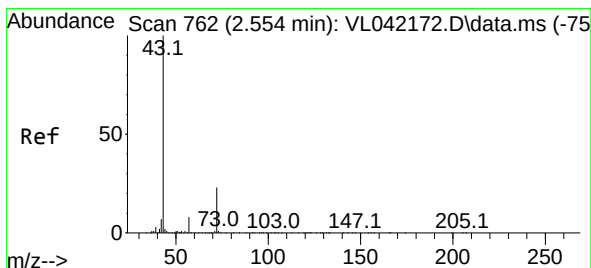
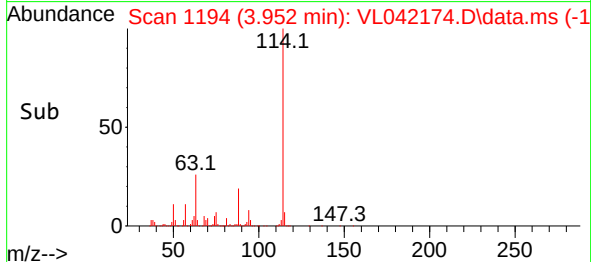
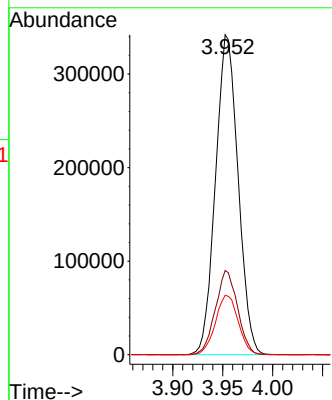
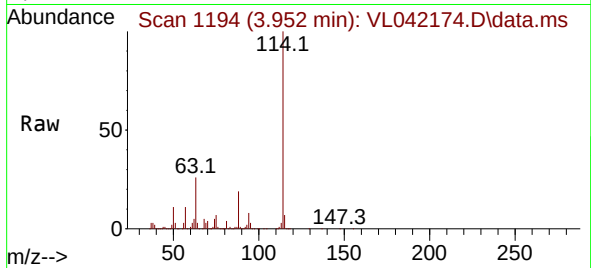




#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.952 min Scan# 1194
Delta R.T. 0.000 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

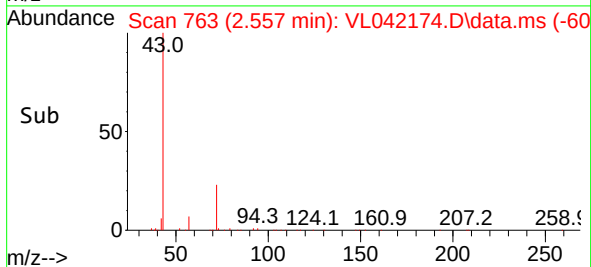
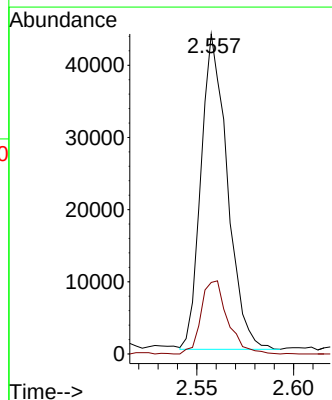
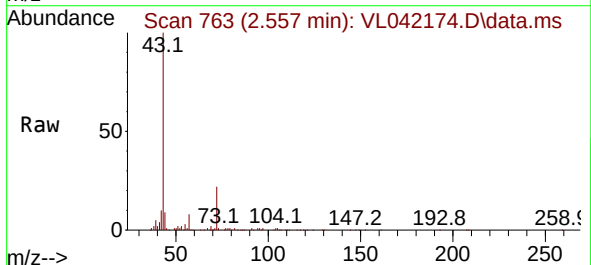
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

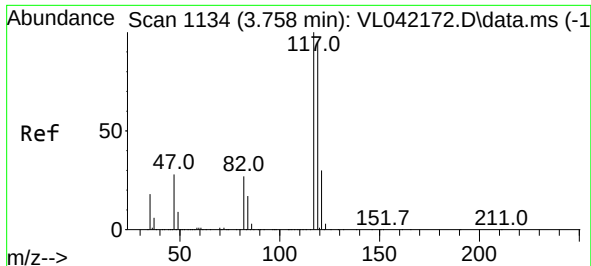
Tgt Ion:114 Resp: 537244
Ion Ratio Lower Upper
114 100
63 25.8 20.7 31.1
88 18.8 15.0 22.4



#34
2-Butanone
Concen: 1.063 ppbv
RT: 2.557 min Scan# 763
Delta R.T. 0.003 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

Tgt Ion: 43 Resp: 41423
Ion Ratio Lower Upper
43 100
72 23.5 18.2 27.2

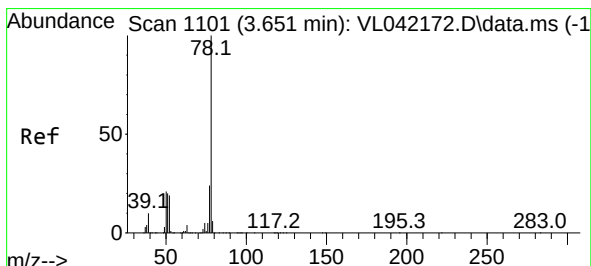
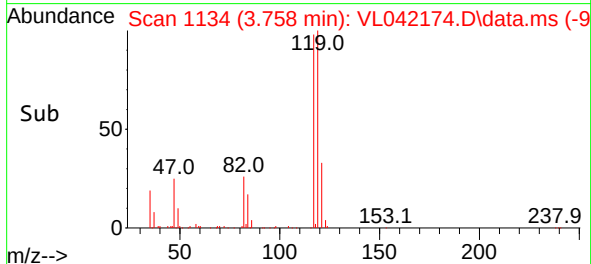
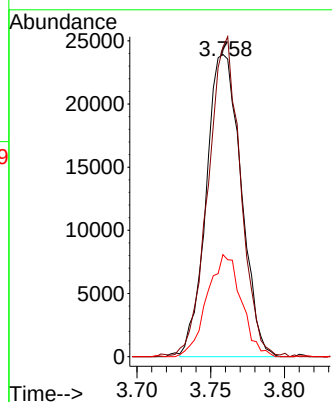
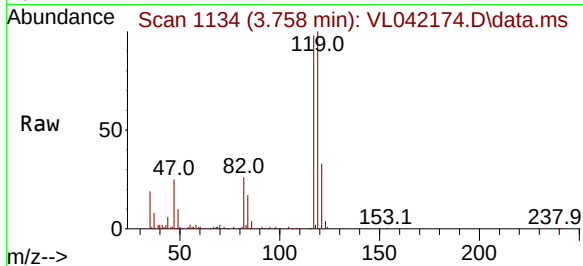




#35
Carbon Tetrachloride
Concen: 0.952 ppbv
RT: 3.758 min Scan# 1134
Delta R.T. 0.000 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

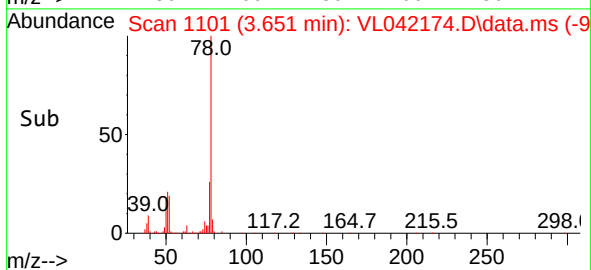
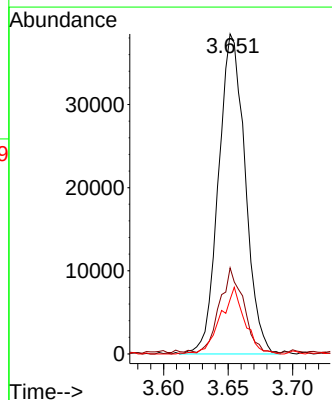
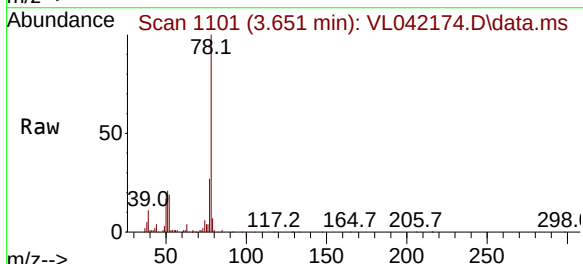
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

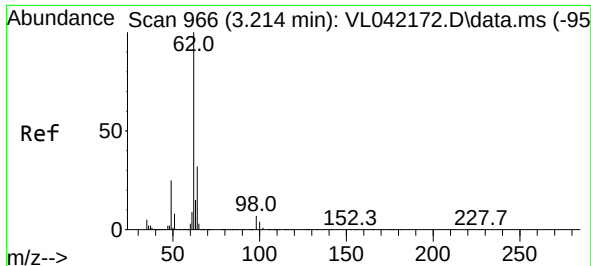
Tgt Ion:117 Resp: 39345
Ion Ratio Lower Upper
117 100
119 101.8 76.2 114.2
121 33.7 24.2 36.4



#36
Benzene
Concen: 1.036 ppbv
RT: 3.651 min Scan# 1101
Delta R.T. 0.000 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

Tgt Ion: 78 Resp: 55156
Ion Ratio Lower Upper
78 100
77 26.5 19.1 28.7
50 17.1 16.6 24.8





#37

1,2-Dichloroethane

Concen: 1.002 ppbv

RT: 3.218 min Scan# 966

Delta R.T. 0.003 min

Lab File: VL042174.D

Acq: 27 Mar 2025 09:30

Instrument :

MSVOA_L

ClientSampleId :

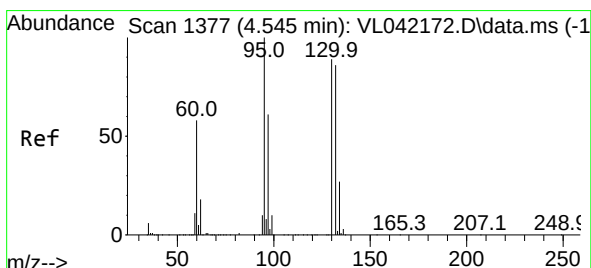
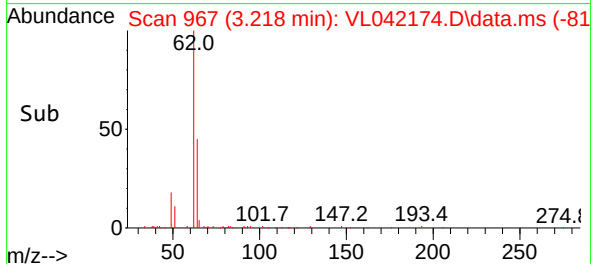
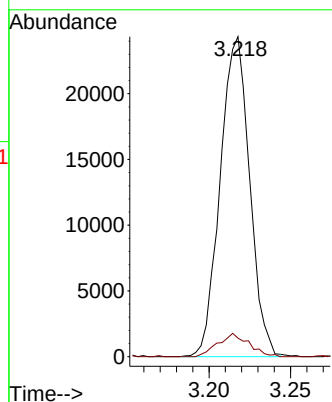
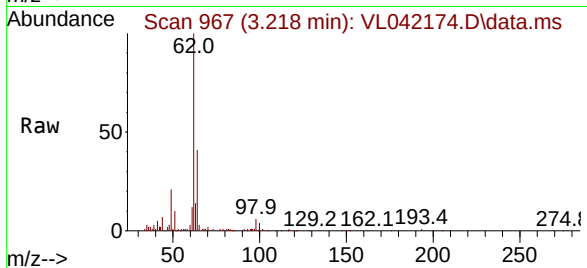
VSTDIC001

Tgt Ion: 62 Resp: 30543

Ion Ratio Lower Upper

62 100

98 7.6 5.4 8.2



#38

Trichloroethene

Concen: 0.985 ppbv

RT: 4.545 min Scan# 1377

Delta R.T. 0.000 min

Lab File: VL042174.D

Acq: 27 Mar 2025 09:30

Tgt Ion:130 Resp: 21906

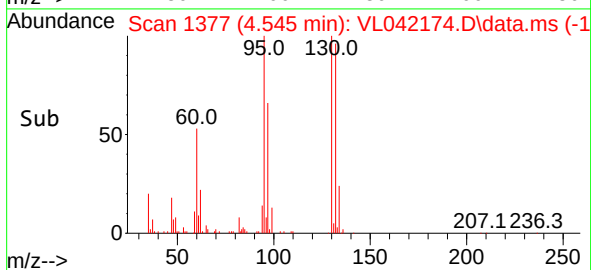
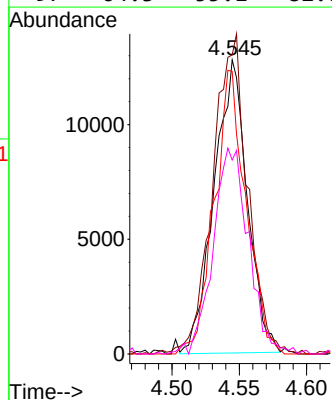
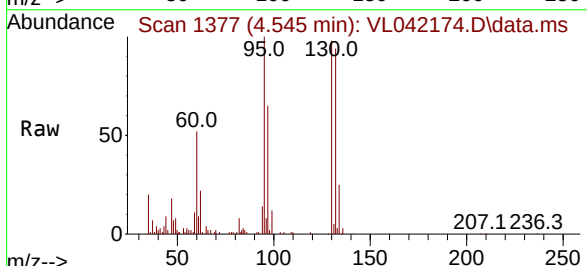
Ion Ratio Lower Upper

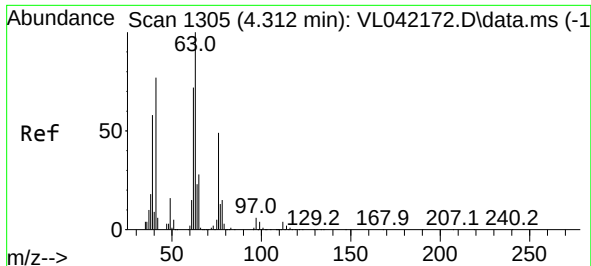
130 100

95 100.2 89.8 134.8

132 95.3 77.4 116.2

97 64.3 55.1 82.7





#39

1,2-Dichloropropane

Concen: 1.032 ppbv

RT: 4.312 min Scan# 11

Delta R.T. 0.000 min

Lab File: VL042174.D

Acq: 27 Mar 2025 09:30

Instrument :

MSVOA_1

ClientSampleId :

VSTDIC001

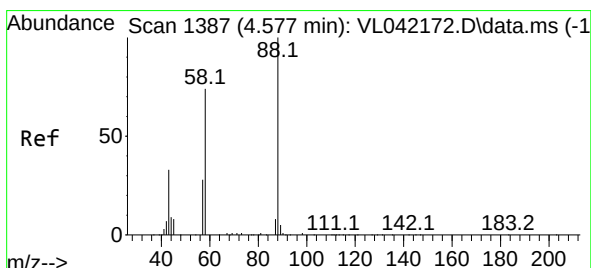
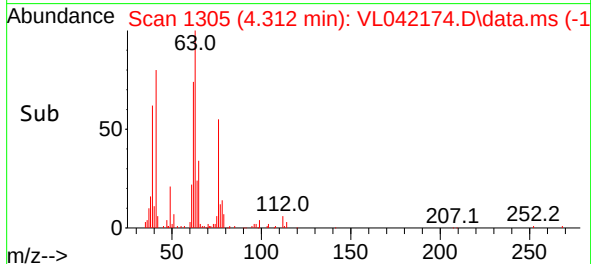
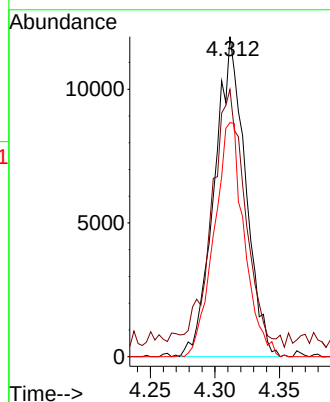
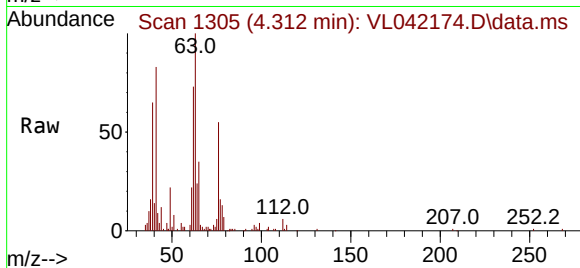
Tgt Ion: 63 Resp: 20020

Ion Ratio Lower Upper

63 100

41 76.8 61.7 92.5

62 73.1 57.6 86.4



#40

1,4-Dioxane

Concen: 0.997 ppbv

RT: 4.593 min Scan# 1392

Delta R.T. 0.016 min

Lab File: VL042174.D

Acq: 27 Mar 2025 09:30

Tgt Ion: 88 Resp: 10031

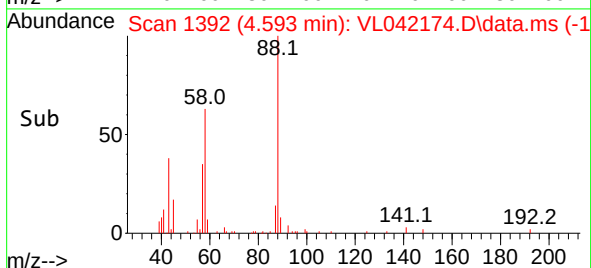
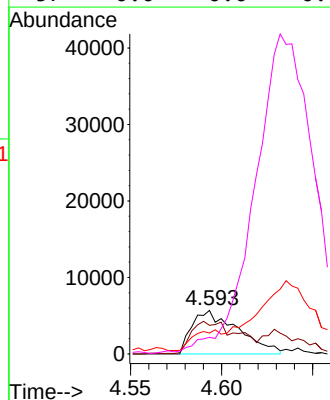
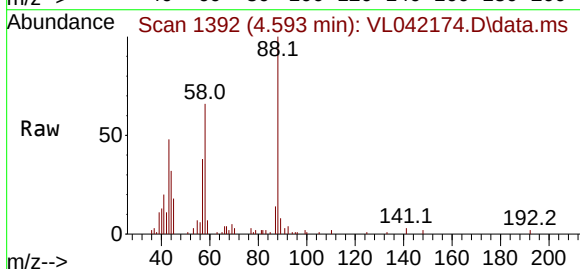
Ion Ratio Lower Upper

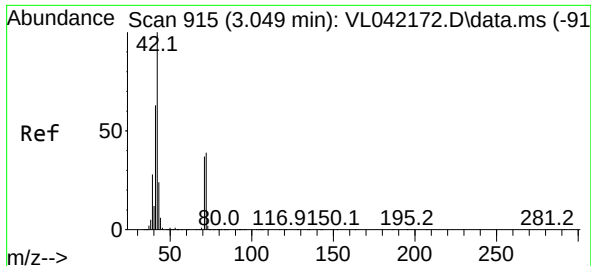
88 100

58 121.8 62.7 94.1#

43 0.0 23.0 34.4#

57 0.0 0.0 0.0

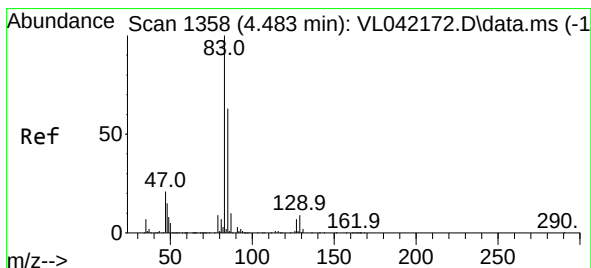
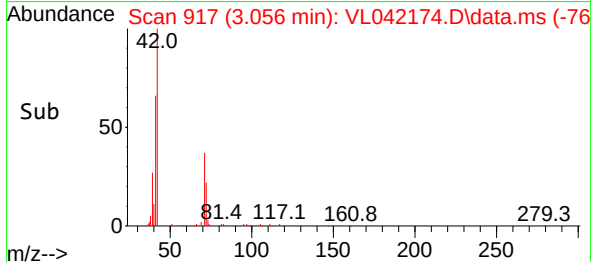
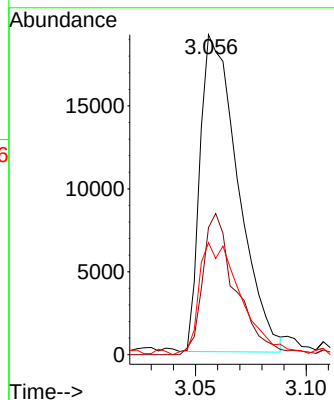
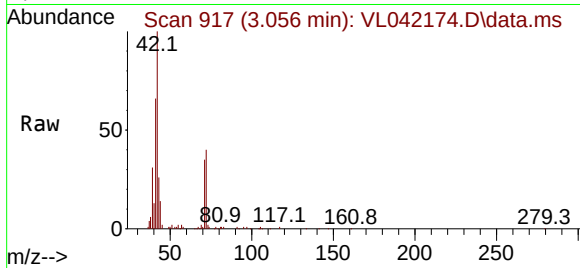




#41
Tetrahydrofuran
Concen: 1.029 ppbv
RT: 3.056 min Scan# 915
Delta R.T. 0.007 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

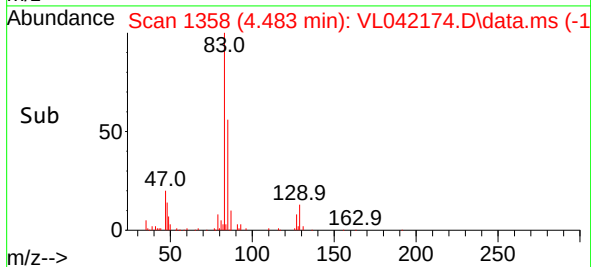
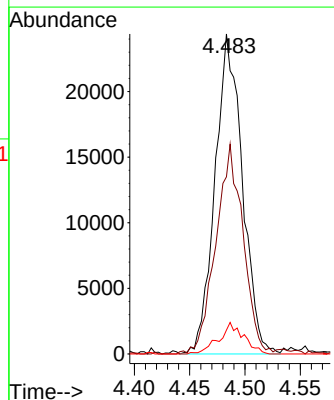
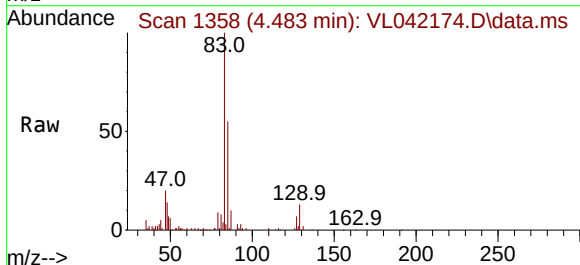
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

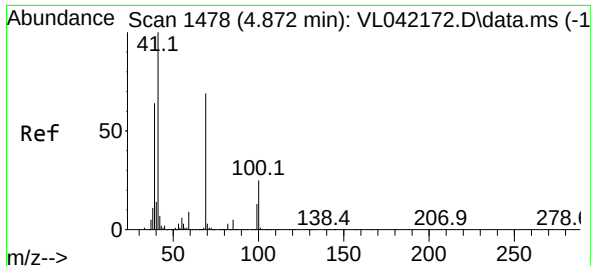
Tgt Ion: 42 Resp: 22818
Ion Ratio Lower Upper
42 100
72 39.4 31.4 47.0
71 40.8 30.2 45.4



#42
Bromodichloromethane
Concen: 0.996 ppbv
RT: 4.483 min Scan# 1358
Delta R.T. 0.000 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

Tgt Ion: 83 Resp: 41864
Ion Ratio Lower Upper
83 100
85 54.7 50.5 75.7
127 7.5 5.9 8.9

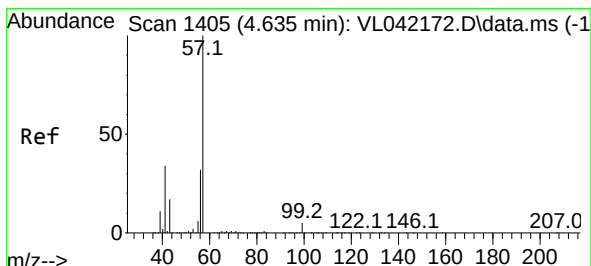
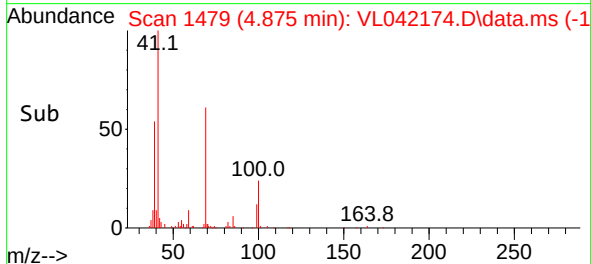
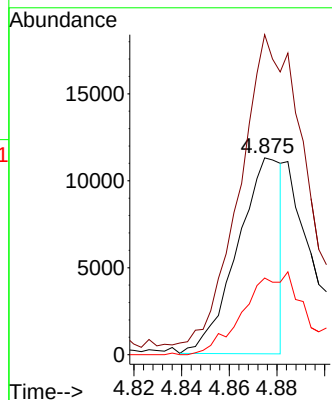
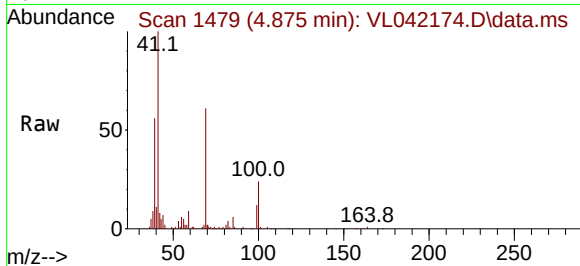




#43
Methyl Methacrylate
Concen: 0.640 ppbv
RT: 4.875 min Scan# 1478
Delta R.T. 0.003 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

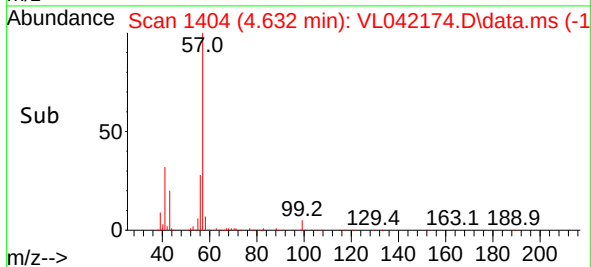
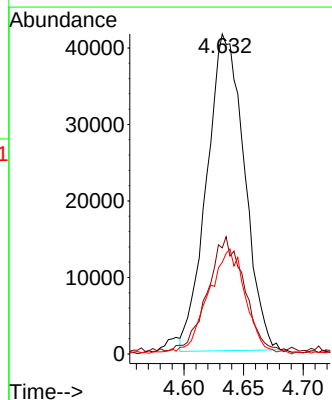
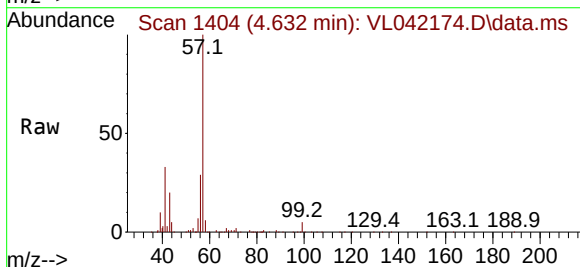
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC001

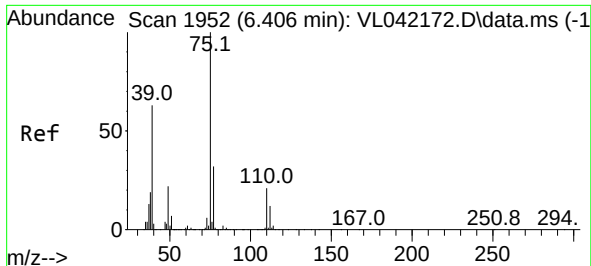
Tgt Ion: 69 Resp: 14387
Ion Ratio Lower Upper
69 100
41 246.1 123.8 185.6#
100 0.0 28.4 42.6#



#44
2,2,4-Trimethylpentane
Concen: 1.008 ppbv
RT: 4.632 min Scan# 1404
Delta R.T. -0.003 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

Tgt Ion: 57 Resp: 90727
Ion Ratio Lower Upper
57 100
41 35.9 26.8 40.2
56 33.7 25.6 38.4





#45

t-1,3-Dichloropropene

Concen: 0.555 ppbv

RT: 6.412 min Scan# 1952

Delta R.T. 0.007 min

Lab File: VL042174.D

Acq: 27 Mar 2025 09:30

Instrument :

MSVOA_L

ClientSampleId :

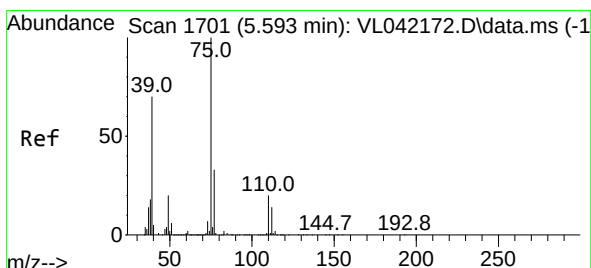
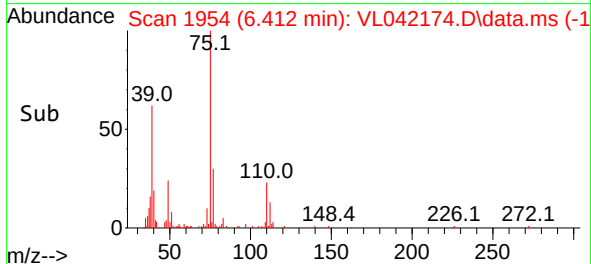
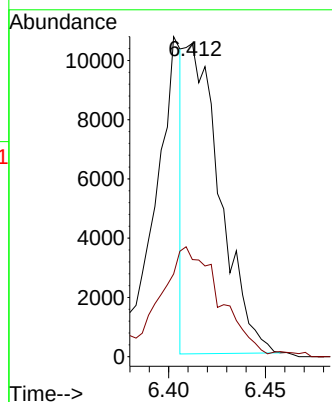
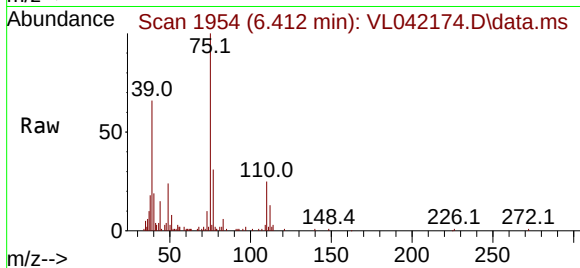
VSTDIC001

Tgt Ion: 75 Resp: 13431

Ion Ratio Lower Upper

75 100

77 31.0 26.0 39.0



#46

cis-1,3-Dichloropropene

Concen: 1.014 ppbv

RT: 5.593 min Scan# 1701

Delta R.T. 0.000 min

Lab File: VL042174.D

Acq: 27 Mar 2025 09:30

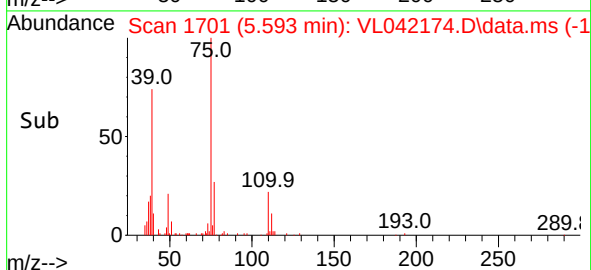
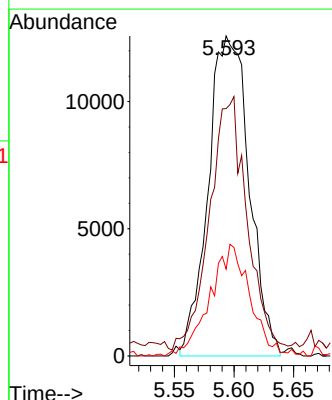
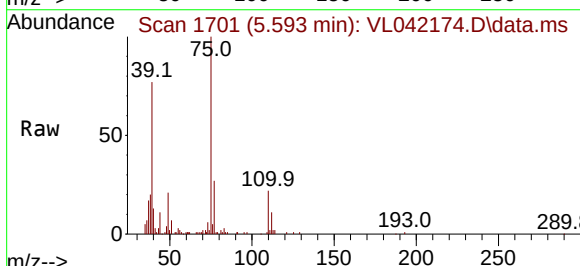
Tgt Ion: 75 Resp: 30063

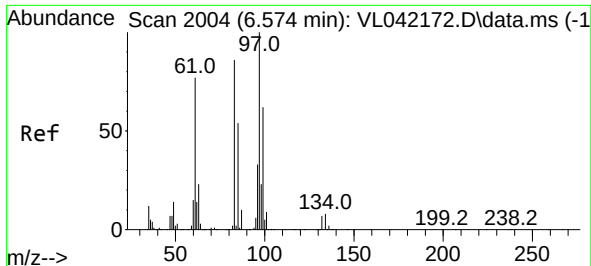
Ion Ratio Lower Upper

75 100

39 74.2 55.8 83.6

77 26.4 26.0 39.0

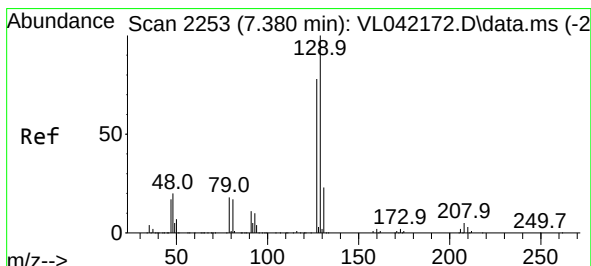
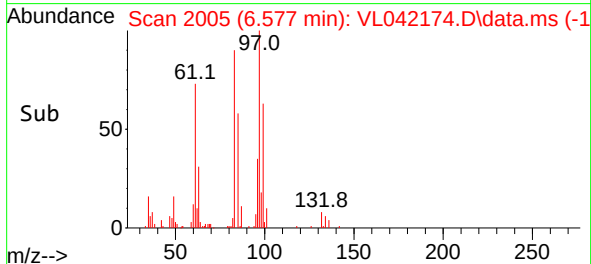
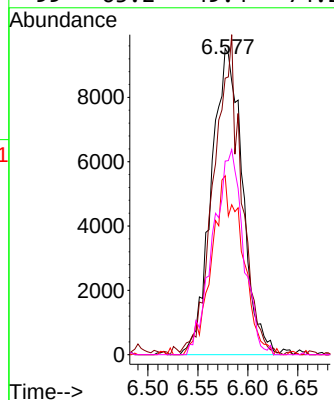
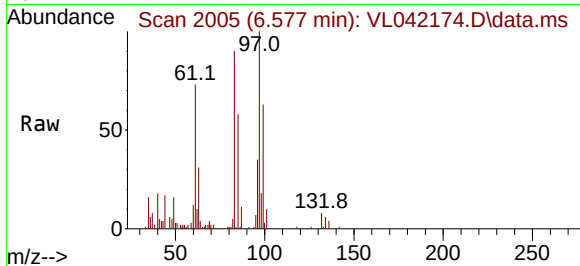




#47
 1,1,2-Trichloroethane
 Concen: 1.002 ppbv
 RT: 6.577 min Scan# 2005
 Delta R.T. 0.003 min
 Lab File: VL042174.D
 Acq: 27 Mar 2025 09:30

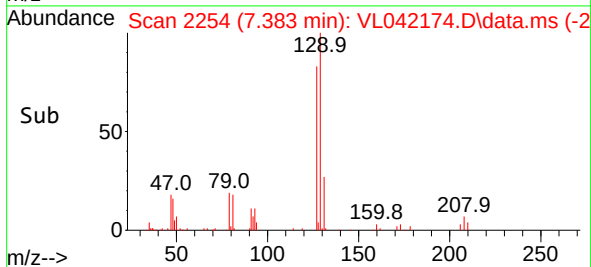
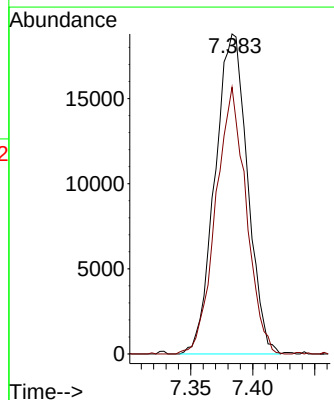
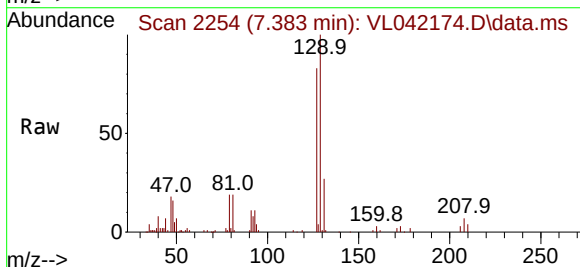
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

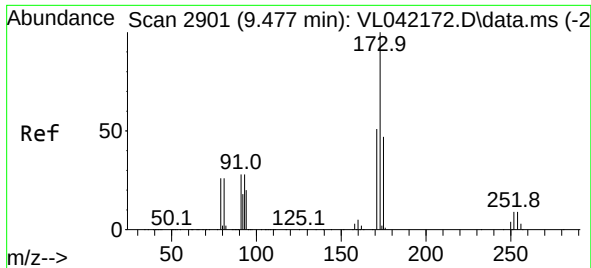
Tgt Ion: 97	Resp: 20546
Ion Ratio	Lower Upper
97 100	
83 89.7	69.2 103.8
85 58.4	43.1 64.7
99 63.2	49.4 74.2



#48
 Dibromochloromethane
 Concen: 0.991 ppbv
 RT: 7.383 min Scan# 2254
 Delta R.T. 0.003 min
 Lab File: VL042174.D
 Acq: 27 Mar 2025 09:30

Tgt Ion:129	Resp: 34425		
Ion Ratio	Lower	Upper	
129 100			
127 78.1	39.1	117.2	





#49

Bromoform

Concen: 1.013 ppbv

RT: 9.481 min Scan# 2901

Delta R.T. 0.003 min

Lab File: VL042174.D

Acq: 27 Mar 2025 09:30

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

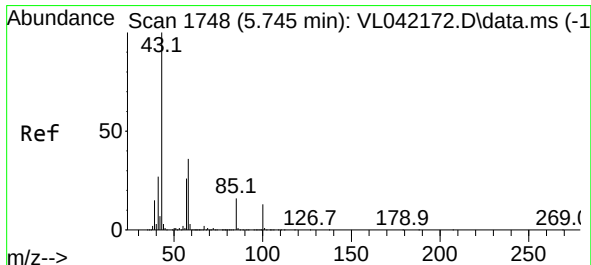
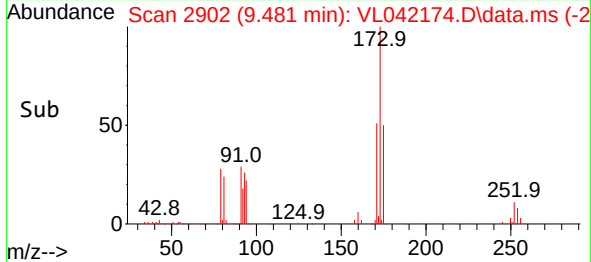
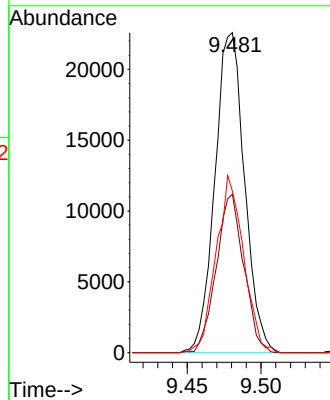
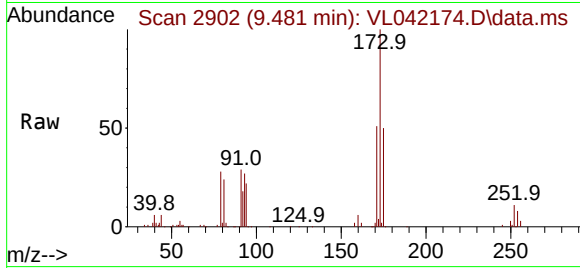
Tgt Ion:173 Resp: 31610

Ion Ratio Lower Upper

173 100

175 46.1 38.6 57.8

171 51.3 41.8 62.6



#50

4-Methyl-2-Pentanone

Concen: 0.556 ppbv

RT: 5.752 min Scan# 1750

Delta R.T. 0.007 min

Lab File: VL042174.D

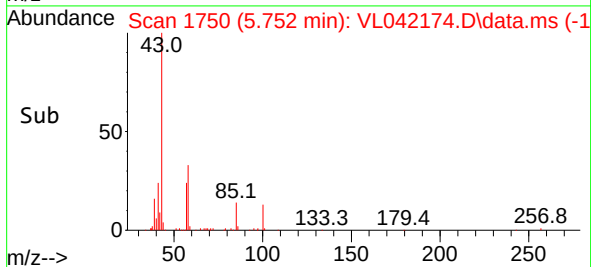
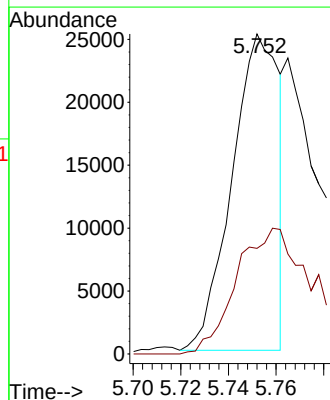
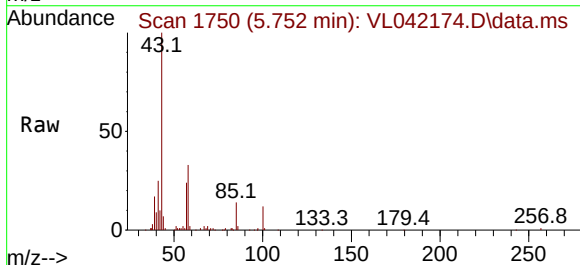
Acq: 27 Mar 2025 09:30

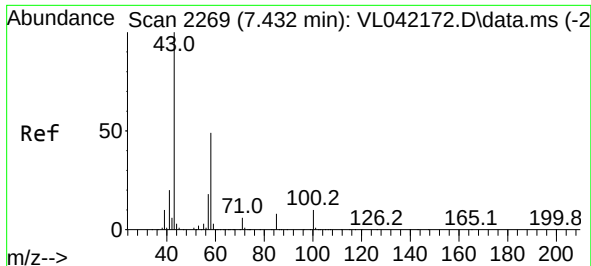
Tgt Ion: 43 Resp: 34358

Ion Ratio Lower Upper

43 100

58 0.0 29.0 43.6#

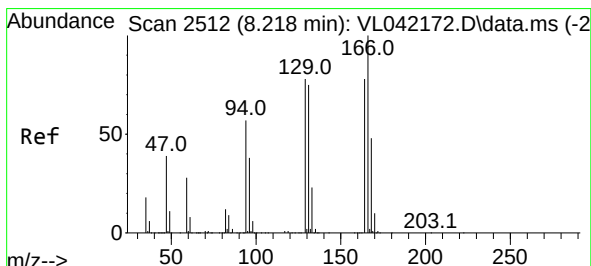
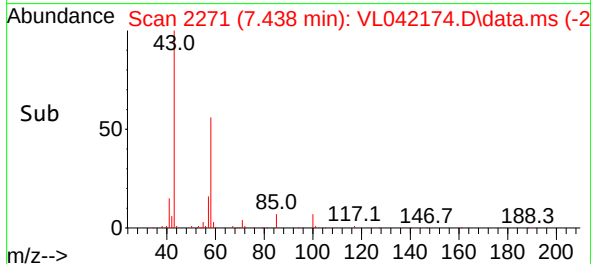
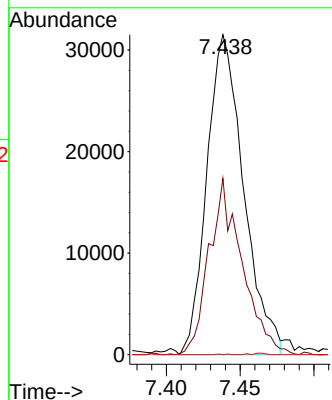
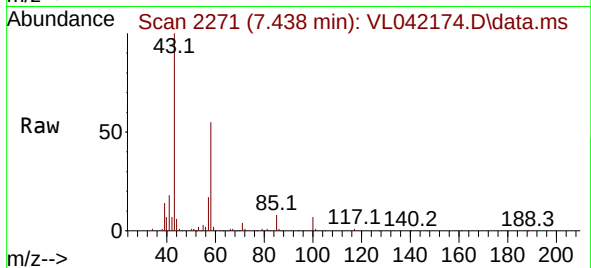




#51
2-Hexanone
Concen: 1.067 ppbv
RT: 7.438 min Scan# 21
Delta R.T. 0.007 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

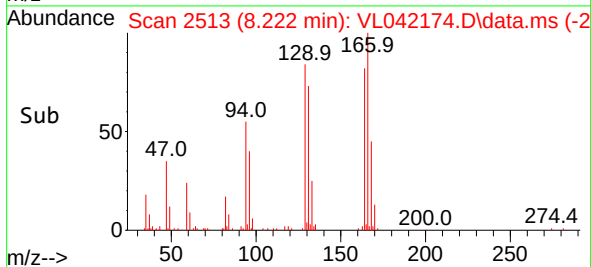
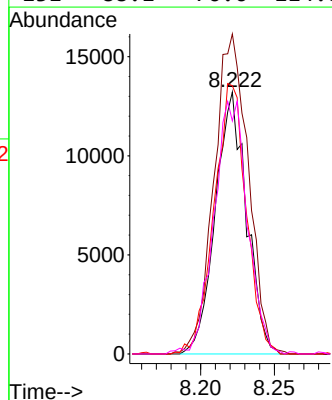
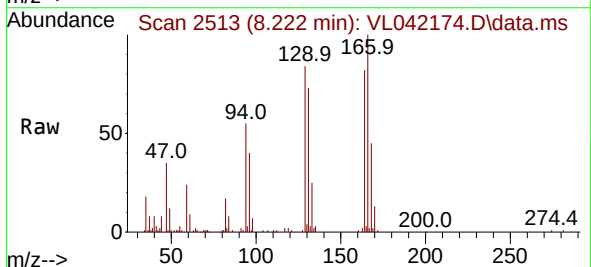
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

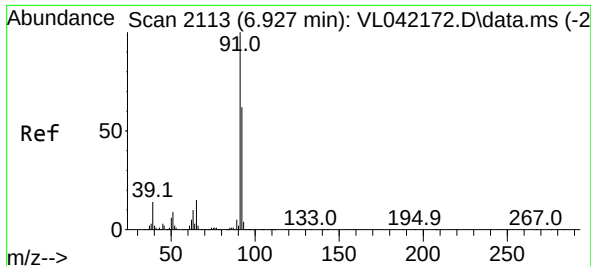
Tgt Ion: 43 Resp: 54680
Ion Ratio Lower Upper
43 100
58 49.8 39.7 59.5
98 0.2 0.1 0.1#



#52
Tetrachloroethene
Concen: 0.919 ppbv
RT: 8.222 min Scan# 2513
Delta R.T. 0.003 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

Tgt Ion: 164 Resp: 19415
Ion Ratio Lower Upper
164 100
166 121.4 102.5 153.7
129 102.4 79.8 119.8
131 88.1 76.6 114.8

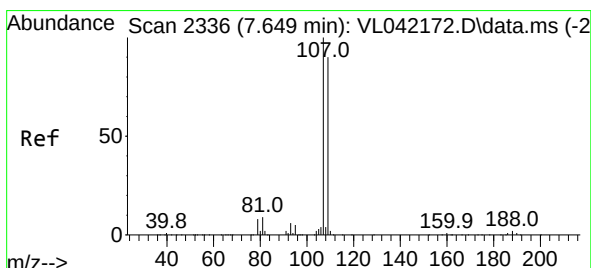
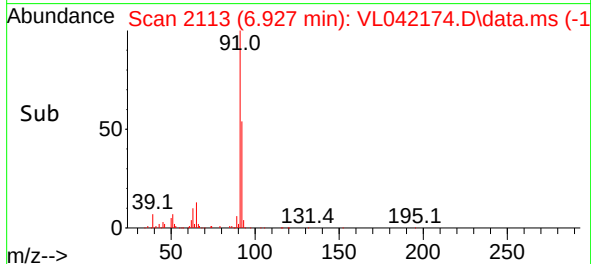
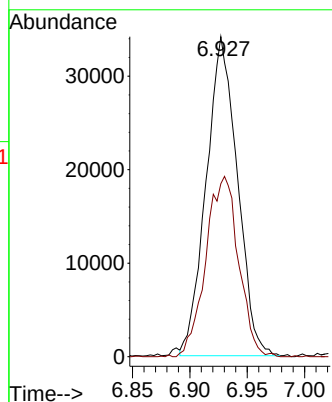
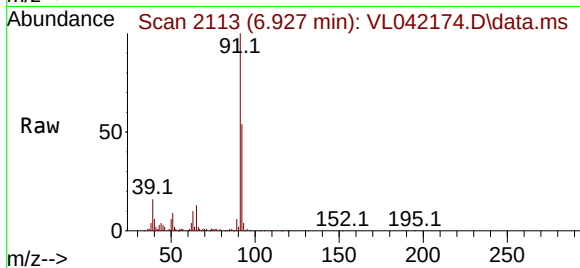




#53
Toluene
Concen: 1.023 ppbv
RT: 6.927 min Scan# 2113
Delta R.T. 0.000 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

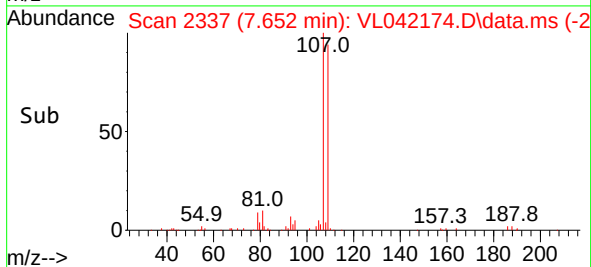
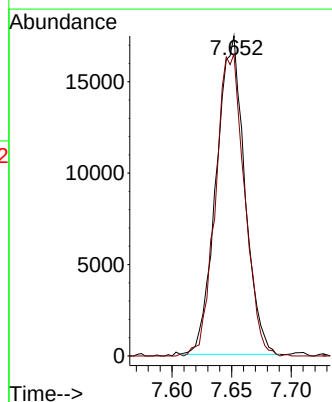
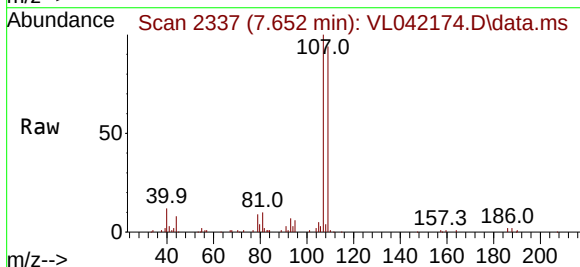
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

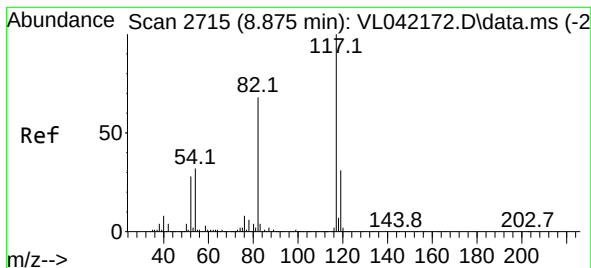
Tgt Ion: 91 Resp: 64612
Ion Ratio Lower Upper
91 100
92 59.4 48.4 72.6



#54
1,2-Dibromoethane
Concen: 1.009 ppbv
RT: 7.652 min Scan# 2337
Delta R.T. 0.003 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

Tgt Ion: 107 Resp: 28879
Ion Ratio Lower Upper
107 100
109 94.8 72.2 108.4





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.879 min Scan# 21

Delta R.T. 0.003 min

Lab File: VL042174.D

Acq: 27 Mar 2025 09:30

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

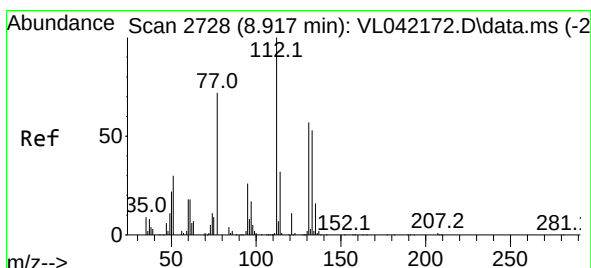
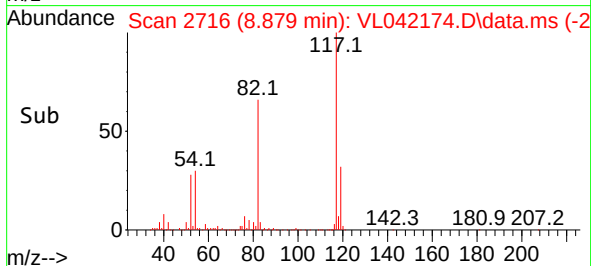
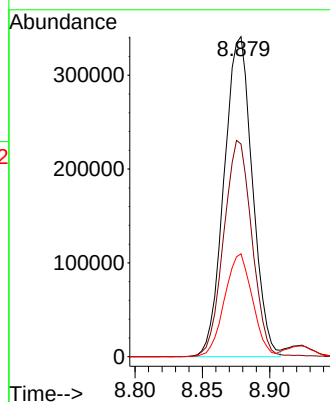
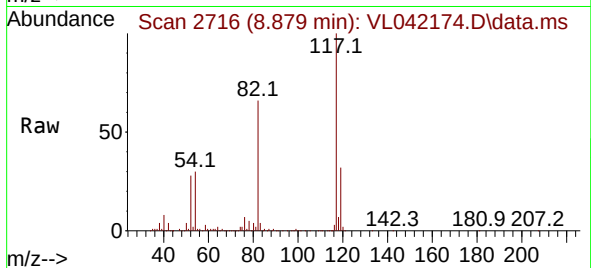
Tgt Ion:117 Resp: 499830

Ion Ratio Lower Upper

117 100

82 67.6 55.8 83.6

119 32.2 25.5 38.3



#56

1,1,1,2-Tetrachloroethane

Concen: 1.045 ppbv

RT: 8.924 min Scan# 2730

Delta R.T. 0.007 min

Lab File: VL042174.D

Acq: 27 Mar 2025 09:30

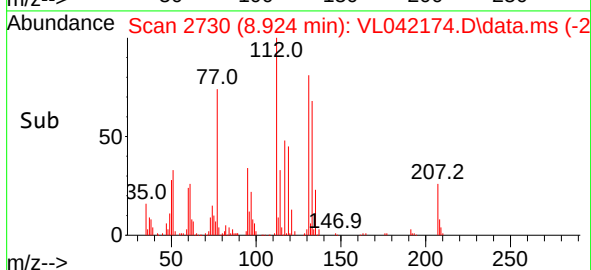
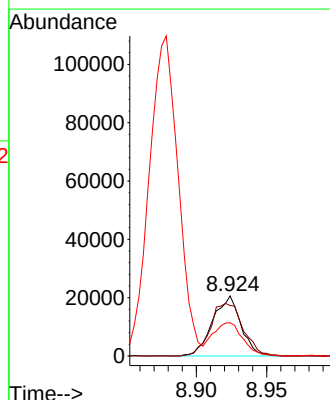
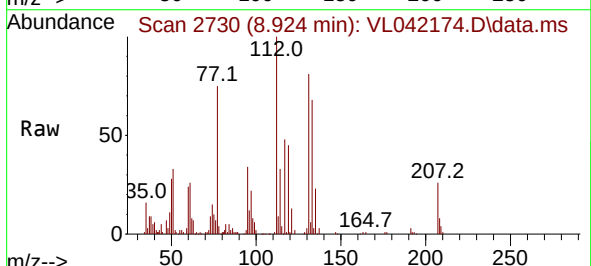
Tgt Ion:131 Resp: 28764

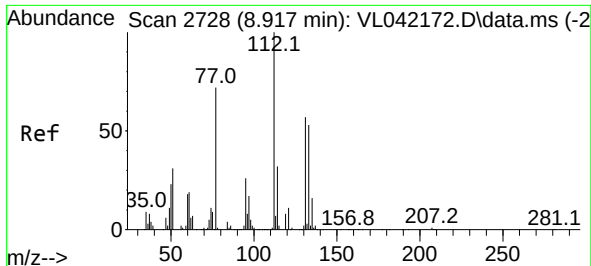
Ion Ratio Lower Upper

131 100

133 101.7 76.6 114.8

119 44.1 49.8 74.6#

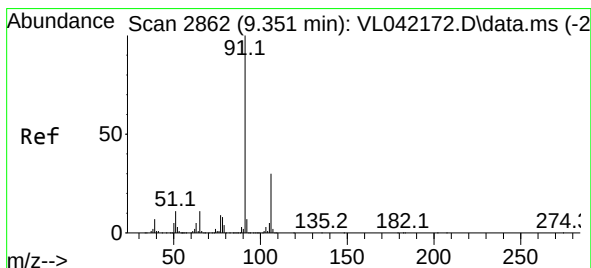
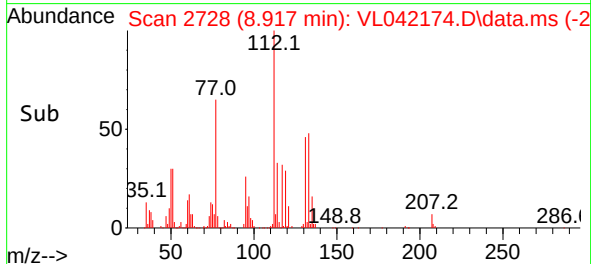
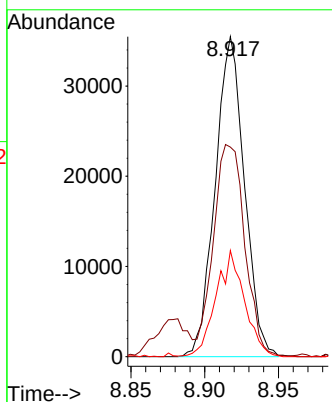
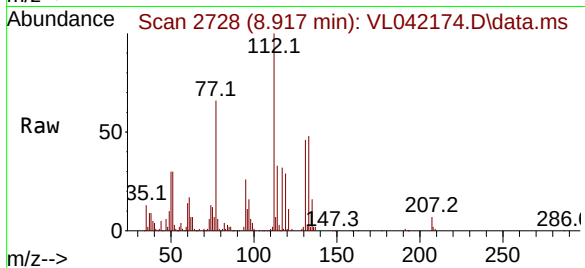




#57
Chlorobenzene
Concen: 1.032 ppbv
RT: 8.917 min Scan# 21
Delta R.T. 0.000 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

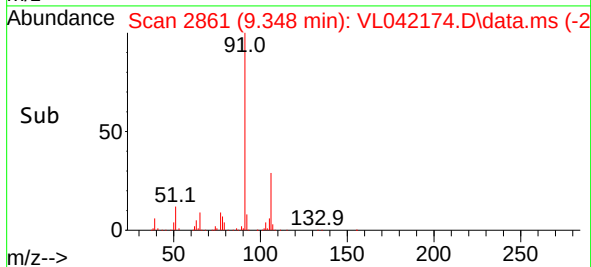
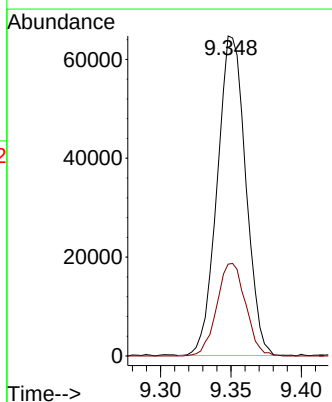
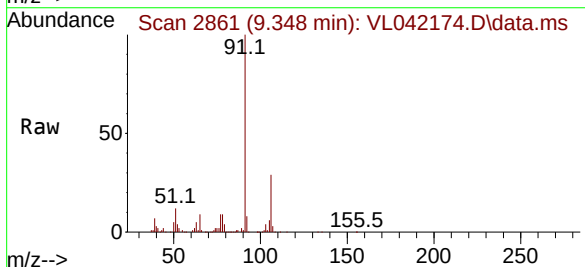
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

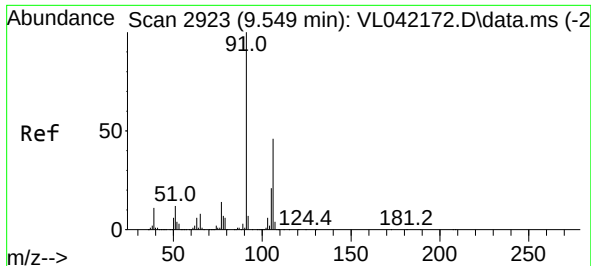
Tgt Ion:112 Resp: 48930
Ion Ratio Lower Upper
112 100
77 65.0 58.2 87.2
114 32.9 29.1 35.5



#58
Ethyl Benzene
Concen: 1.026 ppbv
RT: 9.348 min Scan# 2861
Delta R.T. -0.003 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

Tgt Ion: 91 Resp: 91086
Ion Ratio Lower Upper
91 100
106 28.7 24.2 36.2





#59

m/p-Xylene

Concen: 1.033 ppbv

RT: 9.545 min Scan# 2923

Delta R.T. -0.003 min

Lab File: VL042174.D

Acq: 27 Mar 2025 09:30

Instrument :

MSVOA_1

ClientSampleId :

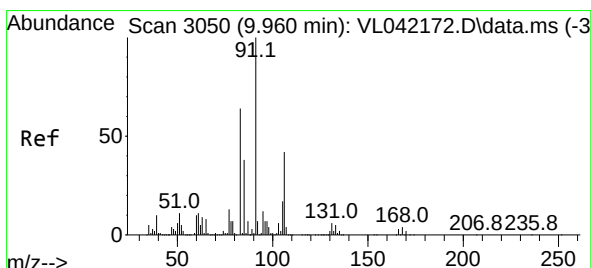
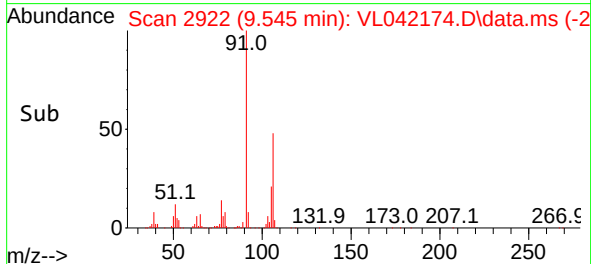
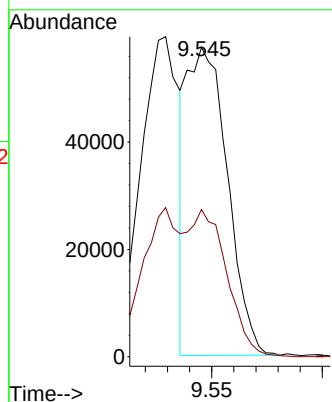
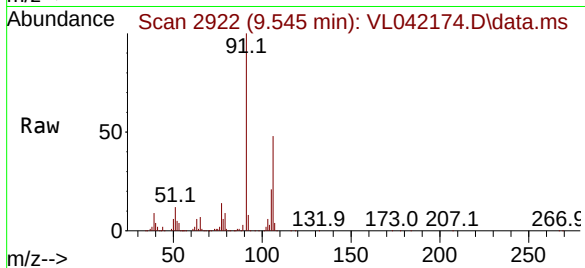
VSTDIC001

Tgt Ion: 91 Resp: 73295

Ion Ratio Lower Upper

91 100

106 0.0 36.4 54.6#



#60

o-Xylene

Concen: 1.037 ppbv

RT: 9.960 min Scan# 3050

Delta R.T. 0.000 min

Lab File: VL042174.D

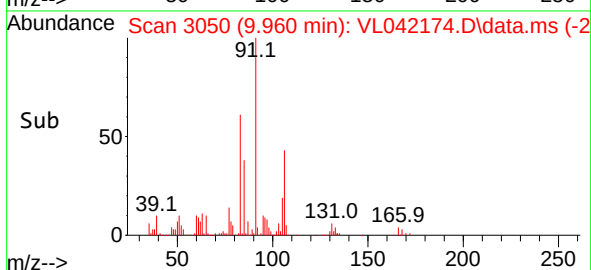
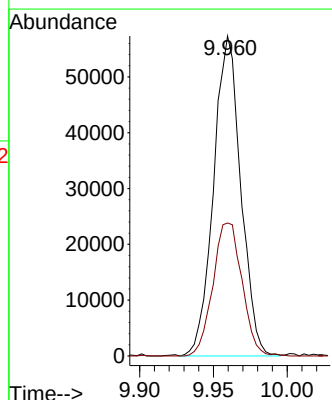
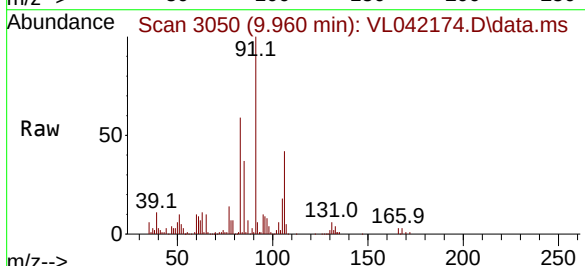
Acq: 27 Mar 2025 09:30

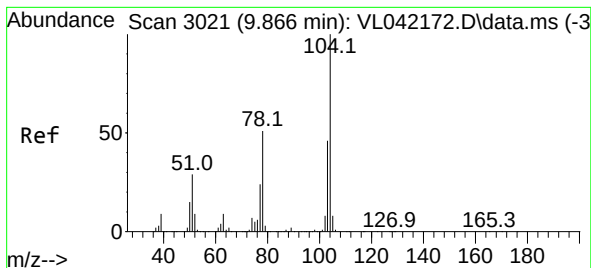
Tgt Ion: 91 Resp: 73702

Ion Ratio Lower Upper

91 100

106 44.3 20.8 62.5





#61

Styrene

Concen: 1.027 ppbv

RT: 9.866 min Scan# 3021

Delta R.T. 0.000 min

Lab File: VL042174.D

Acq: 27 Mar 2025 09:30

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

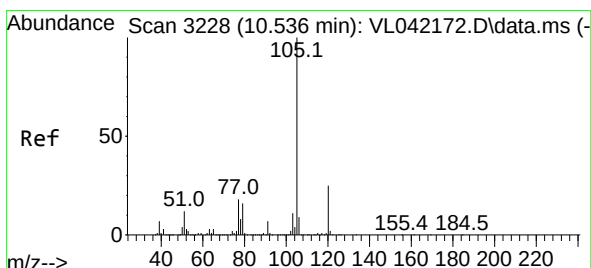
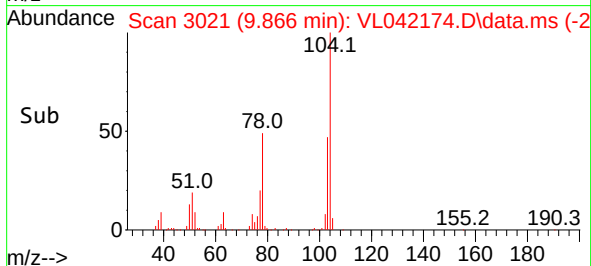
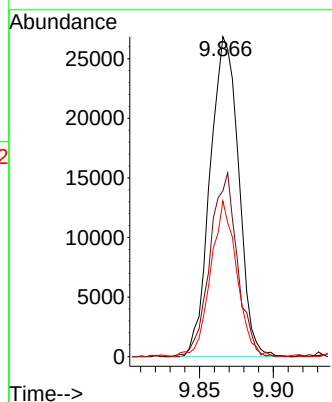
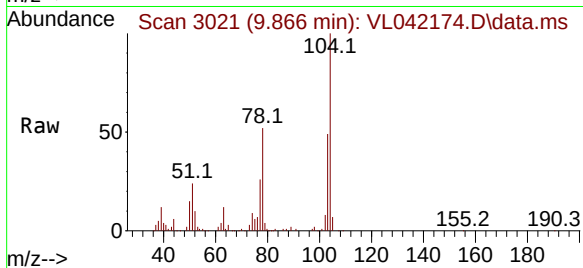
Tgt Ion:104 Resp: 36110

Ion Ratio Lower Upper

104 100

78 54.9 41.8 62.6

103 45.1 37.0 55.4



#62

Isopropylbenzene

Concen: 1.034 ppbv

RT: 10.536 min Scan# 3228

Delta R.T. 0.000 min

Lab File: VL042174.D

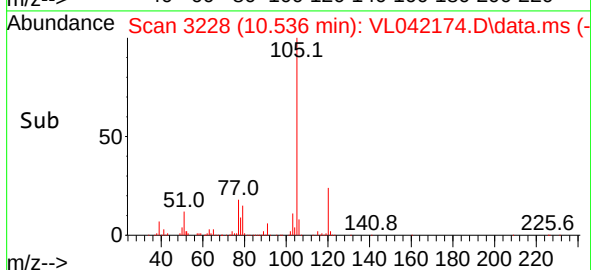
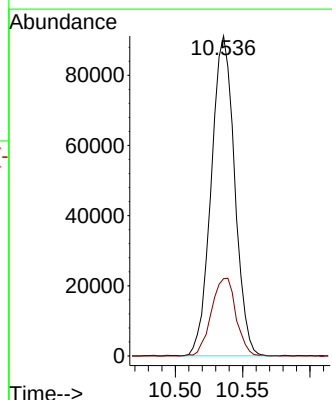
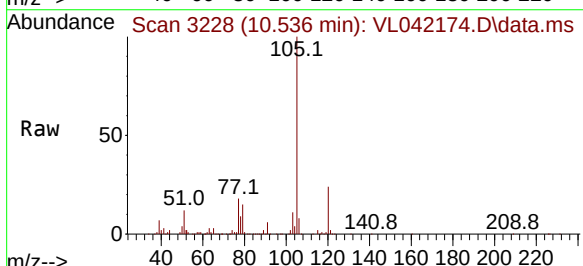
Acq: 27 Mar 2025 09:30

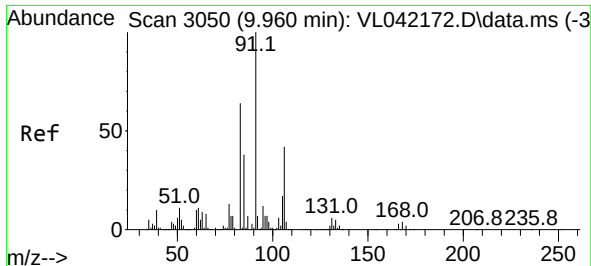
Tgt Ion:105 Resp: 109897

Ion Ratio Lower Upper

105 100

120 25.7 19.9 29.9

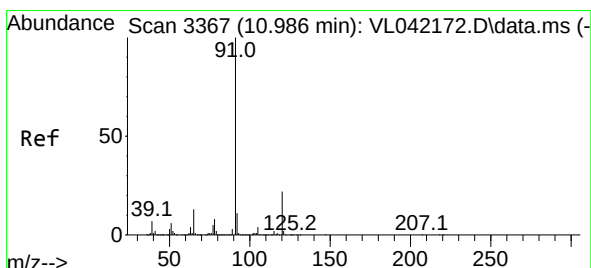
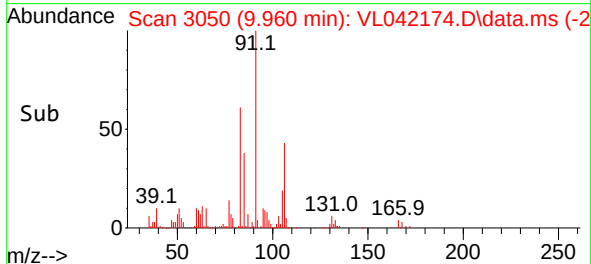
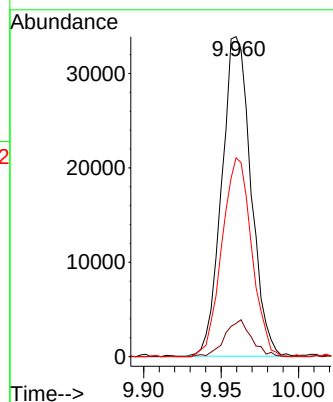
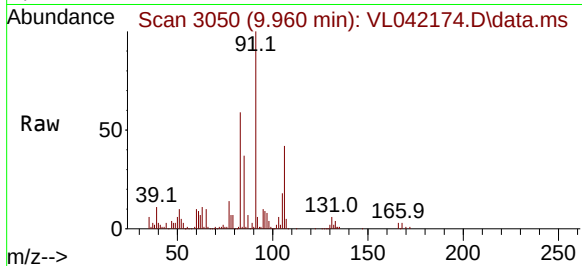




#63
 1,1,2,2-Tetrachloroethane
 Concen: 1.029 ppbv
 RT: 9.960 min Scan# 3050
 Delta R.T. 0.000 min
 Lab File: VL042174.D
 Acq: 27 Mar 2025 09:30

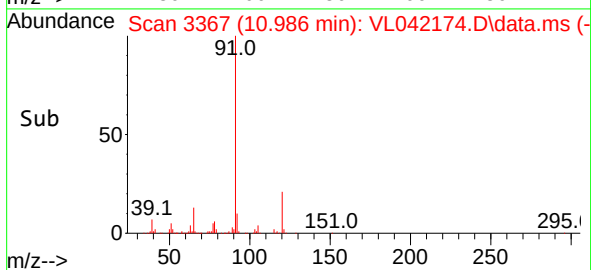
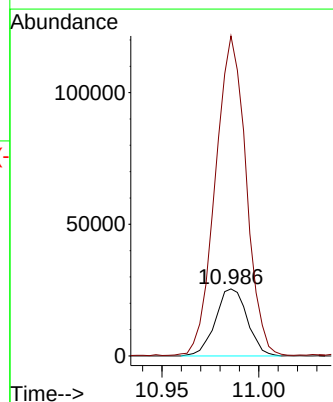
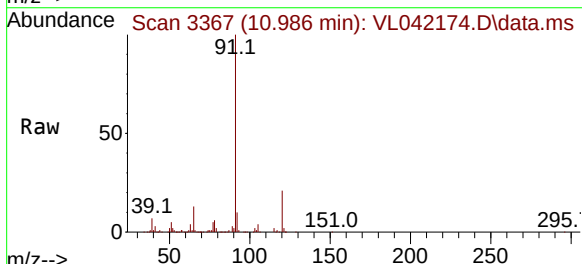
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

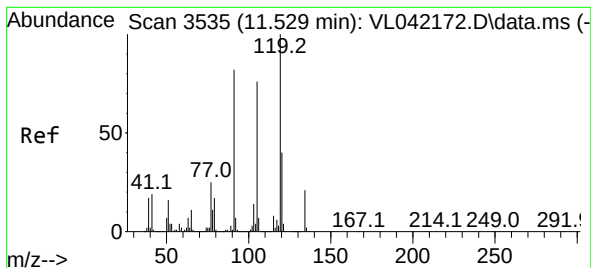
Tgt Ion: 83 Resp: 44431
 Ion Ratio Lower Upper
 83 100
 131 10.6 4.8 14.4
 85 64.0 32.5 97.5



#64
 n-propylbenzene
 Concen: 1.062 ppbv
 RT: 10.986 min Scan# 3367
 Delta R.T. 0.000 min
 Lab File: VL042174.D
 Acq: 27 Mar 2025 09:30

Tgt Ion: 120 Resp: 29054
 Ion Ratio Lower Upper
 120 100
 91 466.9 376.9 565.3





#65

tert-Butylbenzene

Concen: 1.053 ppbv

RT: 11.526 min Scan# 3534

Delta R.T. -0.003 min

Lab File: VL042174.D

Acq: 27 Mar 2025 09:30

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

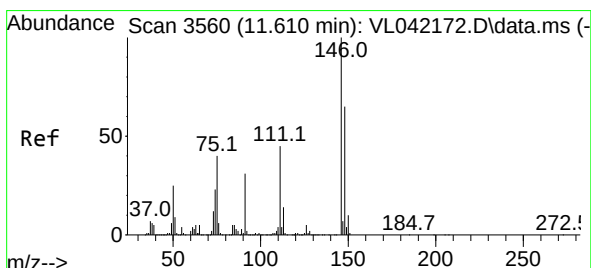
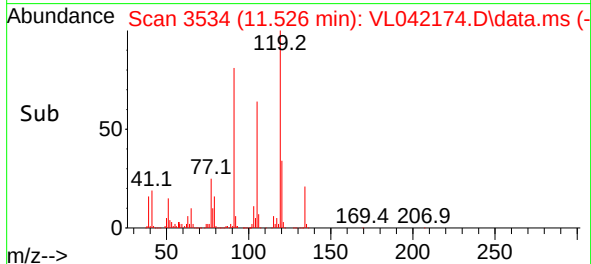
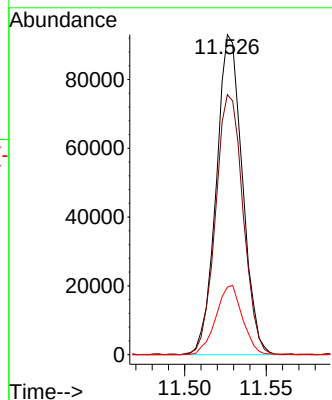
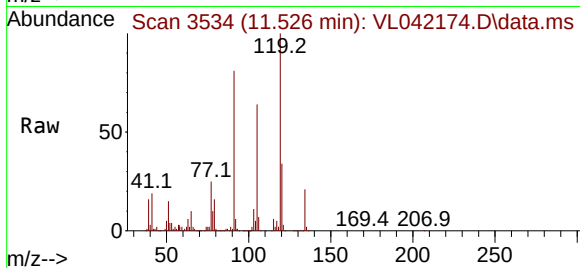
Tgt Ion:119 Resp: 103520

Ion Ratio Lower Upper

119 100

91 85.9 66.0 99.0

134 22.1 16.7 25.1



#66

Benzyl Chloride

Concen: 1.022 ppbv

RT: 11.614 min Scan# 3561

Delta R.T. 0.003 min

Lab File: VL042174.D

Acq: 27 Mar 2025 09:30

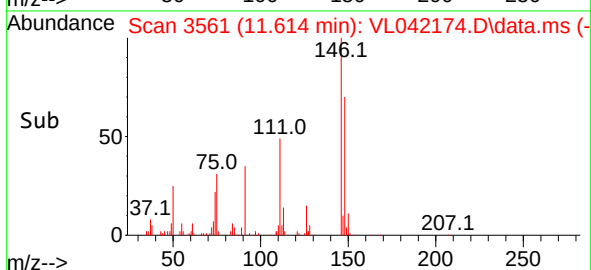
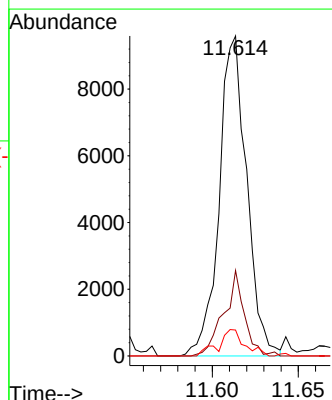
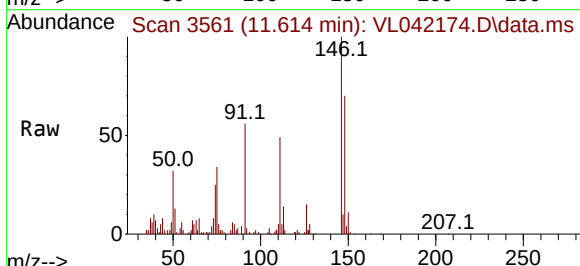
Tgt Ion: 91 Resp: 10660

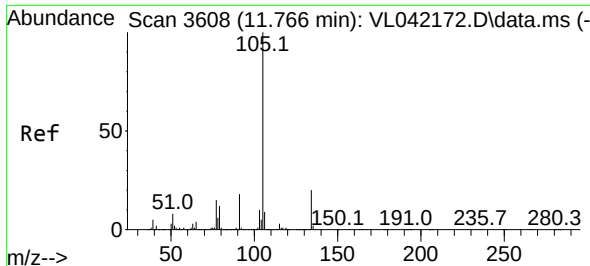
Ion Ratio Lower Upper

91 100

126 20.0 13.8 20.6

128 8.0 4.5 6.7#

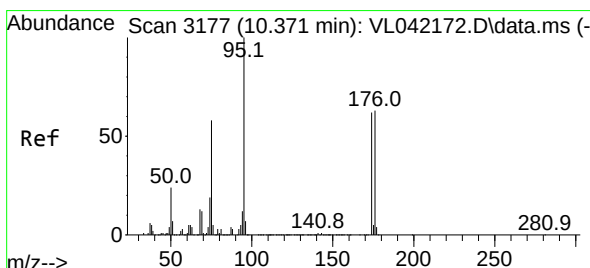
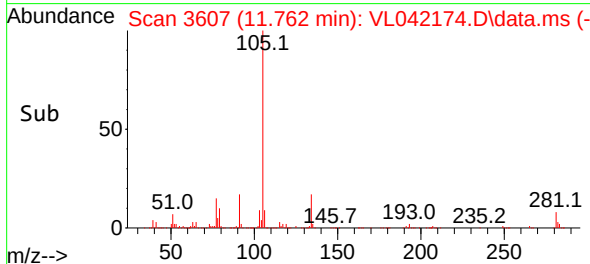
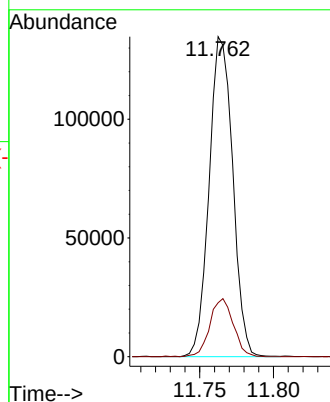
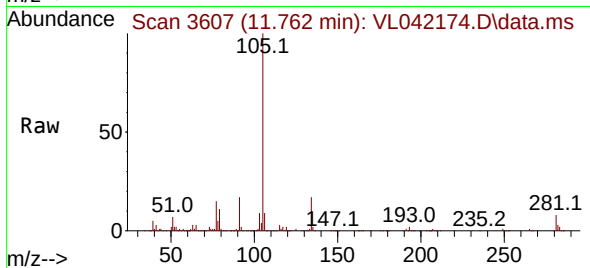




#67
 sec-Butylbenzene
 Concen: 1.095 ppbv
 RT: 11.762 min Scan# 3607
 Delta R.T. -0.003 min
 Lab File: VL042174.D
 Acq: 27 Mar 2025 09:30

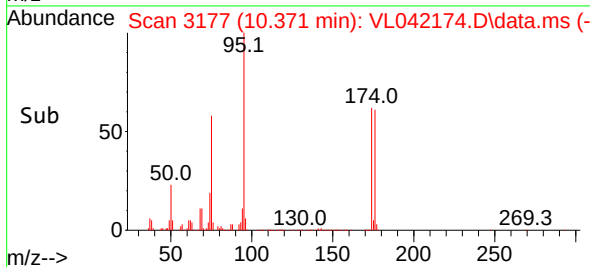
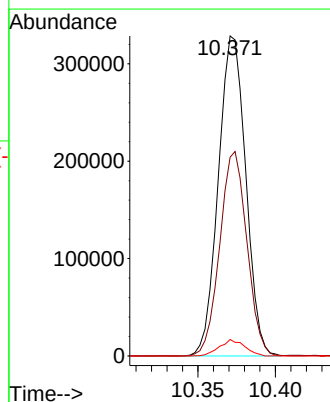
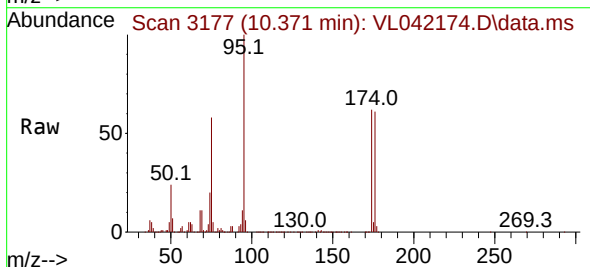
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

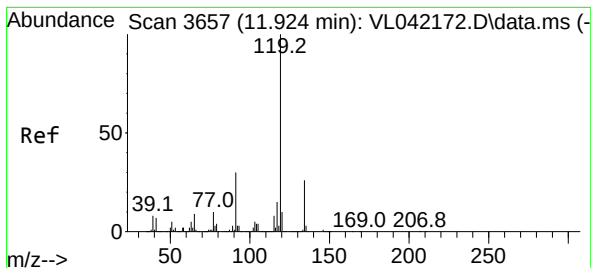
Tgt Ion:105 Resp: 149660
 Ion Ratio Lower Upper
 105 100
 134 18.1 15.5 23.3



#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.861 ppbv
 RT: 10.371 min Scan# 3177
 Delta R.T. 0.000 min
 Lab File: VL042174.D
 Acq: 27 Mar 2025 09:30

Tgt Ion: 95 Resp: 404753
 Ion Ratio Lower Upper
 95 100
 174 63.4 50.6 76.0
 175 4.7 3.8 5.6





#69

p-Isopropyltoluene

Concen: 1.084 ppbv

RT: 11.921 min Scan# 3656

Delta R.T. -0.003 min

Lab File: VL042174.D

Acq: 27 Mar 2025 09:30

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

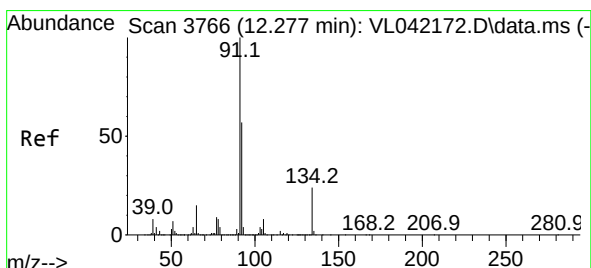
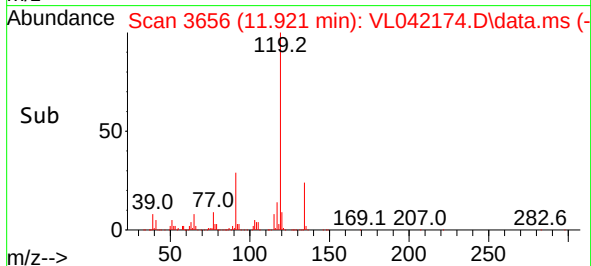
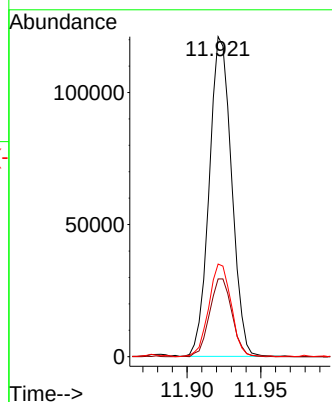
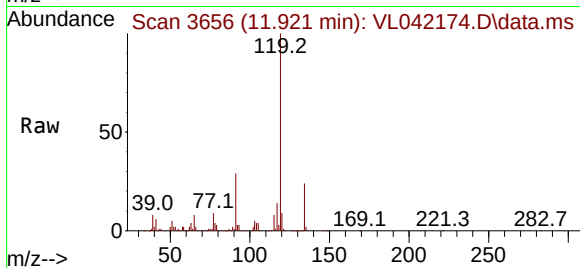
Tgt Ion:119 Resp: 127509

Ion Ratio Lower Upper

119 100

134 24.6 20.4 30.6

91 30.0 23.7 35.5



#70

n-Butylbenzene

Concen: 1.079 ppbv

RT: 12.280 min Scan# 3767

Delta R.T. 0.003 min

Lab File: VL042174.D

Acq: 27 Mar 2025 09:30

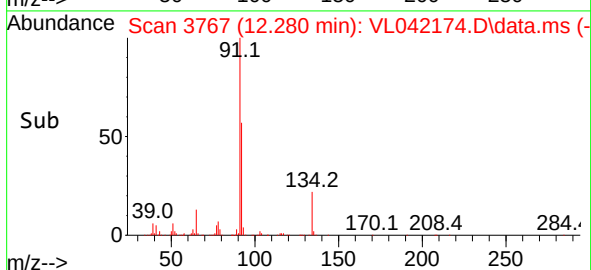
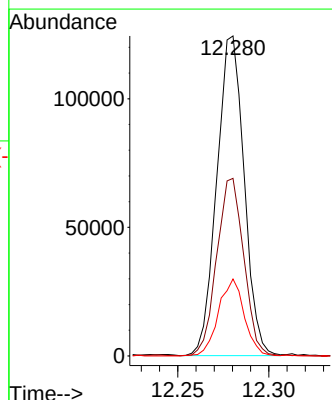
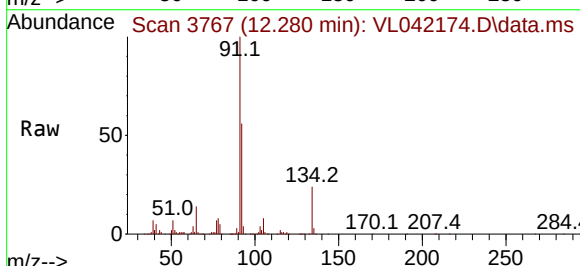
Tgt Ion: 91 Resp: 129860

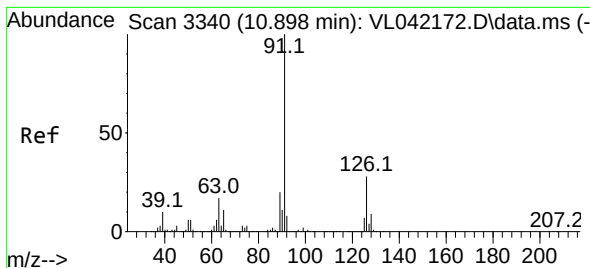
Ion Ratio Lower Upper

91 100

92 55.5 44.9 67.3

134 22.8 19.2 28.8





#71

2-Chlorotoluene

Concen: 1.047 ppbv

RT: 10.898 min Scan# 31

Delta R.T. 0.000 min

Lab File: VL042174.D

Acq: 27 Mar 2025 09:30

Instrument :

MSVOA_L

ClientSampleId :

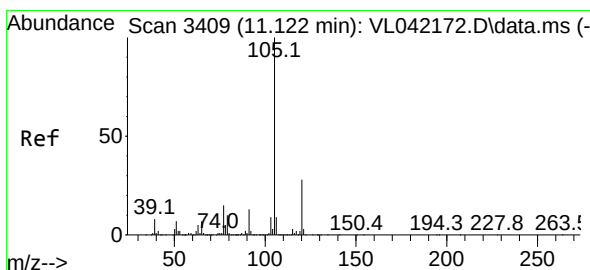
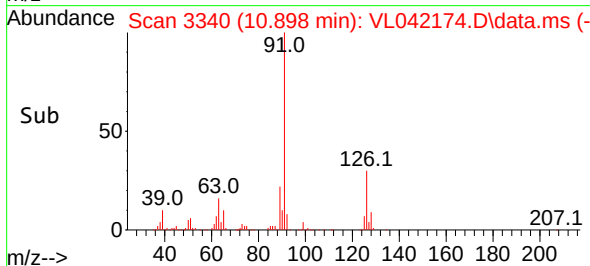
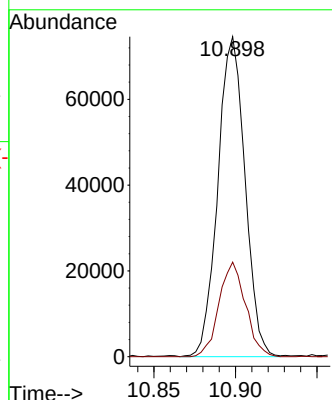
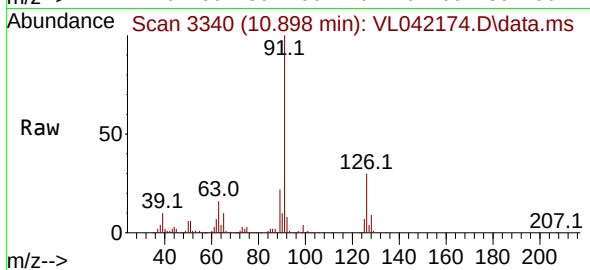
VSTDIC001

Tgt Ion: 91 Resp: 86356

Ion Ratio Lower Upper

91 100

126 28.8 11.6 46.4



#72

4-Ethyltoluene

Concen: 1.050 ppbv

RT: 11.122 min Scan# 3409

Delta R.T. 0.000 min

Lab File: VL042174.D

Acq: 27 Mar 2025 09:30

Tgt Ion: 105 Resp: 92912

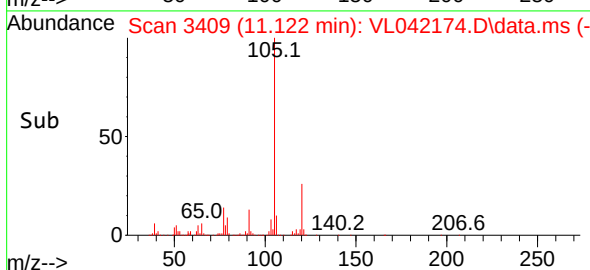
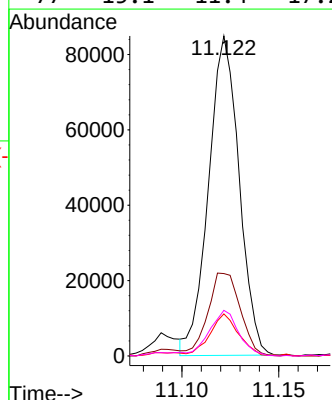
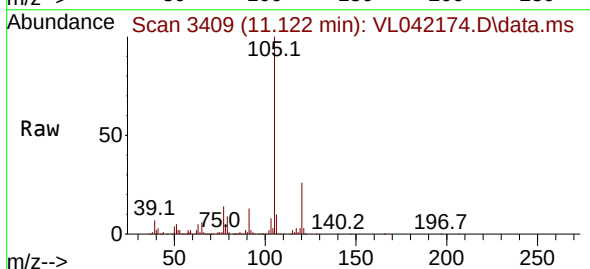
Ion Ratio Lower Upper

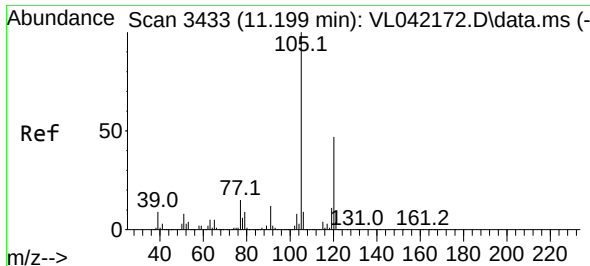
105 100

120 29.7 23.4 35.0

91 13.5 10.3 15.5

77 15.1 11.4 17.2

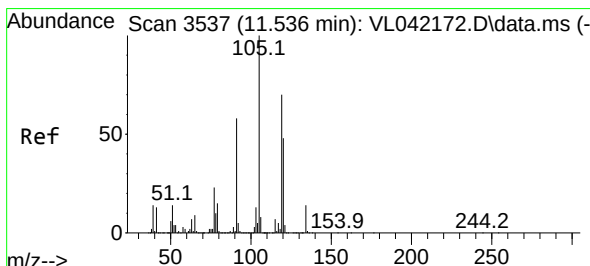
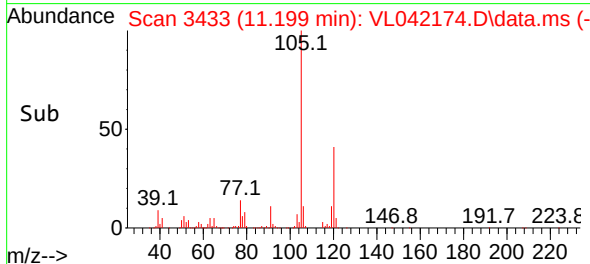
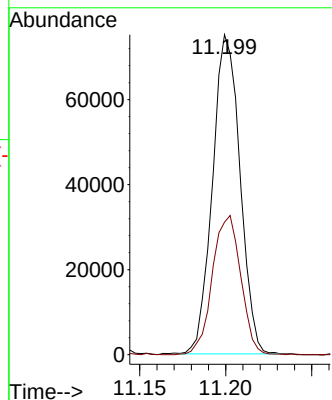
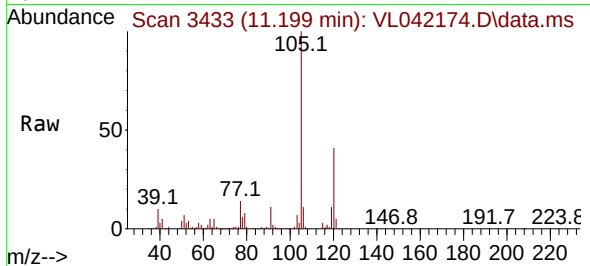




#73
 1,3,5-Trimethylbenzene
 Concen: 1.080 ppbv
 RT: 11.199 min Scan# 3433
 Delta R.T. 0.000 min
 Lab File: VL042174.D
 Acq: 27 Mar 2025 09:30

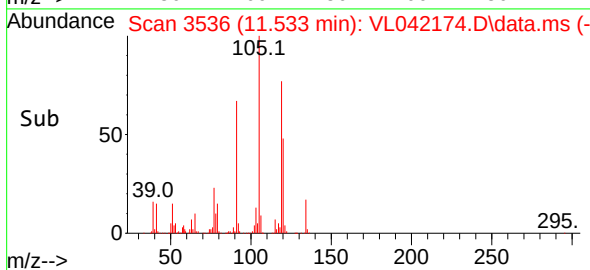
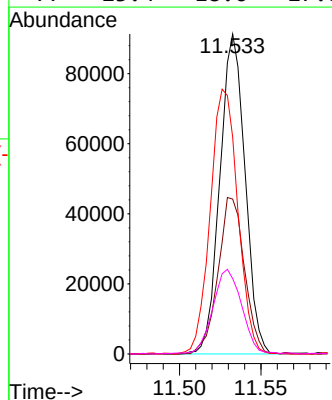
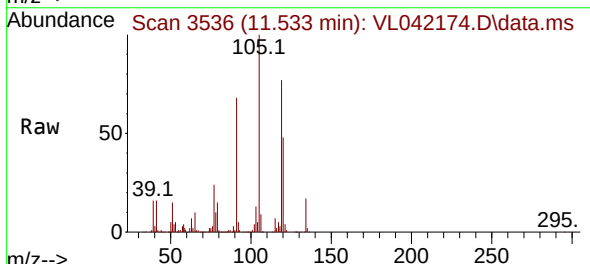
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC001

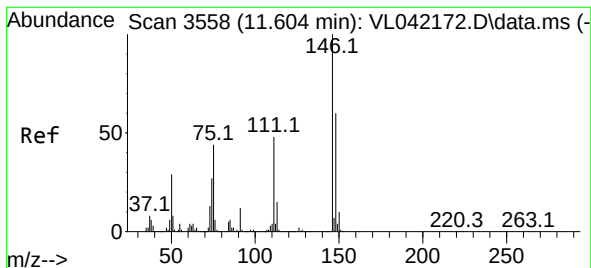
Tgt Ion:105 Resp: 83497
 Ion Ratio Lower Upper
 105 100
 120 41.3 37.4 56.0



#74
 1,2,4-Trimethylbenzene
 Concen: 1.099 ppbv
 RT: 11.533 min Scan# 3536
 Delta R.T. -0.003 min
 Lab File: VL042174.D
 Acq: 27 Mar 2025 09:30

Tgt Ion:105 Resp: 97858
 Ion Ratio Lower Upper
 105 100
 120 48.4 38.6 58.0
 91 67.6 46.2 69.2
 77 23.4 18.6 27.8





#75

1,3-Dichlorobenzene

Concen: 1.046 ppbv

RT: 11.604 min Scan# 3558

Delta R.T. 0.000 min

Lab File: VL042174.D

Acq: 27 Mar 2025 09:30

Instrument :

MSVOA_1

ClientSampleId :

VSTDIC001

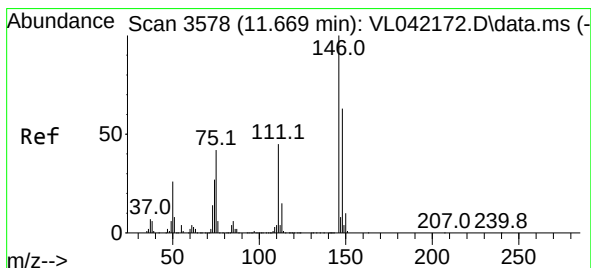
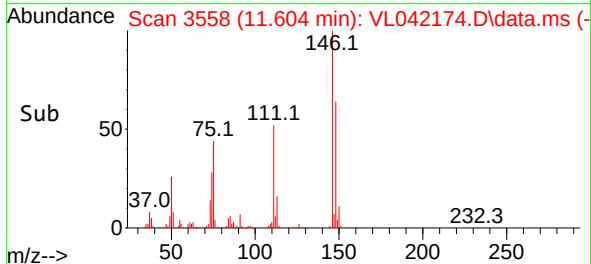
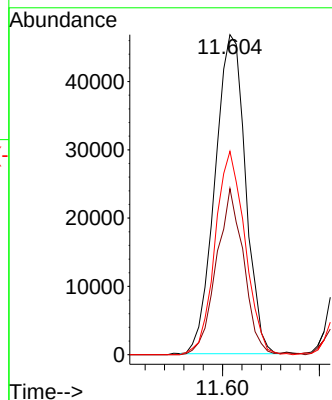
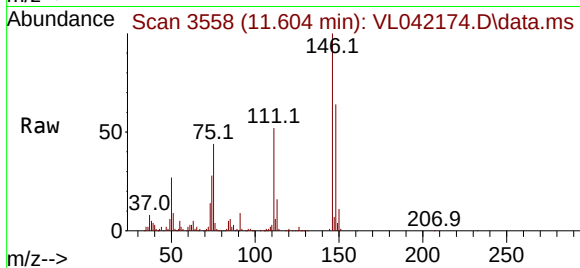
Tgt Ion:146 Resp: 51096

Ion Ratio Lower Upper

146 100

111 46.8 23.8 71.2

148 62.6 31.9 95.9



#76

1,4-Dichlorobenzene

Concen: 1.046 ppbv

RT: 11.669 min Scan# 3578

Delta R.T. 0.000 min

Lab File: VL042174.D

Acq: 27 Mar 2025 09:30

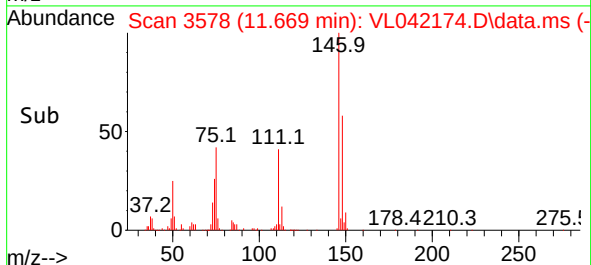
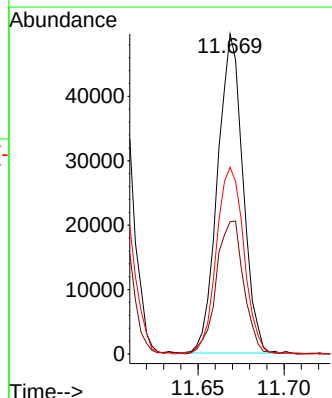
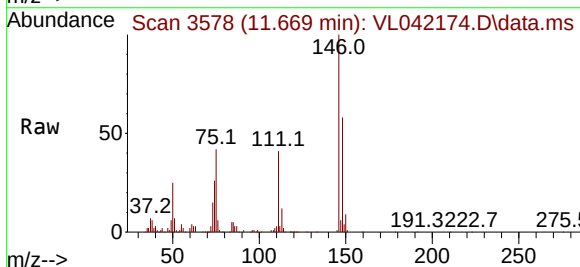
Tgt Ion:146 Resp: 50841

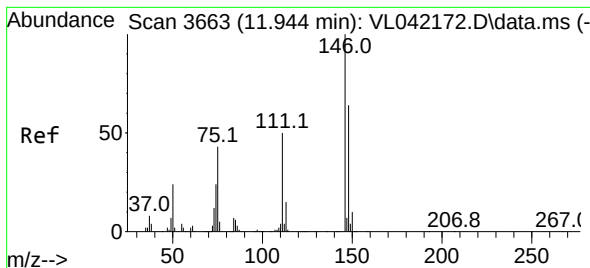
Ion Ratio Lower Upper

146 100

111 45.4 23.0 69.0

148 63.6 31.9 95.7





#77

1,2-Dichlorobenzene

Concen: 1.084 ppbv

RT: 11.944 min Scan# 3663

Delta R.T. 0.000 min

Lab File: VL042174.D

Acq: 27 Mar 2025 09:30

Instrument :

MSVOA_1

ClientSampleId :

VSTDIC001

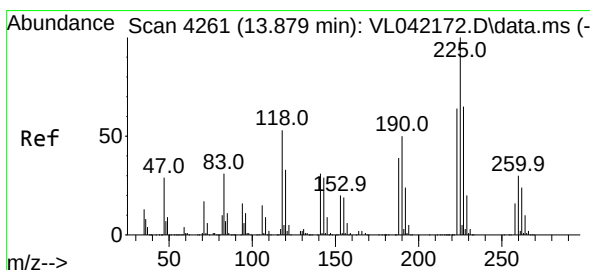
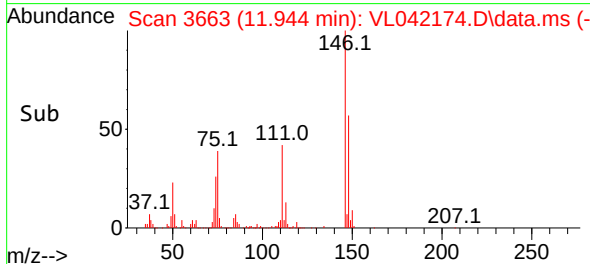
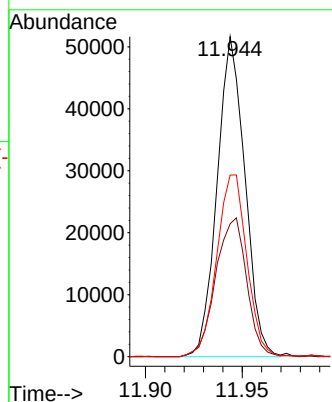
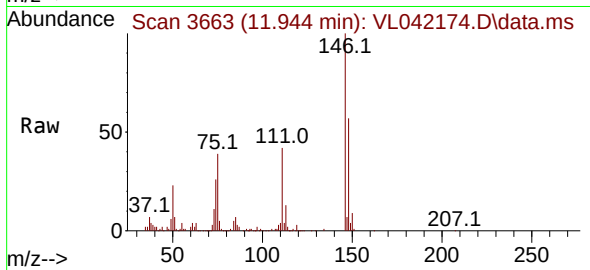
Tgt Ion:146 Resp: 51523

Ion Ratio Lower Upper

146 100

111 48.6 24.8 74.3

148 61.9 31.6 94.8



#78

Hexachloro-1,3-Butadiene

Concen: 1.149 ppbv

RT: 13.879 min Scan# 4261

Delta R.T. 0.000 min

Lab File: VL042174.D

Acq: 27 Mar 2025 09:30

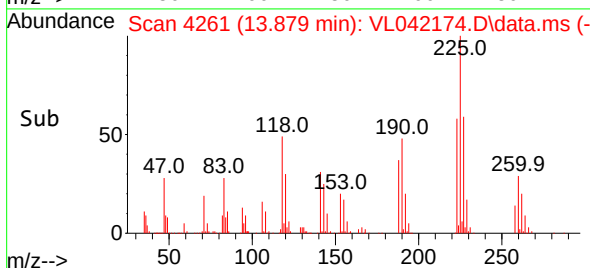
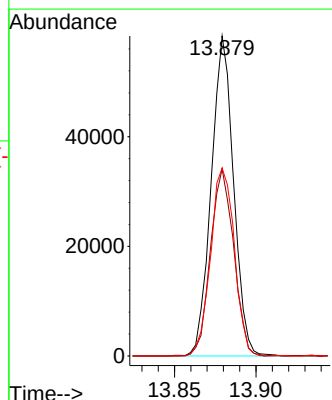
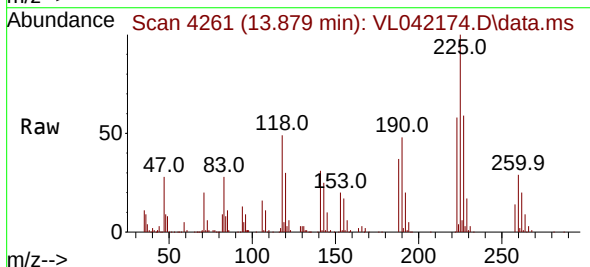
Tgt Ion:225 Resp: 55611

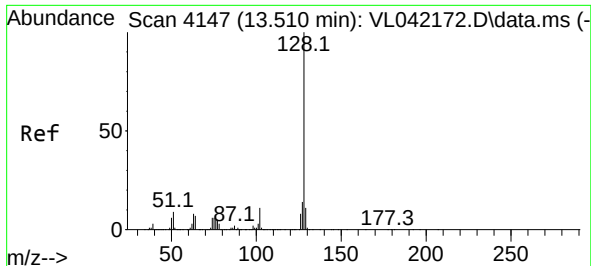
Ion Ratio Lower Upper

225 100

223 60.8 50.6 76.0

227 62.3 51.2 76.8

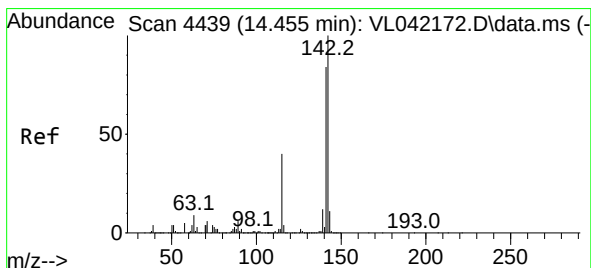
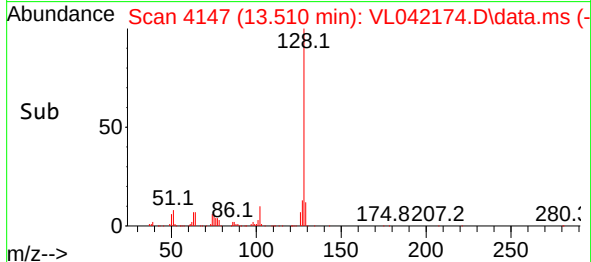
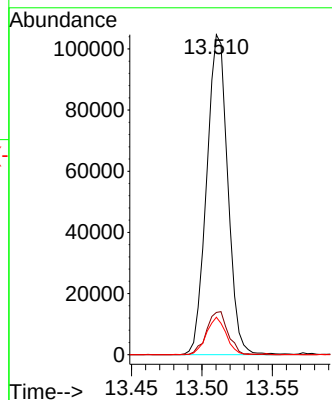
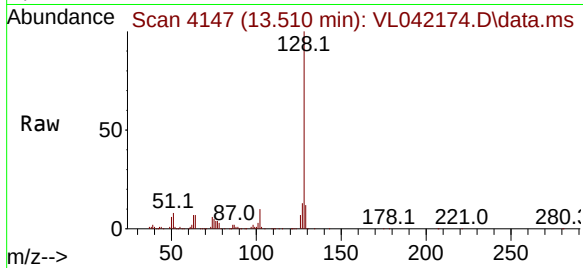




#79
Naphthalene
Concen: 1.120 ppbv
RT: 13.510 min Scan# 4147
Delta R.T. 0.000 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

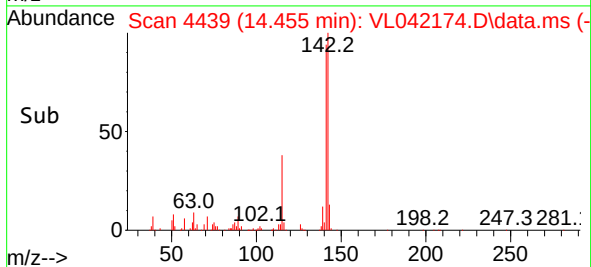
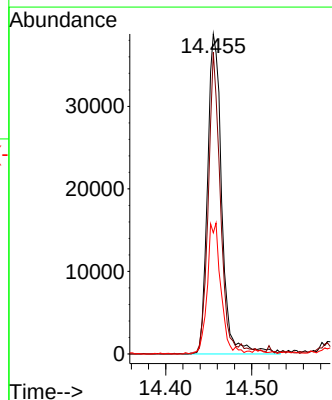
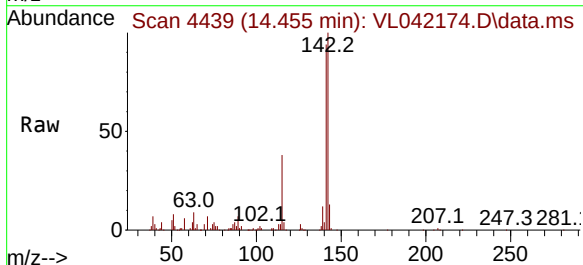
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

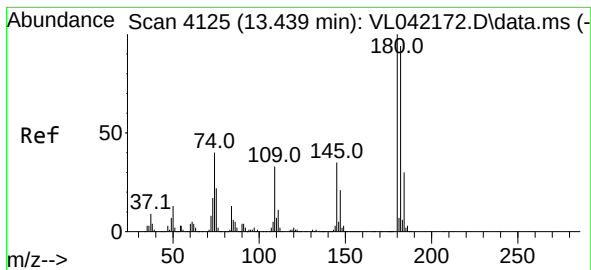
Tgt Ion:128 Resp: 109031
Ion Ratio Lower Upper
128 100
127 13.2 10.8 16.2
129 11.7 9.0 13.4



#80
Naphthalene,2-methyl-
Concen: 0.939 ppbv
RT: 14.455 min Scan# 4439
Delta R.T. 0.000 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

Tgt Ion:142 Resp: 44518
Ion Ratio Lower Upper
142 100
141 83.4 66.3 99.5
115 41.5 31.6 47.4





#81

1,2,4-Trichlorobenzene

Concen: 1.047 ppbv

RT: 13.436 min Scan# 41

Delta R.T. -0.003 min

Lab File: VL042174.D

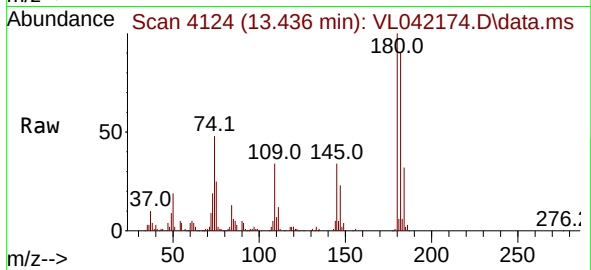
Acq: 27 Mar 2025 09:30

Instrument :

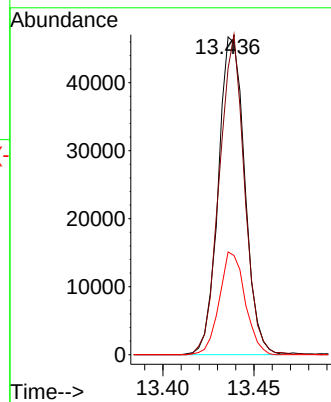
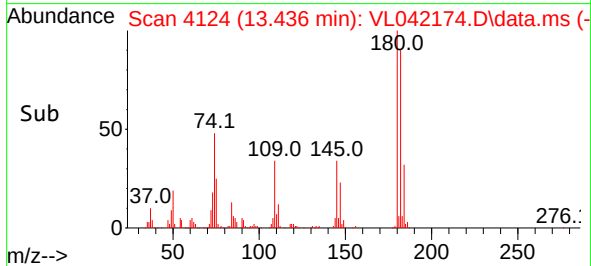
MSVOA_L

ClientSampleId :

VSTDIC001



Tgt Ion:	180	Resp:	47040
Ion	Ratio	Lower	Upper
180	100		
182	95.7	75.1	112.7
184	31.4	24.4	36.6



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
 Data File : VL042175.D
 Acq On : 27 Mar 2025 10:01
 Operator : SY/MD
 Sample : VSTDICC0.5
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC0.5

Quant Time: Mar 28 01:34:42 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri Mar 28 01:31:23 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.784	49	180502	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.952	114	523832	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.875	117	485078	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.370	95	403513	10.130	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.300%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.496	85	14455	0.542	ppbv	95
3) Chlorodifluoromethane	1.473	51	14637	0.538	ppbv #	89
4) Chloromethane	1.531	50	5956	0.547	ppbv	94
5) Vinyl Chloride	1.577	62	5732	0.516	ppbv	92
6) Bromomethane	1.664	94	2949	0.597	ppbv	95
7) Chloroethane	1.703	64	2582	0.591	ppbv #	87
8) Dichlorotetrafluoroethane	1.551	85	11783	0.519	ppbv	98
9) Propene	1.557	41	2054	0.167	ppbv	92
10) Heptane	4.972	43	16673	0.502	ppbv	89
11) Trichlorofluoromethane	1.874	101	14099	0.544	ppbv	92
12) 1,1,2-Trichlorotrifluo...	2.136	101	11252	0.528	ppbv	99
13) Ethanol	1.722	45	997	1.038	ppbv #	36
14) Bromoethene	1.780	108	4770	0.584	ppbv #	86
15) Acetone	1.835	43	15331	0.607	ppbv #	85
16) 1,3-Butadiene	1.606	39	8594	0.757	ppbv	82
17) tert-Butyl alcohol	2.039	59	17467	0.556	ppbv	97
18) 1,1-Dichloroethene	2.030	96	5634	0.565	ppbv #	92
19) Isopropyl Alcohol	1.884	45	9171	0.644	ppbv #	39
20) Methylene Chloride	2.059	84	5634	0.599	ppbv #	93
21) Allyl Chloride	2.091	41	9632	0.541	ppbv	89
22) trans-1,2-Dichloroethene	2.334	96	6353	0.546	ppbv	83
23) Vinyl Acetate	2.457	43	6809	0.649	ppbv #	91
24) 1,1-Dichloroethane	2.405	63	11258	0.527	ppbv	97
25) Ethyl Acetate	2.836	43	36258	0.553	ppbv	98
26) Hexane	2.823	57	13605	0.538	ppbv	92
27) Carbon Disulfide	2.146	76	14510	0.535	ppbv #	1
28) Methyl tert-Butyl Ether	2.437	73	8310	0.527	ppbv #	89
29) Chloroform	2.845	83	20149	0.544	ppbv	98
30) Cyclohexane	3.852	84	9635	0.438	ppbv #	70
31) cis-1,2-Dichloroethene	2.719	61	13601	0.529	ppbv	92
32) 1,1,1-Trichloroethane	3.360	97	20567	0.485	ppbv	100
34) 2-Butanone	2.557	43	19739	0.520	ppbv	96
35) Carbon Tetrachloride	3.755	117	18558	0.460	ppbv	93
36) Benzene	3.651	78	27488	0.529	ppbv #	87
37) 1,2-Dichloroethane	3.214	62	16062	0.540	ppbv	100
38) Trichloroethene	4.545	130	4992	0.230	ppbv	95
39) 1,2-Dichloropropane	4.308	63	10123	0.535	ppbv	92
40) 1,4-Dioxane	4.593	88	4487	0.457	ppbv #	24
41) Tetrahydrofuran	3.059	42	10856	0.502	ppbv	94
42) Bromodichloromethane	4.483	83	20374	0.497	ppbv #	98
43) Methyl Methacrylate	4.875	69	6229	0.284	ppbv #	10
44) 2,2,4-Trimethylpentane	4.632	57	46646	0.532	ppbv	95
45) t-1,3-Dichloropropene	6.406	75	12404	0.526	ppbv #	79

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
 Data File : VL042175.D
 Acq On : 27 Mar 2025 10:01
 Operator : SY/MD
 Sample : VSTDICC0.5
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC0.5

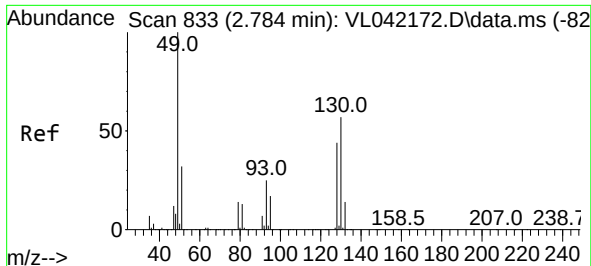
Quant Time: Mar 28 01:34:42 2025
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 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri Mar 28 01:31:23 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.593	75	8584	0.297	ppbv #	91
47) 1,1,2-Trichloroethane	6.574	97	8374	0.419	ppbv	96
48) Dibromochloromethane	7.380	129	17042	0.503	ppbv	99
49) Bromoform	9.480	173	14828	0.487	ppbv	98
50) 4-Methyl-2-Pentanone	5.758	43	33674	0.559	ppbv	97
51) 2-Hexanone	7.438	43	26154	0.523	ppbv #	100
52) Tetrachloroethene	8.218	164	10502	0.510	ppbv	94
53) Toluene	6.923	91	32444	0.527	ppbv	98
54) 1,2-Dibromoethane	7.648	107	14220	0.510	ppbv	99
56) 1,1,1,2-Tetrachloroethane	8.920	131	13959	0.523	ppbv #	1
57) Chlorobenzene	8.914	112	24826	0.540	ppbv #	91
58) Ethyl Benzene	9.348	91	44862	0.521	ppbv	96
59) m/p-Xylene	9.548	91	18711	0.272	ppbv #	1
60) o-Xylene	9.959	91	36879	0.535	ppbv	98
61) Styrene	9.866	104	17198	0.504	ppbv	96
62) Isopropylbenzene	10.536	105	55531	0.538	ppbv	99
63) 1,1,2,2-Tetrachloroethane	9.959	83	21989	0.525	ppbv	96
64) n-propylbenzene	10.985	120	14030	0.528	ppbv	95
65) tert-Butylbenzene	11.526	119	53115	0.557	ppbv	100
66) Benzyl Chloride	11.613	91	5263	0.520	ppbv	97
67) sec-Butylbenzene	11.762	105	72879	0.550	ppbv	98
69) p-Isopropyltoluene	11.921	119	61933	0.542	ppbv	100
70) n-Butylbenzene	12.277	91	61507	0.527	ppbv	99
71) 2-Chlorotoluene	10.895	91	41637	0.520	ppbv	95
72) 4-Ethyltoluene	11.121	105	44473	0.518	ppbv #	94
73) 1,3,5-Trimethylbenzene	11.199	105	39190	0.523	ppbv	97
74) 1,2,4-Trimethylbenzene	11.532	105	48370	0.560	ppbv	97
75) 1,3-Dichlorobenzene	11.600	146	25122	0.530	ppbv	100
76) 1,4-Dichlorobenzene	11.668	146	24991	0.530	ppbv	97
77) 1,2-Dichlorobenzene	11.943	146	24548	0.532	ppbv	96
78) Hexachloro-1,3-Butadiene	13.879	225	25636	0.546	ppbv	99
79) Naphthalene	13.510	128	47990	0.508	ppbv	95
80) Naphthalene,2-methyl-	14.458	142	17486	0.380	ppbv	98
81) 1,2,4-Trichlorobenzene	13.436	180	19924	0.457	ppbv	97

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

Quant Time: Mar 28 01:34:42 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Mar 28 01:31:23 2025
Response via : Initial Calibration

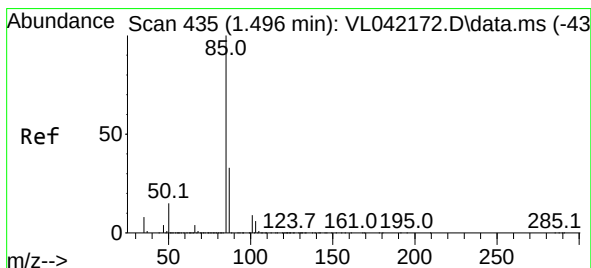
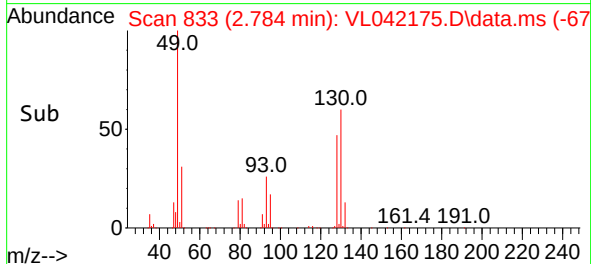
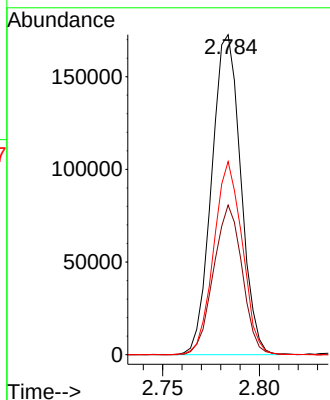
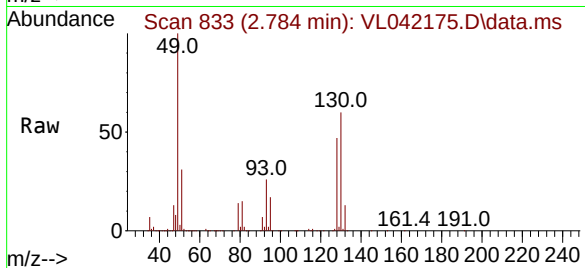




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 833
Delta R.T. -0.000 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

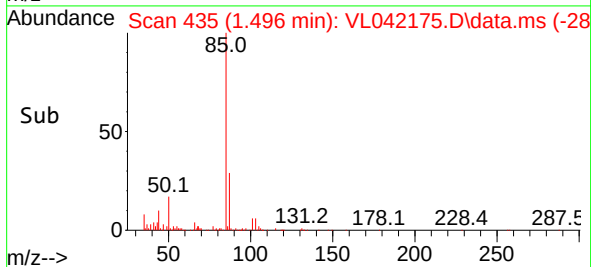
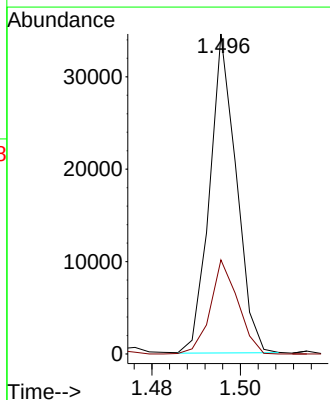
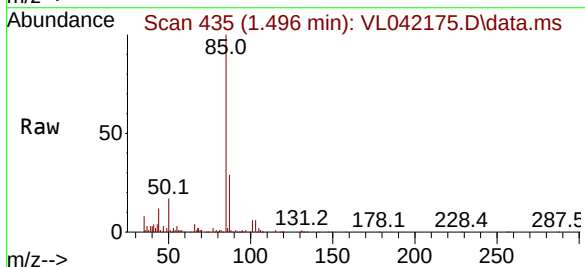
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MSVOA_L
ClientSampleId :
VSTDIC0.5

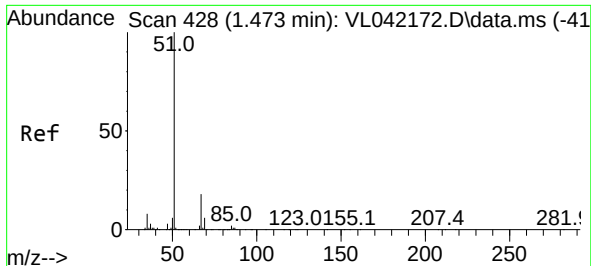
Tgt Ion: 49 Resp: 180502
Ion Ratio Lower Upper
49 100
128 46.1 22.9 68.5
130 59.2 28.8 86.4



#2
Dichlorodifluoromethane
Concen: 0.542 ppbv
RT: 1.496 min Scan# 435
Delta R.T. -0.000 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

Tgt Ion: 85 Resp: 14455
Ion Ratio Lower Upper
85 100
87 29.5 26.1 39.1

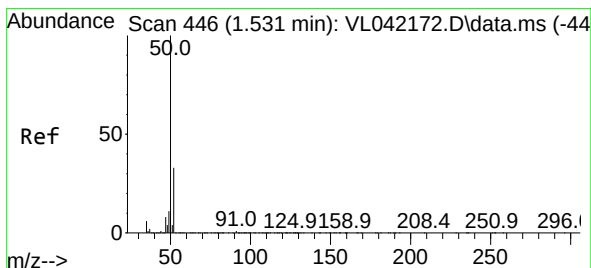
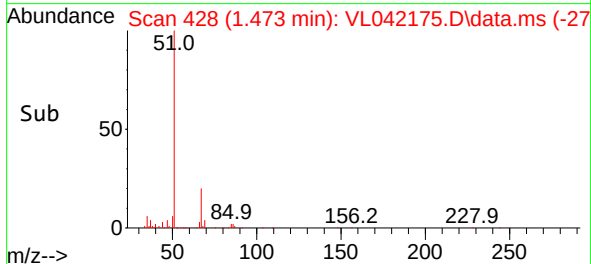
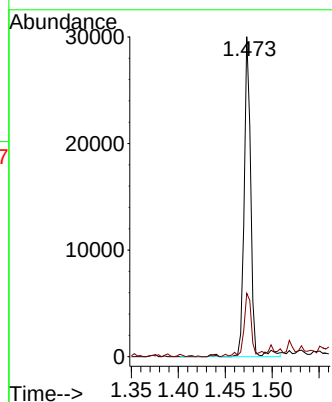
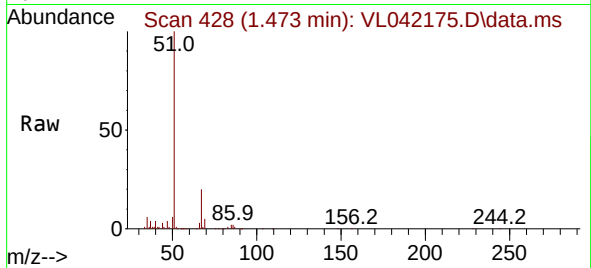




#3
Chlorodifluoromethane
Concen: 0.538 ppbv
RT: 1.473 min Scan# 41
Delta R.T. -0.000 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

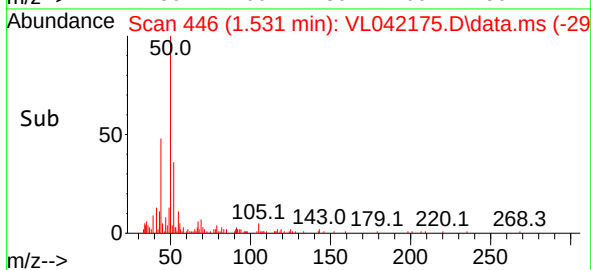
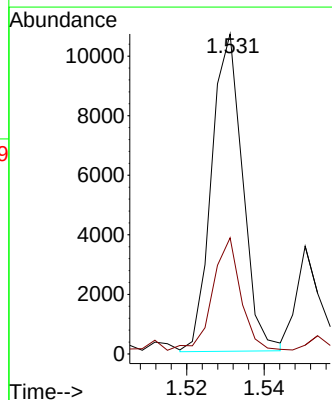
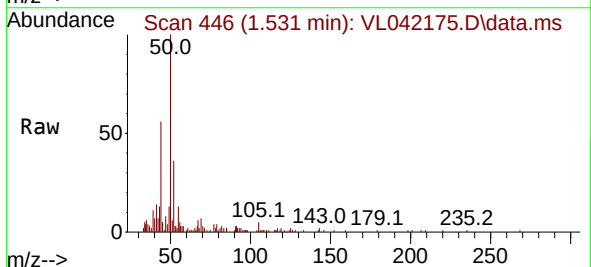
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

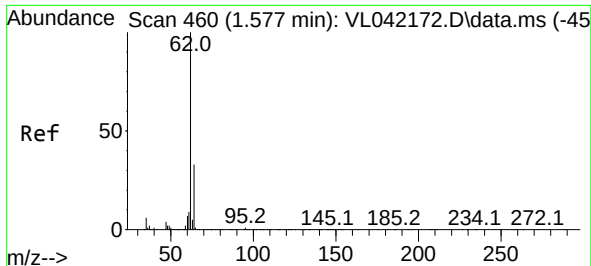
Tgt Ion: 51 Resp: 14637
Ion Ratio Lower Upper
51 100
67 23.6 15.0 22.6#



#4
Chloromethane
Concen: 0.547 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

Tgt Ion: 50 Resp: 5956
Ion Ratio Lower Upper
50 100
52 36.1 26.1 39.1

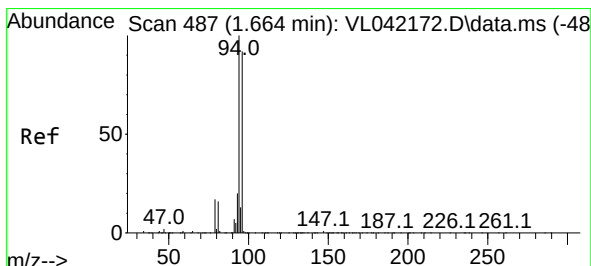
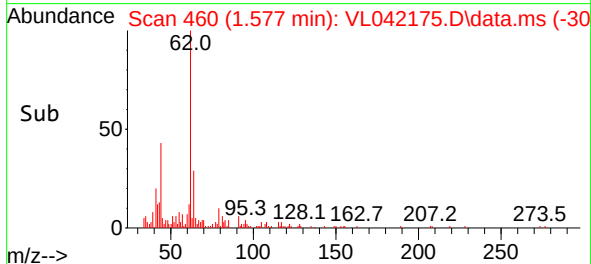
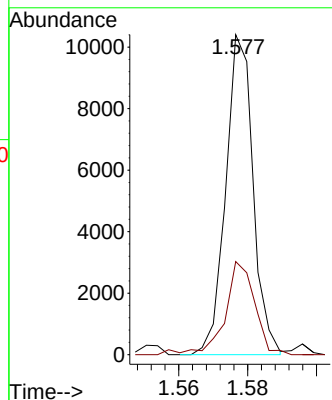
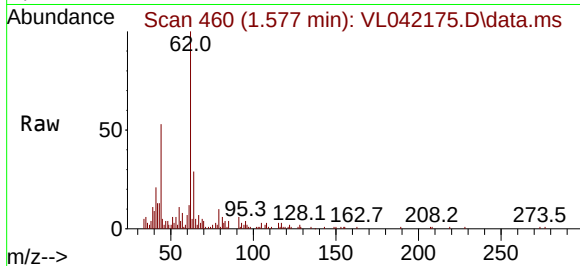




#5
 Vinyl Chloride
 Concen: 0.516 ppbv
 RT: 1.577 min Scan# 460
 Delta R.T. -0.000 min
 Lab File: VL042175.D
 Acq: 27 Mar 2025 10:01

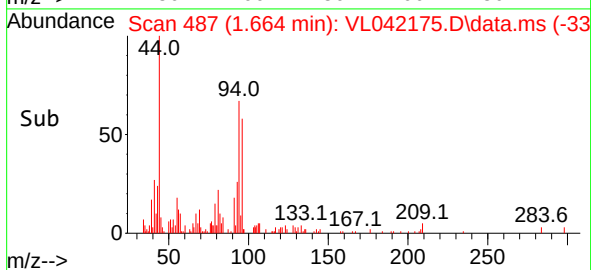
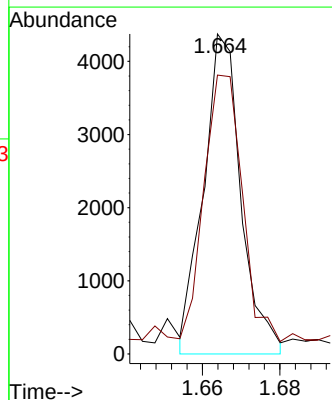
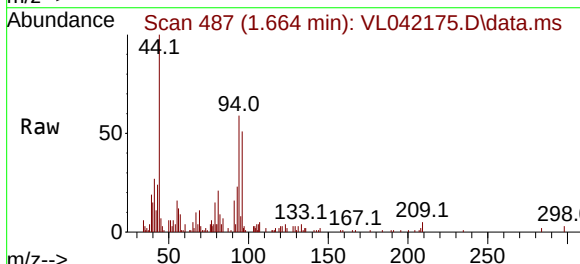
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC0.5

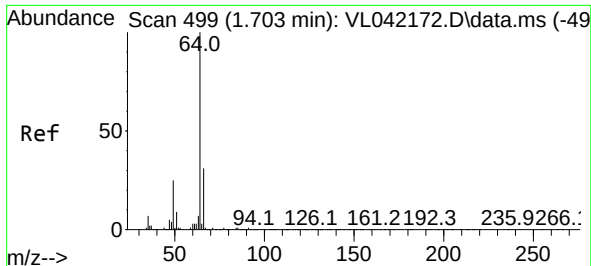
Tgt Ion: 62 Resp: 5732
 Ion Ratio Lower Upper
 62 100
 64 28.5 26.6 40.0



#6
 Bromomethane
 Concen: 0.597 ppbv
 RT: 1.664 min Scan# 487
 Delta R.T. -0.000 min
 Lab File: VL042175.D
 Acq: 27 Mar 2025 10:01

Tgt Ion: 94 Resp: 2949
 Ion Ratio Lower Upper
 94 100
 96 86.2 73.1 109.7

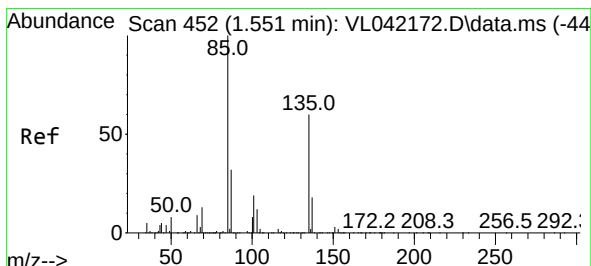
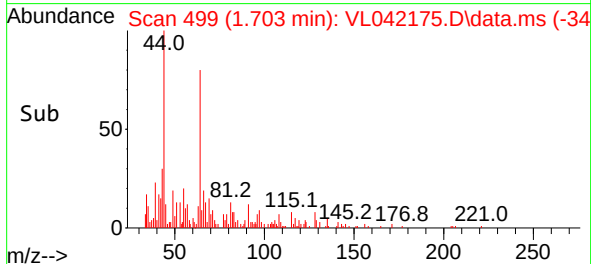
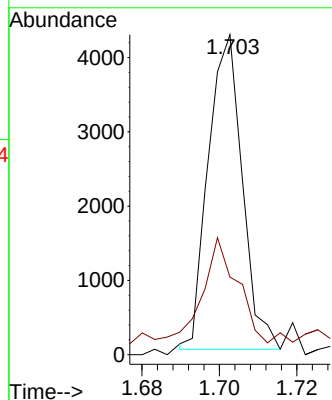
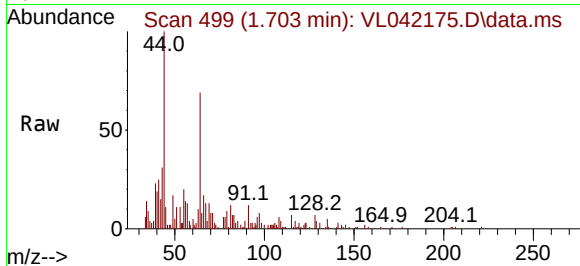




#7
Chloroethane
Concen: 0.591 ppbv
RT: 1.703 min Scan# 499
Delta R.T. -0.000 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

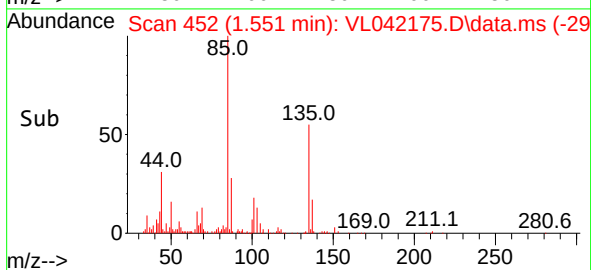
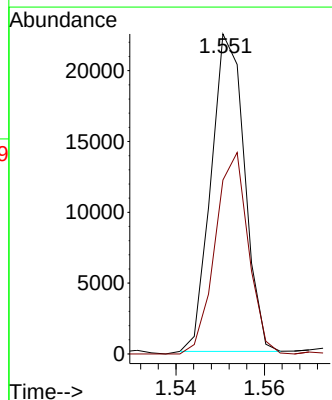
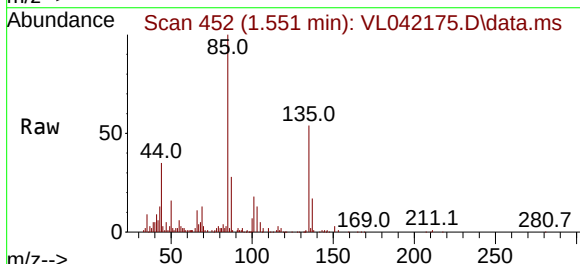
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.5

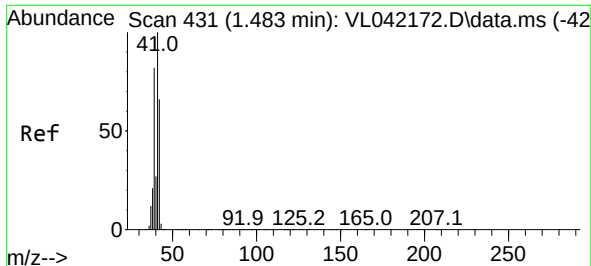
Tgt Ion: 64 Resp: 2582
Ion Ratio Lower Upper
64 100
66 24.2 25.2 37.8#



#8
Dichlorotetrafluoroethane
Concen: 0.519 ppbv
RT: 1.551 min Scan# 452
Delta R.T. -0.000 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

Tgt Ion: 85 Resp: 11783
Ion Ratio Lower Upper
85 100
135 63.7 52.4 78.6





#9

Propene

Concen: 0.167 ppbv

RT: 1.557 min Scan# 41

Delta R.T. 0.074 min

Lab File: VL042175.D

Acq: 27 Mar 2025 10:01

Instrument :

MSVOA_1

ClientSampleId :

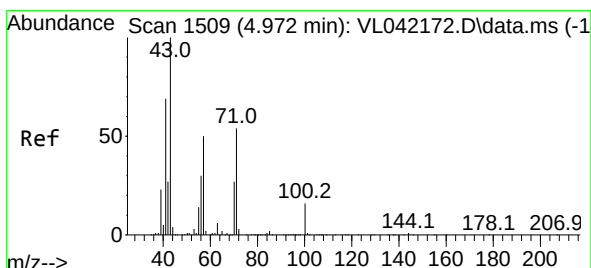
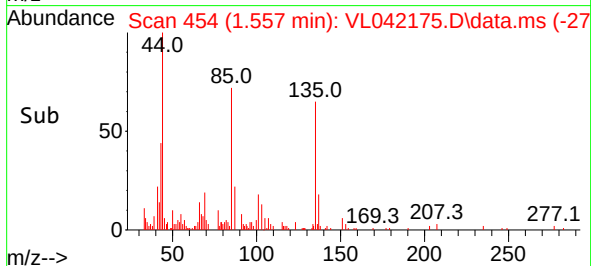
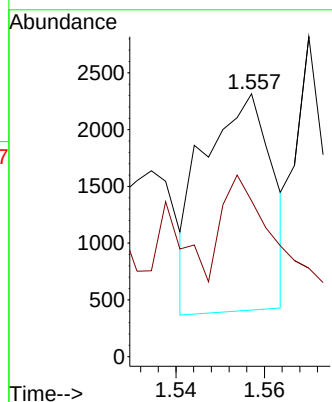
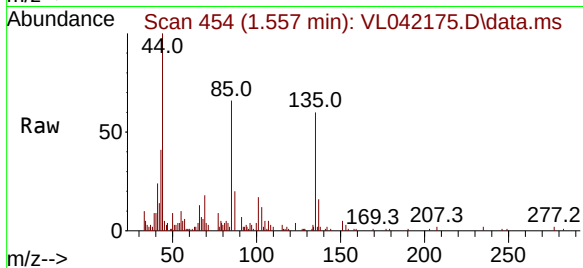
VSTDICC0.5

Tgt Ion: 41 Resp: 2054

Ion Ratio Lower Upper

41 100

42 62.9 55.4 83.2



#10

Heptane

Concen: 0.502 ppbv

RT: 4.972 min Scan# 1509

Delta R.T. -0.000 min

Lab File: VL042175.D

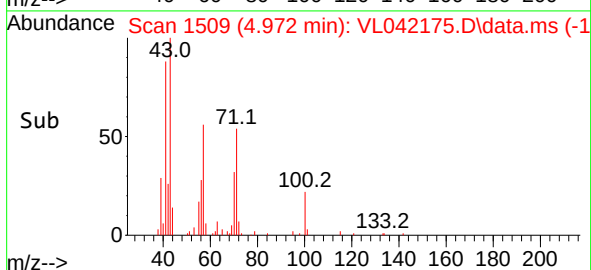
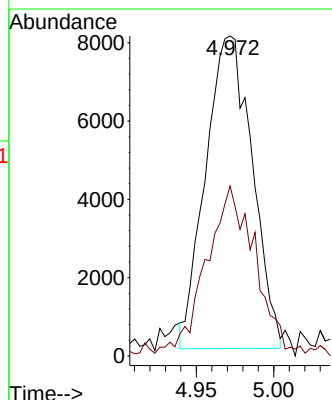
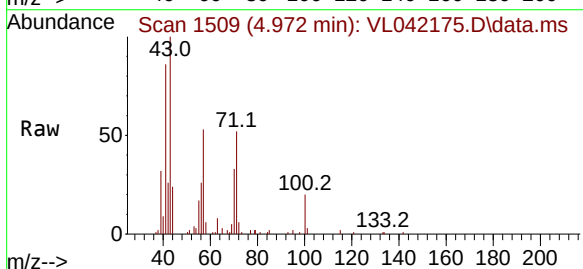
Acq: 27 Mar 2025 10:01

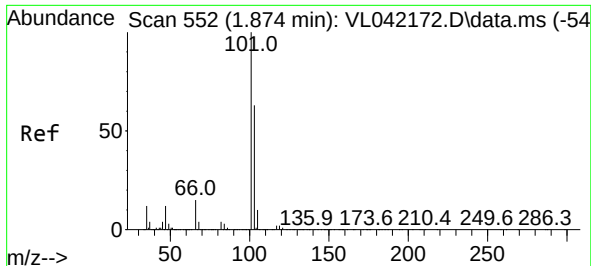
Tgt Ion: 43 Resp: 16673

Ion Ratio Lower Upper

43 100

57 57.0 39.4 59.2

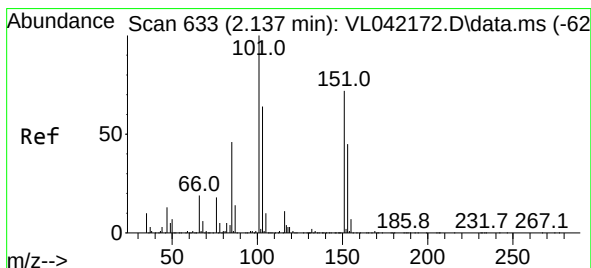
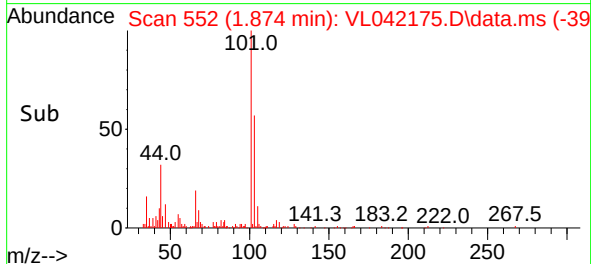
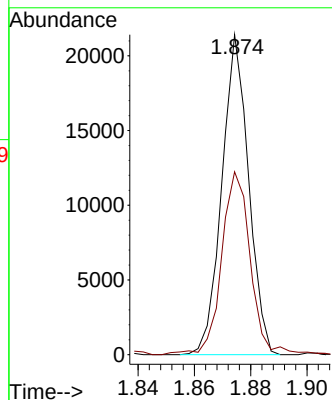
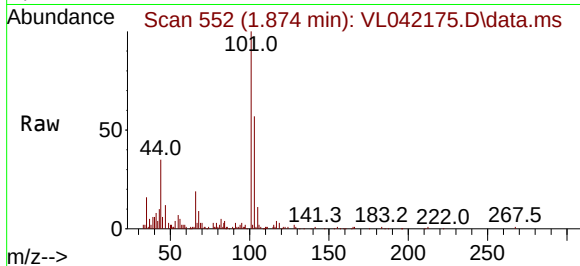




#11
 Trichlorofluoromethane
 Concen: 0.544 ppbv
 RT: 1.874 min Scan# 511
 Delta R.T. -0.000 min
 Lab File: VL042175.D
 Acq: 27 Mar 2025 10:01

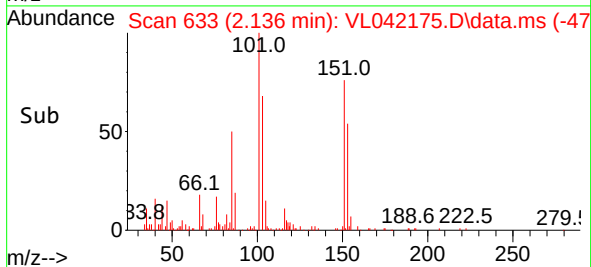
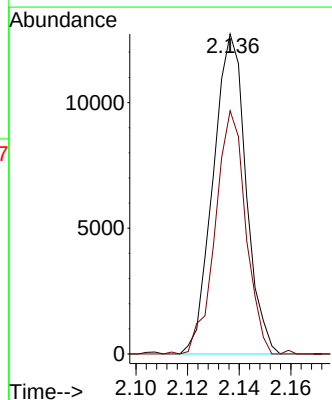
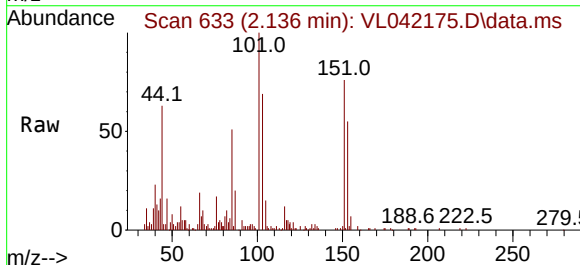
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

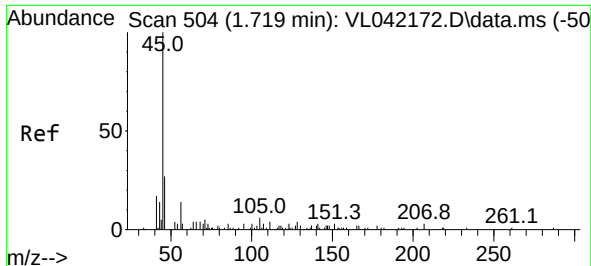
Tgt Ion:101 Resp: 14099
 Ion Ratio Lower Upper
 101 100
 103 56.3 50.2 75.2



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.528 ppbv
 RT: 2.136 min Scan# 633
 Delta R.T. -0.000 min
 Lab File: VL042175.D
 Acq: 27 Mar 2025 10:01

Tgt Ion:101 Resp: 11252
 Ion Ratio Lower Upper
 101 100
 151 70.6 57.1 85.7

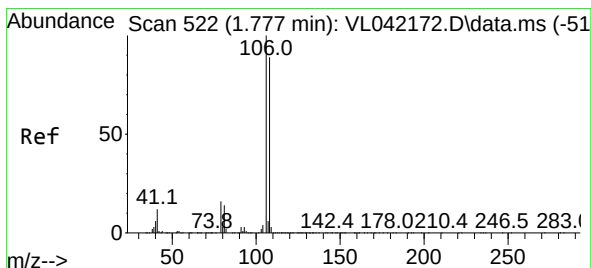
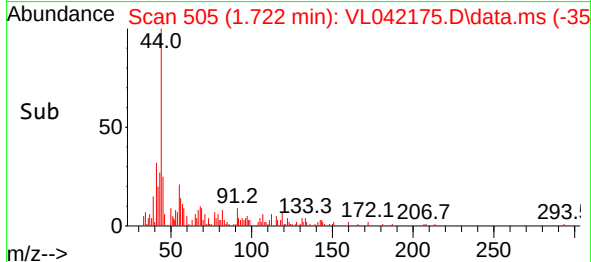
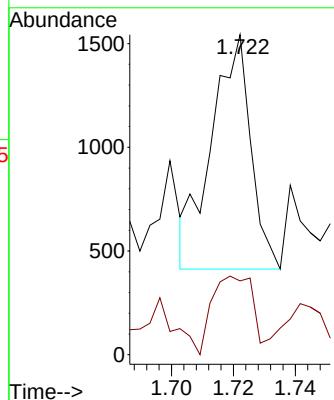
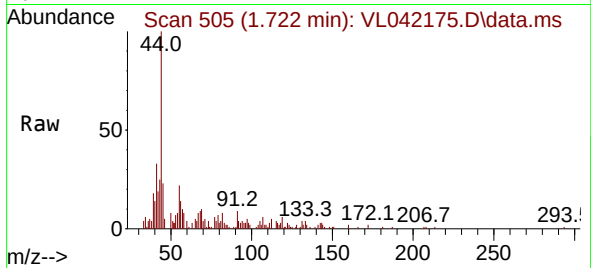




#13
Ethanol
Concen: 1.038 ppbv
RT: 1.722 min Scan# 504
Delta R.T. 0.003 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

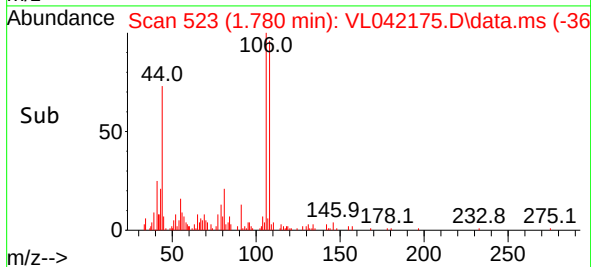
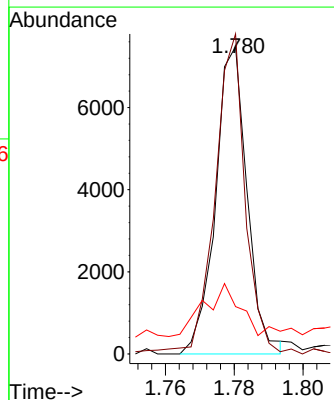
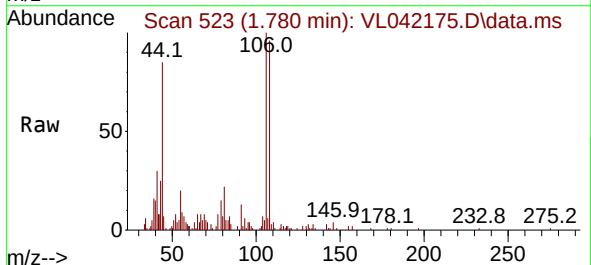
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

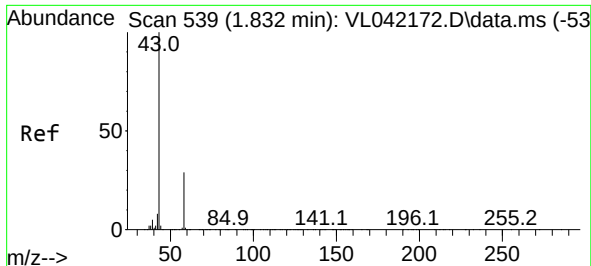
Tgt Ion: 45 Resp: 997
Ion Ratio Lower Upper
45 100
46 94.5 20.2 80.8#



#14
Bromoethene
Concen: 0.584 ppbv
RT: 1.780 min Scan# 523
Delta R.T. 0.003 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

Tgt Ion: 108 Resp: 4770
Ion Ratio Lower Upper
108 100
106 101.3 86.8 130.2
79 42.6 15.0 22.6#

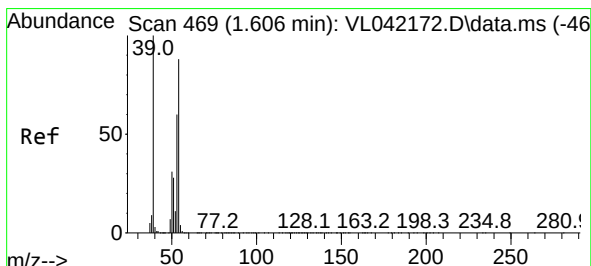
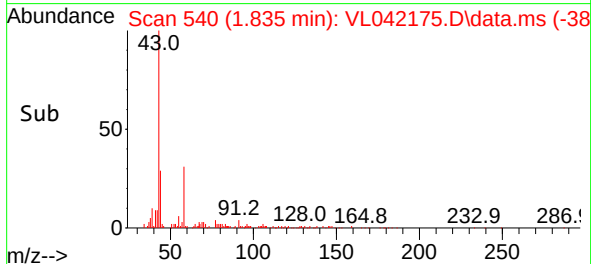
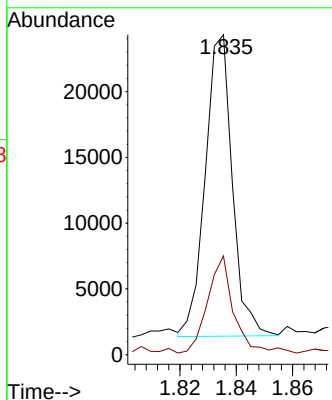
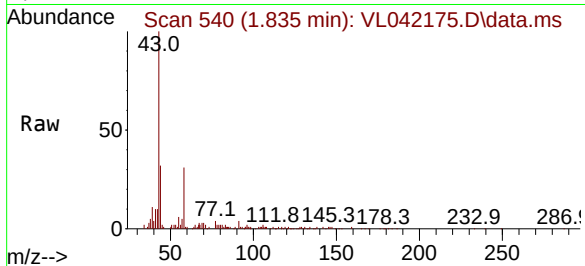




#15
Acetone
Concen: 0.607 ppbv
RT: 1.835 min Scan# 54
Delta R.T. 0.003 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

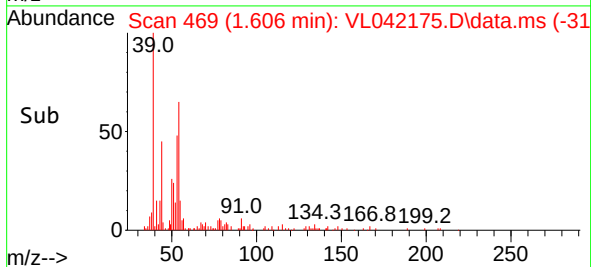
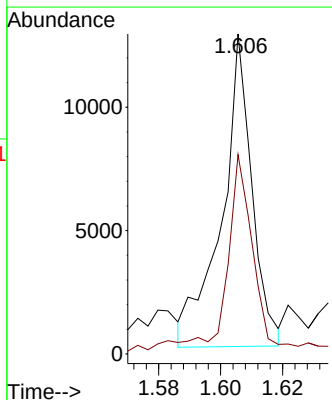
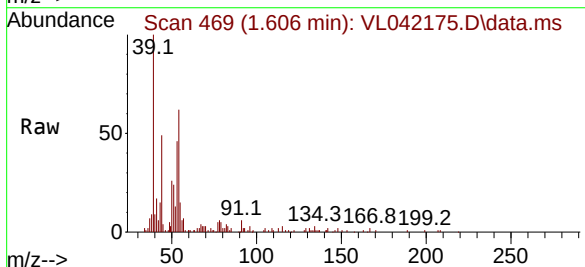
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

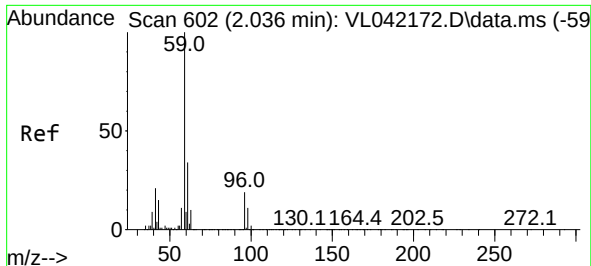
Tgt Ion: 43 Resp: 15331
Ion Ratio Lower Upper
43 100
58 37.1 23.2 34.8#



#16
1,3-Butadiene
Concen: 0.757 ppbv
RT: 1.606 min Scan# 469
Delta R.T. -0.000 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

Tgt Ion: 39 Resp: 8594
Ion Ratio Lower Upper
39 100
54 60.7 60.7 91.1





#17

tert-Butyl alcohol

Concen: 0.556 ppbv

RT: 2.039 min Scan# 60

Delta R.T. 0.003 min

Lab File: VL042175.D

Acq: 27 Mar 2025 10:01

Instrument :

MSVOA_L

ClientSampleId :

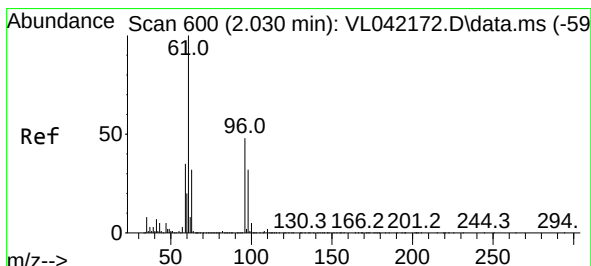
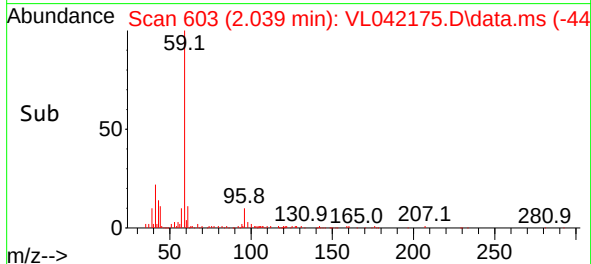
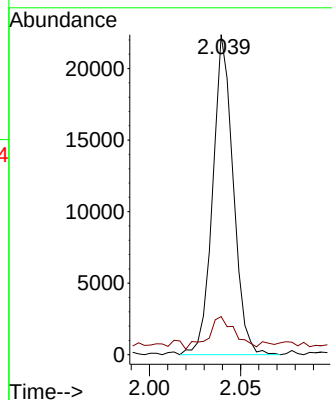
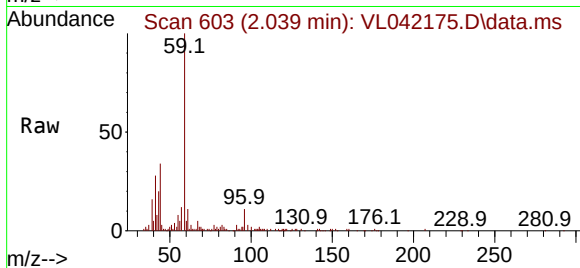
VSTDIC0.5

Tgt Ion: 59 Resp: 17467

Ion Ratio Lower Upper

59 100

57 12.1 8.9 13.3



#18

1,1-Dichloroethene

Concen: 0.565 ppbv

RT: 2.030 min Scan# 600

Delta R.T. -0.000 min

Lab File: VL042175.D

Acq: 27 Mar 2025 10:01

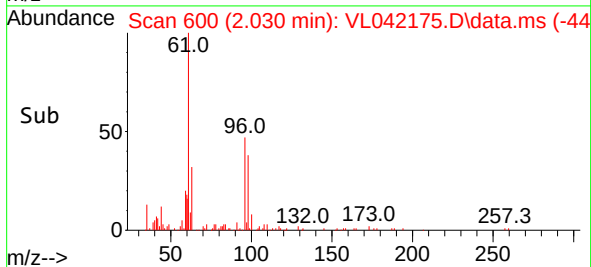
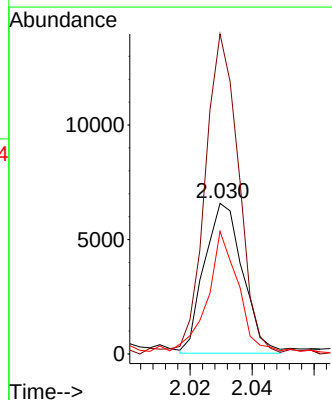
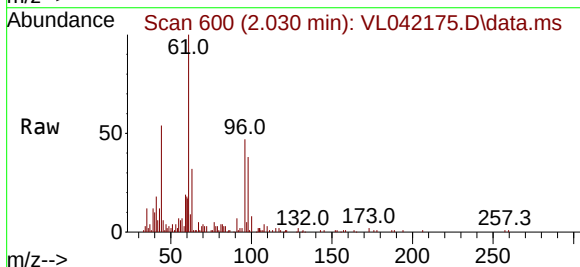
Tgt Ion: 96 Resp: 5634

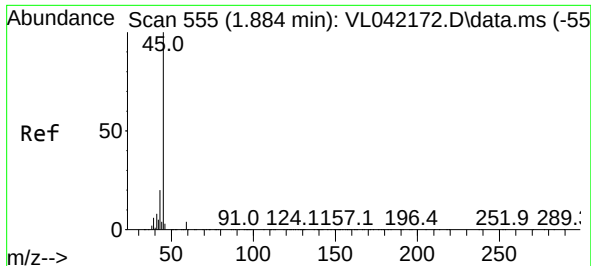
Ion Ratio Lower Upper

96 100

61 216.6 167.6 251.4

98 81.2 53.5 80.3#

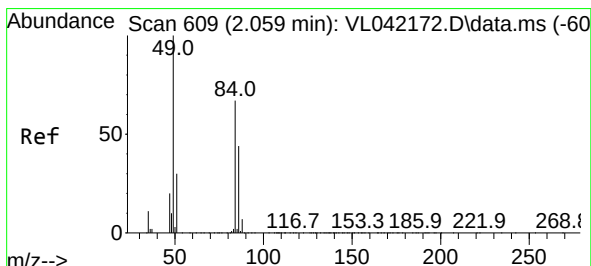
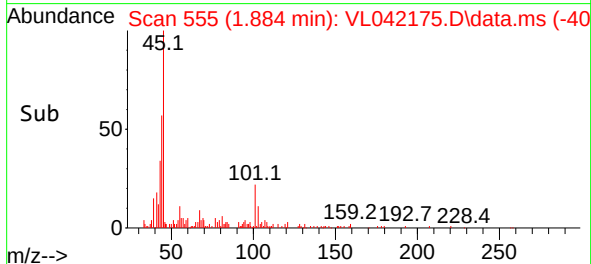
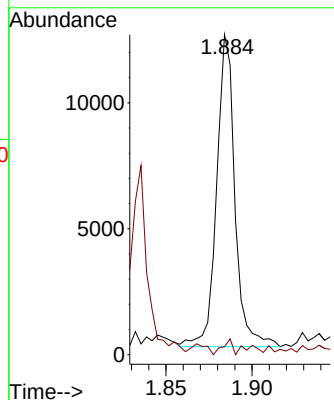
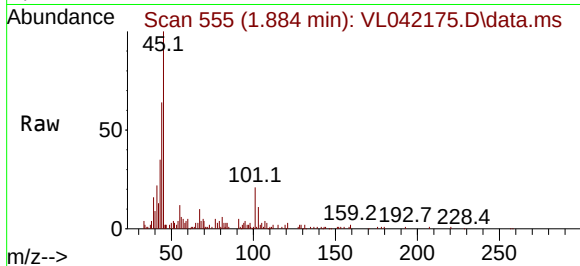




#19
Isopropyl Alcohol
Concen: 0.644 ppbv
RT: 1.884 min Scan# 511
Delta R.T. -0.000 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

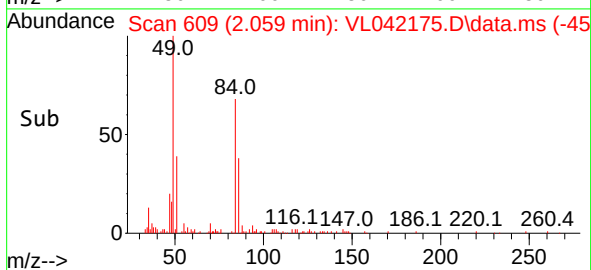
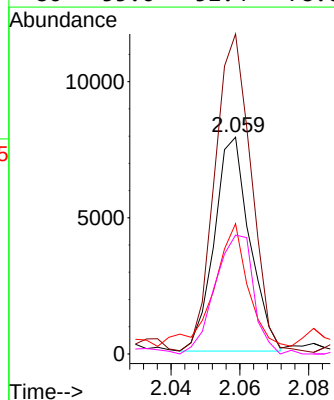
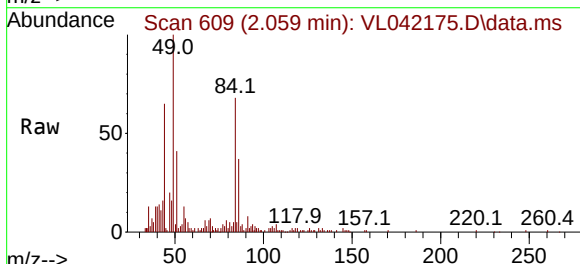
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.5

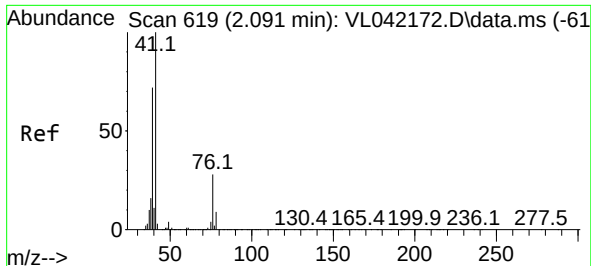
Tgt Ion: 45 Resp: 9171
Ion Ratio Lower Upper
45 100
58 5.5 36.9 55.3#



#20
Methylene Chloride
Concen: 0.599 ppbv
RT: 2.059 min Scan# 609
Delta R.T. -0.000 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

Tgt Ion: 84 Resp: 5634
Ion Ratio Lower Upper
84 100
49 148.1 120.2 180.4
51 56.1 37.4 56.0#
86 55.6 52.4 78.6

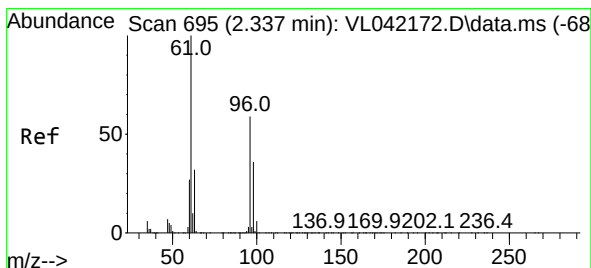
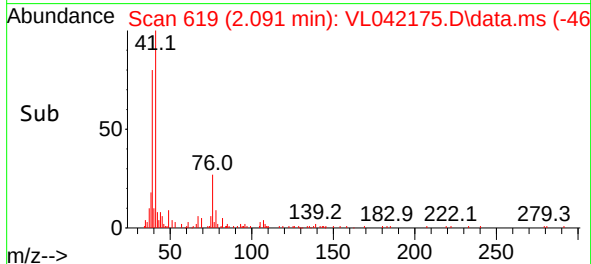
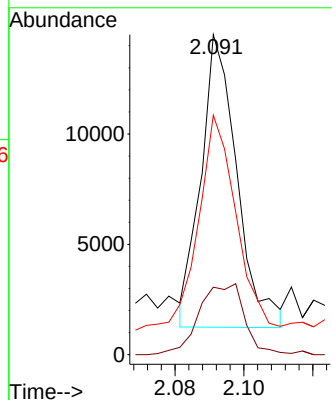
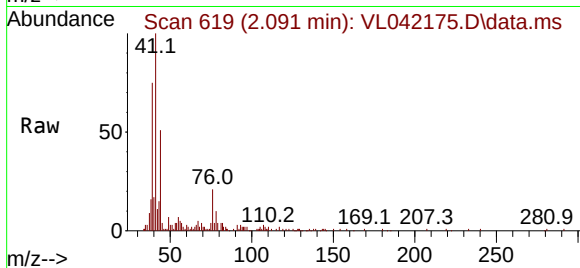




#21
 Allyl Chloride
 Concen: 0.541 ppbv
 RT: 2.091 min Scan# 619
 Delta R.T. -0.000 min
 Lab File: VL042175.D
 Acq: 27 Mar 2025 10:01

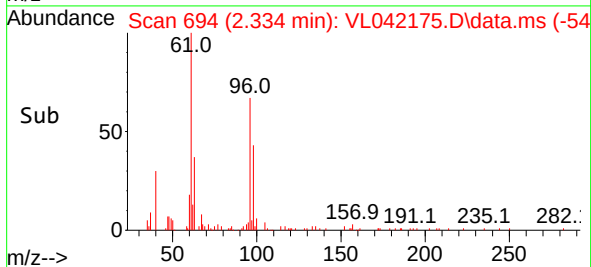
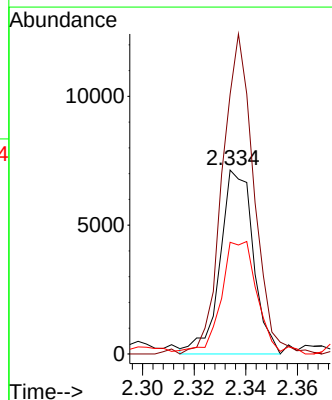
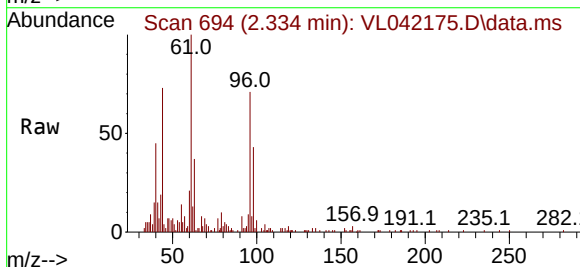
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

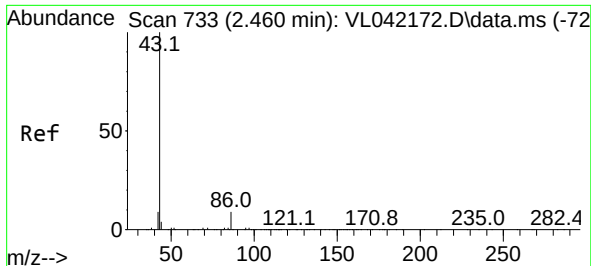
Tgt Ion: 41 Resp: 9632
 Ion Ratio Lower Upper
 41 100
 76 30.9 24.1 36.1
 39 88.9 61.1 91.7



#22
 trans-1,2-Dichloroethene
 Concen: 0.546 ppbv
 RT: 2.334 min Scan# 694
 Delta R.T. -0.003 min
 Lab File: VL042175.D
 Acq: 27 Mar 2025 10:01

Tgt Ion: 96 Resp: 6353
 Ion Ratio Lower Upper
 96 100
 61 141.3 136.6 204.8
 98 59.4 49.4 74.2

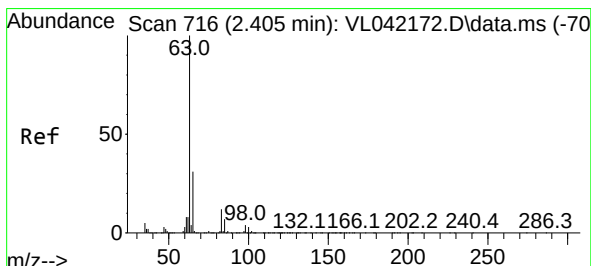
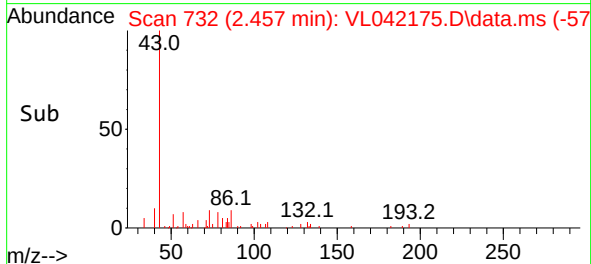
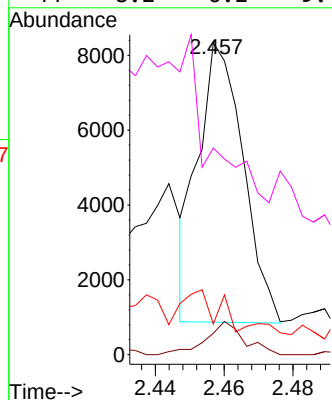
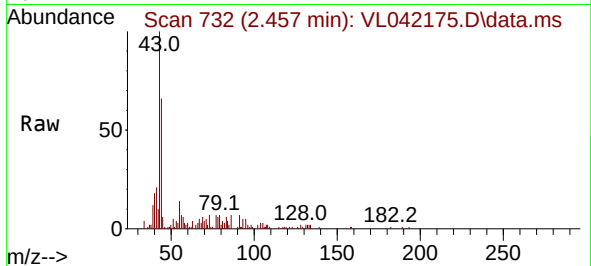




#23
Vinyl Acetate
Concen: 0.649 ppbv
RT: 2.457 min Scan# 716
Delta R.T. -0.003 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

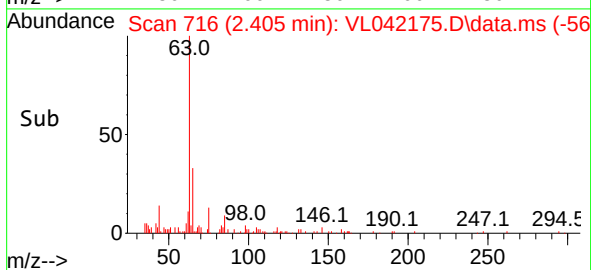
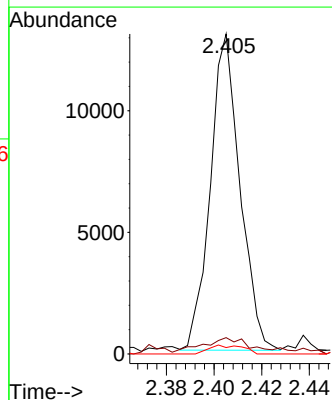
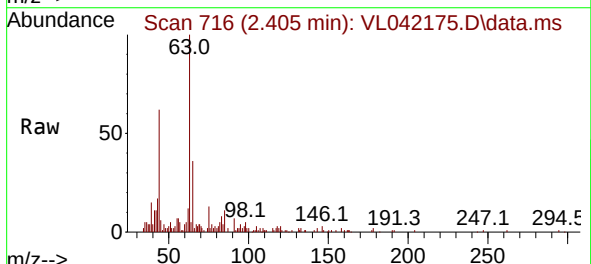
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.5

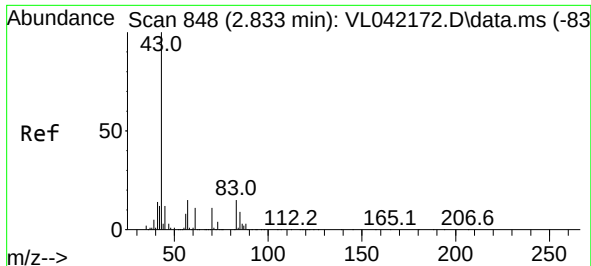
Tgt Ion:	43	Resp:	6809
Ion	Ratio	Lower	Upper
43	100		
86	7.7	5.5	8.3
42	3.2	8.6	13.0#
44	8.2	6.2	9.4



#24
1,1-Dichloroethane
Concen: 0.527 ppbv
RT: 2.405 min Scan# 716
Delta R.T. -0.000 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

Tgt Ion:	63	Resp:	11258
Ion	Ratio	Lower	Upper
63	100		
98	3.7	2.3	6.8
100	2.0	1.6	4.7

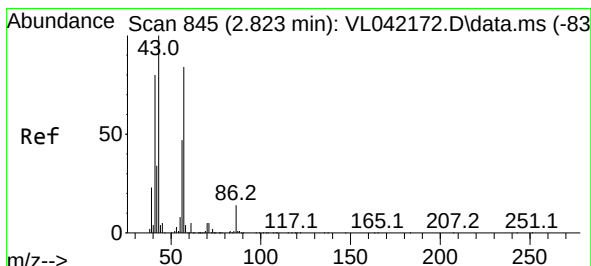
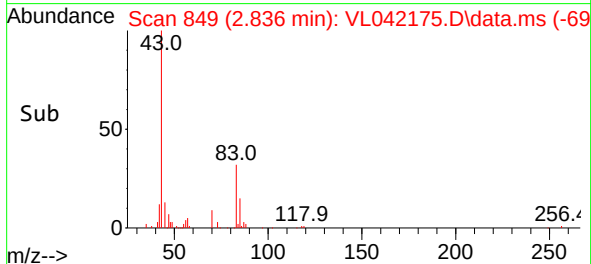
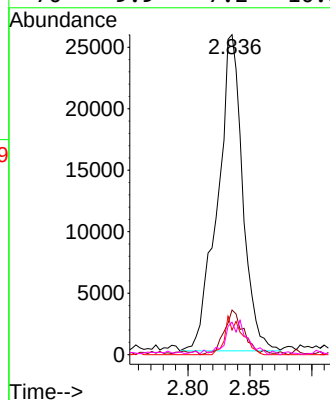
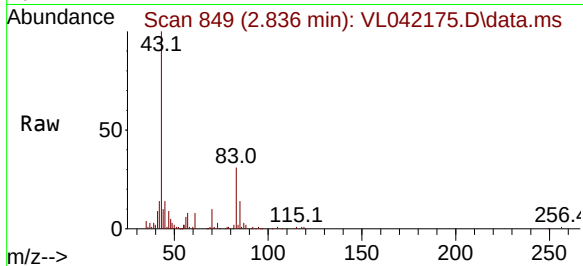




#25
Ethyl Acetate
Concen: 0.553 ppbv
RT: 2.836 min Scan# 848
Delta R.T. 0.003 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

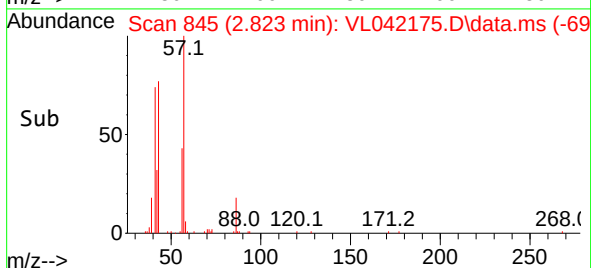
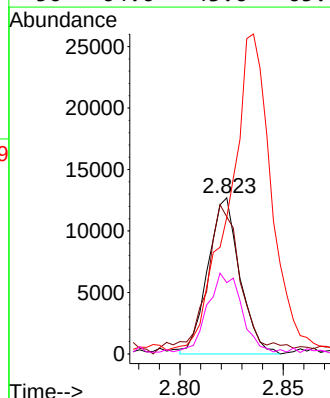
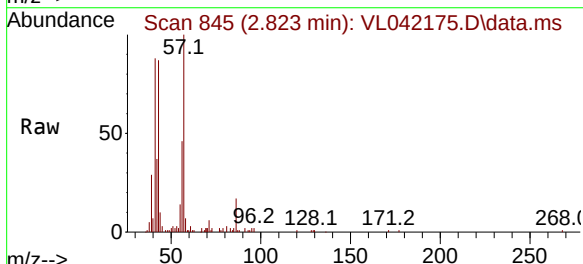
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.5

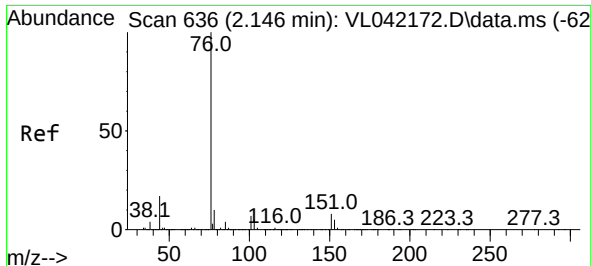
Tgt Ion: 43	Resp: 36258
Ion Ratio	Lower Upper
43 100	
45 11.2	8.2 12.2
61 8.3	7.3 10.9
70 9.9	7.2 10.8



#26
Hexane
Concen: 0.538 ppbv
RT: 2.823 min Scan# 845
Delta R.T. -0.000 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

Tgt Ion: 57	Resp: 13605		
Ion	Ratio	Lower	Upper
57	100		
41	92.1	76.6	114.8
43	273.4	207.8	311.8
56	64.6	43.6	65.4

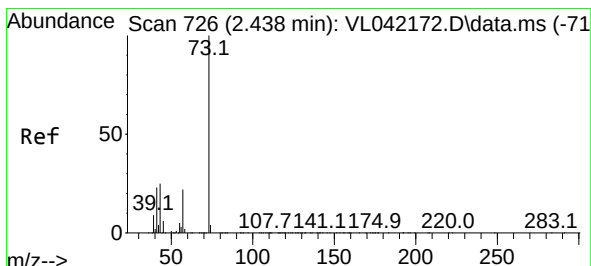
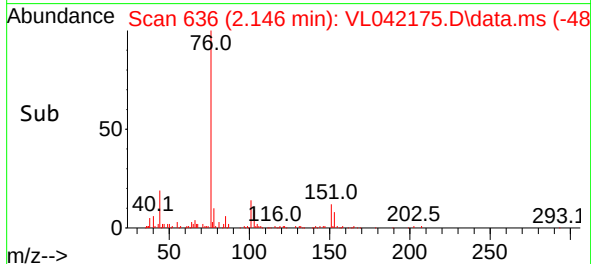
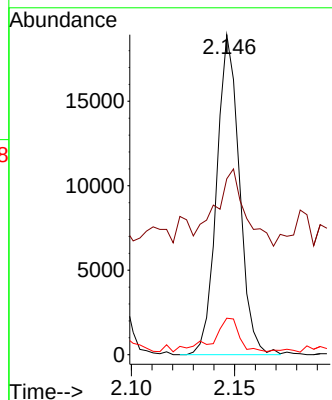
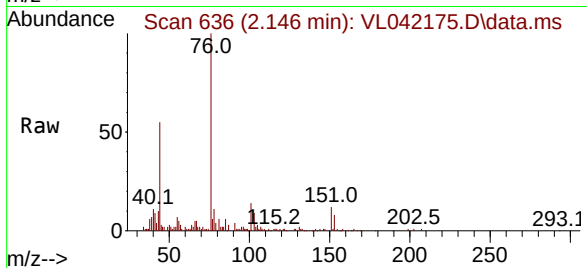




#27
Carbon Disulfide
Concen: 0.535 ppbv
RT: 2.146 min Scan# 61
Delta R.T. -0.000 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

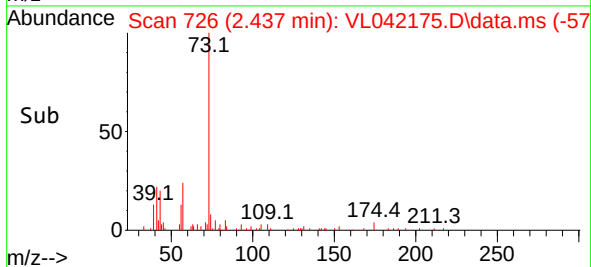
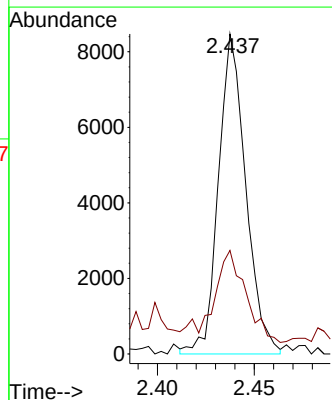
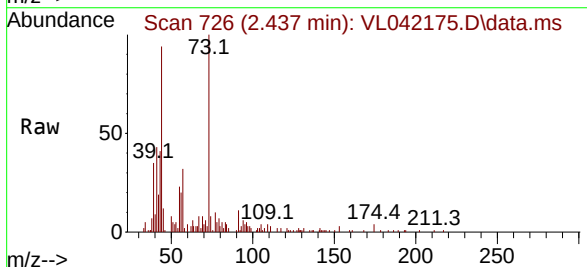
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.5

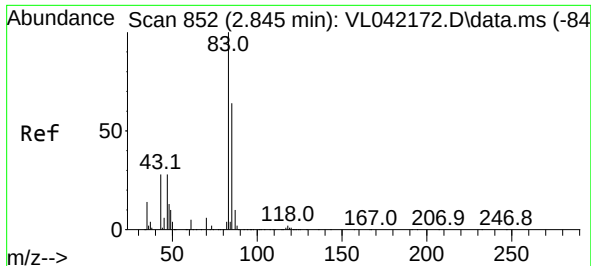
Tgt Ion: 76 Resp: 14510
Ion Ratio Lower Upper
76 100
44 115.5 14.7 22.1#
78 14.9 9.3 13.9#



#28
Methyl tert-Butyl Ether
Concen: 0.527 ppbv
RT: 2.437 min Scan# 726
Delta R.T. -0.000 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

Tgt Ion: 73 Resp: 8310
Ion Ratio Lower Upper
73 100
57 31.1 20.5 30.7#





#29

Chloroform

Concen: 0.544 ppbv

RT: 2.845 min Scan# 852

Delta R.T. -0.000 min

Lab File: VL042175.D

Acq: 27 Mar 2025 10:01

Instrument :

MSVOA_L

ClientSampleId :

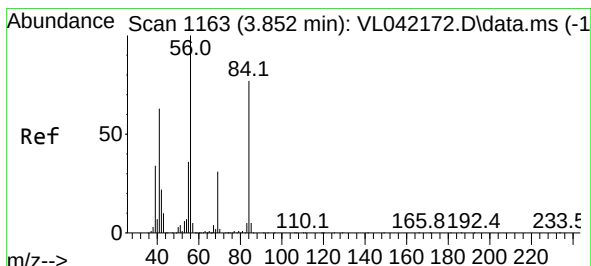
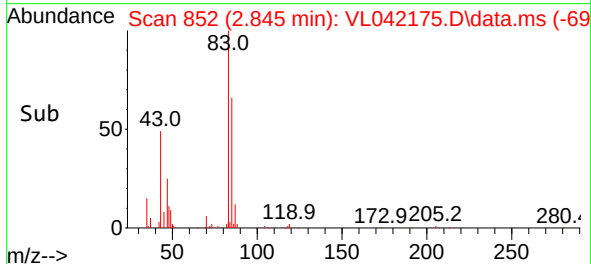
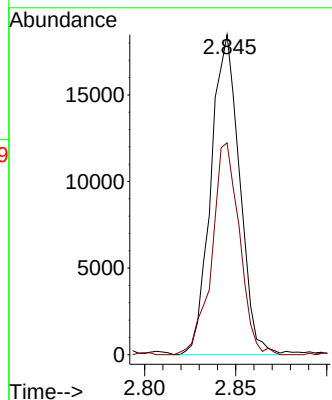
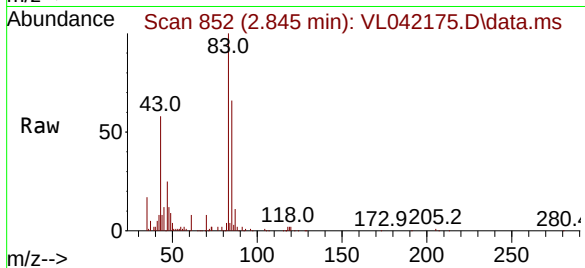
VSTDIC0.5

Tgt Ion: 83 Resp: 20149

Ion Ratio Lower Upper

83 100

85 66.2 51.4 77.2



#30

Cyclohexane

Concen: 0.438 ppbv

RT: 3.852 min Scan# 1163

Delta R.T. -0.000 min

Lab File: VL042175.D

Acq: 27 Mar 2025 10:01

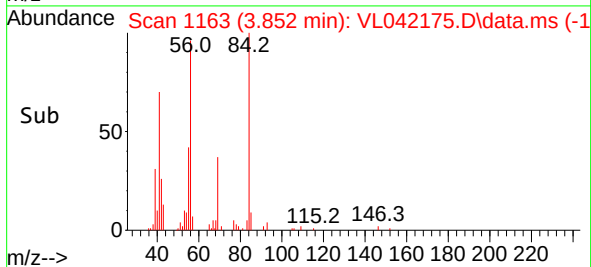
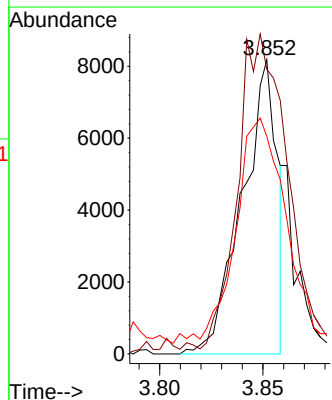
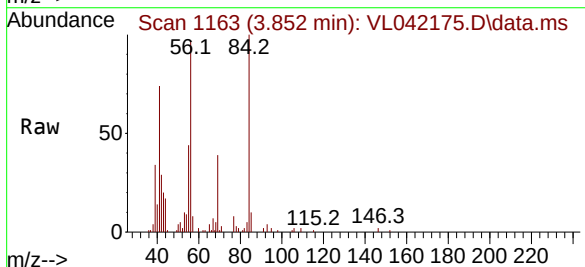
Tgt Ion: 84 Resp: 9635

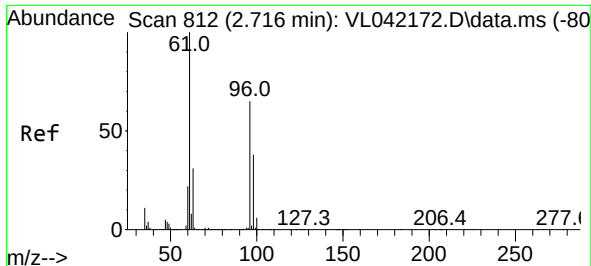
Ion Ratio Lower Upper

84 100

56 158.1 102.8 154.2#

41 117.1 66.5 99.7#

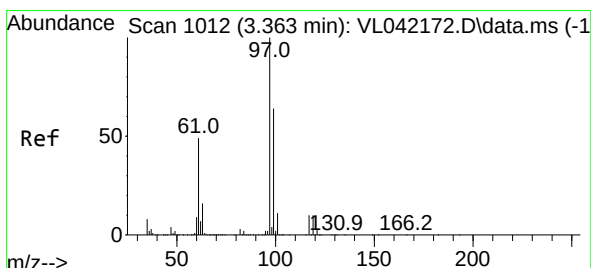
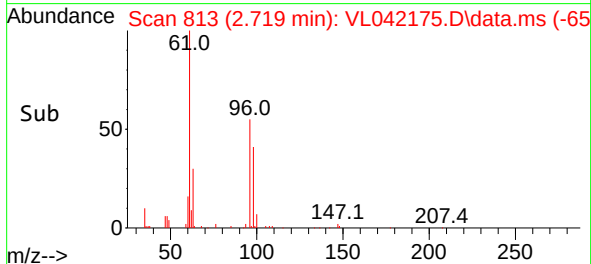
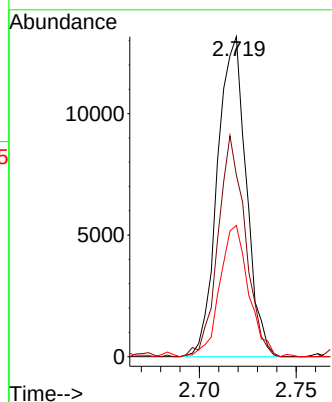
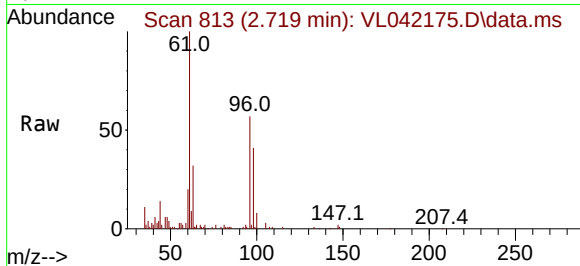




#31
 cis-1,2-Dichloroethene
 Concen: 0.529 ppbv
 RT: 2.719 min Scan# 81
 Delta R.T. 0.003 min
 Lab File: VL042175.D
 Acq: 27 Mar 2025 10:01

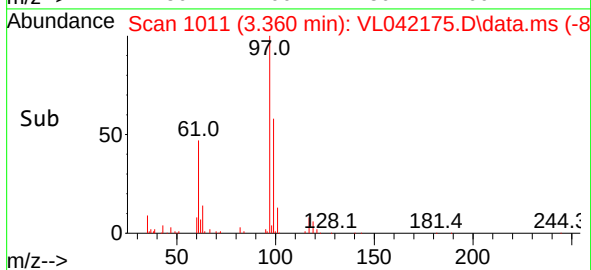
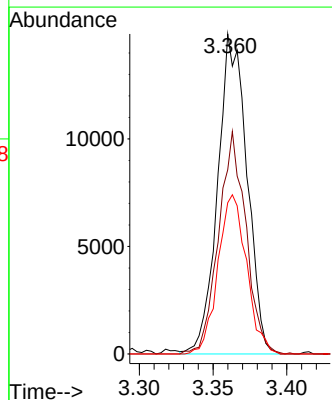
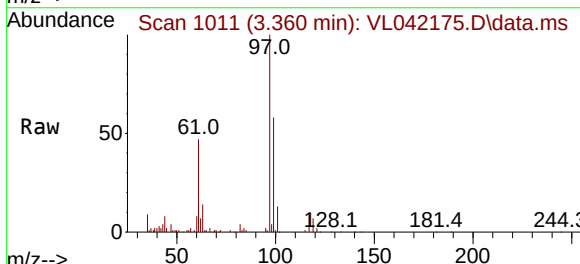
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC0.5

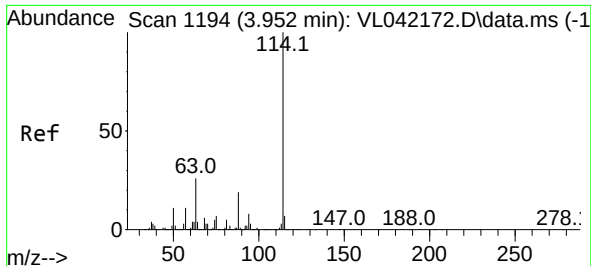
Tgt Ion: 61 Resp: 13601
 Ion Ratio Lower Upper
 61 100
 96 56.8 51.8 77.8
 98 41.0 30.6 46.0



#32
 1,1,1-Trichloroethane
 Concen: 0.485 ppbv
 RT: 3.360 min Scan# 1011
 Delta R.T. -0.003 min
 Lab File: VL042175.D
 Acq: 27 Mar 2025 10:01

Tgt Ion: 97 Resp: 20567
 Ion Ratio Lower Upper
 97 100
 99 64.8 51.5 77.3
 61 48.6 38.7 58.1





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.952 min Scan# 1194

Delta R.T. -0.000 min

Lab File: VL042175.D

Acq: 27 Mar 2025 10:01

Instrument :

MSVOA_1

ClientSampleId :

VSTDICC0.5

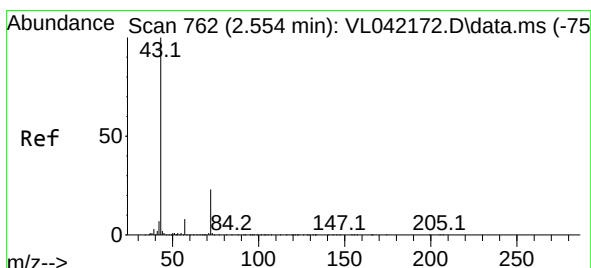
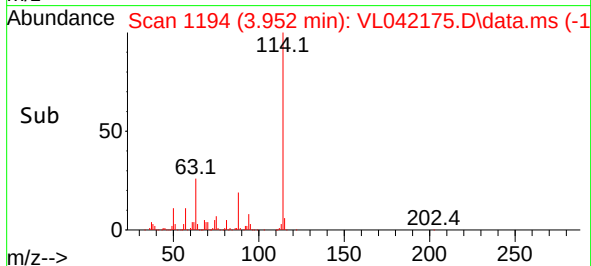
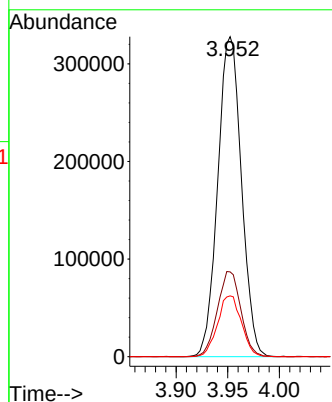
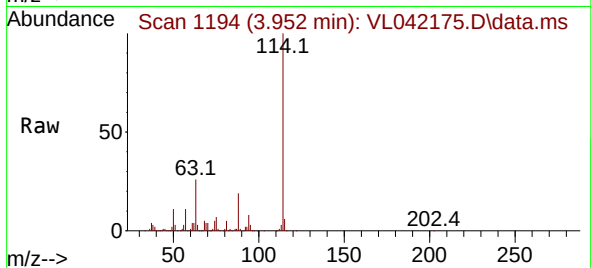
Tgt Ion:114 Resp: 523832

Ion Ratio Lower Upper

114 100

63 26.4 20.7 31.1

88 19.1 15.0 22.4



#34

2-Butanone

Concen: 0.520 ppbv

RT: 2.557 min Scan# 763

Delta R.T. 0.003 min

Lab File: VL042175.D

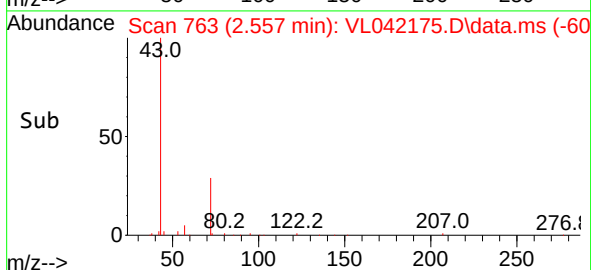
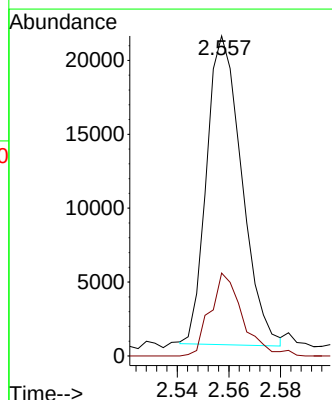
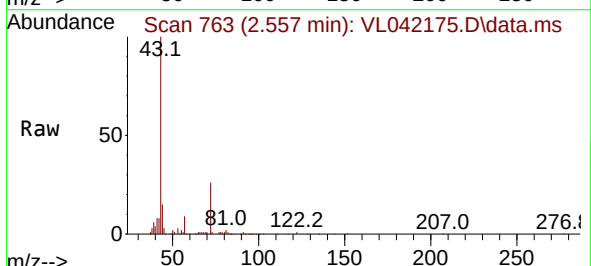
Acq: 27 Mar 2025 10:01

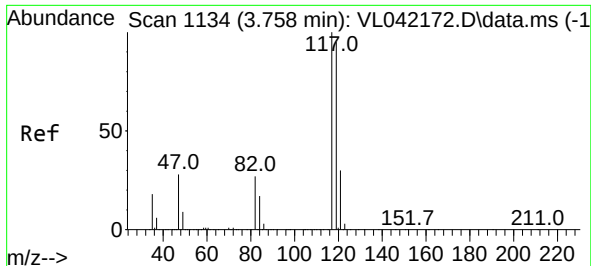
Tgt Ion: 43 Resp: 19739

Ion Ratio Lower Upper

43 100

72 24.8 18.2 27.2

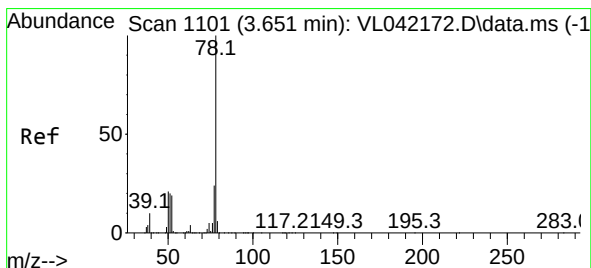
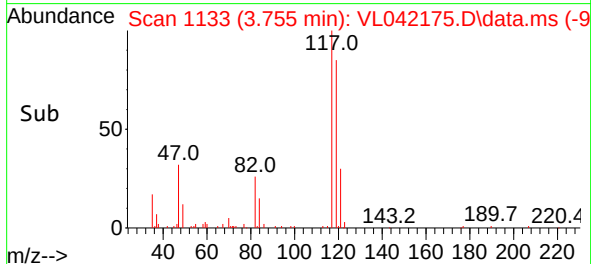
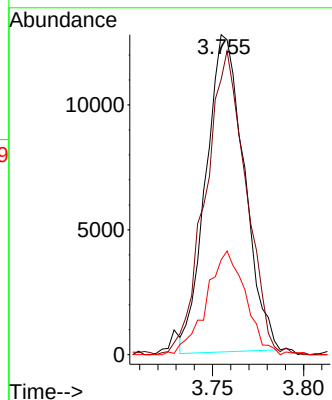
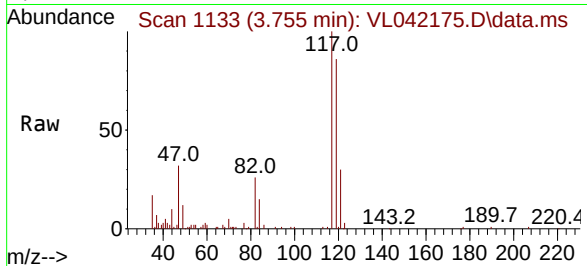




#35
Carbon Tetrachloride
Concen: 0.460 ppbv
RT: 3.755 min Scan# 1133
Delta R.T. -0.003 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

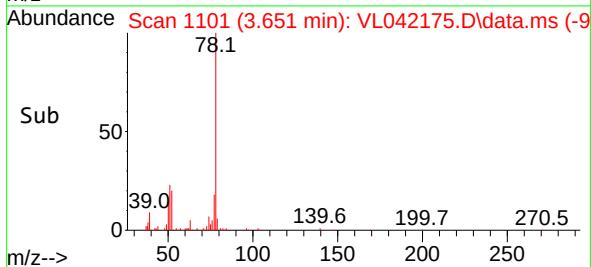
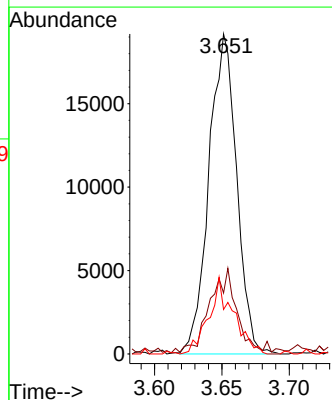
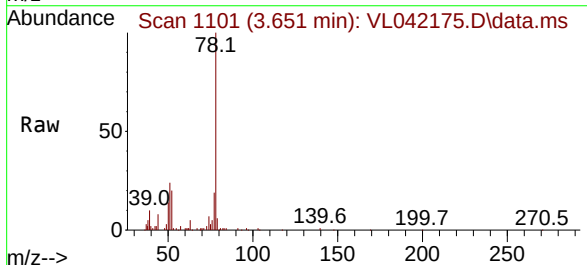
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

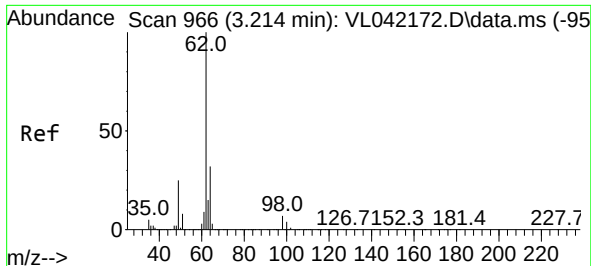
Tgt Ion:117 Resp: 18558
Ion Ratio Lower Upper
117 100
119 86.4 76.2 114.2
121 30.1 24.2 36.4



#36
Benzene
Concen: 0.529 ppbv
RT: 3.651 min Scan# 1101
Delta R.T. -0.000 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

Tgt Ion: 78 Resp: 27488
Ion Ratio Lower Upper
78 100
77 18.5 19.1 28.7#
50 13.9 16.6 24.8#

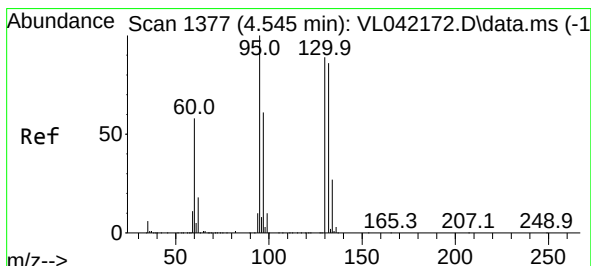
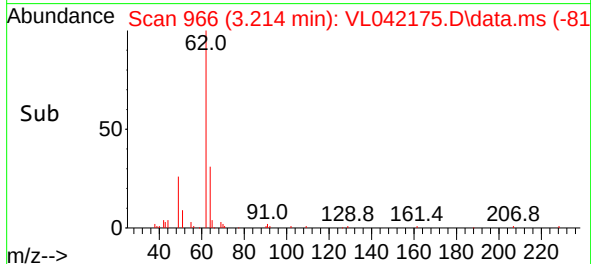
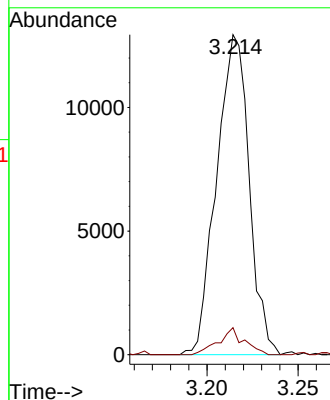
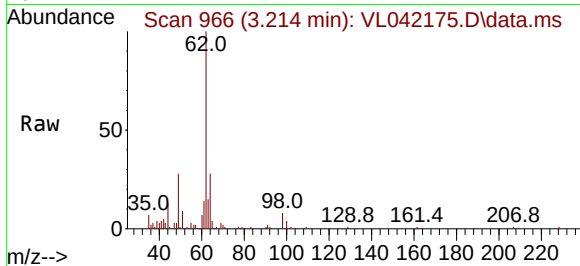




#37
1,2-Dichloroethane
Concen: 0.540 ppbv
RT: 3.214 min Scan# 966
Delta R.T. -0.000 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

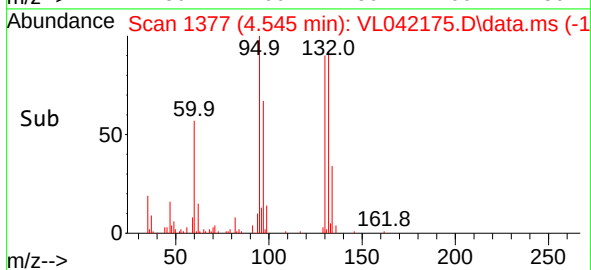
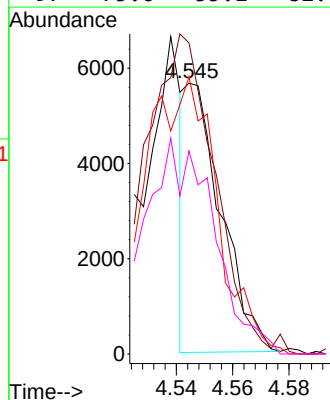
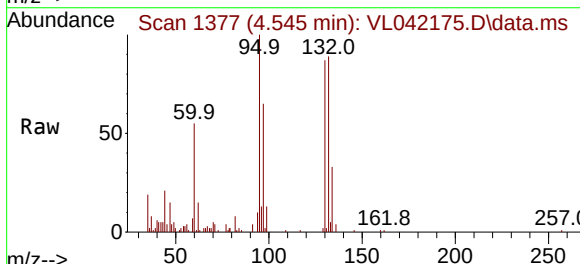
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

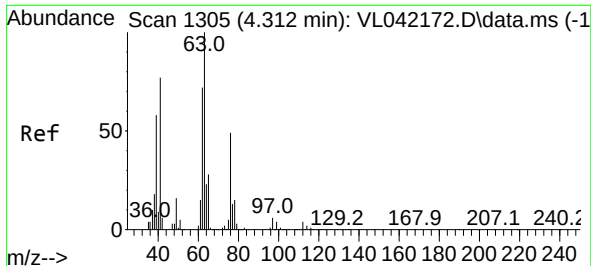
Tgt Ion: 62 Resp: 16062
Ion Ratio Lower Upper
62 100
98 7.0 5.4 8.2



#38
Trichloroethene
Concen: 0.230 ppbv
RT: 4.545 min Scan# 1377
Delta R.T. -0.000 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

Tgt Ion:130 Resp: 4992
Ion Ratio Lower Upper
130 100
95 108.5 89.8 134.8
132 100.9 77.4 116.2
97 75.6 55.1 82.7





#39

1,2-Dichloropropane

Concen: 0.535 ppbv

RT: 4.308 min Scan# 1

Delta R.T. -0.003 min

Lab File: VL042175.D

Acq: 27 Mar 2025 10:01

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC0.5

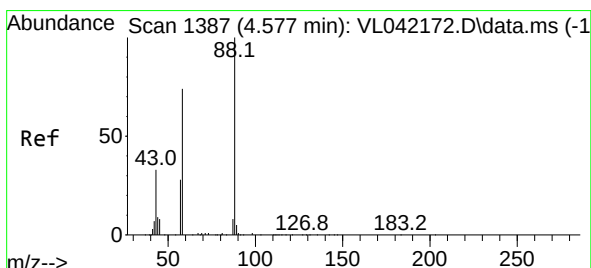
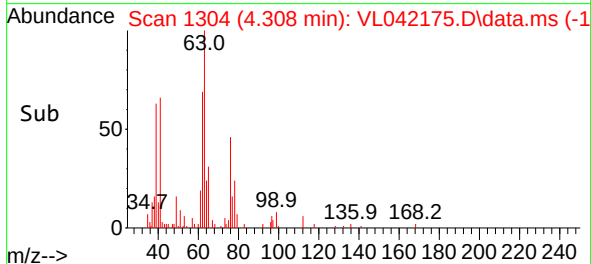
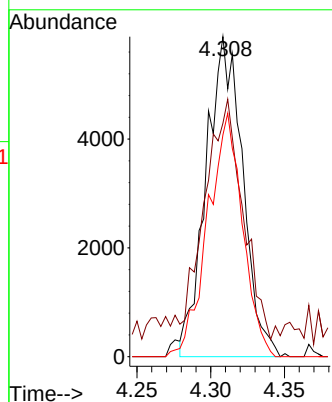
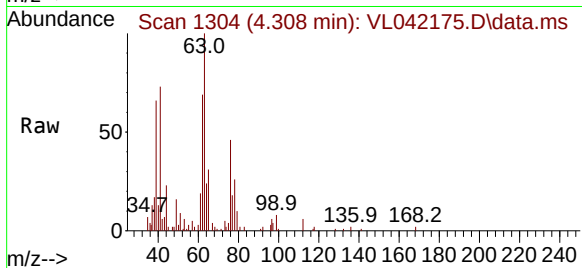
Tgt Ion: 63 Resp: 10123

Ion Ratio Lower Upper

63 100

41 66.4 61.7 92.5

62 69.3 57.6 86.4



#40

1,4-Dioxane

Concen: 0.457 ppbv

RT: 4.593 min Scan# 1392

Delta R.T. 0.016 min

Lab File: VL042175.D

Acq: 27 Mar 2025 10:01

Tgt Ion: 88 Resp: 4487

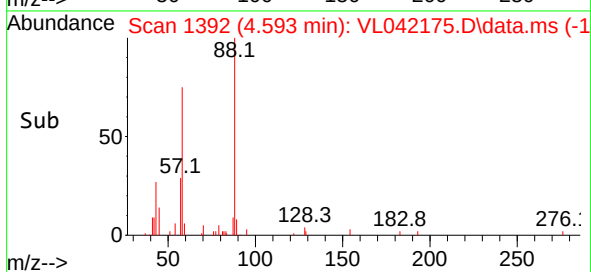
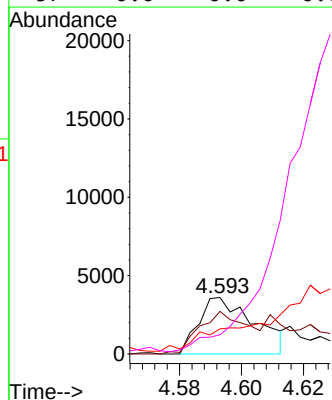
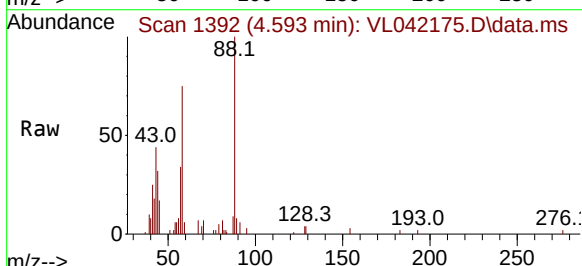
Ion Ratio Lower Upper

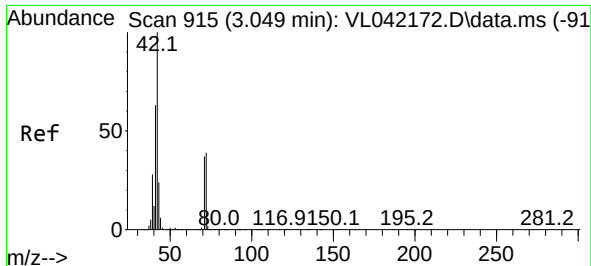
88 100

58 151.6 62.7 94.1#

43 0.0 23.0 34.4#

57 0.0 0.0 0.0

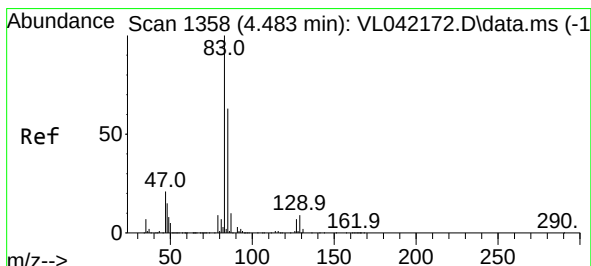
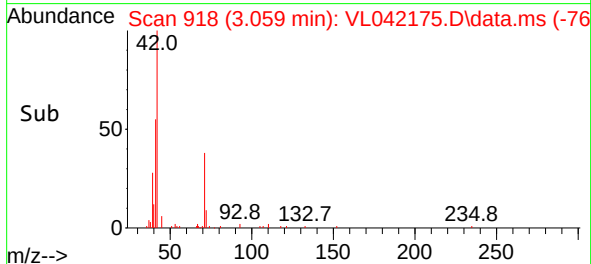
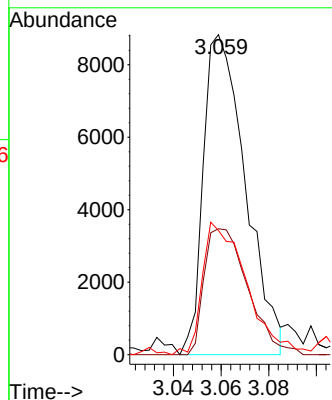
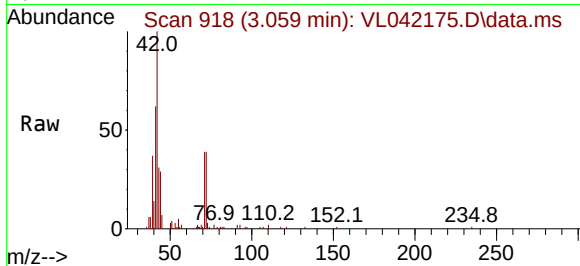




#41
Tetrahydrofuran
Concen: 0.502 ppbv
RT: 3.059 min Scan# 915
Delta R.T. 0.010 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

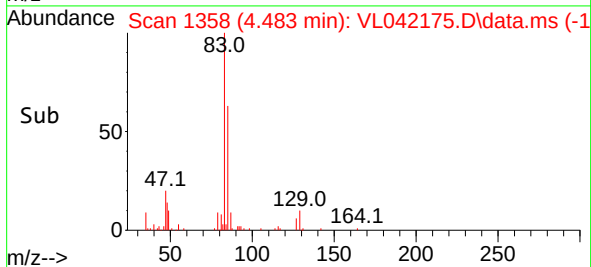
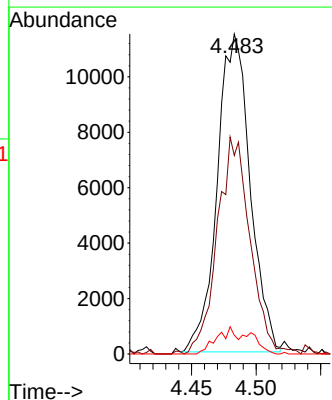
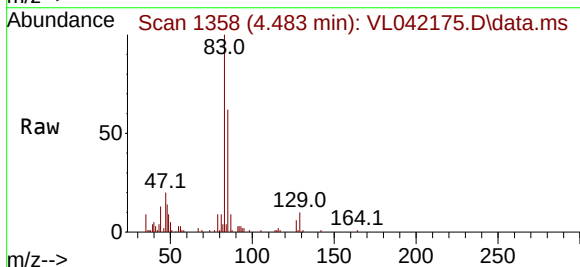
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

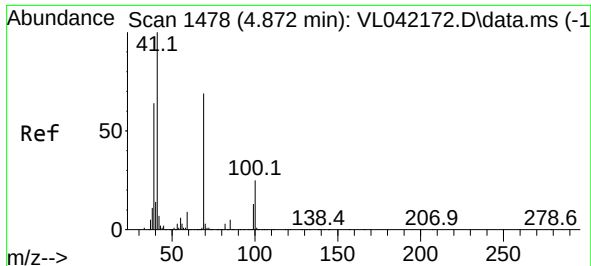
Tgt Ion: 42 Resp: 10856
Ion Ratio Lower Upper
42 100
72 40.7 31.4 47.0
71 43.1 30.2 45.4



#42
Bromodichloromethane
Concen: 0.497 ppbv
RT: 4.483 min Scan# 1358
Delta R.T. -0.000 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

Tgt Ion: 83 Resp: 20374
Ion Ratio Lower Upper
83 100
85 61.6 50.5 75.7
127 5.9 5.9 8.9

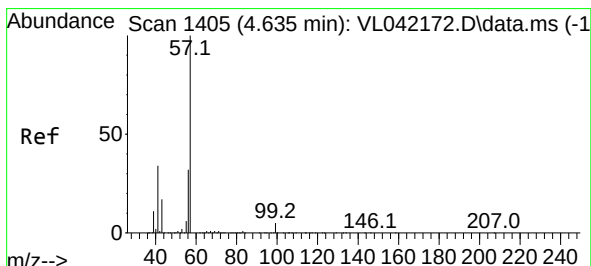
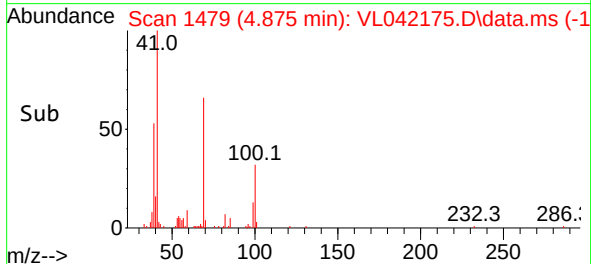
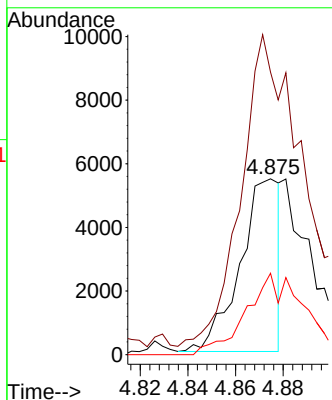
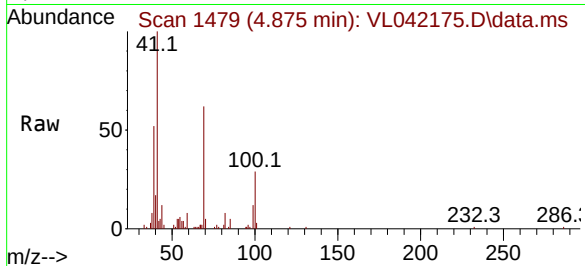




#43
Methyl Methacrylate
Concen: 0.284 ppbv
RT: 4.875 min Scan# 1478
Delta R.T. 0.003 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

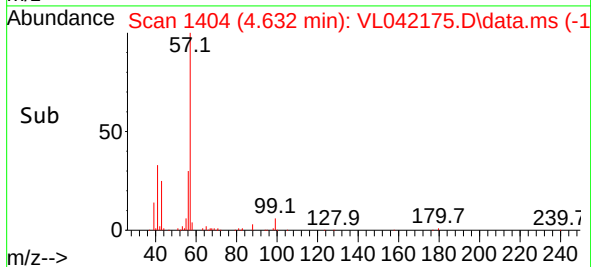
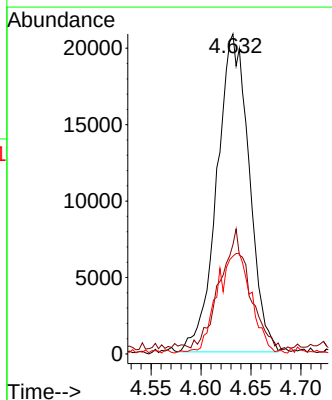
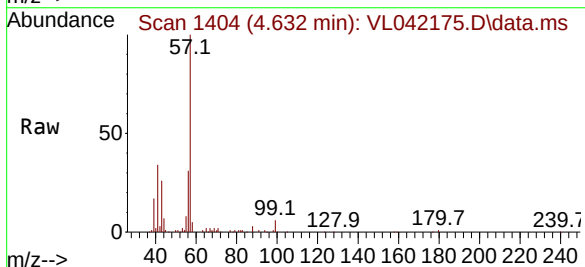
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.5

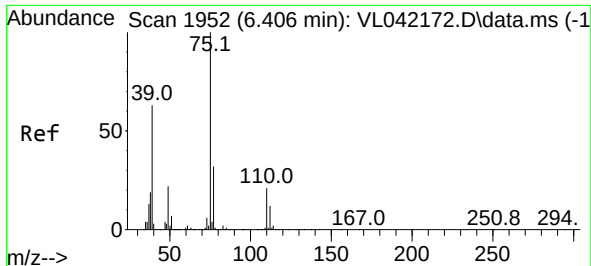
Tgt Ion: 69 Resp: 6229
Ion Ratio Lower Upper
69 100
41 279.4 123.8 185.6#
100 70.5 28.4 42.6#



#44
2,2,4-Trimethylpentane
Concen: 0.532 ppbv
RT: 4.632 min Scan# 1404
Delta R.T. -0.003 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

Tgt Ion: 57 Resp: 46646
Ion Ratio Lower Upper
57 100
41 36.7 26.8 40.2
56 34.3 25.6 38.4





#45

t-1,3-Dichloropropene

Concen: 0.526 ppbv

RT: 6.406 min Scan# 1952

Delta R.T. -0.000 min

Lab File: VL042175.D

Acq: 27 Mar 2025 10:01

Instrument :

MSVOA_L

ClientSampleId :

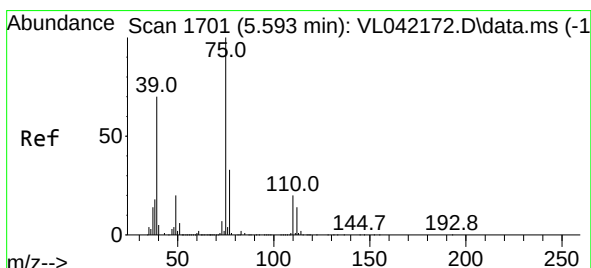
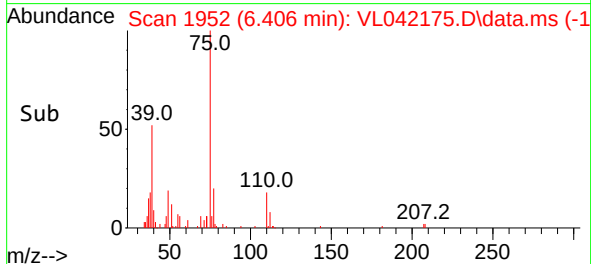
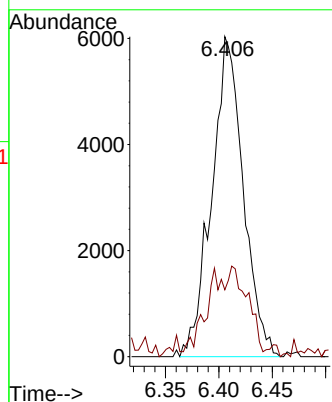
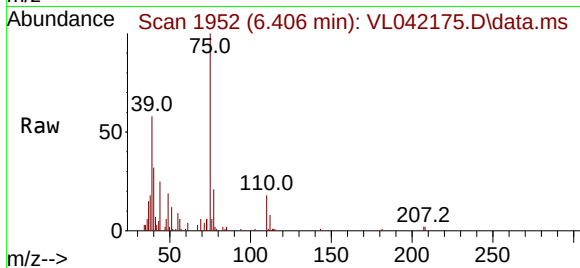
VSTDICC0.5

Tgt Ion: 75 Resp: 12404

Ion Ratio Lower Upper

75 100

77 20.9 26.0 39.0#



#46

cis-1,3-Dichloropropene

Concen: 0.297 ppbv

RT: 5.593 min Scan# 1701

Delta R.T. -0.000 min

Lab File: VL042175.D

Acq: 27 Mar 2025 10:01

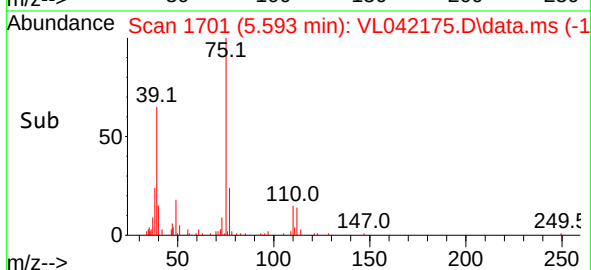
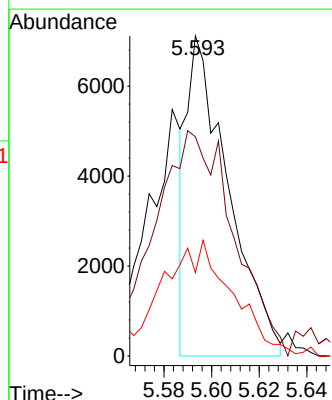
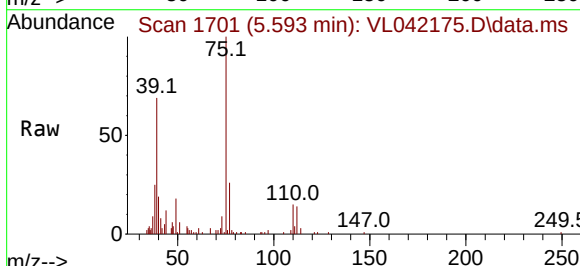
Tgt Ion: 75 Resp: 8584

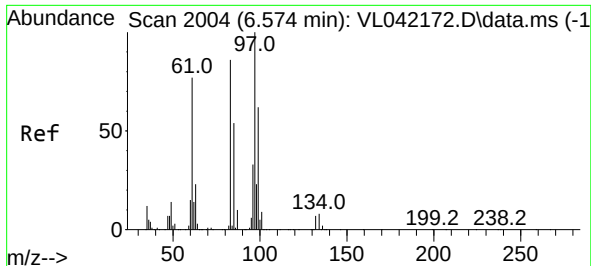
Ion Ratio Lower Upper

75 100

39 65.0 55.8 83.6

77 23.4 26.0 39.0#





#47

1,1,2-Trichloroethane

Concen: 0.419 ppbv

RT: 6.574 min Scan# 2004

Delta R.T. -0.000 min

Lab File: VL042175.D

Acq: 27 Mar 2025 10:01

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tgt Ion: 97 Resp: 8374

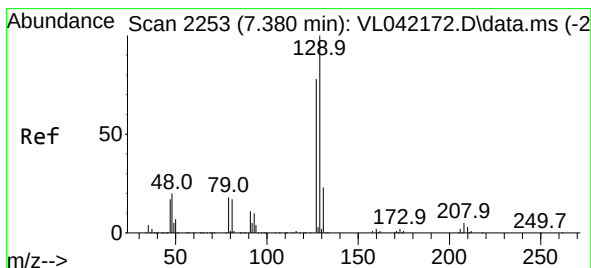
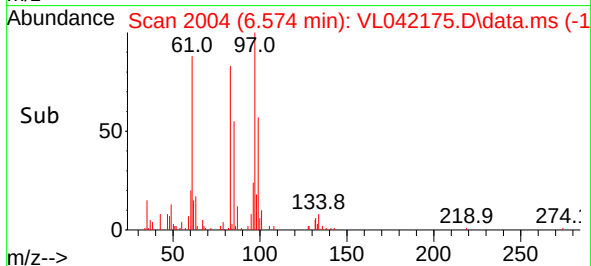
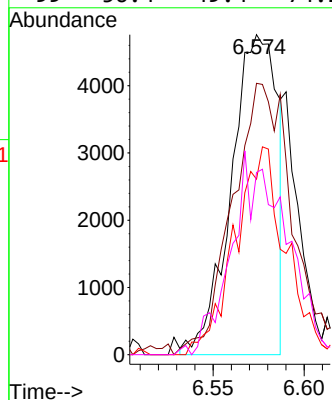
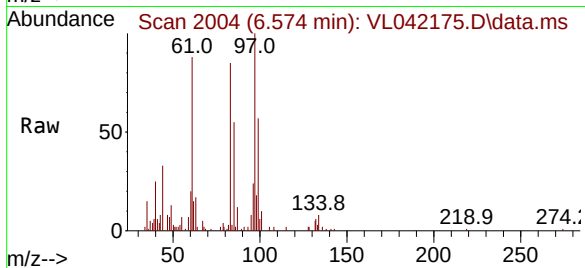
Ion Ratio Lower Upper

97 100

83 84.5 69.2 103.8

85 55.9 43.1 64.7

99 56.4 49.4 74.2



#48

Dibromochloromethane

Concen: 0.503 ppbv

RT: 7.380 min Scan# 2253

Delta R.T. -0.000 min

Lab File: VL042175.D

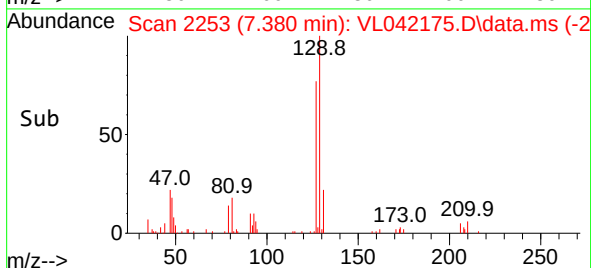
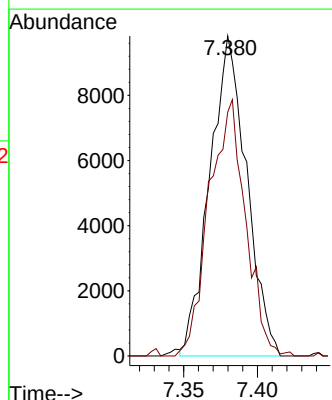
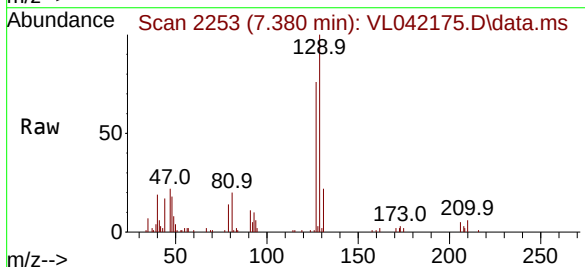
Acq: 27 Mar 2025 10:01

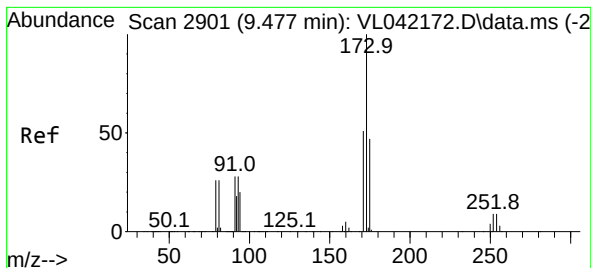
Tgt Ion: 129 Resp: 17042

Ion Ratio Lower Upper

129 100

127 79.4 39.1 117.2





#49

Bromoform

Concen: 0.487 ppbv

RT: 9.480 min Scan# 2901

Delta R.T. 0.003 min

Lab File: VL042175.D

Acq: 27 Mar 2025 10:01

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC0.5

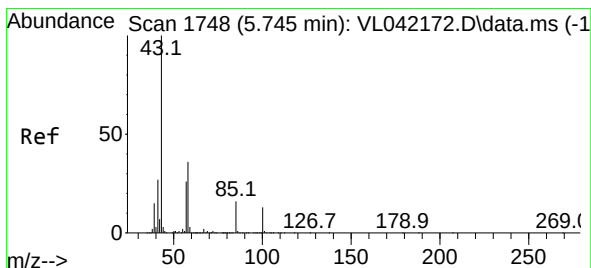
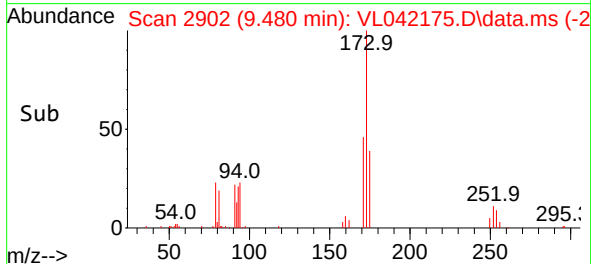
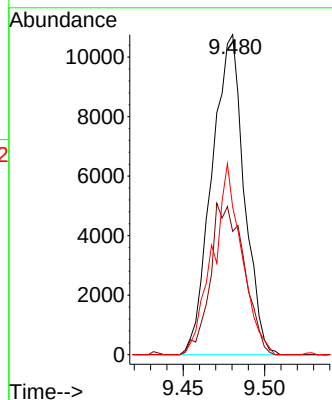
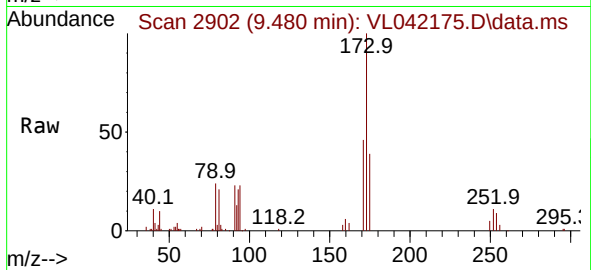
Tgt Ion:173 Resp: 14828

Ion Ratio Lower Upper

173 100

175 49.7 38.6 57.8

171 53.8 41.8 62.6



#50

4-Methyl-2-Pentanone

Concen: 0.559 ppbv

RT: 5.758 min Scan# 1752

Delta R.T. 0.013 min

Lab File: VL042175.D

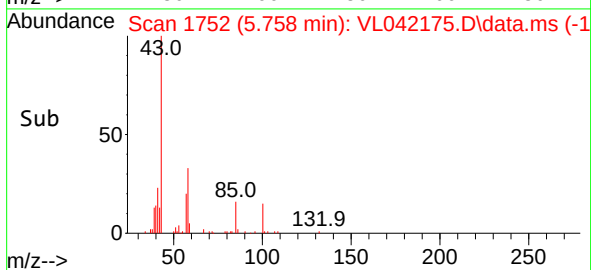
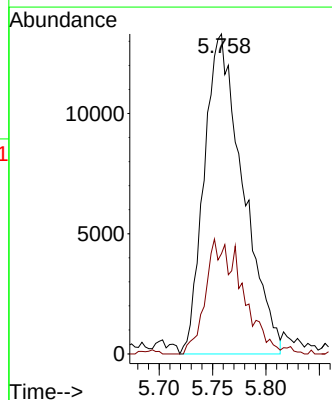
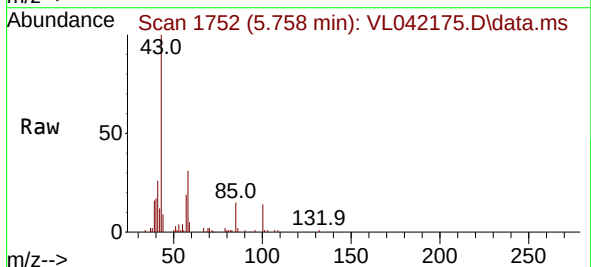
Acq: 27 Mar 2025 10:01

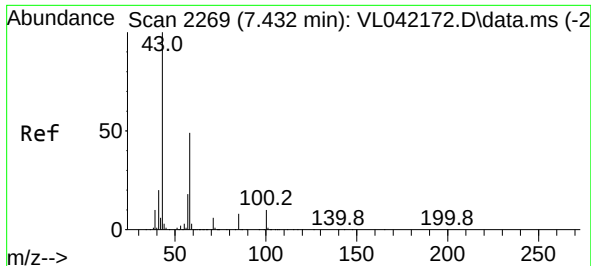
Tgt Ion: 43 Resp: 33674

Ion Ratio Lower Upper

43 100

58 34.4 29.0 43.6

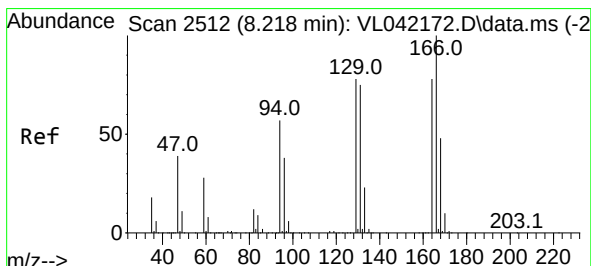
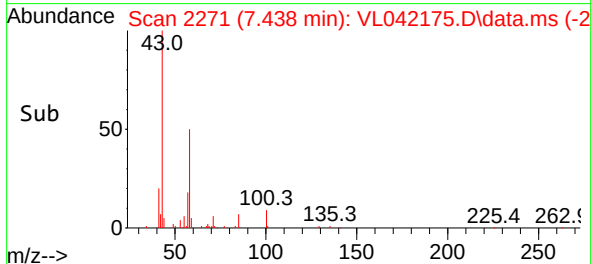
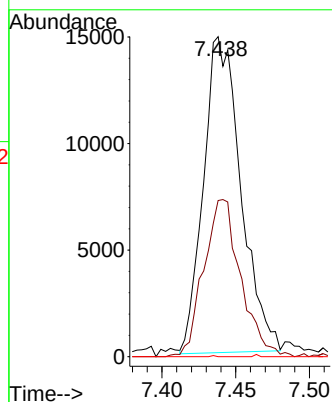
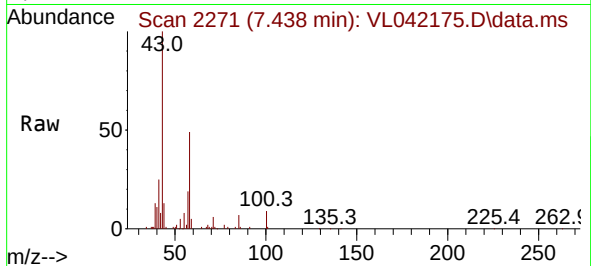




#51
2-Hexanone
Concen: 0.523 ppbv
RT: 7.438 min Scan# 21
Delta R.T. 0.006 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

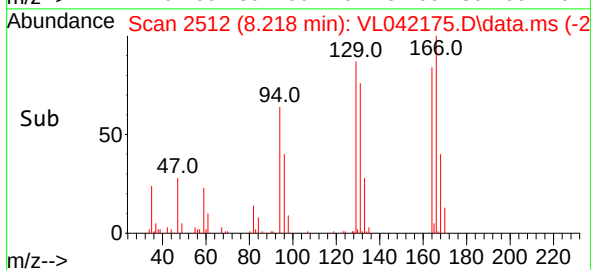
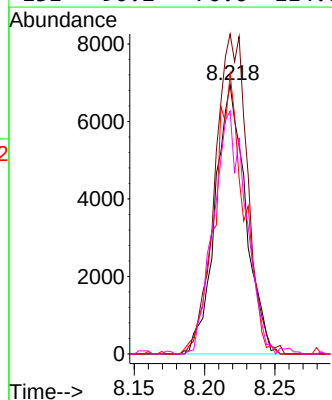
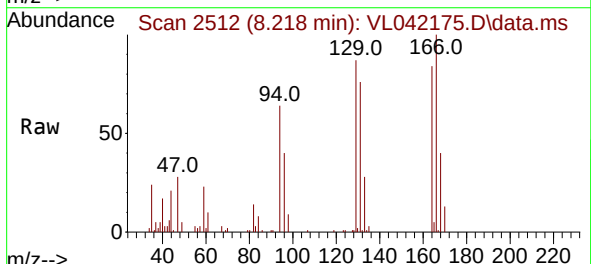
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

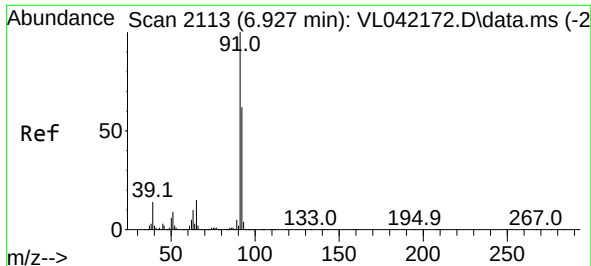
Tgt Ion: 43 Resp: 26154
Ion Ratio Lower Upper
43 100
58 49.8 39.7 59.5
98 0.0 0.1 0.1#



#52
Tetrachloroethene
Concen: 0.510 ppbv
RT: 8.218 min Scan# 2512
Delta R.T. -0.000 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

Tgt Ion: 164 Resp: 10502
Ion Ratio Lower Upper
164 100
166 118.9 102.5 153.7
129 103.8 79.8 119.8
131 90.2 76.6 114.8

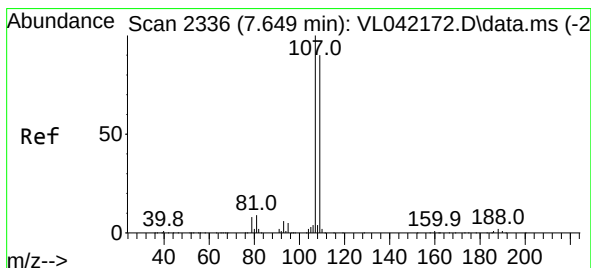
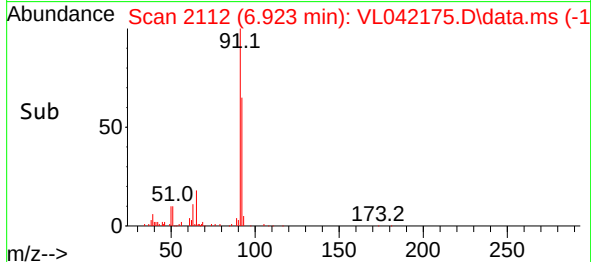
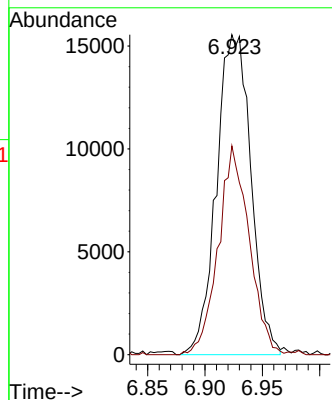
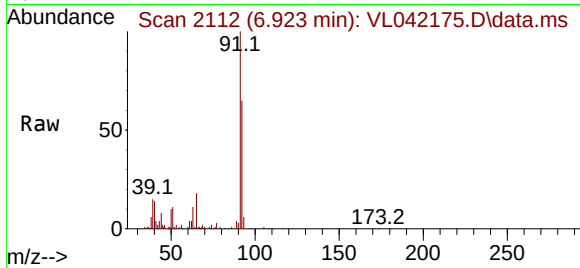




#53
Toluene
Concen: 0.527 ppbv
RT: 6.923 min Scan# 2112
Delta R.T. -0.003 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

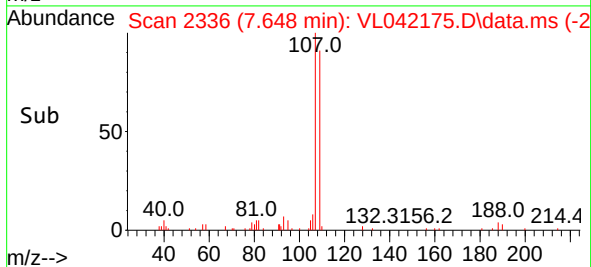
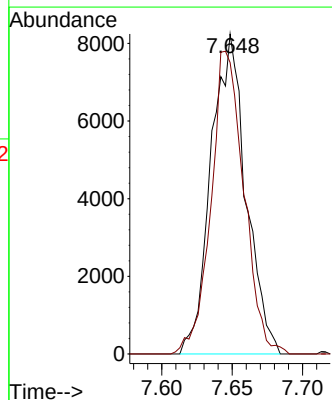
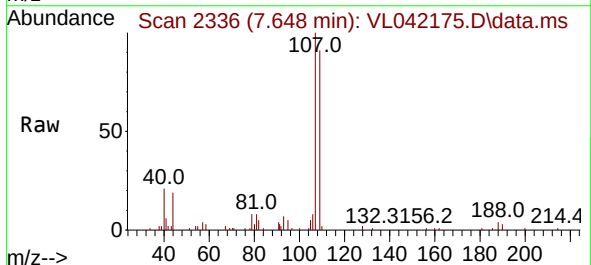
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

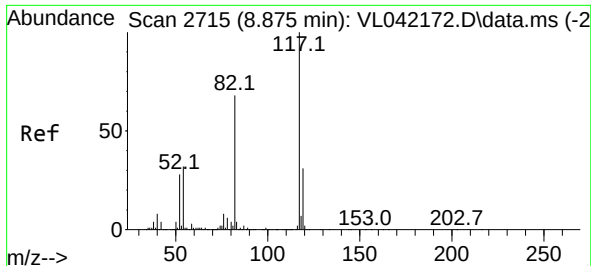
Tgt Ion: 91 Resp: 32444
Ion Ratio Lower Upper
91 100
92 58.9 48.4 72.6



#54
1,2-Dibromoethane
Concen: 0.510 ppbv
RT: 7.648 min Scan# 2336
Delta R.T. -0.000 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

Tgt Ion: 107 Resp: 14220
Ion Ratio Lower Upper
107 100
109 89.1 72.2 108.4

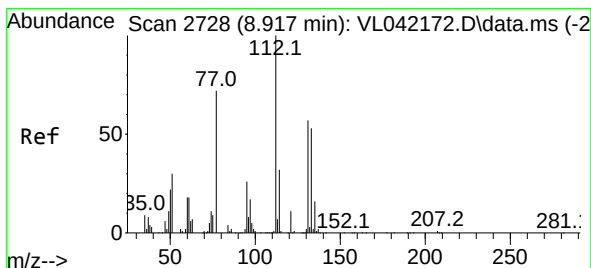
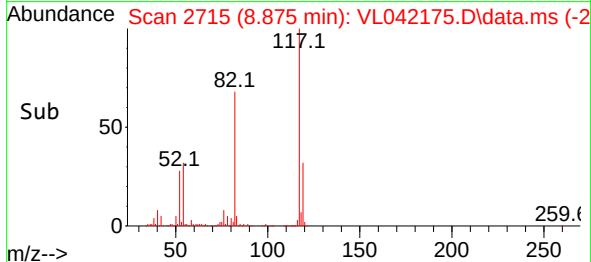
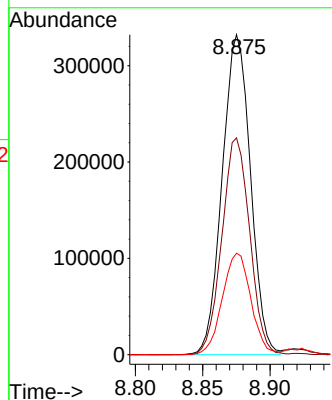
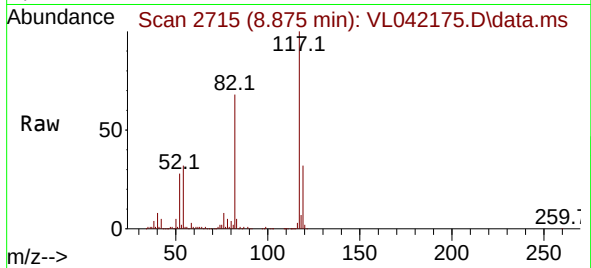




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.875 min Scan# 2715
Delta R.T. -0.000 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

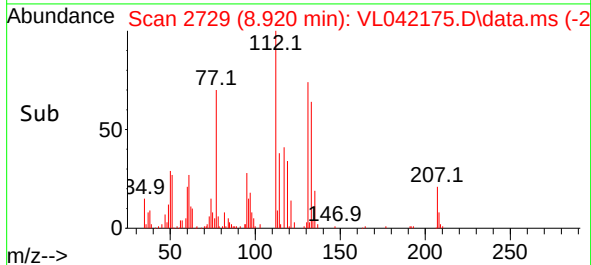
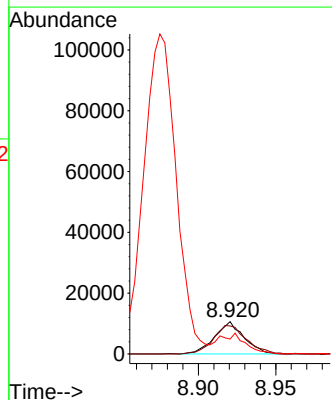
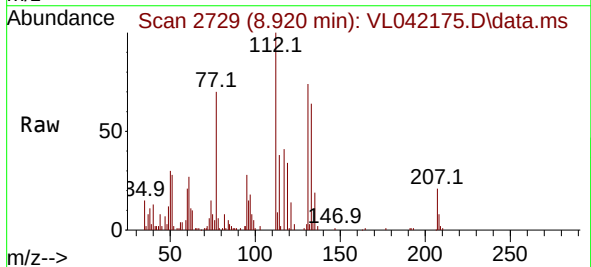
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.5

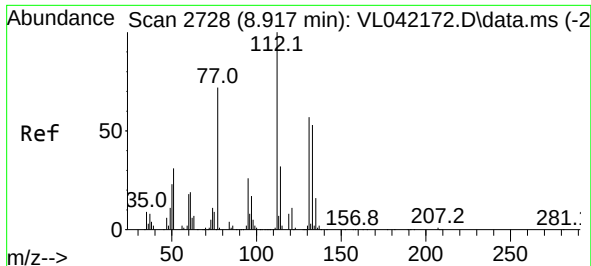
Tgt Ion:117 Resp: 485078
Ion Ratio Lower Upper
117 100
82 67.0 55.8 83.6
119 33.7 25.5 38.3



#56
1,1,1,2-Tetrachloroethane
Concen: 0.523 ppbv
RT: 8.920 min Scan# 2729
Delta R.T. 0.003 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

Tgt Ion:131 Resp: 13959
Ion Ratio Lower Upper
131 100
133 99.6 76.6 114.8
119 1170.3 49.8 74.6#

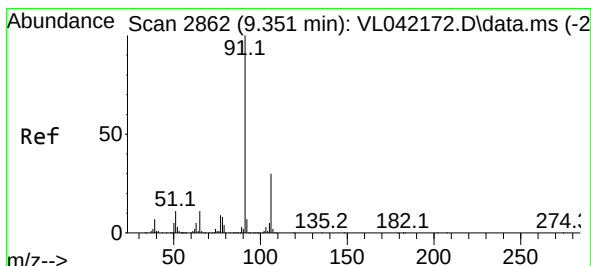
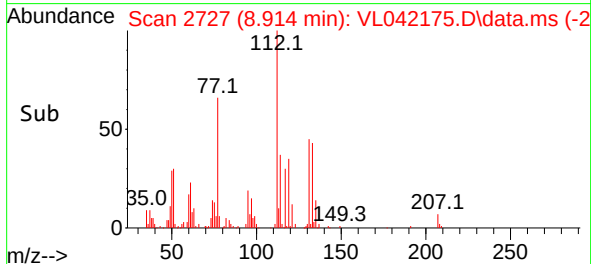
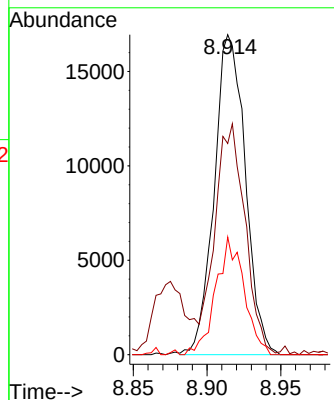
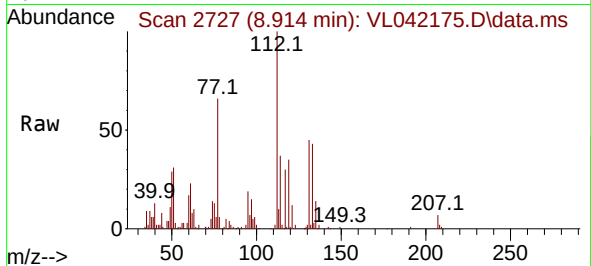




#57
Chlorobenzene
Concen: 0.540 ppbv
RT: 8.914 min Scan# 21
Delta R.T. -0.003 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

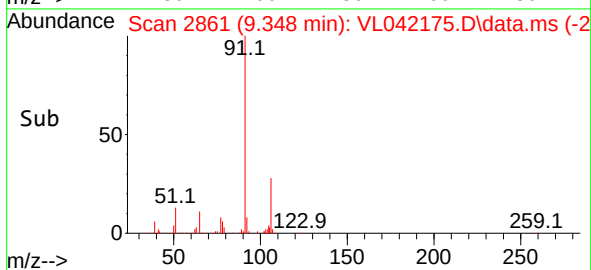
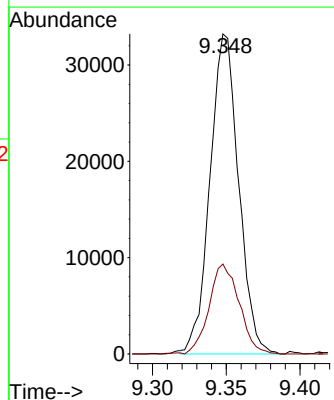
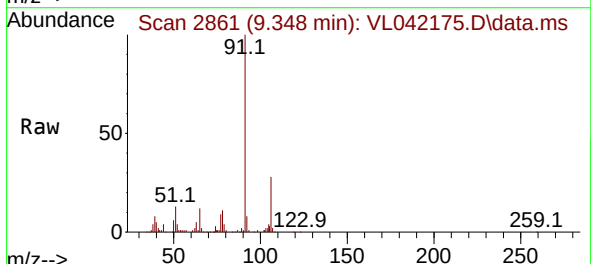
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.5

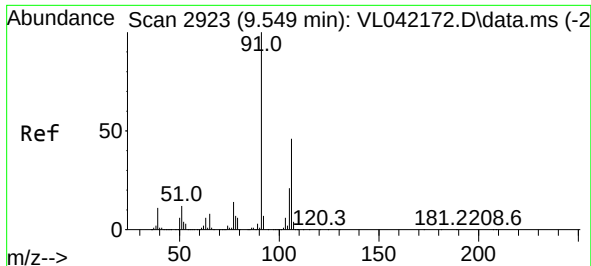
Tgt Ion:112 Resp: 24826
Ion Ratio Lower Upper
112 100
77 65.1 58.2 87.2
114 36.8 29.1 35.5#



#58
Ethyl Benzene
Concen: 0.521 ppbv
RT: 9.348 min Scan# 2861
Delta R.T. -0.003 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

Tgt Ion: 91 Resp: 44862
Ion Ratio Lower Upper
91 100
106 28.1 24.2 36.2





#59

m/p-Xylene

Concen: 0.272 ppbv

RT: 9.548 min Scan# 2923

Delta R.T. -0.000 min

Lab File: VL042175.D

Acq: 27 Mar 2025 10:01

Instrument :

MSVOA_L

ClientSampleId :

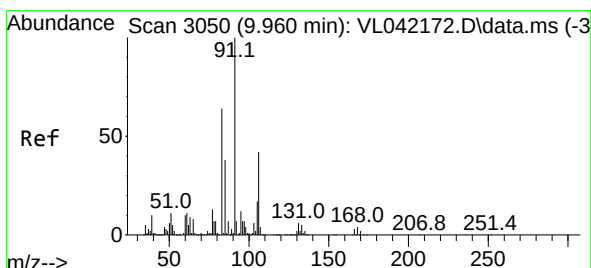
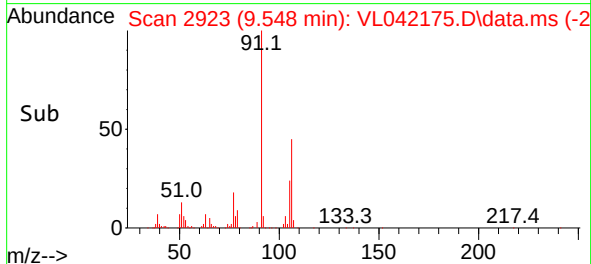
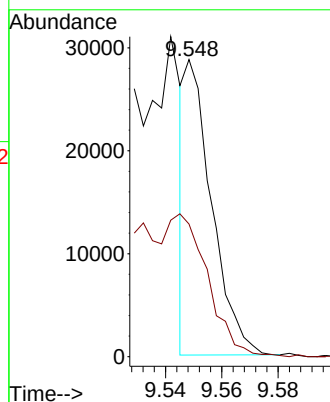
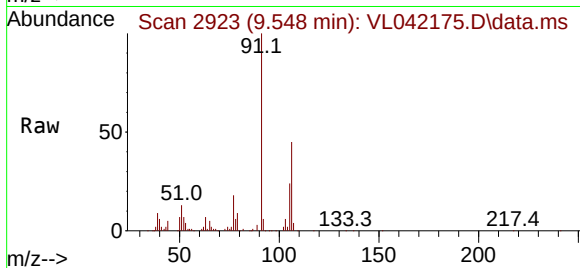
VSTDIC0.5

Tgt Ion: 91 Resp: 18711

Ion Ratio Lower Upper

91 100

106 176.2 36.4 54.6#



#60

o-Xylene

Concen: 0.535 ppbv

RT: 9.959 min Scan# 3050

Delta R.T. -0.000 min

Lab File: VL042175.D

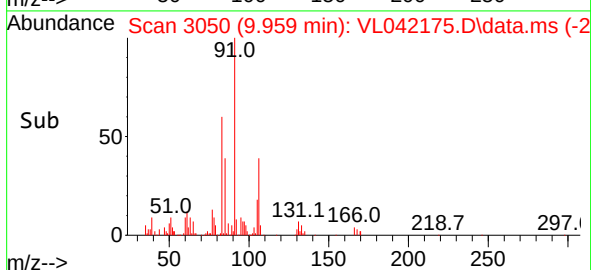
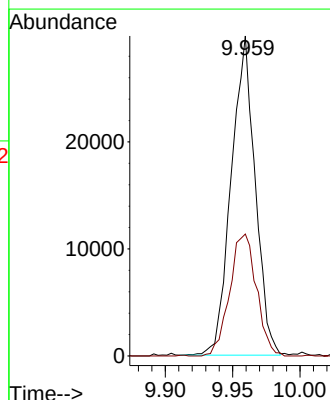
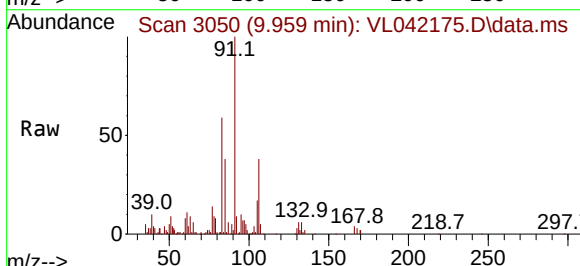
Acq: 27 Mar 2025 10:01

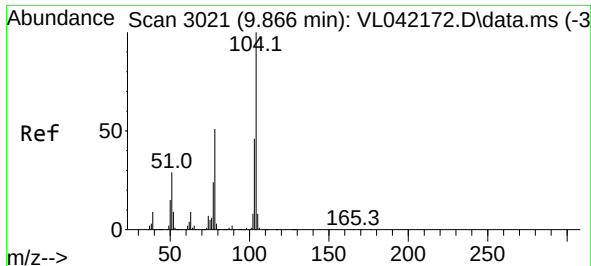
Tgt Ion: 91 Resp: 36879

Ion Ratio Lower Upper

91 100

106 42.7 20.8 62.5

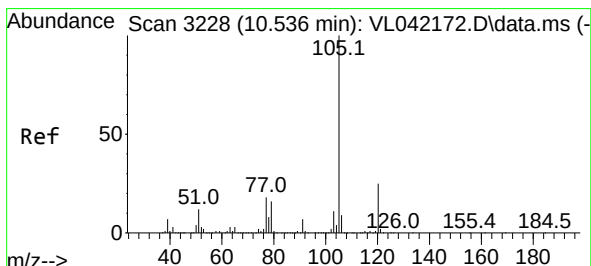
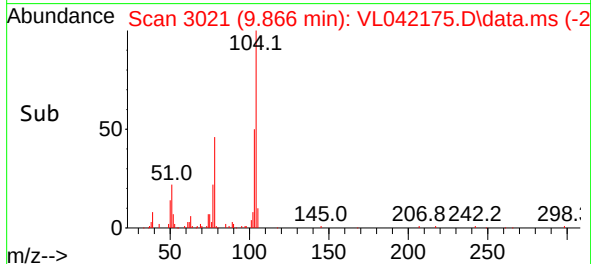
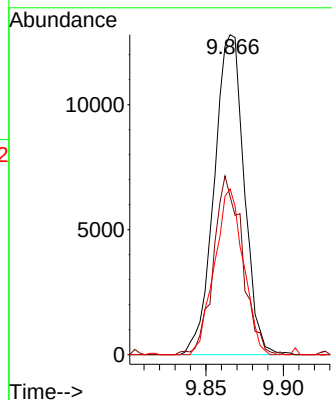
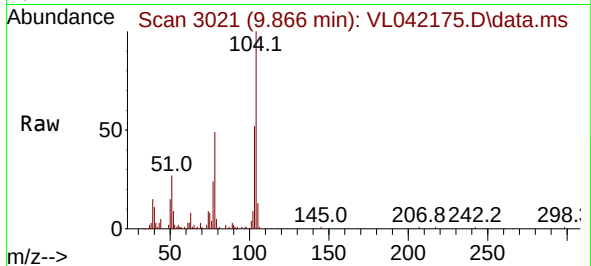




#61
Styrene
Concen: 0.504 ppbv
RT: 9.866 min Scan# 3021
Delta R.T. -0.000 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

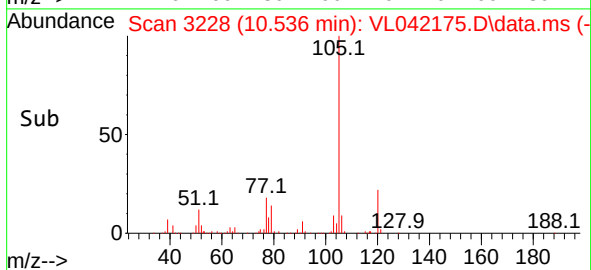
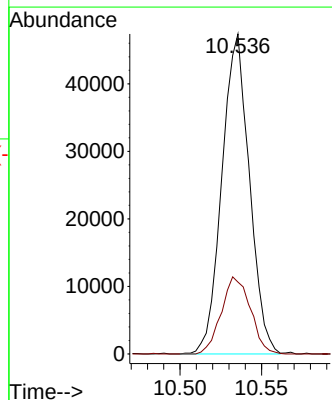
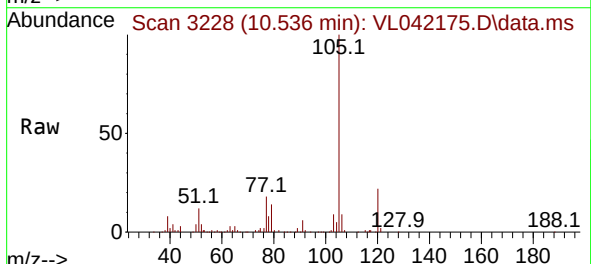
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

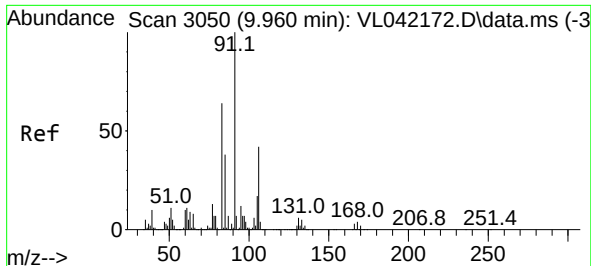
Tgt Ion:104 Resp: 17198
Ion Ratio Lower Upper
104 100
78 53.7 41.8 62.6
103 50.2 37.0 55.4



#62
Isopropylbenzene
Concen: 0.538 ppbv
RT: 10.536 min Scan# 3228
Delta R.T. -0.000 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

Tgt Ion:105 Resp: 55531
Ion Ratio Lower Upper
105 100
120 25.5 19.9 29.9





#63

1,1,2,2-Tetrachloroethane

Concen: 0.525 ppbv

RT: 9.959 min Scan# 3050

Delta R.T. -0.000 min

Lab File: VL042175.D

Acq: 27 Mar 2025 10:01

Instrument :

MSVOA_1

ClientSampleId :

VSTDIC0.5

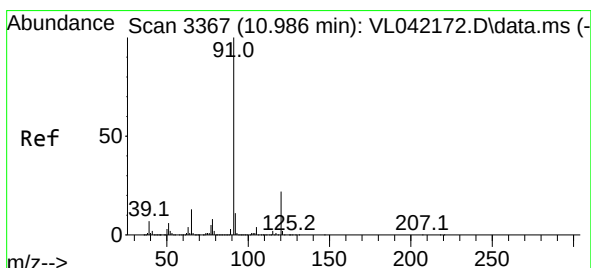
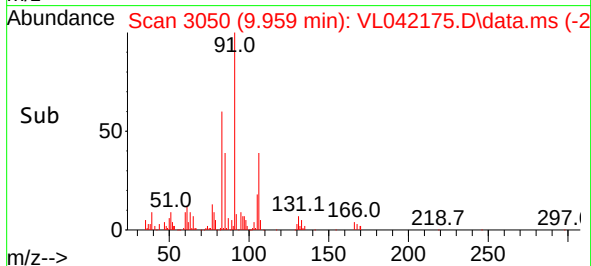
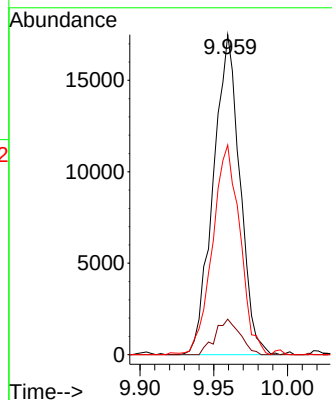
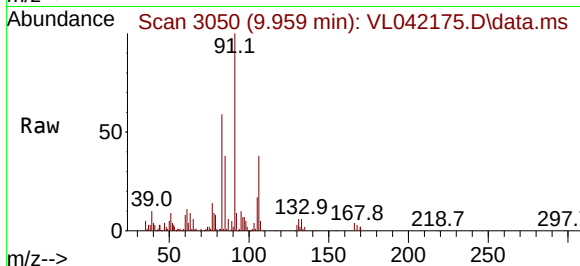
Tgt Ion: 83 Resp: 21989

Ion Ratio Lower Upper

83 100

131 10.4 4.8 14.4

85 68.1 32.5 97.5



#64

n-propylbenzene

Concen: 0.528 ppbv

RT: 10.985 min Scan# 3367

Delta R.T. -0.000 min

Lab File: VL042175.D

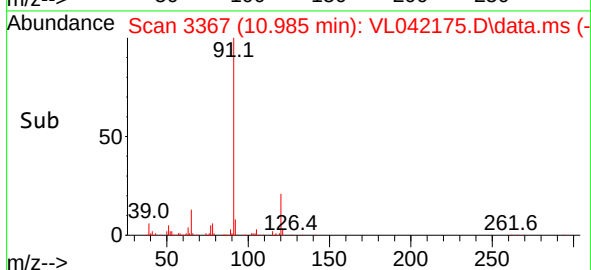
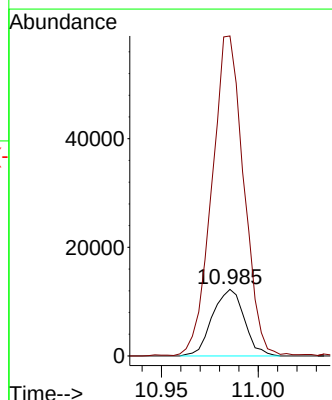
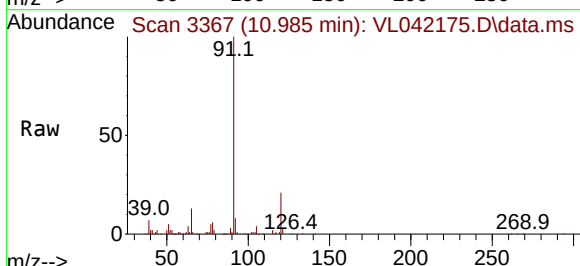
Acq: 27 Mar 2025 10:01

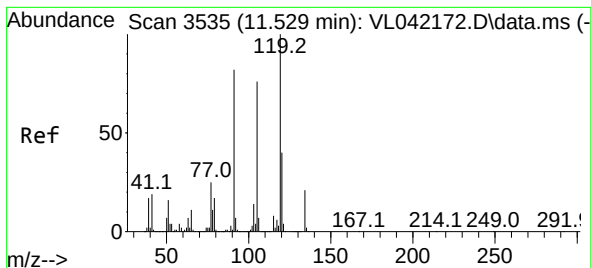
Tgt Ion: 120 Resp: 14030

Ion Ratio Lower Upper

120 100

91 483.1 376.9 565.3

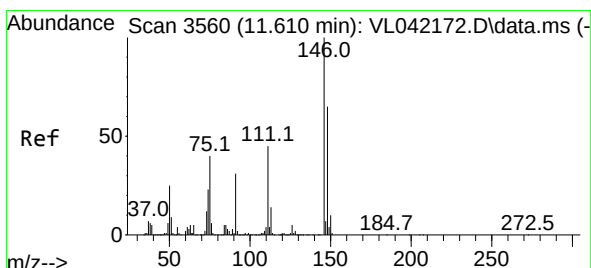
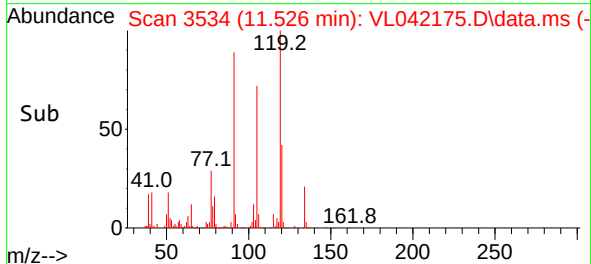
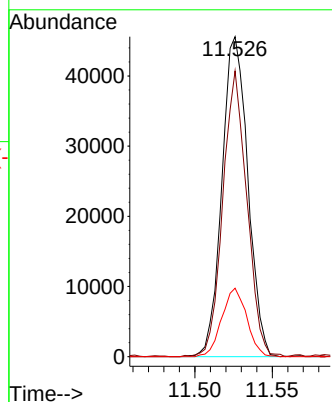
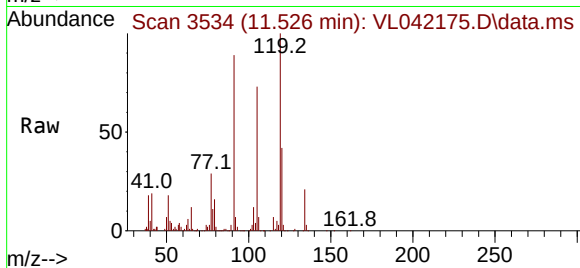




#65
tert-Butylbenzene
Concen: 0.557 ppbv
RT: 11.526 min Scan# 3534
Delta R.T. -0.003 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

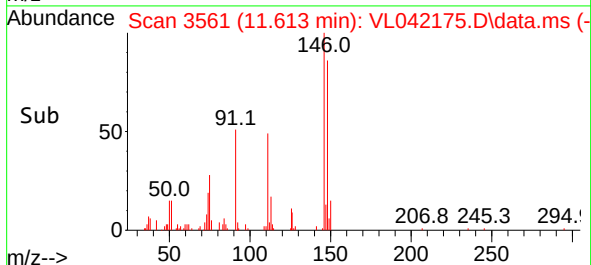
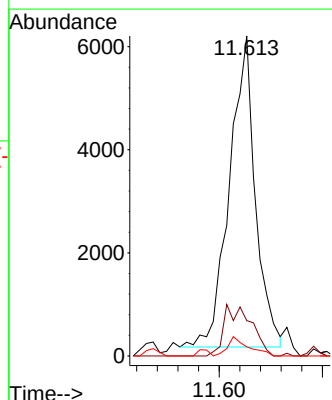
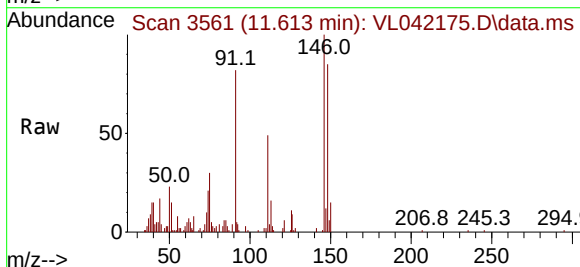
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

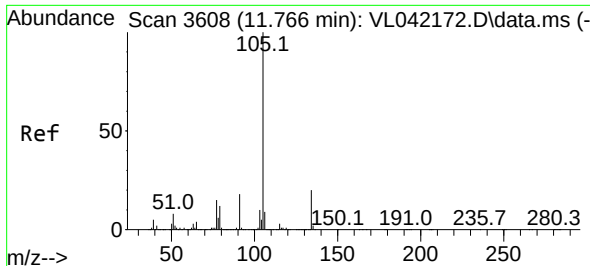
Tgt Ion:119 Resp: 53115
Ion Ratio Lower Upper
119 100
91 82.9 66.0 99.0
134 20.6 16.7 25.1



#66
Benzyl Chloride
Concen: 0.520 ppbv
RT: 11.613 min Scan# 3561
Delta R.T. 0.003 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

Tgt Ion: 91 Resp: 5263
Ion Ratio Lower Upper
91 100
126 18.7 13.8 20.6
128 5.8 4.5 6.7

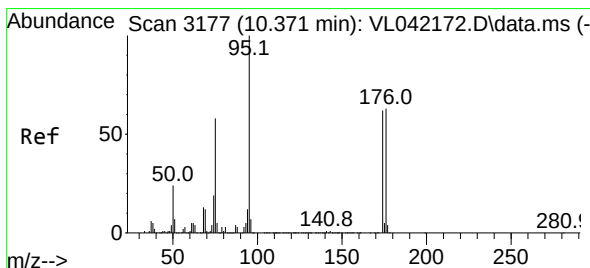
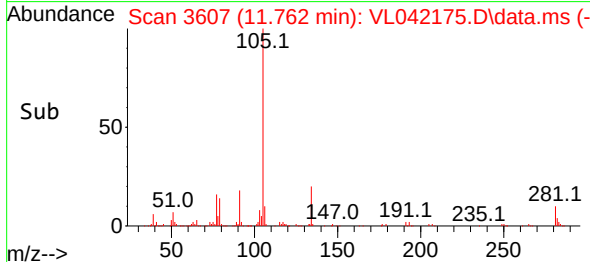
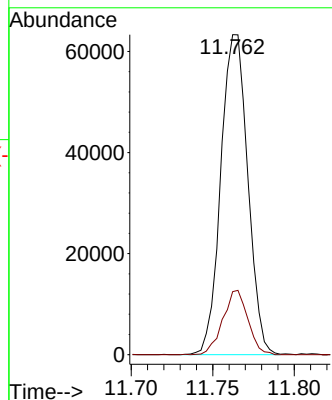
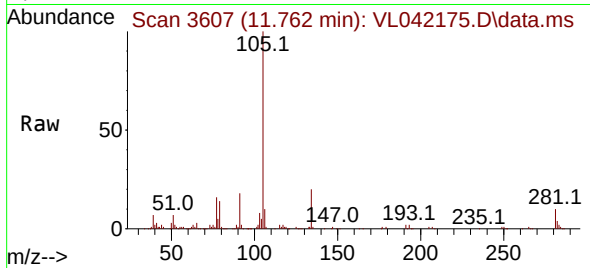




#67
 sec-Butylbenzene
 Concen: 0.550 ppbv
 RT: 11.762 min Scan# 3608
 Delta R.T. -0.003 min
 Lab File: VL042175.D
 Acq: 27 Mar 2025 10:01

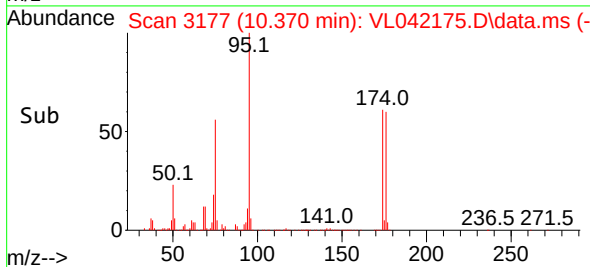
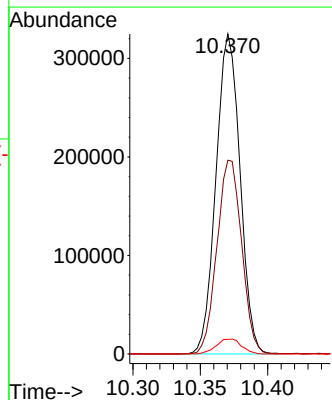
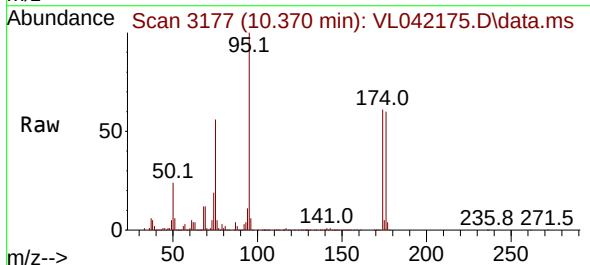
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC0.5

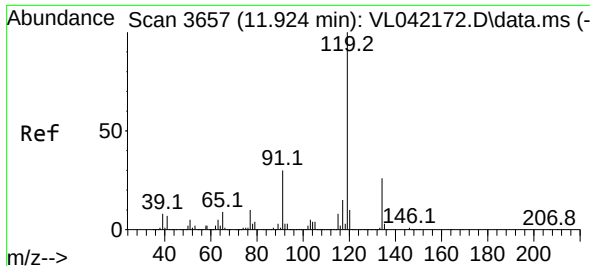
Tgt Ion:105 Resp: 72879
 Ion Ratio Lower Upper
 105 100
 134 18.6 15.5 23.3



#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.130 ppbv
 RT: 10.370 min Scan# 3177
 Delta R.T. -0.000 min
 Lab File: VL042175.D
 Acq: 27 Mar 2025 10:01

Tgt Ion: 95 Resp: 403513
 Ion Ratio Lower Upper
 95 100
 174 62.3 50.6 76.0
 175 4.9 3.8 5.6

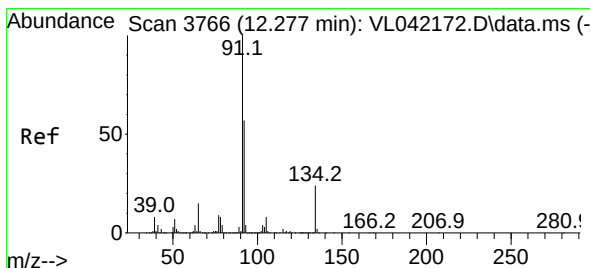
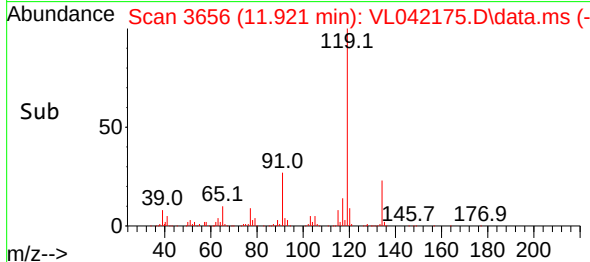
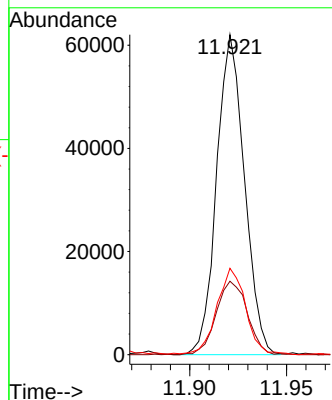
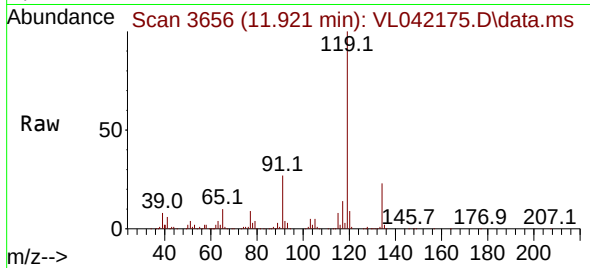




#69
 p-Isopropyltoluene
 Concen: 0.542 ppbv
 RT: 11.921 min Scan# 3656
 Delta R.T. -0.003 min
 Lab File: VL042175.D
 Acq: 27 Mar 2025 10:01

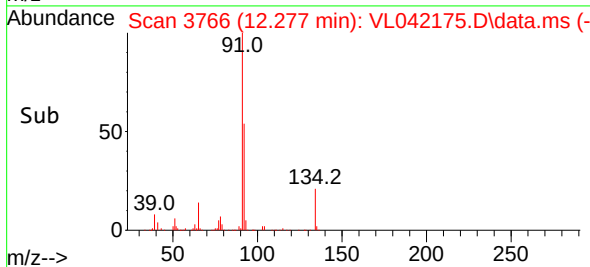
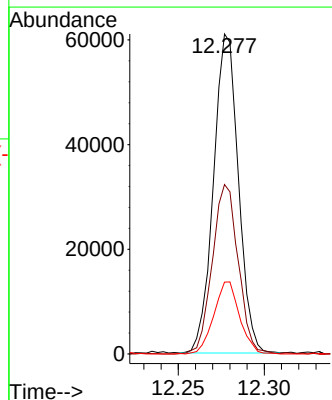
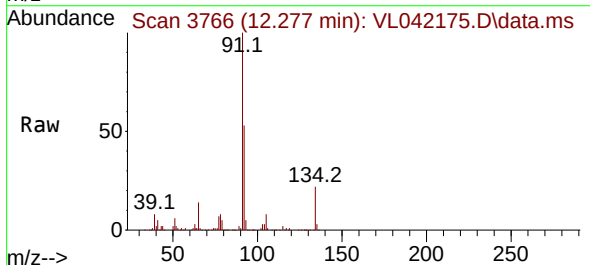
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

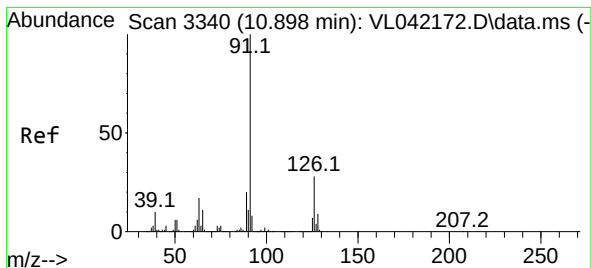
Tgt Ion:119 Resp: 61933
 Ion Ratio Lower Upper
 119 100
 134 25.8 20.4 30.6
 91 29.4 23.7 35.5



#70
 n-Butylbenzene
 Concen: 0.527 ppbv
 RT: 12.277 min Scan# 3766
 Delta R.T. -0.000 min
 Lab File: VL042175.D
 Acq: 27 Mar 2025 10:01

Tgt Ion: 91 Resp: 61507
 Ion Ratio Lower Upper
 91 100
 92 55.3 44.9 67.3
 134 23.4 19.2 28.8

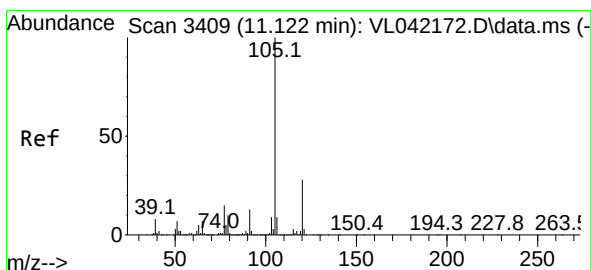
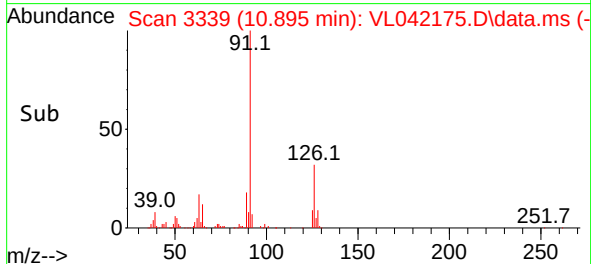
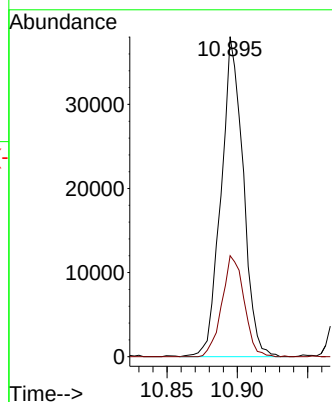
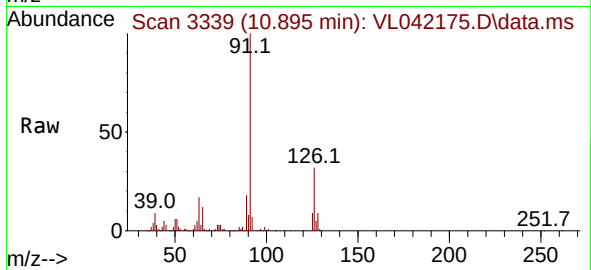




#71
2-Chlorotoluene
Concen: 0.520 ppbv
RT: 10.895 min Scan# 311
Delta R.T. -0.003 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

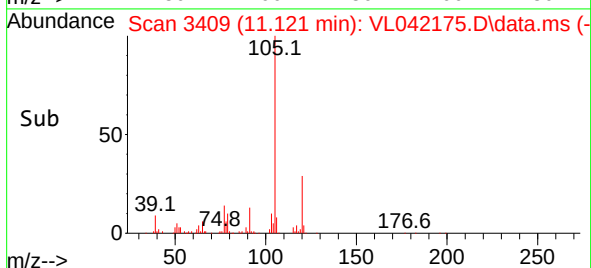
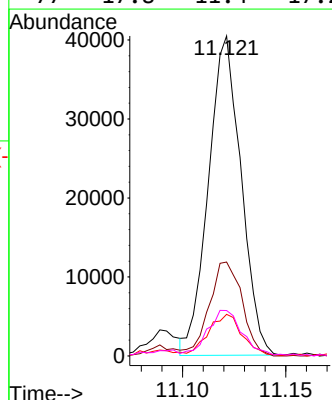
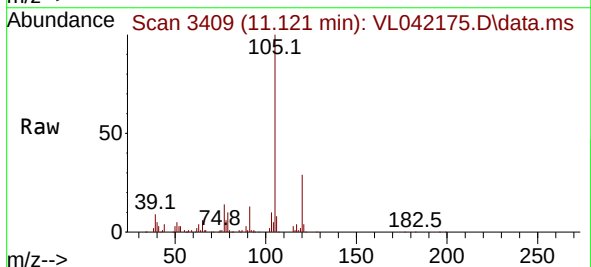
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

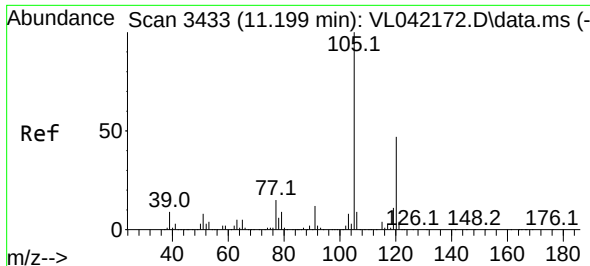
Tgt Ion: 91 Resp: 41637
Ion Ratio Lower Upper
91 100
126 31.7 11.6 46.4



#72
4-Ethyltoluene
Concen: 0.518 ppbv
RT: 11.121 min Scan# 3409
Delta R.T. -0.000 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

Tgt Ion: 105 Resp: 44473
Ion Ratio Lower Upper
105 100
120 32.3 23.4 35.0
91 14.9 10.3 15.5
77 17.8 11.4 17.2#

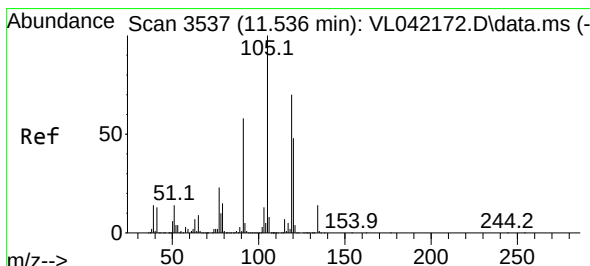
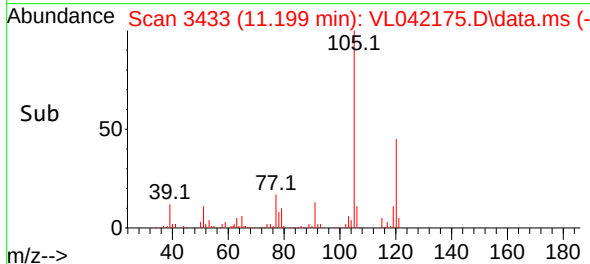
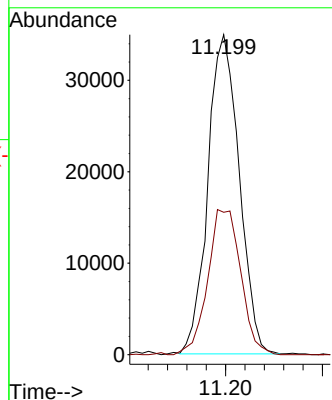
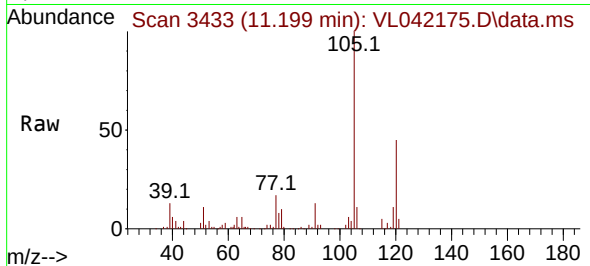




#73
 1,3,5-Trimethylbenzene
 Concen: 0.523 ppbv
 RT: 11.199 min Scan# 3433
 Delta R.T. -0.000 min
 Lab File: VL042175.D
 Acq: 27 Mar 2025 10:01

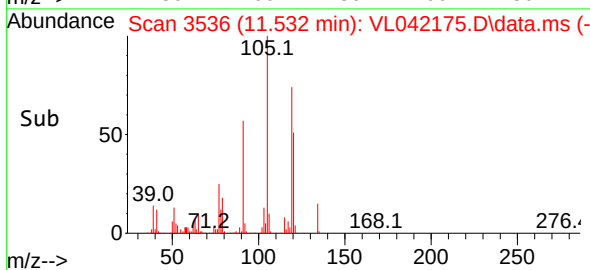
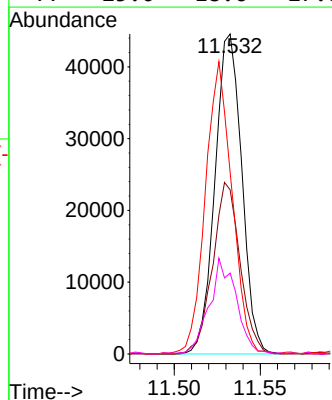
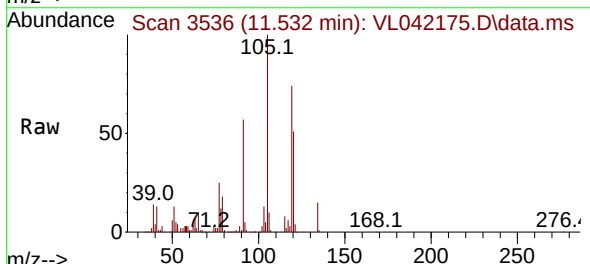
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC0.5

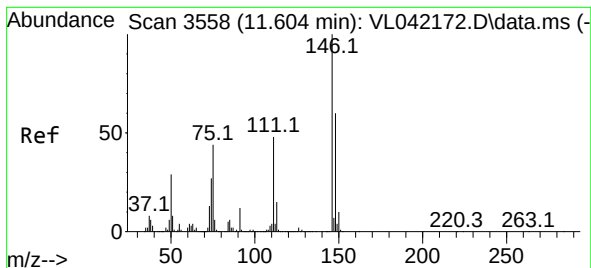
Tgt Ion:105 Resp: 39190
 Ion Ratio Lower Upper
 105 100
 120 44.6 37.4 56.0



#74
 1,2,4-Trimethylbenzene
 Concen: 0.560 ppbv
 RT: 11.532 min Scan# 3536
 Delta R.T. -0.003 min
 Lab File: VL042175.D
 Acq: 27 Mar 2025 10:01

Tgt Ion:105 Resp: 48370
 Ion Ratio Lower Upper
 105 100
 120 51.3 38.6 58.0
 91 56.5 46.2 69.2
 77 25.0 18.6 27.8





#75

1,3-Dichlorobenzene

Concen: 0.530 ppbv

RT: 11.600 min Scan# 3558

Delta R.T. -0.003 min

Lab File: VL042175.D

Acq: 27 Mar 2025 10:01

Instrument :

MSVOA_1

ClientSampleId :

VSTDIC0.5

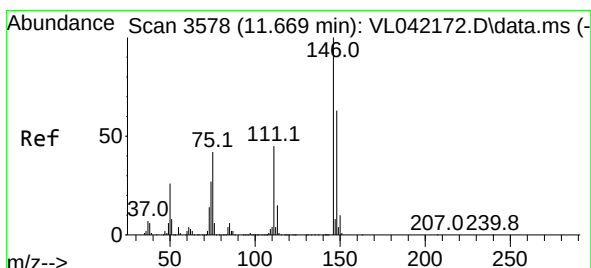
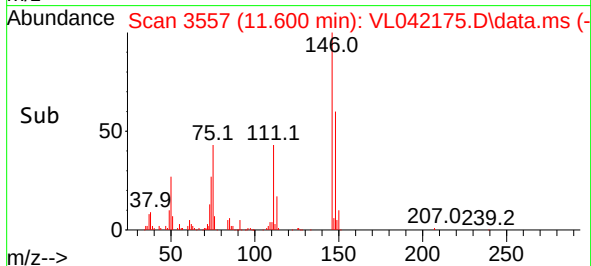
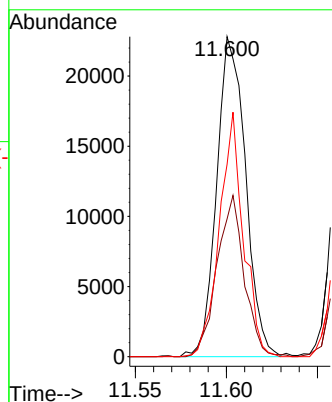
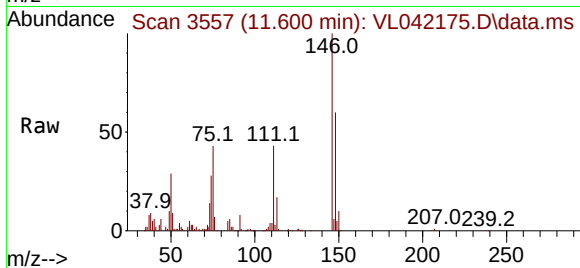
Tgt Ion:146 Resp: 25122

Ion Ratio Lower Upper

146 100

111 47.5 23.8 71.2

148 63.7 31.9 95.9



#76

1,4-Dichlorobenzene

Concen: 0.530 ppbv

RT: 11.668 min Scan# 3578

Delta R.T. -0.000 min

Lab File: VL042175.D

Acq: 27 Mar 2025 10:01

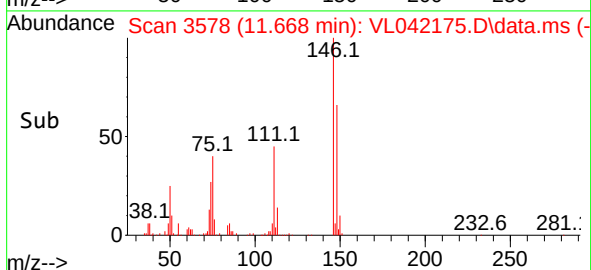
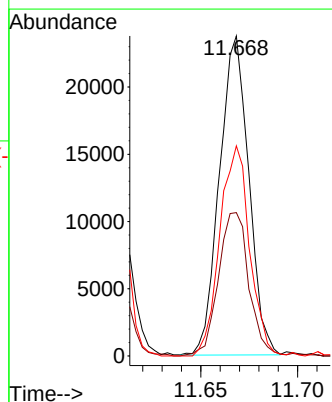
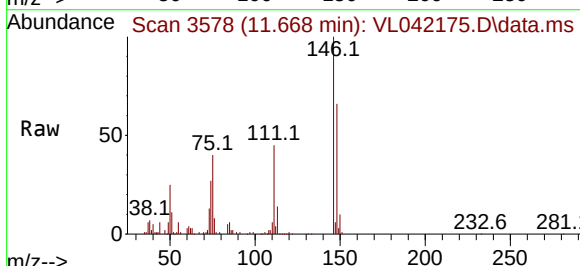
Tgt Ion:146 Resp: 24991

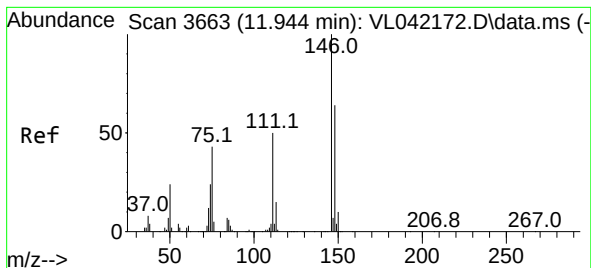
Ion Ratio Lower Upper

146 100

111 47.0 23.0 69.0

148 67.5 31.9 95.7





#77

1,2-Dichlorobenzene

Concen: 0.532 ppbv

RT: 11.943 min Scan# 3

Delta R.T. -0.000 min

Lab File: VL042175.D

Acq: 27 Mar 2025 10:01

Instrument :

MSVOA_1

ClientSampleId :

VSTDIC0.5

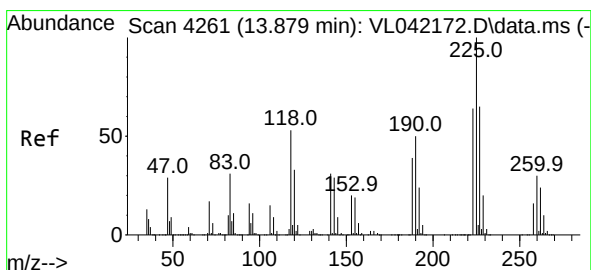
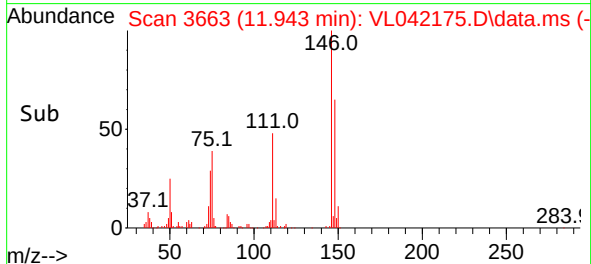
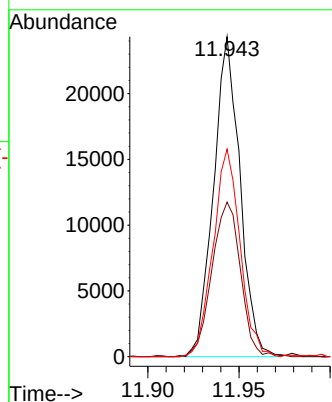
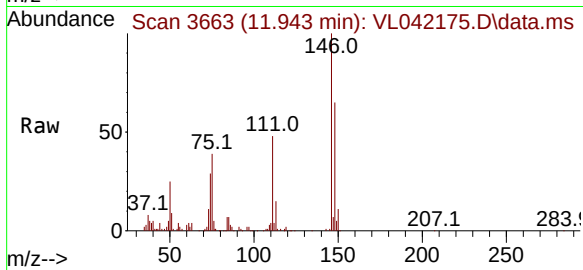
Tgt Ion:146 Resp: 24548

Ion Ratio Lower Upper

146 100

111 52.2 24.8 74.3

148 66.6 31.6 94.8



#78

Hexachloro-1,3-Butadiene

Concen: 0.546 ppbv

RT: 13.879 min Scan# 4261

Delta R.T. -0.000 min

Lab File: VL042175.D

Acq: 27 Mar 2025 10:01

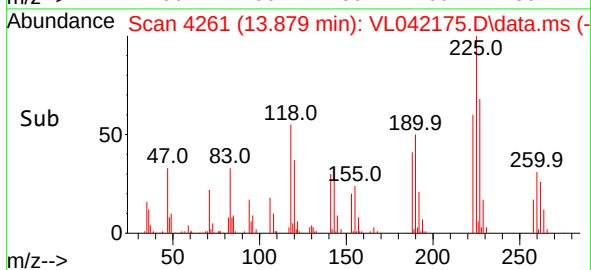
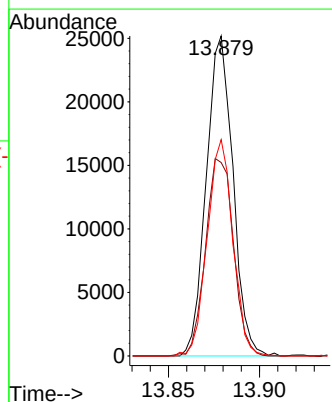
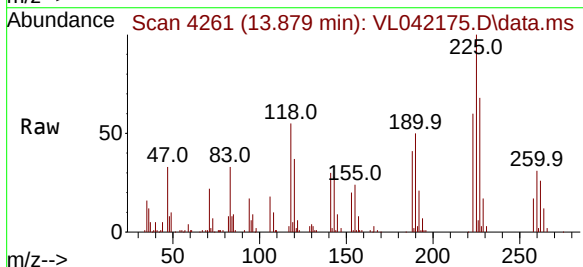
Tgt Ion:225 Resp: 25636

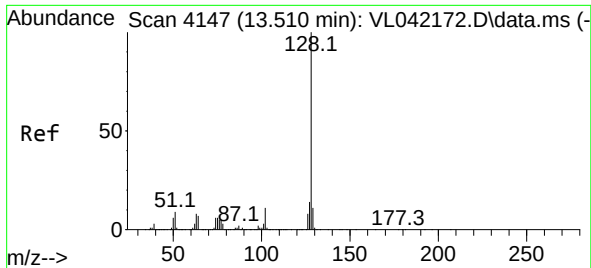
Ion Ratio Lower Upper

225 100

223 64.5 50.6 76.0

227 64.8 51.2 76.8

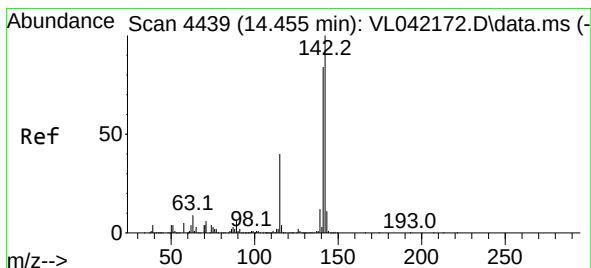
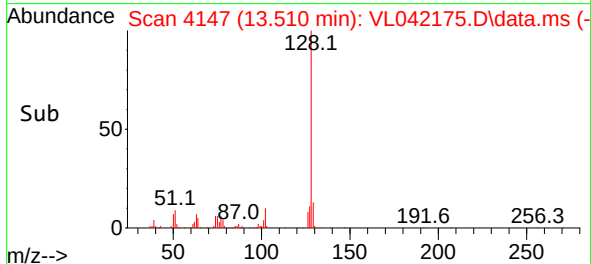
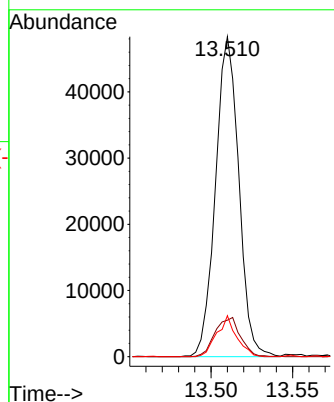
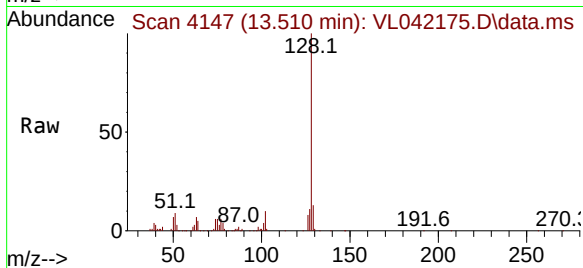




#79
Naphthalene
Concen: 0.508 ppbv
RT: 13.510 min Scan# 4147
Delta R.T. -0.000 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

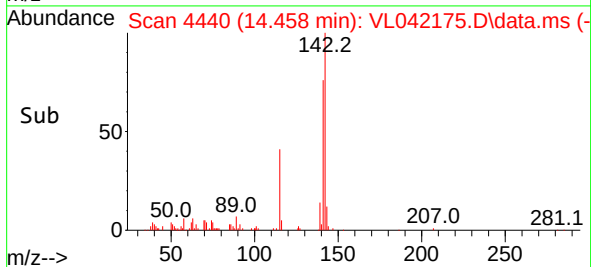
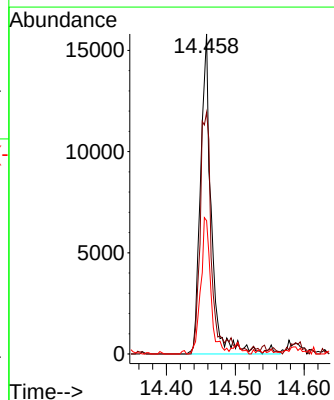
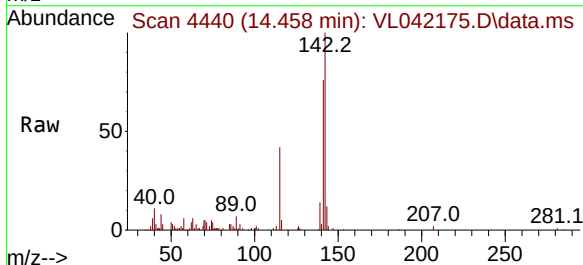
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

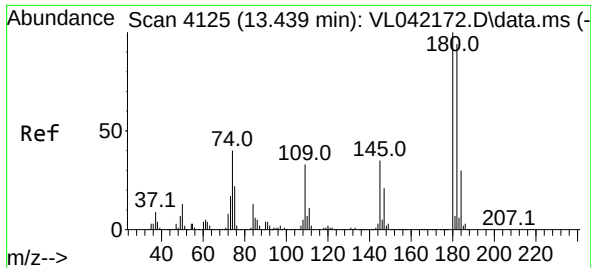
Tgt Ion:128 Resp: 47990
Ion Ratio Lower Upper
128 100
127 11.4 10.8 16.2
129 12.8 9.0 13.4



#80
Naphthalene,2-methyl-
Concen: 0.380 ppbv
RT: 14.458 min Scan# 4440
Delta R.T. 0.003 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

Tgt Ion:142 Resp: 17486
Ion Ratio Lower Upper
142 100
141 83.3 66.3 99.5
115 43.5 31.6 47.4

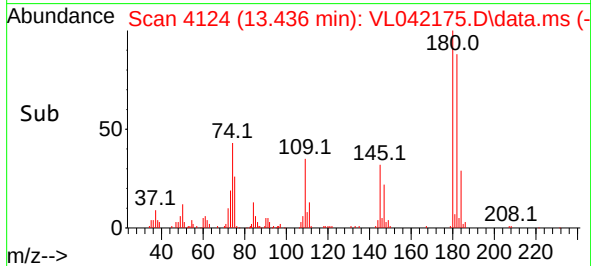
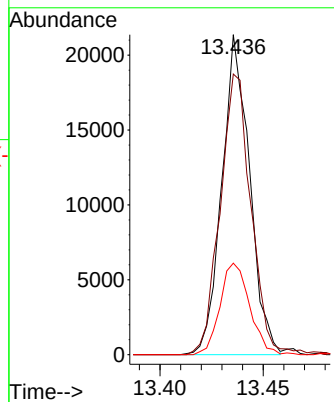
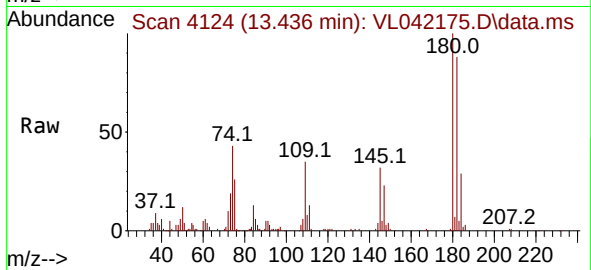




#81
 1,2,4-Trichlorobenzene
 Concen: 0.457 ppbv
 RT: 13.436 min Scan# 41
 Delta R.T. -0.003 min
 Lab File: VL042175.D
 Acq: 27 Mar 2025 10:01

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Tgt Ion:180 Resp: 19924
 Ion Ratio Lower Upper
 180 100
 182 97.9 75.1 112.7
 184 31.1 24.4 36.6



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
 Data File : VL042176.D
 Acq On : 27 Mar 2025 10:32
 Operator : SY/MD
 Sample : VSTDIC0.1
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.1

Quant Time: Mar 28 01:35:34 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri Mar 28 01:31:23 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.787	49	180740	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.955	114	528028	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.878	117	481506	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.374	95	398069	10.067	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.700%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.554	85	2353	0.088	ppbv	100
3) Chlorodifluoromethane	1.476	51	3006	0.110	ppbv #	40
4) Chloromethane	1.531	50	1330	0.122	ppbv #	53
5) Vinyl Chloride	1.580	62	1274	0.115	ppbv #	42
6) Bromomethane	1.667	94	537	0.109	ppbv #	73
7) Chloroethane	1.703	64	616	0.141	ppbv #	49
8) Dichlorotetrafluoroethane	1.554	85	2353	0.104	ppbv	92
9) Propene	1.486	41	1664	0.135	ppbv #	44
11) Trichlorofluoromethane	1.878	101	2644	0.102	ppbv	97
12) 1,1,2-Trichlorotrifluo...	2.136	101	2551	0.120	ppbv #	81
13) Ethanol	1.716	45	721	0.750	ppbv	60
14) Bromoethene	1.780	108	956	0.117	ppbv #	11
15) Acetone	1.835	43	5179	0.205	ppbv	92
16) 1,3-Butadiene	1.609	39	1912	0.168	ppbv	94
17) tert-Butyl alcohol	2.046	59	3546	0.113	ppbv #	30
18) 1,1-Dichloroethene	2.033	96	1155	0.116	ppbv #	72
19) Isopropyl Alcohol	1.891	45	1838	0.129	ppbv #	49
20) Methylene Chloride	2.059	84	2388	0.254	ppbv #	88
21) Allyl Chloride	2.091	41	3040	0.171	ppbv #	77
22) trans-1,2-Dichloroethene	2.722	96	1512	0.130	ppbv	99
23) Vinyl Acetate	2.457	43	1746	0.166	ppbv #	1
24) 1,1-Dichloroethane	2.408	63	2446	0.114	ppbv #	92
25) Ethyl Acetate	2.842	43	6359	0.097	ppbv #	80
26) Hexane	2.823	57	3126	0.123	ppbv #	5
27) Carbon Disulfide	2.149	76	3075	0.113	ppbv #	1
28) Methyl tert-Butyl Ether	2.438	73	875	0.055	ppbv #	49
29) Chloroform	2.845	83	4120	0.111	ppbv	92
30) Cyclohexane	3.855	84	1113	0.051	ppbv #	1
31) cis-1,2-Dichloroethene	2.722	61	2587	0.101	ppbv	95
32) 1,1,1-Trichloroethane	3.366	97	2773	0.065	ppbv #	50
34) 2-Butanone	2.564	43	4331	0.113	ppbv	91
35) Carbon Tetrachloride	3.768	117	3523	0.087	ppbv #	71
36) Benzene	3.658	78	5031	0.096	ppbv #	82
37) 1,2-Dichloroethane	3.218	62	2942	0.098	ppbv	97
39) 1,2-Dichloropropane	3.959	63	135792	7.123	ppbv #	22
40) 1,4-Dioxane	4.616	88	843	0.085	ppbv #	25
42) Bromodichloromethane	4.490	83	4103	0.099	ppbv #	94
43) Methyl Methacrylate	4.878	69	930	0.042	ppbv #	1
45) t-1,3-Dichloropropene	6.419	75	1449	0.061	ppbv #	64
48) Dibromochloromethane	7.383	129	2284	0.067	ppbv	68
49) Bromoform	9.480	173	2928	0.095	ppbv	94
51) 2-Hexanone	7.448	43	4284	0.085	ppbv #	87
53) Toluene	6.930	91	3144	0.051	ppbv #	25

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
 Data File : VL042176.D
 Acq On : 27 Mar 2025 10:32
 Operator : SY/MD
 Sample : VSTDICC0.1
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC0.1

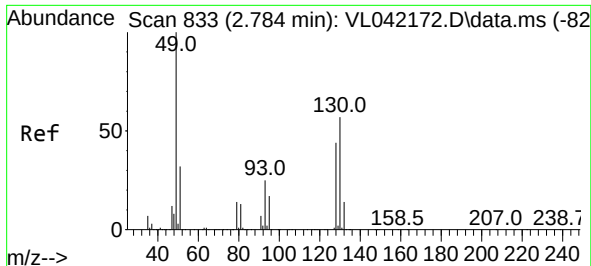
Quant Time: Mar 28 01:35:34 2025
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 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri Mar 28 01:31:23 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
54) 1,2-Dibromoethane	7.652	107	1864	0.066	ppbv	98
56) 1,1,1,2-Tetrachloroethane	8.924	131	2963	0.112	ppbv #	1
57) Chlorobenzene	8.917	112	4904	0.107	ppbv #	74
58) Ethyl Benzene	9.354	91	8648	0.101	ppbv	93
59) m/p-Xylene	9.545	91	6005	0.088	ppbv #	12
60) o-Xylene	9.959	91	8048	0.118	ppbv	96
61) Styrene	9.872	104	1723	0.051	ppbv #	25
62) Isopropylbenzene	10.536	105	10359	0.101	ppbv	97
63) 1,1,2,2-Tetrachloroethane	9.959	83	1910	0.046	ppbv #	25
64) n-propylbenzene	10.989	120	2375	0.090	ppbv #	62
65) tert-Butylbenzene	11.526	119	9418	0.099	ppbv	94
66) Benzyl Chloride	11.617	91	844	0.084	ppbv #	86
67) sec-Butylbenzene	11.765	105	13775	0.105	ppbv	96
69) p-Isopropyltoluene	11.924	119	11366	0.100	ppbv	98
70) n-Butylbenzene	12.280	91	10697	0.092	ppbv	97
71) 2-Chlorotoluene	10.898	91	8347	0.105	ppbv	98
72) 4-Ethyltoluene	11.125	105	8579	0.101	ppbv #	84
73) 1,3,5-Trimethylbenzene	11.202	105	8407	0.113	ppbv	91
74) 1,2,4-Trimethylbenzene	11.536	105	10341	0.121	ppbv #	95
75) 1,3-Dichlorobenzene	11.604	146	4426	0.094	ppbv	94
76) 1,4-Dichlorobenzene	11.672	146	4552	0.097	ppbv	95
77) 1,2-Dichlorobenzene	11.947	146	4867	0.106	ppbv	93
78) Hexachloro-1,3-Butadiene	13.882	225	4755	0.102	ppbv	94
79) Naphthalene	13.513	128	7882	0.084	ppbv #	92
80) Naphthalene,2-methyl-	14.471	142	2174	0.048	ppbv #	78
81) 1,2,4-Trichlorobenzene	13.442	180	2557	0.059	ppbv	98

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

Quant Time: Mar 28 01:35:34 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Mar 28 01:31:23 2025
Response via : Initial Calibration

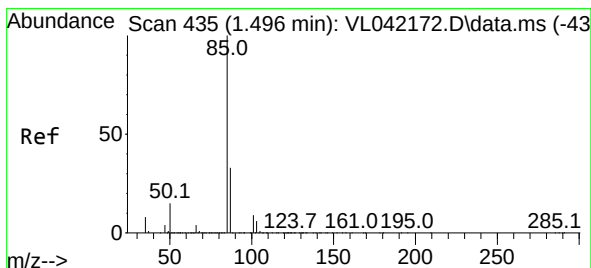
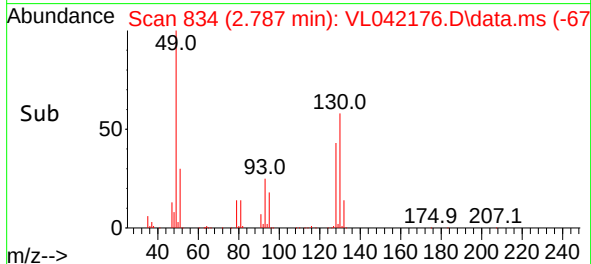
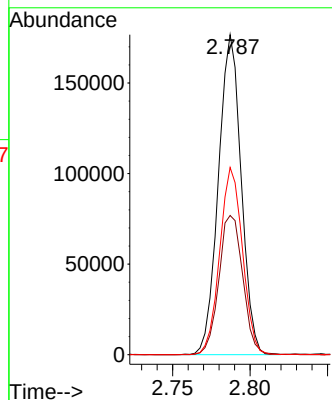
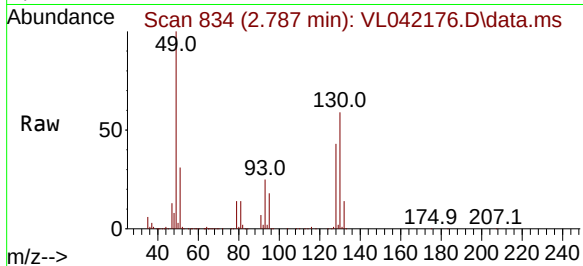




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 2.787 min Scan# 81
 Delta R.T. 0.003 min
 Lab File: VL042176.D
 Acq: 27 Mar 2025 10:32

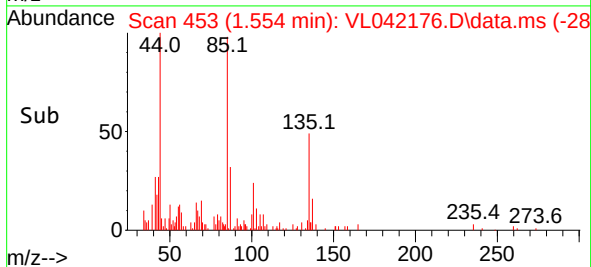
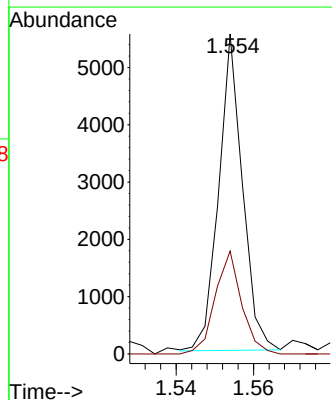
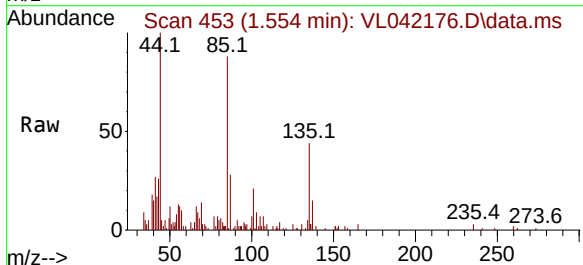
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC0.1

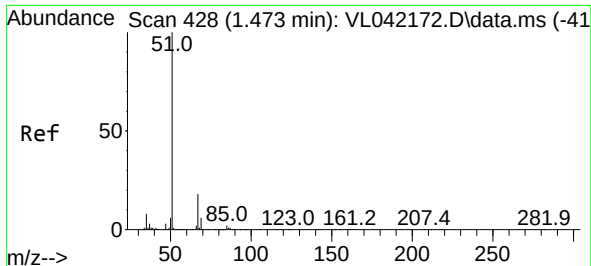
Tgt Ion: 49 Resp: 180740
 Ion Ratio Lower Upper
 49 100
 128 45.6 22.9 68.5
 130 58.5 28.8 86.4



#2
 Dichlorodifluoromethane
 Concen: 0.088 ppbv
 RT: 1.554 min Scan# 453
 Delta R.T. 0.058 min
 Lab File: VL042176.D
 Acq: 27 Mar 2025 10:32

Tgt Ion: 85 Resp: 2353
 Ion Ratio Lower Upper
 85 100
 87 32.5 26.1 39.1

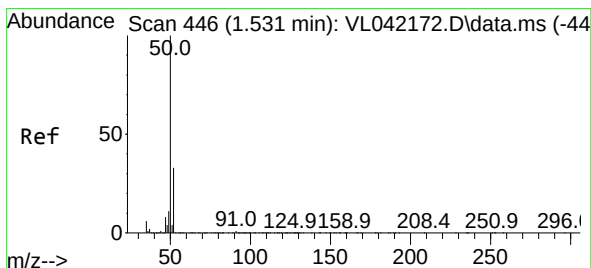
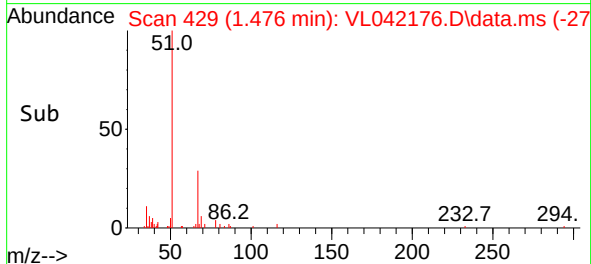
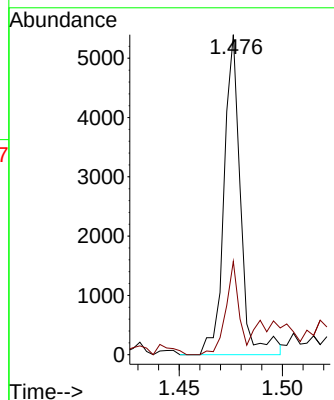
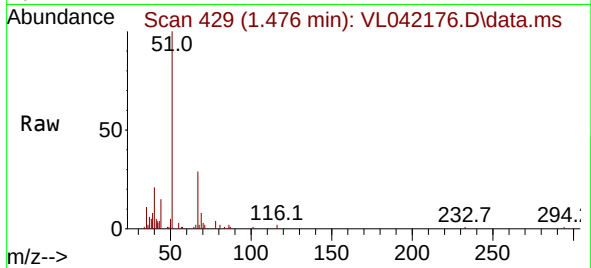




#3
Chlorodifluoromethane
Concen: 0.110 ppbv
RT: 1.476 min Scan# 41
Delta R.T. 0.003 min
Lab File: VL042176.D
Acq: 27 Mar 2025 10:32

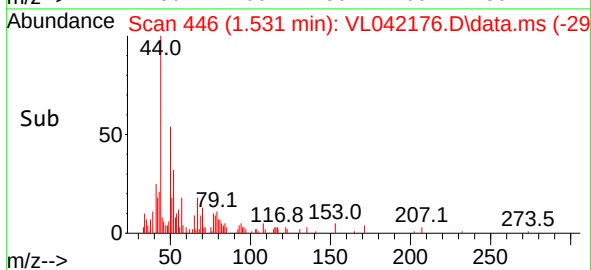
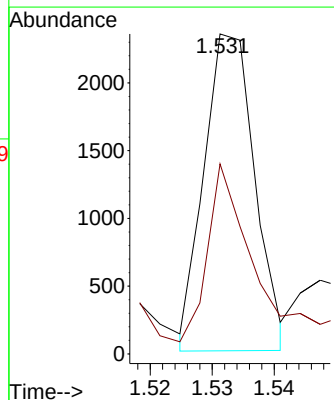
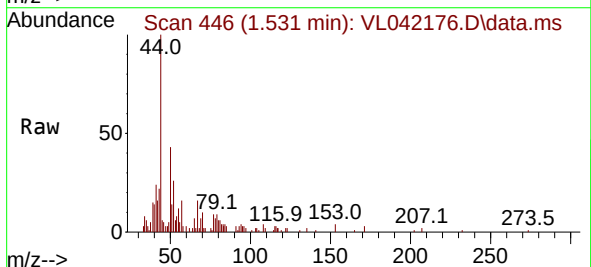
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

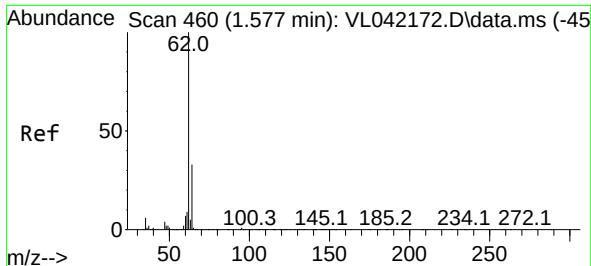
Tgt Ion: 51 Resp: 3006
Ion Ratio Lower Upper
51 100
67 45.8 15.0 22.6#



#4
Chloromethane
Concen: 0.122 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL042176.D
Acq: 27 Mar 2025 10:32

Tgt Ion: 50 Resp: 1330
Ion Ratio Lower Upper
50 100
52 59.3 26.1 39.1#

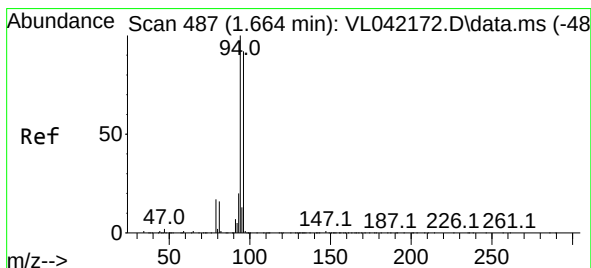
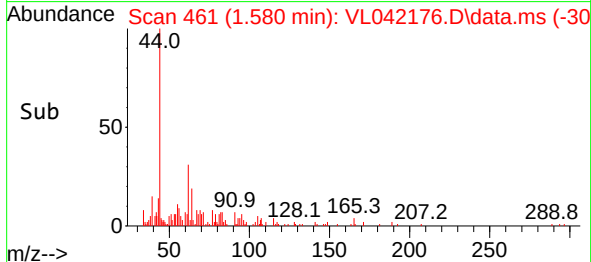
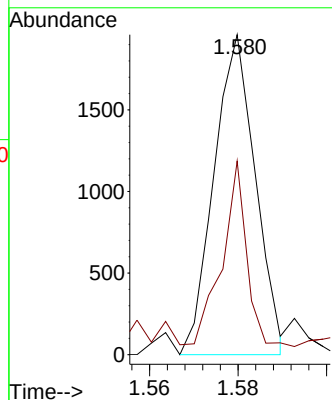
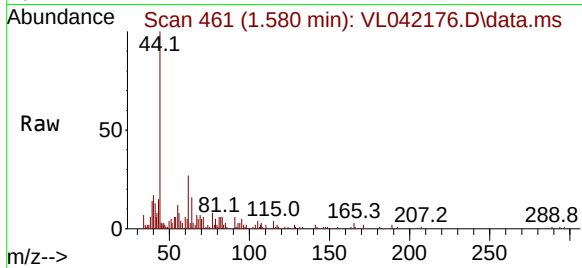




#5
 Vinyl Chloride
 Concen: 0.115 ppbv
 RT: 1.580 min Scan# 461
 Delta R.T. 0.003 min
 Lab File: VL042176.D
 Acq: 27 Mar 2025 10:32

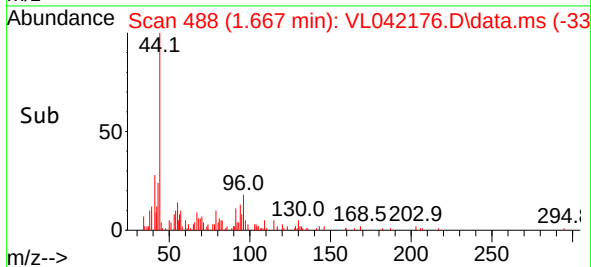
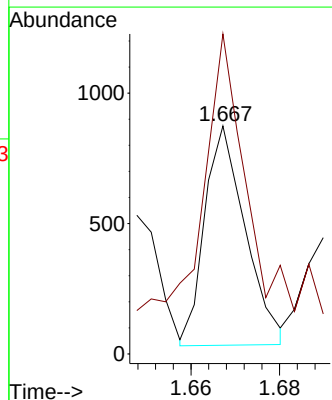
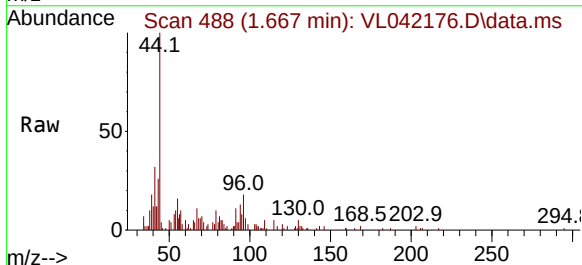
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC0.1

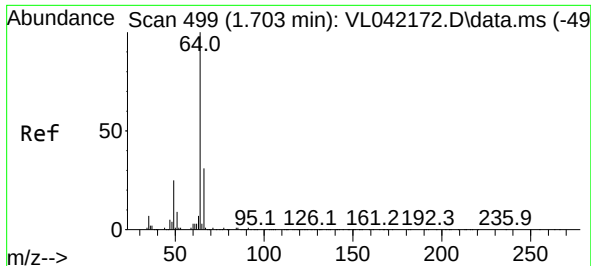
Tgt Ion: 62 Resp: 1274
 Ion Ratio Lower Upper
 62 100
 64 66.4 26.6 40.0#



#6
 Bromomethane
 Concen: 0.109 ppbv
 RT: 1.667 min Scan# 488
 Delta R.T. 0.003 min
 Lab File: VL042176.D
 Acq: 27 Mar 2025 10:32

Tgt Ion: 94 Resp: 537
 Ion Ratio Lower Upper
 94 100
 96 116.6 73.1 109.7#

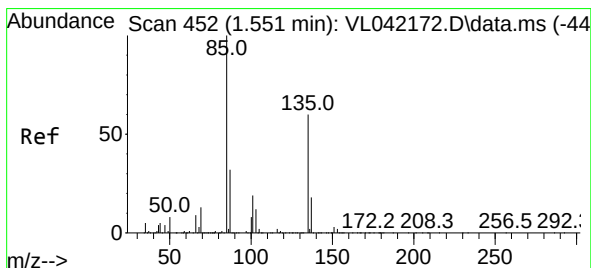
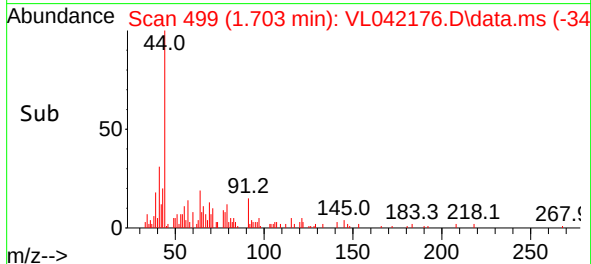
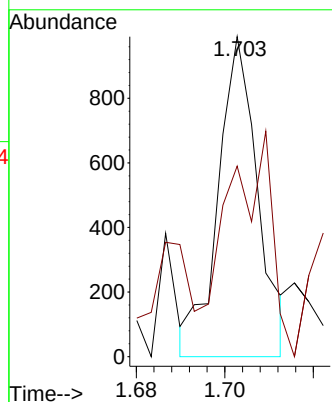
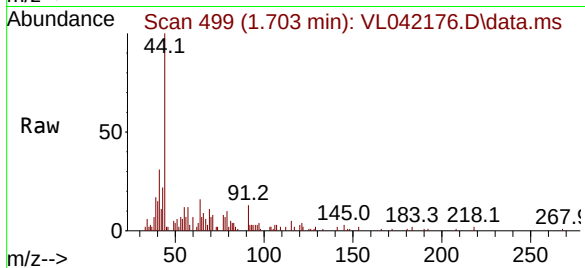




#7
Chloroethane
Concen: 0.141 ppbv
RT: 1.703 min Scan# 499
Delta R.T. -0.000 min
Lab File: VL042176.D
Acq: 27 Mar 2025 10:32

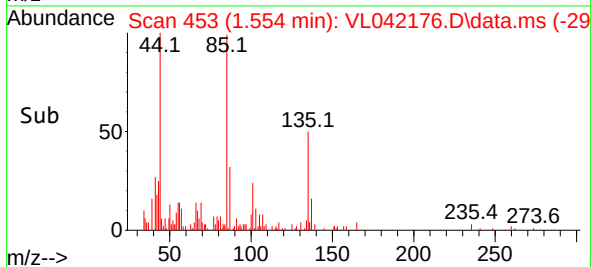
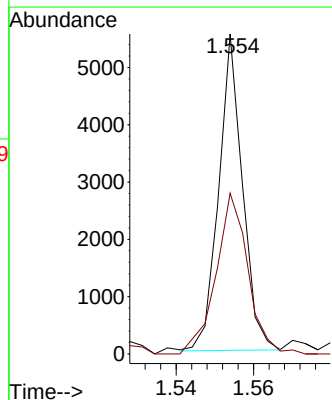
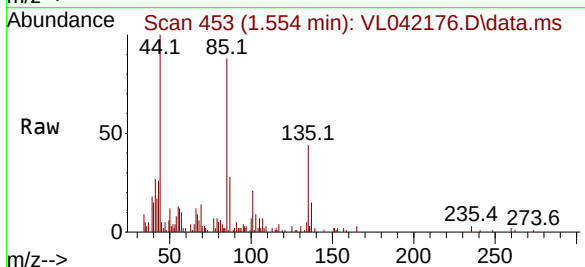
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

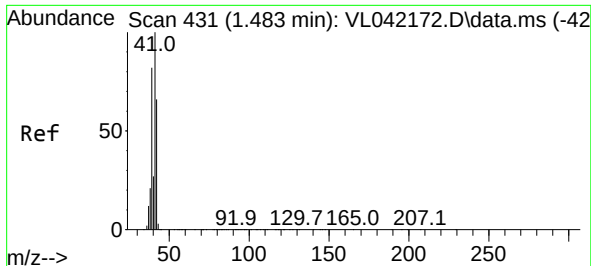
Tgt Ion: 64 Resp: 616
Ion Ratio Lower Upper
64 100
66 59.5 25.2 37.8#



#8
Dichlorotetrafluoroethane
Concen: 0.104 ppbv
RT: 1.554 min Scan# 453
Delta R.T. 0.003 min
Lab File: VL042176.D
Acq: 27 Mar 2025 10:32

Tgt Ion: 85 Resp: 2353
Ion Ratio Lower Upper
85 100
135 71.7 52.4 78.6





#9

Propene

Concen: 0.135 ppbv

RT: 1.486 min Scan# 41

Delta R.T. 0.003 min

Lab File: VL042176.D

Acq: 27 Mar 2025 10:32

Instrument :

MSVOA_1

ClientSampleId :

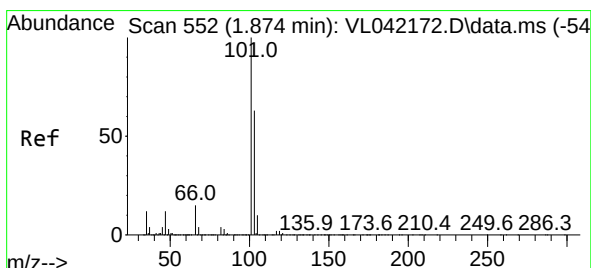
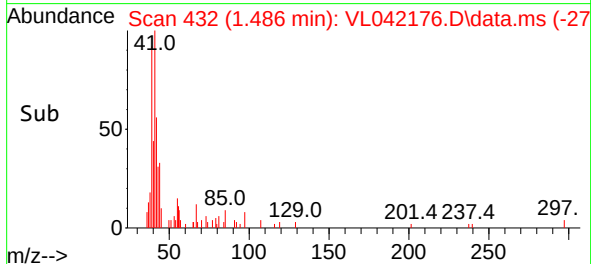
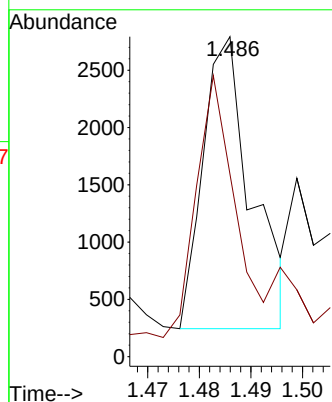
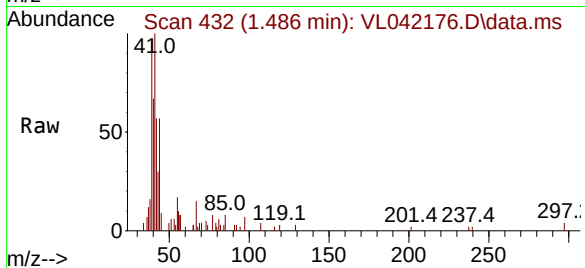
VSTDIC0.1

Tgt Ion: 41 Resp: 1664

Ion Ratio Lower Upper

41 100

42 115.3 55.4 83.2#



#11

Trichlorofluoromethane

Concen: 0.102 ppbv

RT: 1.878 min Scan# 553

Delta R.T. 0.003 min

Lab File: VL042176.D

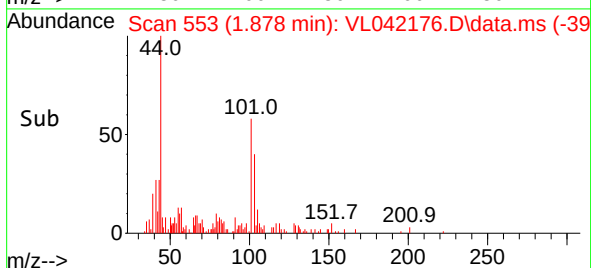
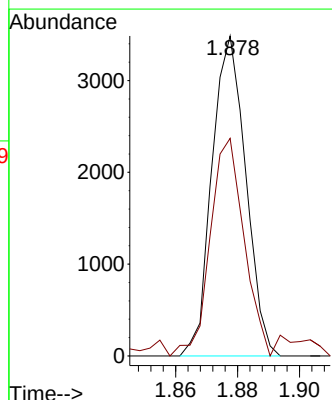
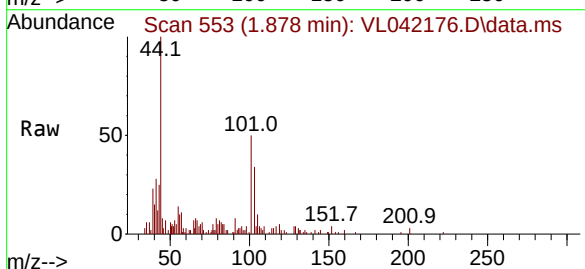
Acq: 27 Mar 2025 10:32

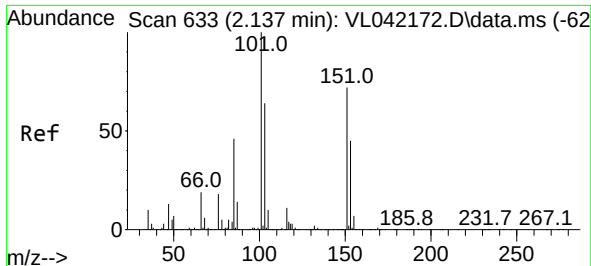
Tgt Ion:101 Resp: 2644

Ion Ratio Lower Upper

101 100

103 64.7 50.2 75.2

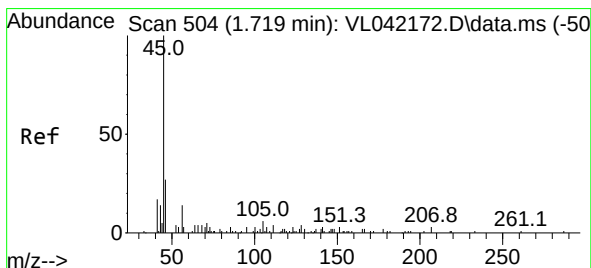
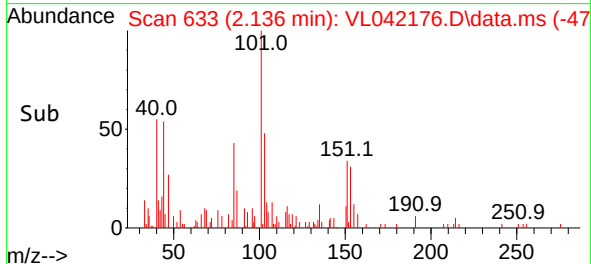
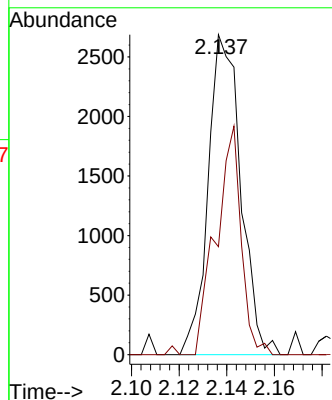
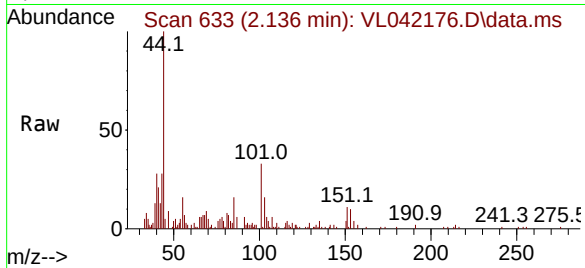




#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.120 ppbv
 RT: 2.136 min Scan# 611
 Delta R.T. -0.000 min
 Lab File: VL042176.D
 Acq: 27 Mar 2025 10:32

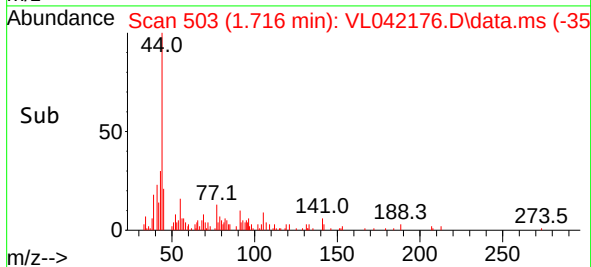
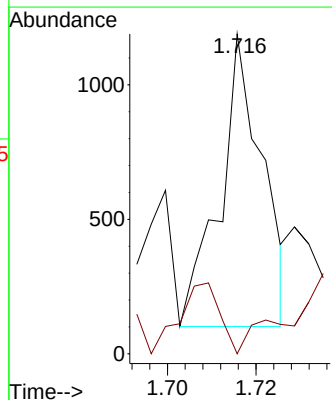
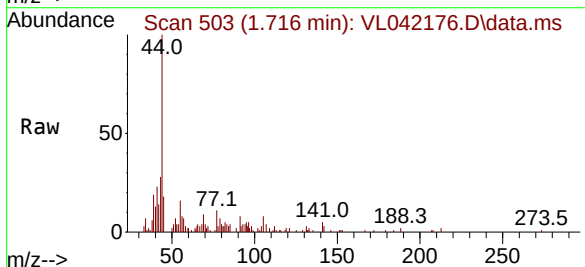
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC0.1

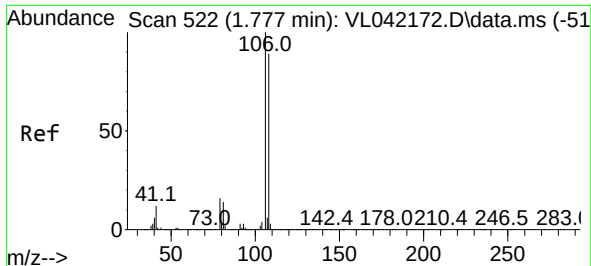
Tgt Ion:101 Resp: 2551
 Ion Ratio Lower Upper
 101 100
 151 55.7 57.1 85.7#



#13
 Ethanol
 Concen: 0.750 ppbv
 RT: 1.716 min Scan# 503
 Delta R.T. -0.003 min
 Lab File: VL042176.D
 Acq: 27 Mar 2025 10:32

Tgt Ion: 45 Resp: 721
 Ion Ratio Lower Upper
 45 100
 46 22.9 20.2 80.8





#14

Bromoethene

Concen: 0.117 ppbv

RT: 1.780 min Scan# 51

Delta R.T. 0.003 min

Lab File: VL042176.D

Acq: 27 Mar 2025 10:32

Instrument :

MSVOA_1

ClientSampleId :

VSTDIC0.1

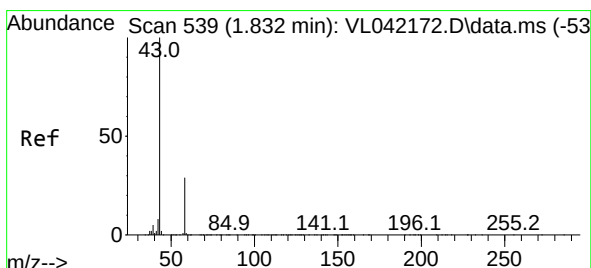
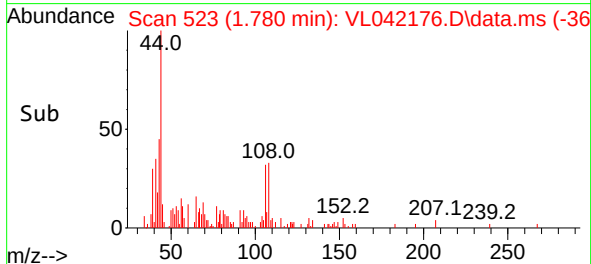
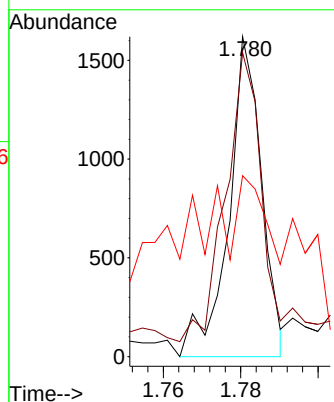
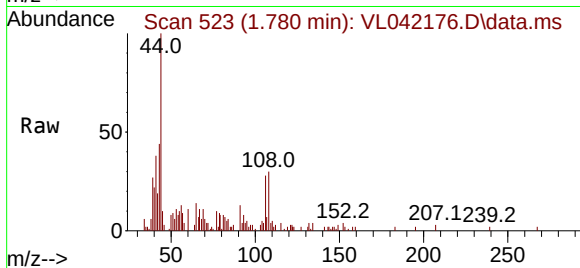
Tgt Ion:108 Resp: 956

Ion Ratio Lower Upper

108 100

106 177.0 86.8 130.2#

79 120.6 15.0 22.6#



#15

Acetone

Concen: 0.205 ppbv

RT: 1.835 min Scan# 540

Delta R.T. 0.003 min

Lab File: VL042176.D

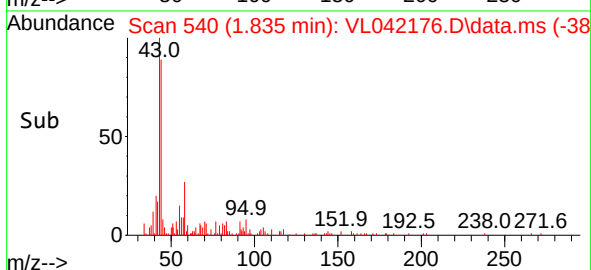
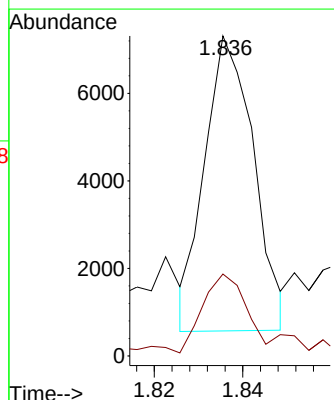
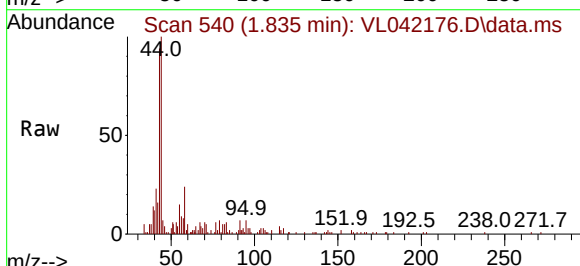
Acq: 27 Mar 2025 10:32

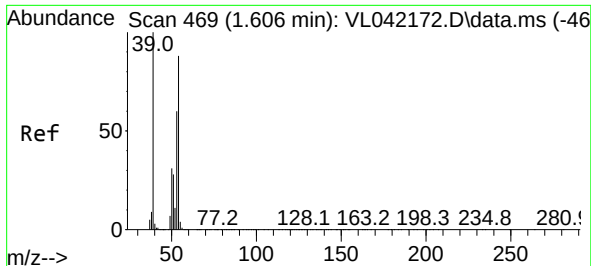
Tgt Ion: 43 Resp: 5179

Ion Ratio Lower Upper

43 100

58 33.1 23.2 34.8

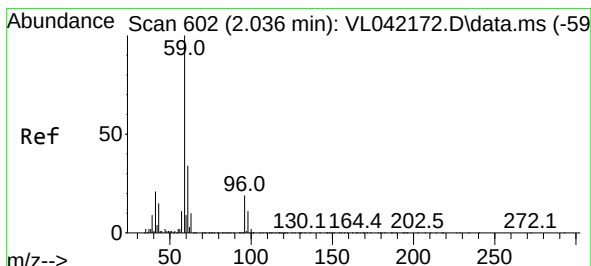
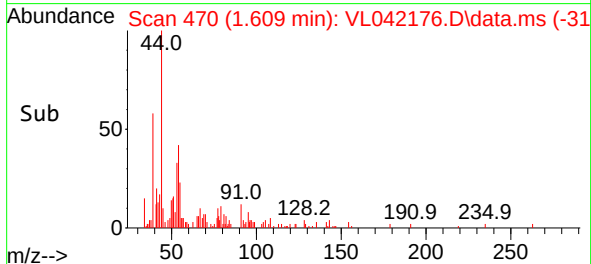
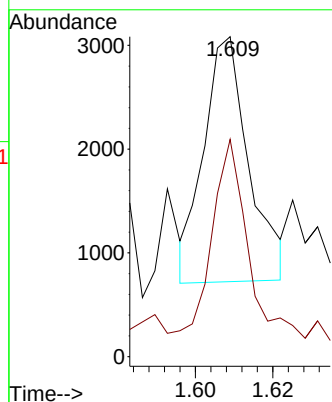
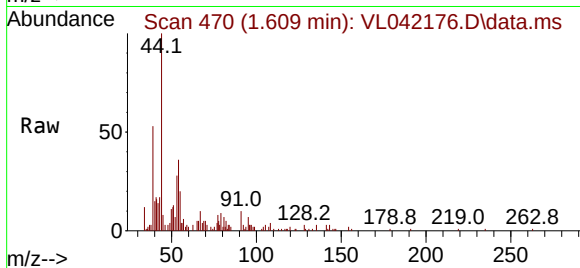




#16
1,3-Butadiene
Concen: 0.168 ppbv
RT: 1.609 min Scan# 41
Delta R.T. 0.003 min
Lab File: VL042176.D
Acq: 27 Mar 2025 10:32

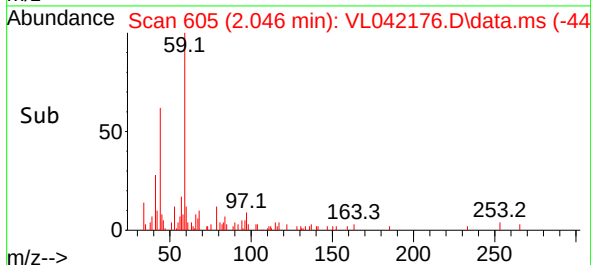
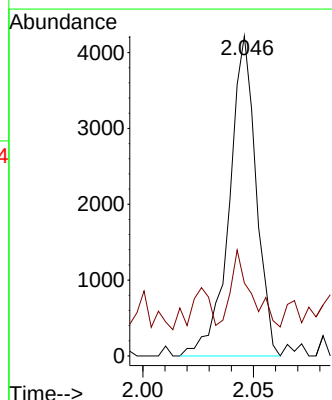
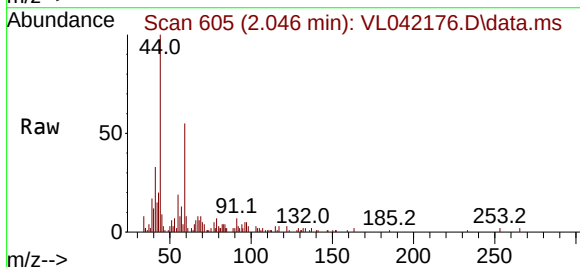
Instrument :
MSVOA_1
ClientSampleId :
VSTDICC0.1

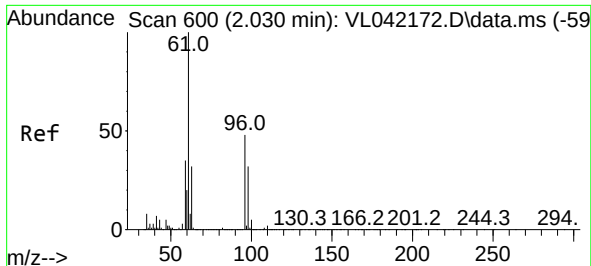
Tgt Ion: 39 Resp: 1912
Ion Ratio Lower Upper
39 100
54 70.7 60.7 91.1



#17
tert-Butyl alcohol
Concen: 0.113 ppbv
RT: 2.046 min Scan# 605
Delta R.T. 0.010 min
Lab File: VL042176.D
Acq: 27 Mar 2025 10:32

Tgt Ion: 59 Resp: 3546
Ion Ratio Lower Upper
59 100
57 37.8 8.9 13.3#

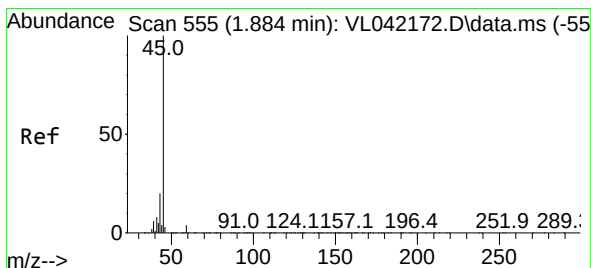
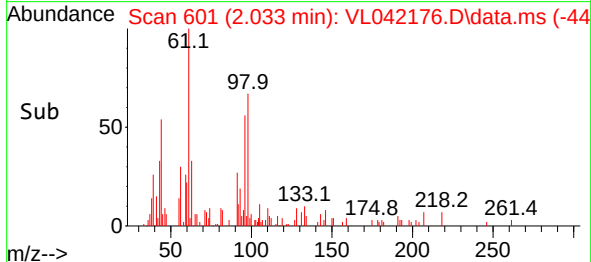
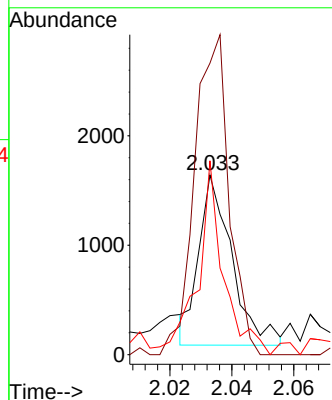
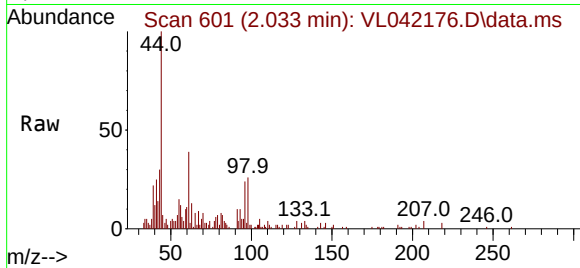




#18
1,1-Dichloroethene
Concen: 0.116 ppbv
RT: 2.033 min Scan# 600
Delta R.T. 0.003 min
Lab File: VL042176.D
Acq: 27 Mar 2025 10:32

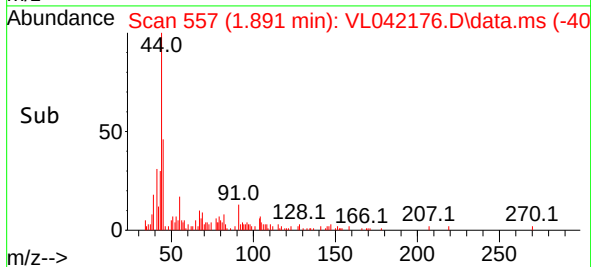
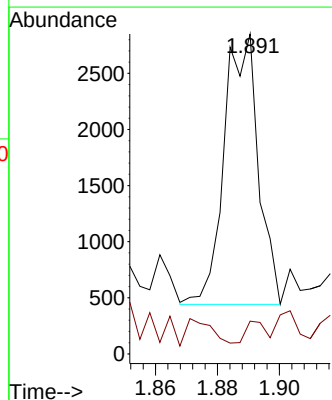
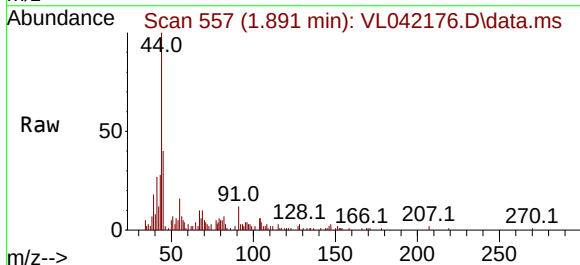
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

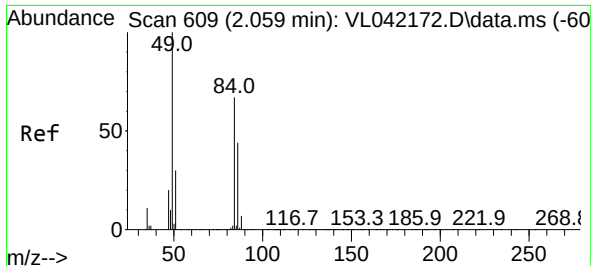
Tgt Ion: 96 Resp: 1155
Ion Ratio Lower Upper
96 100
61 179.9 167.6 251.4
98 112.6 53.5 80.3#



#19
Isopropyl Alcohol
Concen: 0.129 ppbv
RT: 1.891 min Scan# 557
Delta R.T. 0.006 min
Lab File: VL042176.D
Acq: 27 Mar 2025 10:32

Tgt Ion: 45 Resp: 1838
Ion Ratio Lower Upper
45 100
58 12.5 36.9 55.3#





#20

Methylene Chloride

Concen: 0.254 ppbv

RT: 2.059 min Scan# 609

Delta R.T. -0.000 min

Lab File: VL042176.D

Acq: 27 Mar 2025 10:32

Instrument :

MSVOA_1

ClientSampleId :

VSTDIC0.1

Tgt Ion: 84 Resp: 2388

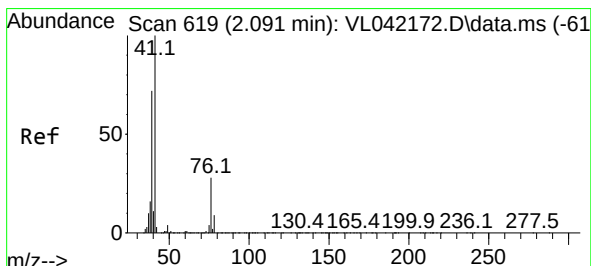
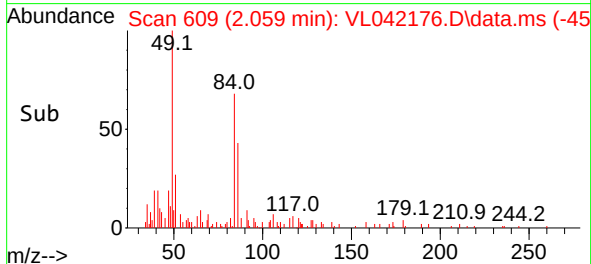
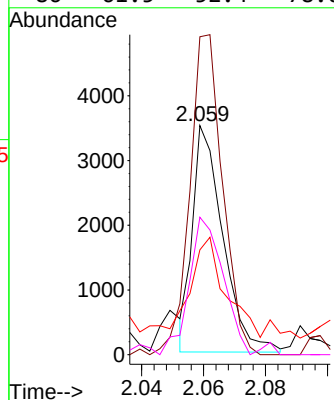
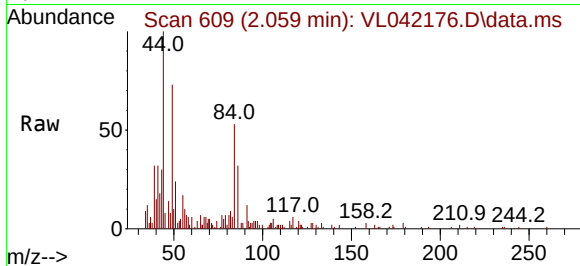
Ion Ratio Lower Upper

84 100

49 132.5 120.2 180.4

51 37.3 37.4 56.0#

86 61.5 52.4 78.6



#21

Allyl Chloride

Concen: 0.171 ppbv

RT: 2.091 min Scan# 619

Delta R.T. -0.000 min

Lab File: VL042176.D

Acq: 27 Mar 2025 10:32

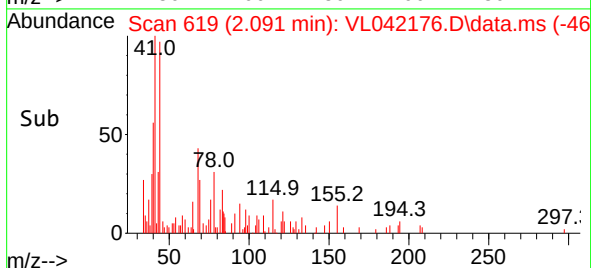
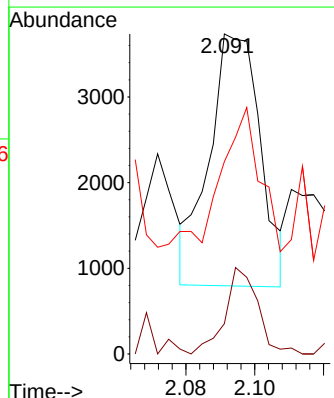
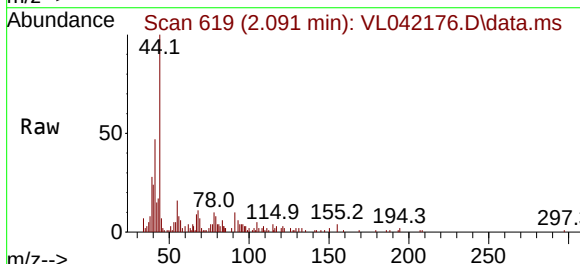
Tgt Ion: 41 Resp: 3040

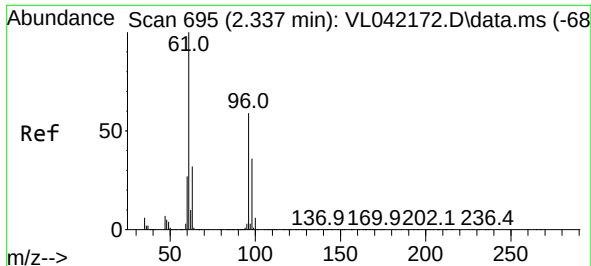
Ion Ratio Lower Upper

41 100

76 21.8 24.1 36.1#

39 98.7 61.1 91.7#

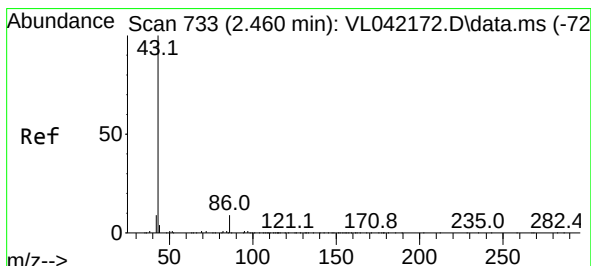
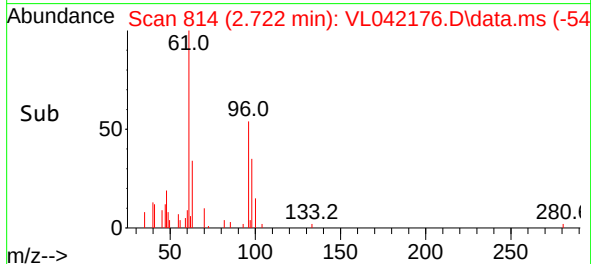
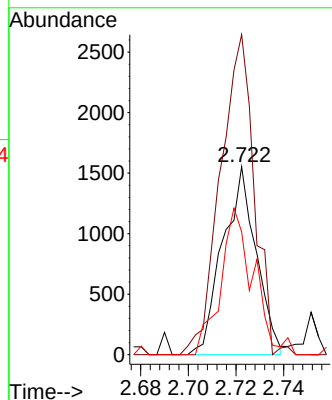
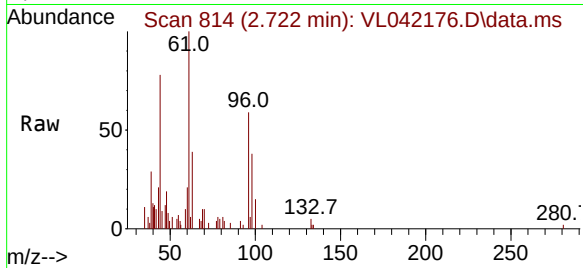




#22
trans-1,2-Dichloroethene
Concen: 0.130 ppbv
RT: 2.722 min Scan# 814
Delta R.T. 0.385 min
Lab File: VL042176.D
Acq: 27 Mar 2025 10:32

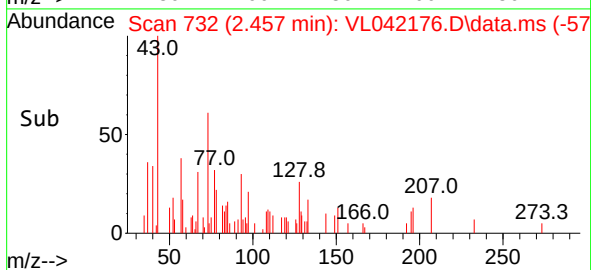
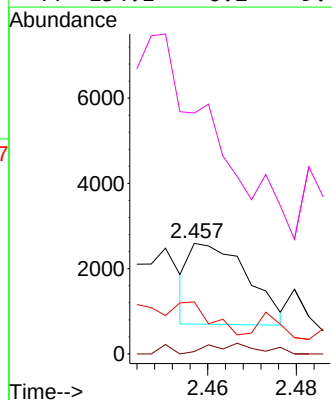
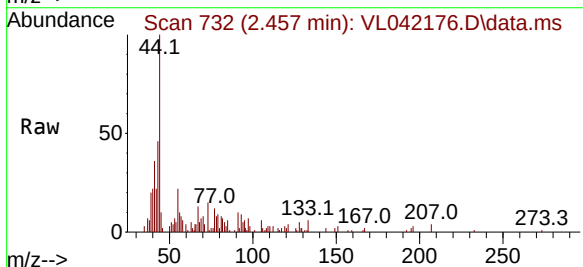
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

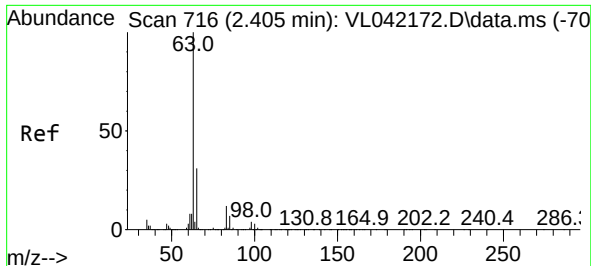
Tgt Ion: 96 Resp: 1512
Ion Ratio Lower Upper
96 100
61 170.3 136.6 204.8
98 65.4 49.4 74.2



#23
Vinyl Acetate
Concen: 0.166 ppbv
RT: 2.457 min Scan# 732
Delta R.T. -0.003 min
Lab File: VL042176.D
Acq: 27 Mar 2025 10:32

Tgt Ion: 43 Resp: 1746
Ion Ratio Lower Upper
43 100
86 3.5 5.5 8.3#
42 32.0 8.6 13.0#
44 134.1 6.2 9.4#

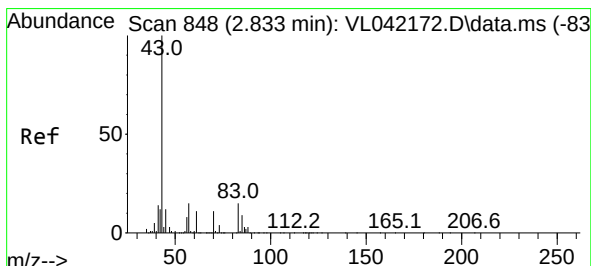
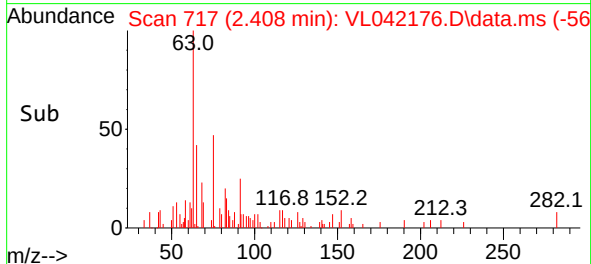
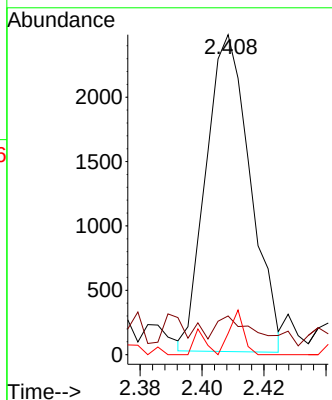
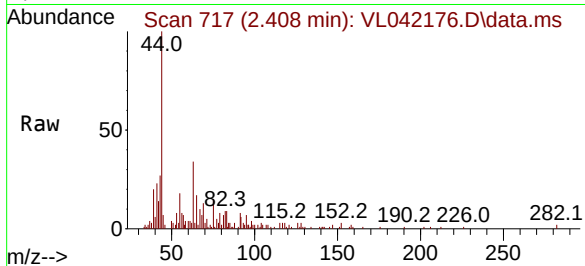




#24
1,1-Dichloroethane
Concen: 0.114 ppbv
RT: 2.408 min Scan# 716
Delta R.T. 0.003 min
Lab File: VL042176.D
Acq: 27 Mar 2025 10:32

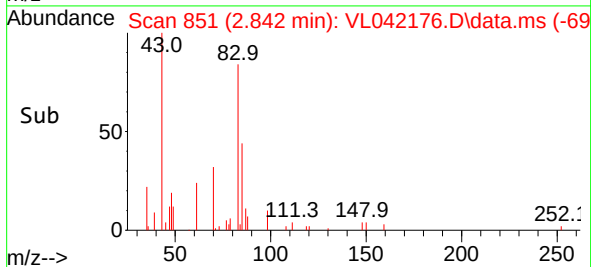
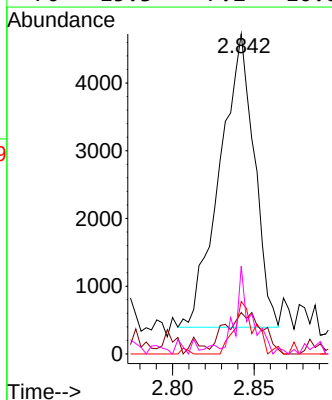
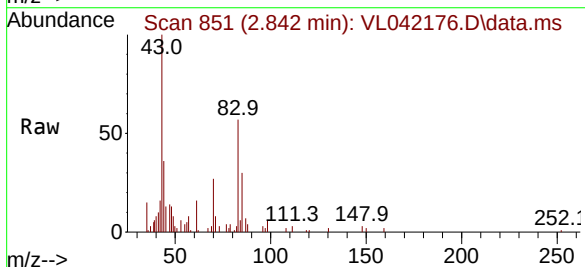
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

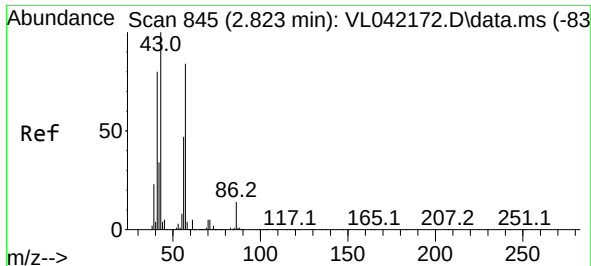
Tgt Ion:	63	Resp:	2446
Ion	Ratio	Lower	Upper
63	100		
98	6.3	2.3	6.8
100	6.9	1.6	4.7#



#25
Ethyl Acetate
Concen: 0.097 ppbv
RT: 2.842 min Scan# 851
Delta R.T. 0.010 min
Lab File: VL042176.D
Acq: 27 Mar 2025 10:32

Tgt Ion:	43	Resp:	6359
Ion	Ratio	Lower	Upper
43	100		
45	22.8	8.2	12.2#
61	11.2	7.3	10.9#
70	15.3	7.2	10.8#

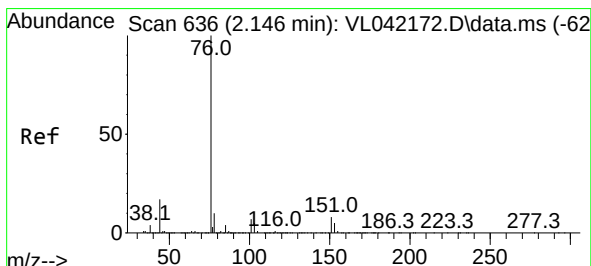
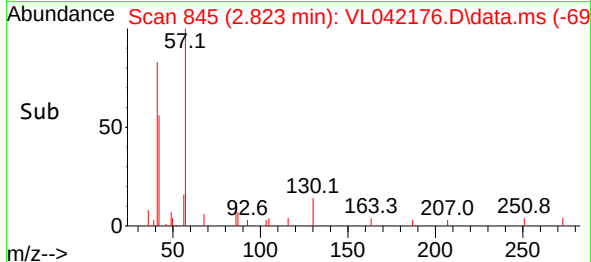
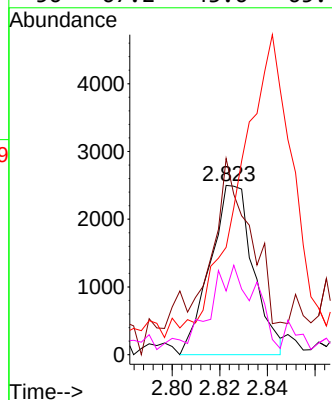
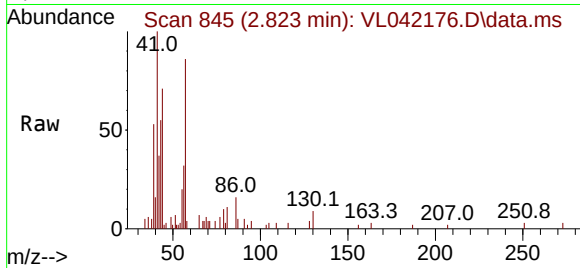




#26
Hexane
Concen: 0.123 ppbv
RT: 2.823 min Scan# 845
Delta R.T. -0.000 min
Lab File: VL042176.D
Acq: 27 Mar 2025 10:32

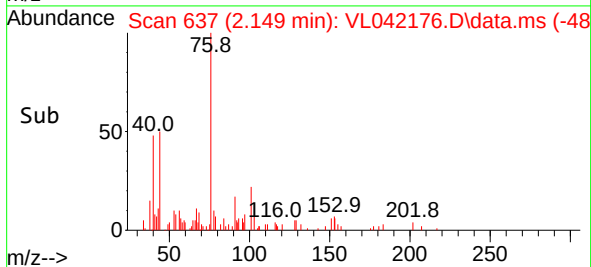
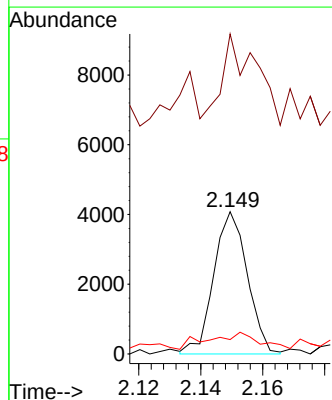
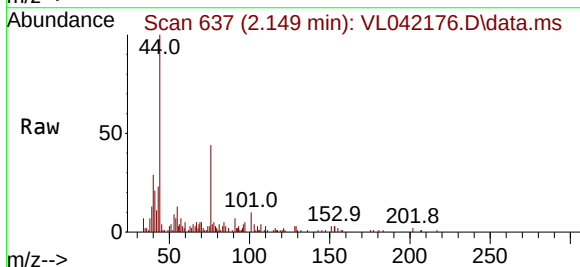
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

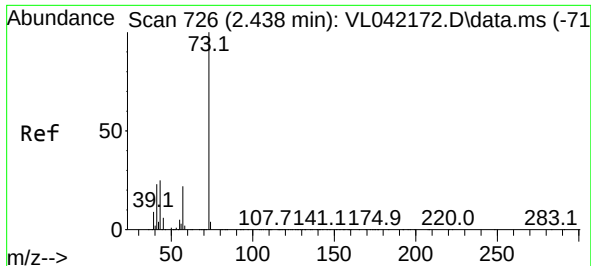
Tgt Ion:	57	Resp:	3126
Ion	Ratio	Lower	Upper
57	100		
41	96.0	76.6	114.8
43	0.0	207.8	311.8#
56	67.2	43.6	65.4#



#27
Carbon Disulfide
Concen: 0.113 ppbv
RT: 2.149 min Scan# 637
Delta R.T. 0.003 min
Lab File: VL042176.D
Acq: 27 Mar 2025 10:32

Tgt Ion:	76	Resp:	3075
Ion	Ratio	Lower	Upper
76	100		
44	436.3	14.7	22.1#
78	28.7	9.3	13.9#

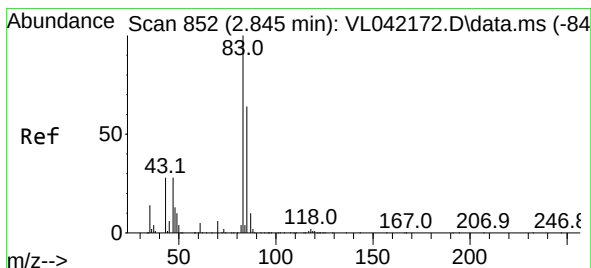
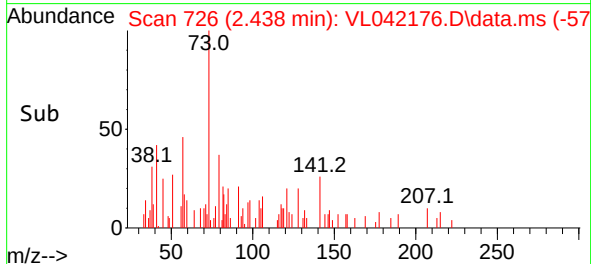
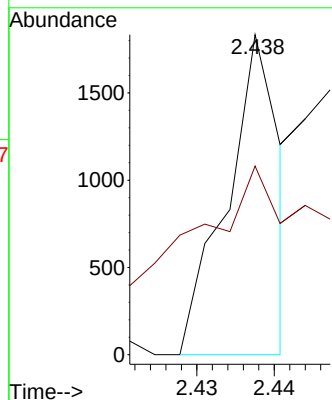
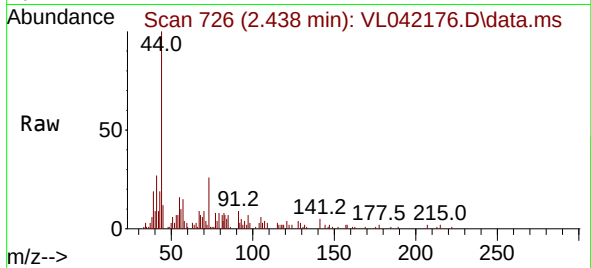




#28
Methyl tert-Butyl Ether
Concen: 0.055 ppbv
RT: 2.438 min Scan# 71
Delta R.T. -0.000 min
Lab File: VL042176.D
Acq: 27 Mar 2025 10:32

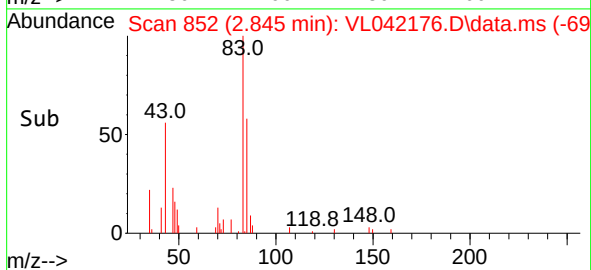
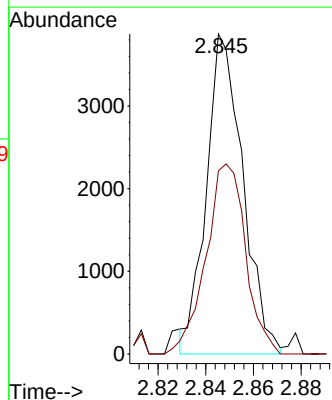
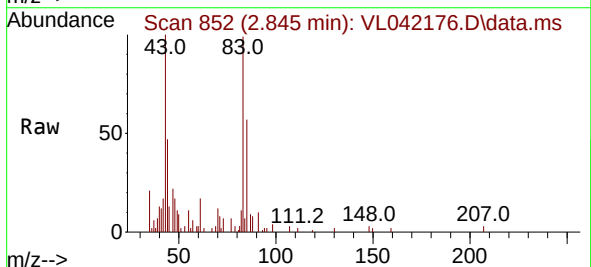
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

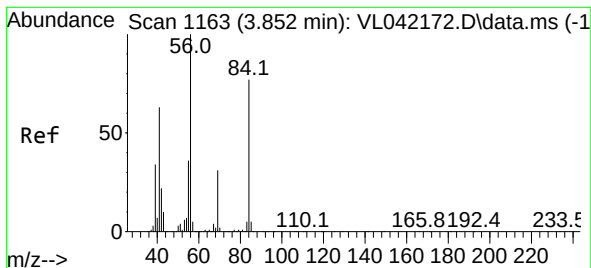
Tgt Ion: 73 Resp: 875
Ion Ratio Lower Upper
73 100
57 0.0 20.5 30.7#



#29
Chloroform
Concen: 0.111 ppbv
RT: 2.845 min Scan# 852
Delta R.T. -0.000 min
Lab File: VL042176.D
Acq: 27 Mar 2025 10:32

Tgt Ion: 83 Resp: 4120
Ion Ratio Lower Upper
83 100
85 58.4 51.4 77.2





#30

Cyclohexane

Concen: 0.051 ppbv

RT: 3.855 min Scan# 1164

Delta R.T. 0.003 min

Lab File: VL042176.D

Acq: 27 Mar 2025 10:32

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

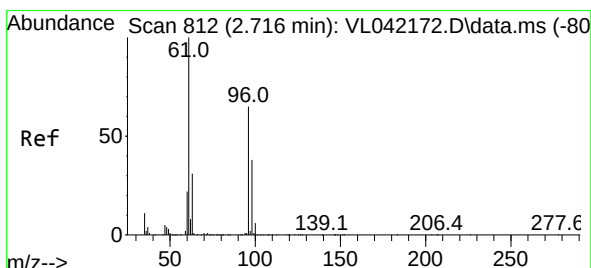
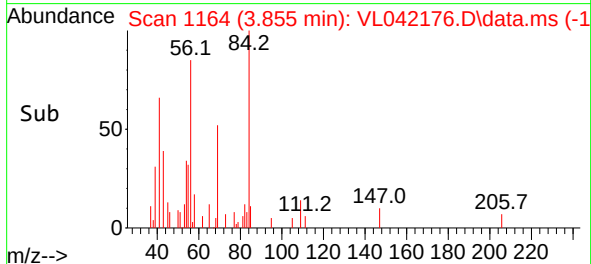
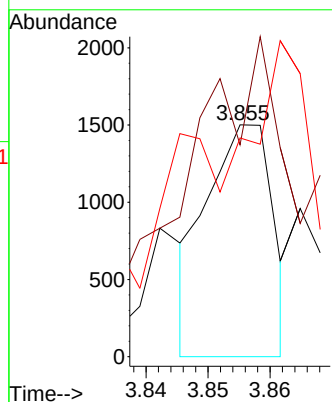
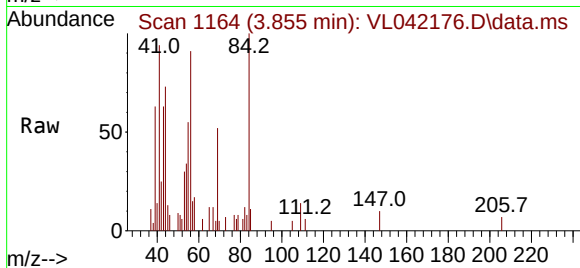
Tgt Ion: 84 Resp: 1113

Ion Ratio Lower Upper

84 100

56 0.0 102.8 154.2#

41 0.0 66.5 99.7#



#31

cis-1,2-Dichloroethene

Concen: 0.101 ppbv

RT: 2.722 min Scan# 814

Delta R.T. 0.006 min

Lab File: VL042176.D

Acq: 27 Mar 2025 10:32

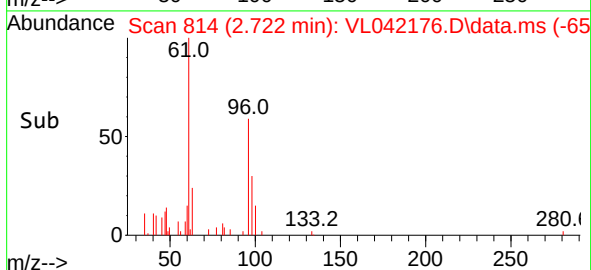
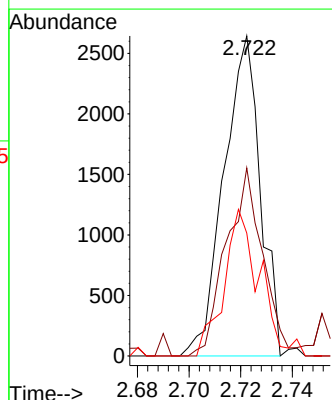
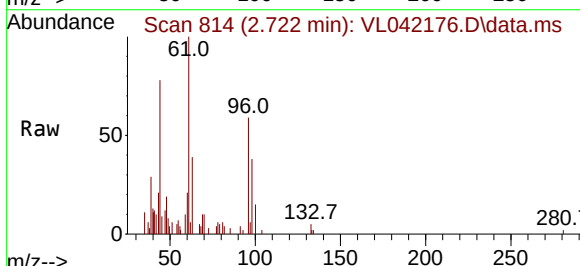
Tgt Ion: 61 Resp: 2587

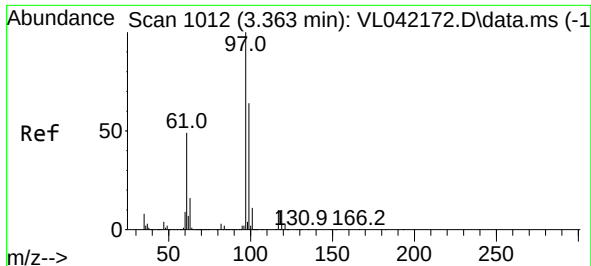
Ion Ratio Lower Upper

61 100

96 58.7 51.8 77.8

98 38.4 30.6 46.0

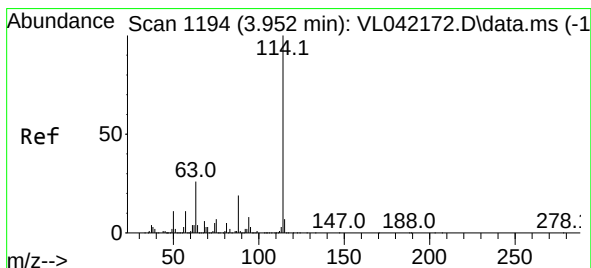
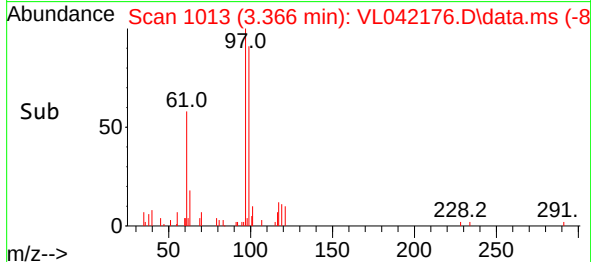
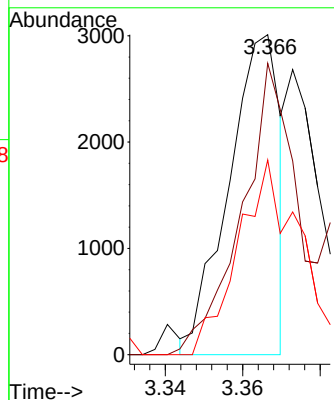
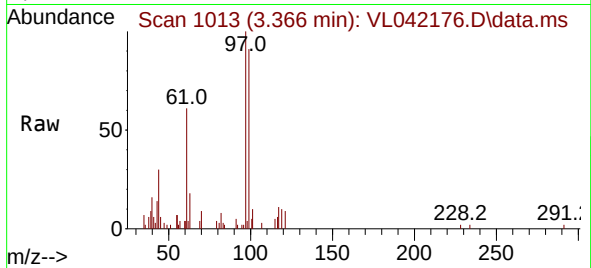




#32
 1,1,1-Trichloroethane
 Concen: 0.065 ppbv
 RT: 3.366 min Scan# 1013
 Delta R.T. 0.003 min
 Lab File: VL042176.D
 Acq: 27 Mar 2025 10:32

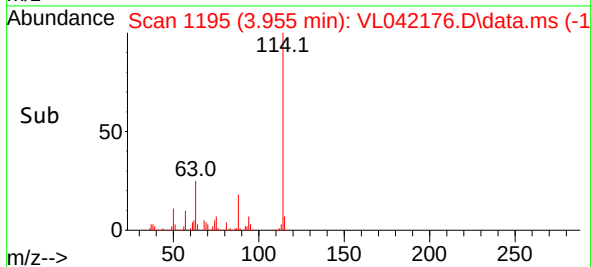
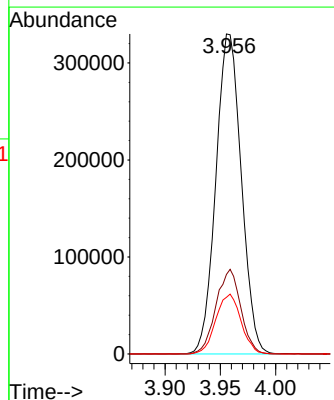
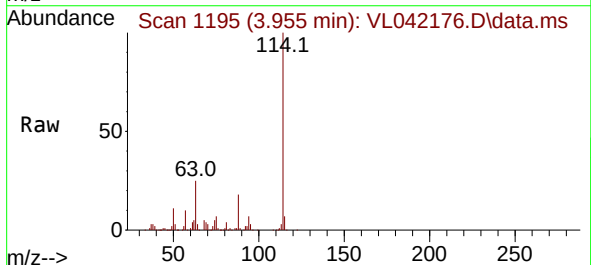
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC0.1

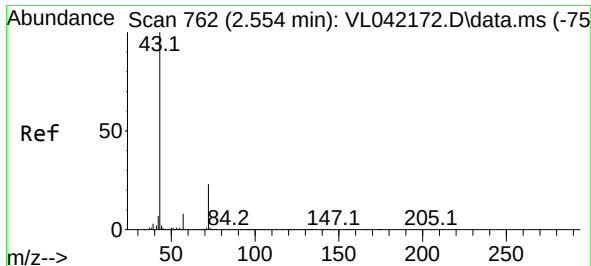
Tgt Ion: 97 Resp: 2773
 Ion Ratio Lower Upper
 97 100
 99 111.5 51.5 77.3#
 61 73.8 38.7 58.1#



#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 3.955 min Scan# 1195
 Delta R.T. 0.003 min
 Lab File: VL042176.D
 Acq: 27 Mar 2025 10:32

Tgt Ion: 114 Resp: 528028
 Ion Ratio Lower Upper
 114 100
 63 25.8 20.7 31.1
 88 18.5 15.0 22.4

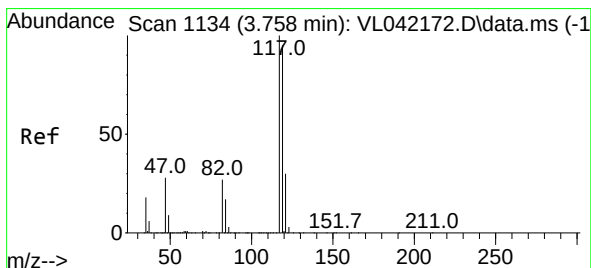
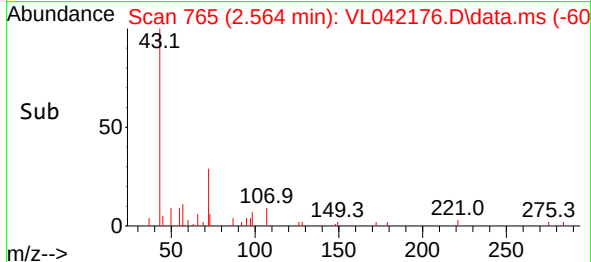
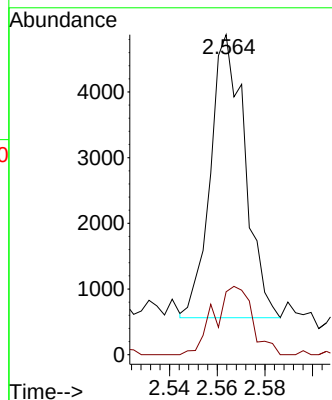
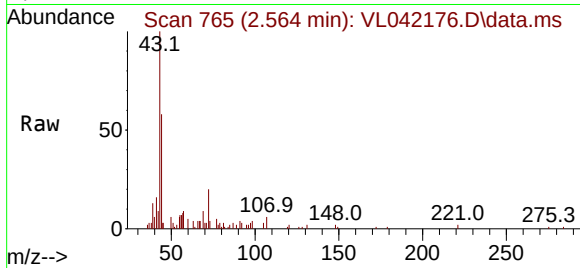




#34
2-Butanone
Concen: 0.113 ppbv
RT: 2.564 min Scan# 765
Delta R.T. 0.010 min
Lab File: VL042176.D
Acq: 27 Mar 2025 10:32

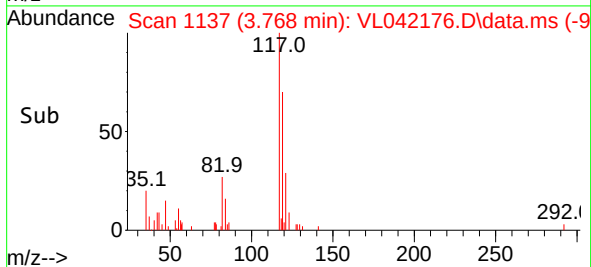
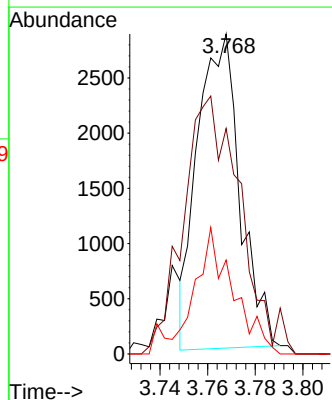
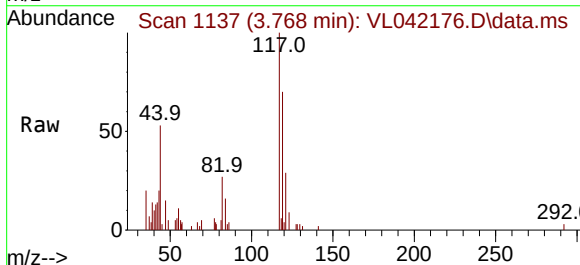
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

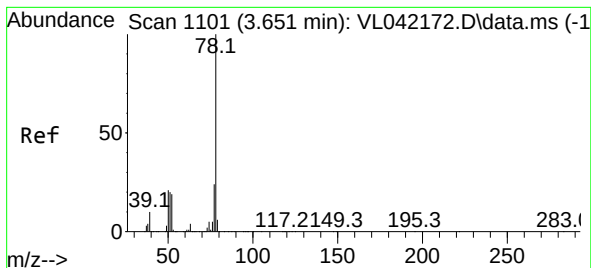
Tgt Ion: 43 Resp: 4331
Ion Ratio Lower Upper
43 100
72 27.0 18.2 27.2



#35
Carbon Tetrachloride
Concen: 0.087 ppbv
RT: 3.768 min Scan# 1137
Delta R.T. 0.010 min
Lab File: VL042176.D
Acq: 27 Mar 2025 10:32

Tgt Ion: 117 Resp: 3523
Ion Ratio Lower Upper
117 100
119 57.7 76.2 114.2#
121 30.1 24.2 36.4





#36

Benzene

Concen: 0.096 ppbv

RT: 3.658 min Scan# 1103

Delta R.T. 0.006 min

Lab File: VL042176.D

Acq: 27 Mar 2025 10:32

Instrument :

MSVOA_1

ClientSampleId :

VSTDIC0.1

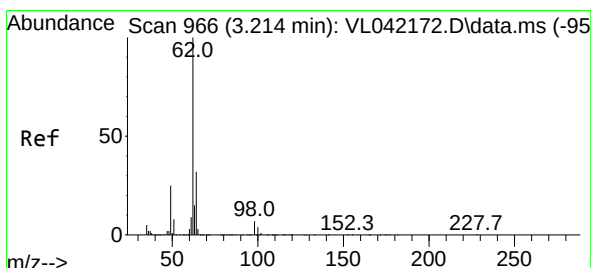
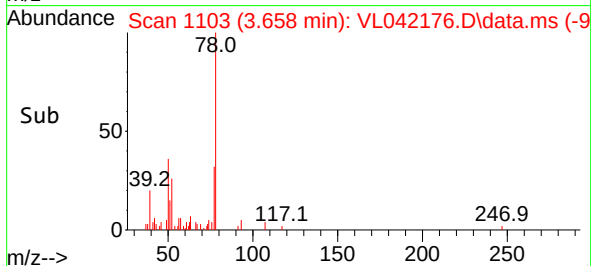
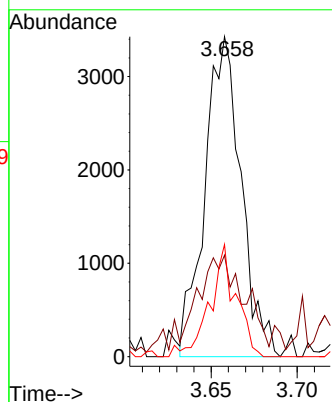
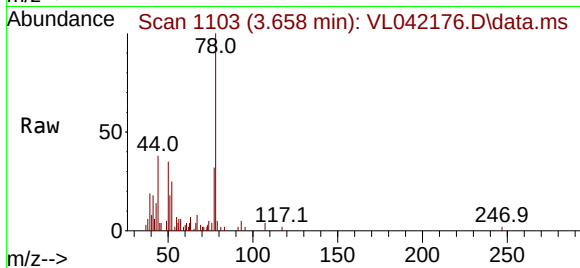
Tgt Ion: 78 Resp: 5031

Ion Ratio Lower Upper

78 100

77 27.2 19.1 28.7

50 35.0 16.6 24.8#



#37

1,2-Dichloroethane

Concen: 0.098 ppbv

RT: 3.218 min Scan# 967

Delta R.T. 0.003 min

Lab File: VL042176.D

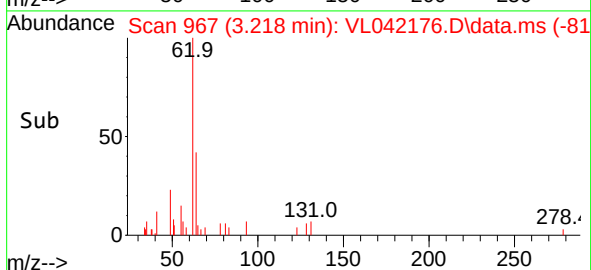
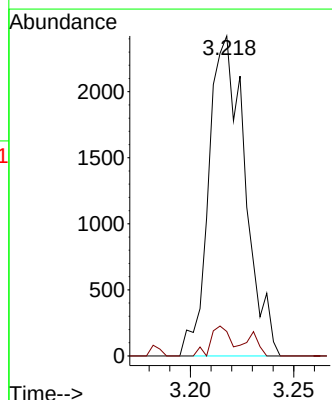
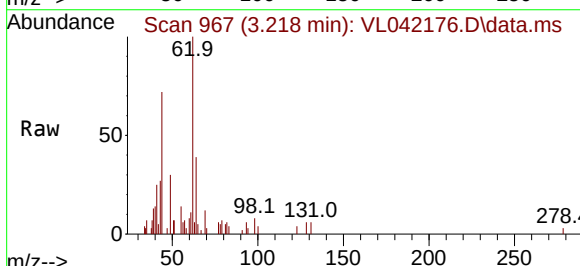
Acq: 27 Mar 2025 10:32

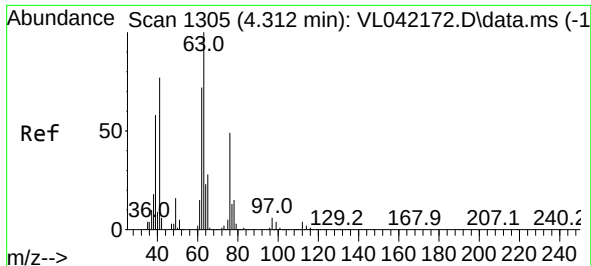
Tgt Ion: 62 Resp: 2942

Ion Ratio Lower Upper

62 100

98 7.7 5.4 8.2





#39

1,2-Dichloropropane

Concen: 7.123 ppbv

RT: 3.959 min Scan# 1196

Delta R.T. -0.353 min

Lab File: VL042176.D

Acq: 27 Mar 2025 10:32

Instrument :

MSVOA_1

ClientSampleId :

VSTDIC0.1

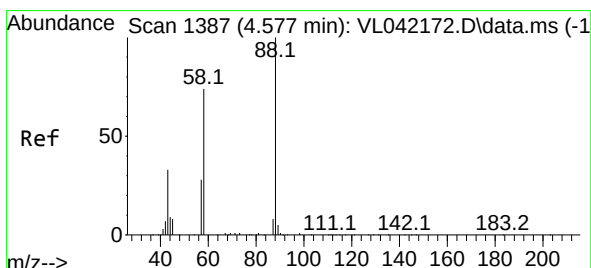
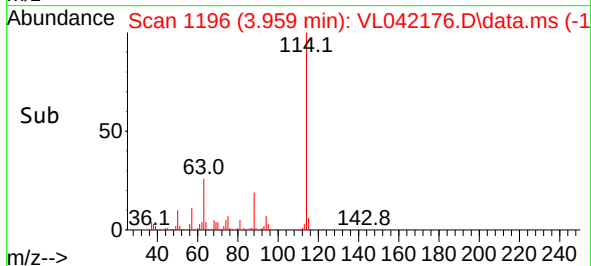
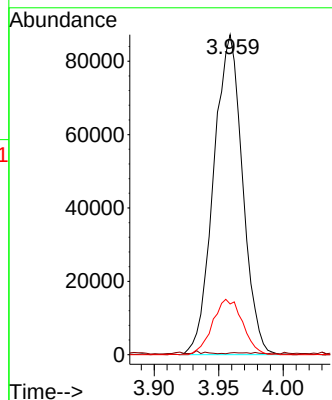
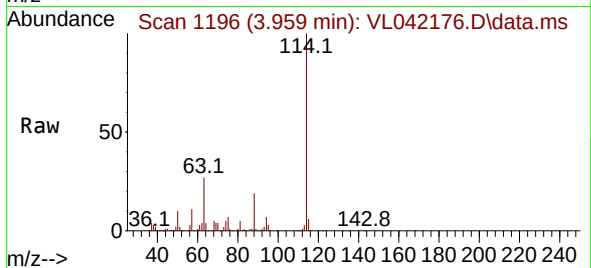
Tgt Ion: 63 Resp: 135792

Ion Ratio Lower Upper

63 100

41 0.3 61.7 92.5#

62 15.9 57.6 86.4#



#40

1,4-Dioxane

Concen: 0.085 ppbv

RT: 4.616 min Scan# 1399

Delta R.T. 0.039 min

Lab File: VL042176.D

Acq: 27 Mar 2025 10:32

Tgt Ion: 88 Resp: 843

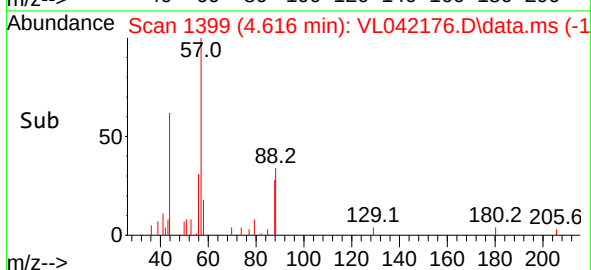
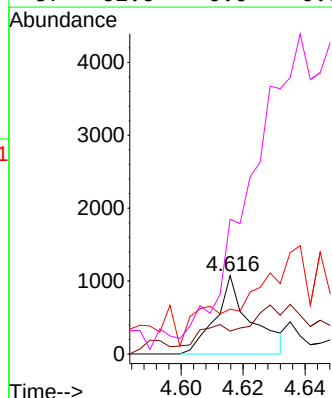
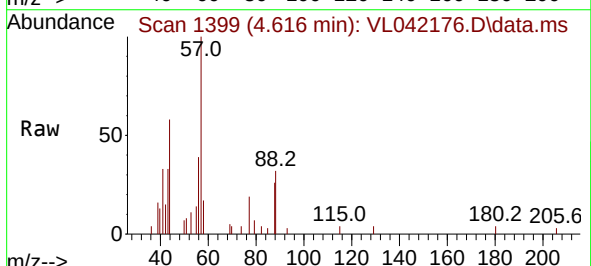
Ion Ratio Lower Upper

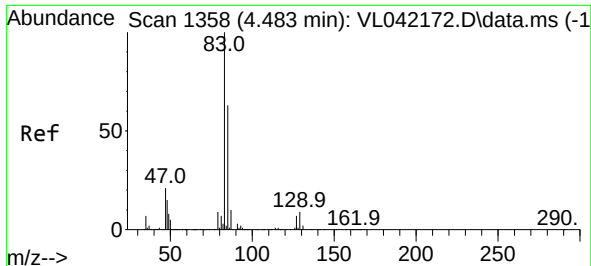
88 100

58 0.0 62.7 94.1#

43 47.9 23.0 34.4#

57 62.6 0.0 0.0#





#42

Bromodichloromethane

Concen: 0.099 ppbv

RT: 4.490 min Scan# 11

Delta R.T. 0.006 min

Lab File: VL042176.D

Acq: 27 Mar 2025 10:32

Instrument :

MSVOA_1

ClientSampleId :

VSTDIC0.1

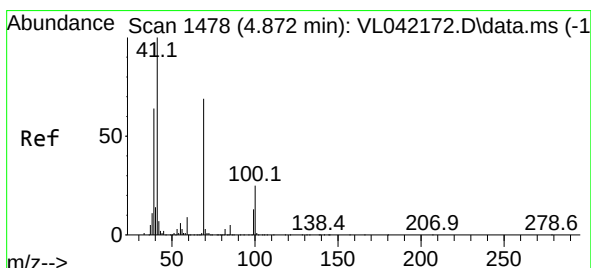
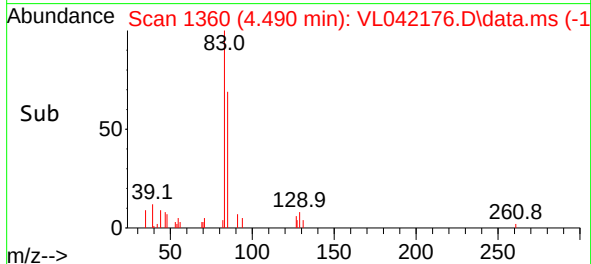
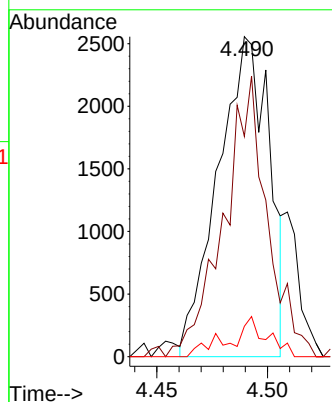
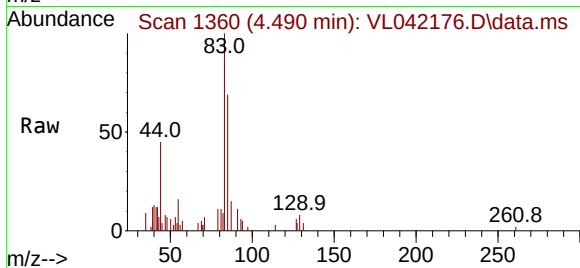
Tgt Ion: 83 Resp: 4103

Ion Ratio Lower Upper

83 100

85 67.5 50.5 75.7

127 9.8 5.9 8.9#



#43

Methyl Methacrylate

Concen: 0.042 ppbv

RT: 4.878 min Scan# 1480

Delta R.T. 0.006 min

Lab File: VL042176.D

Acq: 27 Mar 2025 10:32

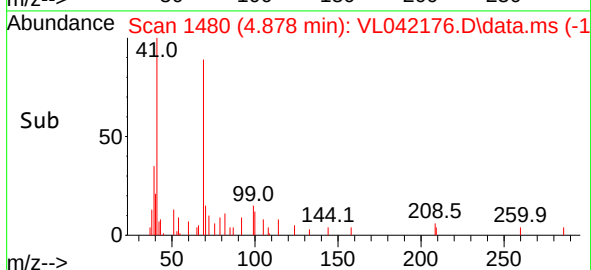
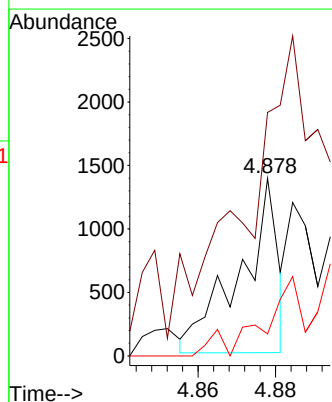
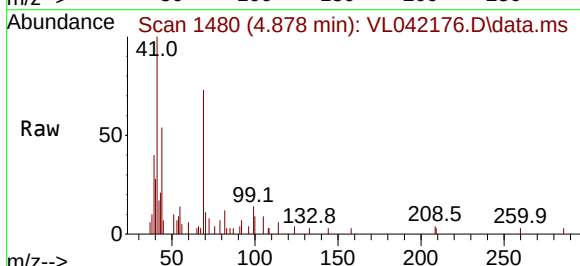
Tgt Ion: 69 Resp: 930

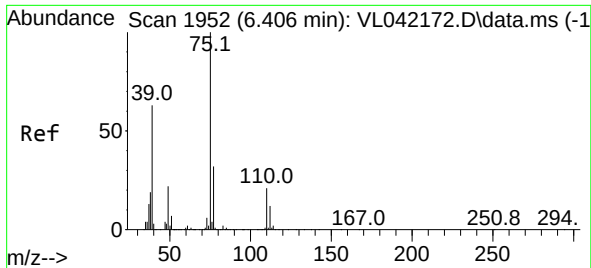
Ion Ratio Lower Upper

69 100

41 0.0 123.8 185.6#

100 0.0 28.4 42.6#

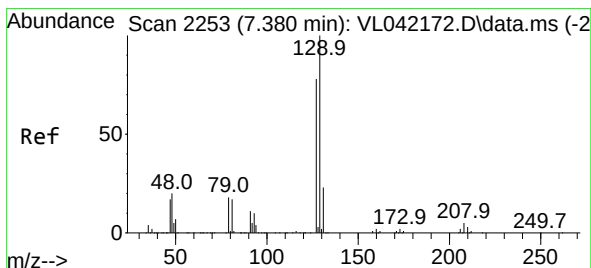
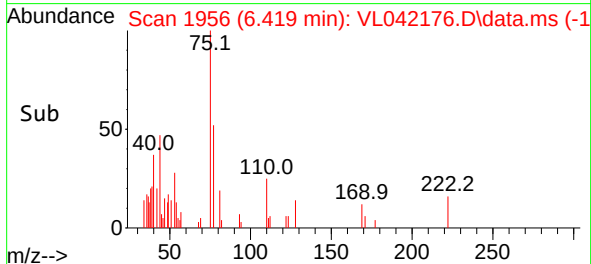
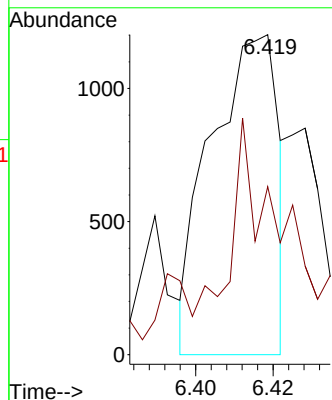
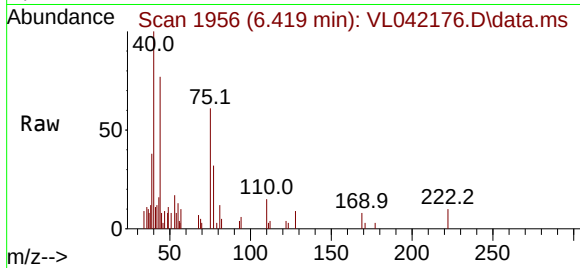




#45
t-1,3-Dichloropropene
Concen: 0.061 ppbv
RT: 6.419 min Scan# 1956
Delta R.T. 0.013 min
Lab File: VL042176.D
Acq: 27 Mar 2025 10:32

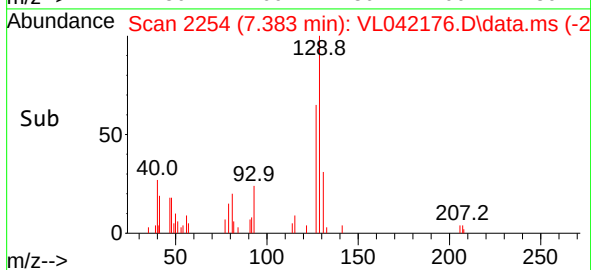
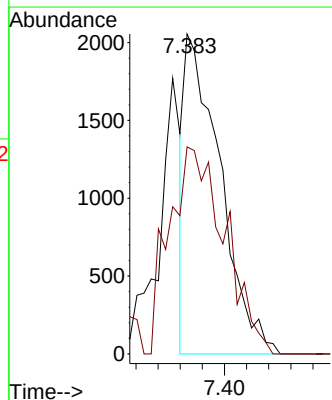
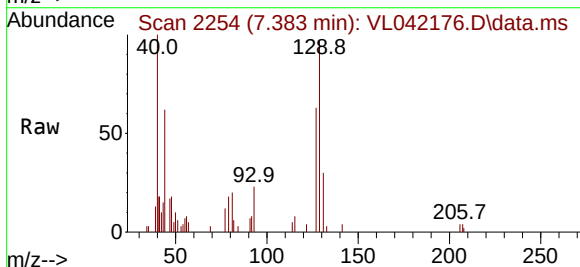
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

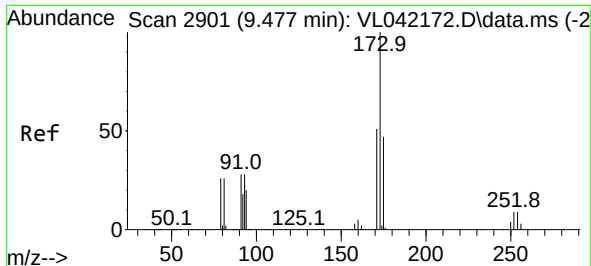
Tgt Ion: 75 Resp: 1449
Ion Ratio Lower Upper
75 100
77 52.5 26.0 39.0#



#48
Dibromochloromethane
Concen: 0.067 ppbv
RT: 7.383 min Scan# 2254
Delta R.T. 0.003 min
Lab File: VL042176.D
Acq: 27 Mar 2025 10:32

Tgt Ion: 129 Resp: 2284
Ion Ratio Lower Upper
129 100
127 106.0 39.1 117.2

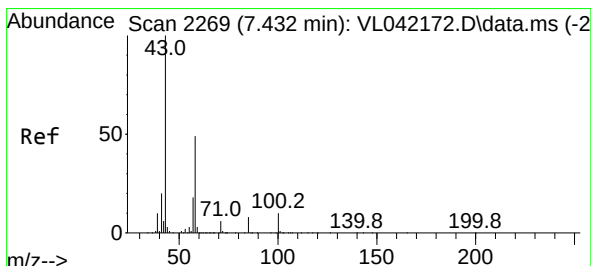
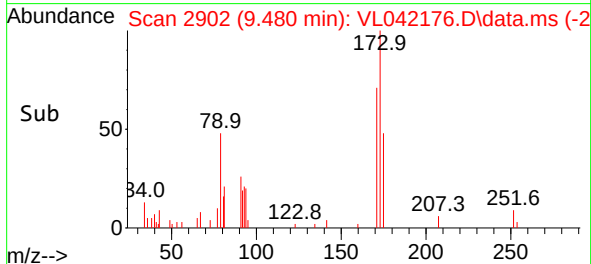
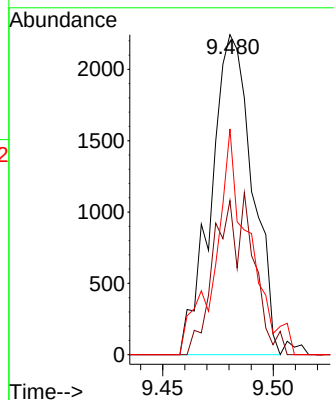
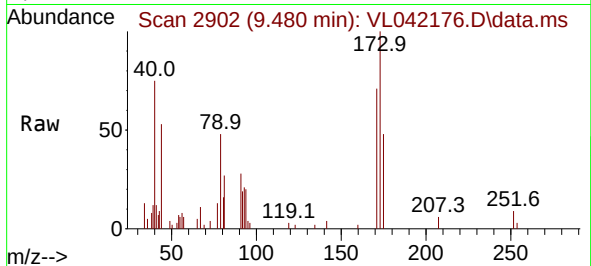




#49
Bromoform
Concen: 0.095 ppbv
RT: 9.480 min Scan# 2901
Delta R.T. 0.003 min
Lab File: VL042176.D
Acq: 27 Mar 2025 10:32

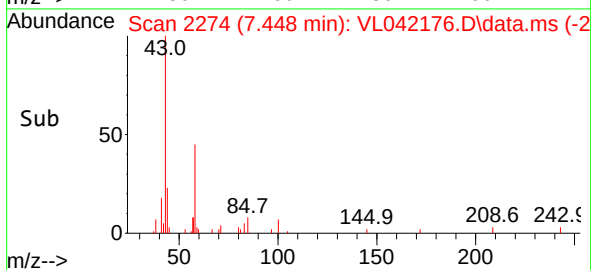
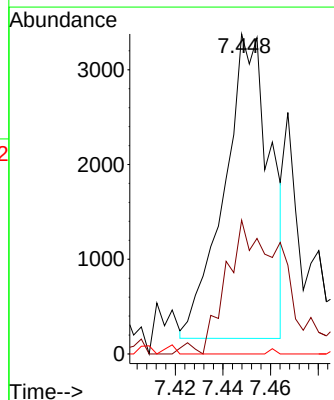
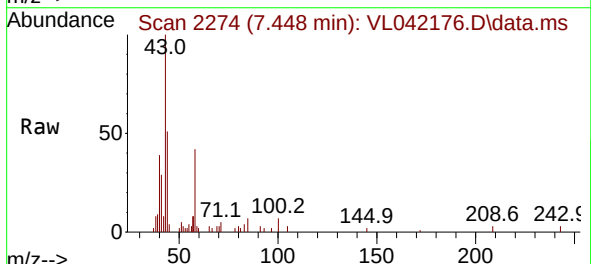
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

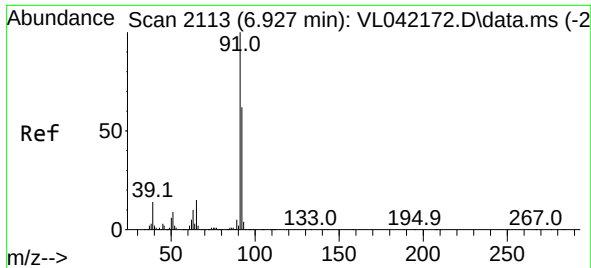
Tgt Ion:	173	Resp:	2928
Ion	Ratio	Lower	Upper
173	100		
175	46.4	38.6	57.8
171	58.1	41.8	62.6



#51
2-Hexanone
Concen: 0.085 ppbv
RT: 7.448 min Scan# 2274
Delta R.T. 0.016 min
Lab File: VL042176.D
Acq: 27 Mar 2025 10:32

Tgt Ion:	43	Resp:	4284
Ion	Ratio	Lower	Upper
43	100		
58	58.3	39.7	59.5
98	0.0	0.1	0.1

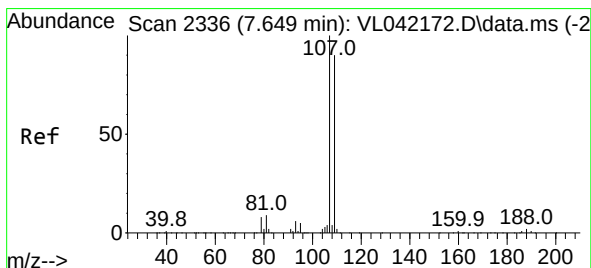
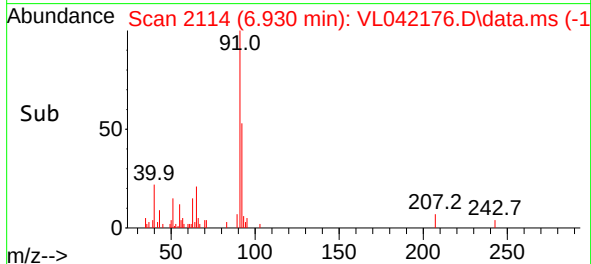
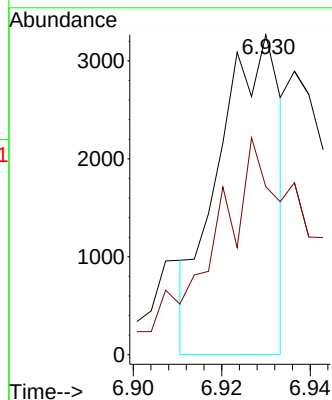
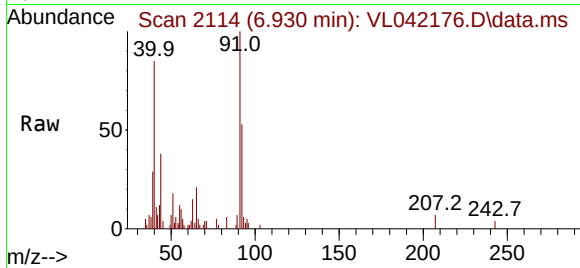




#53
Toluene
Concen: 0.051 ppbv
RT: 6.930 min Scan# 2114
Delta R.T. 0.003 min
Lab File: VL042176.D
Acq: 27 Mar 2025 10:32

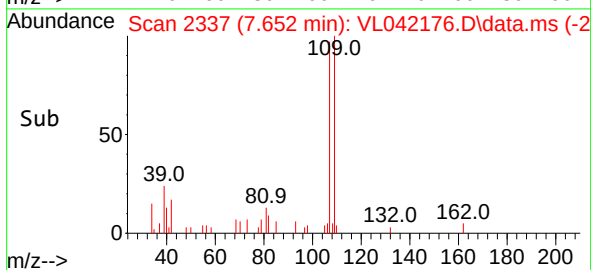
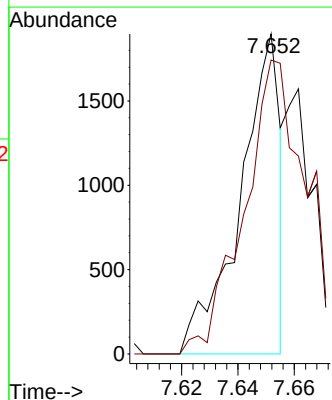
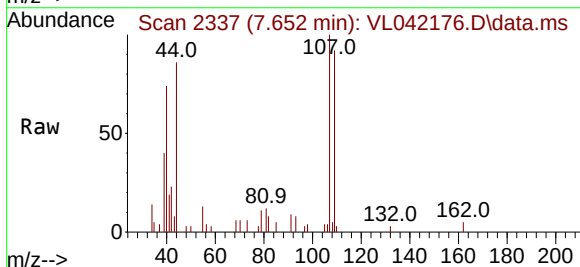
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

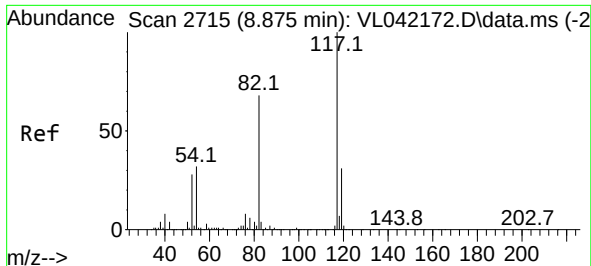
Tgt Ion: 91 Resp: 3144
Ion Ratio Lower Upper
91 100
92 117.7 48.4 72.6#



#54
1,2-Dibromoethane
Concen: 0.066 ppbv
RT: 7.652 min Scan# 2337
Delta R.T. 0.003 min
Lab File: VL042176.D
Acq: 27 Mar 2025 10:32

Tgt Ion: 107 Resp: 1864
Ion Ratio Lower Upper
107 100
109 91.8 72.2 108.4

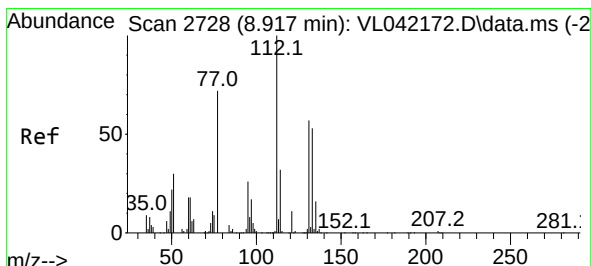
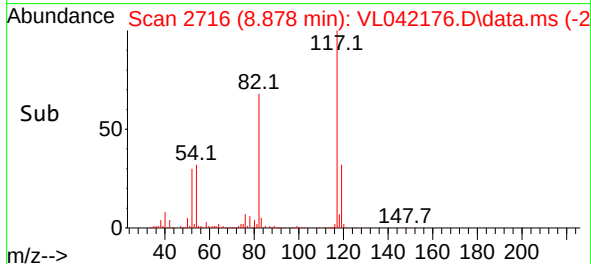
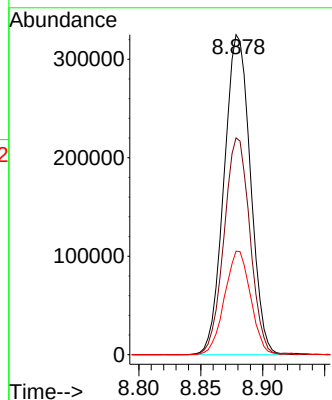
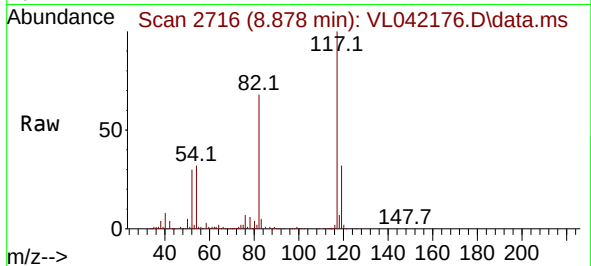




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.878 min Scan# 21
Delta R.T. 0.003 min
Lab File: VL042176.D
Acq: 27 Mar 2025 10:32

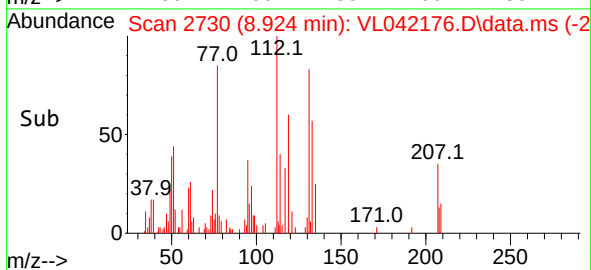
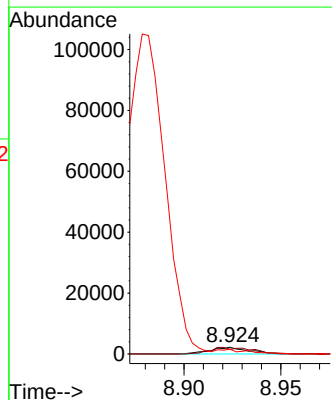
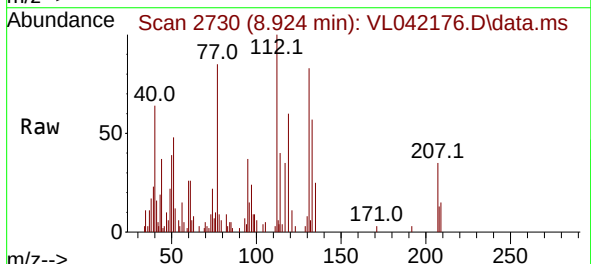
Instrument :
MSVOA_1
ClientSampleId :
VSTDICC0.1

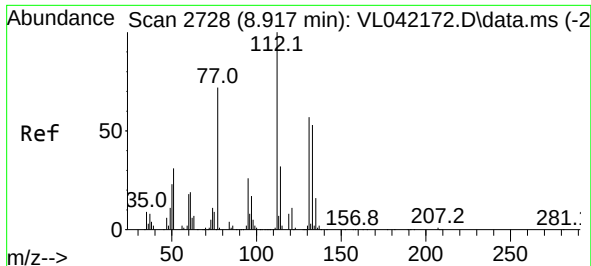
Tgt Ion:117 Resp: 481506
Ion Ratio Lower Upper
117 100
82 66.7 55.8 83.6
119 32.3 25.5 38.3



#56
1,1,1,2-Tetrachloroethane
Concen: 0.112 ppbv
RT: 8.924 min Scan# 2730
Delta R.T. 0.006 min
Lab File: VL042176.D
Acq: 27 Mar 2025 10:32

Tgt Ion:131 Resp: 2963
Ion Ratio Lower Upper
131 100
133 115.5 76.6 114.8#
119 5254.7 49.8 74.6#

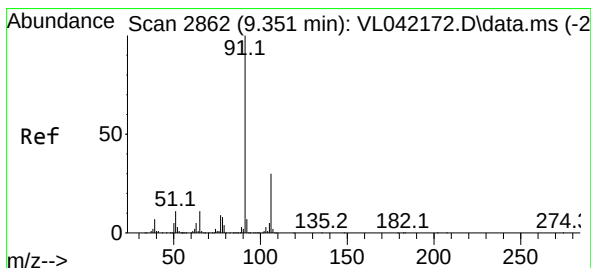
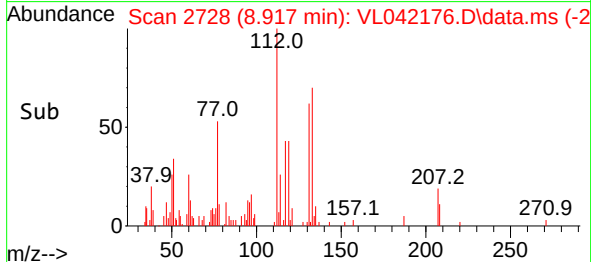
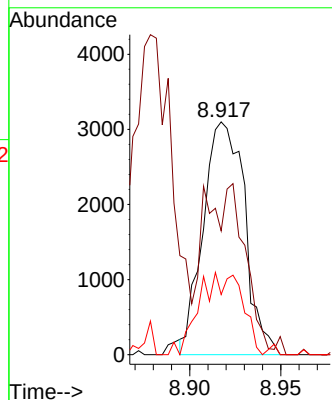
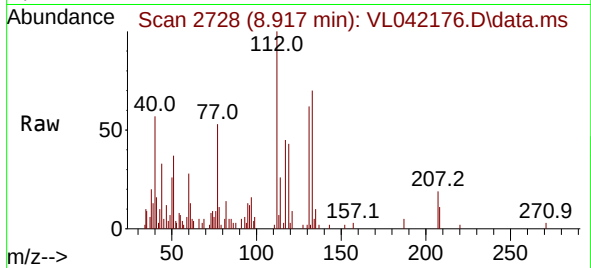




#57
Chlorobenzene
Concen: 0.107 ppbv
RT: 8.917 min Scan# 21
Delta R.T. -0.000 min
Lab File: VL042176.D
Acq: 27 Mar 2025 10:32

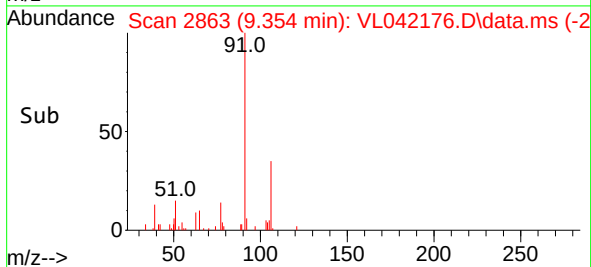
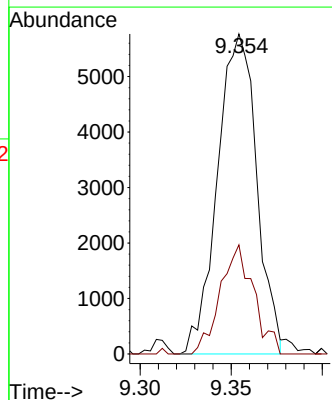
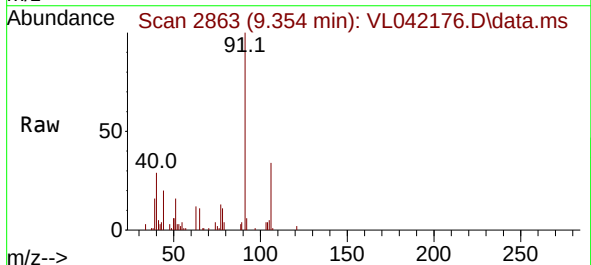
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

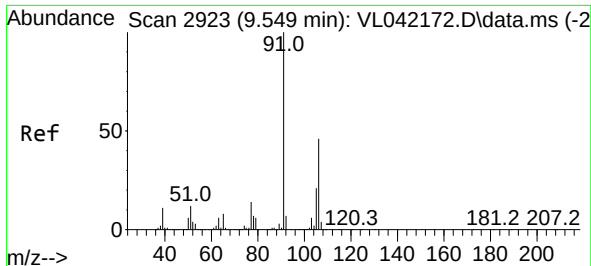
Tgt Ion:112 Resp: 4904
Ion Ratio Lower Upper
112 100
77 45.4 58.2 87.2#
114 25.8 29.1 35.5#



#58
Ethyl Benzene
Concen: 0.101 ppbv
RT: 9.354 min Scan# 2863
Delta R.T. 0.003 min
Lab File: VL042176.D
Acq: 27 Mar 2025 10:32

Tgt Ion: 91 Resp: 8648
Ion Ratio Lower Upper
91 100
106 34.1 24.2 36.2





#59

m/p-Xylene

Concen: 0.088 ppbv

RT: 9.545 min Scan# 2923

Delta R.T. -0.003 min

Lab File: VL042176.D

Acq: 27 Mar 2025 10:32

Instrument :

MSVOA_1

ClientSampleId :

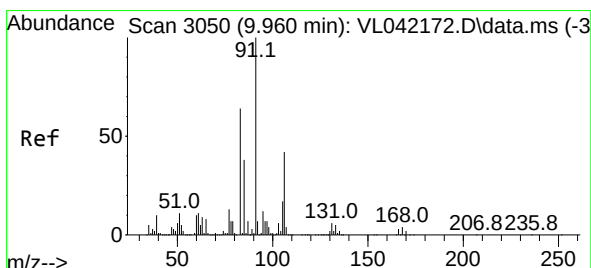
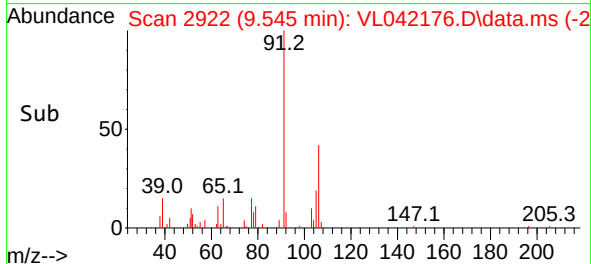
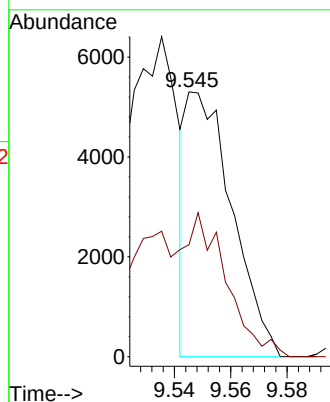
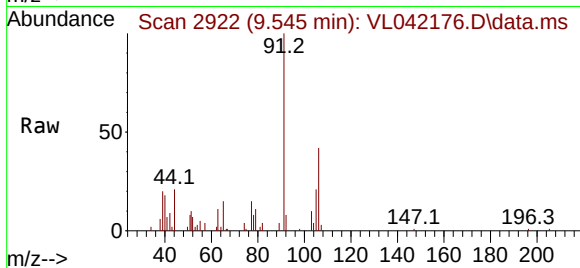
VSTDICC0.1

Tgt Ion: 91 Resp: 6005

Ion Ratio Lower Upper

91 100

106 103.4 36.4 54.6#



#60

o-Xylene

Concen: 0.118 ppbv

RT: 9.959 min Scan# 3050

Delta R.T. -0.000 min

Lab File: VL042176.D

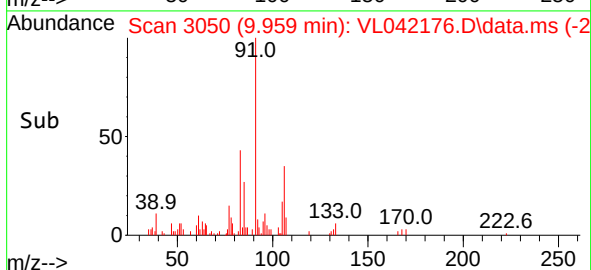
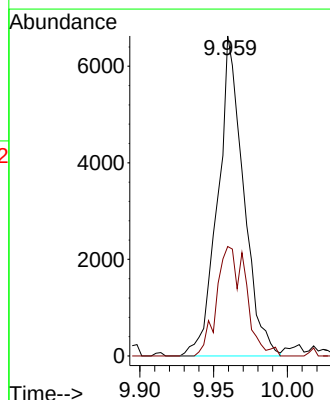
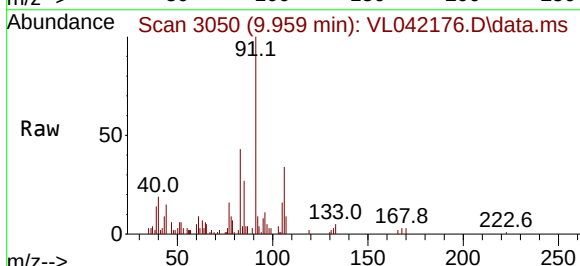
Acq: 27 Mar 2025 10:32

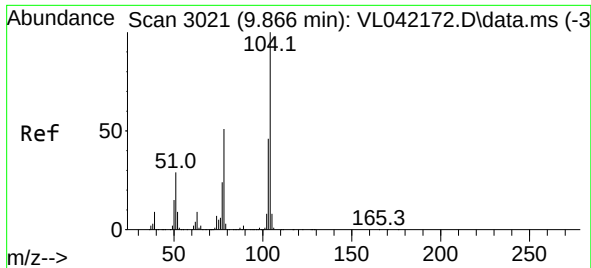
Tgt Ion: 91 Resp: 8048

Ion Ratio Lower Upper

91 100

106 39.0 20.8 62.5





#61

Styrene

Concen: 0.051 ppbv

RT: 9.872 min Scan# 3021

Delta R.T. 0.006 min

Lab File: VL042176.D

Acq: 27 Mar 2025 10:32

Instrument :

MSVOA_1

ClientSampleId :

VSTDIC0.1

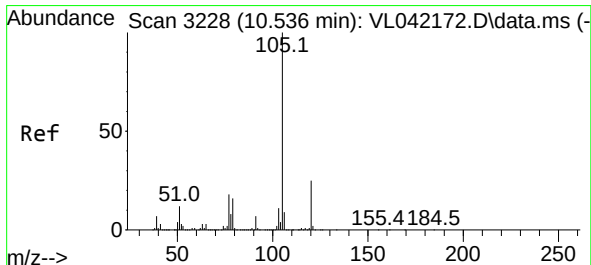
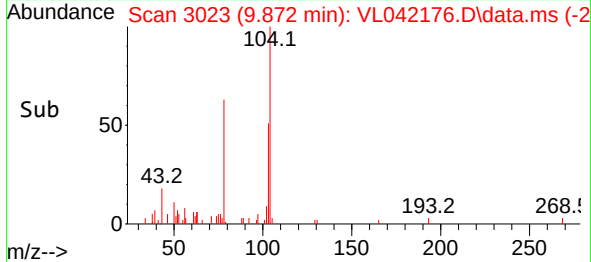
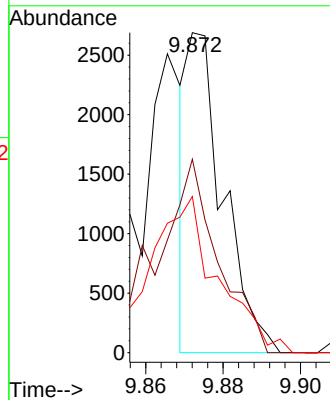
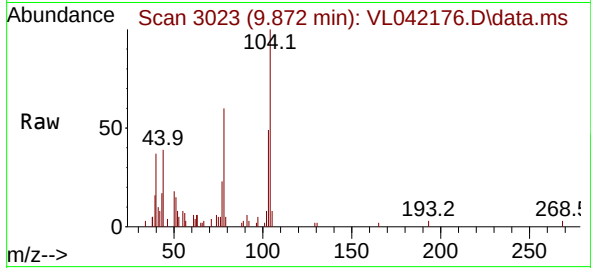
Tgt Ion:104 Resp: 1723

Ion Ratio Lower Upper

104 100

78 105.9 41.8 62.6#

103 95.0 37.0 55.4#



#62

Isopropylbenzene

Concen: 0.101 ppbv

RT: 10.536 min Scan# 3228

Delta R.T. -0.000 min

Lab File: VL042176.D

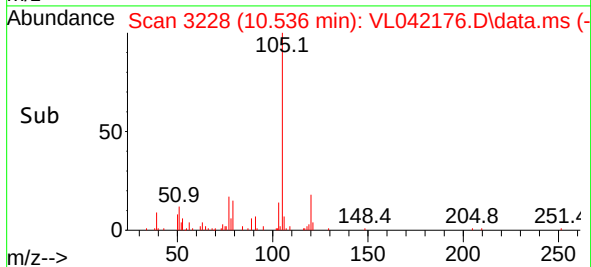
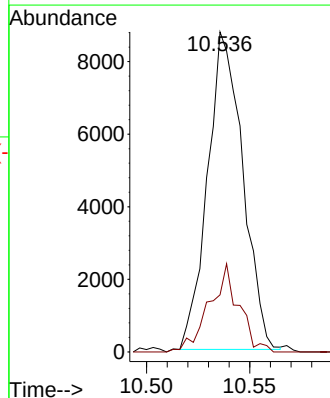
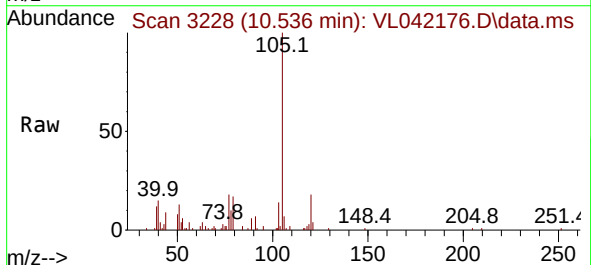
Acq: 27 Mar 2025 10:32

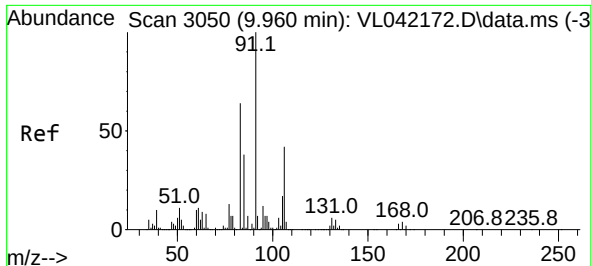
Tgt Ion:105 Resp: 10359

Ion Ratio Lower Upper

105 100

120 23.2 19.9 29.9





#63

1,1,2-Tetrachloroethane

Concen: 0.046 ppbv

RT: 9.959 min Scan# 3050

Delta R.T. -0.000 min

Lab File: VL042176.D

Acq: 27 Mar 2025 10:32

Instrument :

MSVOA_1

ClientSampleId :

VSTDIC0.1

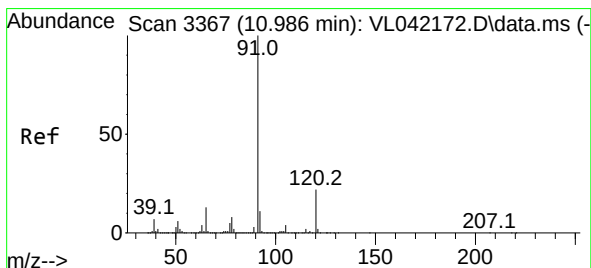
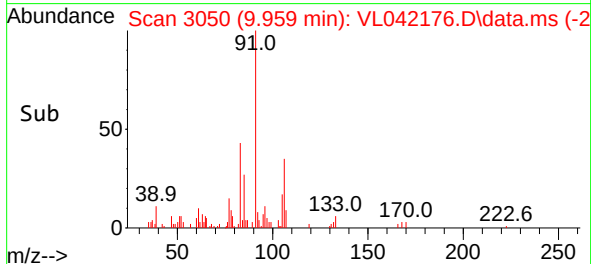
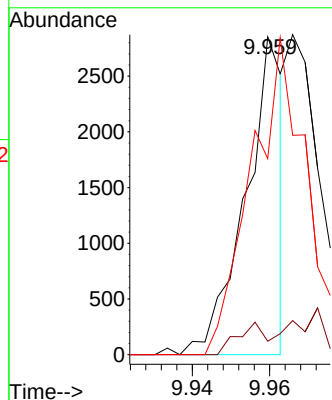
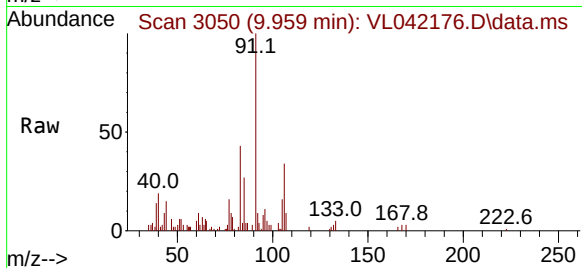
Tgt Ion: 83 Resp: 1910

Ion Ratio Lower Upper

83 100

131 0.0 4.8 14.4#

85 0.0 32.5 97.5#



#64

n-propylbenzene

Concen: 0.090 ppbv

RT: 10.989 min Scan# 3368

Delta R.T. 0.003 min

Lab File: VL042176.D

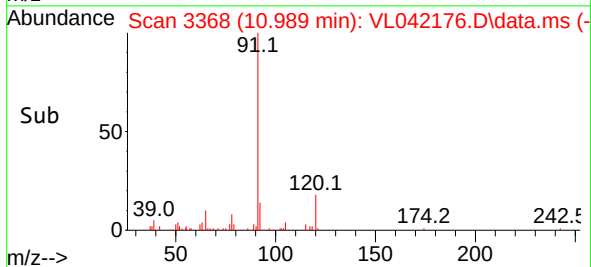
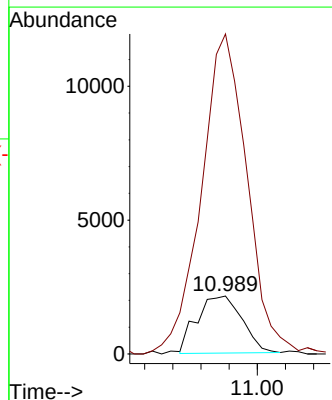
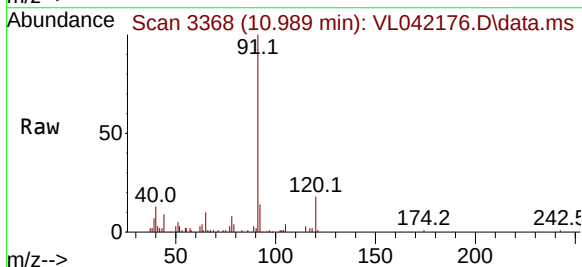
Acq: 27 Mar 2025 10:32

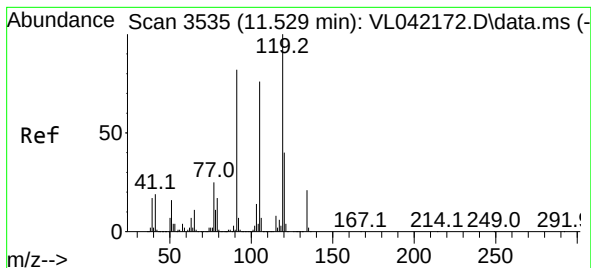
Tgt Ion: 120 Resp: 2375

Ion Ratio Lower Upper

120 100

91 572.3 376.9 565.3#





#65

tert-Butylbenzene

Concen: 0.099 ppbv

RT: 11.526 min Scan# 3534

Delta R.T. -0.003 min

Lab File: VL042176.D

Acq: 27 Mar 2025 10:32

Instrument :

MSVOA_1

ClientSampleId :

VSTDIC0.1

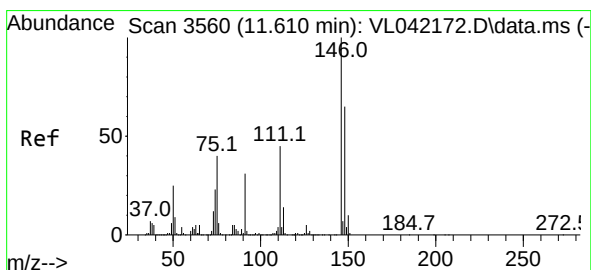
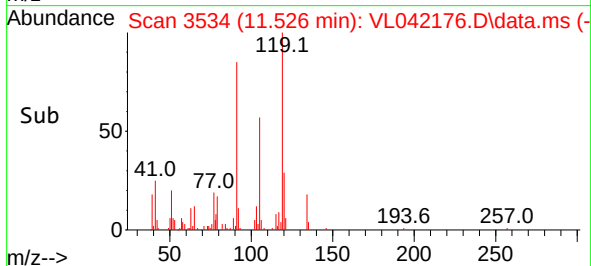
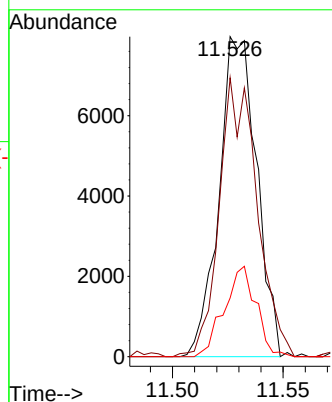
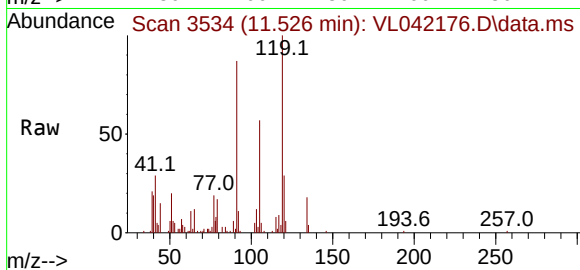
Tgt Ion:119 Resp: 9418

Ion Ratio Lower Upper

119 100

91 87.8 66.0 99.0

134 23.9 16.7 25.1



#66

Benzyl Chloride

Concen: 0.084 ppbv

RT: 11.617 min Scan# 3562

Delta R.T. 0.006 min

Lab File: VL042176.D

Acq: 27 Mar 2025 10:32

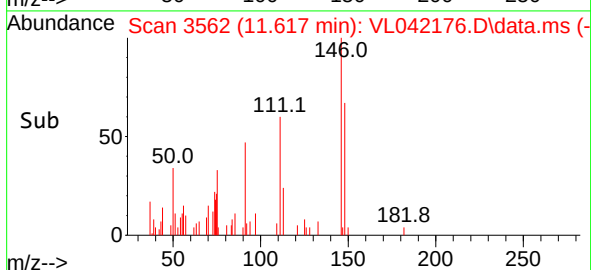
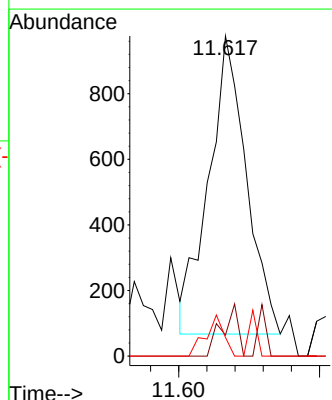
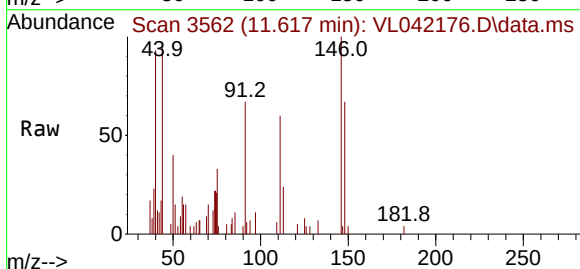
Tgt Ion: 91 Resp: 844

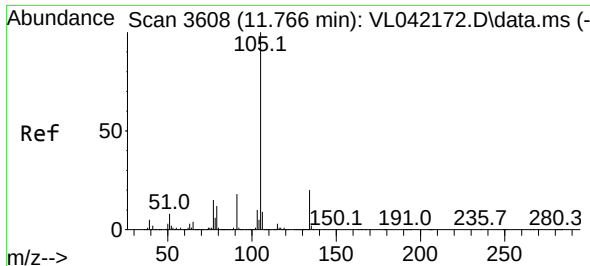
Ion Ratio Lower Upper

91 100

126 11.0 13.8 20.6#

128 10.0 4.5 6.7#

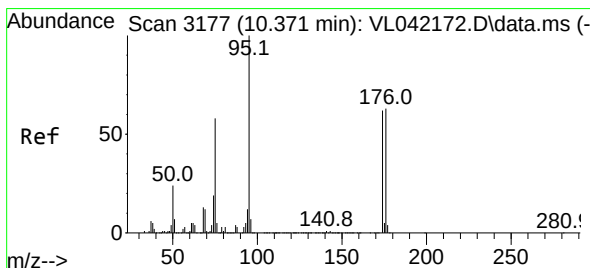
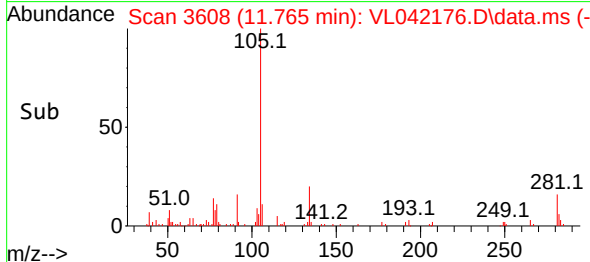
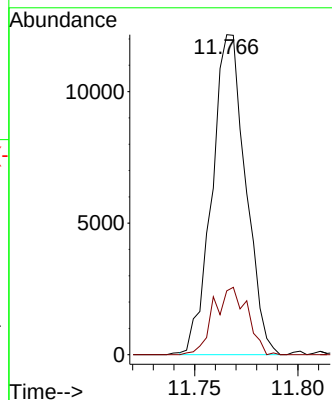
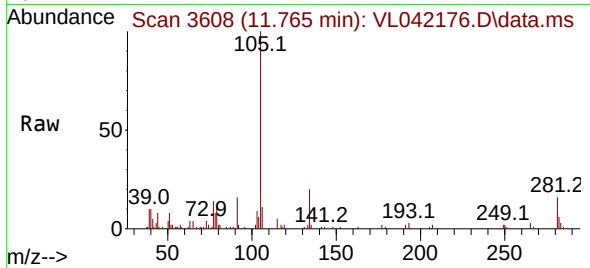




#67
 sec-Butylbenzene
 Concen: 0.105 ppbv
 RT: 11.765 min Scan# 3608
 Delta R.T. -0.000 min
 Lab File: VL042176.D
 Acq: 27 Mar 2025 10:32

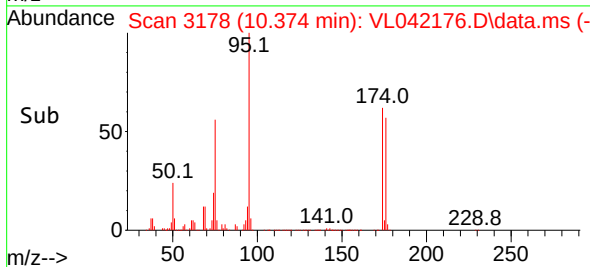
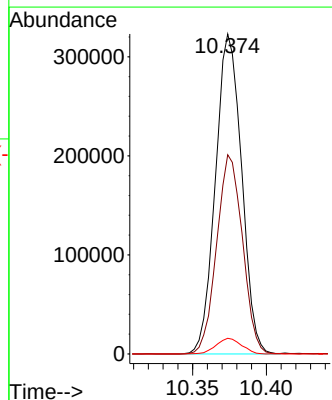
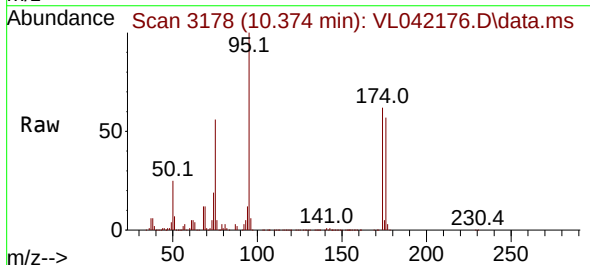
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC0.1

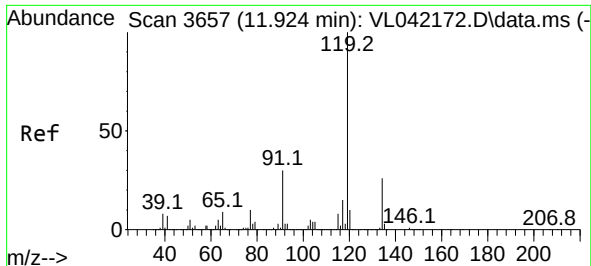
Tgt Ion:105 Resp: 13775
 Ion Ratio Lower Upper
 105 100
 134 21.2 15.5 23.3



#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.067 ppbv
 RT: 10.374 min Scan# 3178
 Delta R.T. 0.003 min
 Lab File: VL042176.D
 Acq: 27 Mar 2025 10:32

Tgt Ion: 95 Resp: 398069
 Ion Ratio Lower Upper
 95 100
 174 61.5 50.6 76.0
 175 4.8 3.8 5.6

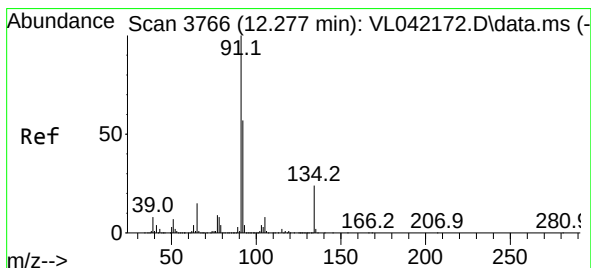
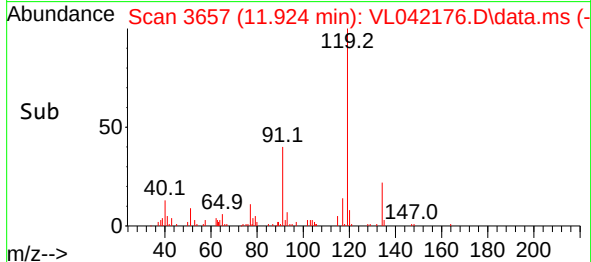
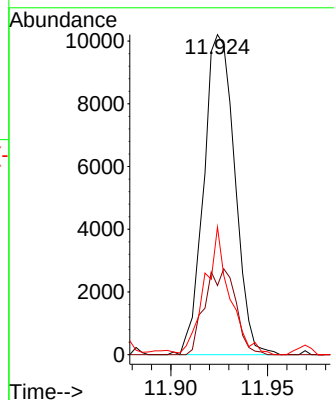
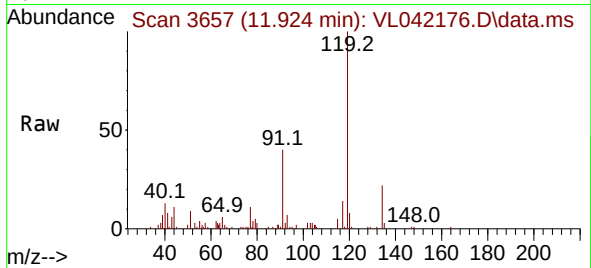




#69
p-Isopropyltoluene
Concen: 0.100 ppbv
RT: 11.924 min Scan# 3657
Delta R.T. -0.000 min
Lab File: VL042176.D
Acq: 27 Mar 2025 10:32

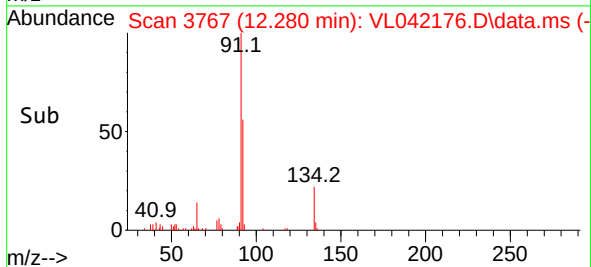
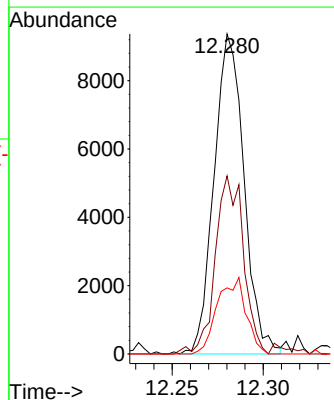
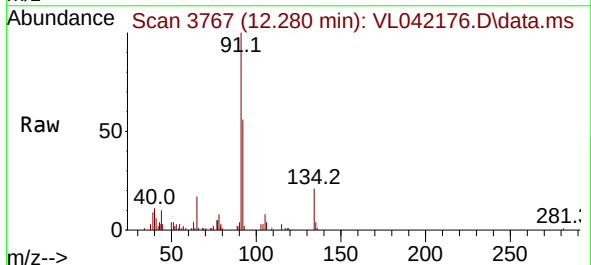
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

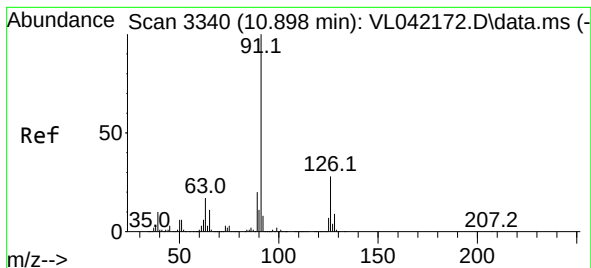
Tgt Ion:119 Resp: 11366
Ion Ratio Lower Upper
119 100
134 26.8 20.4 30.6
91 30.7 23.7 35.5



#70
n-Butylbenzene
Concen: 0.092 ppbv
RT: 12.280 min Scan# 3767
Delta R.T. 0.003 min
Lab File: VL042176.D
Acq: 27 Mar 2025 10:32

Tgt Ion: 91 Resp: 10697
Ion Ratio Lower Upper
91 100
92 54.0 44.9 67.3
134 22.9 19.2 28.8

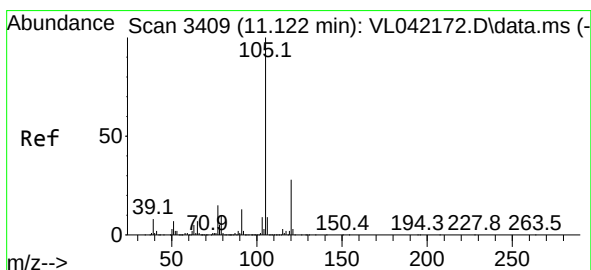
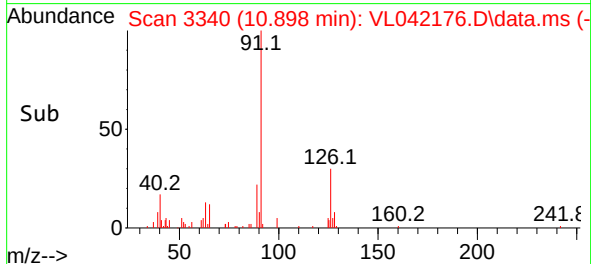
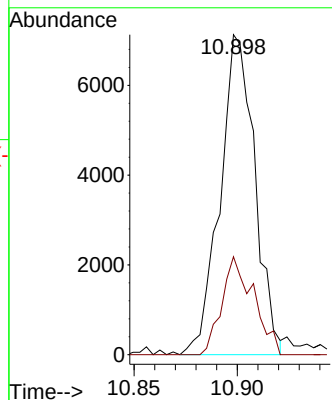
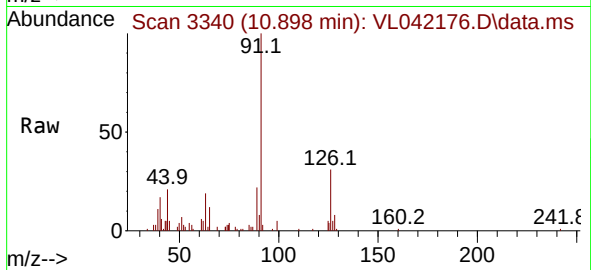




#71
2-Chlorotoluene
Concen: 0.105 ppbv
RT: 10.898 min Scan# 311
Delta R.T. -0.000 min
Lab File: VL042176.D
Acq: 27 Mar 2025 10:32

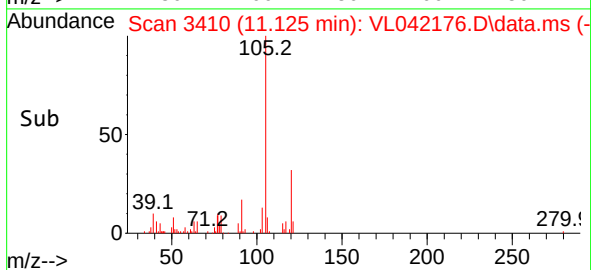
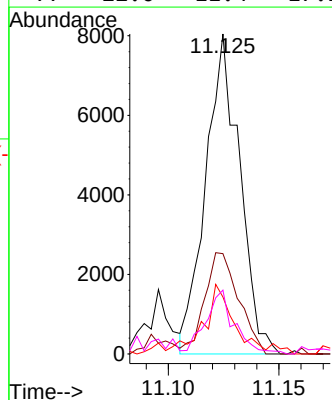
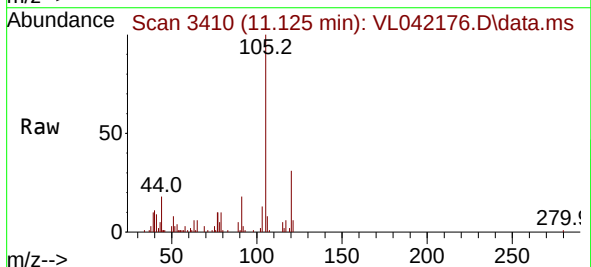
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

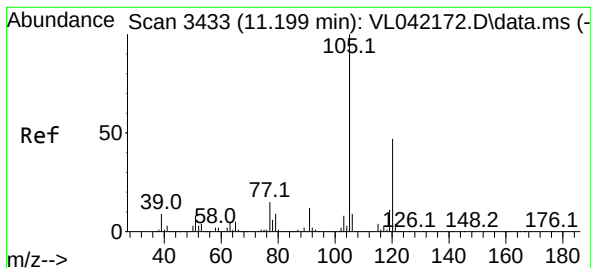
Tgt Ion: 91 Resp: 8347
Ion Ratio Lower Upper
91 100
126 28.0 11.6 46.4



#72
4-Ethyltoluene
Concen: 0.101 ppbv
RT: 11.125 min Scan# 3410
Delta R.T. 0.003 min
Lab File: VL042176.D
Acq: 27 Mar 2025 10:32

Tgt Ion: 105 Resp: 8579
Ion Ratio Lower Upper
105 100
120 36.1 23.4 35.0#
91 21.4 10.3 15.5#
77 22.0 11.4 17.2#





#73

1,3,5-Trimethylbenzene

Concen: 0.113 ppbv

RT: 11.202 min Scan# 3433

Delta R.T. 0.003 min

Lab File: VL042176.D

Acq: 27 Mar 2025 10:32

Instrument :

MSVOA_1

ClientSampleId :

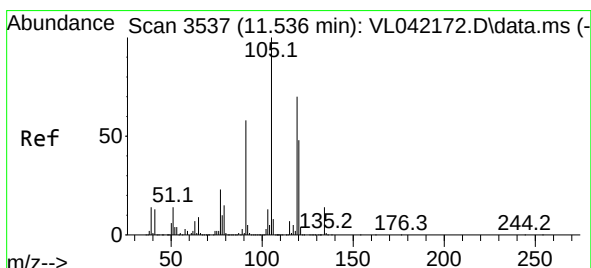
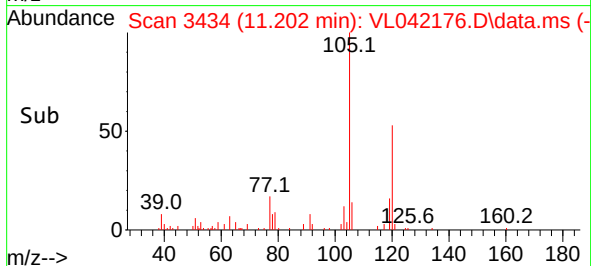
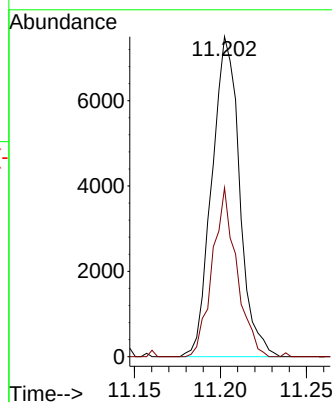
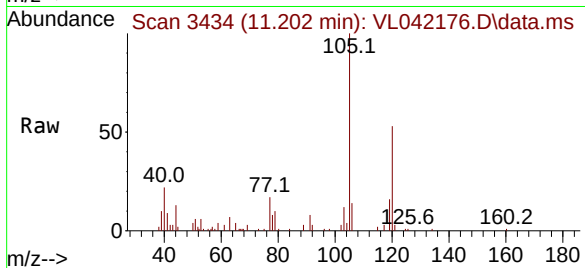
VSTDIC0.1

Tgt Ion:105 Resp: 8407

Ion Ratio Lower Upper

105 100

120 52.7 37.4 56.0



#74

1,2,4-Trimethylbenzene

Concen: 0.121 ppbv

RT: 11.536 min Scan# 3537

Delta R.T. -0.000 min

Lab File: VL042176.D

Acq: 27 Mar 2025 10:32

Tgt Ion:105 Resp: 10341

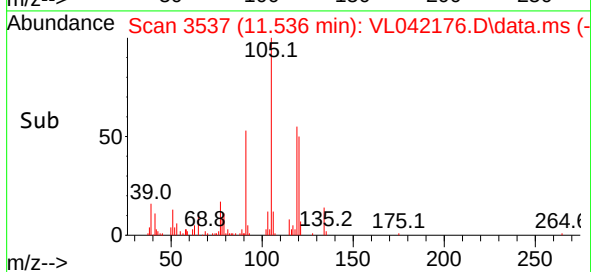
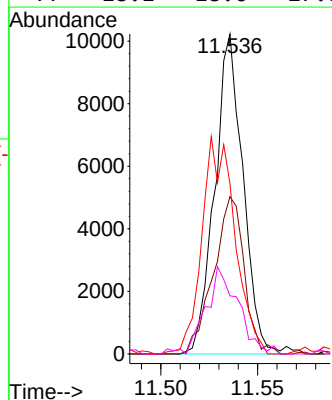
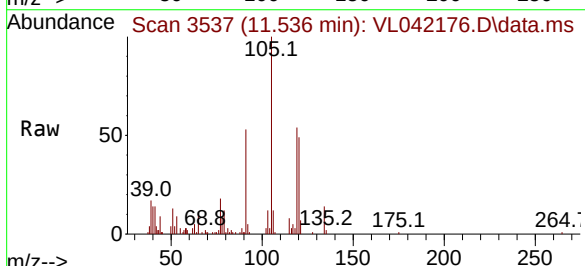
Ion Ratio Lower Upper

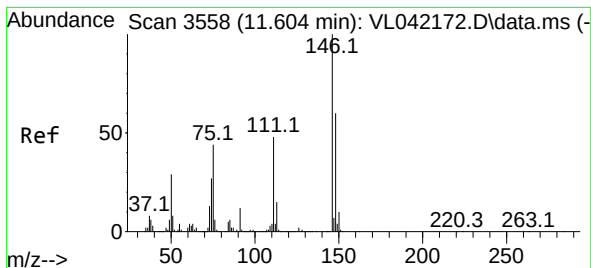
105 100

120 49.2 38.6 58.0

91 53.2 46.2 69.2

77 18.1 18.6 27.8#





#75

1,3-Dichlorobenzene

Concen: 0.094 ppbv

RT: 11.604 min Scan# 3558

Delta R.T. -0.000 min

Lab File: VL042176.D

Acq: 27 Mar 2025 10:32

Instrument :

MSVOA_1

ClientSampleId :

VSTDIC0.1

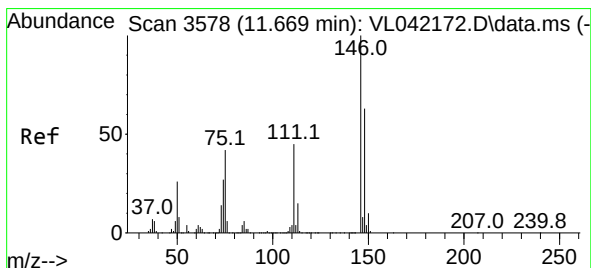
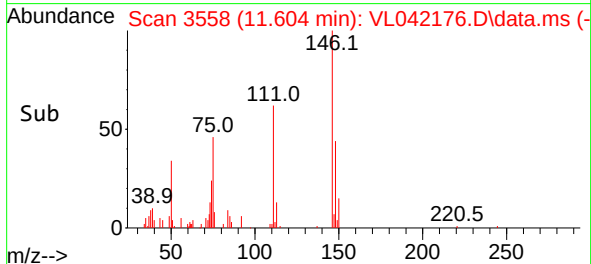
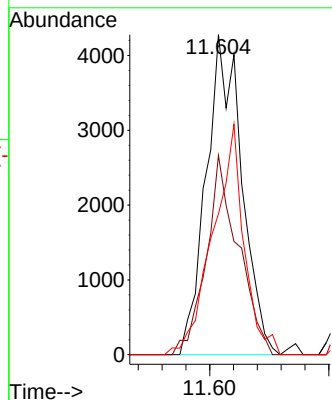
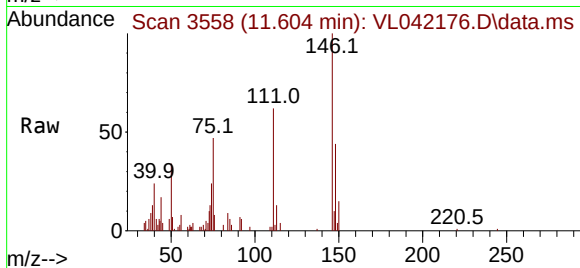
Tgt Ion:146 Resp: 4426

Ion Ratio Lower Upper

146 100

111 56.3 23.8 71.2

148 62.9 31.9 95.9



#76

1,4-Dichlorobenzene

Concen: 0.097 ppbv

RT: 11.672 min Scan# 3579

Delta R.T. 0.003 min

Lab File: VL042176.D

Acq: 27 Mar 2025 10:32

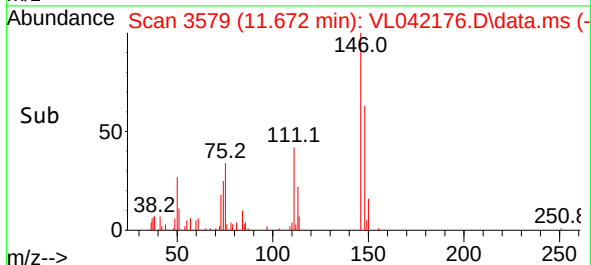
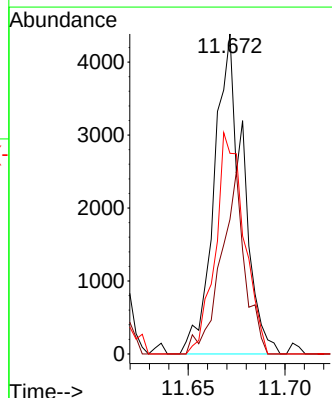
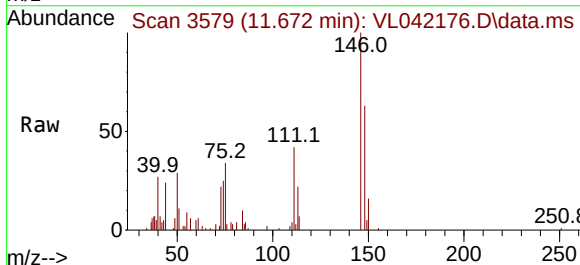
Tgt Ion:146 Resp: 4552

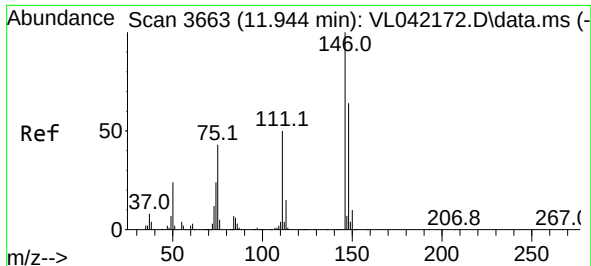
Ion Ratio Lower Upper

146 100

111 47.6 23.0 69.0

148 68.6 31.9 95.7

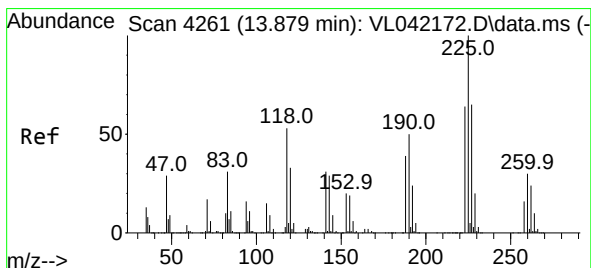
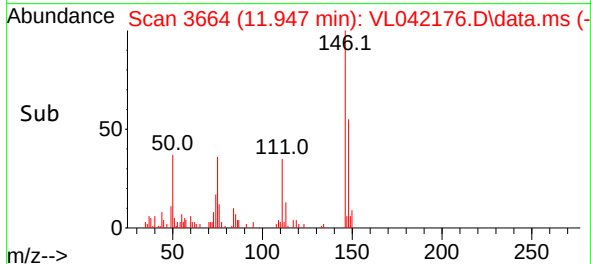
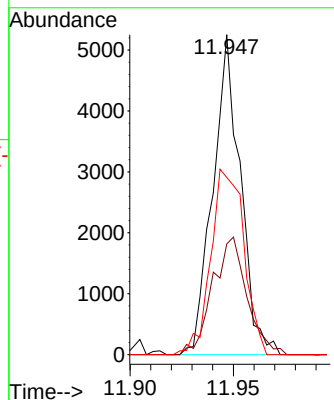
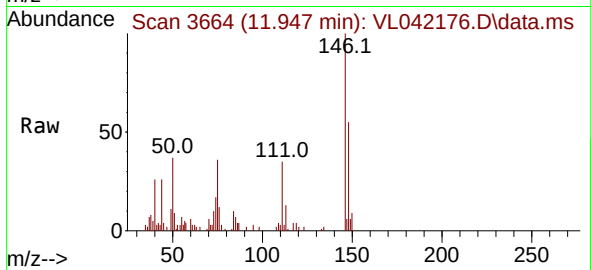




#77
1,2-Dichlorobenzene
Concen: 0.106 ppbv
RT: 11.947 min Scan# 3663
Delta R.T. 0.003 min
Lab File: VL042176.D
Acq: 27 Mar 2025 10:32

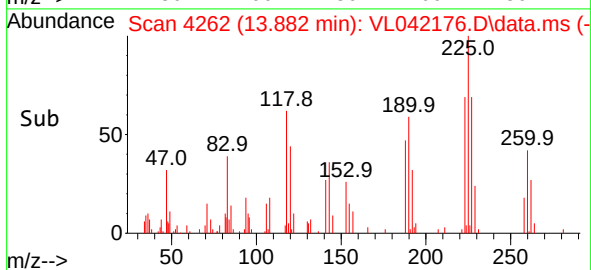
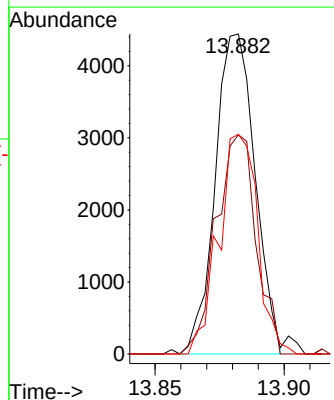
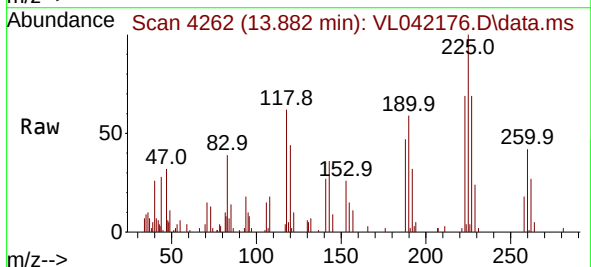
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

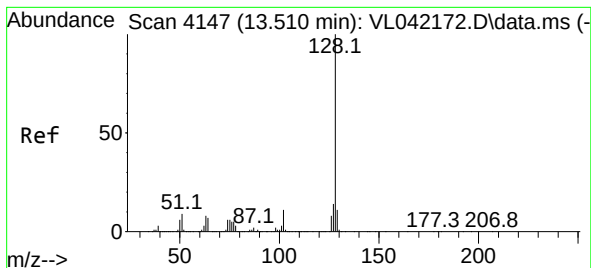
Tgt Ion:146 Resp: 4867
Ion Ratio Lower Upper
146 100
111 45.8 24.8 74.3
148 69.7 31.6 94.8



#78
Hexachloro-1,3-Butadiene
Concen: 0.102 ppbv
RT: 13.882 min Scan# 4262
Delta R.T. 0.003 min
Lab File: VL042176.D
Acq: 27 Mar 2025 10:32

Tgt Ion:225 Resp: 4755
Ion Ratio Lower Upper
225 100
223 68.9 50.6 76.0
227 67.4 51.2 76.8





#79

Naphthalene

Concen: 0.084 ppbv

RT: 13.513 min Scan# 4147

Delta R.T. 0.003 min

Lab File: VL042176.D

Acq: 27 Mar 2025 10:32

Instrument :

MSVOA_1

ClientSampleId :

VSTDIC0.1

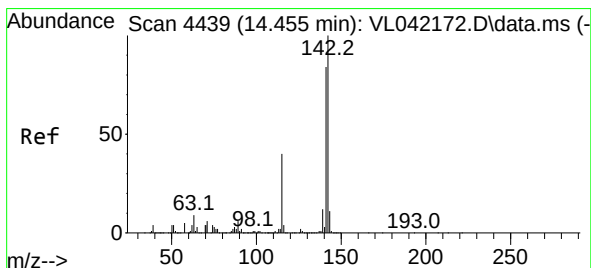
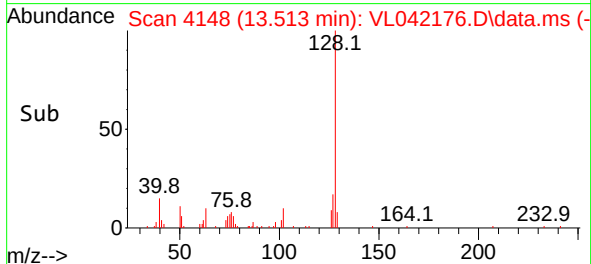
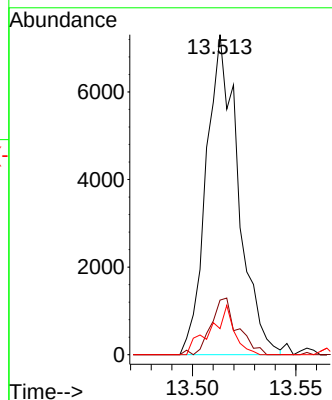
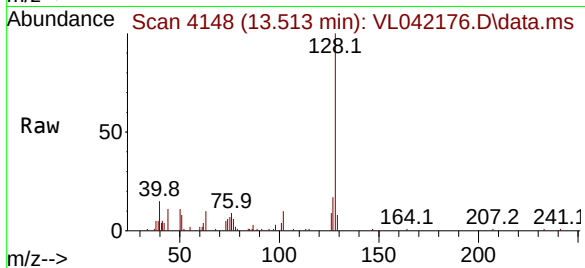
Tgt Ion:128 Resp: 7882

Ion Ratio Lower Upper

128 100

127 17.1 10.8 16.2#

129 8.1 9.0 13.4#



#80

Naphthalene,2-methyl-

Concen: 0.048 ppbv

RT: 14.471 min Scan# 4444

Delta R.T. 0.016 min

Lab File: VL042176.D

Acq: 27 Mar 2025 10:32

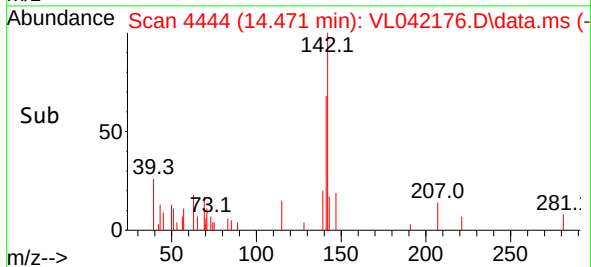
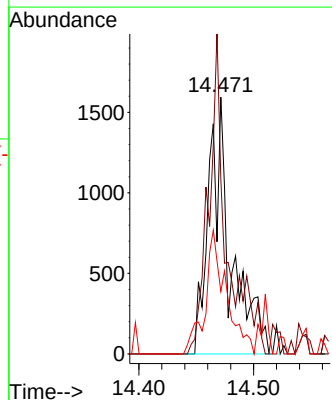
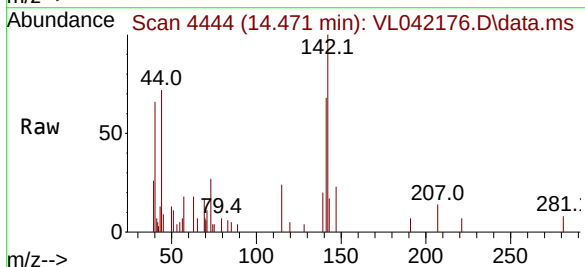
Tgt Ion:142 Resp: 2174

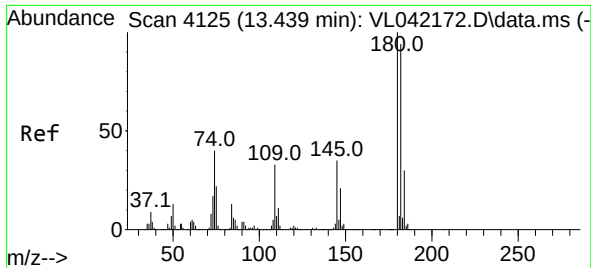
Ion Ratio Lower Upper

142 100

141 109.3 66.3 99.5#

115 44.3 31.6 47.4





#81

1,2,4-Trichlorobenzene

Concen: 0.059 ppbv

RT: 13.442 min Scan# 41

Delta R.T. 0.003 min

Lab File: VL042176.D

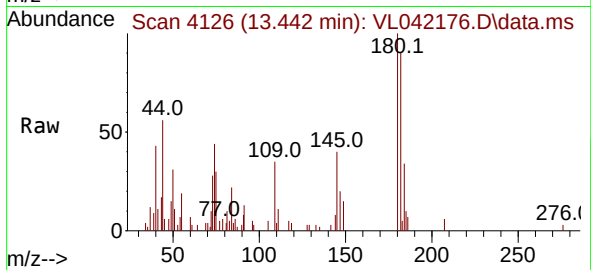
Acq: 27 Mar 2025 10:32

Instrument :

MSVOA_1

ClientSampleId :

VSTDICC0.1



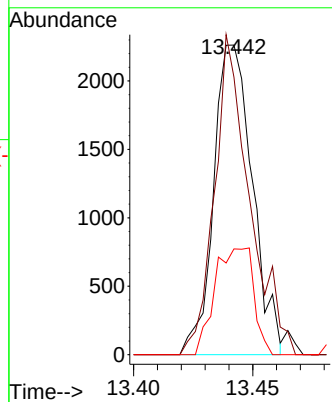
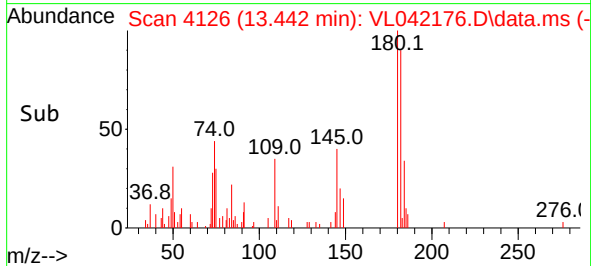
Tgt Ion:180 Resp: 2557

Ion Ratio Lower Upper

180 100

182 93.6 75.1 112.7

184 34.5 24.4 36.6



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
 Data File : VL042177.D
 Acq On : 27 Mar 2025 11:03
 Operator : SY/MD
 Sample : VSTDICC0.03
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC0.03

Quant Time: Mar 28 01:36:24 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri Mar 28 01:31:23 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.787	49	178058	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.955	114	512915	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.878	117	475617	10.000	ppbv	0.00

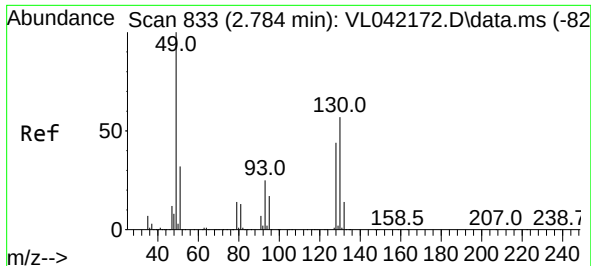
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.374	95	389935	9.983	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.800%

Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.496	85	914	0.035	ppbv #	73
3) Chlorodifluoromethane	1.476	51	1354	0.050	ppbv #	1
4) Chloromethane	1.531	50	675	0.063	ppbv #	86
5) Vinyl Chloride	1.580	62	534	0.049	ppbv #	79
6) Bromomethane	1.670	94	483	0.099	ppbv #	9
7) Chloroethane	1.703	64	361	0.084	ppbv #	45
8) Dichlorotetrafluoroethane	1.554	85	815	0.036	ppbv #	79
13) Ethanol	1.719	45	312	0.329	ppbv #	27
14) Bromoethene	1.780	108	482	0.060	ppbv #	31
15) Acetone	1.835	43	3574	0.144	ppbv #	63
16) 1,3-Butadiene	1.606	39	1101	0.098	ppbv #	57
17) tert-Butyl alcohol	2.043	59	1215	0.039	ppbv #	1
18) 1,1-Dichloroethene	2.036	96	560	0.057	ppbv #	38
19) Isopropyl Alcohol	1.887	45	1071	0.076	ppbv #	30
20) Methylene Chloride	2.059	84	1823	0.197	ppbv #	91
21) Allyl Chloride	2.091	41	1518	0.086	ppbv #	29
22) trans-1,2-Dichloroethene	2.719	96	586	0.051	ppbv	96
23) Vinyl Acetate	2.463	43	689	0.067	ppbv #	1
24) 1,1-Dichloroethane	2.412	63	961	0.046	ppbv #	72
26) Hexane	2.819	57	1040	0.042	ppbv #	46
27) Carbon Disulfide	2.149	76	1061	0.040	ppbv #	1
29) Chloroform	2.848	83	1619	0.044	ppbv	92
31) cis-1,2-Dichloroethene	2.719	61	846	0.033	ppbv	92
35) Carbon Tetrachloride	3.758	117	1520	0.039	ppbv #	42
37) 1,2-Dichloroethane	3.214	62	1029	0.035	ppbv #	88
39) 1,2-Dichloropropane	3.955	63	136518	7.372	ppbv #	23
57) Chlorobenzene	8.924	112	1382	0.031	ppbv #	61
60) o-Xylene	9.959	91	2844	0.042	ppbv	96
62) Isopropylbenzene	10.535	105	3380	0.033	ppbv	95
65) tert-Butylbenzene	11.529	119	3543	0.038	ppbv	98
67) sec-Butylbenzene	11.765	105	4317	0.033	ppbv	92
71) 2-Chlorotoluene	10.898	91	2666	0.034	ppbv	97
72) 4-Ethyltoluene	11.121	105	3017	0.036	ppbv #	64
73) 1,3,5-Trimethylbenzene	11.205	105	3101	0.042	ppbv	94
74) 1,2,4-Trimethylbenzene	11.539	105	5313	0.063	ppbv #	73
75) 1,3-Dichlorobenzene	11.607	146	1577	0.034	ppbv	90
77) 1,2-Dichlorobenzene	11.947	146	1591	0.035	ppbv	92
78) Hexachloro-1,3-Butadiene	13.882	225	1821	0.040	ppbv	94

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

Quant Time: Mar 28 01:36:24 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Mar 28 01:31:23 2025
Response via : Initial Calibration

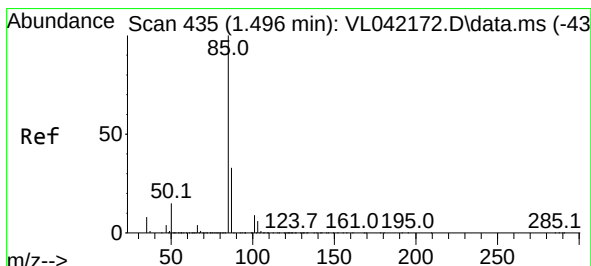
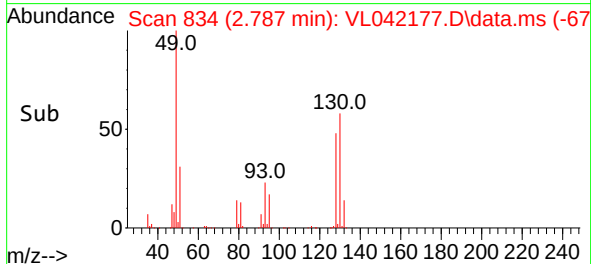
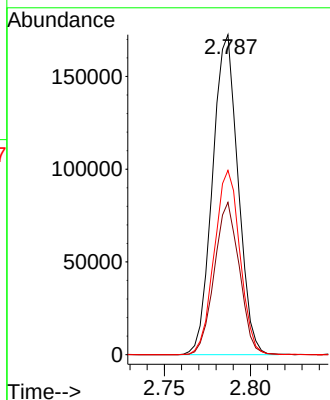
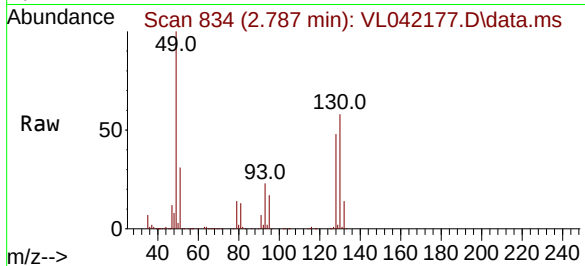




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 81
Delta R.T. 0.003 min
Lab File: VL042177.D
Acq: 27 Mar 2025 11:03

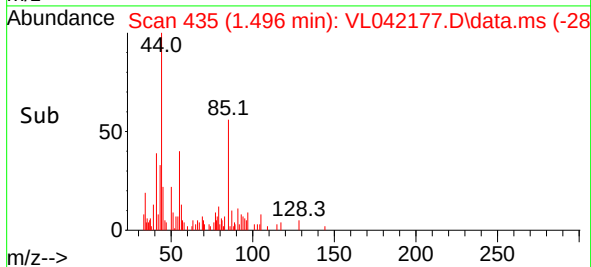
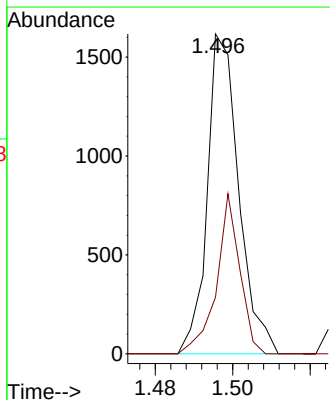
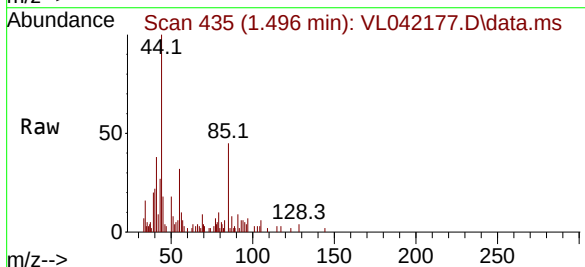
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03

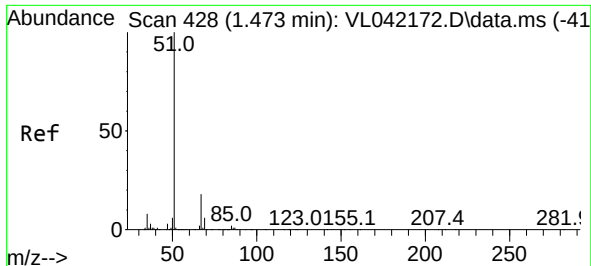
Tgt Ion: 49 Resp: 178058
Ion Ratio Lower Upper
49 100
128 46.8 22.9 68.5
130 57.9 28.8 86.4



#2
Dichlorodifluoromethane
Concen: 0.035 ppbv
RT: 1.496 min Scan# 435
Delta R.T. -0.000 min
Lab File: VL042177.D
Acq: 27 Mar 2025 11:03

Tgt Ion: 85 Resp: 914
Ion Ratio Lower Upper
85 100
87 17.7 26.1 39.1#

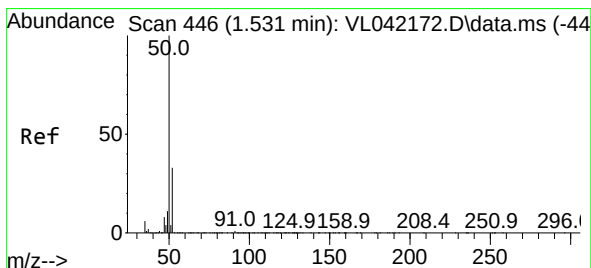
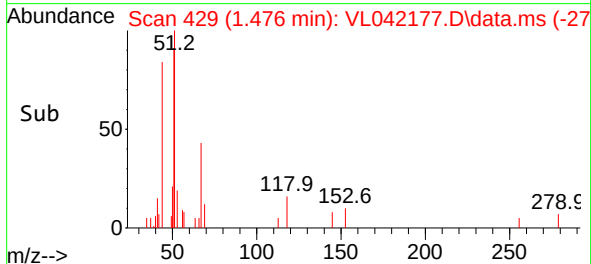
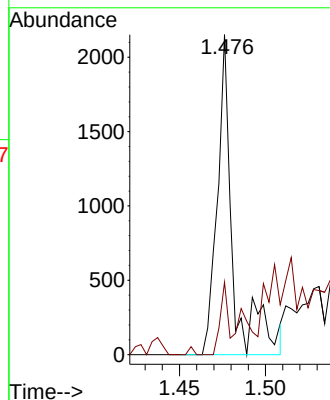
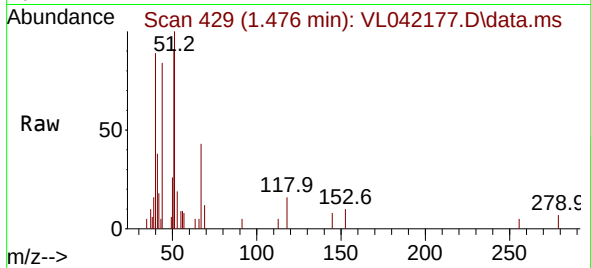




#3
Chlorodifluoromethane
Concen: 0.050 ppbv
RT: 1.476 min Scan# 428
Delta R.T. 0.003 min
Lab File: VL042177.D
Acq: 27 Mar 2025 11:03

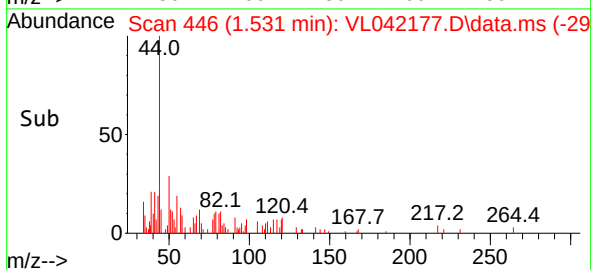
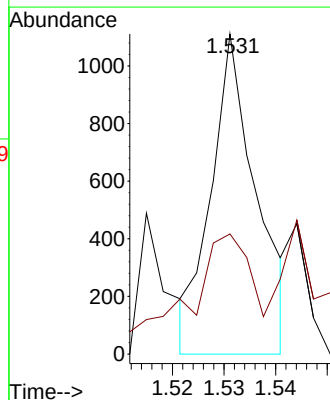
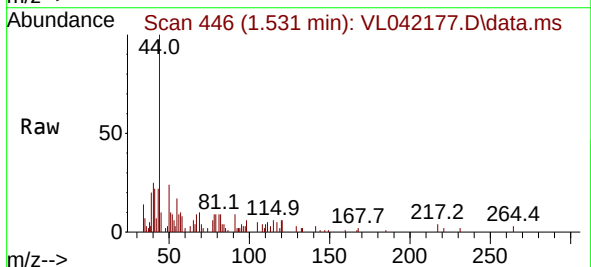
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03

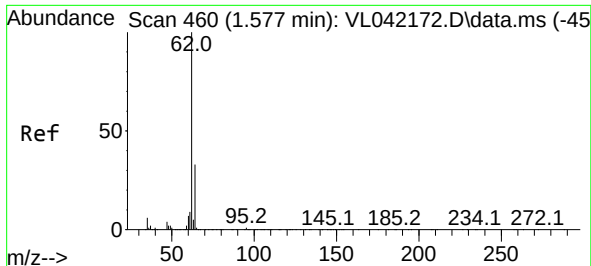
Tgt Ion: 51 Resp: 1354
Ion Ratio Lower Upper
51 100
67 71.0 15.0 22.6#



#4
Chloromethane
Concen: 0.063 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL042177.D
Acq: 27 Mar 2025 11:03

Tgt Ion: 50 Resp: 675
Ion Ratio Lower Upper
50 100
52 24.6 26.1 39.1#

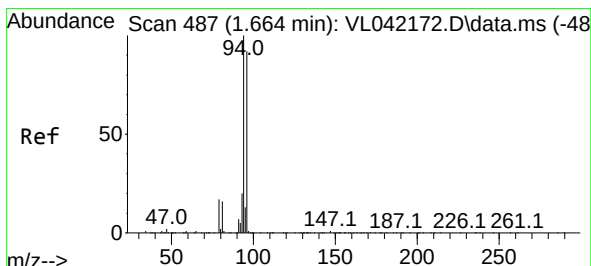
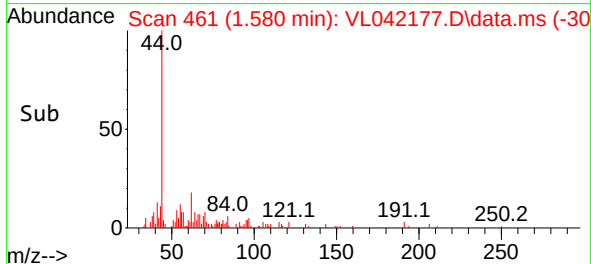
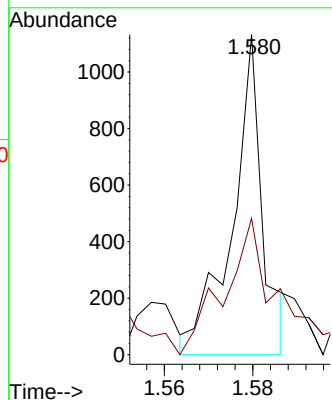
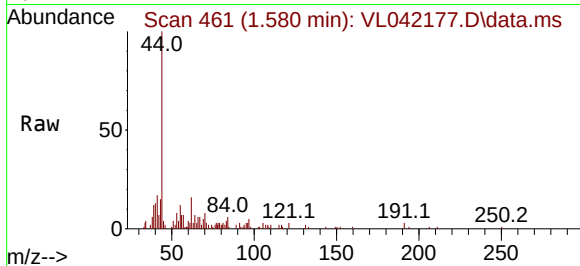




#5
 Vinyl Chloride
 Concen: 0.049 ppbv
 RT: 1.580 min Scan# 461
 Delta R.T. 0.003 min
 Lab File: VL042177.D
 Acq: 27 Mar 2025 11:03

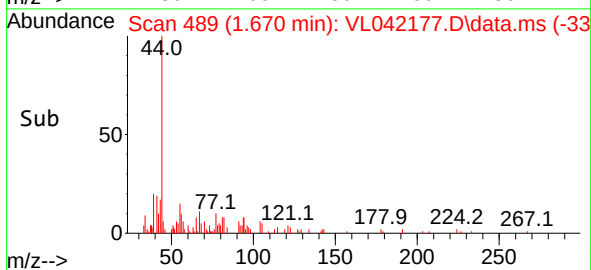
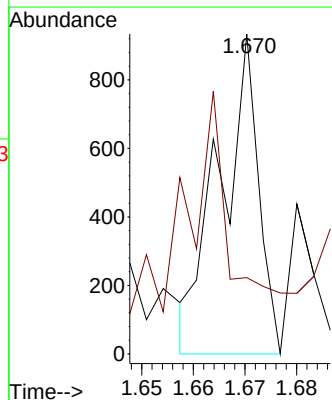
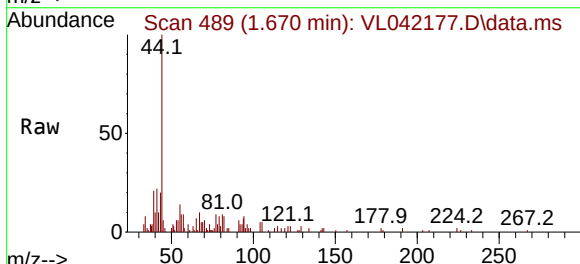
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC0.03

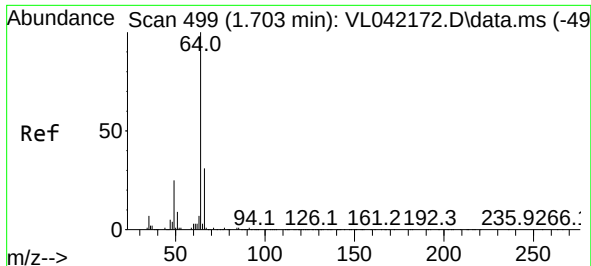
Tgt Ion: 62 Resp: 534
 Ion Ratio Lower Upper
 62 100
 64 45.4 26.6 40.0#



#6
 Bromomethane
 Concen: 0.099 ppbv
 RT: 1.670 min Scan# 489
 Delta R.T. 0.006 min
 Lab File: VL042177.D
 Acq: 27 Mar 2025 11:03

Tgt Ion: 94 Resp: 483
 Ion Ratio Lower Upper
 94 100
 96 4.8 73.1 109.7#

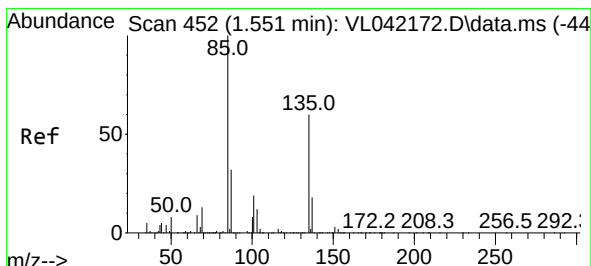
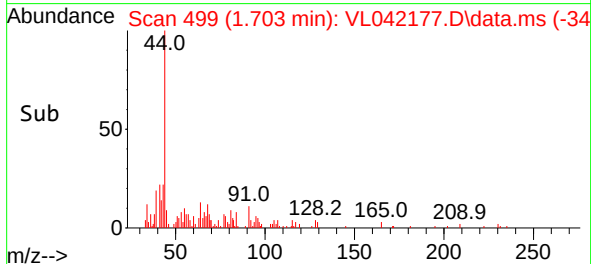
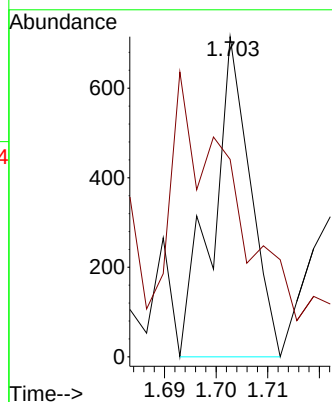
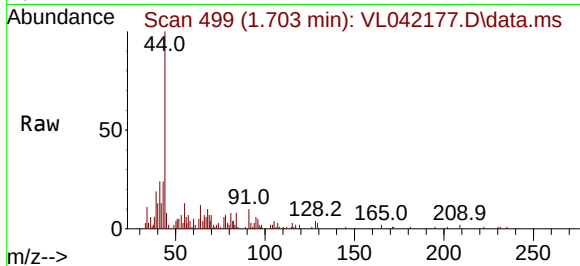




#7
Chloroethane
Concen: 0.084 ppbv
RT: 1.703 min Scan# 499
Delta R.T. -0.000 min
Lab File: VL042177.D
Acq: 27 Mar 2025 11:03

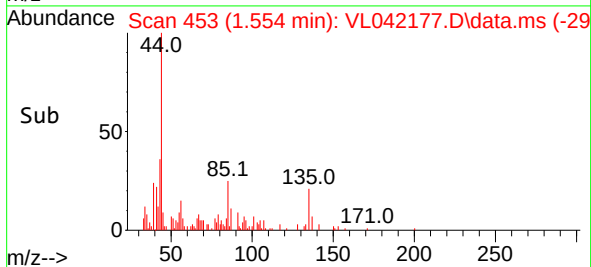
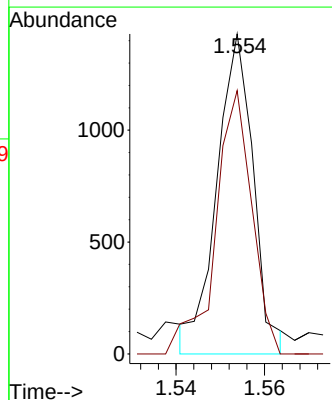
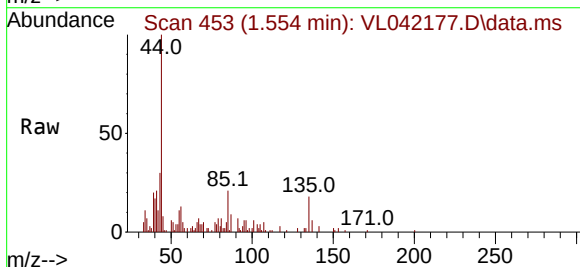
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03

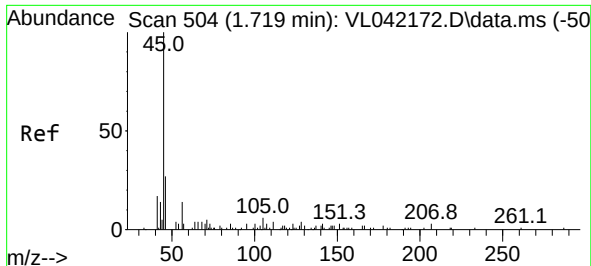
Tgt Ion: 64 Resp: 361
Ion Ratio Lower Upper
64 100
66 61.7 25.2 37.8#



#8
Dichlorotetrafluoroethane
Concen: 0.036 ppbv
RT: 1.554 min Scan# 453
Delta R.T. 0.003 min
Lab File: VL042177.D
Acq: 27 Mar 2025 11:03

Tgt Ion: 85 Resp: 815
Ion Ratio Lower Upper
85 100
135 82.3 52.4 78.6#

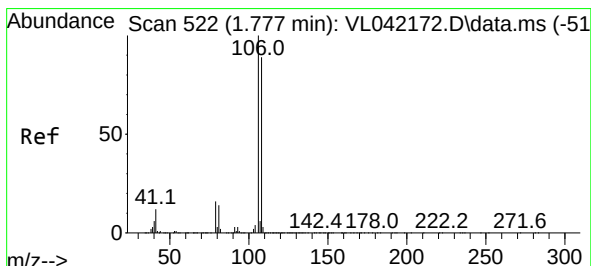
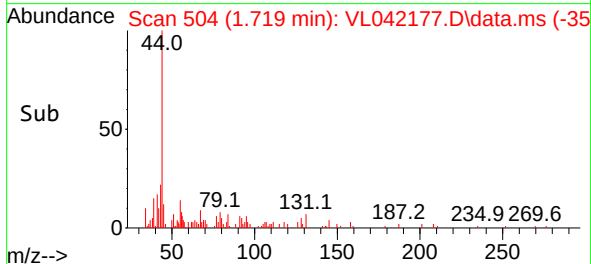
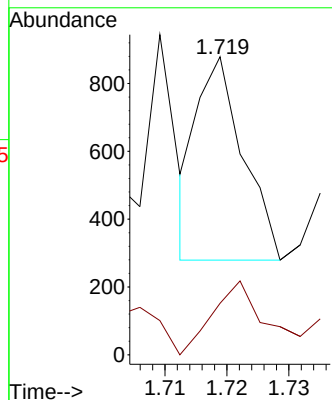
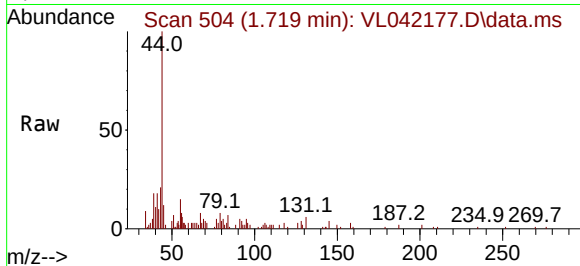




#13
 Ethanol
 Concen: 0.329 ppbv
 RT: 1.719 min Scan# 504
 Delta R.T. -0.000 min
 Lab File: VL042177.D
 Acq: 27 Mar 2025 11:03

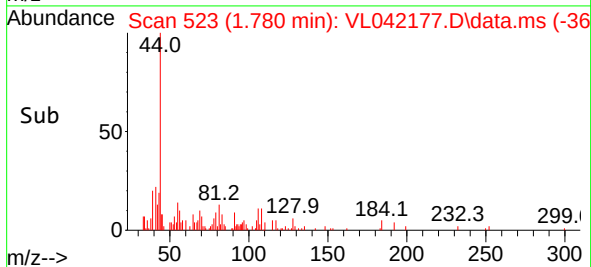
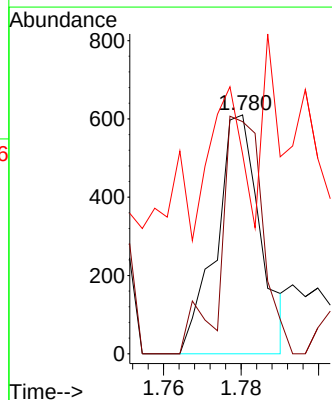
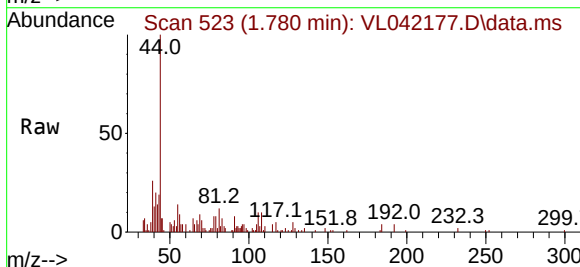
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC0.03

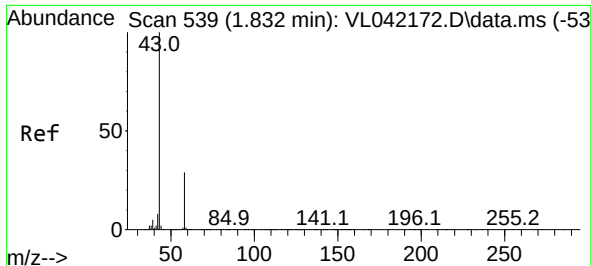
Tgt Ion: 45 Resp: 312
 Ion Ratio Lower Upper
 45 100
 46 0.0 20.2 80.8#



#14
 Bromoethene
 Concen: 0.060 ppbv
 RT: 1.780 min Scan# 523
 Delta R.T. 0.003 min
 Lab File: VL042177.D
 Acq: 27 Mar 2025 11:03

Tgt Ion: 108 Resp: 482
 Ion Ratio Lower Upper
 108 100
 106 100.4 86.8 130.2
 79 208.5 15.0 22.6#

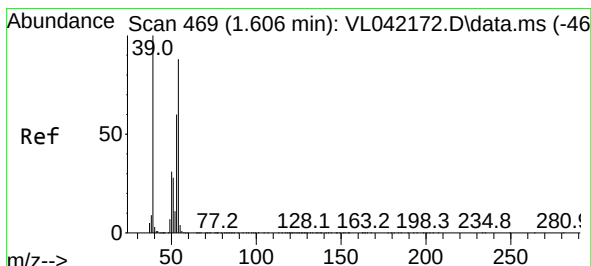
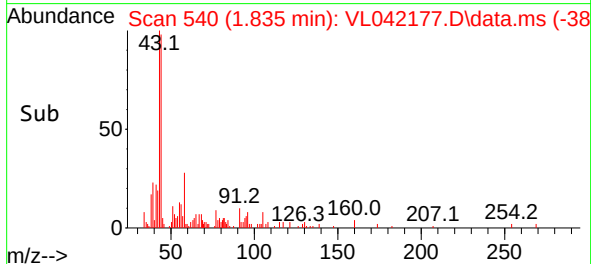
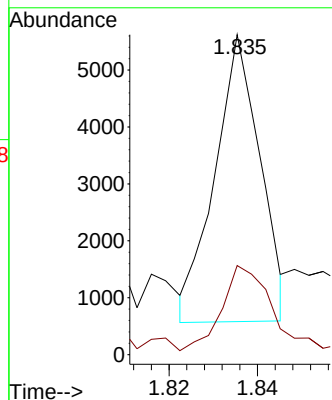
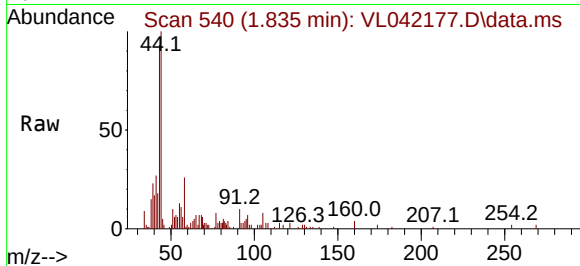




#15
Acetone
Concen: 0.144 ppbv
RT: 1.835 min Scan# 54
Delta R.T. 0.003 min
Lab File: VL042177.D
Acq: 27 Mar 2025 11:03

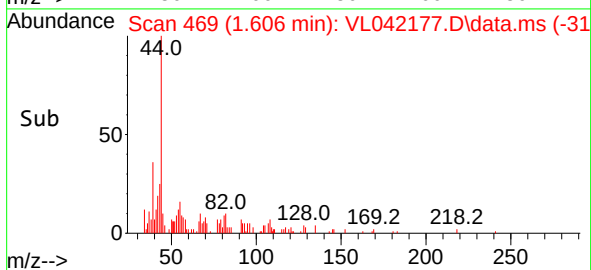
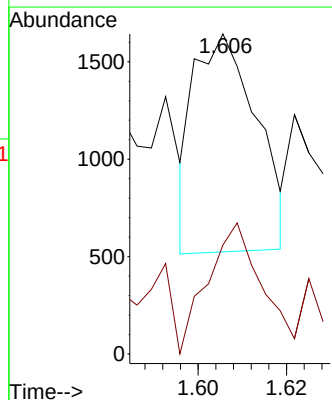
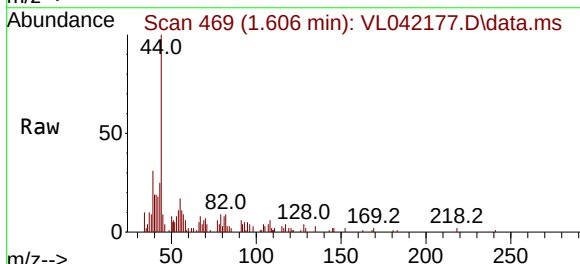
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

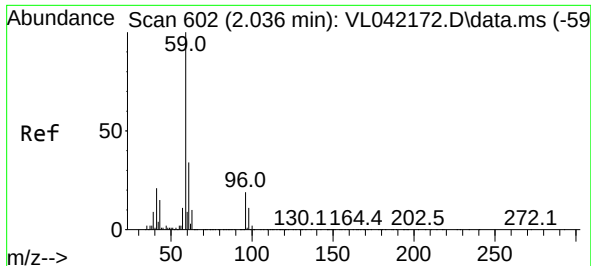
Tgt Ion: 43 Resp: 3574
Ion Ratio Lower Upper
43 100
58 48.5 23.2 34.8#



#16
1,3-Butadiene
Concen: 0.098 ppbv
RT: 1.606 min Scan# 469
Delta R.T. -0.000 min
Lab File: VL042177.D
Acq: 27 Mar 2025 11:03

Tgt Ion: 39 Resp: 1101
Ion Ratio Lower Upper
39 100
54 113.1 60.7 91.1#





#17

tert-Butyl alcohol

Concen: 0.039 ppbv

RT: 2.043 min Scan# 604

Delta R.T. 0.006 min

Lab File: VL042177.D

Acq: 27 Mar 2025 11:03

Instrument :

MSVOA_L

ClientSampleId :

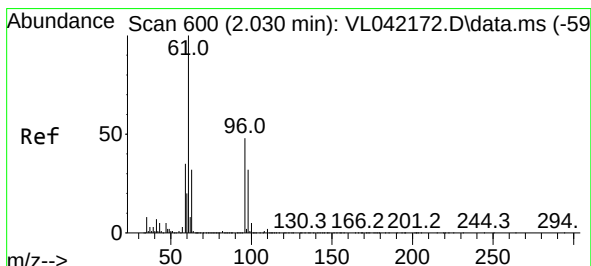
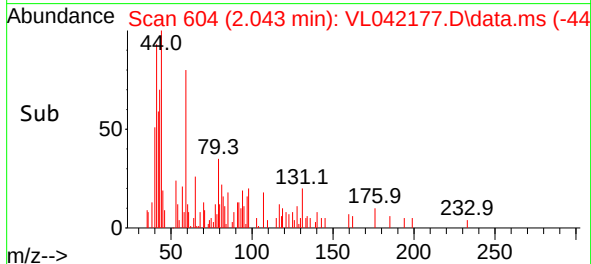
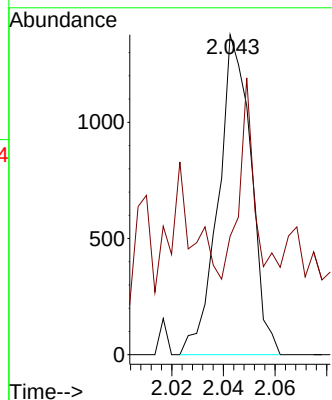
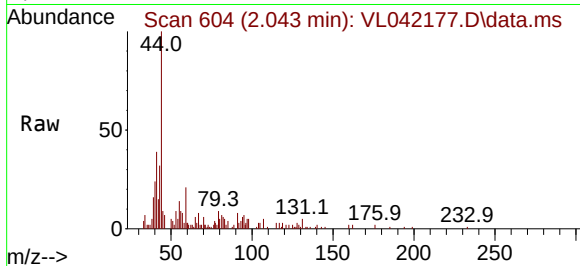
VSTDIC0.03

Tgt Ion: 59 Resp: 1215

Ion Ratio Lower Upper

59 100

57 107.2 8.9 13.3#



#18

1,1-Dichloroethene

Concen: 0.057 ppbv

RT: 2.036 min Scan# 602

Delta R.T. 0.006 min

Lab File: VL042177.D

Acq: 27 Mar 2025 11:03

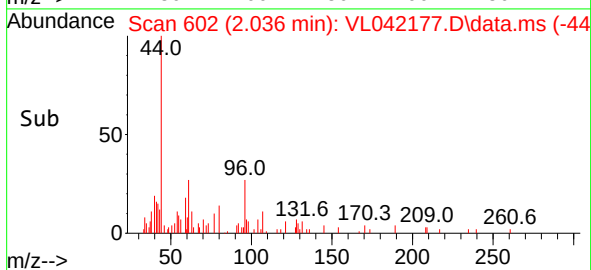
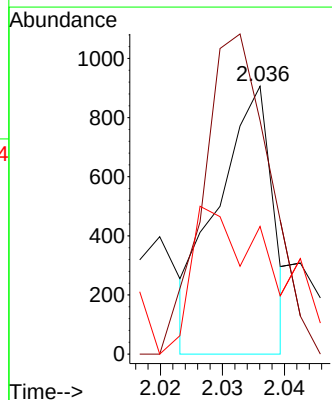
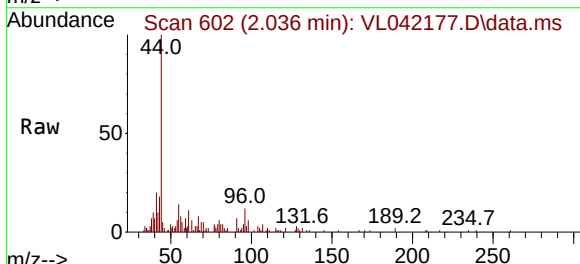
Tgt Ion: 96 Resp: 560

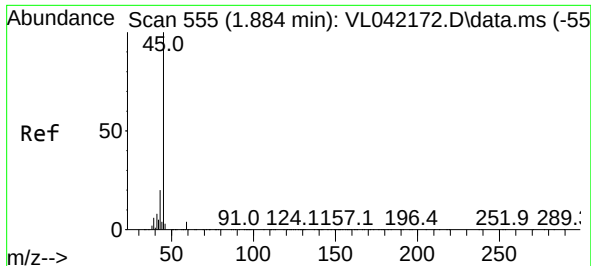
Ion Ratio Lower Upper

96 100

61 87.3 167.6 251.4#

98 56.8 53.5 80.3

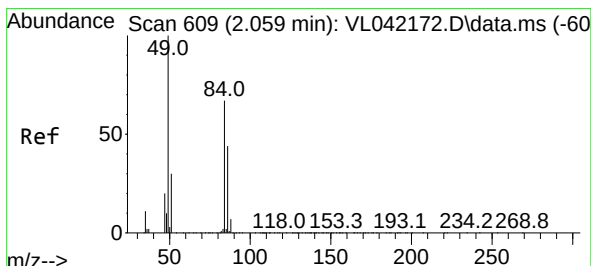
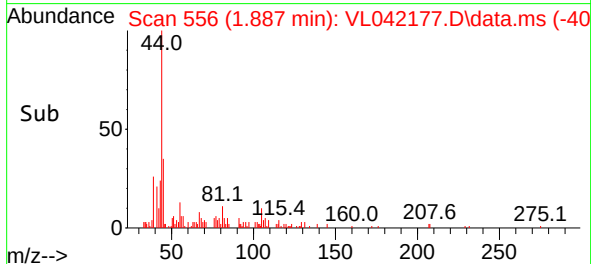
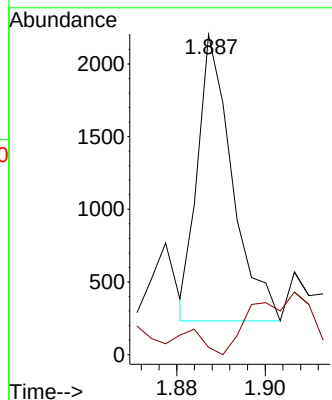
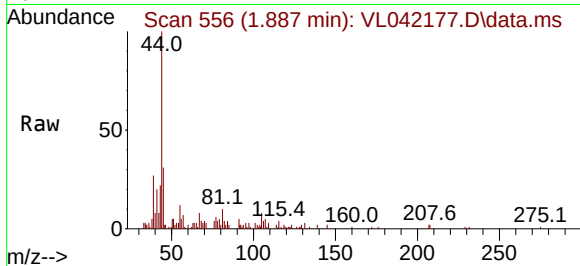




#19
Isopropyl Alcohol
Concen: 0.076 ppbv
RT: 1.887 min Scan# 51
Delta R.T. 0.003 min
Lab File: VL042177.D
Acq: 27 Mar 2025 11:03

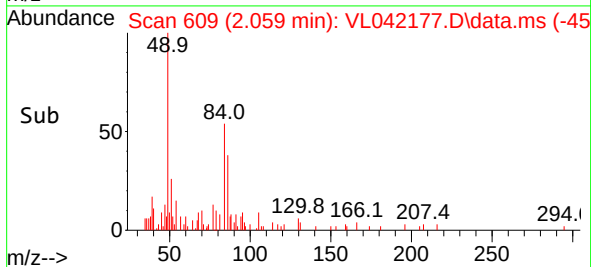
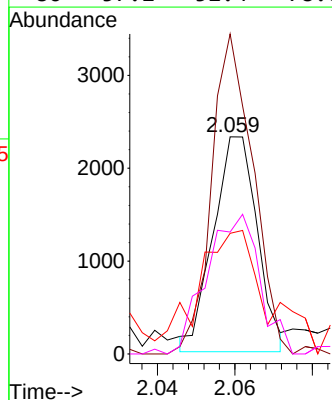
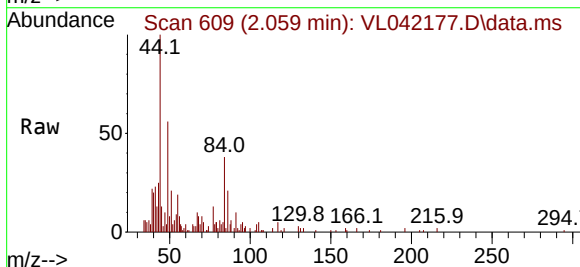
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03

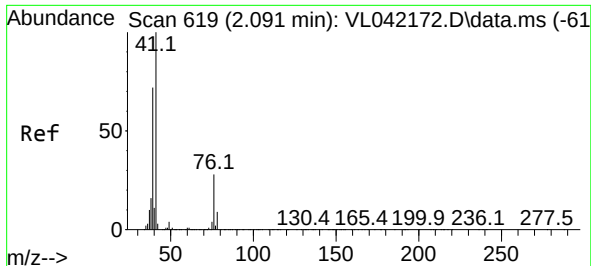
Tgt Ion: 45 Resp: 1071
Ion Ratio Lower Upper
45 100
58 0.0 36.9 55.3#



#20
Methylene Chloride
Concen: 0.197 ppbv
RT: 2.059 min Scan# 609
Delta R.T. -0.000 min
Lab File: VL042177.D
Acq: 27 Mar 2025 11:03

Tgt Ion: 84 Resp: 1823
Ion Ratio Lower Upper
84 100
49 156.6 120.2 180.4
51 34.6 37.4 56.0#
86 57.2 52.4 78.6

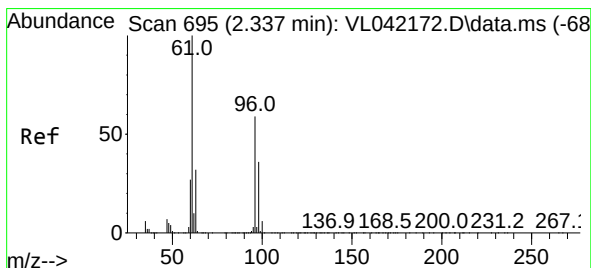
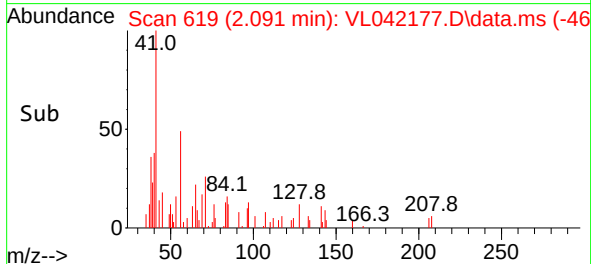
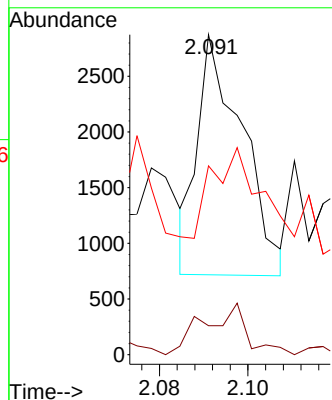
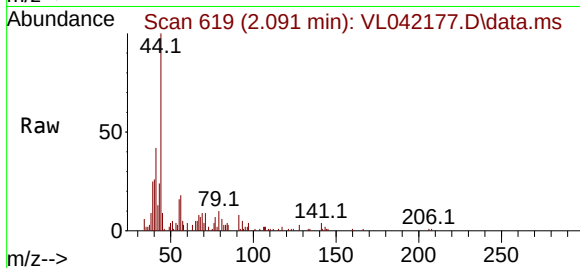




#21
 Allyl Chloride
 Concen: 0.086 ppbv
 RT: 2.091 min Scan# 61
 Delta R.T. -0.000 min
 Lab File: VL042177.D
 Acq: 27 Mar 2025 11:03

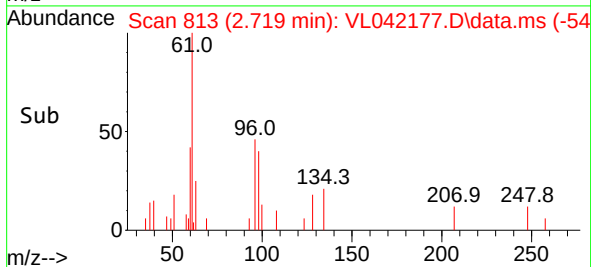
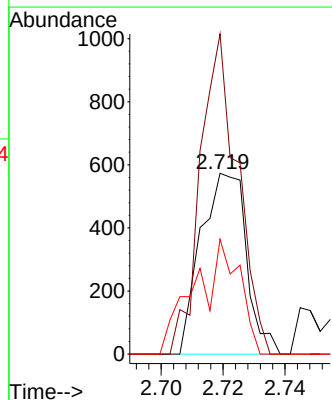
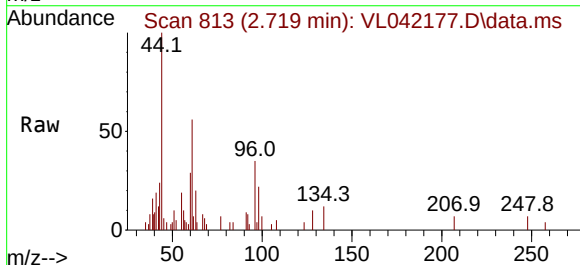
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.03

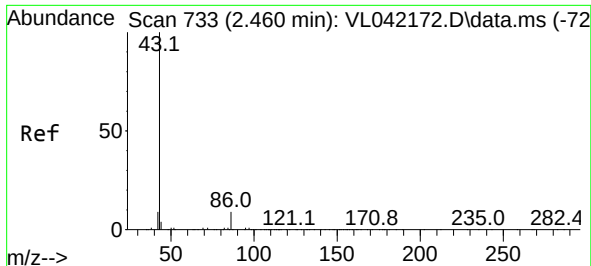
Tgt Ion: 41 Resp: 1518
 Ion Ratio Lower Upper
 41 100
 76 25.9 24.1 36.1
 39 158.8 61.1 91.7#



#22
 trans-1,2-Dichloroethene
 Concen: 0.051 ppbv
 RT: 2.719 min Scan# 813
 Delta R.T. 0.382 min
 Lab File: VL042177.D
 Acq: 27 Mar 2025 11:03

Tgt Ion: 96 Resp: 586
 Ion Ratio Lower Upper
 96 100
 61 177.1 136.6 204.8
 98 63.5 49.4 74.2

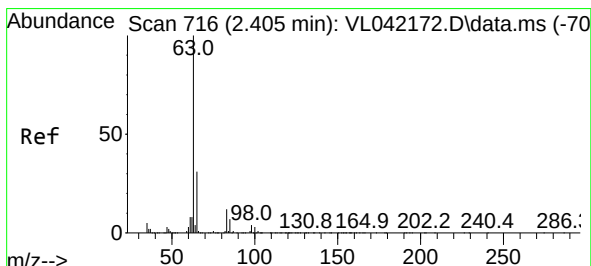
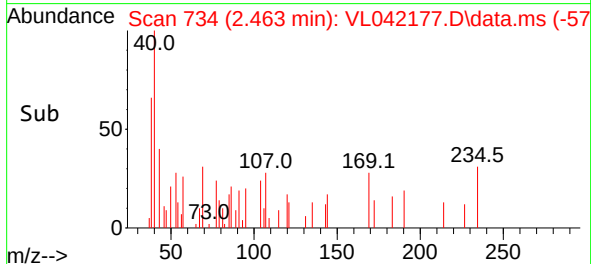
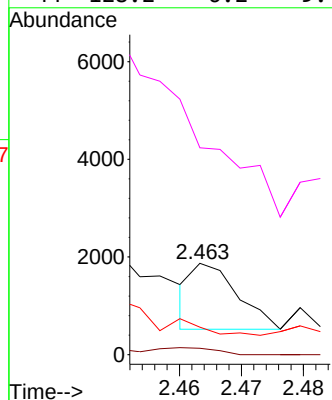
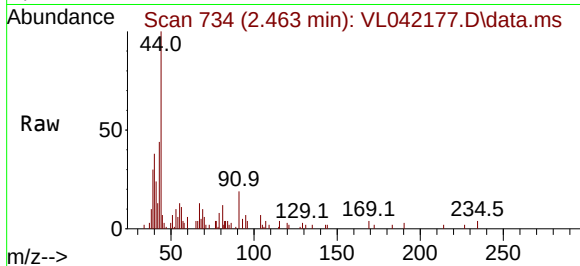




#23
 Vinyl Acetate
 Concen: 0.067 ppbv
 RT: 2.463 min Scan# 718
 Delta R.T. 0.003 min
 Lab File: VL042177.D
 Acq: 27 Mar 2025 11:03

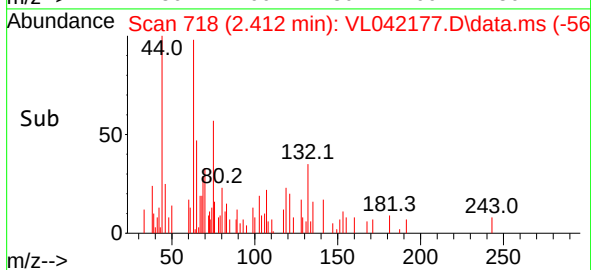
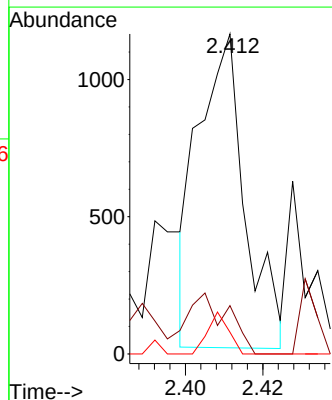
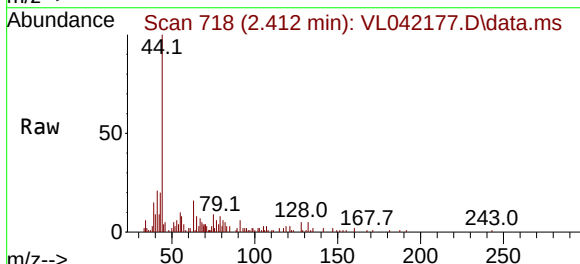
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC0.03

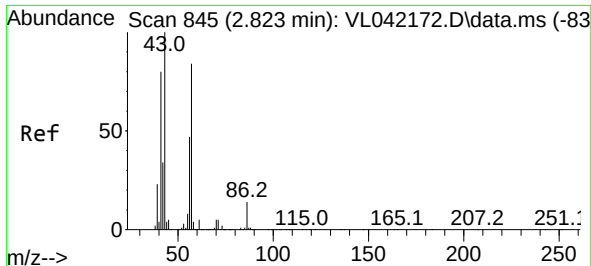
Tgt Ion:	43	Resp:	689
Ion	Ratio	Lower	Upper
43	100		
86	9.7	5.5	8.3#
42	6.8	8.6	13.0#
44	128.2	6.2	9.4#



#24
 1,1-Dichloroethane
 Concen: 0.046 ppbv
 RT: 2.412 min Scan# 718
 Delta R.T. 0.006 min
 Lab File: VL042177.D
 Acq: 27 Mar 2025 11:03

Tgt Ion:	63	Resp:	961
Ion	Ratio	Lower	Upper
63	100		
98	16.8	2.3	6.8#
100	7.6	1.6	4.7#

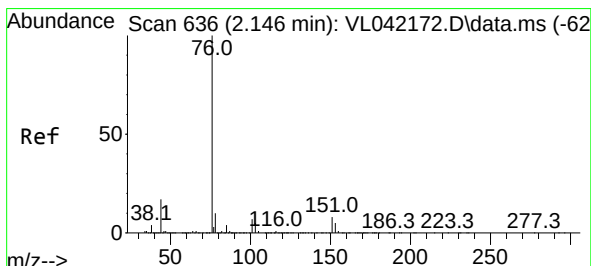
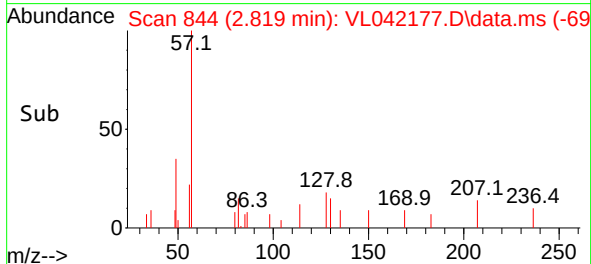
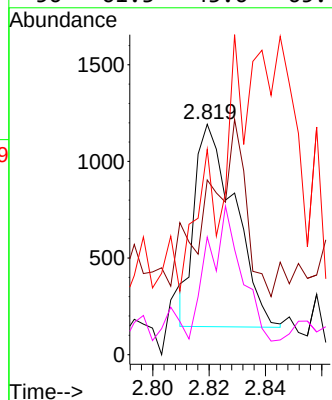
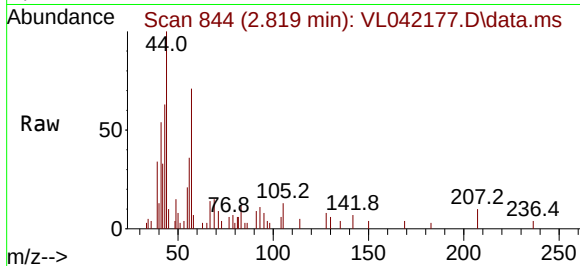




#26
Hexane
Concen: 0.042 ppbv
RT: 2.819 min Scan# 84
Delta R.T. -0.003 min
Lab File: VL042177.D
Acq: 27 Mar 2025 11:03

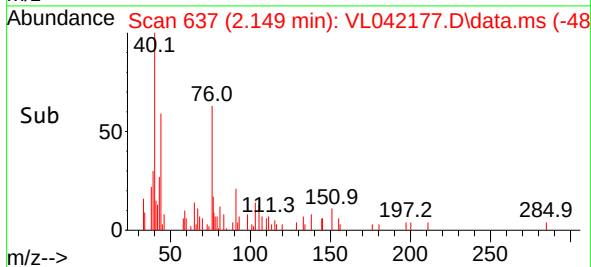
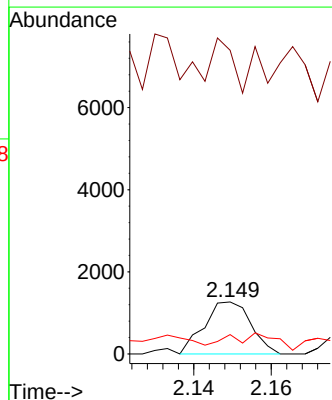
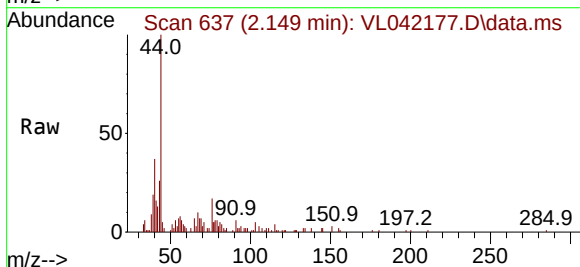
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

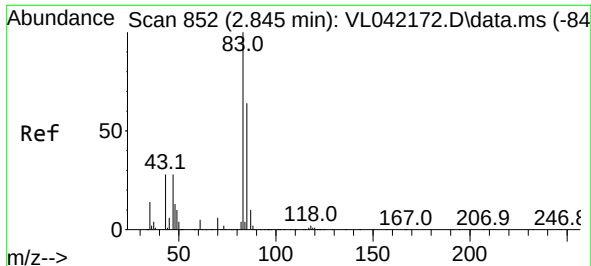
Tgt Ion: 57 Resp: 1040
Ion Ratio Lower Upper
57 100
41 179.4 76.6 114.8#
43 351.5 207.8 311.8#
56 61.3 43.6 65.4



#27
Carbon Disulfide
Concen: 0.040 ppbv
RT: 2.149 min Scan# 637
Delta R.T. 0.003 min
Lab File: VL042177.D
Acq: 27 Mar 2025 11:03

Tgt Ion: 76 Resp: 1061
Ion Ratio Lower Upper
76 100
44 0.0 14.7 22.1#
78 112.4 9.3 13.9#





#29

Chloroform

Concen: 0.044 ppbv

RT: 2.848 min Scan# 81

Delta R.T. 0.003 min

Lab File: VL042177.D

Acq: 27 Mar 2025 11:03

Instrument :

MSVOA_L

ClientSampleId :

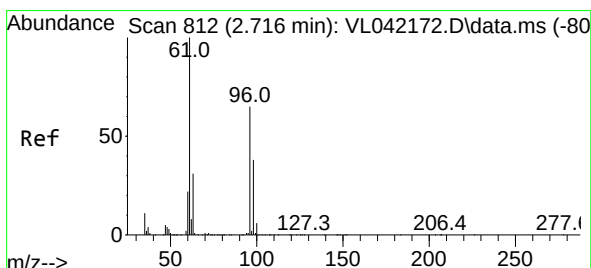
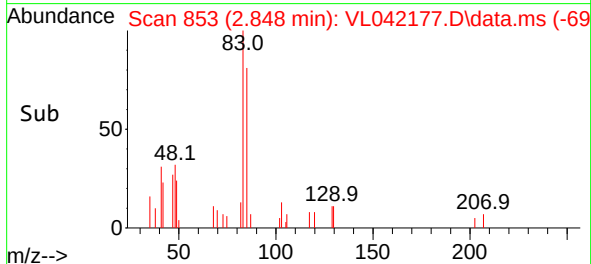
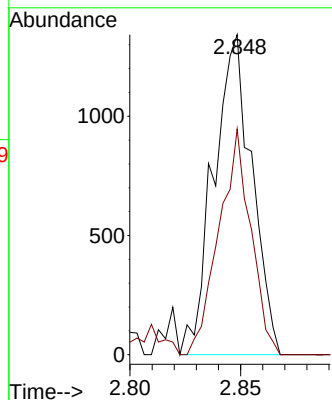
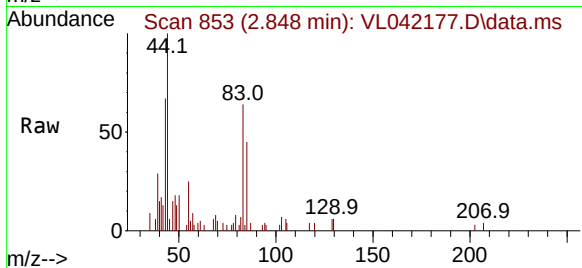
VSTDIC0.03

Tgt Ion: 83 Resp: 1619

Ion Ratio Lower Upper

83 100

85 70.6 51.4 77.2



#31

cis-1,2-Dichloroethene

Concen: 0.033 ppbv

RT: 2.719 min Scan# 813

Delta R.T. 0.003 min

Lab File: VL042177.D

Acq: 27 Mar 2025 11:03

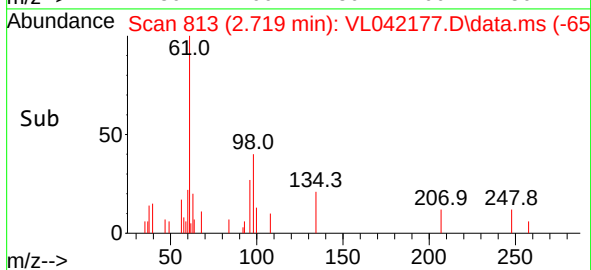
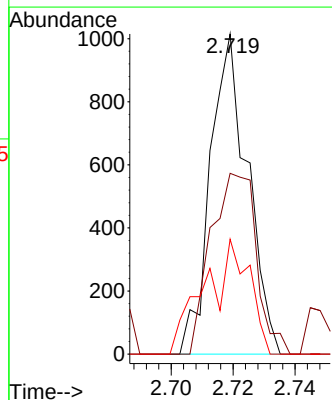
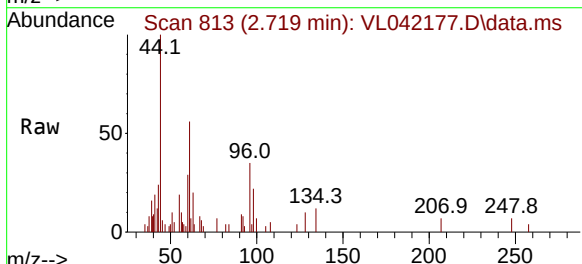
Tgt Ion: 61 Resp: 846

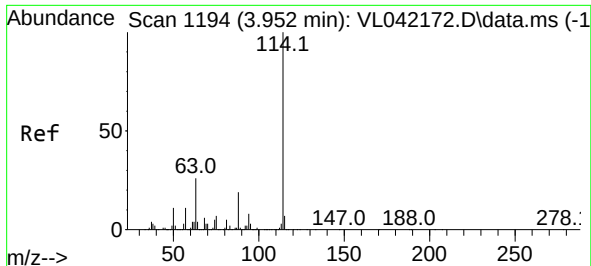
Ion Ratio Lower Upper

61 100

96 56.5 51.8 77.8

98 35.9 30.6 46.0





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.955 min Scan# 1195

Delta R.T. 0.003 min

Lab File: VL042177.D

Acq: 27 Mar 2025 11:03

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.03

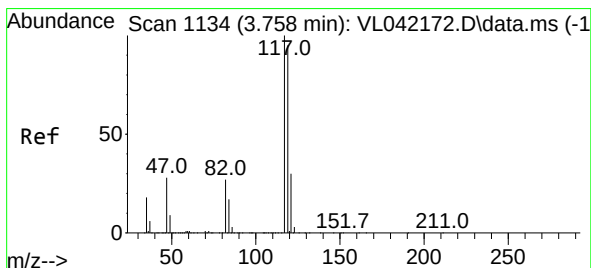
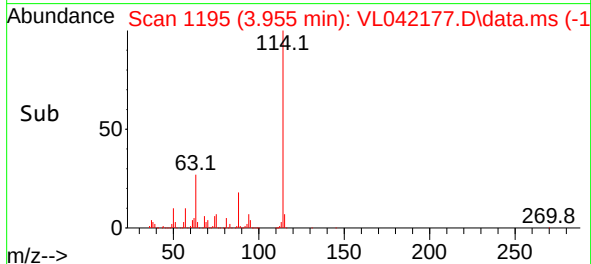
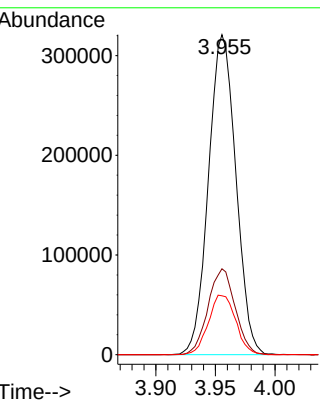
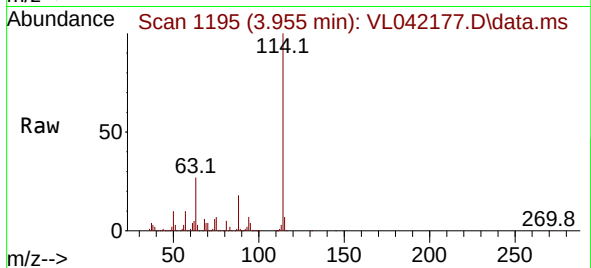
Tgt Ion:114 Resp: 512915

Ion Ratio Lower Upper

114 100

63 26.6 20.7 31.1

88 18.6 15.0 22.4



#35

Carbon Tetrachloride

Concen: 0.039 ppbv

RT: 3.758 min Scan# 1134

Delta R.T. -0.000 min

Lab File: VL042177.D

Acq: 27 Mar 2025 11:03

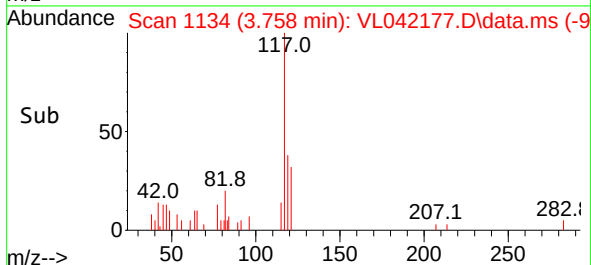
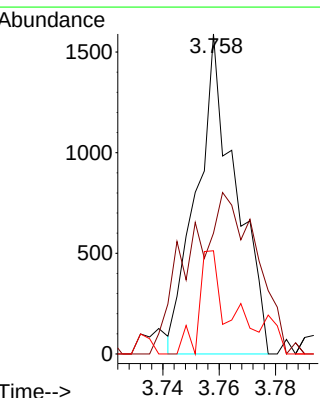
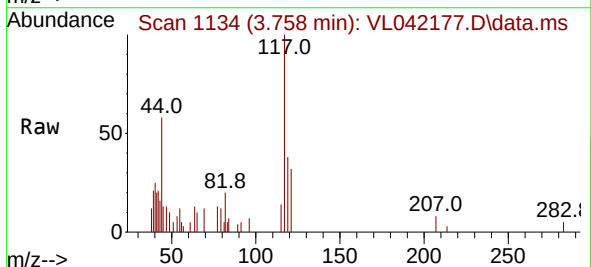
Tgt Ion:117 Resp: 1520

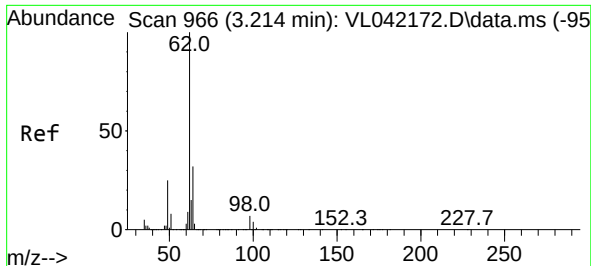
Ion Ratio Lower Upper

117 100

119 22.1 76.2 114.2#

121 32.3 24.2 36.4





#37

1,2-Dichloroethane

Concen: 0.035 ppbv

RT: 3.214 min Scan# 9

Delta R.T. -0.000 min

Lab File: VL042177.D

Acq: 27 Mar 2025 11:03

Instrument :

MSVOA_L

ClientSampleId :

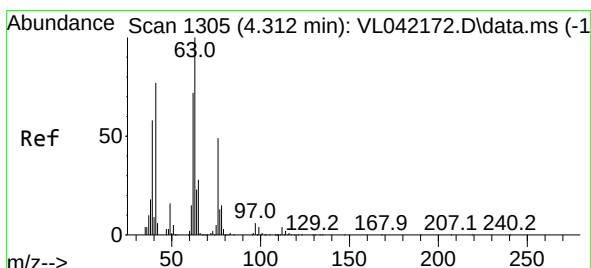
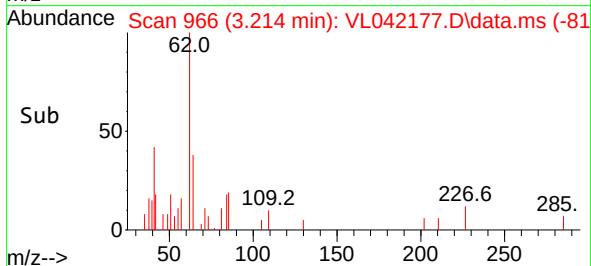
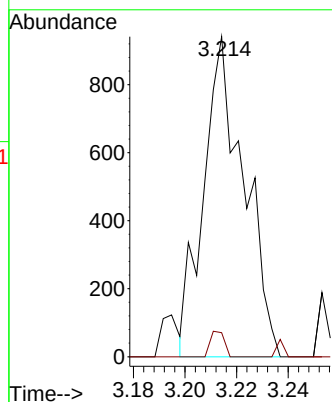
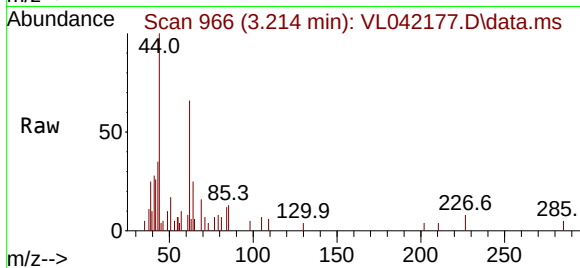
VSTDICC0.03

Tgt Ion: 62 Resp: 1029

Ion Ratio Lower Upper

62 100

98 2.7 5.4 8.2#



#39

1,2-Dichloropropane

Concen: 7.372 ppbv

RT: 3.955 min Scan# 1195

Delta R.T. -0.356 min

Lab File: VL042177.D

Acq: 27 Mar 2025 11:03

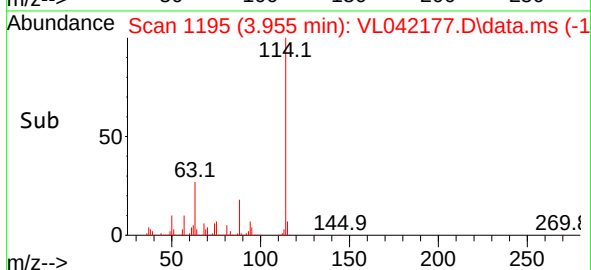
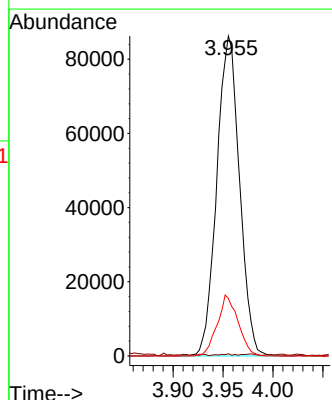
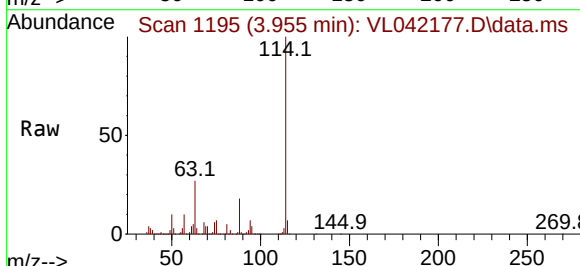
Tgt Ion: 63 Resp: 136518

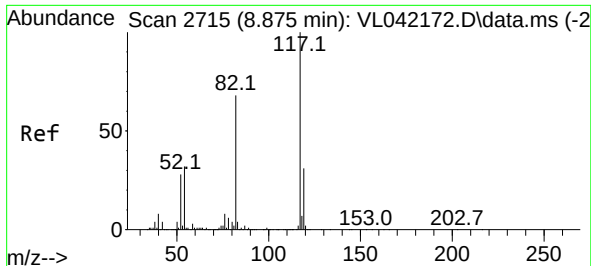
Ion Ratio Lower Upper

63 100

41 0.4 61.7 92.5#

62 18.0 57.6 86.4#

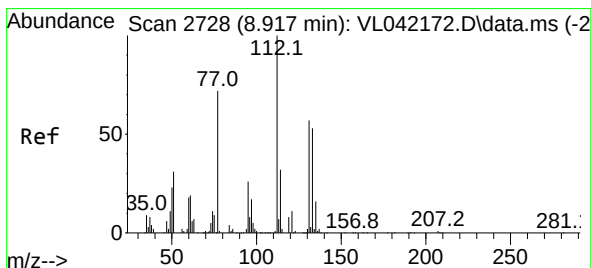
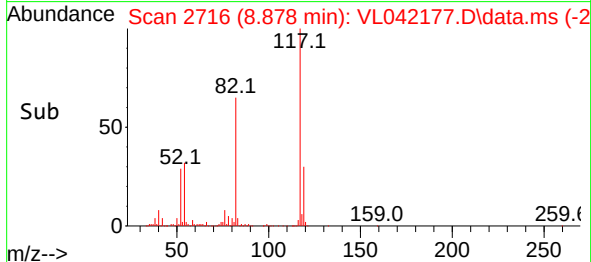
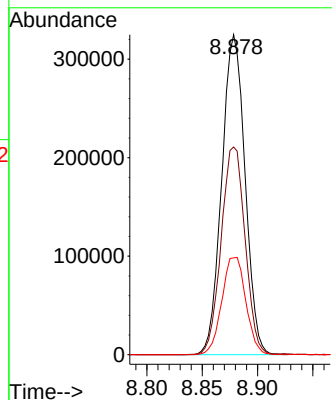
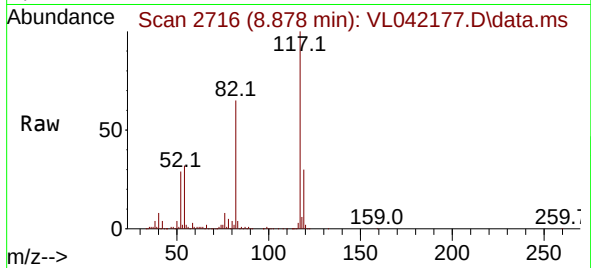




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.878 min Scan# 21
Delta R.T. 0.003 min
Lab File: VL042177.D
Acq: 27 Mar 2025 11:03

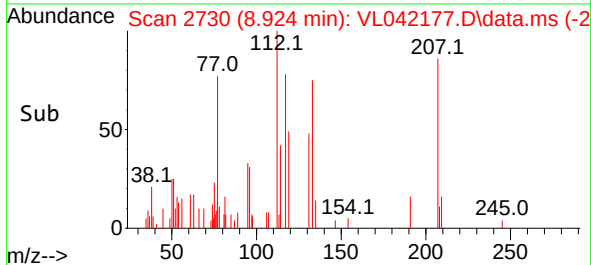
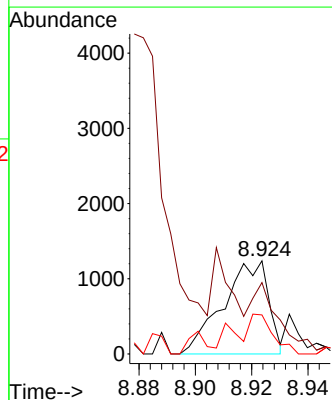
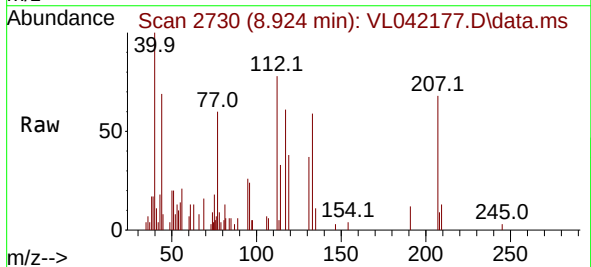
Instrument :
MSVOA_1
ClientSampleId :
VSTDICC0.03

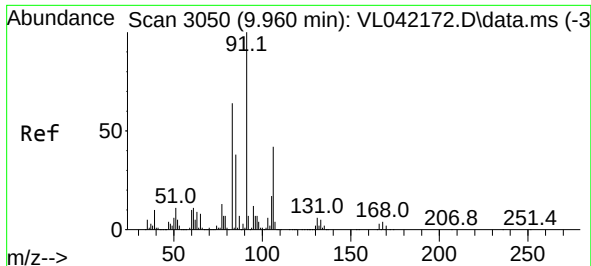
Tgt Ion:117 Resp: 475617
Ion Ratio Lower Upper
117 100
82 66.7 55.8 83.6
119 31.5 25.5 38.3



#57
Chlorobenzene
Concen: 0.031 ppbv
RT: 8.924 min Scan# 2730
Delta R.T. 0.006 min
Lab File: VL042177.D
Acq: 27 Mar 2025 11:03

Tgt Ion:112 Resp: 1382
Ion Ratio Lower Upper
112 100
77 32.1 58.2 87.2#
114 41.8 29.1 35.5#

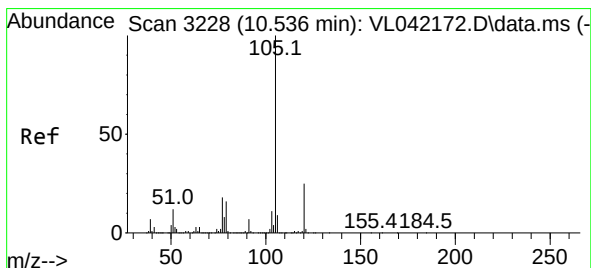
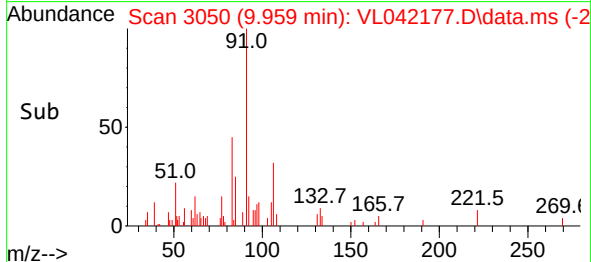
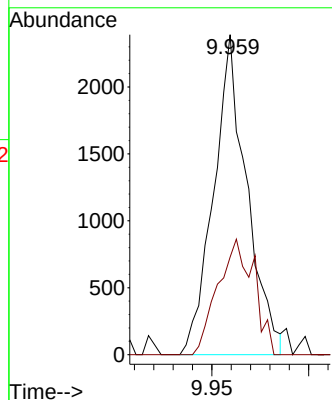
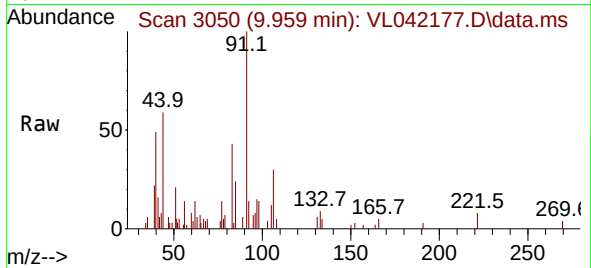




#60
o-Xylene
Concen: 0.042 ppbv
RT: 9.959 min Scan# 3050
Delta R.T. -0.000 min
Lab File: VL042177.D
Acq: 27 Mar 2025 11:03

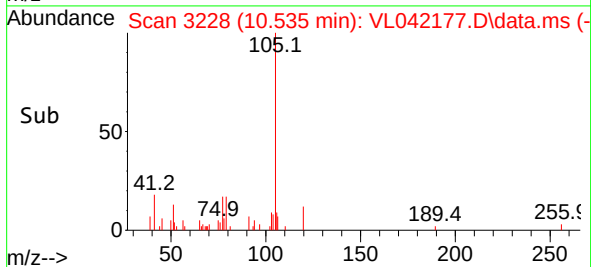
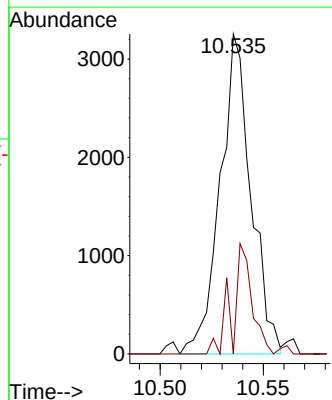
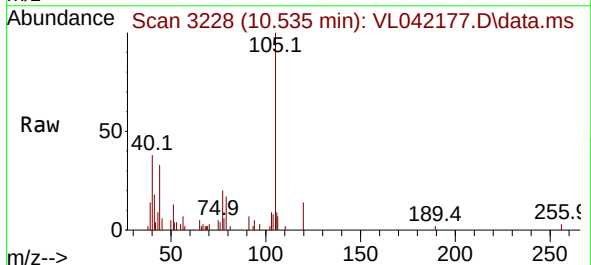
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03

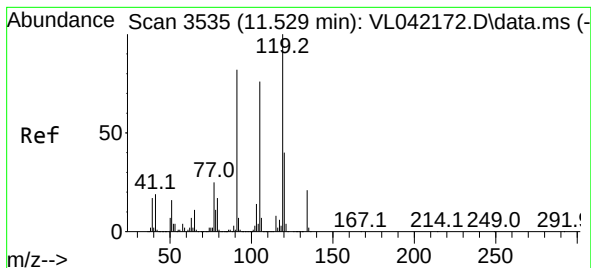
Tgt Ion: 91 Resp: 2844
Ion Ratio Lower Upper
91 100
106 39.4 20.8 62.5



#62
Isopropylbenzene
Concen: 0.033 ppbv
RT: 10.535 min Scan# 3228
Delta R.T. -0.000 min
Lab File: VL042177.D
Acq: 27 Mar 2025 11:03

Tgt Ion: 105 Resp: 3380
Ion Ratio Lower Upper
105 100
120 22.3 19.9 29.9

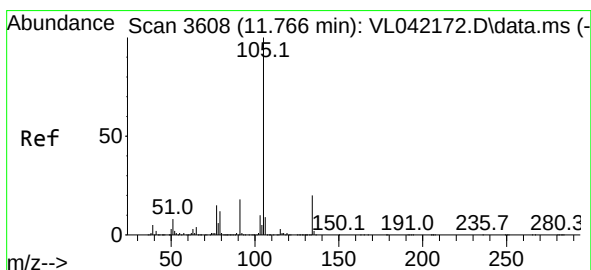
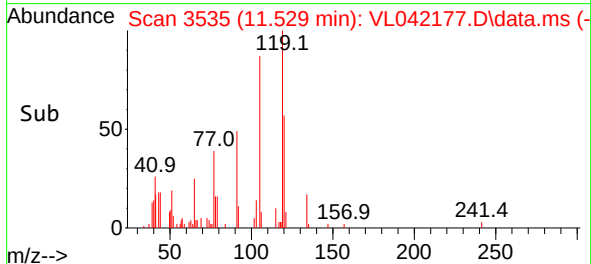
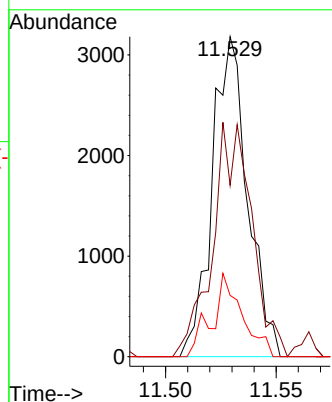
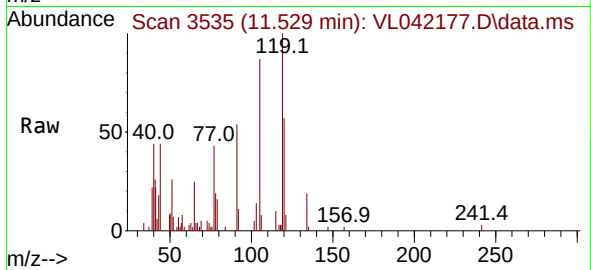




#65
tert-Butylbenzene
Concen: 0.038 ppbv
RT: 11.529 min Scan# 3535
Delta R.T. -0.000 min
Lab File: VL042177.D
Acq: 27 Mar 2025 11:03

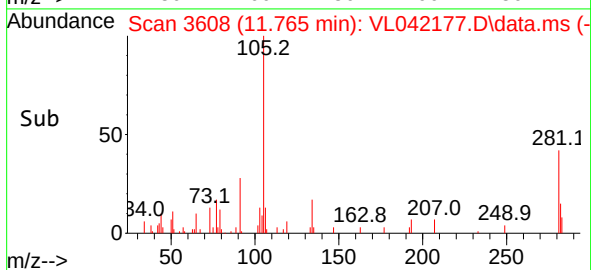
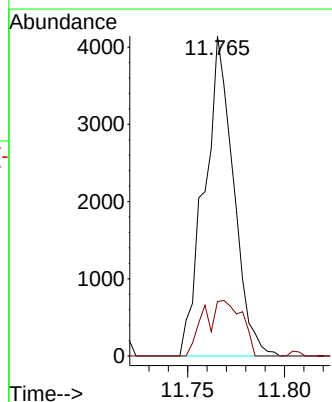
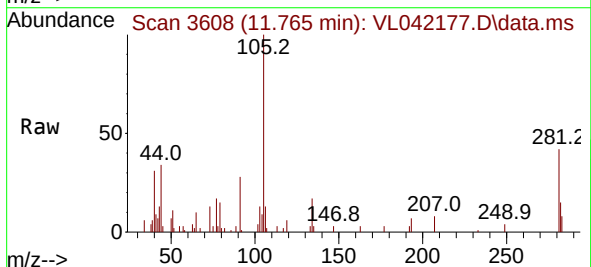
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03

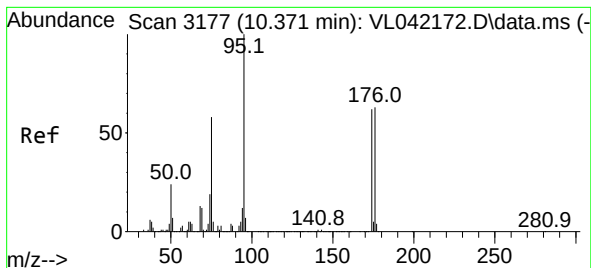
Tgt Ion:119 Resp: 3543
Ion Ratio Lower Upper
119 100
91 83.5 66.0 99.0
134 22.4 16.7 25.1



#67
sec-Butylbenzene
Concen: 0.033 ppbv
RT: 11.765 min Scan# 3608
Delta R.T. -0.000 min
Lab File: VL042177.D
Acq: 27 Mar 2025 11:03

Tgt Ion:105 Resp: 4317
Ion Ratio Lower Upper
105 100
134 22.8 15.5 23.3

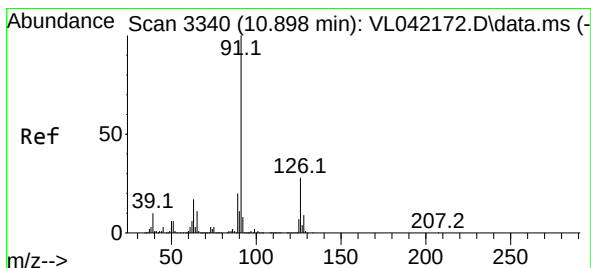
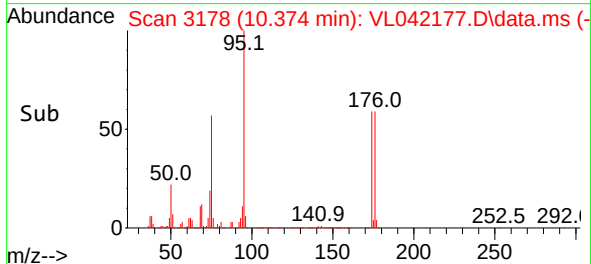
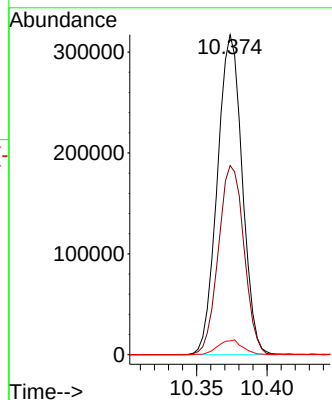
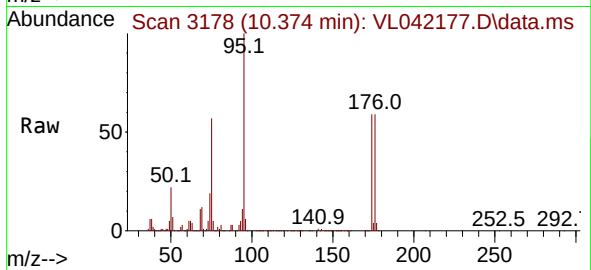




#68
1-Bromo-4-Fluorobenzene
Concen: 9.983 ppbv
RT: 10.374 min Scan# 3177
Delta R.T. 0.003 min
Lab File: VL042177.D
Acq: 27 Mar 2025 11:03

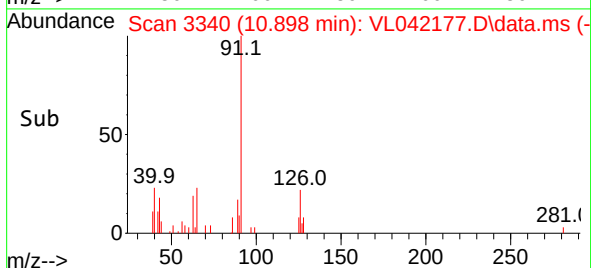
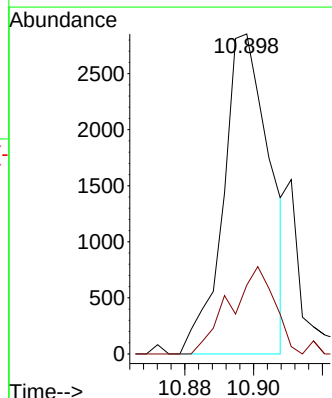
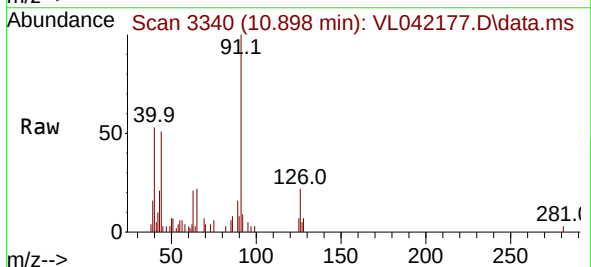
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03

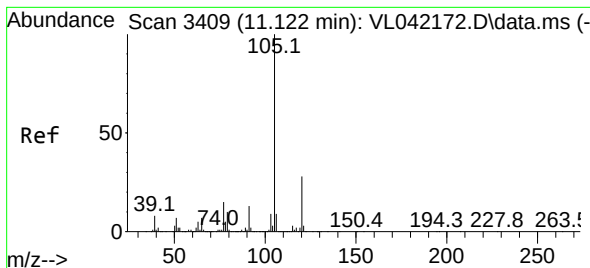
Tgt Ion: 95 Resp: 389935
Ion Ratio Lower Upper
95 100
174 61.2 50.6 76.0
175 4.6 3.8 5.6



#71
2-Chlorotoluene
Concen: 0.034 ppbv
RT: 10.898 min Scan# 3340
Delta R.T. -0.000 min
Lab File: VL042177.D
Acq: 27 Mar 2025 11:03

Tgt Ion: 91 Resp: 2666
Ion Ratio Lower Upper
91 100
126 27.2 11.6 46.4

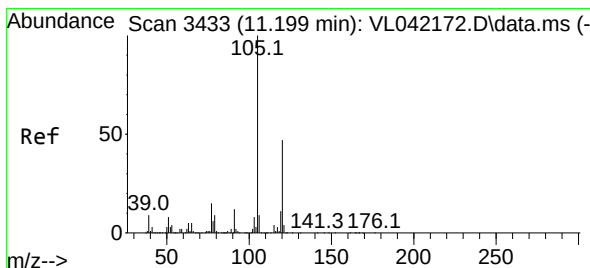
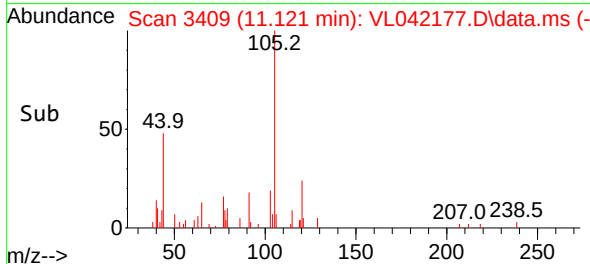
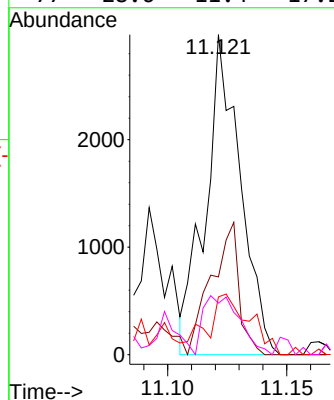
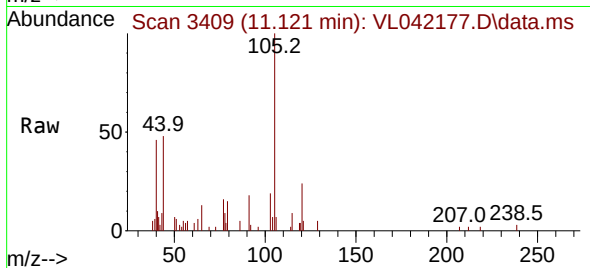




#72
4-Ethyltoluene
Concen: 0.036 ppbv
RT: 11.121 min Scan# 3409
Delta R.T. -0.000 min
Lab File: VL042177.D
Acq: 27 Mar 2025 11:03

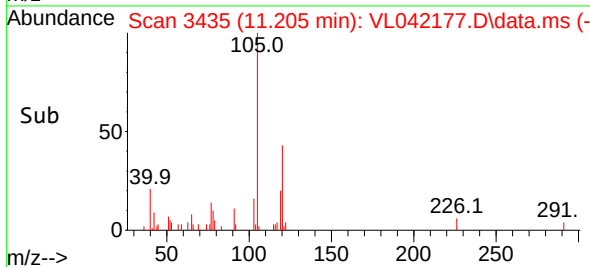
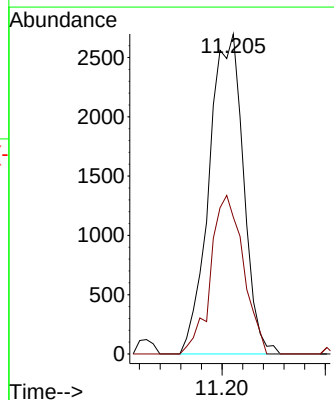
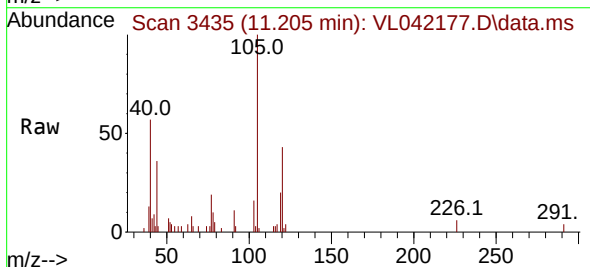
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03

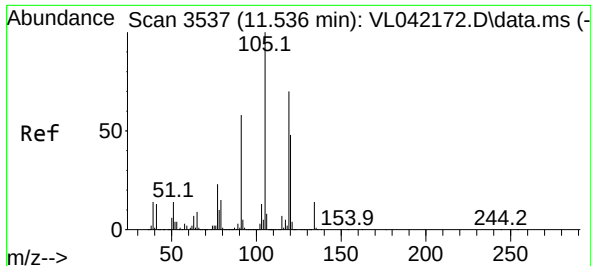
Tgt Ion:	105	Resp:	3017
Ion	Ratio	Lower	Upper
105	100		
120	44.5	23.4	35.0#
91	34.0	10.3	15.5#
77	28.6	11.4	17.2#



#73
1,3,5-Trimethylbenzene
Concen: 0.042 ppbv
RT: 11.205 min Scan# 3435
Delta R.T. 0.006 min
Lab File: VL042177.D
Acq: 27 Mar 2025 11:03

Tgt Ion:	105	Resp:	3101
Ion	Ratio	Lower	Upper
105	100		
120	42.8	37.4	56.0

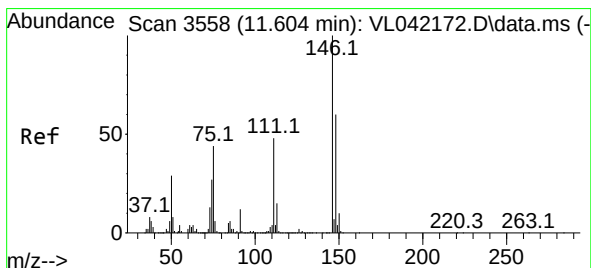
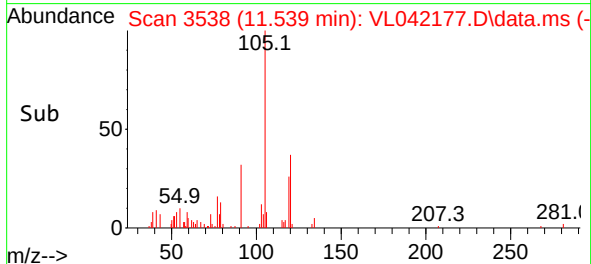
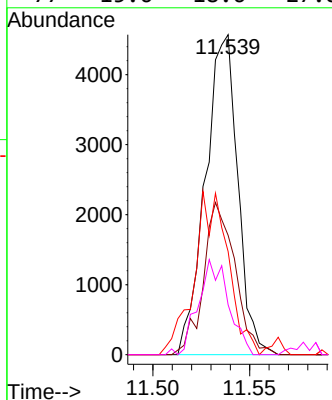
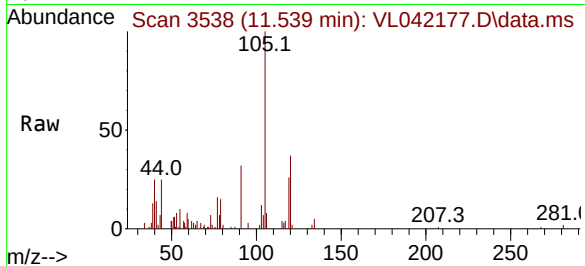




#74
1,2,4-Trimethylbenzene
Concen: 0.063 ppbv
RT: 11.539 min Scan# 3537
Delta R.T. 0.003 min
Lab File: VL042177.D
Acq: 27 Mar 2025 11:03

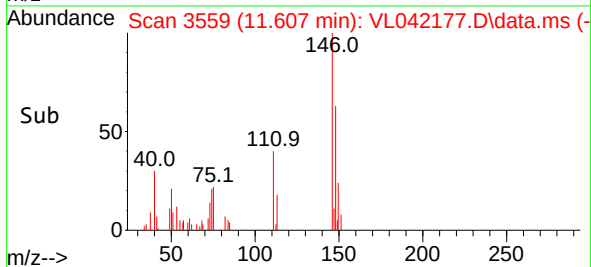
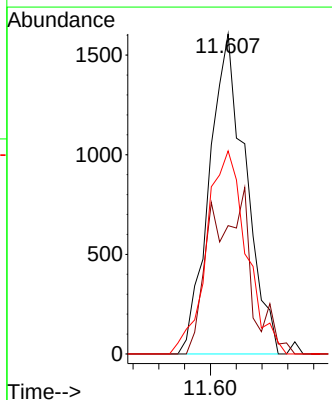
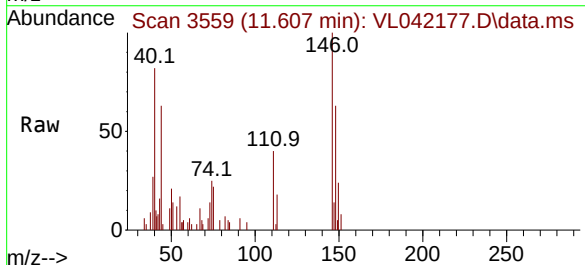
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.03

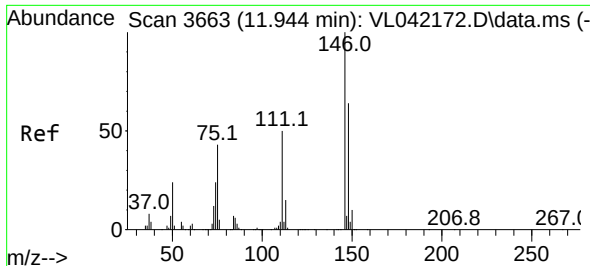
Tgt Ion:	105	Resp:	5313
Ion	Ratio	Lower	Upper
105	100		
120	37.3	38.6	58.0#
91	26.8	46.2	69.2#
77	15.6	18.6	27.8#



#75
1,3-Dichlorobenzene
Concen: 0.034 ppbv
RT: 11.607 min Scan# 3559
Delta R.T. 0.003 min
Lab File: VL042177.D
Acq: 27 Mar 2025 11:03

Tgt Ion:	146	Resp:	1577
Ion	Ratio	Lower	Upper
146	100		
111	56.6	23.8	71.2
148	69.2	31.9	95.9

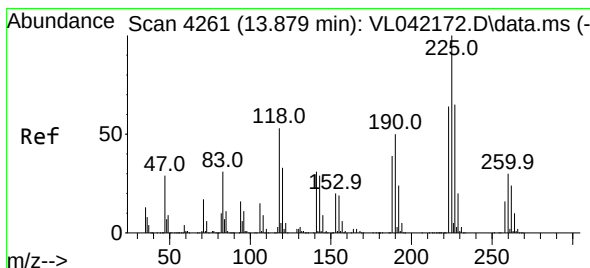
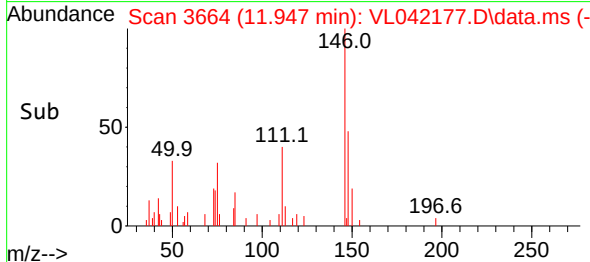
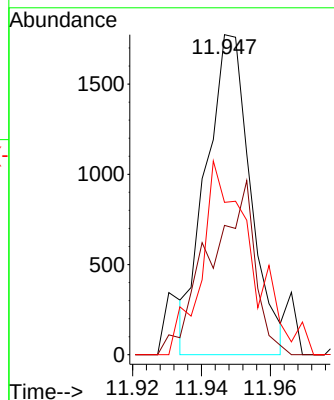
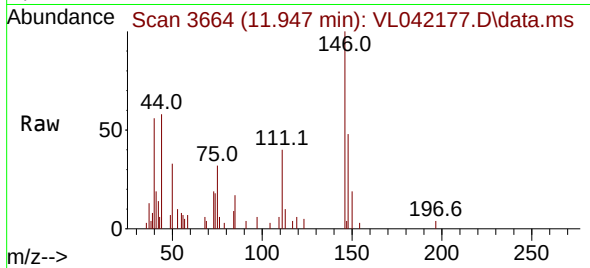




#77
1,2-Dichlorobenzene
Concen: 0.035 ppbv
RT: 11.947 min Scan# 3664
Delta R.T. 0.003 min
Lab File: VL042177.D
Acq: 27 Mar 2025 11:03

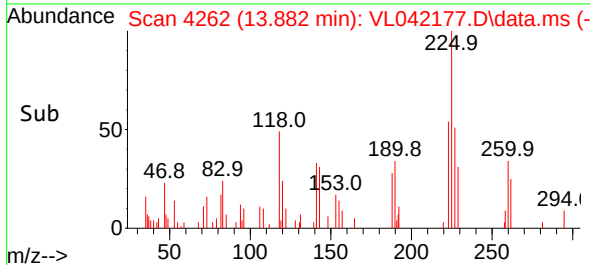
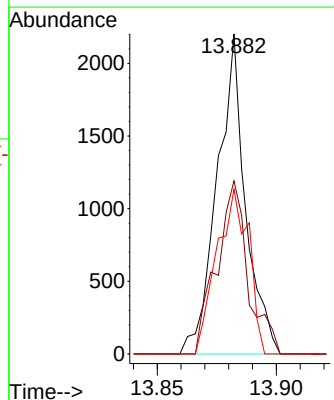
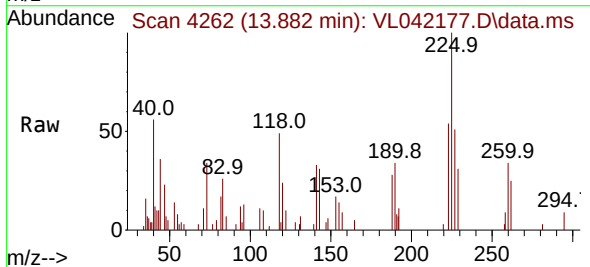
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03

Tgt Ion:	146	Resp:	1591
Ion	Ratio	Lower	Upper
146	100		
111	55.6	24.8	74.3
148	68.3	31.6	94.8



#78
Hexachloro-1,3-Butadiene
Concen: 0.040 ppbv
RT: 13.882 min Scan# 4262
Delta R.T. 0.003 min
Lab File: VL042177.D
Acq: 27 Mar 2025 11:03

Tgt Ion:	225	Resp:	1821
Ion	Ratio	Lower	Upper
225	100		
223	59.6	50.6	76.0
227	58.0	51.2	76.8



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
 Data File : VL042178.D
 Acq On : 27 Mar 2025 11:36
 Operator : SY/MD
 Sample : VSTDIC015
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Quant Time: Mar 28 01:37:01 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri Mar 28 01:31:23 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.784	49	173372	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.952	114	499360	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.878	117	473077	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.374	95	387777	9.981	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.800%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.495	85	358962	14.023	ppbv	99
3) Chlorodifluoromethane	1.473	51	366164	14.002	ppbv	98
4) Chloromethane	1.531	50	148133	14.160	ppbv	98
5) Vinyl Chloride	1.576	62	141938	13.304	ppbv	97
6) Bromomethane	1.667	94	65113	13.734	ppbv	99
7) Chloroethane	1.703	64	58820	14.007	ppbv	99
8) Dichlorotetrafluoroethane	1.550	85	314834	14.442	ppbv	98
9) Propene	1.482	41	163799	13.902	ppbv	95
10) Heptane	4.972	43	446949	14.019	ppbv	99
11) Trichlorofluoromethane	1.874	101	349967	14.050	ppbv	98
12) 1,1,2-Trichlorotrifluo...	2.136	101	295217	14.419	ppbv	99
13) Ethanol	1.719	45	7382	8.001	ppbv	92
14) Bromoethene	1.780	108	106436	13.571	ppbv	98
15) Acetone	1.832	43	296254	12.218	ppbv	98
16) 1,3-Butadiene	1.605	39	150122	13.766	ppbv	100
17) tert-Butyl alcohol	2.039	59	416362	13.787	ppbv	99
18) 1,1-Dichloroethene	2.029	96	131720	13.762	ppbv	99
19) Isopropyl Alcohol	1.884	45	179117	13.093	ppbv	100
20) Methylene Chloride	2.059	84	113183	12.533	ppbv	95
21) Allyl Chloride	2.094	41	239440	14.002	ppbv	99
22) trans-1,2-Dichloroethene	2.337	96	149455	13.362	ppbv	98
23) Vinyl Acetate	2.460	43	138419	13.736	ppbv #	96
24) 1,1-Dichloroethane	2.405	63	298760	14.570	ppbv	99
25) Ethyl Acetate	2.832	43	871882	13.855	ppbv	100
26) Hexane	2.822	57	344636	14.178	ppbv	98
27) Carbon Disulfide	2.146	76	370022	14.196	ppbv	97
28) Methyl tert-Butyl Ether	2.437	73	216463	14.303	ppbv	95
29) Chloroform	2.845	83	508614	14.297	ppbv	100
30) Cyclohexane	3.852	84	296458	14.040	ppbv	99
31) cis-1,2-Dichloroethene	2.719	61	351945	14.262	ppbv	97
32) 1,1,1-Trichloroethane	3.363	97	547329	13.448	ppbv	99
34) 2-Butanone	2.554	43	497020	13.726	ppbv	99
35) Carbon Tetrachloride	3.758	117	543385	14.140	ppbv	100
36) Benzene	3.651	78	699549	14.131	ppbv	98
37) 1,2-Dichloroethane	3.214	62	416544	14.697	ppbv	99
38) Trichloroethene	4.541	130	283430	13.715	ppbv	98
39) 1,2-Dichloropropane	4.308	63	257891	14.304	ppbv	99
40) 1,4-Dioxane	4.577	88	124925	13.354	ppbv #	91
41) Tetrahydrofuran	3.049	42	294634	14.301	ppbv	100
42) Bromodichloromethane	4.483	83	587772	15.043	ppbv	99
43) Methyl Methacrylate	4.874	69	295300	14.130	ppbv	99
44) 2,2,4-Trimethylpentane	4.635	57	1180275	14.108	ppbv	99
45) t-1,3-Dichloropropene	6.405	75	329360	14.649	ppbv	96

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
 Data File : VL042178.D
 Acq On : 27 Mar 2025 11:36
 Operator : SY/MD
 Sample : VSTDIC015
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

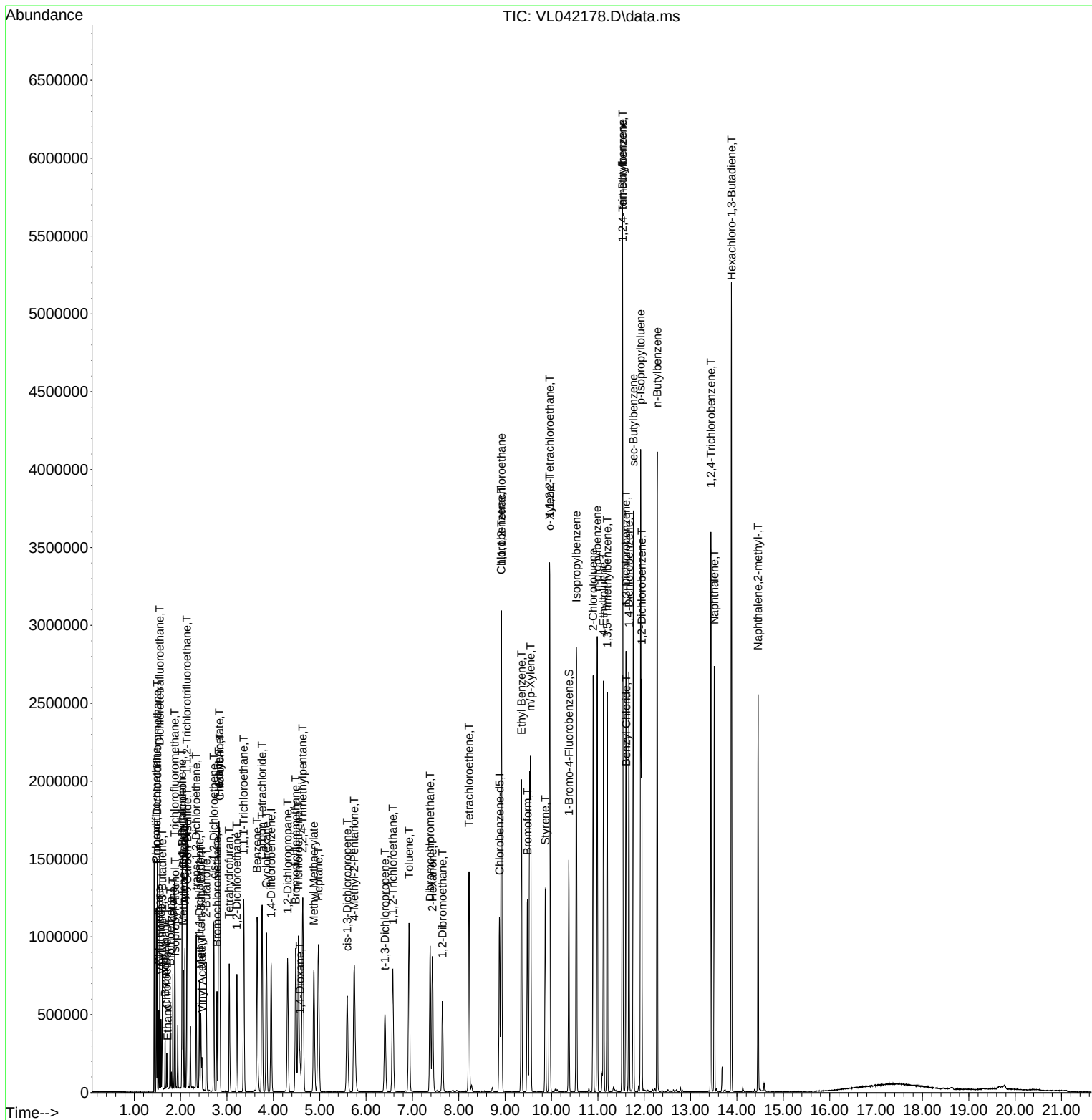
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

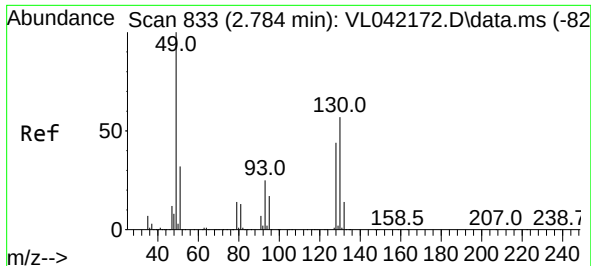
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 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri Mar 28 01:31:23 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.593	75	400813	14.542	ppbv	98
47) 1,1,2-Trichloroethane	6.577	97	273137	14.331	ppbv	98
48) Dibromochloromethane	7.383	129	482431	14.936	ppbv	100
49) Bromoform	9.480	173	427143	14.730	ppbv	99
50) 4-Methyl-2-Pentanone	5.745	43	755146	13.155	ppbv	99
51) 2-Hexanone	7.431	43	619419	13.005	ppbv #	99
52) Tetrachloroethene	8.221	164	258356	13.159	ppbv	95
53) Toluene	6.926	91	829648	14.137	ppbv	100
54) 1,2-Dibromoethane	7.645	107	381823	14.359	ppbv	97
56) 1,1,1,2-Tetrachloroethane	8.920	131	365410	14.032	ppbv	99
57) Chlorobenzene	8.917	112	618201	13.777	ppbv	100
58) Ethyl Benzene	9.351	91	1167096	13.889	ppbv	97
59) m/p-Xylene	9.548	91	866684	12.901	ppbv #	22
60) o-Xylene	9.962	91	913234	13.577	ppbv	99
61) Styrene	9.865	104	474195	14.250	ppbv	99
62) Isopropylbenzene	10.535	105	1362416	13.544	ppbv	99
63) 1,1,2,2-Tetrachloroethane	9.959	83	551386	13.491	ppbv	99
64) n-propylbenzene	10.985	120	356118	13.753	ppbv	94
65) tert-Butylbenzene	11.529	119	1200149	12.901	ppbv	98
66) Benzyl Chloride	11.613	91	134397	13.615	ppbv	100
67) sec-Butylbenzene	11.765	105	1643629	12.711	ppbv	99
69) p-Isopropyltoluene	11.924	119	1437016	12.906	ppbv	98
70) n-Butylbenzene	12.280	91	1477443	12.975	ppbv	99
71) 2-Chlorotoluene	10.898	91	1071432	13.724	ppbv	99
72) 4-Ethyltoluene	11.121	105	1136415	13.569	ppbv	99
73) 1,3,5-Trimethylbenzene	11.202	105	979783	13.395	ppbv	99
74) 1,2,4-Trimethylbenzene	11.535	105	1048874	12.447	ppbv	92
75) 1,3-Dichlorobenzene	11.607	146	626015	13.545	ppbv	99
76) 1,4-Dichlorobenzene	11.668	146	628694	13.668	ppbv	100
77) 1,2-Dichlorobenzene	11.947	146	602844	13.396	ppbv	100
78) Hexachloro-1,3-Butadiene	13.882	225	556392	12.147	ppbv	99
79) Naphthalene	13.513	128	1258479	13.653	ppbv	98
80) Naphthalene,2-methyl-	14.455	142	718900	16.018	ppbv	98
81) 1,2,4-Trichlorobenzene	13.439	180	598416	14.075	ppbv	99

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

Quant Time: Mar 28 01:37:01 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Mar 28 01:31:23 2025
Response via : Initial Calibration

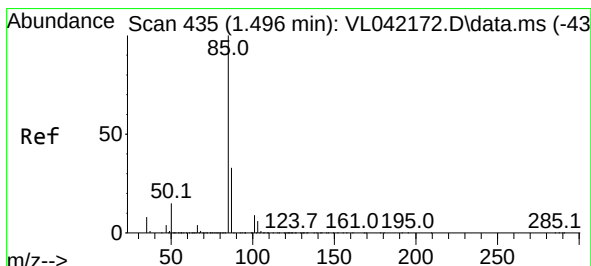
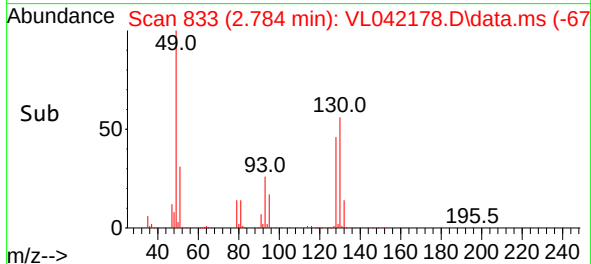
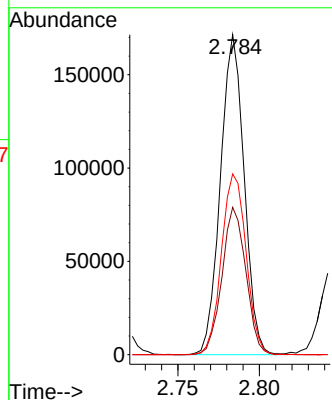
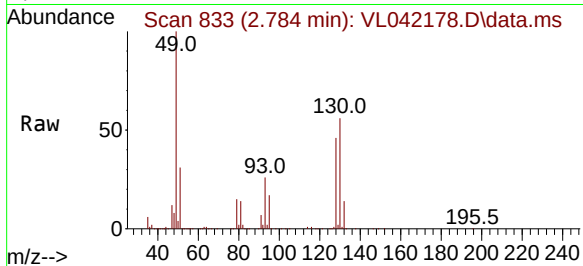




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 81
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

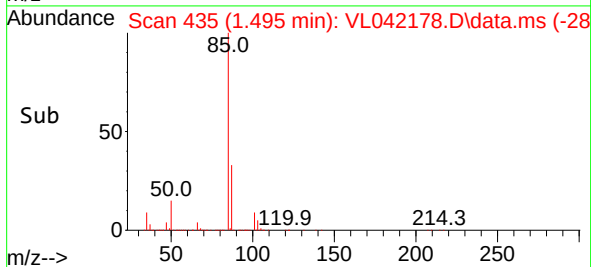
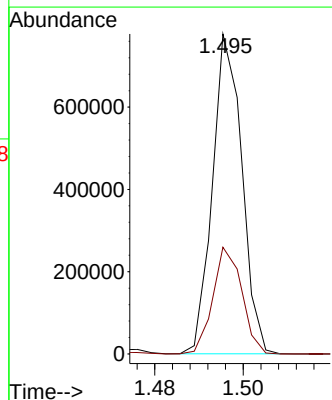
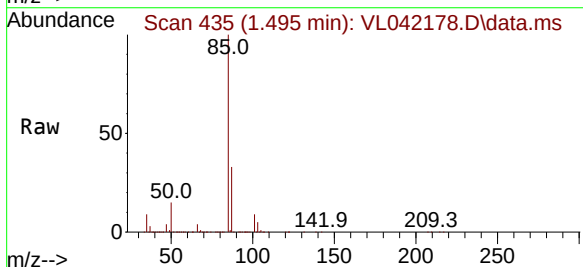
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

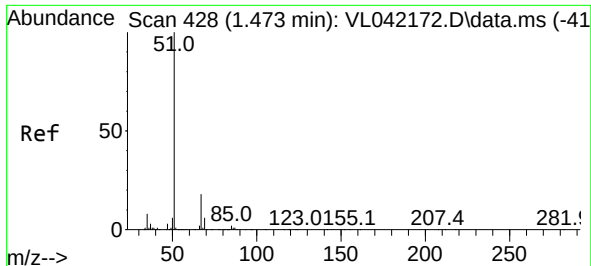
Tgt Ion: 49 Resp: 173372
Ion Ratio Lower Upper
49 100
128 46.4 22.9 68.5
130 58.7 28.8 86.4



#2
Dichlorodifluoromethane
Concen: 14.023 ppbv
RT: 1.495 min Scan# 435
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

Tgt Ion: 85 Resp: 358962
Ion Ratio Lower Upper
85 100
87 33.4 26.1 39.1

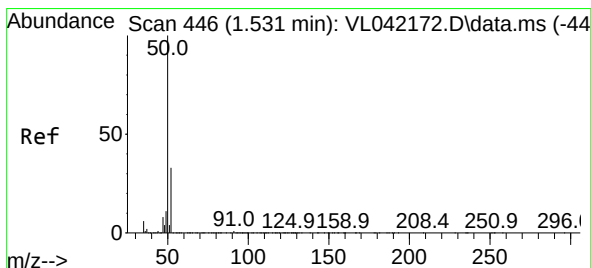
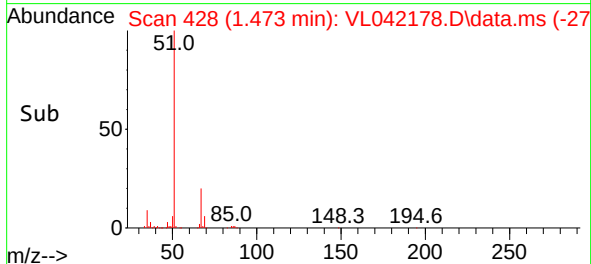
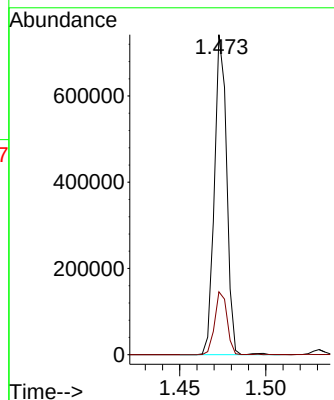
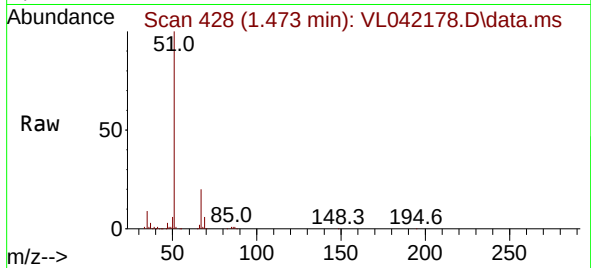




#3
Chlorodifluoromethane
Concen: 14.002 ppbv
RT: 1.473 min Scan# 41
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

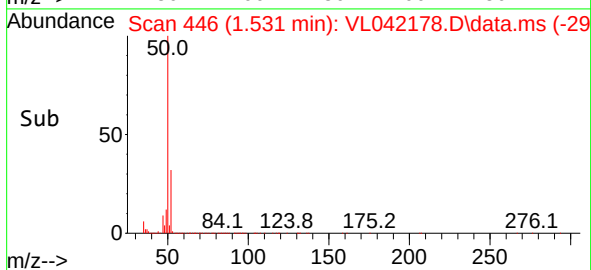
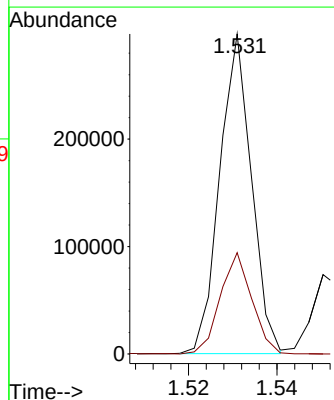
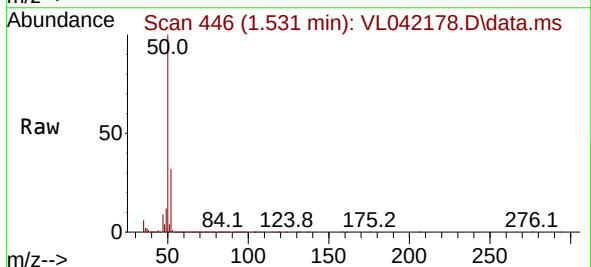
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MSVOA_L
ClientSampleId :
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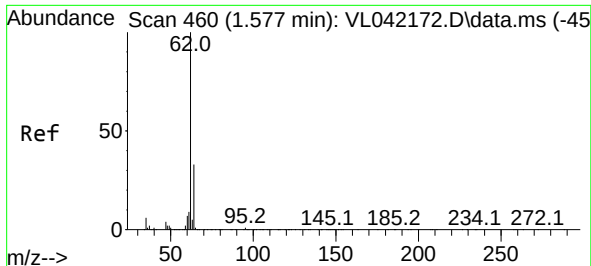
Tgt Ion: 51 Resp: 366164
Ion Ratio Lower Upper
51 100
67 19.8 15.0 22.6



#4
Chloromethane
Concen: 14.160 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

Tgt Ion: 50 Resp: 148133
Ion Ratio Lower Upper
50 100
52 31.6 26.1 39.1

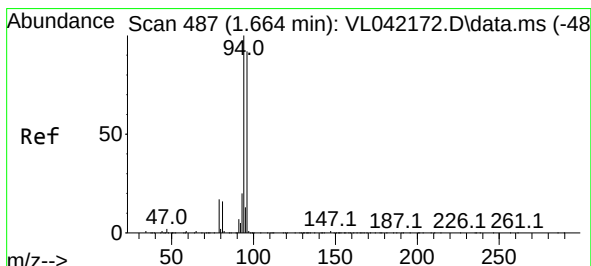
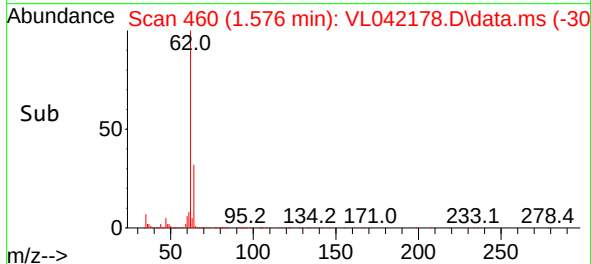
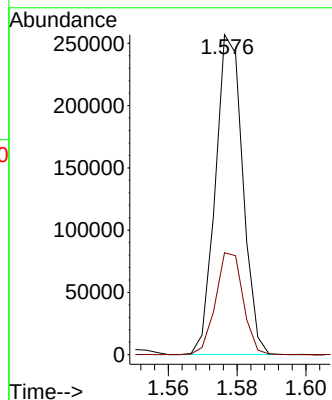
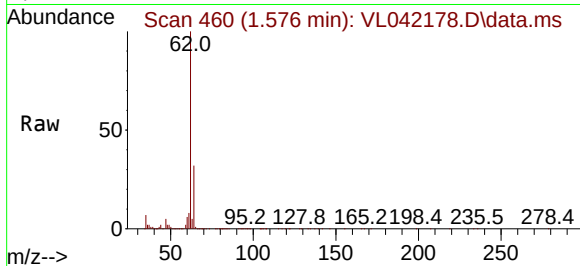




#5
 Vinyl Chloride
 Concen: 13.304 ppbv
 RT: 1.576 min Scan# 460
 Delta R.T. -0.000 min
 Lab File: VL042178.D
 Acq: 27 Mar 2025 11:36

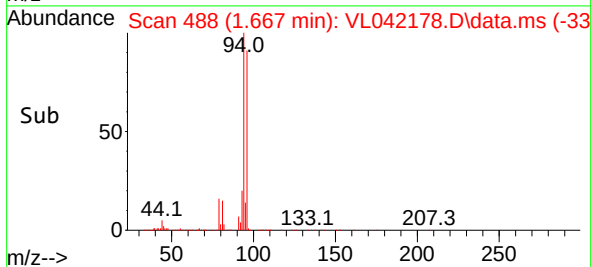
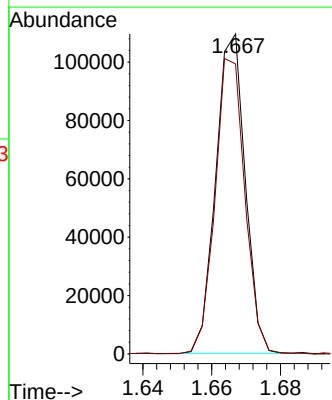
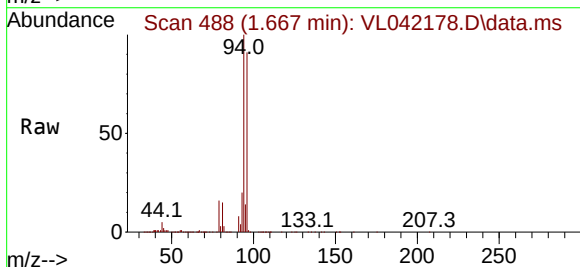
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC015

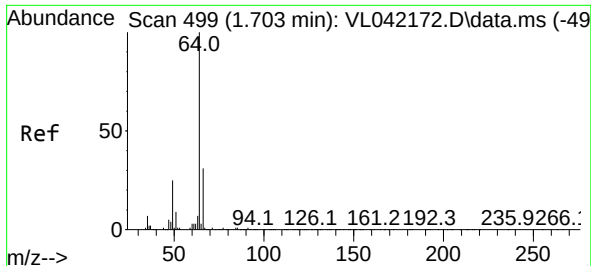
Tgt Ion: 62 Resp: 141938
 Ion Ratio Lower Upper
 62 100
 64 31.9 26.6 40.0



#6
 Bromomethane
 Concen: 13.734 ppbv
 RT: 1.667 min Scan# 488
 Delta R.T. 0.003 min
 Lab File: VL042178.D
 Acq: 27 Mar 2025 11:36

Tgt Ion: 94 Resp: 65113
 Ion Ratio Lower Upper
 94 100
 96 90.7 73.1 109.7

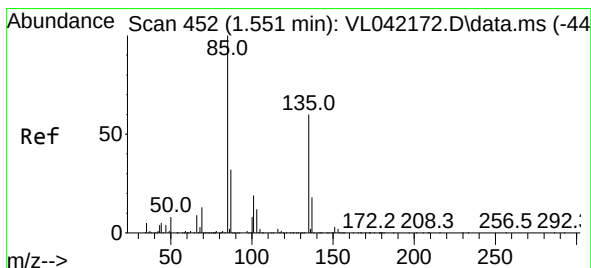
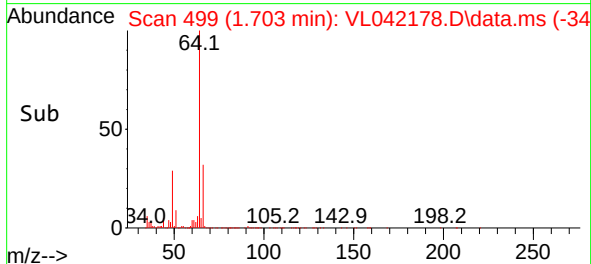
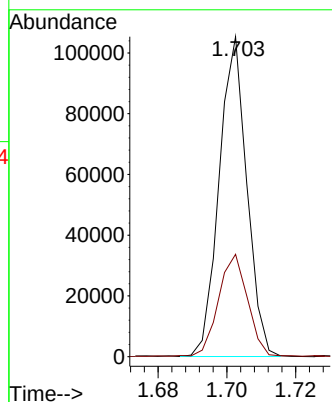
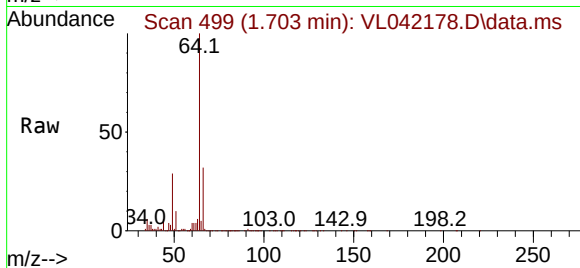




#7
Chloroethane
Concen: 14.007 ppbv
RT: 1.703 min Scan# 499
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

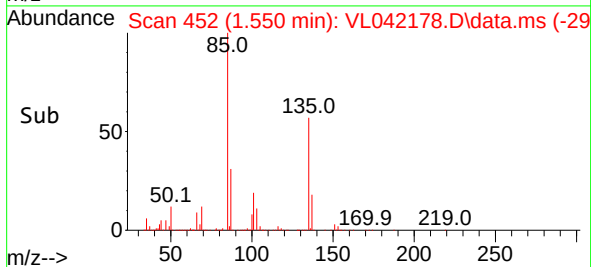
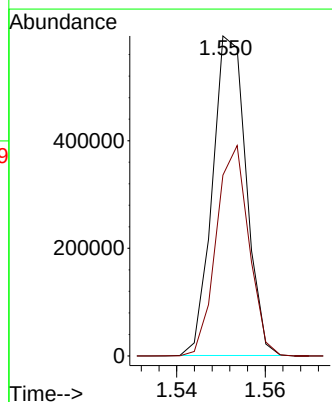
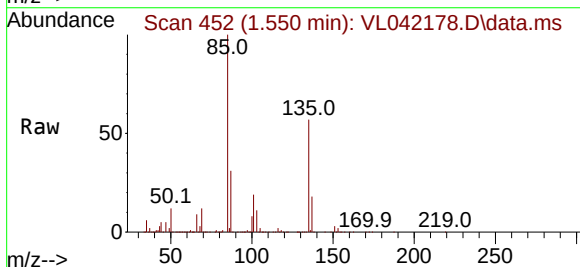
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

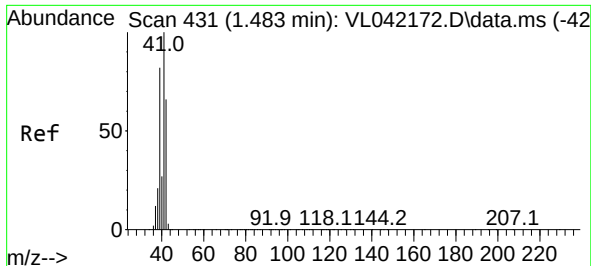
Tgt Ion: 64 Resp: 58820
Ion Ratio Lower Upper
64 100
66 32.0 25.2 37.8



#8
Dichlorotetrafluoroethane
Concen: 14.442 ppbv
RT: 1.550 min Scan# 452
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

Tgt Ion: 85 Resp: 314834
Ion Ratio Lower Upper
85 100
135 63.8 52.4 78.6

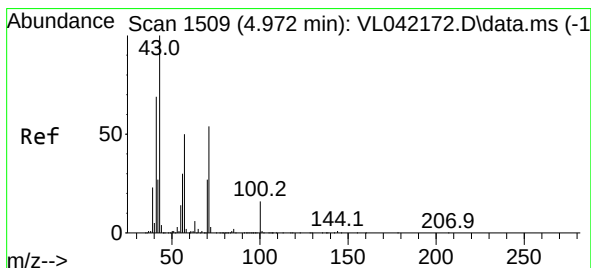
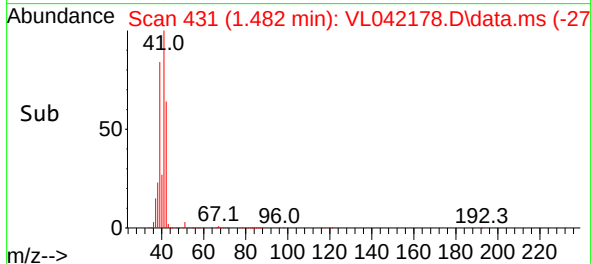
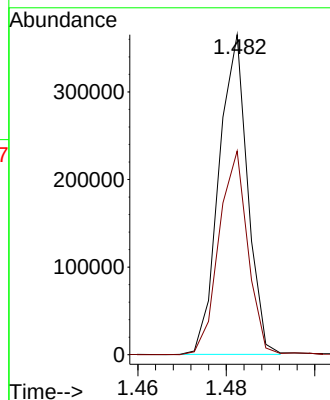
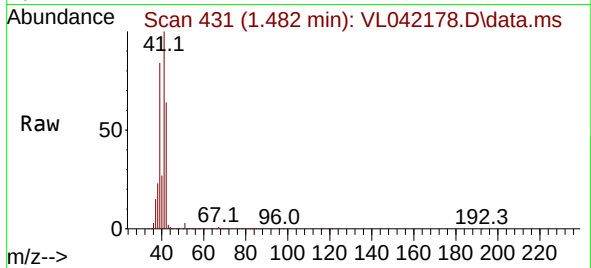




#9
 Propene
 Concen: 13.902 ppbv
 RT: 1.482 min Scan# 41
 Delta R.T. -0.000 min
 Lab File: VL042178.D
 Acq: 27 Mar 2025 11:36

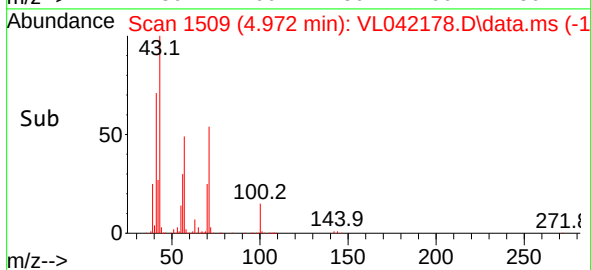
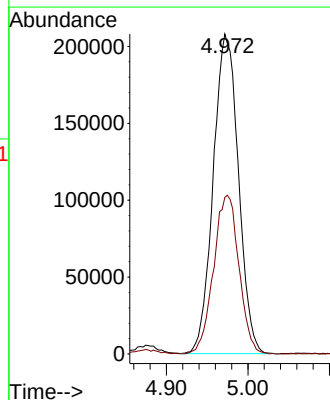
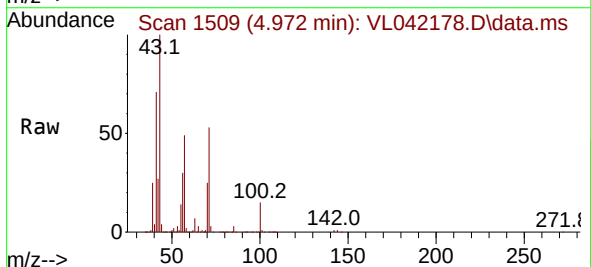
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

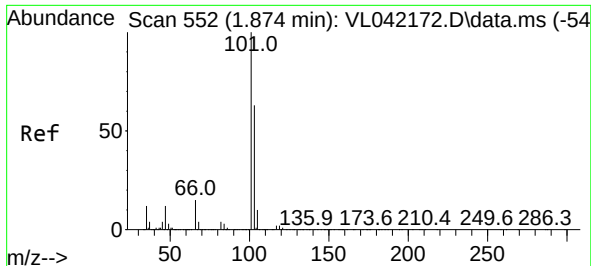
Tgt Ion: 41 Resp: 163799
 Ion Ratio Lower Upper
 41 100
 42 65.3 55.4 83.2



#10
 Heptane
 Concen: 14.019 ppbv
 RT: 4.972 min Scan# 1509
 Delta R.T. -0.000 min
 Lab File: VL042178.D
 Acq: 27 Mar 2025 11:36

Tgt Ion: 43 Resp: 446949
 Ion Ratio Lower Upper
 43 100
 57 49.9 39.4 59.2

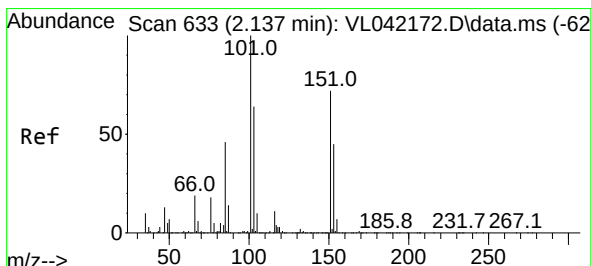
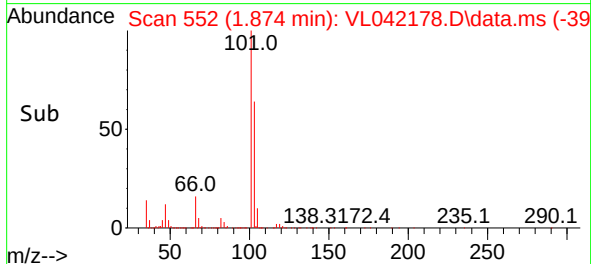
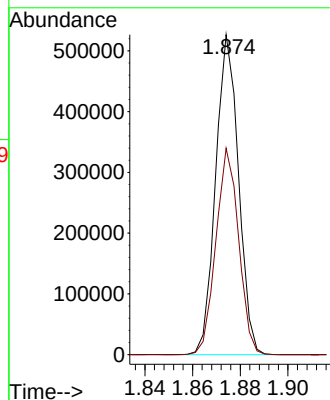
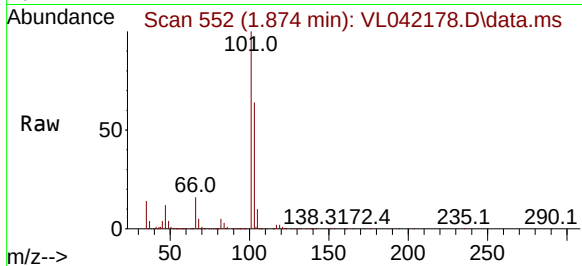




#11
Trichlorofluoromethane
Concen: 14.050 ppbv
RT: 1.874 min Scan# 511
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

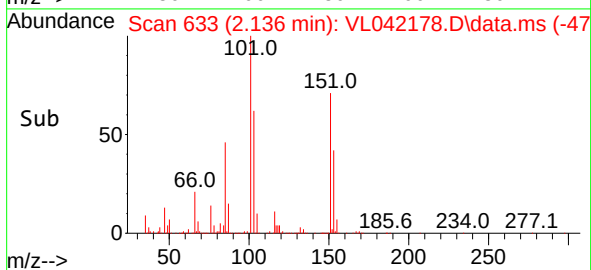
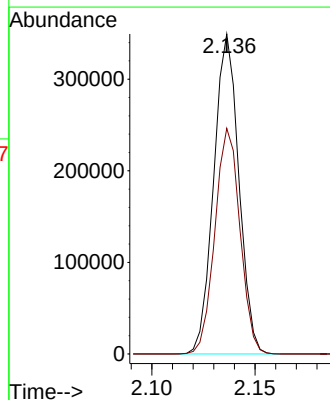
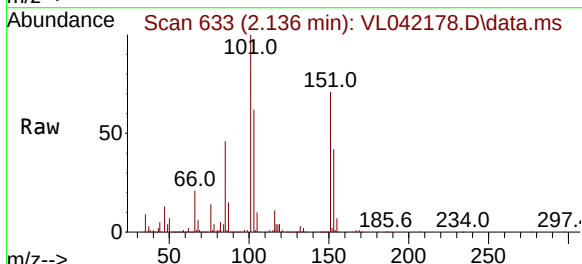
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

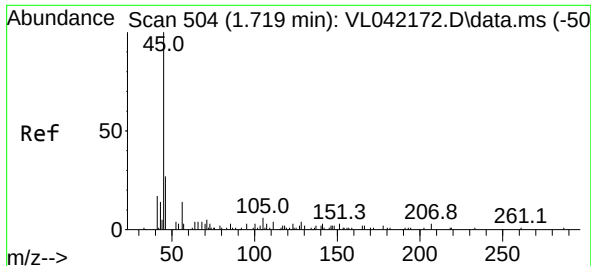
Tgt Ion:101 Resp: 349967
Ion Ratio Lower Upper
101 100
103 64.5 50.2 75.2



#12
1,1,2-Trichlorotrifluoroethane
Concen: 14.419 ppbv
RT: 2.136 min Scan# 633
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

Tgt Ion:101 Resp: 295217
Ion Ratio Lower Upper
101 100
151 70.4 57.1 85.7

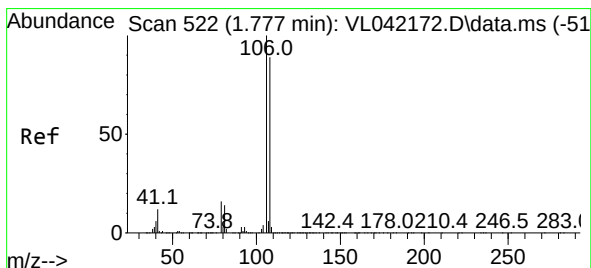
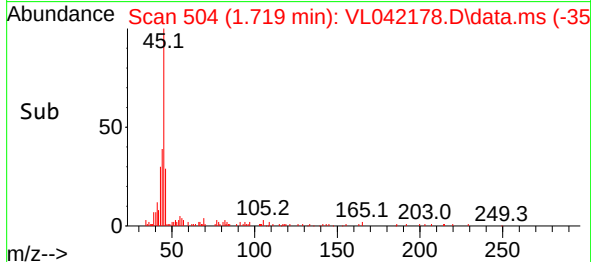
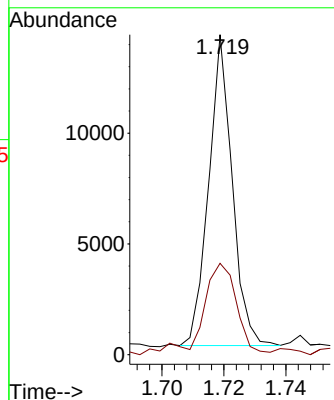
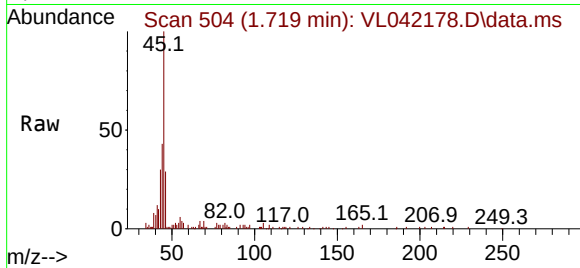




#13
Ethanol
Concen: 8.001 ppbv
RT: 1.719 min Scan# 504
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

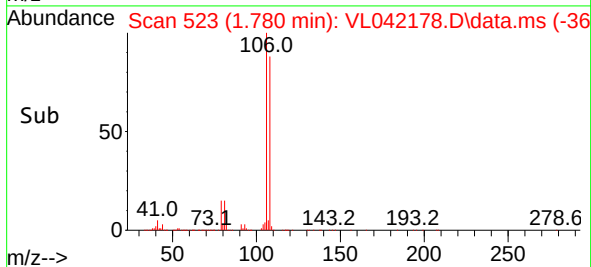
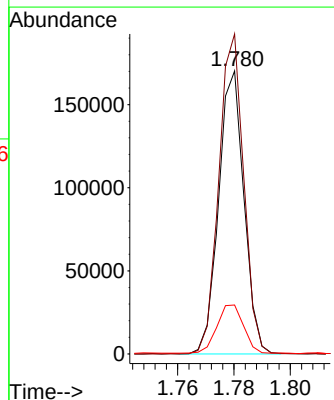
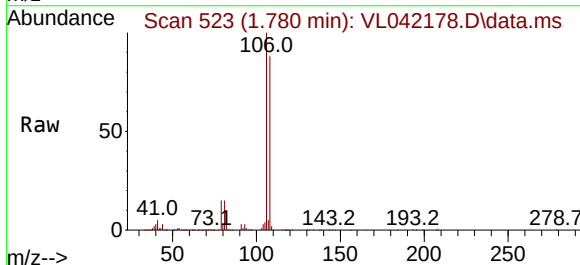
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

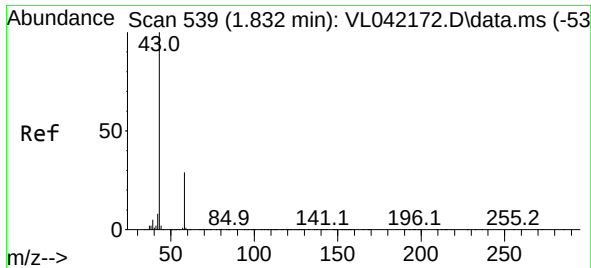
Tgt Ion: 45 Resp: 7382
Ion Ratio Lower Upper
45 100
46 44.6 20.2 80.8



#14
Bromoethene
Concen: 13.571 ppbv
RT: 1.780 min Scan# 523
Delta R.T. 0.003 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

Tgt Ion: 108 Resp: 106436
Ion Ratio Lower Upper
108 100
106 110.9 86.8 130.2
79 18.8 15.0 22.6

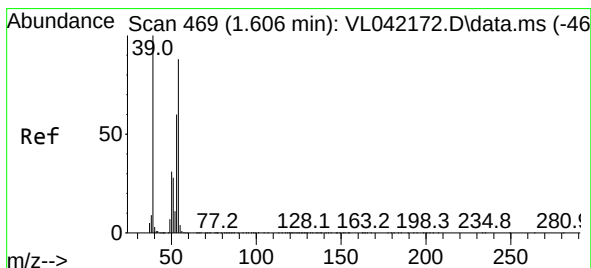
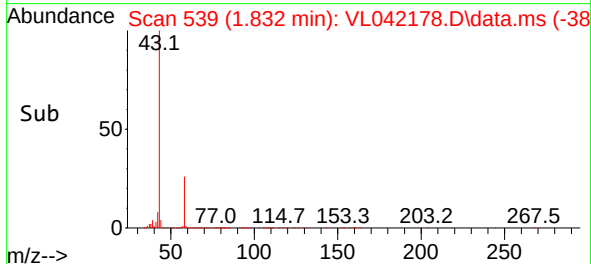
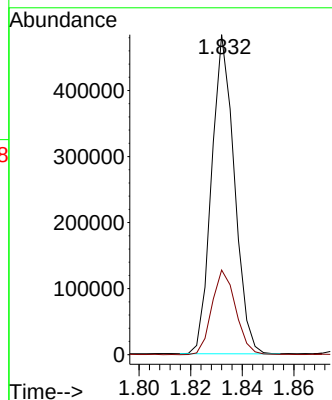
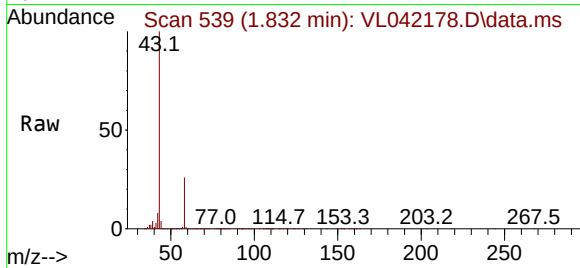




#15
Acetone
Concen: 12.218 ppbv
RT: 1.832 min Scan# 51
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

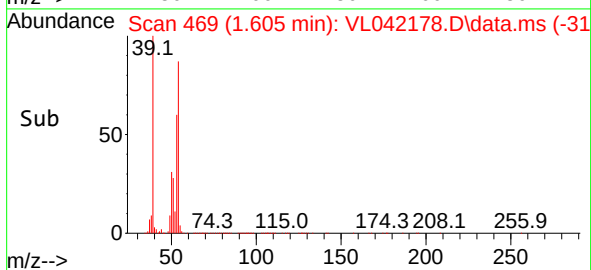
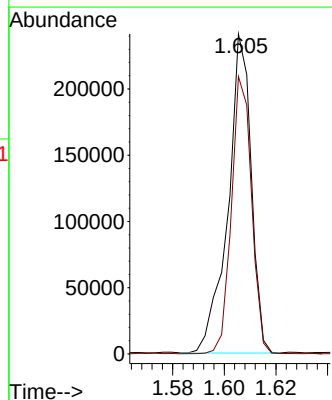
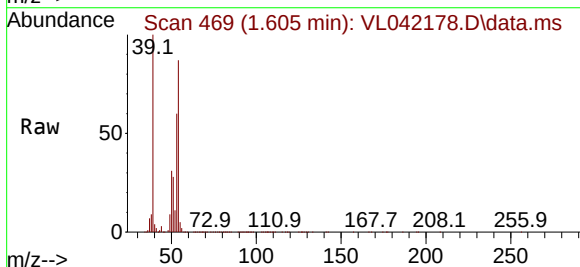
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

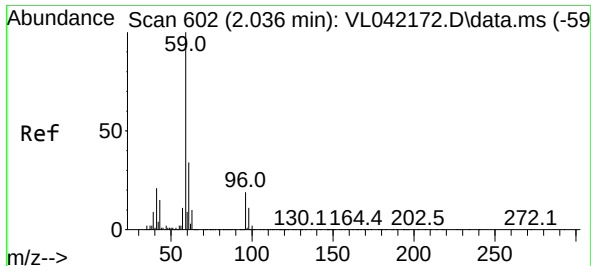
Tgt Ion: 43 Resp: 296254
Ion Ratio Lower Upper
43 100
58 27.7 23.2 34.8



#16
1,3-Butadiene
Concen: 13.766 ppbv
RT: 1.605 min Scan# 469
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

Tgt Ion: 39 Resp: 150122
Ion Ratio Lower Upper
39 100
54 76.3 60.7 91.1





#17

tert-Butyl alcohol

Concen: 13.787 ppbv

RT: 2.039 min Scan# 602

Delta R.T. 0.003 min

Lab File: VL042178.D

Acq: 27 Mar 2025 11:36

Instrument :

MSVOA_1

ClientSampleId :

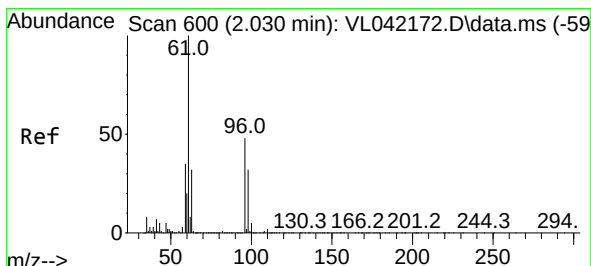
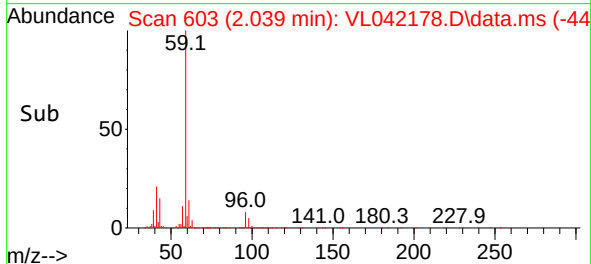
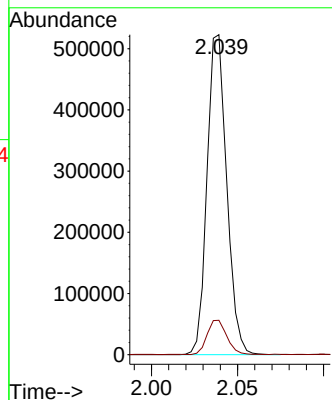
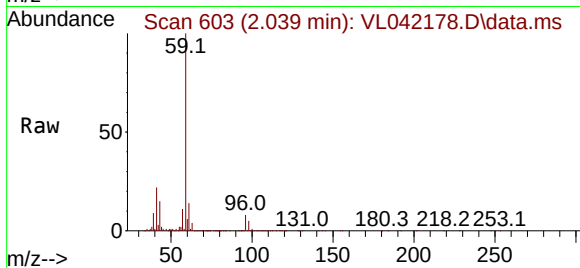
VSTDIC015

Tgt Ion: 59 Resp: 416362

Ion Ratio Lower Upper

59 100

57 10.8 8.9 13.3



#18

1,1-Dichloroethene

Concen: 13.762 ppbv

RT: 2.029 min Scan# 600

Delta R.T. -0.000 min

Lab File: VL042178.D

Acq: 27 Mar 2025 11:36

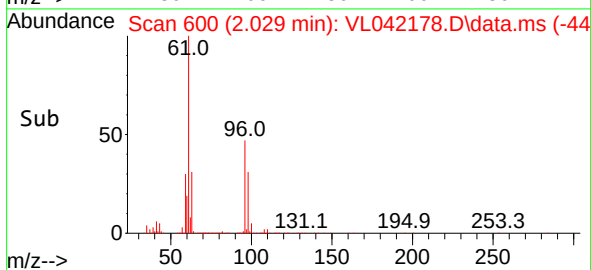
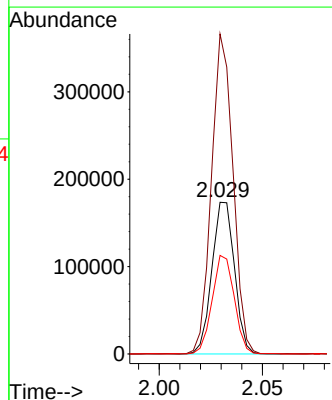
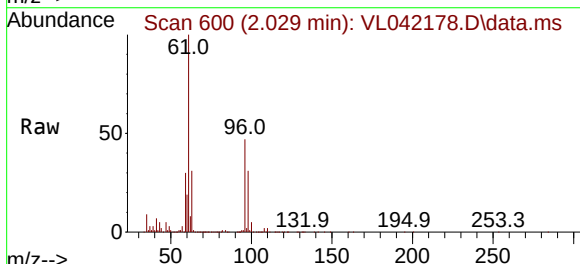
Tgt Ion: 96 Resp: 131720

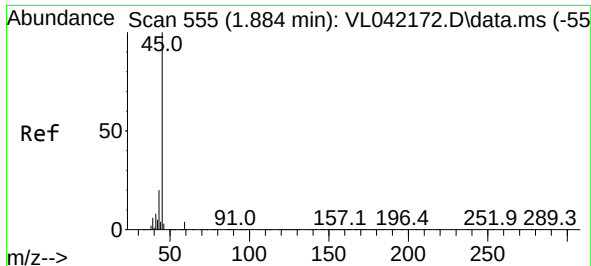
Ion Ratio Lower Upper

96 100

61 211.1 167.6 251.4

98 64.9 53.5 80.3

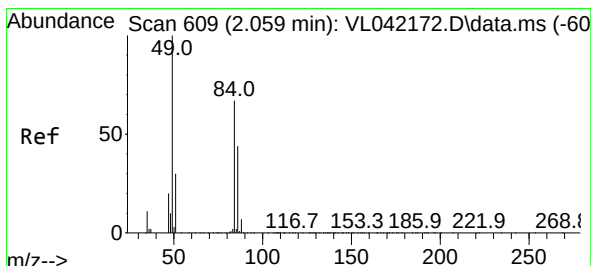
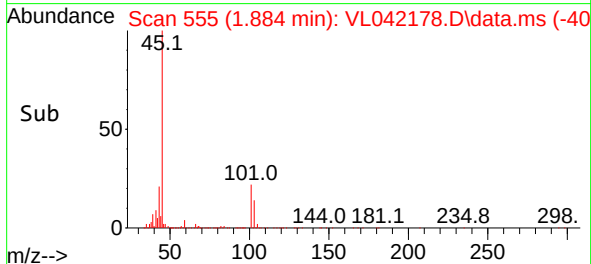
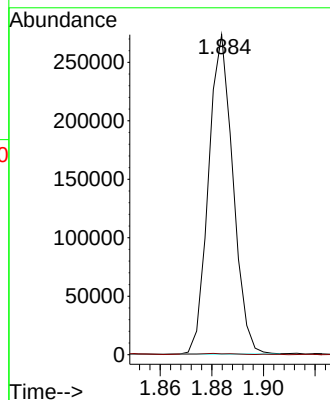
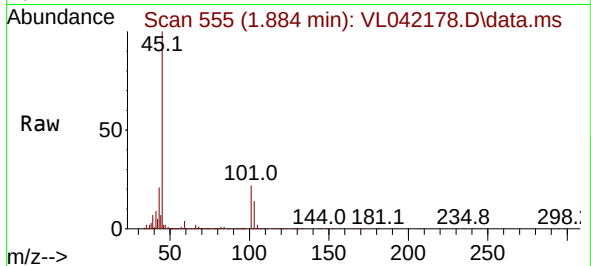




#19
Isopropyl Alcohol
Concen: 13.093 ppbv
RT: 1.884 min Scan# 511
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

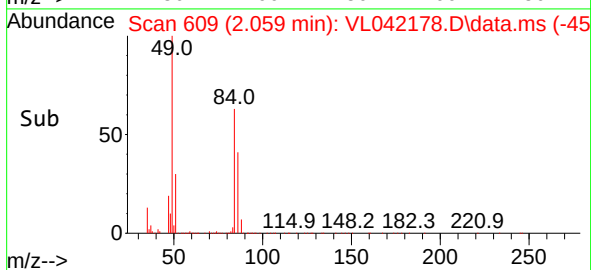
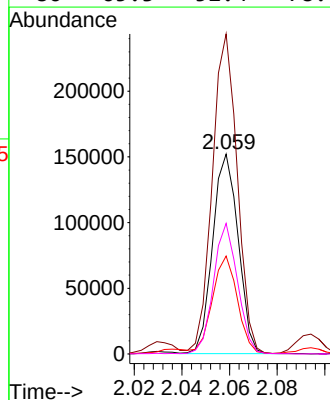
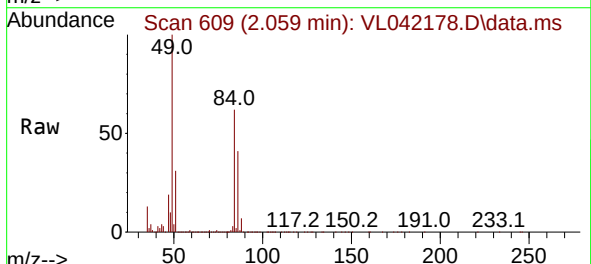
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

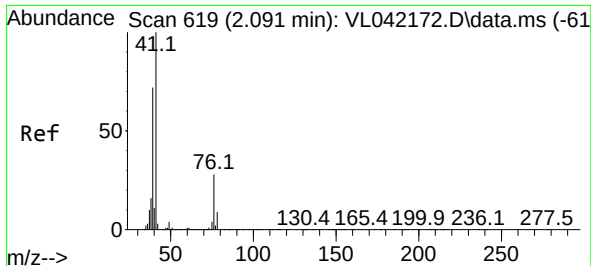
Tgt Ion: 45 Resp: 179117
Ion Ratio Lower Upper
45 100
58 46.4 36.9 55.3



#20
Methylene Chloride
Concen: 12.533 ppbv
RT: 2.059 min Scan# 609
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

Tgt Ion: 84 Resp: 113183
Ion Ratio Lower Upper
84 100
49 159.7 120.2 180.4
51 48.7 37.4 56.0
86 65.3 52.4 78.6

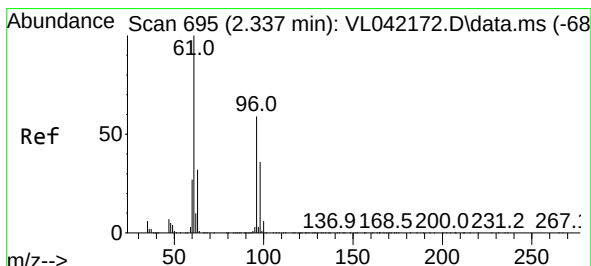
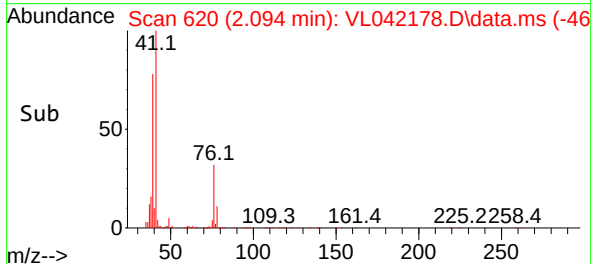
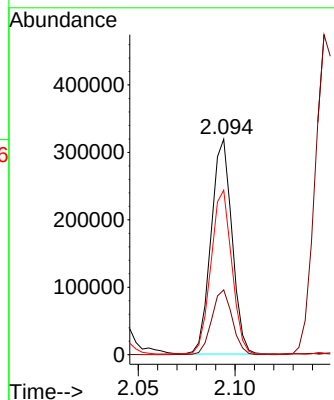
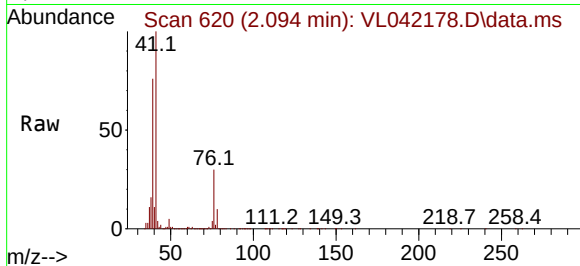




#21
 Allyl Chloride
 Concen: 14.002 ppbv
 RT: 2.094 min Scan# 619
 Delta R.T. 0.003 min
 Lab File: VL042178.D
 Acq: 27 Mar 2025 11:36

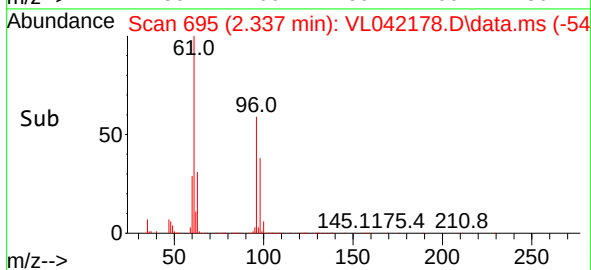
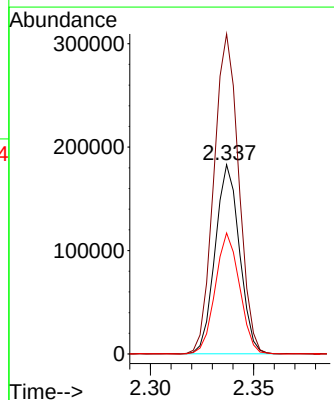
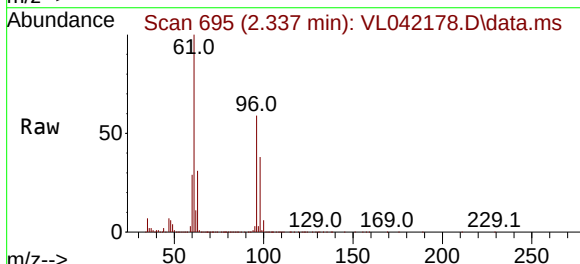
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

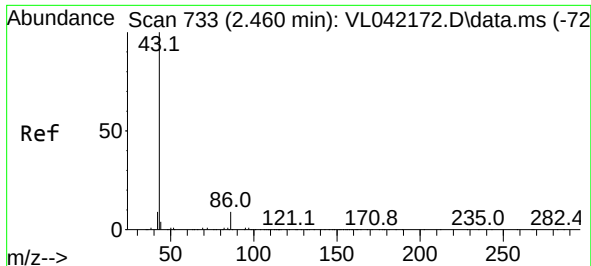
Tgt Ion: 41 Resp: 239440
 Ion Ratio Lower Upper
 41 100
 76 29.5 24.1 36.1
 39 76.1 61.1 91.7



#22
 trans-1,2-Dichloroethene
 Concen: 13.362 ppbv
 RT: 2.337 min Scan# 695
 Delta R.T. -0.000 min
 Lab File: VL042178.D
 Acq: 27 Mar 2025 11:36

Tgt Ion: 96 Resp: 149455
 Ion Ratio Lower Upper
 96 100
 61 169.2 136.6 204.8
 98 63.9 49.4 74.2



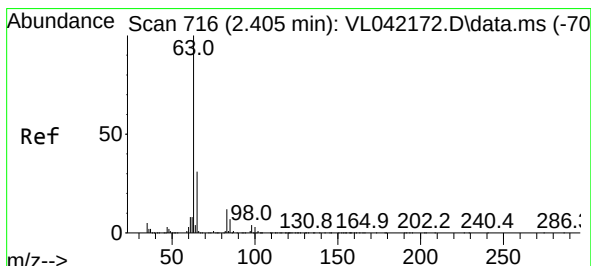
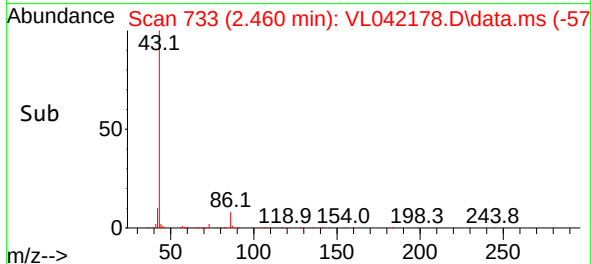
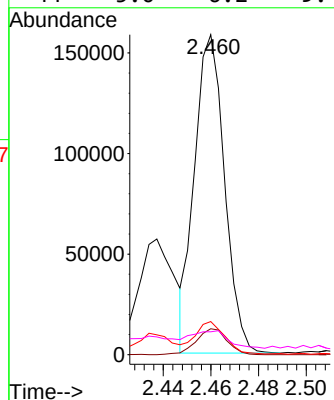
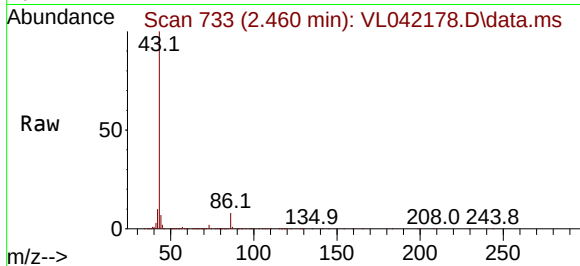


#23
 Vinyl Acetate
 Concen: 13.736 ppbv
 RT: 2.460 min Scan# 716
 Delta R.T. -0.000 min
 Lab File: VL042178.D
 Acq: 27 Mar 2025 11:36

Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC015

Tgt Ion: 43 Resp: 138419

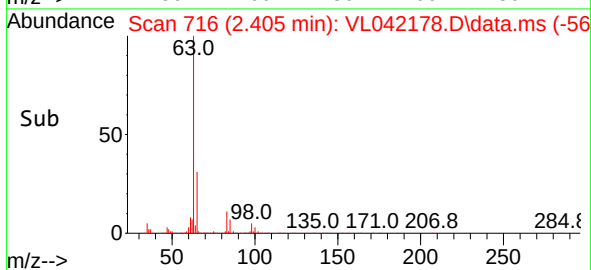
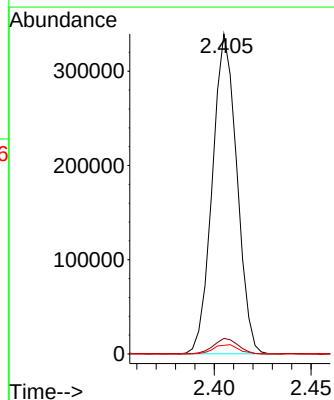
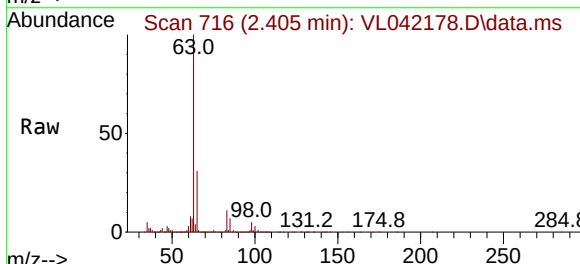
Ion	Ratio	Lower	Upper
43	100		
86	8.1	5.5	8.3
42	10.1	8.6	13.0
44	5.0	6.2	9.4

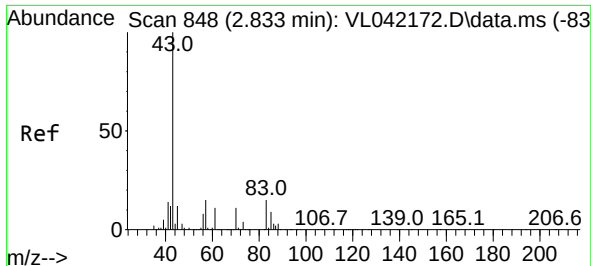


#24
 1,1-Dichloroethane
 Concen: 14.570 ppbv
 RT: 2.405 min Scan# 716
 Delta R.T. -0.000 min
 Lab File: VL042178.D
 Acq: 27 Mar 2025 11:36

Tgt Ion: 63 Resp: 298760

Ion	Ratio	Lower	Upper
63	100		
98	4.9	2.3	6.8
100	2.7	1.6	4.7



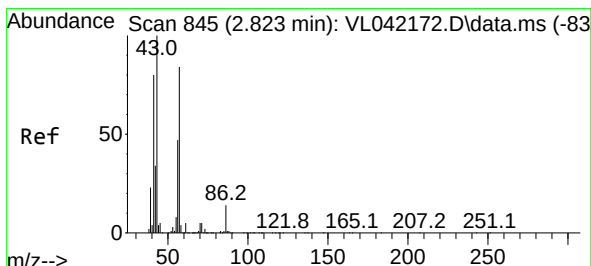
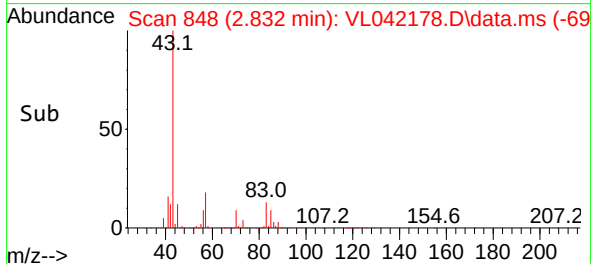
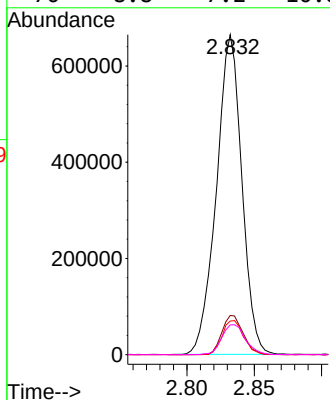
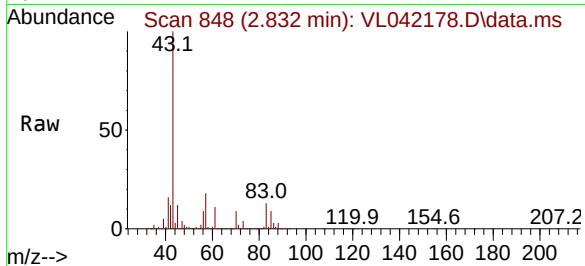


#25
Ethyl Acetate
Concen: 13.855 ppbv
RT: 2.832 min Scan# 848
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

Instrument :
MSVOA_1
ClientSampleId :
VSTDIC015

Tgt Ion: 43 Resp: 871882

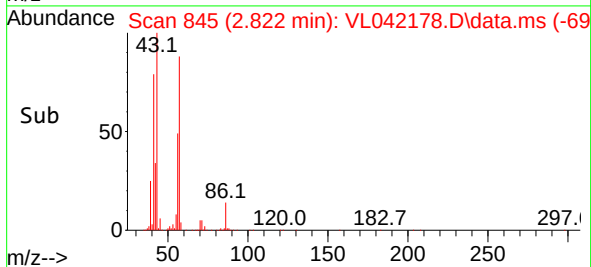
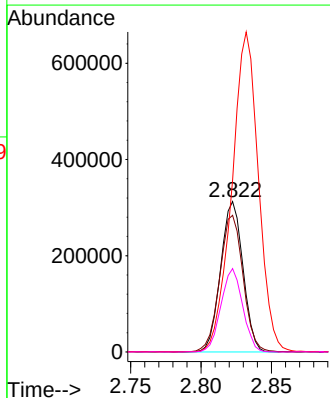
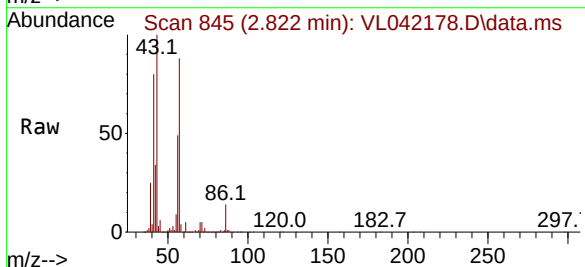
Ion	Ratio	Lower	Upper
43	100		
45	10.3	8.2	12.2
61	9.0	7.3	10.9
70	8.8	7.2	10.8

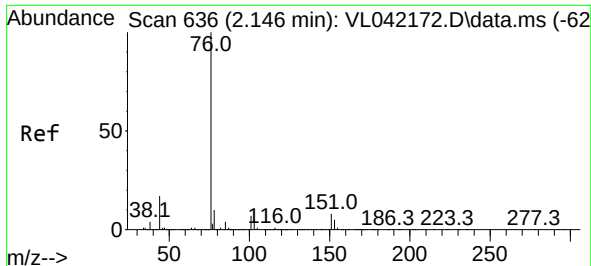


#26
Hexane
Concen: 14.178 ppbv
RT: 2.822 min Scan# 845
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

Tgt Ion: 57 Resp: 344636

Ion	Ratio	Lower	Upper
57	100		
41	96.1	76.6	114.8
43	254.0	207.8	311.8
56	53.9	43.6	65.4

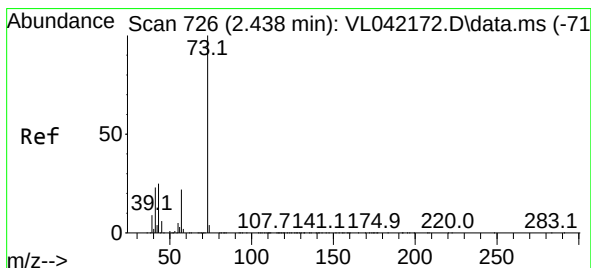
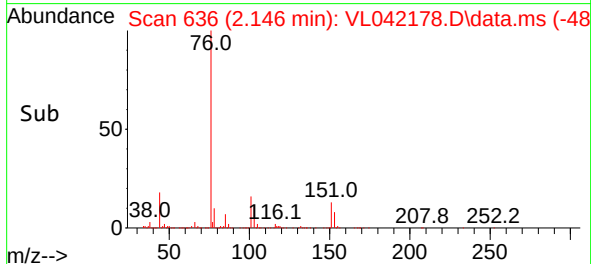
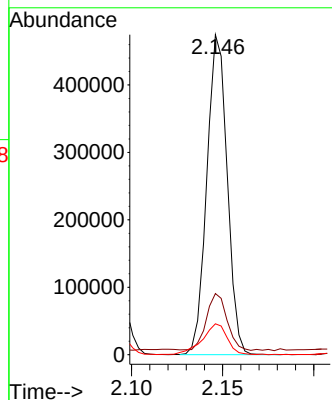
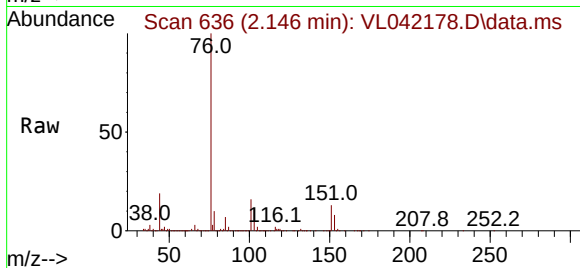




#27
Carbon Disulfide
Concen: 14.196 ppbv
RT: 2.146 min Scan# 61
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

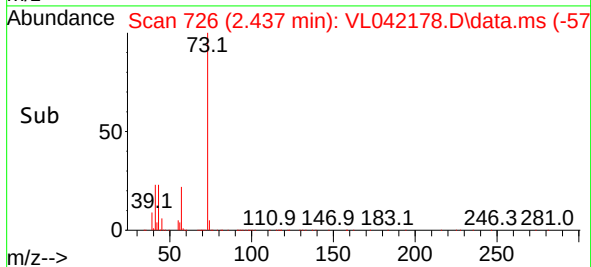
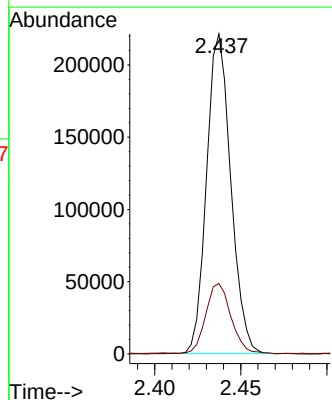
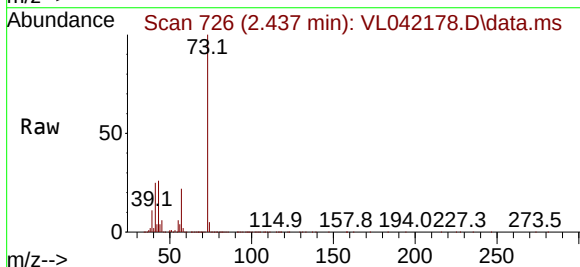
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC015

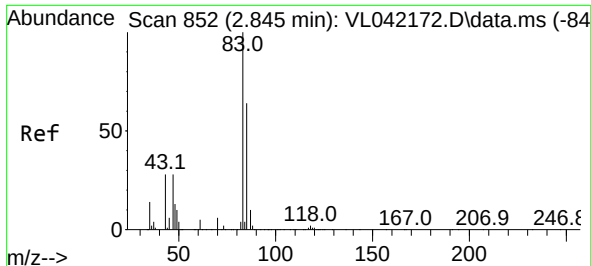
Tgt Ion: 76 Resp: 370022
Ion Ratio Lower Upper
76 100
44 20.3 14.7 22.1
78 11.7 9.3 13.9



#28
Methyl tert-Butyl Ether
Concen: 14.303 ppbv
RT: 2.437 min Scan# 726
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

Tgt Ion: 73 Resp: 216463
Ion Ratio Lower Upper
73 100
57 23.2 20.5 30.7





#29

Chloroform

Concen: 14.297 ppbv

RT: 2.845 min Scan# 852

Delta R.T. -0.000 min

Lab File: VL042178.D

Acq: 27 Mar 2025 11:36

Instrument :

MSVOA_L

ClientSampleId :

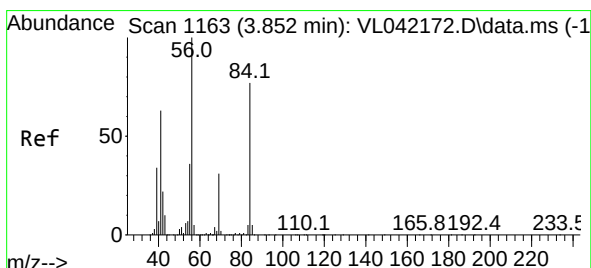
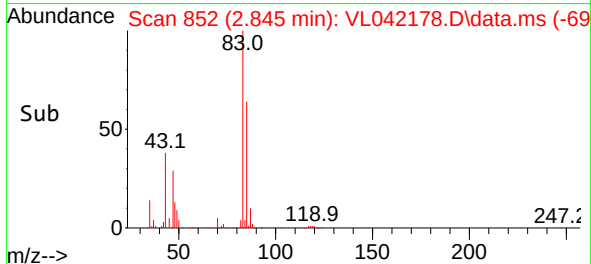
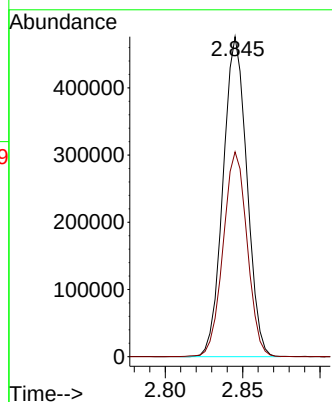
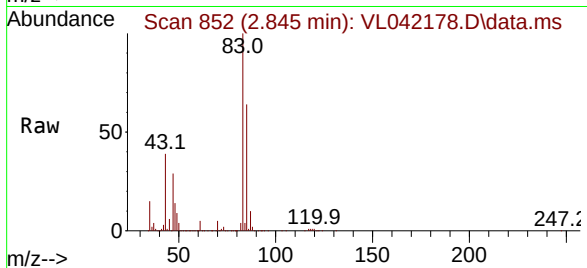
VSTDIC015

Tgt Ion: 83 Resp: 508614

Ion Ratio Lower Upper

83 100

85 64.0 51.4 77.2



#30

Cyclohexane

Concen: 14.040 ppbv

RT: 3.852 min Scan# 1163

Delta R.T. -0.000 min

Lab File: VL042178.D

Acq: 27 Mar 2025 11:36

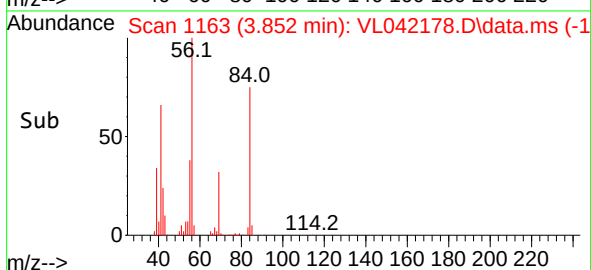
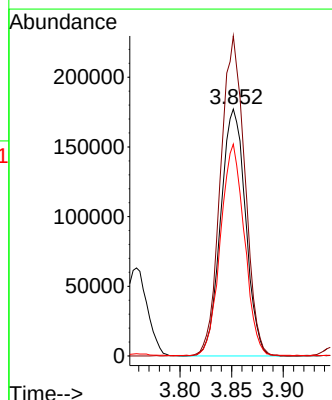
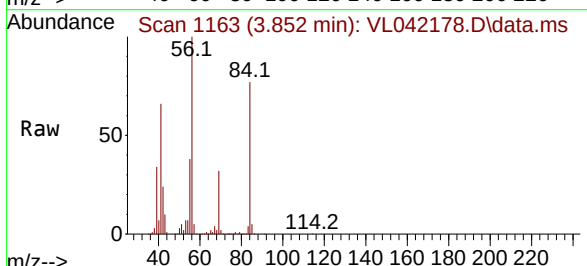
Tgt Ion: 84 Resp: 296458

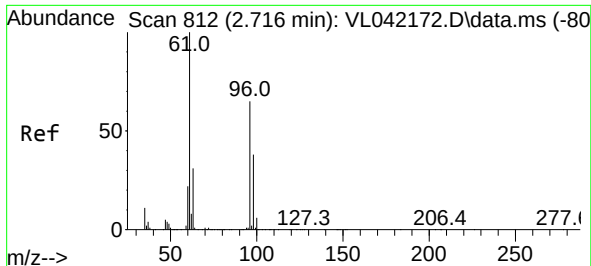
Ion Ratio Lower Upper

84 100

56 126.7 102.8 154.2

41 82.6 66.5 99.7

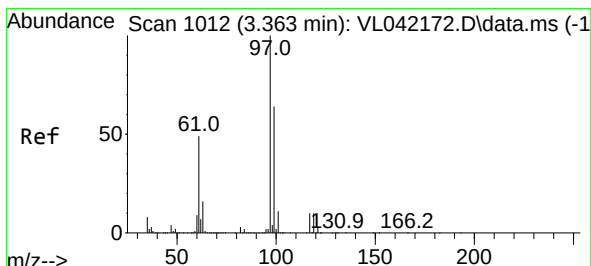
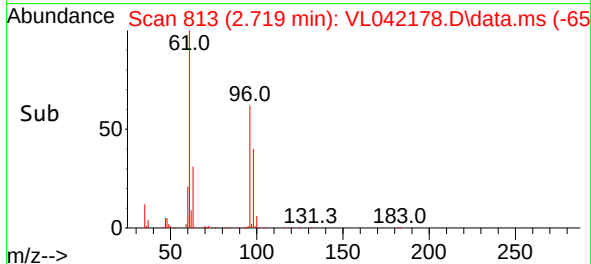
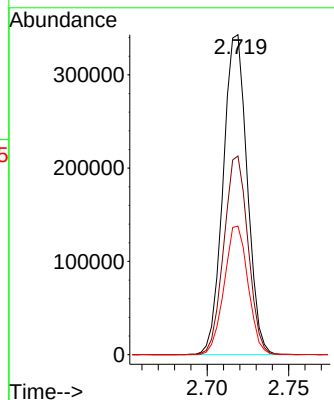
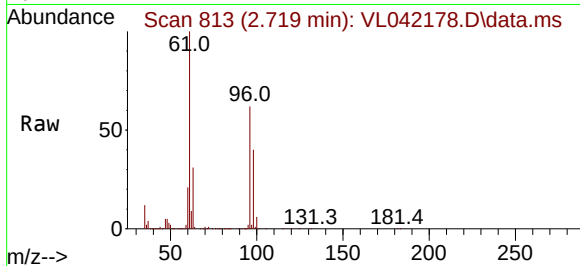




#31
 cis-1,2-Dichloroethene
 Concen: 14.262 ppbv
 RT: 2.719 min Scan# 812
 Delta R.T. 0.003 min
 Lab File: VL042178.D
 Acq: 27 Mar 2025 11:36

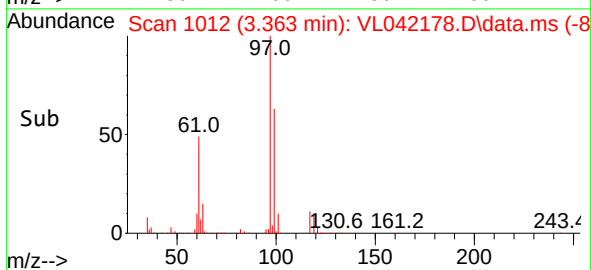
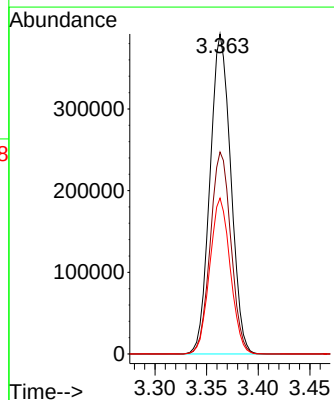
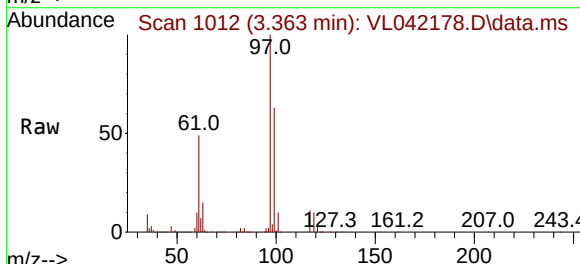
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC015

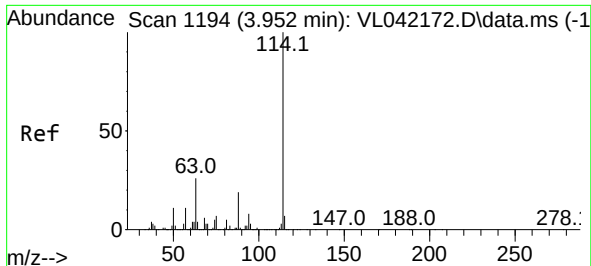
Tgt Ion: 61 Resp: 351945
 Ion Ratio Lower Upper
 61 100
 96 62.1 51.8 77.8
 98 40.2 30.6 46.0



#32
 1,1,1-Trichloroethane
 Concen: 13.448 ppbv
 RT: 3.363 min Scan# 1012
 Delta R.T. -0.000 min
 Lab File: VL042178.D
 Acq: 27 Mar 2025 11:36

Tgt Ion: 97 Resp: 547329
 Ion Ratio Lower Upper
 97 100
 99 62.8 51.5 77.3
 61 48.4 38.7 58.1





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.952 min Scan# 1194

Delta R.T. -0.000 min

Lab File: VL042178.D

Acq: 27 Mar 2025 11:36

Instrument :

MSVOA_1

ClientSampleId :

VSTDIC015

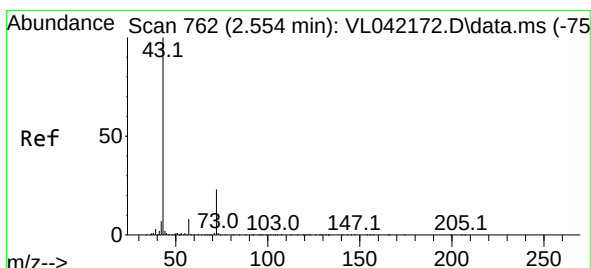
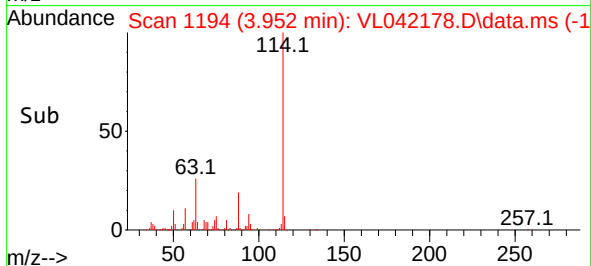
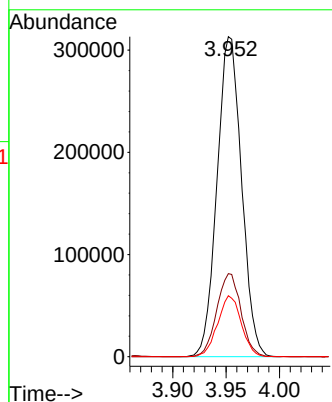
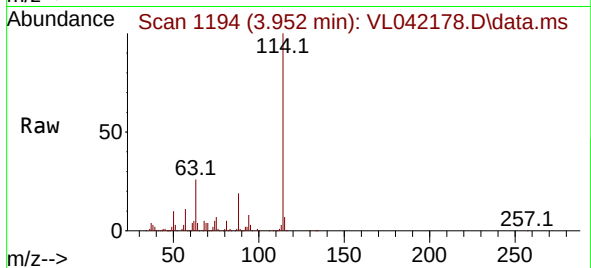
Tgt Ion:114 Resp: 499360

Ion Ratio Lower Upper

114 100

63 25.7 20.7 31.1

88 18.4 15.0 22.4



#34

2-Butanone

Concen: 13.726 ppbv

RT: 2.554 min Scan# 762

Delta R.T. -0.000 min

Lab File: VL042178.D

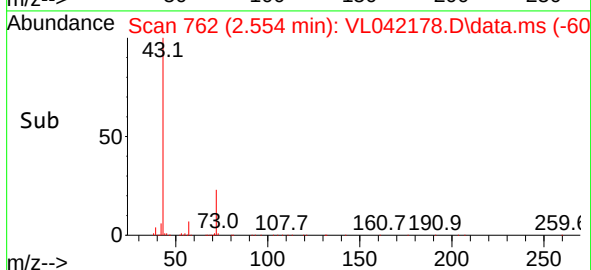
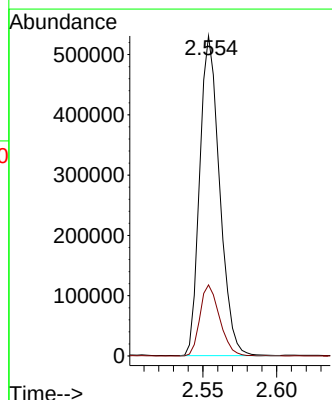
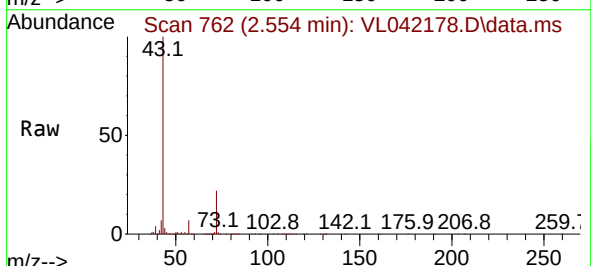
Acq: 27 Mar 2025 11:36

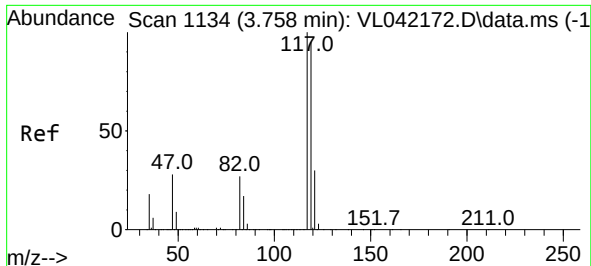
Tgt Ion: 43 Resp: 497020

Ion Ratio Lower Upper

43 100

72 22.0 18.2 27.2

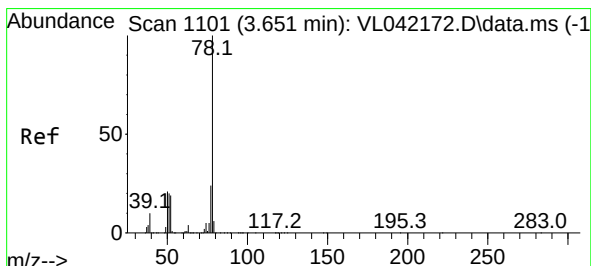
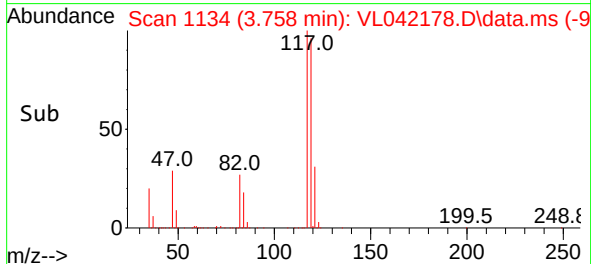
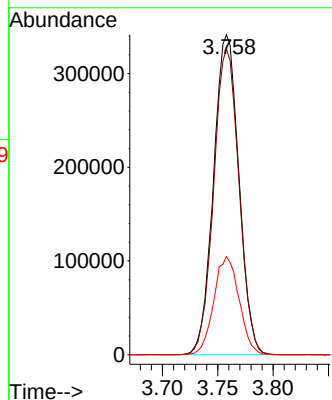
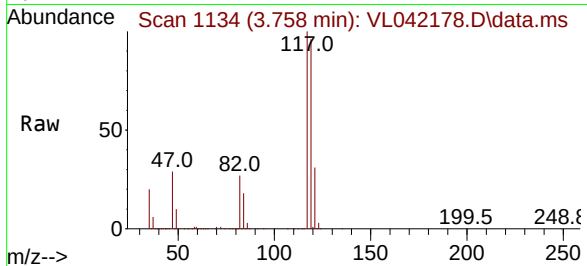




#35
Carbon Tetrachloride
Concen: 14.140 ppbv
RT: 3.758 min Scan# 1134
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

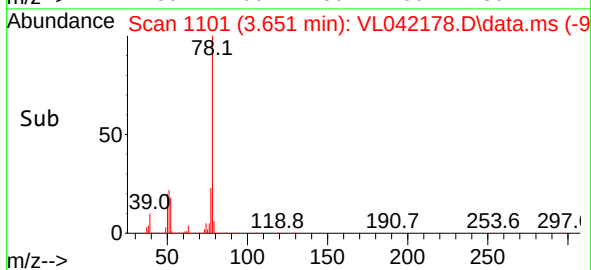
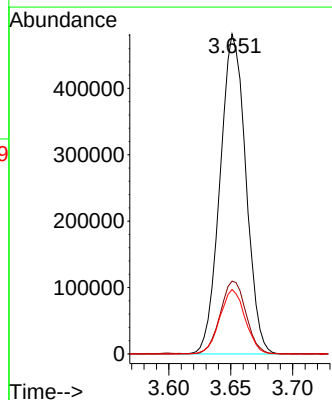
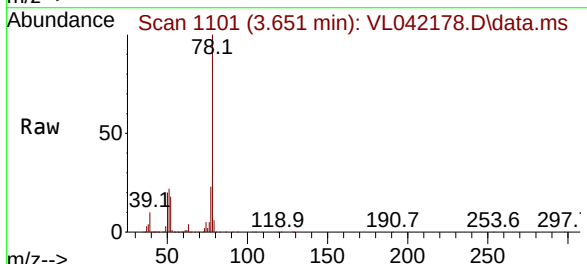
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

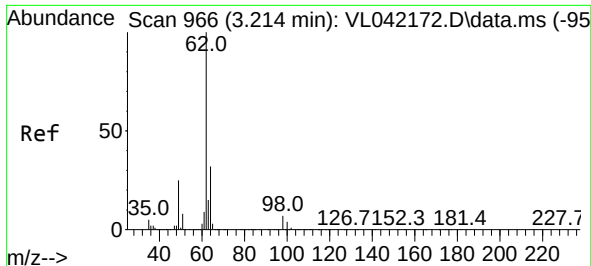
Tgt Ion:117 Resp: 543385
Ion Ratio Lower Upper
117 100
119 95.5 76.2 114.2
121 30.6 24.2 36.4



#36
Benzene
Concen: 14.131 ppbv
RT: 3.651 min Scan# 1101
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

Tgt Ion: 78 Resp: 699549
Ion Ratio Lower Upper
78 100
77 22.7 19.1 28.7
50 20.1 16.6 24.8

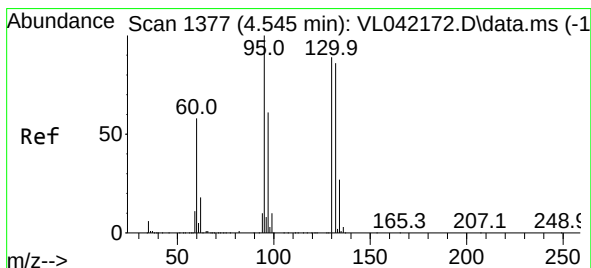
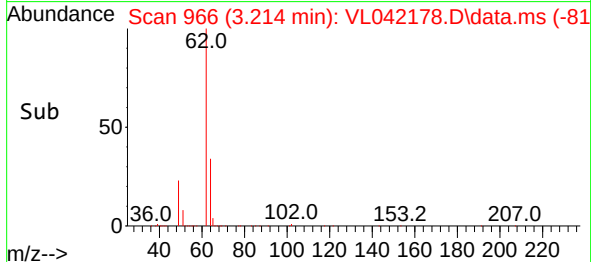
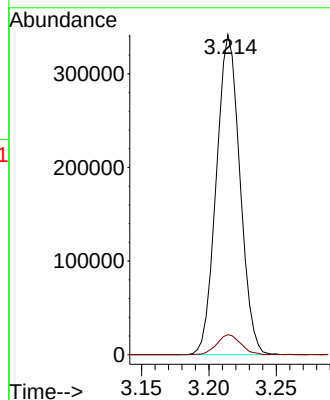
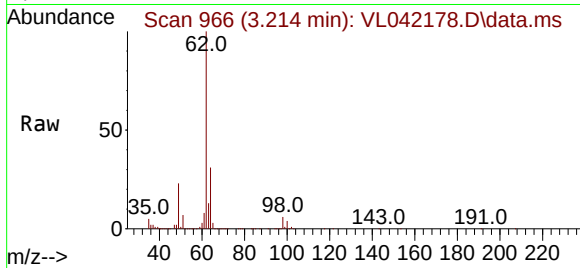




#37
1,2-Dichloroethane
Concen: 14.697 ppbv
RT: 3.214 min Scan# 966
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

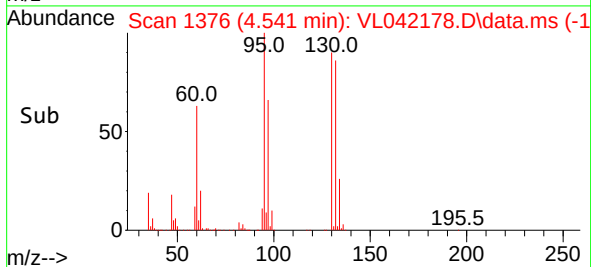
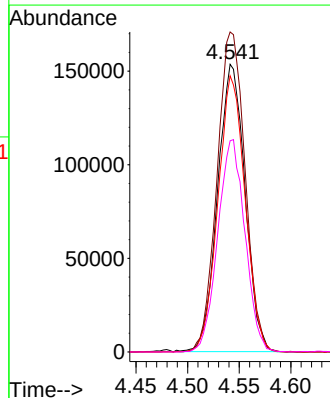
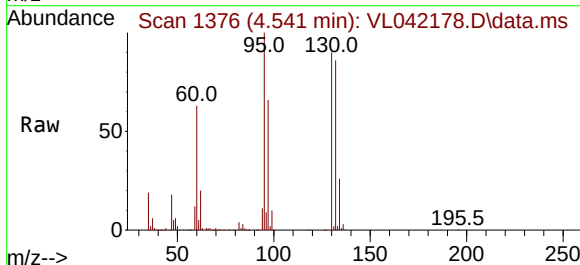
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

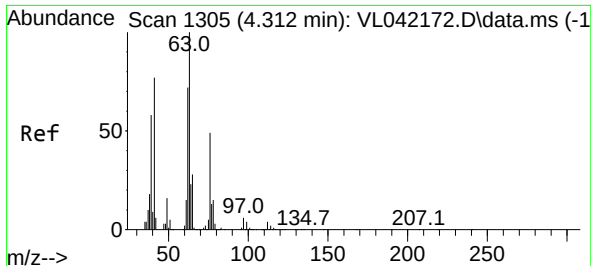
Tgt Ion: 62 Resp: 416544
Ion Ratio Lower Upper
62 100
98 6.4 5.4 8.2



#38
Trichloroethene
Concen: 13.715 ppbv
RT: 4.541 min Scan# 1376
Delta R.T. -0.004 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

Tgt Ion:130 Resp: 283430
Ion Ratio Lower Upper
130 100
95 111.3 89.8 134.8
132 96.0 77.4 116.2
97 73.5 55.1 82.7





#39

1,2-Dichloropropane

Concen: 14.304 ppbv

RT: 4.308 min Scan# 11

Delta R.T. -0.004 min

Lab File: VL042178.D

Acq: 27 Mar 2025 11:36

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

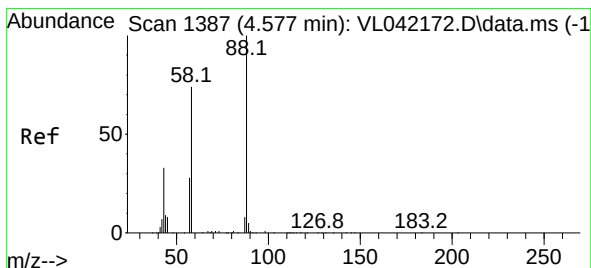
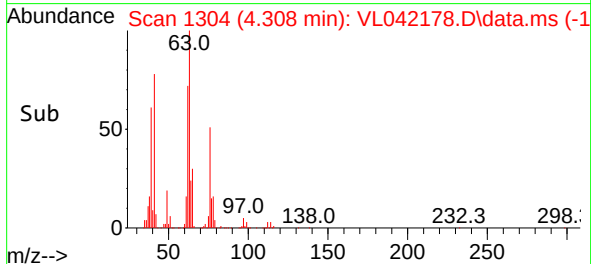
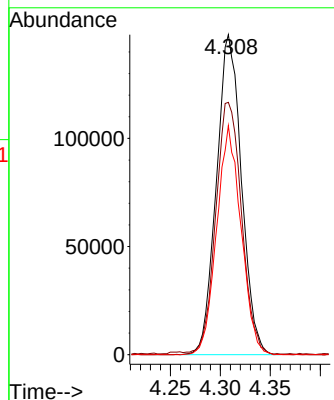
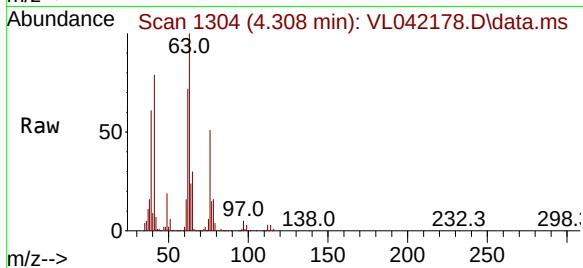
Tgt Ion: 63 Resp: 257891

Ion Ratio Lower Upper

63 100

41 78.7 61.7 92.5

62 71.6 57.6 86.4



#40

1,4-Dioxane

Concen: 13.354 ppbv

RT: 4.577 min Scan# 1387

Delta R.T. -0.000 min

Lab File: VL042178.D

Acq: 27 Mar 2025 11:36

Tgt Ion: 88 Resp: 124925

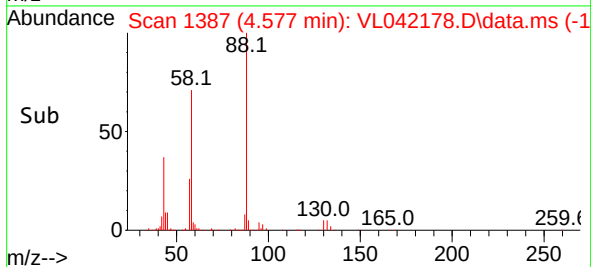
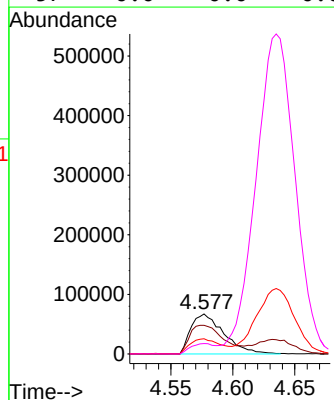
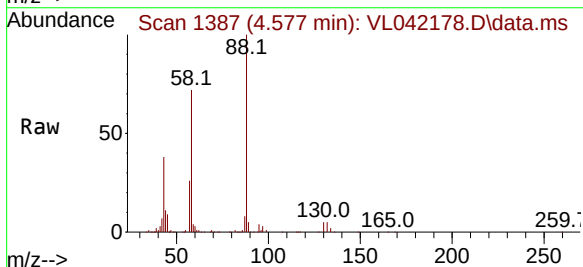
Ion Ratio Lower Upper

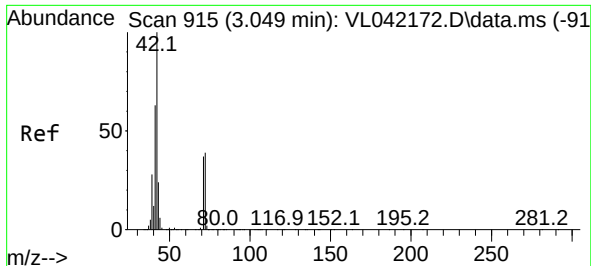
88 100

58 69.6 62.7 94.1

43 31.6 23.0 34.4

57 0.0 0.0 0.0

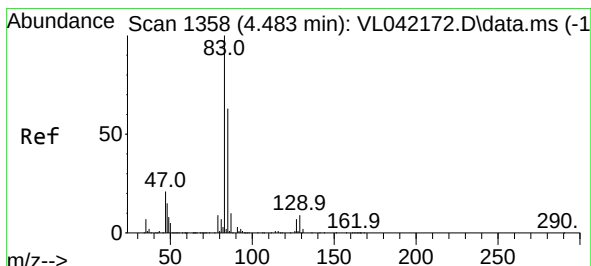
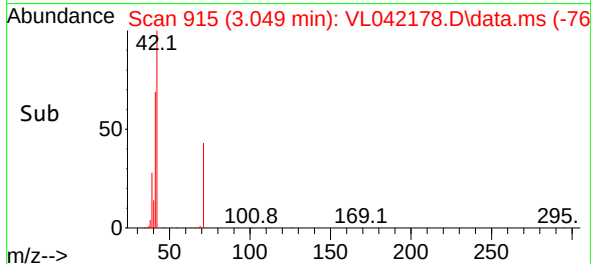
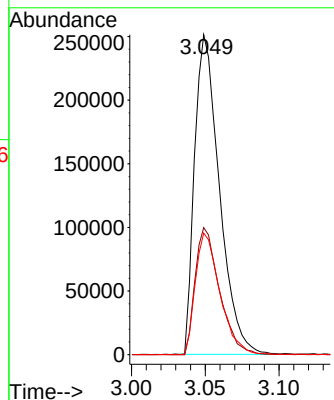
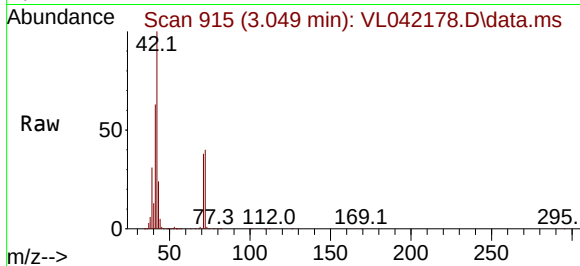




#41
Tetrahydrofuran
Concen: 14.301 ppbv
RT: 3.049 min Scan# 915
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

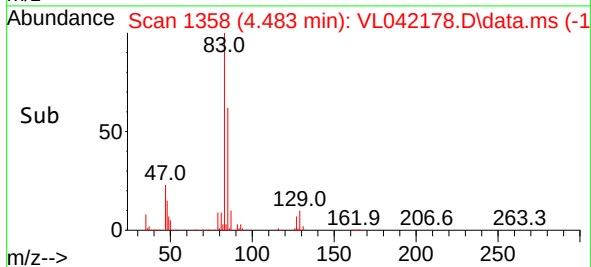
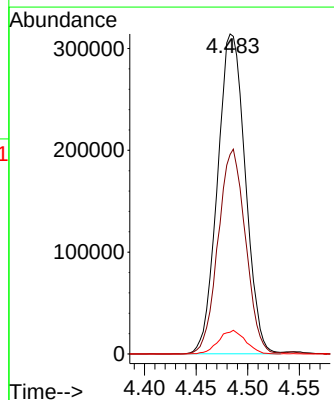
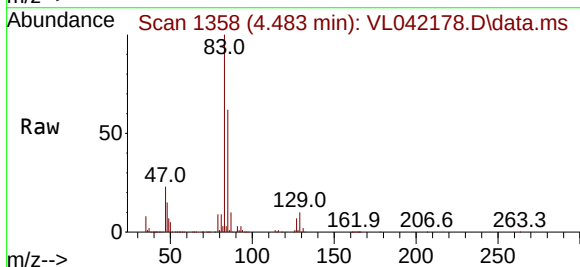
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

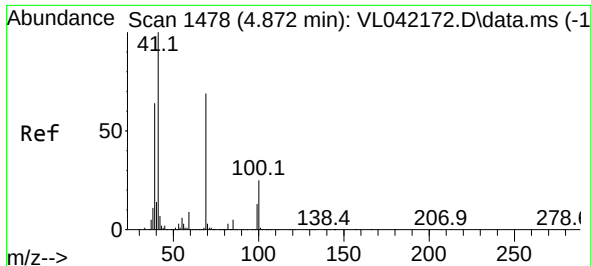
Tgt Ion: 42 Resp: 294634
Ion Ratio Lower Upper
42 100
72 39.0 31.4 47.0
71 37.9 30.2 45.4



#42
Bromodichloromethane
Concen: 15.043 ppbv
RT: 4.483 min Scan# 1358
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

Tgt Ion: 83 Resp: 587772
Ion Ratio Lower Upper
83 100
85 62.4 50.5 75.7
127 6.8 5.9 8.9

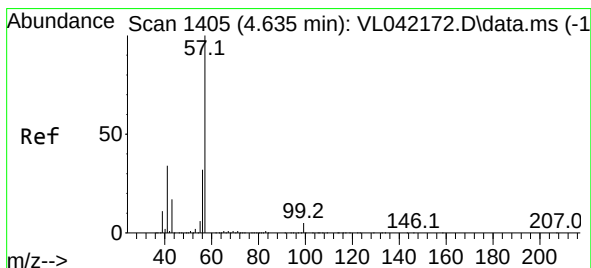
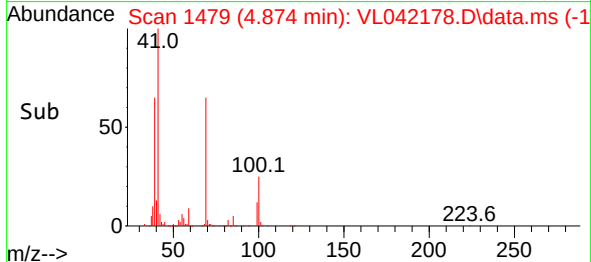
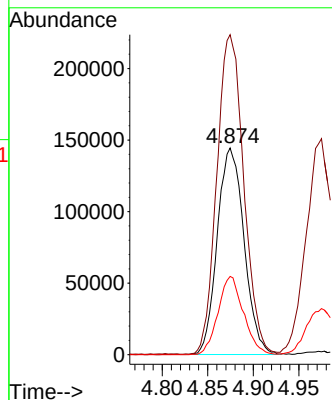
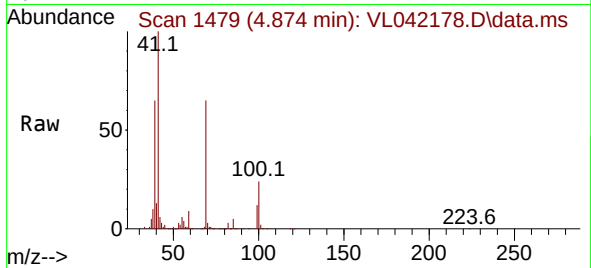




#43
Methyl Methacrylate
Concen: 14.130 ppbv
RT: 4.874 min Scan# 1478
Delta R.T. 0.003 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

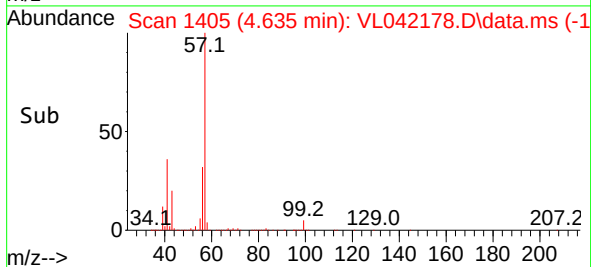
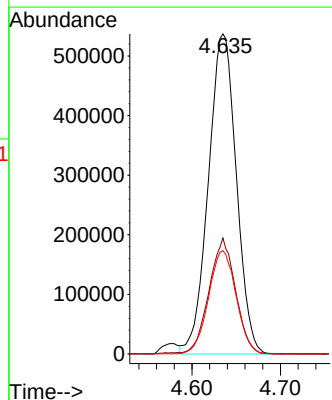
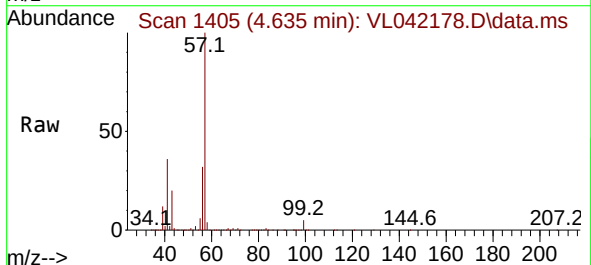
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC015

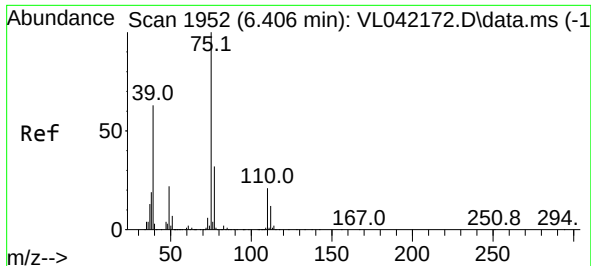
Tgt Ion: 69 Resp: 295300
Ion Ratio Lower Upper
69 100
41 155.4 123.8 185.6
100 36.0 28.4 42.6



#44
2,2,4-Trimethylpentane
Concen: 14.108 ppbv
RT: 4.635 min Scan# 1405
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

Tgt Ion: 57 Resp: 1180275
Ion Ratio Lower Upper
57 100
41 34.2 26.8 40.2
56 31.9 25.6 38.4





#45

t-1,3-Dichloropropene

Concen: 14.649 ppbv

RT: 6.405 min Scan# 1952

Delta R.T. -0.000 min

Lab File: VL042178.D

Acq: 27 Mar 2025 11:36

Instrument :

MSVOA_L

ClientSampleId :

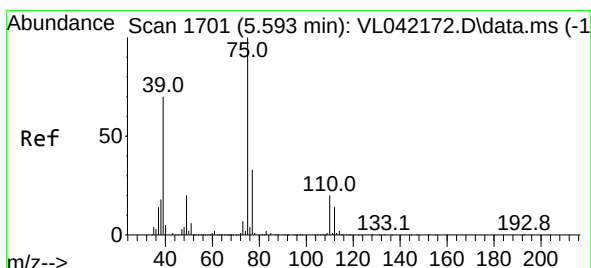
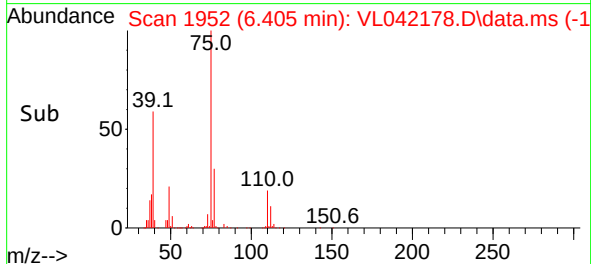
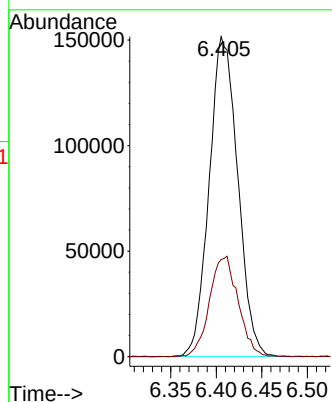
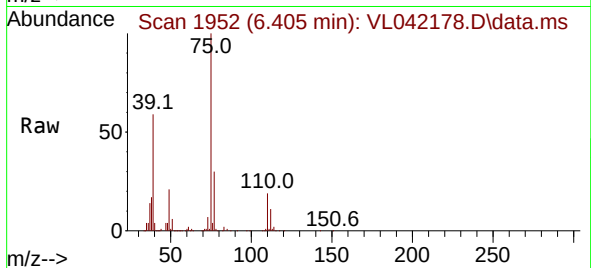
VSTDIC015

Tgt Ion: 75 Resp: 329360

Ion Ratio Lower Upper

75 100

77 30.4 26.0 39.0



#46

cis-1,3-Dichloropropene

Concen: 14.542 ppbv

RT: 5.593 min Scan# 1701

Delta R.T. -0.000 min

Lab File: VL042178.D

Acq: 27 Mar 2025 11:36

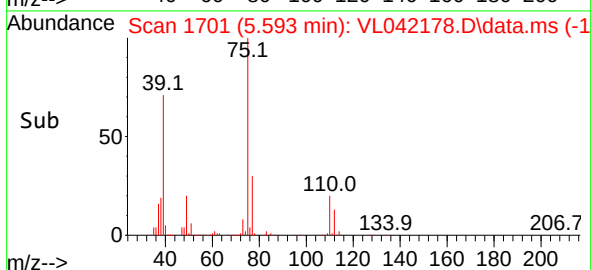
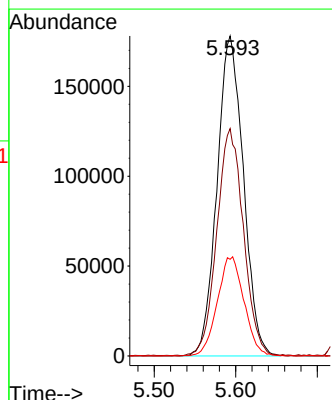
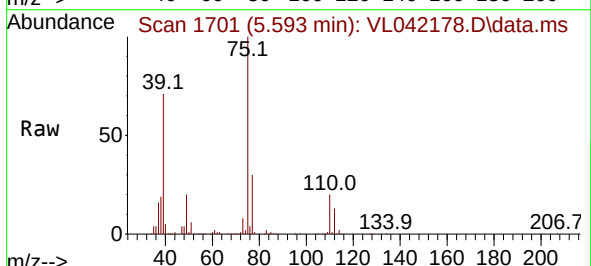
Tgt Ion: 75 Resp: 400813

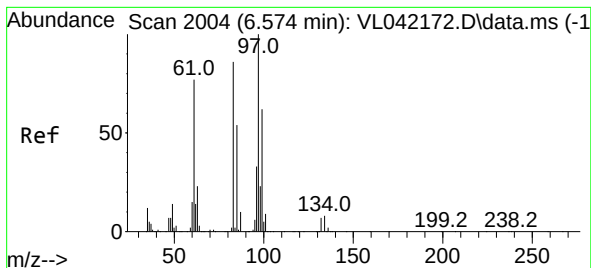
Ion Ratio Lower Upper

75 100

39 70.9 55.8 83.6

77 30.2 26.0 39.0





#47

1,1,2-Trichloroethane

Concen: 14.331 ppbv

RT: 6.577 min Scan# 20

Delta R.T. 0.003 min

Lab File: VL042178.D

Acq: 27 Mar 2025 11:36

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC015

Tgt Ion: 97 Resp: 273137

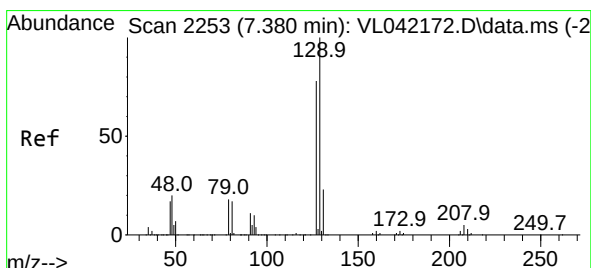
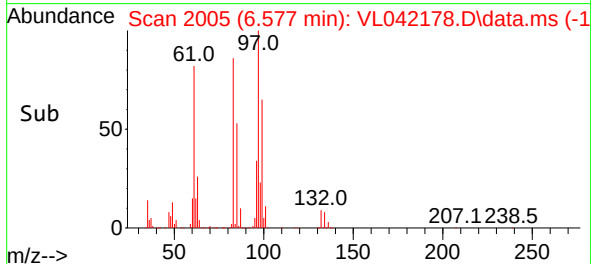
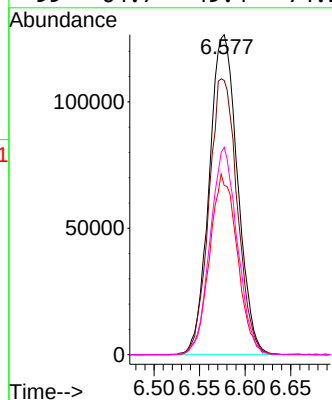
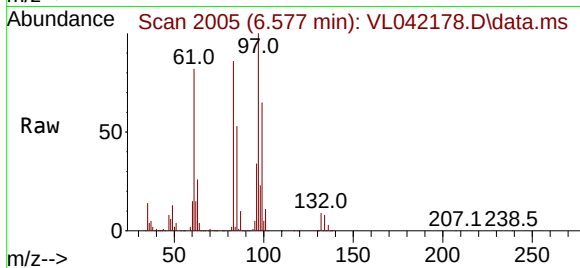
Ion Ratio Lower Upper

97 100

83 85.7 69.2 103.8

85 52.7 43.1 64.7

99 64.7 49.4 74.2



#48

Dibromochloromethane

Concen: 14.936 ppbv

RT: 7.383 min Scan# 2254

Delta R.T. 0.003 min

Lab File: VL042178.D

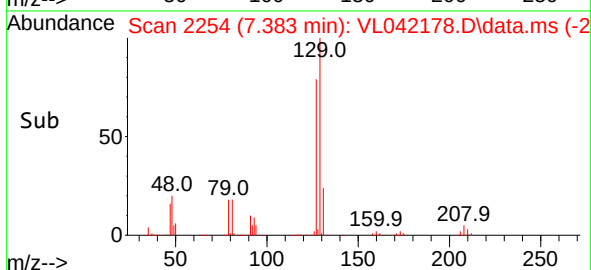
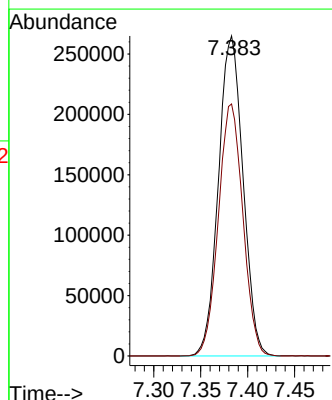
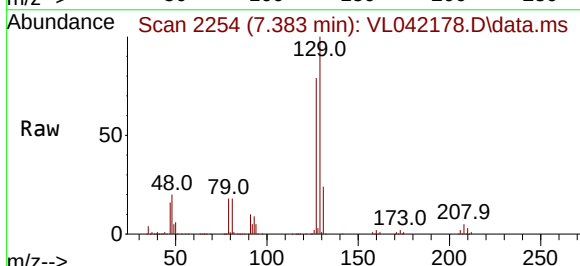
Acq: 27 Mar 2025 11:36

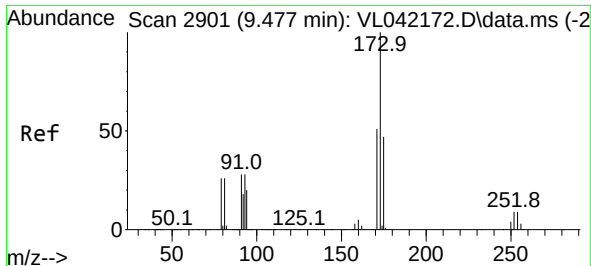
Tgt Ion: 129 Resp: 482431

Ion Ratio Lower Upper

129 100

127 78.4 39.1 117.2





#49

Bromoform

Concen: 14.730 ppbv

RT: 9.480 min Scan# 2901

Delta R.T. 0.003 min

Lab File: VL042178.D

Acq: 27 Mar 2025 11:36

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

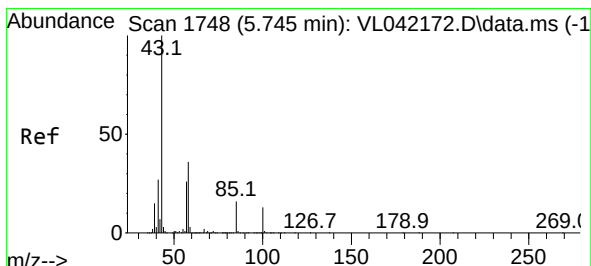
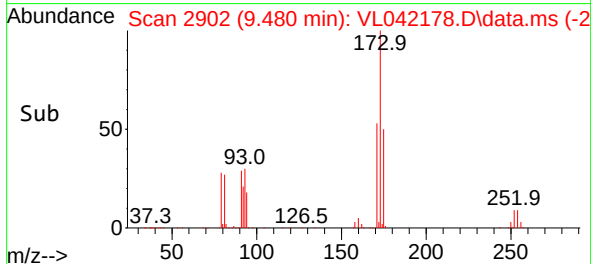
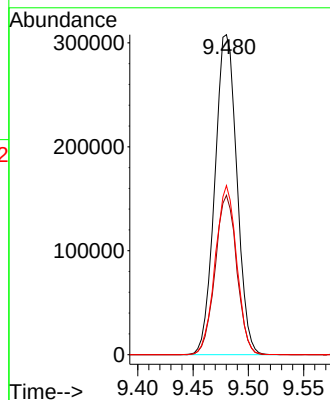
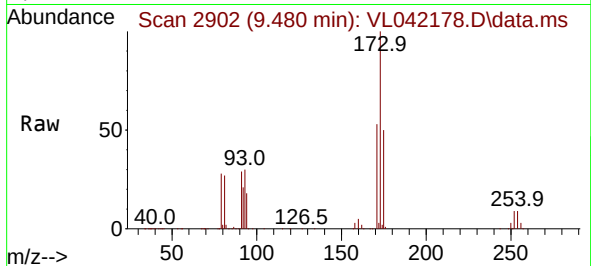
Tgt Ion:173 Resp: 427143

Ion Ratio Lower Upper

173 100

175 48.9 38.6 57.8

171 51.5 41.8 62.6



#50

4-Methyl-2-Pentanone

Concen: 13.155 ppbv

RT: 5.745 min Scan# 1748

Delta R.T. -0.000 min

Lab File: VL042178.D

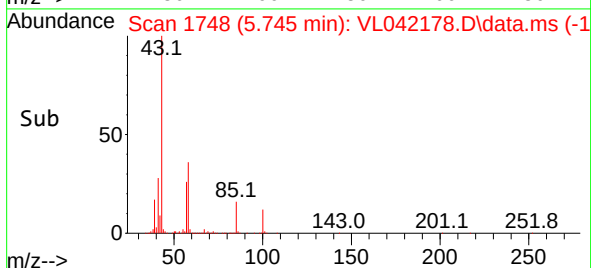
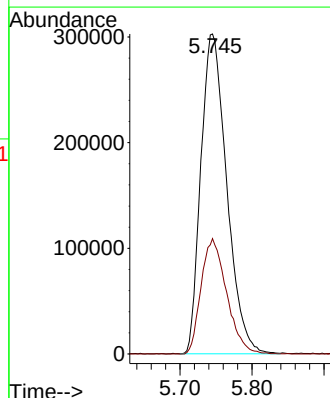
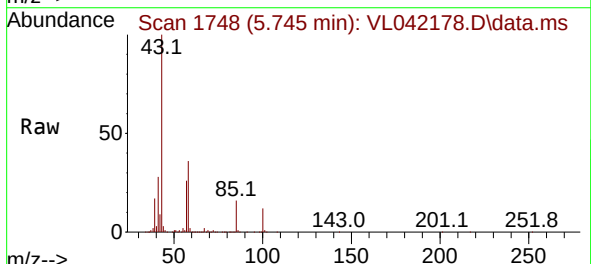
Acq: 27 Mar 2025 11:36

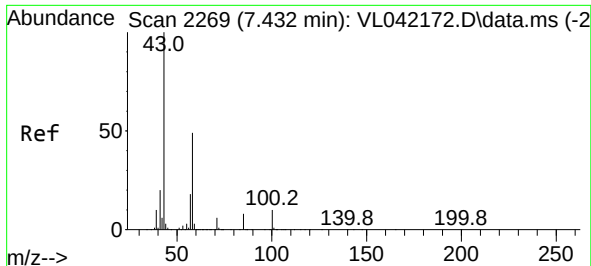
Tgt Ion: 43 Resp: 755146

Ion Ratio Lower Upper

43 100

58 35.5 29.0 43.6

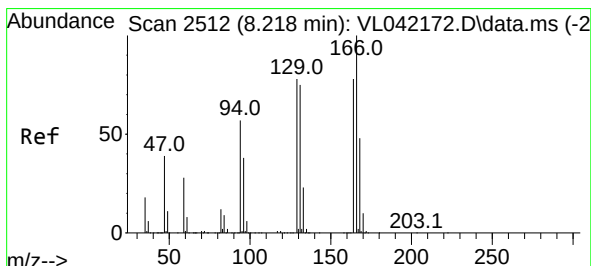
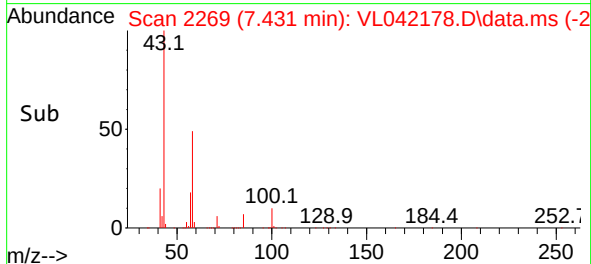
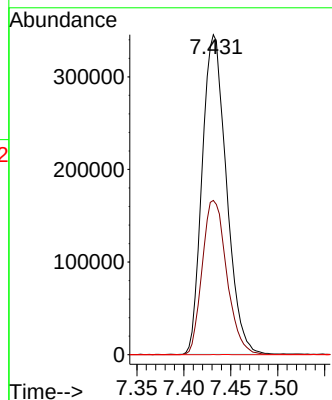
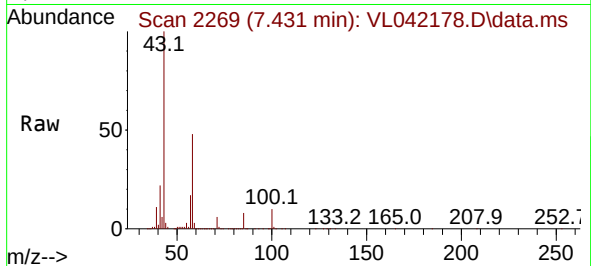




#51
2-Hexanone
Concen: 13.005 ppbv
RT: 7.431 min Scan# 21
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

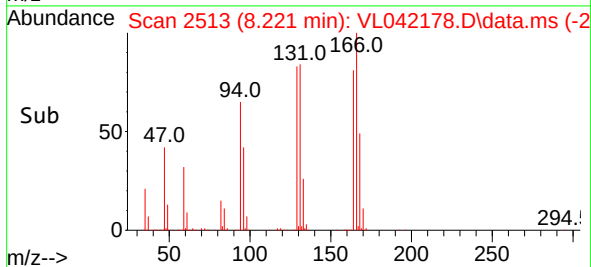
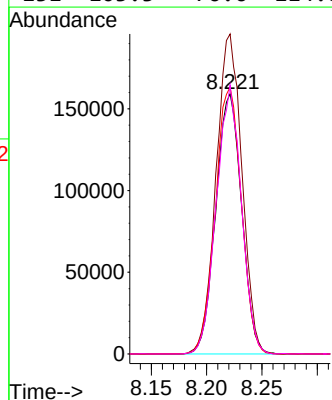
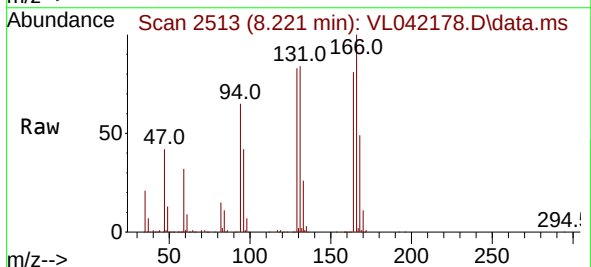
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

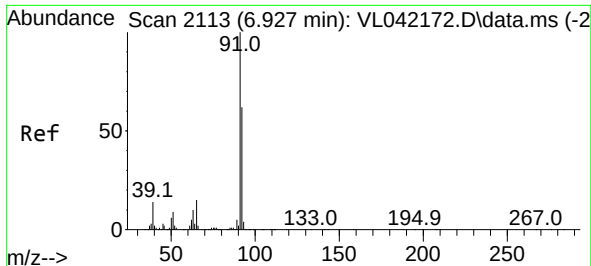
Tgt Ion: 43 Resp: 619419
Ion Ratio Lower Upper
43 100
58 49.0 39.7 59.5
98 0.0 0.1 0.1#



#52
Tetrachloroethene
Concen: 13.159 ppbv
RT: 8.221 min Scan# 2513
Delta R.T. 0.003 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

Tgt Ion:164 Resp: 258356
Ion Ratio Lower Upper
164 100
166 123.0 102.5 153.7
129 102.5 79.8 119.8
131 103.3 76.6 114.8

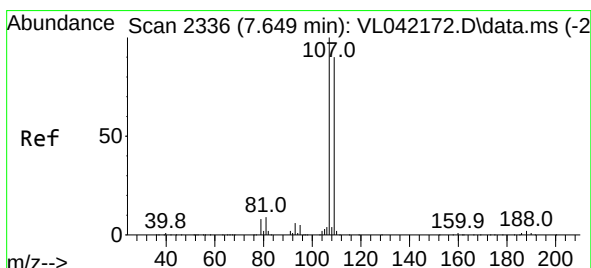
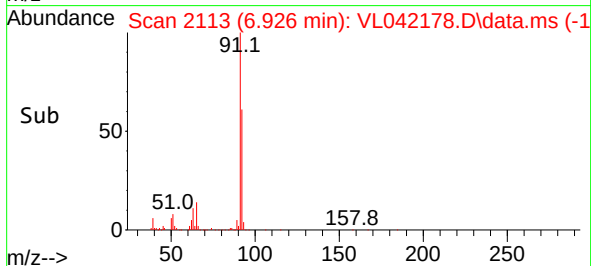
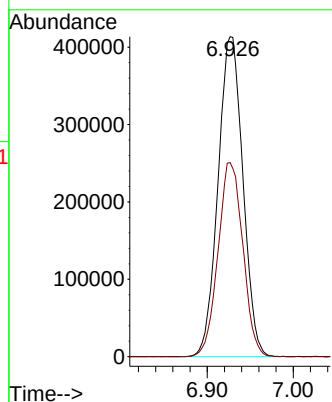
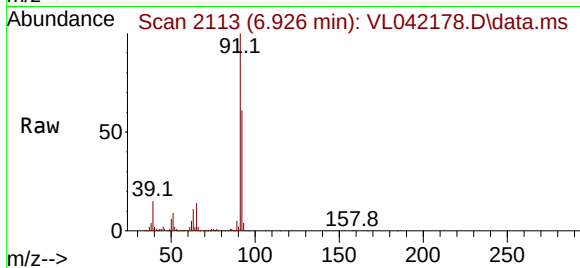




#53
Toluene
Concen: 14.137 ppbv
RT: 6.926 min Scan# 2113
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

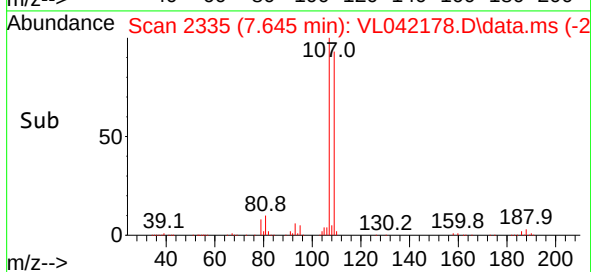
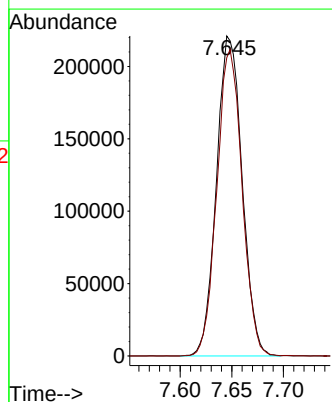
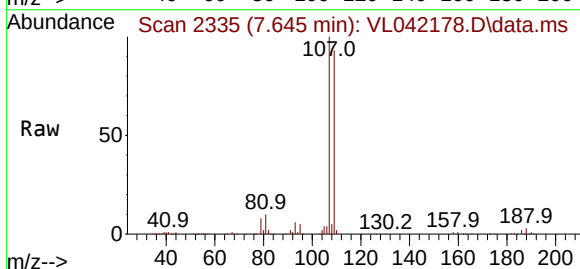
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

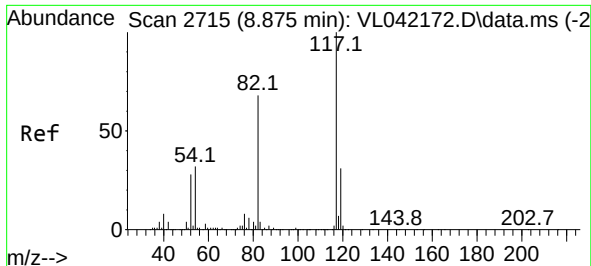
Tgt Ion: 91 Resp: 829648
Ion Ratio Lower Upper
91 100
92 60.6 48.4 72.6



#54
1,2-Dibromoethane
Concen: 14.359 ppbv
RT: 7.645 min Scan# 2335
Delta R.T. -0.004 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

Tgt Ion: 107 Resp: 381823
Ion Ratio Lower Upper
107 100
109 93.2 72.2 108.4

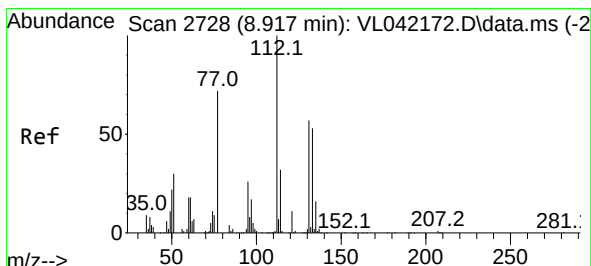
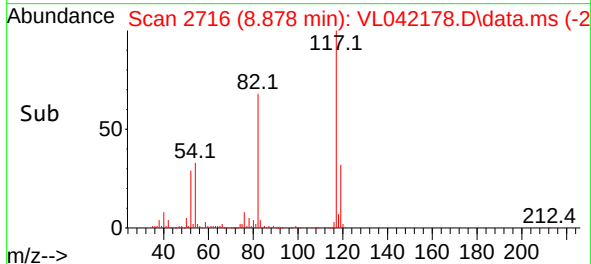
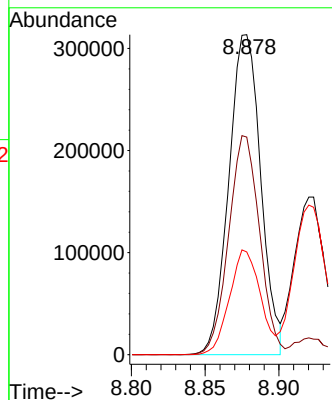
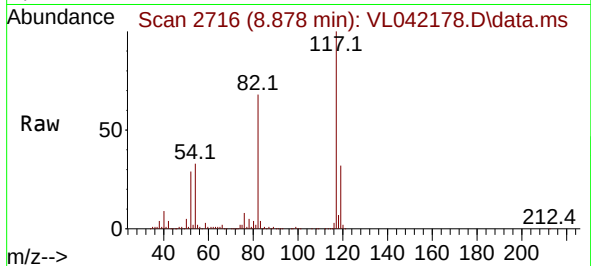




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.878 min Scan# 2715
Delta R.T. 0.003 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

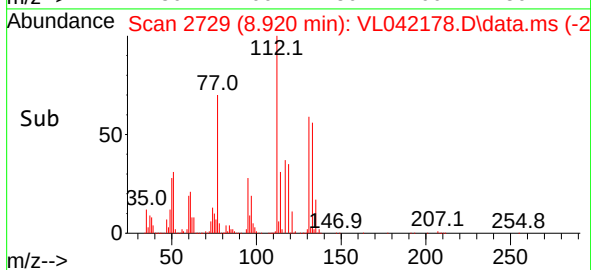
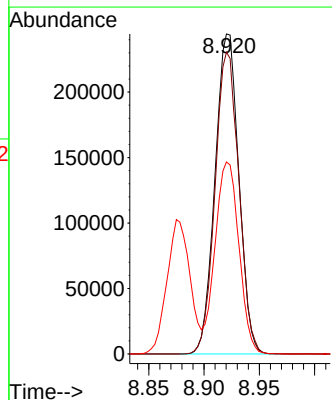
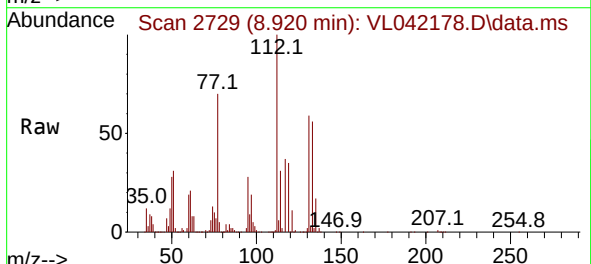
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

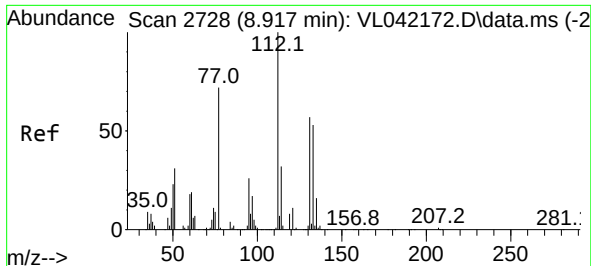
Tgt Ion:117 Resp: 473077
Ion Ratio Lower Upper
117 100
82 71.4 55.8 83.6
119 31.7 25.5 38.3



#56
1,1,1,2-Tetrachloroethane
Concen: 14.032 ppbv
RT: 8.920 min Scan# 2729
Delta R.T. 0.003 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

Tgt Ion:131 Resp: 365410
Ion Ratio Lower Upper
131 100
133 94.5 76.6 114.8
119 61.2 49.8 74.6

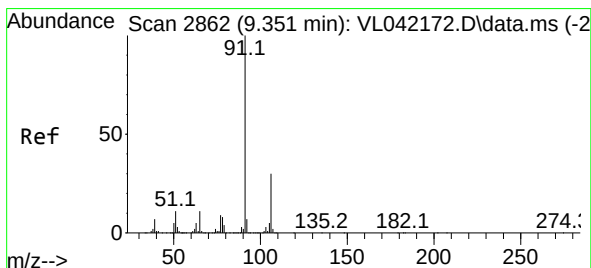
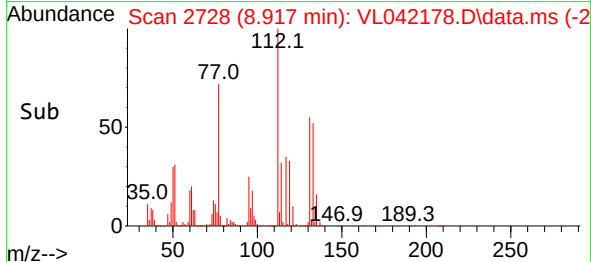
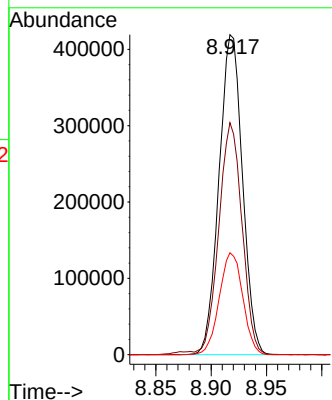
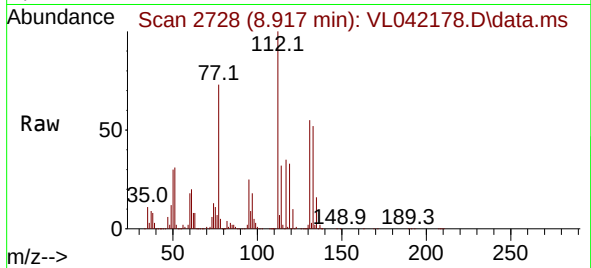




#57
Chlorobenzene
Concen: 13.777 ppbv
RT: 8.917 min Scan# 21
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

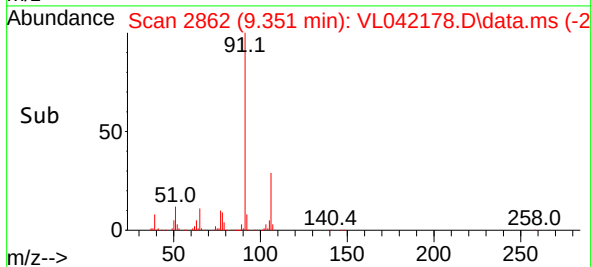
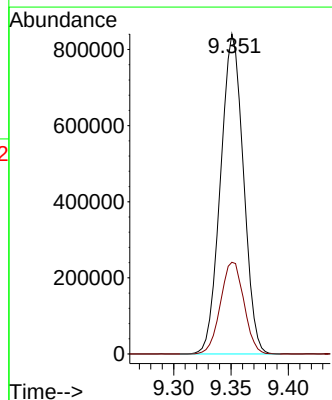
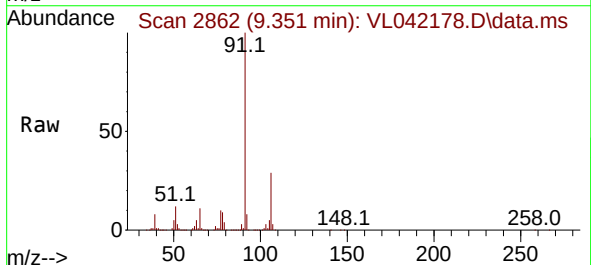
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

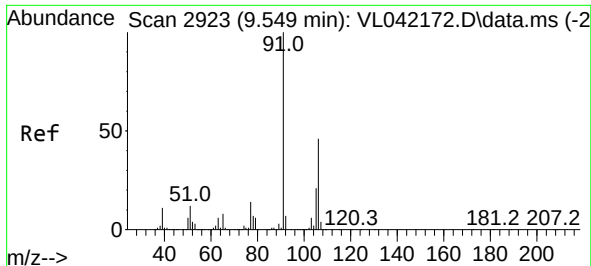
Tgt Ion:112 Resp: 618201
Ion Ratio Lower Upper
112 100
77 72.5 58.2 87.2
114 31.8 29.1 35.5



#58
Ethyl Benzene
Concen: 13.889 ppbv
RT: 9.351 min Scan# 2862
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

Tgt Ion: 91 Resp: 1167096
Ion Ratio Lower Upper
91 100
106 28.7 24.2 36.2





#59

m/p-Xylene

Concen: 12.901 ppbv

RT: 9.548 min Scan# 2923

Delta R.T. -0.000 min

Lab File: VL042178.D

Acq: 27 Mar 2025 11:36

Instrument :

MSVOA_L

ClientSampleId :

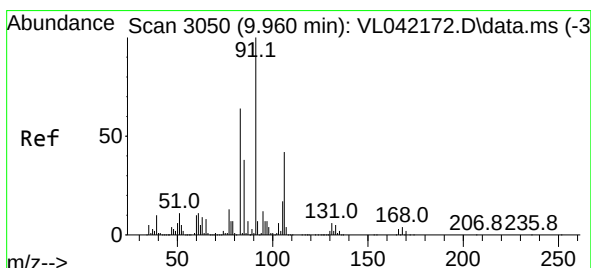
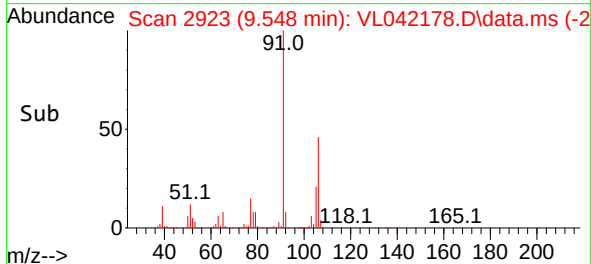
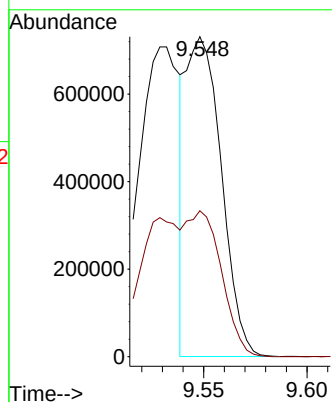
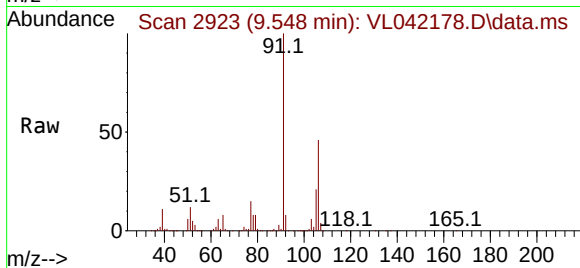
VSTDIC015

Tgt Ion: 91 Resp: 866684

Ion Ratio Lower Upper

91 100

106 96.9 36.4 54.6#



#60

o-Xylene

Concen: 13.577 ppbv

RT: 9.962 min Scan# 3051

Delta R.T. 0.003 min

Lab File: VL042178.D

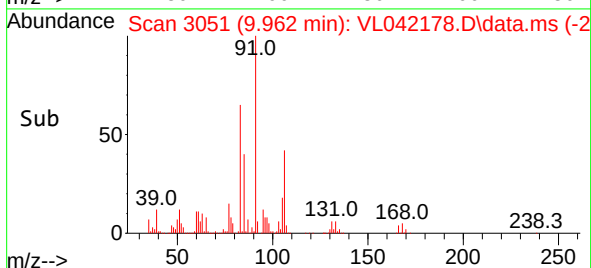
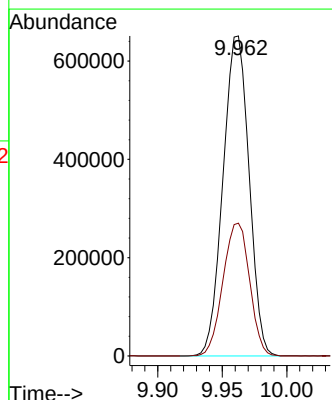
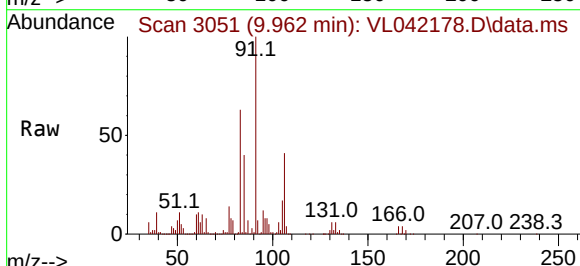
Acq: 27 Mar 2025 11:36

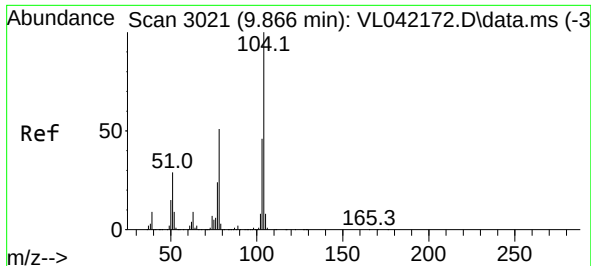
Tgt Ion: 91 Resp: 913234

Ion Ratio Lower Upper

91 100

106 42.4 20.8 62.5

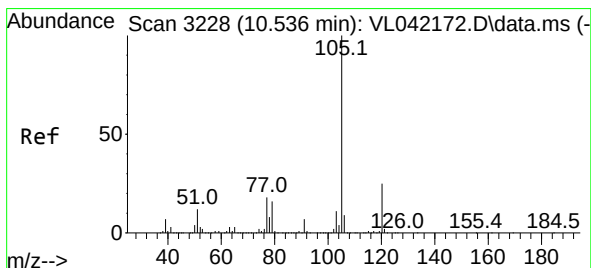
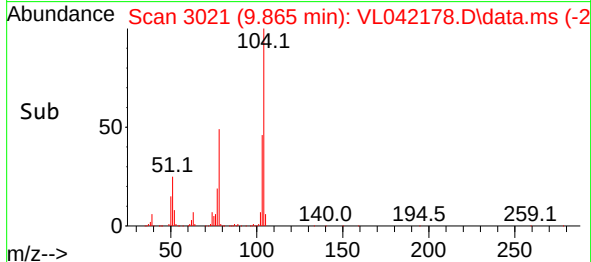
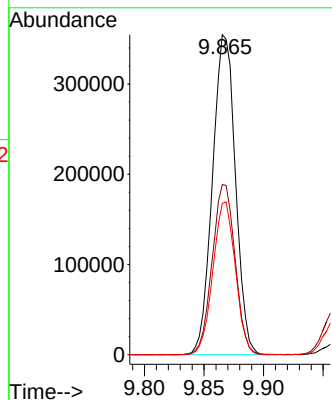
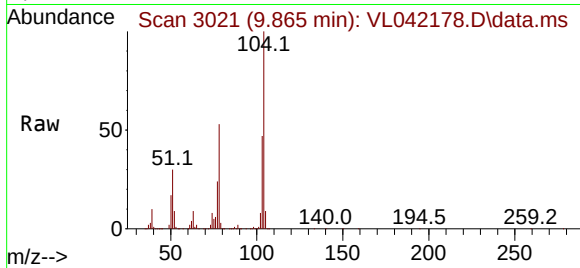




#61
Styrene
Concen: 14.250 ppbv
RT: 9.865 min Scan# 3021
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

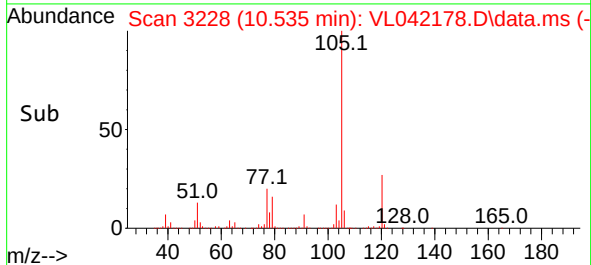
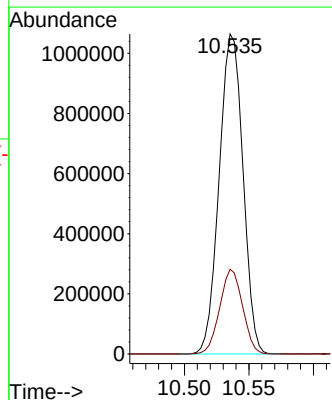
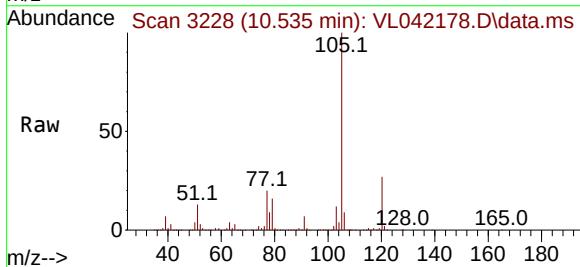
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

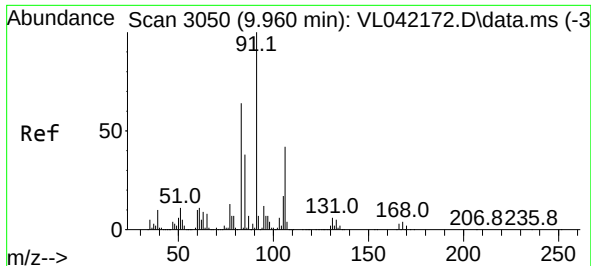
Tgt Ion:104 Resp: 474195
Ion Ratio Lower Upper
104 100
78 53.0 41.8 62.6
103 46.7 37.0 55.4



#62
Isopropylbenzene
Concen: 13.544 ppbv
RT: 10.535 min Scan# 3228
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

Tgt Ion:105 Resp: 1362416
Ion Ratio Lower Upper
105 100
120 25.3 19.9 29.9





#63

1,1,2,2-Tetrachloroethane

Concen: 13.491 ppbv

RT: 9.959 min Scan# 3050

Delta R.T. -0.000 min

Lab File: VL042178.D

Acq: 27 Mar 2025 11:36

Instrument :

MSVOA_1

ClientSampleId :

VSTDIC015

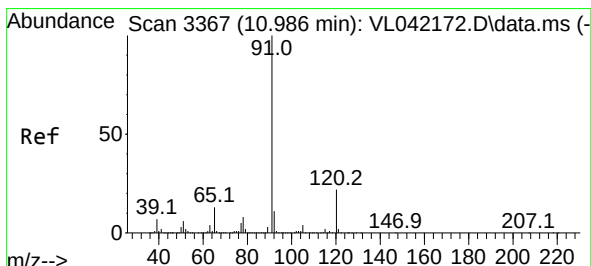
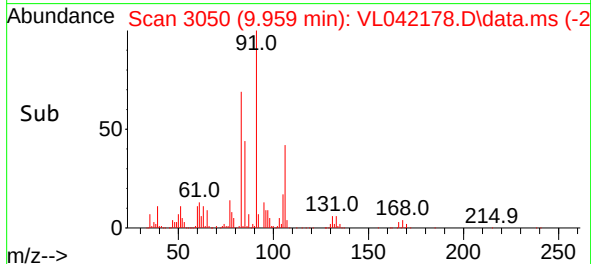
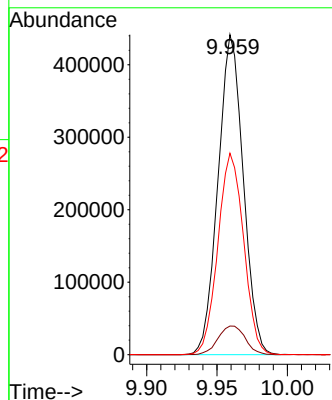
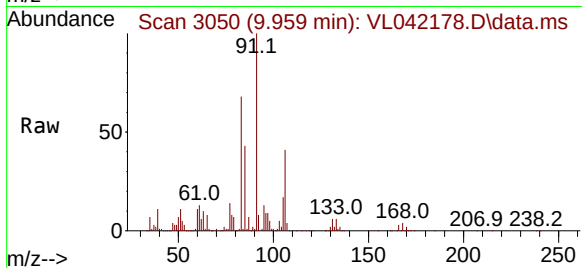
Tgt Ion: 83 Resp: 551386

Ion Ratio Lower Upper

83 100

131 9.6 4.8 14.4

85 64.2 32.5 97.5



#64

n-propylbenzene

Concen: 13.753 ppbv

RT: 10.985 min Scan# 3367

Delta R.T. -0.000 min

Lab File: VL042178.D

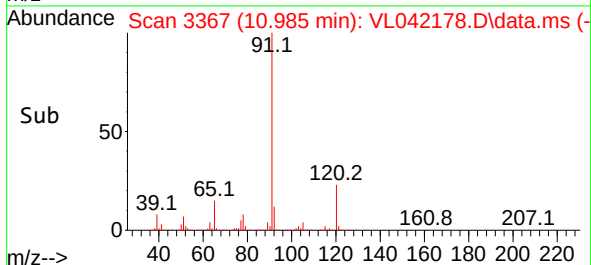
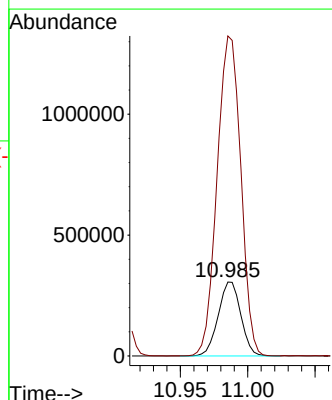
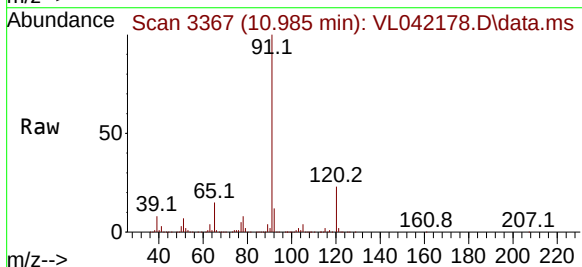
Acq: 27 Mar 2025 11:36

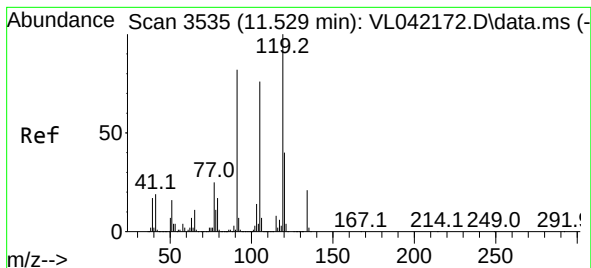
Tgt Ion:120 Resp: 356118

Ion Ratio Lower Upper

120 100

91 455.4 376.9 565.3





#65

tert-Butylbenzene

Concen: 12.901 ppbv

RT: 11.529 min Scan# 3535

Delta R.T. -0.000 min

Lab File: VL042178.D

Acq: 27 Mar 2025 11:36

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

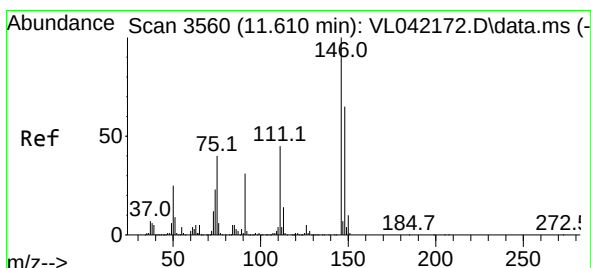
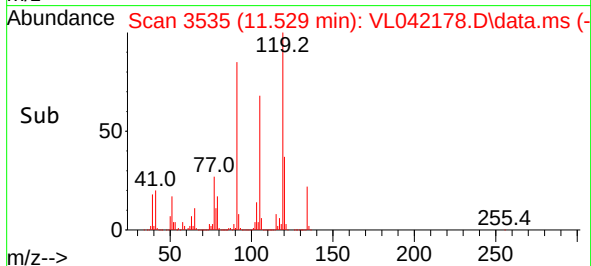
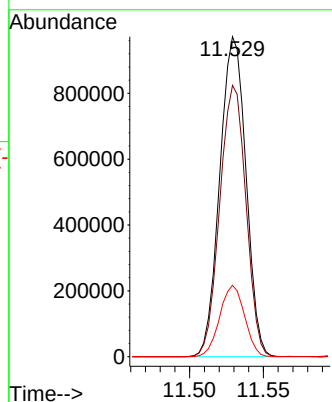
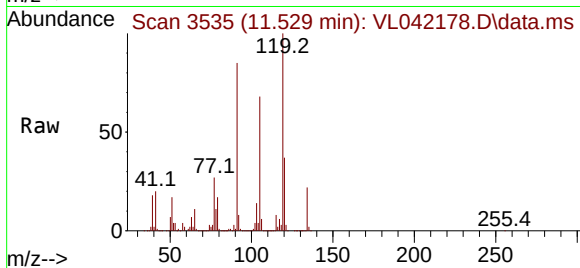
Tgt Ion:119 Resp: 1200149

Ion Ratio Lower Upper

119 100

91 84.6 66.0 99.0

134 21.2 16.7 25.1



#66

Benzyl Chloride

Concen: 13.615 ppbv

RT: 11.613 min Scan# 3561

Delta R.T. 0.003 min

Lab File: VL042178.D

Acq: 27 Mar 2025 11:36

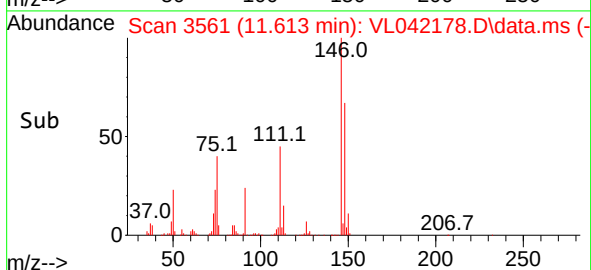
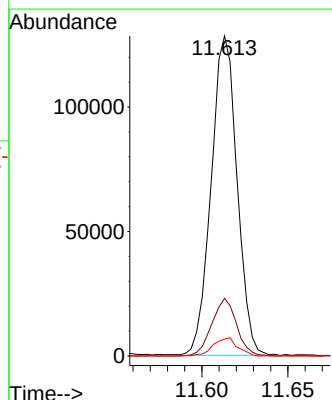
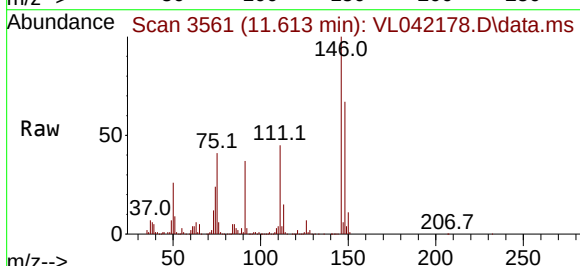
Tgt Ion: 91 Resp: 134397

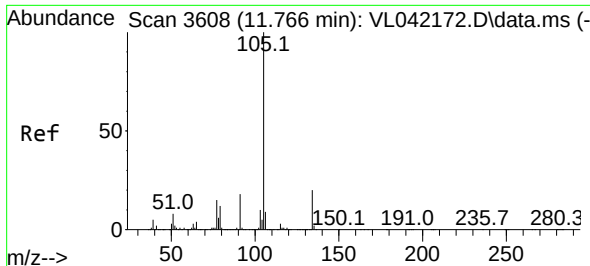
Ion Ratio Lower Upper

91 100

126 17.3 13.8 20.6

128 5.4 4.5 6.7

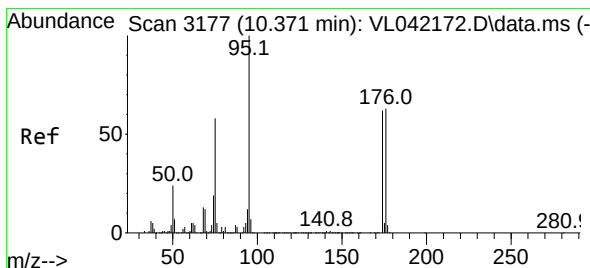
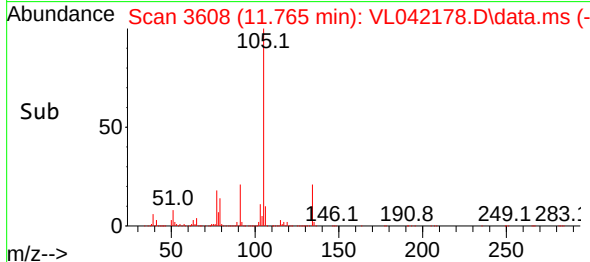
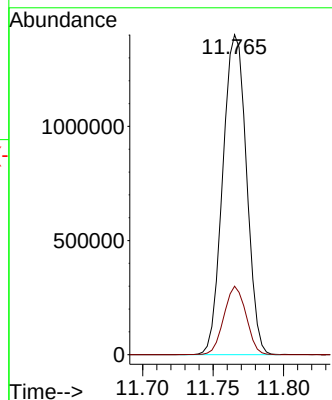
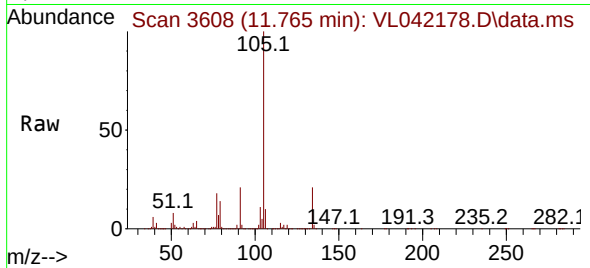




#67
 sec-Butylbenzene
 Concen: 12.711 ppbv
 RT: 11.765 min Scan# 3178
 Delta R.T. -0.000 min
 Lab File: VL042178.D
 Acq: 27 Mar 2025 11:36

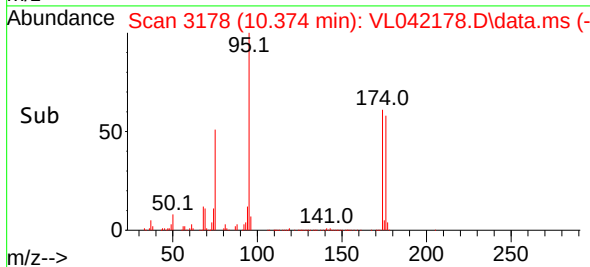
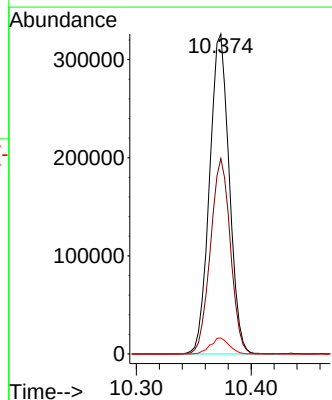
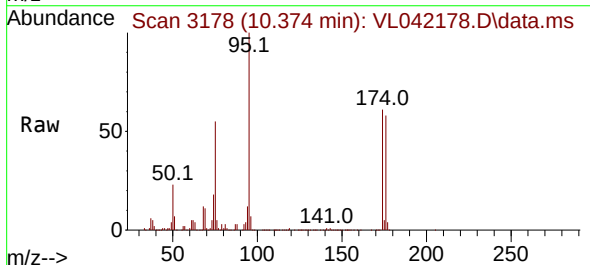
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC015

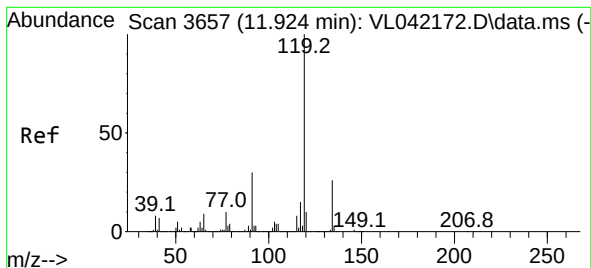
Tgt Ion:105 Resp: 1643629
 Ion Ratio Lower Upper
 105 100
 134 20.0 15.5 23.3



#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.981 ppbv
 RT: 10.374 min Scan# 3178
 Delta R.T. 0.003 min
 Lab File: VL042178.D
 Acq: 27 Mar 2025 11:36

Tgt Ion: 95 Resp: 387777
 Ion Ratio Lower Upper
 95 100
 174 62.1 50.6 76.0
 175 4.8 3.8 5.6

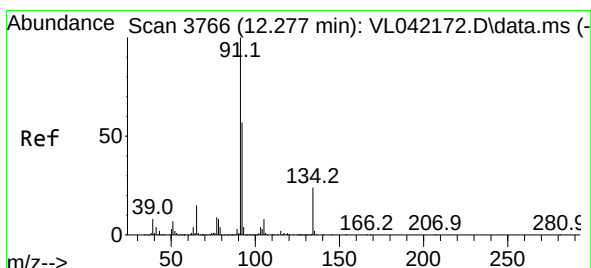
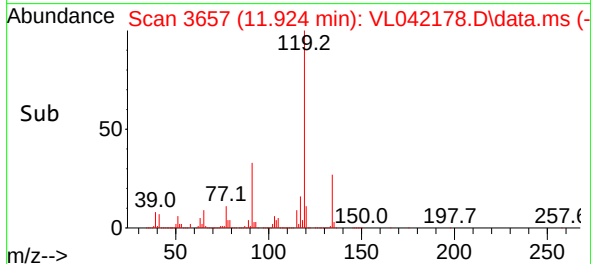
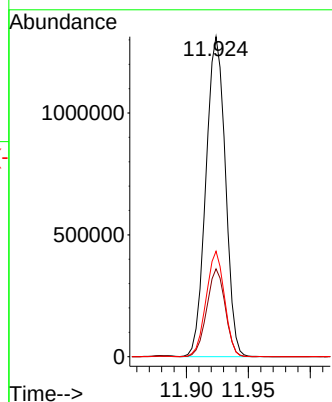
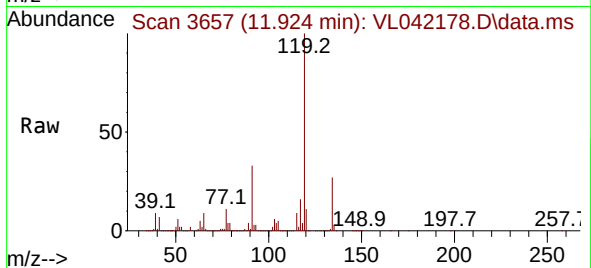




#69
 p-Isopropyltoluene
 Concen: 12.906 ppbv
 RT: 11.924 min Scan# 3657
 Delta R.T. -0.000 min
 Lab File: VL042178.D
 Acq: 27 Mar 2025 11:36

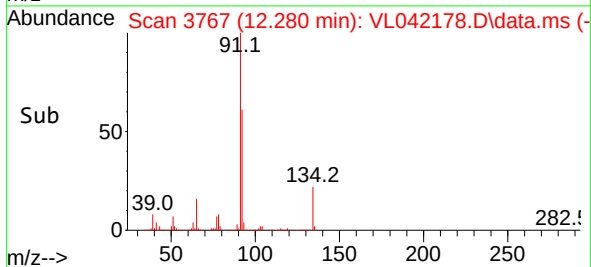
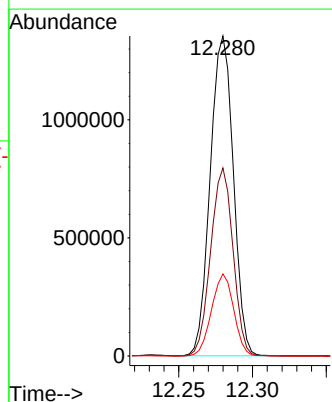
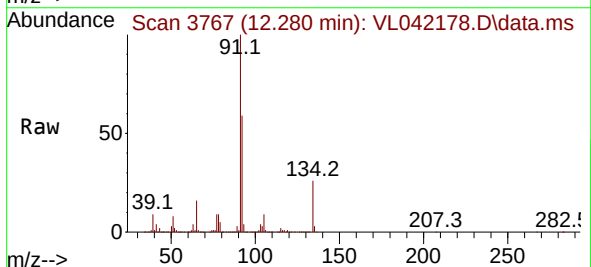
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

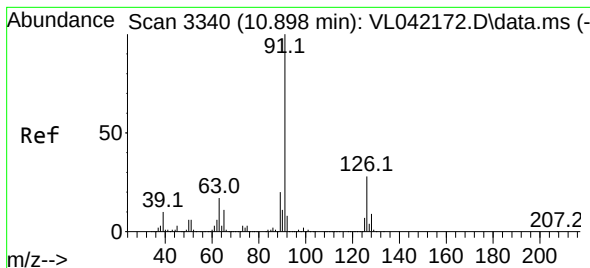
Tgt Ion:119 Resp: 1437016
 Ion Ratio Lower Upper
 119 100
 134 26.2 20.4 30.6
 91 31.2 23.7 35.5



#70
 n-Butylbenzene
 Concen: 12.975 ppbv
 RT: 12.280 min Scan# 3767
 Delta R.T. 0.003 min
 Lab File: VL042178.D
 Acq: 27 Mar 2025 11:36

Tgt Ion: 91 Resp: 1477443
 Ion Ratio Lower Upper
 91 100
 92 57.0 44.9 67.3
 134 24.6 19.2 28.8

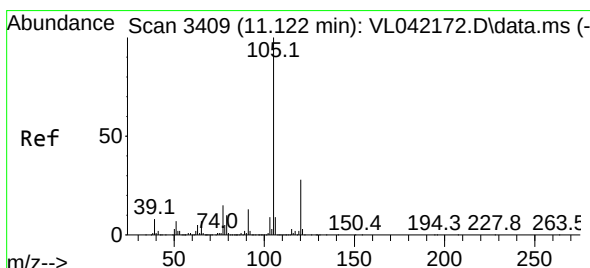
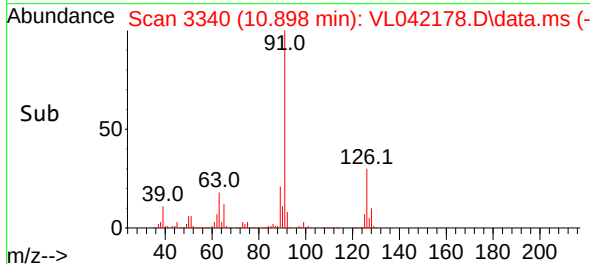
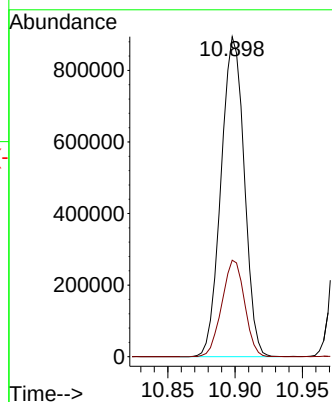
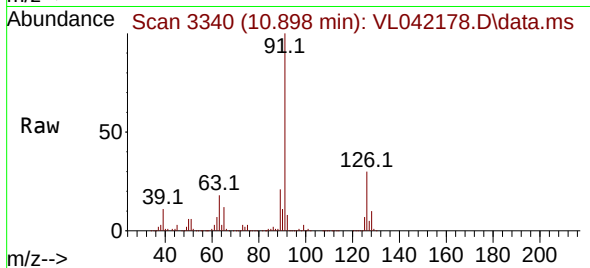




#71
2-Chlorotoluene
Concen: 13.724 ppbv
RT: 10.898 min Scan# 31
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

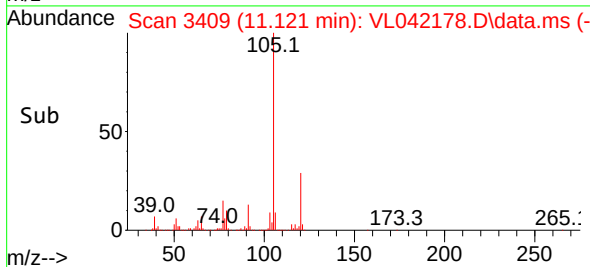
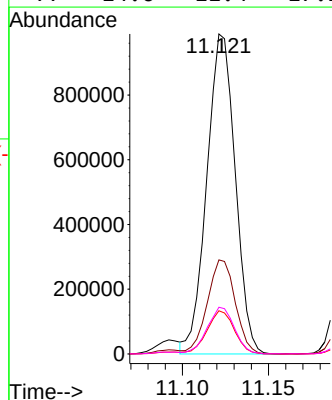
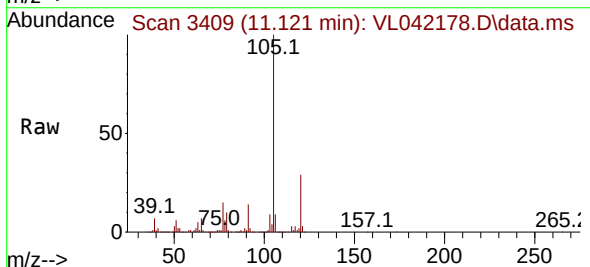
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

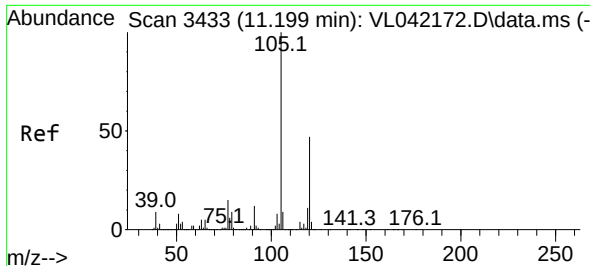
Tgt Ion: 91 Resp: 1071432
Ion Ratio Lower Upper
91 100
126 29.5 11.6 46.4



#72
4-Ethyltoluene
Concen: 13.569 ppbv
RT: 11.121 min Scan# 3409
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

Tgt Ion:105 Resp: 1136415
Ion Ratio Lower Upper
105 100
120 30.1 23.4 35.0
91 13.5 10.3 15.5
77 14.6 11.4 17.2

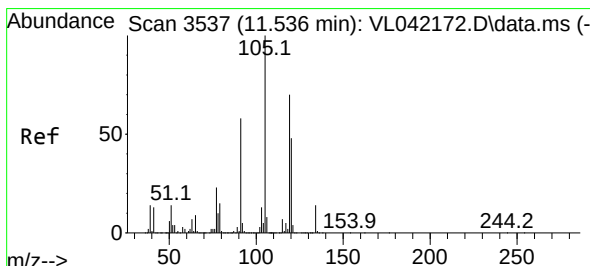
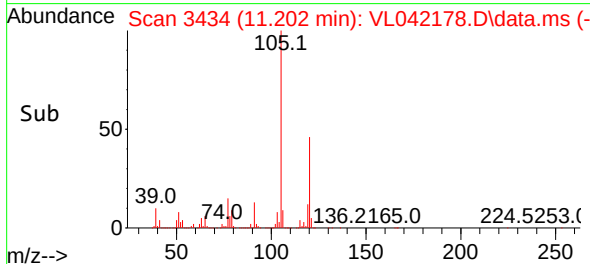
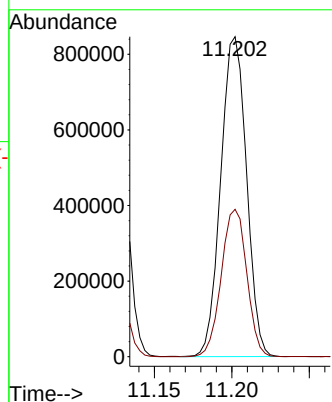
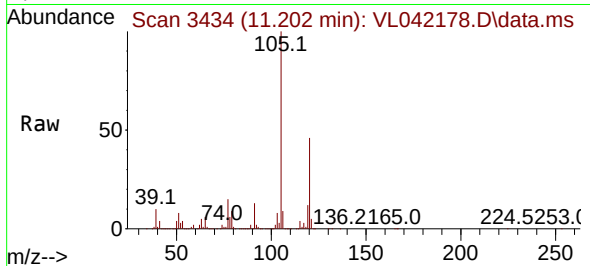




#73
 1,3,5-Trimethylbenzene
 Concen: 13.395 ppbv
 RT: 11.202 min Scan# 3434
 Delta R.T. 0.003 min
 Lab File: VL042178.D
 Acq: 27 Mar 2025 11:36

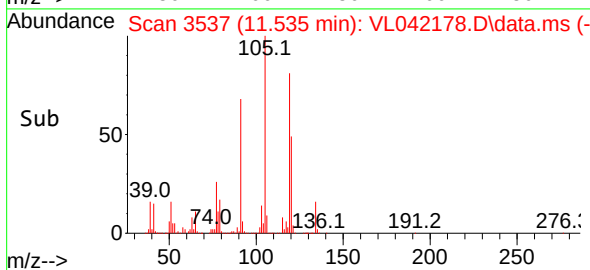
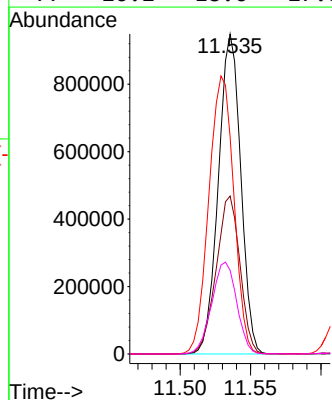
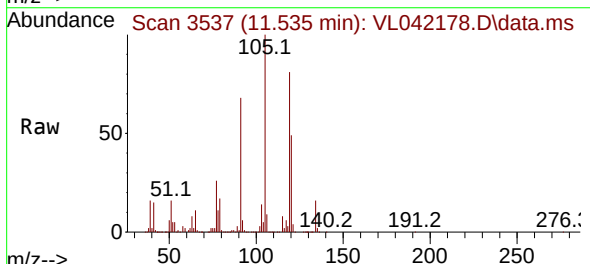
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC015

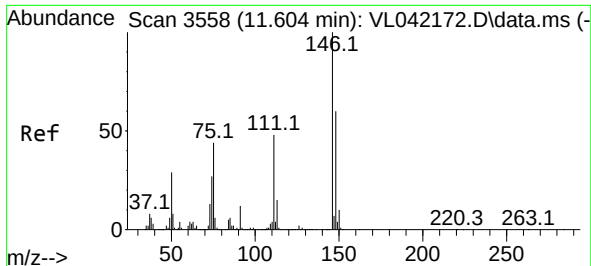
Tgt Ion:105 Resp: 979783
 Ion Ratio Lower Upper
 105 100
 120 46.1 37.4 56.0



#74
 1,2,4-Trimethylbenzene
 Concen: 12.447 ppbv
 RT: 11.535 min Scan# 3537
 Delta R.T. -0.000 min
 Lab File: VL042178.D
 Acq: 27 Mar 2025 11:36

Tgt Ion:105 Resp: 1048874
 Ion Ratio Lower Upper
 105 100
 120 49.3 38.6 58.0
 91 67.8 46.2 69.2
 77 26.2 18.6 27.8

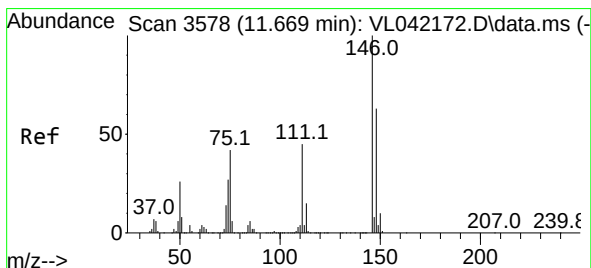
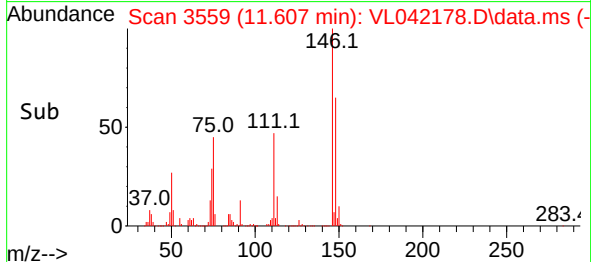
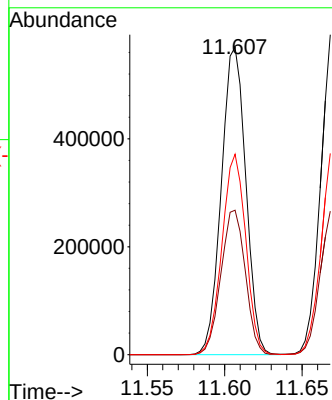
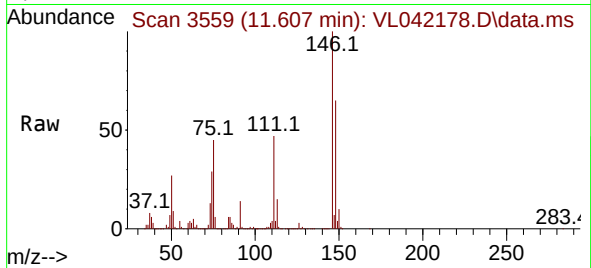




#75
1,3-Dichlorobenzene
Concen: 13.545 ppbv
RT: 11.607 min Scan# 3559
Delta R.T. 0.003 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

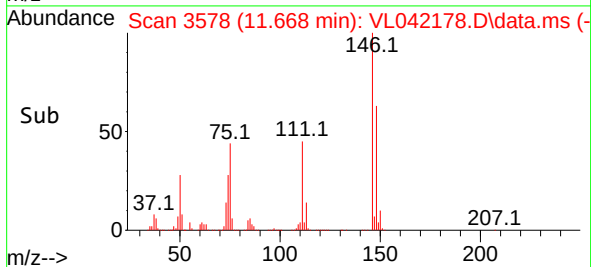
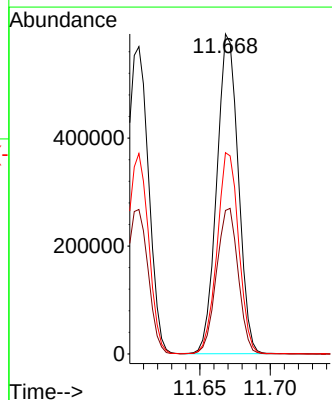
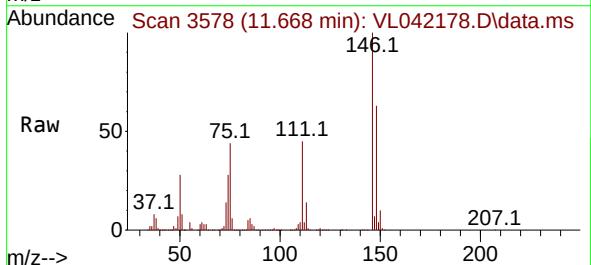
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC015

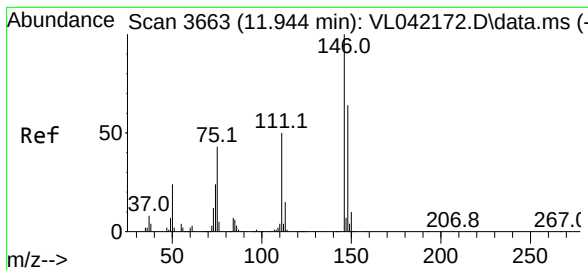
Tgt Ion:146 Resp: 626015
Ion Ratio Lower Upper
146 100
111 47.0 23.8 71.2
148 63.5 31.9 95.9



#76
1,4-Dichlorobenzene
Concen: 13.668 ppbv
RT: 11.668 min Scan# 3578
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

Tgt Ion:146 Resp: 628694
Ion Ratio Lower Upper
146 100
111 46.1 23.0 69.0
148 63.6 31.9 95.7





#77

1,2-Dichlorobenzene

Concen: 13.396 ppbv

RT: 11.947 min Scan# 3663

Delta R.T. 0.003 min

Lab File: VL042178.D

Acq: 27 Mar 2025 11:36

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

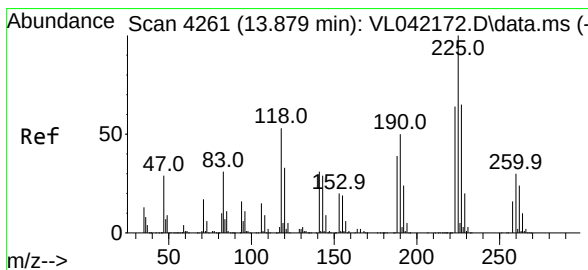
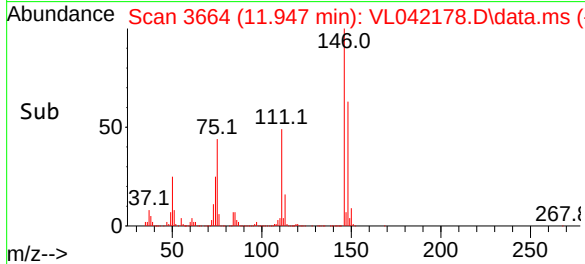
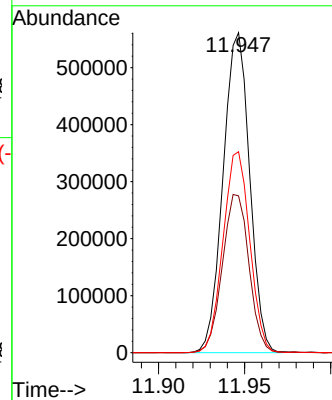
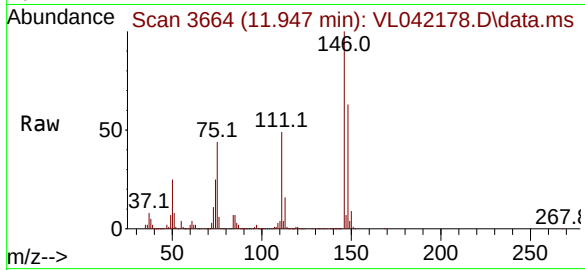
Tgt Ion:146 Resp: 602844

Ion Ratio Lower Upper

146 100

111 49.7 24.8 74.3

148 63.3 31.6 94.8



#78

Hexachloro-1,3-Butadiene

Concen: 12.147 ppbv

RT: 13.882 min Scan# 4262

Delta R.T. 0.003 min

Lab File: VL042178.D

Acq: 27 Mar 2025 11:36

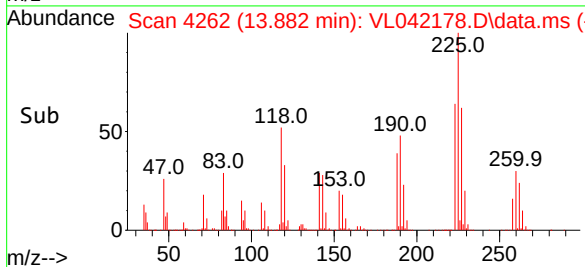
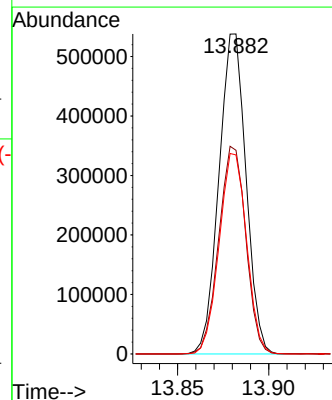
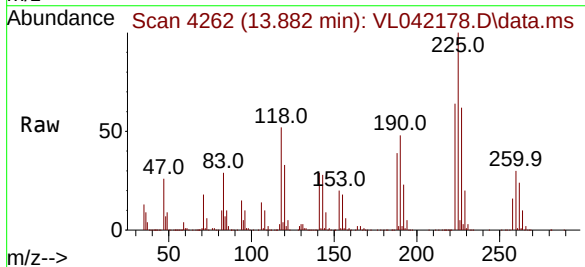
Tgt Ion:225 Resp: 556392

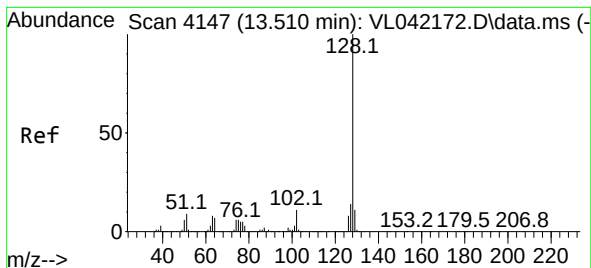
Ion Ratio Lower Upper

225 100

223 64.7 50.6 76.0

227 63.3 51.2 76.8





#79

Naphthalene

Concen: 13.653 ppbv

RT: 13.513 min Scan# 4147

Delta R.T. 0.003 min

Lab File: VL042178.D

Acq: 27 Mar 2025 11:36

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

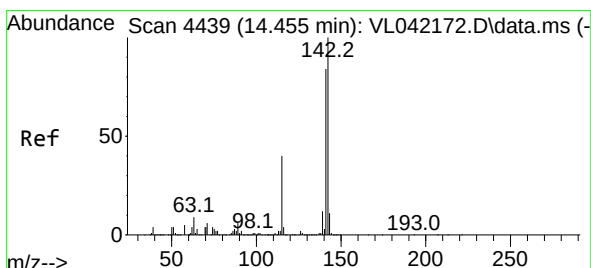
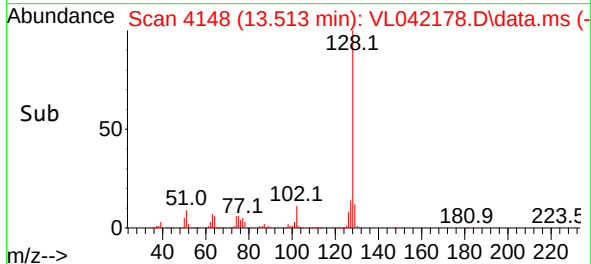
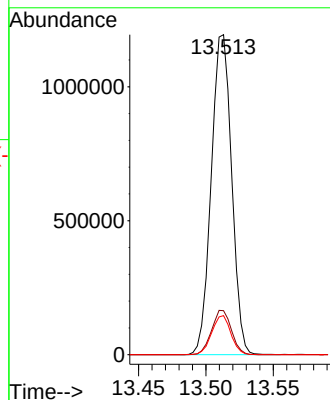
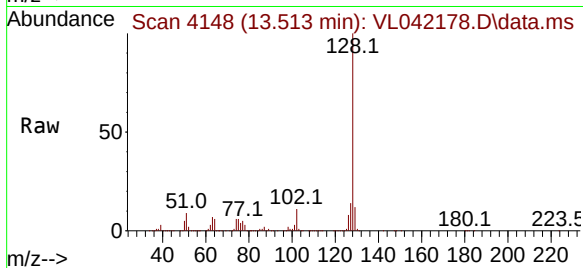
Tgt Ion:128 Resp: 1258479

Ion Ratio Lower Upper

128 100

127 13.8 10.8 16.2

129 12.2 9.0 13.4



#80

Naphthalene,2-methyl-

Concen: 16.018 ppbv

RT: 14.455 min Scan# 4439

Delta R.T. -0.000 min

Lab File: VL042178.D

Acq: 27 Mar 2025 11:36

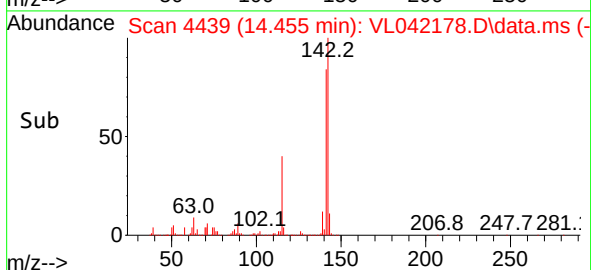
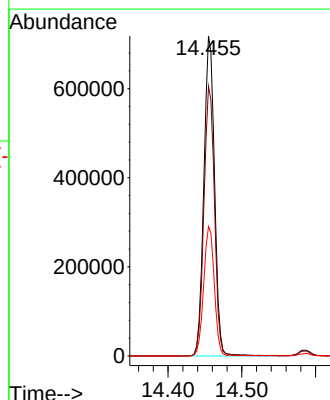
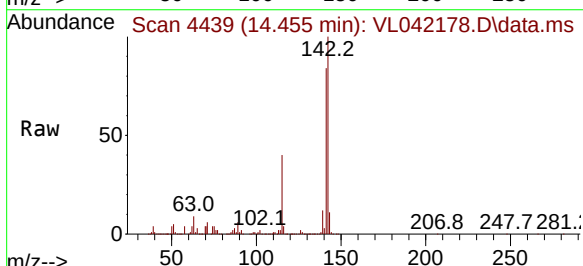
Tgt Ion:142 Resp: 718900

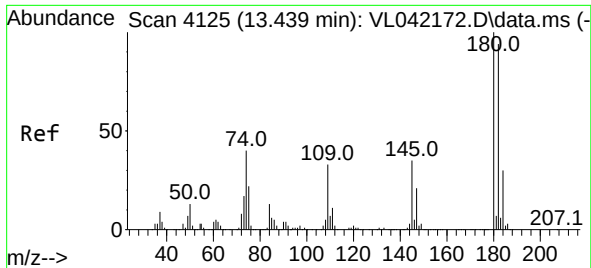
Ion Ratio Lower Upper

142 100

141 84.3 66.3 99.5

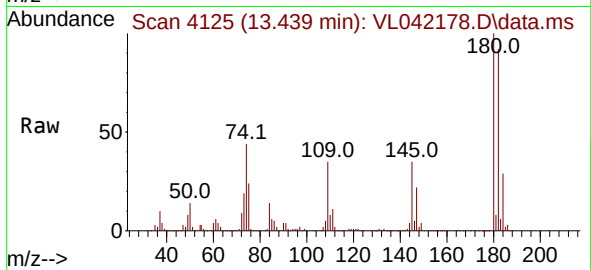
115 40.6 31.6 47.4



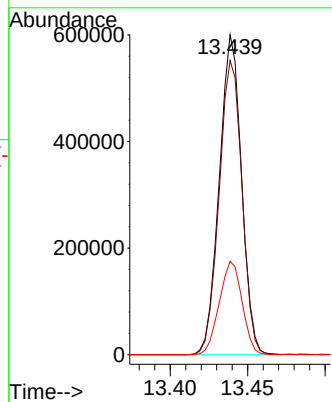
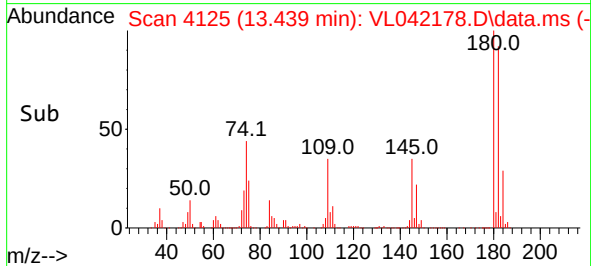


#81
 1,2,4-Trichlorobenzene
 Concen: 14.075 ppbv
 RT: 13.439 min Scan# 41
 Delta R.T. -0.000 min
 Lab File: VL042178.D
 Acq: 27 Mar 2025 11:36

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015



Tgt Ion:180 Resp: 598416
 Ion Ratio Lower Upper
 180 100
 182 94.7 75.1 112.7
 184 30.1 24.4 36.6



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
 Data File : VL042179.D
 Acq On : 27 Mar 2025 12:23
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICSVVL032725

Quant Time: Mar 28 02:05:15 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri Mar 28 02:00:52 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.784	49	174350	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.952	114	498105	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.878	117	473357	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.374	95	379929	9.774	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.700%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.496	85	245714	9.545	ppbv	100
3) Chlorodifluoromethane	1.473	51	247046	9.394	ppbv	97
4) Chloromethane	1.531	50	98527	9.365	ppbv	98
5) Vinyl Chloride	1.577	62	95578	8.573	ppbv	97
6) Bromomethane	1.667	94	41950	8.799	ppbv	97
7) Chloroethane	1.703	64	37400	8.856	ppbv	94
8) Dichlorotetrafluoroethane	1.551	85	213819	9.753	ppbv	95
9) Propene	1.483	41	105338	8.739	ppbv	99
10) Heptane	4.972	43	298768	9.318	ppbv	100
11) Trichlorofluoromethane	1.874	101	236793	9.453	ppbv	97
12) 1,1,2-Trichlorotrifluo...	2.136	101	193965	9.421	ppbv	98
13) Ethanol	1.719	45	5773	5.066	ppbv	97
14) Bromoethene	1.780	108	73572	9.328	ppbv	97
15) Acetone	1.832	43	198300	8.132	ppbv	98
16) 1,3-Butadiene	1.606	39	97840	8.216	ppbv	99
17) tert-Butyl alcohol	2.039	59	276195	9.094	ppbv	99
18) 1,1-Dichloroethene	2.033	96	87137	9.053	ppbv	89
19) Isopropyl Alcohol	1.884	45	122768	8.923	ppbv	98
20) Methylene Chloride	2.059	84	72813	8.018	ppbv	97
21) Allyl Chloride	2.094	41	157418	9.154	ppbv	99
22) trans-1,2-Dichloroethene	2.337	96	101141	9.092	ppbv	93
23) Vinyl Acetate	2.460	43	90260	8.553	ppbv #	97
24) 1,1-Dichloroethane	2.405	63	197968	9.600	ppbv	99
25) Ethyl Acetate	2.832	43	592585	9.364	ppbv	99
26) Hexane	2.823	57	231125	9.455	ppbv	99
27) Carbon Disulfide	2.146	76	248834	9.493	ppbv	97
28) Methyl tert-Butyl Ether	2.437	73	146470	9.624	ppbv	95
29) Chloroform	2.845	83	344106	9.619	ppbv	100
30) Cyclohexane	3.852	84	197897	9.323	ppbv	98
31) cis-1,2-Dichloroethene	2.719	61	234487	9.449	ppbv	96
32) 1,1,1-Trichloroethane	3.363	97	365364	8.921	ppbv	99
34) 2-Butanone	2.554	43	331236	9.171	ppbv	99
35) Carbon Tetrachloride	3.758	117	363392	9.339	ppbv	98
36) Benzene	3.651	78	461261	9.341	ppbv	99
37) 1,2-Dichloroethane	3.217	62	273559	9.676	ppbv	99
38) Trichloroethene	4.541	130	191746	9.306	ppbv	97
39) 1,2-Dichloropropane	4.311	63	170839	9.500	ppbv	95
40) 1,4-Dioxane	4.577	88	80592	8.443	ppbv #	97
41) Tetrahydrofuran	3.052	42	196163	9.431	ppbv	99
42) Bromodichloromethane	4.486	83	384006	9.853	ppbv	100
43) Methyl Methacrylate	4.878	69	195339	9.344	ppbv	99
44) 2,2,4-Trimethylpentane	4.635	57	787400	9.436	ppbv	99
45) t-1,3-Dichloropropene	6.409	75	212335	9.467	ppbv	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
 Data File : VL042179.D
 Acq On : 27 Mar 2025 12:23
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

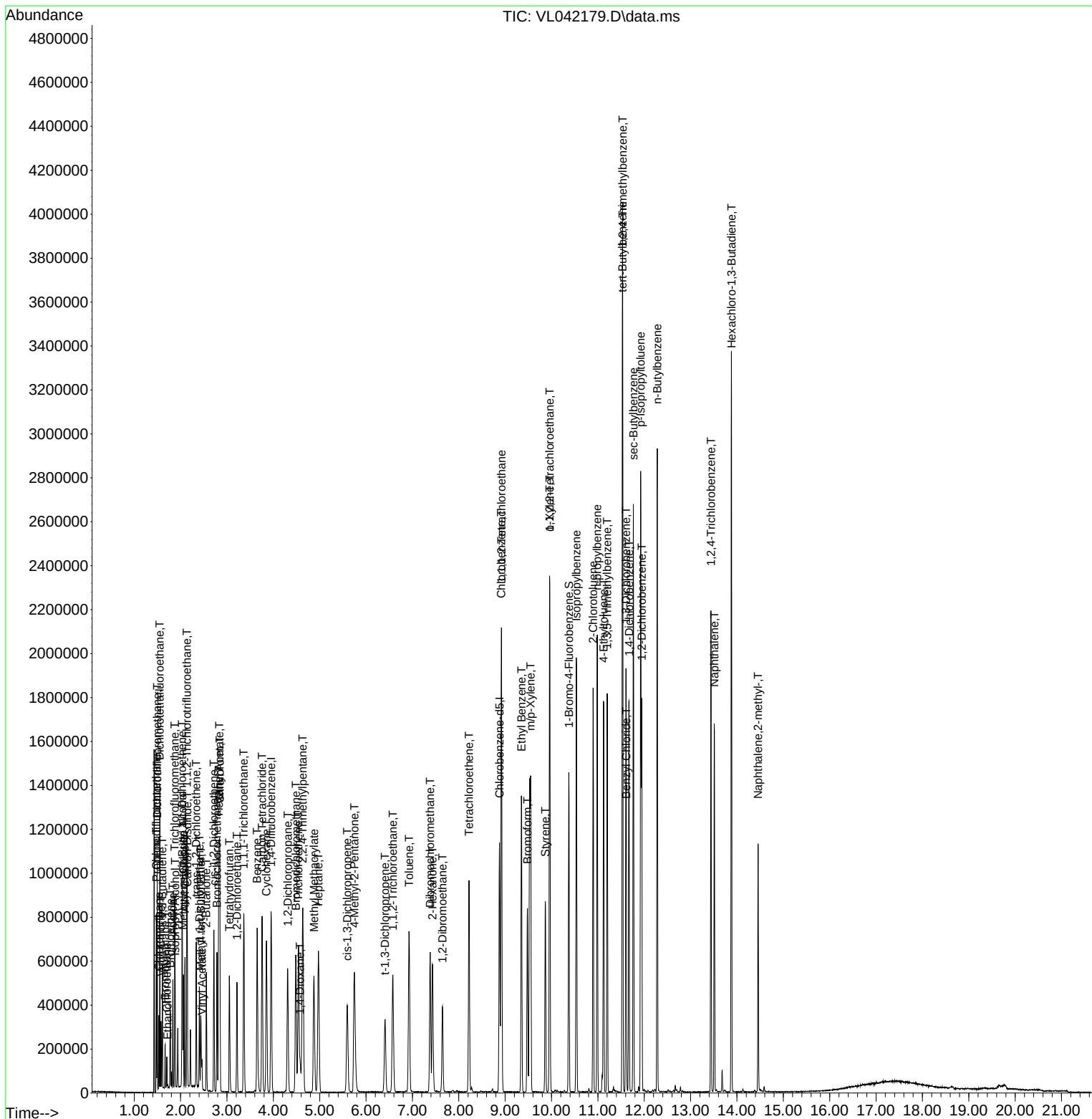
Instrument :
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 ClientSampleId :
 ICVVL032725

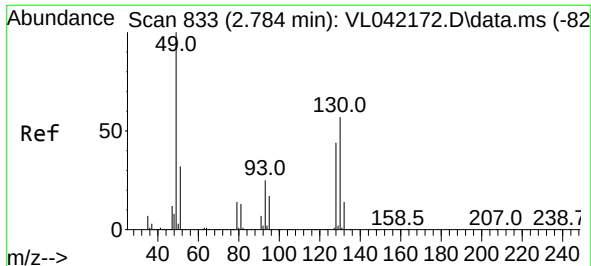
Quant Time: Mar 28 02:05:15 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri Mar 28 02:00:52 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.593	75	265101	9.643	ppbv	98
47) 1,1,2-Trichloroethane	6.577	97	183228	9.638	ppbv	98
48) Dibromochloromethane	7.383	129	322766	10.018	ppbv	100
49) Bromoform	9.480	173	285149	9.858	ppbv	99
50) 4-Methyl-2-Pentanone	5.749	43	500791	8.749	ppbv	99
51) 2-Hexanone	7.432	43	410889	8.741	ppbv #	99
52) Tetrachloroethene	8.221	164	173420	8.855	ppbv	93
53) Toluene	6.927	91	556897	9.514	ppbv	99
54) 1,2-Dibromoethane	7.645	107	256930	9.695	ppbv	98
56) 1,1,1,2-Tetrachloroethane	8.920	131	249270	9.567	ppbv	99
57) Chlorobenzene	8.917	112	422531	9.411	ppbv	98
58) Ethyl Benzene	9.351	91	791360	9.412	ppbv	98
59) m/p-Xylene	9.548	91	583773	8.695	ppbv #	20
60) o-Xylene	9.959	91	632918	9.404	ppbv	99
61) Styrene	9.866	104	315910	9.488	ppbv	99
62) Isopropylbenzene	10.539	105	944938	9.388	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.959	83	382635	9.357	ppbv	99
64) n-propylbenzene	10.985	120	244547	9.439	ppbv	98
65) tert-Butylbenzene	11.529	119	843828	9.065	ppbv	98
66) Benzyl Chloride	11.613	91	86804	8.789	ppbv	97
67) sec-Butylbenzene	11.765	105	1172636	9.063	ppbv	100
69) p-Isopropyltoluene	11.924	119	1019694	9.153	ppbv	100
70) n-Butylbenzene	12.280	91	1038548	9.115	ppbv	100
71) 2-Chlorotoluene	10.898	91	732874	9.382	ppbv	100
72) 4-Ethyltoluene	11.125	105	785185	9.370	ppbv	99
73) 1,3,5-Trimethylbenzene	11.202	105	673541	9.203	ppbv	98
74) 1,2,4-Trimethylbenzene	11.536	105	729155	8.648	ppbv	94
75) 1,3-Dichlorobenzene	11.607	146	426573	9.224	ppbv	99
76) 1,4-Dichlorobenzene	11.672	146	426318	9.263	ppbv	100
77) 1,2-Dichlorobenzene	11.947	146	412180	9.154	ppbv	99
78) Hexachloro-1,3-Butadiene	13.882	225	356386	7.776	ppbv	100
79) Naphthalene	13.513	128	773311	8.385	ppbv	99
80) Naphthalene,2-methyl-	14.455	142	323443	7.151	ppbv	99
81) 1,2,4-Trichlorobenzene	13.439	180	363863	8.553	ppbv	98

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

Quant Time: Mar 28 02:05:15 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Mar 28 02:00:52 2025
Response via : Initial Calibration

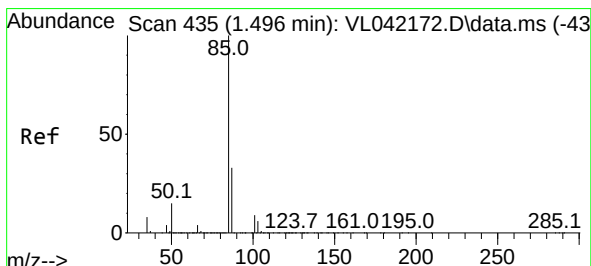
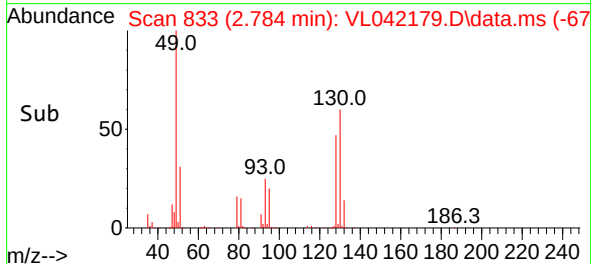
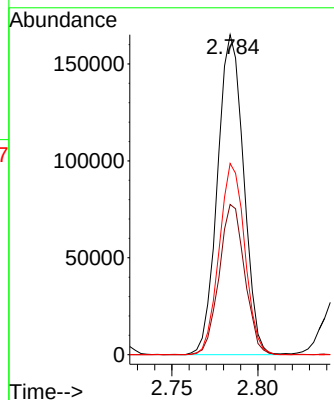
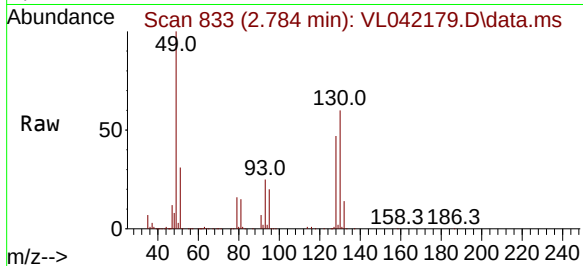




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 833
Delta R.T. -0.000 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

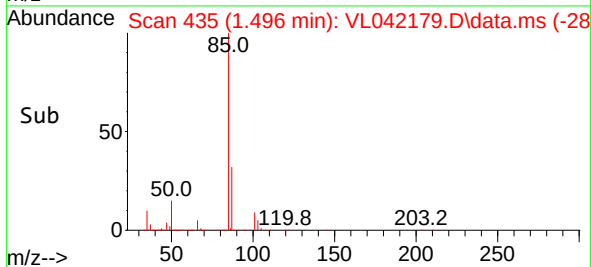
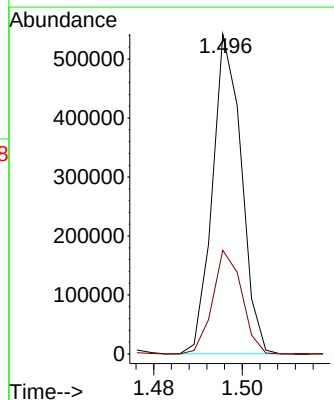
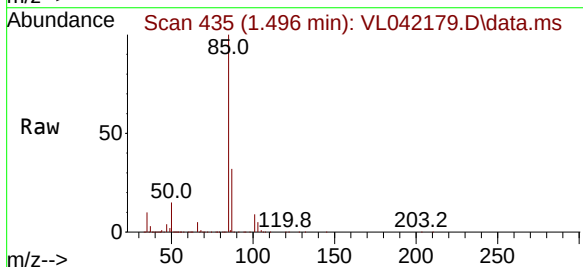
Instrument :
MSVOA_L
ClientSampleId :
ICVVL032725

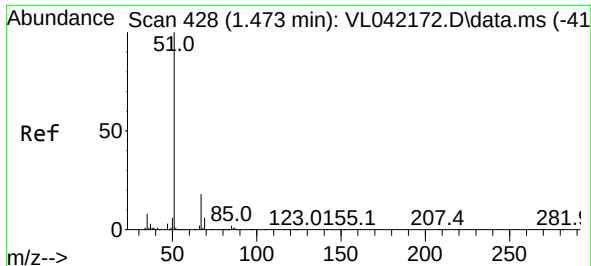
Tgt Ion: 49 Resp: 174350
Ion Ratio Lower Upper
49 100
128 45.8 22.9 68.5
130 58.4 28.8 86.4



#2
Dichlorodifluoromethane
Concen: 9.545 ppbv
RT: 1.496 min Scan# 435
Delta R.T. -0.000 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

Tgt Ion: 85 Resp: 245714
Ion Ratio Lower Upper
85 100
87 32.4 26.1 39.1

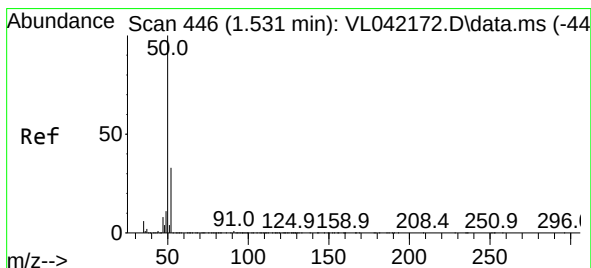
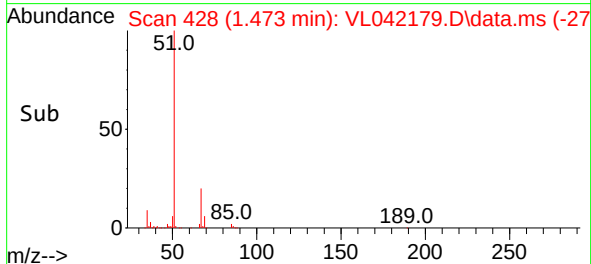
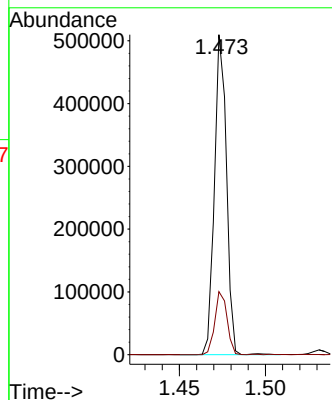
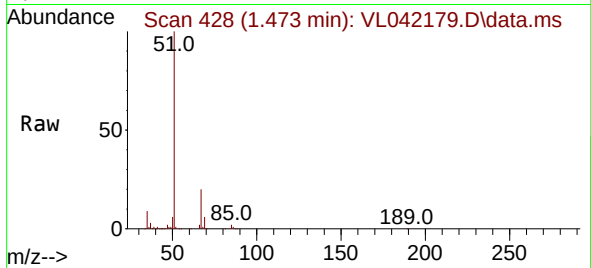




#3
Chlorodifluoromethane
Concen: 9.394 ppbv
RT: 1.473 min Scan# 428
Delta R.T. -0.000 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

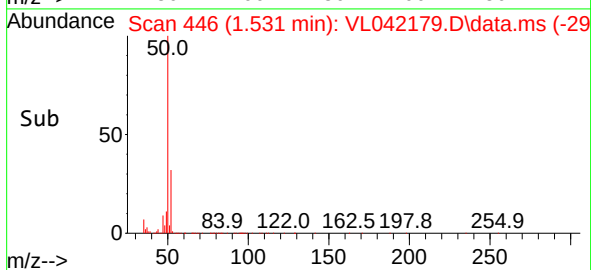
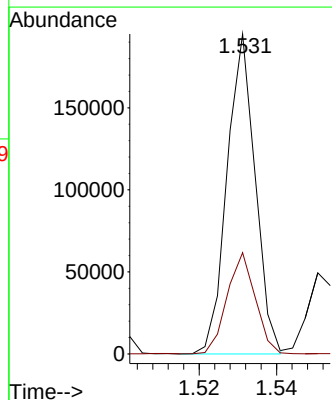
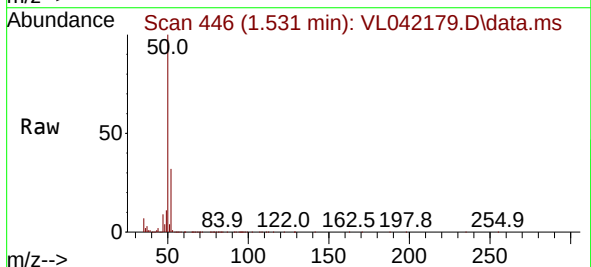
Instrument : MSVOA_L
ClientSampleId : ICVVL032725

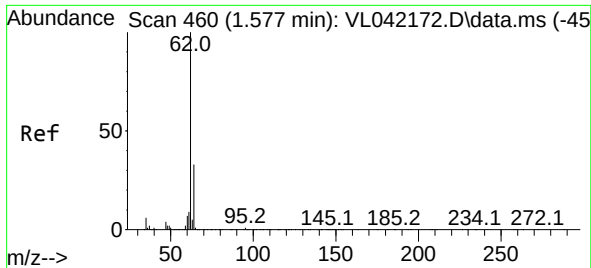
Tgt Ion: 51 Resp: 247046
Ion Ratio Lower Upper
51 100
67 20.1 15.0 22.6



#4
Chloromethane
Concen: 9.365 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

Tgt Ion: 50 Resp: 98527
Ion Ratio Lower Upper
50 100
52 31.6 26.1 39.1

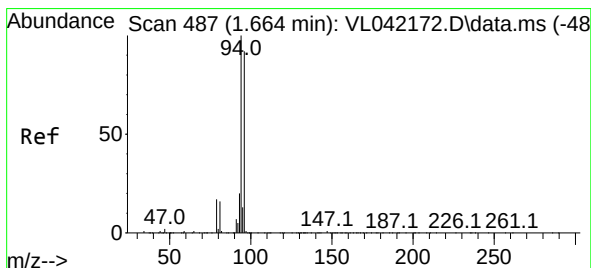
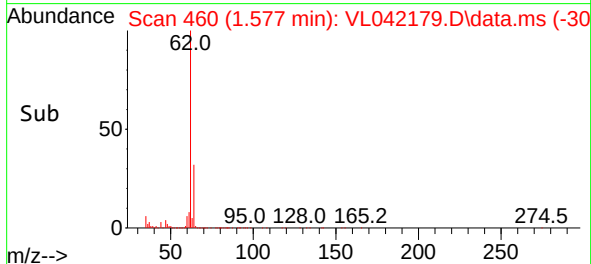
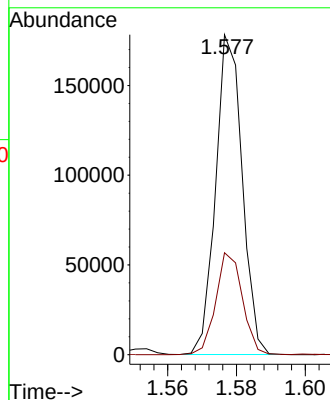
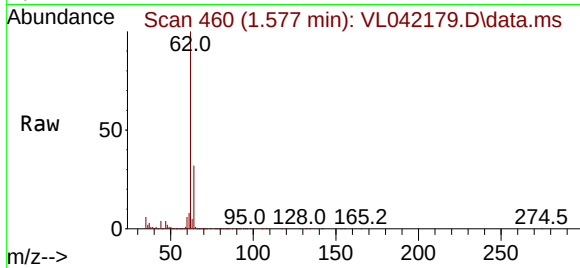




#5
 Vinyl Chloride
 Concen: 8.573 ppbv
 RT: 1.577 min Scan# 4
 Delta R.T. -0.000 min
 Lab File: VL042179.D
 Acq: 27 Mar 2025 12:23

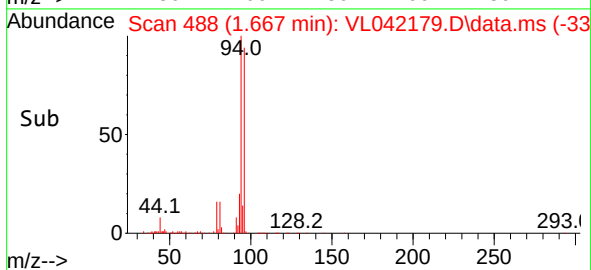
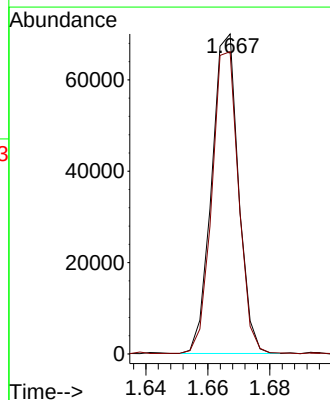
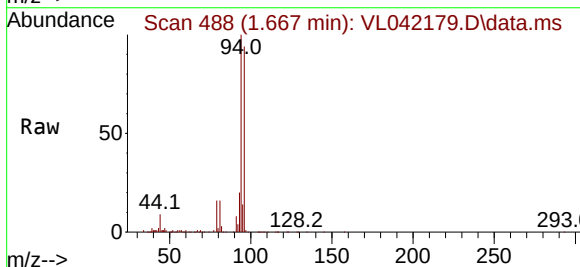
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 ClientSampleId :
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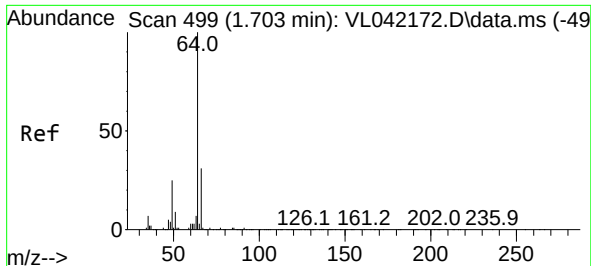
Tgt Ion: 62 Resp: 95578
 Ion Ratio Lower Upper
 62 100
 64 31.8 26.6 40.0



#6
 Bromomethane
 Concen: 8.799 ppbv
 RT: 1.667 min Scan# 488
 Delta R.T. 0.003 min
 Lab File: VL042179.D
 Acq: 27 Mar 2025 12:23

Tgt Ion: 94 Resp: 41950
 Ion Ratio Lower Upper
 94 100
 96 94.4 73.1 109.7

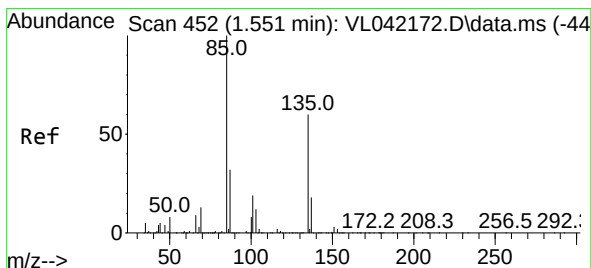
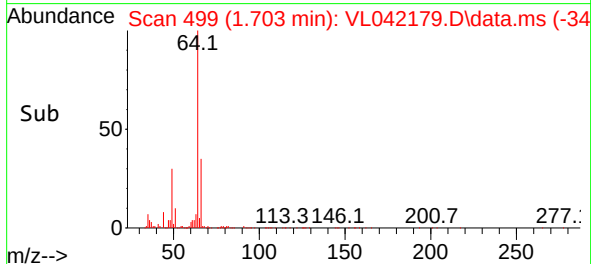
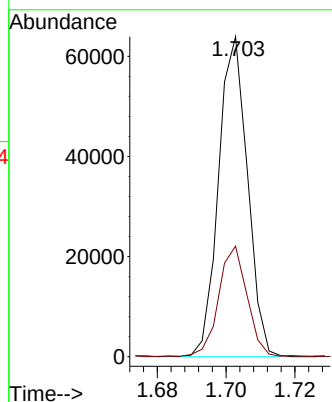
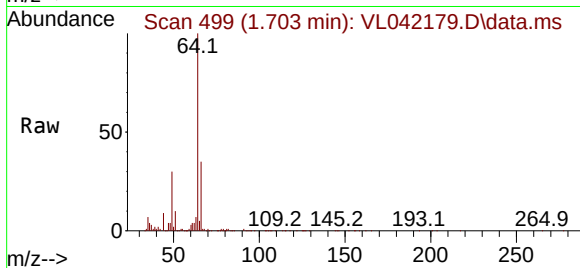




#7
Chloroethane
Concen: 8.856 ppbv
RT: 1.703 min Scan# 499
Delta R.T. -0.000 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

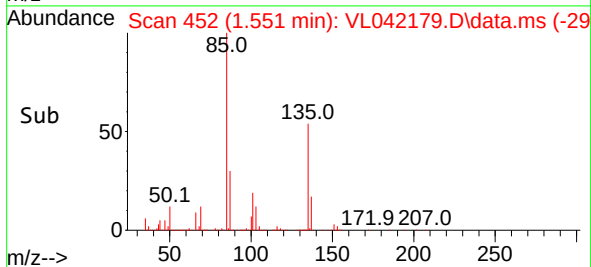
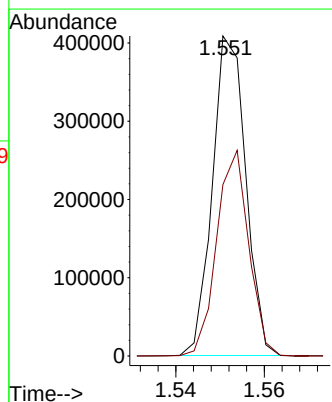
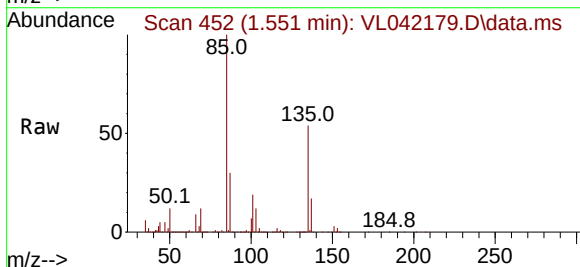
Instrument :
MSVOA_L
ClientSampleId :
ICVVL032725

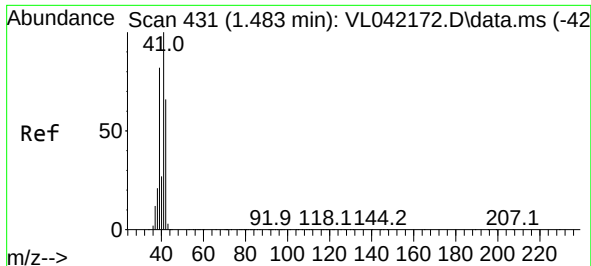
Tgt Ion: 64 Resp: 37400
Ion Ratio Lower Upper
64 100
66 34.5 25.2 37.8



#8
Dichlorotetrafluoroethane
Concen: 9.753 ppbv
RT: 1.551 min Scan# 452
Delta R.T. -0.000 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

Tgt Ion: 85 Resp: 213819
Ion Ratio Lower Upper
85 100
135 61.9 52.4 78.6





#9

Propene

Concen: 8.739 ppbv

RT: 1.483 min Scan# 41

Delta R.T. -0.000 min

Lab File: VL042179.D

Acq: 27 Mar 2025 12:23

Instrument :

MSVOA_L

ClientSampleId :

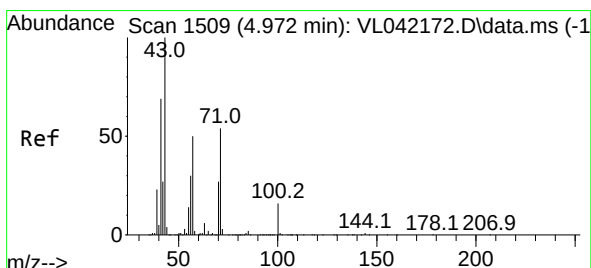
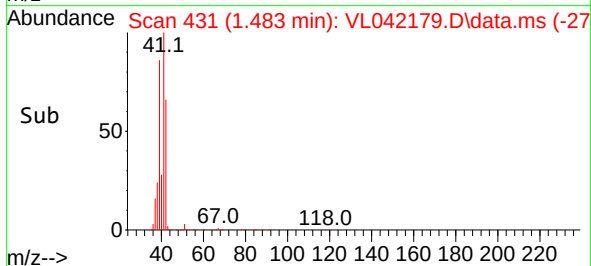
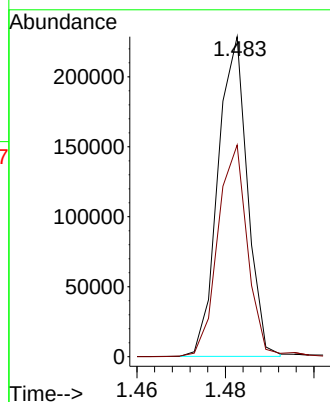
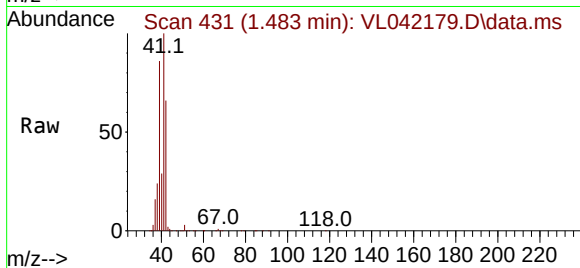
ICVVL032725

Tgt Ion: 41 Resp: 105338

Ion Ratio Lower Upper

41 100

42 68.1 55.4 83.2



#10

Heptane

Concen: 9.318 ppbv

RT: 4.972 min Scan# 1509

Delta R.T. -0.000 min

Lab File: VL042179.D

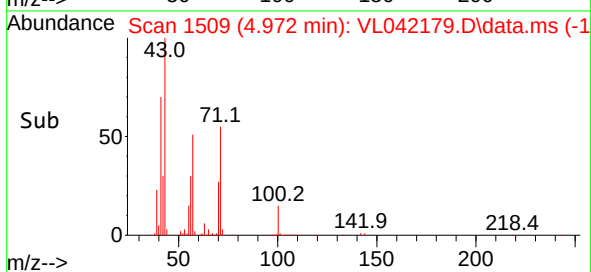
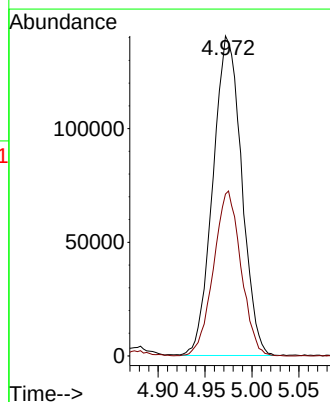
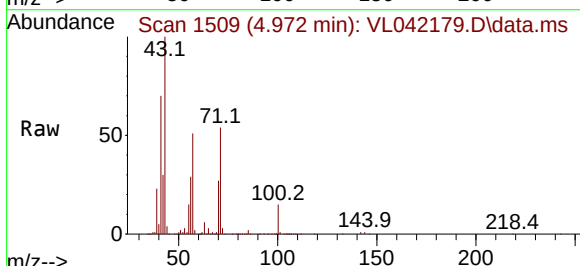
Acq: 27 Mar 2025 12:23

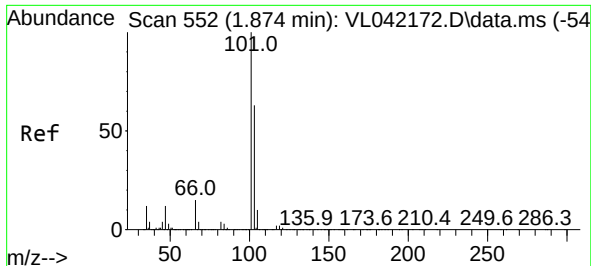
Tgt Ion: 43 Resp: 298768

Ion Ratio Lower Upper

43 100

57 49.5 39.4 59.2

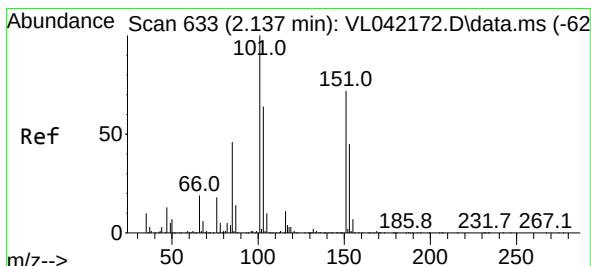
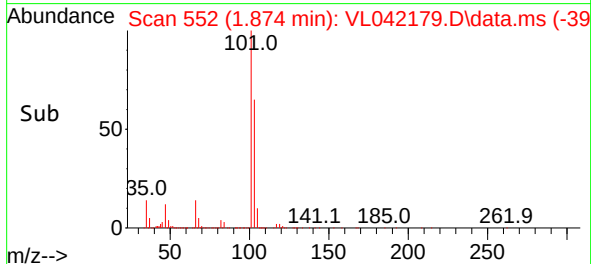
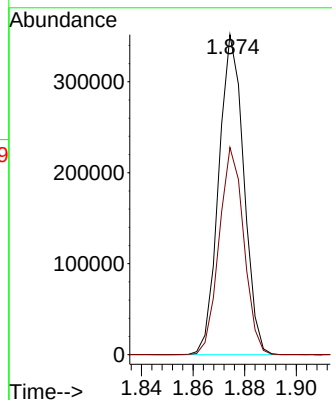
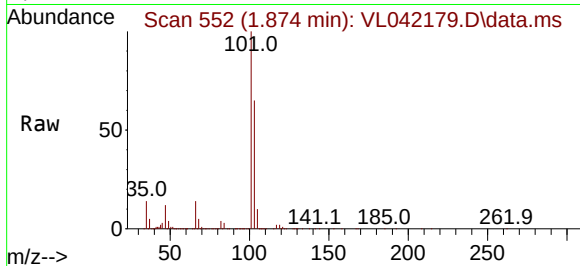




#11
 Trichlorofluoromethane
 Concen: 9.453 ppbv
 RT: 1.874 min Scan# 511
 Delta R.T. -0.000 min
 Lab File: VL042179.D
 Acq: 27 Mar 2025 12:23

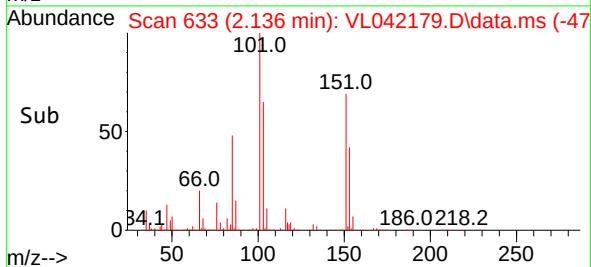
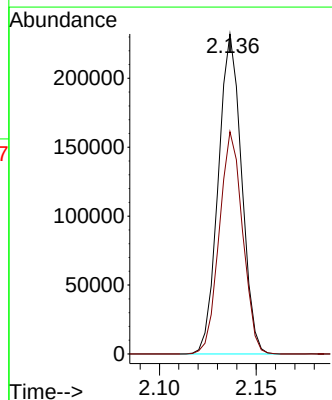
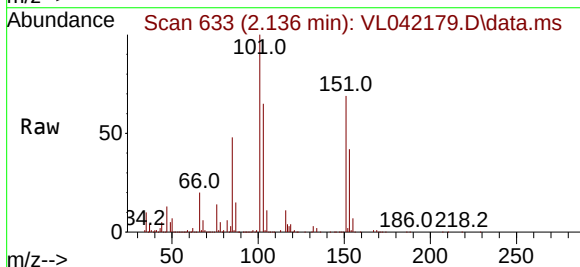
Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL032725

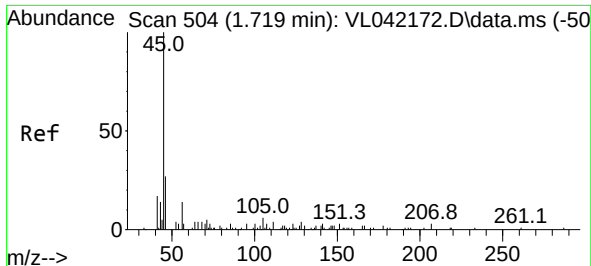
Tgt Ion:101 Resp: 236793
 Ion Ratio Lower Upper
 101 100
 103 64.7 50.2 75.2



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 9.421 ppbv
 RT: 2.136 min Scan# 633
 Delta R.T. -0.000 min
 Lab File: VL042179.D
 Acq: 27 Mar 2025 12:23

Tgt Ion:101 Resp: 193965
 Ion Ratio Lower Upper
 101 100
 151 69.6 57.1 85.7

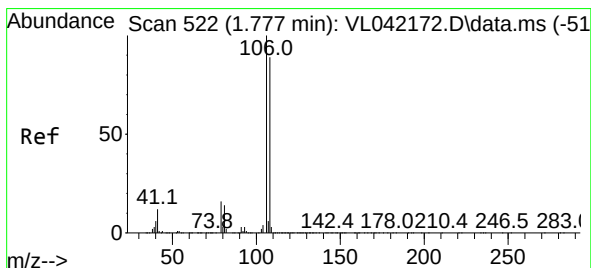
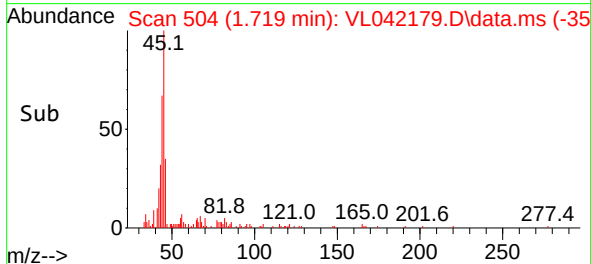
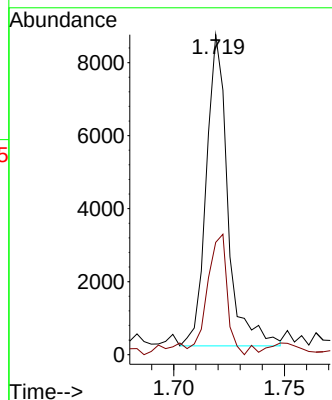
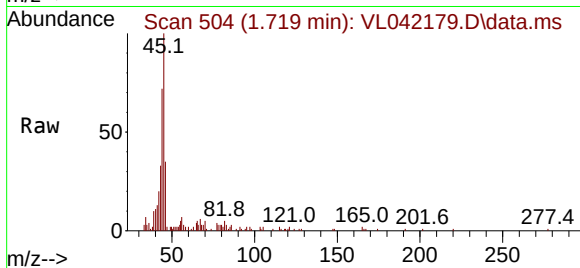




#13
Ethanol
Concen: 5.066 ppbv
RT: 1.719 min Scan# 504
Delta R.T. -0.000 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

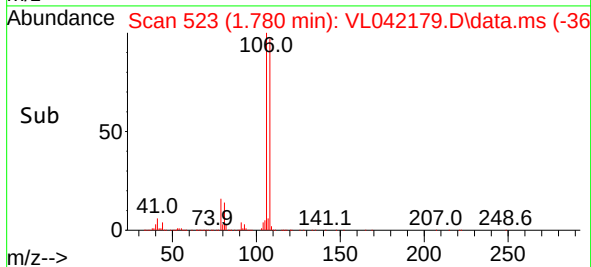
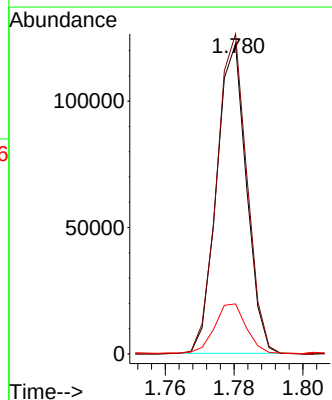
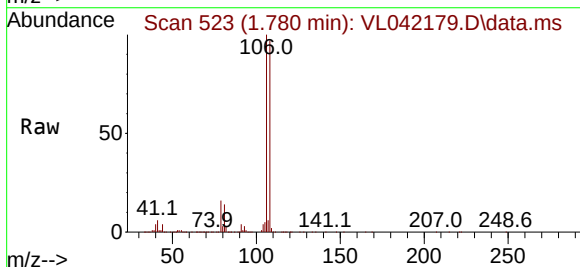
Instrument :
MSVOA_L
ClientSampleId :
ICVVL032725

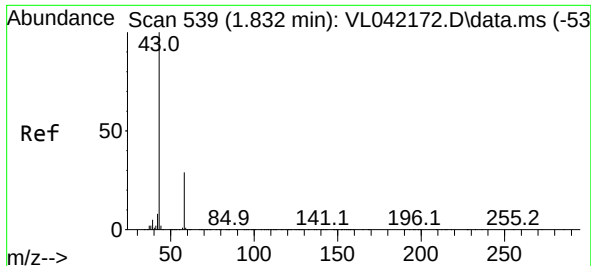
Tgt Ion: 45 Resp: 5773
Ion Ratio Lower Upper
45 100
46 48.5 20.2 80.8



#14
Bromoethene
Concen: 9.328 ppbv
RT: 1.780 min Scan# 523
Delta R.T. 0.003 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

Tgt Ion: 108 Resp: 73572
Ion Ratio Lower Upper
108 100
106 105.0 86.8 130.2
79 18.8 15.0 22.6

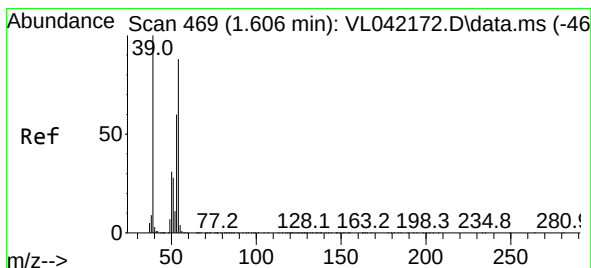
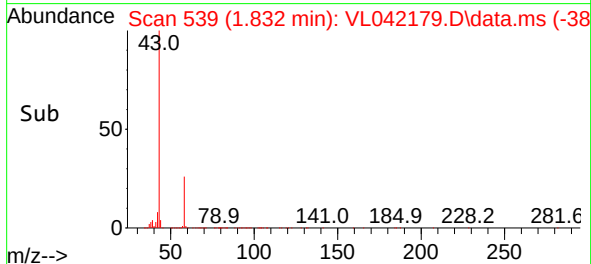
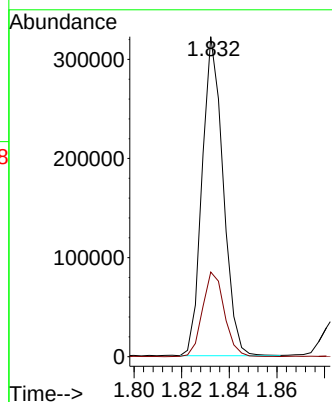
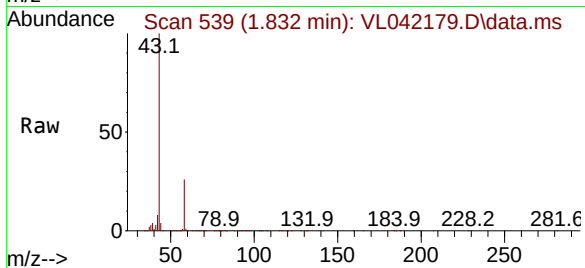




#15
Acetone
Concen: 8.132 ppbv
RT: 1.832 min Scan# 51
Delta R.T. -0.000 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

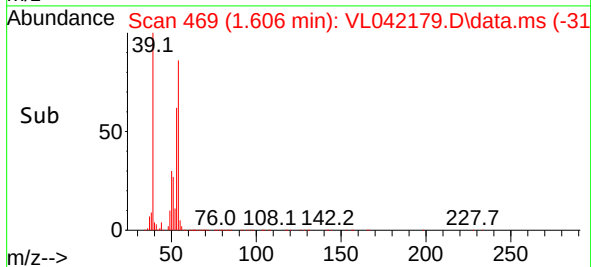
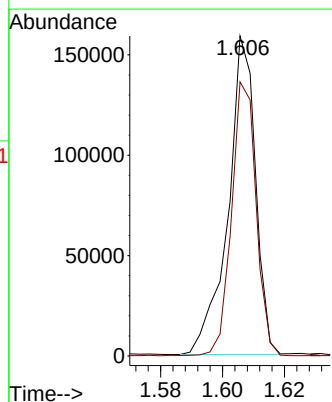
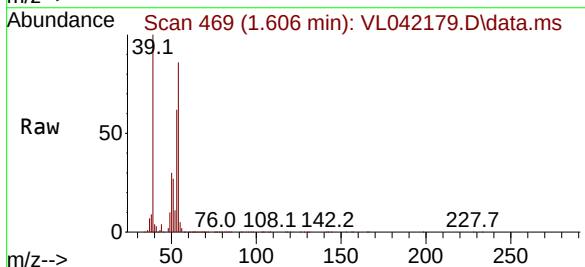
Instrument :
MSVOA_L
ClientSampleId :
ICVVL032725

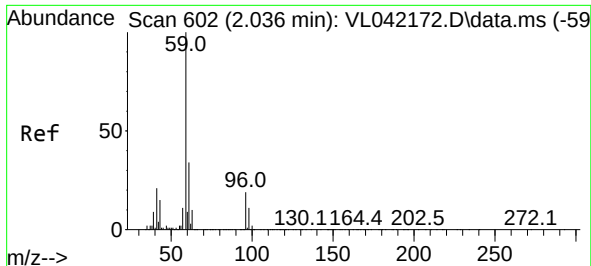
Tgt Ion: 43 Resp: 198300
Ion Ratio Lower Upper
43 100
58 27.7 23.2 34.8



#16
1,3-Butadiene
Concen: 8.216 ppbv
RT: 1.606 min Scan# 469
Delta R.T. -0.000 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

Tgt Ion: 39 Resp: 97840
Ion Ratio Lower Upper
39 100
54 76.9 60.7 91.1





#17

tert-Butyl alcohol

Concen: 9.094 ppbv

RT: 2.039 min Scan# 602

Delta R.T. 0.003 min

Lab File: VL042179.D

Acq: 27 Mar 2025 12:23

Instrument :

MSVOA_L

ClientSampleId :

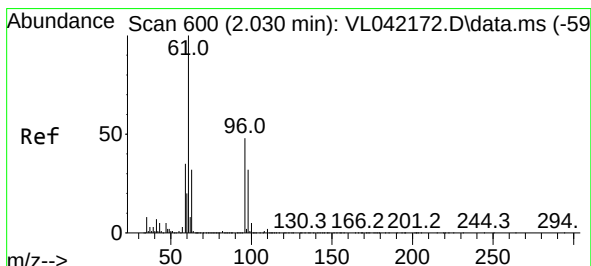
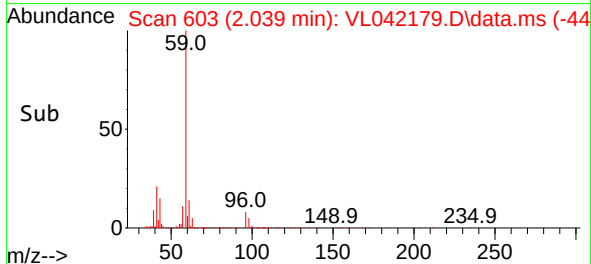
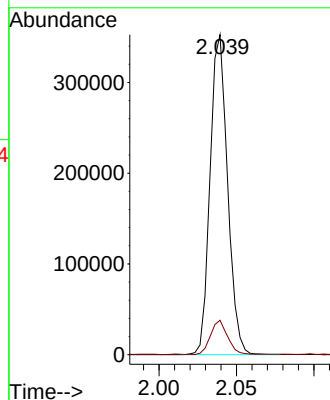
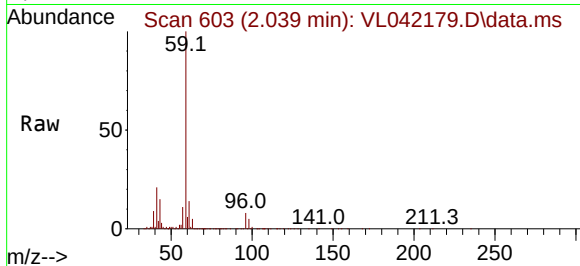
ICVVL032725

Tgt Ion: 59 Resp: 276195

Ion Ratio Lower Upper

59 100

57 10.6 8.9 13.3



#18

1,1-Dichloroethene

Concen: 9.053 ppbv

RT: 2.033 min Scan# 601

Delta R.T. 0.003 min

Lab File: VL042179.D

Acq: 27 Mar 2025 12:23

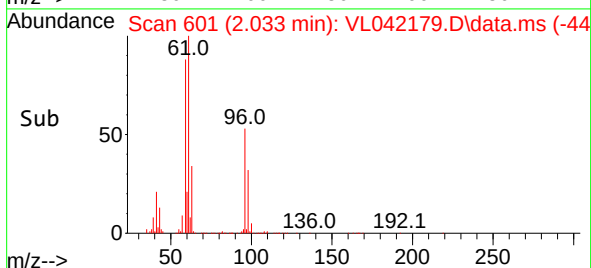
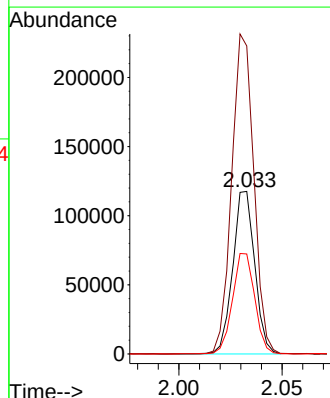
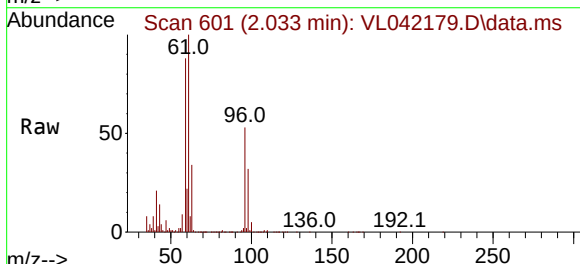
Tgt Ion: 96 Resp: 87137

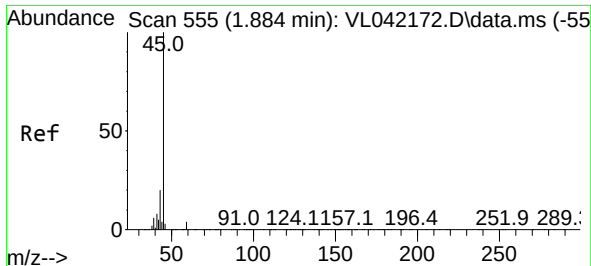
Ion Ratio Lower Upper

96 100

61 189.6 167.6 251.4

98 61.5 53.5 80.3

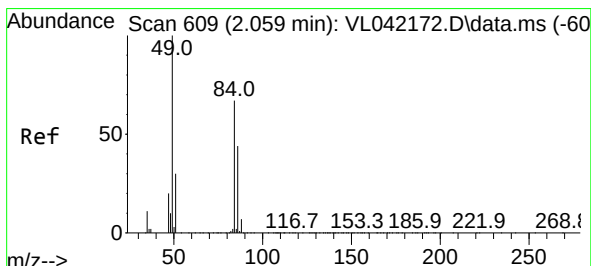
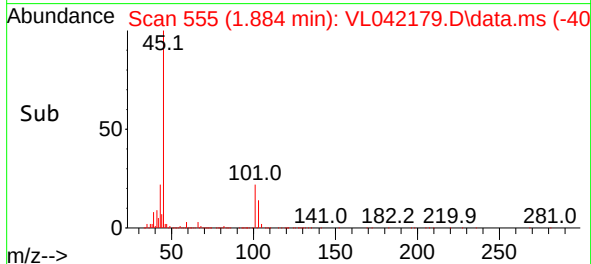
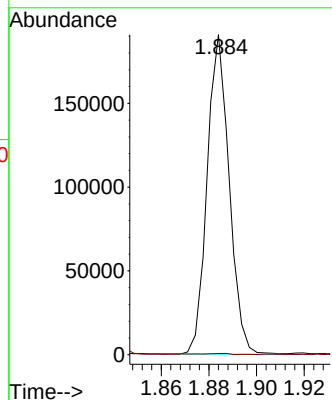
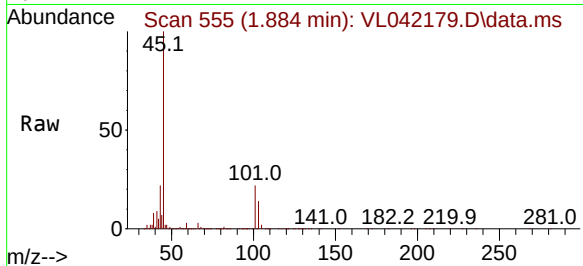




#19
Isopropyl Alcohol
Concen: 8.923 ppbv
RT: 1.884 min Scan# 511
Delta R.T. -0.000 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

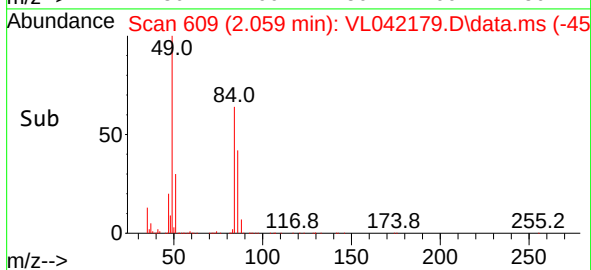
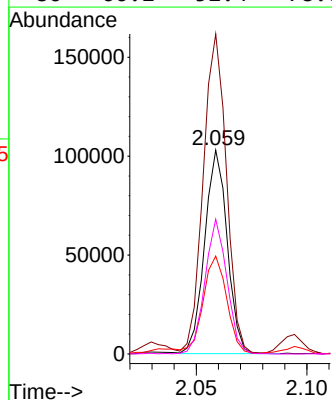
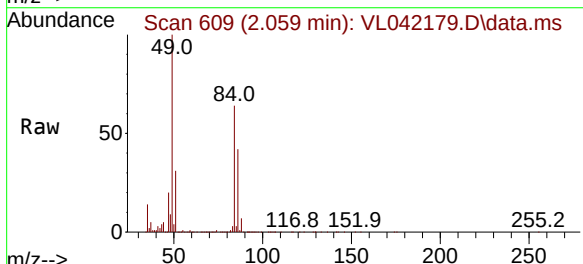
Instrument :
MSVOA_L
ClientSampleId :
ICVVL032725

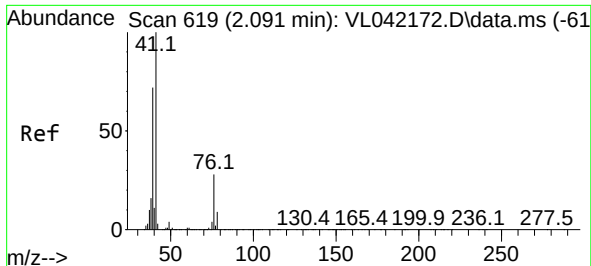
Tgt Ion: 45 Resp: 122768
Ion Ratio Lower Upper
45 100
58 44.9 36.9 55.3



#20
Methylene Chloride
Concen: 8.018 ppbv
RT: 2.059 min Scan# 609
Delta R.T. -0.000 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

Tgt Ion: 84 Resp: 72813
Ion Ratio Lower Upper
84 100
49 155.8 120.2 180.4
51 46.4 37.4 56.0
86 66.2 52.4 78.6

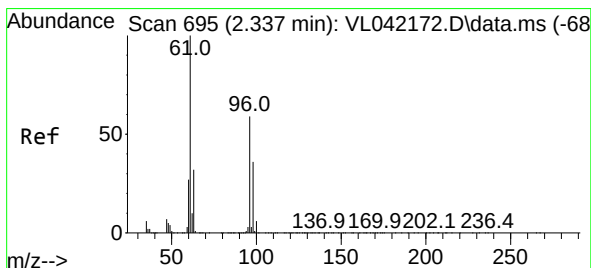
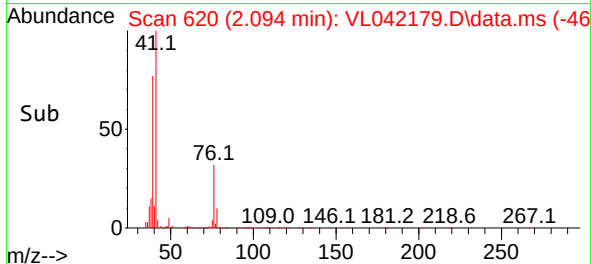
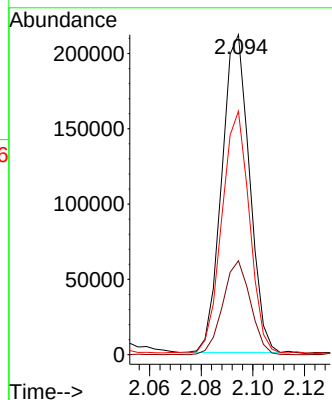
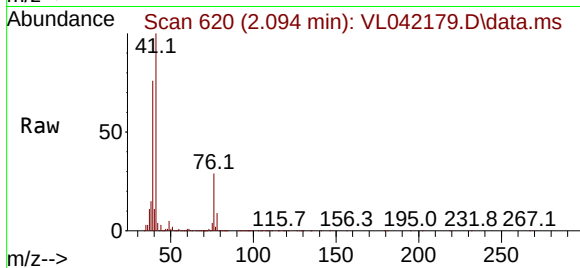




#21
 Allyl Chloride
 Concen: 9.154 ppbv
 RT: 2.094 min Scan# 619
 Delta R.T. 0.003 min
 Lab File: VL042179.D
 Acq: 27 Mar 2025 12:23

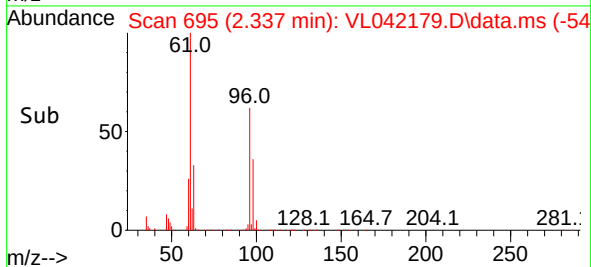
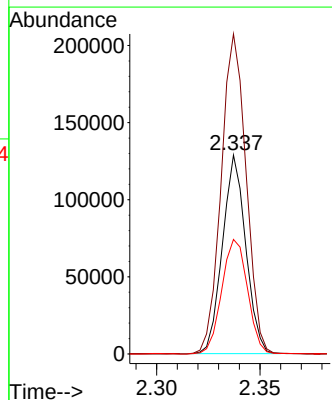
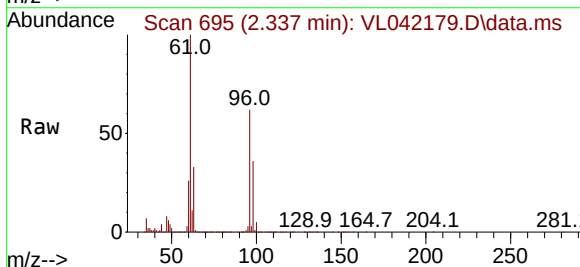
Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL032725

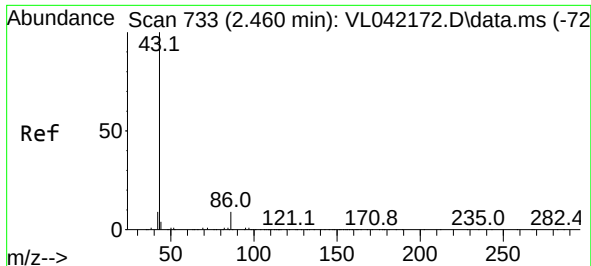
Tgt Ion: 41 Resp: 157418
 Ion Ratio Lower Upper
 41 100
 76 29.6 24.1 36.1
 39 75.5 61.1 91.7



#22
 trans-1,2-Dichloroethene
 Concen: 9.092 ppbv
 RT: 2.337 min Scan# 695
 Delta R.T. -0.000 min
 Lab File: VL042179.D
 Acq: 27 Mar 2025 12:23

Tgt Ion: 96 Resp: 101141
 Ion Ratio Lower Upper
 96 100
 61 161.2 136.6 204.8
 98 57.7 49.4 74.2

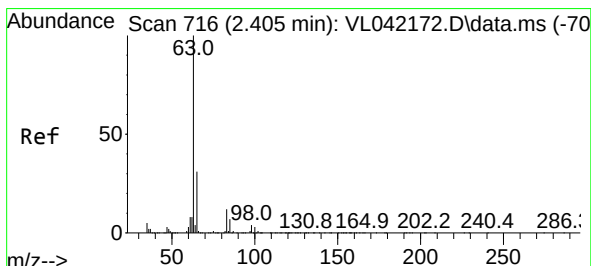
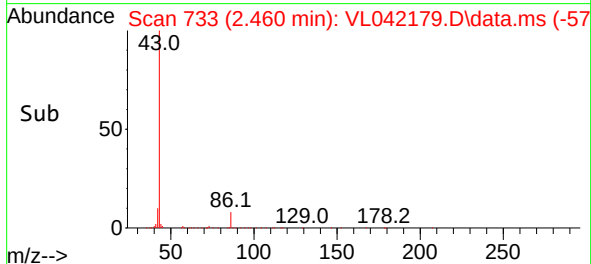
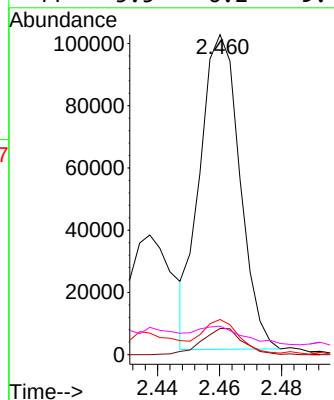
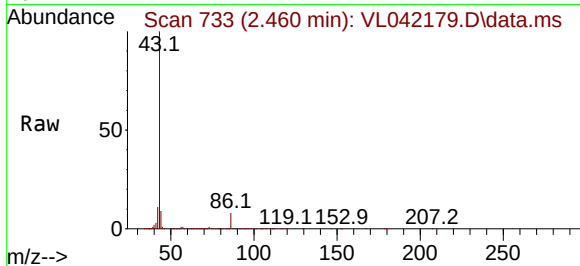




#23
 Vinyl Acetate
 Concen: 8.553 ppbv
 RT: 2.460 min Scan# 716
 Delta R.T. -0.000 min
 Lab File: VL042179.D
 Acq: 27 Mar 2025 12:23

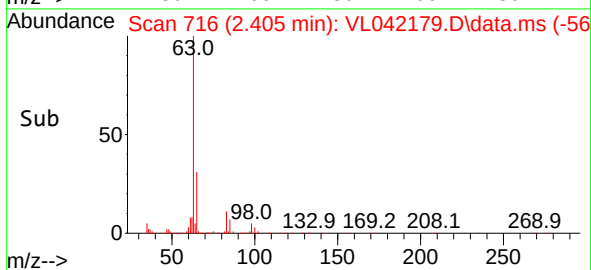
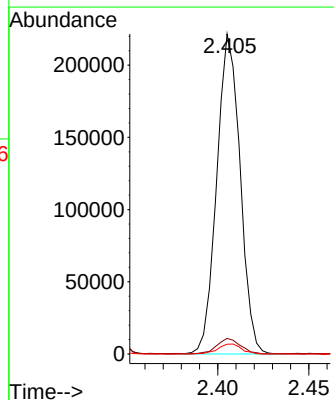
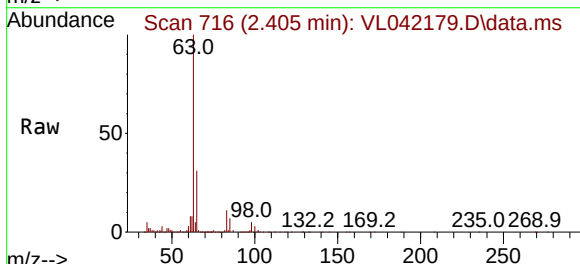
Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL032725

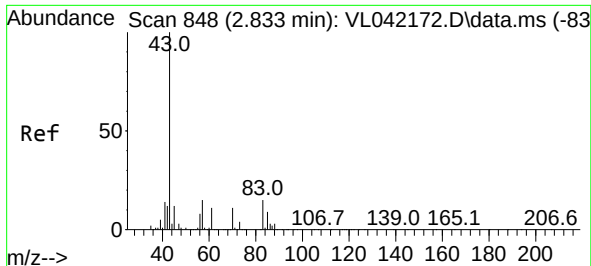
Tgt Ion:	43	Resp:	90260
Ion	Ratio	Lower	Upper
43	100		
86	8.3	5.5	8.3#
42	10.7	8.6	13.0
44	5.5	6.2	9.4#



#24
 1,1-Dichloroethane
 Concen: 9.600 ppbv
 RT: 2.405 min Scan# 716
 Delta R.T. -0.000 min
 Lab File: VL042179.D
 Acq: 27 Mar 2025 12:23

Tgt Ion:	63	Resp:	197968
Ion	Ratio	Lower	Upper
63	100		
98	4.8	2.3	6.8
100	3.0	1.6	4.7



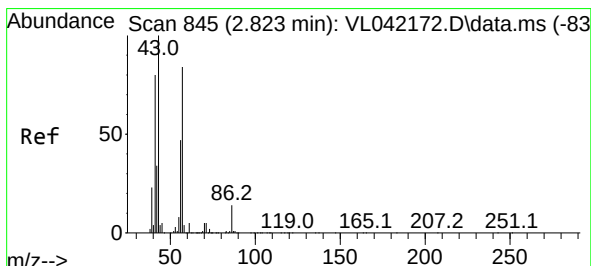
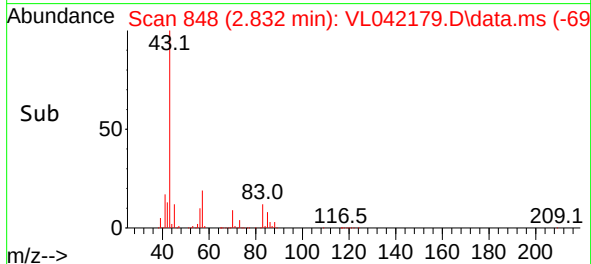
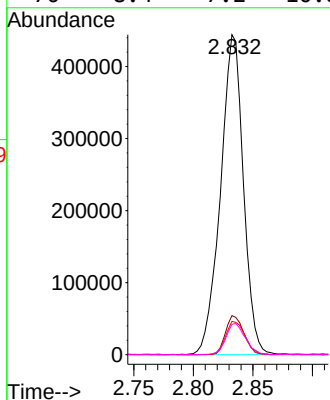
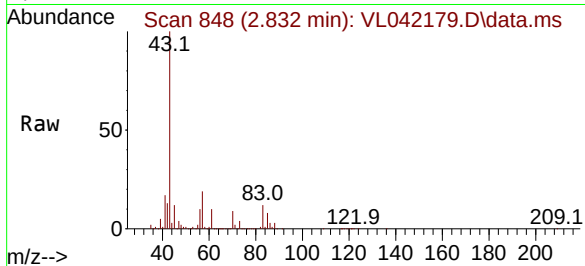


#25
Ethyl Acetate
Concen: 9.364 ppbv
RT: 2.832 min Scan# 848
Delta R.T. -0.000 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

Instrument :
MSVOA_L
ClientSampleId :
ICVVL032725

Tgt Ion: 43 Resp: 592585

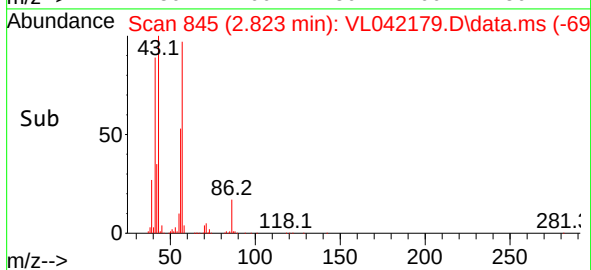
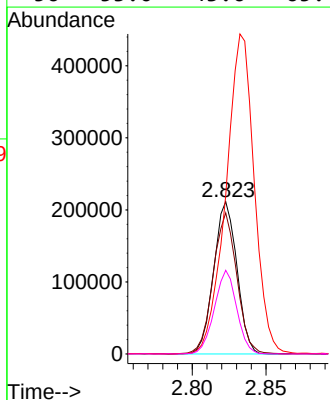
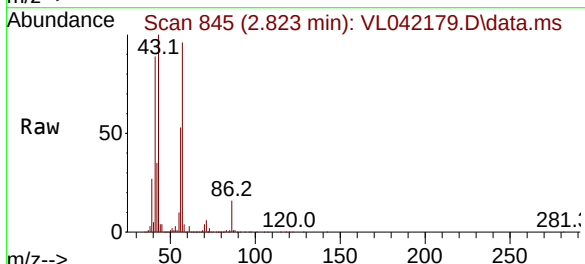
Ion	Ratio	Lower	Upper
43	100		
45	9.9	8.2	12.2
61	8.7	7.3	10.9
70	8.4	7.2	10.8

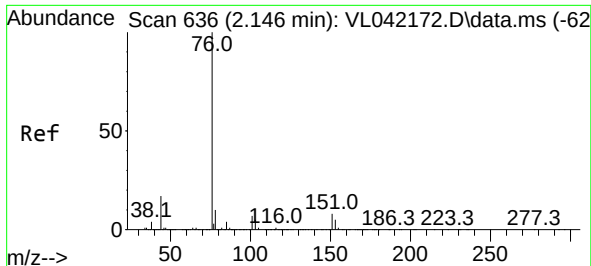


#26
Hexane
Concen: 9.455 ppbv
RT: 2.823 min Scan# 845
Delta R.T. -0.000 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

Tgt Ion: 57 Resp: 231125

Ion	Ratio	Lower	Upper
57	100		
41	95.2	76.6	114.8
43	256.8	207.8	311.8
56	53.0	43.6	65.4

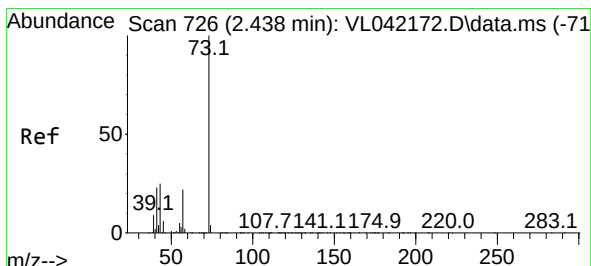
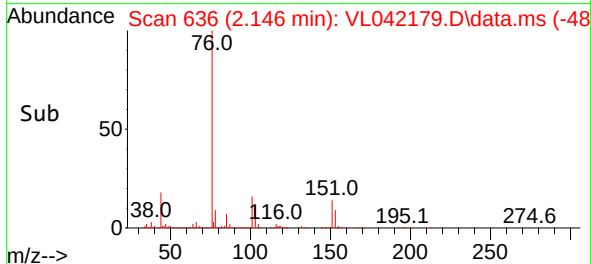
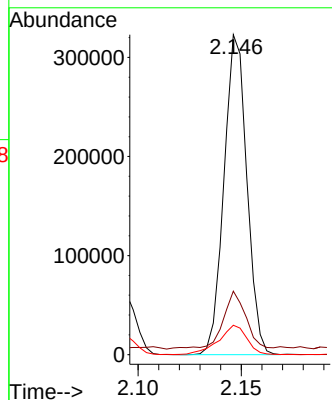
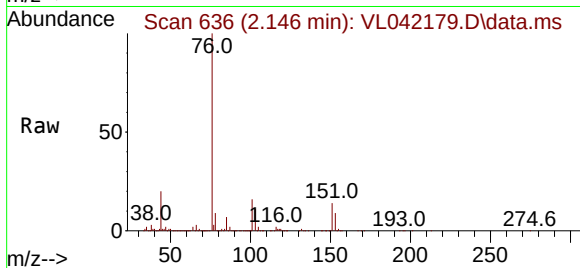




#27
Carbon Disulfide
Concen: 9.493 ppbv
RT: 2.146 min Scan# 611
Delta R.T. -0.000 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

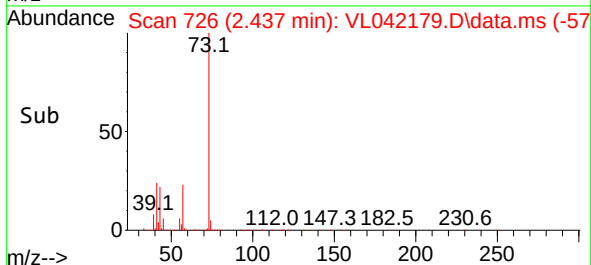
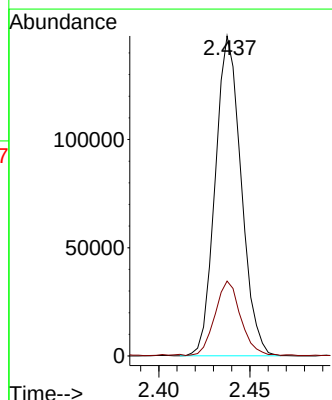
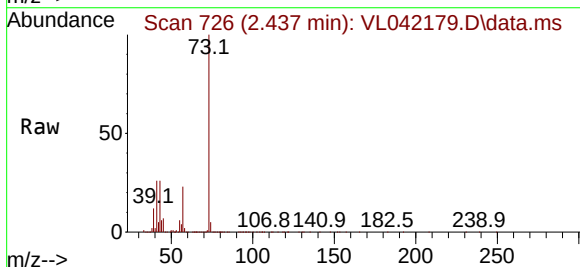
Instrument :
MSVOA_1
ClientSampleId :
ICVVL032725

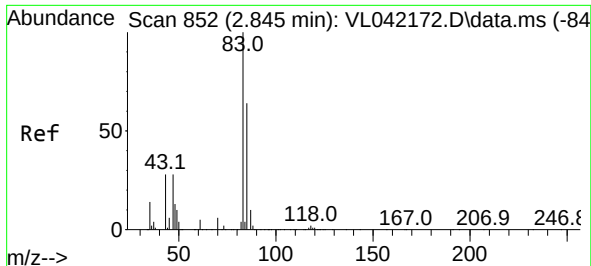
Tgt Ion: 76 Resp: 248834
Ion Ratio Lower Upper
76 100
44 20.1 14.7 22.1
78 11.3 9.3 13.9



#28
Methyl tert-Butyl Ether
Concen: 9.624 ppbv
RT: 2.437 min Scan# 726
Delta R.T. -0.000 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

Tgt Ion: 73 Resp: 146470
Ion Ratio Lower Upper
73 100
57 23.3 20.5 30.7





#29

Chloroform

Concen: 9.619 ppbv

RT: 2.845 min Scan# 852

Delta R.T. -0.000 min

Lab File: VL042179.D

Acq: 27 Mar 2025 12:23

Instrument :

MSVOA_L

ClientSampleId :

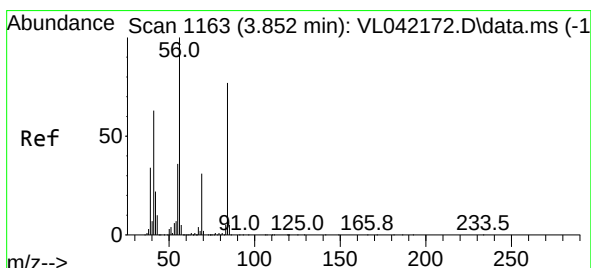
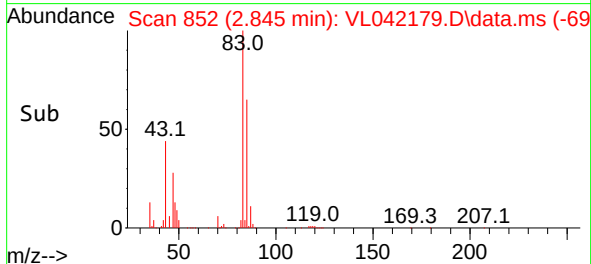
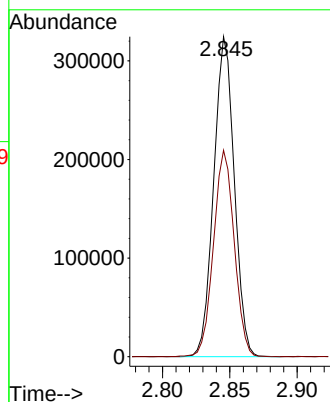
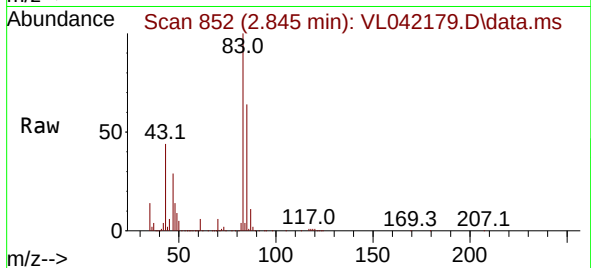
ICVVL032725

Tgt Ion: 83 Resp: 344106

Ion Ratio Lower Upper

83 100

85 64.5 51.4 77.2



#30

Cyclohexane

Concen: 9.323 ppbv

RT: 3.852 min Scan# 1163

Delta R.T. -0.000 min

Lab File: VL042179.D

Acq: 27 Mar 2025 12:23

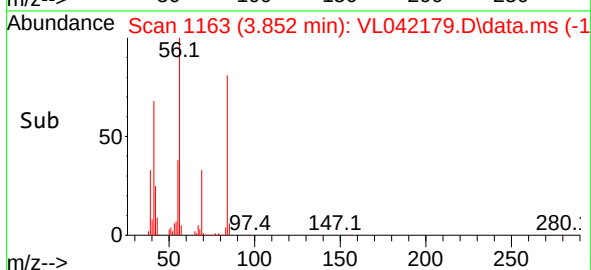
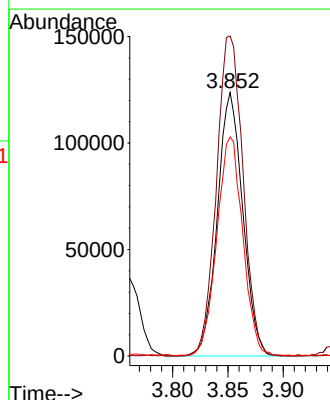
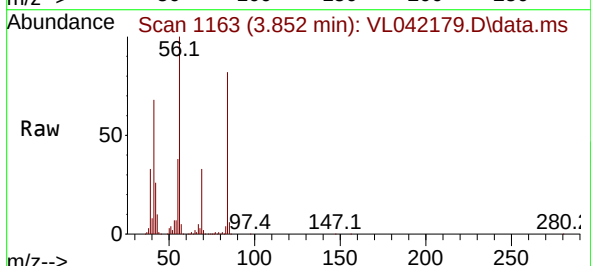
Tgt Ion: 84 Resp: 197897

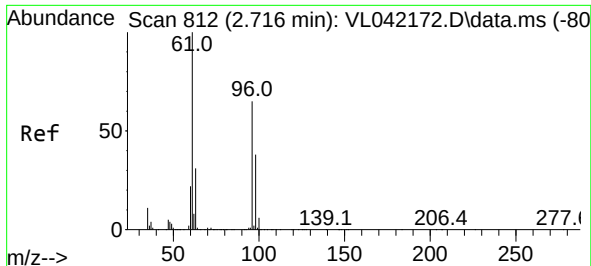
Ion Ratio Lower Upper

84 100

56 126.8 102.8 154.2

41 84.6 66.5 99.7

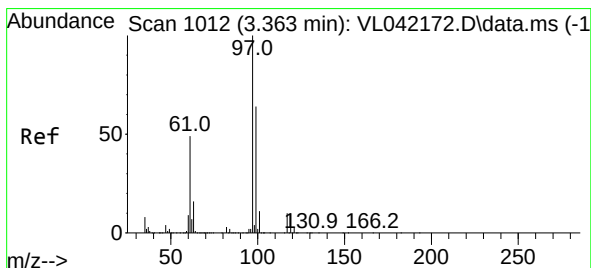
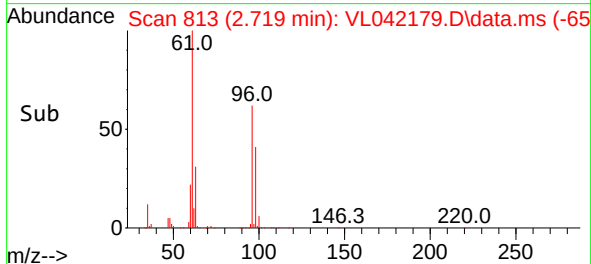
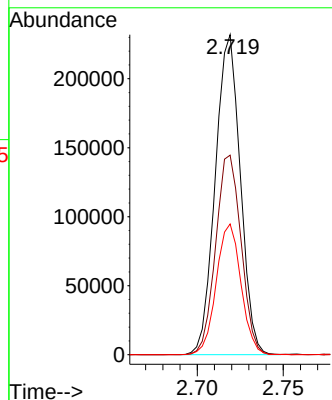
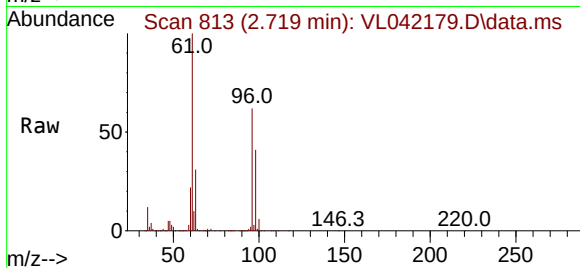




#31
 cis-1,2-Dichloroethene
 Concen: 9.449 ppbv
 RT: 2.719 min Scan# 812
 Delta R.T. 0.003 min
 Lab File: VL042179.D
 Acq: 27 Mar 2025 12:23

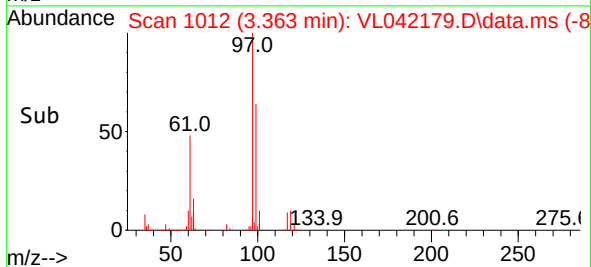
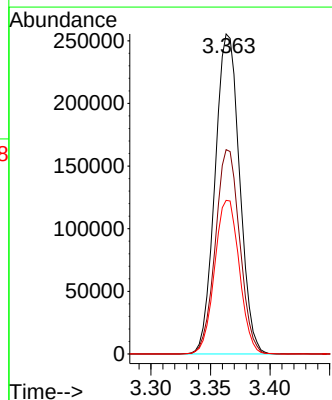
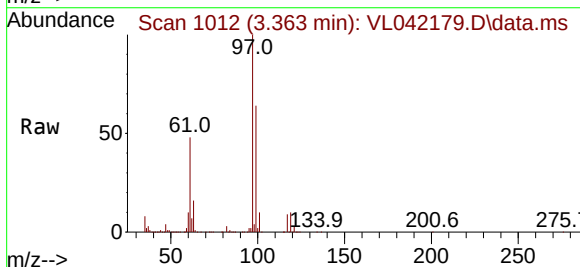
Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL032725

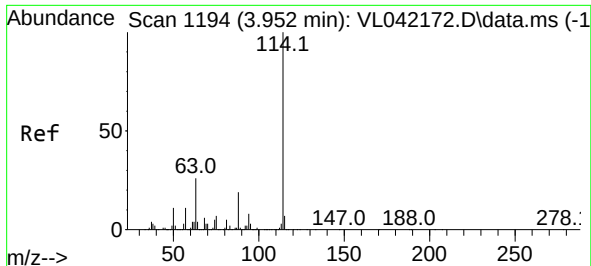
Tgt Ion: 61 Resp: 234487
 Ion Ratio Lower Upper
 61 100
 96 62.3 51.8 77.8
 98 40.9 30.6 46.0



#32
 1,1,1-Trichloroethane
 Concen: 8.921 ppbv
 RT: 3.363 min Scan# 1012
 Delta R.T. -0.000 min
 Lab File: VL042179.D
 Acq: 27 Mar 2025 12:23

Tgt Ion: 97 Resp: 365364
 Ion Ratio Lower Upper
 97 100
 99 63.4 51.5 77.3
 61 48.4 38.7 58.1





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.952 min Scan# 1194

Delta R.T. -0.000 min

Lab File: VL042179.D

Acq: 27 Mar 2025 12:23

Instrument :

MSVOA_L

ClientSampleId :

ICVVL032725

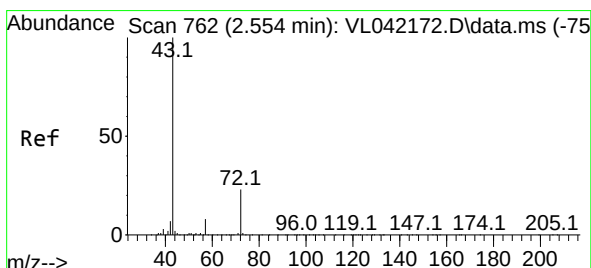
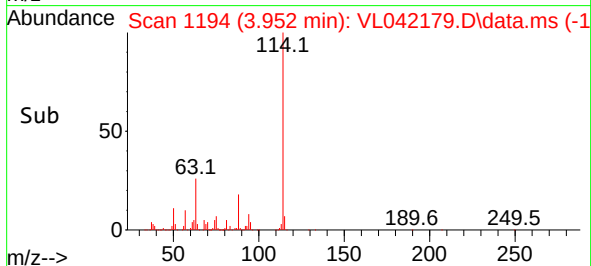
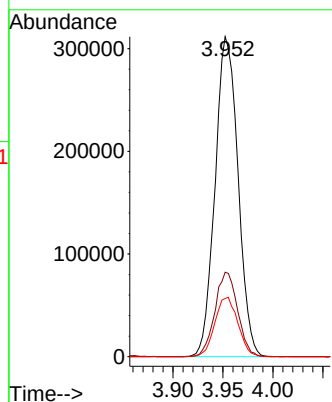
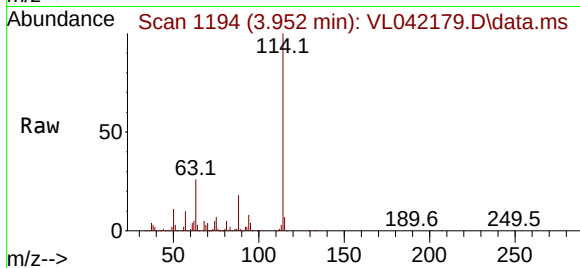
Tgt Ion:114 Resp: 498105

Ion Ratio Lower Upper

114 100

63 26.1 20.7 31.1

88 18.7 15.0 22.4



#34

2-Butanone

Concen: 9.171 ppbv

RT: 2.554 min Scan# 762

Delta R.T. -0.000 min

Lab File: VL042179.D

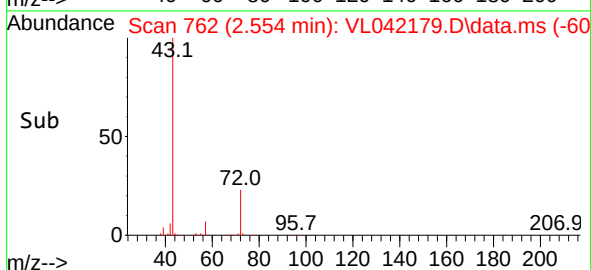
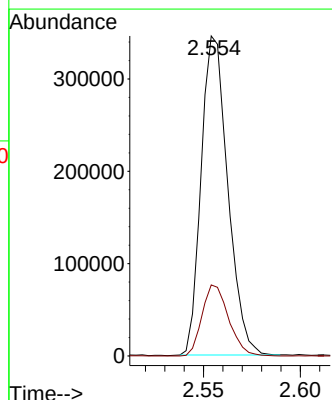
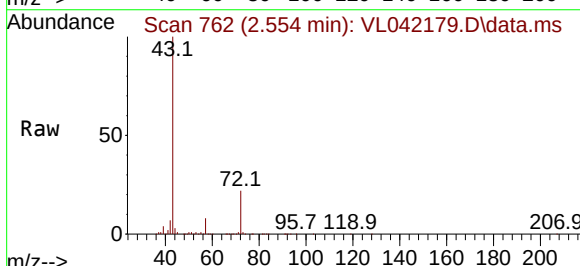
Acq: 27 Mar 2025 12:23

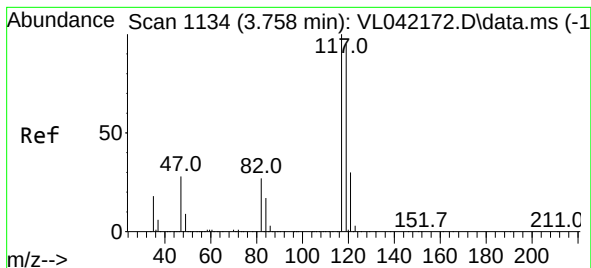
Tgt Ion: 43 Resp: 331236

Ion Ratio Lower Upper

43 100

72 22.2 18.2 27.2





#35

Carbon Tetrachloride

Concen: 9.339 ppbv

RT: 3.758 min Scan# 1134

Delta R.T. -0.000 min

Lab File: VL042179.D

Acq: 27 Mar 2025 12:23

Instrument :

MSVOA_L

ClientSampleId :

ICVVL032725

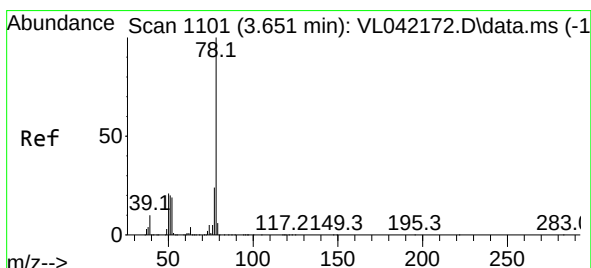
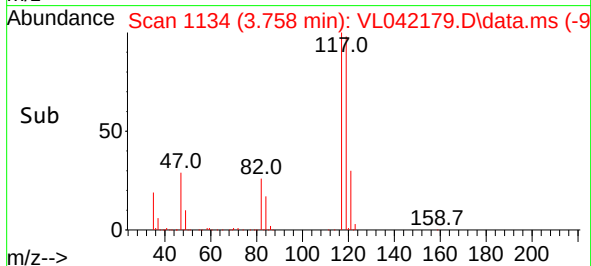
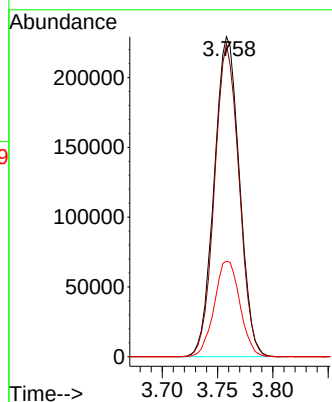
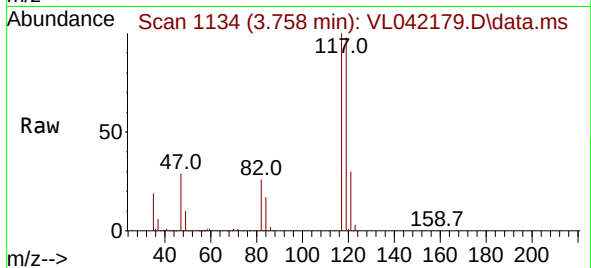
Tgt Ion:117 Resp: 363392

Ion Ratio Lower Upper

117 100

119 97.7 76.2 114.2

121 29.9 24.2 36.4



#36

Benzene

Concen: 9.341 ppbv

RT: 3.651 min Scan# 1101

Delta R.T. -0.000 min

Lab File: VL042179.D

Acq: 27 Mar 2025 12:23

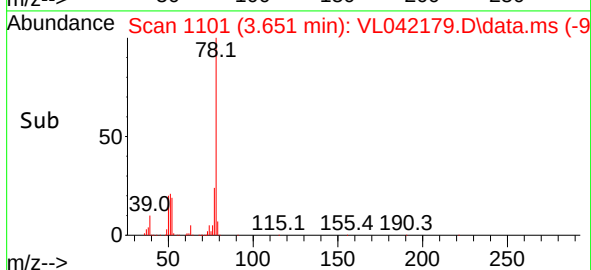
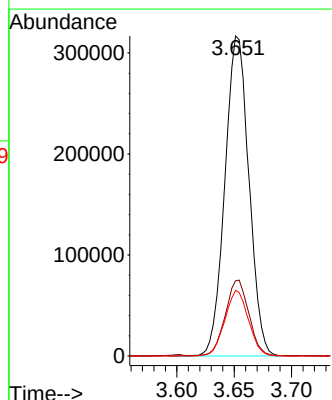
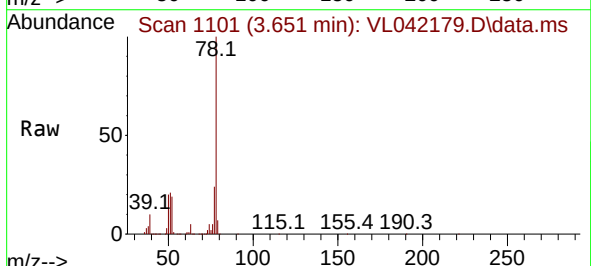
Tgt Ion: 78 Resp: 461261

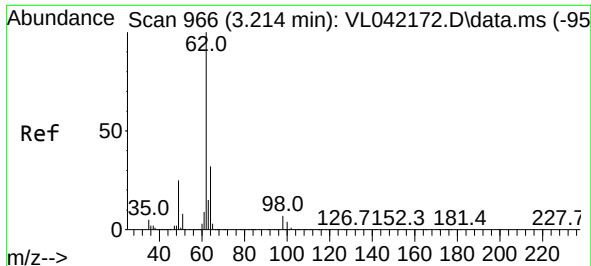
Ion Ratio Lower Upper

78 100

77 23.5 19.1 28.7

50 20.4 16.6 24.8

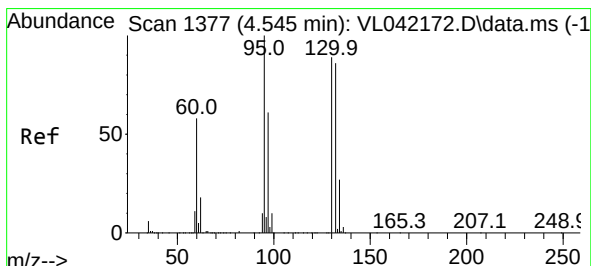
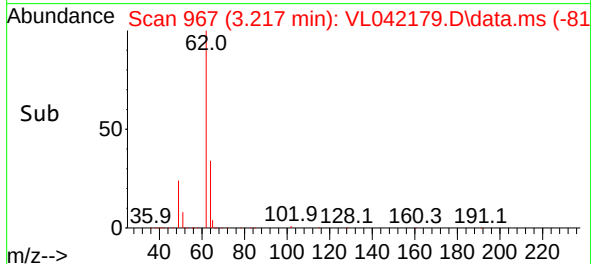
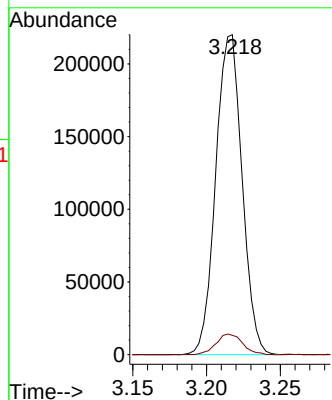
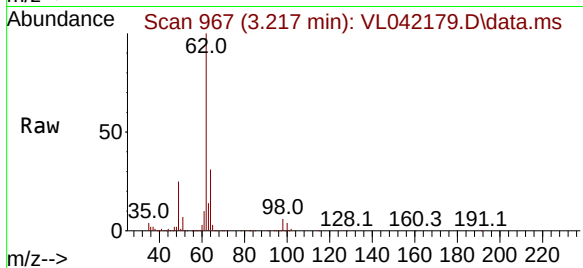




#37
1,2-Dichloroethane
Concen: 9.676 ppbv
RT: 3.217 min Scan# 966
Delta R.T. 0.003 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

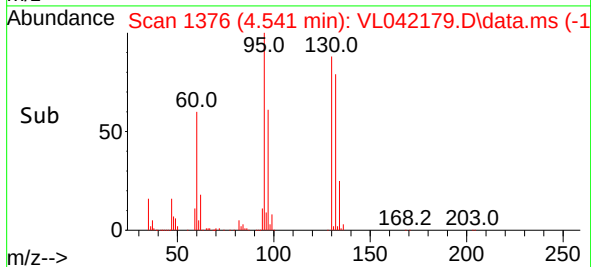
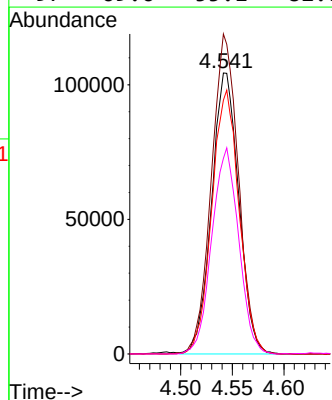
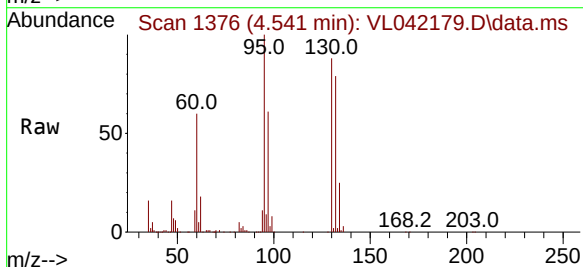
Instrument :
MSVOA_1
ClientSampleId :
ICVVL032725

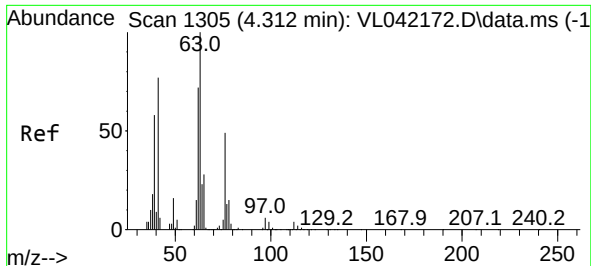
Tgt Ion: 62 Resp: 273559
Ion Ratio Lower Upper
62 100
98 6.6 5.4 8.2



#38
Trichloroethene
Concen: 9.306 ppbv
RT: 4.541 min Scan# 1376
Delta R.T. -0.003 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

Tgt Ion:130 Resp: 191746
Ion Ratio Lower Upper
130 100
95 113.9 89.8 134.8
132 90.3 77.4 116.2
97 69.6 55.1 82.7





#39

1,2-Dichloropropane

Concen: 9.500 ppbv

RT: 4.311 min Scan# 1

Delta R.T. -0.000 min

Lab File: VL042179.D

Acq: 27 Mar 2025 12:23

Instrument :

MSVOA_L

ClientSampleId :

ICVVL032725

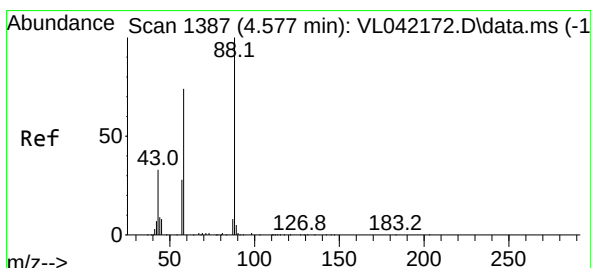
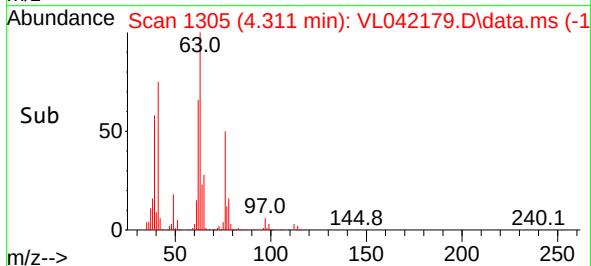
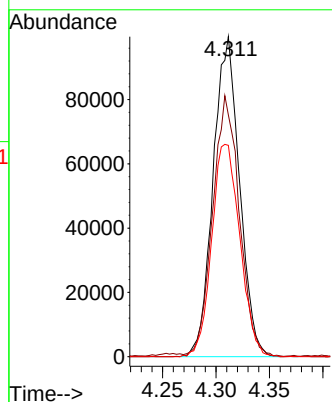
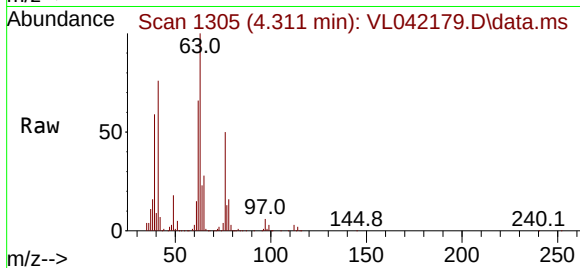
Tgt Ion: 63 Resp: 170839

Ion Ratio Lower Upper

63 100

41 75.3 61.7 92.5

62 66.0 57.6 86.4



#40

1,4-Dioxane

Concen: 8.443 ppbv

RT: 4.577 min Scan# 1387

Delta R.T. -0.000 min

Lab File: VL042179.D

Acq: 27 Mar 2025 12:23

Tgt Ion: 88 Resp: 80592

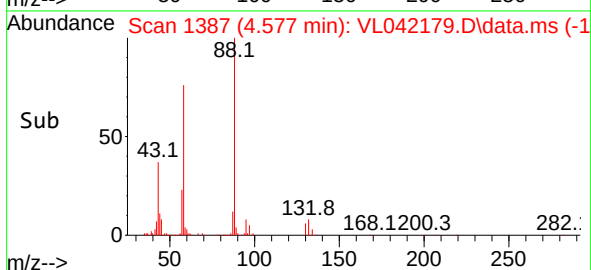
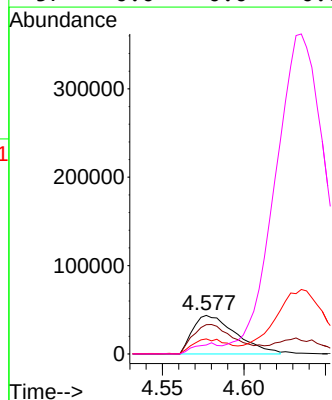
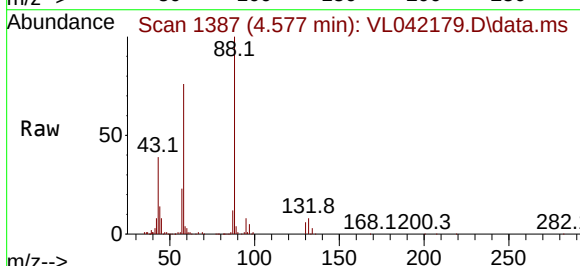
Ion Ratio Lower Upper

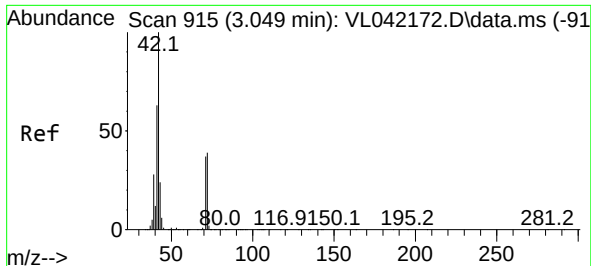
88 100

58 76.2 62.7 94.1

43 31.4 23.0 34.4

57 0.0 0.0 0.0

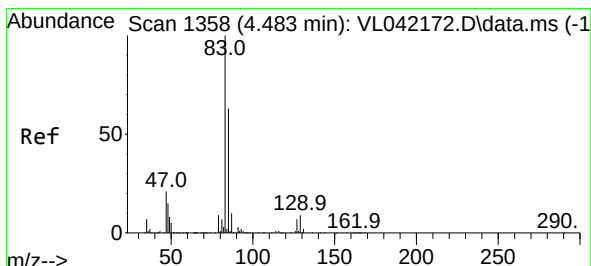
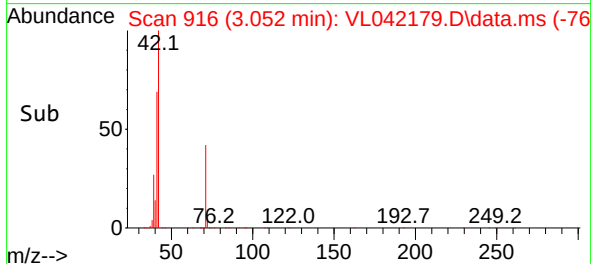
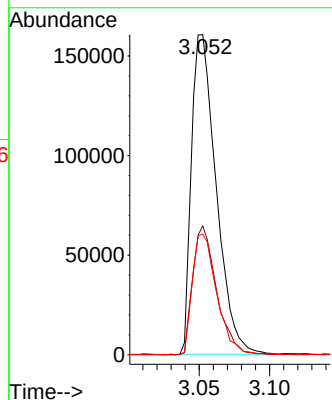
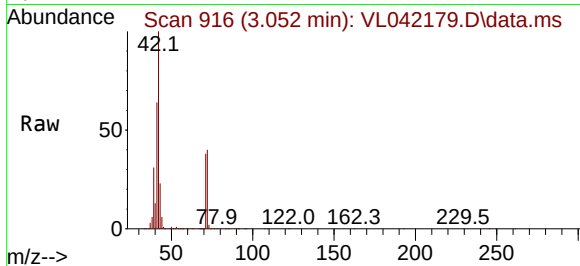




#41
Tetrahydrofuran
Concen: 9.431 ppbv
RT: 3.052 min Scan# 915
Delta R.T. 0.003 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

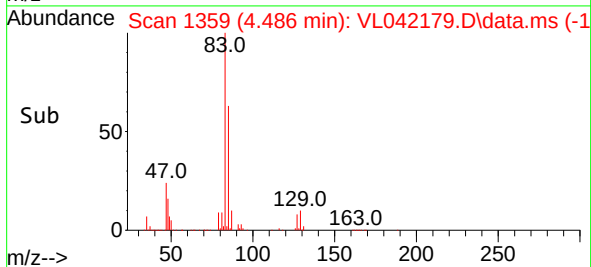
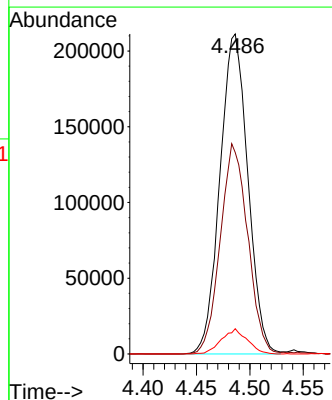
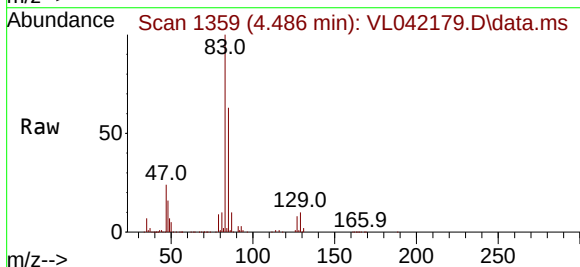
Instrument :
MSVOA_L
ClientSampleId :
ICVVL032725

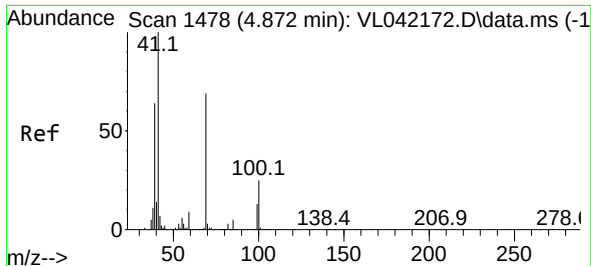
Tgt Ion: 42 Resp: 196163
Ion Ratio Lower Upper
42 100
72 38.9 31.4 47.0
71 37.2 30.2 45.4



#42
Bromodichloromethane
Concen: 9.853 ppbv
RT: 4.486 min Scan# 1359
Delta R.T. 0.003 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

Tgt Ion: 83 Resp: 384006
Ion Ratio Lower Upper
83 100
85 63.0 50.5 75.7
127 7.9 5.9 8.9





#43

Methyl Methacrylate

Concen: 9.344 ppbv

RT: 4.878 min Scan# 1478

Delta R.T. 0.006 min

Lab File: VL042179.D

Acq: 27 Mar 2025 12:23

Instrument :

MSVOA_L

ClientSampleId :

ICVVL032725

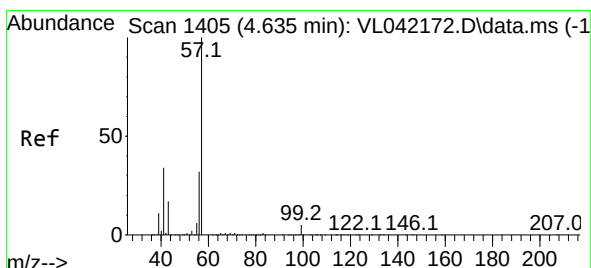
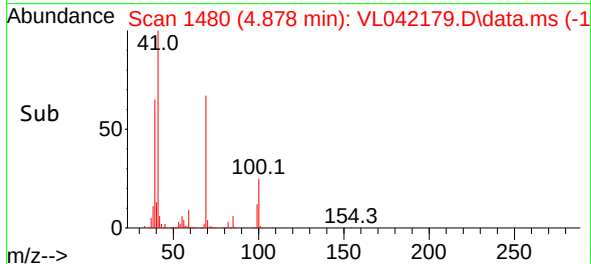
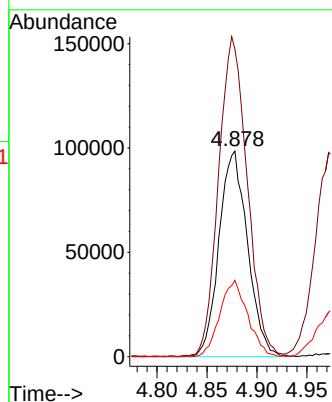
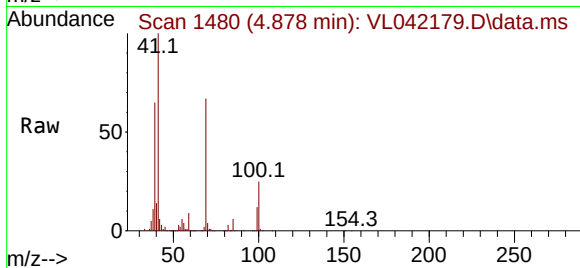
Tgt Ion: 69 Resp: 195339

Ion Ratio Lower Upper

69 100

41 156.4 123.8 185.6

100 36.4 28.4 42.6



#44

2,2,4-Trimethylpentane

Concen: 9.436 ppbv

RT: 4.635 min Scan# 1405

Delta R.T. -0.000 min

Lab File: VL042179.D

Acq: 27 Mar 2025 12:23

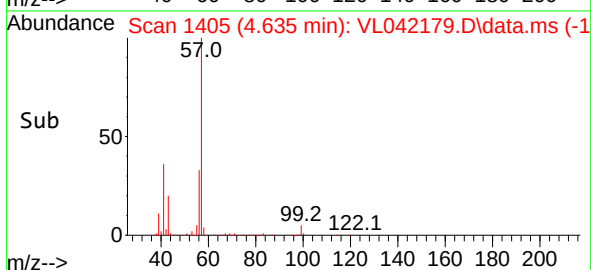
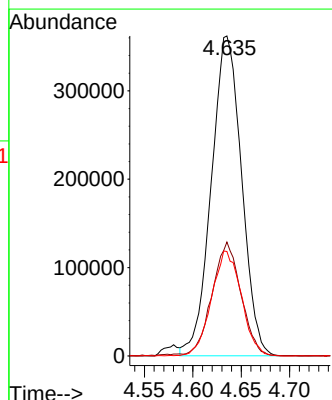
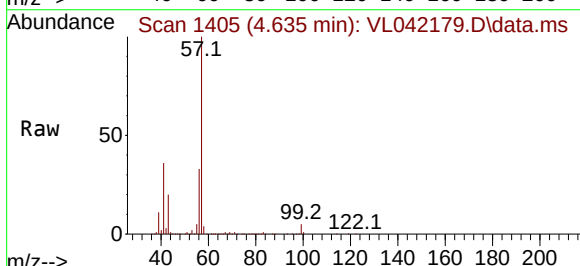
Tgt Ion: 57 Resp: 787400

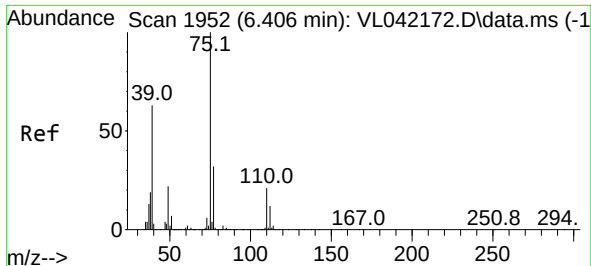
Ion Ratio Lower Upper

57 100

41 34.3 26.8 40.2

56 32.5 25.6 38.4





#45

t-1,3-Dichloropropene

Concen: 9.467 ppbv

RT: 6.409 min Scan# 1952

Delta R.T. 0.003 min

Lab File: VL042179.D

Acq: 27 Mar 2025 12:23

Instrument :

MSVOA_L

ClientSampleId :

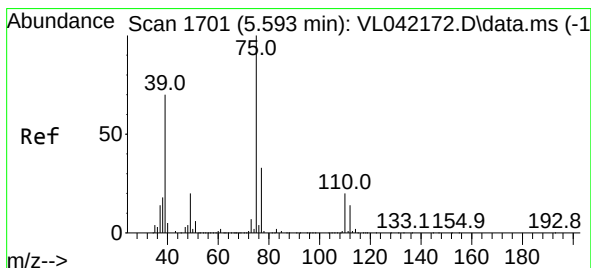
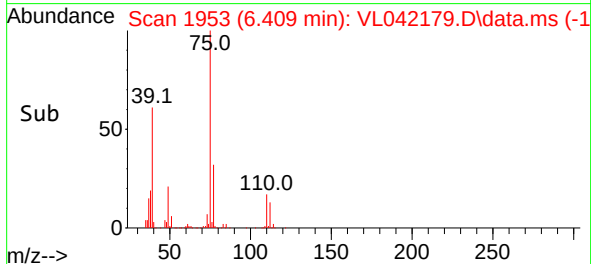
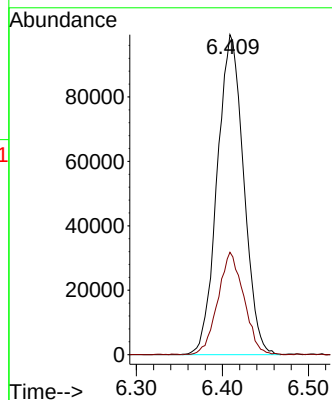
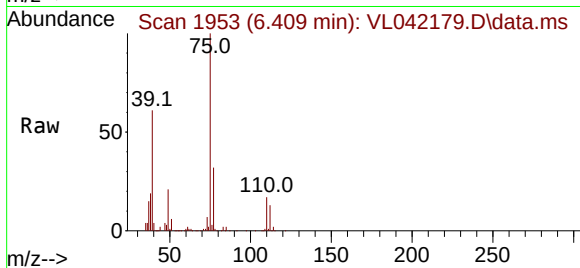
ICVVL032725

Tgt Ion: 75 Resp: 212335

Ion Ratio Lower Upper

75 100

77 32.0 26.0 39.0



#46

cis-1,3-Dichloropropene

Concen: 9.643 ppbv

RT: 5.593 min Scan# 1701

Delta R.T. -0.000 min

Lab File: VL042179.D

Acq: 27 Mar 2025 12:23

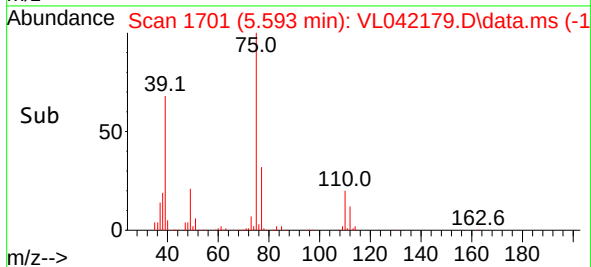
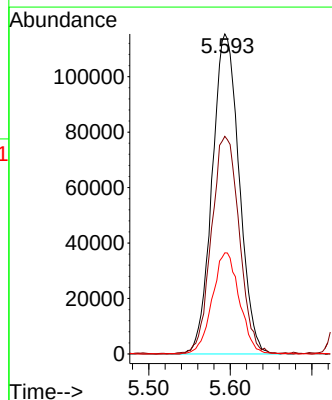
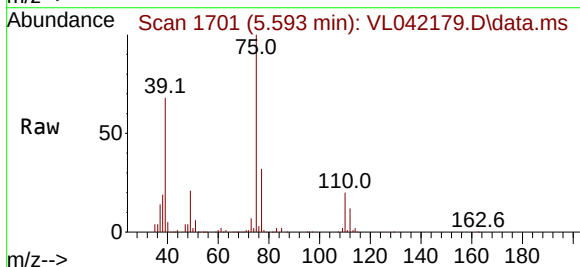
Tgt Ion: 75 Resp: 265101

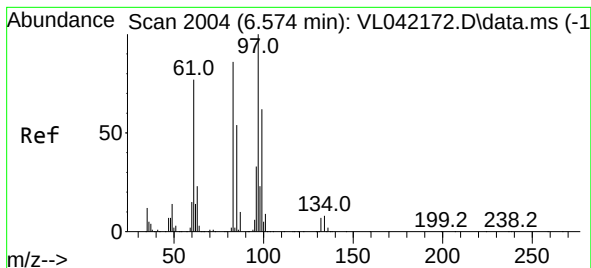
Ion Ratio Lower Upper

75 100

39 67.8 55.8 83.6

77 31.6 26.0 39.0





#47

1,1,2-Trichloroethane

Concen: 9.638 ppbv

RT: 6.577 min Scan# 2004

Delta R.T. 0.003 min

Lab File: VL042179.D

Acq: 27 Mar 2025 12:23

Instrument :

MSVOA_L

ClientSampleId :

ICVVL032725

Tgt Ion: 97 Resp: 183228

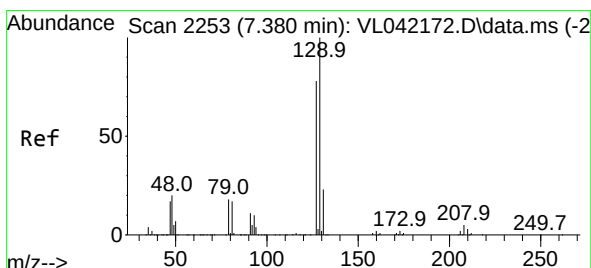
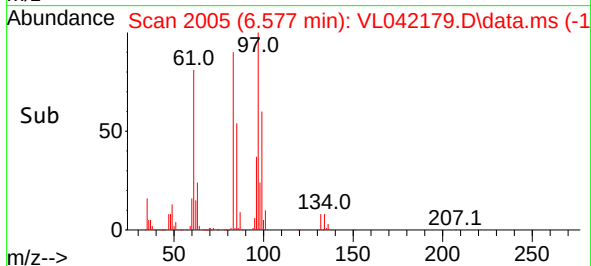
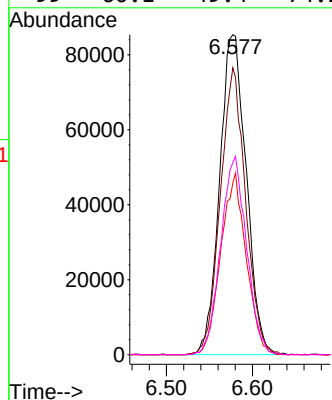
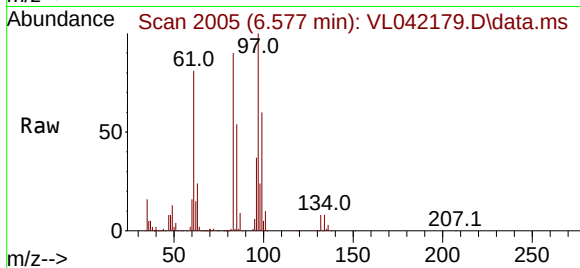
Ion Ratio Lower Upper

97 100

83 89.7 69.2 103.8

85 53.6 43.1 64.7

99 60.1 49.4 74.2



#48

Dibromochloromethane

Concen: 10.018 ppbv

RT: 7.383 min Scan# 2254

Delta R.T. 0.003 min

Lab File: VL042179.D

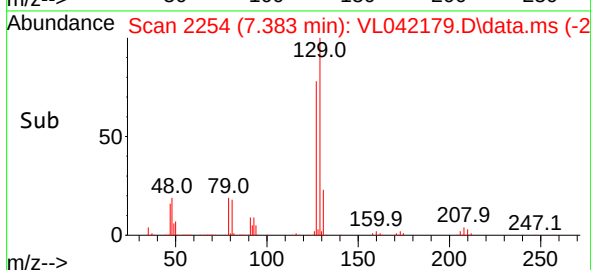
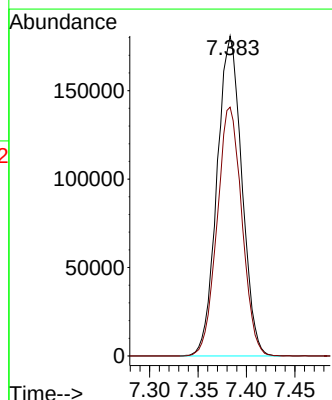
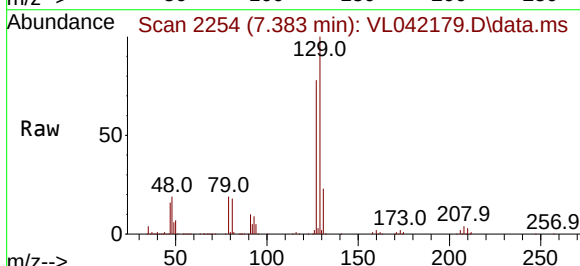
Acq: 27 Mar 2025 12:23

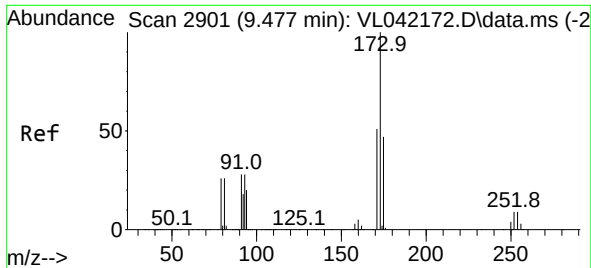
Tgt Ion: 129 Resp: 322766

Ion Ratio Lower Upper

129 100

127 77.7 39.1 117.2

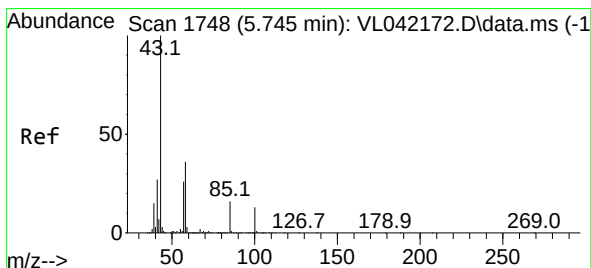
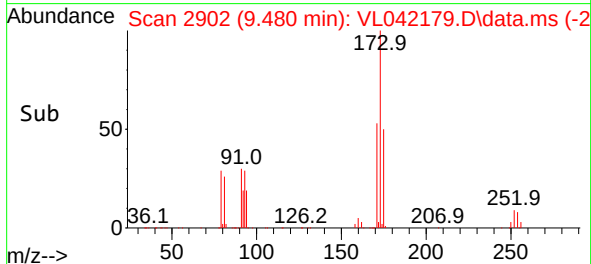
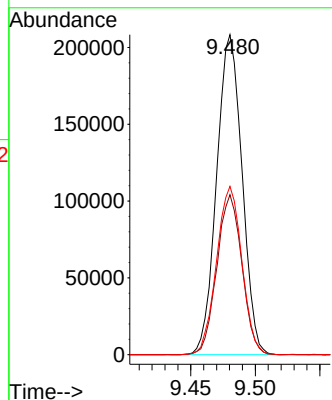
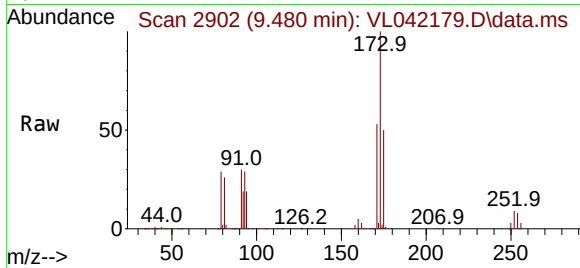




#49
Bromoform
Concen: 9.858 ppbv
RT: 9.480 min Scan# 2902
Delta R.T. 0.003 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

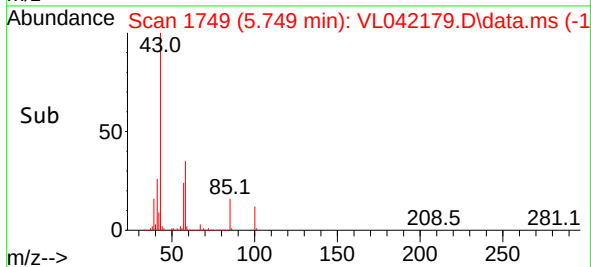
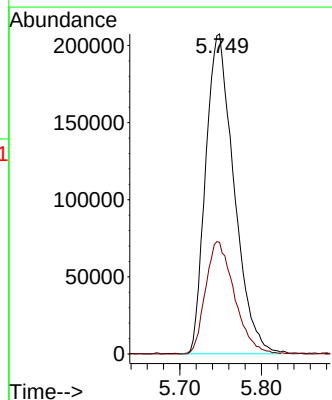
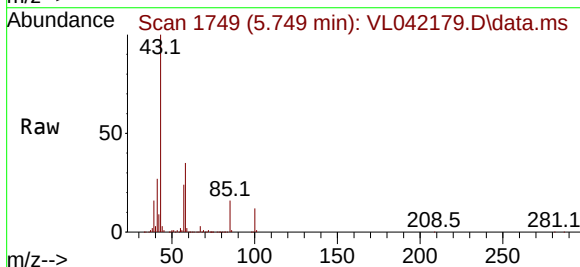
Instrument :
MSVOA_L
ClientSampleId :
ICVVL032725

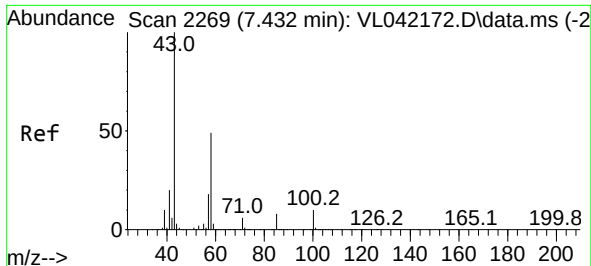
Tgt Ion:173 Resp: 285149
Ion Ratio Lower Upper
173 100
175 49.2 38.6 57.8
171 52.4 41.8 62.6



#50
4-Methyl-2-Pentanone
Concen: 8.749 ppbv
RT: 5.749 min Scan# 1749
Delta R.T. 0.003 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

Tgt Ion: 43 Resp: 500791
Ion Ratio Lower Upper
43 100
58 35.8 29.0 43.6

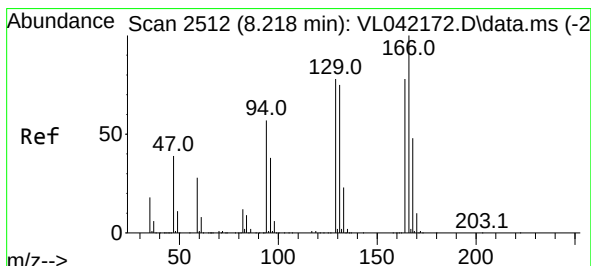
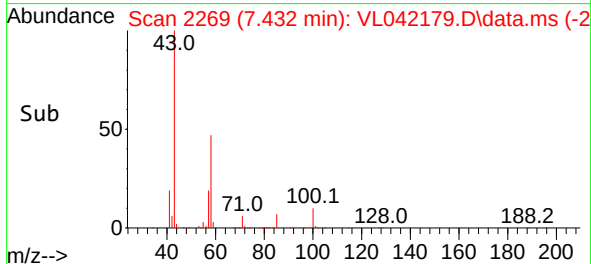
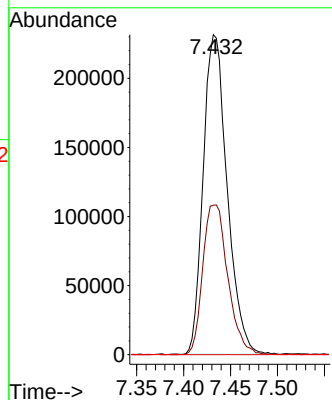
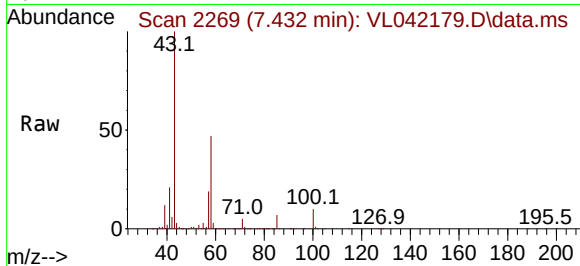




#51
2-Hexanone
Concen: 8.741 ppbv
RT: 7.432 min Scan# 21
Delta R.T. -0.000 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

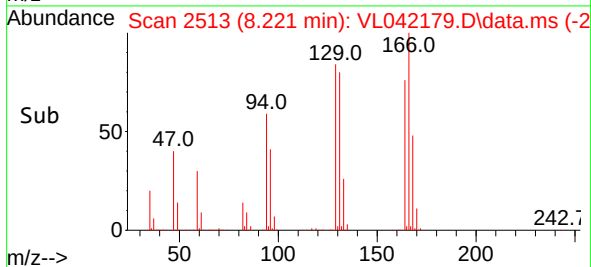
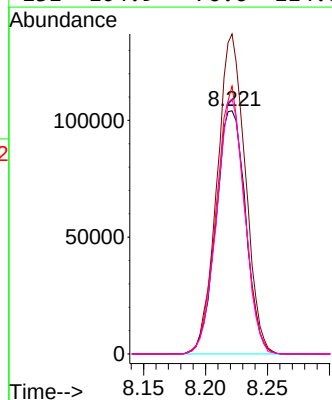
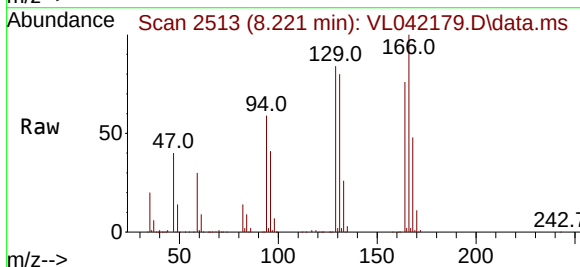
Instrument :
MSVOA_L
ClientSampleId :
ICVVL032725

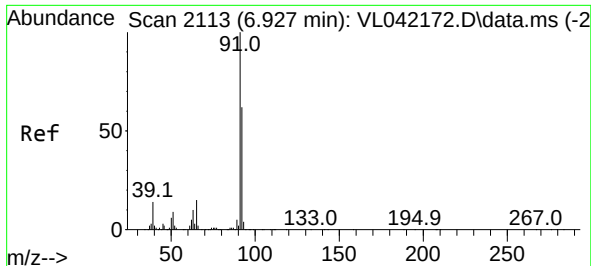
Tgt Ion: 43 Resp: 410889
Ion Ratio Lower Upper
43 100
58 48.9 39.7 59.5
98 0.0 0.1 0.1#



#52
Tetrachloroethene
Concen: 8.855 ppbv
RT: 8.221 min Scan# 2513
Delta R.T. 0.003 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

Tgt Ion:164 Resp: 173420
Ion Ratio Lower Upper
164 100
166 131.6 102.5 153.7
129 110.1 79.8 119.8
131 104.9 76.6 114.8

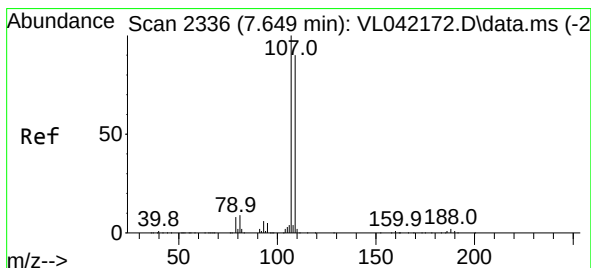
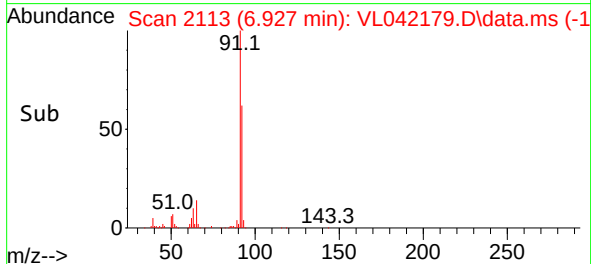
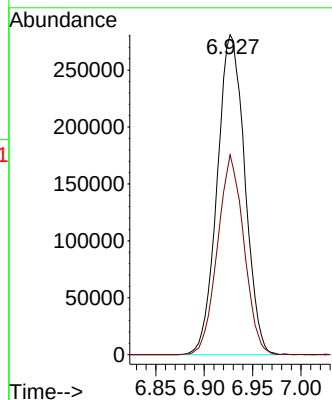
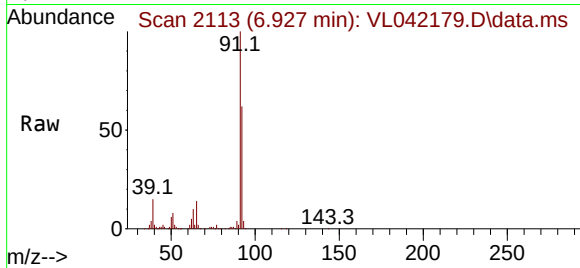




#53
Toluene
Concen: 9.514 ppbv
RT: 6.927 min Scan# 2113
Delta R.T. -0.000 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

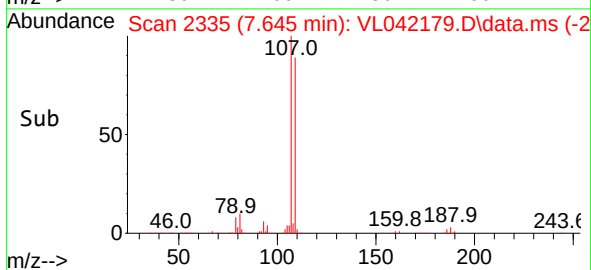
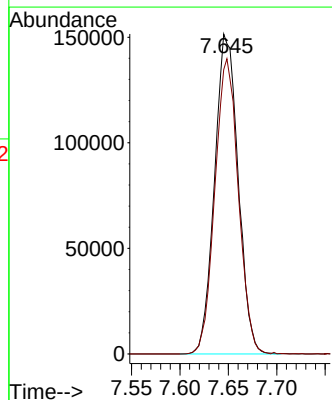
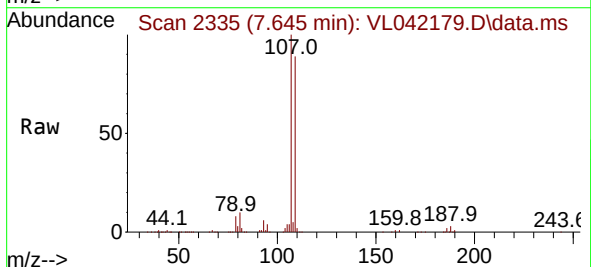
Instrument :
MSVOA_L
ClientSampleId :
ICVVL032725

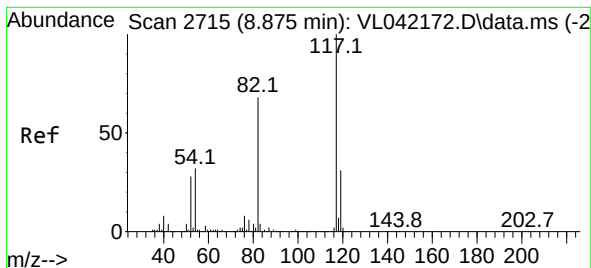
Tgt Ion: 91 Resp: 556897
Ion Ratio Lower Upper
91 100
92 59.8 48.4 72.6



#54
1,2-Dibromoethane
Concen: 9.695 ppbv
RT: 7.645 min Scan# 2335
Delta R.T. -0.003 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

Tgt Ion: 107 Resp: 256930
Ion Ratio Lower Upper
107 100
109 88.9 72.2 108.4





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.878 min Scan# 2715

Delta R.T. 0.003 min

Lab File: VL042179.D

Acq: 27 Mar 2025 12:23

Instrument :

MSVOA_L

ClientSampleId :

ICVVL032725

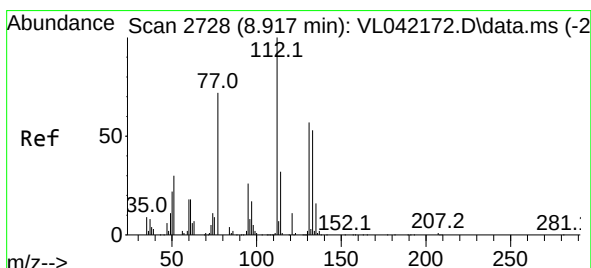
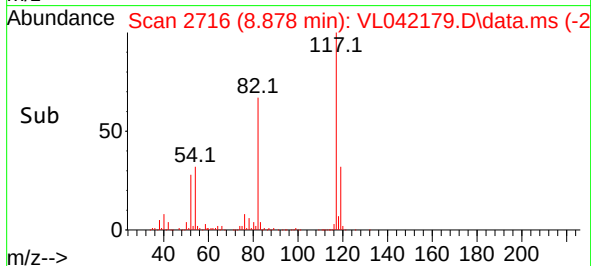
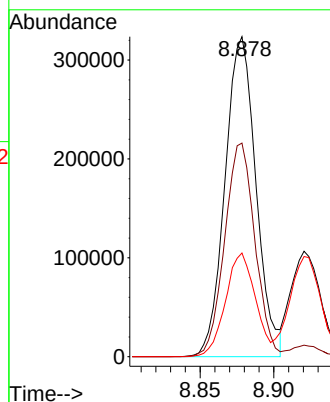
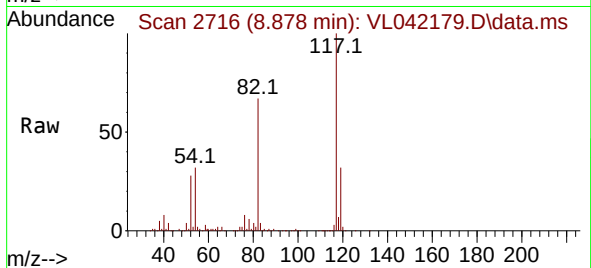
Tgt Ion:117 Resp: 473357

Ion Ratio Lower Upper

117 100

82 68.7 55.8 83.6

119 31.2 25.5 38.3



#56

1,1,1,2-Tetrachloroethane

Concen: 9.567 ppbv

RT: 8.920 min Scan# 2729

Delta R.T. 0.003 min

Lab File: VL042179.D

Acq: 27 Mar 2025 12:23

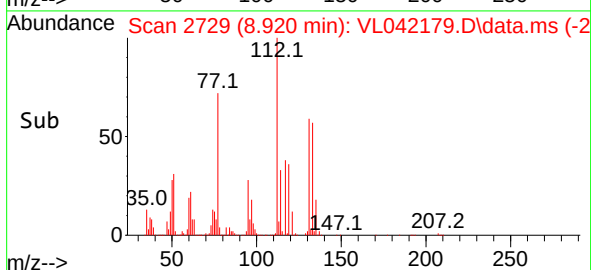
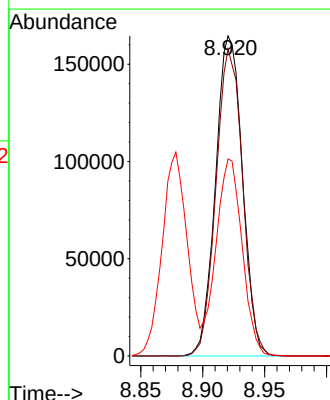
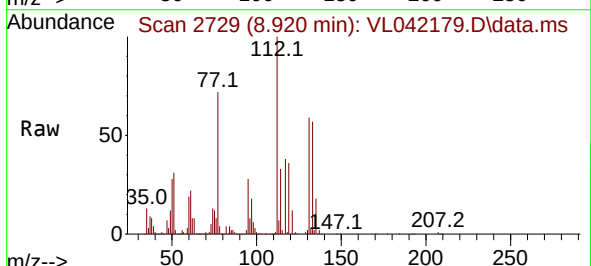
Tgt Ion:131 Resp: 249270

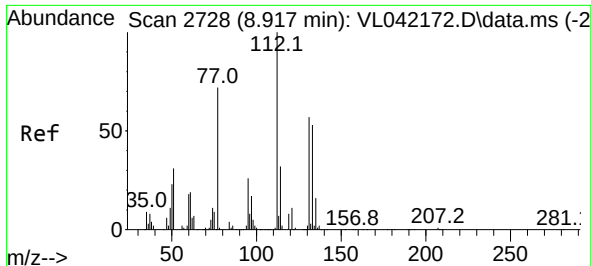
Ion Ratio Lower Upper

131 100

133 95.0 76.6 114.8

119 61.3 49.8 74.6

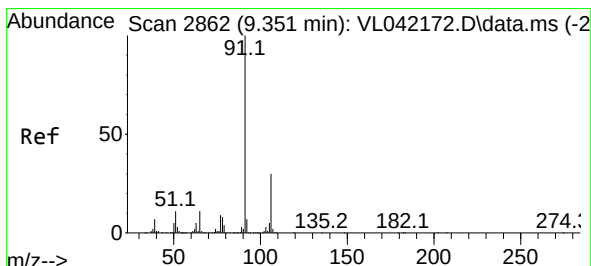
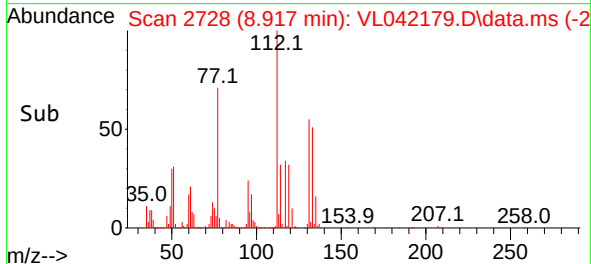
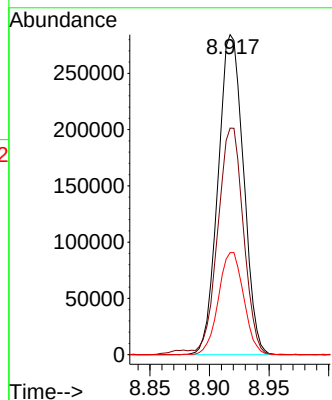
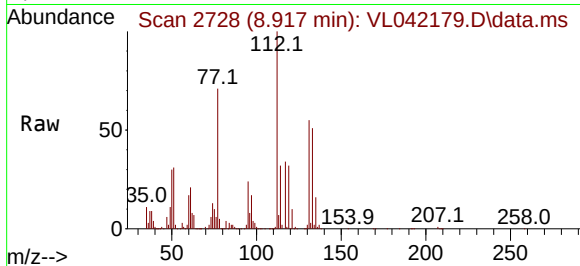




#57
Chlorobenzene
Concen: 9.411 ppbv
RT: 8.917 min Scan# 21
Delta R.T. -0.000 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

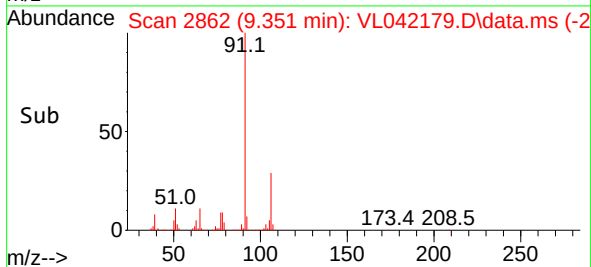
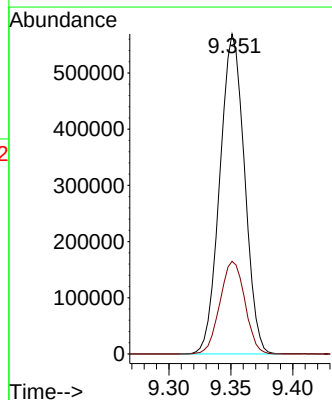
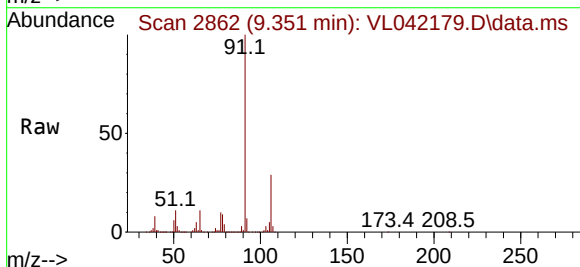
Instrument :
MSVOA_L
ClientSampleId :
ICVVL032725

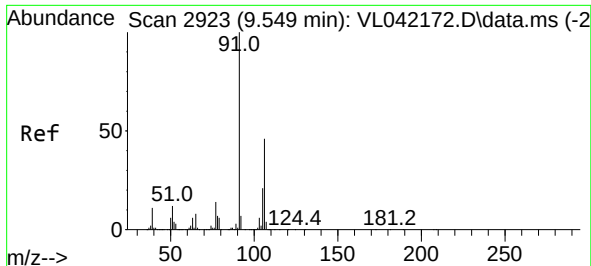
Tgt Ion:112 Resp: 422531
Ion Ratio Lower Upper
112 100
77 70.6 58.2 87.2
114 31.9 29.1 35.5



#58
Ethyl Benzene
Concen: 9.412 ppbv
RT: 9.351 min Scan# 2862
Delta R.T. -0.000 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

Tgt Ion: 91 Resp: 791360
Ion Ratio Lower Upper
91 100
106 28.9 24.2 36.2





#59

m/p-Xylene

Concen: 8.695 ppbv

RT: 9.548 min Scan# 2923

Delta R.T. -0.000 min

Lab File: VL042179.D

Acq: 27 Mar 2025 12:23

Instrument :

MSVOA_L

ClientSampleId :

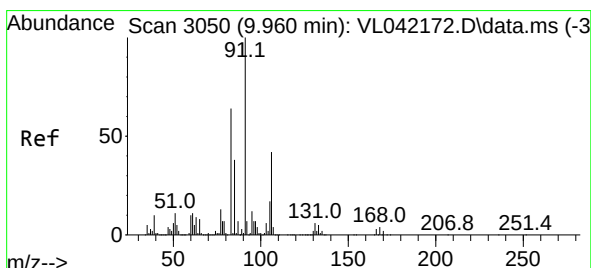
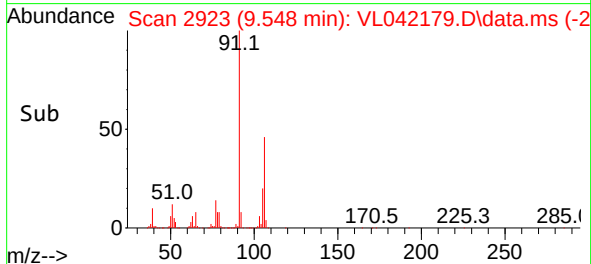
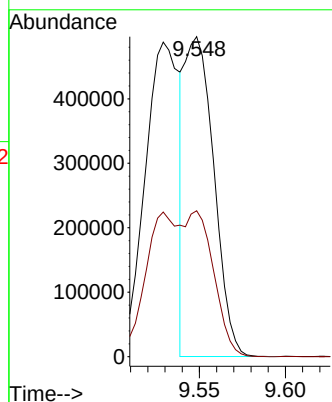
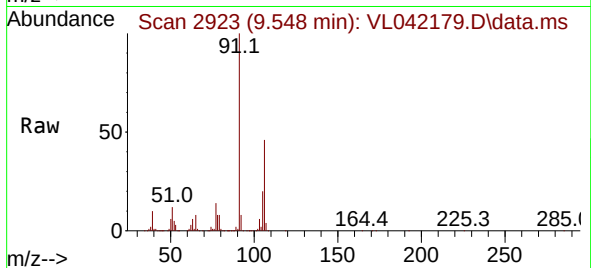
ICVVL032725

Tgt Ion: 91 Resp: 583773

Ion Ratio Lower Upper

91 100

106 97.9 36.4 54.6#



#60

o-Xylene

Concen: 9.404 ppbv

RT: 9.959 min Scan# 3050

Delta R.T. -0.000 min

Lab File: VL042179.D

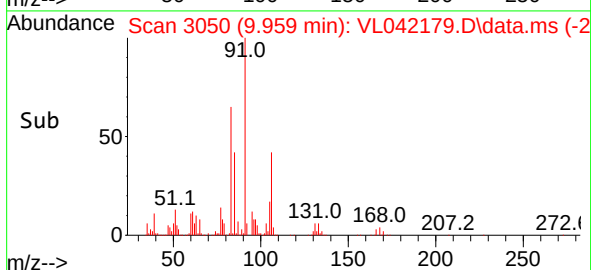
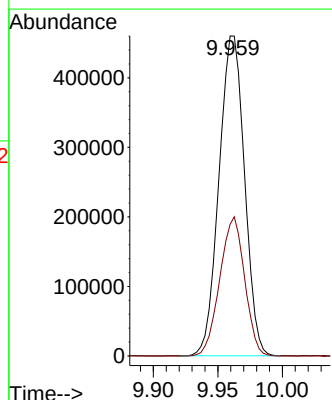
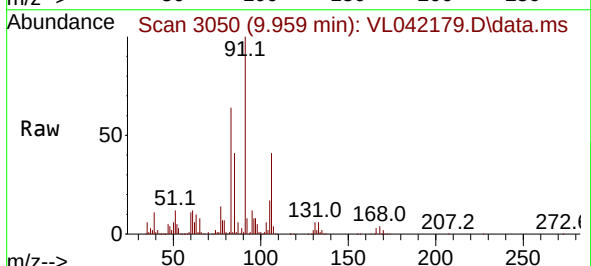
Acq: 27 Mar 2025 12:23

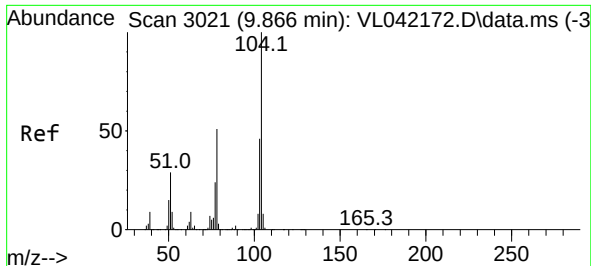
Tgt Ion: 91 Resp: 632918

Ion Ratio Lower Upper

91 100

106 42.2 20.8 62.5

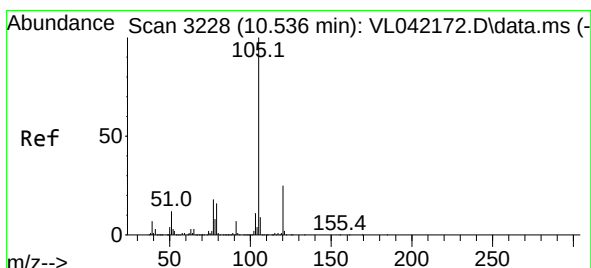
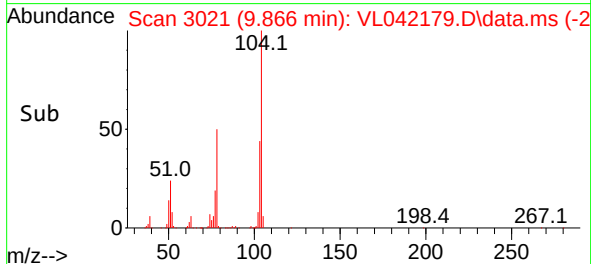
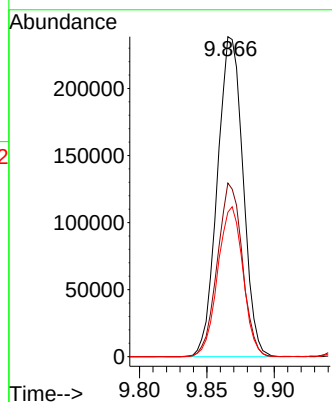
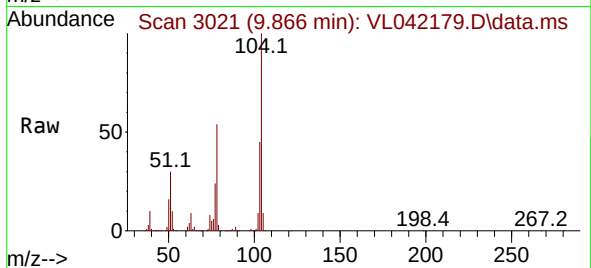




#61
Styrene
Concen: 9.488 ppbv
RT: 9.866 min Scan# 3021
Delta R.T. -0.000 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

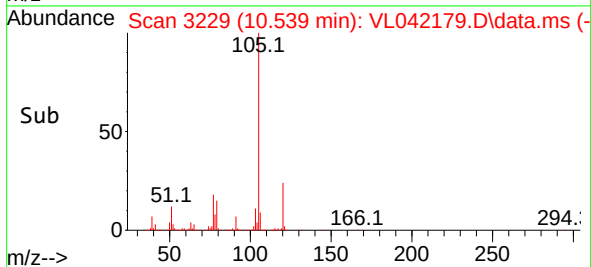
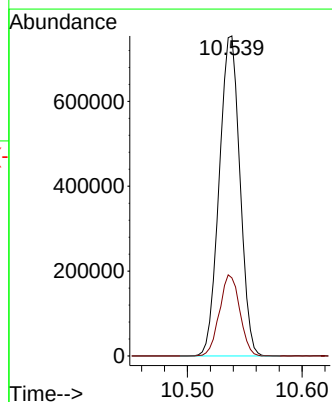
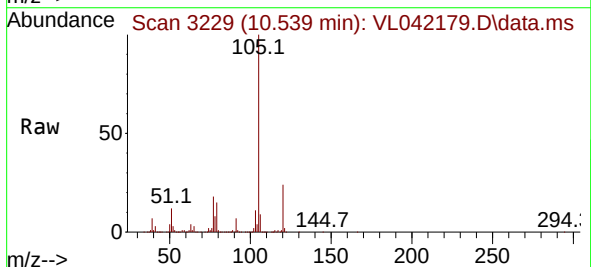
Instrument :
MSVOA_L
ClientSampleId :
ICVVL032725

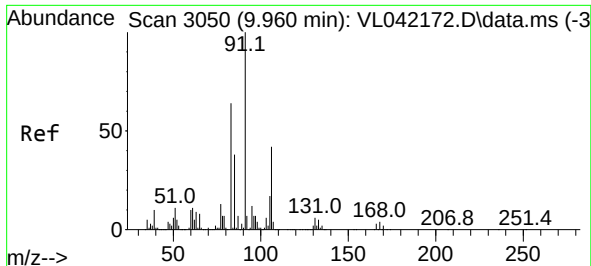
Tgt Ion:104 Resp: 315910
Ion Ratio Lower Upper
104 100
78 52.8 41.8 62.6
103 46.3 37.0 55.4



#62
Isopropylbenzene
Concen: 9.388 ppbv
RT: 10.539 min Scan# 3229
Delta R.T. 0.003 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

Tgt Ion:105 Resp: 944938
Ion Ratio Lower Upper
105 100
120 24.9 19.9 29.9





#63

1,1,2,2-Tetrachloroethane

Concen: 9.357 ppbv

RT: 9.959 min Scan# 3050

Delta R.T. -0.000 min

Lab File: VL042179.D

Acq: 27 Mar 2025 12:23

Instrument :

MSVOA_L

ClientSampleId :

ICVVL032725

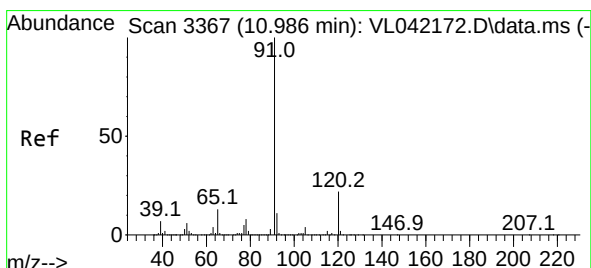
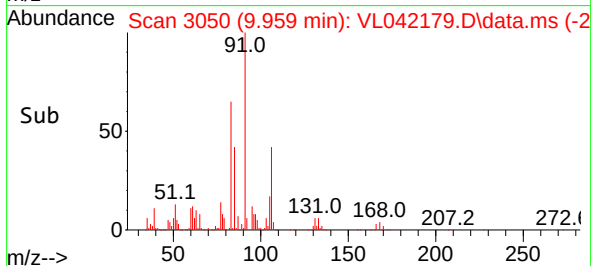
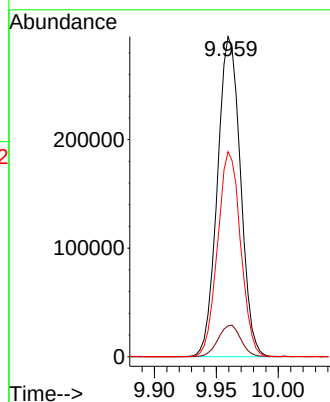
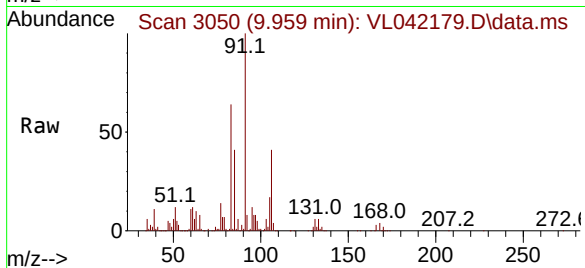
Tgt Ion: 83 Resp: 382635

Ion Ratio Lower Upper

83 100

131 9.7 4.8 14.4

85 63.9 32.5 97.5



#64

n-propylbenzene

Concen: 9.439 ppbv

RT: 10.985 min Scan# 3367

Delta R.T. -0.000 min

Lab File: VL042179.D

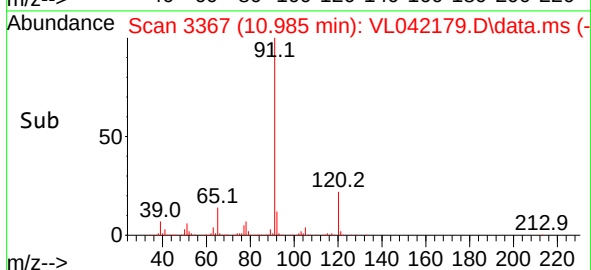
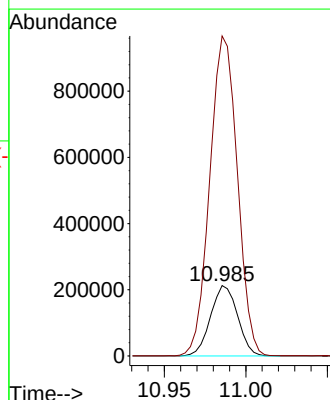
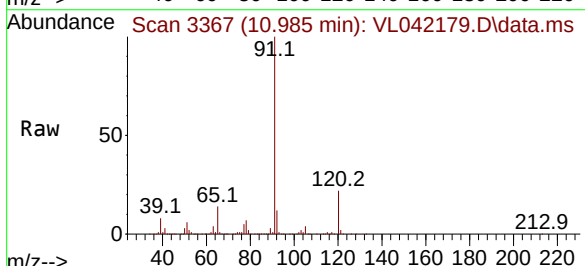
Acq: 27 Mar 2025 12:23

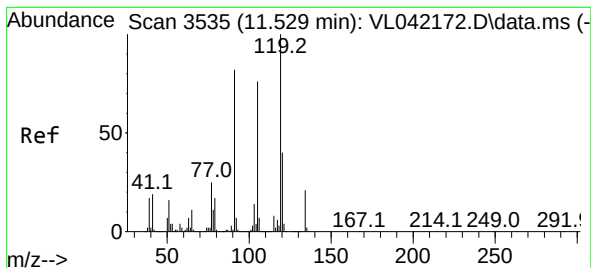
Tgt Ion: 120 Resp: 244547

Ion Ratio Lower Upper

120 100

91 465.9 376.9 565.3

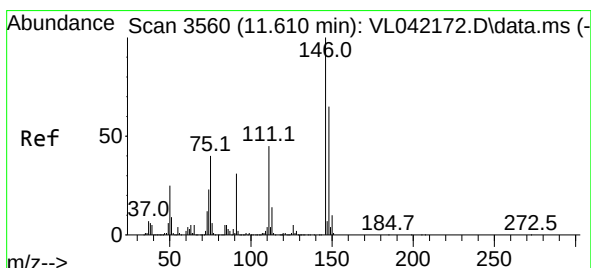
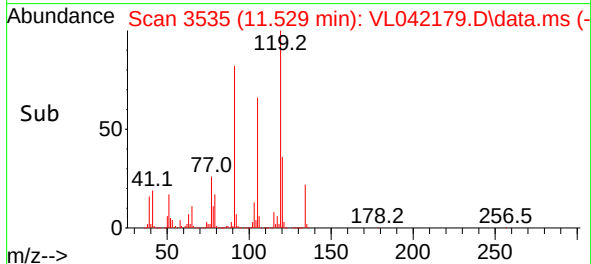
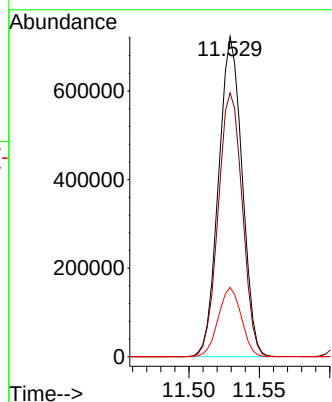
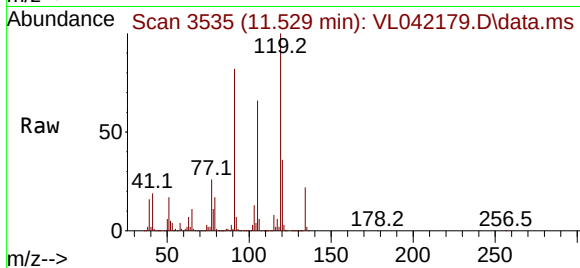




#65
 tert-Butylbenzene
 Concen: 9.065 ppbv
 RT: 11.529 min Scan# 3535
 Delta R.T. -0.000 min
 Lab File: VL042179.D
 Acq: 27 Mar 2025 12:23

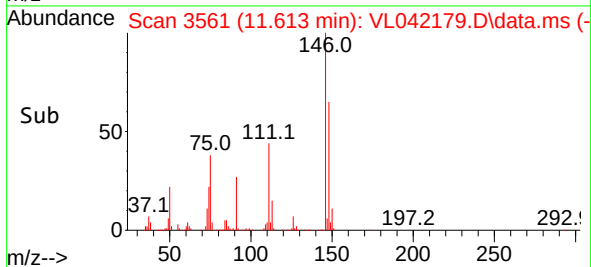
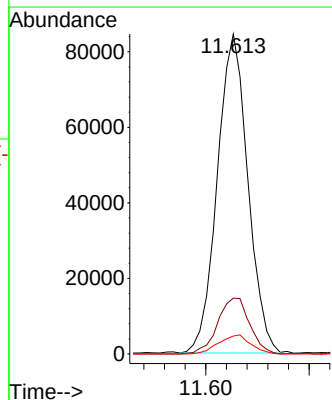
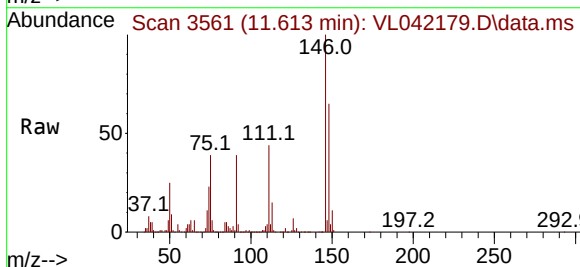
Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL032725

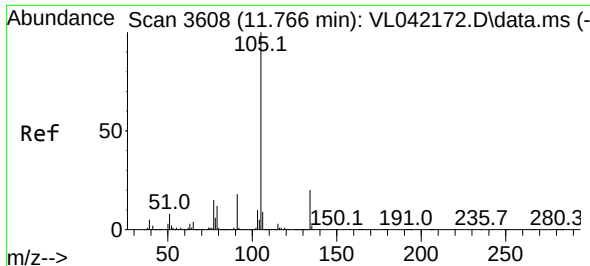
Tgt Ion:119 Resp: 843828
 Ion Ratio Lower Upper
 119 100
 91 84.3 66.0 99.0
 134 21.2 16.7 25.1



#66
 Benzyl Chloride
 Concen: 8.789 ppbv
 RT: 11.613 min Scan# 3561
 Delta R.T. 0.003 min
 Lab File: VL042179.D
 Acq: 27 Mar 2025 12:23

Tgt Ion: 91 Resp: 86804
 Ion Ratio Lower Upper
 91 100
 126 18.5 13.8 20.6
 128 6.2 4.5 6.7

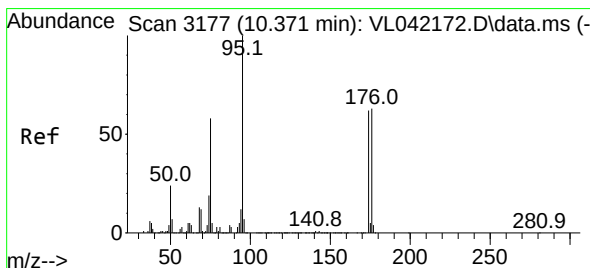
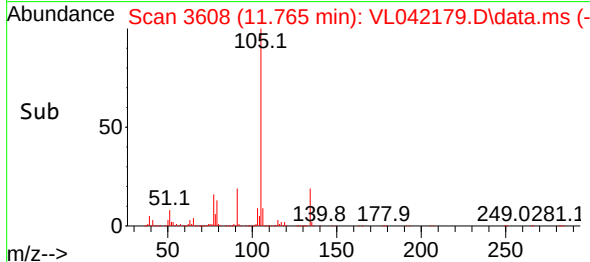
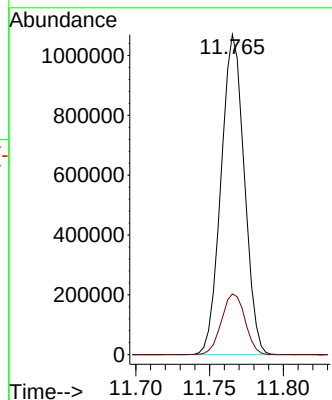
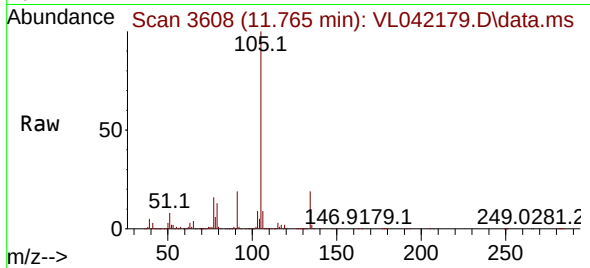




#67
 sec-Butylbenzene
 Concen: 9.063 ppbv
 RT: 11.765 min Scan# 3178
 Delta R.T. -0.000 min
 Lab File: VL042179.D
 Acq: 27 Mar 2025 12:23

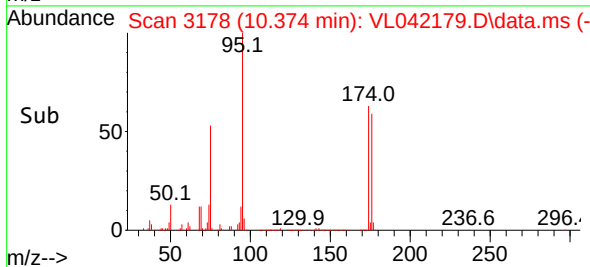
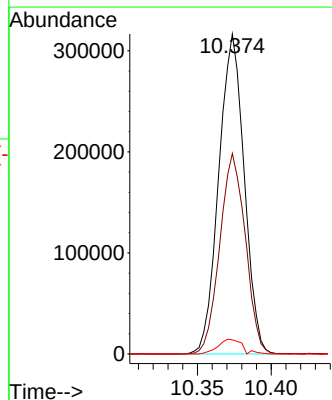
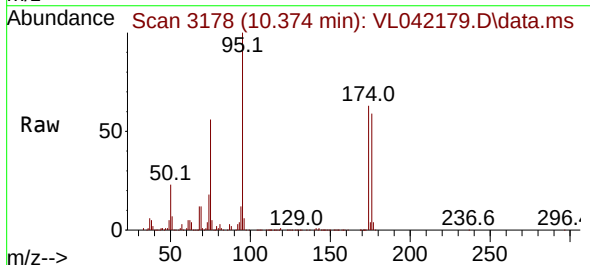
Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL032725

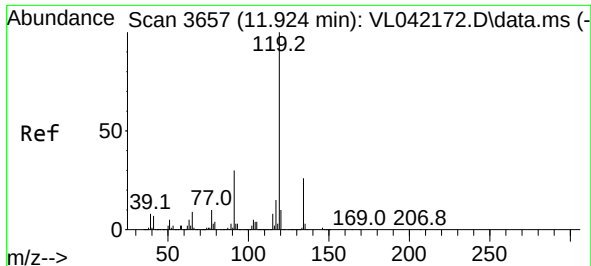
Tgt Ion:105 Resp: 1172636
 Ion Ratio Lower Upper
 105 100
 134 19.4 15.5 23.3



#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.774 ppbv
 RT: 10.374 min Scan# 3178
 Delta R.T. 0.003 min
 Lab File: VL042179.D
 Acq: 27 Mar 2025 12:23

Tgt Ion: 95 Resp: 379929
 Ion Ratio Lower Upper
 95 100
 174 63.0 50.6 76.0
 175 4.4 3.8 5.6

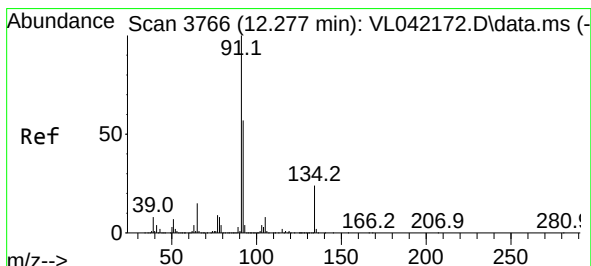
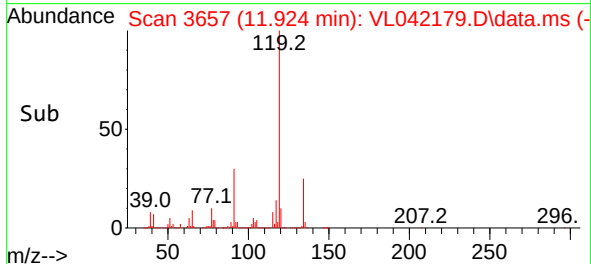
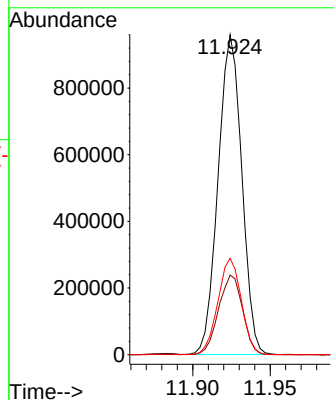
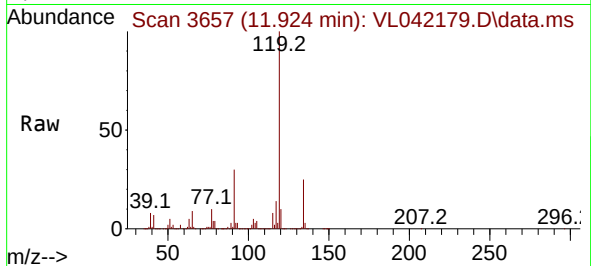




#69
p-Isopropyltoluene
Concen: 9.153 ppbv
RT: 11.924 min Scan# 3657
Delta R.T. -0.000 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

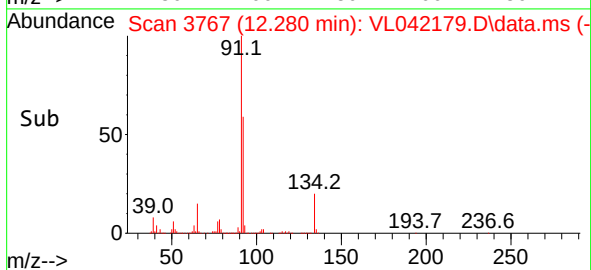
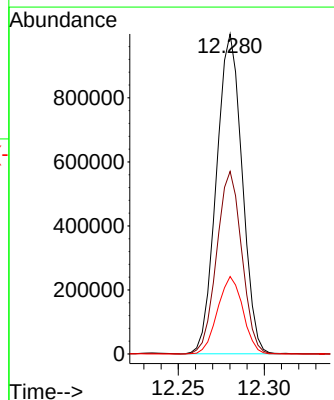
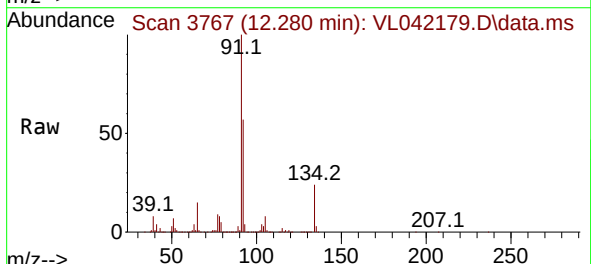
Instrument :
MSVOA_L
ClientSampleId :
ICVVL032725

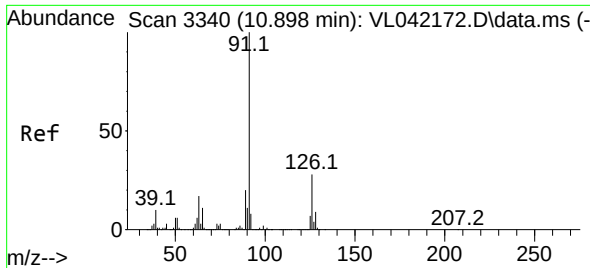
Tgt Ion:119 Resp: 1019694
Ion Ratio Lower Upper
119 100
134 25.3 20.4 30.6
91 29.9 23.7 35.5



#70
n-Butylbenzene
Concen: 9.115 ppbv
RT: 12.280 min Scan# 3767
Delta R.T. 0.003 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

Tgt Ion: 91 Resp: 1038548
Ion Ratio Lower Upper
91 100
92 56.0 44.9 67.3
134 23.8 19.2 28.8

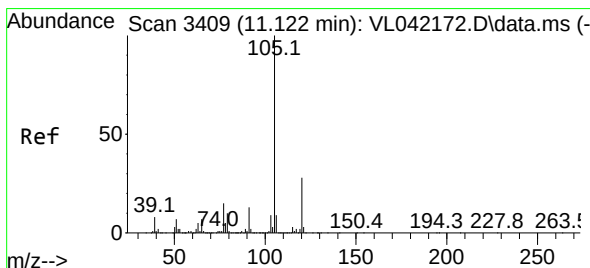
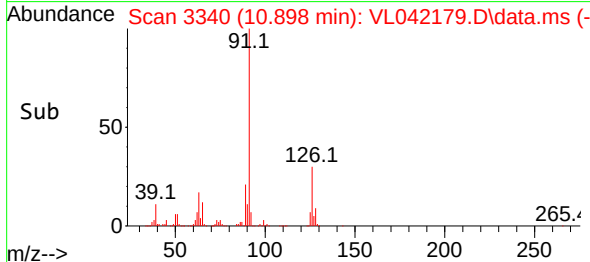
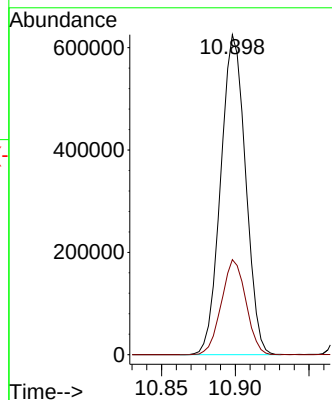
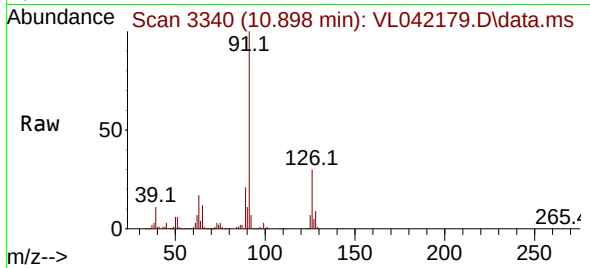




#71
2-Chlorotoluene
Concen: 9.382 ppbv
RT: 10.898 min Scan# 31
Delta R.T. -0.000 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

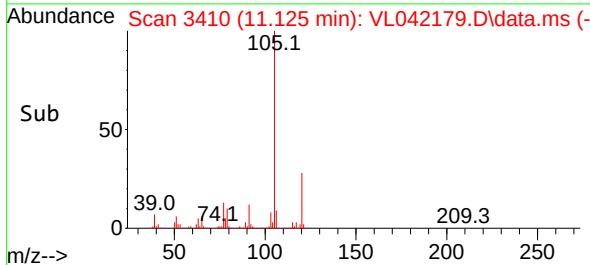
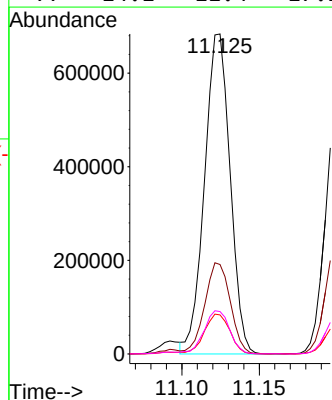
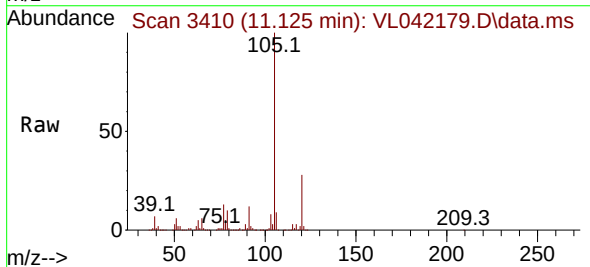
Instrument :
MSVOA_L
ClientSampleId :
ICVVL032725

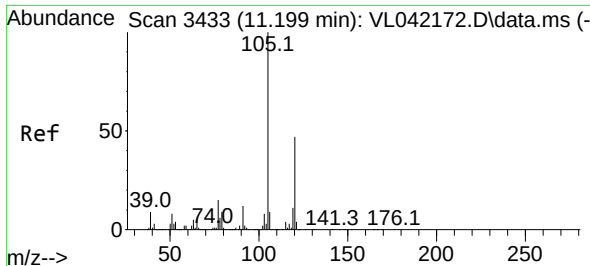
Tgt Ion: 91 Resp: 732874
Ion Ratio Lower Upper
91 100
126 29.2 11.6 46.4



#72
4-Ethyltoluene
Concen: 9.370 ppbv
RT: 11.125 min Scan# 3410
Delta R.T. 0.003 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

Tgt Ion: 105 Resp: 785185
Ion Ratio Lower Upper
105 100
120 29.6 23.4 35.0
91 12.9 10.3 15.5
77 14.1 11.4 17.2

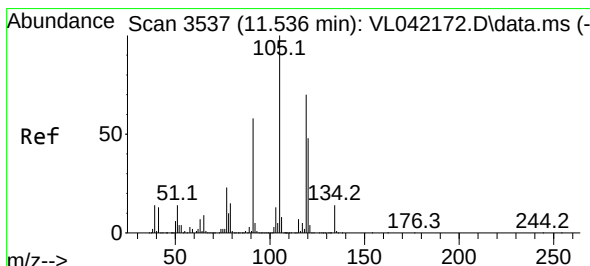
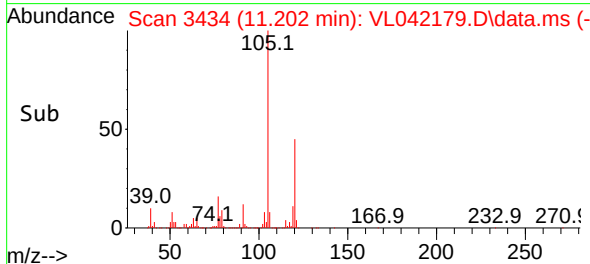
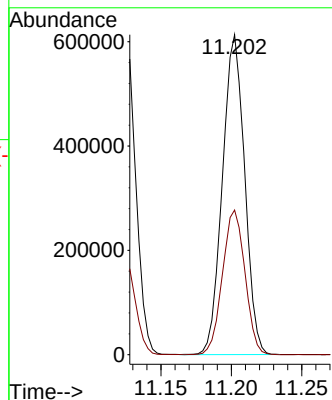
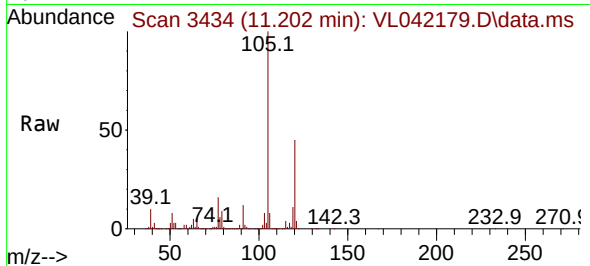




#73
 1,3,5-Trimethylbenzene
 Concen: 9.203 ppbv
 RT: 11.202 min Scan# 3434
 Delta R.T. 0.003 min
 Lab File: VL042179.D
 Acq: 27 Mar 2025 12:23

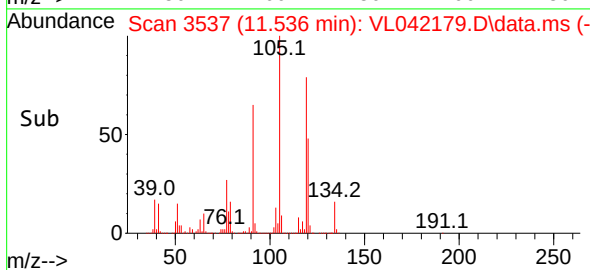
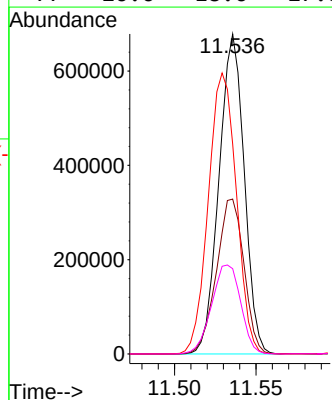
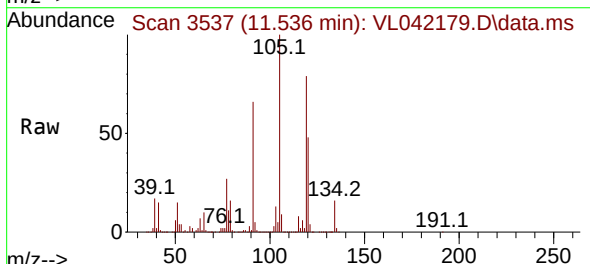
Instrument : MSVOA_1
 ClientSampleId : ICVVL032725

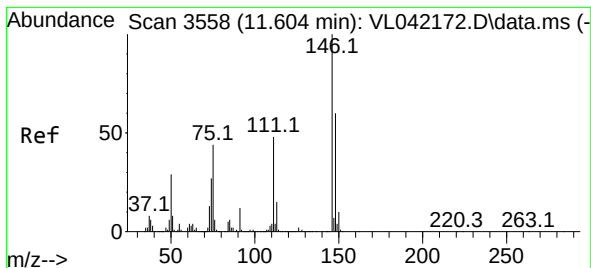
Tgt Ion:105 Resp: 673541
 Ion Ratio Lower Upper
 105 100
 120 45.2 37.4 56.0



#74
 1,2,4-Trimethylbenzene
 Concen: 8.648 ppbv
 RT: 11.536 min Scan# 3537
 Delta R.T. -0.000 min
 Lab File: VL042179.D
 Acq: 27 Mar 2025 12:23

Tgt Ion:105 Resp: 729155
 Ion Ratio Lower Upper
 105 100
 120 48.4 38.6 58.0
 91 65.6 46.2 69.2
 77 26.6 18.6 27.8





#75

1,3-Dichlorobenzene

Concen: 9.224 ppbv

RT: 11.607 min Scan# 3558

Delta R.T. 0.003 min

Lab File: VL042179.D

Acq: 27 Mar 2025 12:23

Instrument :

MSVOA_L

ClientSampleId :

ICVVL032725

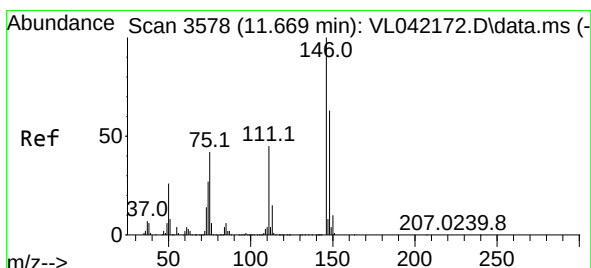
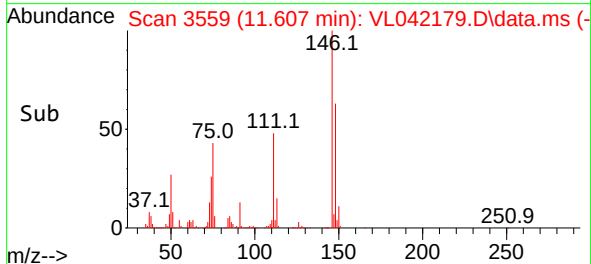
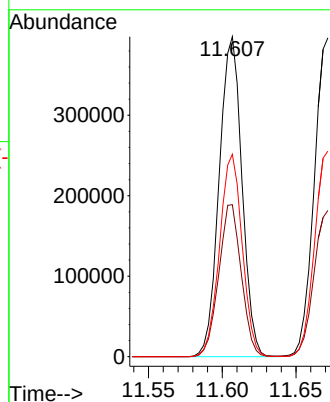
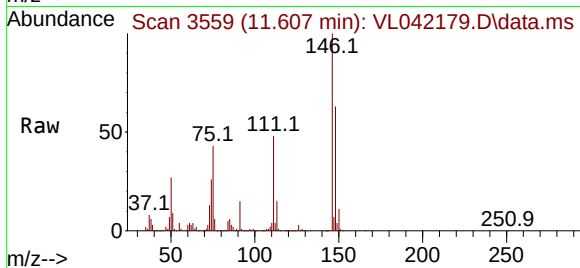
Tgt Ion:146 Resp: 426573

Ion Ratio Lower Upper

146 100

111 47.2 23.8 71.2

148 62.9 31.9 95.9



#76

1,4-Dichlorobenzene

Concen: 9.263 ppbv

RT: 11.672 min Scan# 3579

Delta R.T. 0.003 min

Lab File: VL042179.D

Acq: 27 Mar 2025 12:23

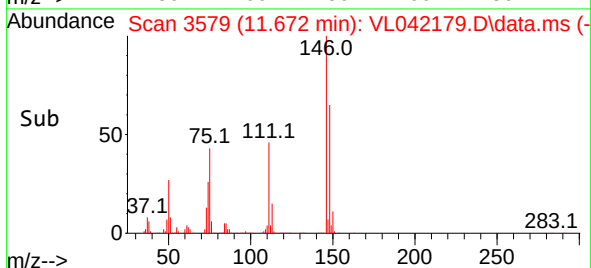
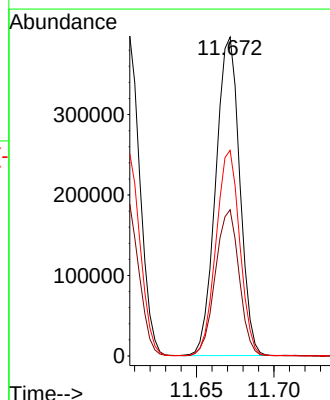
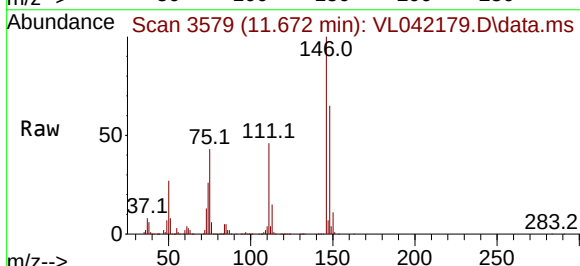
Tgt Ion:146 Resp: 426318

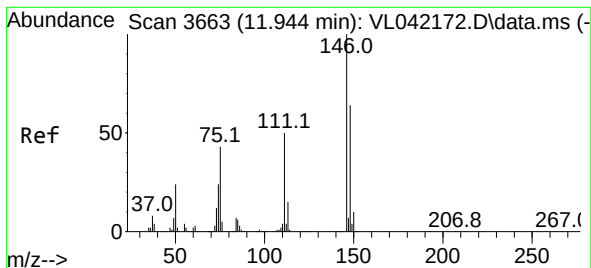
Ion Ratio Lower Upper

146 100

111 45.6 23.0 69.0

148 64.1 31.9 95.7





#77

1,2-Dichlorobenzene

Concen: 9.154 ppbv

RT: 11.947 min Scan# 3663

Delta R.T. 0.003 min

Lab File: VL042179.D

Acq: 27 Mar 2025 12:23

Instrument :

MSVOA_1

ClientSampleId :

ICVVL032725

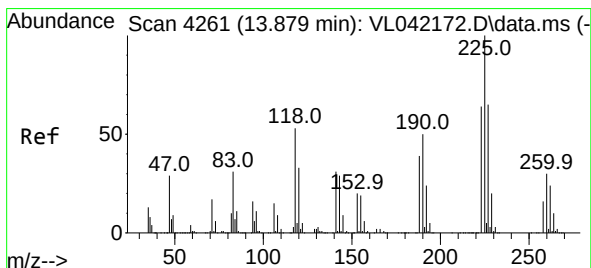
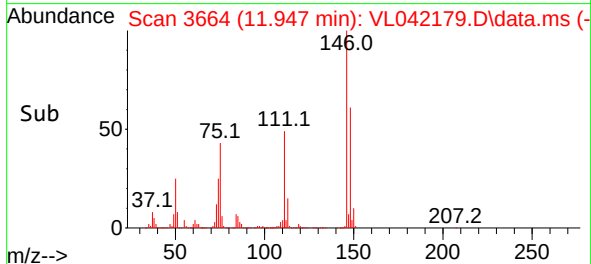
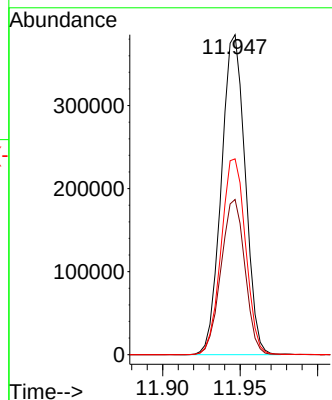
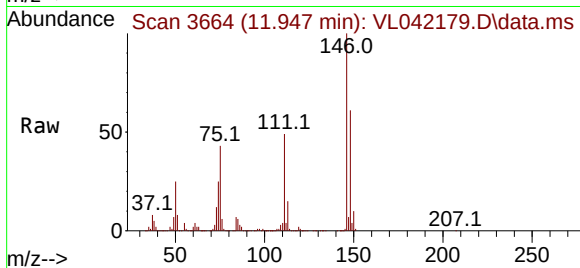
Tgt Ion:146 Resp: 412180

Ion Ratio Lower Upper

146 100

111 48.8 24.8 74.3

148 62.8 31.6 94.8



#78

Hexachloro-1,3-Butadiene

Concen: 7.776 ppbv

RT: 13.882 min Scan# 4262

Delta R.T. 0.003 min

Lab File: VL042179.D

Acq: 27 Mar 2025 12:23

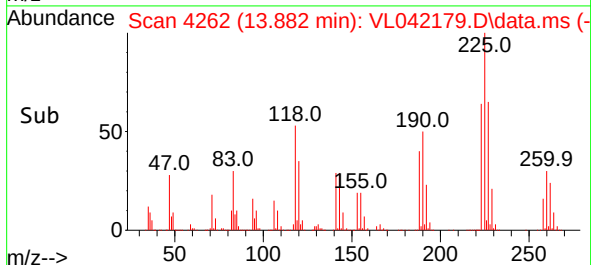
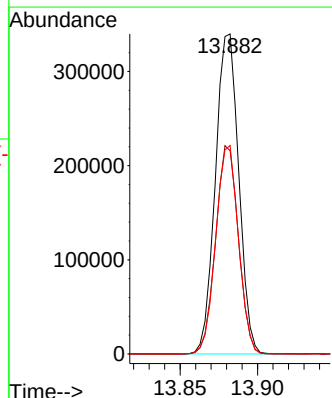
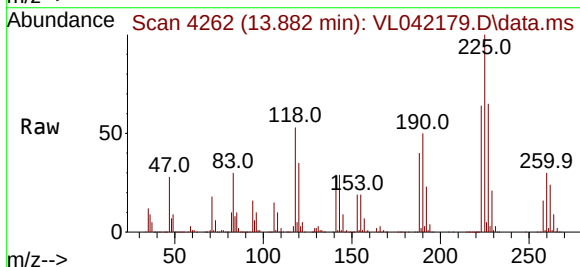
Tgt Ion:225 Resp: 356386

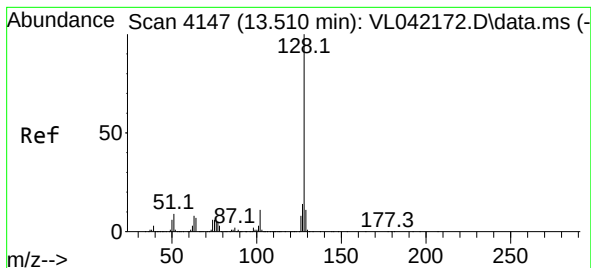
Ion Ratio Lower Upper

225 100

223 63.4 50.6 76.0

227 63.4 51.2 76.8





#79

Naphthalene

Concen: 8.385 ppbv

RT: 13.513 min Scan# 4147

Delta R.T. 0.003 min

Lab File: VL042179.D

Acq: 27 Mar 2025 12:23

Instrument :

MSVOA_L

ClientSampleId :

ICVVL032725

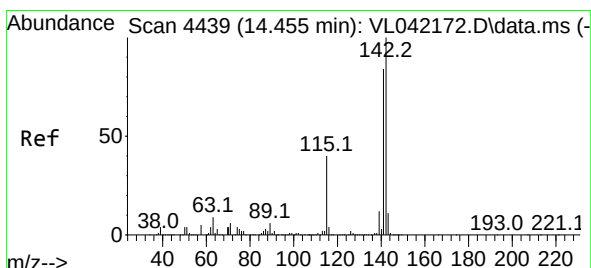
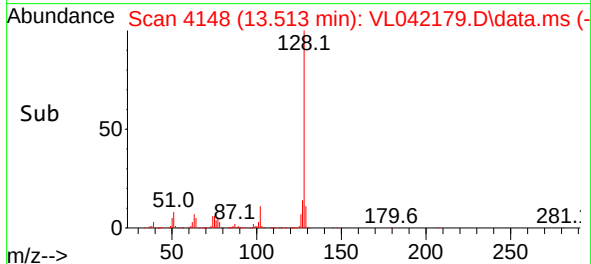
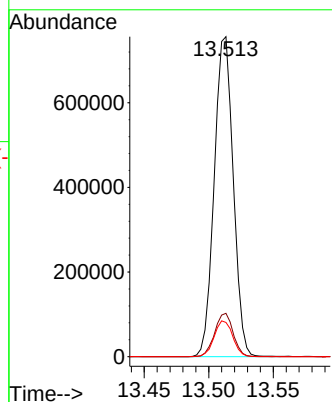
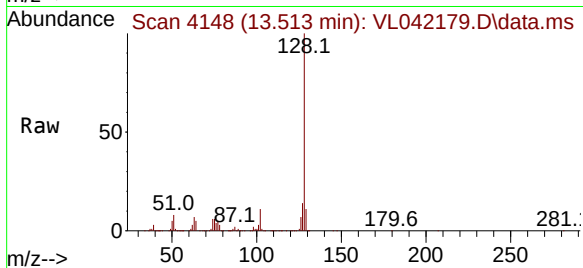
Tgt Ion:128 Resp: 773311

Ion Ratio Lower Upper

128 100

127 13.6 10.8 16.2

129 10.7 9.0 13.4



#80

Naphthalene,2-methyl-

Concen: 7.151 ppbv

RT: 14.455 min Scan# 4439

Delta R.T. -0.000 min

Lab File: VL042179.D

Acq: 27 Mar 2025 12:23

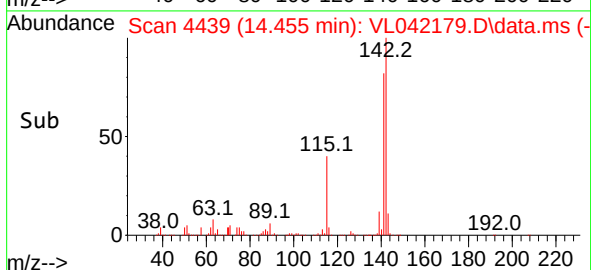
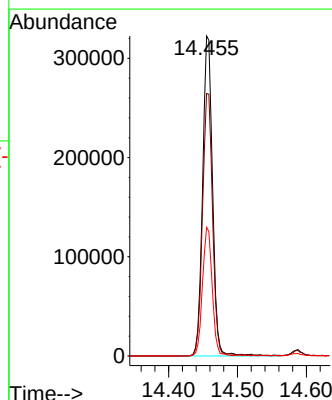
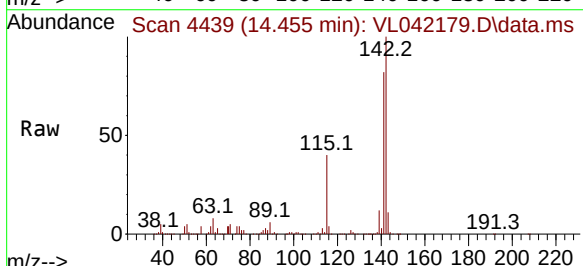
Tgt Ion:142 Resp: 323443

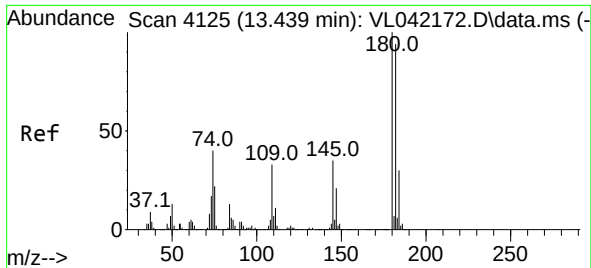
Ion Ratio Lower Upper

142 100

141 83.5 66.3 99.5

115 39.8 31.6 47.4

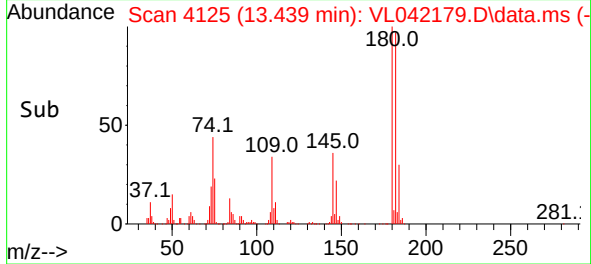
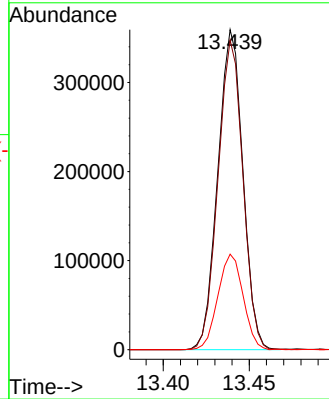
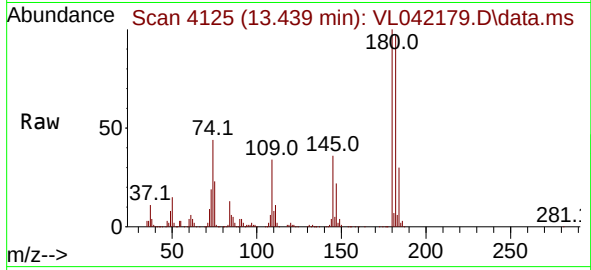




#81
 1,2,4-Trichlorobenzene
 Concen: 8.553 ppbv
 RT: 13.439 min Scan# 41
 Delta R.T. -0.000 min
 Lab File: VL042179.D
 Acq: 27 Mar 2025 12:23

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL032725

Tgt Ion:180 Resp: 363863
 Ion Ratio Lower Upper
 180 100
 182 96.2 75.1 112.7
 184 30.1 24.4 36.6



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040725\
 Data File : VL042228.D
 Acq On : 07 Apr 2025 09:31
 Operator : SY/MD
 Sample : VSTDC0010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDC0010

Quant Time: Apr 08 01:50:24 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri Mar 28 02:00:52 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.800	49	190462	10.000	ppbv	0.02
33) 1,4-Difluorobenzene	3.978	114	513778	10.000	ppbv	0.03
55) Chlorobenzene-d5	8.901	117	464477	10.000	ppbv	0.03

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.393	95	380328	9.971	ppbv	0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.700%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.502	85	273290	9.718	ppbv	100
3) Chlorodifluoromethane	1.479	51	273791	9.530	ppbv	97
4) Chloromethane	1.538	50	110890	9.649	ppbv	96
5) Vinyl Chloride	1.586	62	101851	8.363	ppbv	98
6) Bromomethane	1.674	94	47719	9.162	ppbv	99
7) Chloroethane	1.709	64	41389	8.972	ppbv	95
8) Dichlorotetrafluoroethane	1.560	85	230557	9.627	ppbv	94
9) Propene	1.489	41	103393	7.852	ppbv	99
10) Heptane	5.001	43	158430	4.523	ppbv #	28
11) Trichlorofluoromethane	1.884	101	261667	9.563	ppbv	98
12) 1,1,2-Trichlorotrifluo...	2.149	101	209865	9.331	ppbv	98
13) Ethanol	1.729	45	6198	4.979	ppbv	84
14) Bromoethene	1.787	108	72937	8.465	ppbv	98
15) Acetone	1.842	43	229629	8.621	ppbv	94
16) 1,3-Butadiene	1.615	39	109521	8.419	ppbv	100
17) tert-Butyl alcohol	2.049	59	281754	8.492	ppbv	100
18) 1,1-Dichloroethene	2.043	96	94213	8.960	ppbv	97
19) Isopropyl Alcohol	1.894	45	132147	8.793	ppbv	98
20) Methylene Chloride	2.069	84	80384	8.103	ppbv	91
21) Allyl Chloride	2.104	41	167907	8.938	ppbv	96
22) trans-1,2-Dichloroethene	2.350	96	105790	8.705	ppbv	94
23) Vinyl Acetate	2.473	43	97959	8.497	ppbv	98
24) 1,1-Dichloroethane	2.418	63	210138	9.328	ppbv	98
25) Ethyl Acetate	2.849	43	632090	9.143	ppbv	100
26) Hexane	2.839	57	241568	9.046	ppbv	98
27) Carbon Disulfide	2.159	76	262150	9.155	ppbv	96
28) Methyl tert-Butyl Ether	2.450	73	145310	8.740	ppbv	94
29) Chloroform	2.862	83	397772	10.178	ppbv	98
30) Cyclohexane	3.875	84	204416	8.816	ppbv	96
31) cis-1,2-Dichloroethene	2.732	61	246306	9.085	ppbv	98
32) 1,1,1-Trichloroethane	3.383	97	409916	9.162	ppbv	99
34) 2-Butanone	2.570	43	358832	9.632	ppbv	99
35) Carbon Tetrachloride	3.781	117	425964	10.613	ppbv	99
36) Benzene	3.674	78	490813	9.636	ppbv	99
37) 1,2-Dichloroethane	3.234	62	314121	10.772	ppbv	98
38) Trichloroethene	4.574	130	202154	9.512	ppbv	97
39) 1,2-Dichloropropane	4.337	63	175704	9.472	ppbv	92
40) 1,4-Dioxane	4.606	88	86664	8.803	ppbv #	92
41) Tetrahydrofuran	3.069	42	199313	9.290	ppbv	98
42) Bromodichloromethane	4.512	83	430997	10.721	ppbv	99
43) Methyl Methacrylate	4.907	69	185545	8.605	ppbv	98
44) 2,2,4-Trimethylpentane	4.664	57	824962	9.584	ppbv	97
45) t-1,3-Dichloropropene	6.444	75	201676	8.718	ppbv	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040725\
 Data File : VL042228.D
 Acq On : 07 Apr 2025 09:31
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

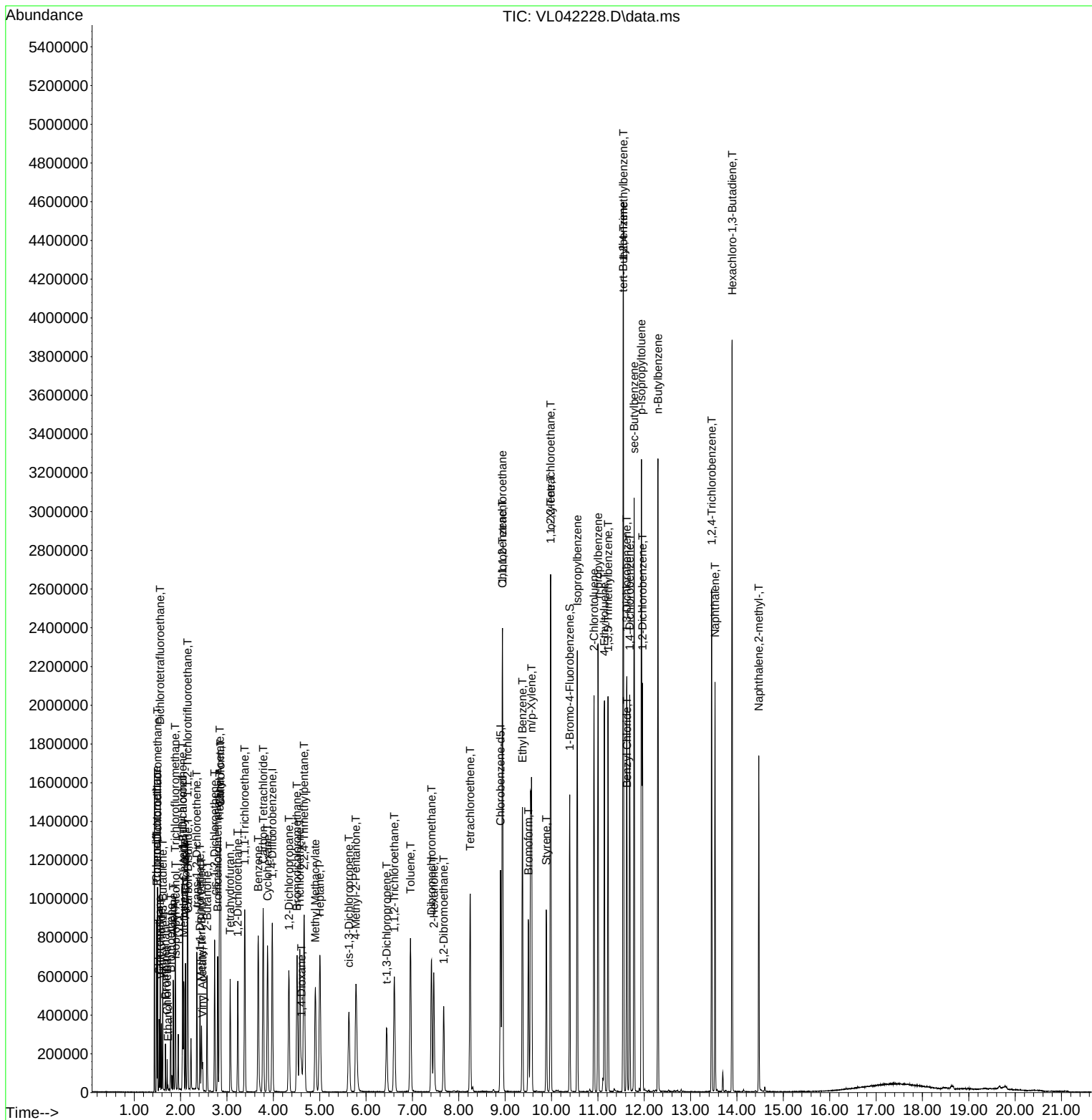
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

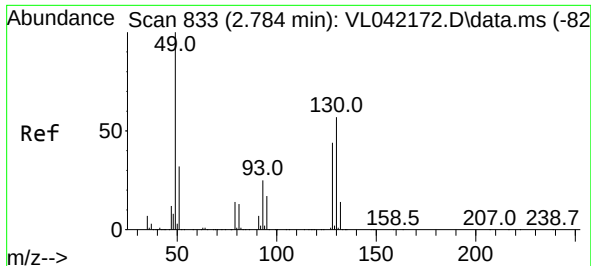
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 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri Mar 28 02:00:52 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.632	75	252032	8.888	ppbv	96
47) 1,1,2-Trichloroethane	6.610	97	200780	10.239	ppbv	95
48) Dibromochloromethane	7.412	129	346881	10.438	ppbv	100
49) Bromoform	9.500	173	296338	9.932	ppbv	100
50) 4-Methyl-2-Pentanone	5.781	43	511581	8.665	ppbv	96
51) 2-Hexanone	7.461	43	412183	8.501	ppbv #	94
52) Tetrachloroethene	8.244	164	168107	8.322	ppbv	96
53) Toluene	6.959	91	560665	9.286	ppbv	99
54) 1,2-Dibromoethane	7.678	107	277561	10.154	ppbv	100
56) 1,1,1,2-Tetrachloroethane	8.943	131	274135	10.722	ppbv	99
57) Chlorobenzene	8.940	112	456787	10.368	ppbv	97
58) Ethyl Benzene	9.374	91	815771	9.888	ppbv	99
59) m/p-Xylene	9.568	91	677509	10.284	ppbv #	30
60) o-Xylene	9.982	91	679193	10.284	ppbv	98
61) Styrene	9.888	104	314809	9.635	ppbv	100
62) Isopropylbenzene	10.555	105	1013803	10.265	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.979	83	427404	10.651	ppbv	100
64) n-propylbenzene	11.005	120	265137	10.429	ppbv	99
65) tert-Butylbenzene	11.545	119	928989	10.171	ppbv	99
66) Benzyl Chloride	11.630	91	72224	7.452	ppbv	99
67) sec-Butylbenzene	11.782	105	1298645	10.229	ppbv	100
69) p-Isopropyltoluene	11.940	119	1128593	10.324	ppbv	99
70) n-Butylbenzene	12.296	91	1165845	10.428	ppbv	100
71) 2-Chlorotoluene	10.918	91	787527	10.274	ppbv	100
72) 4-Ethyltoluene	11.141	105	857021	10.422	ppbv	99
73) 1,3,5-Trimethylbenzene	11.219	105	735306	10.239	ppbv	100
74) 1,2,4-Trimethylbenzene	11.552	105	821957	9.935	ppbv	93
75) 1,3-Dichlorobenzene	11.623	146	485669	10.703	ppbv	99
76) 1,4-Dichlorobenzene	11.685	146	488661	10.821	ppbv	98
77) 1,2-Dichlorobenzene	11.963	146	480373	10.873	ppbv	99
78) Hexachloro-1,3-Butadiene	13.895	225	388827	8.646	ppbv	100
79) Naphthalene	13.526	128	956597	10.570	ppbv	99
80) Naphthalene,2-methyl-	14.471	142	462373	10.419	ppbv	98
81) 1,2,4-Trichlorobenzene	13.455	180	412677	9.886	ppbv	98

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

Quant Time: Apr 08 01:50:24 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Mar 28 02:00:52 2025
Response via : Initial Calibration

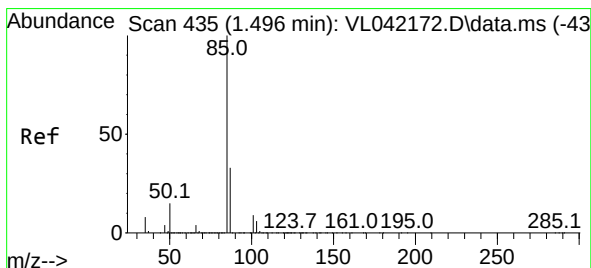
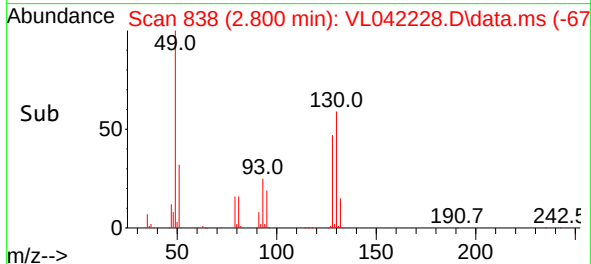
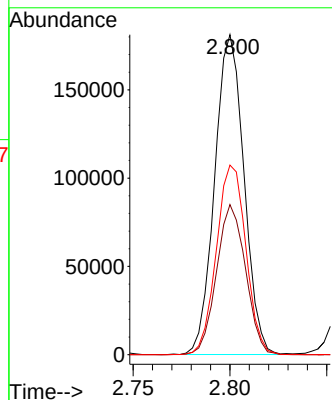
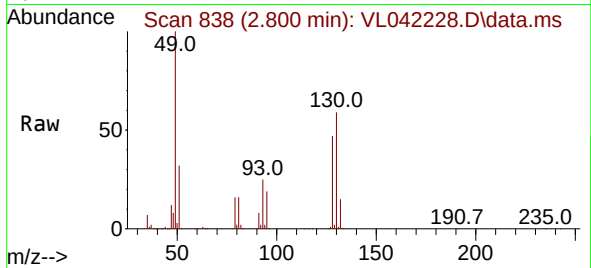




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.800 min Scan# 81
Delta R.T. 0.016 min
Lab File: VL042228.D
Acq: 07 Apr 2025 09:31

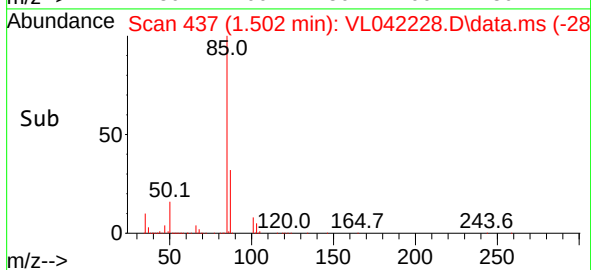
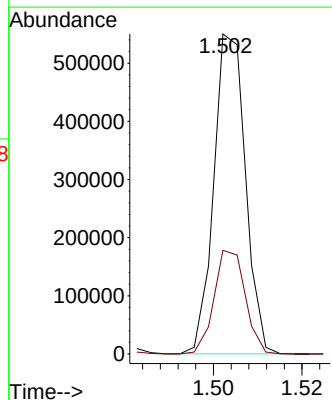
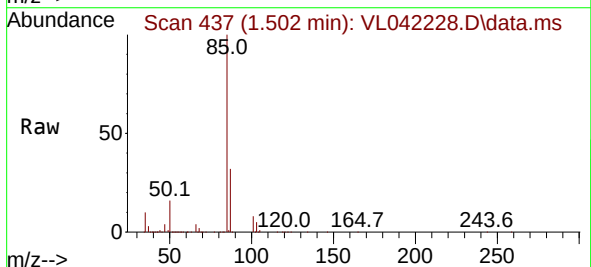
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

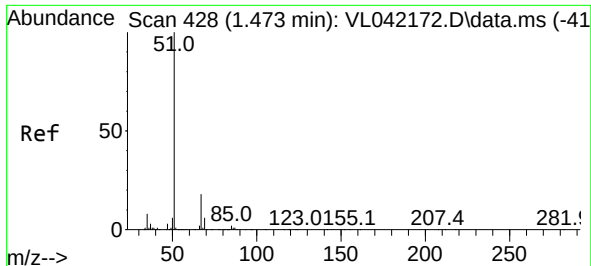
Tgt Ion: 49 Resp: 190462
Ion Ratio Lower Upper
49 100
128 46.4 22.9 68.5
130 59.8 28.8 86.4



#2
Dichlorodifluoromethane
Concen: 9.718 ppbv
RT: 1.502 min Scan# 437
Delta R.T. 0.006 min
Lab File: VL042228.D
Acq: 07 Apr 2025 09:31

Tgt Ion: 85 Resp: 273290
Ion Ratio Lower Upper
85 100
87 32.4 26.1 39.1

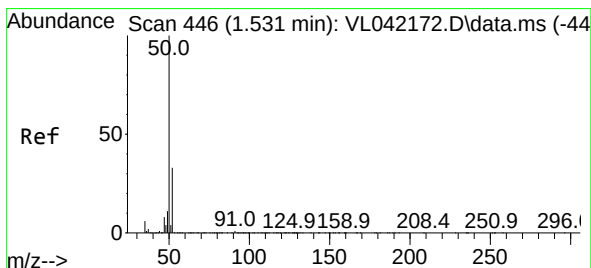
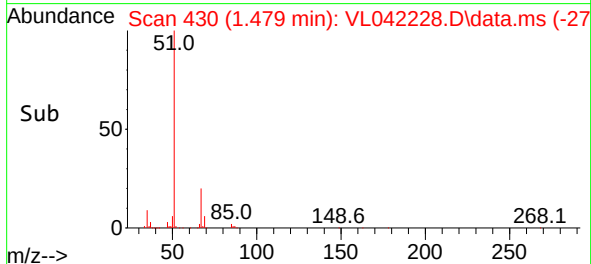
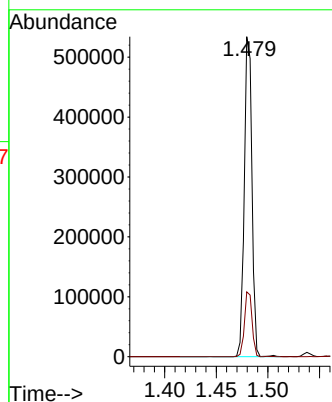
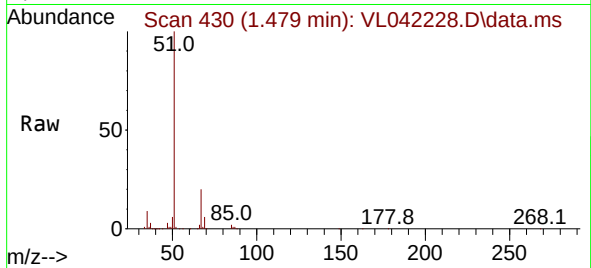




#3
Chlorodifluoromethane
Concen: 9.530 ppbv
RT: 1.479 min Scan# 41
Delta R.T. 0.006 min
Lab File: VL042228.D
Acq: 07 Apr 2025 09:31

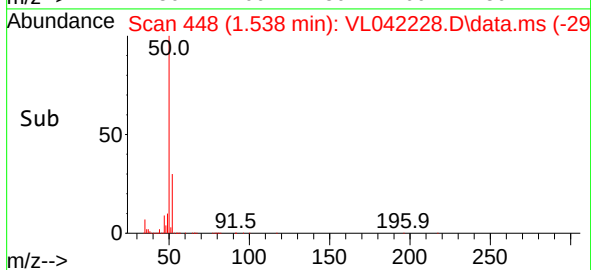
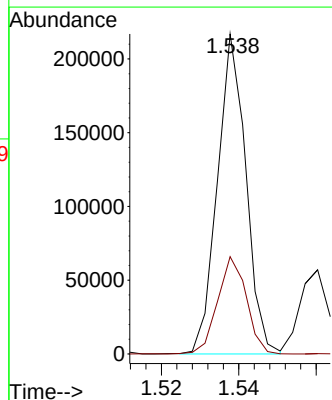
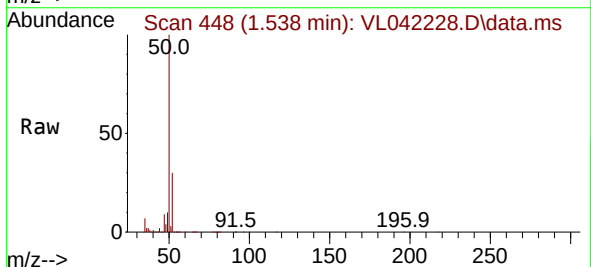
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

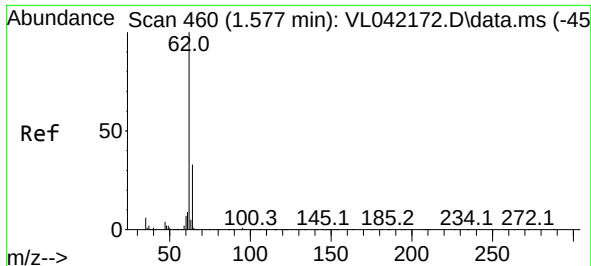
Tgt Ion: 51 Resp: 273791
Ion Ratio Lower Upper
51 100
67 20.2 15.0 22.6



#4
Chloromethane
Concen: 9.649 ppbv
RT: 1.538 min Scan# 448
Delta R.T. 0.006 min
Lab File: VL042228.D
Acq: 07 Apr 2025 09:31

Tgt Ion: 50 Resp: 110890
Ion Ratio Lower Upper
50 100
52 30.4 26.1 39.1

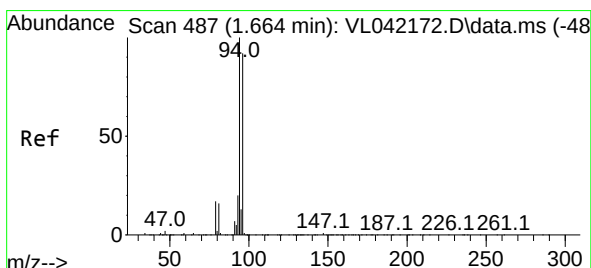
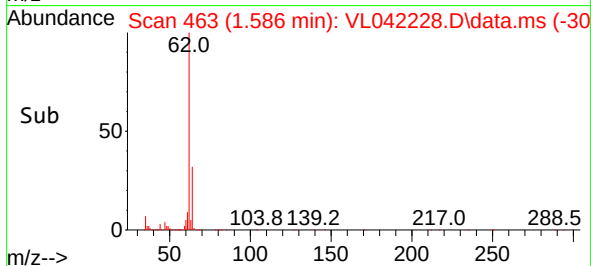
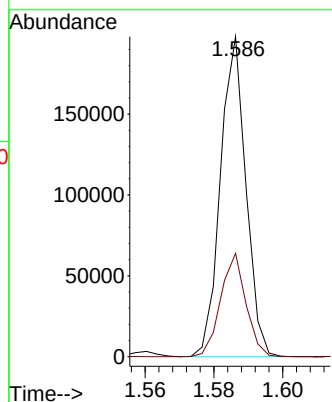
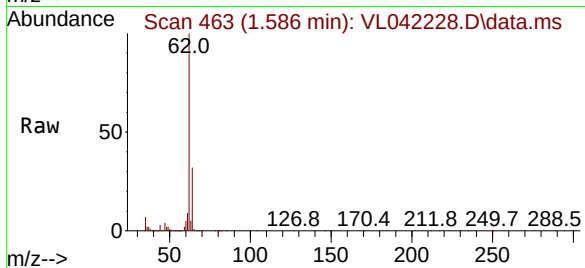




#5
 Vinyl Chloride
 Concen: 8.363 ppbv
 RT: 1.586 min Scan# 410
 Delta R.T. 0.010 min
 Lab File: VL042228.D
 Acq: 07 Apr 2025 09:31

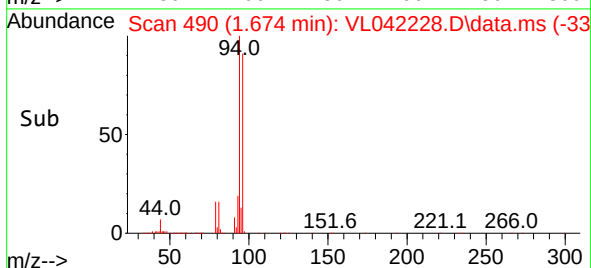
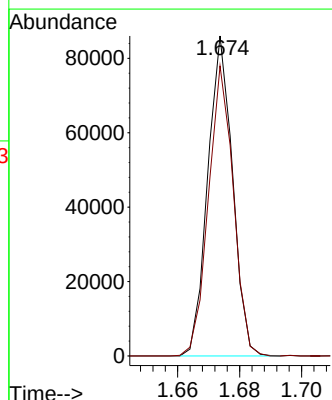
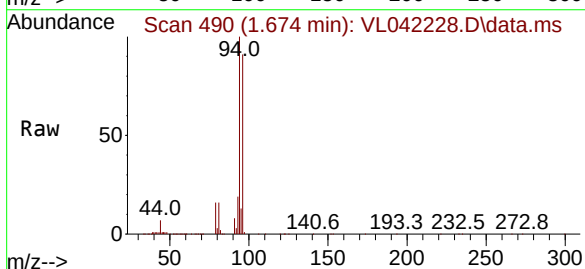
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDCCC010

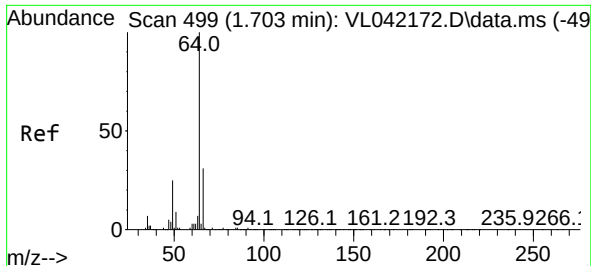
Tgt Ion: 62 Resp: 101851
 Ion Ratio Lower Upper
 62 100
 64 32.3 26.6 40.0



#6
 Bromomethane
 Concen: 9.162 ppbv
 RT: 1.674 min Scan# 490
 Delta R.T. 0.010 min
 Lab File: VL042228.D
 Acq: 07 Apr 2025 09:31

Tgt Ion: 94 Resp: 47719
 Ion Ratio Lower Upper
 94 100
 96 90.6 73.1 109.7

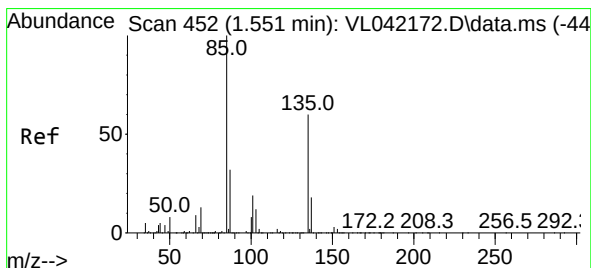
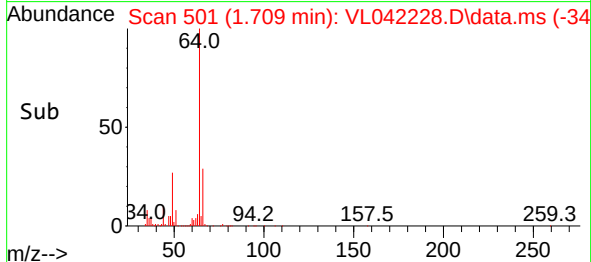
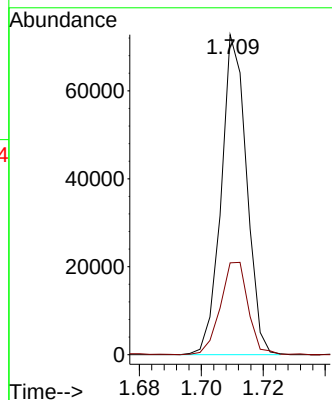
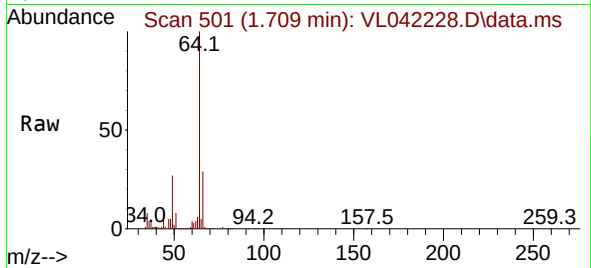




#7
Chloroethane
Concen: 8.972 ppbv
RT: 1.709 min Scan# 501
Delta R.T. 0.006 min
Lab File: VL042228.D
Acq: 07 Apr 2025 09:31

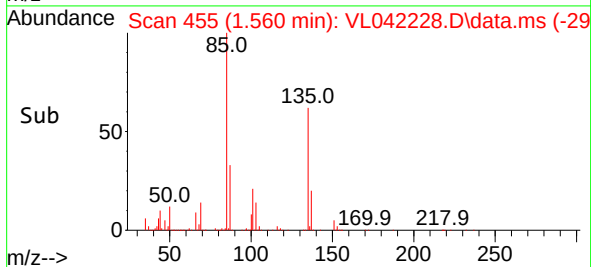
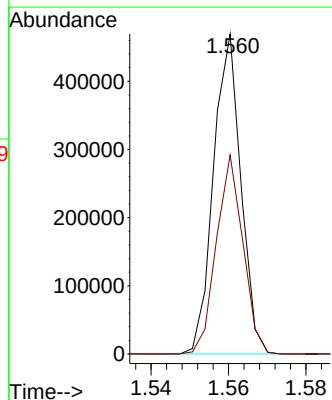
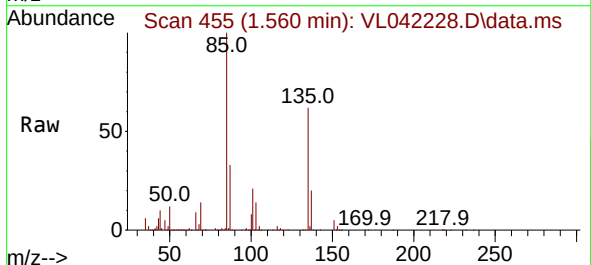
Instrument :
MSVOA_1
ClientSampleId :
VSTDCCC010

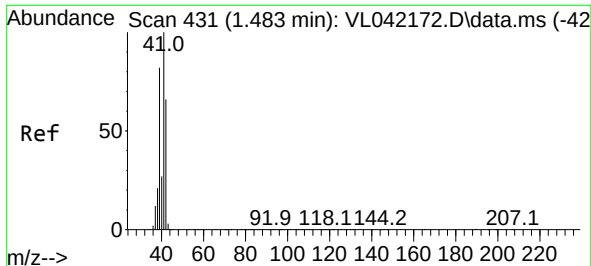
Tgt Ion: 64 Resp: 41389
Ion Ratio Lower Upper
64 100
66 28.7 25.2 37.8



#8
Dichlorotetrafluoroethane
Concen: 9.627 ppbv
RT: 1.560 min Scan# 455
Delta R.T. 0.010 min
Lab File: VL042228.D
Acq: 07 Apr 2025 09:31

Tgt Ion: 85 Resp: 230557
Ion Ratio Lower Upper
85 100
135 60.4 52.4 78.6





#9

Propene

Concen: 7.852 ppbv

RT: 1.489 min Scan# 41

Delta R.T. 0.006 min

Lab File: VL042228.D

Acq: 07 Apr 2025 09:31

Instrument :

MSVOA_1

ClientSampleId :

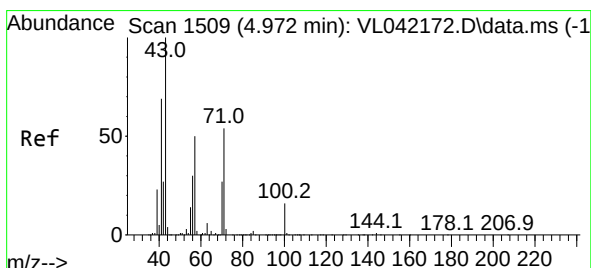
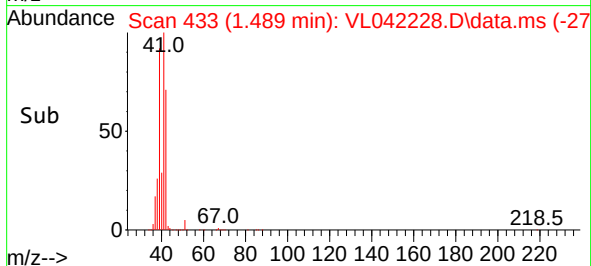
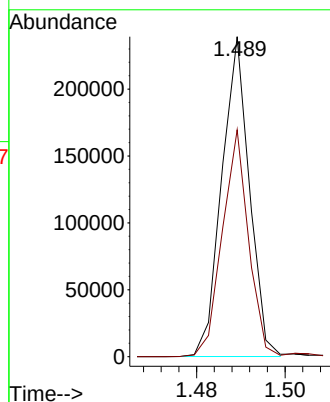
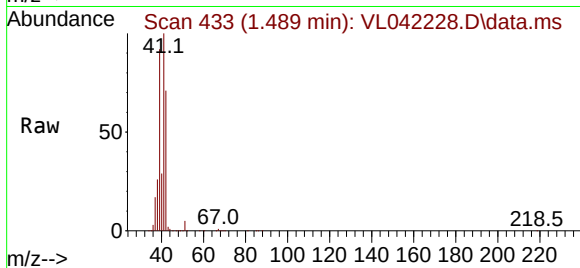
VSTDCCC010

Tgt Ion: 41 Resp: 103393

Ion Ratio Lower Upper

41 100

42 68.7 55.4 83.2



#10

Heptane

Concen: 4.523 ppbv

RT: 5.001 min Scan# 1518

Delta R.T. 0.029 min

Lab File: VL042228.D

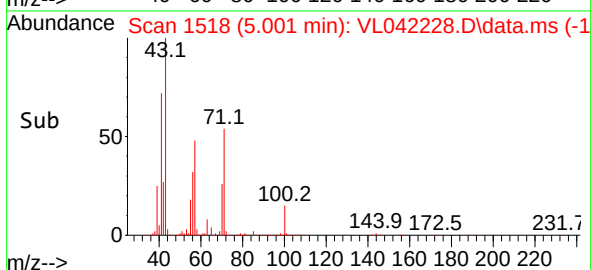
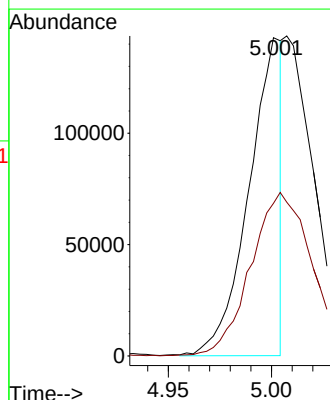
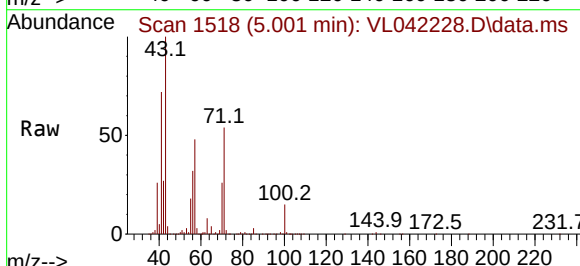
Acq: 07 Apr 2025 09:31

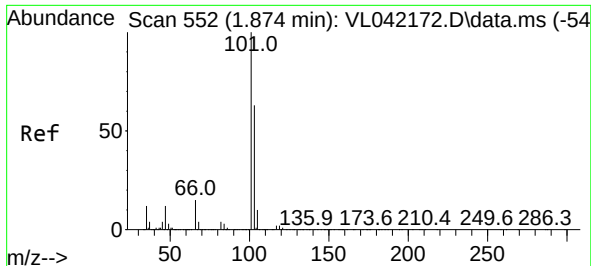
Tgt Ion: 43 Resp: 158430

Ion Ratio Lower Upper

43 100

57 0.0 39.4 59.2#

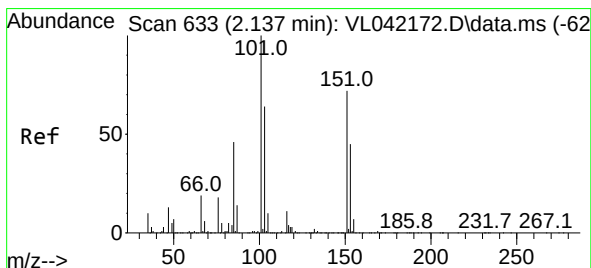
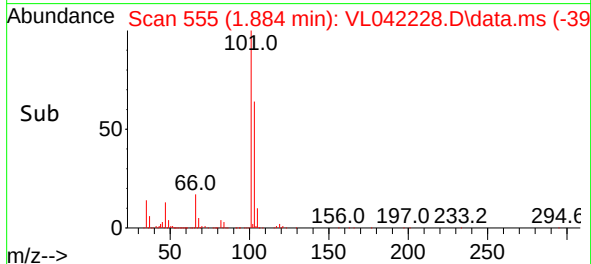
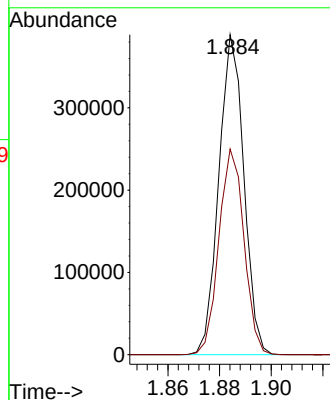
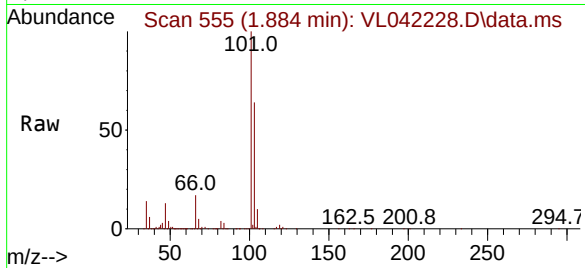




#11
 Trichlorofluoromethane
 Concen: 9.563 ppbv
 RT: 1.884 min Scan# 511
 Delta R.T. 0.010 min
 Lab File: VL042228.D
 Acq: 07 Apr 2025 09:31

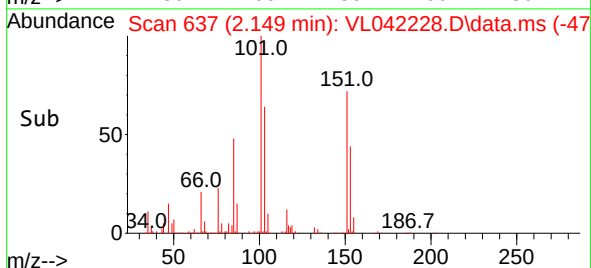
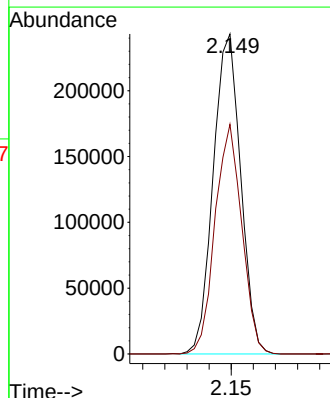
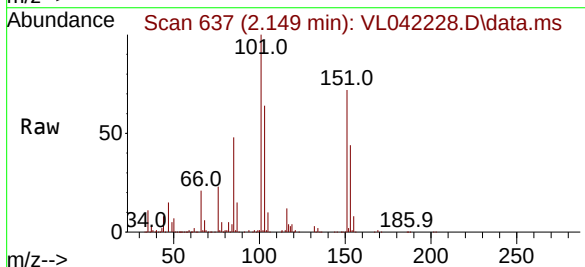
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

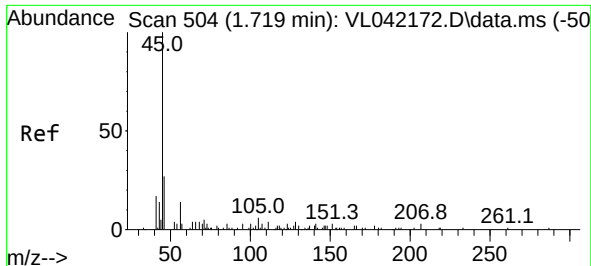
Tgt Ion:101 Resp: 261667
 Ion Ratio Lower Upper
 101 100
 103 64.2 50.2 75.2



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 9.331 ppbv
 RT: 2.149 min Scan# 637
 Delta R.T. 0.013 min
 Lab File: VL042228.D
 Acq: 07 Apr 2025 09:31

Tgt Ion:101 Resp: 209865
 Ion Ratio Lower Upper
 101 100
 151 69.9 57.1 85.7

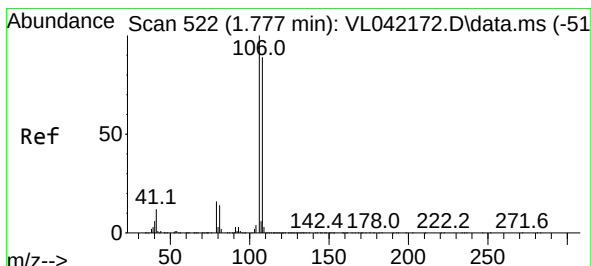
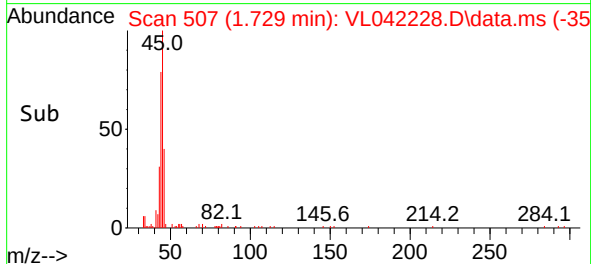
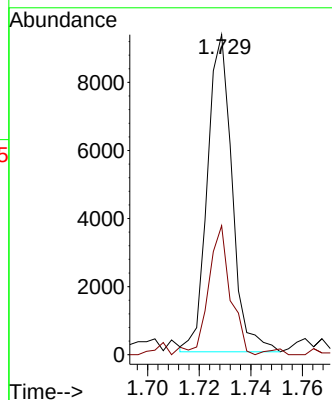
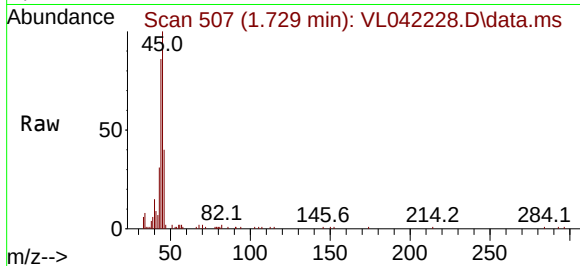




#13
Ethanol
Concen: 4.979 ppbv
RT: 1.729 min Scan# 504
Delta R.T. 0.010 min
Lab File: VL042228.D
Acq: 07 Apr 2025 09:31

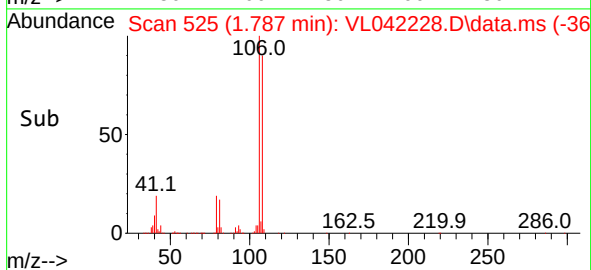
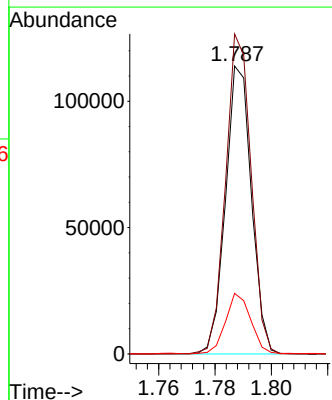
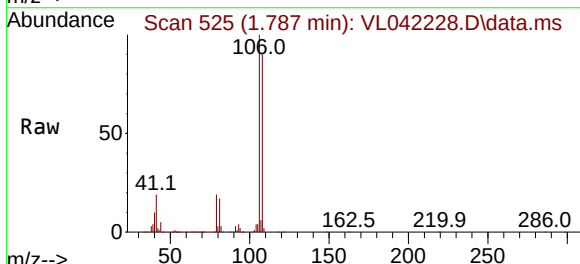
Instrument :
MSVOA_1
ClientSampleId :
VSTDCCC010

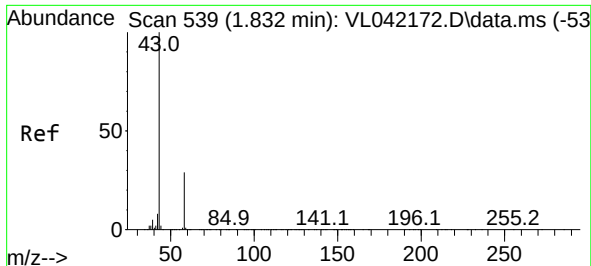
Tgt Ion: 45 Resp: 6198
Ion Ratio Lower Upper
45 100
46 39.4 20.2 80.8



#14
Bromoethene
Concen: 8.465 ppbv
RT: 1.787 min Scan# 525
Delta R.T. 0.010 min
Lab File: VL042228.D
Acq: 07 Apr 2025 09:31

Tgt Ion: 108 Resp: 72937
Ion Ratio Lower Upper
108 100
106 109.6 86.8 130.2
79 20.9 15.0 22.6

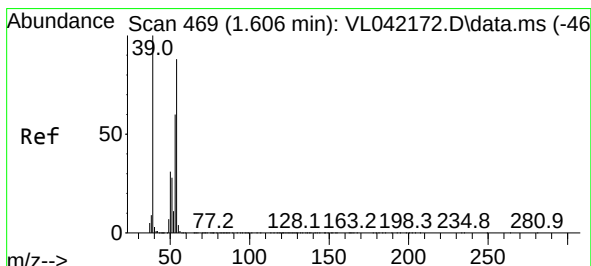
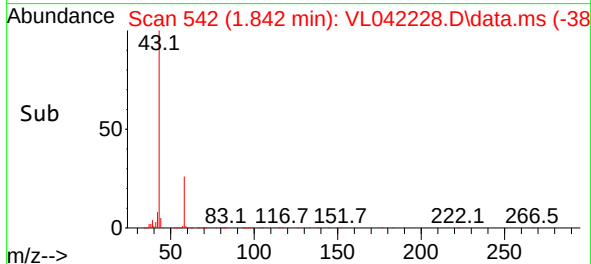
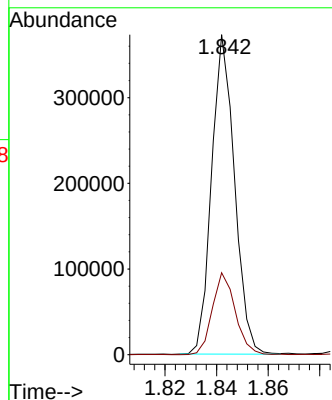
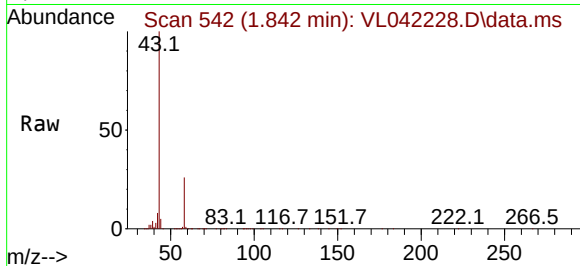




#15
Acetone
Concen: 8.621 ppbv
RT: 1.842 min Scan# 54
Delta R.T. 0.010 min
Lab File: VL042228.D
Acq: 07 Apr 2025 09:31

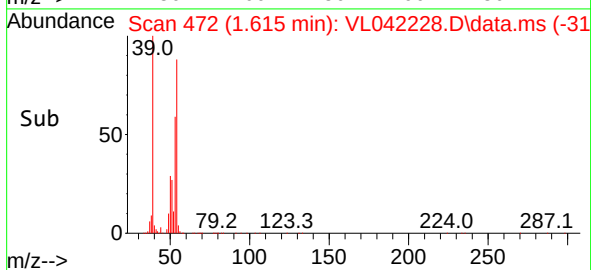
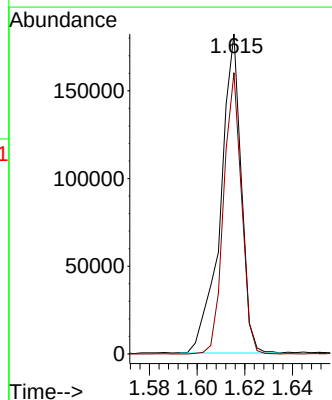
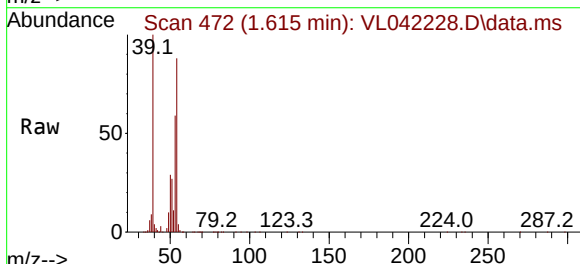
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

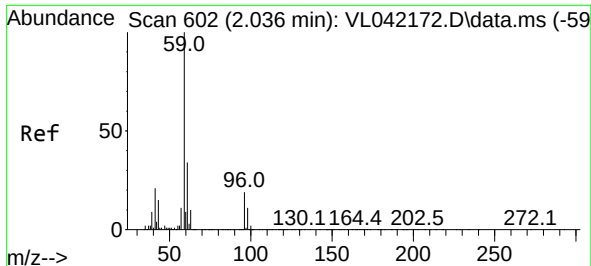
Tgt Ion: 43 Resp: 229629
Ion Ratio Lower Upper
43 100
58 25.9 23.2 34.8



#16
1,3-Butadiene
Concen: 8.419 ppbv
RT: 1.615 min Scan# 472
Delta R.T. 0.010 min
Lab File: VL042228.D
Acq: 07 Apr 2025 09:31

Tgt Ion: 39 Resp: 109521
Ion Ratio Lower Upper
39 100
54 75.8 60.7 91.1





#17

tert-Butyl alcohol

Concen: 8.492 ppbv

RT: 2.049 min Scan# 606

Delta R.T. 0.013 min

Lab File: VL042228.D

Acq: 07 Apr 2025 09:31

Instrument :

MSVOA_L

ClientSampleId :

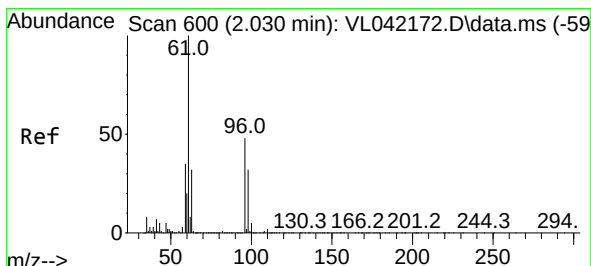
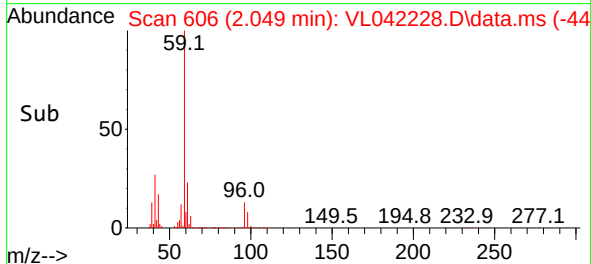
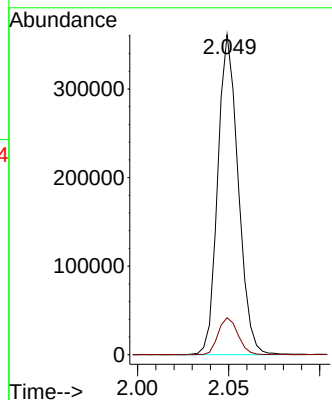
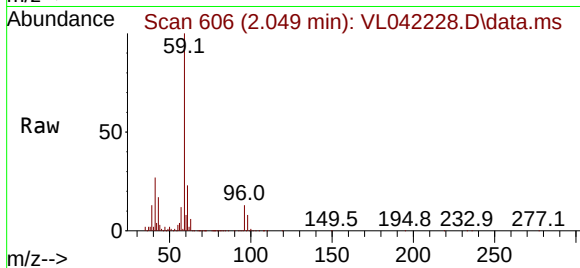
VSTDCCC010

Tgt Ion: 59 Resp: 281754

Ion Ratio Lower Upper

59 100

57 11.3 8.9 13.3



#18

1,1-Dichloroethene

Concen: 8.960 ppbv

RT: 2.043 min Scan# 604

Delta R.T. 0.013 min

Lab File: VL042228.D

Acq: 07 Apr 2025 09:31

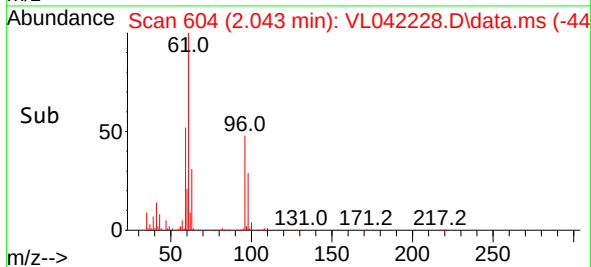
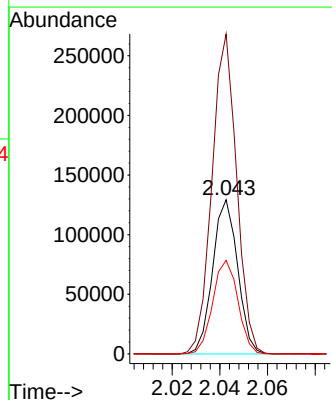
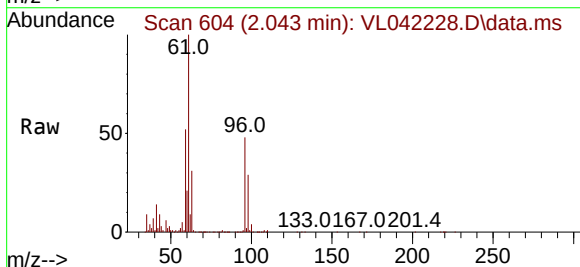
Tgt Ion: 96 Resp: 94213

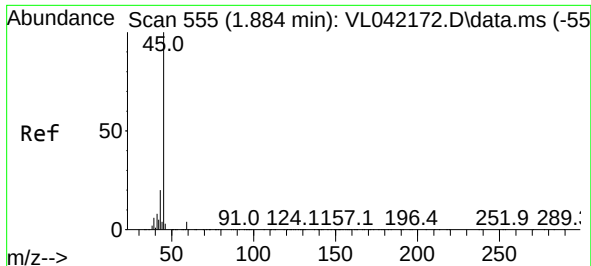
Ion Ratio Lower Upper

96 100

61 207.3 167.6 251.4

98 60.7 53.5 80.3

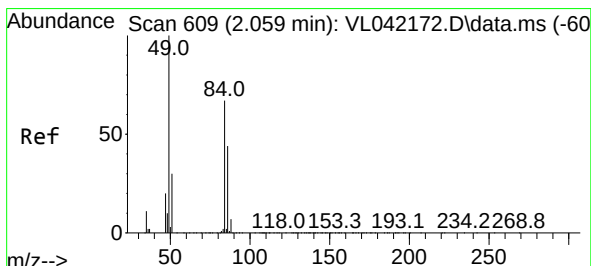
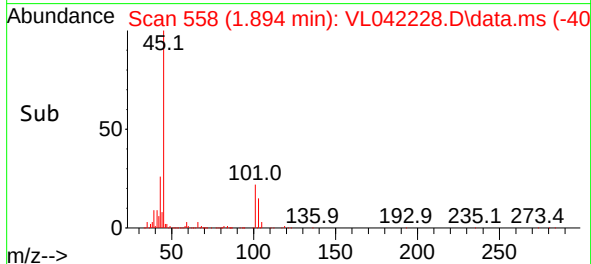
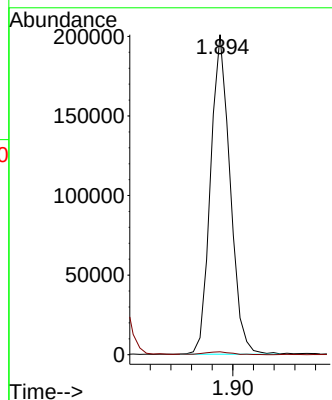
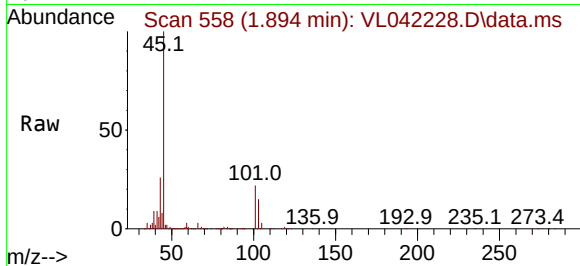




#19
Isopropyl Alcohol
Concen: 8.793 ppbv
RT: 1.894 min Scan# 511
Delta R.T. 0.010 min
Lab File: VL042228.D
Acq: 07 Apr 2025 09:31

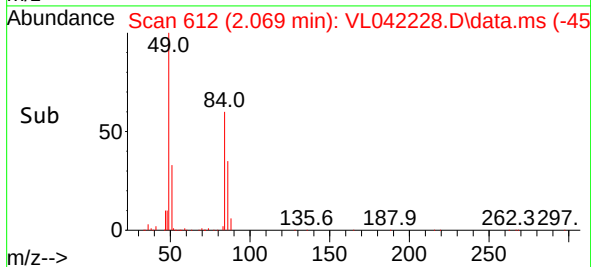
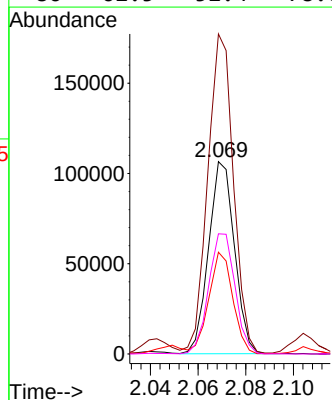
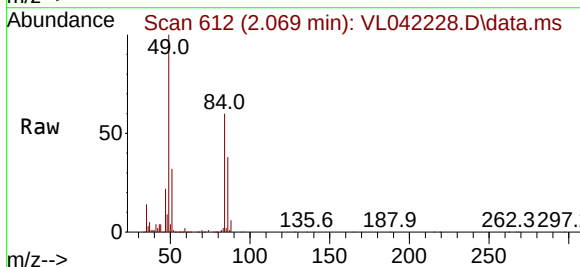
Instrument :
MSVOA_1
ClientSampleId :
VSTDCCC010

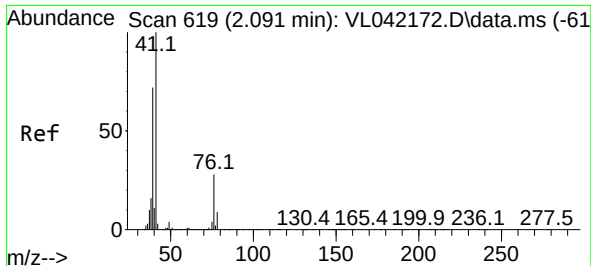
Tgt Ion: 45 Resp: 132147
Ion Ratio Lower Upper
45 100
58 45.1 36.9 55.3



#20
Methylene Chloride
Concen: 8.103 ppbv
RT: 2.069 min Scan# 612
Delta R.T. 0.010 min
Lab File: VL042228.D
Acq: 07 Apr 2025 09:31

Tgt Ion: 84 Resp: 80384
Ion Ratio Lower Upper
84 100
49 165.1 120.2 180.4
51 52.7 37.4 56.0
86 62.5 52.4 78.6

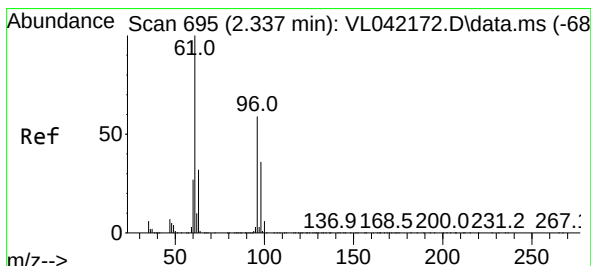
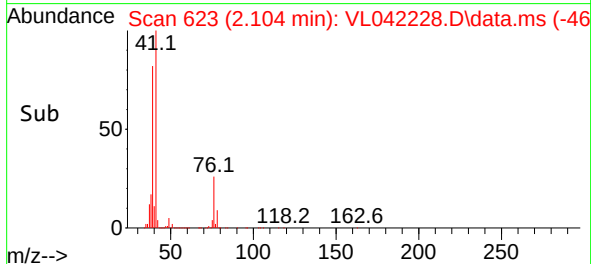
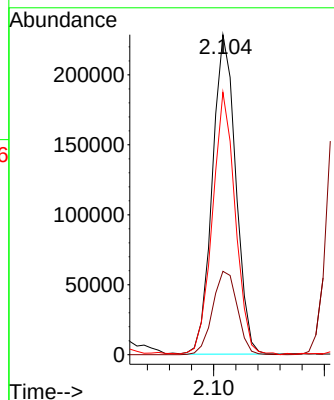
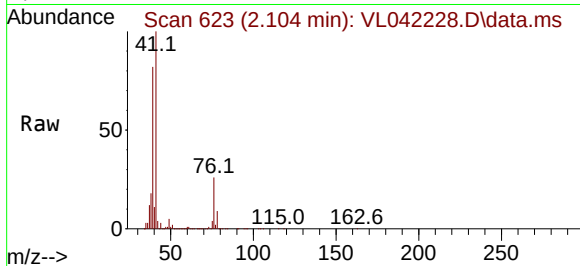




#21
 Allyl Chloride
 Concen: 8.938 ppbv
 RT: 2.104 min Scan# 619
 Delta R.T. 0.013 min
 Lab File: VL042228.D
 Acq: 07 Apr 2025 09:31

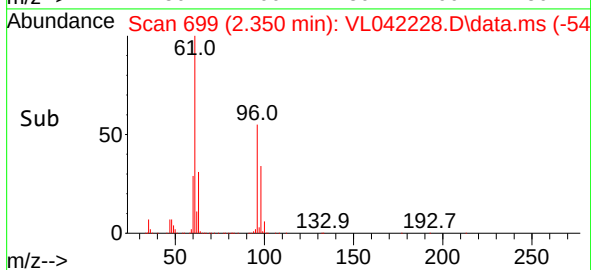
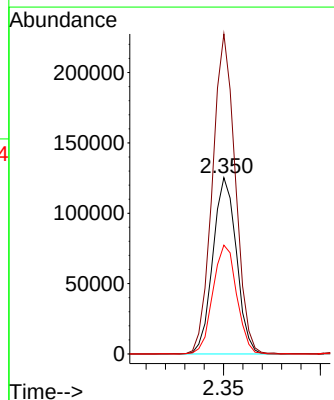
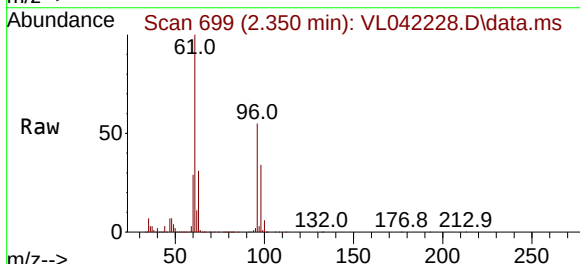
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

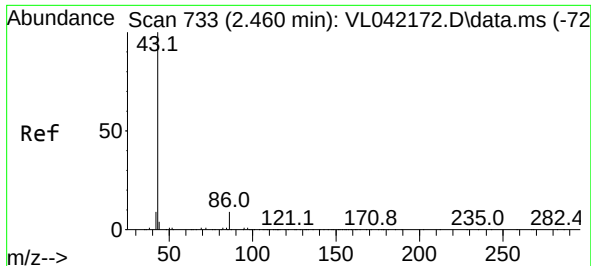
Tgt Ion: 41 Resp: 167907
 Ion Ratio Lower Upper
 41 100
 76 27.5 24.1 36.1
 39 79.2 61.1 91.7



#22
 trans-1,2-Dichloroethene
 Concen: 8.705 ppbv
 RT: 2.350 min Scan# 699
 Delta R.T. 0.013 min
 Lab File: VL042228.D
 Acq: 07 Apr 2025 09:31

Tgt Ion: 96 Resp: 105790
 Ion Ratio Lower Upper
 96 100
 61 181.4 136.6 204.8
 98 61.7 49.4 74.2



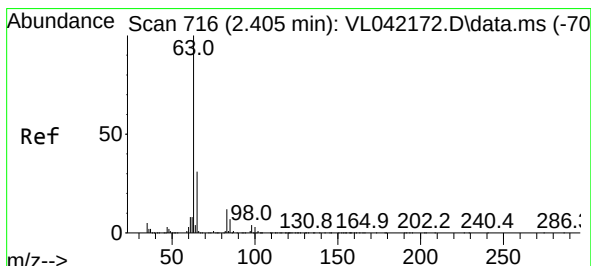
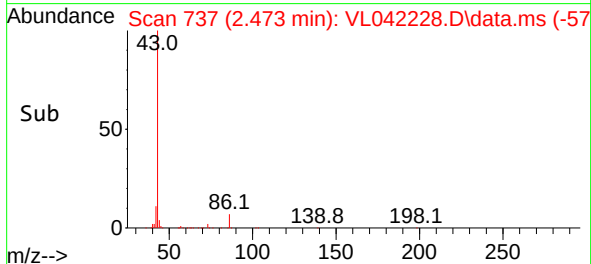
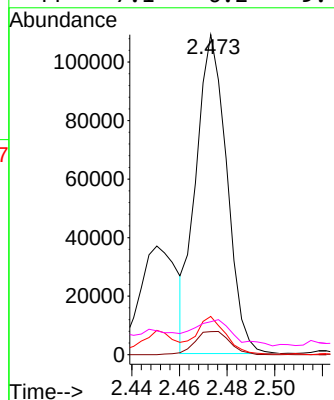
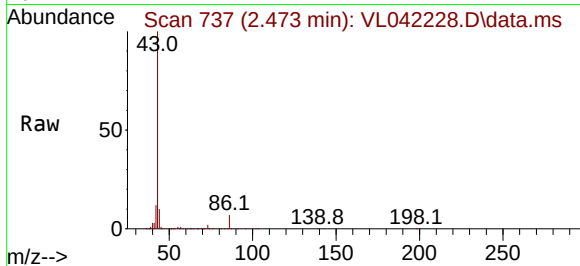


#23
 Vinyl Acetate
 Concen: 8.497 ppbv
 RT: 2.473 min Scan# 71
 Delta R.T. 0.013 min
 Lab File: VL042228.D
 Acq: 07 Apr 2025 09:31

Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDCCC010

Tgt Ion: 43 Resp: 97959

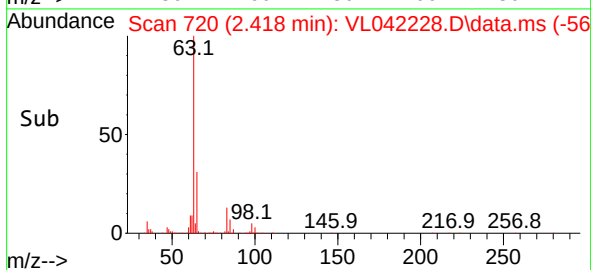
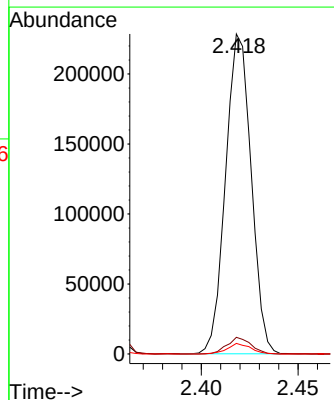
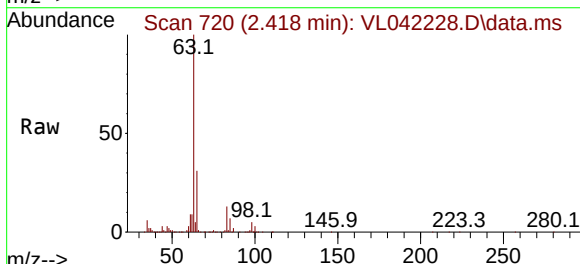
Ion	Ratio	Lower	Upper
43	100		
86	7.2	5.5	8.3
42	11.7	8.6	13.0
44	7.1	6.2	9.4

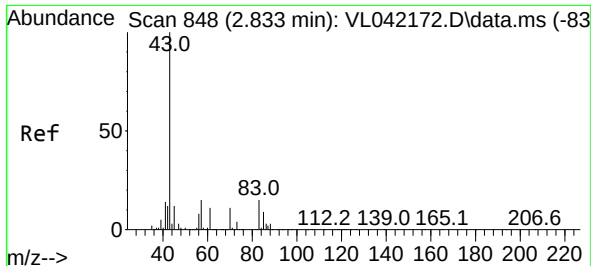


#24
 1,1-Dichloroethane
 Concen: 9.328 ppbv
 RT: 2.418 min Scan# 720
 Delta R.T. 0.013 min
 Lab File: VL042228.D
 Acq: 07 Apr 2025 09:31

Tgt Ion: 63 Resp: 210138

Ion	Ratio	Lower	Upper
63	100		
98	5.2	2.3	6.8
100	3.3	1.6	4.7





#25

Ethyl Acetate

Concen: 9.143 ppbv

RT: 2.849 min Scan# 8

Delta R.T. 0.016 min

Lab File: VL042228.D

Acq: 07 Apr 2025 09:31

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tgt Ion: 43 Resp: 632090

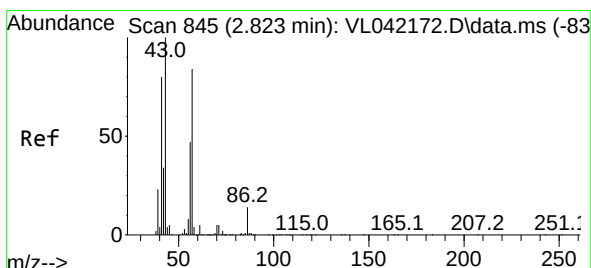
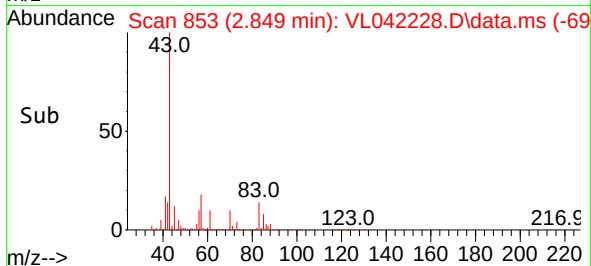
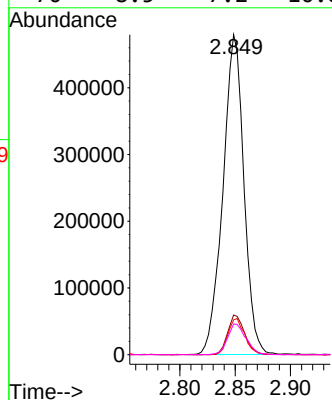
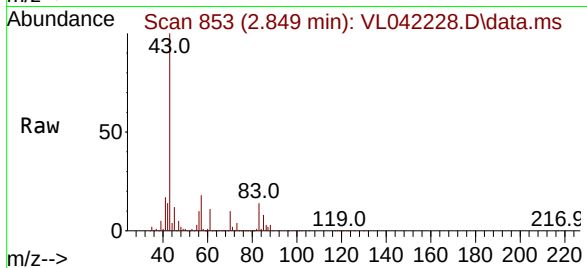
Ion Ratio Lower Upper

43 100

45 10.2 8.2 12.2

61 9.1 7.3 10.9

70 8.5 7.2 10.8



#26

Hexane

Concen: 9.046 ppbv

RT: 2.839 min Scan# 850

Delta R.T. 0.016 min

Lab File: VL042228.D

Acq: 07 Apr 2025 09:31

Tgt Ion: 57 Resp: 241568

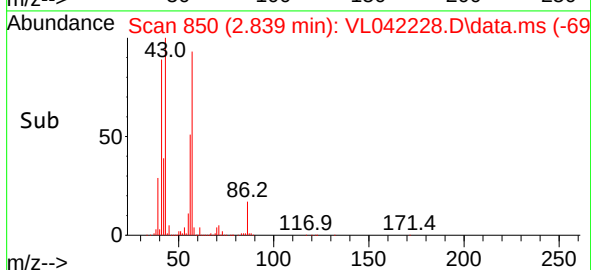
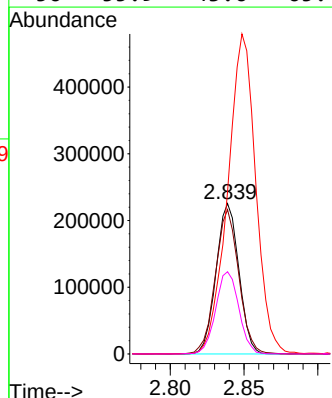
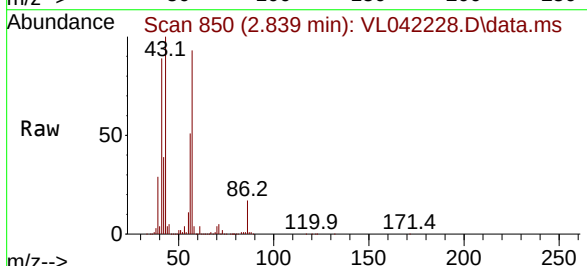
Ion Ratio Lower Upper

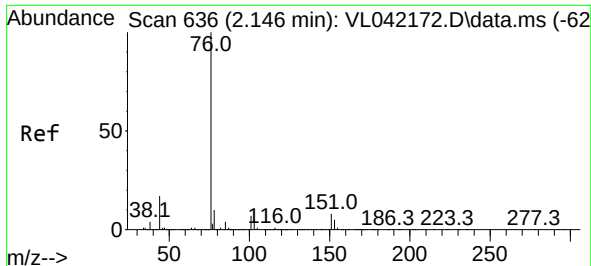
57 100

41 98.7 76.6 114.8

43 263.3 207.8 311.8

56 55.9 43.6 65.4

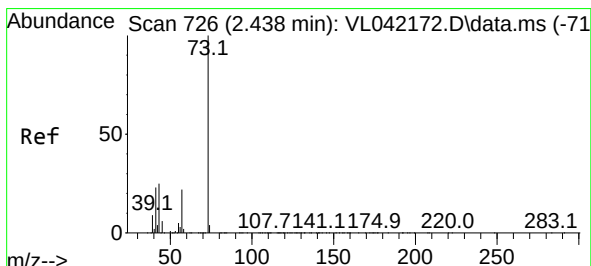
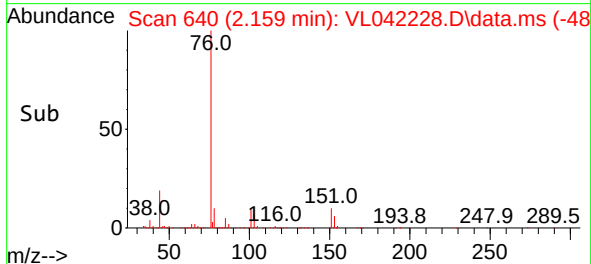
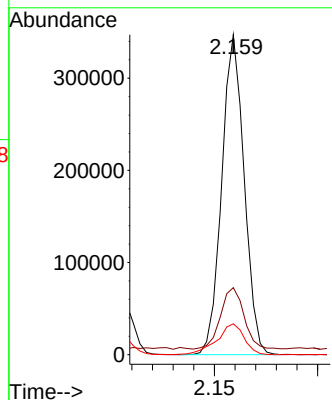
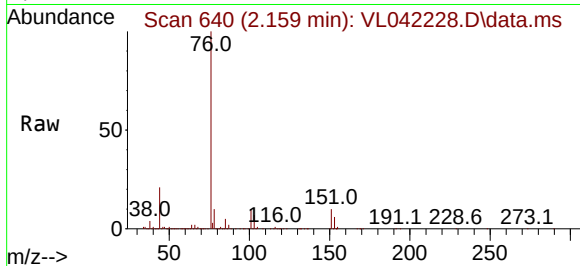




#27
Carbon Disulfide
Concen: 9.155 ppbv
RT: 2.159 min Scan# 640
Delta R.T. 0.013 min
Lab File: VL042228.D
Acq: 07 Apr 2025 09:31

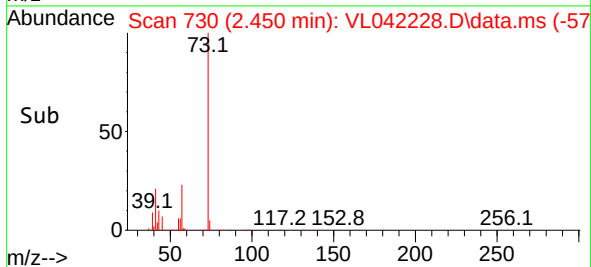
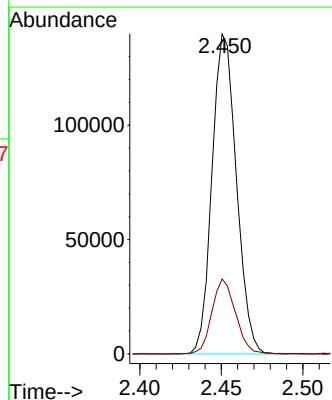
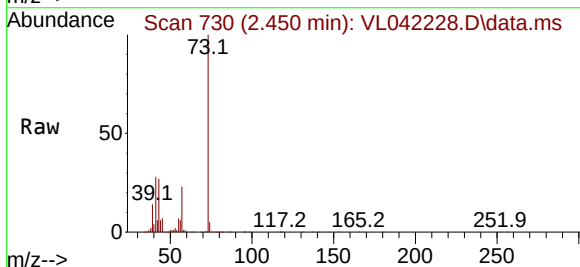
Instrument :
MSVOA_1
ClientSampleId :
VSTDCCC010

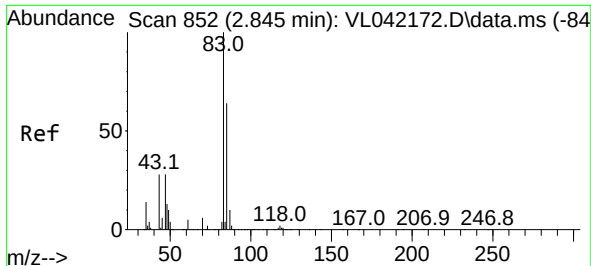
Tgt Ion: 76 Resp: 262150
Ion Ratio Lower Upper
76 100
44 21.2 14.7 22.1
78 11.8 9.3 13.9



#28
Methyl tert-Butyl Ether
Concen: 8.740 ppbv
RT: 2.450 min Scan# 730
Delta R.T. 0.013 min
Lab File: VL042228.D
Acq: 07 Apr 2025 09:31

Tgt Ion: 73 Resp: 145310
Ion Ratio Lower Upper
73 100
57 22.7 20.5 30.7





#29

Chloroform

Concen: 10.178 ppbv

RT: 2.862 min Scan# 81

Delta R.T. 0.016 min

Lab File: VL042228.D

Acq: 07 Apr 2025 09:31

Instrument :

MSVOA_L

ClientSampleId :

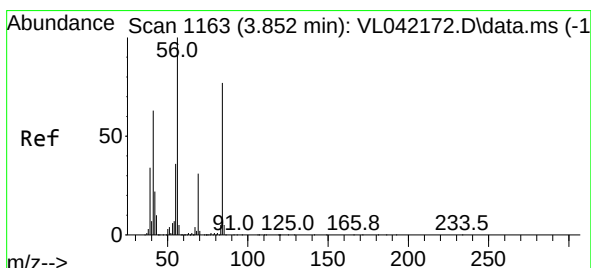
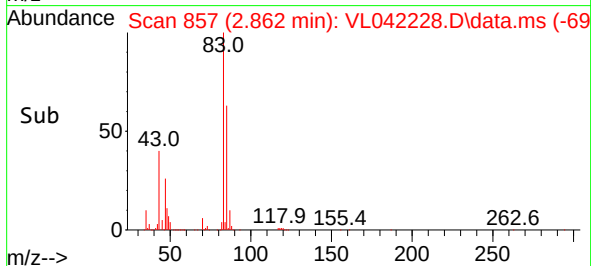
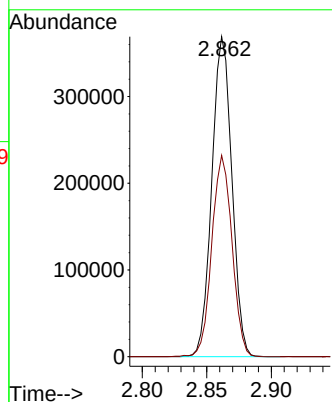
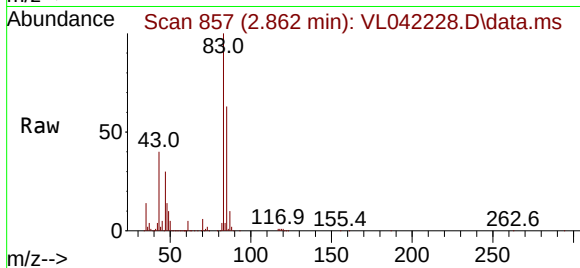
VSTDCCC010

Tgt Ion: 83 Resp: 397772

Ion Ratio Lower Upper

83 100

85 62.9 51.4 77.2



#30

Cyclohexane

Concen: 8.816 ppbv

RT: 3.875 min Scan# 1170

Delta R.T. 0.023 min

Lab File: VL042228.D

Acq: 07 Apr 2025 09:31

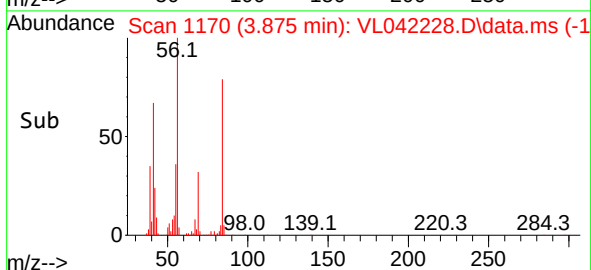
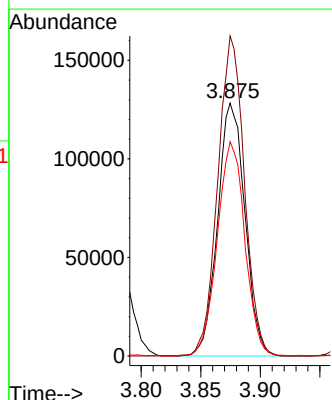
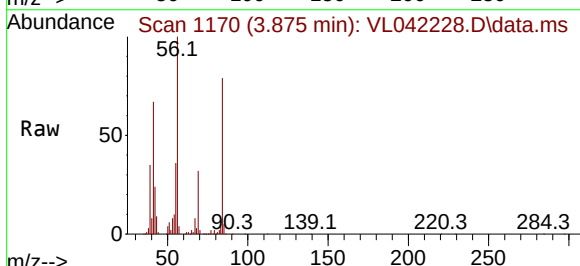
Tgt Ion: 84 Resp: 204416

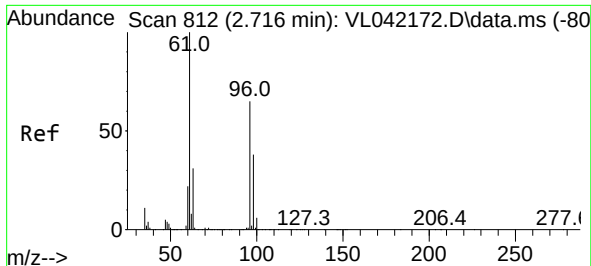
Ion Ratio Lower Upper

84 100

56 123.0 102.8 154.2

41 85.6 66.5 99.7

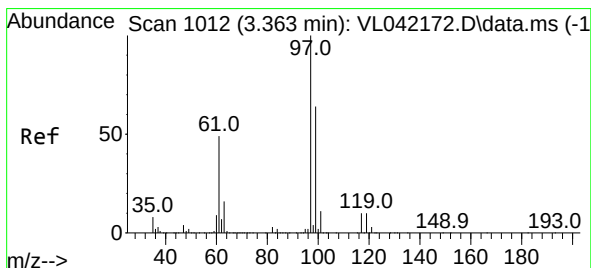
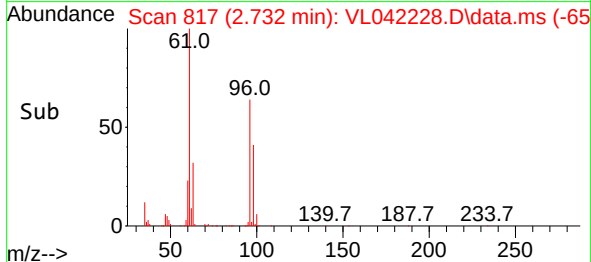
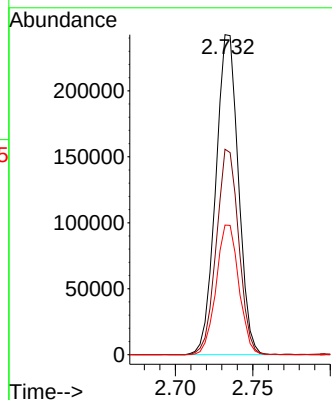
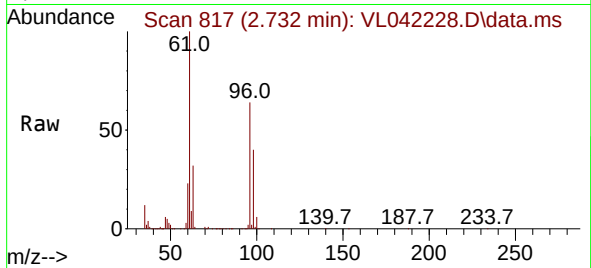




#31
 cis-1,2-Dichloroethene
 Concen: 9.085 ppbv
 RT: 2.732 min Scan# 81
 Delta R.T. 0.016 min
 Lab File: VL042228.D
 Acq: 07 Apr 2025 09:31

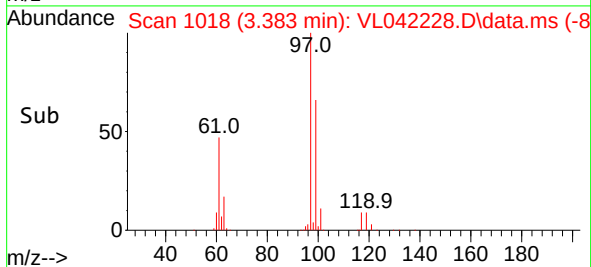
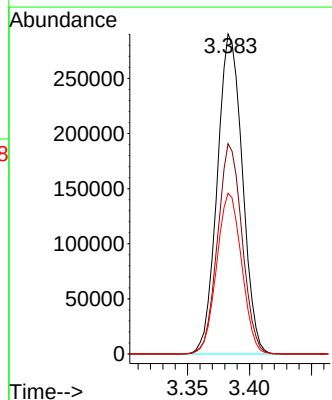
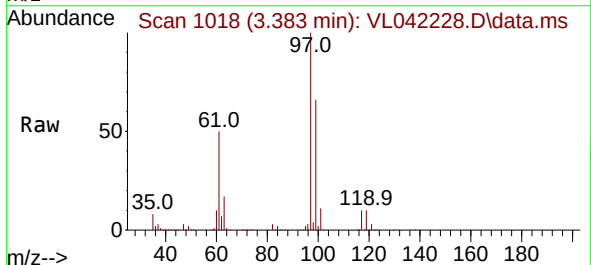
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

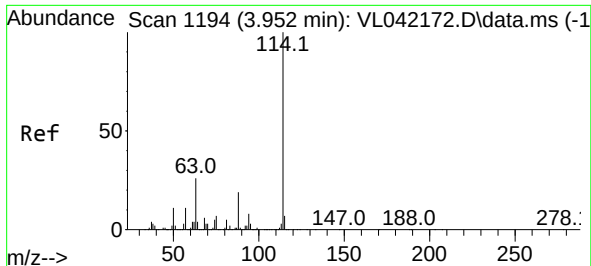
Tgt Ion: 61 Resp: 246306
 Ion Ratio Lower Upper
 61 100
 96 64.2 51.8 77.8
 98 40.5 30.6 46.0



#32
 1,1,1-Trichloroethane
 Concen: 9.162 ppbv
 RT: 3.383 min Scan# 1018
 Delta R.T. 0.019 min
 Lab File: VL042228.D
 Acq: 07 Apr 2025 09:31

Tgt Ion: 97 Resp: 409916
 Ion Ratio Lower Upper
 97 100
 99 64.2 51.5 77.3
 61 50.0 38.7 58.1

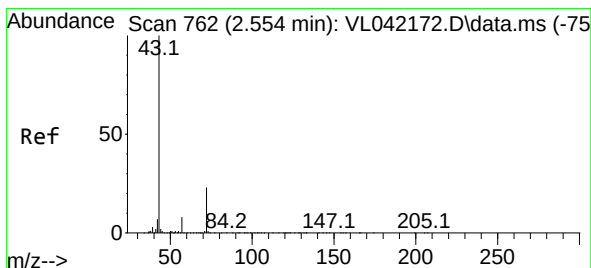
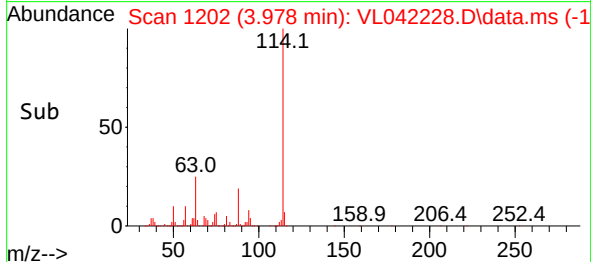
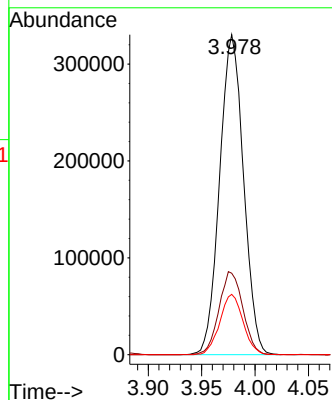
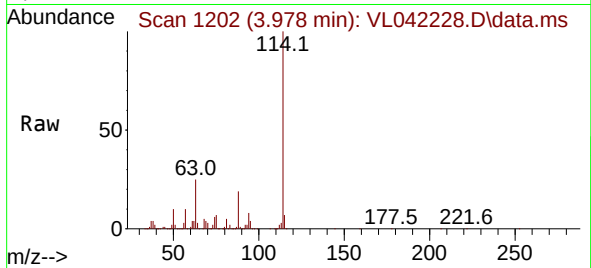




#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.978 min Scan# 1194
Delta R.T. 0.026 min
Lab File: VL042228.D
Acq: 07 Apr 2025 09:31

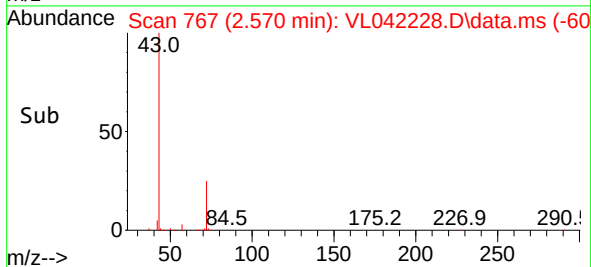
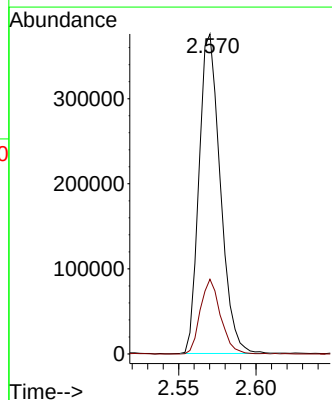
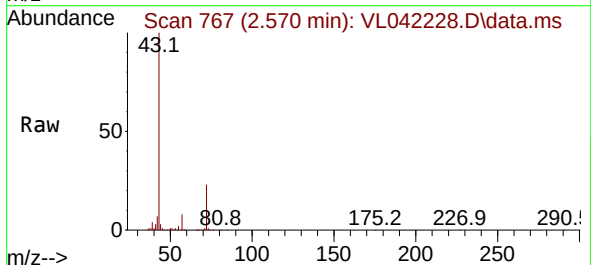
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

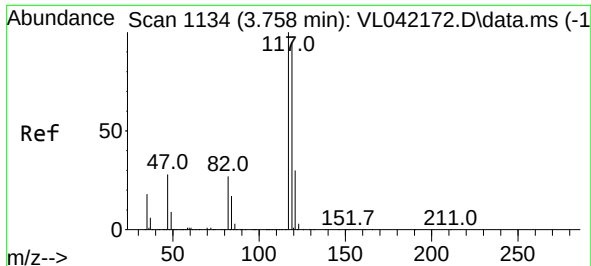
Tgt Ion:114 Resp: 513778
Ion Ratio Lower Upper
114 100
63 25.9 20.7 31.1
88 18.4 15.0 22.4



#34
2-Butanone
Concen: 9.632 ppbv
RT: 2.570 min Scan# 767
Delta R.T. 0.016 min
Lab File: VL042228.D
Acq: 07 Apr 2025 09:31

Tgt Ion: 43 Resp: 358832
Ion Ratio Lower Upper
43 100
72 22.3 18.2 27.2

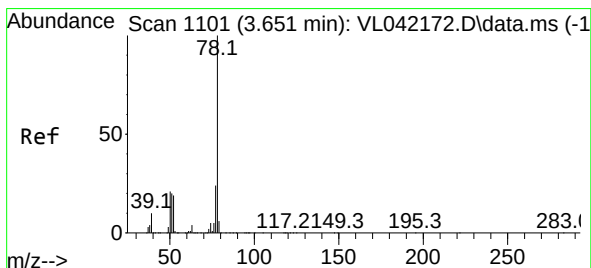
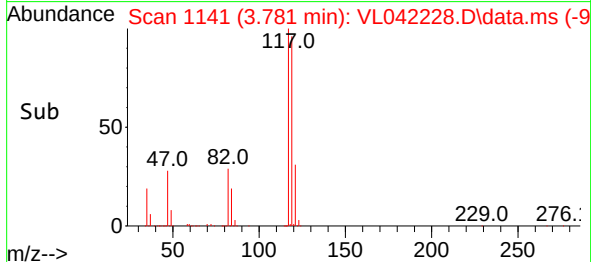
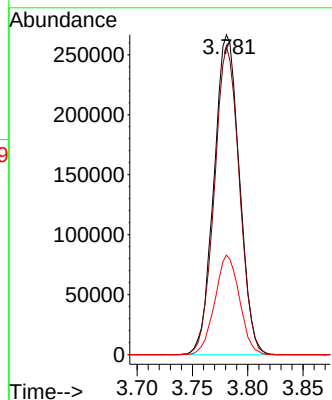
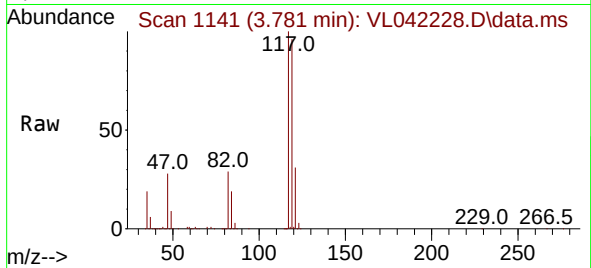




#35
Carbon Tetrachloride
Concen: 10.613 ppbv
RT: 3.781 min Scan# 1114
Delta R.T. 0.023 min
Lab File: VL042228.D
Acq: 07 Apr 2025 09:31

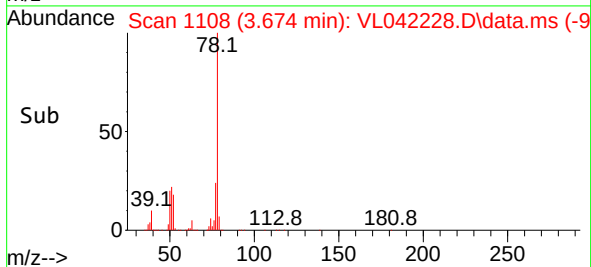
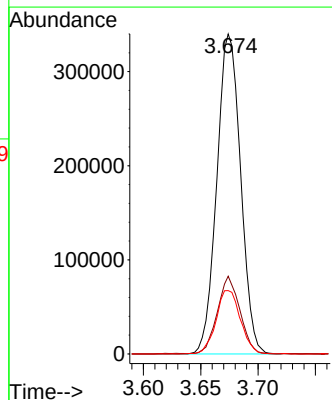
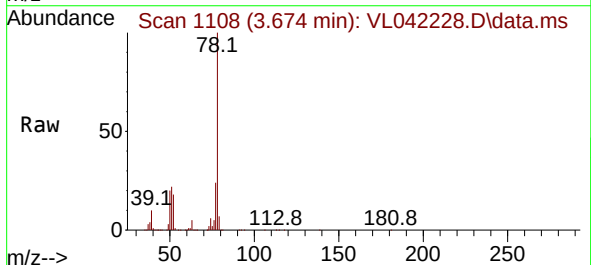
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

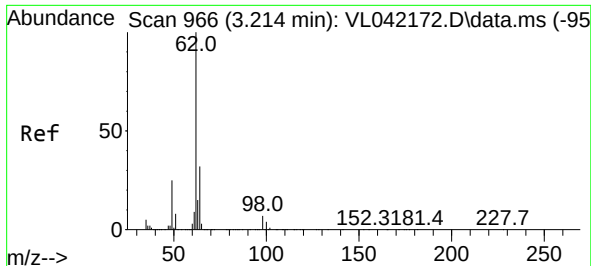
Tgt Ion:117 Resp: 425964
Ion Ratio Lower Upper
117 100
119 96.4 76.2 114.2
121 31.1 24.2 36.4



#36
Benzene
Concen: 9.636 ppbv
RT: 3.674 min Scan# 1108
Delta R.T. 0.023 min
Lab File: VL042228.D
Acq: 07 Apr 2025 09:31

Tgt Ion: 78 Resp: 490813
Ion Ratio Lower Upper
78 100
77 24.2 19.1 28.7
50 19.8 16.6 24.8





#37

1,2-Dichloroethane

Concen: 10.772 ppbv

RT: 3.234 min Scan# 91

Delta R.T. 0.019 min

Lab File: VL042228.D

Acq: 07 Apr 2025 09:31

Instrument :

MSVOA_L

ClientSampleId :

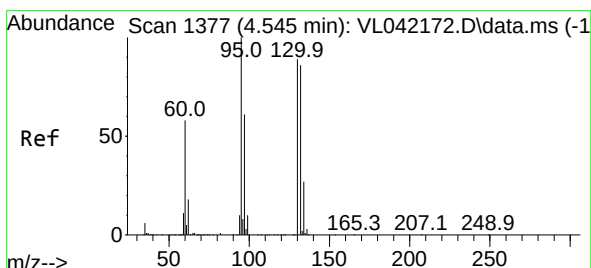
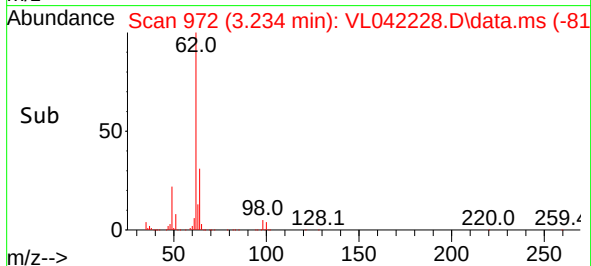
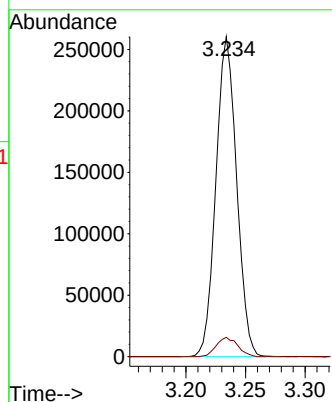
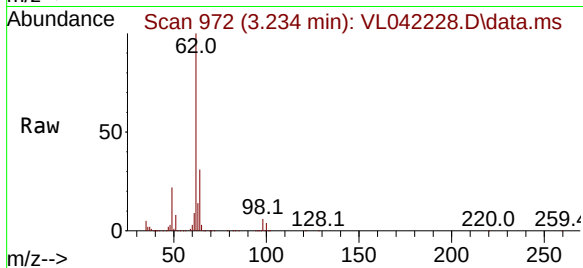
VSTDCCC010

Tgt Ion: 62 Resp: 314121

Ion Ratio Lower Upper

62 100

98 6.2 5.4 8.2



#38

Trichloroethene

Concen: 9.512 ppbv

RT: 4.574 min Scan# 1386

Delta R.T. 0.029 min

Lab File: VL042228.D

Acq: 07 Apr 2025 09:31

Tgt Ion:130 Resp: 202154

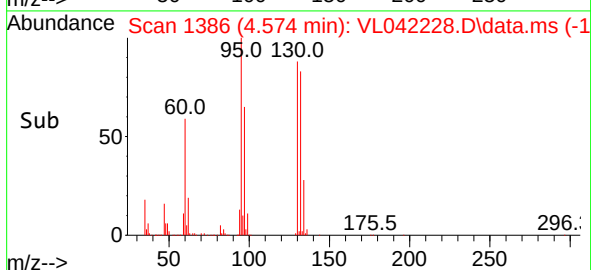
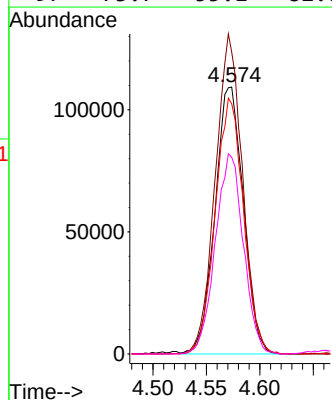
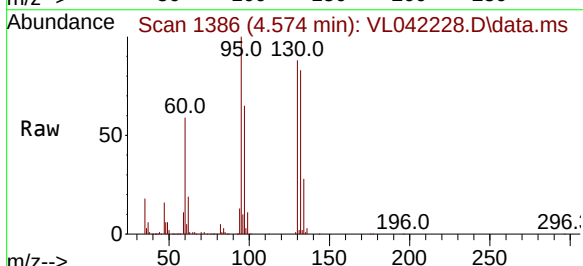
Ion Ratio Lower Upper

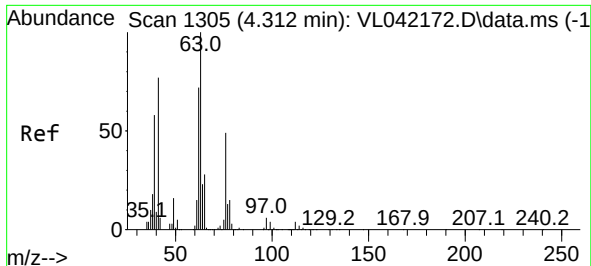
130 100

95 113.0 89.8 134.8

132 93.7 77.4 116.2

97 73.7 55.1 82.7





#39

1,2-Dichloropropane

Concen: 9.472 ppbv

RT: 4.337 min Scan# 11

Delta R.T. 0.026 min

Lab File: VL042228.D

Acq: 07 Apr 2025 09:31

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

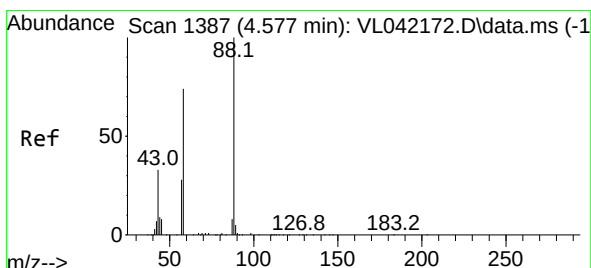
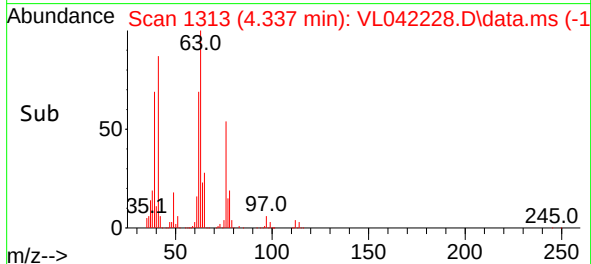
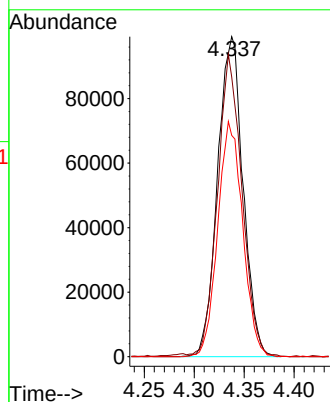
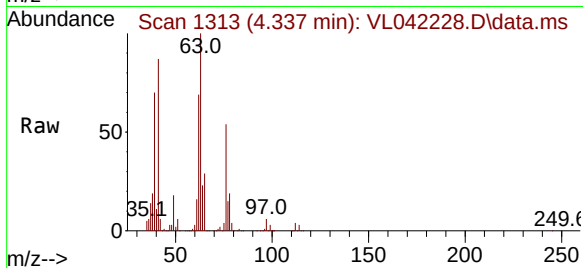
Tgt Ion: 63 Resp: 175704

Ion Ratio Lower Upper

63 100

41 87.2 61.7 92.5

62 69.1 57.6 86.4



#40

1,4-Dioxane

Concen: 8.803 ppbv

RT: 4.606 min Scan# 1396

Delta R.T. 0.029 min

Lab File: VL042228.D

Acq: 07 Apr 2025 09:31

Tgt Ion: 88 Resp: 86664

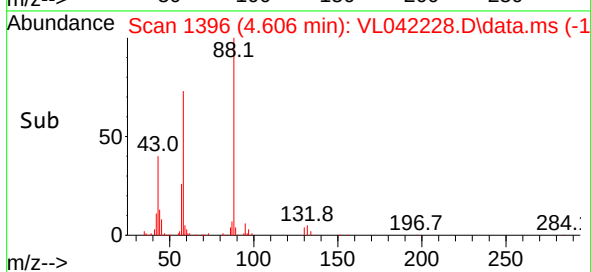
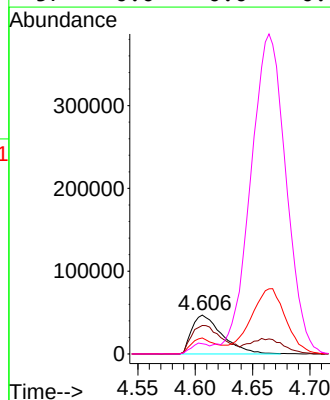
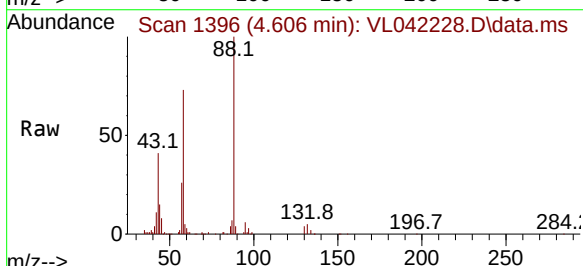
Ion Ratio Lower Upper

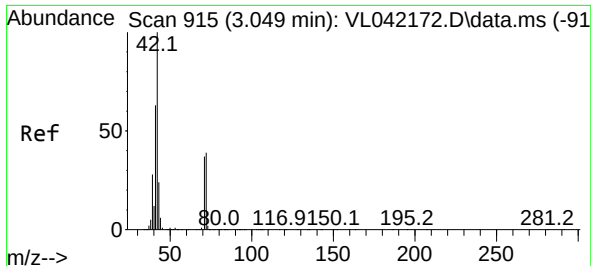
88 100

58 74.4 62.7 94.1

43 37.1 23.0 34.4#

57 0.0 0.0 0.0

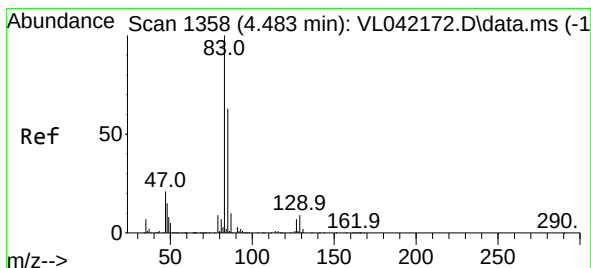
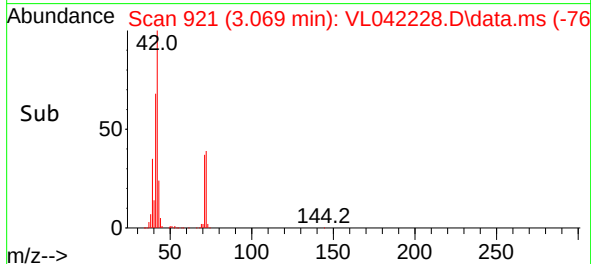
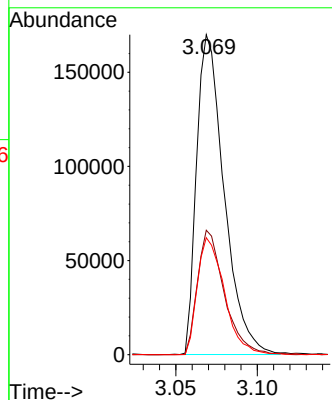
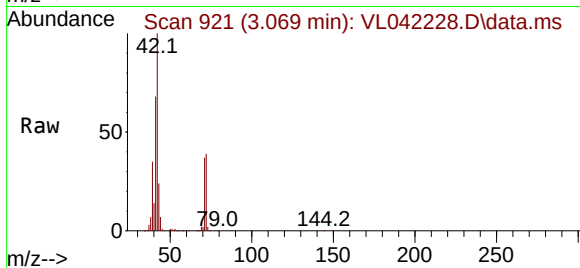




#41
Tetrahydrofuran
Concen: 9.290 ppbv
RT: 3.069 min Scan# 915
Delta R.T. 0.019 min
Lab File: VL042228.D
Acq: 07 Apr 2025 09:31

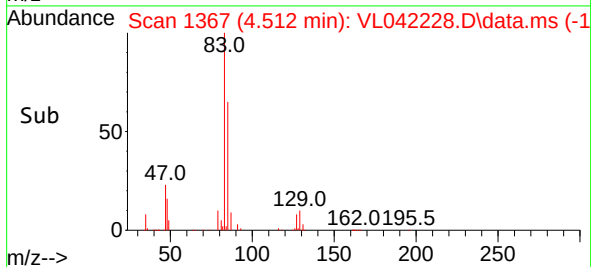
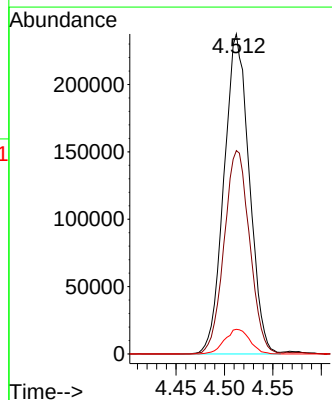
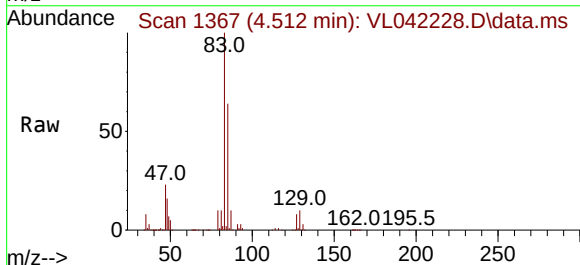
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

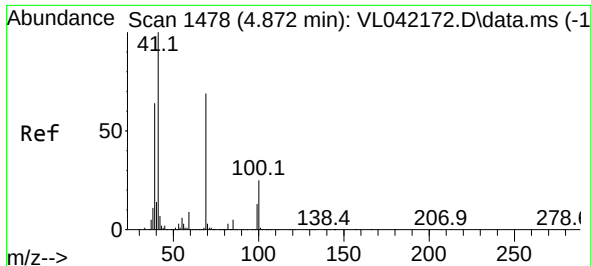
Tgt Ion: 42 Resp: 199313
Ion Ratio Lower Upper
42 100
72 38.0 31.4 47.0
71 36.1 30.2 45.4



#42
Bromodichloromethane
Concen: 10.721 ppbv
RT: 4.512 min Scan# 1367
Delta R.T. 0.029 min
Lab File: VL042228.D
Acq: 07 Apr 2025 09:31

Tgt Ion: 83 Resp: 430997
Ion Ratio Lower Upper
83 100
85 63.6 50.5 75.7
127 7.7 5.9 8.9

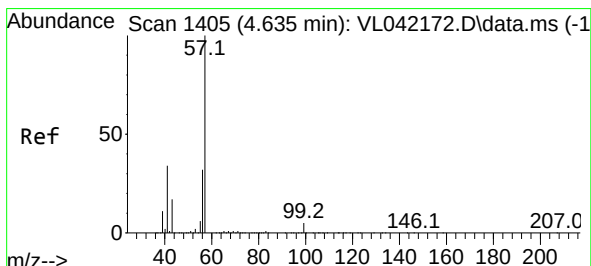
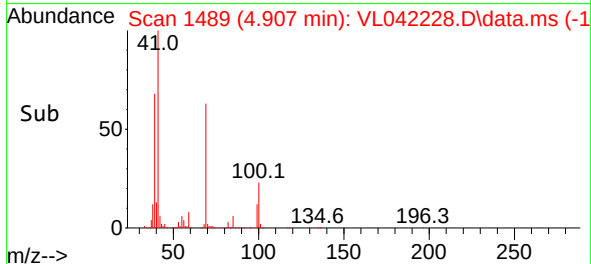
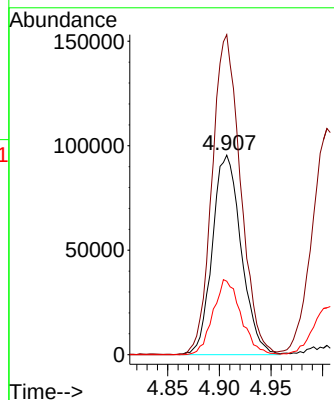
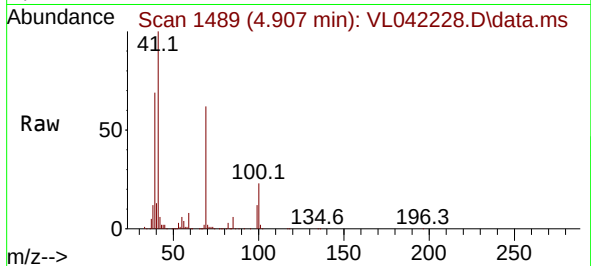




#43
Methyl Methacrylate
Concen: 8.605 ppbv
RT: 4.907 min Scan# 1414
Delta R.T. 0.035 min
Lab File: VL042228.D
Acq: 07 Apr 2025 09:31

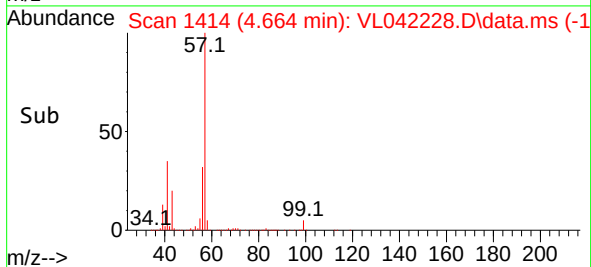
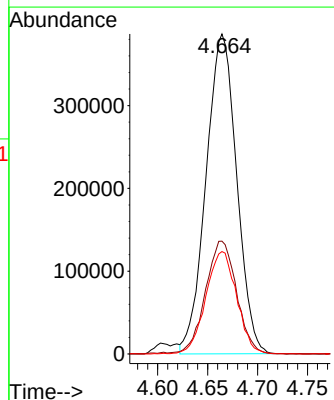
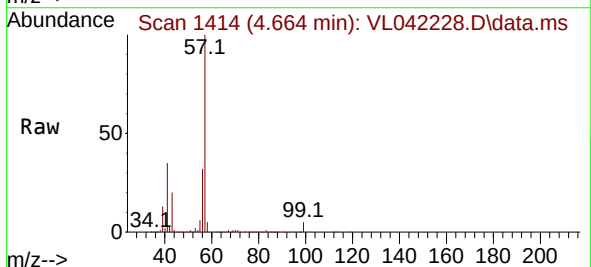
Instrument :
MSVOA_1
ClientSampleId :
VSTDCCC010

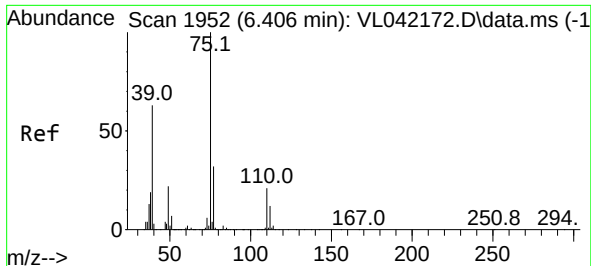
Tgt Ion: 69 Resp: 185545
Ion Ratio Lower Upper
69 100
41 157.6 123.8 185.6
100 36.4 28.4 42.6



#44
2,2,4-Trimethylpentane
Concen: 9.584 ppbv
RT: 4.664 min Scan# 1414
Delta R.T. 0.029 min
Lab File: VL042228.D
Acq: 07 Apr 2025 09:31

Tgt Ion: 57 Resp: 824962
Ion Ratio Lower Upper
57 100
41 36.1 26.8 40.2
56 32.3 25.6 38.4





#45

t-1,3-Dichloropropene

Concen: 8.718 ppbv

RT: 6.444 min Scan# 1952

Delta R.T. 0.039 min

Lab File: VL042228.D

Acq: 07 Apr 2025 09:31

Instrument :

MSVOA_L

ClientSampleId :

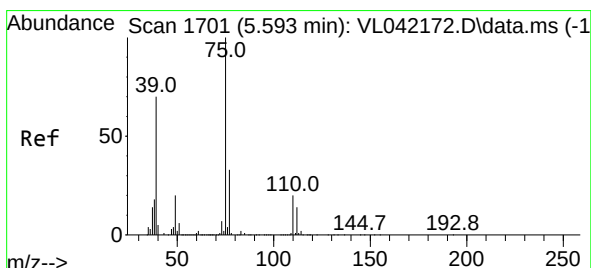
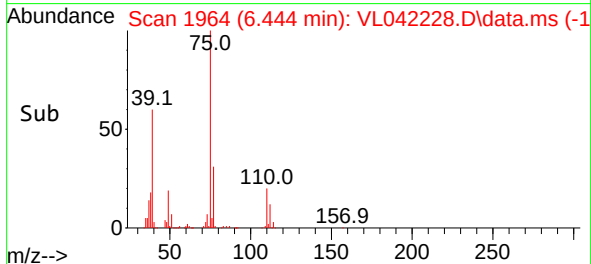
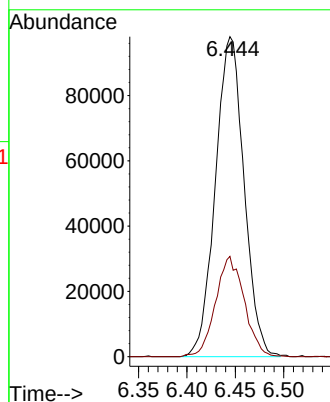
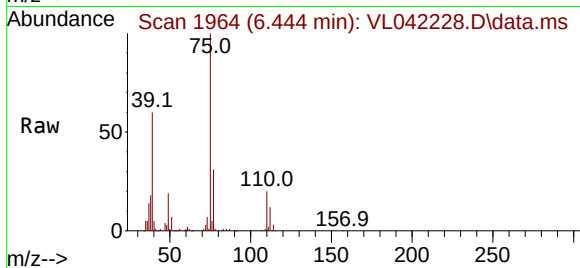
VSTDCCC010

Tgt Ion: 75 Resp: 201676

Ion Ratio Lower Upper

75 100

77 31.4 26.0 39.0



#46

cis-1,3-Dichloropropene

Concen: 8.888 ppbv

RT: 5.632 min Scan# 1713

Delta R.T. 0.039 min

Lab File: VL042228.D

Acq: 07 Apr 2025 09:31

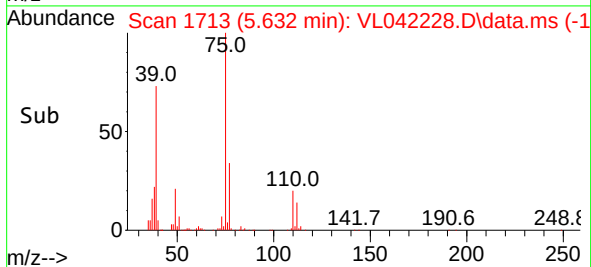
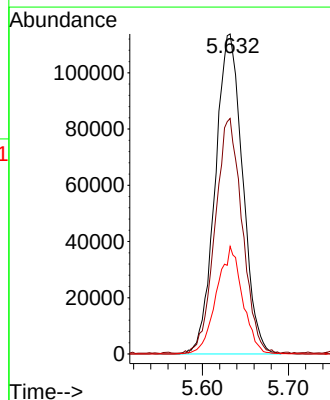
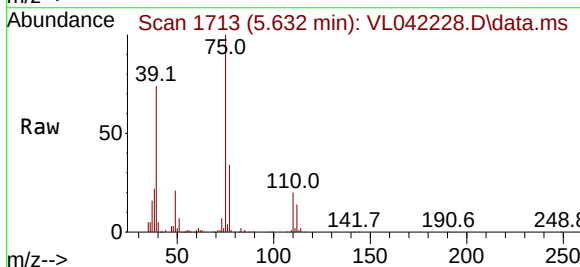
Tgt Ion: 75 Resp: 252032

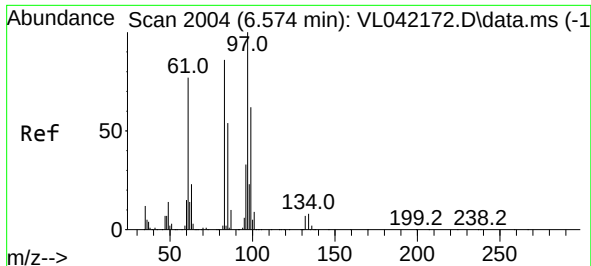
Ion Ratio Lower Upper

75 100

39 73.3 55.8 83.6

77 33.4 26.0 39.0

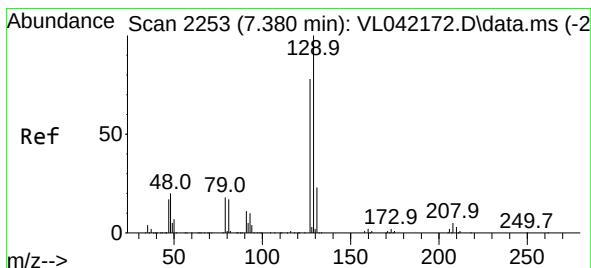
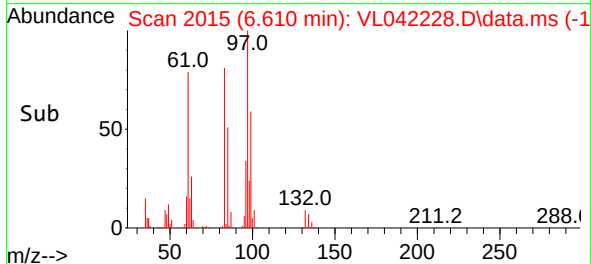
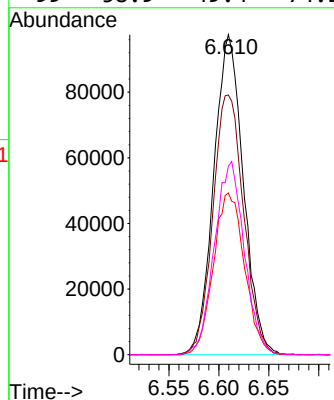
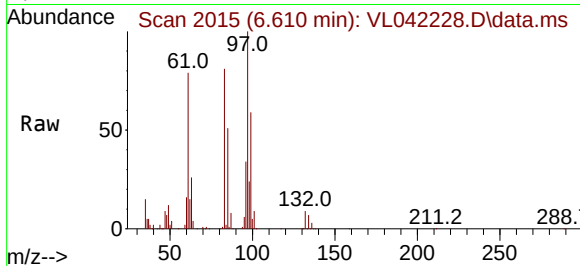




#47
1,1,2-Trichloroethane
Concen: 10.239 ppbv
RT: 6.610 min Scan# 2004
Delta R.T. 0.035 min
Lab File: VL042228.D
Acq: 07 Apr 2025 09:31

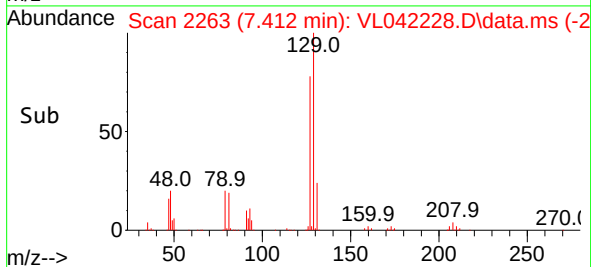
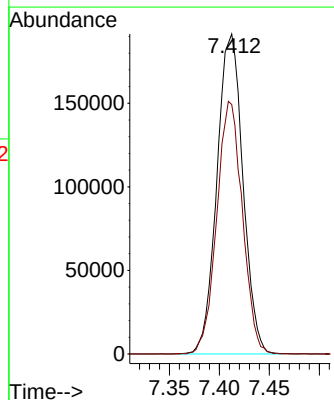
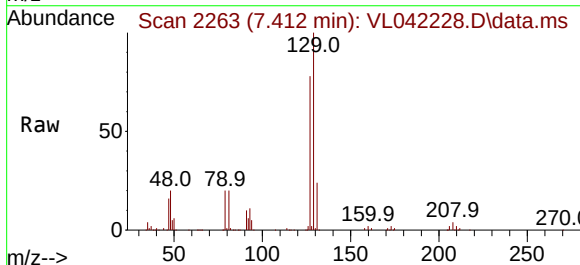
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

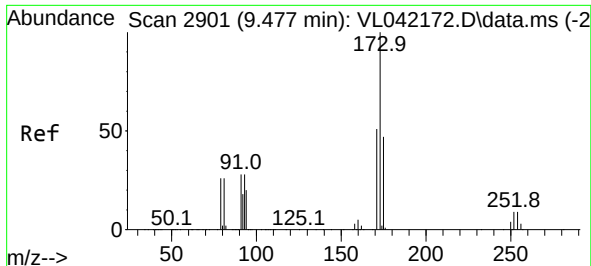
Tgt Ion: 97 Resp: 200780
Ion Ratio Lower Upper
97 100
83 81.0 69.2 103.8
85 50.4 43.1 64.7
99 58.9 49.4 74.2



#48
Dibromochloromethane
Concen: 10.438 ppbv
RT: 7.412 min Scan# 2263
Delta R.T. 0.032 min
Lab File: VL042228.D
Acq: 07 Apr 2025 09:31

Tgt Ion: 129 Resp: 346881
Ion Ratio Lower Upper
129 100
127 77.8 39.1 117.2





#49

Bromoform

Concen: 9.932 ppbv

RT: 9.500 min Scan# 2901

Delta R.T. 0.023 min

Lab File: VL042228.D

Acq: 07 Apr 2025 09:31

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

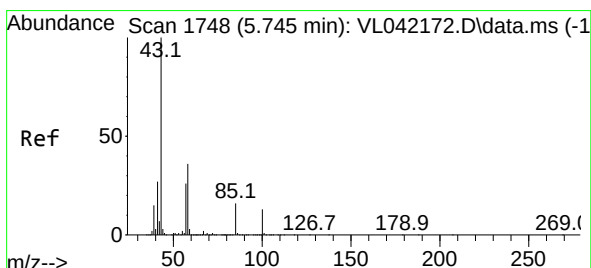
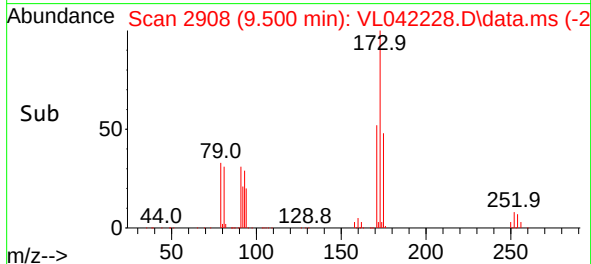
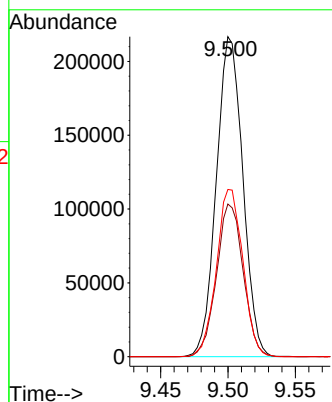
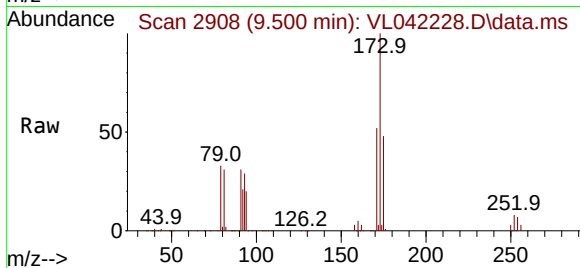
Tgt Ion:173 Resp: 296338

Ion Ratio Lower Upper

173 100

175 48.1 38.6 57.8

171 52.2 41.8 62.6



#50

4-Methyl-2-Pentanone

Concen: 8.665 ppbv

RT: 5.781 min Scan# 1759

Delta R.T. 0.036 min

Lab File: VL042228.D

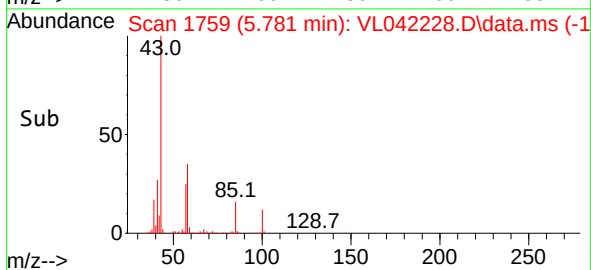
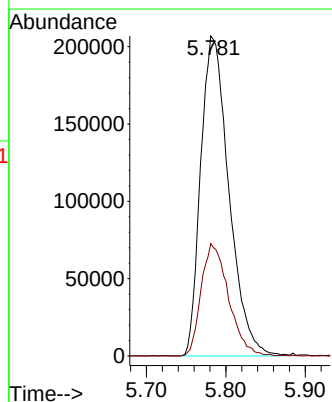
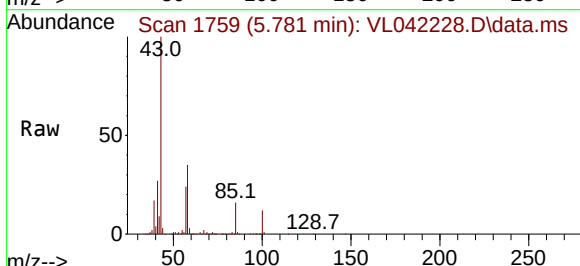
Acq: 07 Apr 2025 09:31

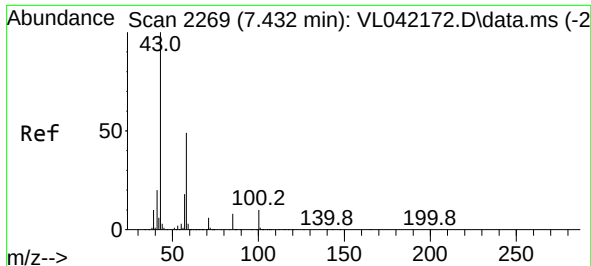
Tgt Ion: 43 Resp: 511581

Ion Ratio Lower Upper

43 100

58 34.2 29.0 43.6

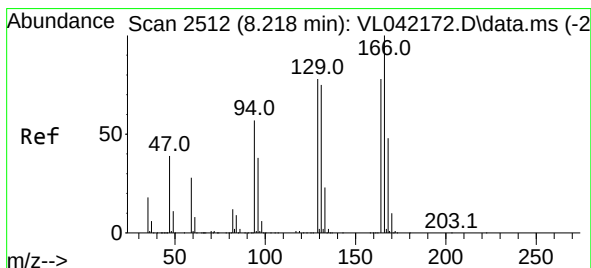
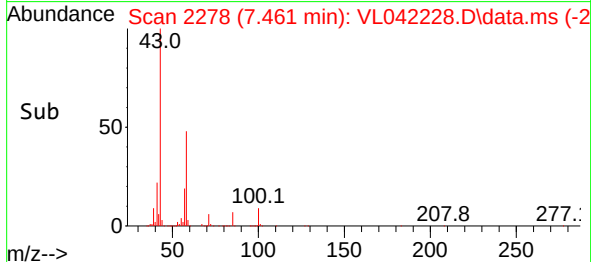
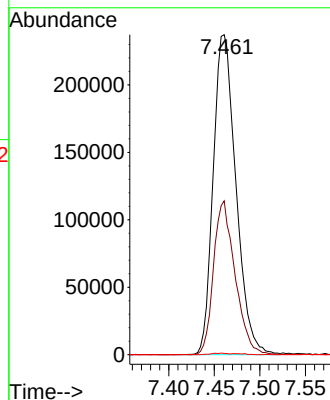
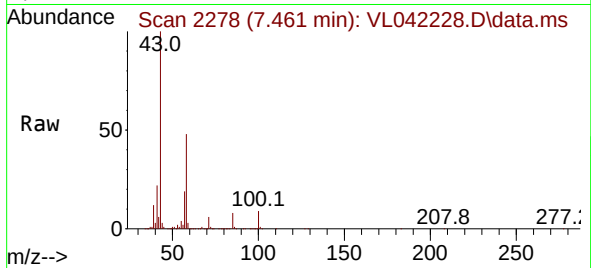




#51
2-Hexanone
Concen: 8.501 ppbv
RT: 7.461 min Scan# 21
Delta R.T. 0.029 min
Lab File: VL042228.D
Acq: 07 Apr 2025 09:31

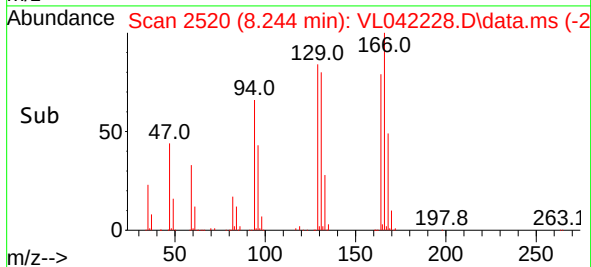
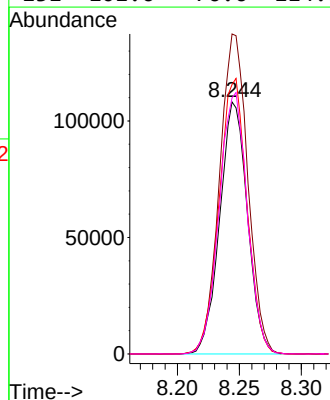
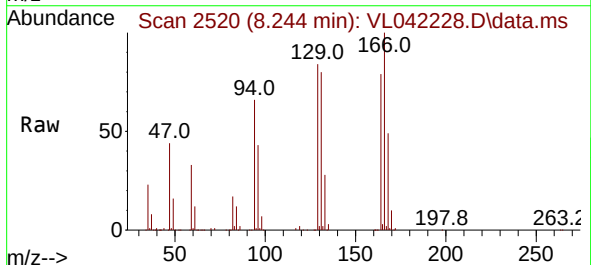
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

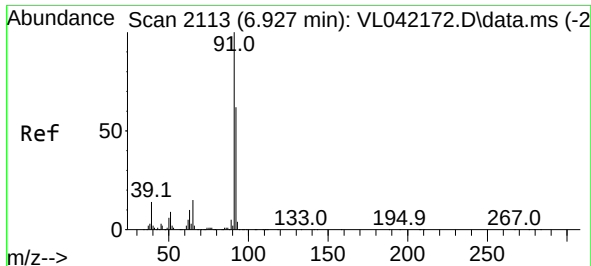
Tgt Ion: 43 Resp: 412183
Ion Ratio Lower Upper
43 100
58 45.4 39.7 59.5
98 0.5 0.1 0.1#



#52
Tetrachloroethene
Concen: 8.322 ppbv
RT: 8.244 min Scan# 2520
Delta R.T. 0.026 min
Lab File: VL042228.D
Acq: 07 Apr 2025 09:31

Tgt Ion: 164 Resp: 168107
Ion Ratio Lower Upper
164 100
166 127.0 102.5 153.7
129 106.9 79.8 119.8
131 101.6 76.6 114.8

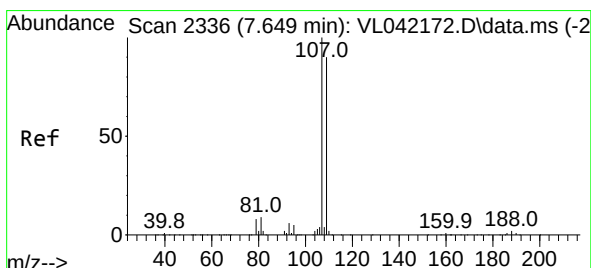
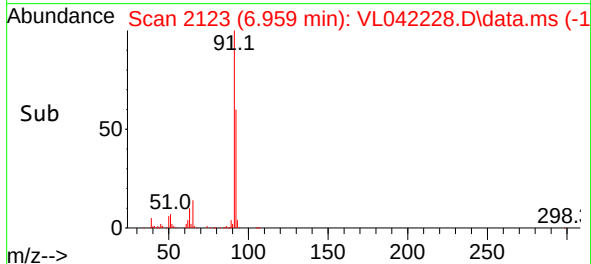
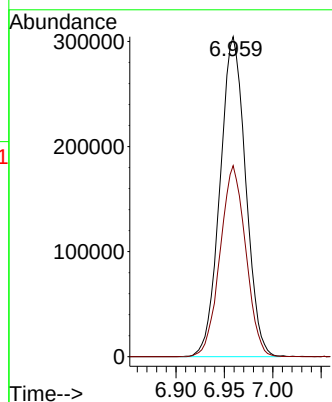
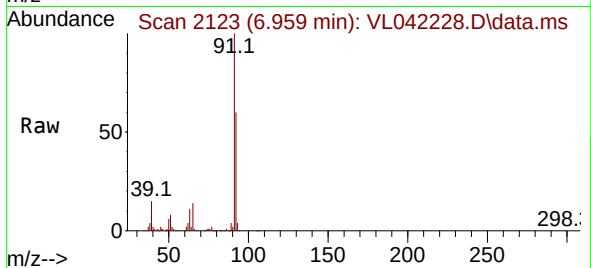




#53
Toluene
Concen: 9.286 ppbv
RT: 6.959 min Scan# 2113
Delta R.T. 0.032 min
Lab File: VL042228.D
Acq: 07 Apr 2025 09:31

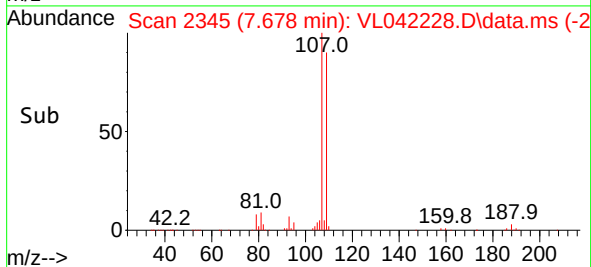
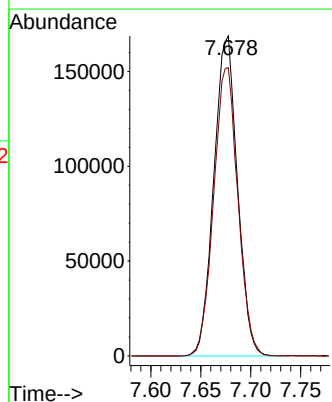
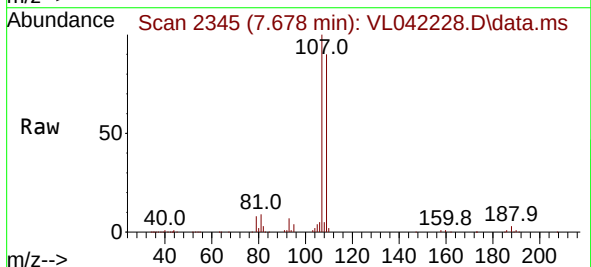
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

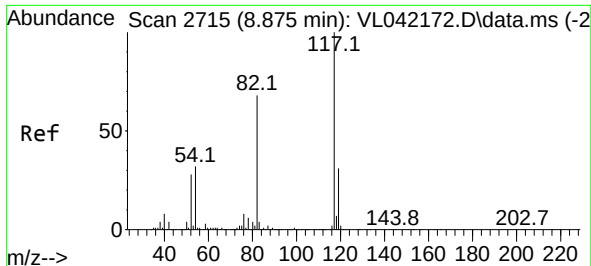
Tgt Ion: 91 Resp: 560665
Ion Ratio Lower Upper
91 100
92 59.8 48.4 72.6



#54
1,2-Dibromoethane
Concen: 10.154 ppbv
RT: 7.678 min Scan# 2345
Delta R.T. 0.029 min
Lab File: VL042228.D
Acq: 07 Apr 2025 09:31

Tgt Ion: 107 Resp: 277561
Ion Ratio Lower Upper
107 100
109 90.1 72.2 108.4

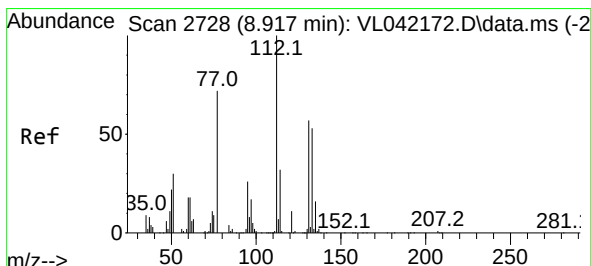
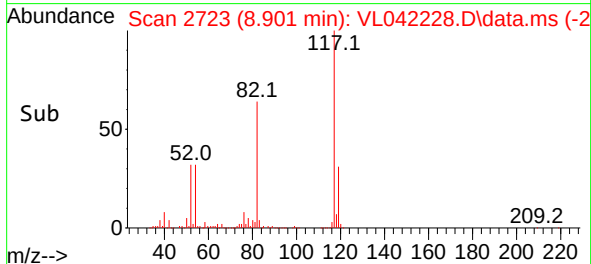
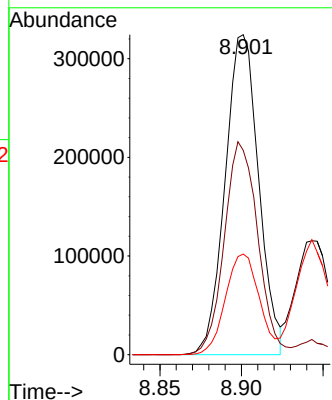
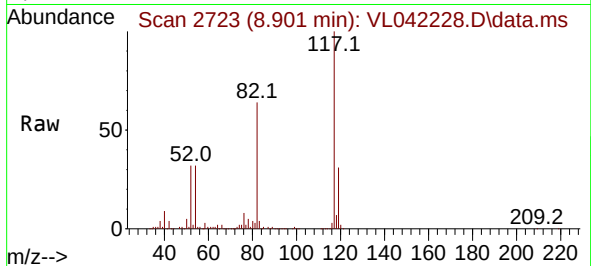




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.901 min Scan# 21
Delta R.T. 0.026 min
Lab File: VL042228.D
Acq: 07 Apr 2025 09:31

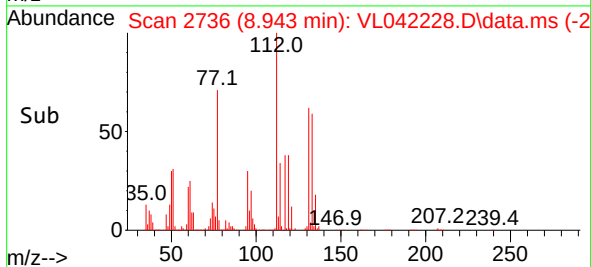
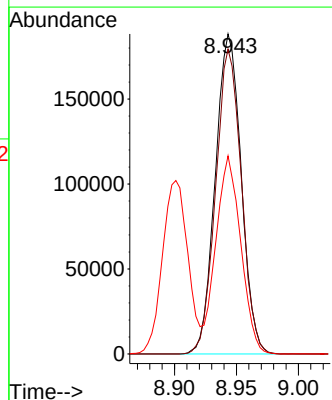
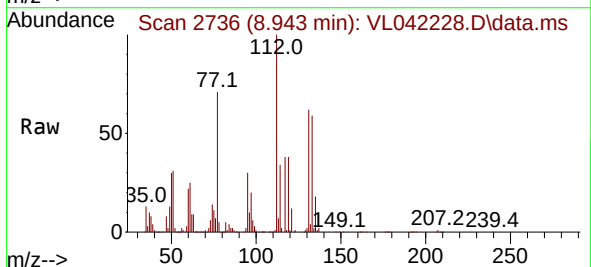
Instrument :
MSVOA_1
ClientSampleId :
VSTDCCC010

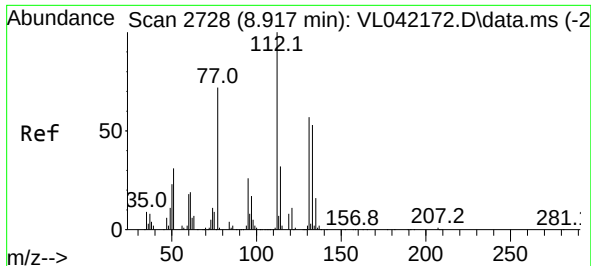
Tgt Ion:117 Resp: 464477
Ion Ratio Lower Upper
117 100
82 70.4 55.8 83.6
119 32.3 25.5 38.3



#56
1,1,1,2-Tetrachloroethane
Concen: 10.722 ppbv
RT: 8.943 min Scan# 2736
Delta R.T. 0.026 min
Lab File: VL042228.D
Acq: 07 Apr 2025 09:31

Tgt Ion:131 Resp: 274135
Ion Ratio Lower Upper
131 100
133 94.5 76.6 114.8
119 61.1 49.8 74.6

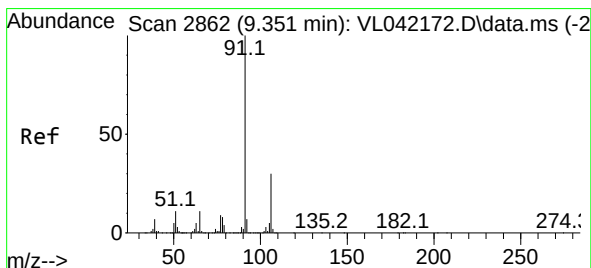
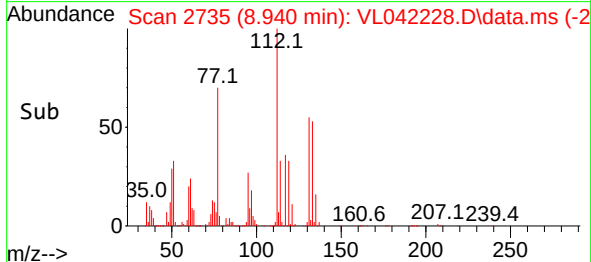
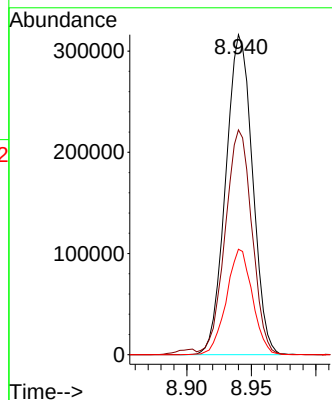
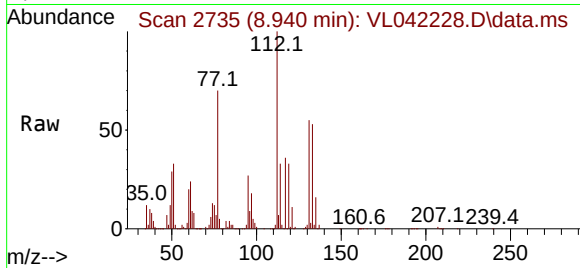




#57
Chlorobenzene
Concen: 10.368 ppbv
RT: 8.940 min Scan# 21
Delta R.T. 0.023 min
Lab File: VL042228.D
Acq: 07 Apr 2025 09:31

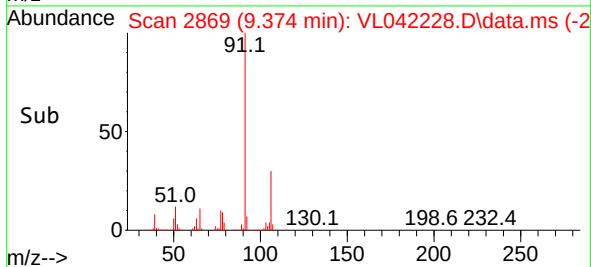
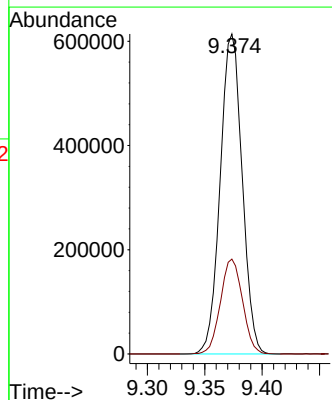
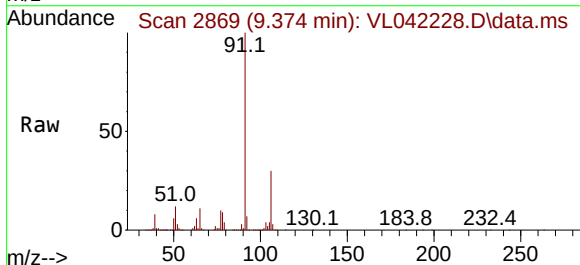
Instrument :
MSVOA_1
ClientSampleId :
VSTDCCC010

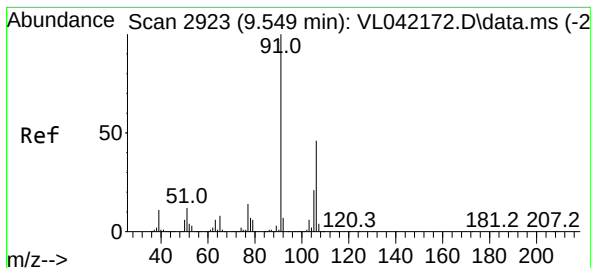
Tgt Ion:112 Resp: 456787
Ion Ratio Lower Upper
112 100
77 69.9 58.2 87.2
114 32.9 29.1 35.5



#58
Ethyl Benzene
Concen: 9.888 ppbv
RT: 9.374 min Scan# 2869
Delta R.T. 0.023 min
Lab File: VL042228.D
Acq: 07 Apr 2025 09:31

Tgt Ion: 91 Resp: 815771
Ion Ratio Lower Upper
91 100
106 29.7 24.2 36.2





#59

m/p-Xylene

Concen: 10.284 ppbv

RT: 9.568 min Scan# 29

Delta R.T. 0.019 min

Lab File: VL042228.D

Acq: 07 Apr 2025 09:31

Instrument :

MSVOA_L

ClientSampleId :

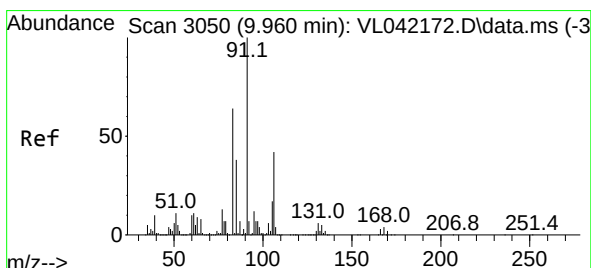
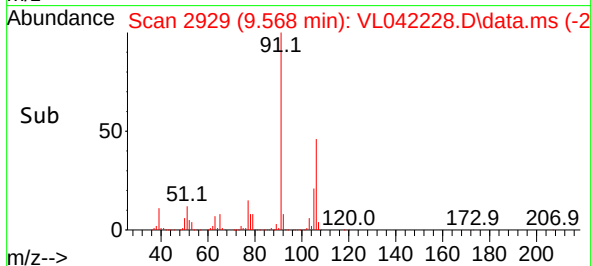
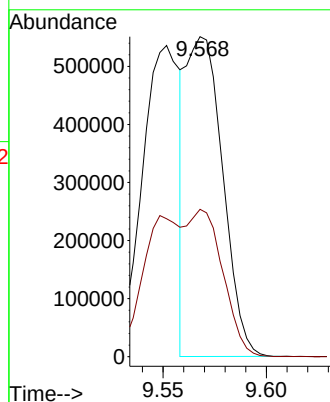
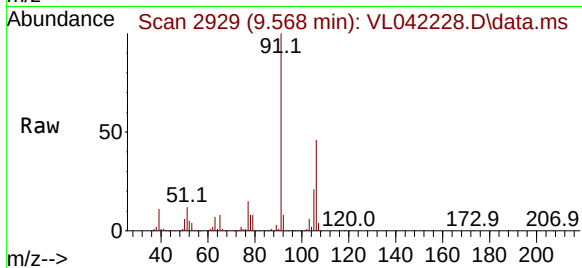
VSTDCCC010

Tgt Ion: 91 Resp: 677509

Ion Ratio Lower Upper

91 100

106 91.4 36.4 54.6#



#60

o-Xylene

Concen: 10.284 ppbv

RT: 9.982 min Scan# 3057

Delta R.T. 0.023 min

Lab File: VL042228.D

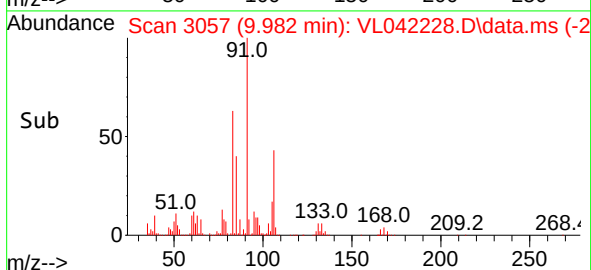
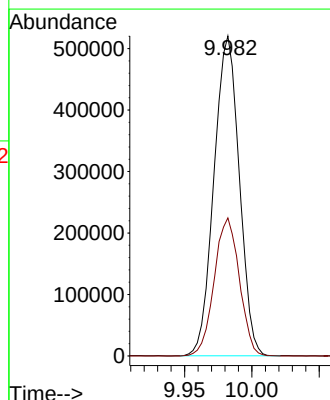
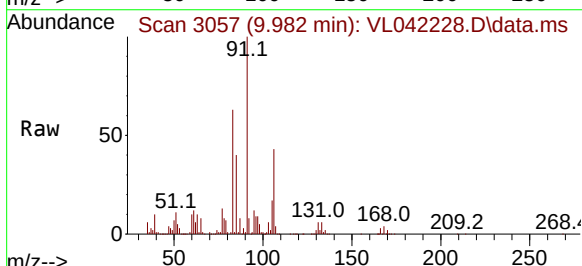
Acq: 07 Apr 2025 09:31

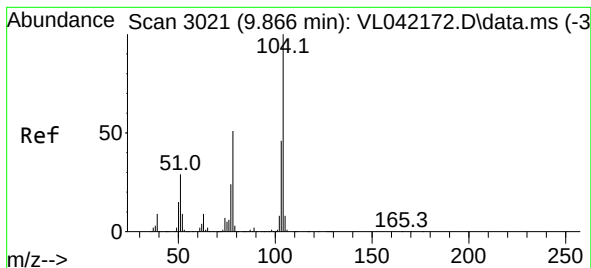
Tgt Ion: 91 Resp: 679193

Ion Ratio Lower Upper

91 100

106 42.9 20.8 62.5





#61

Styrene

Concen: 9.635 ppbv

RT: 9.888 min Scan# 3021

Delta R.T. 0.023 min

Lab File: VL042228.D

Acq: 07 Apr 2025 09:31

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

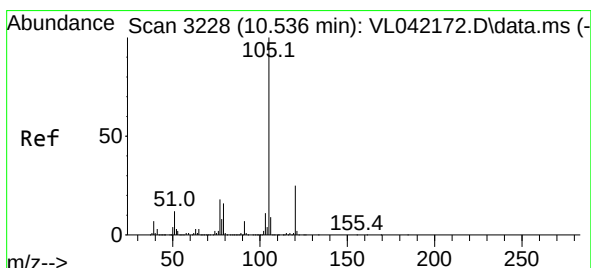
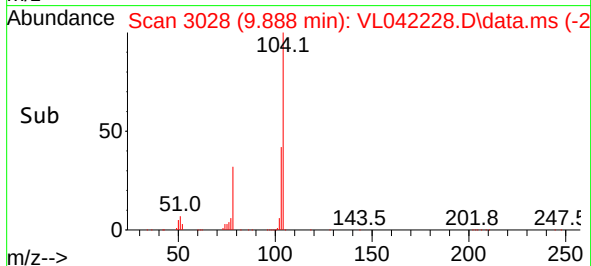
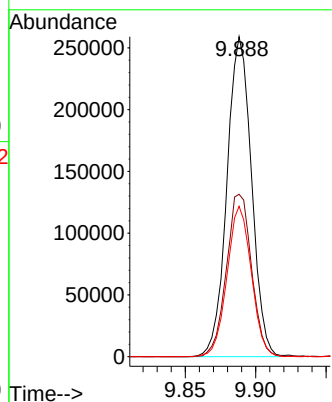
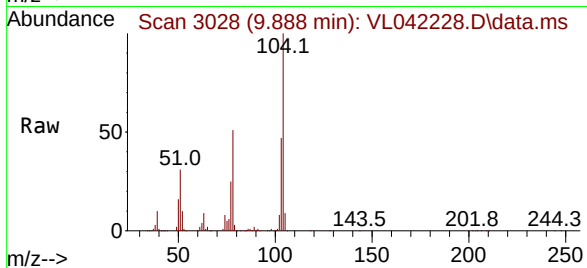
Tgt Ion:104 Resp: 314809

Ion Ratio Lower Upper

104 100

78 52.1 41.8 62.6

103 46.5 37.0 55.4



#62

Isopropylbenzene

Concen: 10.265 ppbv

RT: 10.555 min Scan# 3234

Delta R.T. 0.019 min

Lab File: VL042228.D

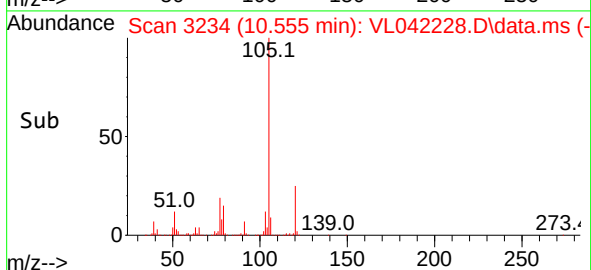
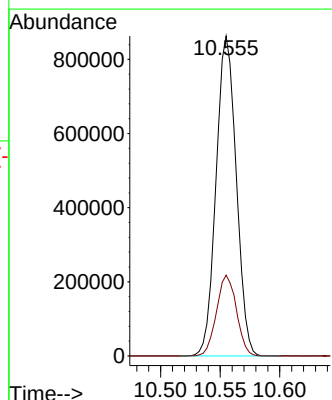
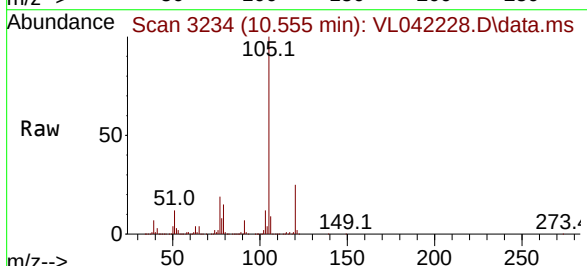
Acq: 07 Apr 2025 09:31

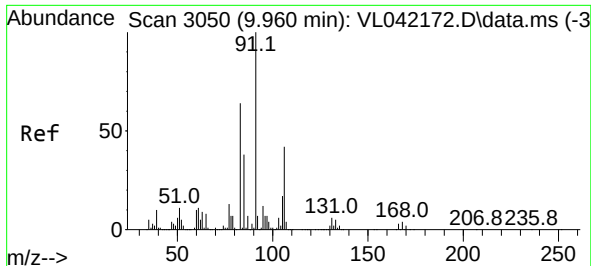
Tgt Ion:105 Resp: 1013803

Ion Ratio Lower Upper

105 100

120 25.0 19.9 29.9

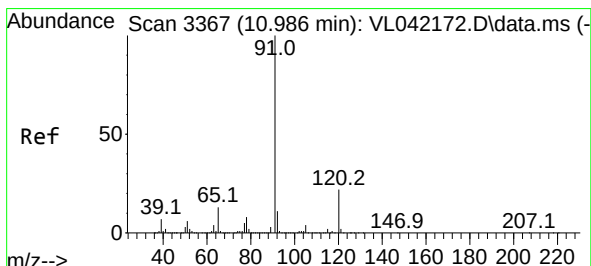
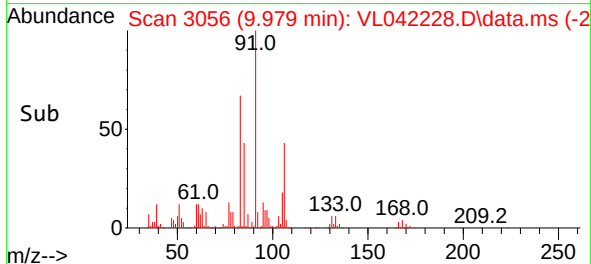
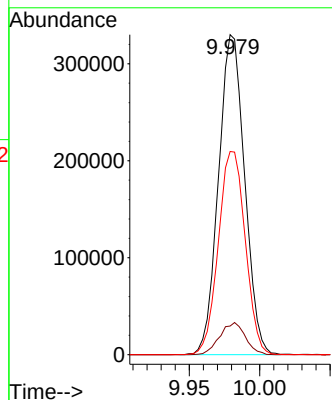
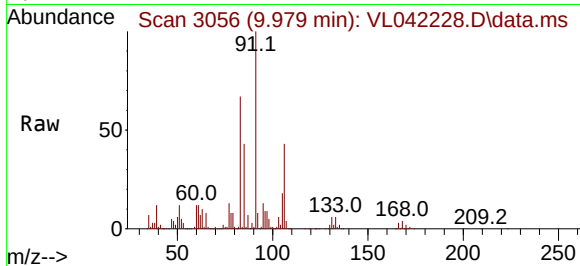




#63
1,1,2,2-Tetrachloroethane
Concen: 10.651 ppbv
RT: 9.979 min Scan# 3050
Delta R.T. 0.019 min
Lab File: VL042228.D
Acq: 07 Apr 2025 09:31

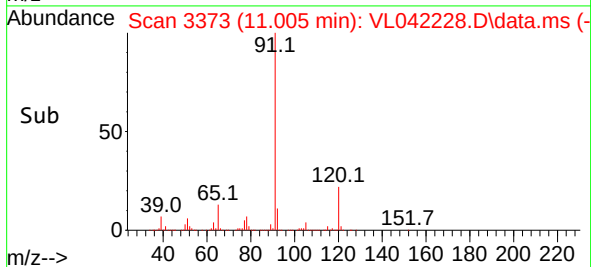
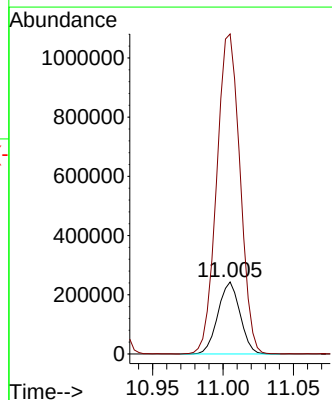
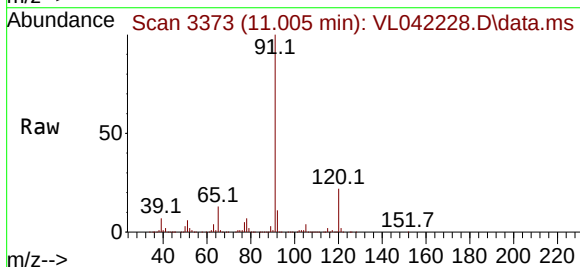
Instrument :
MSVOA_1
ClientSampleId :
VSTDCCC010

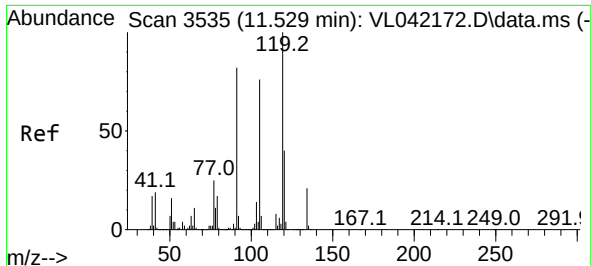
Tgt Ion: 83 Resp: 427404
Ion Ratio Lower Upper
83 100
131 9.9 4.8 14.4
85 65.3 32.5 97.5



#64
n-propylbenzene
Concen: 10.429 ppbv
RT: 11.005 min Scan# 3373
Delta R.T. 0.019 min
Lab File: VL042228.D
Acq: 07 Apr 2025 09:31

Tgt Ion: 120 Resp: 265137
Ion Ratio Lower Upper
120 100
91 469.5 376.9 565.3

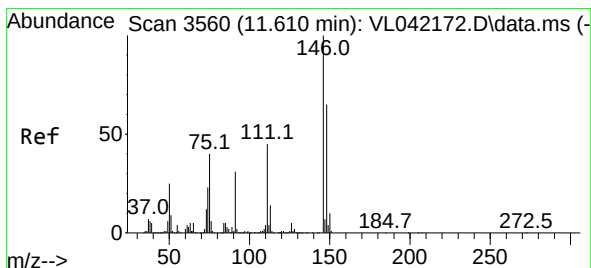
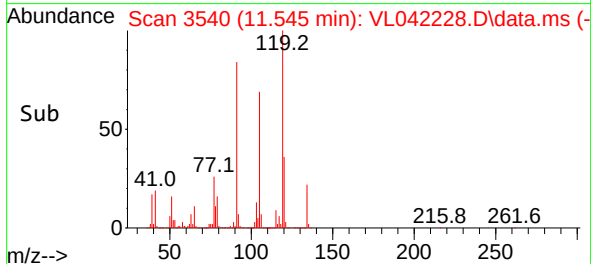
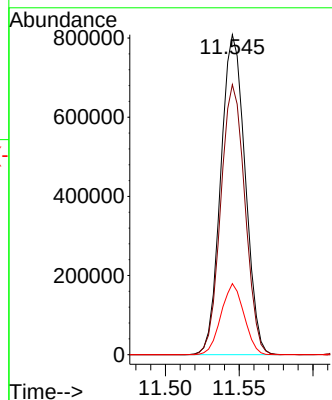
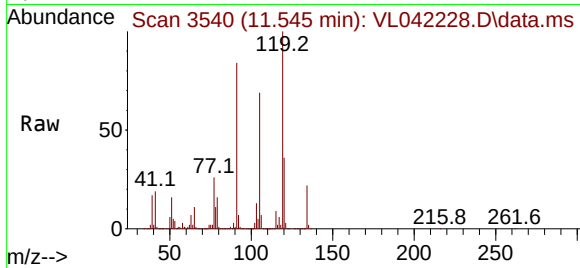




#65
tert-Butylbenzene
Concen: 10.171 ppbv
RT: 11.545 min Scan# 3535
Delta R.T. 0.016 min
Lab File: VL042228.D
Acq: 07 Apr 2025 09:31

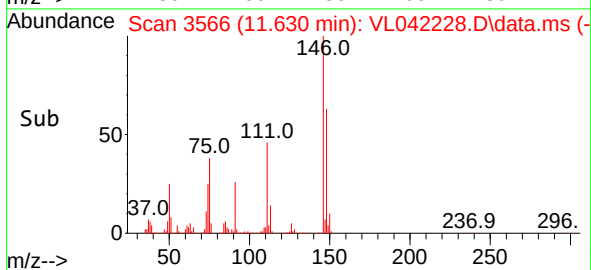
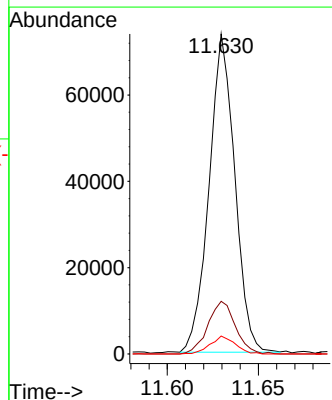
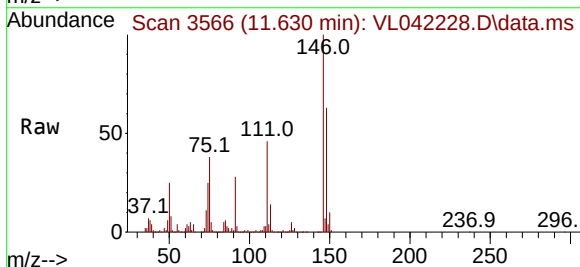
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

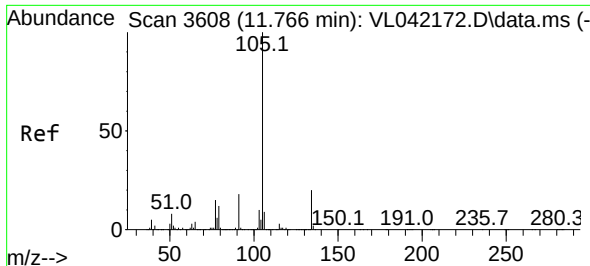
Tgt Ion:119 Resp: 928989
Ion Ratio Lower Upper
119 100
91 83.8 66.0 99.0
134 20.9 16.7 25.1



#66
Benzyl Chloride
Concen: 7.452 ppbv
RT: 11.630 min Scan# 3566
Delta R.T. 0.019 min
Lab File: VL042228.D
Acq: 07 Apr 2025 09:31

Tgt Ion: 91 Resp: 72224
Ion Ratio Lower Upper
91 100
126 17.8 13.8 20.6
128 5.5 4.5 6.7

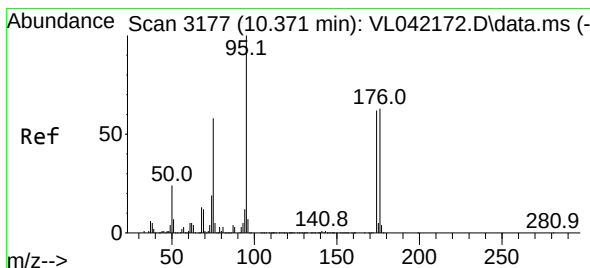
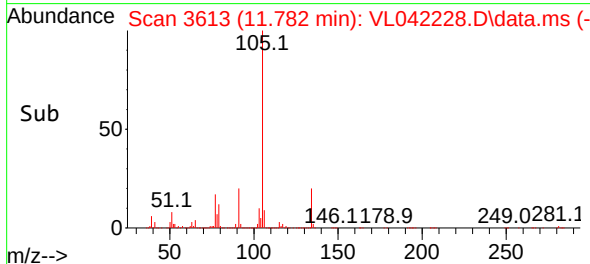
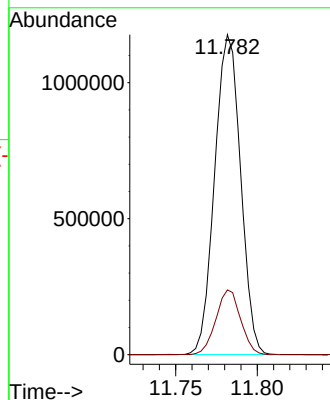
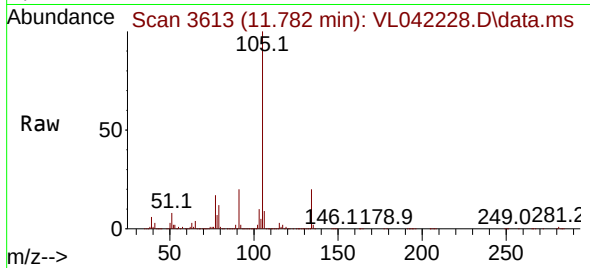




#67
 sec-Butylbenzene
 Concen: 10.229 ppbv
 RT: 11.782 min Scan# 3613
 Delta R.T. 0.016 min
 Lab File: VL042228.D
 Acq: 07 Apr 2025 09:31

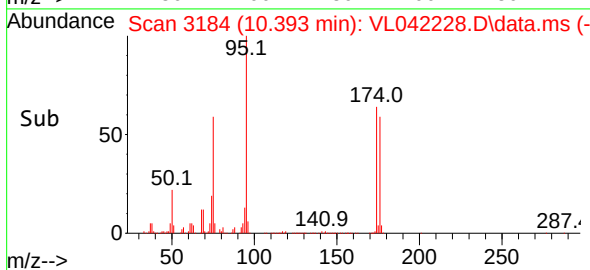
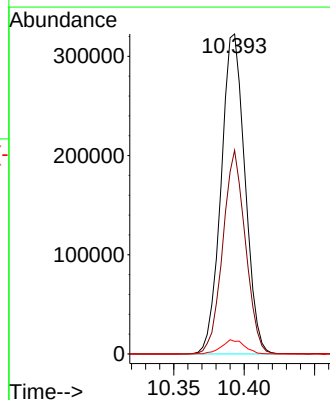
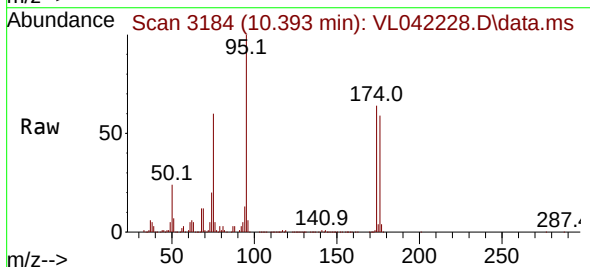
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDCCC010

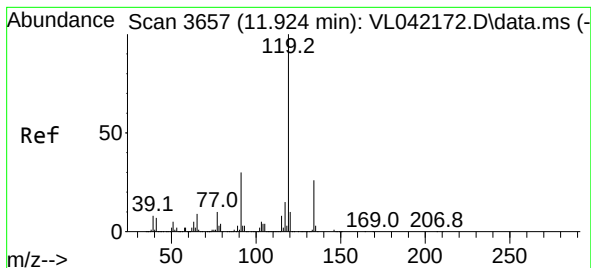
Tgt Ion:105 Resp: 1298645
 Ion Ratio Lower Upper
 105 100
 134 19.4 15.5 23.3



#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.971 ppbv
 RT: 10.393 min Scan# 3184
 Delta R.T. 0.023 min
 Lab File: VL042228.D
 Acq: 07 Apr 2025 09:31

Tgt Ion: 95 Resp: 380328
 Ion Ratio Lower Upper
 95 100
 174 60.5 50.6 76.0
 175 4.3 3.8 5.6

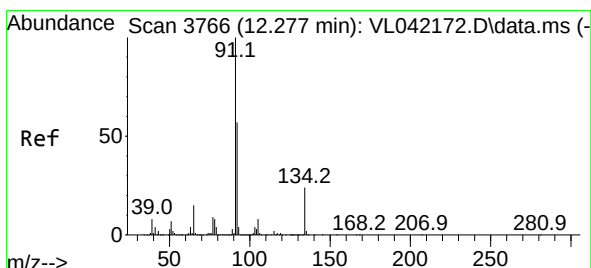
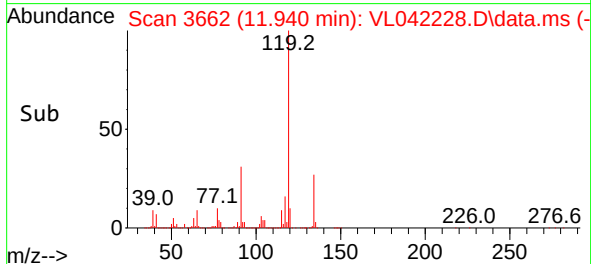
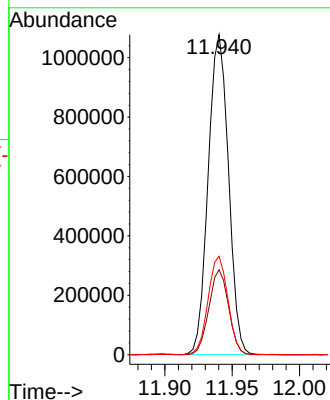
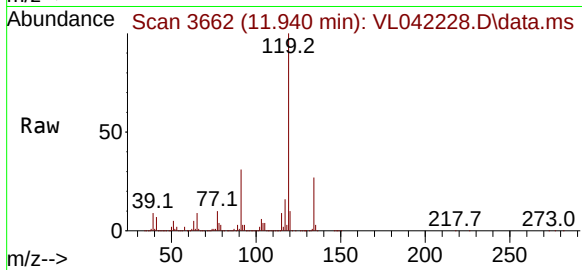




#69
p-Isopropyltoluene
Concen: 10.324 ppbv
RT: 11.940 min Scan# 3662
Delta R.T. 0.016 min
Lab File: VL042228.D
Acq: 07 Apr 2025 09:31

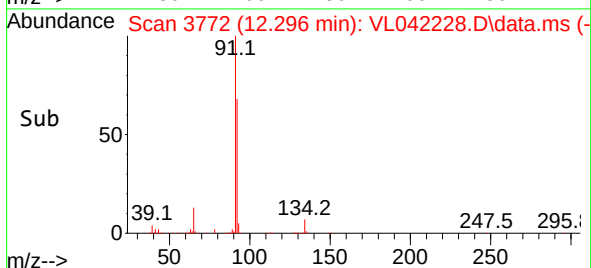
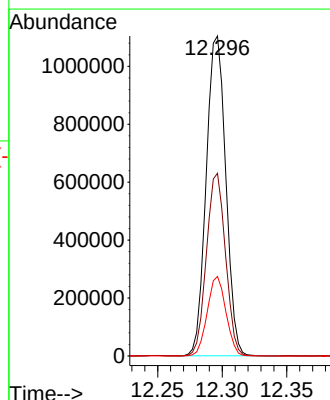
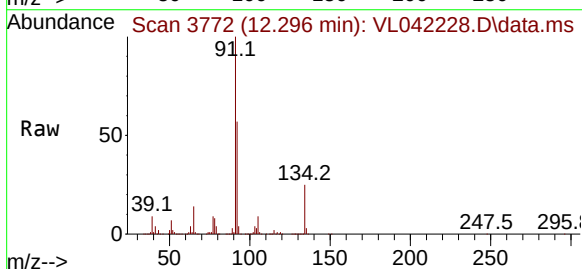
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

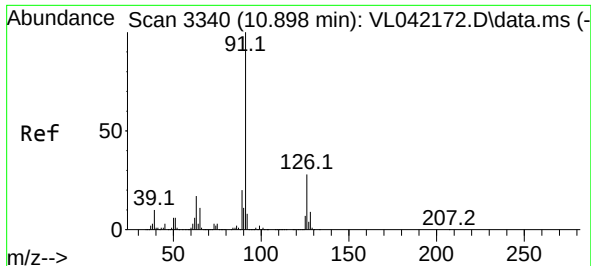
Tgt Ion:119 Resp: 1128593
Ion Ratio Lower Upper
119 100
134 25.8 20.4 30.6
91 30.1 23.7 35.5



#70
n-Butylbenzene
Concen: 10.428 ppbv
RT: 12.296 min Scan# 3772
Delta R.T. 0.019 min
Lab File: VL042228.D
Acq: 07 Apr 2025 09:31

Tgt Ion: 91 Resp: 1165845
Ion Ratio Lower Upper
91 100
92 55.8 44.9 67.3
134 23.7 19.2 28.8

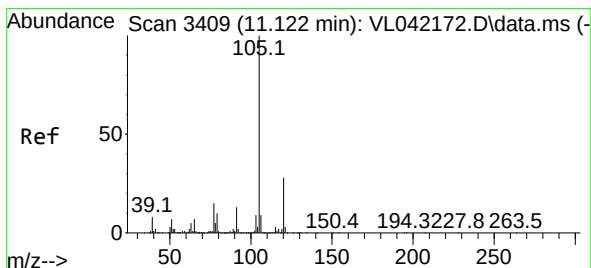
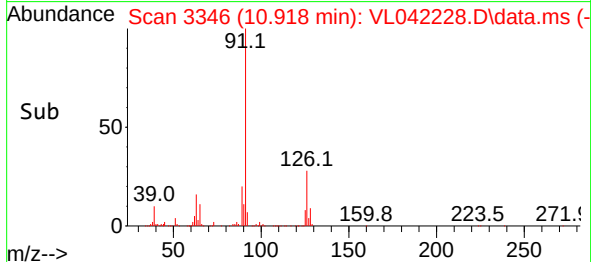
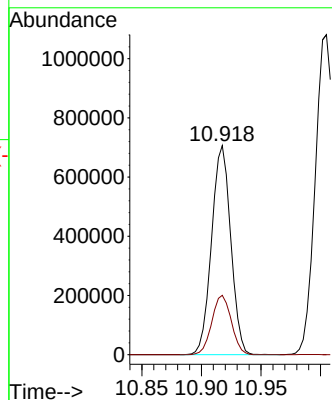
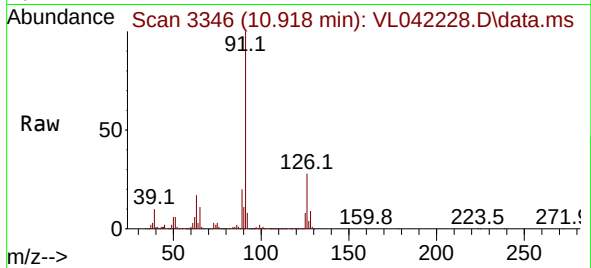




#71
2-Chlorotoluene
Concen: 10.274 ppbv
RT: 10.918 min Scan# 31
Delta R.T. 0.019 min
Lab File: VL042228.D
Acq: 07 Apr 2025 09:31

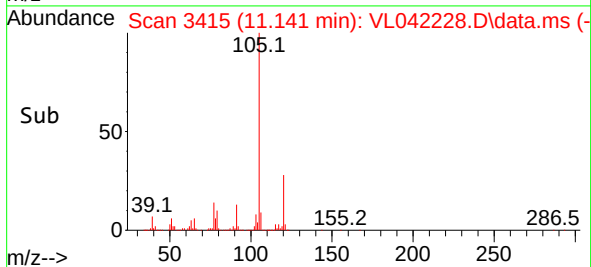
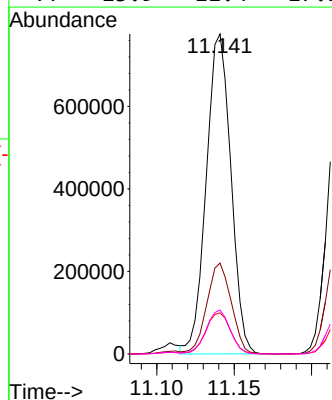
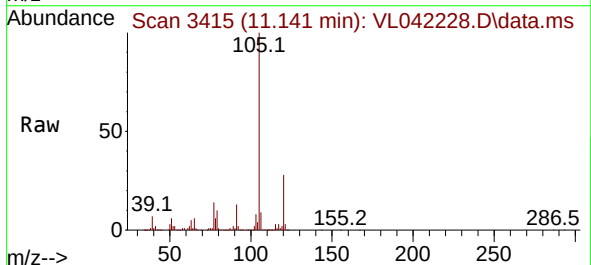
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

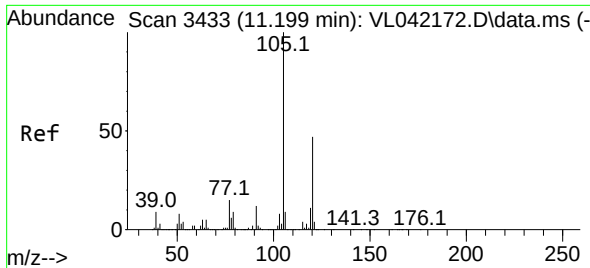
Tgt Ion: 91 Resp: 787527
Ion Ratio Lower Upper
91 100
126 28.9 11.6 46.4



#72
4-Ethyltoluene
Concen: 10.422 ppbv
RT: 11.141 min Scan# 3415
Delta R.T. 0.019 min
Lab File: VL042228.D
Acq: 07 Apr 2025 09:31

Tgt Ion: 105 Resp: 857021
Ion Ratio Lower Upper
105 100
120 29.0 23.4 35.0
91 13.4 10.3 15.5
77 13.9 11.4 17.2

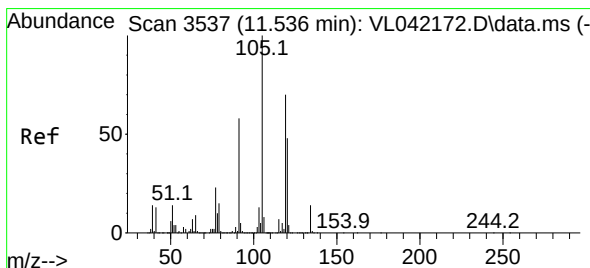
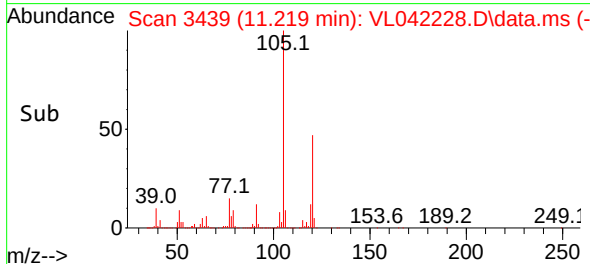
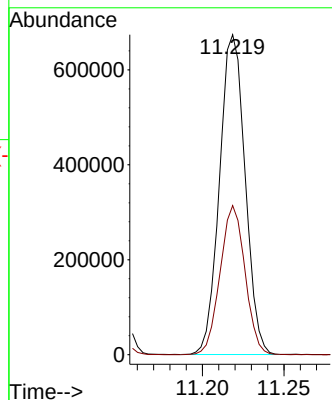
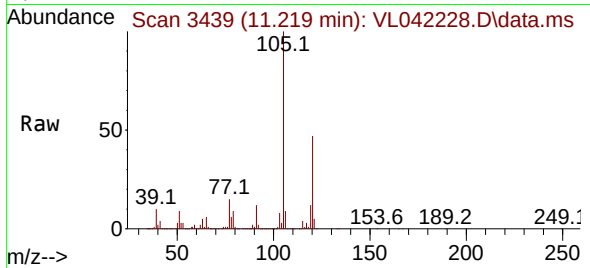




#73
 1,3,5-Trimethylbenzene
 Concen: 10.239 ppbv
 RT: 11.219 min Scan# 3439
 Delta R.T. 0.019 min
 Lab File: VL042228.D
 Acq: 07 Apr 2025 09:31

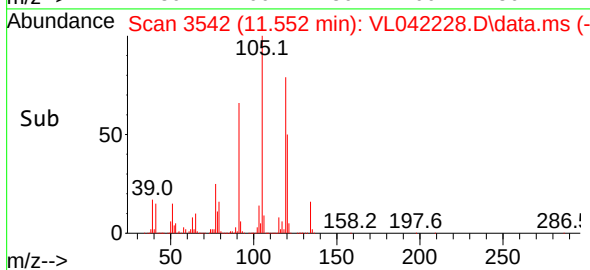
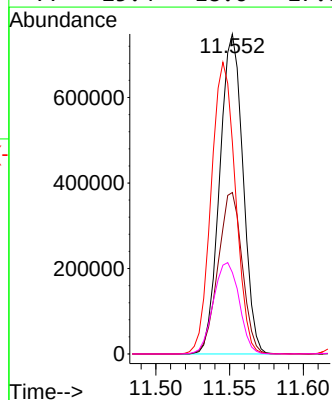
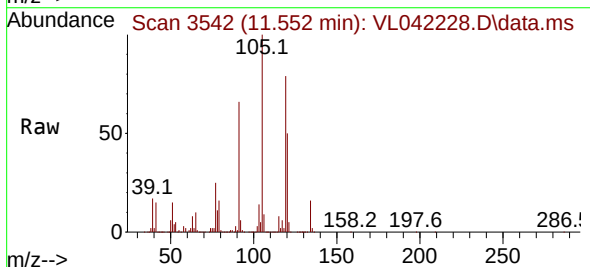
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDCCC010

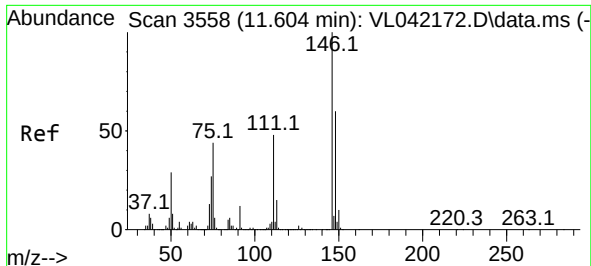
Tgt Ion:105 Resp: 735306
 Ion Ratio Lower Upper
 105 100
 120 46.6 37.4 56.0



#74
 1,2,4-Trimethylbenzene
 Concen: 9.935 ppbv
 RT: 11.552 min Scan# 3542
 Delta R.T. 0.016 min
 Lab File: VL042228.D
 Acq: 07 Apr 2025 09:31

Tgt Ion:105 Resp: 821957
 Ion Ratio Lower Upper
 105 100
 120 50.5 38.6 58.0
 91 66.2 46.2 69.2
 77 25.4 18.6 27.8

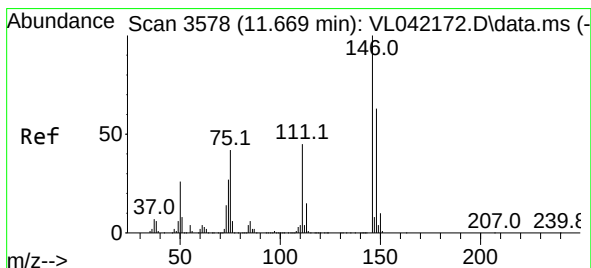
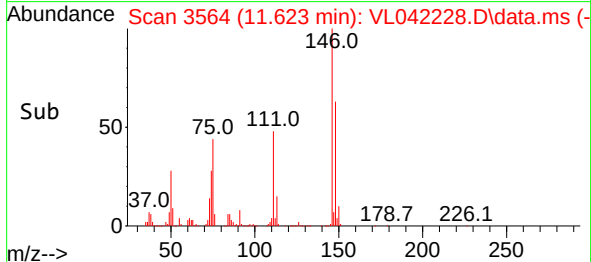
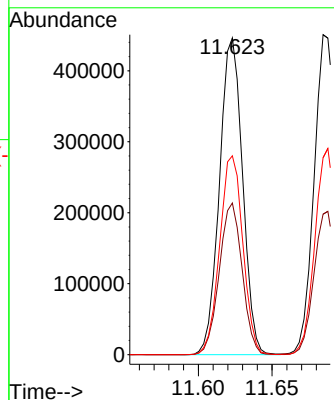
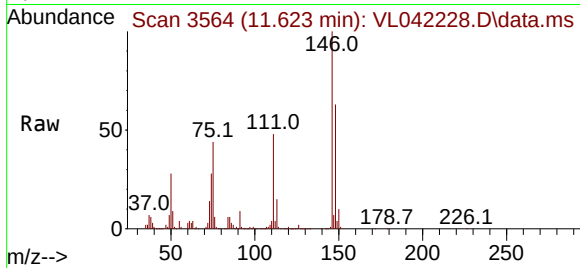




#75
1,3-Dichlorobenzene
Concen: 10.703 ppbv
RT: 11.623 min Scan# 3564
Delta R.T. 0.019 min
Lab File: VL042228.D
Acq: 07 Apr 2025 09:31

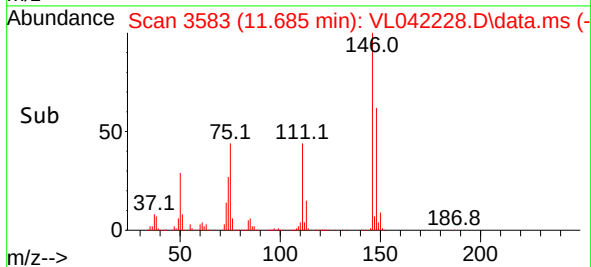
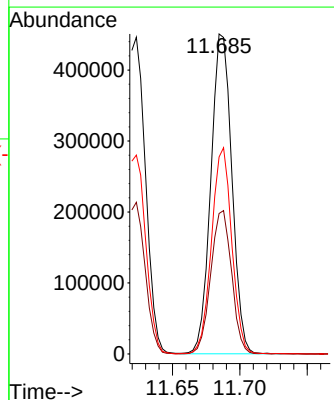
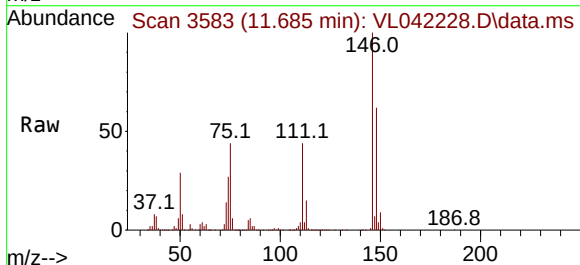
Instrument :
MSVOA_1
ClientSampleId :
VSTDCCC010

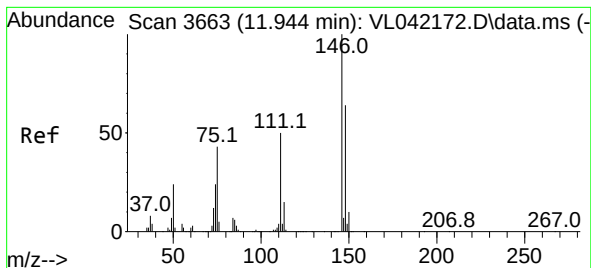
Tgt Ion:146 Resp: 485669
Ion Ratio Lower Upper
146 100
111 47.5 23.8 71.2
148 63.1 31.9 95.9



#76
1,4-Dichlorobenzene
Concen: 10.821 ppbv
RT: 11.685 min Scan# 3583
Delta R.T. 0.016 min
Lab File: VL042228.D
Acq: 07 Apr 2025 09:31

Tgt Ion:146 Resp: 488661
Ion Ratio Lower Upper
146 100
111 44.6 23.0 69.0
148 62.4 31.9 95.7





#77

1,2-Dichlorobenzene

Concen: 10.873 ppbv

RT: 11.963 min Scan# 3

Delta R.T. 0.019 min

Lab File: VL042228.D

Acq: 07 Apr 2025 09:31

Instrument :

MSVOA_1

ClientSampleId :

VSTDCCC010

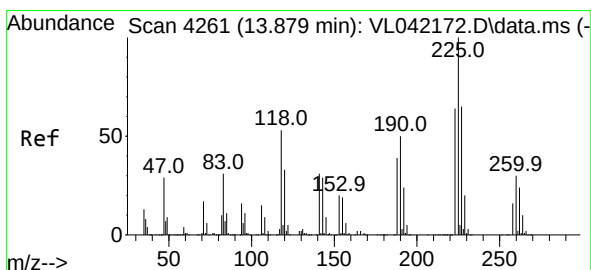
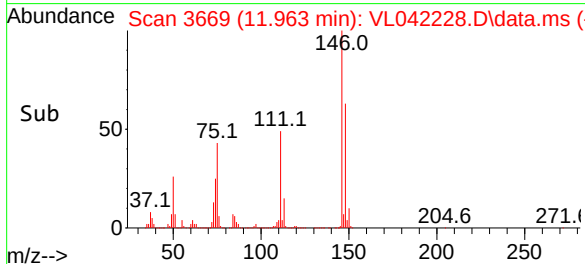
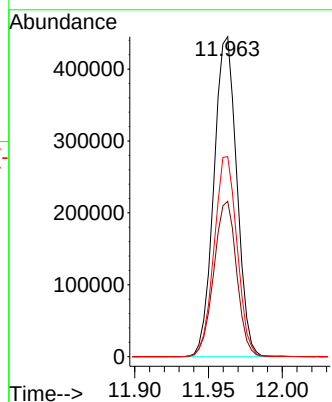
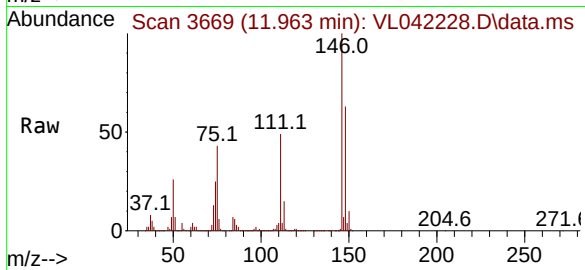
Tgt Ion:146 Resp: 480373

Ion Ratio Lower Upper

146 100

111 48.6 24.8 74.3

148 62.9 31.6 94.8



#78

Hexachloro-1,3-Butadiene

Concen: 8.646 ppbv

RT: 13.895 min Scan# 4266

Delta R.T. 0.016 min

Lab File: VL042228.D

Acq: 07 Apr 2025 09:31

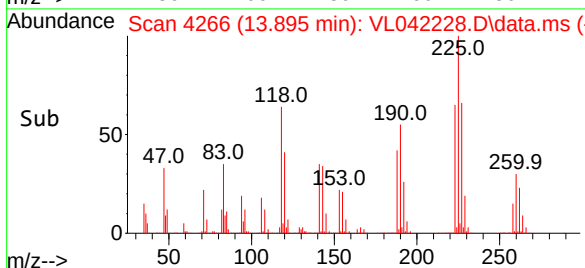
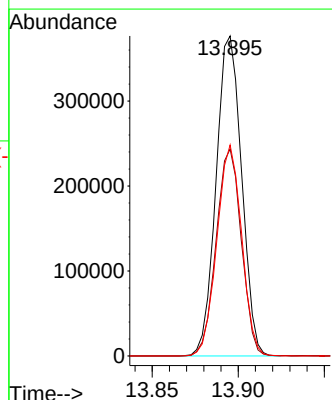
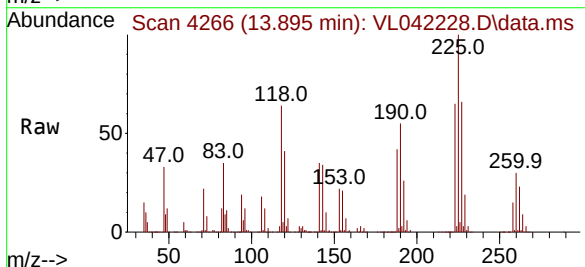
Tgt Ion:225 Resp: 388827

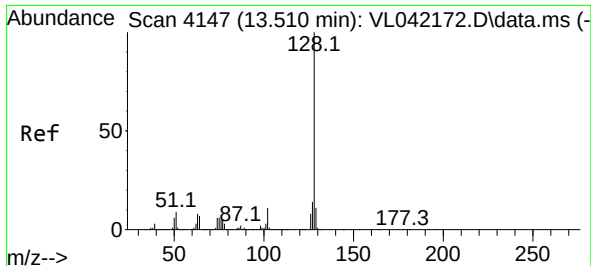
Ion Ratio Lower Upper

225 100

223 63.8 50.6 76.0

227 63.9 51.2 76.8

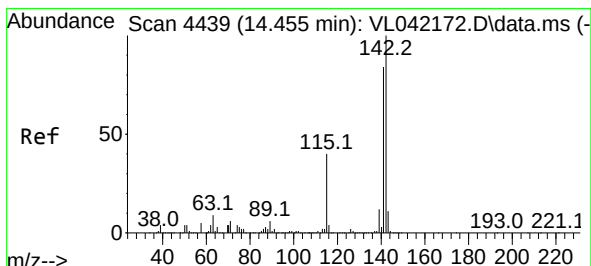
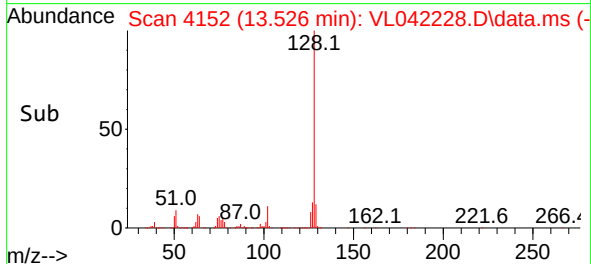
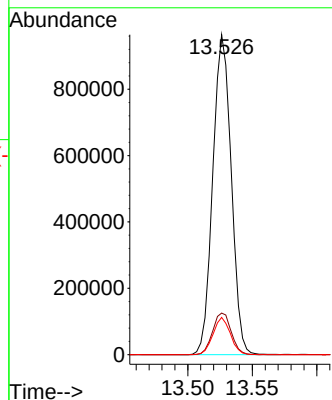
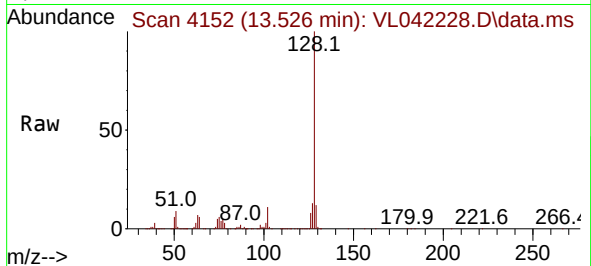




#79
Naphthalene
Concen: 10.570 ppbv
RT: 13.526 min Scan# 4147
Delta R.T. 0.016 min
Lab File: VL042228.D
Acq: 07 Apr 2025 09:31

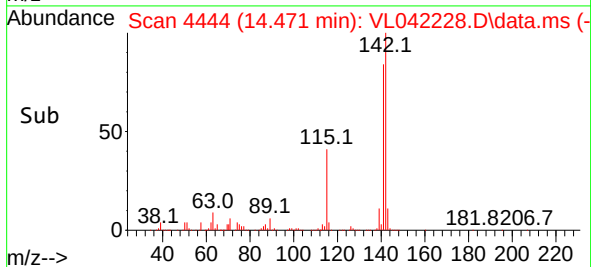
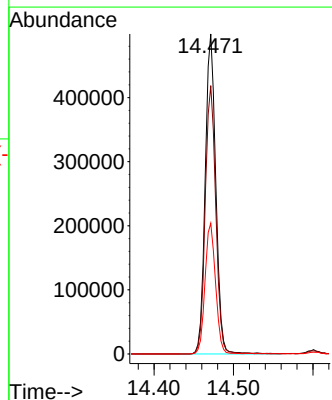
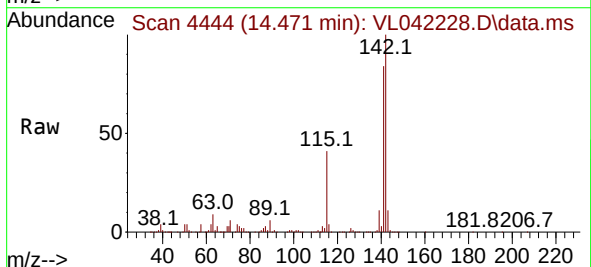
Instrument :
MSVOA_1
ClientSampleId :
VSTDCCC010

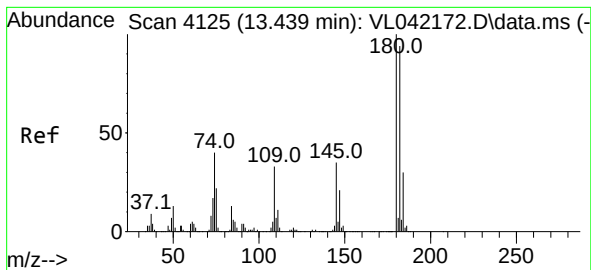
Tgt Ion:128 Resp: 956597
Ion Ratio Lower Upper
128 100
127 13.0 10.8 16.2
129 11.6 9.0 13.4



#80
Naphthalene,2-methyl-
Concen: 10.419 ppbv
RT: 14.471 min Scan# 4444
Delta R.T. 0.016 min
Lab File: VL042228.D
Acq: 07 Apr 2025 09:31

Tgt Ion:142 Resp: 462373
Ion Ratio Lower Upper
142 100
141 84.3 66.3 99.5
115 41.1 31.6 47.4





#81

1,2,4-Trichlorobenzene

Concen: 9.886 ppbv

RT: 13.455 min Scan# 41

Delta R.T. 0.016 min

Lab File: VL042228.D

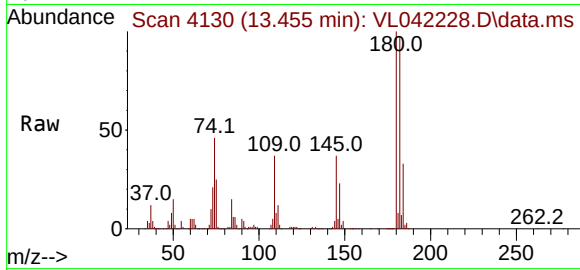
Acq: 07 Apr 2025 09:31

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010



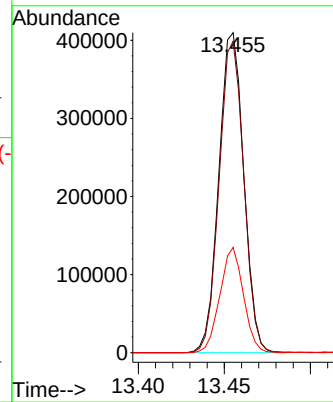
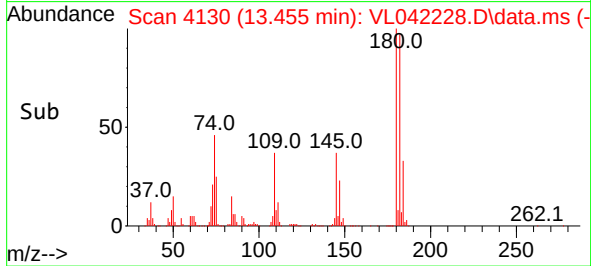
Tgt Ion:180 Resp: 412677

Ion Ratio Lower Upper

180 100

182 96.3 75.1 112.7

184 31.1 24.4 36.6



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040725\
 Data File : VL042230.D
 Acq On : 07 Apr 2025 11:09
 Operator : SY/MD
 Sample : VL0407ABS01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0407ABS01

Quant Time: Apr 08 01:29:41 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri Mar 28 02:00:52 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.800	49	197822	10.000	ppbv	0.02
33) 1,4-Difluorobenzene	3.978	114	531347	10.000	ppbv	0.03
55) Chlorobenzene-d5	8.901	117	473981	10.000	ppbv	0.03

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.393	95	398322	10.233	ppbv	0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.300%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.502	85	273487	9.363	ppbv	100
3) Chlorodifluoromethane	1.479	51	276521	9.267	ppbv	97
4) Chloromethane	1.538	50	106766	8.944	ppbv	99
5) Vinyl Chloride	1.586	62	101600	8.032	ppbv	94
6) Bromomethane	1.674	94	44439	8.215	ppbv	98
7) Chloroethane	1.709	64	42458	8.861	ppbv	97
8) Dichlorotetrafluoroethane	1.560	85	230477	9.266	ppbv	94
9) Propene	1.489	41	106235	7.768	ppbv	97
10) Heptane	5.001	43	311035	8.550	ppbv	100
11) Trichlorofluoromethane	1.884	101	260770	9.175	ppbv	97
12) 1,1,2-Trichlorotrifluo...	2.149	101	210391	9.006	ppbv	96
13) Ethanol	1.729	45	5394	4.172	ppbv	97
14) Bromoethene	1.787	108	71737	8.016	ppbv	97
15) Acetone	1.842	43	230460	8.330	ppbv	96
16) 1,3-Butadiene	1.615	39	109306	8.090	ppbv	99
17) tert-Butyl alcohol	2.049	59	271487	7.879	ppbv	99
18) 1,1-Dichloroethene	2.042	96	88728	8.125	ppbv	95
19) Isopropyl Alcohol	1.894	45	129131	8.272	ppbv	98
20) Methylene Chloride	2.068	84	76153	7.391	ppbv	92
21) Allyl Chloride	2.104	41	167334	8.576	ppbv	98
22) trans-1,2-Dichloroethene	2.350	96	104449	8.275	ppbv	93
23) Vinyl Acetate	2.473	43	96391	8.050	ppbv #	97
24) 1,1-Dichloroethane	2.418	63	214121	9.152	ppbv	100
25) Ethyl Acetate	2.848	43	639210	8.902	ppbv	99
26) Hexane	2.839	57	246755	8.897	ppbv	100
27) Carbon Disulfide	2.159	76	258412	8.689	ppbv	96
28) Methyl tert-Butyl Ether	2.450	73	142610	8.259	ppbv	94
29) Chloroform	2.861	83	397517	9.793	ppbv	99
30) Cyclohexane	3.874	84	203521	8.451	ppbv	97
31) cis-1,2-Dichloroethene	2.732	61	249591	8.864	ppbv	98
32) 1,1,1-Trichloroethane	3.386	97	406124	8.739	ppbv	98
34) 2-Butanone	2.570	43	362939	9.420	ppbv	99
35) Carbon Tetrachloride	3.781	117	418362	10.079	ppbv	99
36) Benzene	3.674	78	494216	9.382	ppbv	99
37) 1,2-Dichloroethane	3.234	62	314377	10.424	ppbv	98
38) Trichloroethene	4.570	130	202575	9.217	ppbv	97
39) 1,2-Dichloropropane	4.334	63	179485	9.356	ppbv	92
40) 1,4-Dioxane	4.606	88	85103	8.358	ppbv #	93
41) Tetrahydrofuran	3.068	42	201260	9.071	ppbv	98
42) Bromodichloromethane	4.512	83	430763	10.361	ppbv	99
43) Methyl Methacrylate	4.907	69	188872	8.470	ppbv	98
44) 2,2,4-Trimethylpentane	4.664	57	838005	9.414	ppbv	97
45) t-1,3-Dichloropropene	6.444	75	194507	8.130	ppbv	97

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 Data File : VL042230.D
 Acq On : 07 Apr 2025 11:09
 Operator : SY/MD
 Sample : VL0407ABS01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0407ABS01

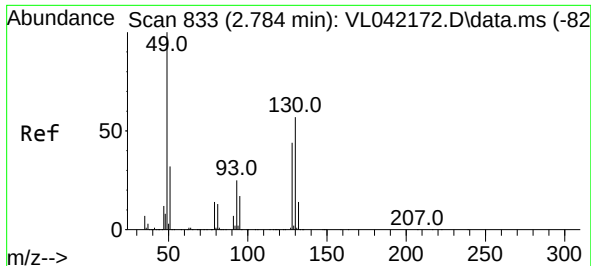
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 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri Mar 28 02:00:52 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.632	75	252229	8.601	ppbv	99
47) 1,1,2-Trichloroethane	6.606	97	201960	9.959	ppbv	95
48) Dibromochloromethane	7.412	129	343914	10.007	ppbv	99
49) Bromoform	9.500	173	302914	9.817	ppbv	99
50) 4-Methyl-2-Pentanone	5.784	43	510960	8.368	ppbv	97
51) 2-Hexanone	7.461	43	415858	8.294	ppbv #	96
52) Tetrachloroethene	8.244	164	174622	8.359	ppbv	96
53) Toluene	6.962	91	562424	9.007	ppbv	99
54) 1,2-Dibromoethane	7.674	107	272683	9.646	ppbv	99
56) 1,1,1,2-Tetrachloroethane	8.943	131	276768	10.608	ppbv	99
57) Chlorobenzene	8.940	112	458748	10.204	ppbv	99
58) Ethyl Benzene	9.373	91	821248	9.754	ppbv	99
59) m/p-Xylene	9.568	91	594110	8.837	ppbv #	9
60) o-Xylene	9.982	91	684704	10.160	ppbv	97
61) Styrene	9.888	104	318889	9.564	ppbv	99
62) Isopropylbenzene	10.555	105	1035385	10.274	ppbv	99
63) 1,1,2,2-Tetrachloroethane	9.979	83	442871	10.816	ppbv	98
64) n-propylbenzene	11.005	120	270373	10.422	ppbv	99
65) tert-Butylbenzene	11.545	119	944630	10.135	ppbv	98
66) Benzyl Chloride	11.629	91	70444	7.123	ppbv	100
67) sec-Butylbenzene	11.782	105	1346681	10.395	ppbv	99
69) p-Isopropyltoluene	11.940	119	1151394	10.321	ppbv	99
70) n-Butylbenzene	12.296	91	1190709	10.437	ppbv	98
71) 2-Chlorotoluene	10.917	91	803764	10.276	ppbv	100
72) 4-Ethyltoluene	11.141	105	867726	10.341	ppbv	99
73) 1,3,5-Trimethylbenzene	11.218	105	750866	10.246	ppbv	97
74) 1,2,4-Trimethylbenzene	11.552	105	832142	9.856	ppbv	93
75) 1,3-Dichlorobenzene	11.623	146	491666	10.618	ppbv	99
76) 1,4-Dichlorobenzene	11.688	146	486784	10.563	ppbv	99
77) 1,2-Dichlorobenzene	11.963	146	480453	10.656	ppbv	99
78) Hexachloro-1,3-Butadiene	13.895	225	375805	8.189	ppbv	99
79) Naphthalene	13.526	128	855353	9.262	ppbv	100
80) Naphthalene,2-methyl-	14.471	142	301864	6.665	ppbv	99
81) 1,2,4-Trichlorobenzene	13.455	180	383097	8.994	ppbv	98

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

Quant Time: Apr 08 01:29:41 2025
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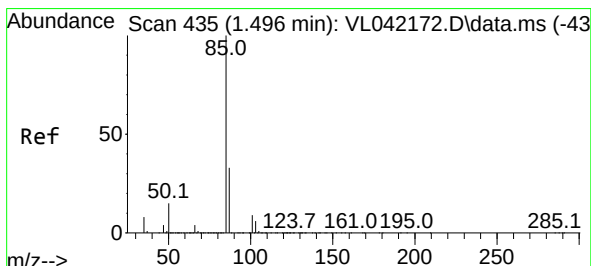
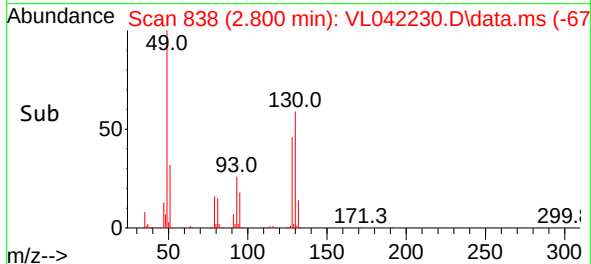
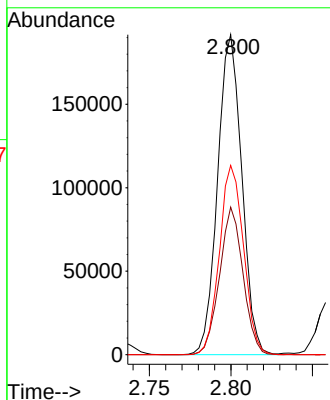
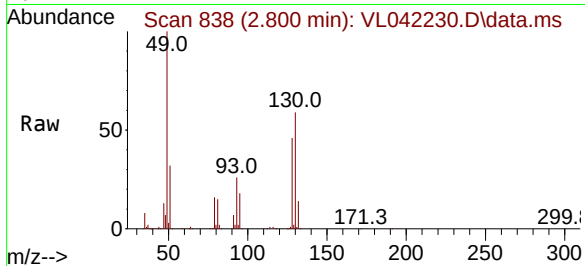




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 2.800 min Scan# 81
 Delta R.T. 0.016 min
 Lab File: VL042230.D
 Acq: 07 Apr 2025 11:09

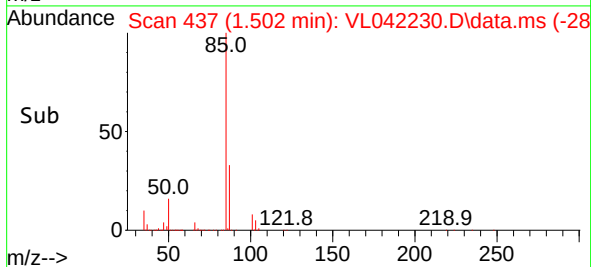
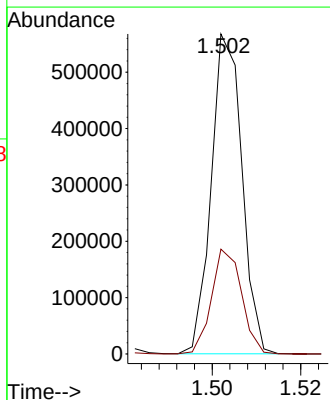
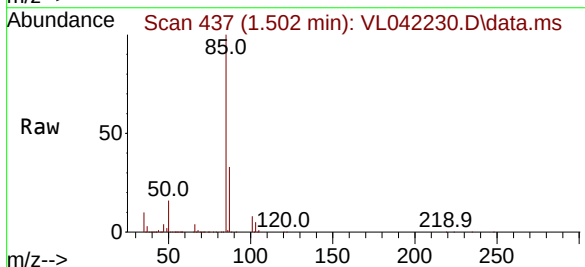
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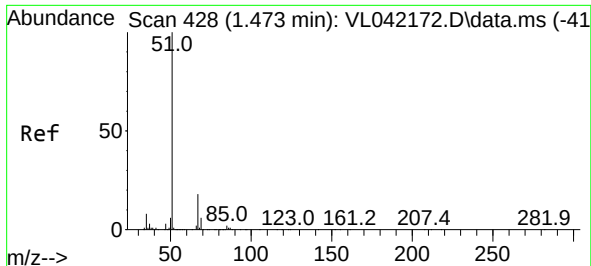
Tgt Ion: 49 Resp: 197822
 Ion Ratio Lower Upper
 49 100
 128 44.6 22.9 68.5
 130 59.0 28.8 86.4



#2
 Dichlorodifluoromethane
 Concen: 9.363 ppbv
 RT: 1.502 min Scan# 437
 Delta R.T. 0.006 min
 Lab File: VL042230.D
 Acq: 07 Apr 2025 11:09

Tgt Ion: 85 Resp: 273487
 Ion Ratio Lower Upper
 85 100
 87 32.7 26.1 39.1

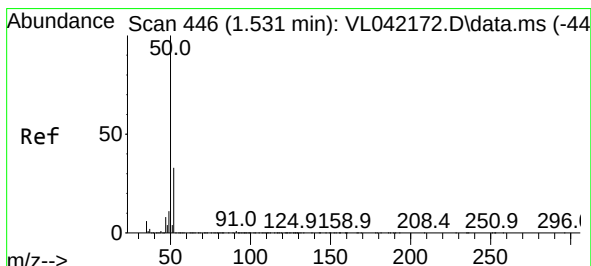
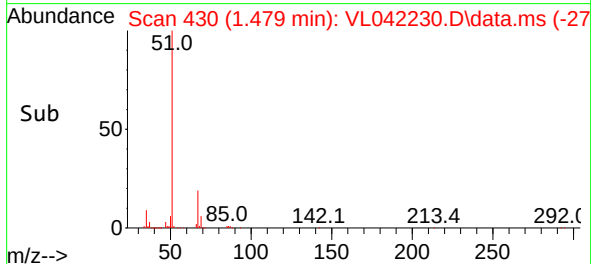
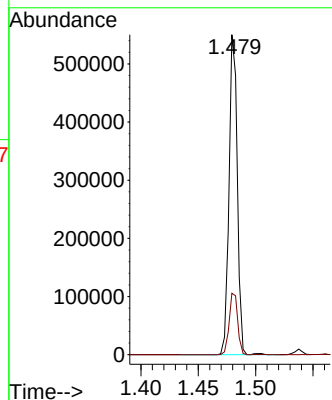
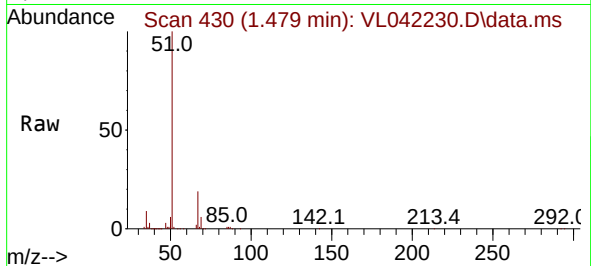




#3
Chlorodifluoromethane
Concen: 9.267 ppbv
RT: 1.479 min Scan# 41
Delta R.T. 0.006 min
Lab File: VL042230.D
Acq: 07 Apr 2025 11:09

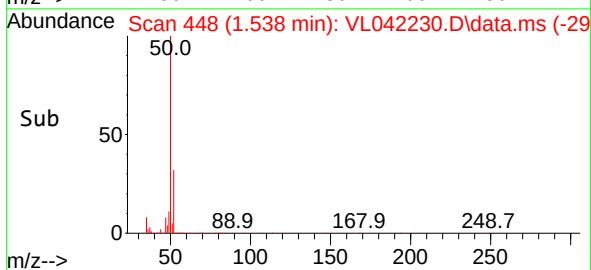
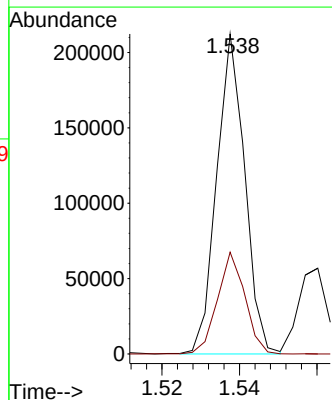
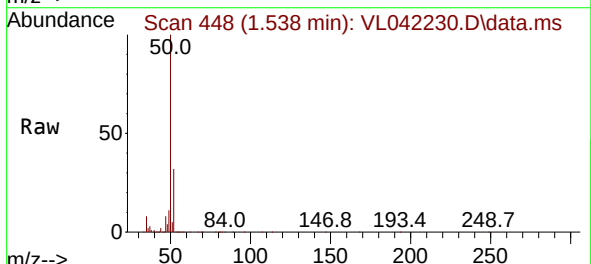
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ClientSampleId :
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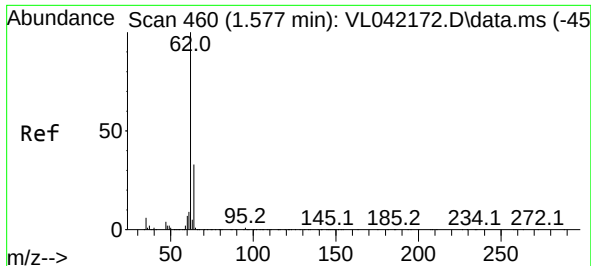
Tgt Ion: 51 Resp: 276521
Ion Ratio Lower Upper
51 100
67 19.9 15.0 22.6



#4
Chloromethane
Concen: 8.944 ppbv
RT: 1.538 min Scan# 448
Delta R.T. 0.006 min
Lab File: VL042230.D
Acq: 07 Apr 2025 11:09

Tgt Ion: 50 Resp: 106766
Ion Ratio Lower Upper
50 100
52 31.8 26.1 39.1

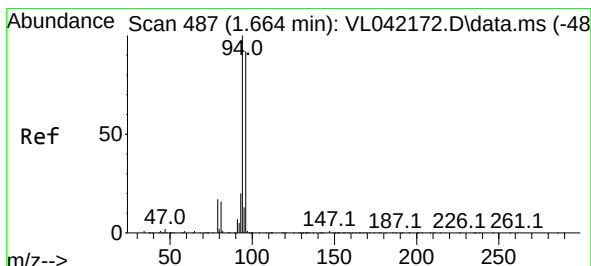
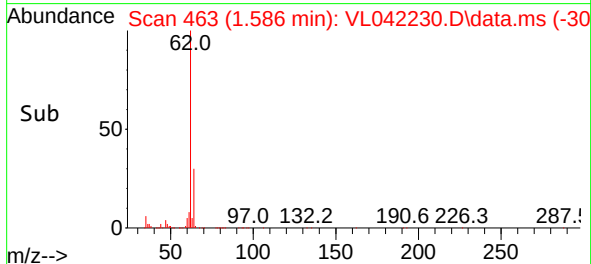
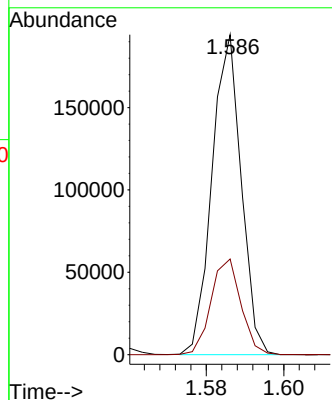
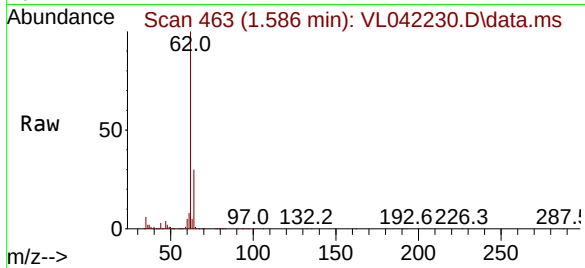




#5
 Vinyl Chloride
 Concen: 8.032 ppbv
 RT: 1.586 min Scan# 4
 Delta R.T. 0.009 min
 Lab File: VL042230.D
 Acq: 07 Apr 2025 11:09

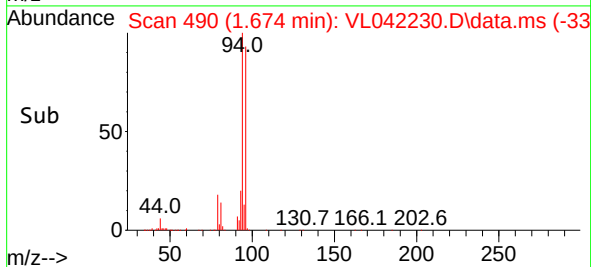
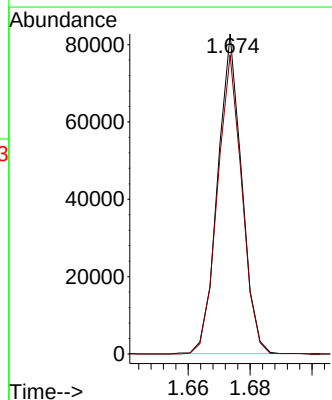
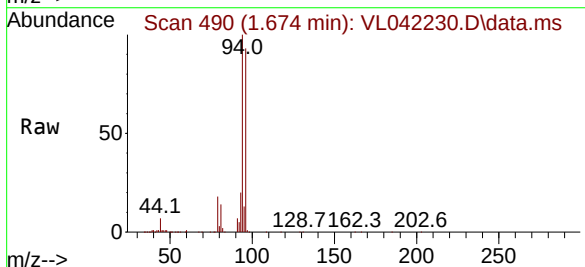
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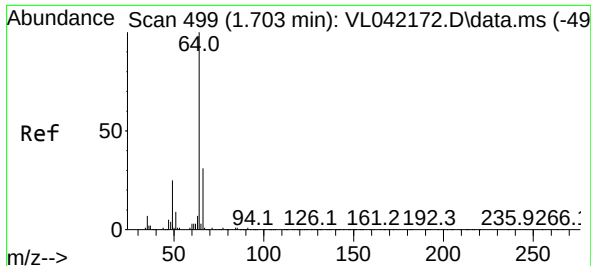
Tgt Ion: 62 Resp: 101600
 Ion Ratio Lower Upper
 62 100
 64 29.8 26.6 40.0



#6
 Bromomethane
 Concen: 8.215 ppbv
 RT: 1.674 min Scan# 490
 Delta R.T. 0.009 min
 Lab File: VL042230.D
 Acq: 07 Apr 2025 11:09

Tgt Ion: 94 Resp: 44439
 Ion Ratio Lower Upper
 94 100
 96 93.6 73.1 109.7

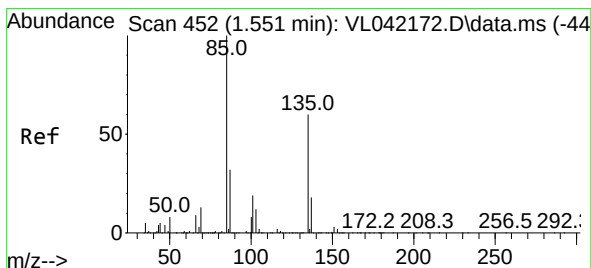
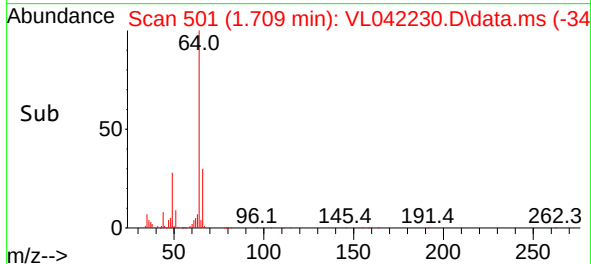
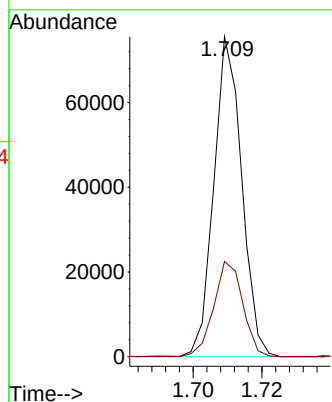
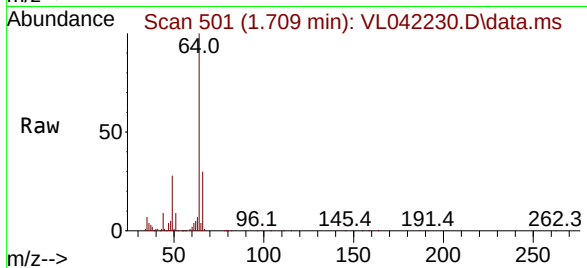




#7
Chloroethane
Concen: 8.861 ppbv
RT: 1.709 min Scan# 501
Delta R.T. 0.006 min
Lab File: VL042230.D
Acq: 07 Apr 2025 11:09

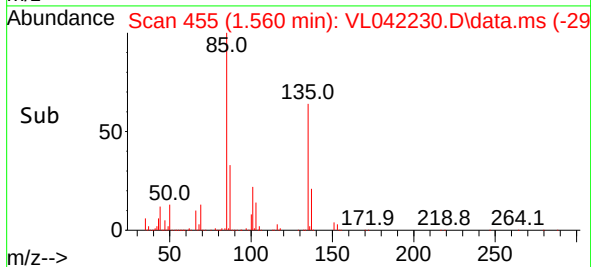
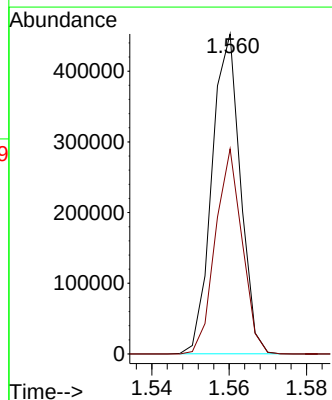
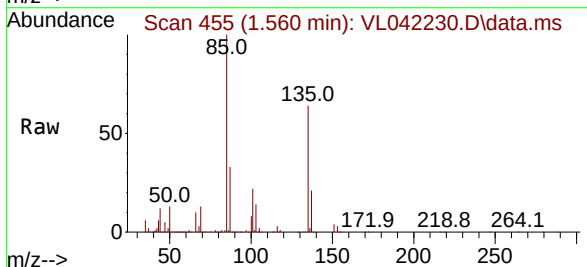
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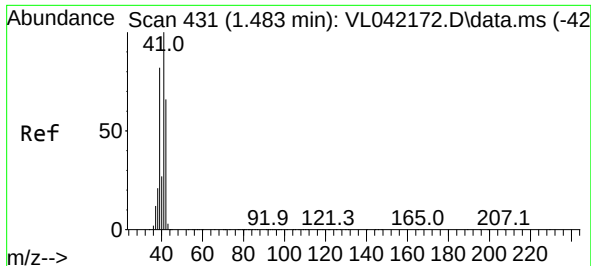
Tgt Ion: 64 Resp: 42458
Ion Ratio Lower Upper
64 100
66 29.8 25.2 37.8



#8
Dichlorotetrafluoroethane
Concen: 9.266 ppbv
RT: 1.560 min Scan# 455
Delta R.T. 0.009 min
Lab File: VL042230.D
Acq: 07 Apr 2025 11:09

Tgt Ion: 85 Resp: 230477
Ion Ratio Lower Upper
85 100
135 60.5 52.4 78.6

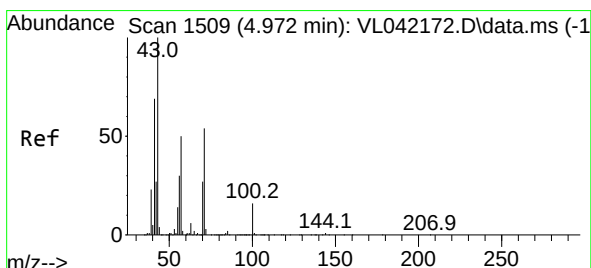
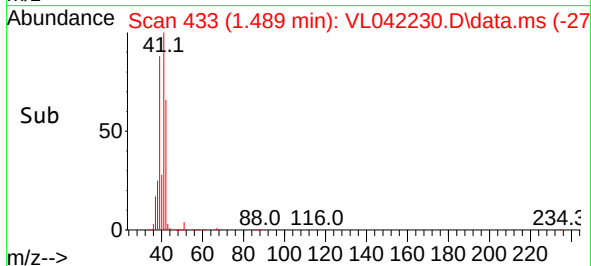
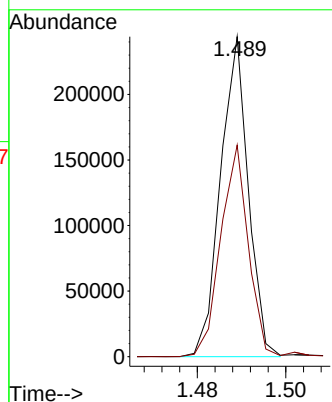
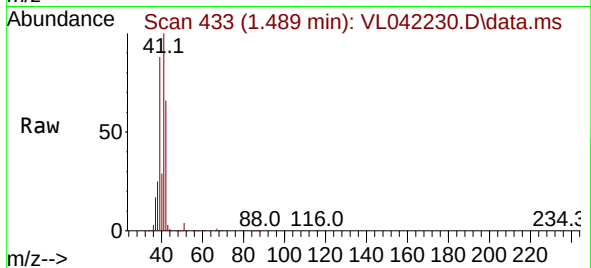




#9
Propene
Concen: 7.768 ppbv
RT: 1.489 min Scan# 41
Delta R.T. 0.006 min
Lab File: VL042230.D
Acq: 07 Apr 2025 11:09

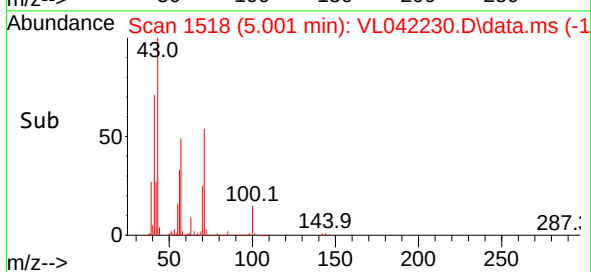
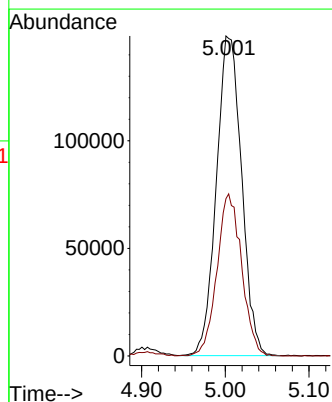
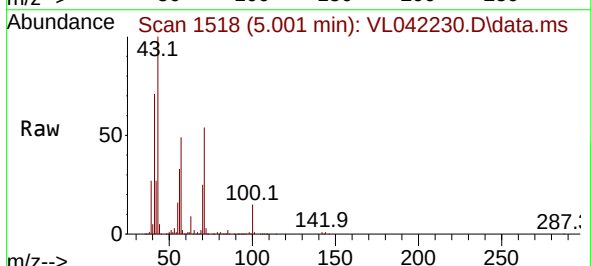
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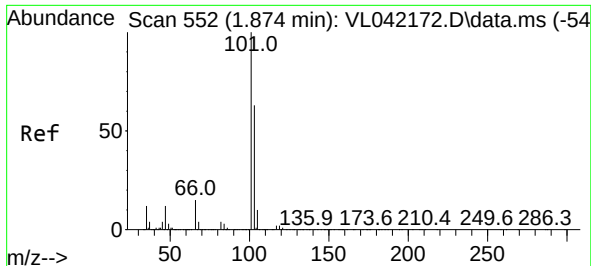
Tgt Ion: 41 Resp: 106235
Ion Ratio Lower Upper
41 100
42 66.9 55.4 83.2



#10
Heptane
Concen: 8.550 ppbv
RT: 5.001 min Scan# 1518
Delta R.T. 0.029 min
Lab File: VL042230.D
Acq: 07 Apr 2025 11:09

Tgt Ion: 43 Resp: 311035
Ion Ratio Lower Upper
43 100
57 49.6 39.4 59.2

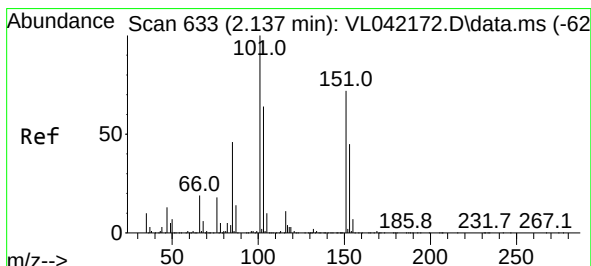
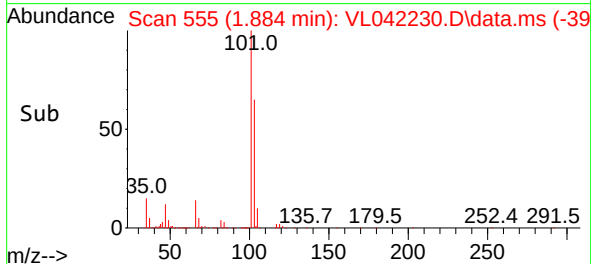
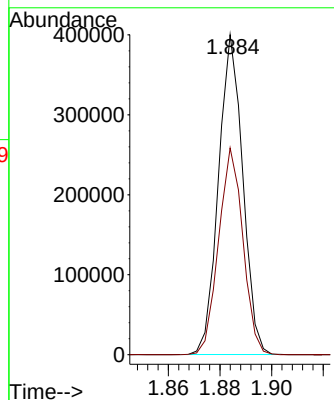
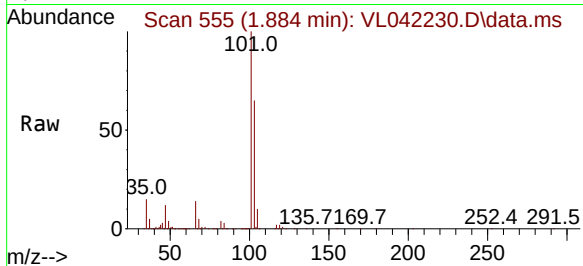




#11
 Trichlorofluoromethane
 Concen: 9.175 ppbv
 RT: 1.884 min Scan# 51
 Delta R.T. 0.009 min
 Lab File: VL042230.D
 Acq: 07 Apr 2025 11:09

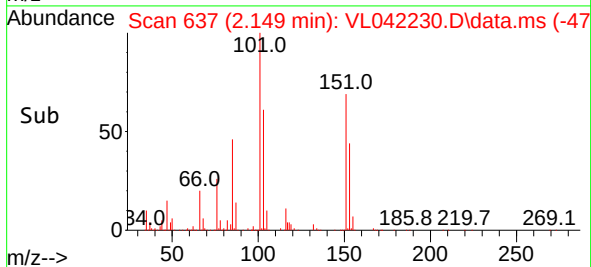
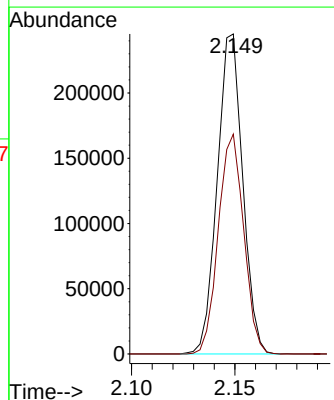
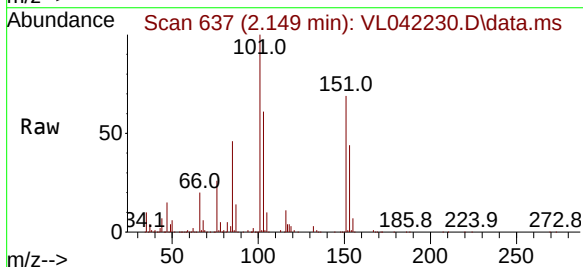
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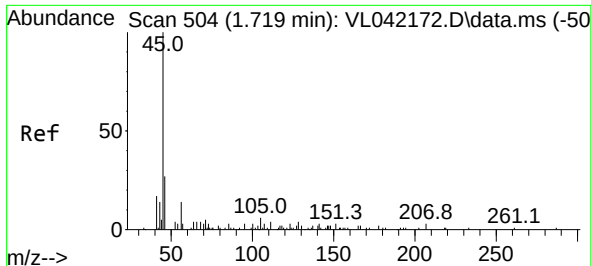
Tgt Ion:101 Resp: 260770
 Ion Ratio Lower Upper
 101 100
 103 64.6 50.2 75.2



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 9.006 ppbv
 RT: 2.149 min Scan# 637
 Delta R.T. 0.013 min
 Lab File: VL042230.D
 Acq: 07 Apr 2025 11:09

Tgt Ion:101 Resp: 210391
 Ion Ratio Lower Upper
 101 100
 151 68.4 57.1 85.7





#13

Ethanol

Concen: 4.172 ppbv

RT: 1.729 min Scan# 504

Delta R.T. 0.009 min

Lab File: VL042230.D

Acq: 07 Apr 2025 11:09

Instrument :

MSVOA_L

ClientSampleId :

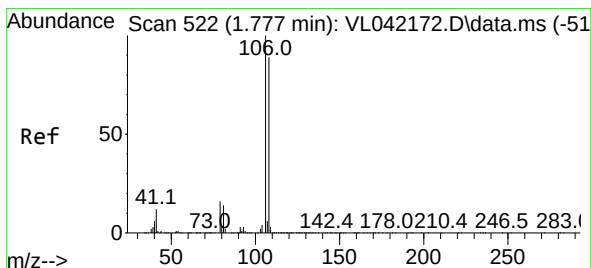
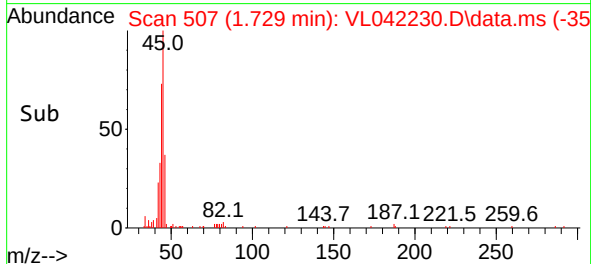
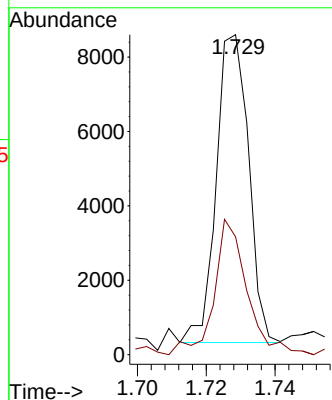
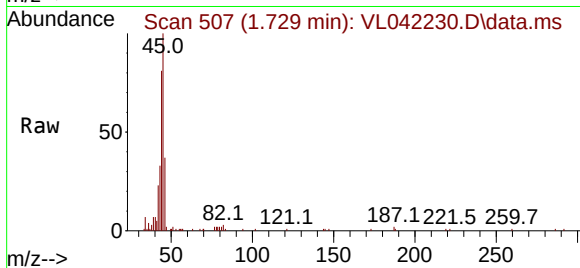
VL0407ABS01

Tgt Ion: 45 Resp: 5394

Ion Ratio Lower Upper

45 100

46 48.4 20.2 80.8



#14

Bromoethene

Concen: 8.016 ppbv

RT: 1.787 min Scan# 525

Delta R.T. 0.009 min

Lab File: VL042230.D

Acq: 07 Apr 2025 11:09

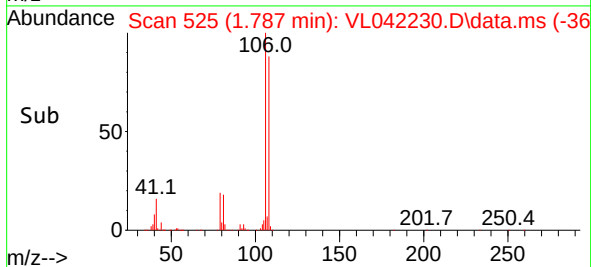
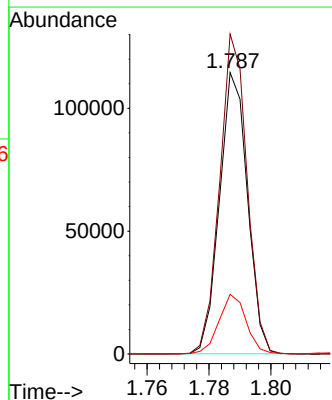
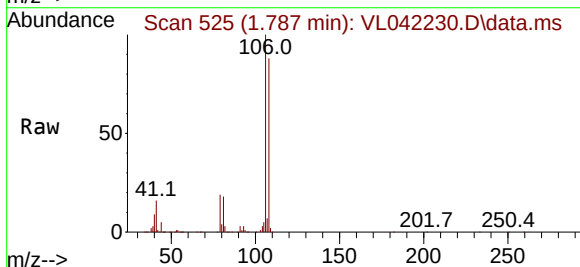
Tgt Ion: 108 Resp: 71737

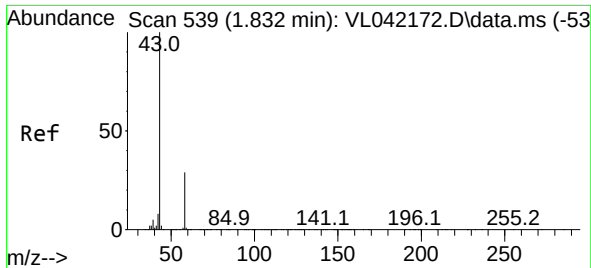
Ion Ratio Lower Upper

108 100

106 111.4 86.8 130.2

79 21.4 15.0 22.6





#15

Acetone

Concen: 8.330 ppbv

RT: 1.842 min Scan# 54

Delta R.T. 0.009 min

Lab File: VL042230.D

Acq: 07 Apr 2025 11:09

Instrument :

MSVOA_L

ClientSampleId :

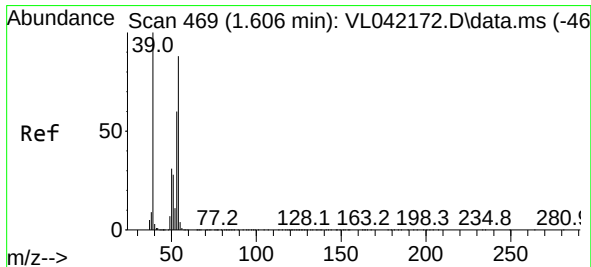
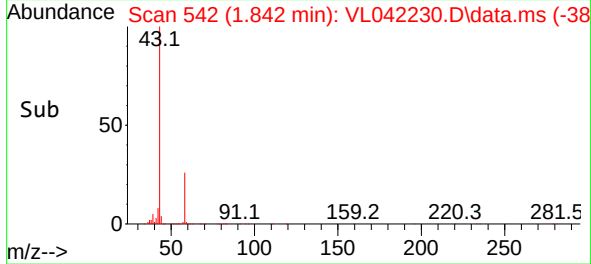
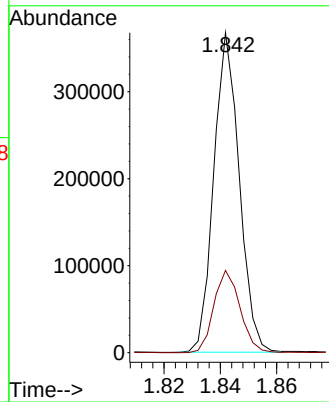
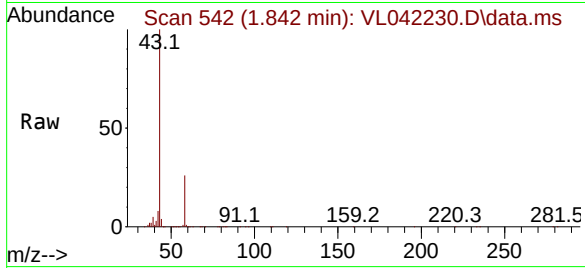
VL0407ABS01

Tgt Ion: 43 Resp: 230460

Ion Ratio Lower Upper

43 100

58 26.7 23.2 34.8



#16

1,3-Butadiene

Concen: 8.090 ppbv

RT: 1.615 min Scan# 472

Delta R.T. 0.009 min

Lab File: VL042230.D

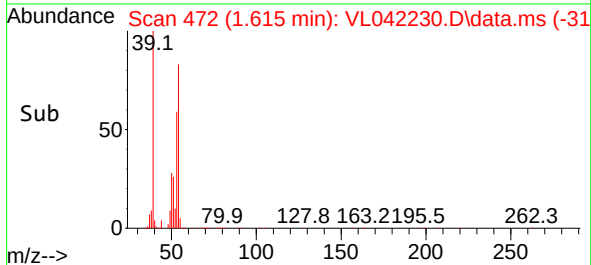
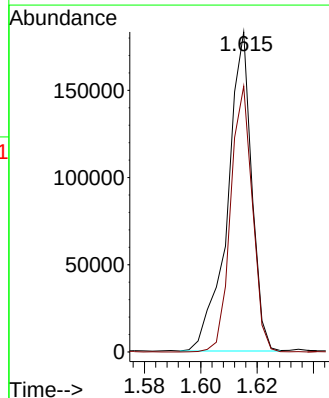
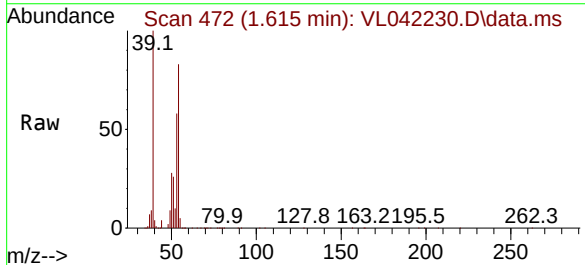
Acq: 07 Apr 2025 11:09

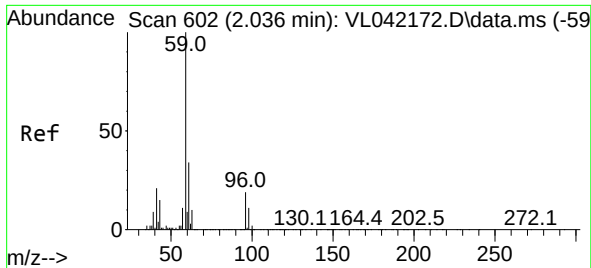
Tgt Ion: 39 Resp: 109306

Ion Ratio Lower Upper

39 100

54 74.7 60.7 91.1





#17

tert-Butyl alcohol

Concen: 7.879 ppbv

RT: 2.049 min Scan# 606

Delta R.T. 0.013 min

Lab File: VL042230.D

Acq: 07 Apr 2025 11:09

Instrument :

MSVOA_L

ClientSampleId :

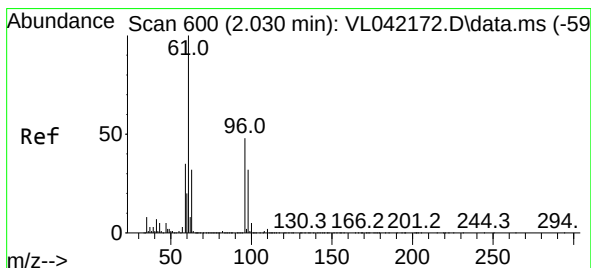
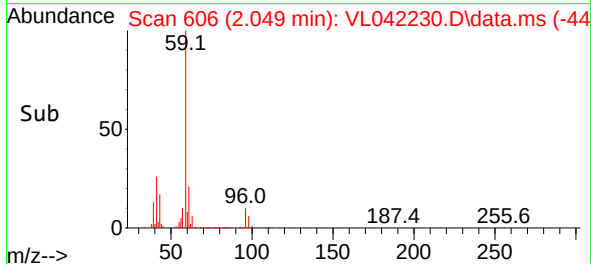
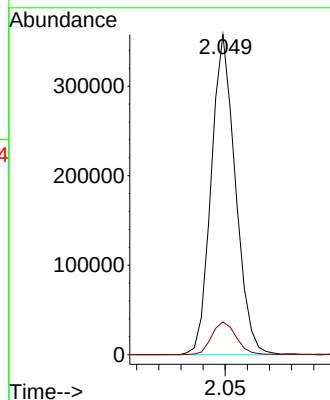
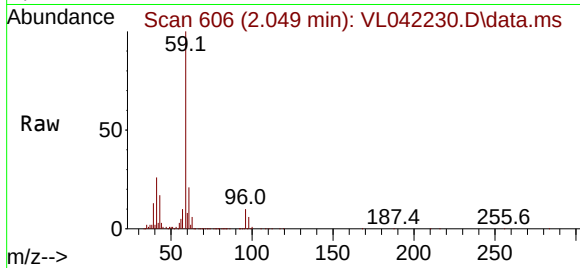
VL0407ABS01

Tgt Ion: 59 Resp: 271487

Ion Ratio Lower Upper

59 100

57 10.7 8.9 13.3



#18

1,1-Dichloroethene

Concen: 8.125 ppbv

RT: 2.042 min Scan# 604

Delta R.T. 0.013 min

Lab File: VL042230.D

Acq: 07 Apr 2025 11:09

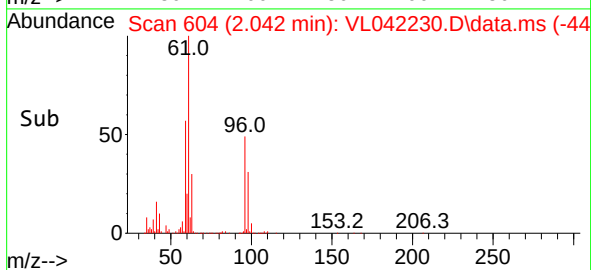
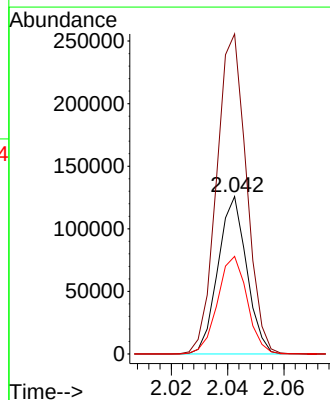
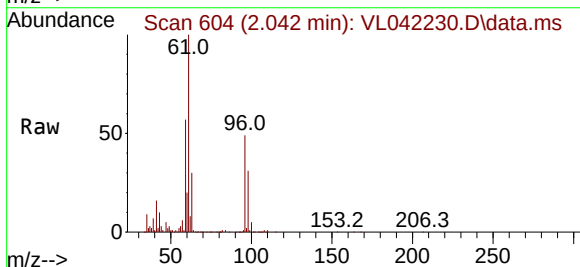
Tgt Ion: 96 Resp: 88728

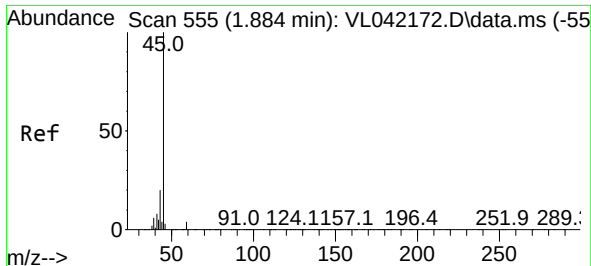
Ion Ratio Lower Upper

96 100

61 203.0 167.6 251.4

98 62.0 53.5 80.3

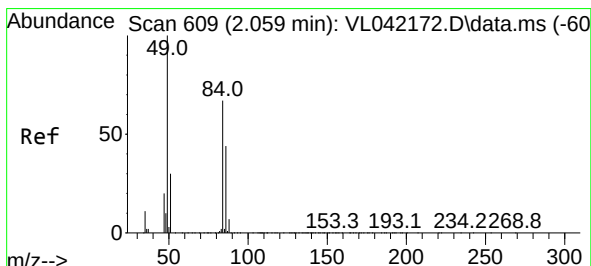
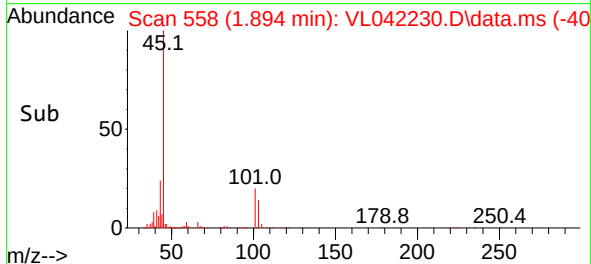
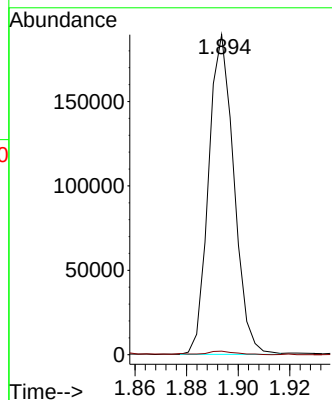
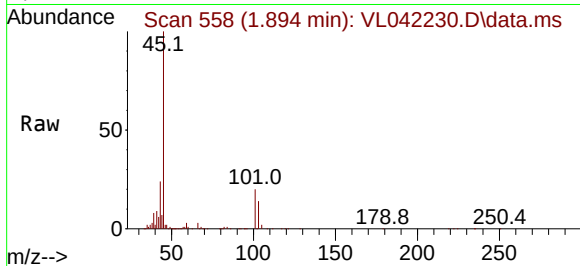




#19
Isopropyl Alcohol
Concen: 8.272 ppbv
RT: 1.894 min Scan# 51
Delta R.T. 0.009 min
Lab File: VL042230.D
Acq: 07 Apr 2025 11:09

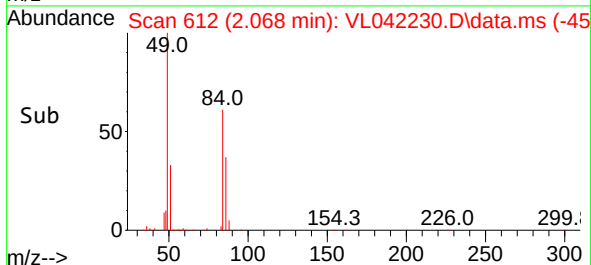
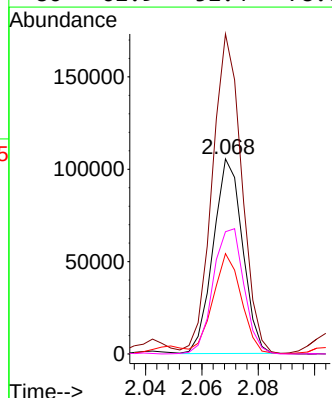
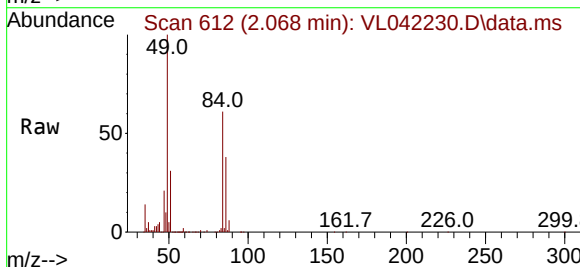
Instrument :
MSVOA_1
ClientSampleId :
VL0407ABS01

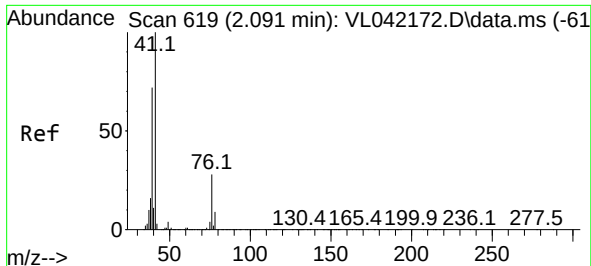
Tgt Ion: 45 Resp: 129131
Ion Ratio Lower Upper
45 100
58 47.5 36.9 55.3



#20
Methylene Chloride
Concen: 7.391 ppbv
RT: 2.068 min Scan# 612
Delta R.T. 0.009 min
Lab File: VL042230.D
Acq: 07 Apr 2025 11:09

Tgt Ion: 84 Resp: 76153
Ion Ratio Lower Upper
84 100
49 164.4 120.2 180.4
51 51.4 37.4 56.0
86 62.9 52.4 78.6

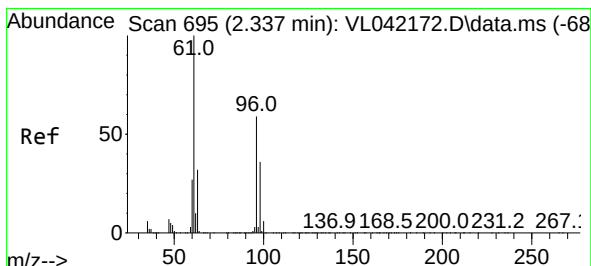
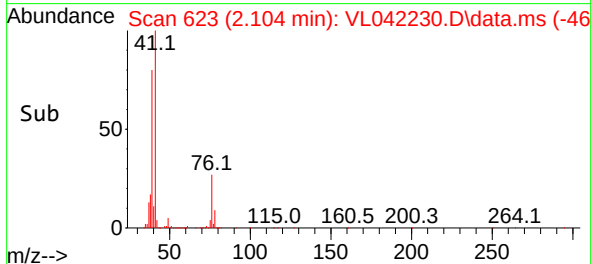
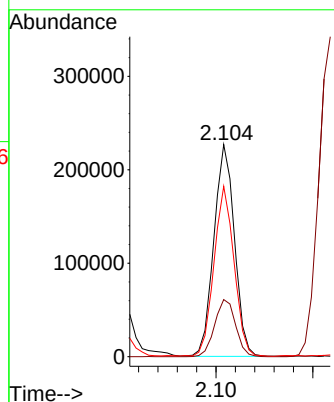
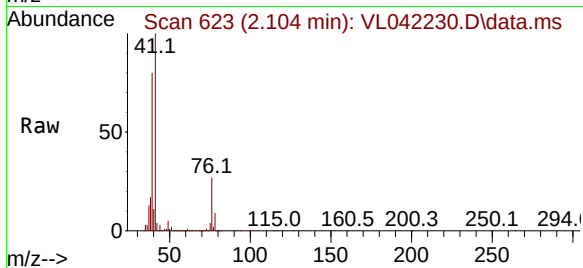




#21
 Allyl Chloride
 Concen: 8.576 ppbv
 RT: 2.104 min Scan# 619
 Delta R.T. 0.013 min
 Lab File: VL042230.D
 Acq: 07 Apr 2025 11:09

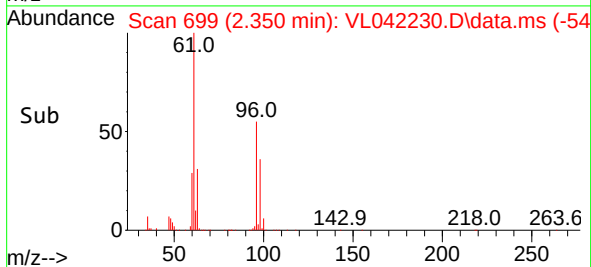
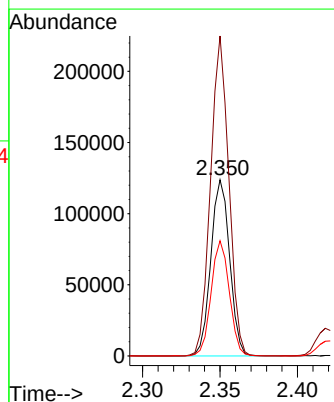
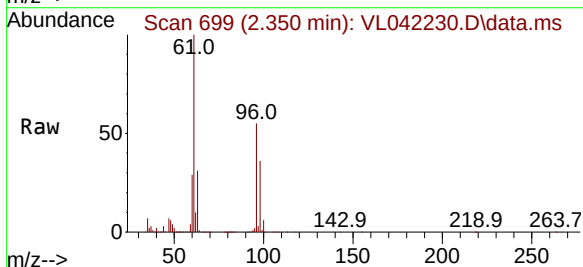
Instrument :
 MSVOA_1
 ClientSampleId :
 VL0407ABS01

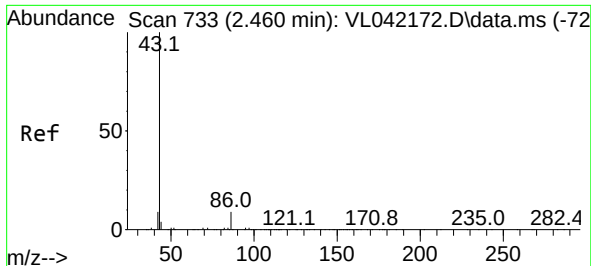
Tgt Ion: 41 Resp: 167334
 Ion Ratio Lower Upper
 41 100
 76 27.4 24.1 36.1
 39 77.4 61.1 91.7



#22
 trans-1,2-Dichloroethene
 Concen: 8.275 ppbv
 RT: 2.350 min Scan# 699
 Delta R.T. 0.013 min
 Lab File: VL042230.D
 Acq: 07 Apr 2025 11:09

Tgt Ion: 96 Resp: 104449
 Ion Ratio Lower Upper
 96 100
 61 181.6 136.6 204.8
 98 65.4 49.4 74.2

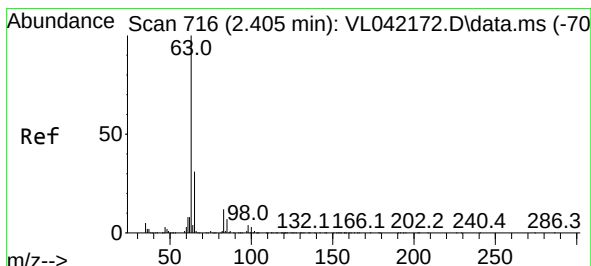
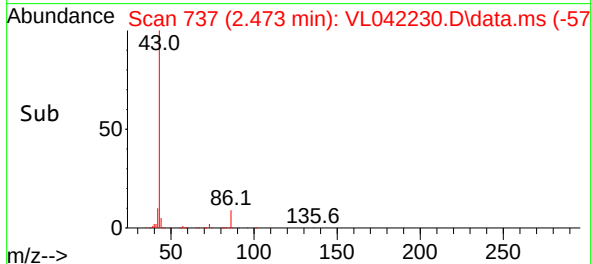
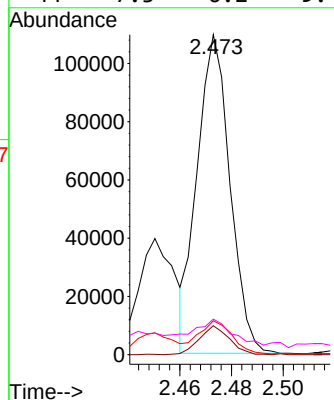
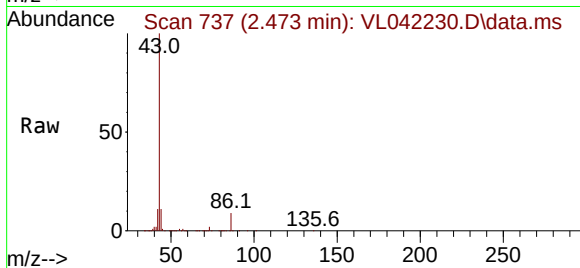




#23
 Vinyl Acetate
 Concen: 8.050 ppbv
 RT: 2.473 min Scan# 71
 Delta R.T. 0.013 min
 Lab File: VL042230.D
 Acq: 07 Apr 2025 11:09

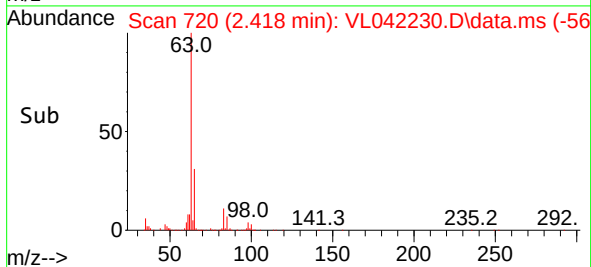
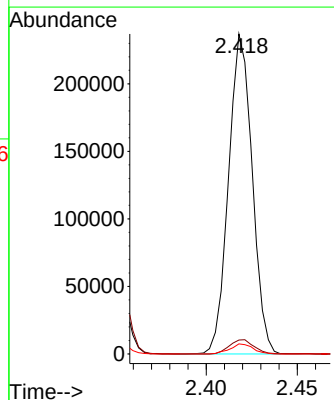
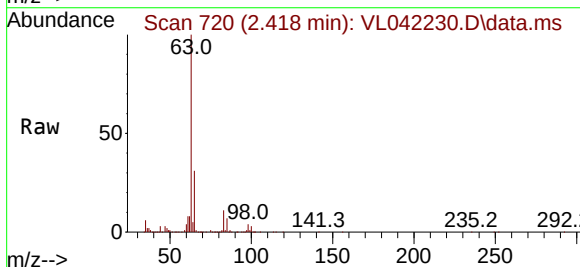
Instrument :
 MSVOA_L
 ClientSampleId :
 VL0407ABS01

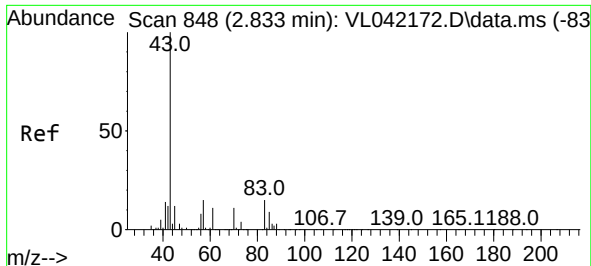
Tgt Ion: 43	Resp: 96391
Ion Ratio	Lower Upper
43 100	
86 8.8	5.5 8.3#
42 10.3	8.6 13.0
44 7.3	6.2 9.4



#24
 1,1-Dichloroethane
 Concen: 9.152 ppbv
 RT: 2.418 min Scan# 720
 Delta R.T. 0.013 min
 Lab File: VL042230.D
 Acq: 07 Apr 2025 11:09

Tgt Ion: 63	Resp: 214121
Ion Ratio	Lower Upper
63 100	
98 4.3	2.3 6.8
100 3.2	1.6 4.7



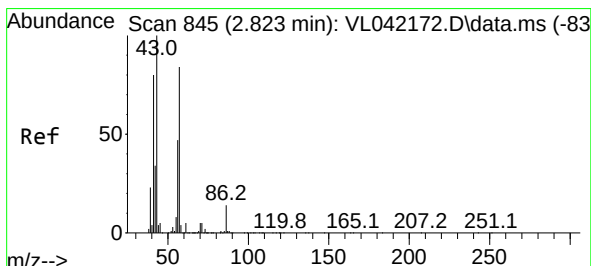
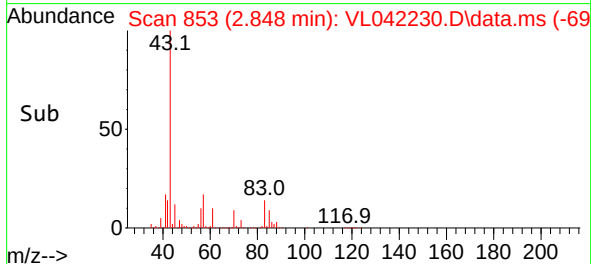
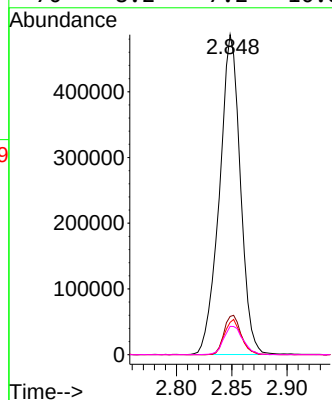
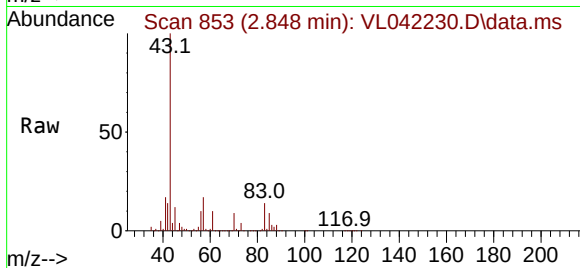


#25
Ethyl Acetate
Concen: 8.902 ppbv
RT: 2.848 min Scan# 81
Delta R.T. 0.016 min
Lab File: VL042230.D
Acq: 07 Apr 2025 11:09

Instrument :
MSVOA_L
ClientSampleId :
VL0407ABS01

Tgt Ion: 43 Resp: 639210

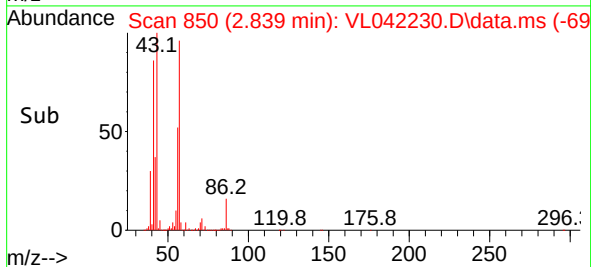
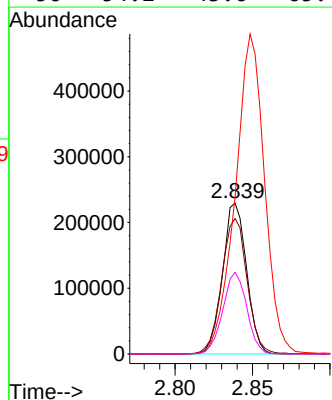
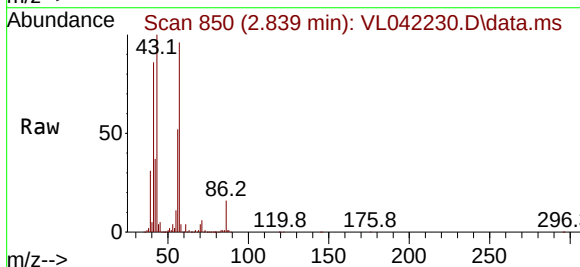
Ion	Ratio	Lower	Upper
43	100		
45	10.1	8.2	12.2
61	8.9	7.3	10.9
70	8.2	7.2	10.8

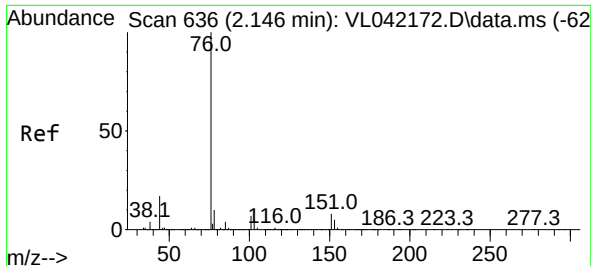


#26
Hexane
Concen: 8.897 ppbv
RT: 2.839 min Scan# 850
Delta R.T. 0.016 min
Lab File: VL042230.D
Acq: 07 Apr 2025 11:09

Tgt Ion: 57 Resp: 246755

Ion	Ratio	Lower	Upper
57	100		
41	96.1	76.6	114.8
43	259.7	207.8	311.8
56	54.2	43.6	65.4

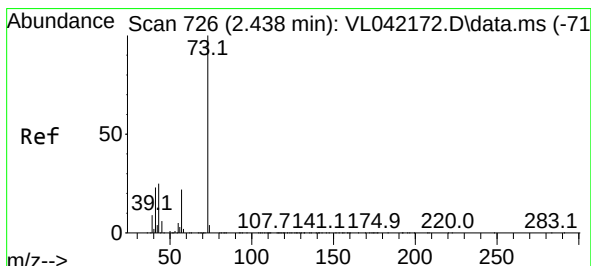
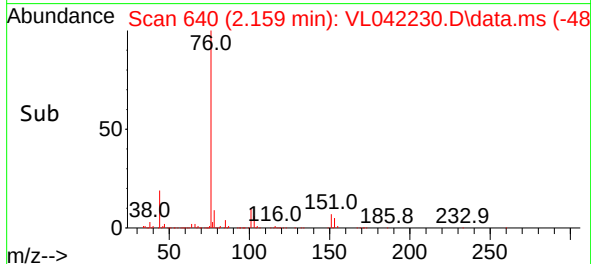
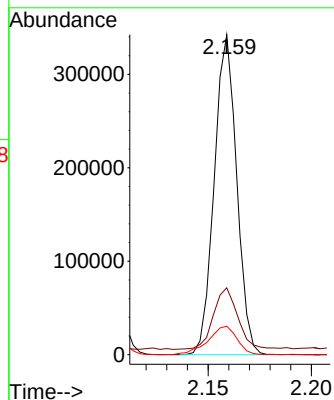
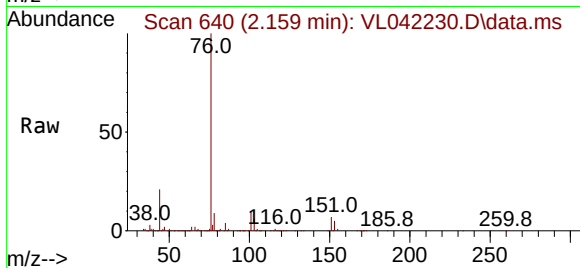




#27
Carbon Disulfide
Concen: 8.689 ppbv
RT: 2.159 min Scan# 640
Delta R.T. 0.013 min
Lab File: VL042230.D
Acq: 07 Apr 2025 11:09

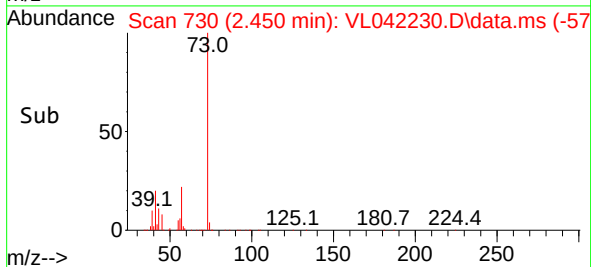
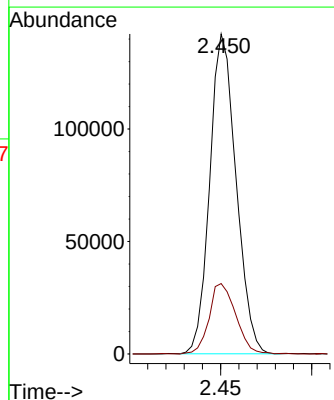
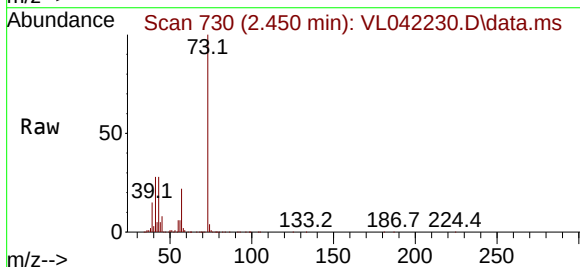
Instrument :
MSVOA_1
ClientSampleId :
VL0407ABS01

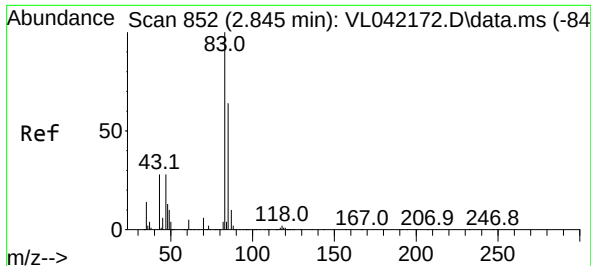
Tgt Ion: 76 Resp: 258412
Ion Ratio Lower Upper
76 100
44 20.9 14.7 22.1
78 11.5 9.3 13.9



#28
Methyl tert-Butyl Ether
Concen: 8.259 ppbv
RT: 2.450 min Scan# 730
Delta R.T. 0.013 min
Lab File: VL042230.D
Acq: 07 Apr 2025 11:09

Tgt Ion: 73 Resp: 142610
Ion Ratio Lower Upper
73 100
57 22.4 20.5 30.7





#29

Chloroform

Concen: 9.793 ppbv

RT: 2.861 min Scan# 81

Delta R.T. 0.016 min

Lab File: VL042230.D

Acq: 07 Apr 2025 11:09

Instrument :

MSVOA_L

ClientSampleId :

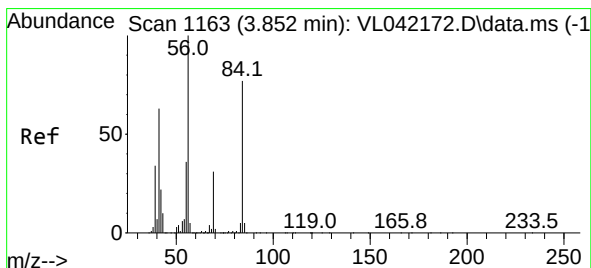
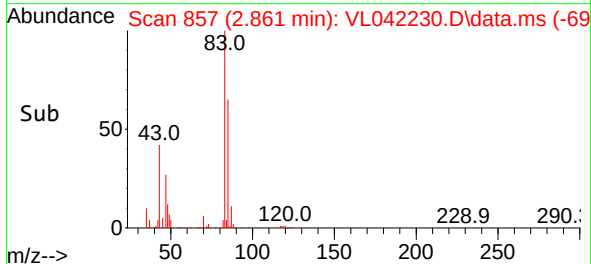
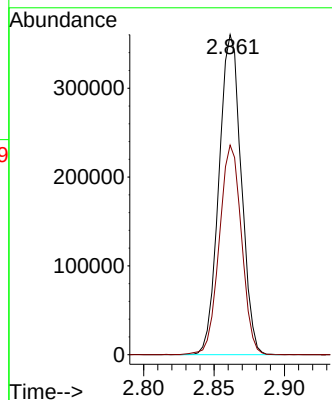
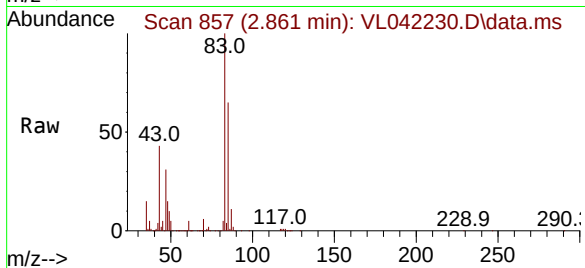
VL0407ABS01

Tgt Ion: 83 Resp: 397517

Ion Ratio Lower Upper

83 100

85 65.4 51.4 77.2



#30

Cyclohexane

Concen: 8.451 ppbv

RT: 3.874 min Scan# 1170

Delta R.T. 0.022 min

Lab File: VL042230.D

Acq: 07 Apr 2025 11:09

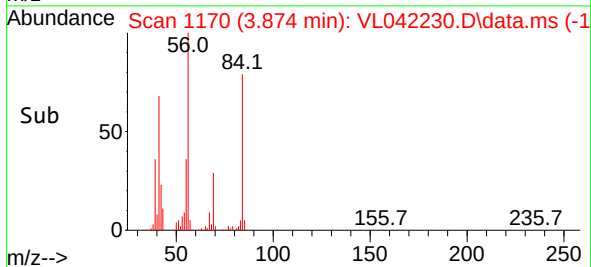
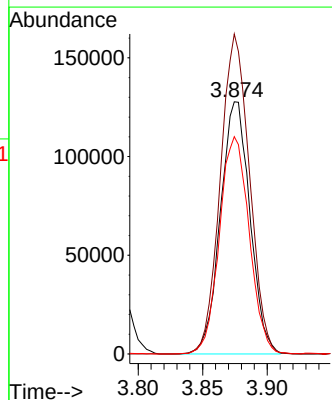
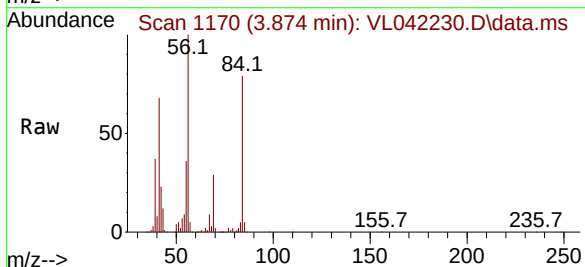
Tgt Ion: 84 Resp: 203521

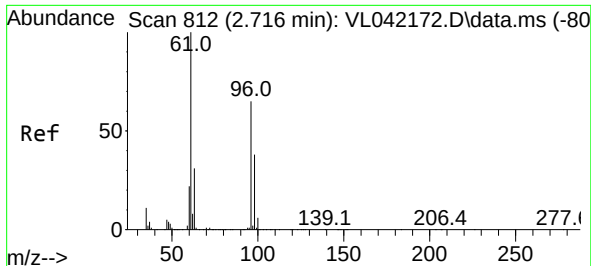
Ion Ratio Lower Upper

84 100

56 125.0 102.8 154.2

41 86.8 66.5 99.7

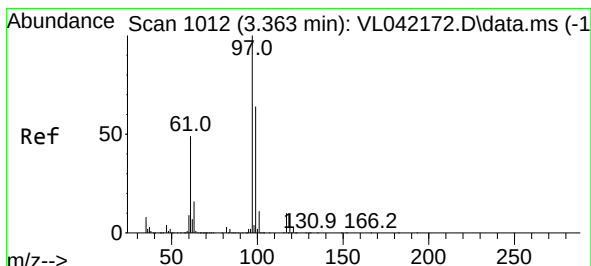
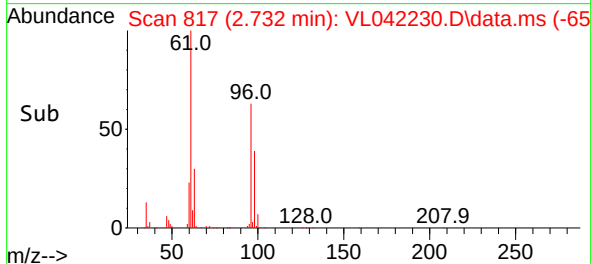
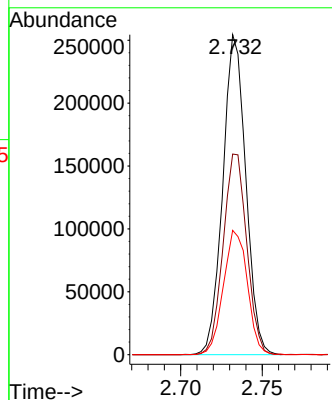
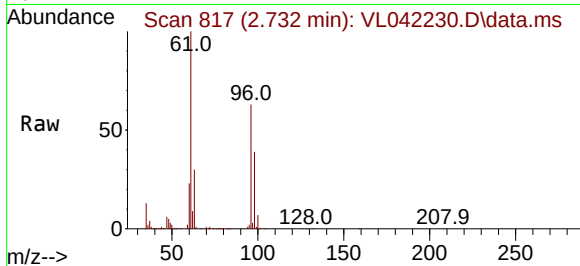




#31
 cis-1,2-Dichloroethene
 Concen: 8.864 ppbv
 RT: 2.732 min Scan# 81
 Delta R.T. 0.016 min
 Lab File: VL042230.D
 Acq: 07 Apr 2025 11:09

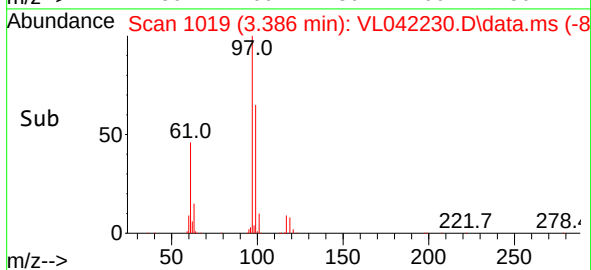
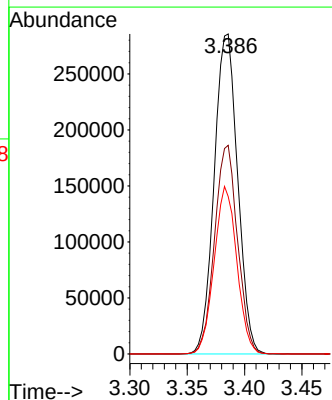
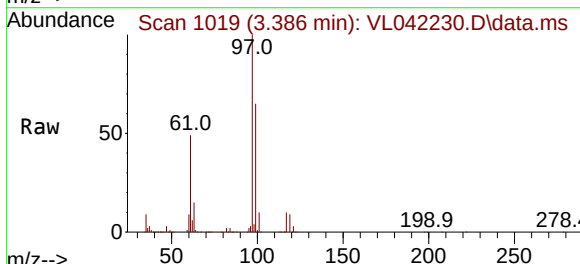
Instrument :
 MSVOA_L
 ClientSampleId :
 VL0407ABS01

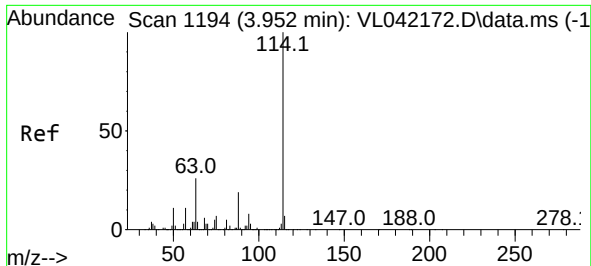
Tgt Ion: 61 Resp: 249591
 Ion Ratio Lower Upper
 61 100
 96 62.7 51.8 77.8
 98 38.8 30.6 46.0



#32
 1,1,1-Trichloroethane
 Concen: 8.739 ppbv
 RT: 3.386 min Scan# 1019
 Delta R.T. 0.022 min
 Lab File: VL042230.D
 Acq: 07 Apr 2025 11:09

Tgt Ion: 97 Resp: 406124
 Ion Ratio Lower Upper
 97 100
 99 64.0 51.5 77.3
 61 50.7 38.7 58.1





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.978 min Scan# 1194

Delta R.T. 0.026 min

Lab File: VL042230.D

Acq: 07 Apr 2025 11:09

Instrument :

MSVOA_1

ClientSampleId :

VL0407ABS01

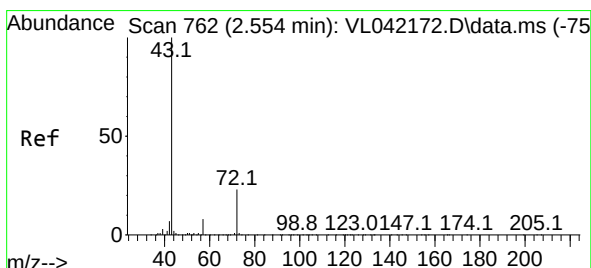
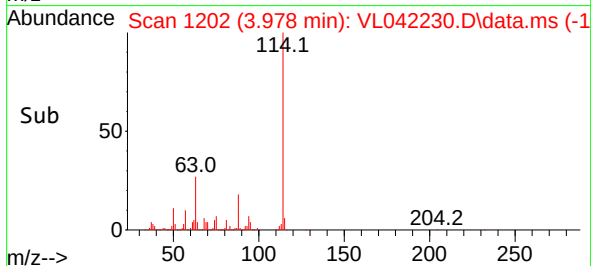
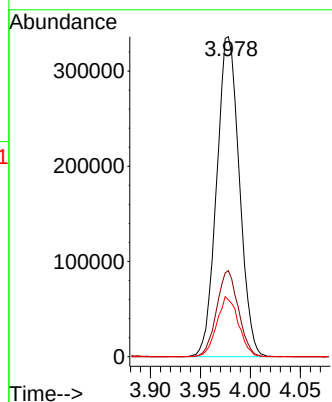
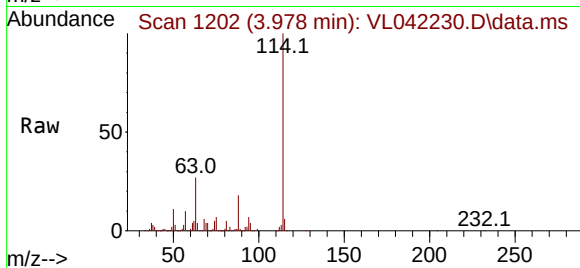
Tgt Ion:114 Resp: 531347

Ion Ratio Lower Upper

114 100

63 25.9 20.7 31.1

88 18.0 15.0 22.4



#34

2-Butanone

Concen: 9.420 ppbv

RT: 2.570 min Scan# 767

Delta R.T. 0.016 min

Lab File: VL042230.D

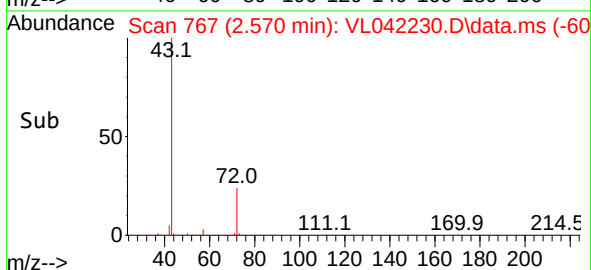
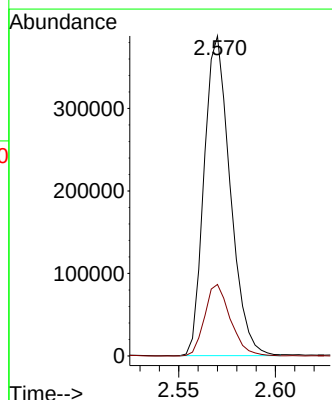
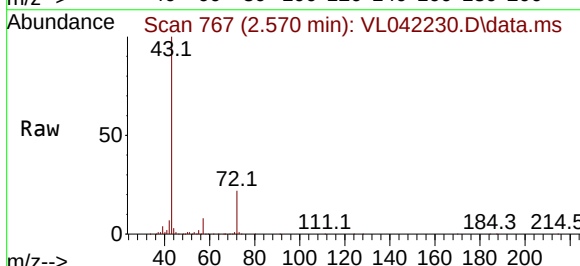
Acq: 07 Apr 2025 11:09

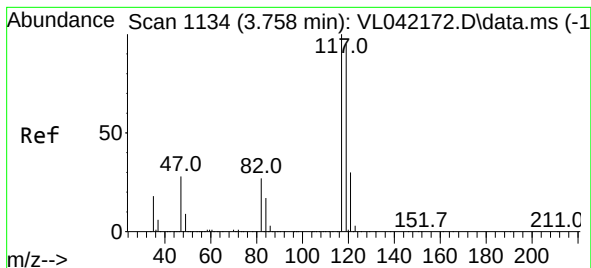
Tgt Ion: 43 Resp: 362939

Ion Ratio Lower Upper

43 100

72 22.3 18.2 27.2





#35

Carbon Tetrachloride

Concen: 10.079 ppbv

RT: 3.781 min Scan# 1141

Delta R.T. 0.022 min

Lab File: VL042230.D

Acq: 07 Apr 2025 11:09

Instrument :

MSVOA_L

ClientSampleId :

VL0407ABS01

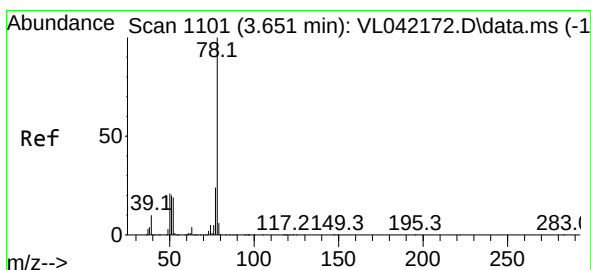
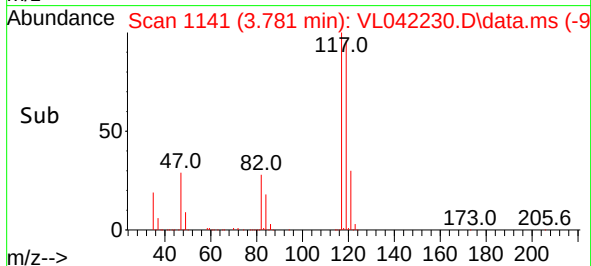
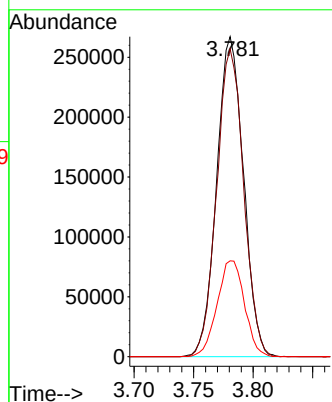
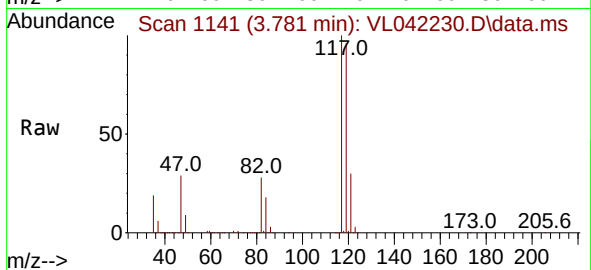
Tgt Ion:117 Resp: 418362

Ion Ratio Lower Upper

117 100

119 96.2 76.2 114.2

121 29.9 24.2 36.4



#36

Benzene

Concen: 9.382 ppbv

RT: 3.674 min Scan# 1108

Delta R.T. 0.022 min

Lab File: VL042230.D

Acq: 07 Apr 2025 11:09

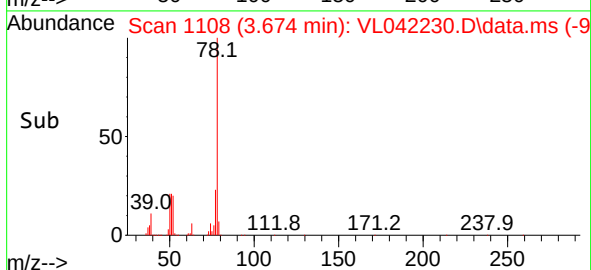
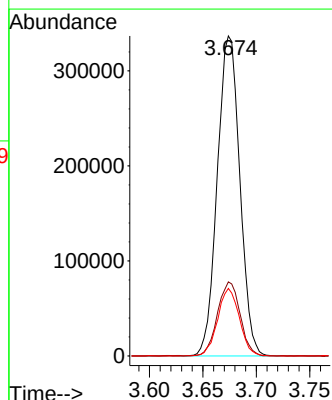
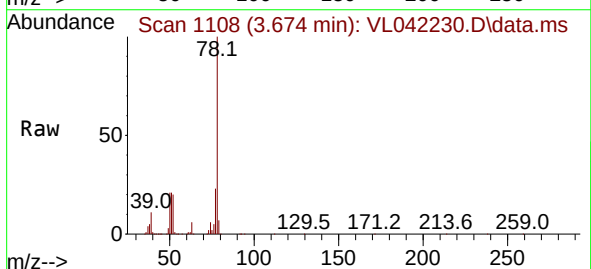
Tgt Ion: 78 Resp: 494216

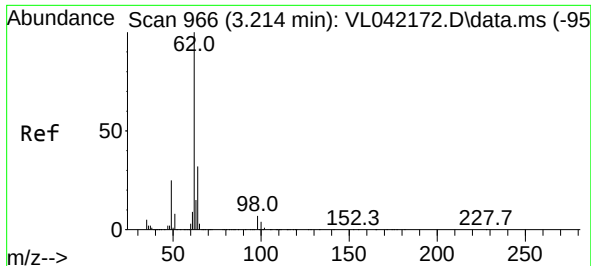
Ion Ratio Lower Upper

78 100

77 23.1 19.1 28.7

50 21.1 16.6 24.8





#37

1,2-Dichloroethane

Concen: 10.424 ppbv

RT: 3.234 min Scan# 91

Delta R.T. 0.019 min

Lab File: VL042230.D

Acq: 07 Apr 2025 11:09

Instrument :

MSVOA_L

ClientSampleId :

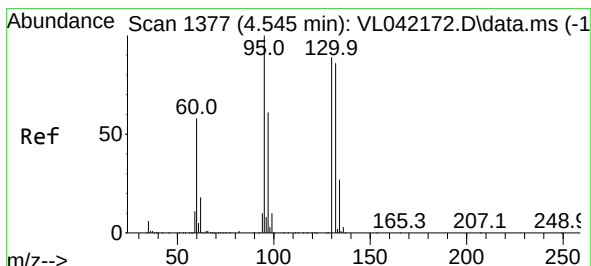
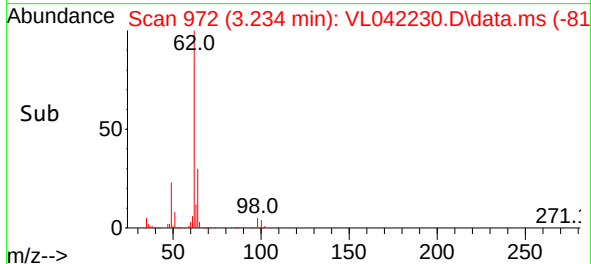
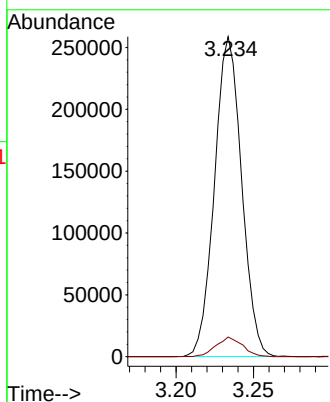
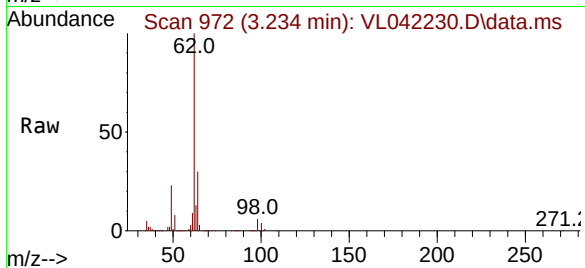
VL0407ABS01

Tgt Ion: 62 Resp: 314377

Ion Ratio Lower Upper

62 100

98 6.0 5.4 8.2



#38

Trichloroethene

Concen: 9.217 ppbv

RT: 4.570 min Scan# 1385

Delta R.T. 0.026 min

Lab File: VL042230.D

Acq: 07 Apr 2025 11:09

Tgt Ion:130 Resp: 202575

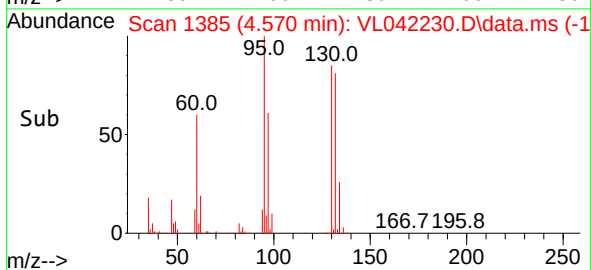
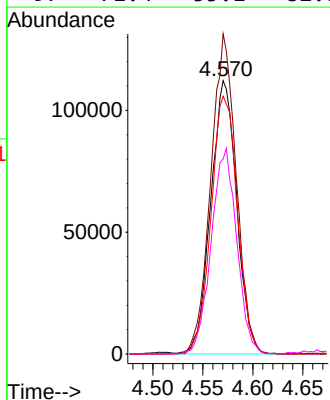
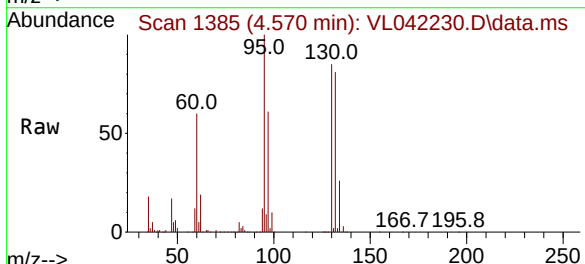
Ion Ratio Lower Upper

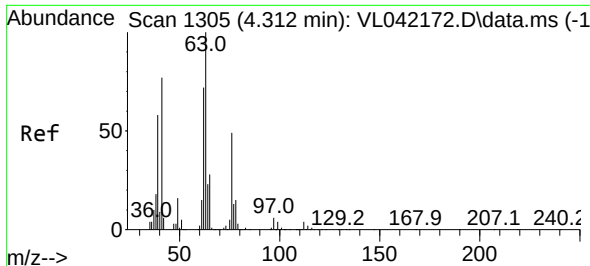
130 100

95 117.1 89.8 134.8

132 94.3 77.4 116.2

97 71.4 55.1 82.7





#39

1,2-Dichloropropane

Concen: 9.356 ppbv

RT: 4.334 min Scan# 11

Delta R.T. 0.022 min

Lab File: VL042230.D

Acq: 07 Apr 2025 11:09

Instrument :

MSVOA_L

ClientSampleId :

VL0407ABS01

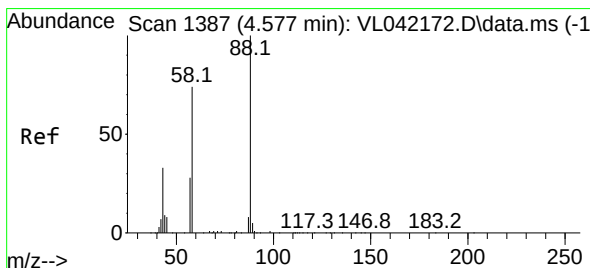
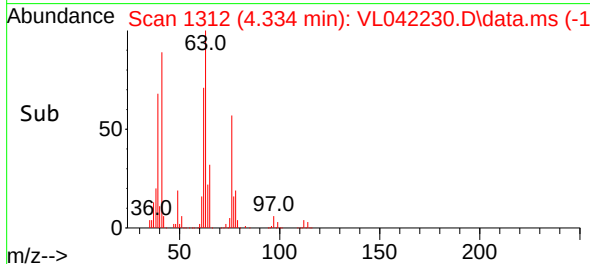
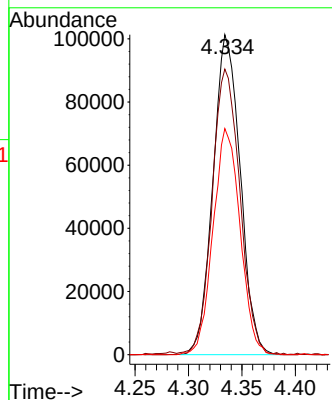
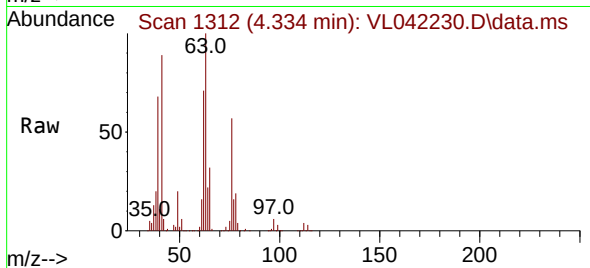
Tgt Ion: 63 Resp: 179485

Ion Ratio Lower Upper

63 100

41 89.1 61.7 92.5

62 70.5 57.6 86.4



#40

1,4-Dioxane

Concen: 8.358 ppbv

RT: 4.606 min Scan# 1396

Delta R.T. 0.029 min

Lab File: VL042230.D

Acq: 07 Apr 2025 11:09

Tgt Ion: 88 Resp: 85103

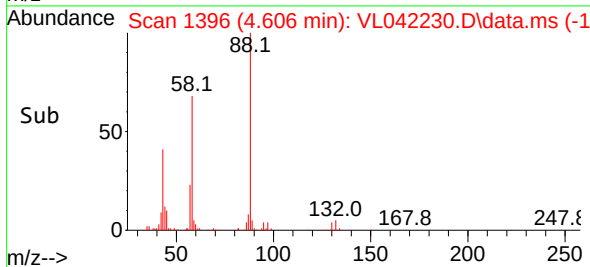
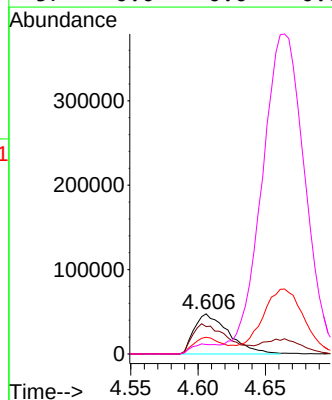
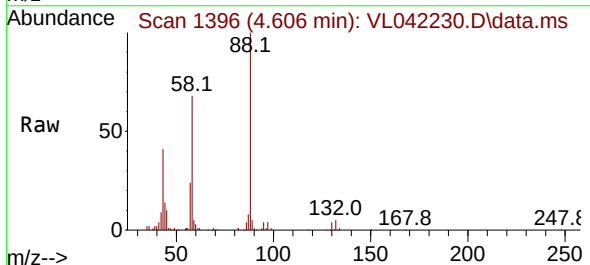
Ion Ratio Lower Upper

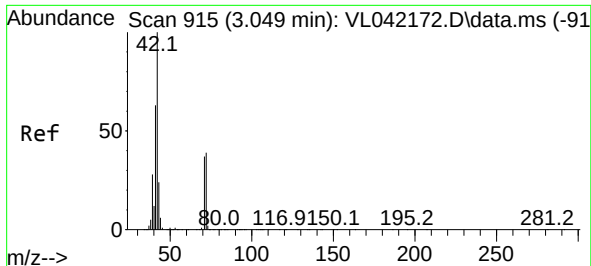
88 100

58 75.6 62.7 94.1

43 37.4 23.0 34.4#

57 0.0 0.0 0.0

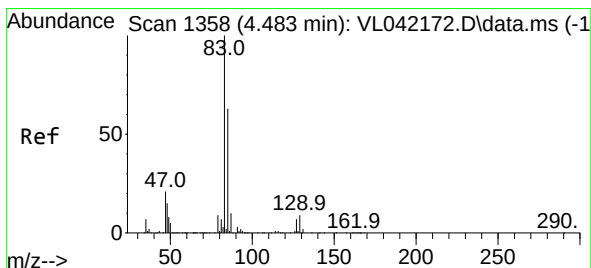
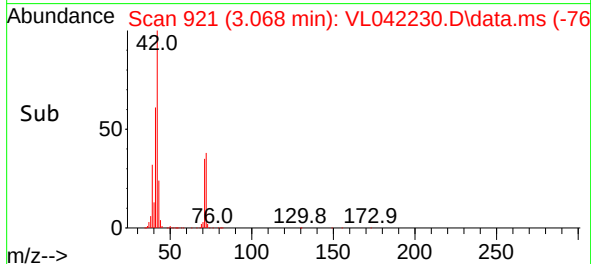
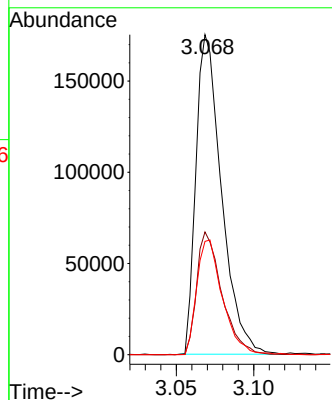
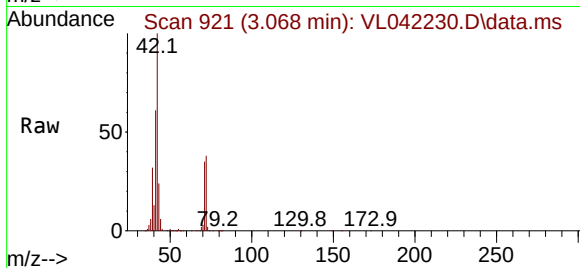




#41
Tetrahydrofuran
Concen: 9.071 ppbv
RT: 3.068 min Scan# 915
Delta R.T. 0.019 min
Lab File: VL042230.D
Acq: 07 Apr 2025 11:09

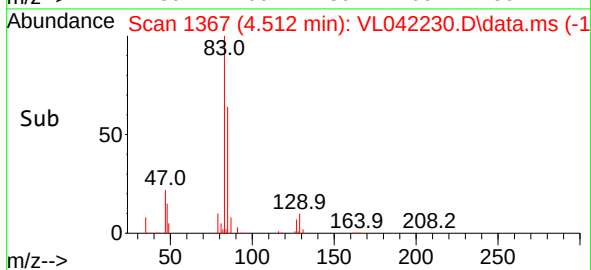
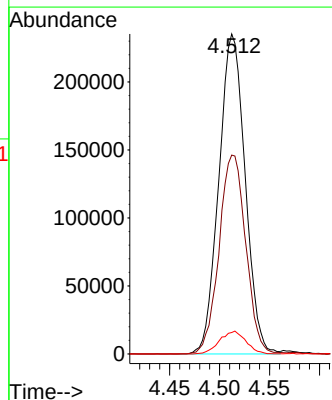
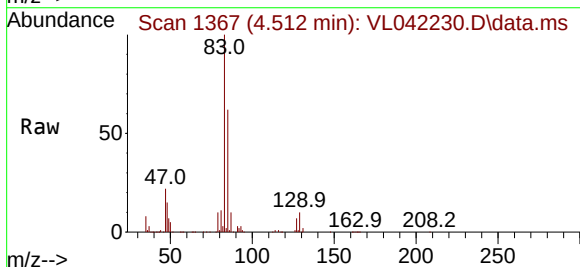
Instrument :
MSVOA_L
ClientSampleId :
VL0407ABS01

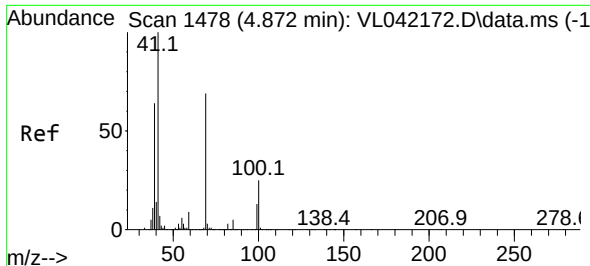
Tgt Ion: 42 Resp: 201260
Ion Ratio Lower Upper
42 100
72 37.8 31.4 47.0
71 36.3 30.2 45.4



#42
Bromodichloromethane
Concen: 10.361 ppbv
RT: 4.512 min Scan# 1367
Delta R.T. 0.029 min
Lab File: VL042230.D
Acq: 07 Apr 2025 11:09

Tgt Ion: 83 Resp: 430763
Ion Ratio Lower Upper
83 100
85 62.1 50.5 75.7
127 6.7 5.9 8.9

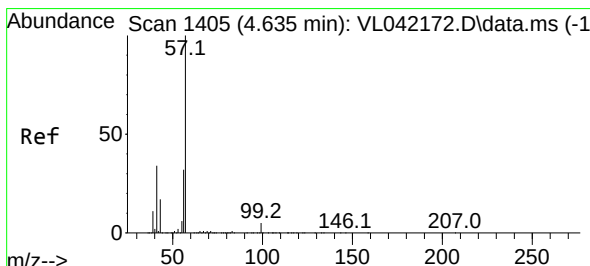
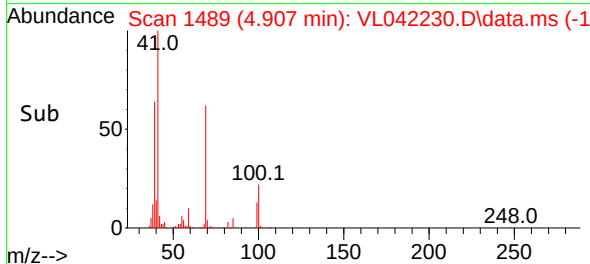
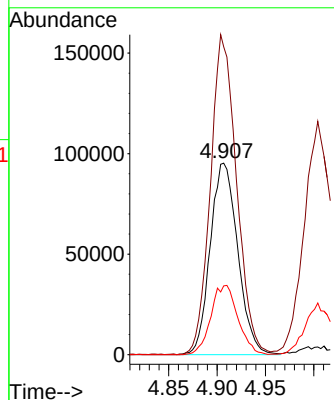
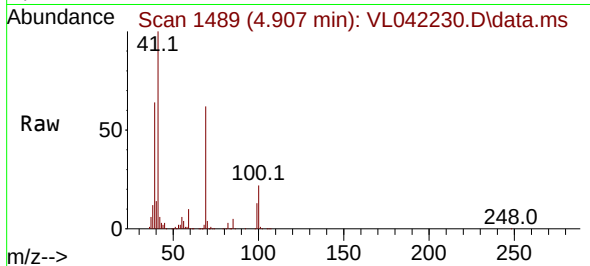




#43
Methyl Methacrylate
Concen: 8.470 ppbv
RT: 4.907 min Scan# 1414
Delta R.T. 0.035 min
Lab File: VL042230.D
Acq: 07 Apr 2025 11:09

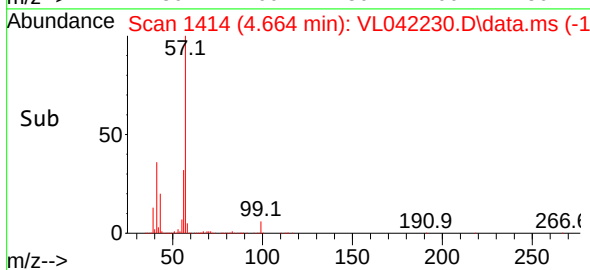
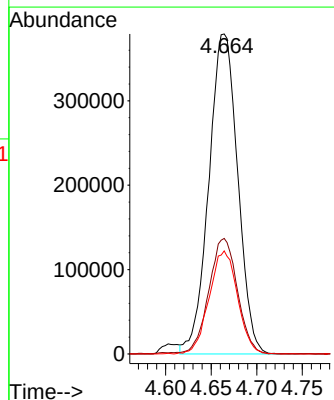
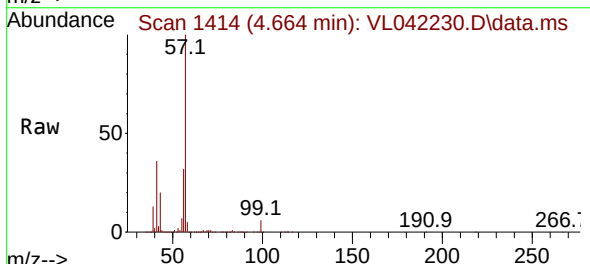
Instrument :
MSVOA_1
ClientSampleId :
VL0407ABS01

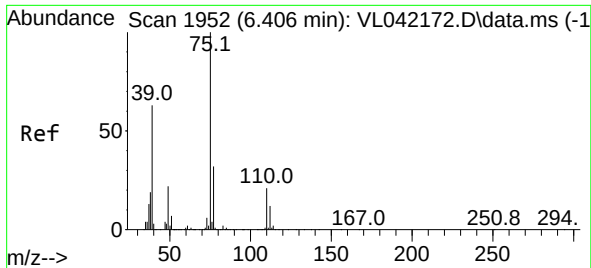
Tgt Ion: 69 Resp: 188872
Ion Ratio Lower Upper
69 100
41 158.5 123.8 185.6
100 35.6 28.4 42.6



#44
2,2,4-Trimethylpentane
Concen: 9.414 ppbv
RT: 4.664 min Scan# 1414
Delta R.T. 0.029 min
Lab File: VL042230.D
Acq: 07 Apr 2025 11:09

Tgt Ion: 57 Resp: 838005
Ion Ratio Lower Upper
57 100
41 36.2 26.8 40.2
56 31.7 25.6 38.4

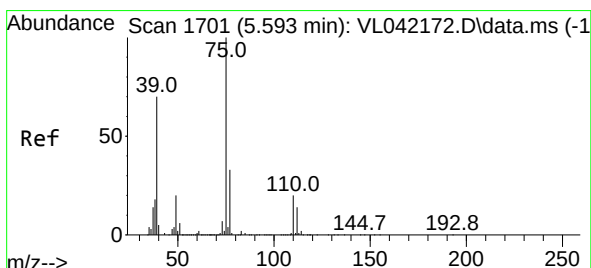
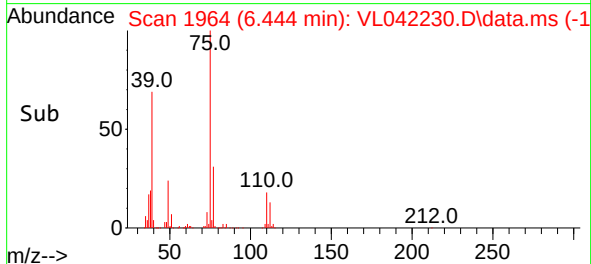
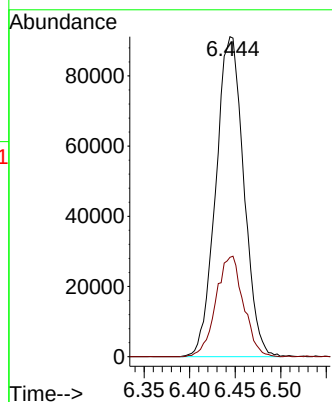
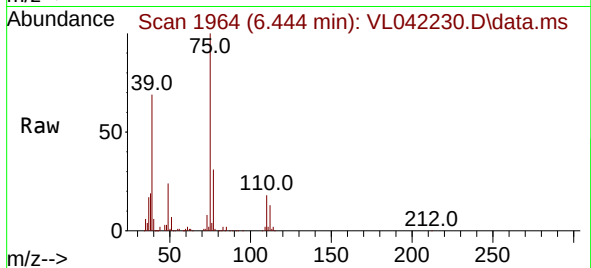




#45
 t-1,3-Dichloropropene
 Concen: 8.130 ppbv
 RT: 6.444 min Scan# 1952
 Delta R.T. 0.039 min
 Lab File: VL042230.D
 Acq: 07 Apr 2025 11:09

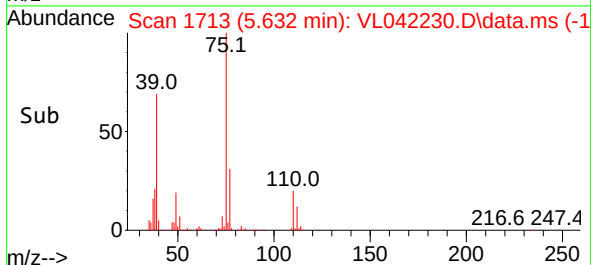
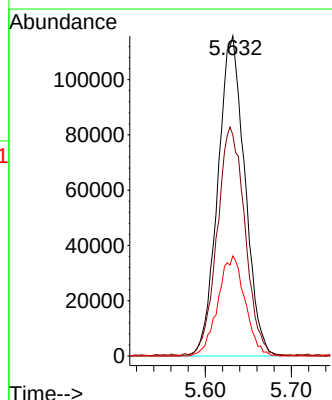
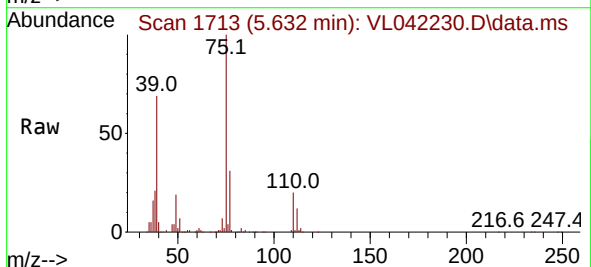
Instrument :
 MSVOA_L
 ClientSampleId :
 VL0407ABS01

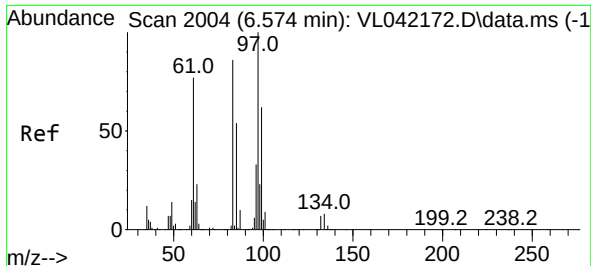
Tgt Ion: 75 Resp: 194507
 Ion Ratio Lower Upper
 75 100
 77 31.1 26.0 39.0



#46
 cis-1,3-Dichloropropene
 Concen: 8.601 ppbv
 RT: 5.632 min Scan# 1713
 Delta R.T. 0.039 min
 Lab File: VL042230.D
 Acq: 07 Apr 2025 11:09

Tgt Ion: 75 Resp: 252229
 Ion Ratio Lower Upper
 75 100
 39 69.0 55.8 83.6
 77 31.3 26.0 39.0





#47

1,1,2-Trichloroethane

Concen: 9.959 ppbv

RT: 6.606 min Scan# 20

Delta R.T. 0.032 min

Lab File: VL042230.D

Acq: 07 Apr 2025 11:09

Instrument :

MSVOA_1

ClientSampleId :

VL0407ABS01

Tgt Ion: 97 Resp: 201960

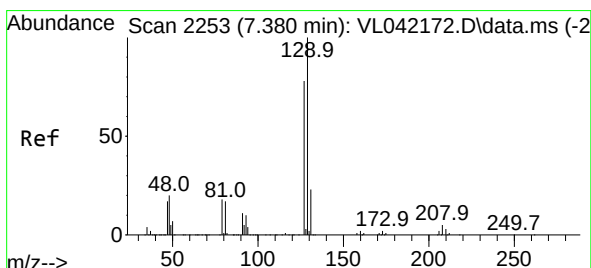
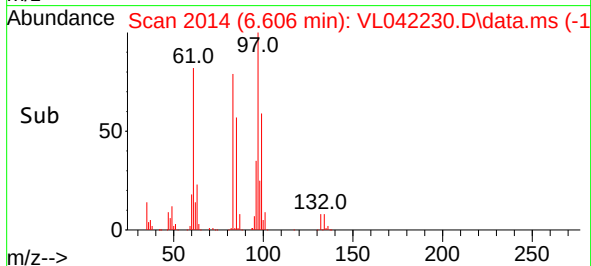
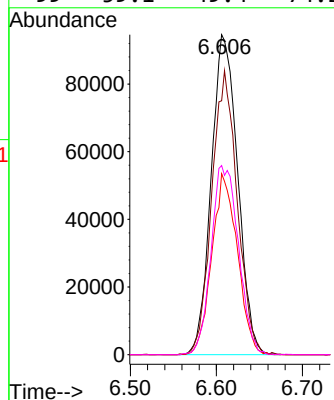
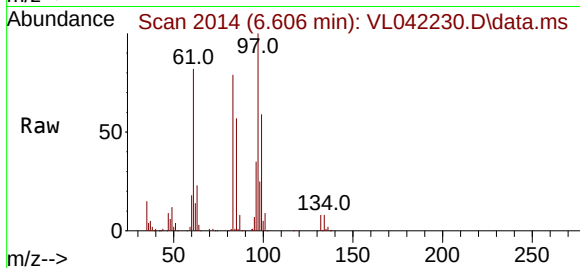
Ion Ratio Lower Upper

97 100

83 79.2 69.2 103.8

85 56.5 43.1 64.7

99 59.1 49.4 74.2



#48

Dibromochloromethane

Concen: 10.007 ppbv

RT: 7.412 min Scan# 2263

Delta R.T. 0.032 min

Lab File: VL042230.D

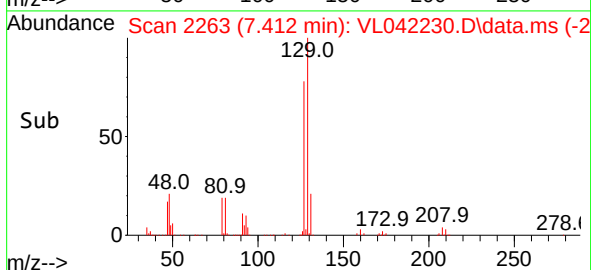
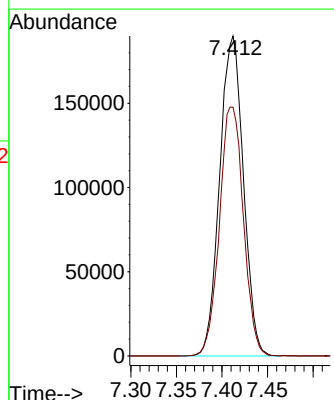
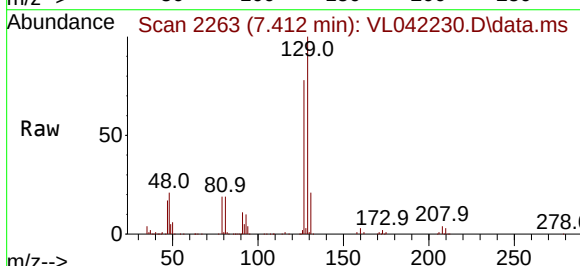
Acq: 07 Apr 2025 11:09

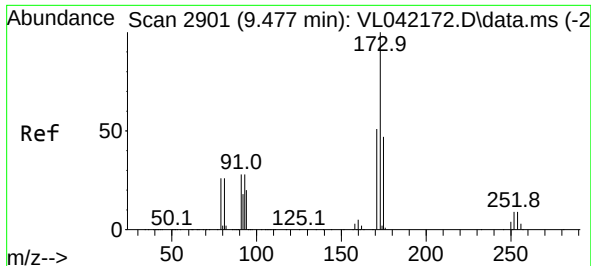
Tgt Ion: 129 Resp: 343914

Ion Ratio Lower Upper

129 100

127 78.6 39.1 117.2

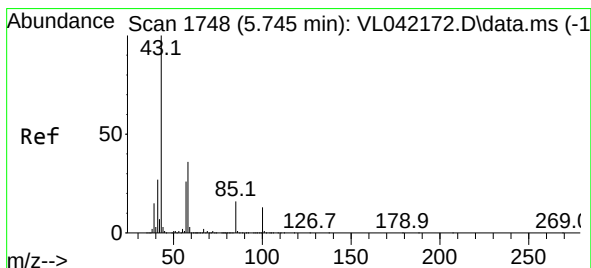
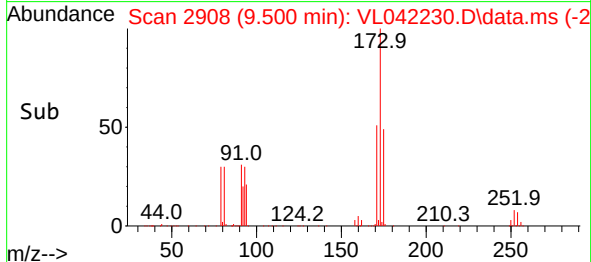
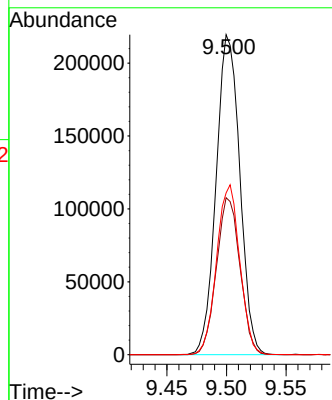
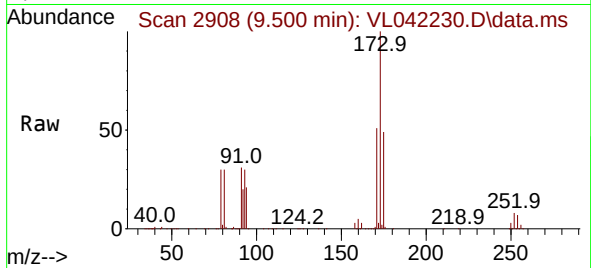




#49
Bromoform
Concen: 9.817 ppbv
RT: 9.500 min Scan# 2901
Delta R.T. 0.022 min
Lab File: VL042230.D
Acq: 07 Apr 2025 11:09

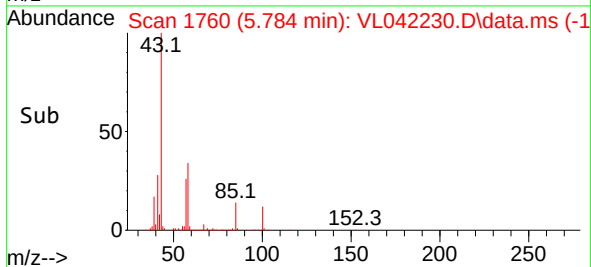
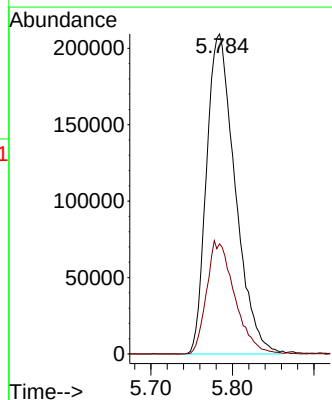
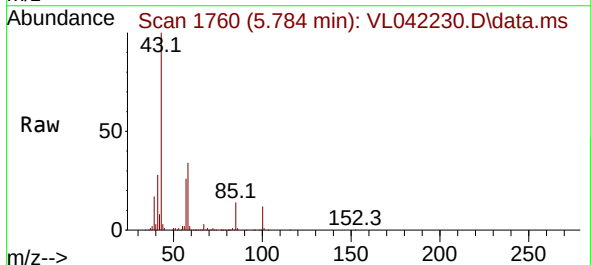
Instrument :
MSVOA_L
ClientSampleId :
VL0407ABS01

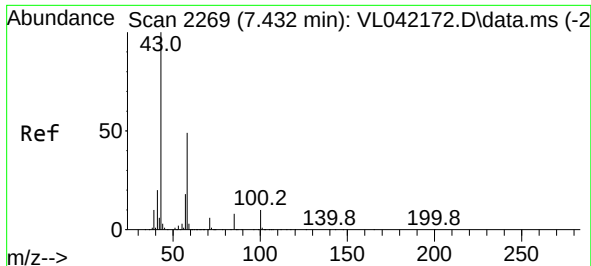
Tgt Ion:173 Resp: 302914
Ion Ratio Lower Upper
173 100
175 48.8 38.6 57.8
171 52.0 41.8 62.6



#50
4-Methyl-2-Pentanone
Concen: 8.368 ppbv
RT: 5.784 min Scan# 1760
Delta R.T. 0.039 min
Lab File: VL042230.D
Acq: 07 Apr 2025 11:09

Tgt Ion: 43 Resp: 510960
Ion Ratio Lower Upper
43 100
58 34.6 29.0 43.6

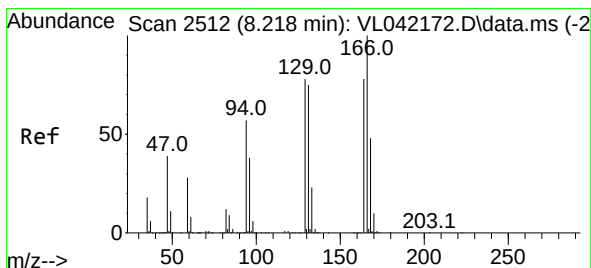
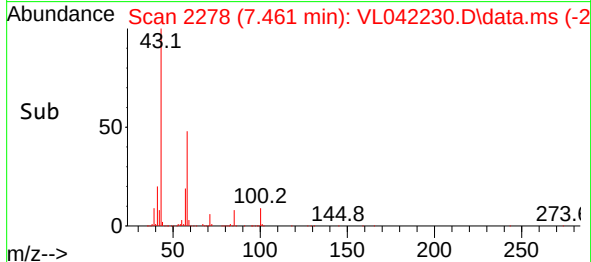
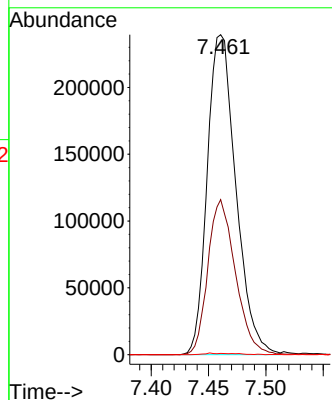
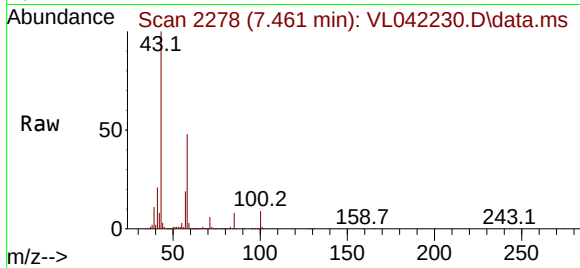




#51
2-Hexanone
Concen: 8.294 ppbv
RT: 7.461 min Scan# 21
Delta R.T. 0.029 min
Lab File: VL042230.D
Acq: 07 Apr 2025 11:09

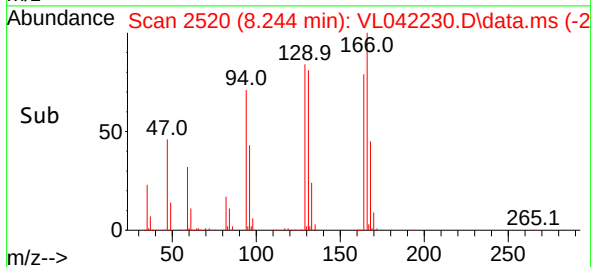
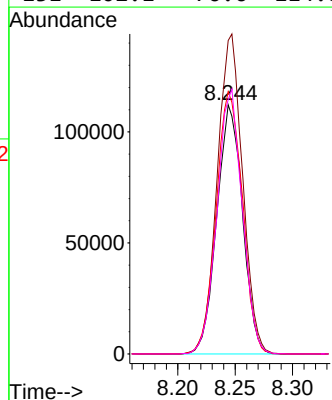
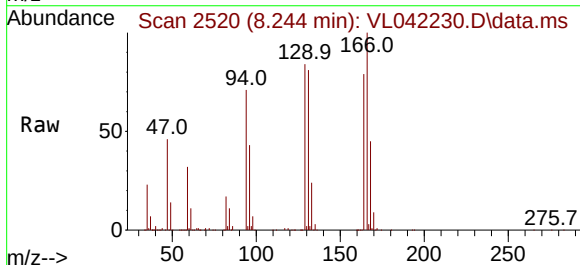
Instrument :
MSVOA_L
ClientSampleId :
VL0407ABS01

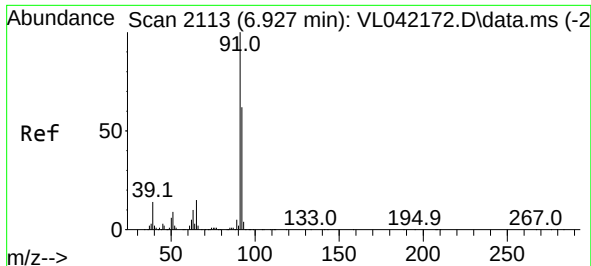
Tgt Ion: 43 Resp: 415858
Ion Ratio Lower Upper
43 100
58 46.8 39.7 59.5
98 0.6 0.1 0.1#



#52
Tetrachloroethene
Concen: 8.359 ppbv
RT: 8.244 min Scan# 2520
Delta R.T. 0.026 min
Lab File: VL042230.D
Acq: 07 Apr 2025 11:09

Tgt Ion: 164 Resp: 174622
Ion Ratio Lower Upper
164 100
166 125.9 102.5 153.7
129 105.3 79.8 119.8
131 102.1 76.6 114.8

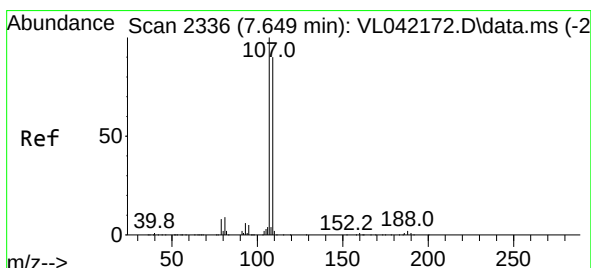
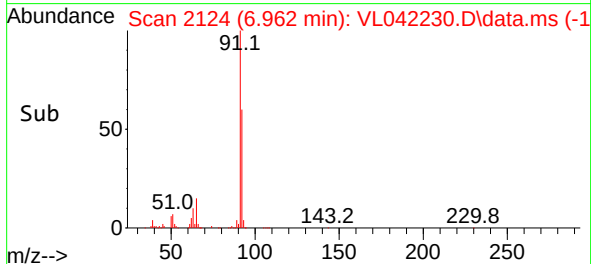
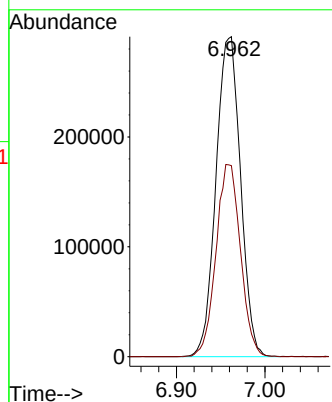
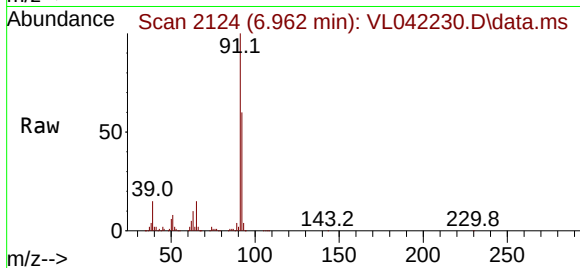




#53
Toluene
Concen: 9.007 ppbv
RT: 6.962 min Scan# 2113
Delta R.T. 0.035 min
Lab File: VL042230.D
Acq: 07 Apr 2025 11:09

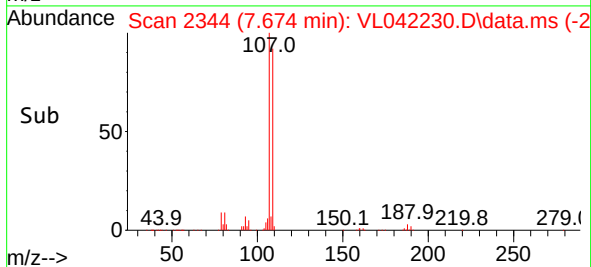
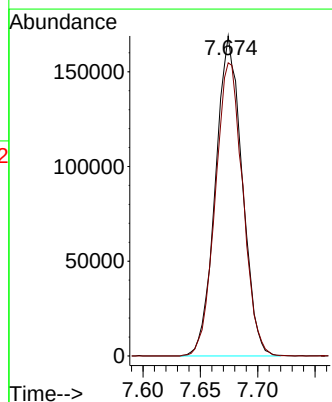
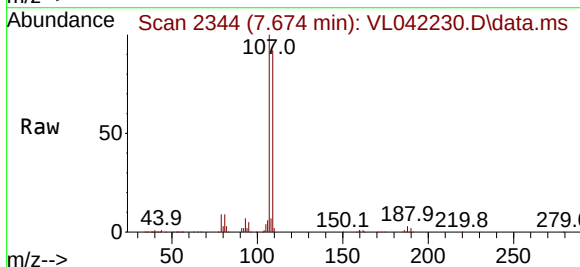
Instrument :
MSVOA_L
ClientSampleId :
VL0407ABS01

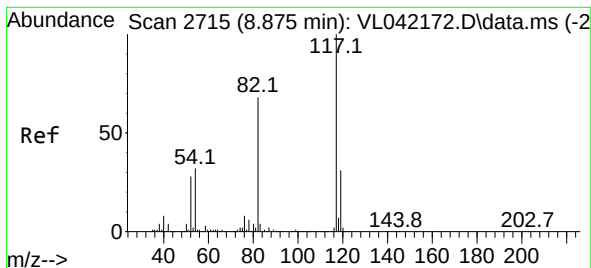
Tgt Ion: 91 Resp: 562424
Ion Ratio Lower Upper
91 100
92 59.9 48.4 72.6



#54
1,2-Dibromoethane
Concen: 9.646 ppbv
RT: 7.674 min Scan# 2344
Delta R.T. 0.026 min
Lab File: VL042230.D
Acq: 07 Apr 2025 11:09

Tgt Ion: 107 Resp: 272683
Ion Ratio Lower Upper
107 100
109 91.6 72.2 108.4





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.901 min Scan# 21

Delta R.T. 0.026 min

Lab File: VL042230.D

Acq: 07 Apr 2025 11:09

Instrument :

MSVOA_1

ClientSampleId :

VL0407ABS01

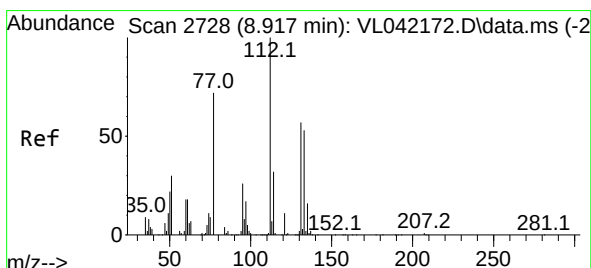
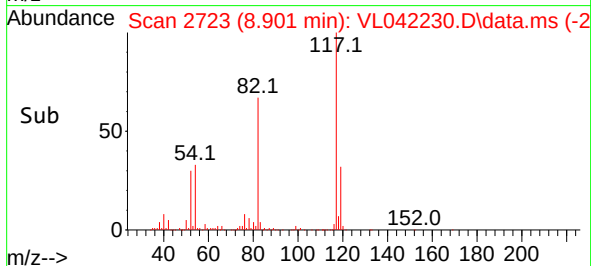
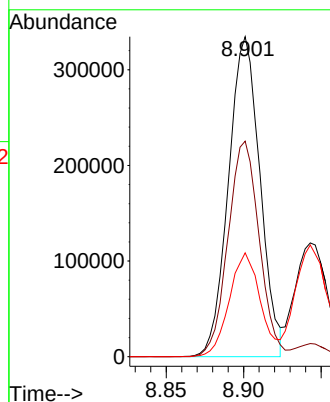
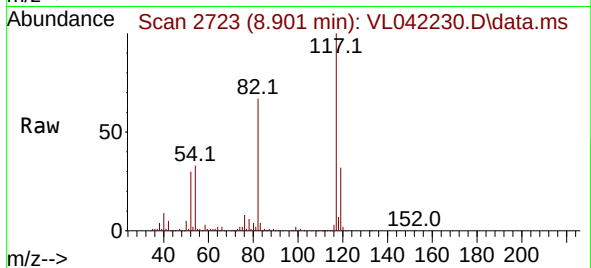
Tgt Ion:117 Resp: 473981

Ion Ratio Lower Upper

117 100

82 70.8 55.8 83.6

119 32.2 25.5 38.3



#56

1,1,1,2-Tetrachloroethane

Concen: 10.608 ppbv

RT: 8.943 min Scan# 2736

Delta R.T. 0.026 min

Lab File: VL042230.D

Acq: 07 Apr 2025 11:09

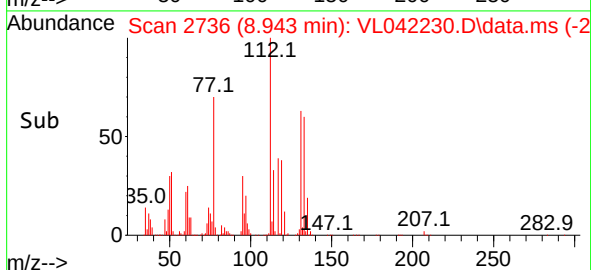
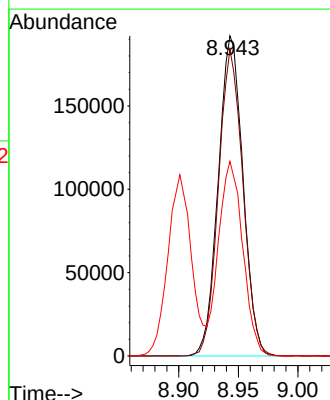
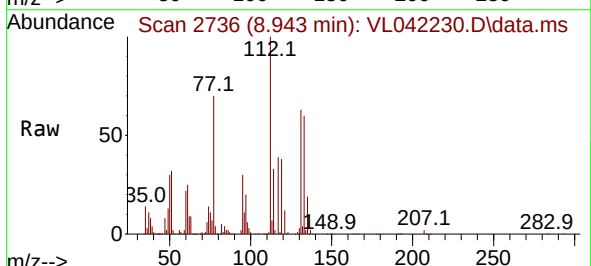
Tgt Ion:131 Resp: 276768

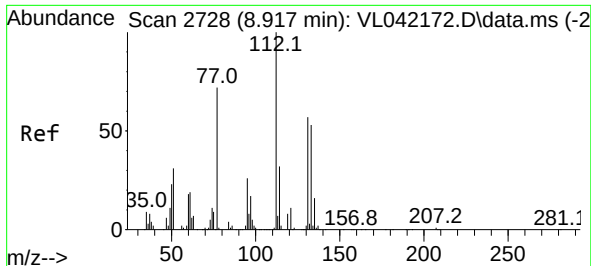
Ion Ratio Lower Upper

131 100

133 94.4 76.6 114.8

119 62.0 49.8 74.6

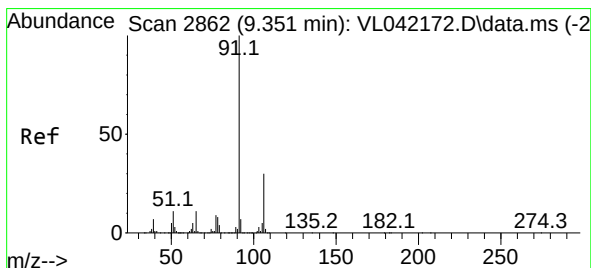
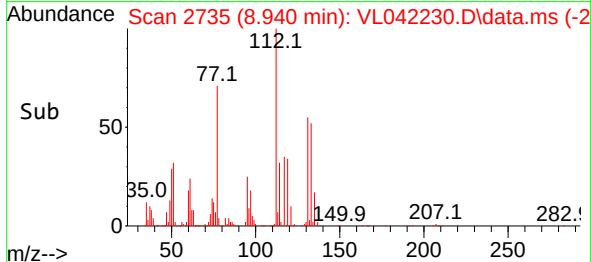
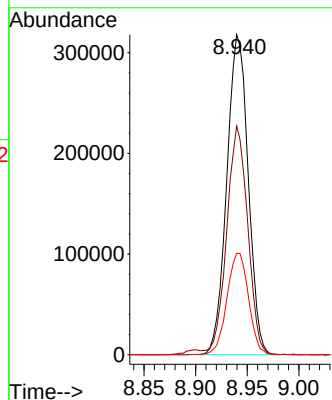
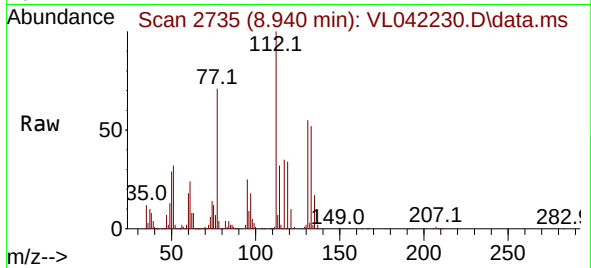




#57
Chlorobenzene
Concen: 10.204 ppbv
RT: 8.940 min Scan# 21
Delta R.T. 0.022 min
Lab File: VL042230.D
Acq: 07 Apr 2025 11:09

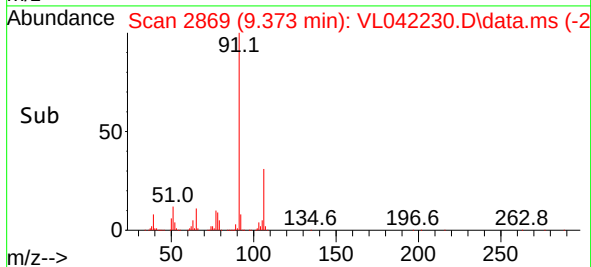
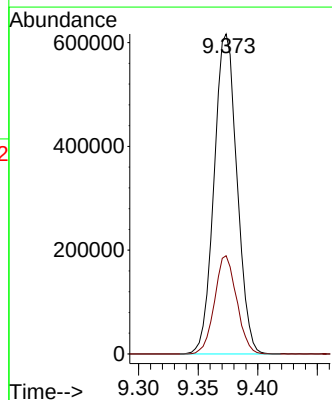
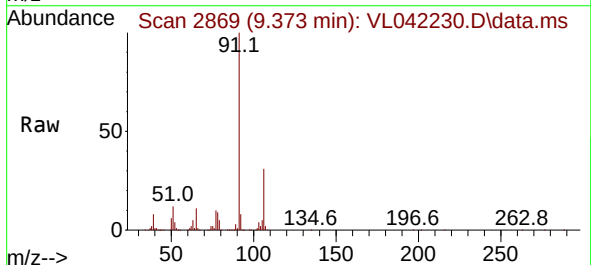
Instrument :
MSVOA_1
ClientSampleId :
VL0407ABS01

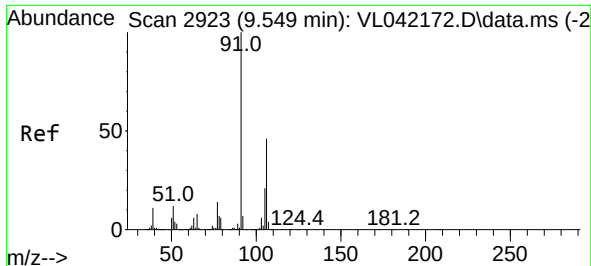
Tgt Ion:112 Resp: 458748
Ion Ratio Lower Upper
112 100
77 71.4 58.2 87.2
114 31.7 29.1 35.5



#58
Ethyl Benzene
Concen: 9.754 ppbv
RT: 9.373 min Scan# 2869
Delta R.T. 0.022 min
Lab File: VL042230.D
Acq: 07 Apr 2025 11:09

Tgt Ion: 91 Resp: 821248
Ion Ratio Lower Upper
91 100
106 30.7 24.2 36.2





#59

m/p-Xylene

Concen: 8.837 ppbv

RT: 9.568 min Scan# 2929

Delta R.T. 0.019 min

Lab File: VL042230.D

Acq: 07 Apr 2025 11:09

Instrument :

MSVOA_L

ClientSampleId :

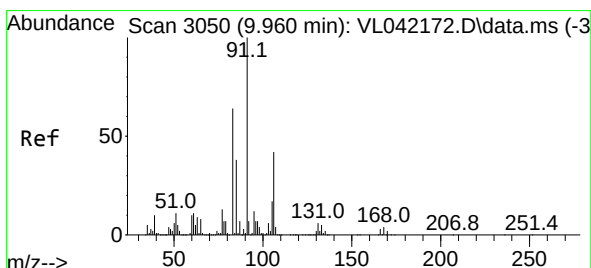
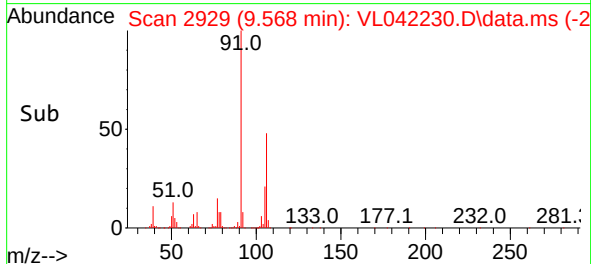
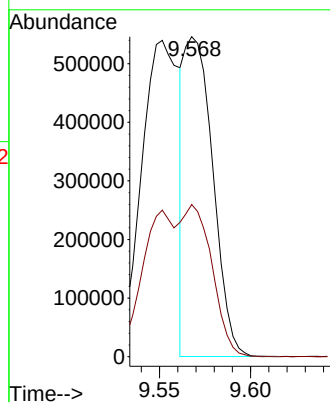
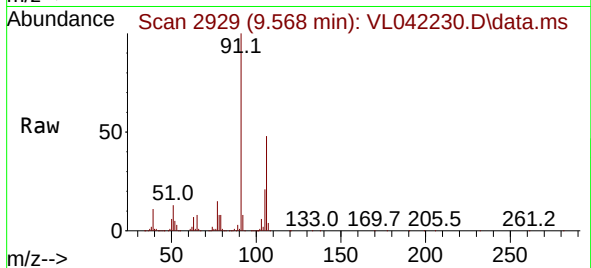
VL0407ABS01

Tgt Ion: 91 Resp: 594110

Ion Ratio Lower Upper

91 100

106 105.5 36.4 54.6#



#60

o-Xylene

Concen: 10.160 ppbv

RT: 9.982 min Scan# 3057

Delta R.T. 0.022 min

Lab File: VL042230.D

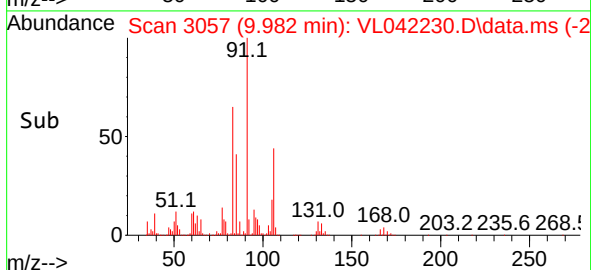
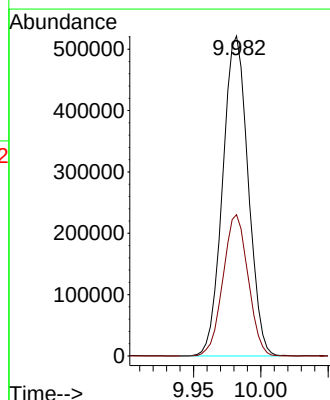
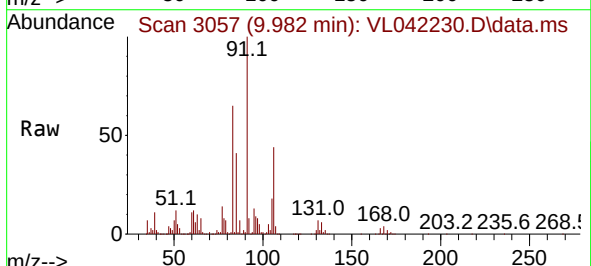
Acq: 07 Apr 2025 11:09

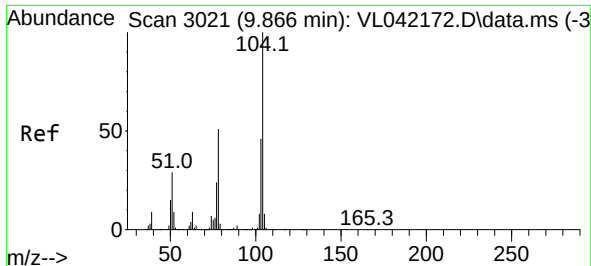
Tgt Ion: 91 Resp: 684704

Ion Ratio Lower Upper

91 100

106 43.6 20.8 62.5

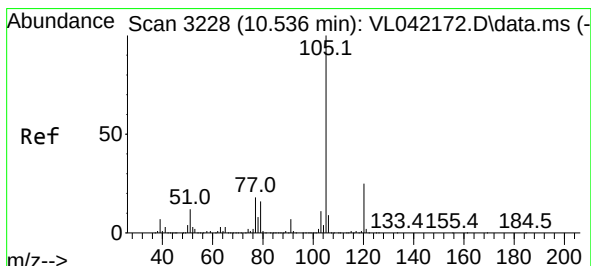
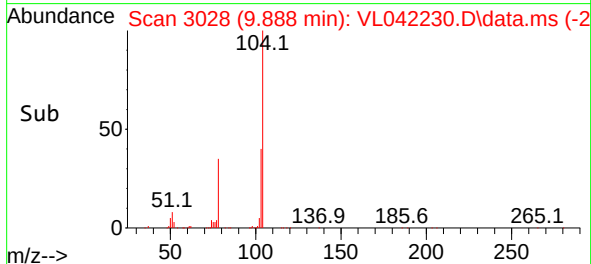
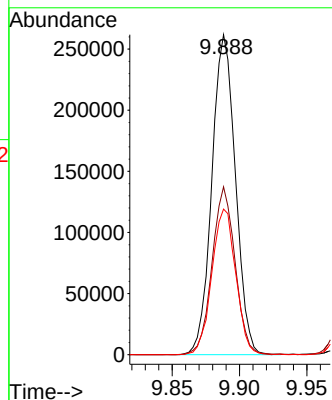
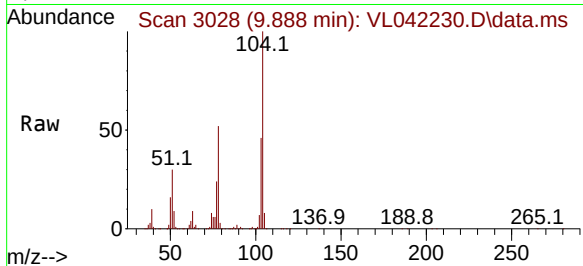




#61
Styrene
Concen: 9.564 ppbv
RT: 9.888 min Scan# 3021
Delta R.T. 0.022 min
Lab File: VL042230.D
Acq: 07 Apr 2025 11:09

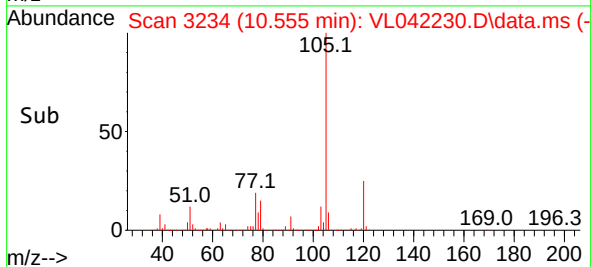
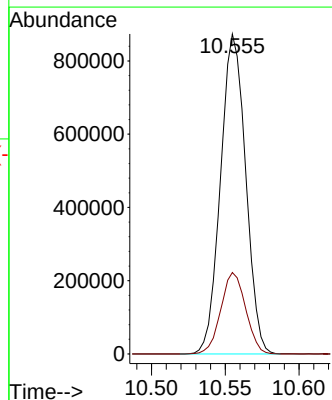
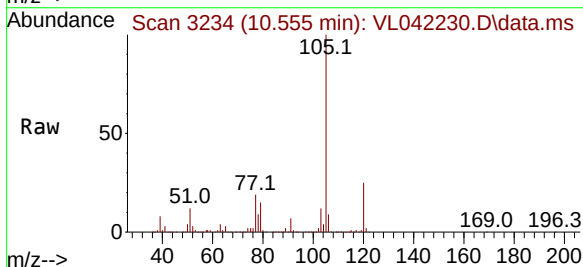
Instrument :
MSVOA_1
ClientSampleId :
VL0407ABS01

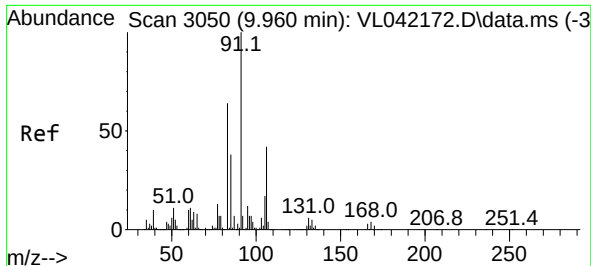
Tgt Ion:104 Resp: 318889
Ion Ratio Lower Upper
104 100
78 51.1 41.8 62.6
103 46.2 37.0 55.4



#62
Isopropylbenzene
Concen: 10.274 ppbv
RT: 10.555 min Scan# 3234
Delta R.T. 0.019 min
Lab File: VL042230.D
Acq: 07 Apr 2025 11:09

Tgt Ion:105 Resp: 1035385
Ion Ratio Lower Upper
105 100
120 25.2 19.9 29.9





#63

1,1,2,2-Tetrachloroethane

Concen: 10.816 ppbv

RT: 9.979 min Scan# 3050

Delta R.T. 0.019 min

Lab File: VL042230.D

Acq: 07 Apr 2025 11:09

Instrument :

MSVOA_L

ClientSampleId :

VL0407ABS01

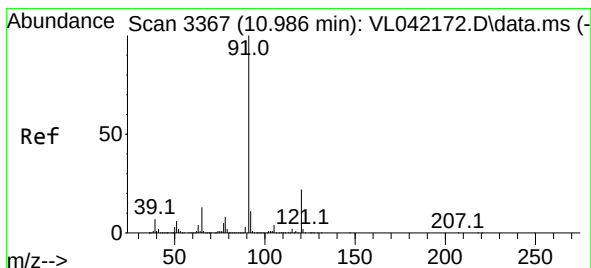
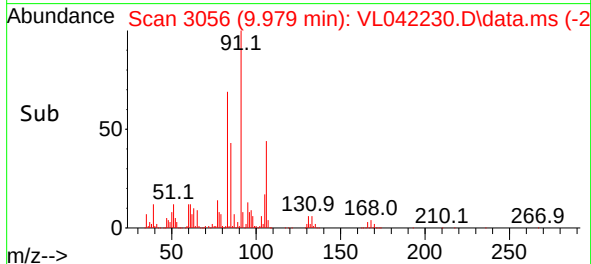
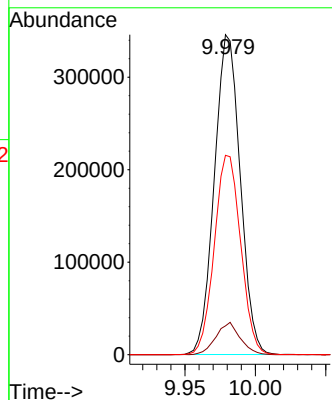
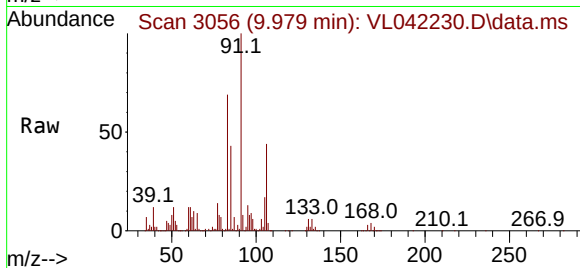
Tgt Ion: 83 Resp: 442871

Ion Ratio Lower Upper

83 100

131 9.5 4.8 14.4

85 63.6 32.5 97.5



#64

n-propylbenzene

Concen: 10.422 ppbv

RT: 11.005 min Scan# 3373

Delta R.T. 0.019 min

Lab File: VL042230.D

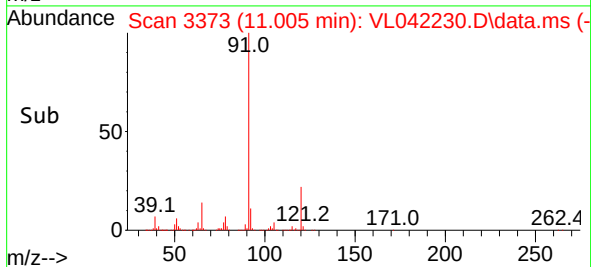
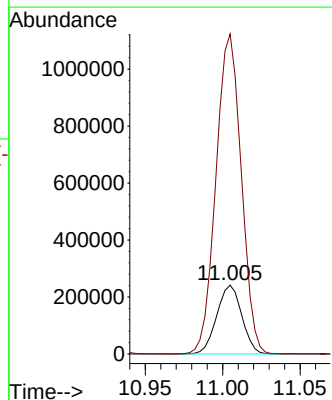
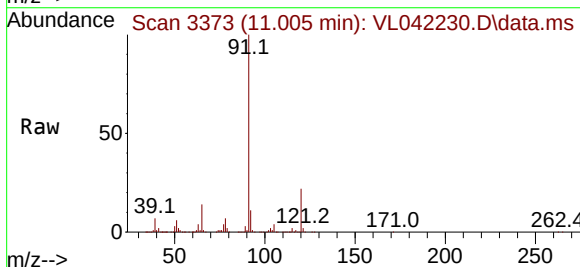
Acq: 07 Apr 2025 11:09

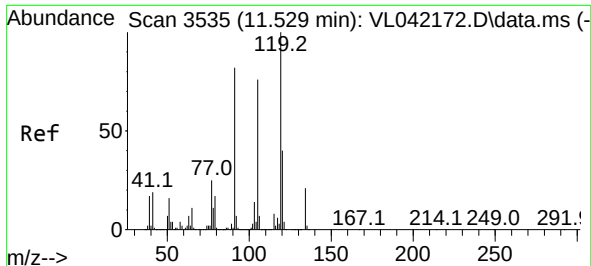
Tgt Ion: 120 Resp: 270373

Ion Ratio Lower Upper

120 100

91 472.5 376.9 565.3

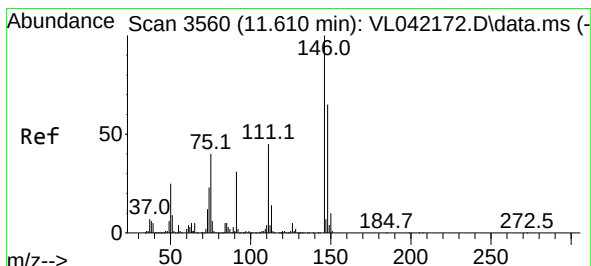
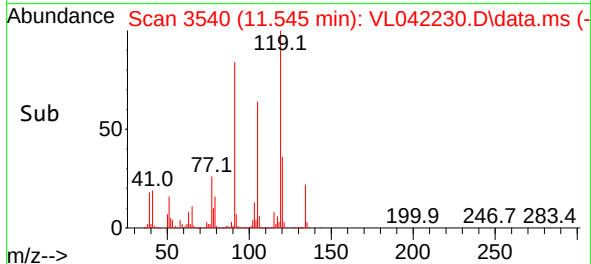
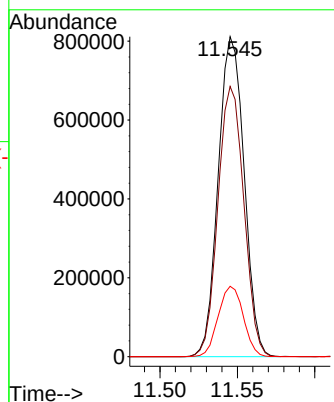
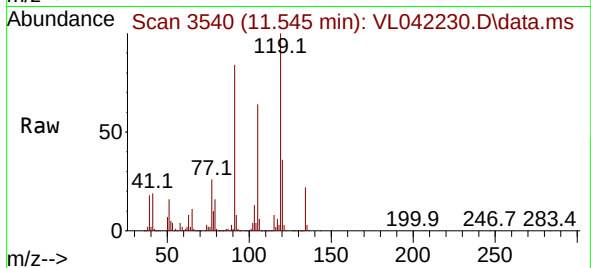




#65
tert-Butylbenzene
Concen: 10.135 ppbv
RT: 11.545 min Scan# 3535
Delta R.T. 0.016 min
Lab File: VL042230.D
Acq: 07 Apr 2025 11:09

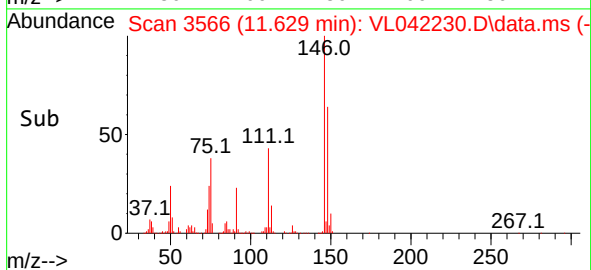
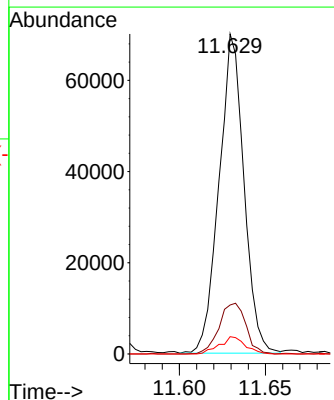
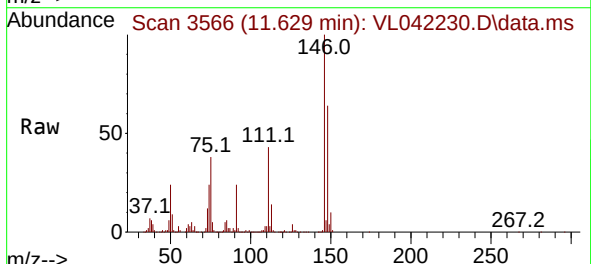
Instrument :
MSVOA_1
ClientSampleId :
VL0407ABS01

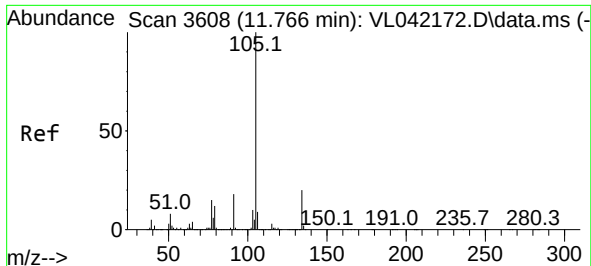
Tgt Ion:119 Resp: 944630
Ion Ratio Lower Upper
119 100
91 84.4 66.0 99.0
134 21.3 16.7 25.1



#66
Benzyl Chloride
Concen: 7.123 ppbv
RT: 11.629 min Scan# 3566
Delta R.T. 0.019 min
Lab File: VL042230.D
Acq: 07 Apr 2025 11:09

Tgt Ion: 91 Resp: 70444
Ion Ratio Lower Upper
91 100
126 17.2 13.8 20.6
128 5.5 4.5 6.7

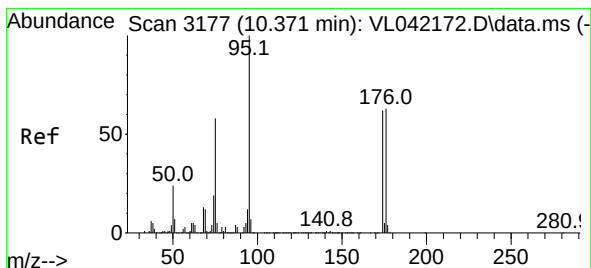
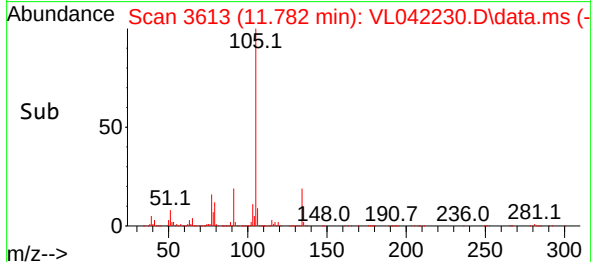
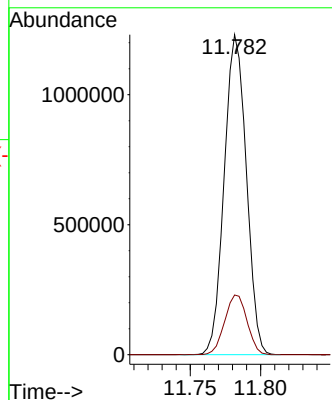
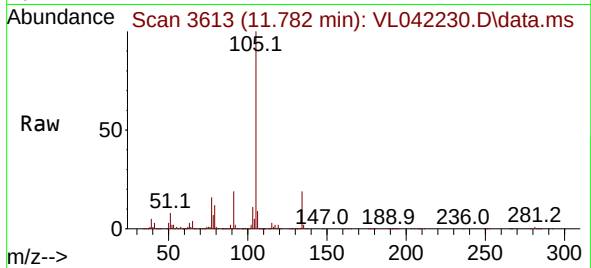




#67
 sec-Butylbenzene
 Concen: 10.395 ppbv
 RT: 11.782 min Scan# 30
 Delta R.T. 0.016 min
 Lab File: VL042230.D
 Acq: 07 Apr 2025 11:09

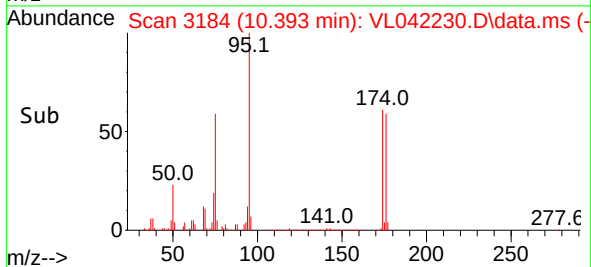
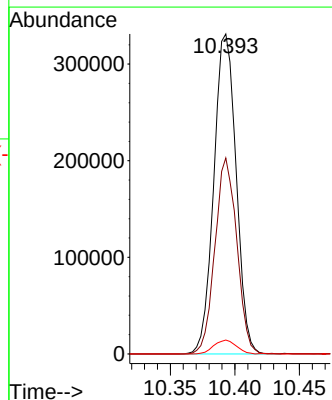
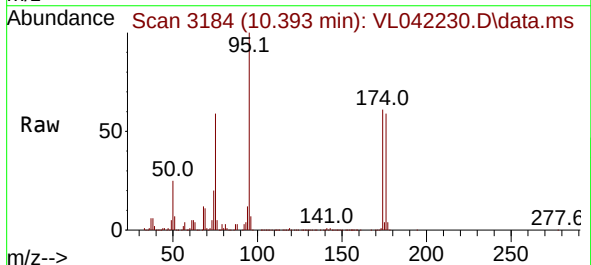
Instrument :
 MSVOA_L
 ClientSampleId :
 VL0407ABS01

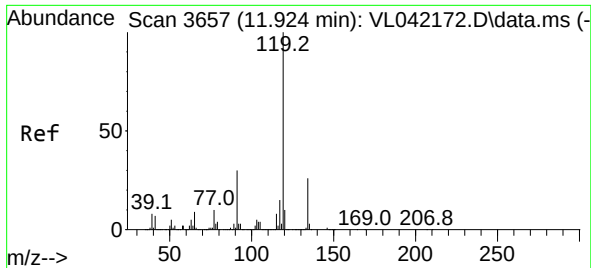
Tgt Ion:105 Resp: 1346681
 Ion Ratio Lower Upper
 105 100
 134 18.9 15.5 23.3



#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.233 ppbv
 RT: 10.393 min Scan# 3184
 Delta R.T. 0.022 min
 Lab File: VL042230.D
 Acq: 07 Apr 2025 11:09

Tgt Ion: 95 Resp: 398322
 Ion Ratio Lower Upper
 95 100
 174 60.0 50.6 76.0
 175 4.4 3.8 5.6

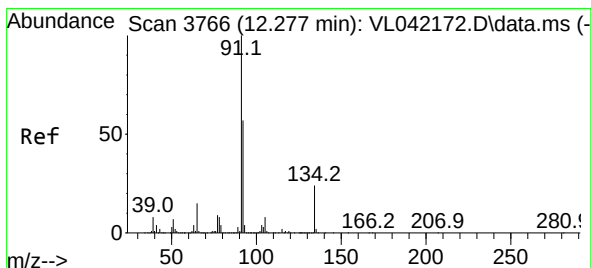
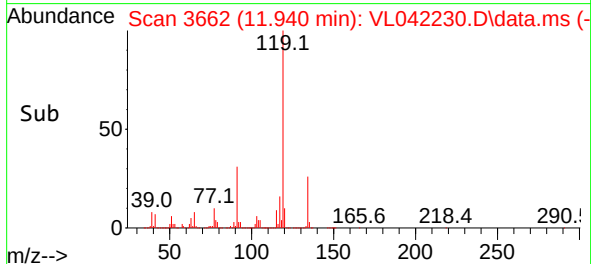
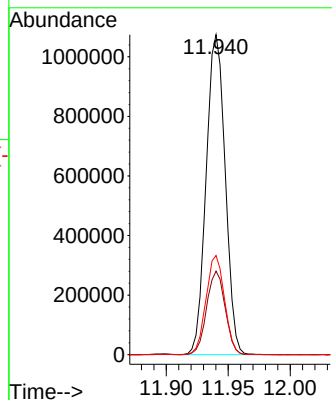
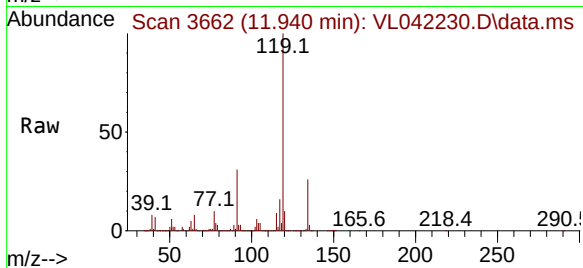




#69
p-Isopropyltoluene
Concen: 10.321 ppbv
RT: 11.940 min Scan# 3662
Delta R.T. 0.016 min
Lab File: VL042230.D
Acq: 07 Apr 2025 11:09

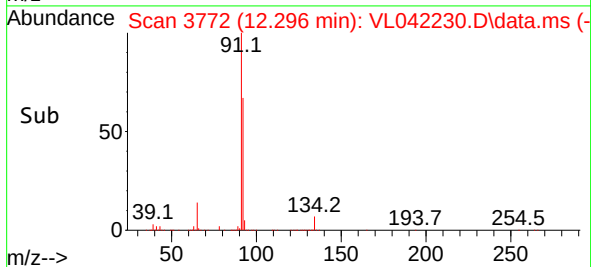
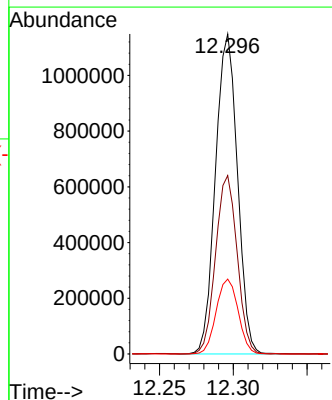
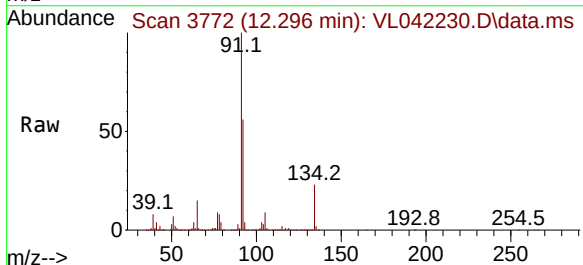
Instrument :
MSVOA_L
ClientSampleId :
VL0407ABS01

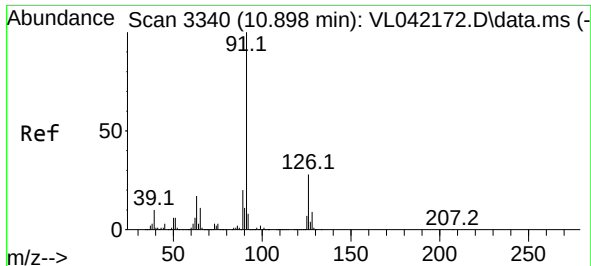
Tgt Ion:119 Resp: 1151394
Ion Ratio Lower Upper
119 100
134 25.4 20.4 30.6
91 30.3 23.7 35.5



#70
n-Butylbenzene
Concen: 10.437 ppbv
RT: 12.296 min Scan# 3772
Delta R.T. 0.019 min
Lab File: VL042230.D
Acq: 07 Apr 2025 11:09

Tgt Ion: 91 Resp: 1190709
Ion Ratio Lower Upper
91 100
92 54.9 44.9 67.3
134 23.4 19.2 28.8

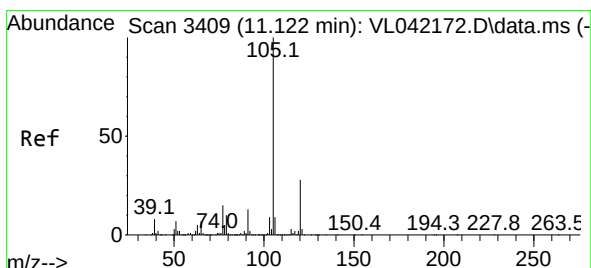
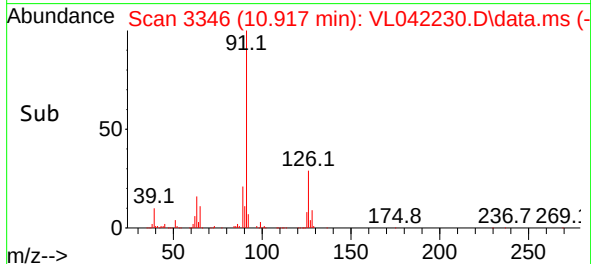
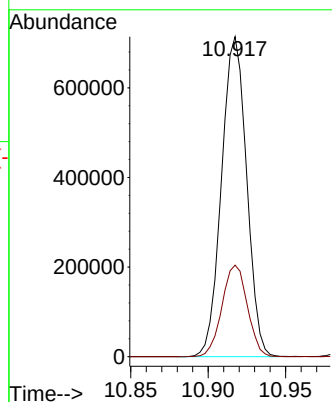
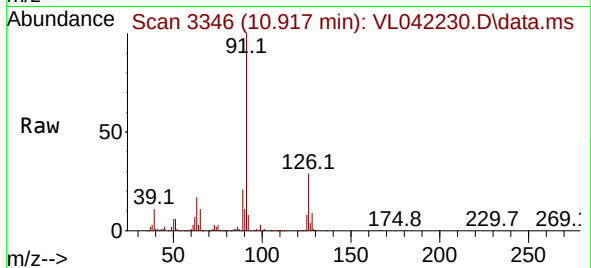




#71
2-Chlorotoluene
Concen: 10.276 ppbv
RT: 10.917 min Scan# 31
Delta R.T. 0.019 min
Lab File: VL042230.D
Acq: 07 Apr 2025 11:09

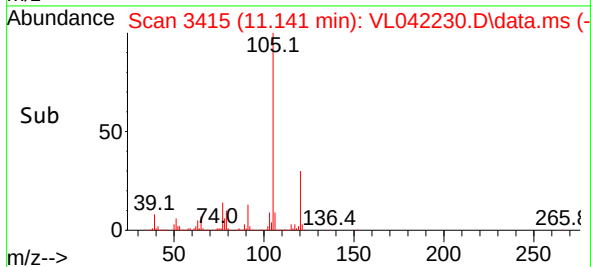
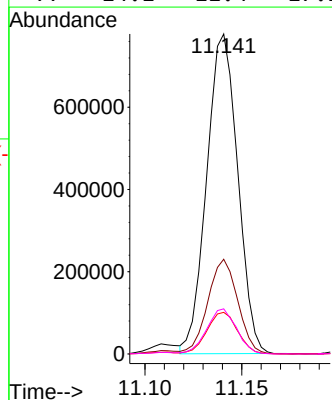
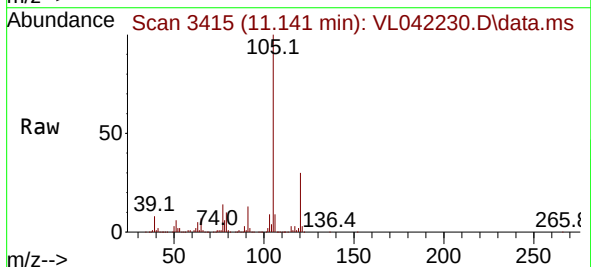
Instrument :
MSVOA_L
ClientSampleId :
VL0407ABS01

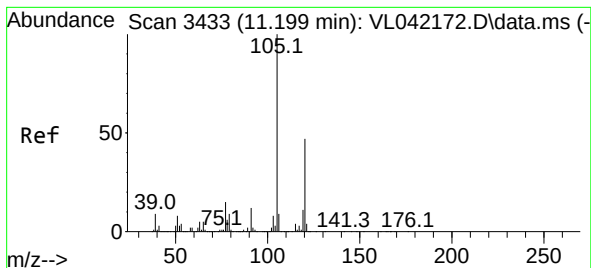
Tgt Ion: 91 Resp: 803764
Ion Ratio Lower Upper
91 100
126 28.9 11.6 46.4



#72
4-Ethyltoluene
Concen: 10.341 ppbv
RT: 11.141 min Scan# 3415
Delta R.T. 0.019 min
Lab File: VL042230.D
Acq: 07 Apr 2025 11:09

Tgt Ion: 105 Resp: 867726
Ion Ratio Lower Upper
105 100
120 29.6 23.4 35.0
91 13.5 10.3 15.5
77 14.1 11.4 17.2





#73

1,3,5-Trimethylbenzene

Concen: 10.246 ppbv

RT: 11.218 min Scan# 3439

Delta R.T. 0.019 min

Lab File: VL042230.D

Acq: 07 Apr 2025 11:09

Instrument :

MSVOA_1

ClientSampleId :

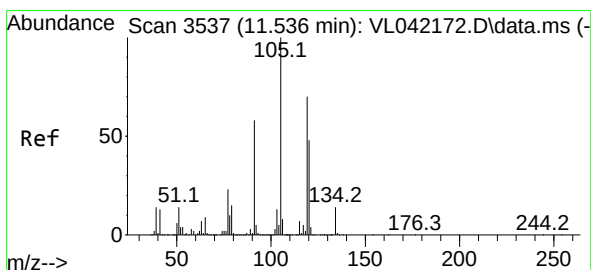
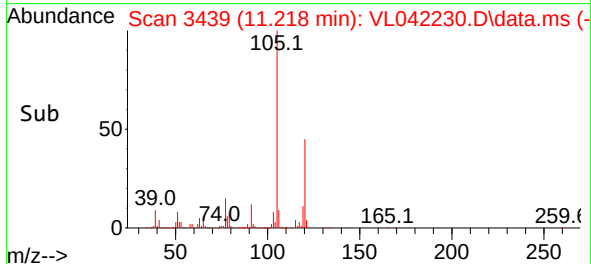
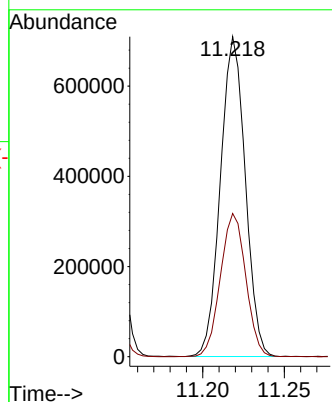
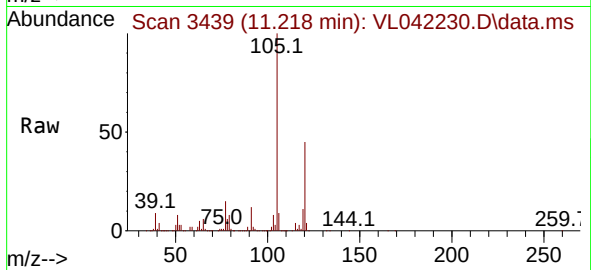
VL0407ABS01

Tgt Ion:105 Resp: 750866

Ion Ratio Lower Upper

105 100

120 44.7 37.4 56.0



#74

1,2,4-Trimethylbenzene

Concen: 9.856 ppbv

RT: 11.552 min Scan# 3542

Delta R.T. 0.016 min

Lab File: VL042230.D

Acq: 07 Apr 2025 11:09

Tgt Ion:105 Resp: 832142

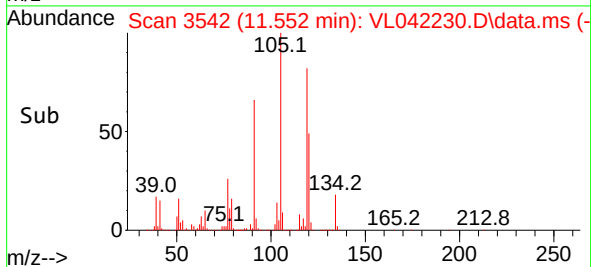
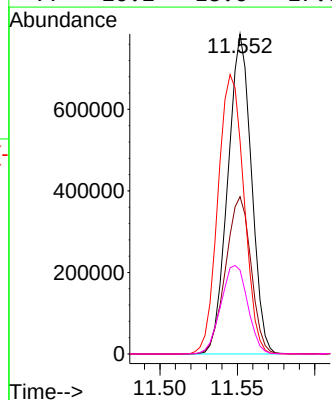
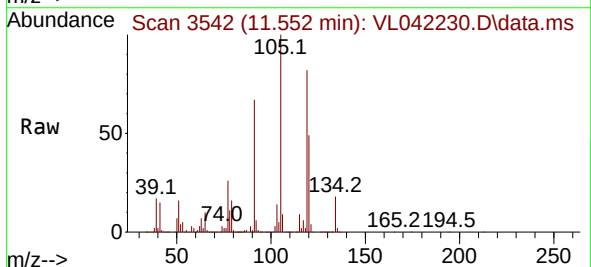
Ion Ratio Lower Upper

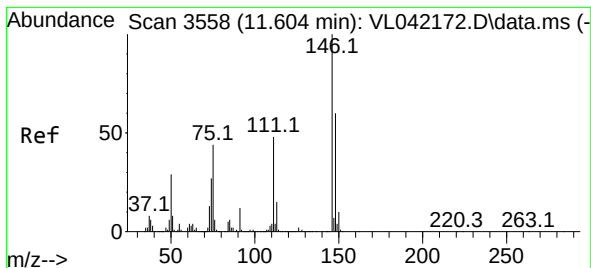
105 100

120 49.2 38.6 58.0

91 66.6 46.2 69.2

77 26.2 18.6 27.8





#75

1,3-Dichlorobenzene

Concen: 10.618 ppbv

RT: 11.623 min Scan# 3564

Delta R.T. 0.019 min

Lab File: VL042230.D

Acq: 07 Apr 2025 11:09

Instrument :

MSVOA_1

ClientSampleId :

VL0407ABS01

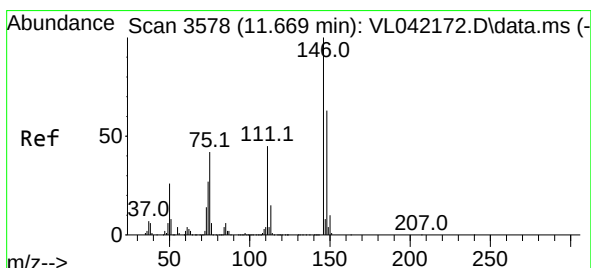
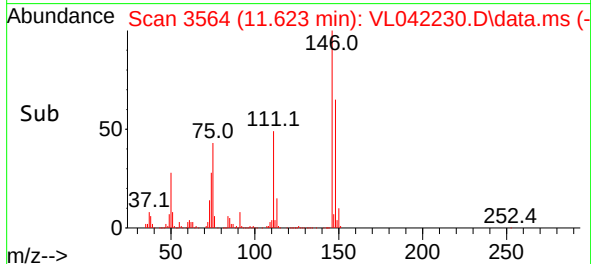
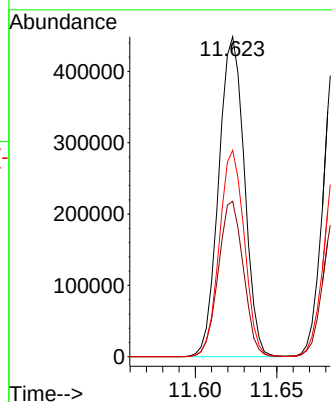
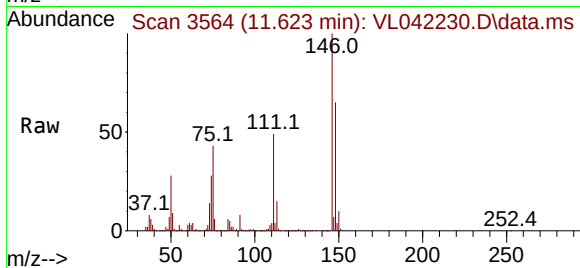
Tgt Ion:146 Resp: 491666

Ion Ratio Lower Upper

146 100

111 47.5 23.8 71.2

148 62.7 31.9 95.9



#76

1,4-Dichlorobenzene

Concen: 10.563 ppbv

RT: 11.688 min Scan# 3584

Delta R.T. 0.019 min

Lab File: VL042230.D

Acq: 07 Apr 2025 11:09

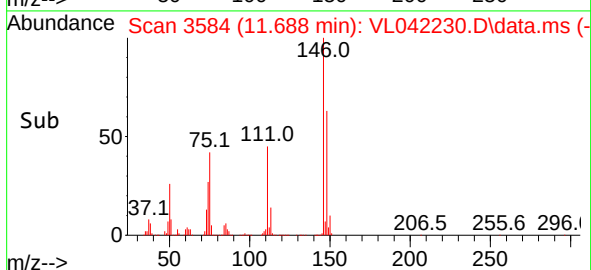
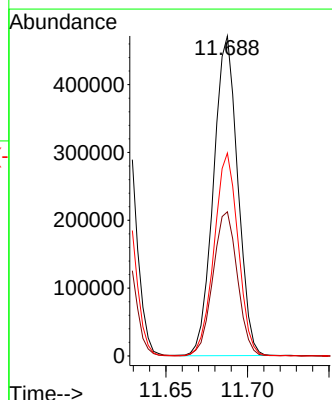
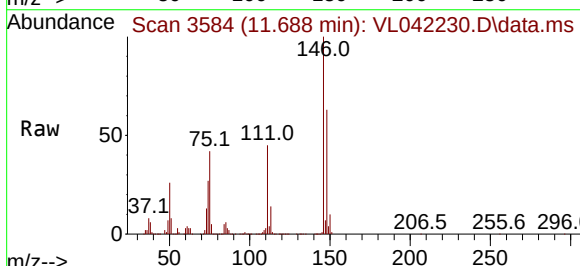
Tgt Ion:146 Resp: 486784

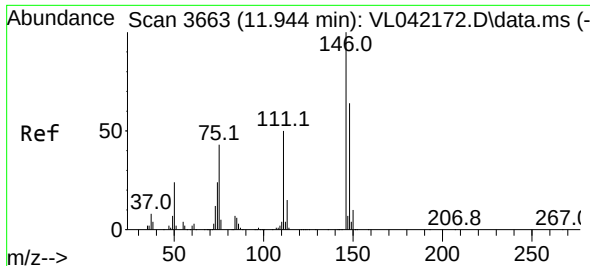
Ion Ratio Lower Upper

146 100

111 45.8 23.0 69.0

148 63.1 31.9 95.7

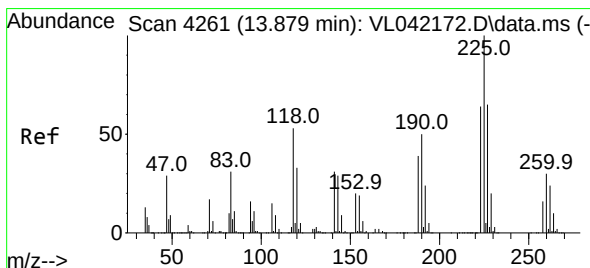
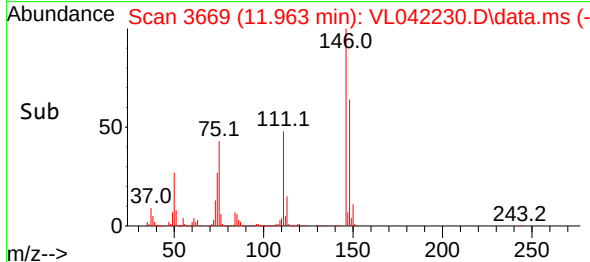
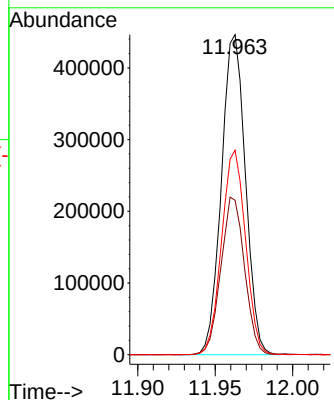
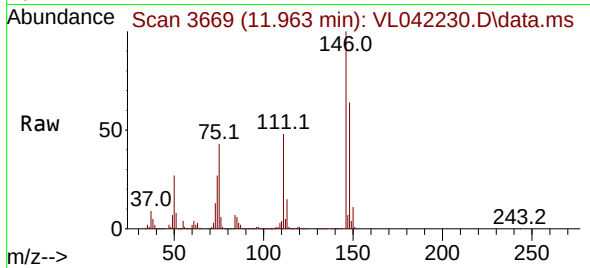




#77
1,2-Dichlorobenzene
Concen: 10.656 ppbv
RT: 11.963 min Scan# 30
Delta R.T. 0.019 min
Lab File: VL042230.D
Acq: 07 Apr 2025 11:09

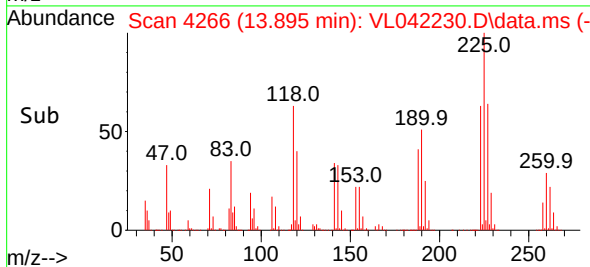
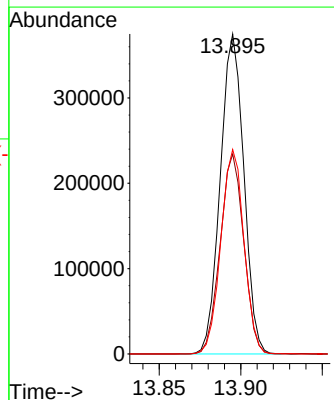
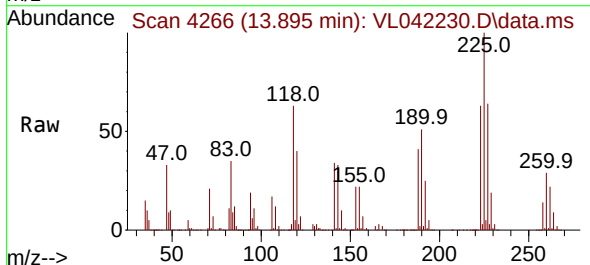
Instrument :
MSVOA_1
ClientSampleId :
VL0407ABS01

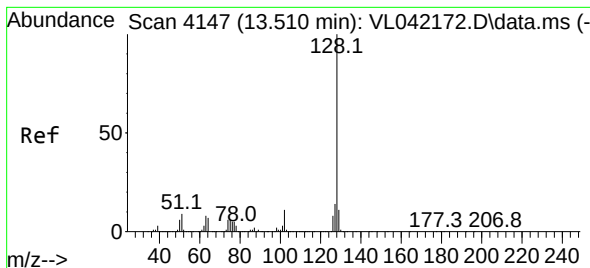
Tgt Ion:146 Resp: 480453
Ion Ratio Lower Upper
146 100
111 48.6 24.8 74.3
148 63.9 31.6 94.8



#78
Hexachloro-1,3-Butadiene
Concen: 8.189 ppbv
RT: 13.895 min Scan# 4266
Delta R.T. 0.016 min
Lab File: VL042230.D
Acq: 07 Apr 2025 11:09

Tgt Ion:225 Resp: 375805
Ion Ratio Lower Upper
225 100
223 62.5 50.6 76.0
227 62.8 51.2 76.8





#79

Naphthalene

Concen: 9.262 ppbv

RT: 13.526 min Scan# 4147

Delta R.T. 0.016 min

Lab File: VL042230.D

Acq: 07 Apr 2025 11:09

Instrument :

MSVOA_1

ClientSampleId :

VL0407ABS01

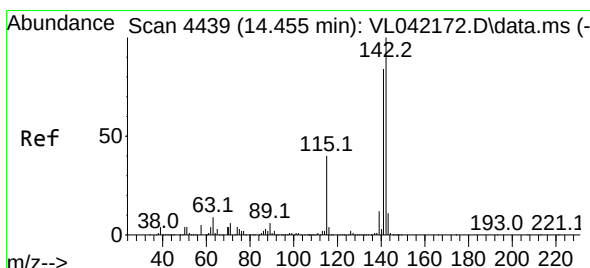
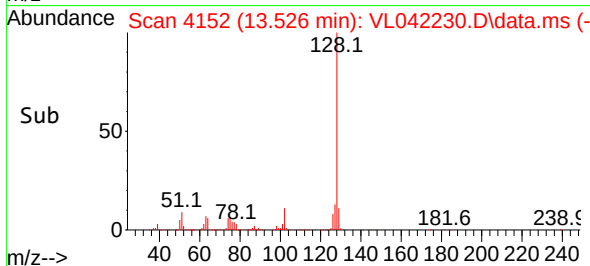
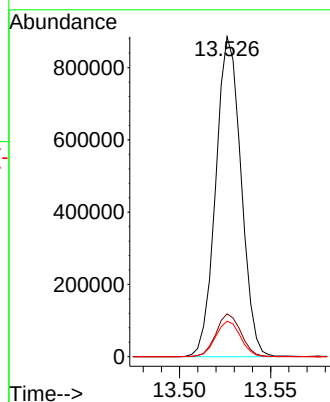
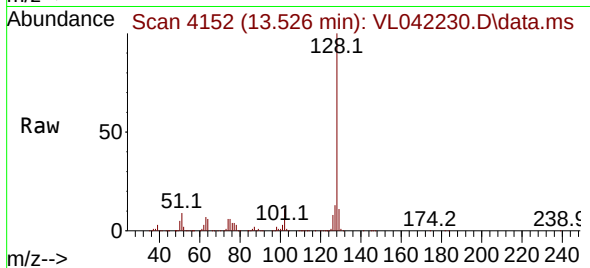
Tgt Ion:128 Resp: 855353

Ion Ratio Lower Upper

128 100

127 13.4 10.8 16.2

129 11.1 9.0 13.4



#80

Naphthalene,2-methyl-

Concen: 6.665 ppbv

RT: 14.471 min Scan# 4444

Delta R.T. 0.016 min

Lab File: VL042230.D

Acq: 07 Apr 2025 11:09

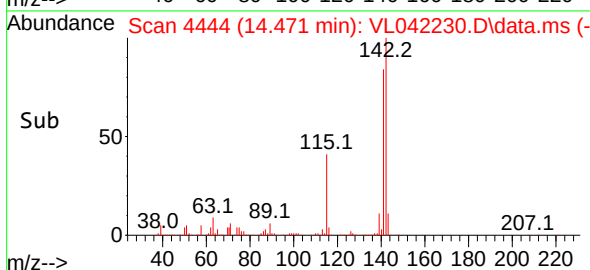
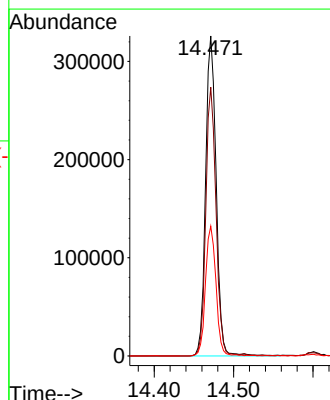
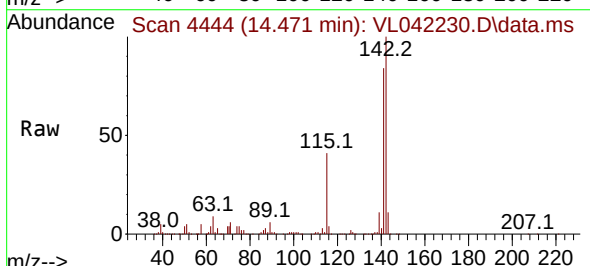
Tgt Ion:142 Resp: 301864

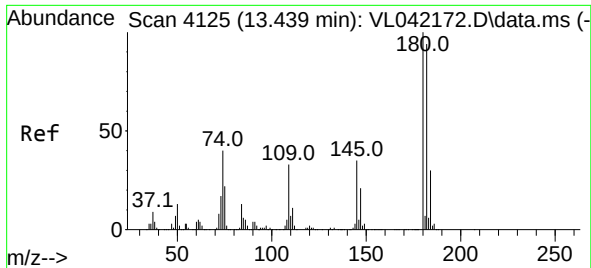
Ion Ratio Lower Upper

142 100

141 82.3 66.3 99.5

115 40.8 31.6 47.4





#81

1,2,4-Trichlorobenzene

Concen: 8.994 ppbv

RT: 13.455 min Scan# 41

Delta R.T. 0.016 min

Lab File: VL042230.D

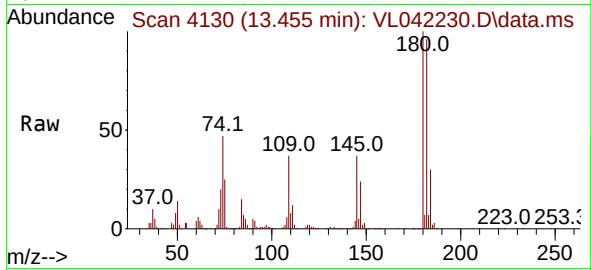
Acq: 07 Apr 2025 11:09

Instrument :

MSVOA_L

ClientSampleId :

VL0407ABS01



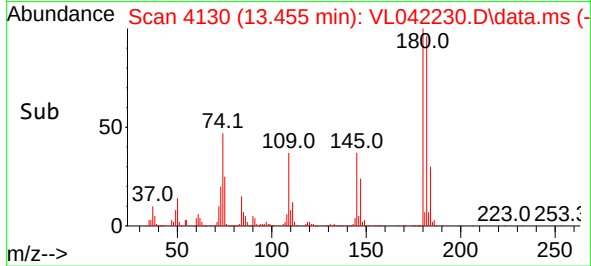
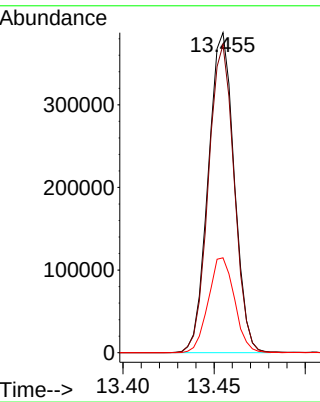
Tgt Ion:180 Resp: 383097

Ion Ratio Lower Upper

180 100

182 95.6 75.1 112.7

184 30.0 24.4 36.6



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040725\
 Data File : VL042231.D
 Acq On : 07 Apr 2025 12:27
 Operator : SY/MD
 Sample : Q1725-04
 Misc : 400mL/MSVOA_L
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 AA-1-03312025

Quant Time: Apr 08 01:30:38 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri Mar 28 02:00:52 2025
 Response via : Initial Calibration

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

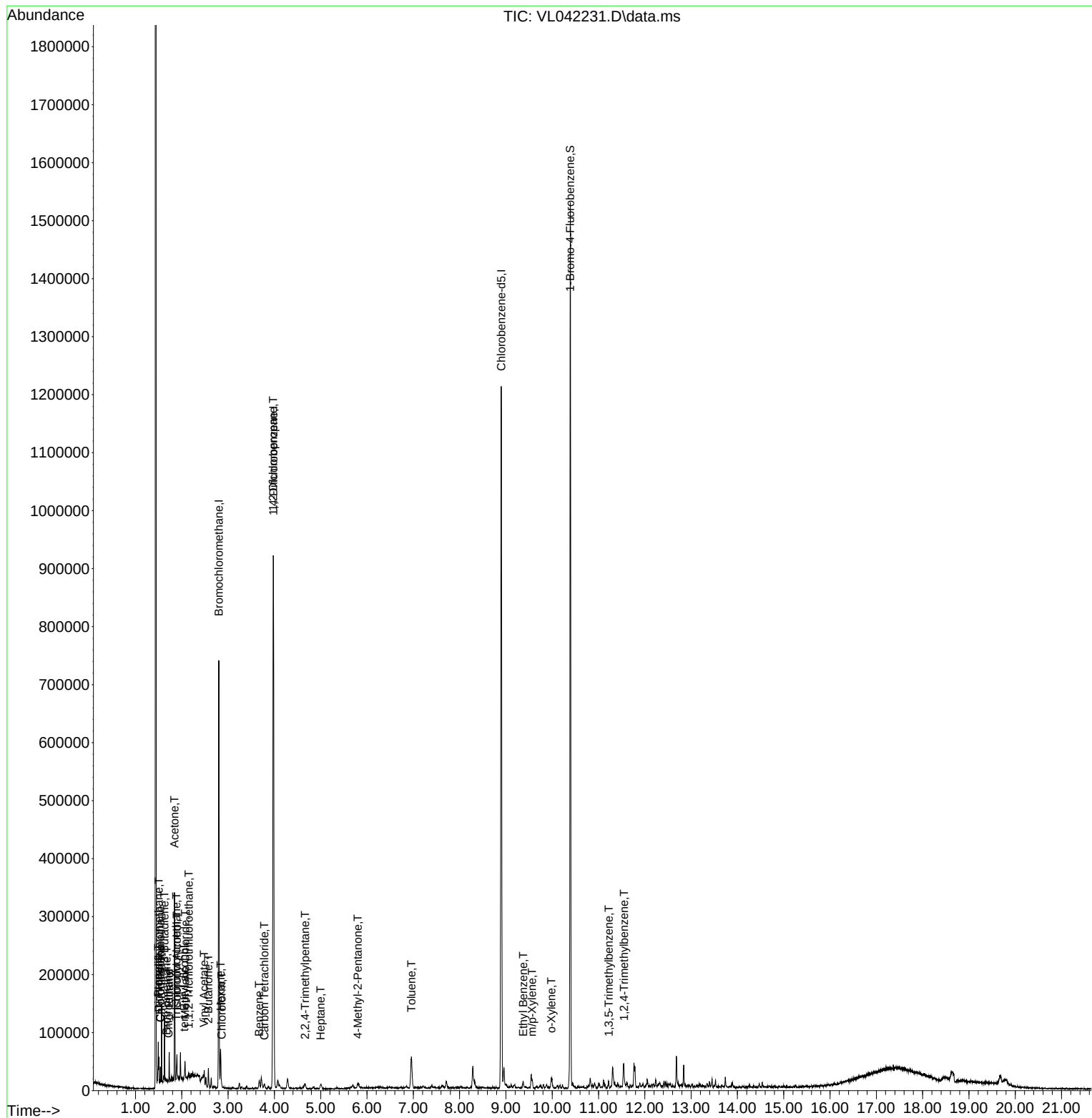
Internal Standards						
1) Bromochloromethane	2.800	49	202620	10.000	ppbv	0.02
33) 1,4-Difluorobenzene	3.978	114	551417	10.000	ppbv	0.03
55) Chlorobenzene-d5	8.901	117	479781	10.000	ppbv	0.03
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.390	95	381172	9.674	ppbv	0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	96.700%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.502	85	12053	0.403	ppbv	95
3) Chlorodifluoromethane	1.538	51	1230	0.040	ppbv	95
4) Chloromethane	1.538	50	7078	0.579	ppbv	97
6) Bromomethane	1.674	94	345	0.062	ppbv #	56
7) Chloroethane	1.713	64	289	0.059	ppbv #	57
9) Propene	1.492	41	6667	0.476	ppbv #	80
10) Heptane	4.998	43	1591	0.043	ppbv #	28
11) Trichlorofluoromethane	1.884	101	5976	0.205	ppbv	92
12) 1,1,2-Trichlorotrifluo...	2.149	101	1330	0.056	ppbv	86
13) Ethanol	1.729	45	17438	13.168	ppbv	81
15) Acetone	1.842	43	143188	5.053	ppbv	96
16) 1,3-Butadiene	1.625	39	6834	0.494	ppbv #	30
17) tert-Butyl alcohol	2.056	59	1872	0.053	ppbv #	22
19) Isopropyl Alcohol	1.894	45	17414	1.089	ppbv #	1
20) Methylene Chloride	2.072	84	4263	0.404	ppbv #	76
23) Vinyl Acetate	2.480	43	5875	0.479	ppbv #	68
26) Hexane	2.842	57	9360	0.329	ppbv #	44
29) Chloroform	2.862	83	1797	0.043	ppbv	100
34) 2-Butanone	2.573	43	21340	0.534	ppbv	92
35) Carbon Tetrachloride	3.784	117	1350	0.031	ppbv #	87
36) Benzene	3.671	78	7483	0.137	ppbv #	91
39) 1,2-Dichloropropane	3.975	63	141072	7.086	ppbv #	22
44) 2,2,4-Trimethylpentane	4.664	57	4650	0.050	ppbv #	19
50) 4-Methyl-2-Pentanone	5.804	43	5156	0.081	ppbv #	76
53) Toluene	6.959	91	20311	0.313	ppbv #	27
58) Ethyl Benzene	9.370	91	5840	0.069	ppbv #	83
59) m/p-Xylene	9.565	91	3568	0.052	ppbv #	31
60) o-Xylene	9.982	91	5058	0.074	ppbv	93
73) 1,3,5-Trimethylbenzene	11.219	105	2375	0.032	ppbv #	60
74) 1,2,4-Trimethylbenzene	11.549	105	8564	0.100	ppbv #	68

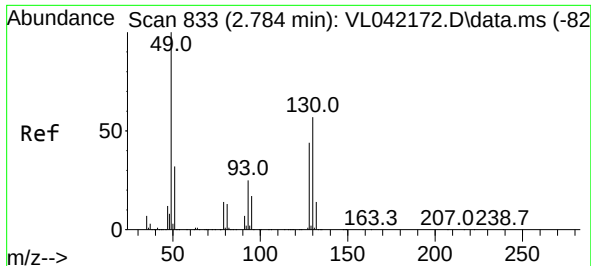
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040725\
Data File : VL042231.D
Acq On : 07 Apr 2025 12:27
Operator : SY/MD
Sample : Q1725-04
Misc : 400mL/MSVOA_L
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
AA-1-03312025

Quant Time: Apr 08 01:30:38 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Fri Mar 28 02:00:52 2025
Response via : Initial Calibration

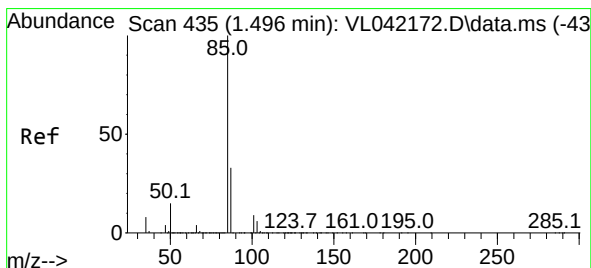
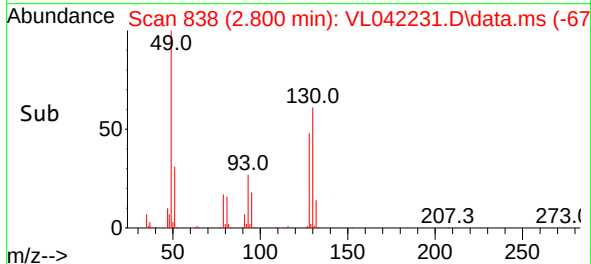
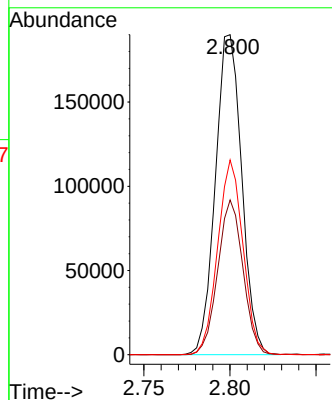
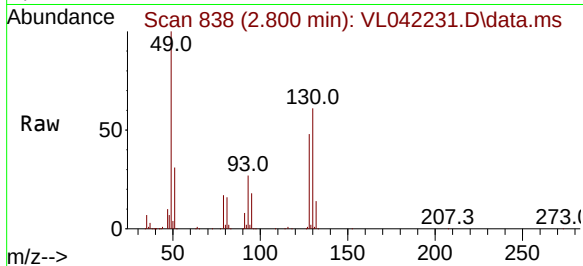




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 2.800 min Scan# 81
 Delta R.T. 0.016 min
 Lab File: VL042231.D
 Acq: 07 Apr 2025 12:27

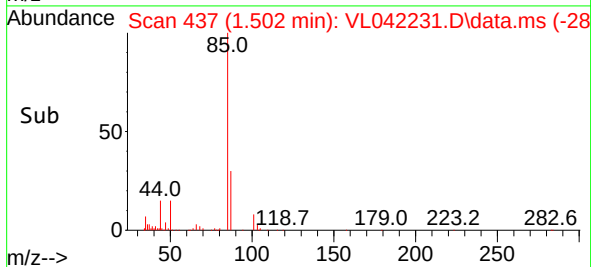
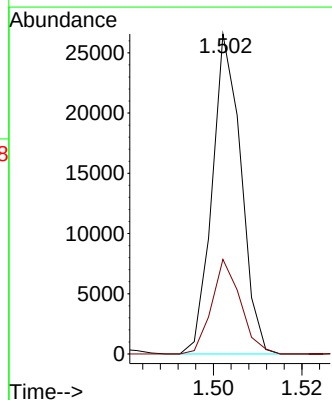
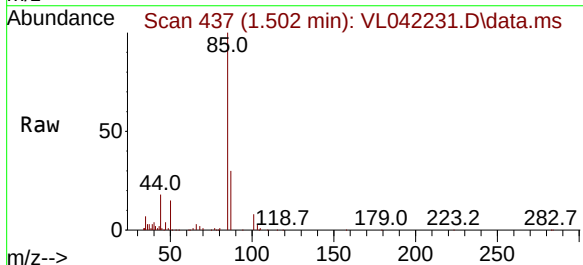
Instrument :
 MSVOA_L
 ClientSampleId :
 AA-1-03312025

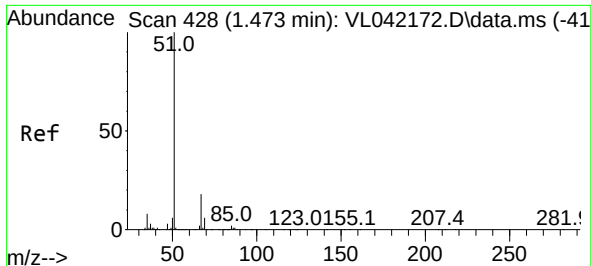
Tgt Ion: 49 Resp: 202620
 Ion Ratio Lower Upper
 49 100
 128 46.2 22.9 68.5
 130 58.4 28.8 86.4



#2
 Dichlorodifluoromethane
 Concen: 0.403 ppbv
 RT: 1.502 min Scan# 437
 Delta R.T. 0.006 min
 Lab File: VL042231.D
 Acq: 07 Apr 2025 12:27

Tgt Ion: 85 Resp: 12053
 Ion Ratio Lower Upper
 85 100
 87 29.6 26.1 39.1

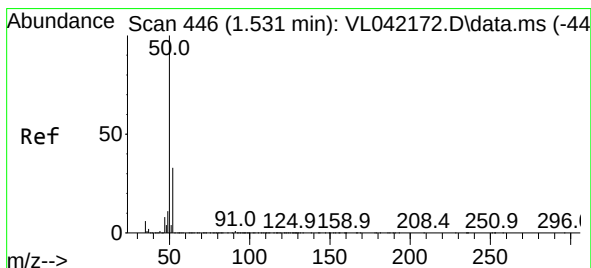
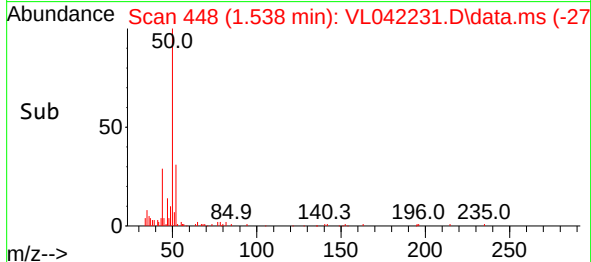
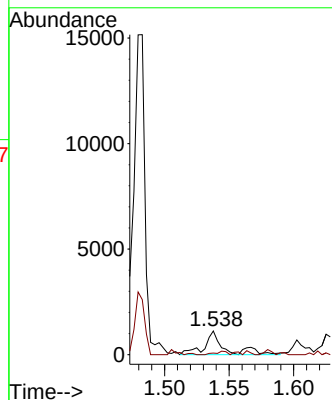
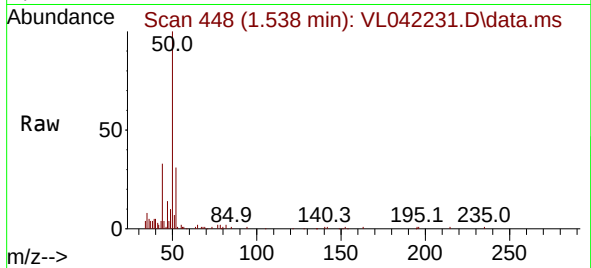




#3
Chlorodifluoromethane
Concen: 0.040 ppbv
RT: 1.538 min Scan# 448
Delta R.T. 0.065 min
Lab File: VL042231.D
Acq: 07 Apr 2025 12:27

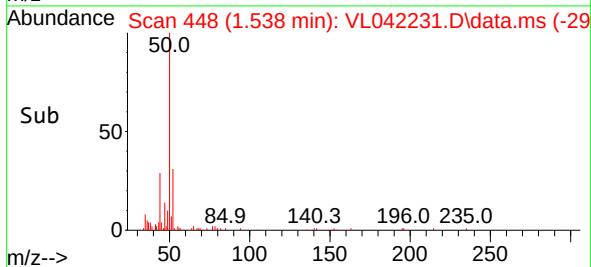
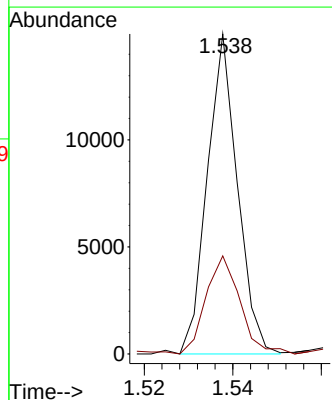
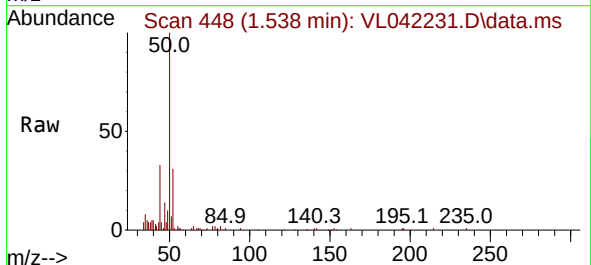
Instrument :
MSVOA_L
ClientSampleId :
AA-1-03312025

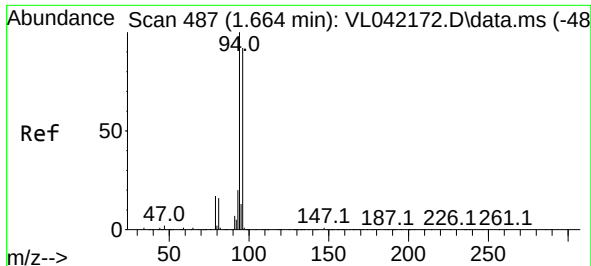
Tgt Ion: 51 Resp: 1230
Ion Ratio Lower Upper
51 100
67 16.6 15.0 22.6



#4
Chloromethane
Concen: 0.579 ppbv
RT: 1.538 min Scan# 448
Delta R.T. 0.006 min
Lab File: VL042231.D
Acq: 07 Apr 2025 12:27

Tgt Ion: 50 Resp: 7078
Ion Ratio Lower Upper
50 100
52 30.8 26.1 39.1

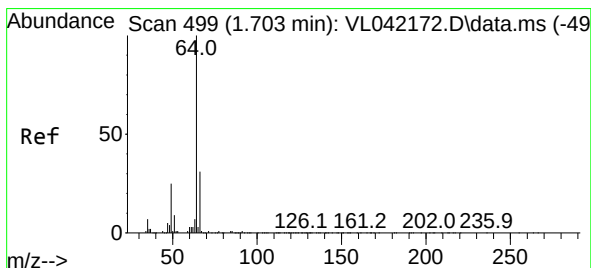
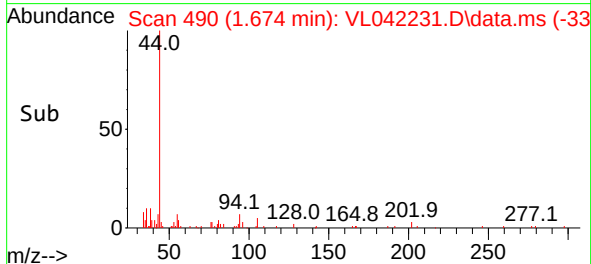
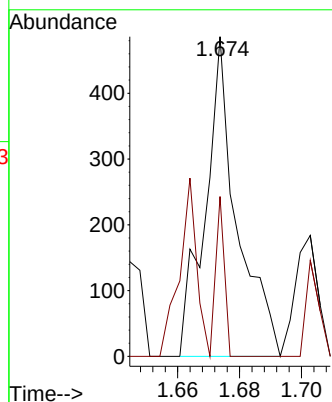
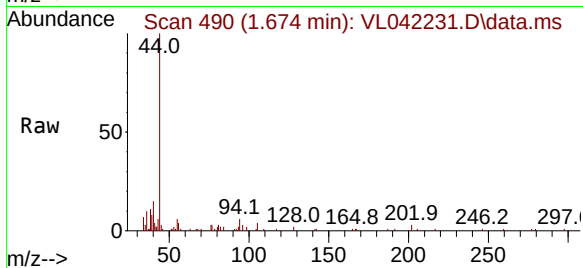




#6
Bromomethane
Concen: 0.062 ppbv
RT: 1.674 min Scan# 490
Delta R.T. 0.010 min
Lab File: VL042231.D
Acq: 07 Apr 2025 12:27

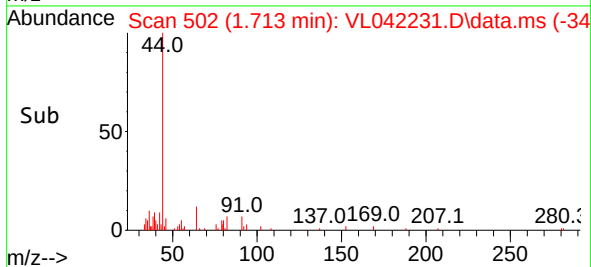
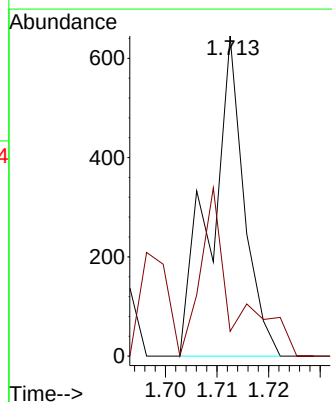
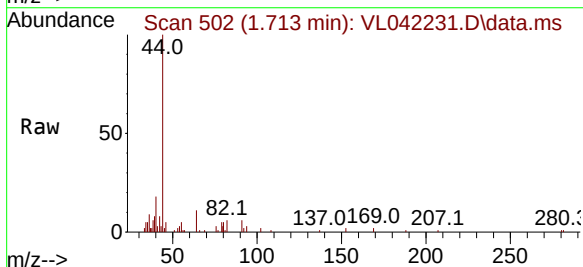
Instrument :
MSVOA_1
ClientSampleId :
AA-1-03312025

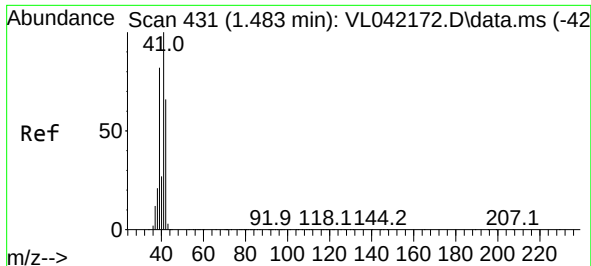
Tgt Ion: 94 Resp: 345
Ion Ratio Lower Upper
94 100
96 50.0 73.1 109.7#



#7
Chloroethane
Concen: 0.059 ppbv
RT: 1.713 min Scan# 502
Delta R.T. 0.010 min
Lab File: VL042231.D
Acq: 07 Apr 2025 12:27

Tgt Ion: 64 Resp: 289
Ion Ratio Lower Upper
64 100
66 7.8 25.2 37.8#





#9

Propene

Concen: 0.476 ppbv

RT: 1.492 min Scan# 41

Delta R.T. 0.010 min

Lab File: VL042231.D

Acq: 07 Apr 2025 12:27

Instrument :

MSVOA_L

ClientSampleId :

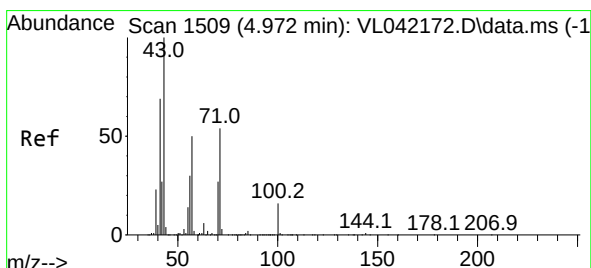
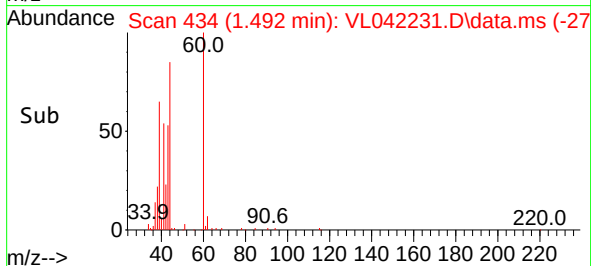
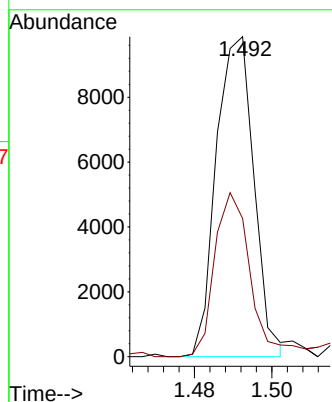
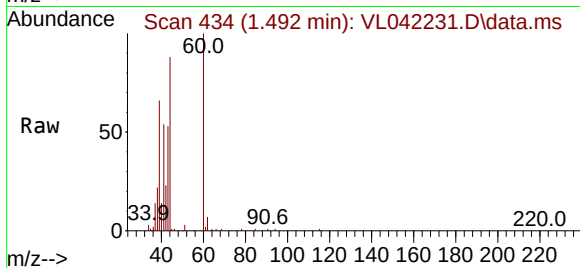
AA-1-03312025

Tgt Ion: 41 Resp: 6667

Ion Ratio Lower Upper

41 100

42 52.8 55.4 83.2#



#10

Heptane

Concen: 0.043 ppbv

RT: 4.998 min Scan# 1517

Delta R.T. 0.026 min

Lab File: VL042231.D

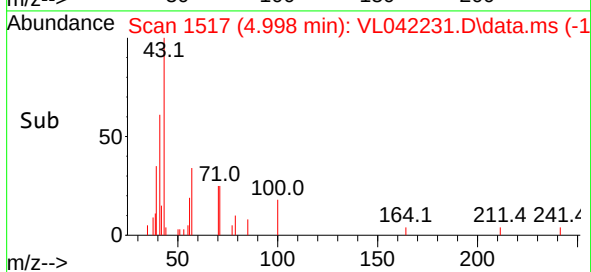
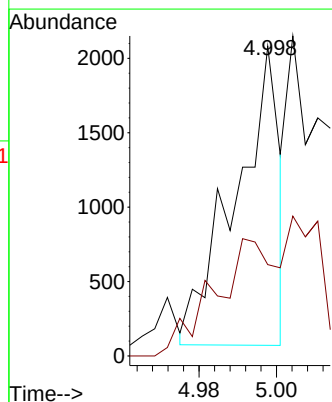
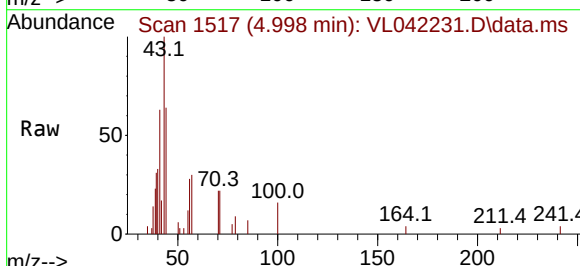
Acq: 07 Apr 2025 12:27

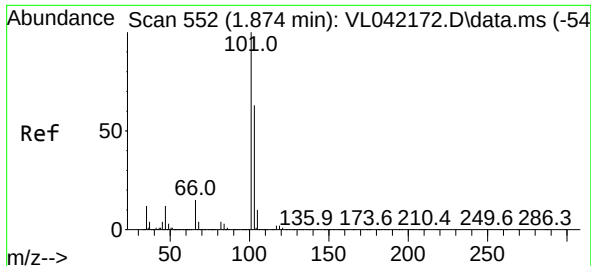
Tgt Ion: 43 Resp: 1591

Ion Ratio Lower Upper

43 100

57 0.0 39.4 59.2#

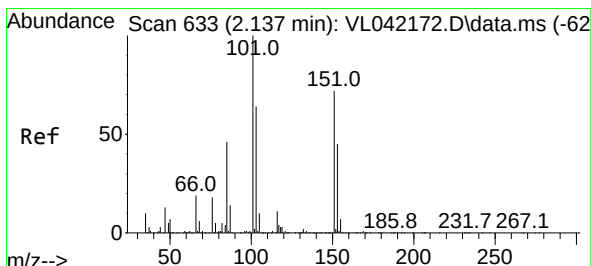
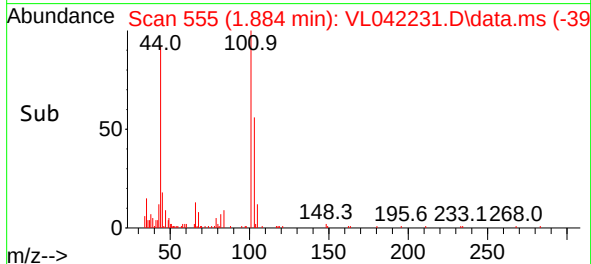
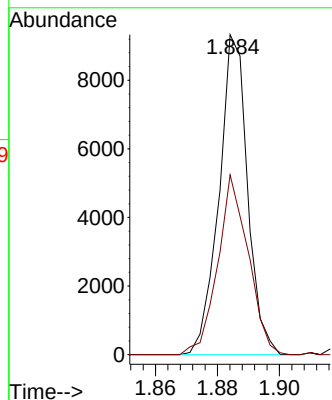
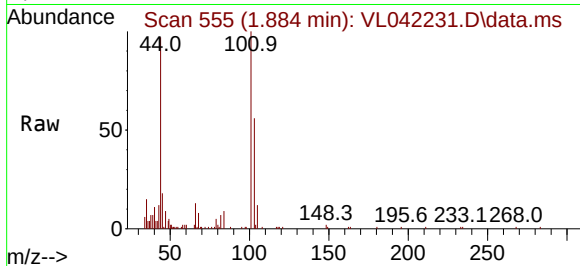




#11
 Trichlorofluoromethane
 Concen: 0.205 ppbv
 RT: 1.884 min Scan# 51
 Delta R.T. 0.010 min
 Lab File: VL042231.D
 Acq: 07 Apr 2025 12:27

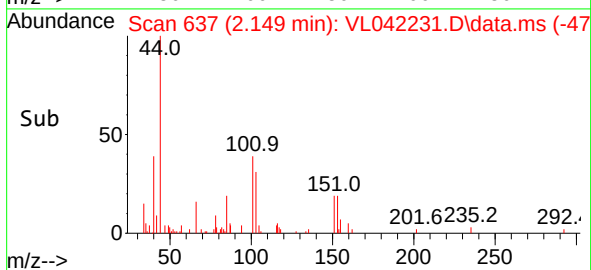
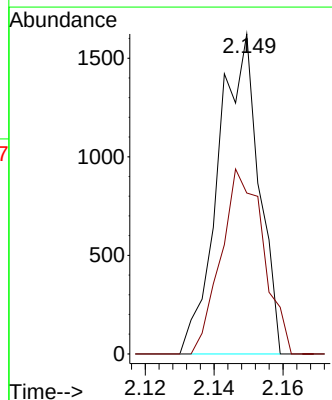
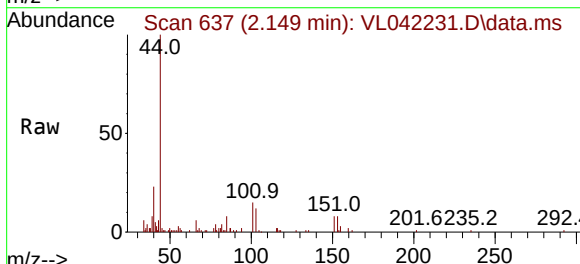
Instrument :
 MSVOA_L
 ClientSampleId :
 AA-1-03312025

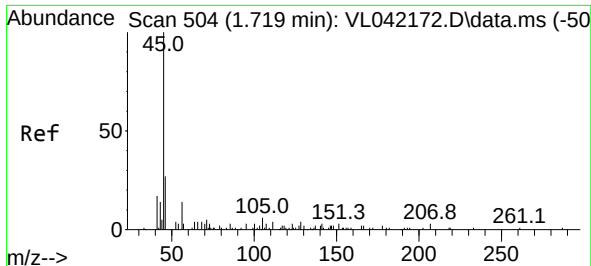
Tgt Ion:101 Resp: 5976
 Ion Ratio Lower Upper
 101 100
 103 56.2 50.2 75.2



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.056 ppbv
 RT: 2.149 min Scan# 637
 Delta R.T. 0.013 min
 Lab File: VL042231.D
 Acq: 07 Apr 2025 12:27

Tgt Ion:101 Resp: 1330
 Ion Ratio Lower Upper
 101 100
 151 60.1 57.1 85.7

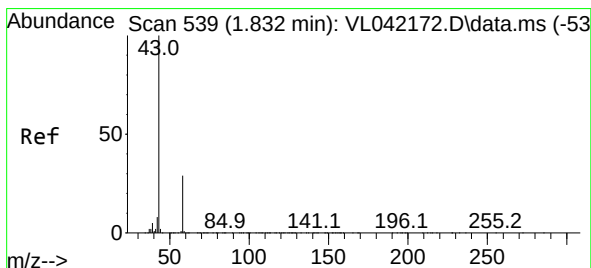
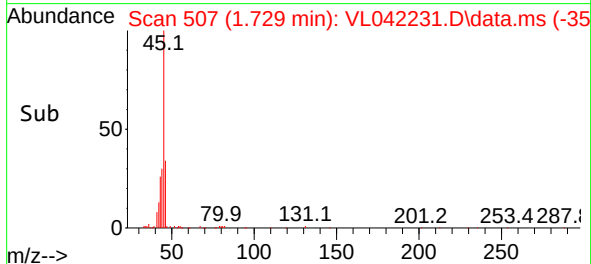
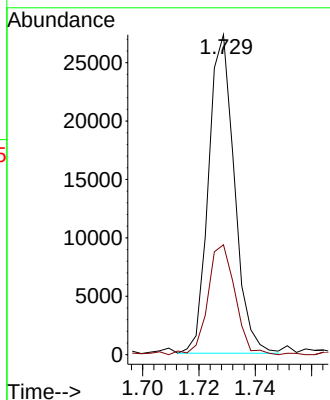
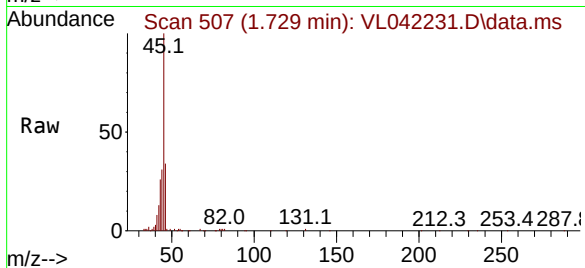




#13
Ethanol
Concen: 13.168 ppbv
RT: 1.729 min Scan# 504
Delta R.T. 0.010 min
Lab File: VL042231.D
Acq: 07 Apr 2025 12:27

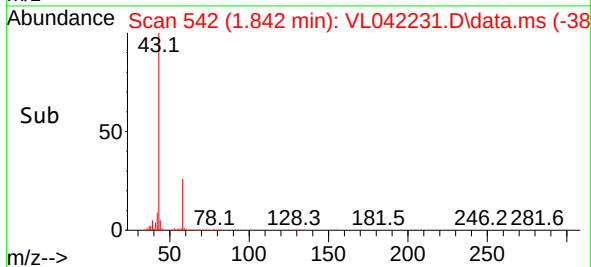
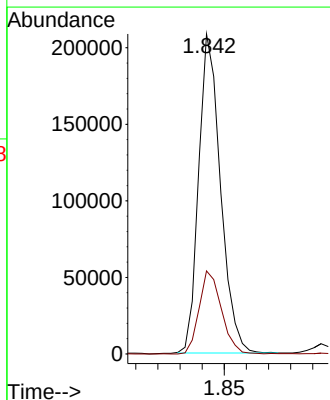
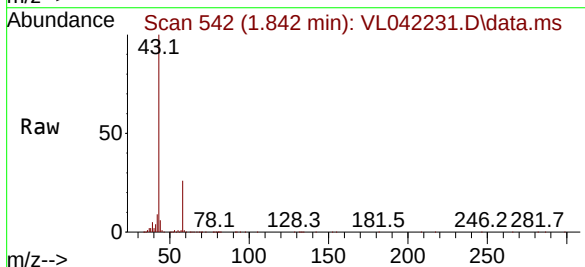
Instrument :
MSVOA_L
ClientSampleId :
AA-1-03312025

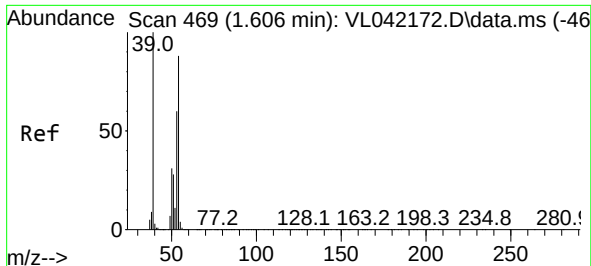
Tgt Ion: 45 Resp: 17438
Ion Ratio Lower Upper
45 100
46 37.7 20.2 80.8



#15
Acetone
Concen: 5.053 ppbv
RT: 1.842 min Scan# 542
Delta R.T. 0.010 min
Lab File: VL042231.D
Acq: 07 Apr 2025 12:27

Tgt Ion: 43 Resp: 143188
Ion Ratio Lower Upper
43 100
58 26.7 23.2 34.8

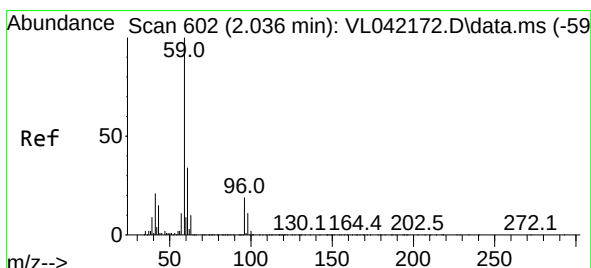
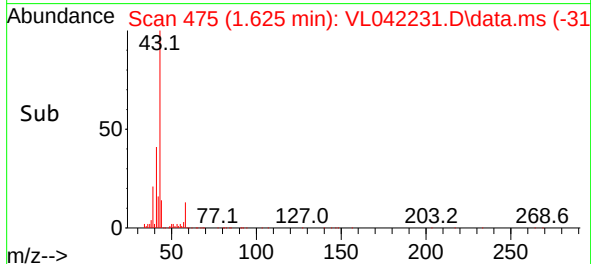
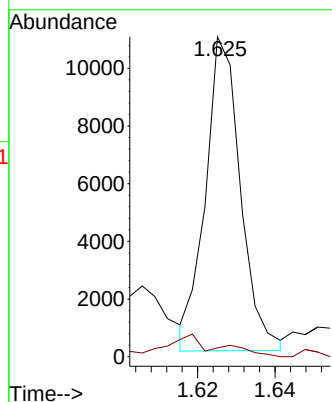
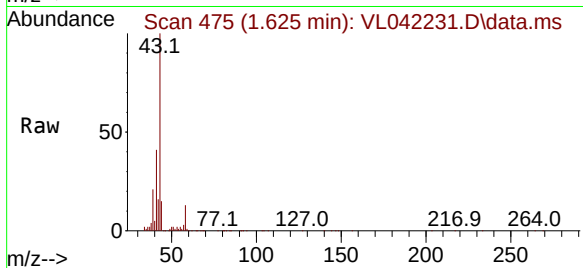




#16
1,3-Butadiene
Concen: 0.494 ppbv
RT: 1.625 min Scan# 41
Delta R.T. 0.019 min
Lab File: VL042231.D
Acq: 07 Apr 2025 12:27

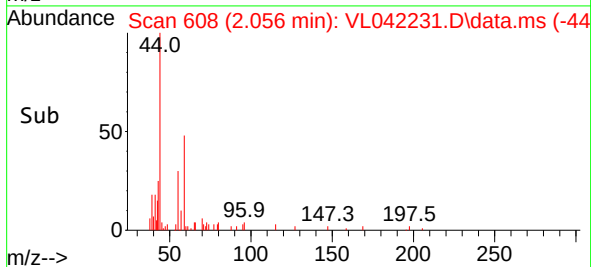
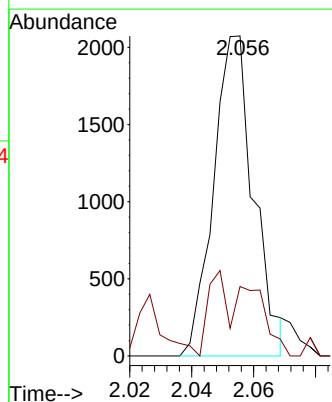
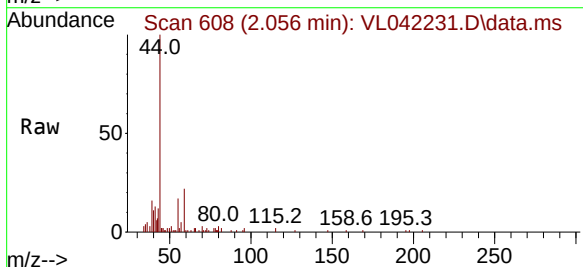
Instrument :
MSVOA_L
ClientSampleId :
AA-1-03312025

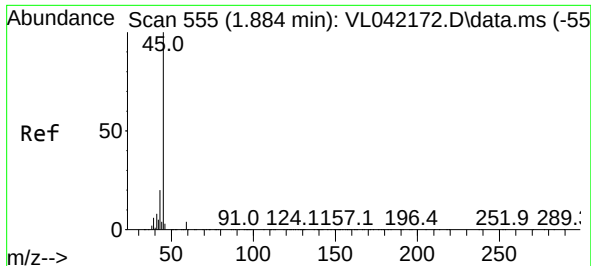
Tgt Ion: 39 Resp: 6834
Ion Ratio Lower Upper
39 100
54 16.1 60.7 91.1#



#17
tert-Butyl alcohol
Concen: 0.053 ppbv
RT: 2.056 min Scan# 608
Delta R.T. 0.019 min
Lab File: VL042231.D
Acq: 07 Apr 2025 12:27

Tgt Ion: 59 Resp: 1872
Ion Ratio Lower Upper
59 100
57 40.8 8.9 13.3#





#19

Isopropyl Alcohol

Concen: 1.089 ppbv

RT: 1.894 min Scan# 51

Delta R.T. 0.010 min

Lab File: VL042231.D

Acq: 07 Apr 2025 12:27

Instrument :

MSVOA_L

ClientSampleId :

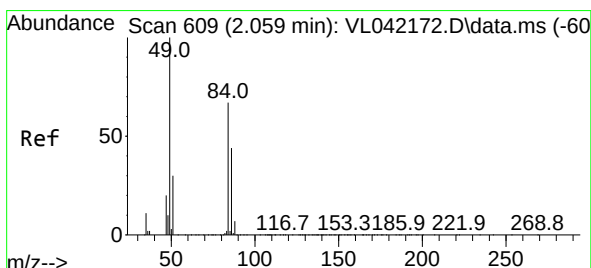
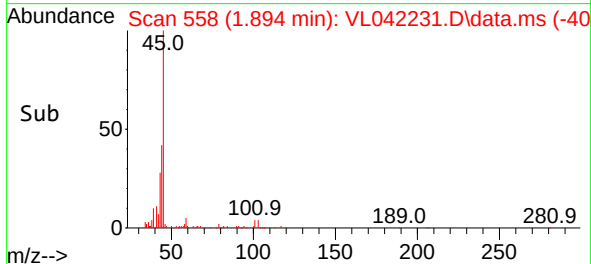
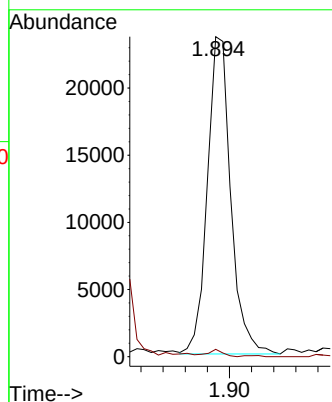
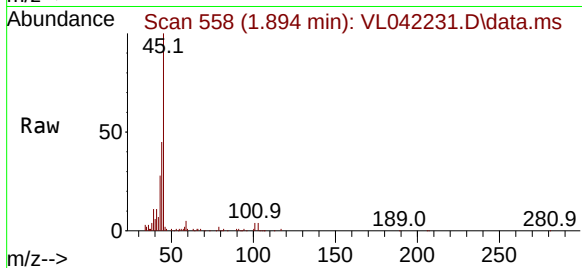
AA-1-03312025

Tgt Ion: 45 Resp: 17414

Ion Ratio Lower Upper

45 100

58 219.8 36.9 55.3#



#20

Methylene Chloride

Concen: 0.404 ppbv

RT: 2.072 min Scan# 613

Delta R.T. 0.013 min

Lab File: VL042231.D

Acq: 07 Apr 2025 12:27

Tgt Ion: 84 Resp: 4263

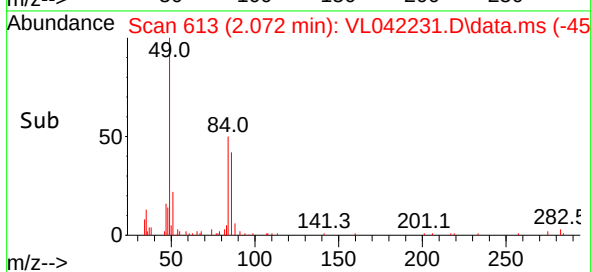
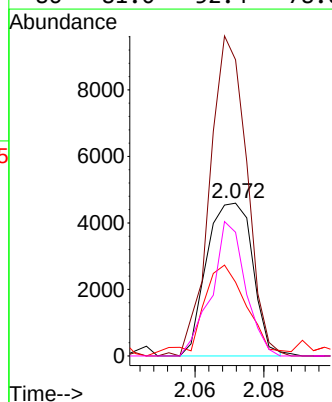
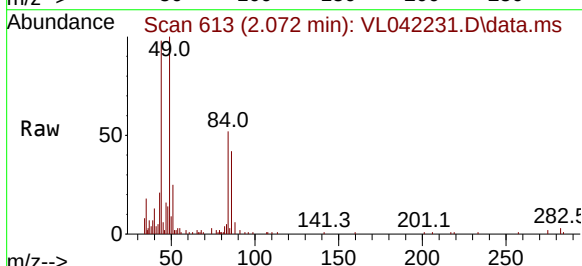
Ion Ratio Lower Upper

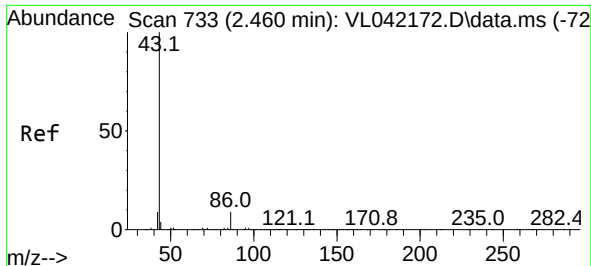
84 100

49 191.3 120.2 180.4#

51 44.7 37.4 56.0

86 81.0 52.4 78.6#

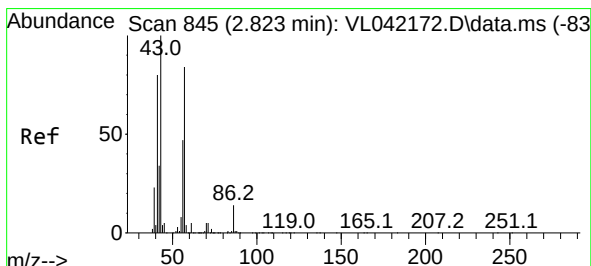
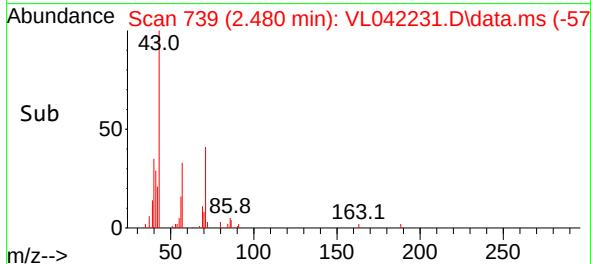
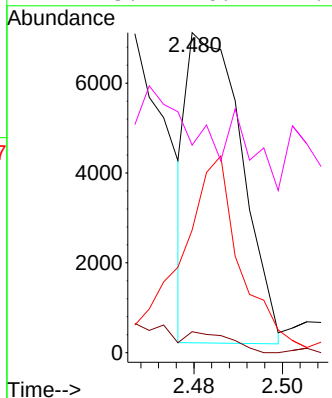
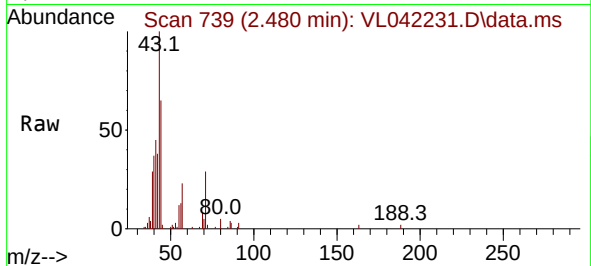




#23
 Vinyl Acetate
 Concen: 0.479 ppbv
 RT: 2.480 min Scan# 71
 Delta R.T. 0.019 min
 Lab File: VL042231.D
 Acq: 07 Apr 2025 12:27

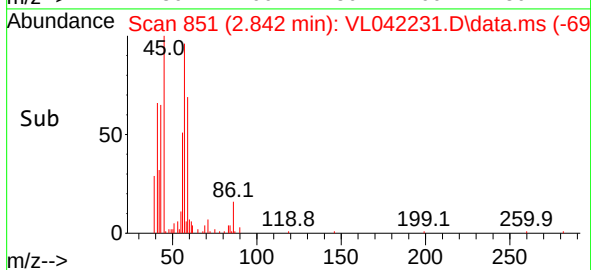
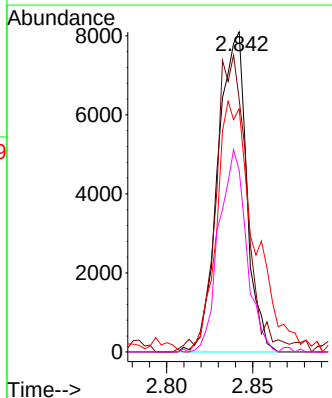
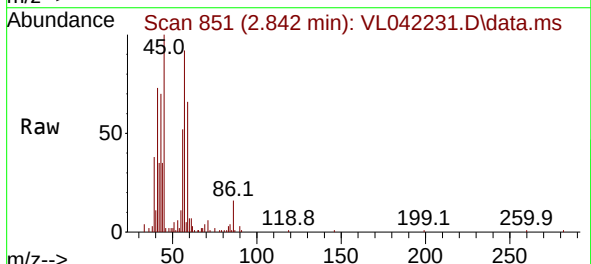
Instrument :
 MSVOA_L
 ClientSampleId :
 AA-1-03312025

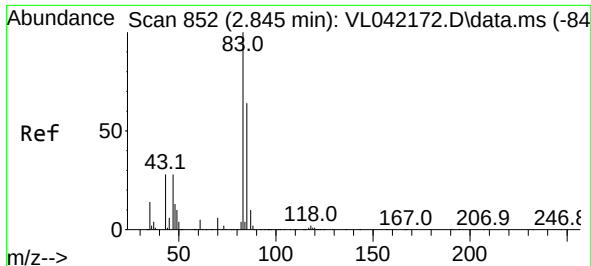
Tgt Ion: 43	Resp: 5875
Ion Ratio	Lower Upper
43 100	
86 7.0	5.5 8.3
42 33.3	8.6 13.0#
44 15.1	6.2 9.4#



#26
 Hexane
 Concen: 0.329 ppbv
 RT: 2.842 min Scan# 851
 Delta R.T. 0.019 min
 Lab File: VL042231.D
 Acq: 07 Apr 2025 12:27

Tgt Ion: 57	Resp: 9360
Ion Ratio	Lower Upper
57 100	
41 101.0	76.6 114.8
43 110.0	207.8 311.8#
56 61.5	43.6 65.4





#29

Chloroform

Concen: 0.043 ppbv

RT: 2.862 min Scan# 81

Delta R.T. 0.016 min

Lab File: VL042231.D

Acq: 07 Apr 2025 12:27

Instrument :

MSVOA_L

ClientSampleId :

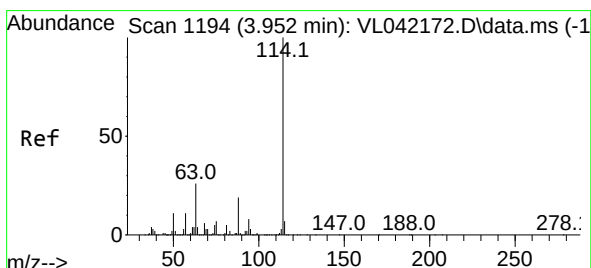
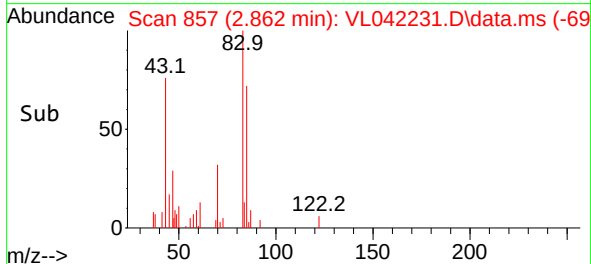
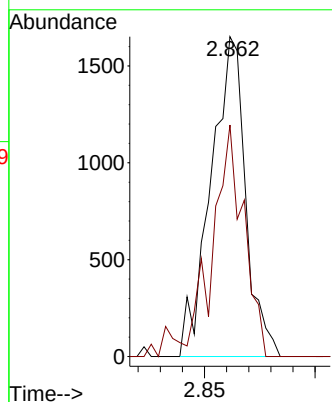
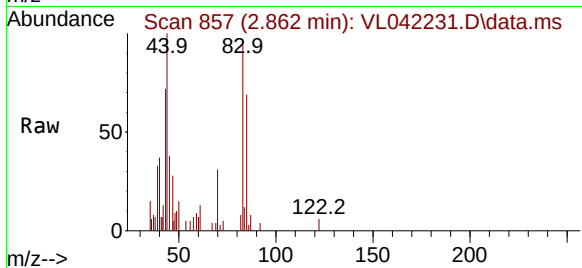
AA-1-03312025

Tgt Ion: 83 Resp: 1797

Ion Ratio Lower Upper

83 100

85 64.1 51.4 77.2



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.978 min Scan# 1202

Delta R.T. 0.026 min

Lab File: VL042231.D

Acq: 07 Apr 2025 12:27

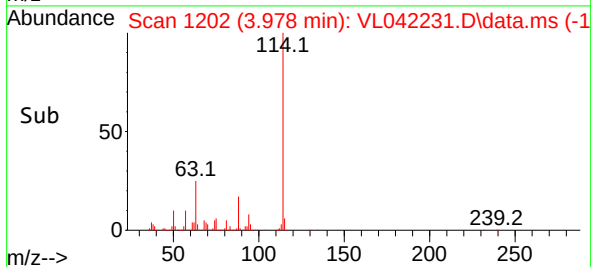
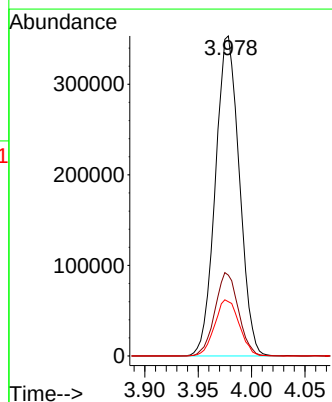
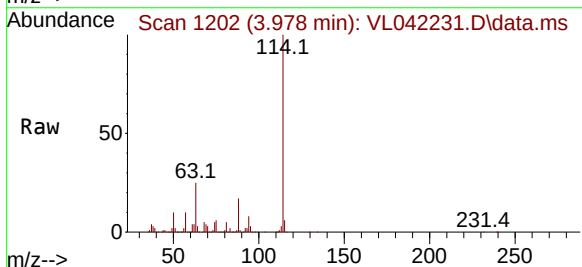
Tgt Ion: 114 Resp: 551417

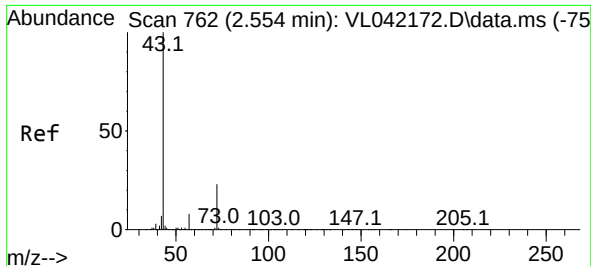
Ion Ratio Lower Upper

114 100

63 25.6 20.7 31.1

88 18.0 15.0 22.4

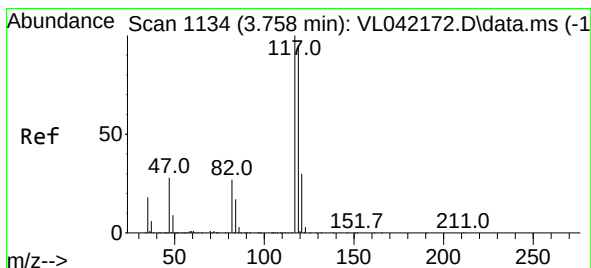
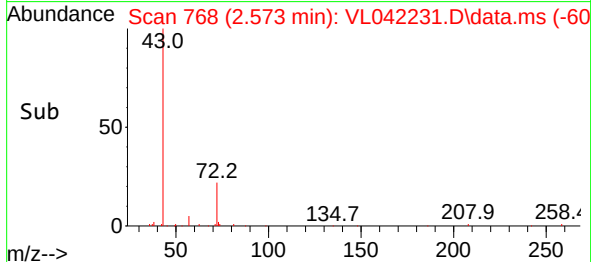
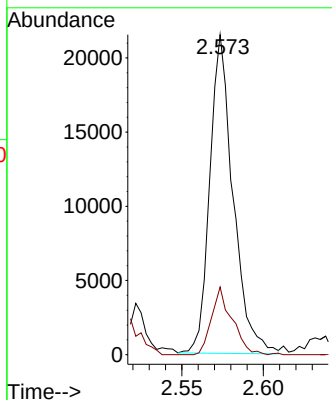
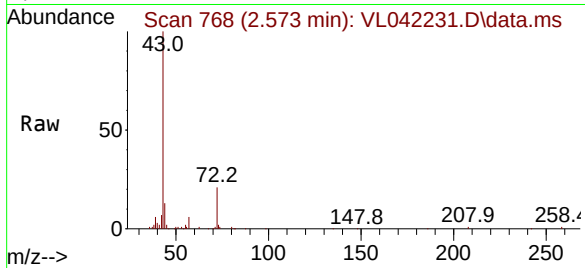




#34
2-Butanone
Concen: 0.534 ppbv
RT: 2.573 min Scan# 768
Delta R.T. 0.019 min
Lab File: VL042231.D
Acq: 07 Apr 2025 12:27

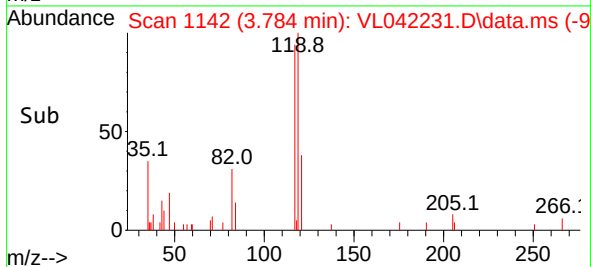
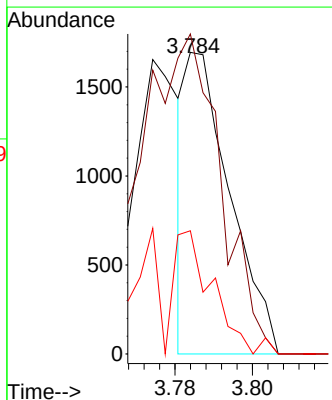
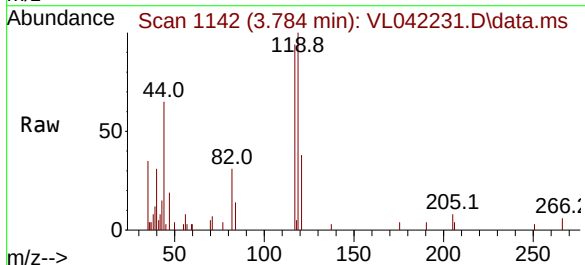
Instrument :
MSVOA_L
ClientSampleId :
AA-1-03312025

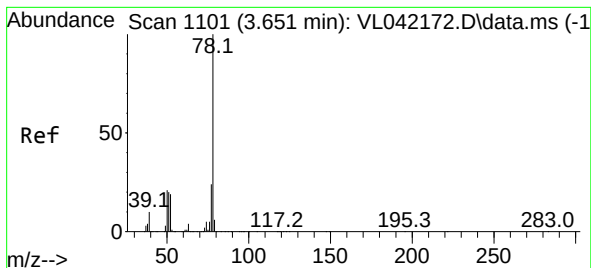
Tgt Ion: 43 Resp: 21340
Ion Ratio Lower Upper
43 100
72 18.9 18.2 27.2



#35
Carbon Tetrachloride
Concen: 0.031 ppbv
RT: 3.784 min Scan# 1142
Delta R.T. 0.026 min
Lab File: VL042231.D
Acq: 07 Apr 2025 12:27

Tgt Ion: 117 Resp: 1350
Ion Ratio Lower Upper
117 100
119 106.1 76.2 114.2
121 40.8 24.2 36.4#





#36

Benzene

Concen: 0.137 ppbv

RT: 3.671 min Scan# 1101

Delta R.T. 0.019 min

Lab File: VL042231.D

Acq: 07 Apr 2025 12:27

Instrument :

MSVOA_L

ClientSampleId :

AA-1-03312025

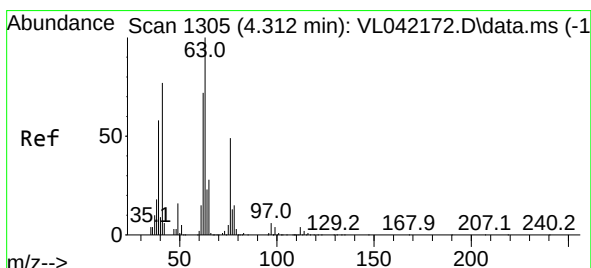
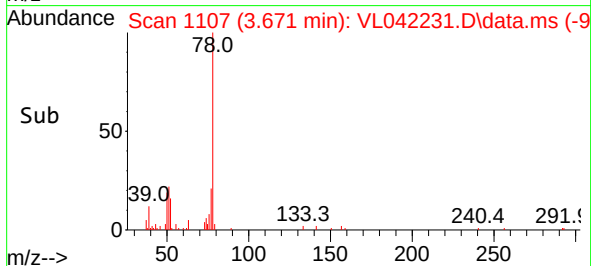
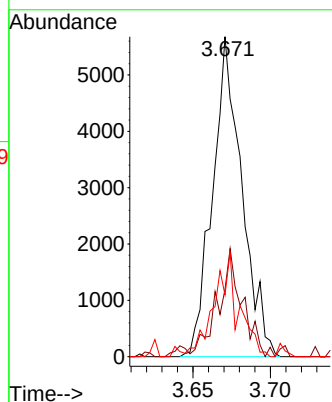
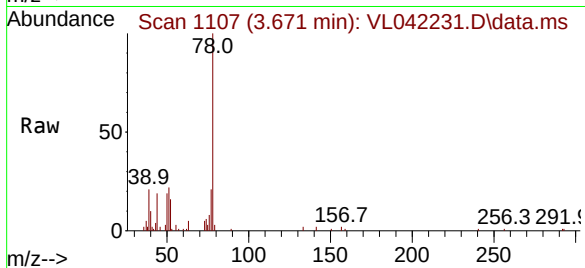
Tgt Ion: 78 Resp: 7483

Ion Ratio Lower Upper

78 100

77 18.7 19.1 28.7#

50 17.7 16.6 24.8



#39

1,2-Dichloropropane

Concen: 7.086 ppbv

RT: 3.975 min Scan# 1201

Delta R.T. -0.337 min

Lab File: VL042231.D

Acq: 07 Apr 2025 12:27

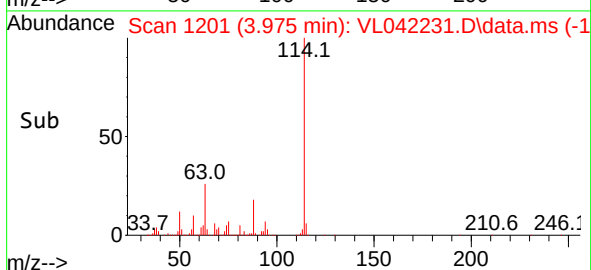
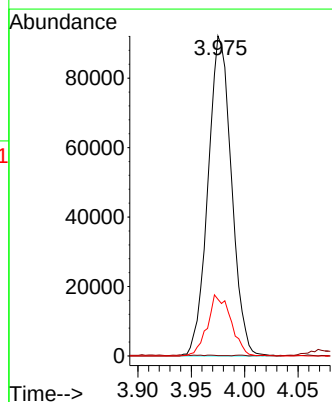
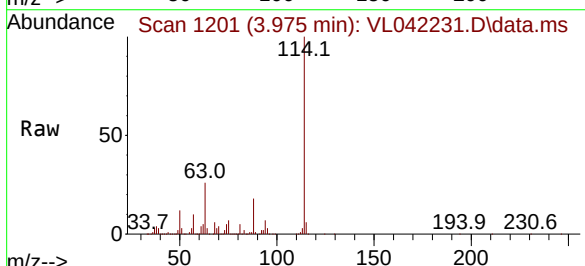
Tgt Ion: 63 Resp: 141072

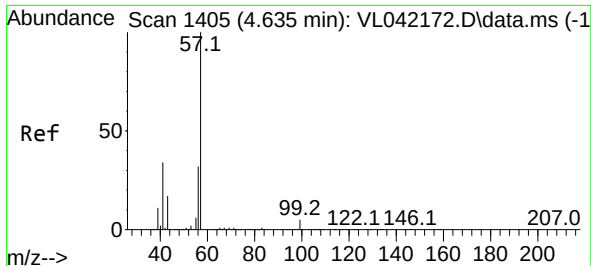
Ion Ratio Lower Upper

63 100

41 0.0 61.7 92.5#

62 17.7 57.6 86.4#

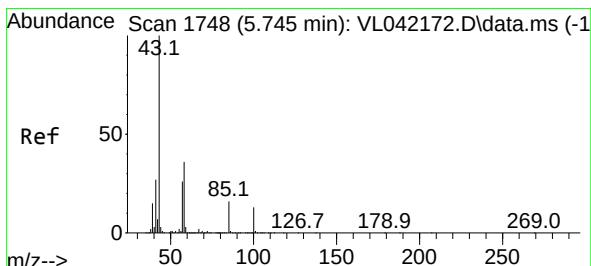
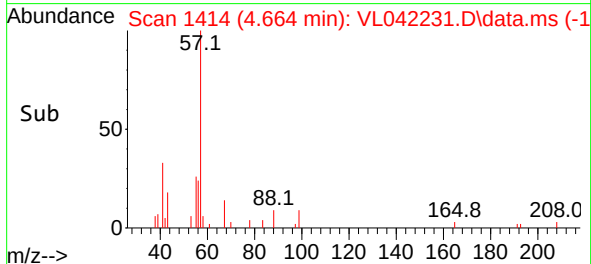
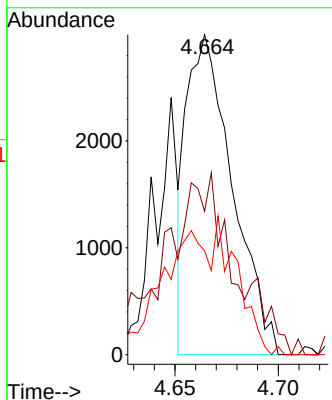
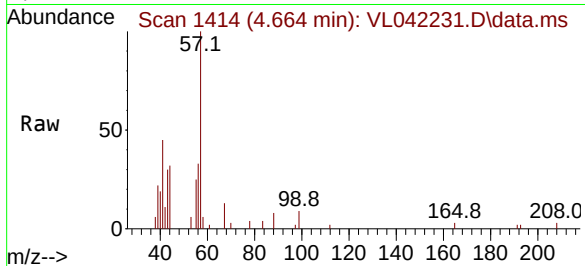




#44
 2,2,4-Trimethylpentane
 Concen: 0.050 ppbv
 RT: 4.664 min Scan# 1405
 Delta R.T. 0.029 min
 Lab File: VL042231.D
 Acq: 07 Apr 2025 12:27

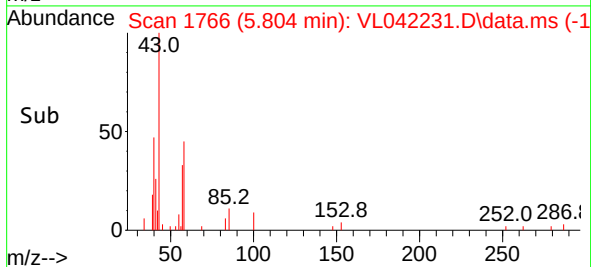
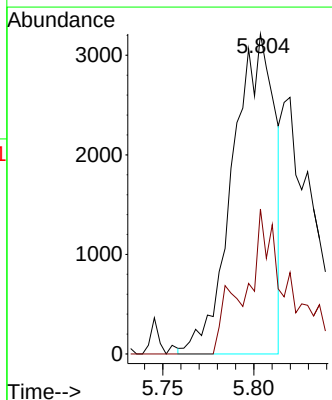
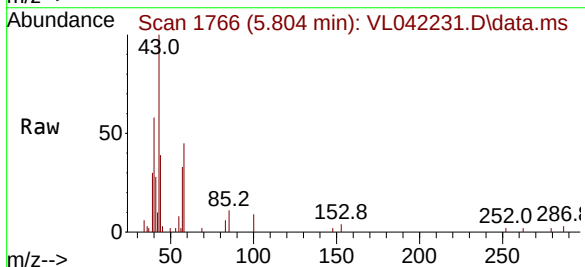
Instrument :
 MSVOA_L
 ClientSampleId :
 AA-1-03312025

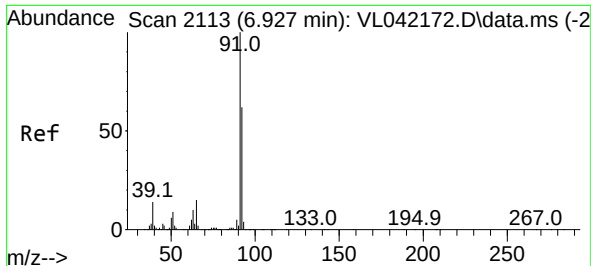
Tgt Ion:	57	Resp:	4650
Ion	Ratio	Lower	Upper
57	100		
41	95.6	26.8	40.2#
56	60.4	25.6	38.4#



#50
 4-Methyl-2-Pentanone
 Concen: 0.081 ppbv
 RT: 5.804 min Scan# 1766
 Delta R.T. 0.058 min
 Lab File: VL042231.D
 Acq: 07 Apr 2025 12:27

Tgt Ion:	43	Resp:	5156
Ion	Ratio	Lower	Upper
43	100		
58	50.2	29.0	43.6#

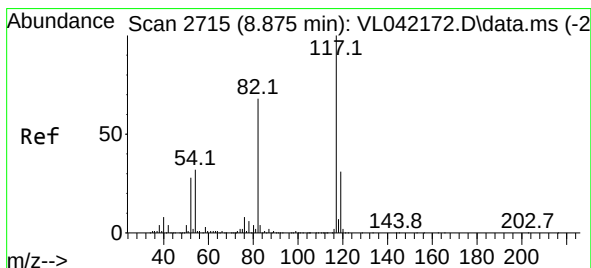
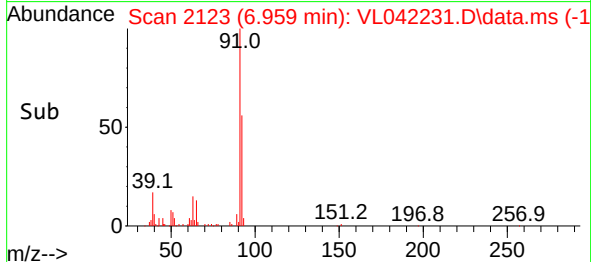
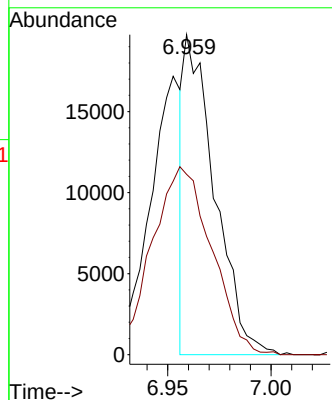
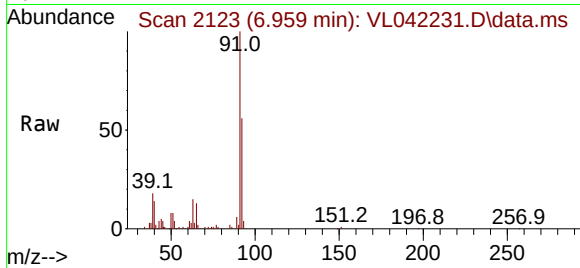




#53
Toluene
Concen: 0.313 ppbv
RT: 6.959 min Scan# 2113
Delta R.T. 0.032 min
Lab File: VL042231.D
Acq: 07 Apr 2025 12:27

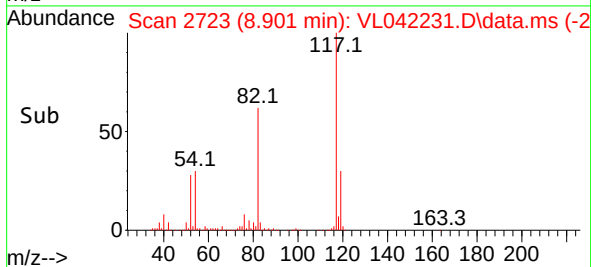
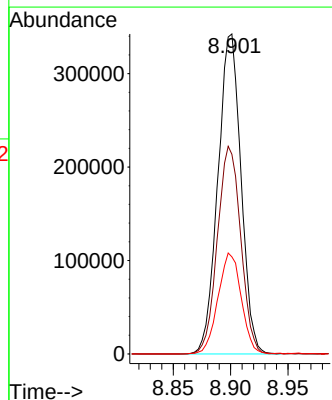
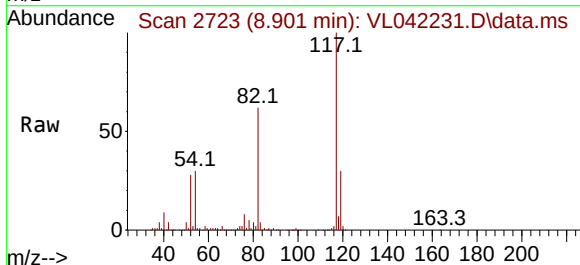
Instrument :
MSVOA_L
ClientSampleId :
AA-1-03312025

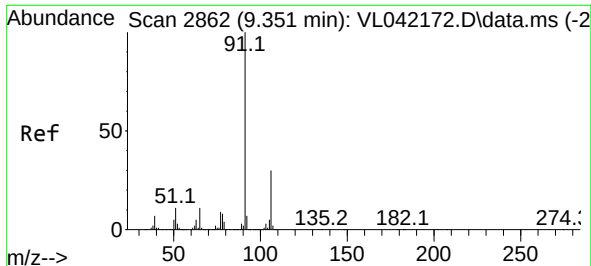
Tgt Ion: 91 Resp: 20311
Ion Ratio Lower Upper
91 100
92 115.8 48.4 72.6#



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.901 min Scan# 2723
Delta R.T. 0.026 min
Lab File: VL042231.D
Acq: 07 Apr 2025 12:27

Tgt Ion: 117 Resp: 479781
Ion Ratio Lower Upper
117 100
82 65.5 55.8 83.6
119 32.0 25.5 38.3

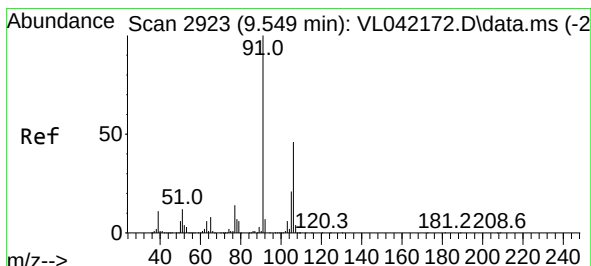
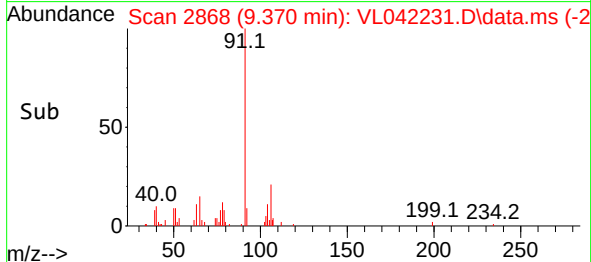
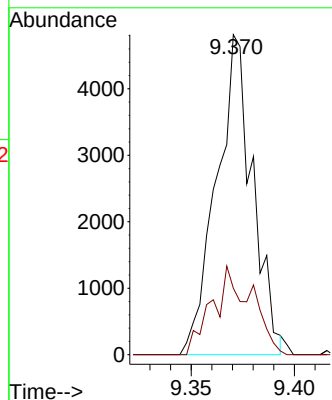
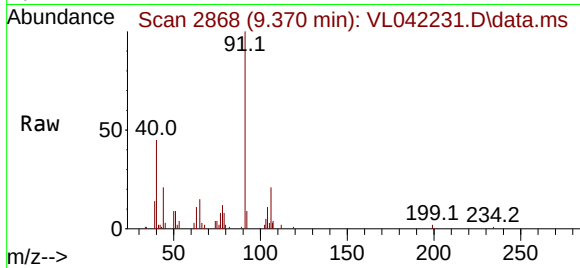




#58
Ethyl Benzene
Concen: 0.069 ppbv
RT: 9.370 min Scan# 21
Delta R.T. 0.019 min
Lab File: VL042231.D
Acq: 07 Apr 2025 12:27

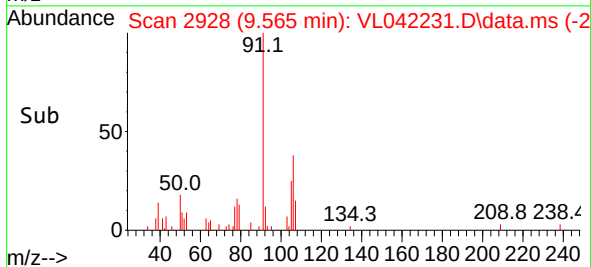
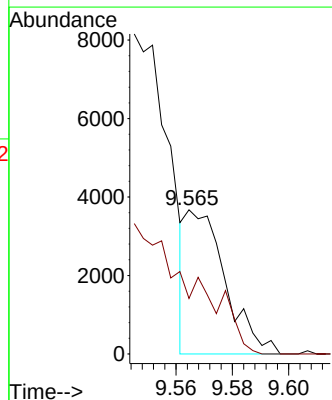
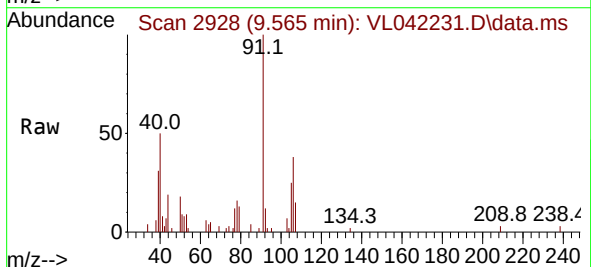
Instrument :
MSVOA_1
ClientSampleId :
AA-1-03312025

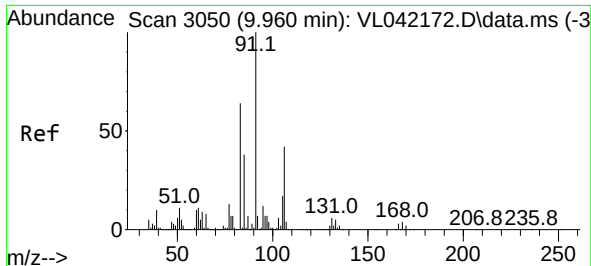
Tgt Ion: 91 Resp: 5840
Ion Ratio Lower Upper
91 100
106 20.8 24.2 36.2#



#59
m/p-Xylene
Concen: 0.052 ppbv
RT: 9.565 min Scan# 2928
Delta R.T. 0.016 min
Lab File: VL042231.D
Acq: 07 Apr 2025 12:27

Tgt Ion: 91 Resp: 3568
Ion Ratio Lower Upper
91 100
106 0.0 36.4 54.6#

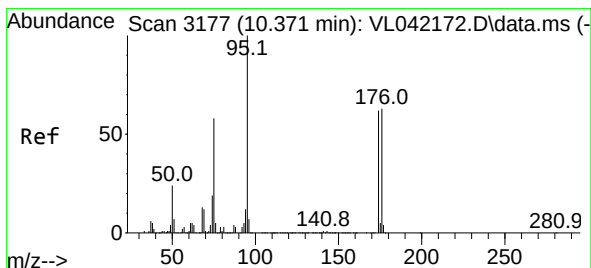
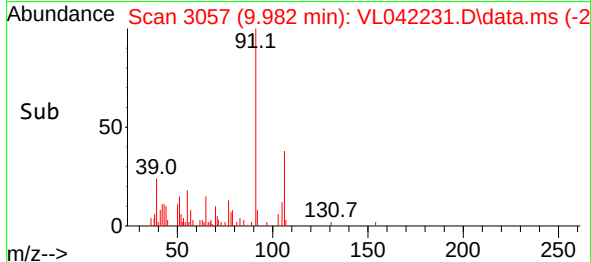
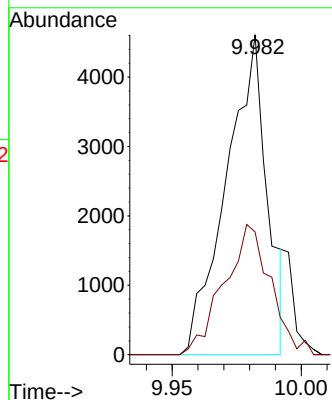
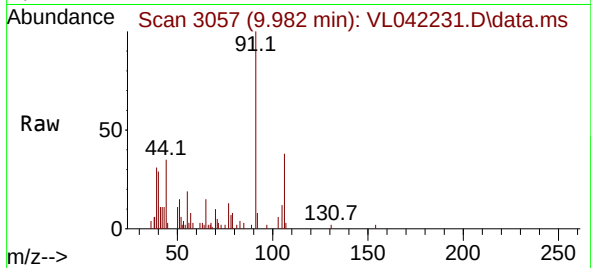




#60
o-Xylene
Concen: 0.074 ppbv
RT: 9.982 min Scan# 3057
Delta R.T. 0.023 min
Lab File: VL042231.D
Acq: 07 Apr 2025 12:27

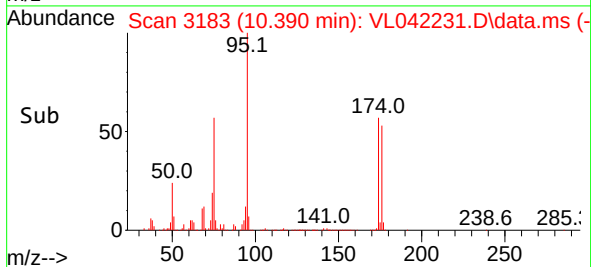
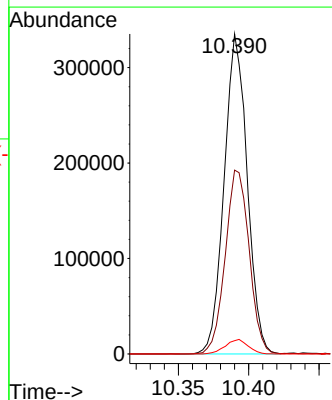
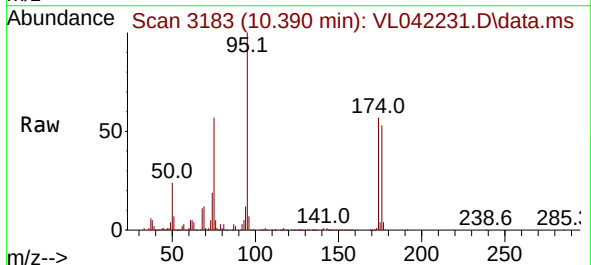
Instrument :
MSVOA_L
ClientSampleId :
AA-1-03312025

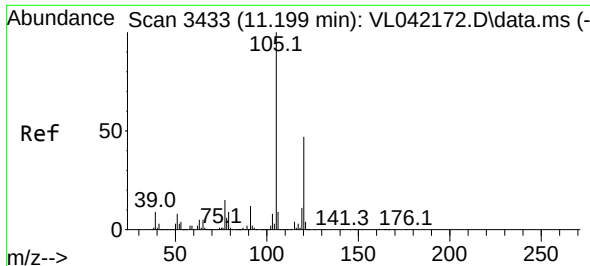
Tgt Ion: 91 Resp: 5058
Ion Ratio Lower Upper
91 100
106 46.3 20.8 62.5



#68
1-Bromo-4-Fluorobenzene
Concen: 9.674 ppbv
RT: 10.390 min Scan# 3183
Delta R.T. 0.019 min
Lab File: VL042231.D
Acq: 07 Apr 2025 12:27

Tgt Ion: 95 Resp: 381172
Ion Ratio Lower Upper
95 100
174 59.8 50.6 76.0
175 4.5 3.8 5.6

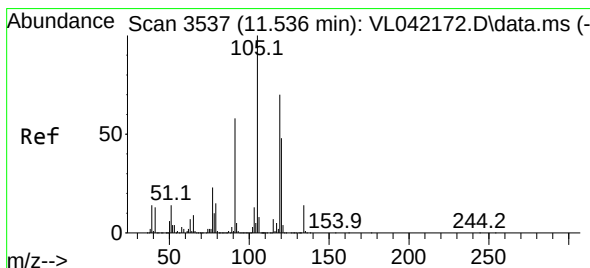
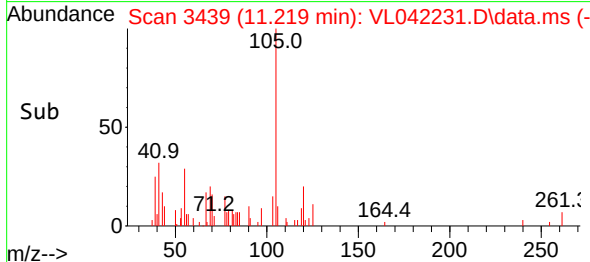
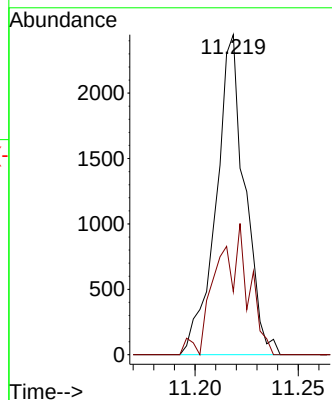
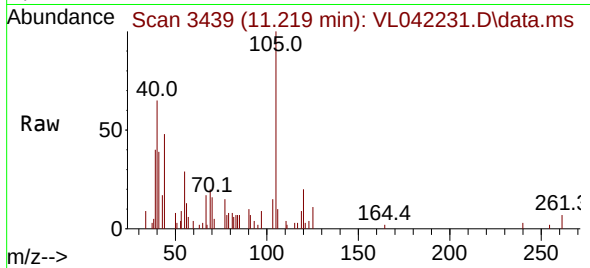




#73
 1,3,5-Trimethylbenzene
 Concen: 0.032 ppbv
 RT: 11.219 min Scan# 3439
 Delta R.T. 0.019 min
 Lab File: VL042231.D
 Acq: 07 Apr 2025 12:27

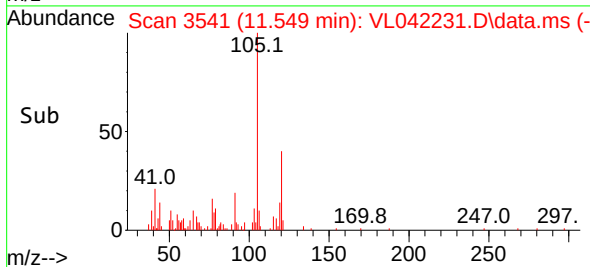
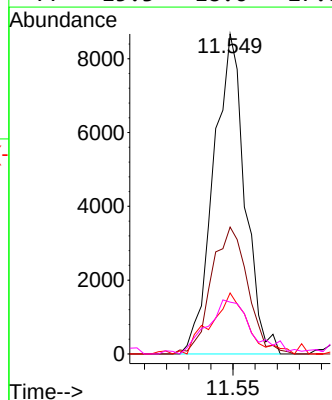
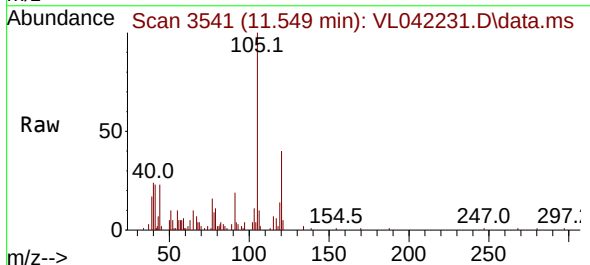
Instrument :
 MSVOA_L
 ClientSampleId :
 AA-1-03312025

Tgt Ion:105 Resp: 2375
 Ion Ratio Lower Upper
 105 100
 120 19.7 37.4 56.0#



#74
 1,2,4-Trimethylbenzene
 Concen: 0.100 ppbv
 RT: 11.549 min Scan# 3541
 Delta R.T. 0.013 min
 Lab File: VL042231.D
 Acq: 07 Apr 2025 12:27

Tgt Ion:105 Resp: 8564
 Ion Ratio Lower Upper
 105 100
 120 38.5 38.6 58.0#
 91 18.1 46.2 69.2#
 77 15.3 18.6 27.8#



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040725\
 Data File : VL042234.D
 Acq On : 07 Apr 2025 14:18
 Operator : SY/MD
 Sample : Q1725-01
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SSSG-B1-2-04012025

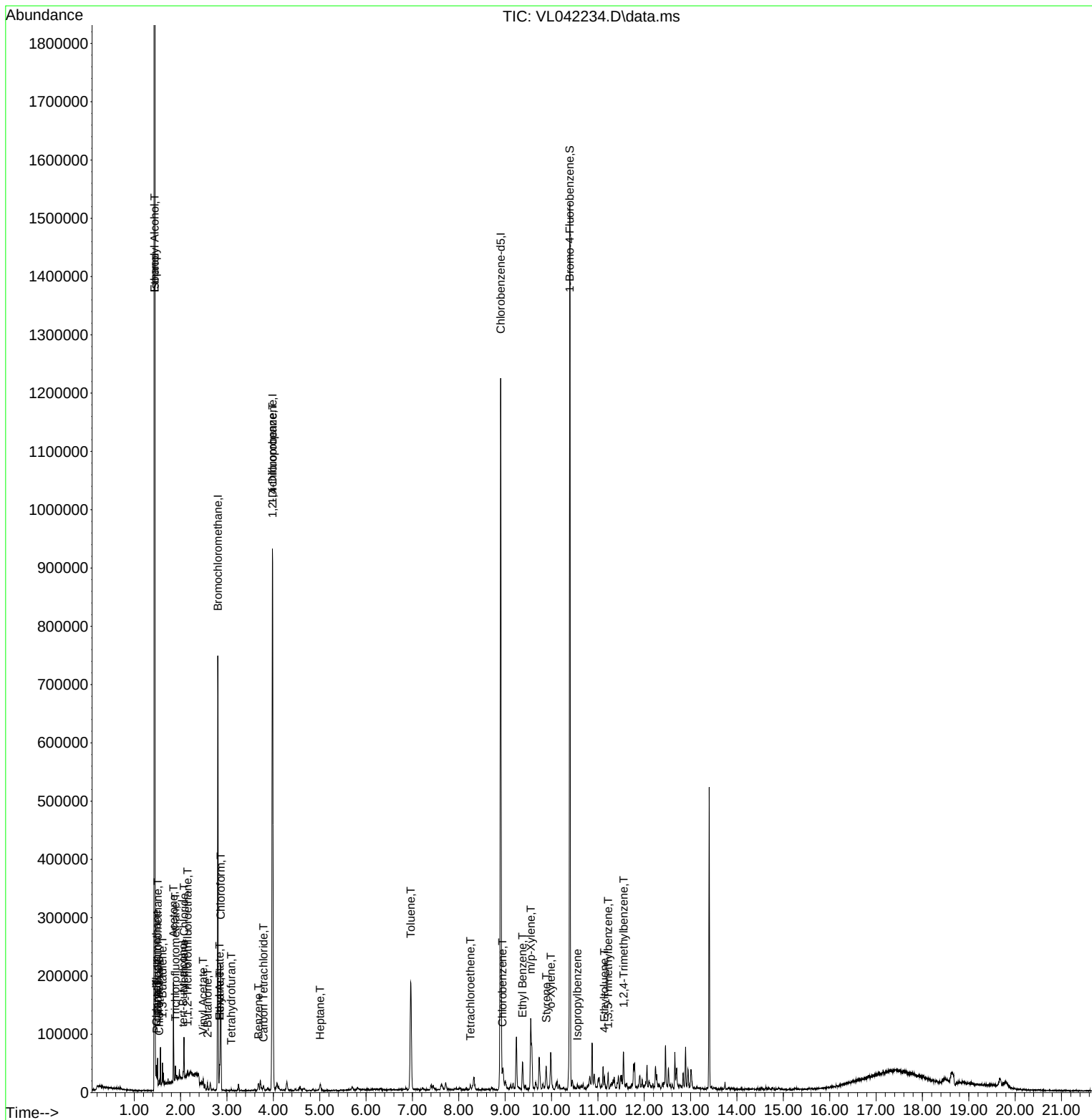
Quant Time: Apr 08 01:32:03 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri Mar 28 02:00:52 2025
 Response via : Initial Calibration

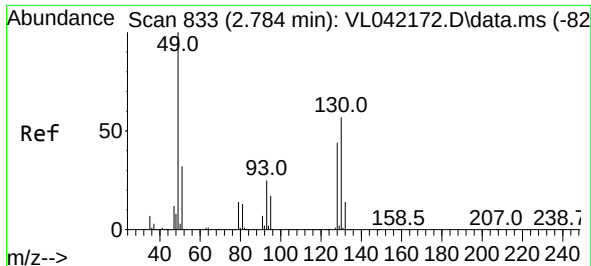
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	2.803	49	198158	10.000	ppbv	0.02
33) 1,4-Difluorobenzene	3.981	114	527291	10.000	ppbv	0.03
55) Chlorobenzene-d5	8.904	117	473671	10.000	ppbv	0.03
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.393	95	385746	9.917	ppbv	0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.200%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.505	85	11751	0.402	ppbv	91
3) Chlorodifluoromethane	1.480	51	8937	0.299	ppbv #	88
4) Chloromethane	1.538	50	1133	0.095	ppbv	97
9) Propene	1.489	41	1293	0.094	ppbv	87
10) Heptane	5.011	43	3028	0.083	ppbv #	63
11) Trichlorofluoromethane	1.887	101	6010	0.211	ppbv	90
12) 1,1,2-Trichlorotrifluo...	2.150	101	1400	0.060	ppbv	87
13) Ethanol	1.441	45	235284	181.676	ppbv #	29
15) Acetone	1.845	43	70052	2.528	ppbv	96
16) 1,3-Butadiene	1.609	39	4232	0.313	ppbv #	31
17) tert-Butyl alcohol	2.056	59	3925	0.114	ppbv #	86
19) Isopropyl Alcohol	1.441	45	235284	15.047	ppbv #	30
20) Methylene Chloride	2.072	84	10076	0.976	ppbv	99
23) Vinyl Acetate	2.486	43	4130	0.344	ppbv #	50
25) Ethyl Acetate	2.842	43	8241	0.115	ppbv #	74
26) Hexane	2.845	57	3892	0.140	ppbv #	39
29) Chloroform	2.865	83	81943	2.015	ppbv	98
34) 2-Butanone	2.580	43	7789	0.204	ppbv	93
35) Carbon Tetrachloride	3.791	117	2669	0.065	ppbv #	55
36) Benzene	3.680	78	7218	0.138	ppbv #	88
39) 1,2-Dichloropropane	3.985	63	136029	7.145	ppbv #	22
41) Tetrahydrofuran	3.095	42	675	0.031	ppbv #	74
52) Tetrachloroethene	8.251	164	622	0.030	ppbv #	76
53) Toluene	6.966	91	132108	2.132	ppbv	98
57) Chlorobenzene	8.940	112	8901	0.198	ppbv #	76
58) Ethyl Benzene	9.374	91	23493	0.279	ppbv	92
59) m/p-Xylene	9.552	91	79086	1.177	ppbv	99
60) o-Xylene	9.985	91	26822	0.398	ppbv	92
61) Styrene	9.888	104	7302	0.219	ppbv	97
62) Isopropylbenzene	10.558	105	3342	0.033	ppbv	97
72) 4-Ethyltoluene	11.141	105	6813	0.081	ppbv #	55
73) 1,3,5-Trimethylbenzene	11.222	105	5904	0.081	ppbv	94
74) 1,2,4-Trimethylbenzene	11.555	105	19699	0.233	ppbv #	67

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

Quant Time: Apr 08 01:32:03 2025
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QLast Update : Fri Mar 28 02:00:52 2025
Response via : Initial Calibration

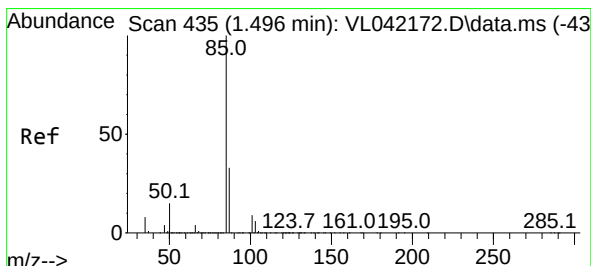
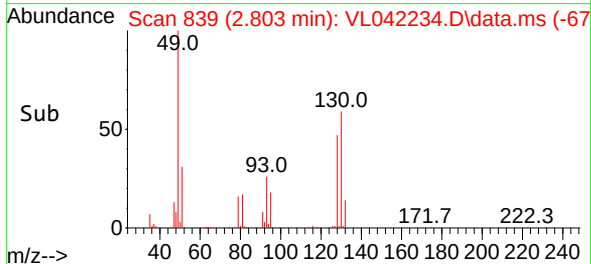
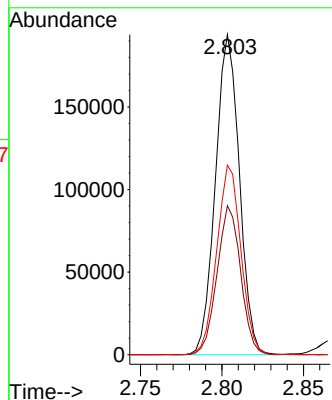
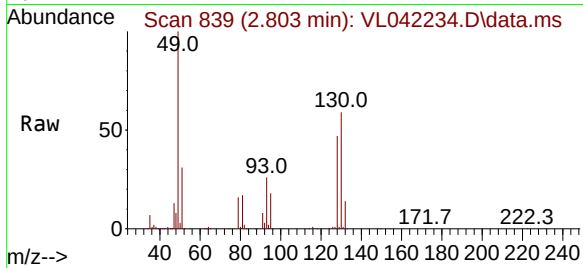




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 2.803 min Scan# 81
 Delta R.T. 0.019 min
 Lab File: VL042234.D
 Acq: 07 Apr 2025 14:18

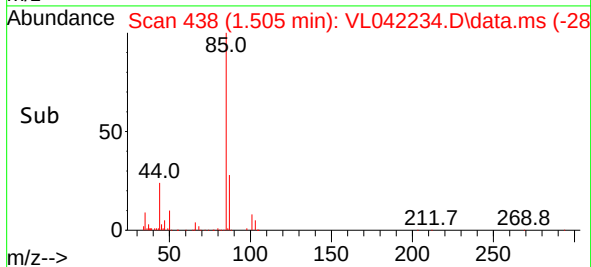
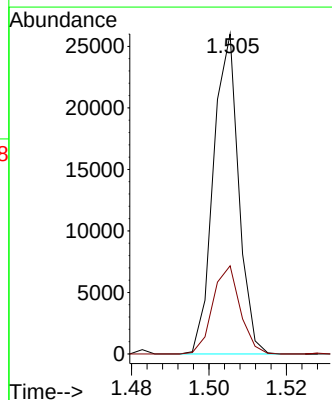
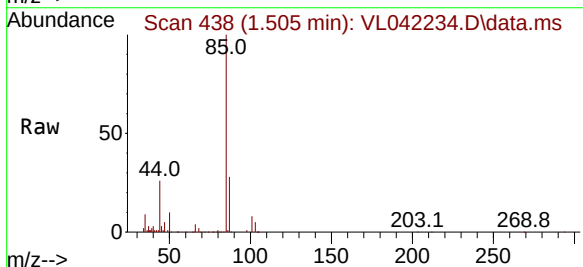
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 SSSG-B1-2-04012025

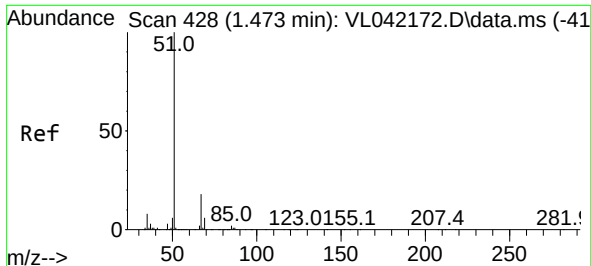
Tgt Ion: 49 Resp: 198158
 Ion Ratio Lower Upper
 49 100
 128 45.8 22.9 68.5
 130 59.8 28.8 86.4



#2
 Dichlorodifluoromethane
 Concen: 0.402 ppbv
 RT: 1.505 min Scan# 438
 Delta R.T. 0.010 min
 Lab File: VL042234.D
 Acq: 07 Apr 2025 14:18

Tgt Ion: 85 Resp: 11751
 Ion Ratio Lower Upper
 85 100
 87 27.6 26.1 39.1

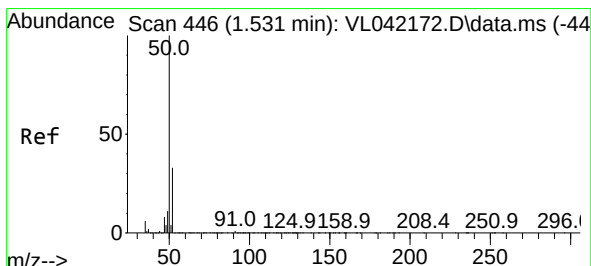
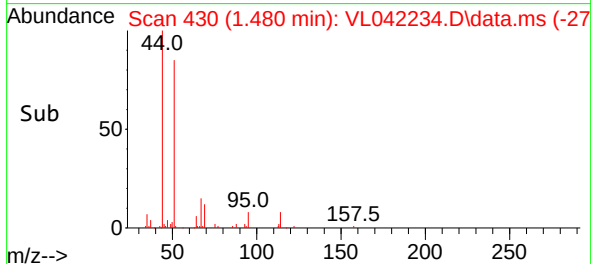
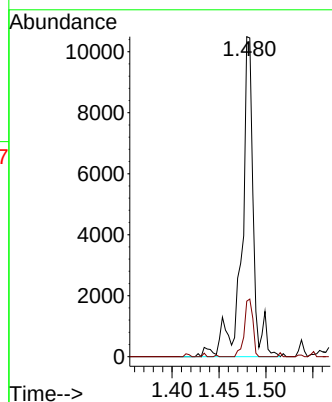
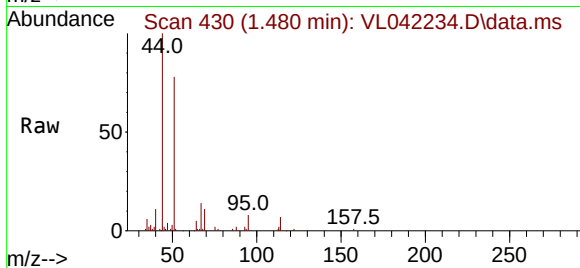




#3
Chlorodifluoromethane
Concen: 0.299 ppbv
RT: 1.480 min Scan# 41
Delta R.T. 0.006 min
Lab File: VL042234.D
Acq: 07 Apr 2025 14:18

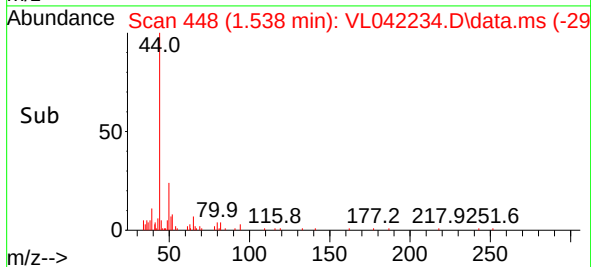
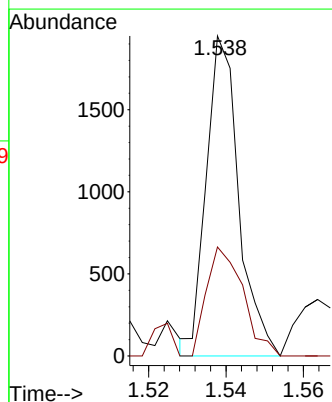
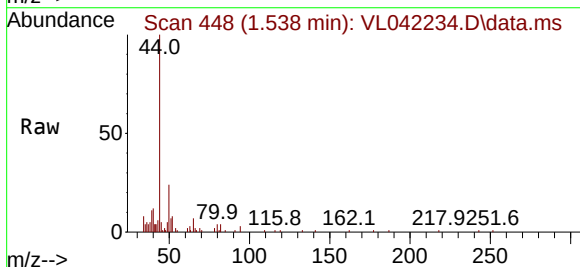
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SSSG-B1-2-04012025

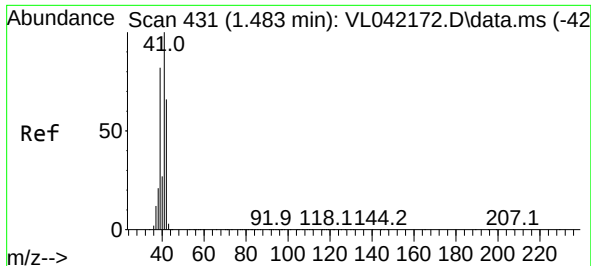
Tgt Ion: 51 Resp: 8937
Ion Ratio Lower Upper
51 100
67 13.5 15.0 22.6#



#4
Chloromethane
Concen: 0.095 ppbv
RT: 1.538 min Scan# 448
Delta R.T. 0.006 min
Lab File: VL042234.D
Acq: 07 Apr 2025 14:18

Tgt Ion: 50 Resp: 1133
Ion Ratio Lower Upper
50 100
52 34.1 26.1 39.1

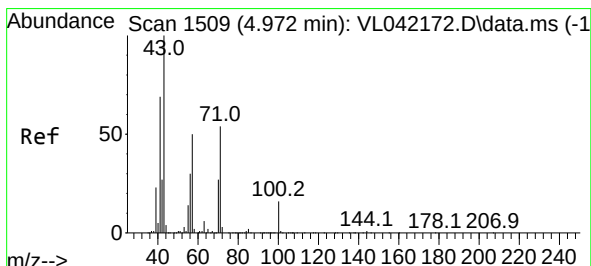
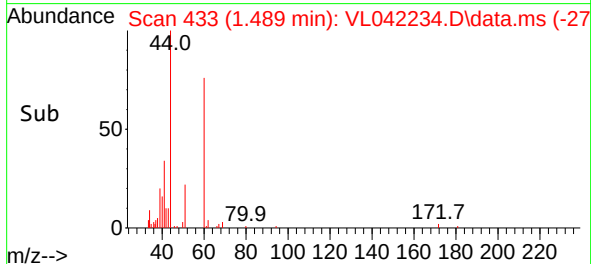
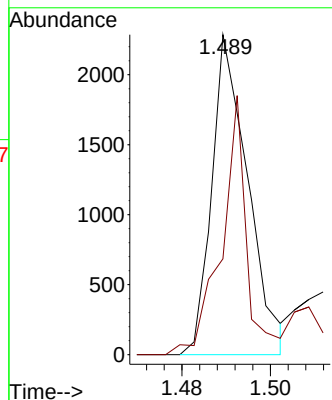
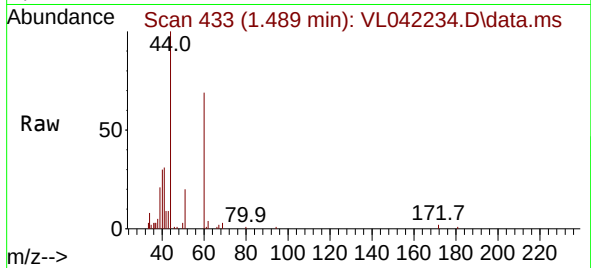




#9
Propene
Concen: 0.094 ppbv
RT: 1.489 min Scan# 41
Delta R.T. 0.006 min
Lab File: VL042234.D
Acq: 07 Apr 2025 14:18

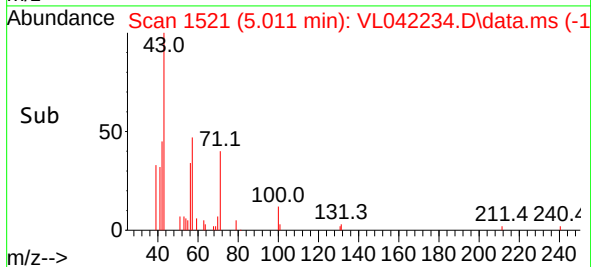
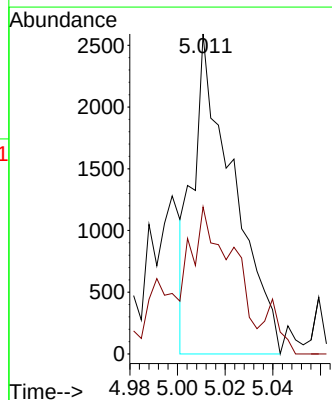
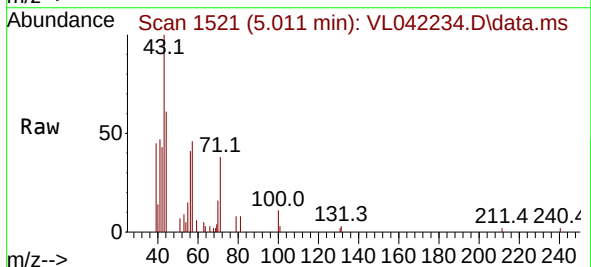
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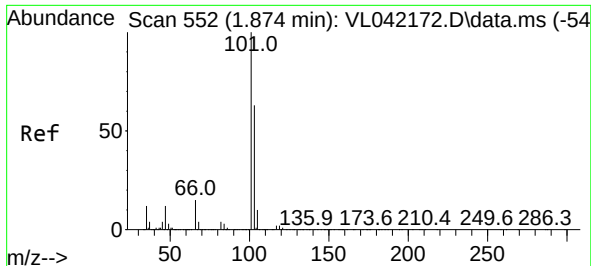
Tgt Ion: 41 Resp: 1293
Ion Ratio Lower Upper
41 100
42 79.5 55.4 83.2



#10
Heptane
Concen: 0.083 ppbv
RT: 5.011 min Scan# 1521
Delta R.T. 0.039 min
Lab File: VL042234.D
Acq: 07 Apr 2025 14:18

Tgt Ion: 43 Resp: 3028
Ion Ratio Lower Upper
43 100
57 74.8 39.4 59.2#

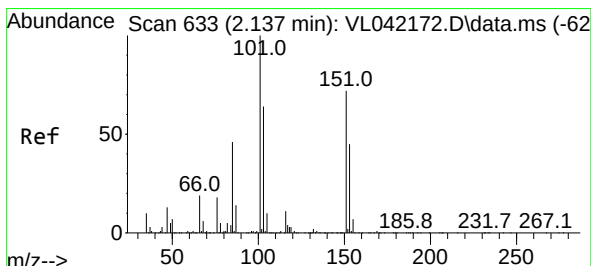
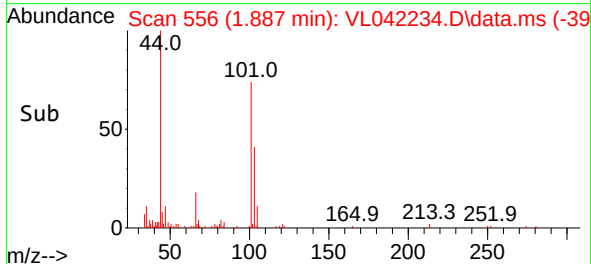
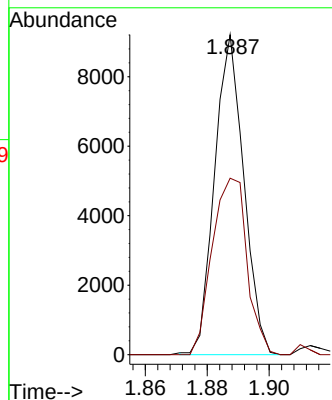
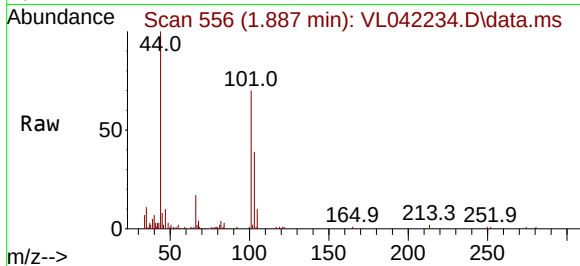




#11
 Trichlorofluoromethane
 Concen: 0.211 ppbv
 RT: 1.887 min Scan# 51
 Delta R.T. 0.013 min
 Lab File: VL042234.D
 Acq: 07 Apr 2025 14:18

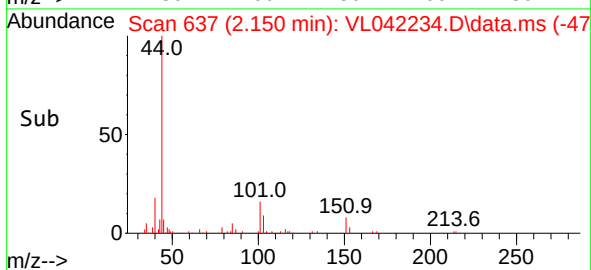
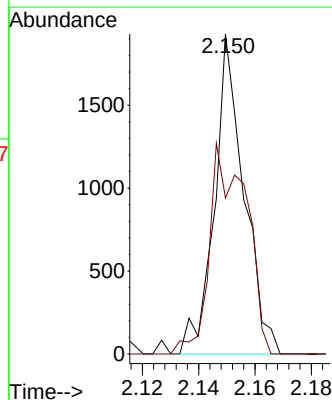
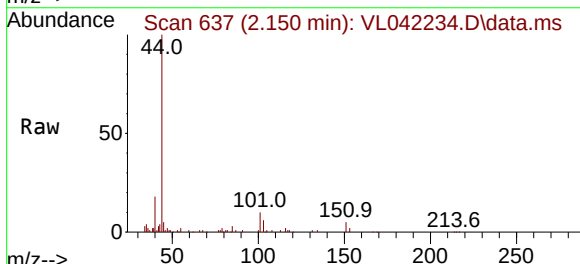
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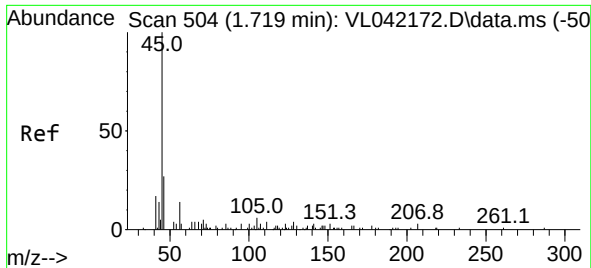
Tgt Ion:101 Resp: 6010
 Ion Ratio Lower Upper
 101 100
 103 55.2 50.2 75.2



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.060 ppbv
 RT: 2.150 min Scan# 637
 Delta R.T. 0.013 min
 Lab File: VL042234.D
 Acq: 07 Apr 2025 14:18

Tgt Ion:101 Resp: 1400
 Ion Ratio Lower Upper
 101 100
 151 82.4 57.1 85.7

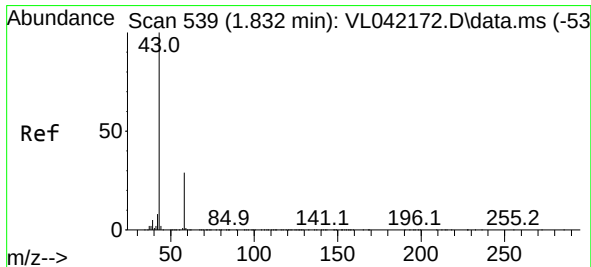
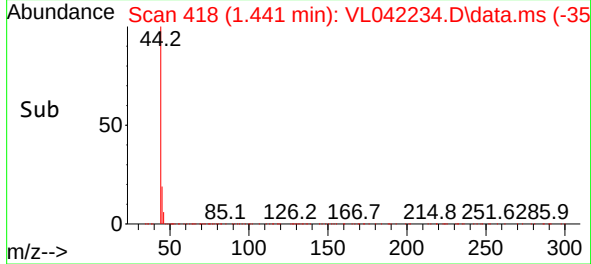
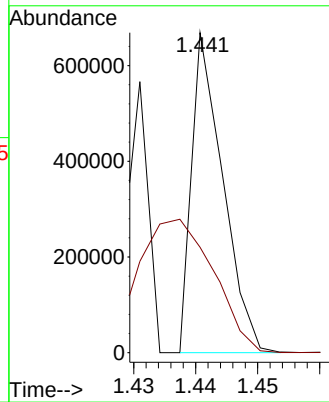
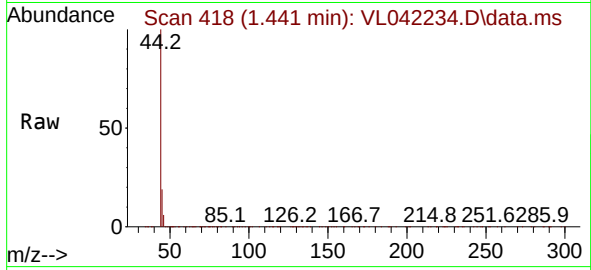




#13
Ethanol
Concen: 181.676 ppbv
RT: 1.441 min Scan# 418
Delta R.T. -0.278 min
Lab File: VL042234.D
Acq: 07 Apr 2025 14:18

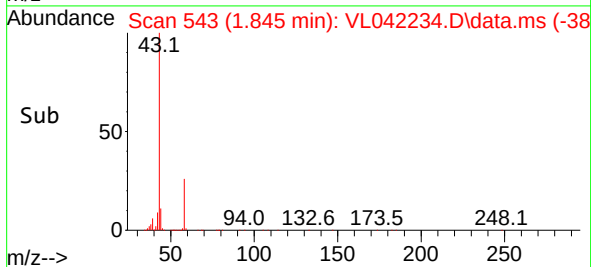
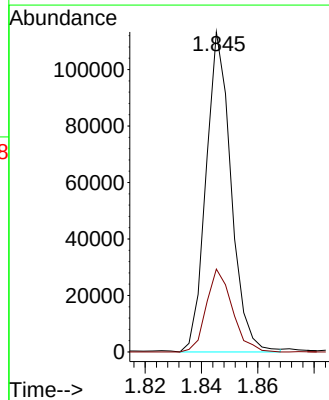
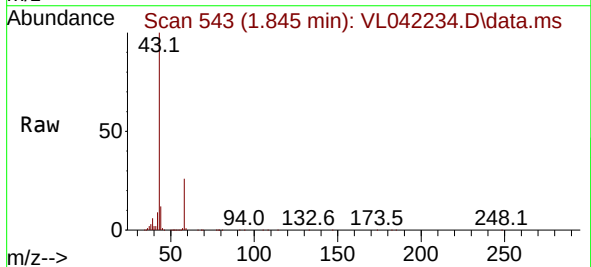
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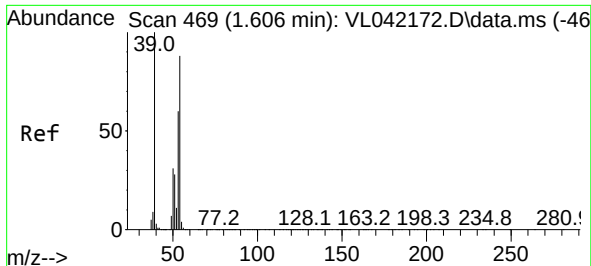
Tgt Ion: 45 Resp: 235284
Ion Ratio Lower Upper
45 100
46 99.5 20.2 80.8#



#15
Acetone
Concen: 2.528 ppbv
RT: 1.845 min Scan# 543
Delta R.T. 0.013 min
Lab File: VL042234.D
Acq: 07 Apr 2025 14:18

Tgt Ion: 43 Resp: 70052
Ion Ratio Lower Upper
43 100
58 26.8 23.2 34.8

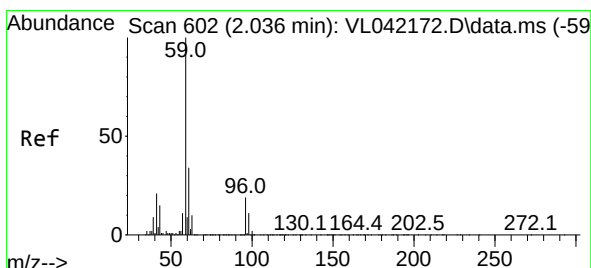
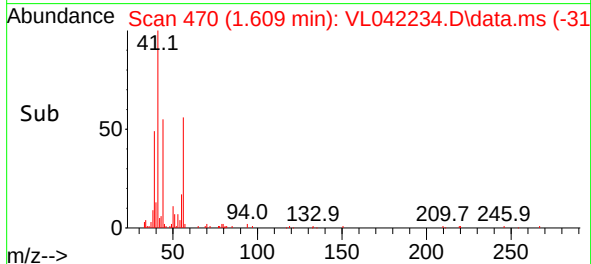
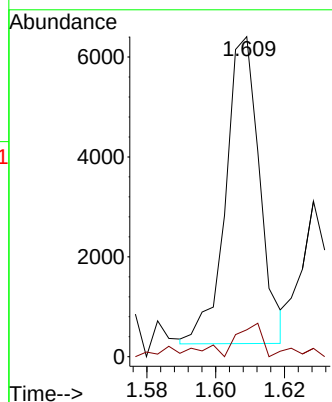
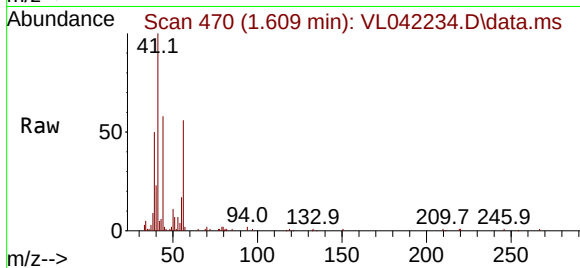




#16
1,3-Butadiene
Concen: 0.313 ppbv
RT: 1.609 min Scan# 41
Delta R.T. 0.003 min
Lab File: VL042234.D
Acq: 07 Apr 2025 14:18

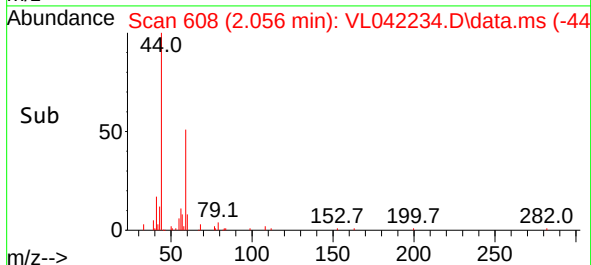
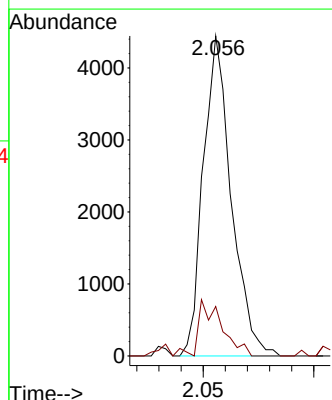
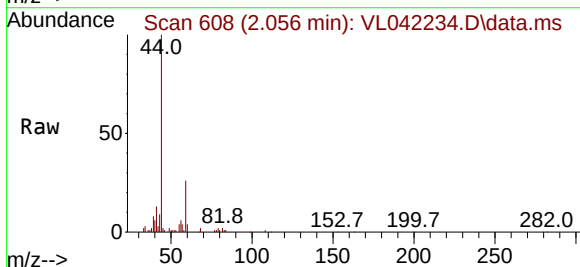
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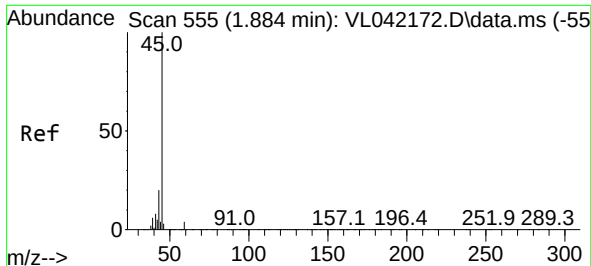
Tgt Ion: 39 Resp: 4232
Ion Ratio Lower Upper
39 100
54 16.5 60.7 91.1#



#17
tert-Butyl alcohol
Concen: 0.114 ppbv
RT: 2.056 min Scan# 608
Delta R.T. 0.019 min
Lab File: VL042234.D
Acq: 07 Apr 2025 14:18

Tgt Ion: 59 Resp: 3925
Ion Ratio Lower Upper
59 100
57 16.3 8.9 13.3#

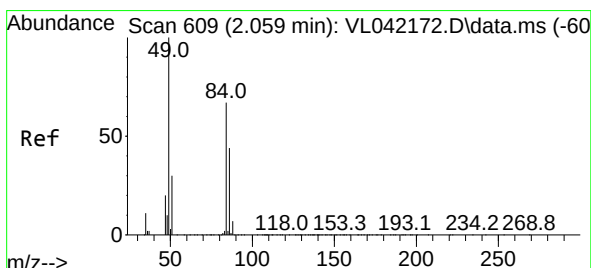
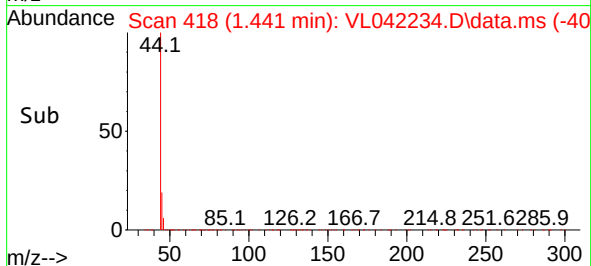
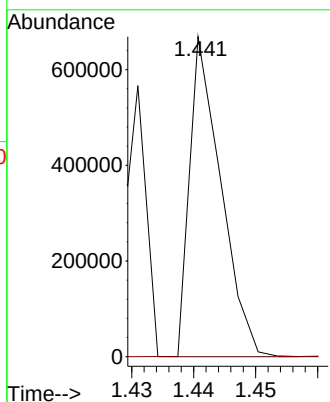
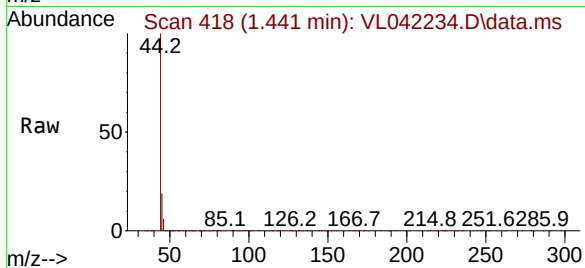




#19
Isopropyl Alcohol
Concen: 15.047 ppbv
RT: 1.441 min Scan# 41
Delta R.T. -0.443 min
Lab File: VL042234.D
Acq: 07 Apr 2025 14:18

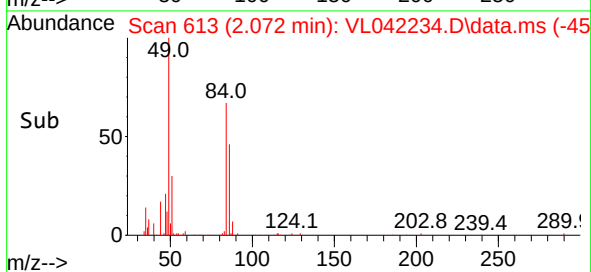
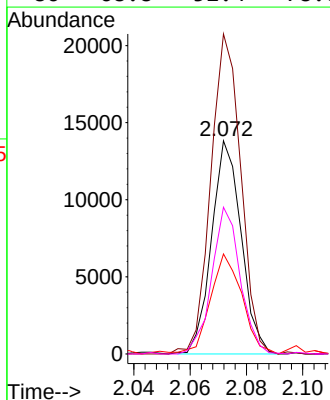
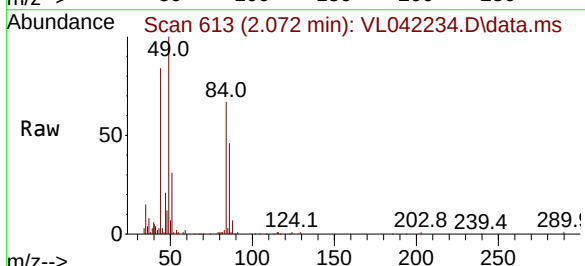
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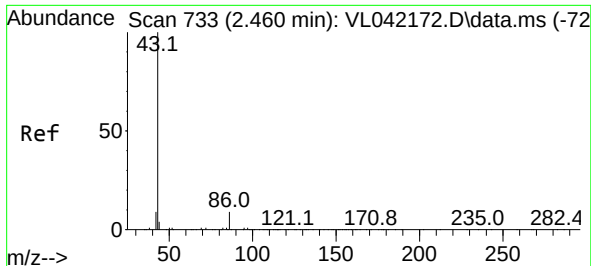
Tgt Ion: 45 Resp: 235284
Ion Ratio Lower Upper
45 100
58 0.0 36.9 55.3#



#20
Methylene Chloride
Concen: 0.976 ppbv
RT: 2.072 min Scan# 613
Delta R.T. 0.013 min
Lab File: VL042234.D
Acq: 07 Apr 2025 14:18

Tgt Ion: 84 Resp: 10076
Ion Ratio Lower Upper
84 100
49 150.1 120.2 180.4
51 46.9 37.4 56.0
86 68.8 52.4 78.6

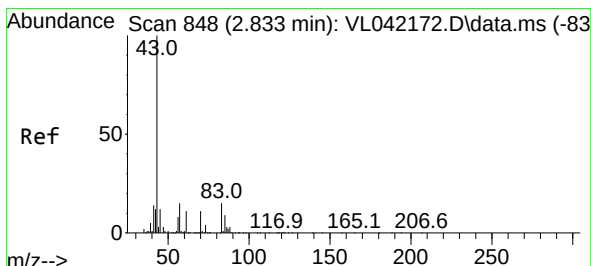
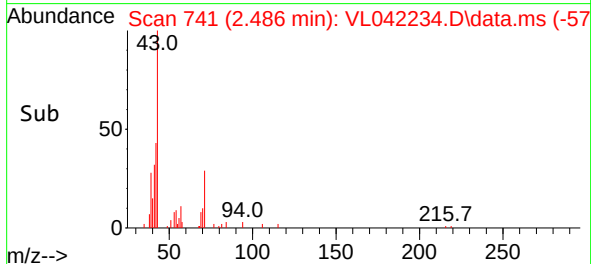
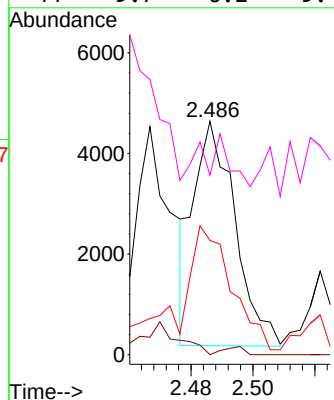
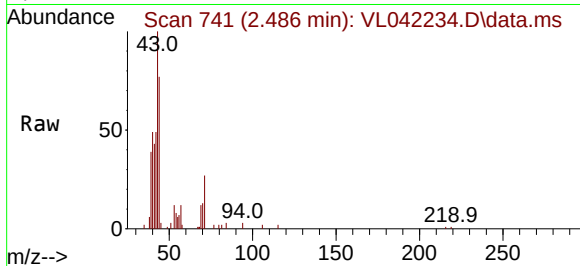




#23
 Vinyl Acetate
 Concen: 0.344 ppbv
 RT: 2.486 min Scan# 741
 Delta R.T. 0.026 min
 Lab File: VL042234.D
 Acq: 07 Apr 2025 14:18

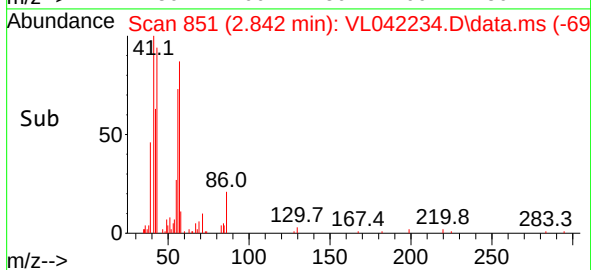
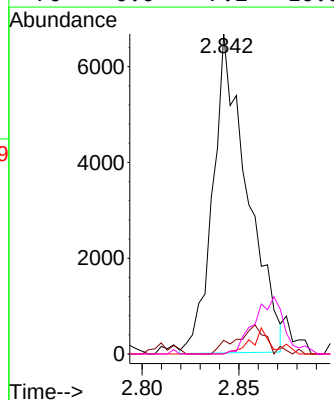
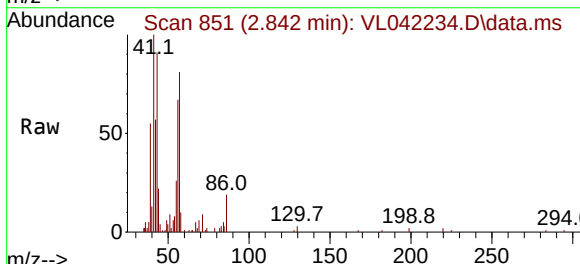
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 ClientSampleId :
 SSSG-B1-2-04012025

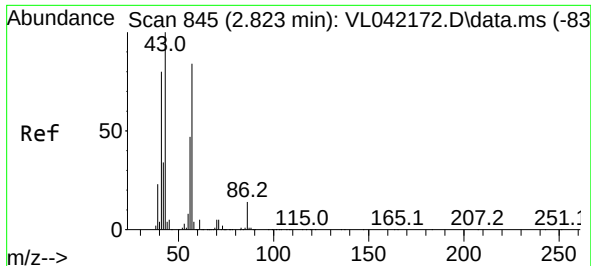
Tgt Ion: 43	Resp: 4130
Ion Ratio	Lower Upper
43 100	
86 0.0	5.5 8.3#
42 49.1	8.6 13.0#
44 9.7	6.2 9.4#



#25
 Ethyl Acetate
 Concen: 0.115 ppbv
 RT: 2.842 min Scan# 851
 Delta R.T. 0.010 min
 Lab File: VL042234.D
 Acq: 07 Apr 2025 14:18

Tgt Ion: 43	Resp: 8241
Ion Ratio	Lower Upper
43 100	
45 0.0	8.2 12.2#
61 0.0	7.3 10.9#
70 0.0	7.2 10.8#

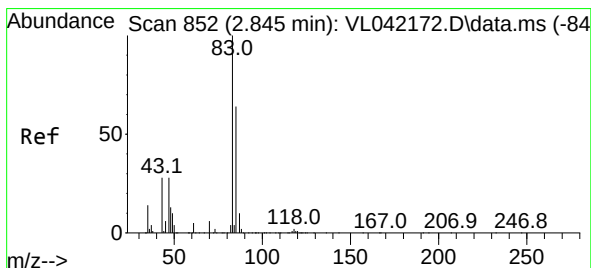
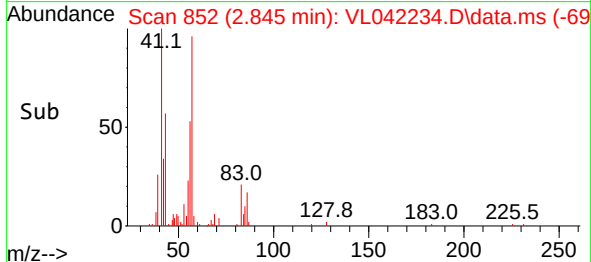
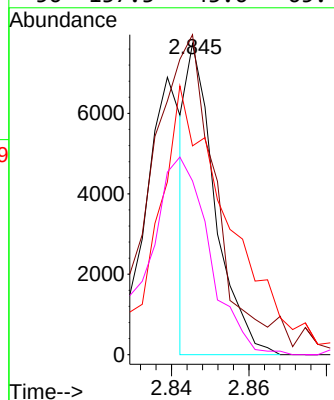
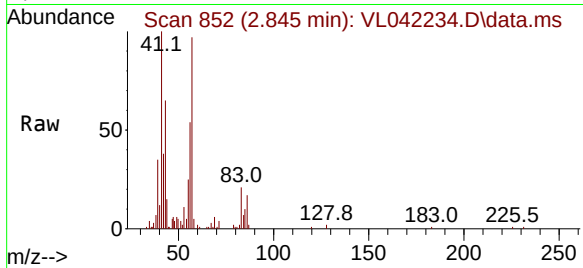




#26
Hexane
Concen: 0.140 ppbv
RT: 2.845 min Scan# 845
Delta R.T. 0.023 min
Lab File: VL042234.D
Acq: 07 Apr 2025 14:18

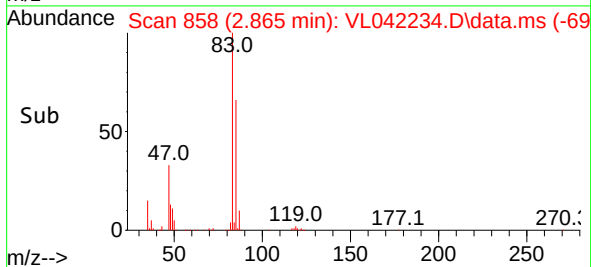
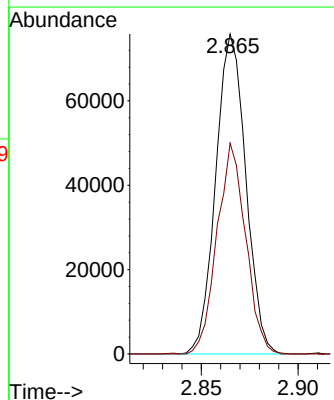
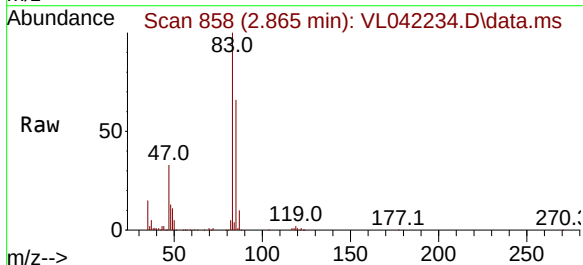
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B1-2-04012025

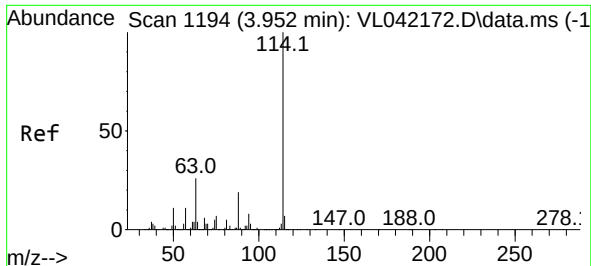
Tgt Ion:	57	Resp:	3892
Ion	Ratio	Lower	Upper
57	100		
41	249.5	76.6	114.8#
43	235.3	207.8	311.8
56	137.3	43.6	65.4#



#29
Chloroform
Concen: 2.015 ppbv
RT: 2.865 min Scan# 858
Delta R.T. 0.019 min
Lab File: VL042234.D
Acq: 07 Apr 2025 14:18

Tgt Ion:	83	Resp:	81943
Ion	Ratio	Lower	Upper
83	100		
85	65.8	51.4	77.2





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.981 min Scan# 1194

Delta R.T. 0.029 min

Lab File: VL042234.D

Acq: 07 Apr 2025 14:18

Instrument :

MSVOA_L

ClientSampleId :

SSSG-B1-2-04012025

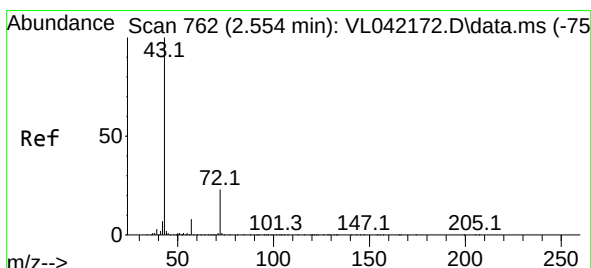
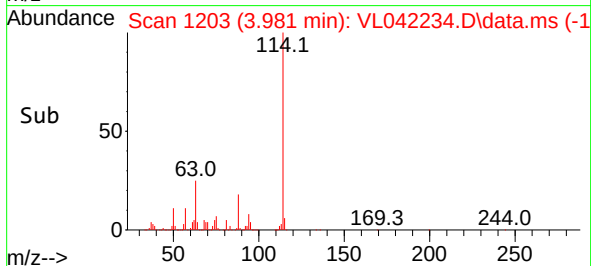
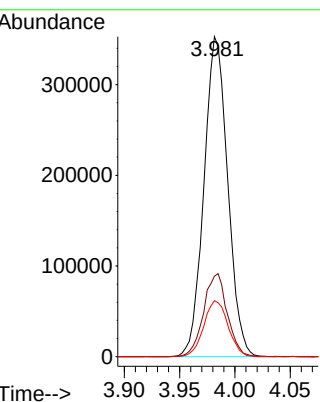
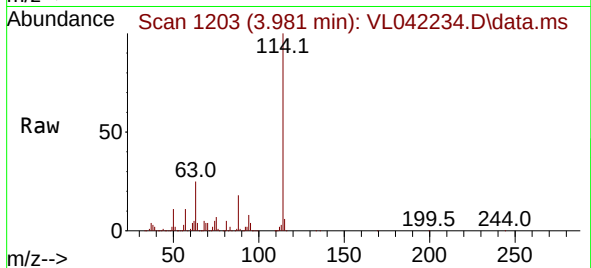
Tgt Ion:114 Resp: 527291

Ion Ratio Lower Upper

114 100

63 25.9 20.7 31.1

88 17.9 15.0 22.4



#34

2-Butanone

Concen: 0.204 ppbv

RT: 2.580 min Scan# 770

Delta R.T. 0.026 min

Lab File: VL042234.D

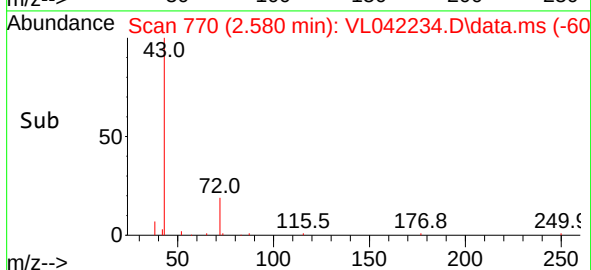
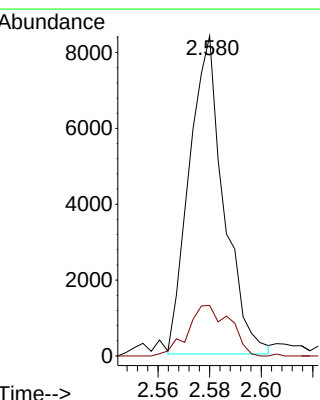
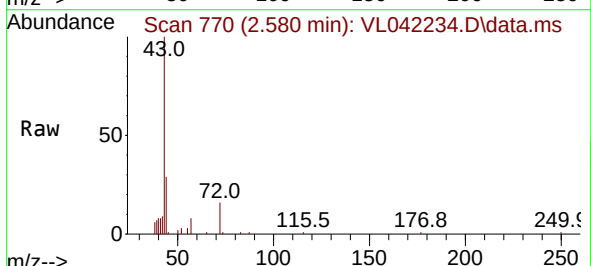
Acq: 07 Apr 2025 14:18

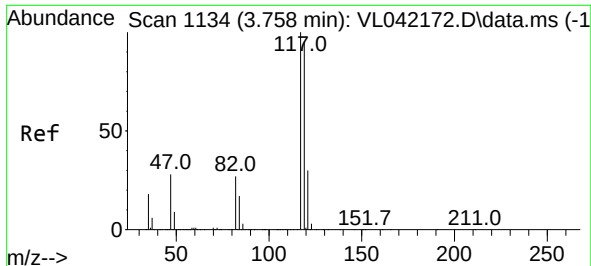
Tgt Ion: 43 Resp: 7789

Ion Ratio Lower Upper

43 100

72 19.6 18.2 27.2

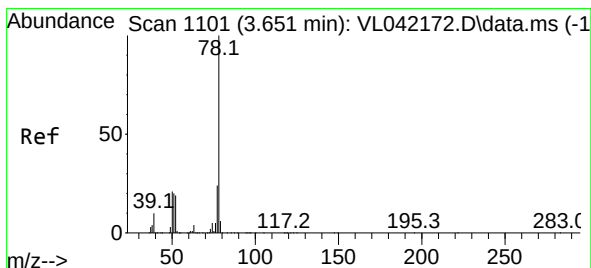
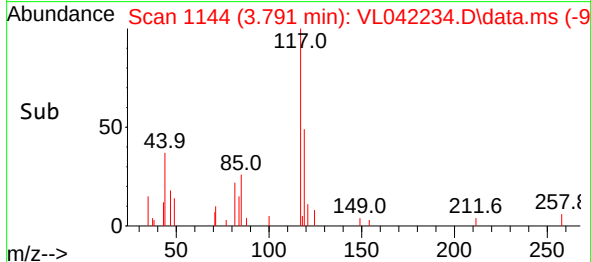
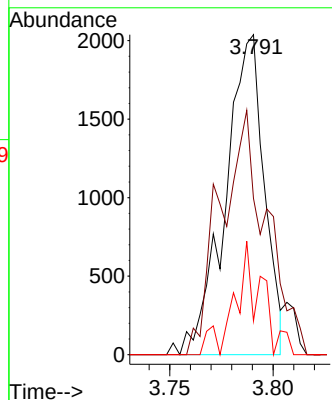
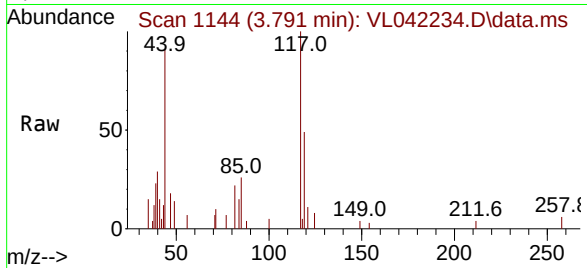




#35
Carbon Tetrachloride
Concen: 0.065 ppbv
RT: 3.791 min Scan# 1114
Delta R.T. 0.032 min
Lab File: VL042234.D
Acq: 07 Apr 2025 14:18

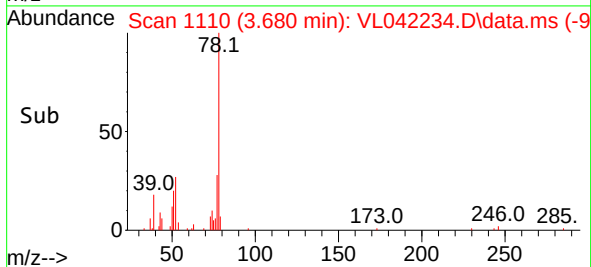
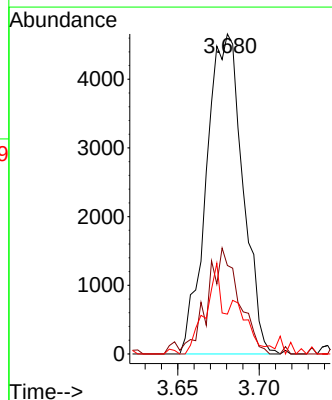
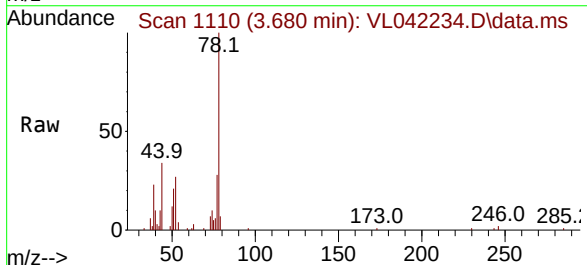
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B1-2-04012025

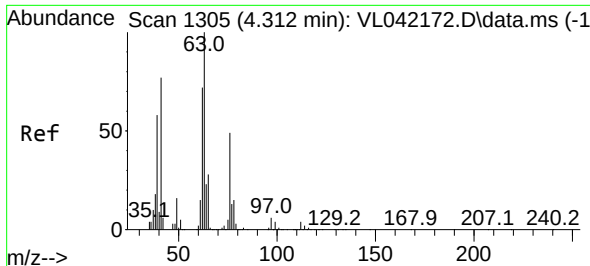
Tgt Ion:117 Resp: 2669
Ion Ratio Lower Upper
117 100
119 48.9 76.2 114.2#
121 10.5 24.2 36.4#



#36
Benzene
Concen: 0.138 ppbv
RT: 3.680 min Scan# 1110
Delta R.T. 0.029 min
Lab File: VL042234.D
Acq: 07 Apr 2025 14:18

Tgt Ion: 78 Resp: 7218
Ion Ratio Lower Upper
78 100
77 27.6 19.1 28.7
50 12.5 16.6 24.8#





#39

1,2-Dichloropropane

Concen: 7.145 ppbv

RT: 3.985 min Scan# 11

Delta R.T. -0.327 min

Lab File: VL042234.D

Acq: 07 Apr 2025 14:18

Instrument :

MSVOA_L

ClientSampleId :

SSSG-B1-2-04012025

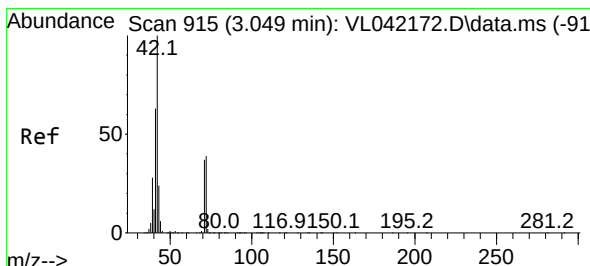
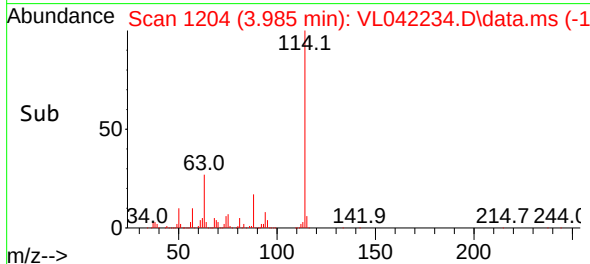
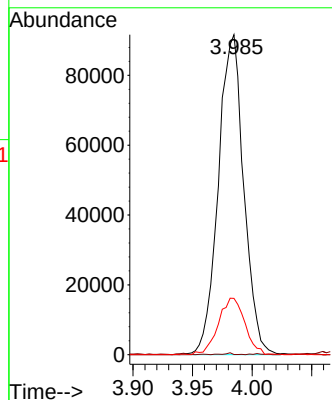
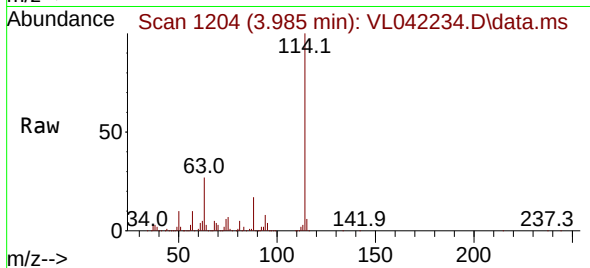
Tgt Ion: 63 Resp: 136029

Ion Ratio Lower Upper

63 100

41 0.1 61.7 92.5#

62 17.6 57.6 86.4#



#41

Tetrahydrofuran

Concen: 0.031 ppbv

RT: 3.095 min Scan# 929

Delta R.T. 0.045 min

Lab File: VL042234.D

Acq: 07 Apr 2025 14:18

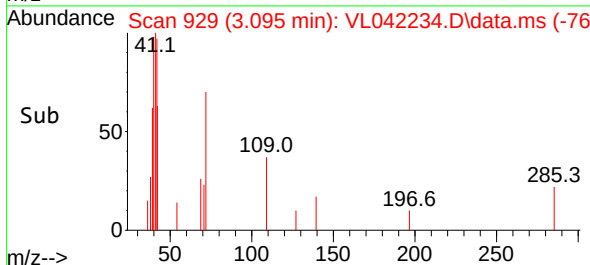
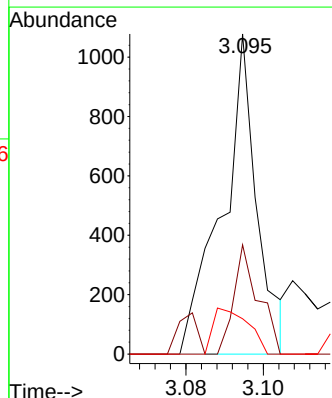
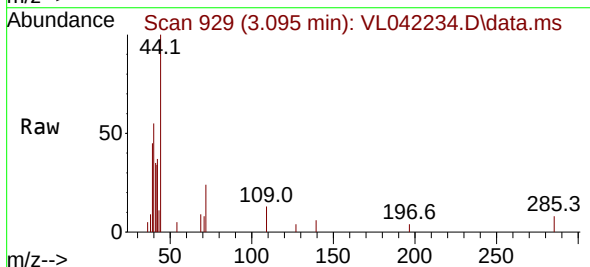
Tgt Ion: 42 Resp: 675

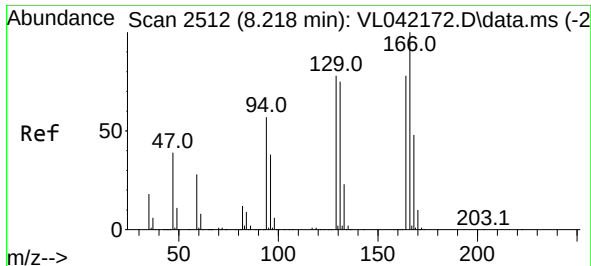
Ion Ratio Lower Upper

42 100

72 31.4 31.4 47.0

71 14.4 30.2 45.4#

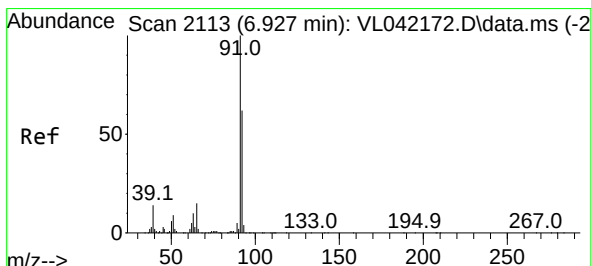
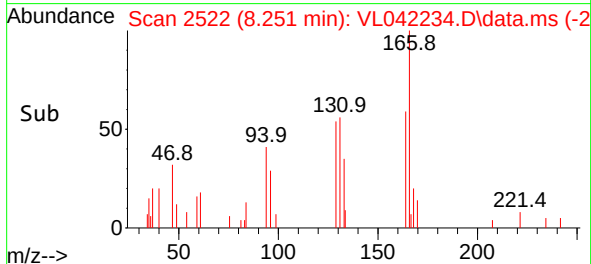
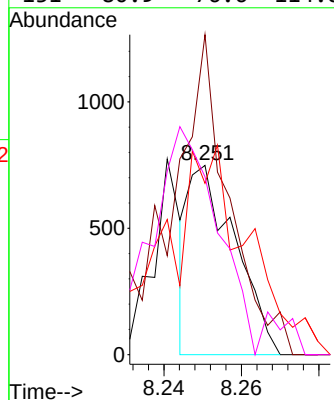
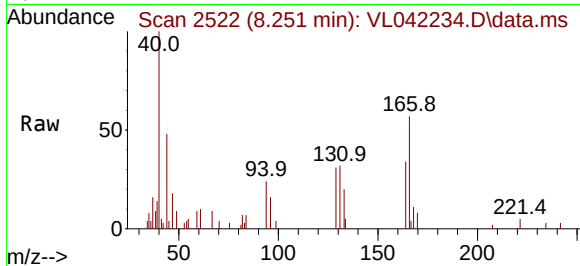




#52
Tetrachloroethene
Concen: 0.030 ppbv
RT: 8.251 min Scan# 2125
Delta R.T. 0.032 min
Lab File: VL042234.D
Acq: 07 Apr 2025 14:18

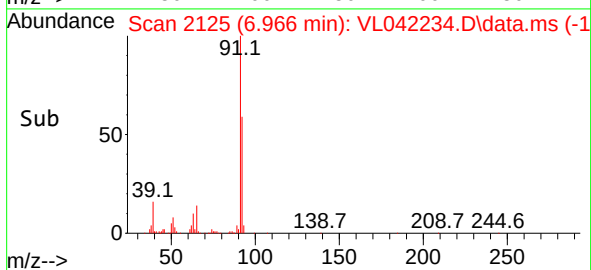
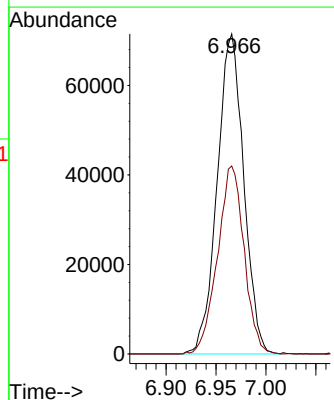
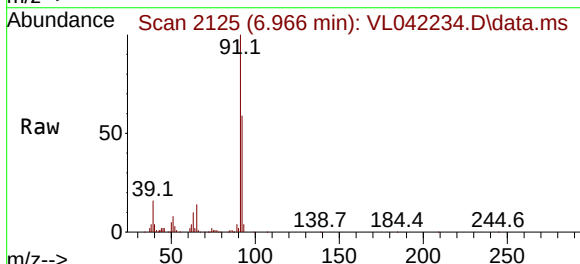
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B1-2-04012025

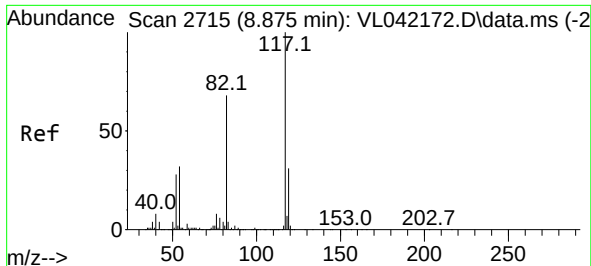
Tgt Ion:164 Resp: 622
Ion Ratio Lower Upper
164 100
166 158.5 102.5 153.7#
129 68.8 79.8 119.8#
131 80.9 76.6 114.8



#53
Toluene
Concen: 2.132 ppbv
RT: 6.966 min Scan# 2125
Delta R.T. 0.039 min
Lab File: VL042234.D
Acq: 07 Apr 2025 14:18

Tgt Ion: 91 Resp: 132108
Ion Ratio Lower Upper
91 100
92 58.9 48.4 72.6

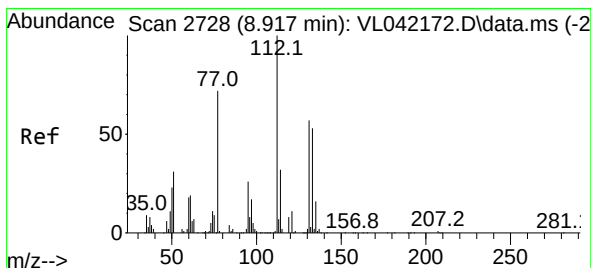
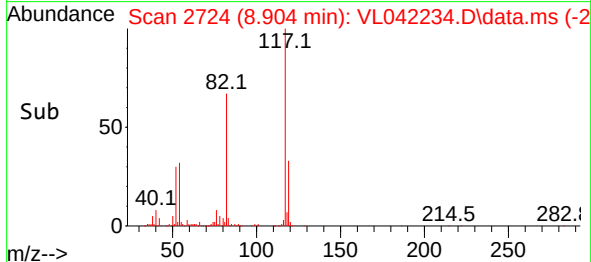
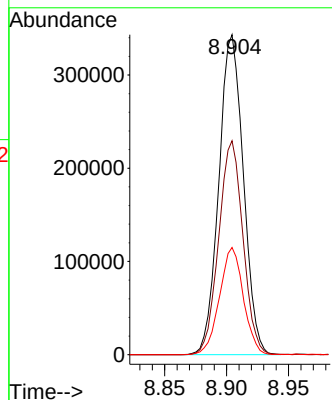
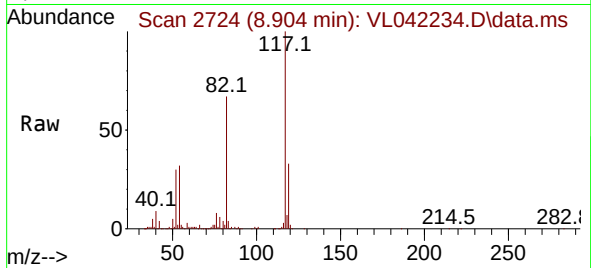




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.904 min Scan# 2715
Delta R.T. 0.029 min
Lab File: VL042234.D
Acq: 07 Apr 2025 14:18

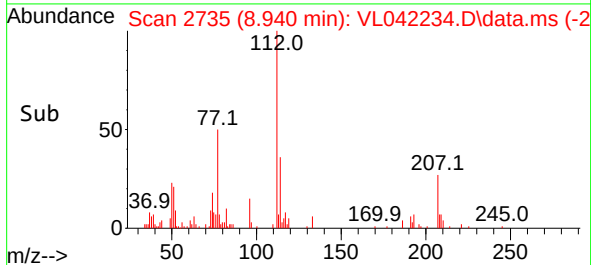
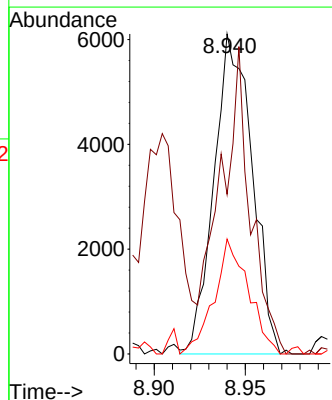
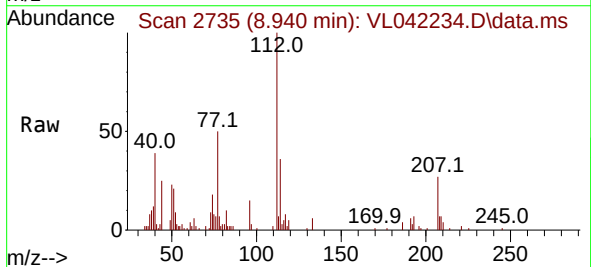
Instrument :
MSVOA_1
ClientSampleId :
SSSG-B1-2-04012025

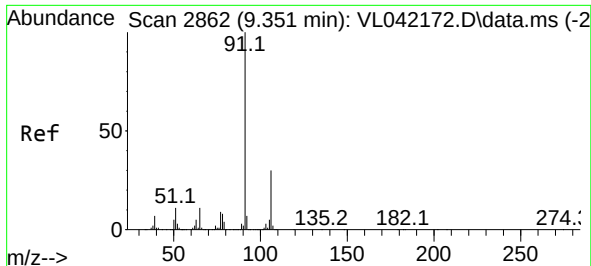
Tgt Ion:117 Resp: 473671
Ion Ratio Lower Upper
117 100
82 66.2 55.8 83.6
119 32.8 25.5 38.3



#57
Chlorobenzene
Concen: 0.198 ppbv
RT: 8.940 min Scan# 2735
Delta R.T. 0.023 min
Lab File: VL042234.D
Acq: 07 Apr 2025 14:18

Tgt Ion:112 Resp: 8901
Ion Ratio Lower Upper
112 100
77 46.2 58.2 87.2#
114 35.9 29.1 35.5#

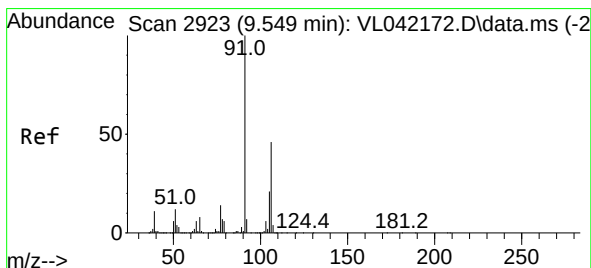
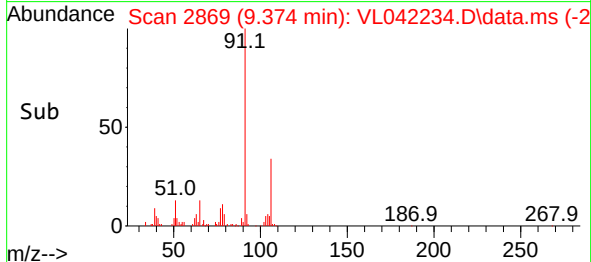
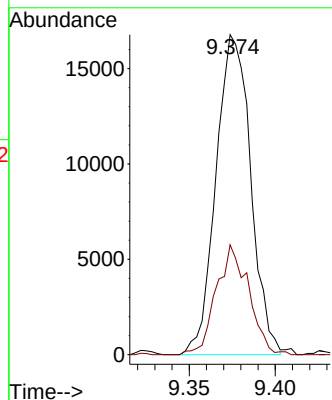
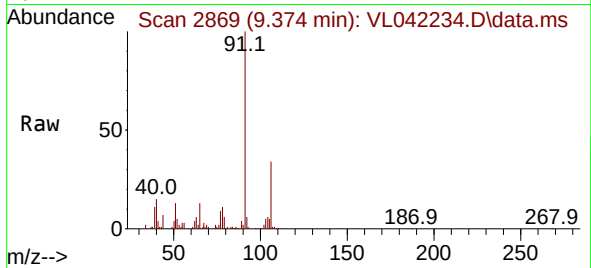




#58
Ethyl Benzene
Concen: 0.279 ppbv
RT: 9.374 min Scan# 2869
Delta R.T. 0.023 min
Lab File: VL042234.D
Acq: 07 Apr 2025 14:18

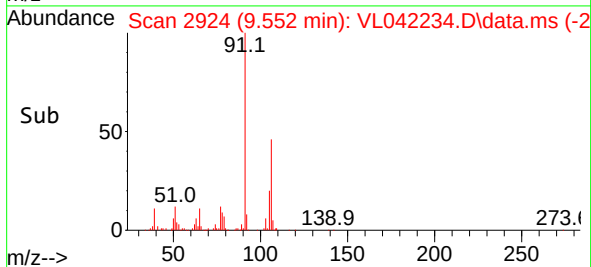
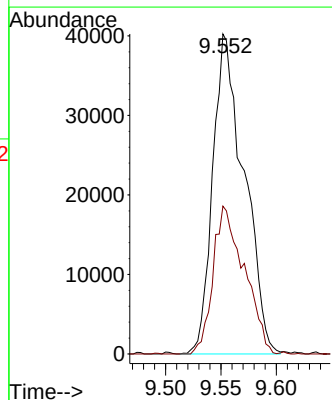
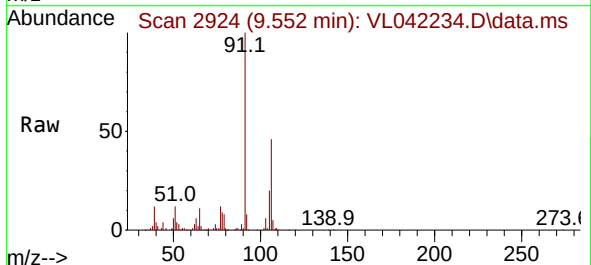
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B1-2-04012025

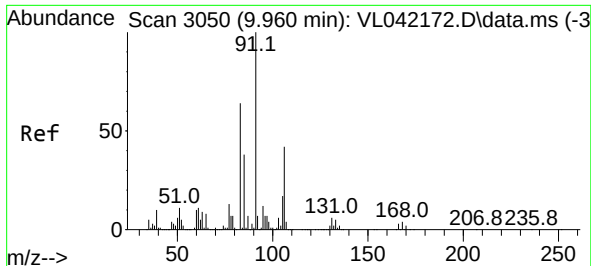
Tgt Ion: 91 Resp: 23493
Ion Ratio Lower Upper
91 100
106 34.3 24.2 36.2



#59
m/p-Xylene
Concen: 1.177 ppbv
RT: 9.552 min Scan# 2924
Delta R.T. 0.003 min
Lab File: VL042234.D
Acq: 07 Apr 2025 14:18

Tgt Ion: 91 Resp: 79086
Ion Ratio Lower Upper
91 100
106 46.2 36.4 54.6

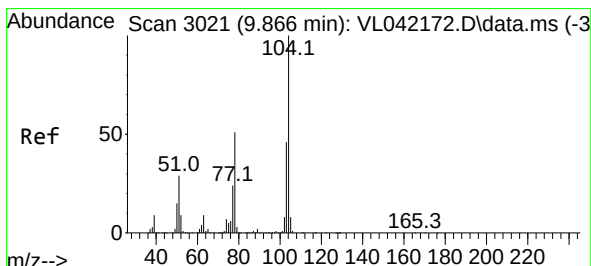
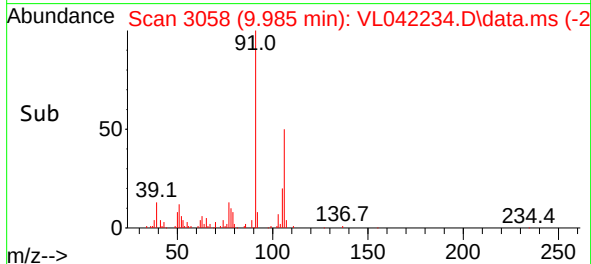
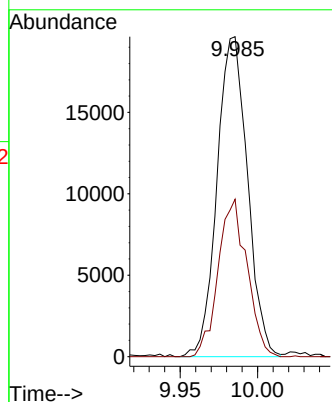
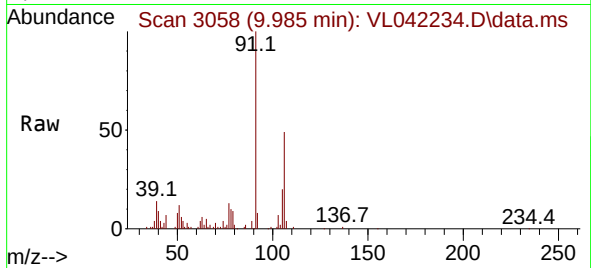




#60
o-Xylene
Concen: 0.398 ppbv
RT: 9.985 min Scan# 3050
Delta R.T. 0.026 min
Lab File: VL042234.D
Acq: 07 Apr 2025 14:18

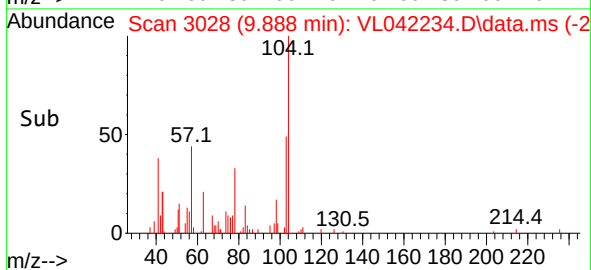
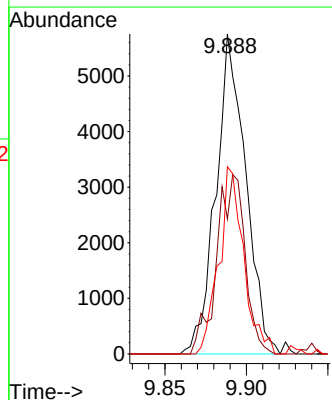
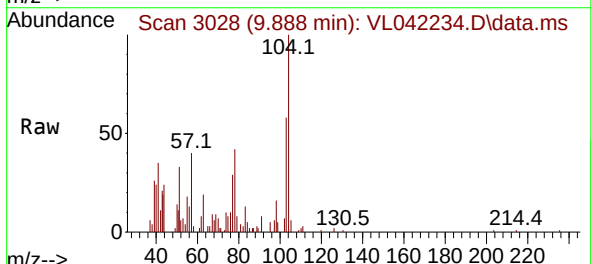
Instrument :
MSVOA_1
ClientSampleId :
SSSG-B1-2-04012025

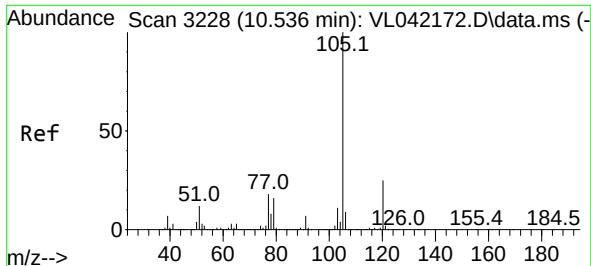
Tgt Ion: 91 Resp: 26822
Ion Ratio Lower Upper
91 100
106 46.6 20.8 62.5



#61
Styrene
Concen: 0.219 ppbv
RT: 9.888 min Scan# 3028
Delta R.T. 0.023 min
Lab File: VL042234.D
Acq: 07 Apr 2025 14:18

Tgt Ion: 104 Resp: 7302
Ion Ratio Lower Upper
104 100
78 53.5 41.8 62.6
103 49.3 37.0 55.4

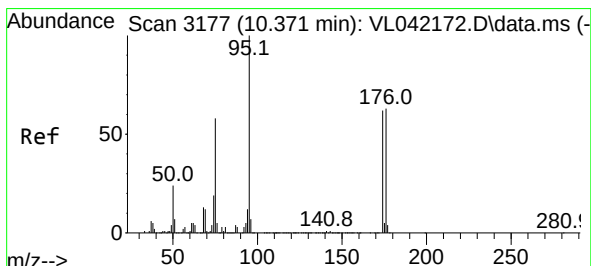
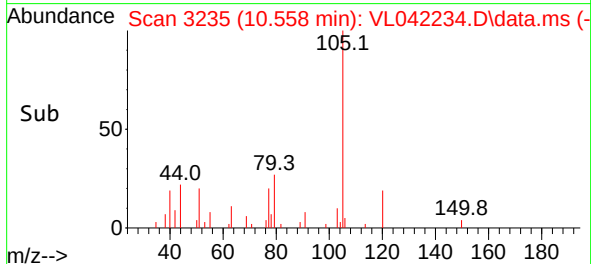
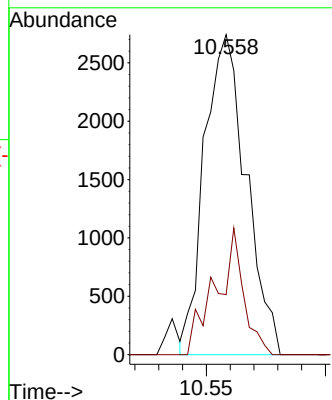
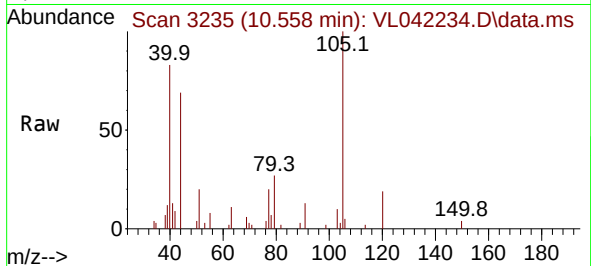




#62
Isopropylbenzene
Concen: 0.033 ppbv
RT: 10.558 min Scan# 3184
Delta R.T. 0.023 min
Lab File: VL042234.D
Acq: 07 Apr 2025 14:18

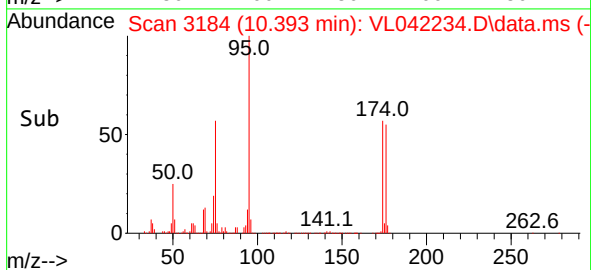
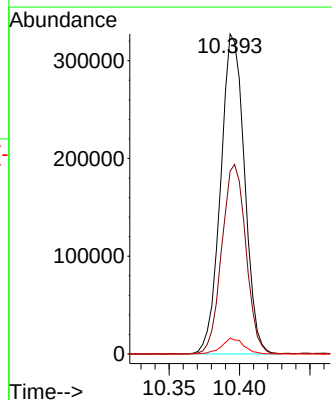
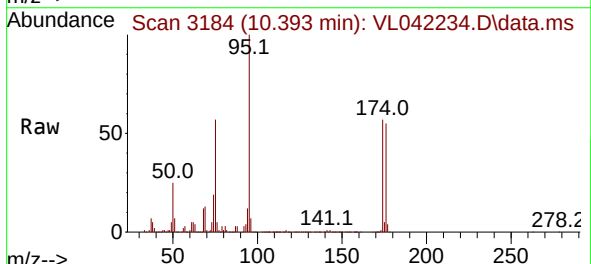
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B1-2-04012025

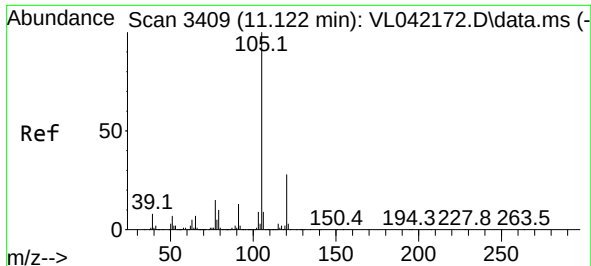
Tgt Ion:105 Resp: 3342
Ion Ratio Lower Upper
105 100
120 26.4 19.9 29.9



#68
1-Bromo-4-Fluorobenzene
Concen: 9.917 ppbv
RT: 10.393 min Scan# 3184
Delta R.T. 0.023 min
Lab File: VL042234.D
Acq: 07 Apr 2025 14:18

Tgt Ion: 95 Resp: 385746
Ion Ratio Lower Upper
95 100
174 60.0 50.6 76.0
175 4.6 3.8 5.6

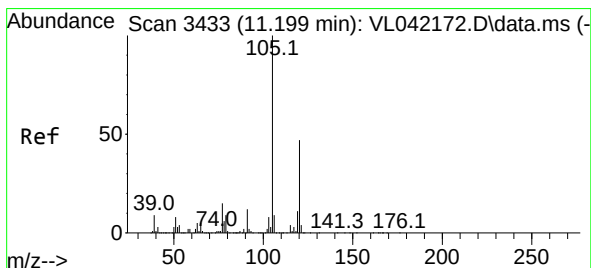
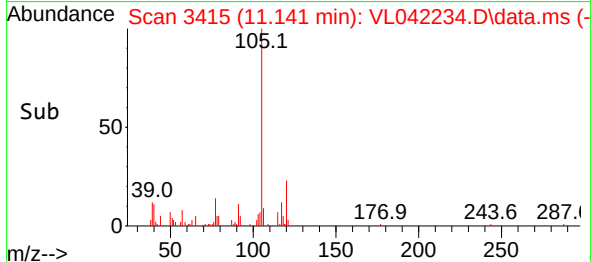
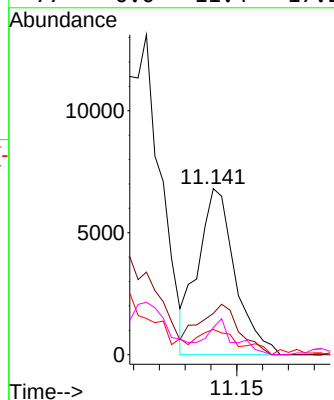
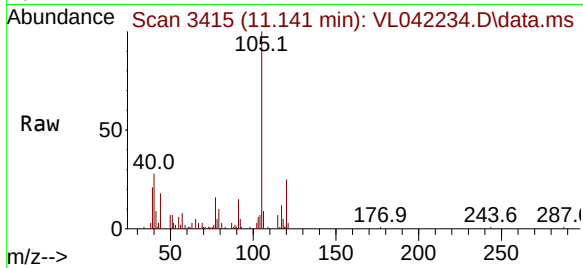




#72
4-Ethyltoluene
Concen: 0.081 ppbv
RT: 11.141 min Scan# 3409
Delta R.T. 0.019 min
Lab File: VL042234.D
Acq: 07 Apr 2025 14:18

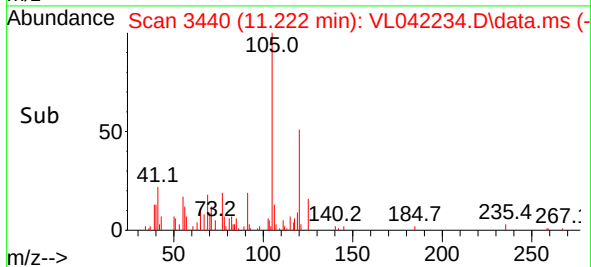
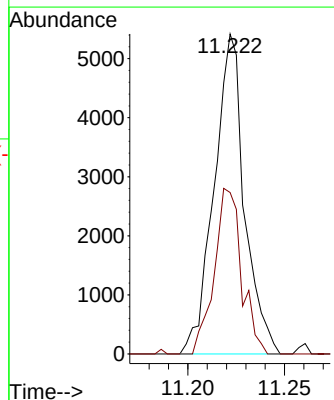
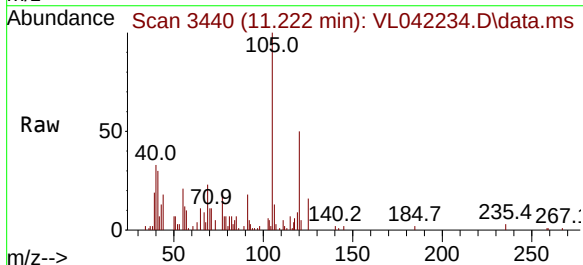
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B1-2-04012025

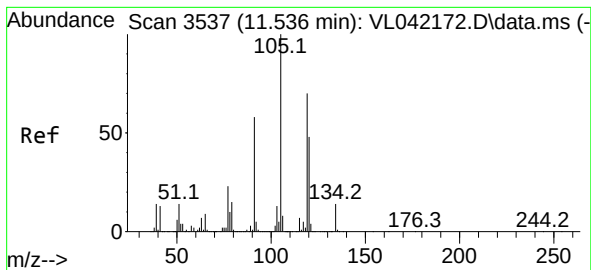
Tgt Ion:	105	Resp:	6813
Ion Ratio	Lower	Upper	
105	100		
120	0.0	23.4	35.0#
91	0.0	10.3	15.5#
77	0.0	11.4	17.2#



#73
1,3,5-Trimethylbenzene
Concen: 0.081 ppbv
RT: 11.222 min Scan# 3440
Delta R.T. 0.023 min
Lab File: VL042234.D
Acq: 07 Apr 2025 14:18

Tgt Ion:	105	Resp:	5904
Ion Ratio	Lower	Upper	
105	100		
120	50.4	37.4	56.0





#74

1,2,4-Trimethylbenzene

Concen: 0.233 ppbv

RT: 11.555 min Scan# 3543

Delta R.T. 0.019 min

Lab File: VL042234.D

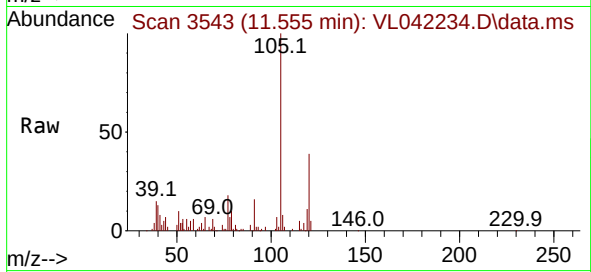
Acq: 07 Apr 2025 14:18

Instrument :

MSVOA_L

ClientSampleId :

SSSG-B1-2-04012025



Tgt Ion:105 Resp: 19699

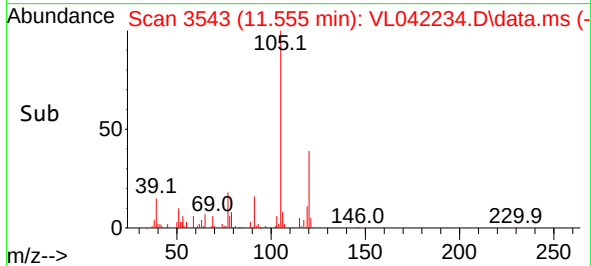
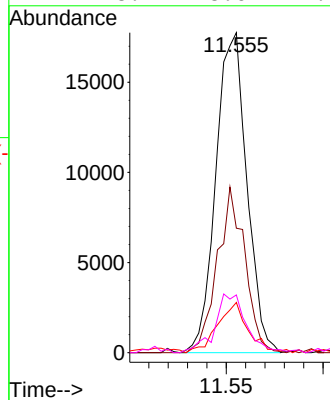
Ion Ratio Lower Upper

105 100

120 38.9 38.6 58.0

91 15.2 46.2 69.2#

77 18.1 18.6 27.8#



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040725\
 Data File : VL042235.D
 Acq On : 07 Apr 2025 14:51
 Operator : SY/MD
 Sample : Q1725-02
 Misc : 400mL/MSVOA_L
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SSSG-B10-4-04012025

Quant Time: Apr 08 01:32:36 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri Mar 28 02:00:52 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.803	49	200550	10.000	ppbv	0.02
33) 1,4-Difluorobenzene	3.981	114	538469	10.000	ppbv	0.03
55) Chlorobenzene-d5	8.901	117	487966	10.000	ppbv	0.03

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.393	95	392922	9.805	ppbv	0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.100%

Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.502	85	11812	0.399	ppbv	99
3) Chlorodifluoromethane	1.479	51	5046	0.167	ppbv #	85
4) Chloromethane	1.538	50	1607	0.133	ppbv	97
7) Chloroethane	1.709	64	274	0.056	ppbv #	43
9) Propene	1.894	41	41358	2.983	ppbv	89
10) Heptane	5.011	43	1564	0.042	ppbv #	28
11) Trichlorofluoromethane	1.887	101	6560	0.228	ppbv	97
12) 1,1,2-Trichlorotrifluo...	2.153	101	2246	0.095	ppbv	87
13) Ethanol	1.729	45	165486	126.257	ppbv	81
15) Acetone	1.842	43	878596	31.325	ppbv	97
16) 1,3-Butadiene	1.606	39	31473	2.298	ppbv #	20
17) tert-Butyl alcohol	1.894	59	15656	0.448	ppbv	95
18) 1,1-Dichloroethene	2.046	96	17208	1.554	ppbv	98
19) Isopropyl Alcohol	1.894	45	429215	27.122	ppbv #	85
20) Methylene Chloride	2.072	84	7004	0.670	ppbv #	81
21) Allyl Chloride	2.052	41	6028	0.305	ppbv #	71
22) trans-1,2-Dichloroethene	2.046	96	17208	1.345	ppbv #	78
23) Vinyl Acetate	2.470	43	14231	1.172	ppbv #	85
24) 1,1-Dichloroethane	2.421	63	2995	0.126	ppbv #	91
25) Ethyl Acetate	2.862	43	2278	0.031	ppbv #	1
26) Hexane	2.842	57	12578	0.447	ppbv #	1
29) Chloroform	2.865	83	5091112	123.718	ppbv #	64
31) cis-1,2-Dichloroethene	2.735	61	886	0.031	ppbv #	54
32) 1,1,1-Trichloroethane	3.389	97	5002	0.106	ppbv	96
34) 2-Butanone	2.573	43	26940	0.690	ppbv	99
35) Carbon Tetrachloride	3.787	117	149549	3.555	ppbv	97
36) Benzene	3.677	78	9849	0.184	ppbv	97
38) Trichloroethene	4.577	130	20401	0.916	ppbv #	83
39) 1,2-Dichloropropane	3.981	63	139255	7.163	ppbv #	23
41) Tetrahydrofuran	3.091	42	1861	0.083	ppbv #	61
42) Bromodichloromethane	4.509	83	7639	0.181	ppbv	89
51) 2-Hexanone	7.480	43	2701	0.053	ppbv #	28
52) Tetrachloroethene	8.247	164	66227	3.128	ppbv	96
53) Toluene	6.962	91	88021	1.391	ppbv	99
58) Ethyl Benzene	9.377	91	22956	0.265	ppbv #	87
59) m/p-Xylene	9.552	91	78245	1.131	ppbv	100
60) o-Xylene	9.982	91	26678	0.385	ppbv	97
61) Styrene	9.888	104	11796	0.344	ppbv	95
62) Isopropylbenzene	10.558	105	3298	0.032	ppbv #	89
64) n-propylbenzene	11.002	120	1995	0.075	ppbv	90
65) tert-Butylbenzene	11.552	119	3723	0.039	ppbv #	41
66) Benzyl Chloride	11.633	91	441	0.043	ppbv #	63
69) p-Isopropyltoluene	11.940	119	3553	0.031	ppbv #	92

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040725\
Data File : VL042235.D
Acq On : 07 Apr 2025 14:51
Operator : SY/MD
Sample : Q1725-02
Misc : 400mL/MSVOA_L
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
SSSG-B10-4-04012025

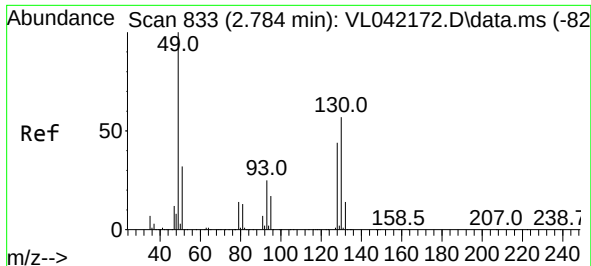
Quant Time: Apr 08 01:32:36 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Fri Mar 28 02:00:52 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
72) 4-Ethyltoluene	11.141	105	10060	0.116	ppbv #	68
73) 1,3,5-Trimethylbenzene	11.215	105	7009	0.093	ppbv	87
74) 1,2,4-Trimethylbenzene	11.552	105	33126	0.381	ppbv #	66

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

Quant Time: Apr 08 01:32:36 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Mar 28 02:00:52 2025
Response via : Initial Calibration

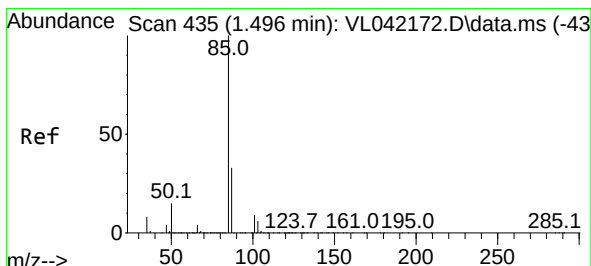
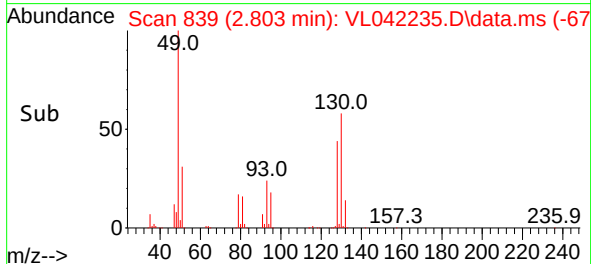
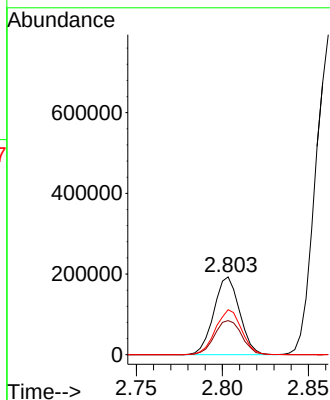
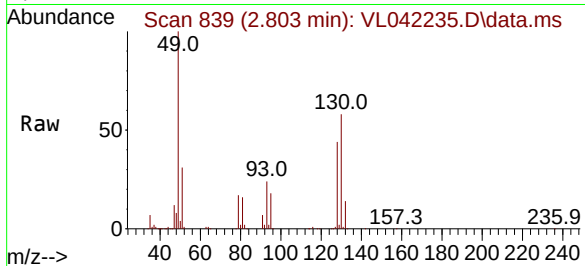




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.803 min Scan# 81
Delta R.T. 0.019 min
Lab File: VL042235.D
Acq: 07 Apr 2025 14:51

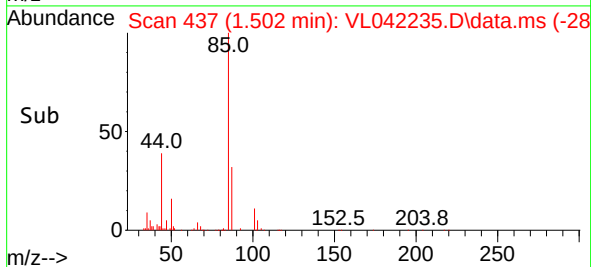
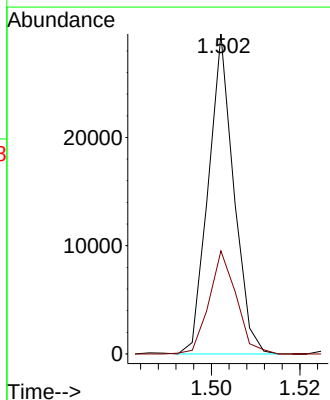
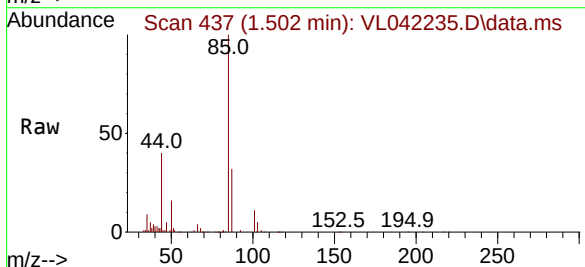
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B10-4-04012025

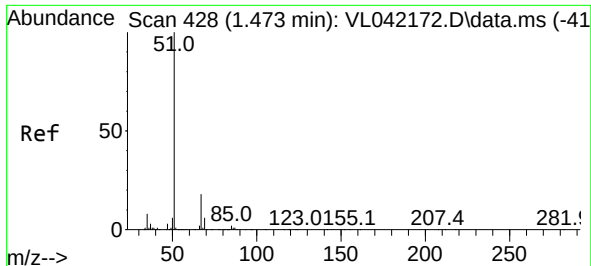
Tgt Ion: 49 Resp: 200550
Ion Ratio Lower Upper
49 100
128 46.5 22.9 68.5
130 58.5 28.8 86.4



#2
Dichlorodifluoromethane
Concen: 0.399 ppbv
RT: 1.502 min Scan# 437
Delta R.T. 0.006 min
Lab File: VL042235.D
Acq: 07 Apr 2025 14:51

Tgt Ion: 85 Resp: 11812
Ion Ratio Lower Upper
85 100
87 32.2 26.1 39.1

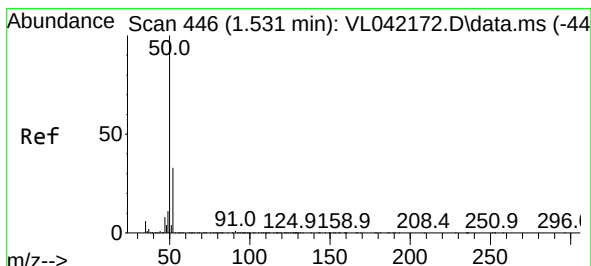
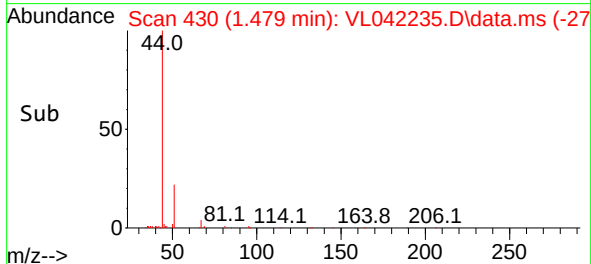
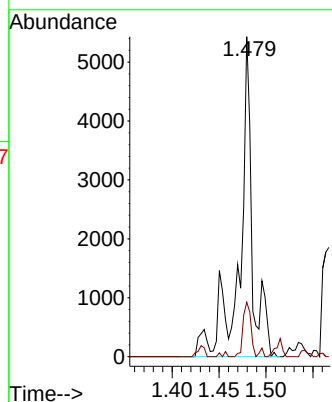
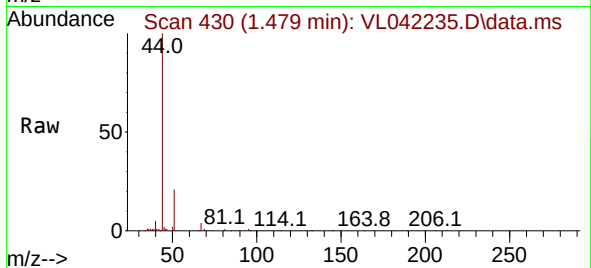




#3
Chlorodifluoromethane
Concen: 0.167 ppbv
RT: 1.479 min Scan# 41
Delta R.T. 0.006 min
Lab File: VL042235.D
Acq: 07 Apr 2025 14:51

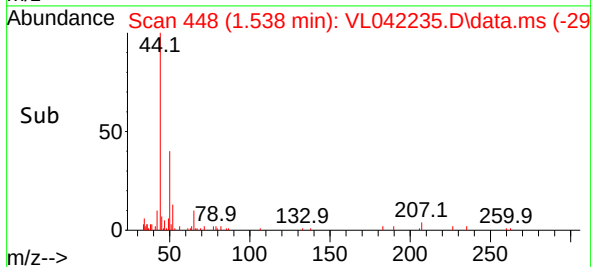
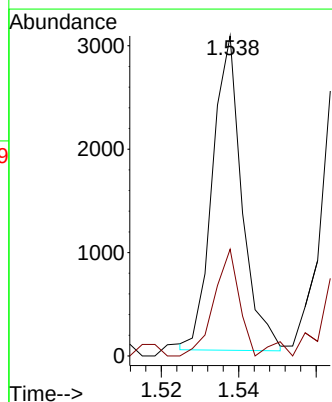
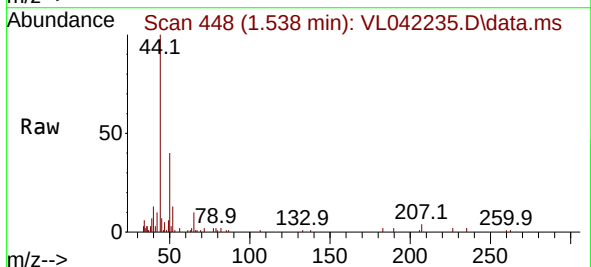
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B10-4-04012025

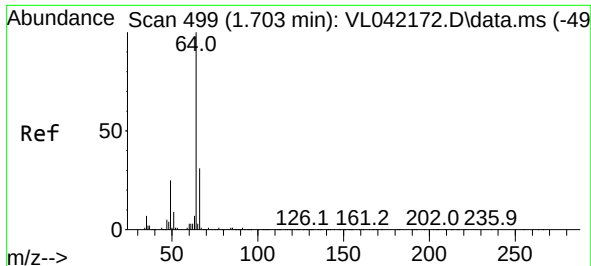
Tgt Ion: 51 Resp: 5046
Ion Ratio Lower Upper
51 100
67 12.0 15.0 22.6#



#4
Chloromethane
Concen: 0.133 ppbv
RT: 1.538 min Scan# 448
Delta R.T. 0.006 min
Lab File: VL042235.D
Acq: 07 Apr 2025 14:51

Tgt Ion: 50 Resp: 1607
Ion Ratio Lower Upper
50 100
52 34.4 26.1 39.1

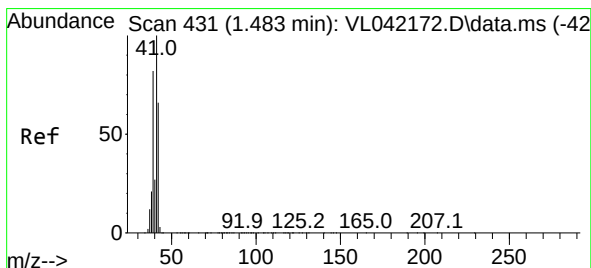
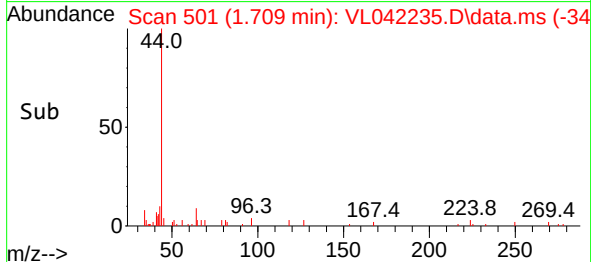
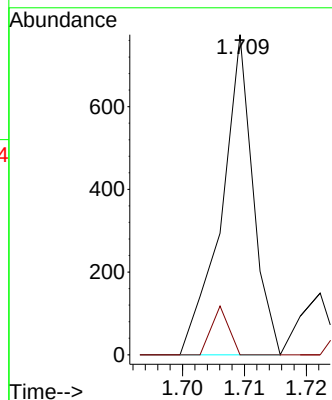
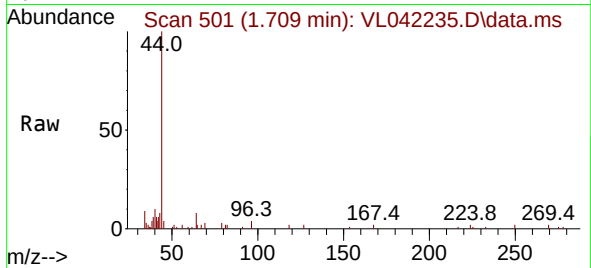




#7
Chloroethane
Concen: 0.056 ppbv
RT: 1.709 min Scan# 501
Delta R.T. 0.006 min
Lab File: VL042235.D
Acq: 07 Apr 2025 14:51

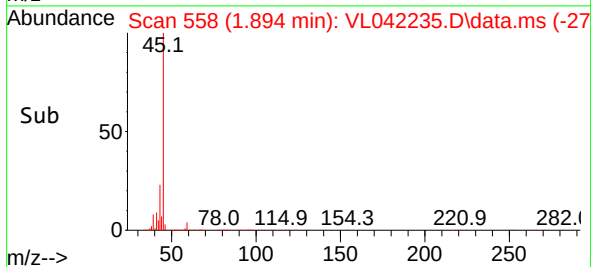
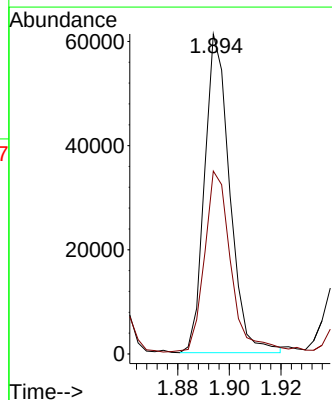
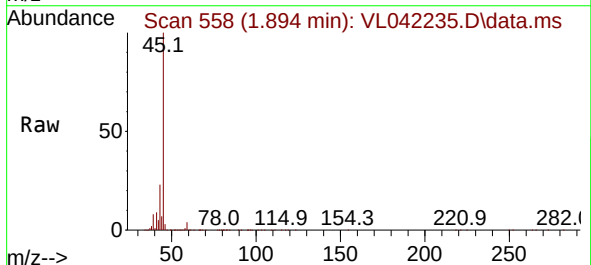
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B10-4-04012025

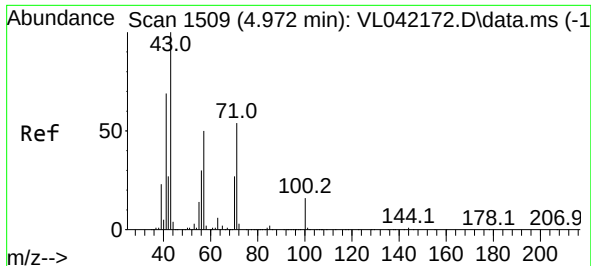
Tgt Ion: 64 Resp: 274
Ion Ratio Lower Upper
64 100
66 0.0 25.2 37.8#



#9
Propene
Concen: 2.983 ppbv
RT: 1.894 min Scan# 558
Delta R.T. 0.411 min
Lab File: VL042235.D
Acq: 07 Apr 2025 14:51

Tgt Ion: 41 Resp: 41358
Ion Ratio Lower Upper
41 100
42 60.5 55.4 83.2

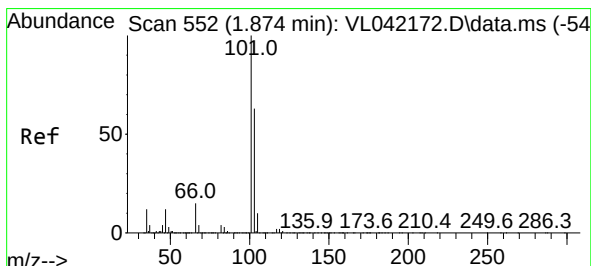
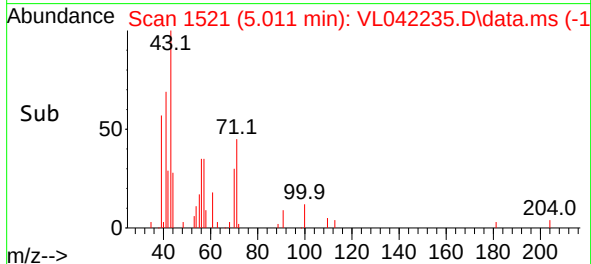
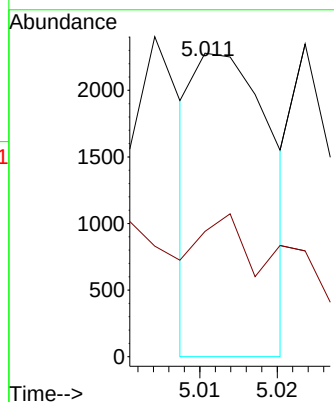
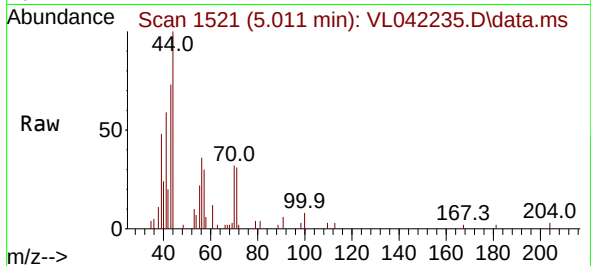




#10
Heptane
Concen: 0.042 ppbv
RT: 5.011 min Scan# 11
Delta R.T. 0.039 min
Lab File: VL042235.D
Acq: 07 Apr 2025 14:51

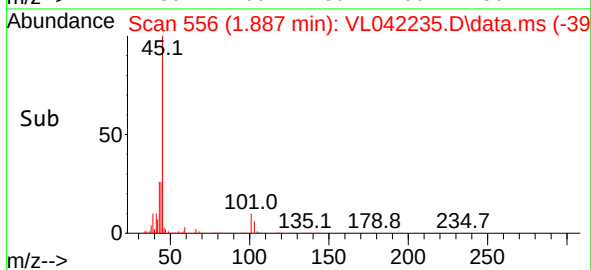
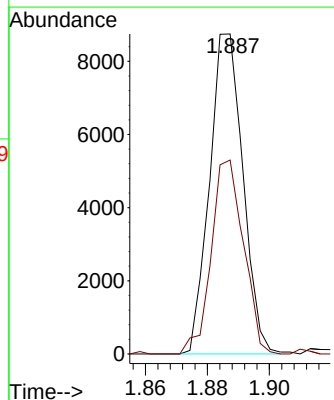
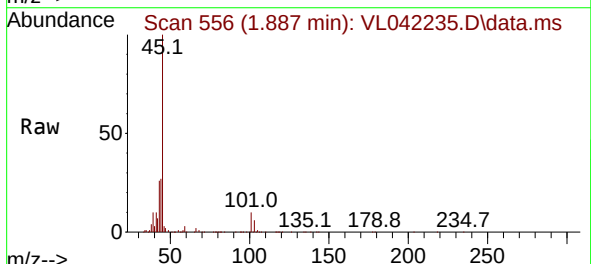
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ClientSampleId :
SSSG-B10-4-04012025

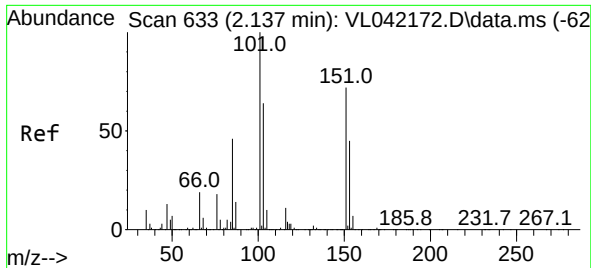
Tgt Ion: 43 Resp: 1564
Ion Ratio Lower Upper
43 100
57 0.0 39.4 59.2#



#11
Trichlorofluoromethane
Concen: 0.228 ppbv
RT: 1.887 min Scan# 556
Delta R.T. 0.013 min
Lab File: VL042235.D
Acq: 07 Apr 2025 14:51

Tgt Ion:101 Resp: 6560
Ion Ratio Lower Upper
101 100
103 60.6 50.2 75.2

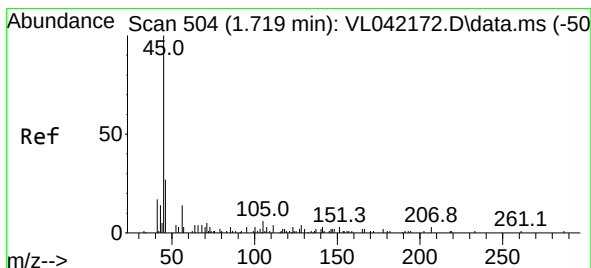
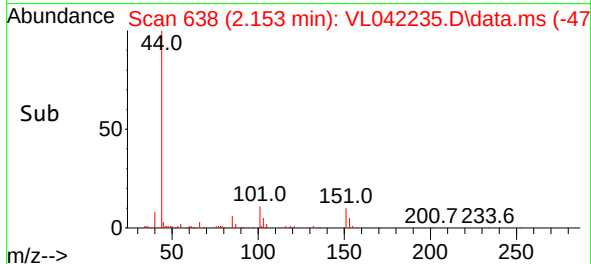
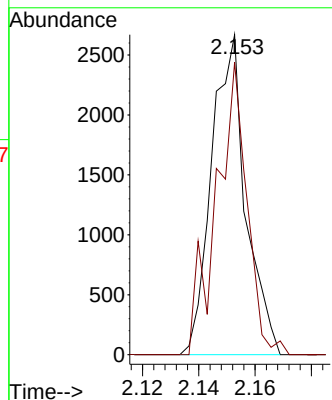
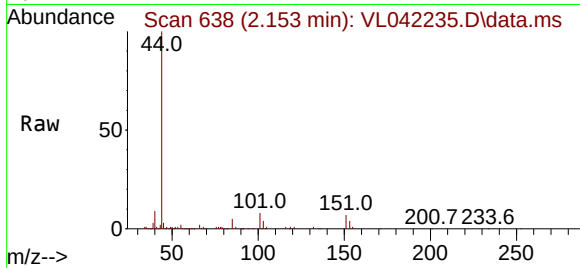




#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.095 ppbv
 RT: 2.153 min Scan# 611
 Delta R.T. 0.016 min
 Lab File: VL042235.D
 Acq: 07 Apr 2025 14:51

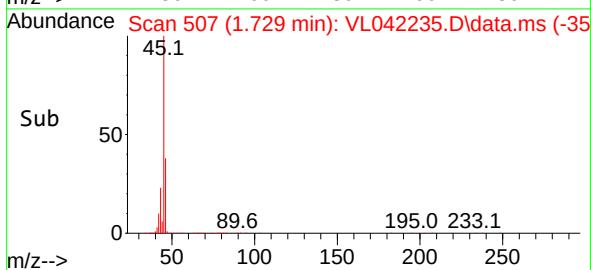
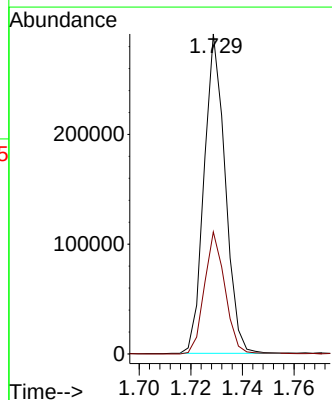
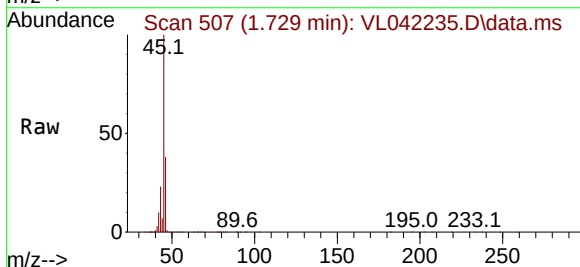
Instrument :
 MSVOA_L
 ClientSampleId :
 SSSG-B10-4-04012025

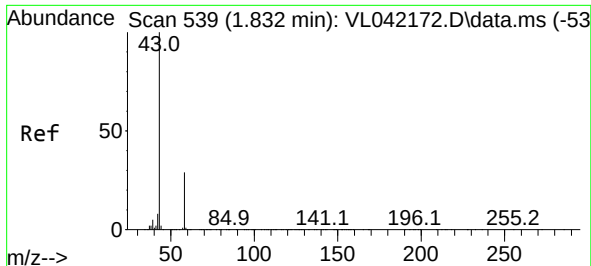
Tgt Ion:101 Resp: 2246
 Ion Ratio Lower Upper
 101 100
 151 82.0 57.1 85.7



#13
 Ethanol
 Concen: 126.257 ppbv
 RT: 1.729 min Scan# 507
 Delta R.T. 0.010 min
 Lab File: VL042235.D
 Acq: 07 Apr 2025 14:51

Tgt Ion: 45 Resp: 165486
 Ion Ratio Lower Upper
 45 100
 46 37.6 20.2 80.8

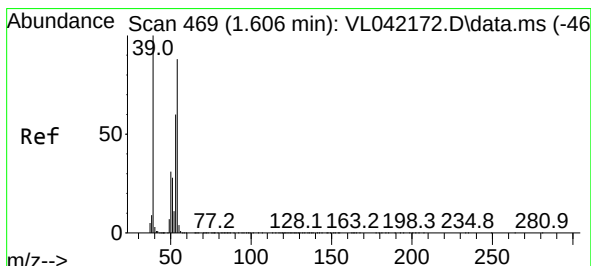
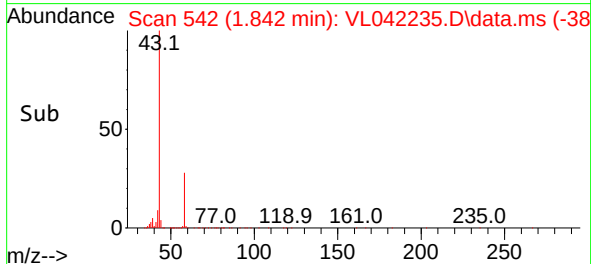
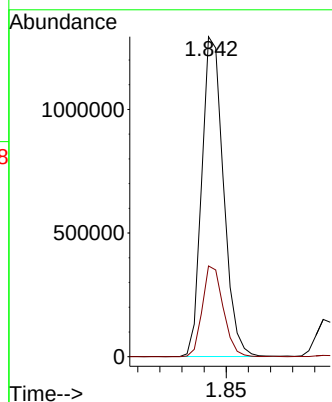
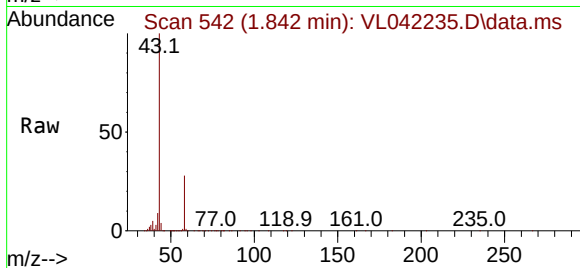




#15
Acetone
Concen: 31.325 ppbv
RT: 1.842 min Scan# 54
Delta R.T. 0.010 min
Lab File: VL042235.D
Acq: 07 Apr 2025 14:51

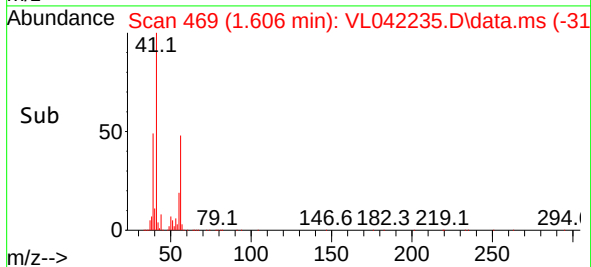
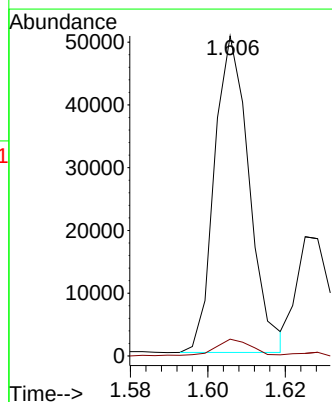
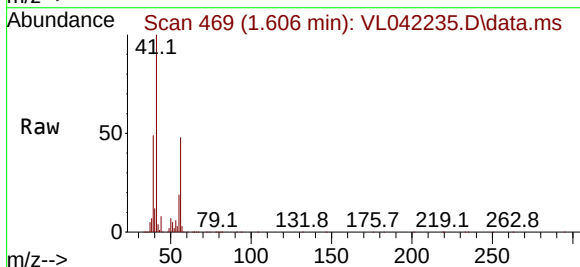
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B10-4-04012025

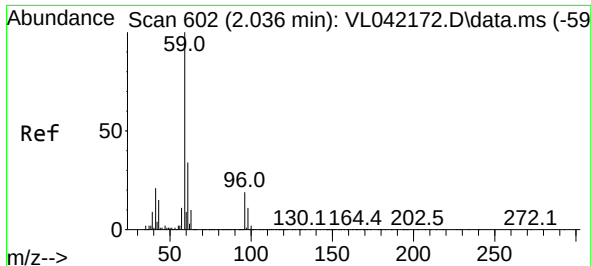
Tgt Ion: 43 Resp: 878596
Ion Ratio Lower Upper
43 100
58 27.4 23.2 34.8



#16
1,3-Butadiene
Concen: 2.298 ppbv
RT: 1.606 min Scan# 469
Delta R.T. -0.000 min
Lab File: VL042235.D
Acq: 07 Apr 2025 14:51

Tgt Ion: 39 Resp: 31473
Ion Ratio Lower Upper
39 100
54 7.0 60.7 91.1#





#17

tert-Butyl alcohol

Concen: 0.448 ppbv

RT: 1.894 min Scan# 51

Delta R.T. -0.143 min

Lab File: VL042235.D

Acq: 07 Apr 2025 14:51

Instrument :

MSVOA_L

ClientSampleId :

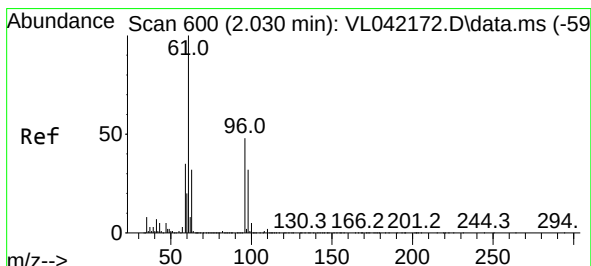
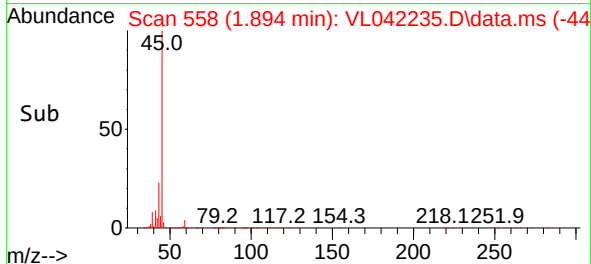
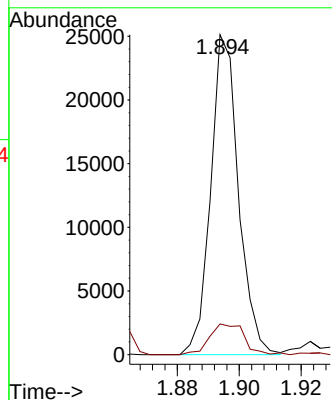
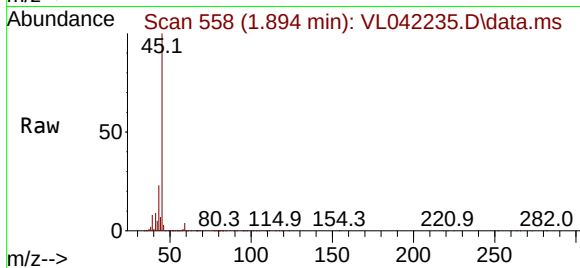
SSSG-B10-4-04012025

Tgt Ion: 59 Resp: 15656

Ion Ratio Lower Upper

59 100

57 13.0 8.9 13.3



#18

1,1-Dichloroethene

Concen: 1.554 ppbv

RT: 2.046 min Scan# 605

Delta R.T. 0.016 min

Lab File: VL042235.D

Acq: 07 Apr 2025 14:51

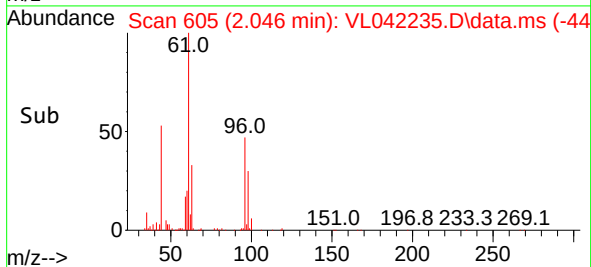
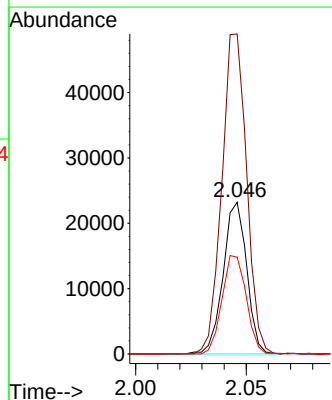
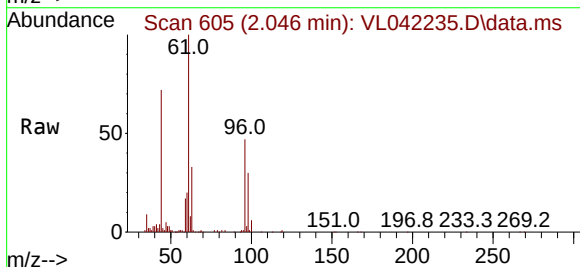
Tgt Ion: 96 Resp: 17208

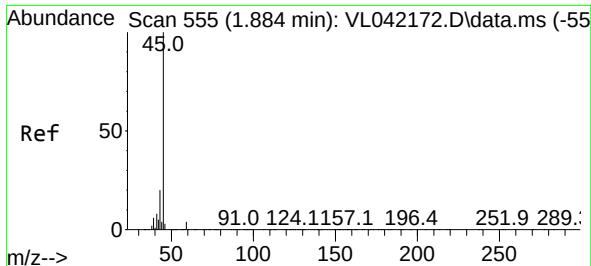
Ion Ratio Lower Upper

96 100

61 210.9 167.6 251.4

98 63.6 53.5 80.3

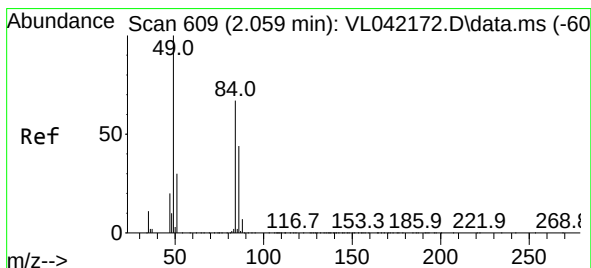
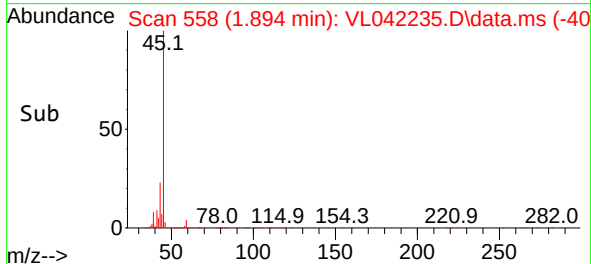
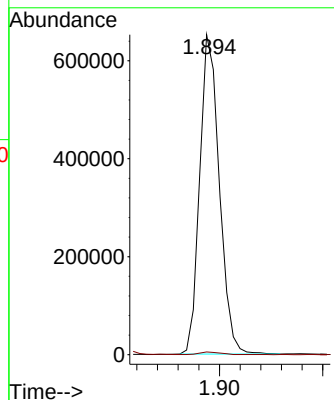
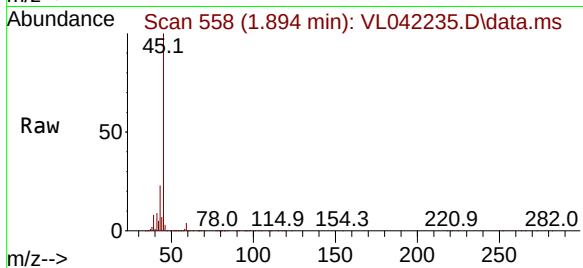




#19
Isopropyl Alcohol
Concen: 27.122 ppbv
RT: 1.894 min Scan# 51
Delta R.T. 0.010 min
Lab File: VL042235.D
Acq: 07 Apr 2025 14:51

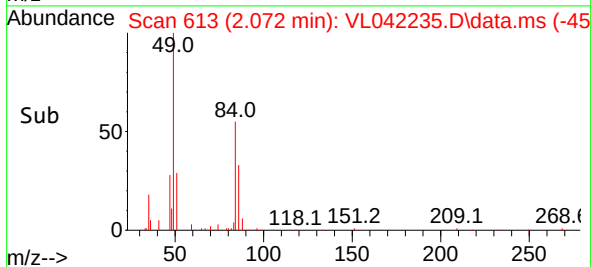
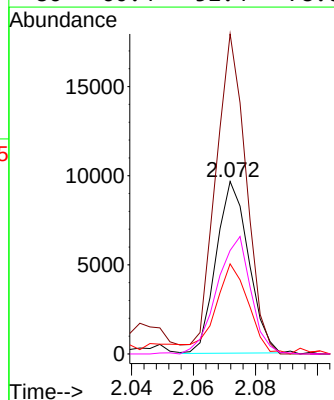
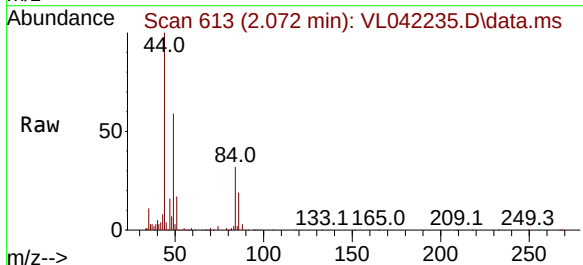
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B10-4-04012025

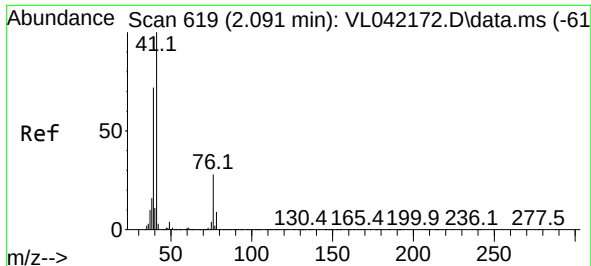
Tgt Ion: 45 Resp: 429215
Ion Ratio Lower Upper
45 100
58 56.0 36.9 55.3#



#20
Methylene Chloride
Concen: 0.670 ppbv
RT: 2.072 min Scan# 613
Delta R.T. 0.013 min
Lab File: VL042235.D
Acq: 07 Apr 2025 14:51

Tgt Ion: 84 Resp: 7004
Ion Ratio Lower Upper
84 100
49 186.7 120.2 180.4#
51 50.8 37.4 56.0
86 60.4 52.4 78.6

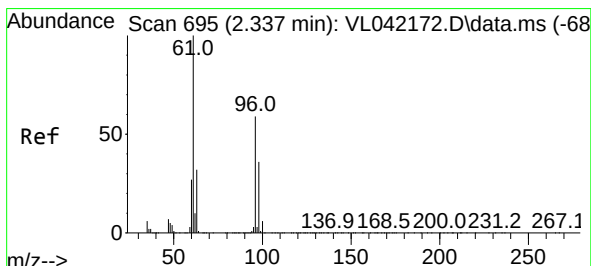
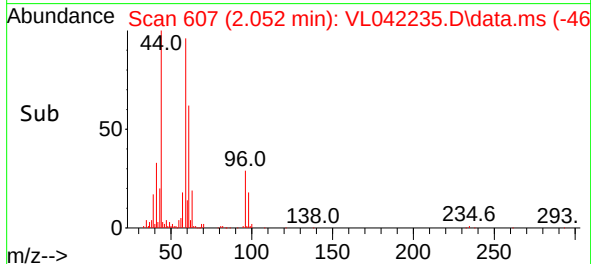
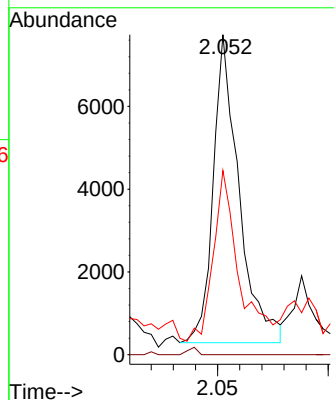
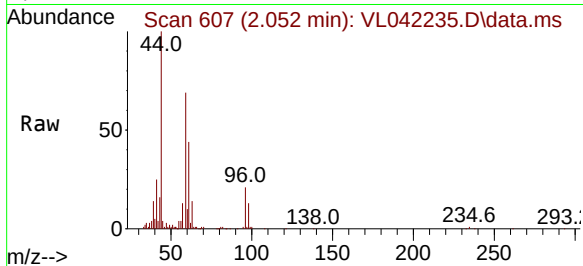




#21
Allyl Chloride
Concen: 0.305 ppbv
RT: 2.052 min Scan# 607
Delta R.T. -0.039 min
Lab File: VL042235.D
Acq: 07 Apr 2025 14:51

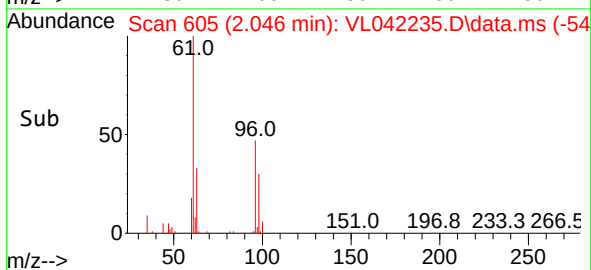
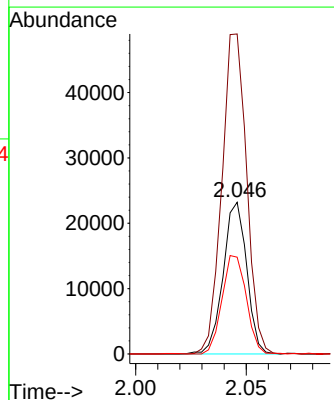
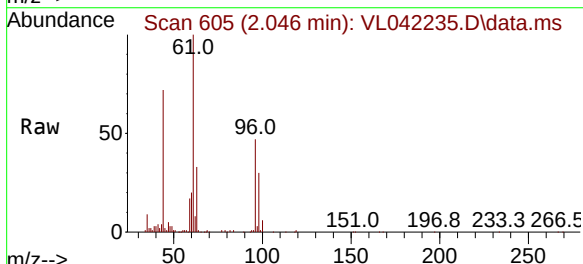
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B10-4-04012025

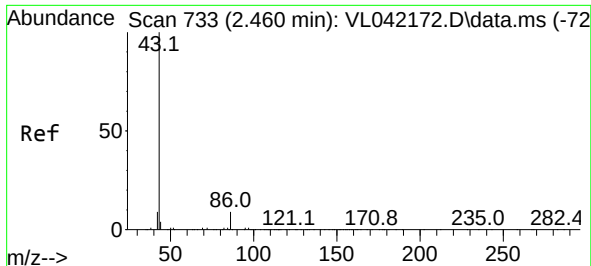
Tgt Ion: 41 Resp: 6028
Ion Ratio Lower Upper
41 100
76 1.7 24.1 36.1#
39 59.6 61.1 91.7#



#22
trans-1,2-Dichloroethene
Concen: 1.345 ppbv
RT: 2.046 min Scan# 605
Delta R.T. -0.291 min
Lab File: VL042235.D
Acq: 07 Apr 2025 14:51

Tgt Ion: 96 Resp: 17208
Ion Ratio Lower Upper
96 100
61 210.9 136.6 204.8#
98 63.6 49.4 74.2

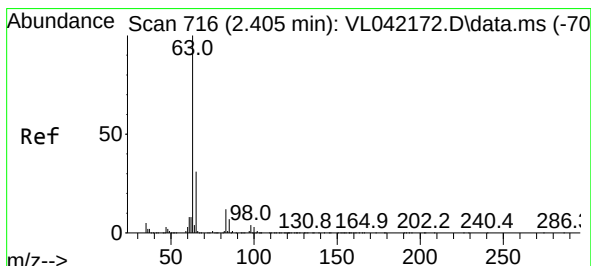
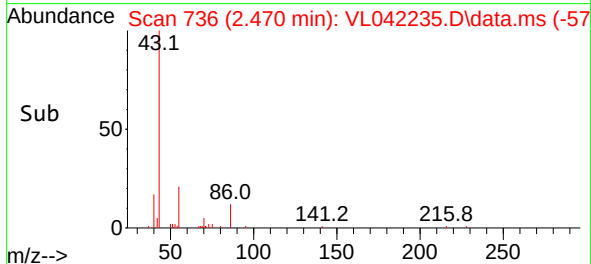
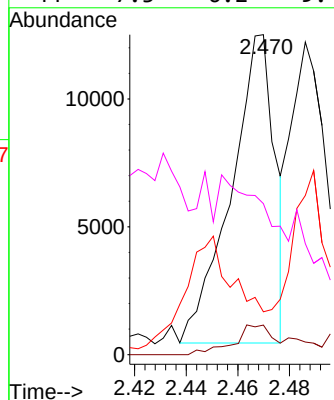
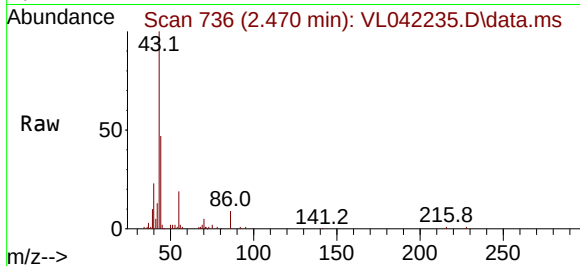




#23
 Vinyl Acetate
 Concen: 1.172 ppbv
 RT: 2.470 min Scan# 71
 Delta R.T. 0.010 min
 Lab File: VL042235.D
 Acq: 07 Apr 2025 14:51

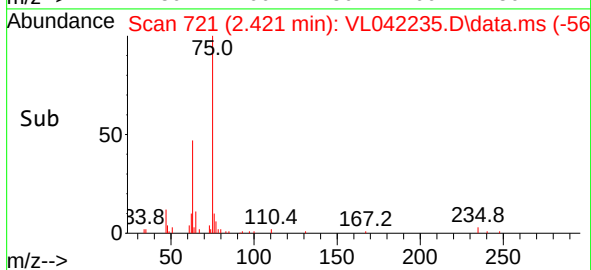
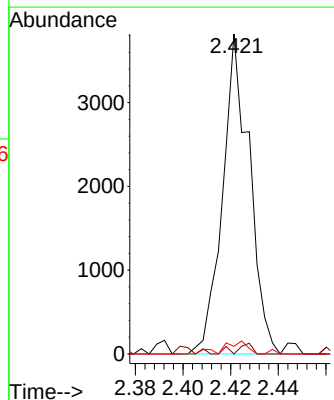
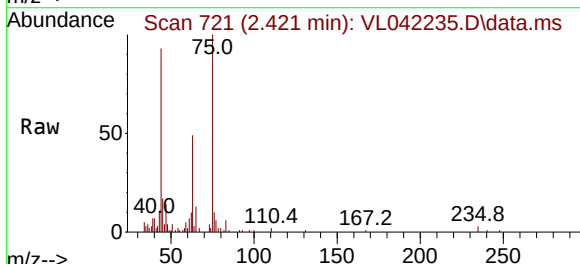
Instrument :
 MSVOA_L
 ClientSampleId :
 SSSG-B10-4-04012025

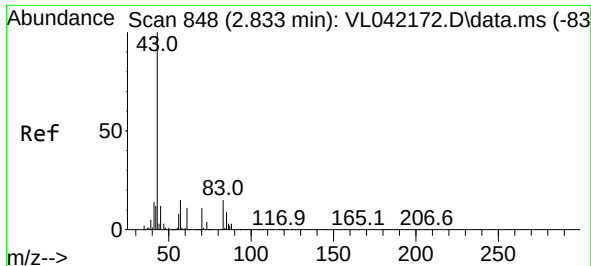
Tgt Ion:	43	Resp:	14231
Ion	Ratio	Lower	Upper
43	100		
86	9.6	5.5	8.3#
42	0.0	8.6	13.0#
44	7.3	6.2	9.4



#24
 1,1-Dichloroethane
 Concen: 0.126 ppbv
 RT: 2.421 min Scan# 721
 Delta R.T. 0.016 min
 Lab File: VL042235.D
 Acq: 07 Apr 2025 14:51

Tgt Ion:	63	Resp:	2995
Ion	Ratio	Lower	Upper
63	100		
98	0.0	2.3	6.8#
100	2.4	1.6	4.7





#25

Ethyl Acetate

Concen: 0.031 ppbv

RT: 2.862 min Scan# 81

Delta R.T. 0.029 min

Lab File: VL042235.D

Acq: 07 Apr 2025 14:51

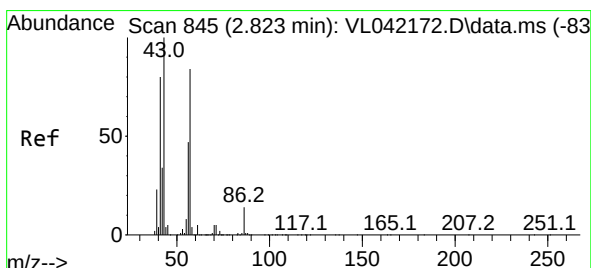
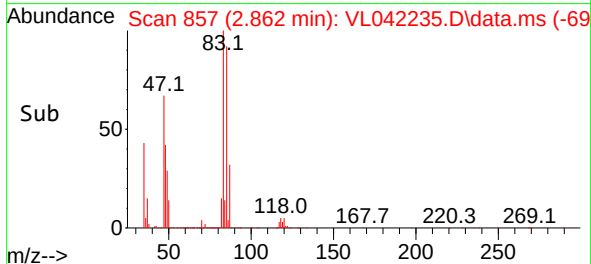
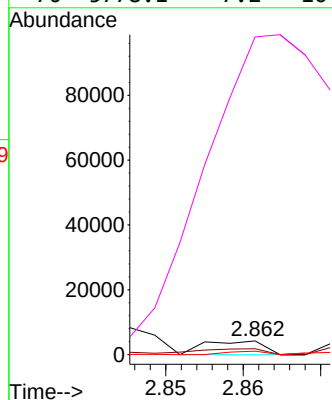
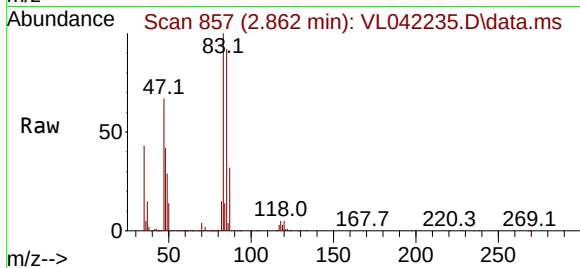
Instrument :

MSVOA_L

ClientSampleId :

SSSG-B10-4-04012025

Tgt Ion:	43	Resp:	2278
Ion Ratio	Lower	Upper	
43	100		
45	94.8	8.2	12.2#
61	51.0	7.3	10.9#
70	5778.1	7.2	10.8#



#26

Hexane

Concen: 0.447 ppbv

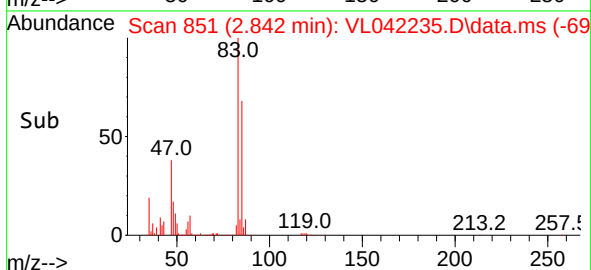
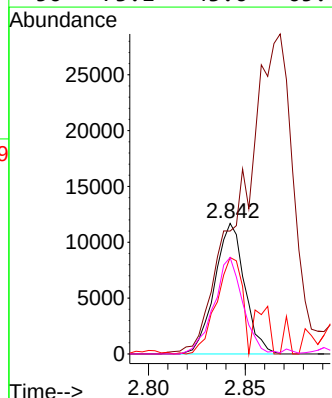
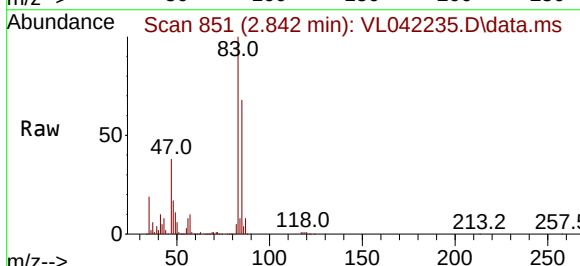
RT: 2.842 min Scan# 851

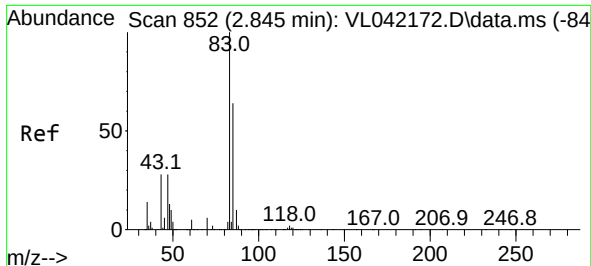
Delta R.T. 0.019 min

Lab File: VL042235.D

Acq: 07 Apr 2025 14:51

Tgt Ion:	57	Resp:	12578
Ion Ratio	Lower	Upper	
57	100		
41	455.4	76.6	114.8#
43	86.6	207.8	311.8#
56	73.1	43.6	65.4#





#29

Chloroform

Concen: 123.718 ppbv

RT: 2.865 min Scan# 81

Delta R.T. 0.019 min

Lab File: VL042235.D

Acq: 07 Apr 2025 14:51

Instrument :

MSVOA_L

ClientSampleId :

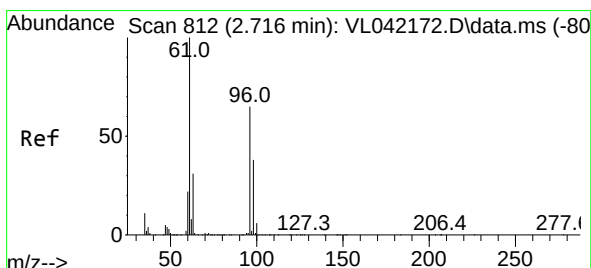
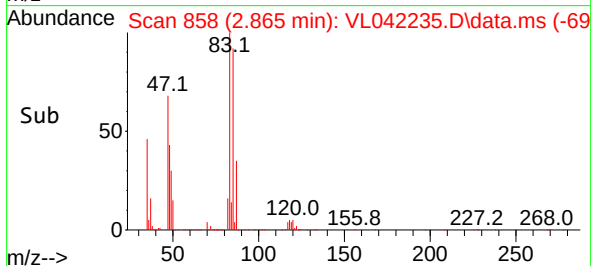
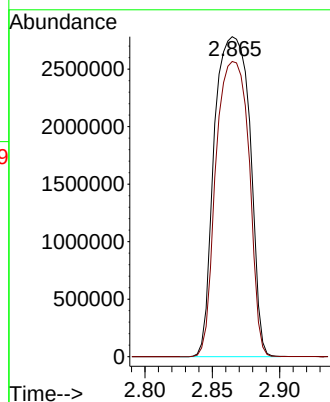
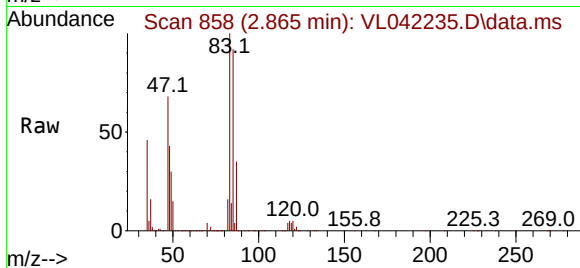
SSSG-B10-4-04012025

Tgt Ion: 83 Resp: 5091112

Ion Ratio Lower Upper

83 100

85 92.2 51.4 77.2#



#31

cis-1,2-Dichloroethene

Concen: 0.031 ppbv

RT: 2.735 min Scan# 818

Delta R.T. 0.019 min

Lab File: VL042235.D

Acq: 07 Apr 2025 14:51

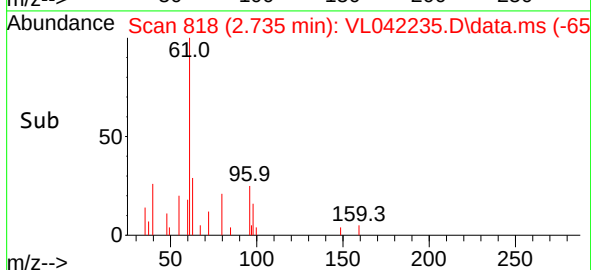
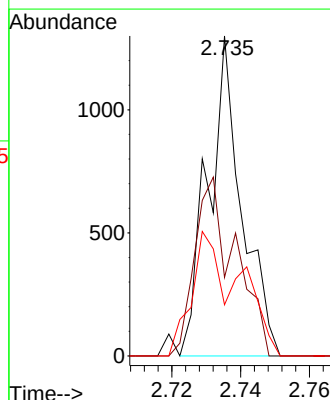
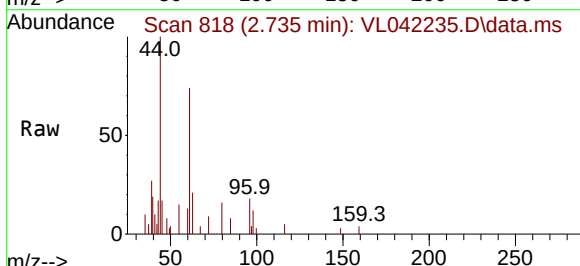
Tgt Ion: 61 Resp: 886

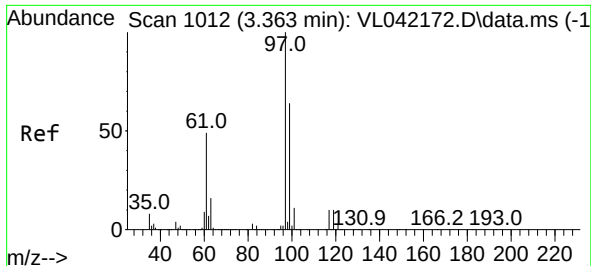
Ion Ratio Lower Upper

61 100

96 24.5 51.8 77.8#

98 16.0 30.6 46.0#

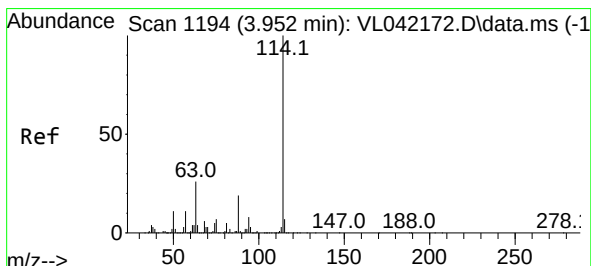
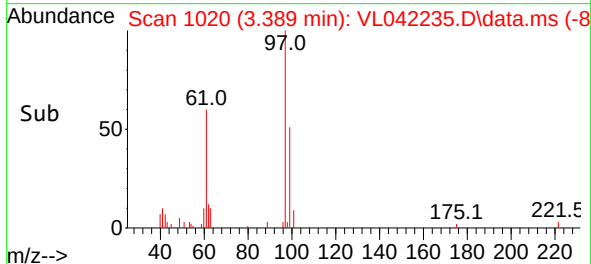
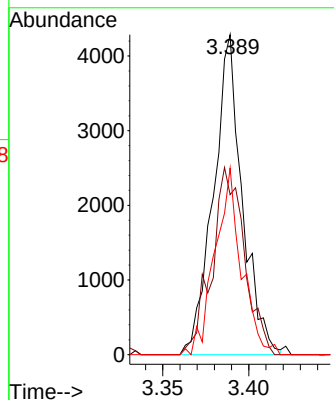
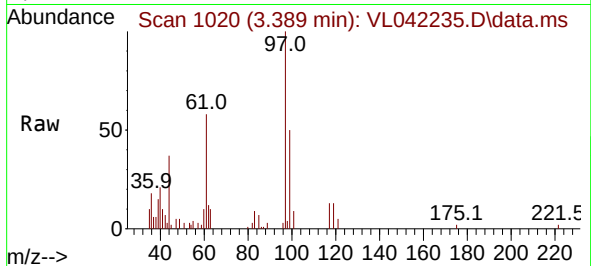




#32
 1,1,1-Trichloroethane
 Concen: 0.106 ppbv
 RT: 3.389 min Scan# 110
 Delta R.T. 0.026 min
 Lab File: VL042235.D
 Acq: 07 Apr 2025 14:51

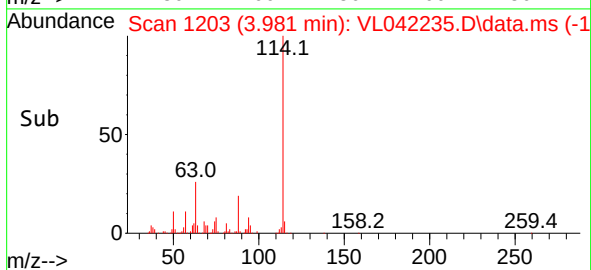
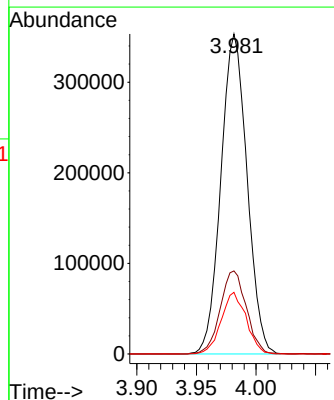
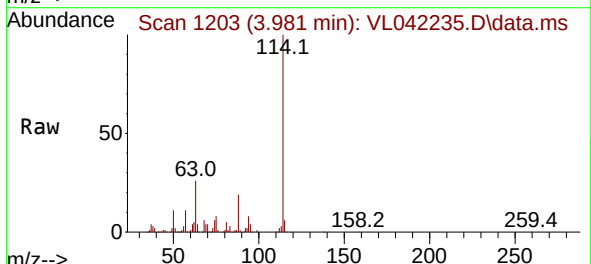
Instrument :
 MSVOA_L
 ClientSampleId :
 SSSG-B10-4-04012025

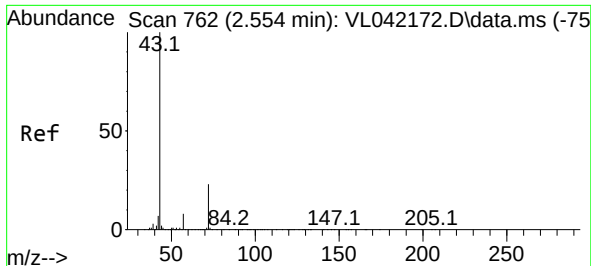
Tgt Ion: 97 Resp: 5002
 Ion Ratio Lower Upper
 97 100
 99 65.8 51.5 77.3
 61 53.9 38.7 58.1



#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 3.981 min Scan# 1203
 Delta R.T. 0.029 min
 Lab File: VL042235.D
 Acq: 07 Apr 2025 14:51

Tgt Ion: 114 Resp: 538469
 Ion Ratio Lower Upper
 114 100
 63 25.9 20.7 31.1
 88 18.4 15.0 22.4

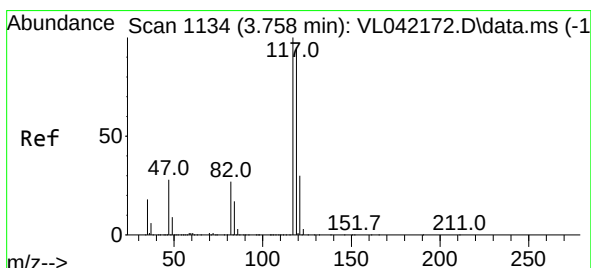
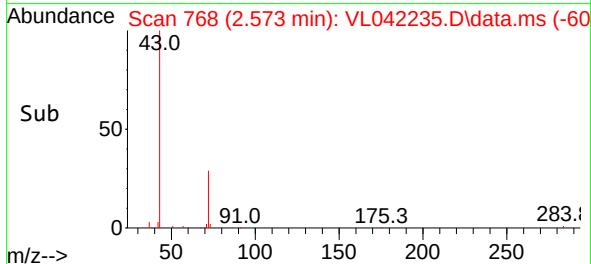
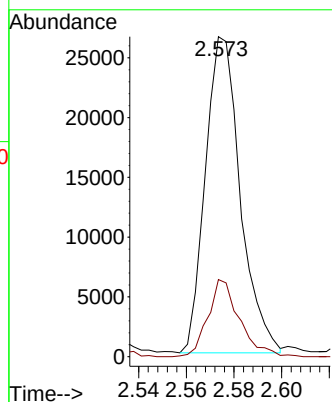
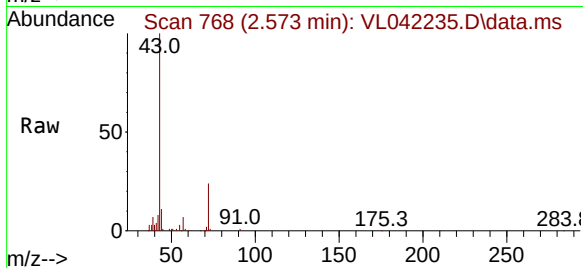




#34
2-Butanone
Concen: 0.690 ppbv
RT: 2.573 min Scan# 768
Delta R.T. 0.019 min
Lab File: VL042235.D
Acq: 07 Apr 2025 14:51

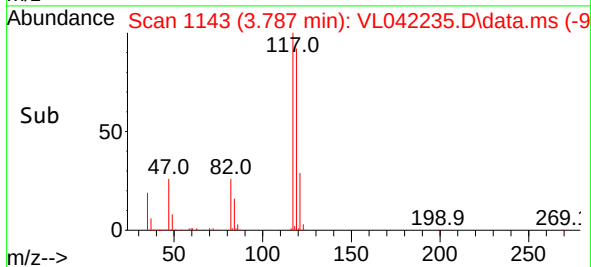
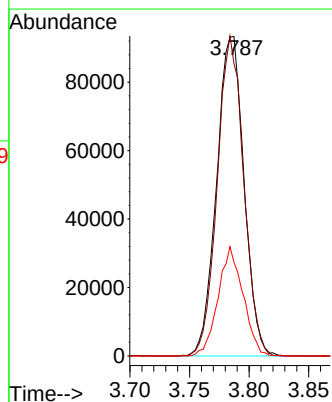
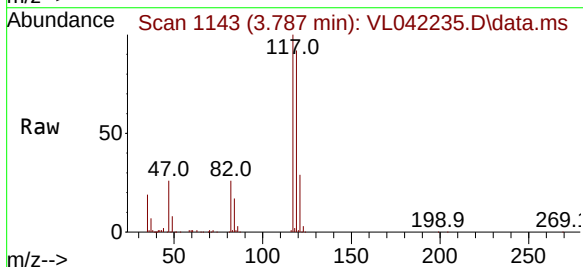
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B10-4-04012025

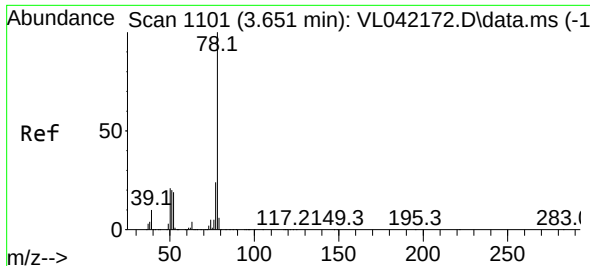
Tgt Ion: 43 Resp: 26940
Ion Ratio Lower Upper
43 100
72 22.0 18.2 27.2



#35
Carbon Tetrachloride
Concen: 3.555 ppbv
RT: 3.787 min Scan# 1143
Delta R.T. 0.029 min
Lab File: VL042235.D
Acq: 07 Apr 2025 14:51

Tgt Ion: 117 Resp: 149549
Ion Ratio Lower Upper
117 100
119 91.6 76.2 114.2
121 29.3 24.2 36.4

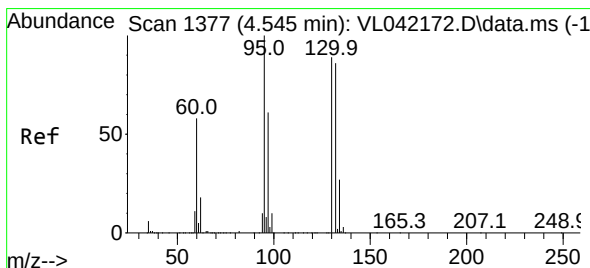
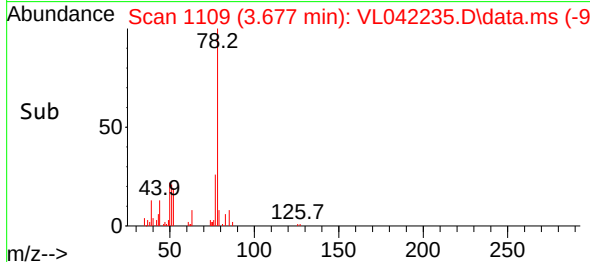
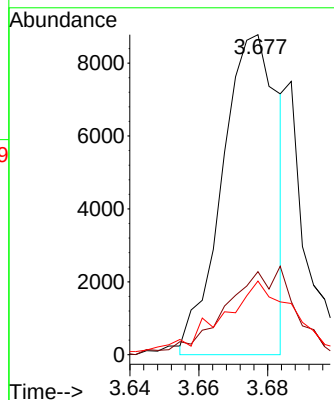
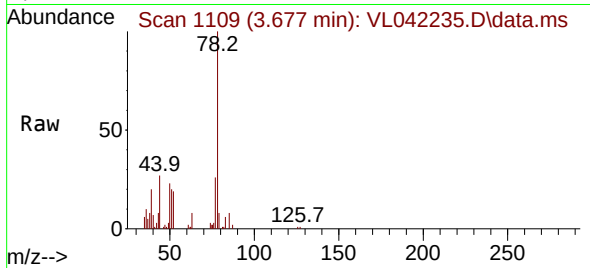




#36
Benzene
Concen: 0.184 ppbv
RT: 3.677 min Scan# 1109
Delta R.T. 0.026 min
Lab File: VL042235.D
Acq: 07 Apr 2025 14:51

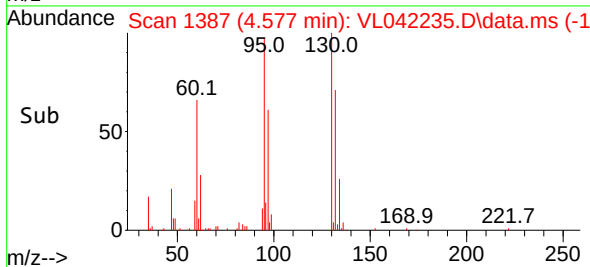
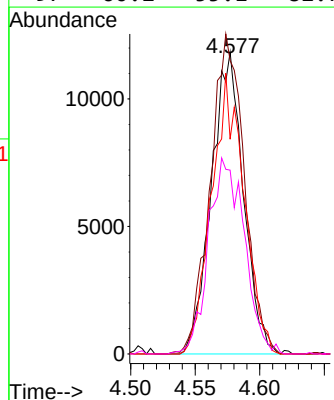
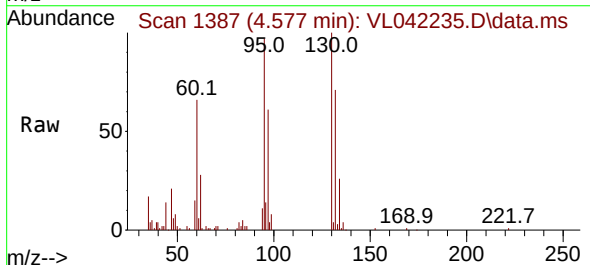
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B10-4-04012025

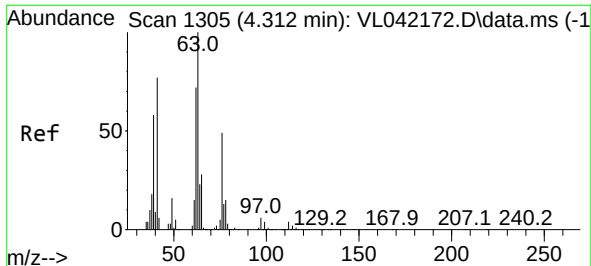
Tgt Ion: 78 Resp: 9849
Ion Ratio Lower Upper
78 100
77 22.6 19.1 28.7
50 18.8 16.6 24.8



#38
Trichloroethene
Concen: 0.916 ppbv
RT: 4.577 min Scan# 1387
Delta R.T. 0.032 min
Lab File: VL042235.D
Acq: 07 Apr 2025 14:51

Tgt Ion:130 Resp: 20401
Ion Ratio Lower Upper
130 100
95 97.2 89.8 134.8
132 71.1 77.4 116.2#
97 60.2 55.1 82.7





#39

1,2-Dichloropropane

Concen: 7.163 ppbv

RT: 3.981 min Scan# 11

Delta R.T. -0.330 min

Lab File: VL042235.D

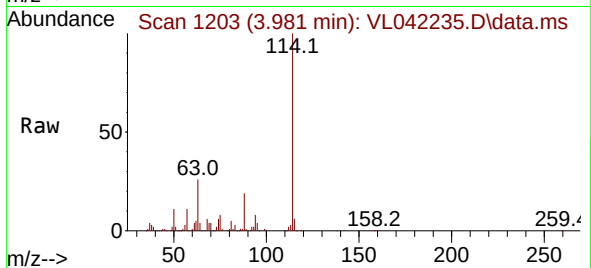
Acq: 07 Apr 2025 14:51

Instrument :

MSVOA_L

ClientSampleId :

SSSG-B10-4-04012025



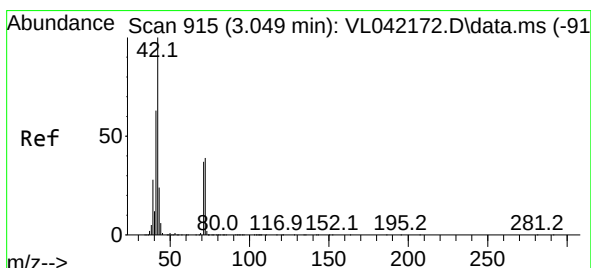
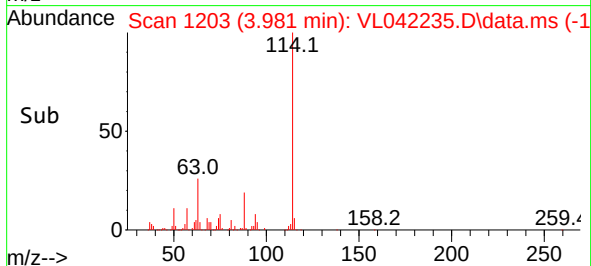
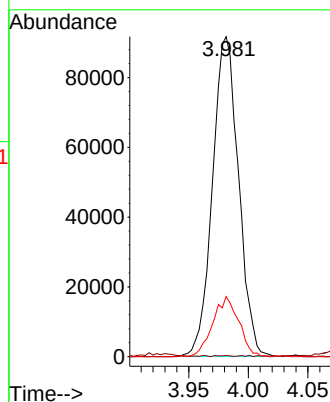
Tgt Ion: 63 Resp: 139255

Ion Ratio Lower Upper

63 100

41 0.3 61.7 92.5#

62 18.6 57.6 86.4#



#41

Tetrahydrofuran

Concen: 0.083 ppbv

RT: 3.091 min Scan# 928

Delta R.T. 0.042 min

Lab File: VL042235.D

Acq: 07 Apr 2025 14:51

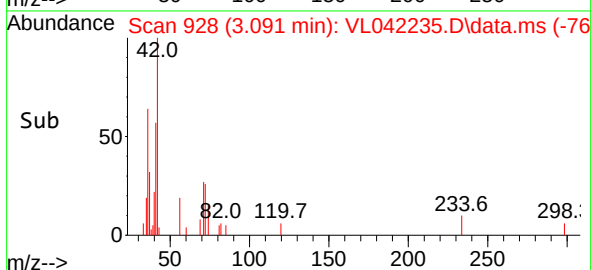
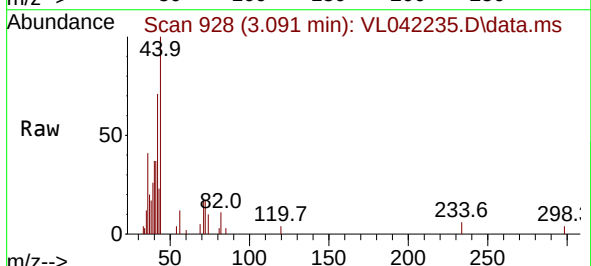
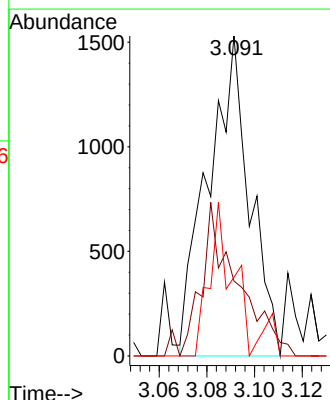
Tgt Ion: 42 Resp: 1861

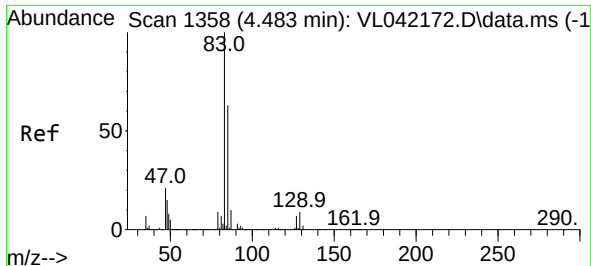
Ion Ratio Lower Upper

42 100

72 0.0 31.4 47.0#

71 30.5 30.2 45.4

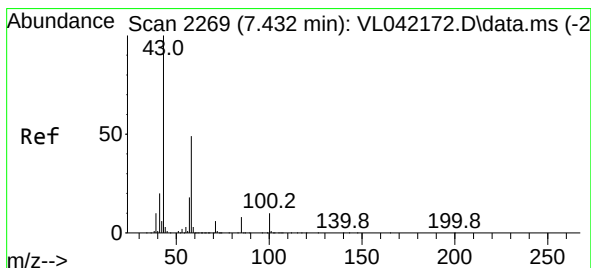
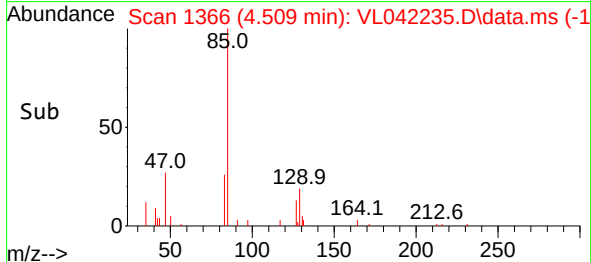
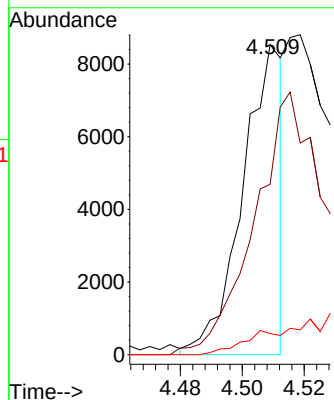
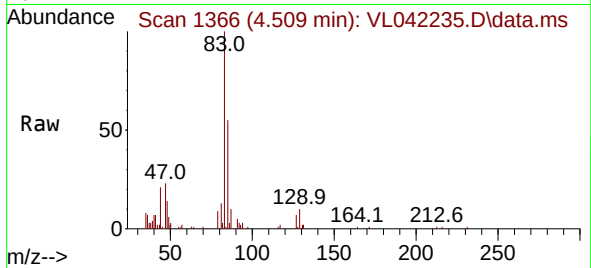




#42
Bromodichloromethane
Concen: 0.181 ppbv
RT: 4.509 min Scan# 11
Delta R.T. 0.026 min
Lab File: VL042235.D
Acq: 07 Apr 2025 14:51

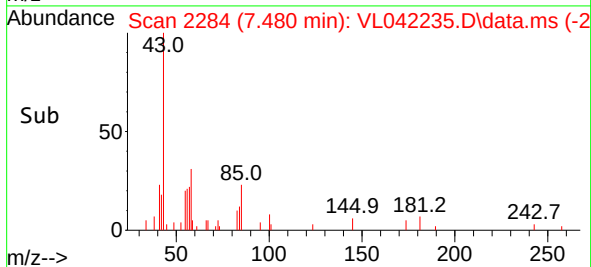
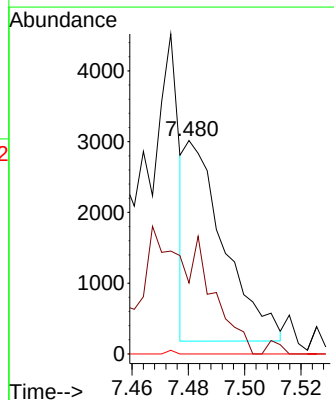
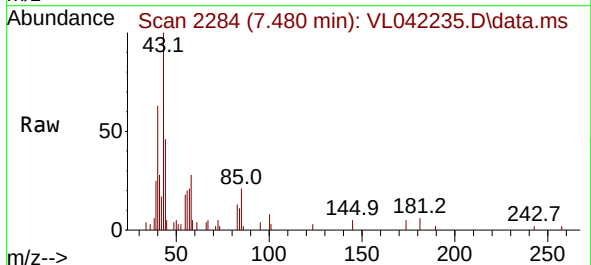
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B10-4-04012025

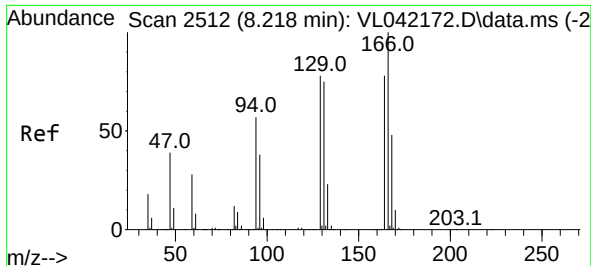
Tgt Ion: 83 Resp: 7639
Ion Ratio Lower Upper
83 100
85 53.8 50.5 75.7
127 7.0 5.9 8.9



#51
2-Hexanone
Concen: 0.053 ppbv
RT: 7.480 min Scan# 2284
Delta R.T. 0.048 min
Lab File: VL042235.D
Acq: 07 Apr 2025 14:51

Tgt Ion: 43 Resp: 2701
Ion Ratio Lower Upper
43 100
58 0.0 39.7 59.5#
98 0.0 0.1 0.1#

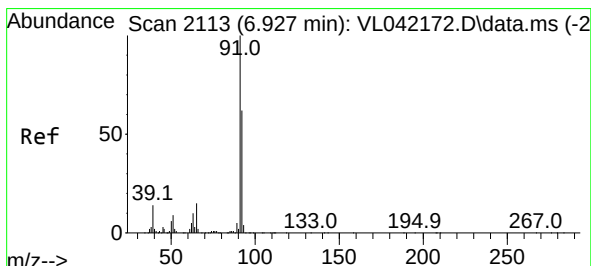
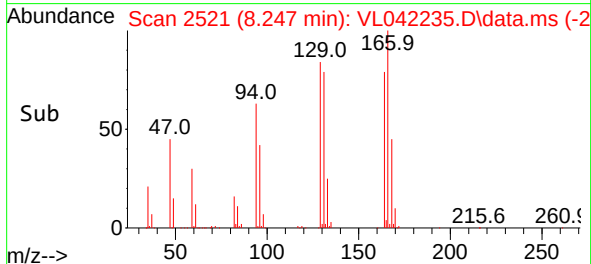
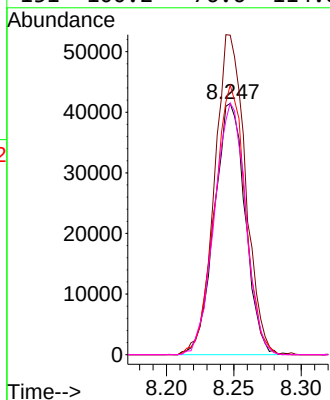
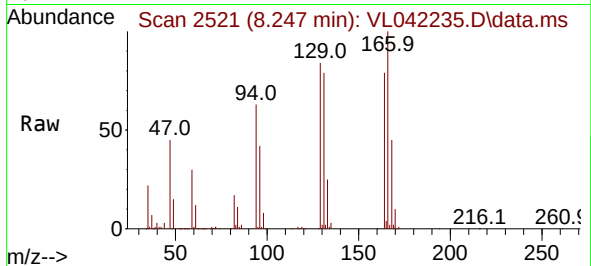




#52
Tetrachloroethene
Concen: 3.128 ppbv
RT: 8.247 min Scan# 2124
Delta R.T. 0.029 min
Lab File: VL042235.D
Acq: 07 Apr 2025 14:51

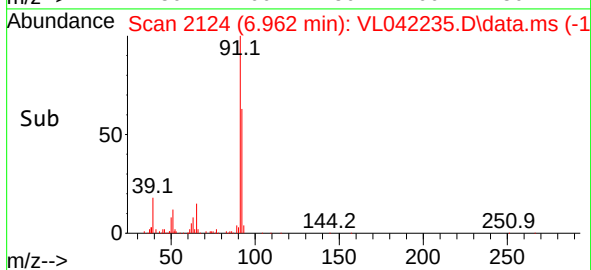
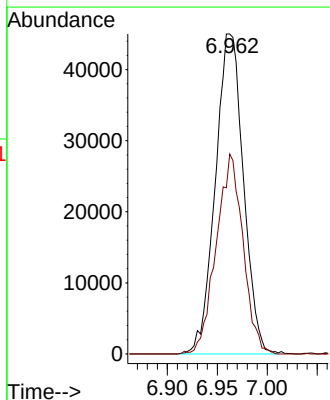
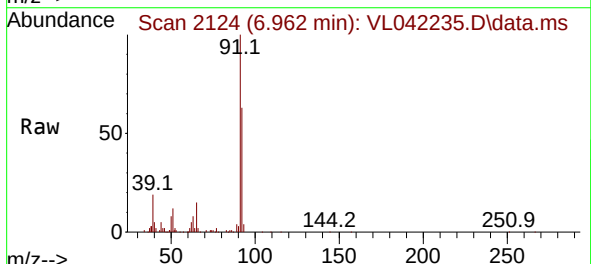
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B10-4-04012025

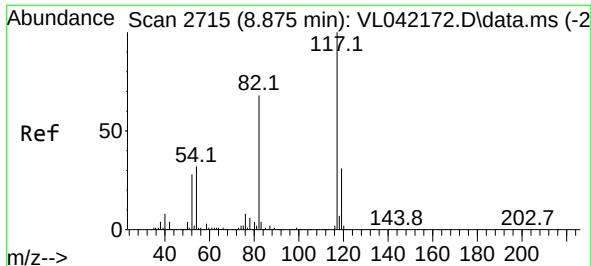
Tgt Ion:164	Resp:	66227	
Ion	Ratio	Lower	Upper
164	100		
166	127.2	102.5	153.7
129	107.3	79.8	119.8
131	100.2	76.6	114.8



#53
Toluene
Concen: 1.391 ppbv
RT: 6.962 min Scan# 2124
Delta R.T. 0.035 min
Lab File: VL042235.D
Acq: 07 Apr 2025 14:51

Tgt Ion: 91	Resp: 88021
Ion Ratio	Lower Upper
91 100	
92 59.6	48.4 72.6

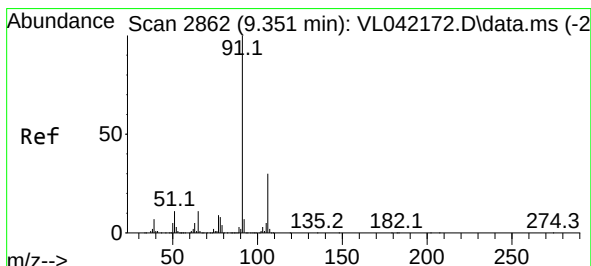
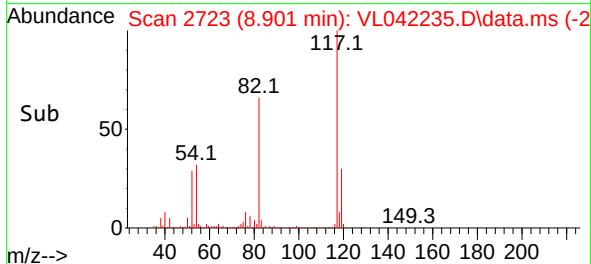
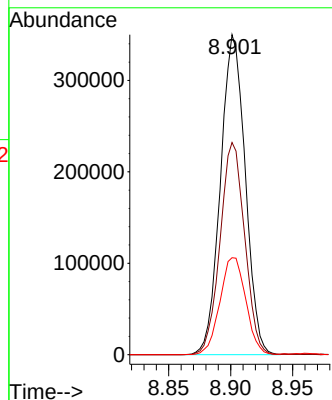
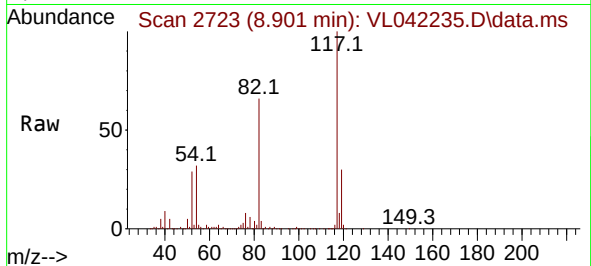




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.901 min Scan# 21
Delta R.T. 0.026 min
Lab File: VL042235.D
Acq: 07 Apr 2025 14:51

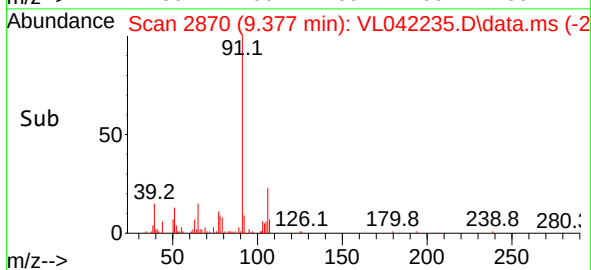
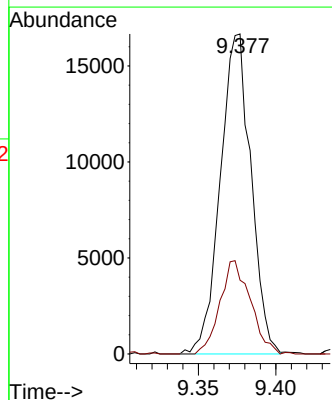
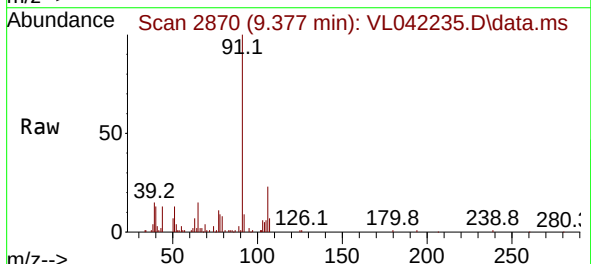
Instrument :
MSVOA_1
ClientSampleId :
SSSG-B10-4-04012025

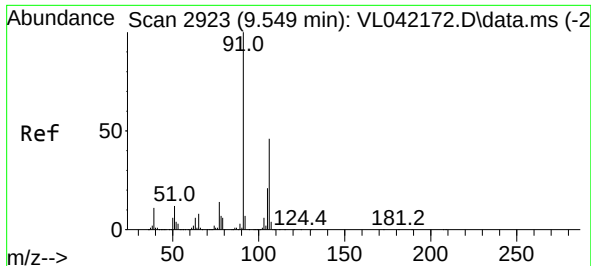
Tgt Ion:117 Resp: 487966
Ion Ratio Lower Upper
117 100
82 65.9 55.8 83.6
119 31.7 25.5 38.3



#58
Ethyl Benzene
Concen: 0.265 ppbv
RT: 9.377 min Scan# 2870
Delta R.T. 0.026 min
Lab File: VL042235.D
Acq: 07 Apr 2025 14:51

Tgt Ion: 91 Resp: 22956
Ion Ratio Lower Upper
91 100
106 23.1 24.2 36.2#





#59

m/p-Xylene

Concen: 1.131 ppbv

RT: 9.552 min Scan# 2924

Delta R.T. 0.003 min

Lab File: VL042235.D

Acq: 07 Apr 2025 14:51

Instrument :

MSVOA_L

ClientSampleId :

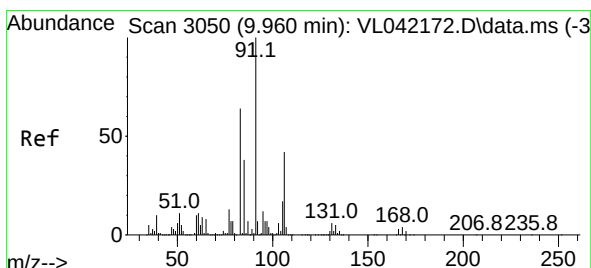
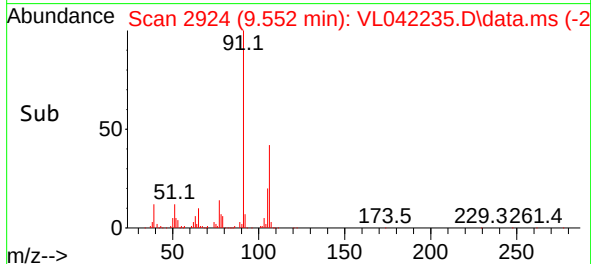
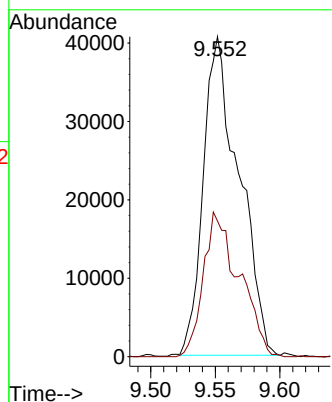
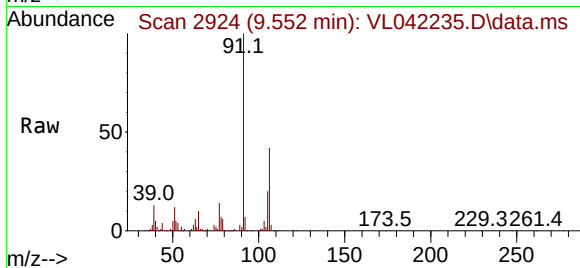
SSSG-B10-4-04012025

Tgt Ion: 91 Resp: 78245

Ion Ratio Lower Upper

91 100

106 45.6 36.4 54.6



#60

o-Xylene

Concen: 0.385 ppbv

RT: 9.982 min Scan# 3057

Delta R.T. 0.023 min

Lab File: VL042235.D

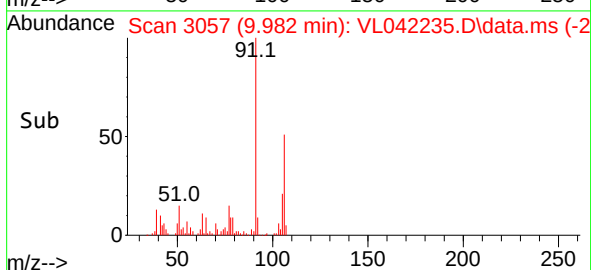
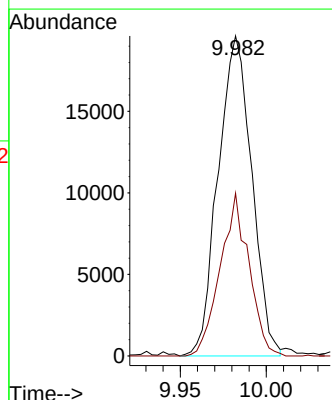
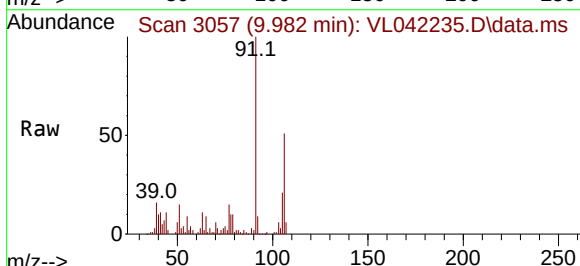
Acq: 07 Apr 2025 14:51

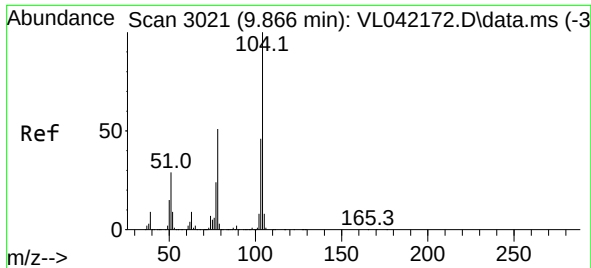
Tgt Ion: 91 Resp: 26678

Ion Ratio Lower Upper

91 100

106 43.4 20.8 62.5

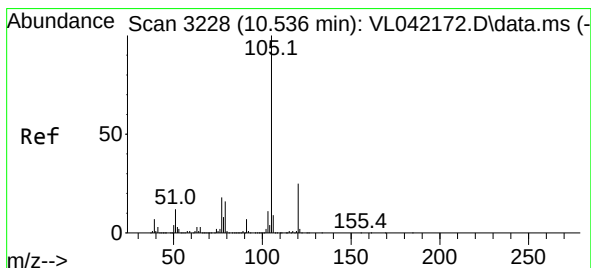
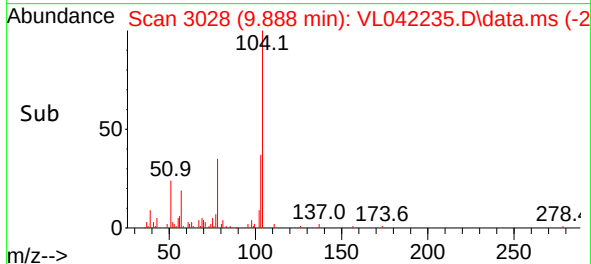
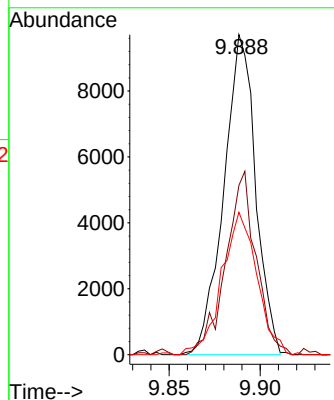
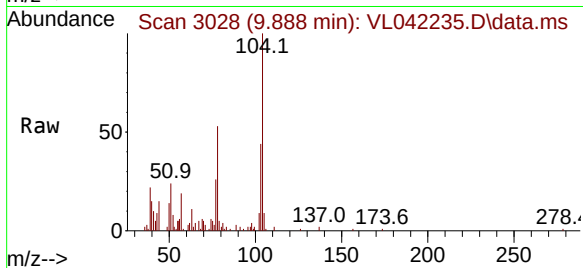




#61
Styrene
Concen: 0.344 ppbv
RT: 9.888 min Scan# 3021
Delta R.T. 0.023 min
Lab File: VL042235.D
Acq: 07 Apr 2025 14:51

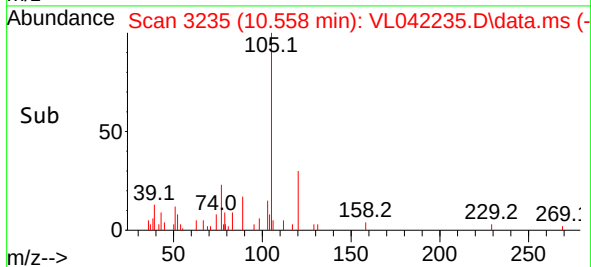
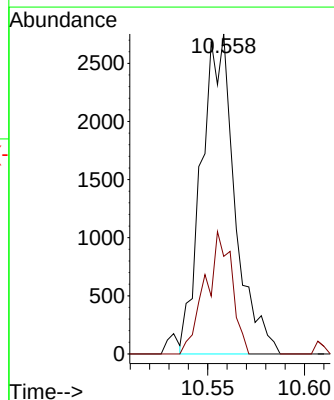
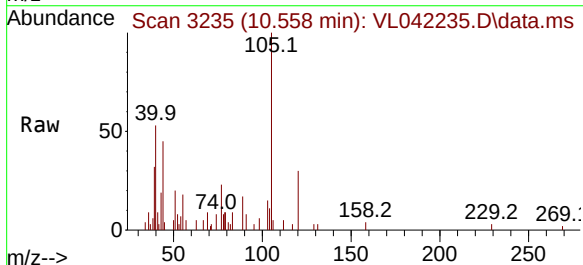
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B10-4-04012025

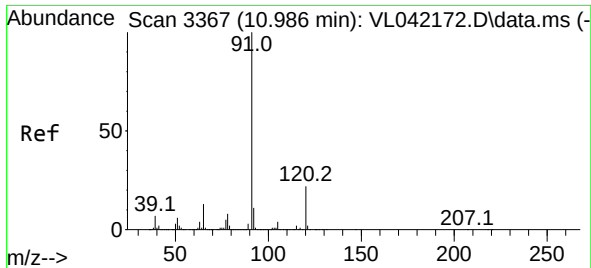
Tgt Ion:104 Resp: 11796
Ion Ratio Lower Upper
104 100
78 55.6 41.8 62.6
103 49.4 37.0 55.4



#62
Isopropylbenzene
Concen: 0.032 ppbv
RT: 10.558 min Scan# 3235
Delta R.T. 0.023 min
Lab File: VL042235.D
Acq: 07 Apr 2025 14:51

Tgt Ion:105 Resp: 3298
Ion Ratio Lower Upper
105 100
120 30.4 19.9 29.9#

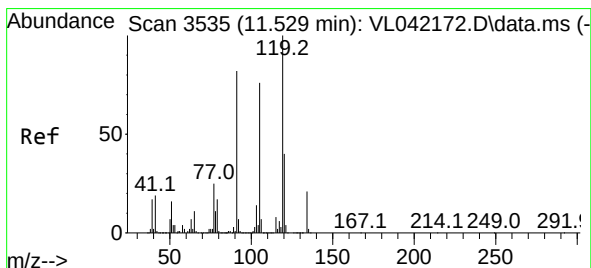
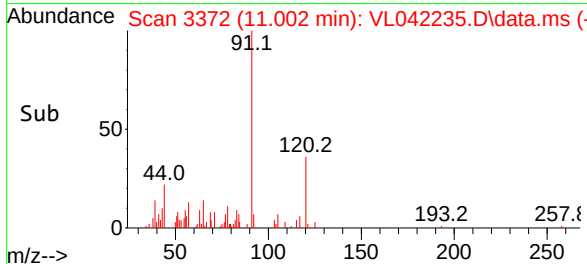
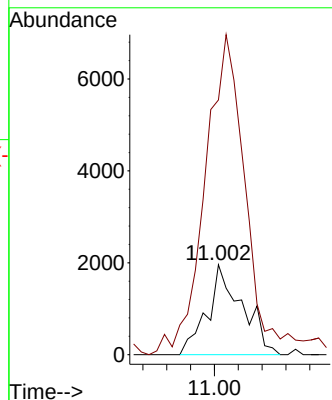
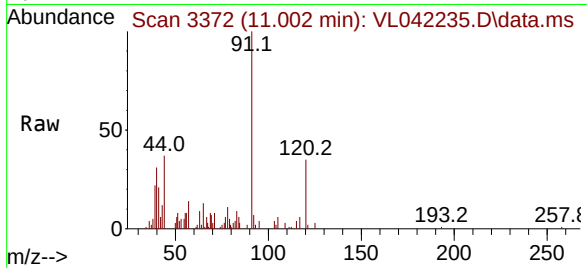




#64
n-propylbenzene
Concen: 0.075 ppbv
RT: 11.002 min Scan# 31
Delta R.T. 0.016 min
Lab File: VL042235.D
Acq: 07 Apr 2025 14:51

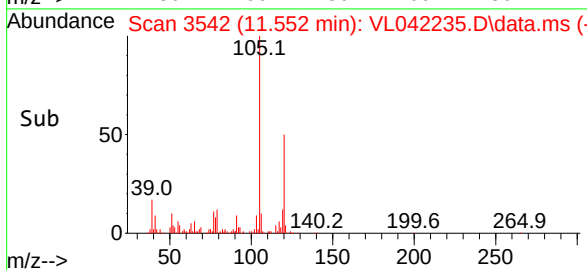
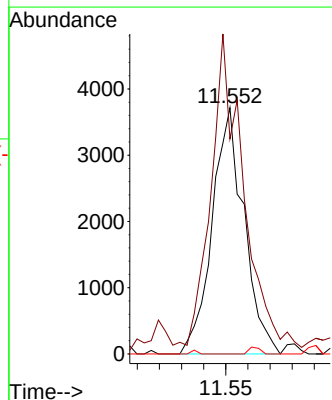
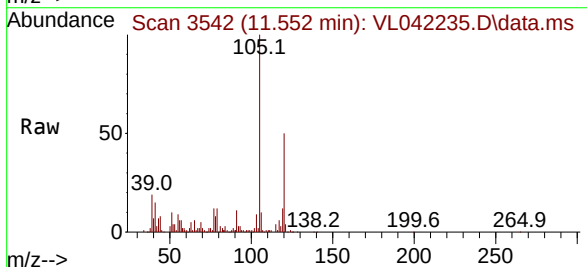
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B10-4-04012025

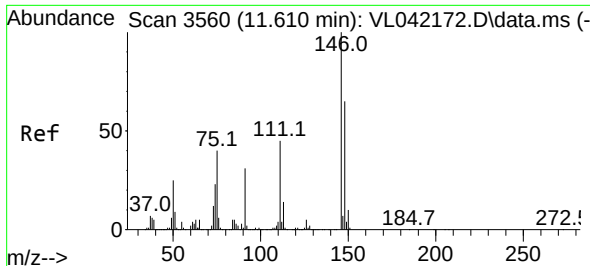
Tgt Ion:120 Resp: 1995
Ion Ratio Lower Upper
120 100
91 445.5 376.9 565.3



#65
tert-Butylbenzene
Concen: 0.039 ppbv
RT: 11.552 min Scan# 3542
Delta R.T. 0.023 min
Lab File: VL042235.D
Acq: 07 Apr 2025 14:51

Tgt Ion:119 Resp: 3723
Ion Ratio Lower Upper
119 100
91 138.4 66.0 99.0#
134 0.0 16.7 25.1#

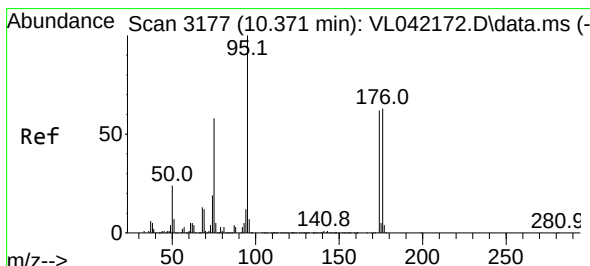
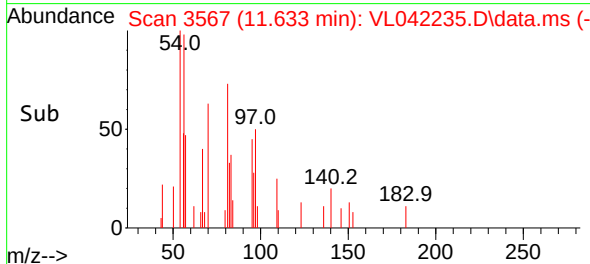
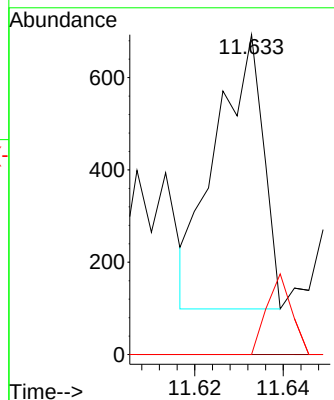
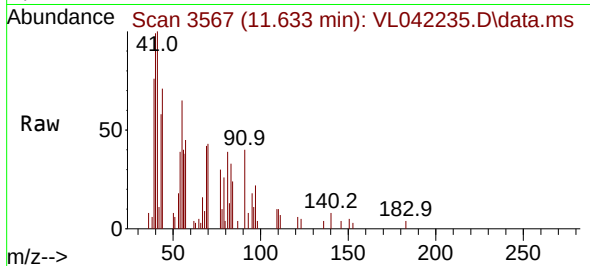




#66
Benzyl Chloride
Concen: 0.043 ppbv
RT: 11.633 min Scan# 3184
Delta R.T. 0.023 min
Lab File: VL042235.D
Acq: 07 Apr 2025 14:51

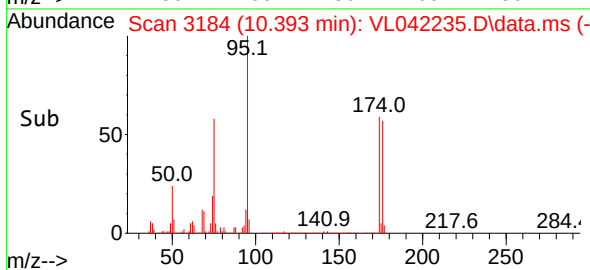
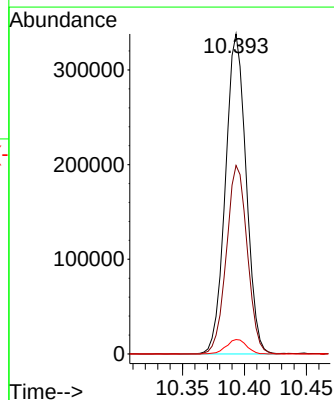
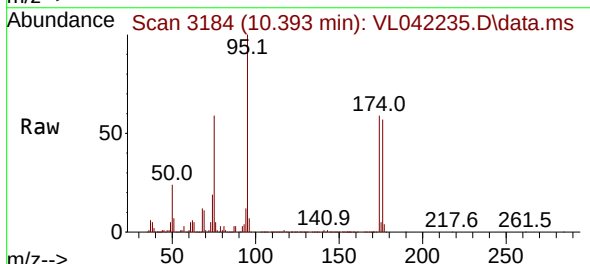
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B10-4-04012025

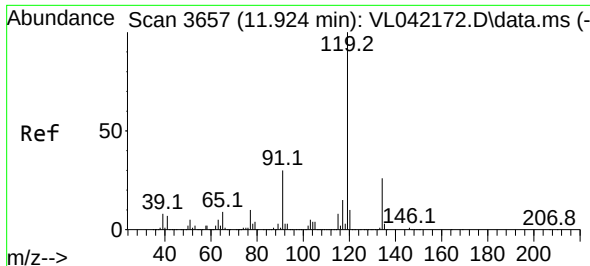
Tgt Ion: 91 Resp: 441
Ion Ratio Lower Upper
91 100
126 0.0 13.8 20.6#
128 15.4 4.5 6.7#



#68
1-Bromo-4-Fluorobenzene
Concen: 9.805 ppbv
RT: 10.393 min Scan# 3184
Delta R.T. 0.023 min
Lab File: VL042235.D
Acq: 07 Apr 2025 14:51

Tgt Ion: 95 Resp: 392922
Ion Ratio Lower Upper
95 100
174 59.8 50.6 76.0
175 4.5 3.8 5.6

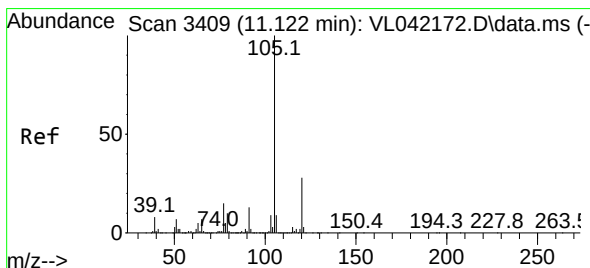
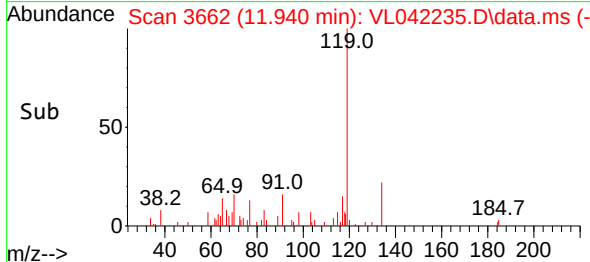
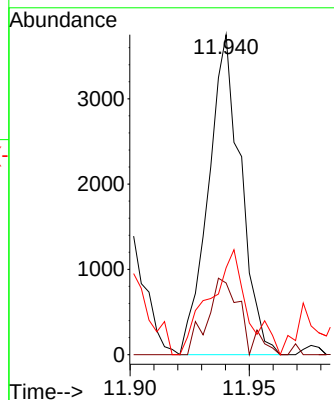
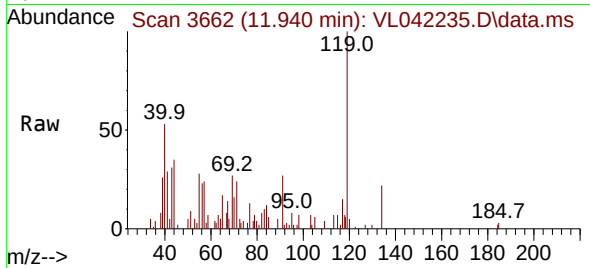




#69
 p-Isopropyltoluene
 Concen: 0.031 ppbv
 RT: 11.940 min Scan# 3662
 Delta R.T. 0.016 min
 Lab File: VL042235.D
 Acq: 07 Apr 2025 14:51

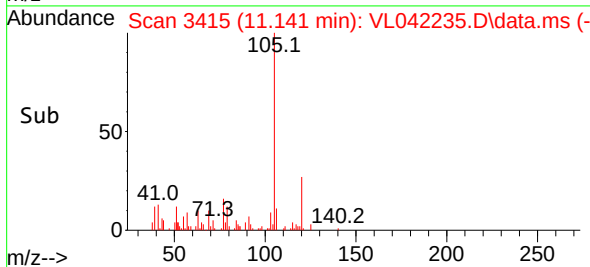
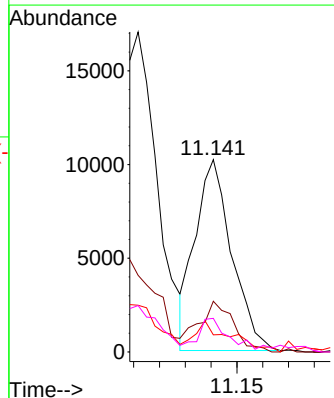
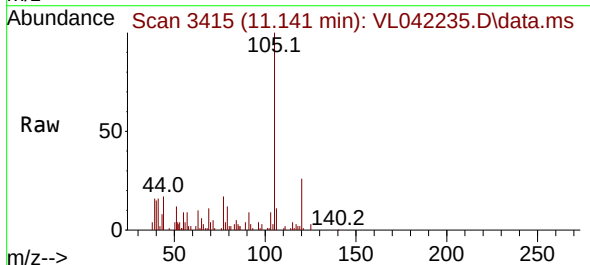
Instrument :
 MSVOA_L
 ClientSampleId :
 SSSG-B10-4-04012025

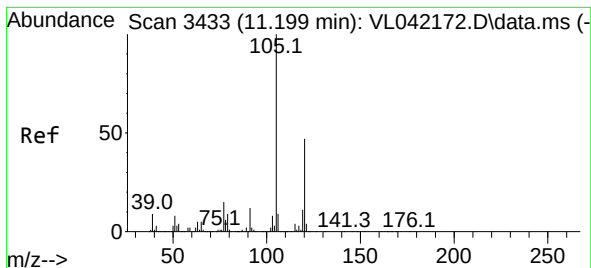
Tgt Ion:119 Resp: 3553
 Ion Ratio Lower Upper
 119 100
 134 25.8 20.4 30.6
 91 37.1 23.7 35.5#



#72
 4-Ethyltoluene
 Concen: 0.116 ppbv
 RT: 11.141 min Scan# 3415
 Delta R.T. 0.019 min
 Lab File: VL042235.D
 Acq: 07 Apr 2025 14:51

Tgt Ion:105 Resp: 10060
 Ion Ratio Lower Upper
 105 100
 120 0.0 23.4 35.0#
 91 15.9 10.3 15.5#
 77 18.2 11.4 17.2#





#73

1,3,5-Trimethylbenzene

Concen: 0.093 ppbv

RT: 11.215 min Scan# 3433

Delta R.T. 0.016 min

Lab File: VL042235.D

Acq: 07 Apr 2025 14:51

Instrument :

MSVOA_L

ClientSampleId :

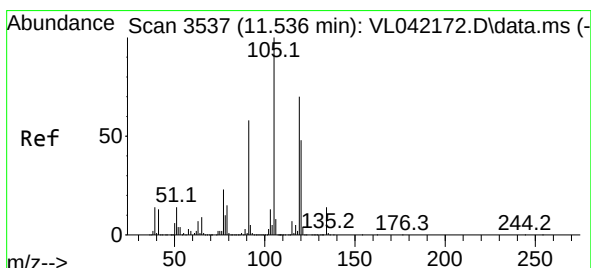
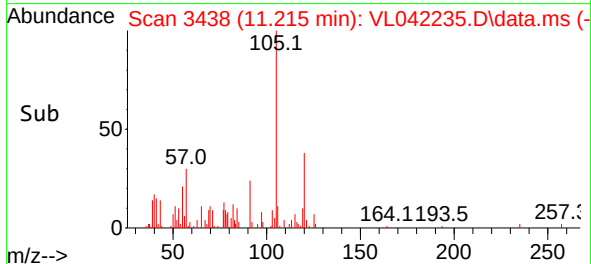
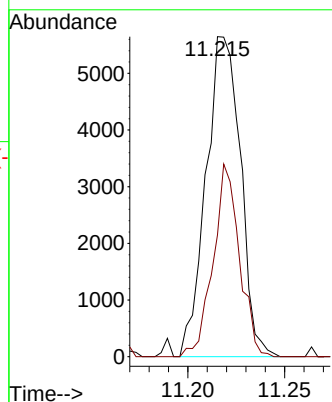
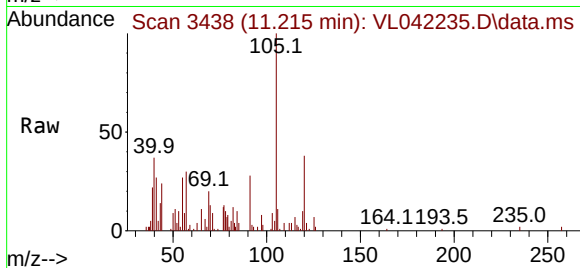
SSSG-B10-4-04012025

Tgt Ion:105 Resp: 7009

Ion Ratio Lower Upper

105 100

120 38.0 37.4 56.0



#74

1,2,4-Trimethylbenzene

Concen: 0.381 ppbv

RT: 11.552 min Scan# 3542

Delta R.T. 0.016 min

Lab File: VL042235.D

Acq: 07 Apr 2025 14:51

Tgt Ion:105 Resp: 33126

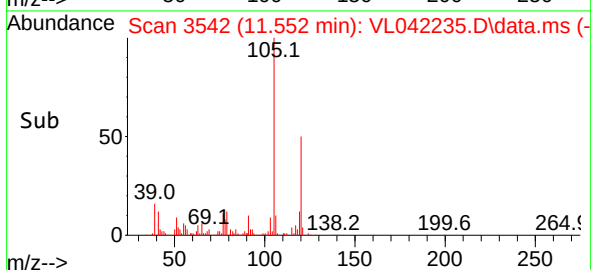
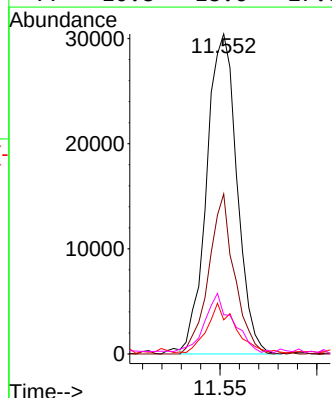
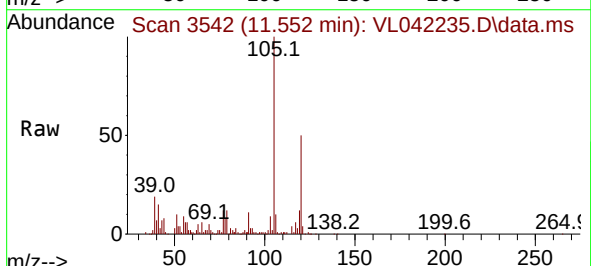
Ion Ratio Lower Upper

105 100

120 50.0 38.6 58.0

91 10.1 46.2 69.2#

77 10.8 18.6 27.8#



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040725\
 Data File : VL042236.D
 Acq On : 07 Apr 2025 17:44
 Operator : SY/MD
 Sample : Q1725-02DL 10X
 Misc : 400mL/MSVOA_L
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SSSG-B10-4-04012025DL

Quant Time: Apr 08 01:33:17 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri Mar 28 02:00:52 2025
 Response via : Initial Calibration

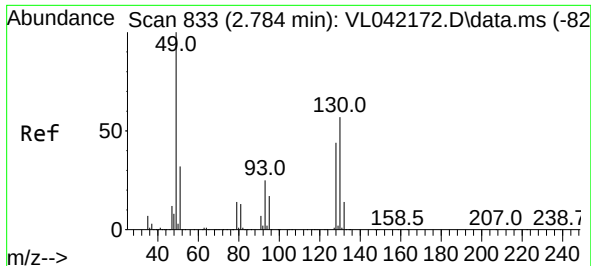
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	2.803	49	203982	10.000	ppbv	0.02
33) 1,4-Difluorobenzene	3.981	114	532301	10.000	ppbv	0.03
55) Chlorobenzene-d5	8.904	117	458285	10.000	ppbv	0.03
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.396	95	357544	9.500	ppbv	0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	95.000%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.502	85	1489	0.049	ppbv #	80
4) Chloromethane	1.538	50	400	0.032	ppbv #	61
9) Propene	1.492	41	3786	0.268	ppbv	89
13) Ethanol	1.729	45	17823	13.369	ppbv #	27
15) Acetone	1.845	43	96697	3.390	ppbv	94
16) 1,3-Butadiene	1.628	39	2198	0.158	ppbv #	11
17) tert-Butyl alcohol	2.055	59	1997	0.056	ppbv #	67
18) 1,1-Dichloroethene	2.042	96	1841	0.163	ppbv	99
19) Isopropyl Alcohol	1.897	45	46008	2.858	ppbv	88
20) Methylene Chloride	2.072	84	2207	0.208	ppbv	94
23) Vinyl Acetate	2.483	43	632	0.051	ppbv #	81
26) Hexane	2.839	57	1499	0.052	ppbv #	1
29) Chloroform	2.865	83	1667671	39.844	ppbv	93
34) 2-Butanone	2.577	43	3813	0.099	ppbv	96
35) Carbon Tetrachloride	3.787	117	8468	0.204	ppbv	97
39) 1,2-Dichloropropane	3.981	63	135654	7.059	ppbv #	23
52) Tetrachloroethene	8.244	164	3651	0.174	ppbv	85
74) 1,2,4-Trimethylbenzene	11.549	105	2806	0.034	ppbv #	65

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

Quant Time: Apr 08 01:33:17 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Mar 28 02:00:52 2025
Response via : Initial Calibration

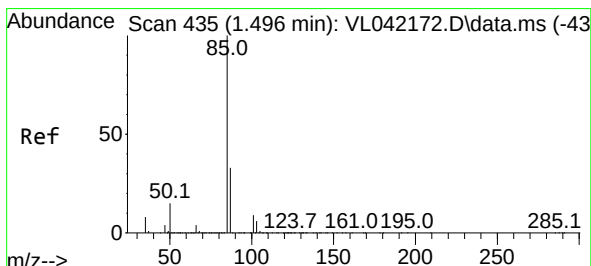
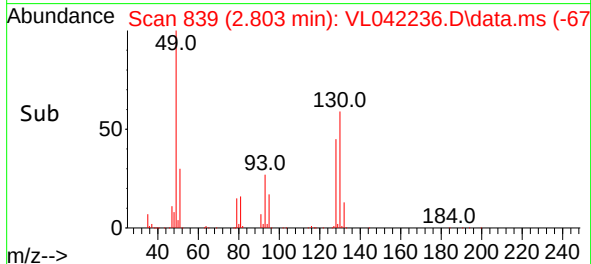
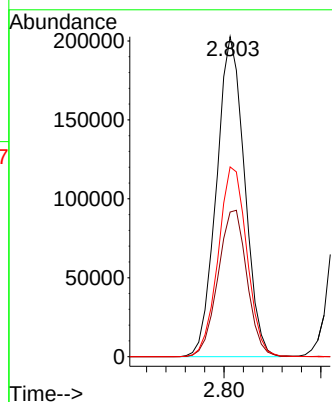
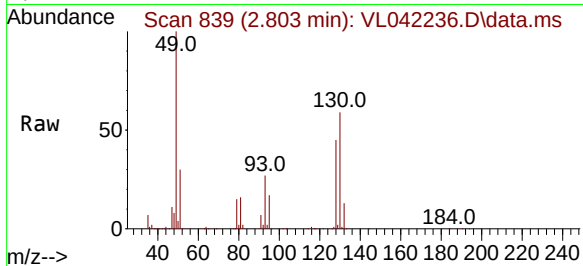




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.803 min Scan# 81
Delta R.T. 0.019 min
Lab File: VL042236.D
Acq: 07 Apr 2025 17:44

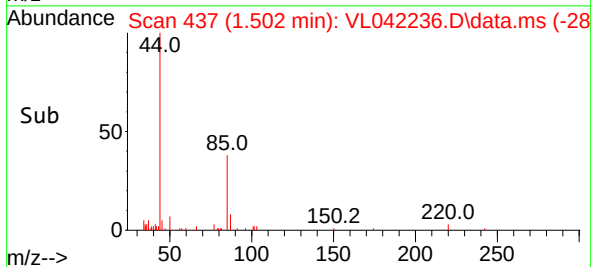
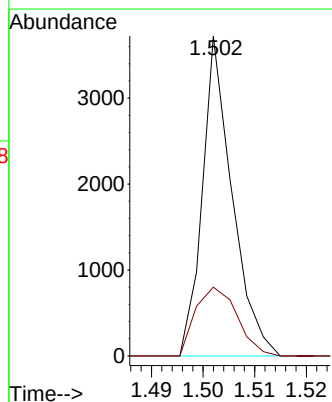
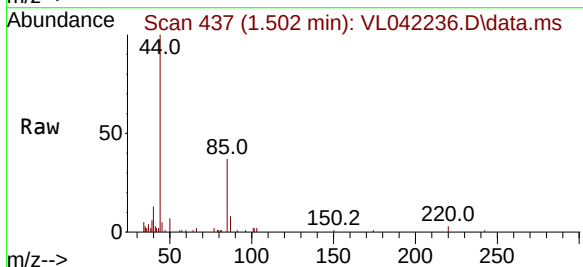
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B10-4-04012025DL

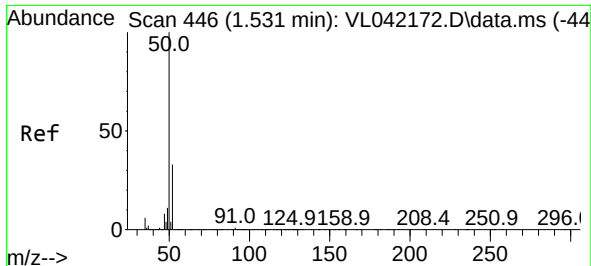
Tgt Ion: 49 Resp: 203982
Ion Ratio Lower Upper
49 100
128 47.3 22.9 68.5
130 60.7 28.8 86.4



#2
Dichlorodifluoromethane
Concen: 0.049 ppbv
RT: 1.502 min Scan# 437
Delta R.T. 0.006 min
Lab File: VL042236.D
Acq: 07 Apr 2025 17:44

Tgt Ion: 85 Resp: 1489
Ion Ratio Lower Upper
85 100
87 21.5 26.1 39.1#

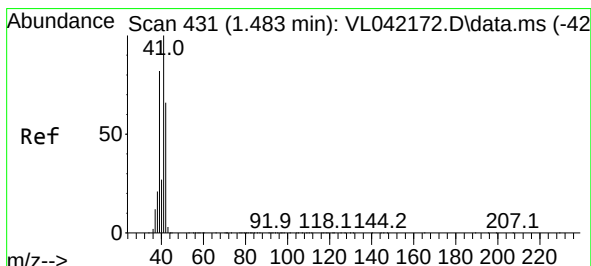
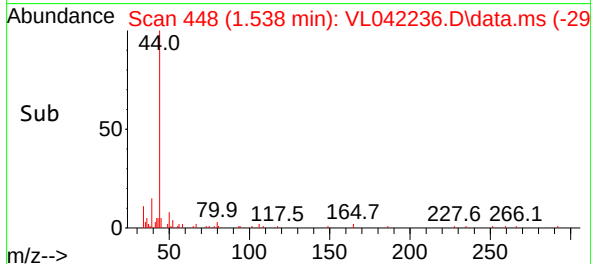
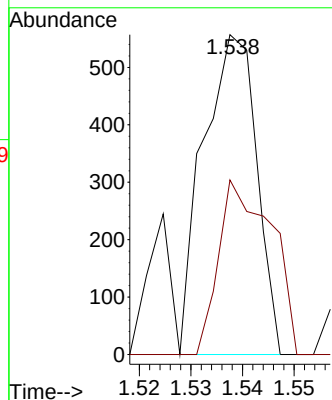
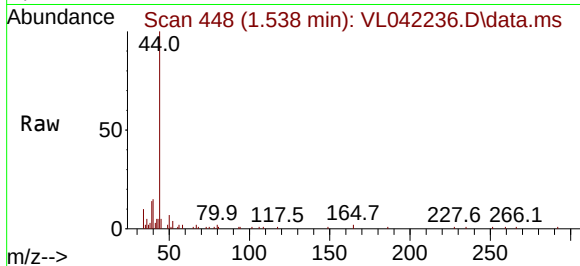




#4
Chloromethane
Concen: 0.032 ppbv
RT: 1.538 min Scan# 446
Delta R.T. 0.006 min
Lab File: VL042236.D
Acq: 07 Apr 2025 17:44

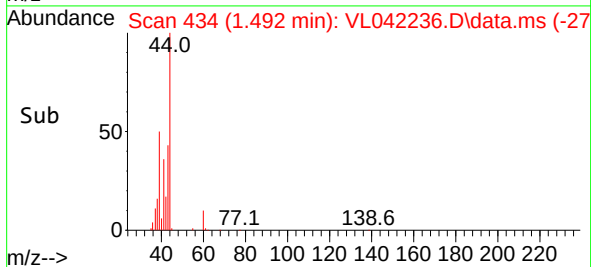
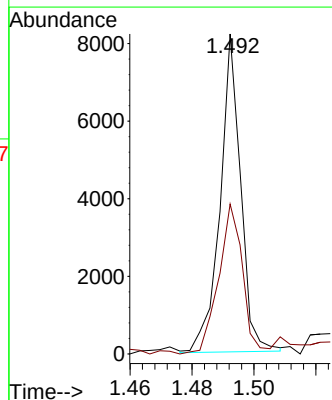
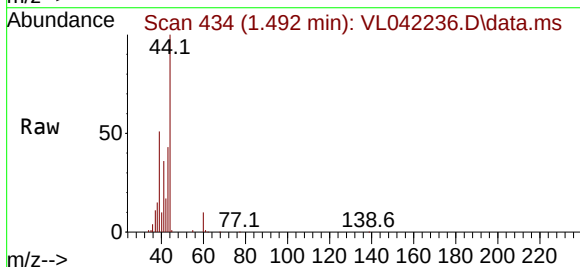
Instrument :
MSVOA_1
ClientSampleId :
SSSG-B10-4-04012025DL

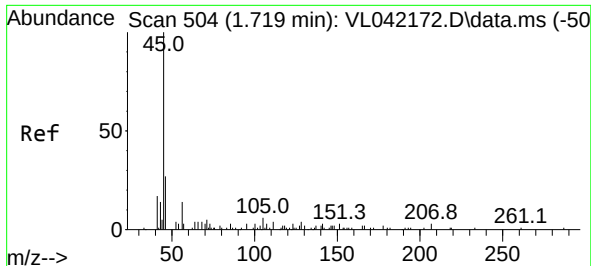
Tgt Ion: 50 Resp: 400
Ion Ratio Lower Upper
50 100
52 54.6 26.1 39.1#



#9
Propene
Concen: 0.268 ppbv
RT: 1.492 min Scan# 434
Delta R.T. 0.009 min
Lab File: VL042236.D
Acq: 07 Apr 2025 17:44

Tgt Ion: 41 Resp: 3786
Ion Ratio Lower Upper
41 100
42 60.4 55.4 83.2

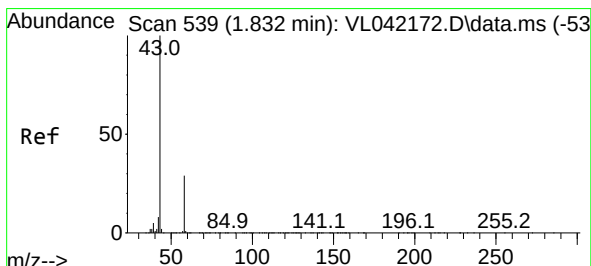
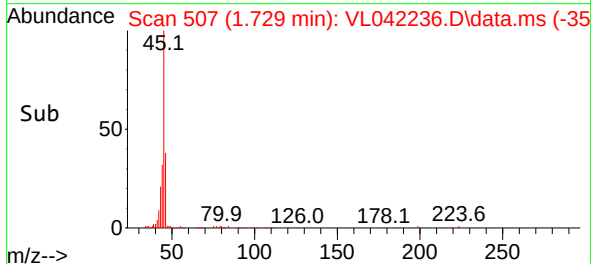
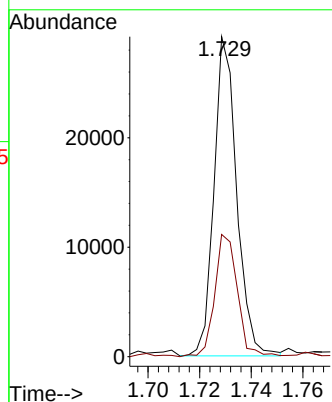
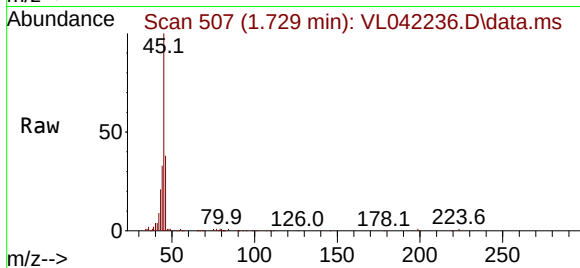




#13
Ethanol
Concen: 13.369 ppbv
RT: 1.729 min Scan# 504
Delta R.T. 0.009 min
Lab File: VL042236.D
Acq: 07 Apr 2025 17:44

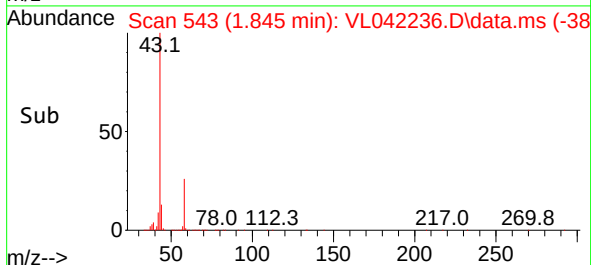
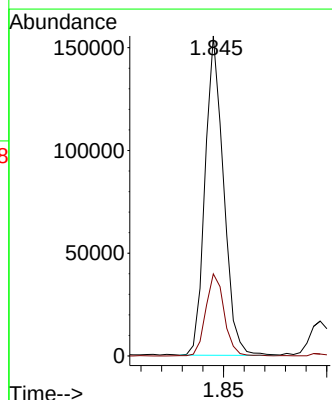
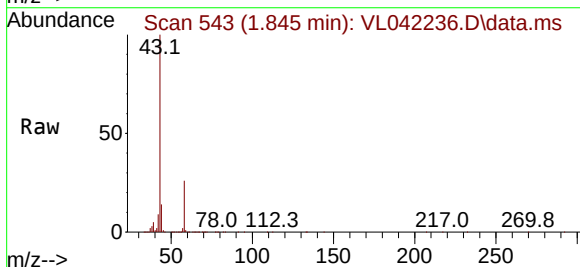
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B10-4-04012025DL

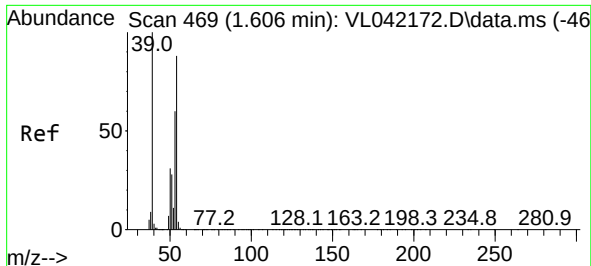
Tgt Ion: 45 Resp: 17823
Ion Ratio Lower Upper
45 100
46 0.0 20.2 80.8#



#15
Acetone
Concen: 3.390 ppbv
RT: 1.845 min Scan# 543
Delta R.T. 0.013 min
Lab File: VL042236.D
Acq: 07 Apr 2025 17:44

Tgt Ion: 43 Resp: 96697
Ion Ratio Lower Upper
43 100
58 25.7 23.2 34.8

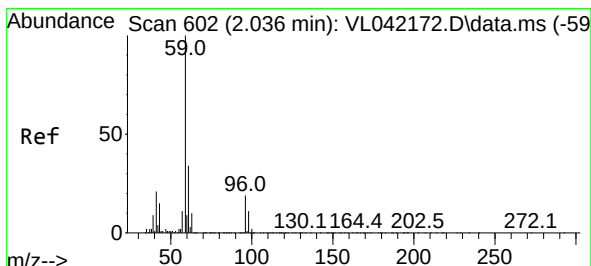
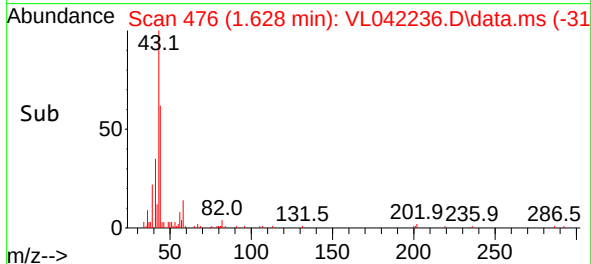
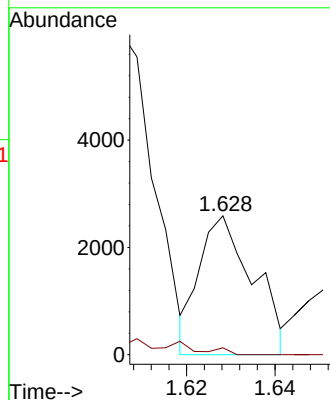
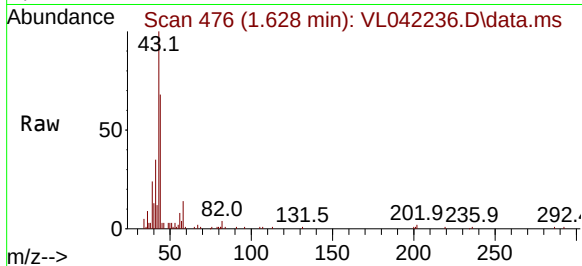




#16
1,3-Butadiene
Concen: 0.158 ppbv
RT: 1.628 min Scan# 41
Delta R.T. 0.022 min
Lab File: VL042236.D
Acq: 07 Apr 2025 17:44

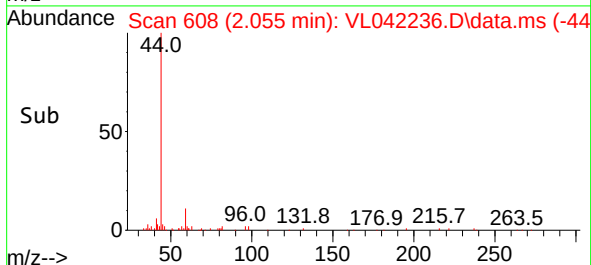
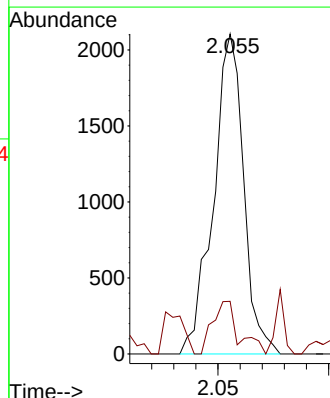
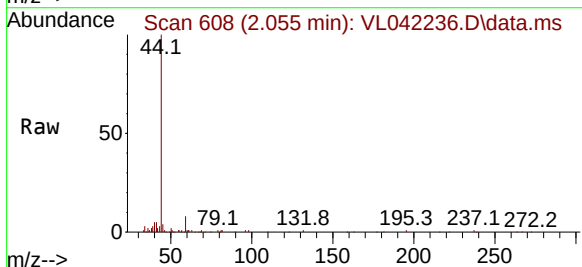
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B10-4-04012025DL

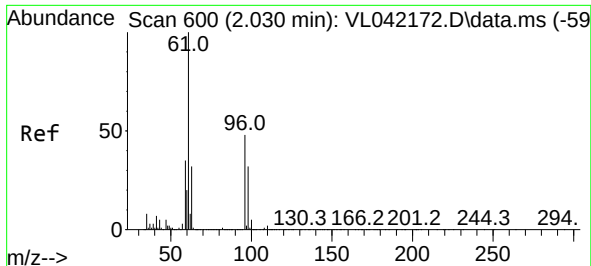
Tgt Ion: 39 Resp: 2198
Ion Ratio Lower Upper
39 100
54 0.0 60.7 91.1#



#17
tert-Butyl alcohol
Concen: 0.056 ppbv
RT: 2.055 min Scan# 608
Delta R.T. 0.019 min
Lab File: VL042236.D
Acq: 07 Apr 2025 17:44

Tgt Ion: 59 Resp: 1997
Ion Ratio Lower Upper
59 100
57 23.6 8.9 13.3#

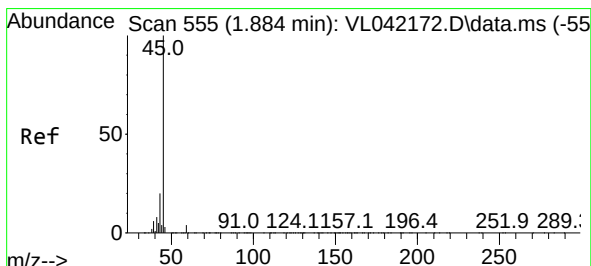
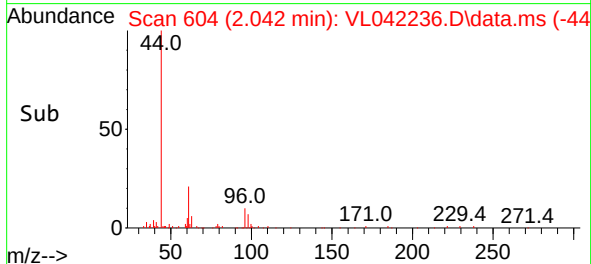
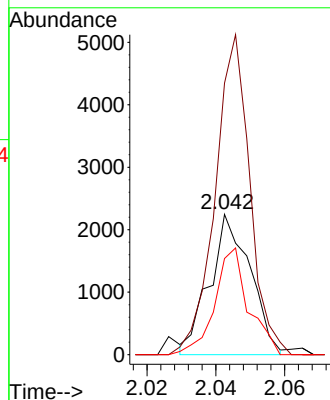
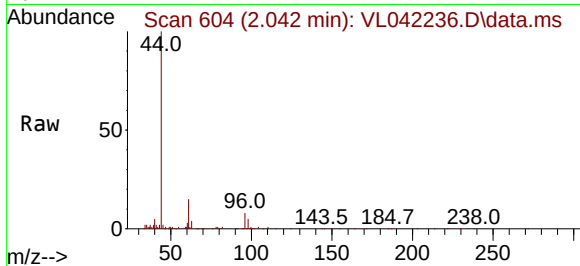




#18
 1,1-Dichloroethene
 Concen: 0.163 ppbv
 RT: 2.042 min Scan# 604
 Delta R.T. 0.013 min
 Lab File: VL042236.D
 Acq: 07 Apr 2025 17:44

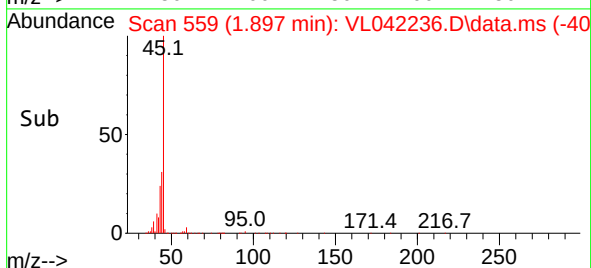
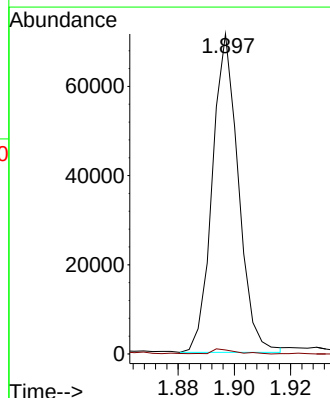
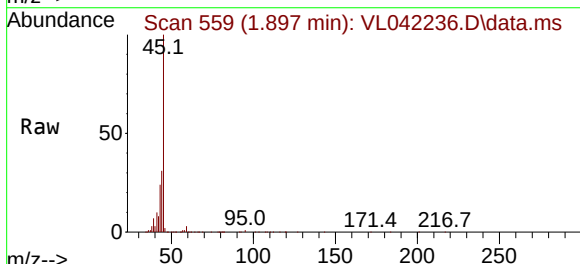
Instrument :
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 ClientSampleId :
 SSSG-B10-4-04012025DL

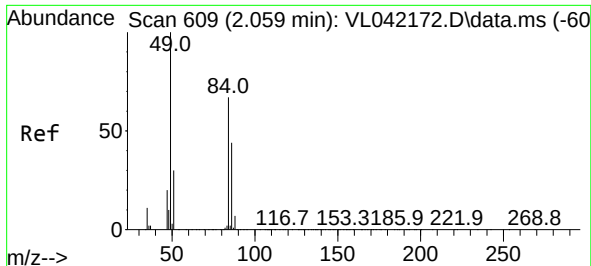
Tgt Ion: 96 Resp: 1841
 Ion Ratio Lower Upper
 96 100
 61 209.1 167.6 251.4
 98 70.8 53.5 80.3



#19
 Isopropyl Alcohol
 Concen: 2.858 ppbv
 RT: 1.897 min Scan# 559
 Delta R.T. 0.013 min
 Lab File: VL042236.D
 Acq: 07 Apr 2025 17:44

Tgt Ion: 45 Resp: 46008
 Ion Ratio Lower Upper
 45 100
 58 54.2 36.9 55.3

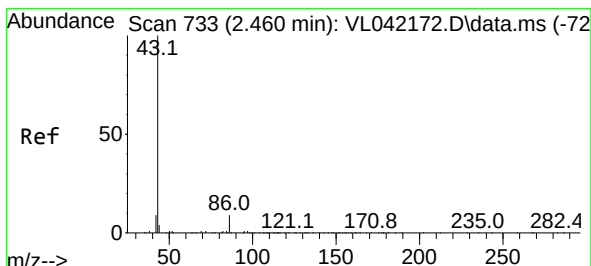
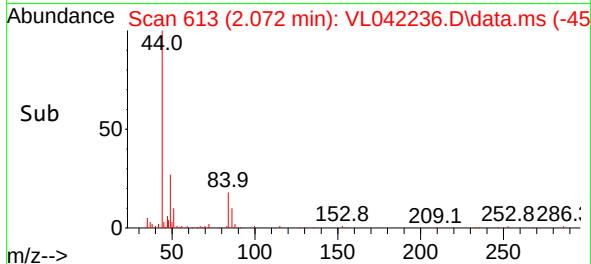
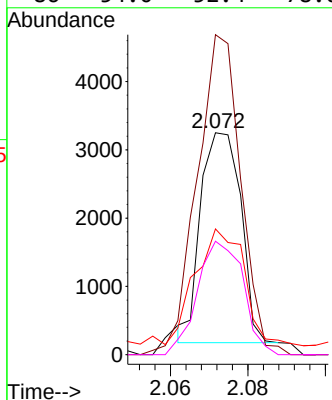
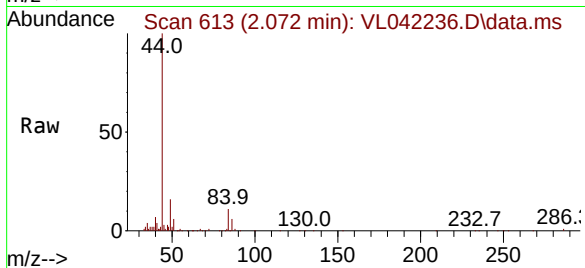




#20
Methylene Chloride
Concen: 0.208 ppbv
RT: 2.072 min Scan# 61
Delta R.T. 0.013 min
Lab File: VL042236.D
Acq: 07 Apr 2025 17:44

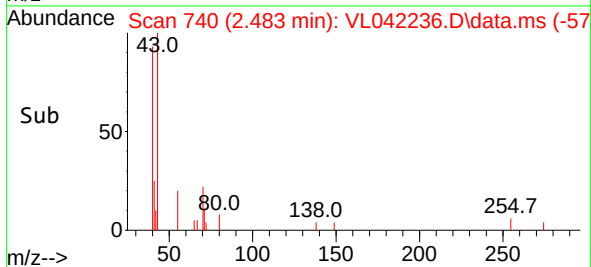
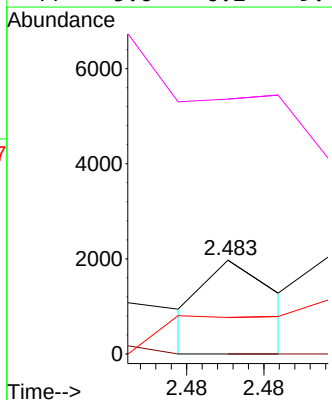
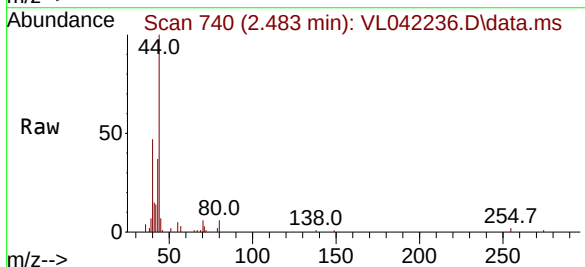
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B10-4-04012025DL

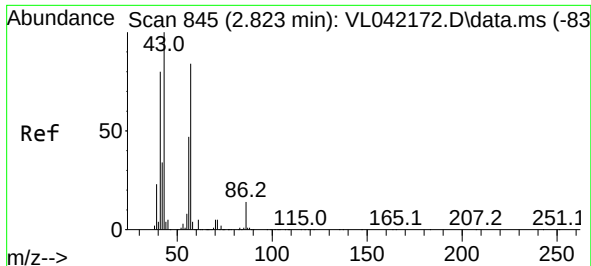
Tgt Ion:	84	Resp:	2207
Ion	Ratio	Lower	Upper
84	100		
49	148.4	120.2	180.4
51	53.0	37.4	56.0
86	54.0	52.4	78.6



#23
Vinyl Acetate
Concen: 0.051 ppbv
RT: 2.483 min Scan# 740
Delta R.T. 0.022 min
Lab File: VL042236.D
Acq: 07 Apr 2025 17:44

Tgt Ion:	43	Resp:	632
Ion	Ratio	Lower	Upper
43	100		
86	0.0	5.5	8.3#
42	0.0	8.6	13.0#
44	5.6	6.2	9.4#

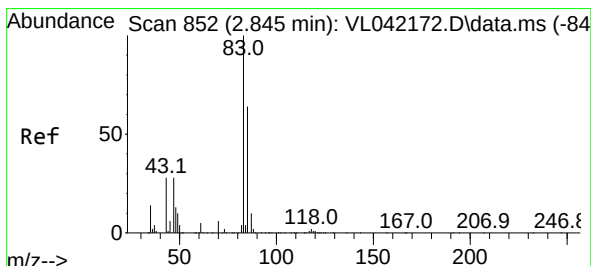
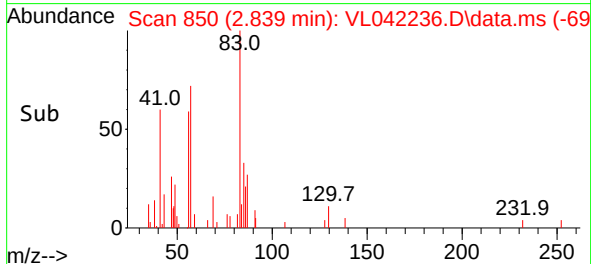
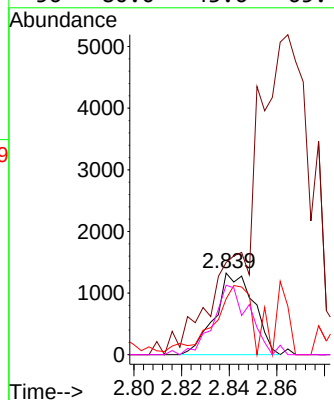
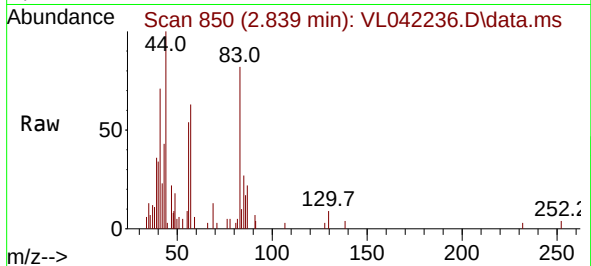




#26
Hexane
Concen: 0.052 ppbv
RT: 2.839 min Scan# 81
Delta R.T. 0.016 min
Lab File: VL042236.D
Acq: 07 Apr 2025 17:44

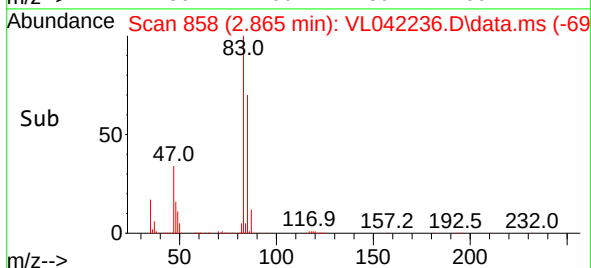
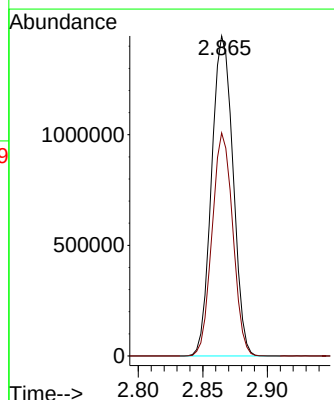
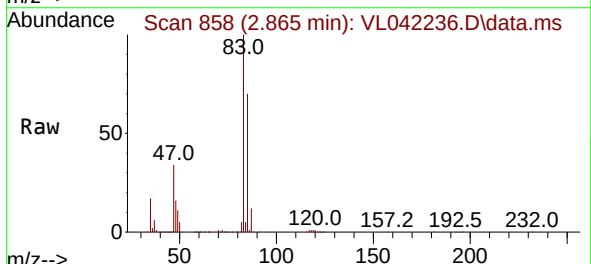
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B10-4-04012025DL

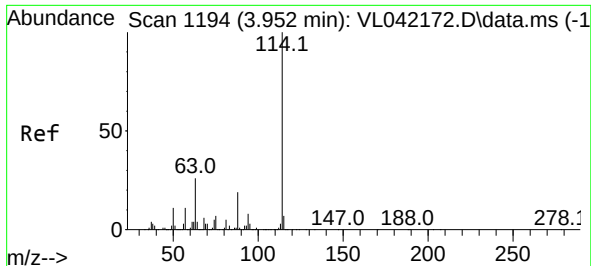
Tgt Ion: 57 Resp: 1499
Ion Ratio Lower Upper
57 100
41 0.0 76.6 114.8#
43 0.0 207.8 311.8#
56 80.0 43.6 65.4#



#29
Chloroform
Concen: 39.844 ppbv
RT: 2.865 min Scan# 858
Delta R.T. 0.019 min
Lab File: VL042236.D
Acq: 07 Apr 2025 17:44

Tgt Ion: 83 Resp: 1667671
Ion Ratio Lower Upper
83 100
85 69.7 51.4 77.2





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.981 min Scan# 1194

Delta R.T. 0.029 min

Lab File: VL042236.D

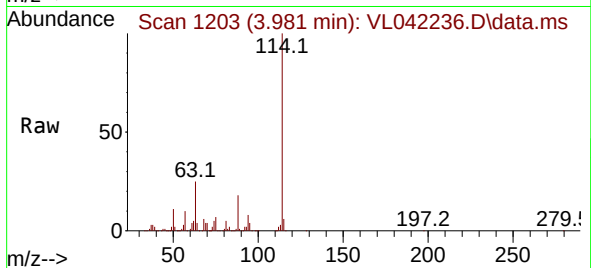
Acq: 07 Apr 2025 17:44

Instrument :

MSVOA_L

ClientSampleId :

SSSG-B10-4-04012025DL



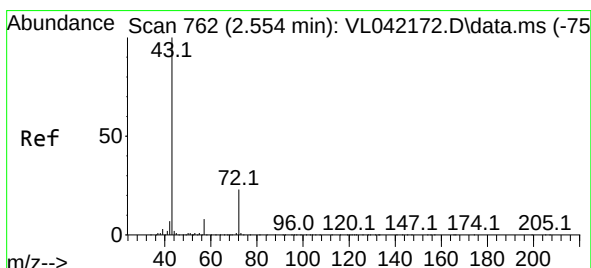
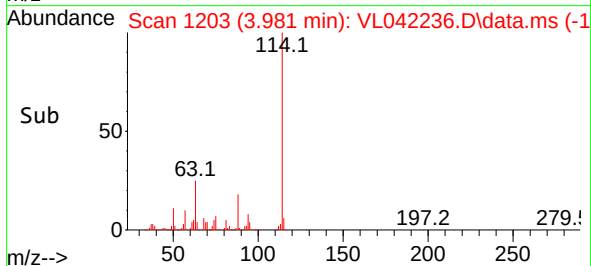
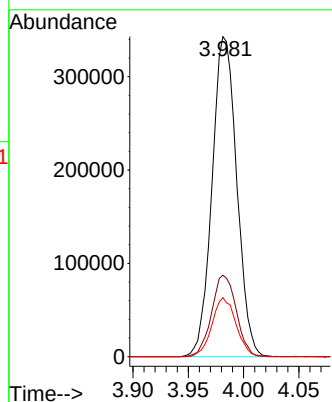
Tgt Ion:114 Resp: 532301

Ion Ratio Lower Upper

114 100

63 25.5 20.7 31.1

88 17.9 15.0 22.4



#34

2-Butanone

Concen: 0.099 ppbv

RT: 2.577 min Scan# 769

Delta R.T. 0.022 min

Lab File: VL042236.D

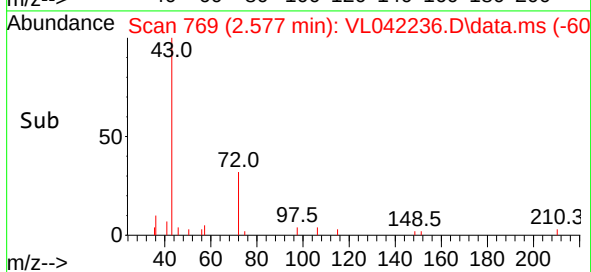
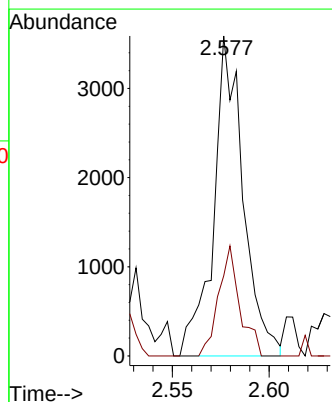
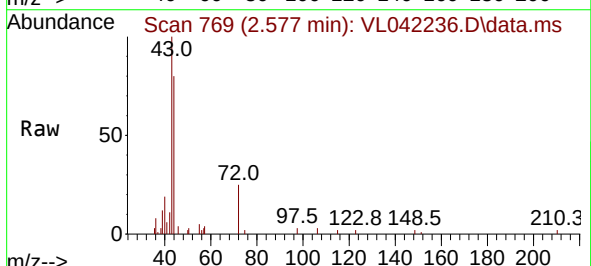
Acq: 07 Apr 2025 17:44

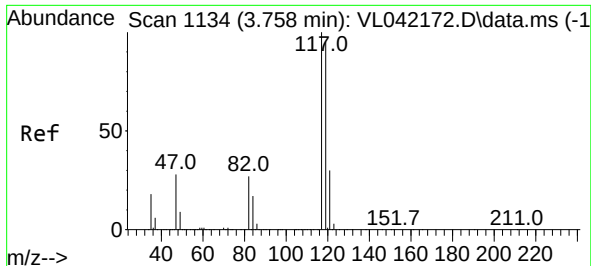
Tgt Ion: 43 Resp: 3813

Ion Ratio Lower Upper

43 100

72 24.7 18.2 27.2

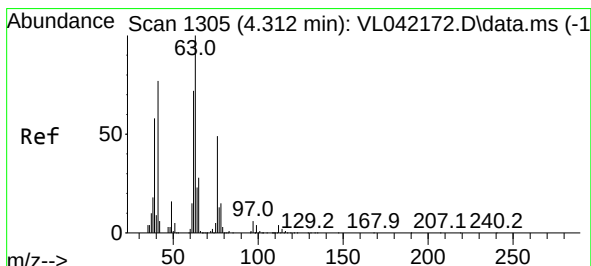
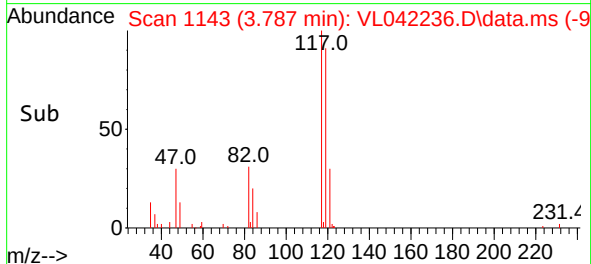
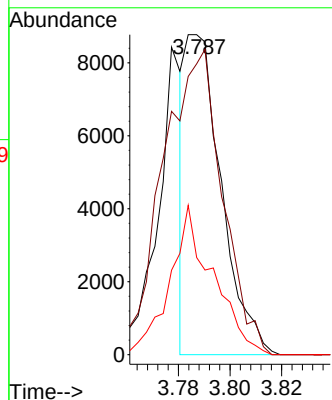
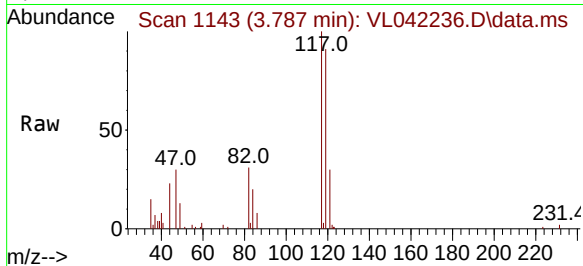




#35
Carbon Tetrachloride
Concen: 0.204 ppbv
RT: 3.787 min Scan# 1134
Delta R.T. 0.029 min
Lab File: VL042236.D
Acq: 07 Apr 2025 17:44

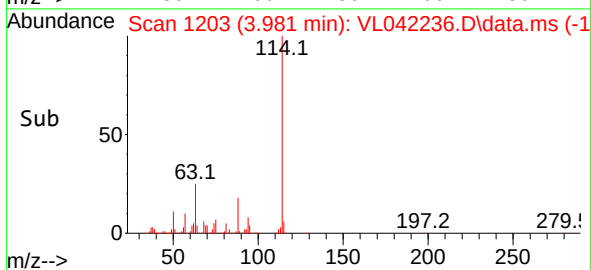
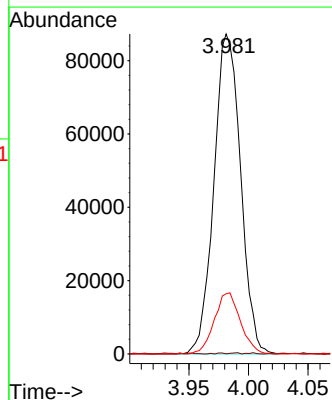
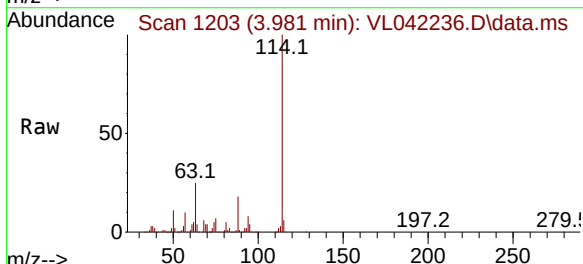
Instrument : MSVOA_L
ClientSampleId : SSSG-B10-4-04012025DL

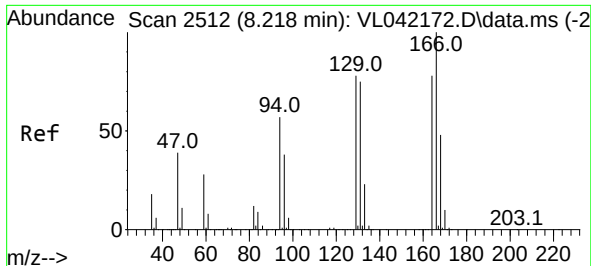
Tgt Ion:117 Resp: 8468
Ion Ratio Lower Upper
117 100
119 90.9 76.2 114.2
121 30.4 24.2 36.4



#39
1,2-Dichloropropane
Concen: 7.059 ppbv
RT: 3.981 min Scan# 1203
Delta R.T. -0.330 min
Lab File: VL042236.D
Acq: 07 Apr 2025 17:44

Tgt Ion: 63 Resp: 135654
Ion Ratio Lower Upper
63 100
41 0.0 61.7 92.5#
62 18.7 57.6 86.4#



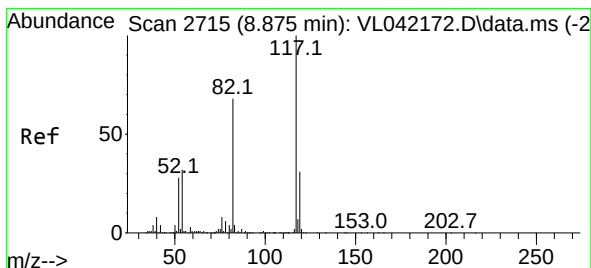
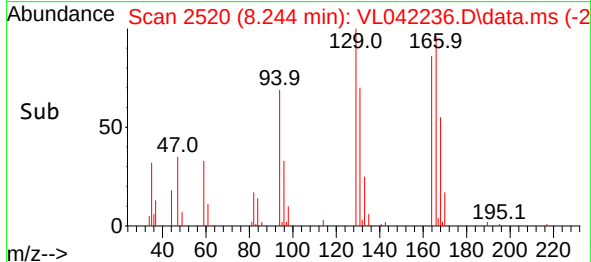
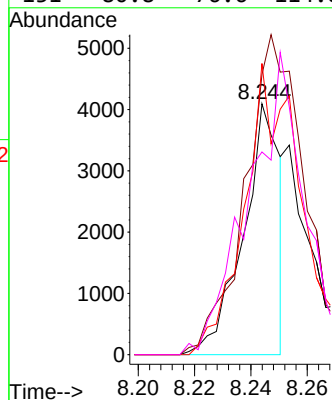
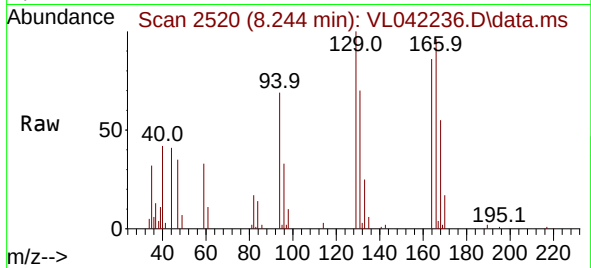


#52
Tetrachloroethene
Concen: 0.174 ppbv
RT: 8.244 min Scan# 21
Delta R.T. 0.026 min
Lab File: VL042236.D
Acq: 07 Apr 2025 17:44

Instrument :
MSVOA_L
ClientSampleId :
SSSG-B10-4-04012025DL

Tgt Ion:164 Resp: 3651

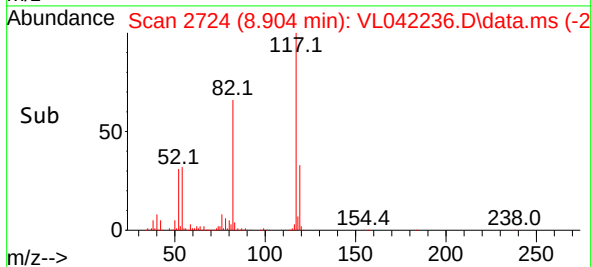
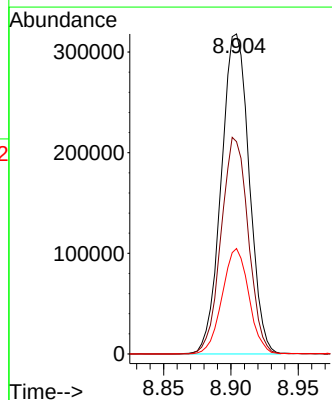
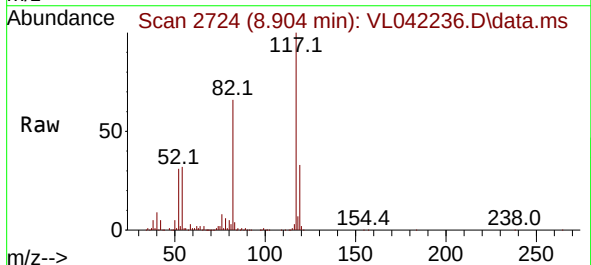
Ion	Ratio	Lower	Upper
164	100		
166	111.7	102.5	153.7
129	116.1	79.8	119.8
131	80.8	76.6	114.8

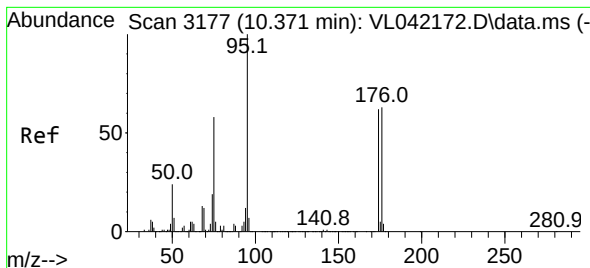


#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.904 min Scan# 2724
Delta R.T. 0.029 min
Lab File: VL042236.D
Acq: 07 Apr 2025 17:44

Tgt Ion:117 Resp: 458285

Ion	Ratio	Lower	Upper
117	100		
82	65.9	55.8	83.6
119	31.7	25.5	38.3





#68

1-Bromo-4-Fluorobenzene

Concen: 9.500 ppbv

RT: 10.396 min Scan# 3177

Delta R.T. 0.026 min

Lab File: VL042236.D

Acq: 07 Apr 2025 17:44

Instrument :

MSVOA_L

ClientSampleId :

SSSG-B10-4-04012025DL

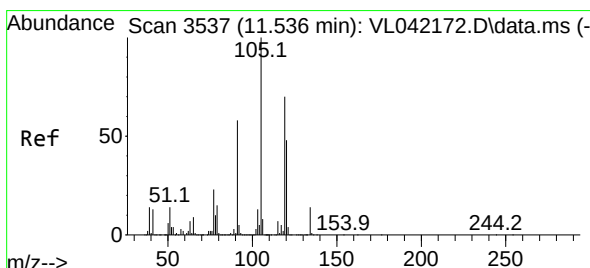
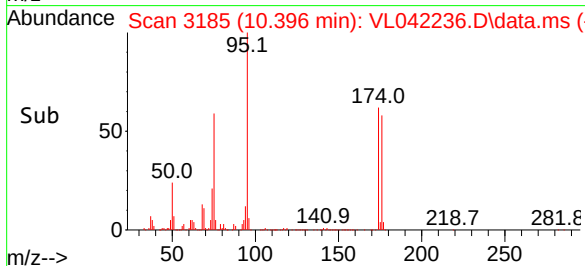
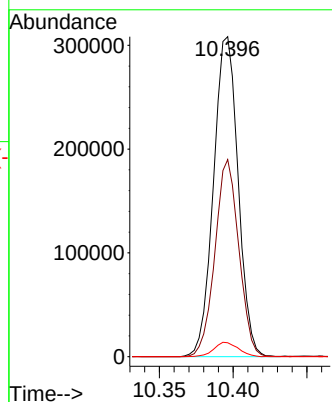
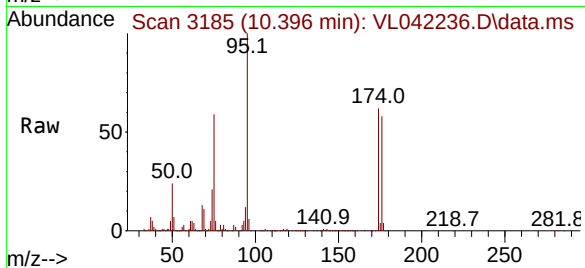
Tgt Ion: 95 Resp: 357544

Ion Ratio Lower Upper

95 100

174 60.1 50.6 76.0

175 4.5 3.8 5.6



#74

1,2,4-Trimethylbenzene

Concen: 0.034 ppbv

RT: 11.549 min Scan# 3541

Delta R.T. 0.013 min

Lab File: VL042236.D

Acq: 07 Apr 2025 17:44

Tgt Ion: 105 Resp: 2806

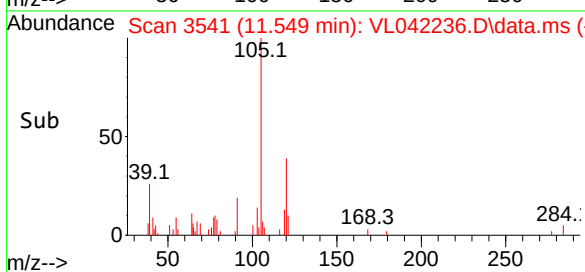
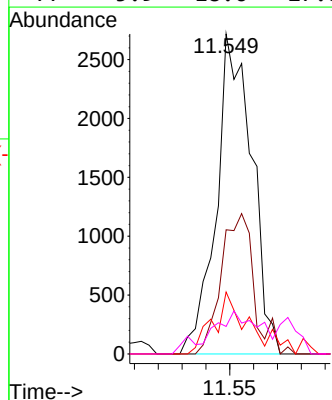
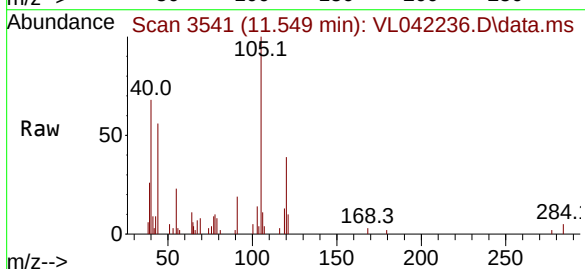
Ion Ratio Lower Upper

105 100

120 38.8 38.6 58.0

91 19.3 46.2 69.2#

77 5.9 18.6 27.8#



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040725\
 Data File : VL042239.D
 Acq On : 07 Apr 2025 19:17
 Operator : SY/MD
 Sample : Q1725-05DL 10X
 Misc : 400mL/MSVOA_L
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SSSG-B14-3-04012025DL

Quant Time: Apr 08 01:34:26 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri Mar 28 02:00:52 2025
 Response via : Initial Calibration

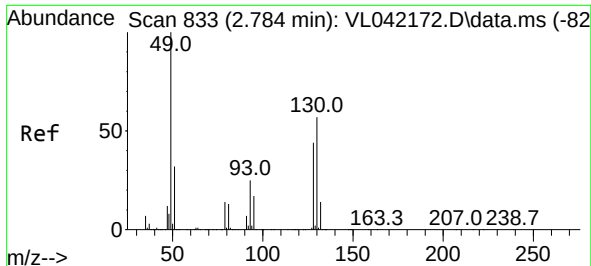
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	2.803	49	192644	10.000	ppbv	0.02
33) 1,4-Difluorobenzene	3.985	114	502203	10.000	ppbv	0.03
55) Chlorobenzene-d5	8.908	117	443302	10.000	ppbv	0.03
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.397	95	352454	9.682	ppbv	0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	96.800%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.506	85	1633	0.057	ppbv #	84
3) Chlorodifluoromethane	1.483	51	1352	0.047	ppbv #	86
4) Chloromethane	1.541	50	719	0.062	ppbv #	86
9) Propene	1.897	41	23661	1.777	ppbv	93
13) Ethanol	1.897	45	243073	193.062	ppbv #	31
15) Acetone	1.845	43	124436	4.619	ppbv	94
17) tert-Butyl alcohol	1.897	59	8436	0.251	ppbv	99
19) Isopropyl Alcohol	1.897	45	243073	15.990	ppbv #	32
20) Methylene Chloride	2.072	84	1777	0.177	ppbv #	59
23) Vinyl Acetate	2.470	43	2605	0.223	ppbv #	55
34) 2-Butanone	2.583	43	3350	0.092	ppbv	99
39) 1,2-Dichloropropane	3.985	63	132919	7.331	ppbv #	23
53) Toluene	6.972	91	2409	0.041	ppbv #	20
58) Ethyl Benzene	9.374	91	6567	0.083	ppbv #	82
59) m/p-Xylene	9.555	91	18879	0.300	ppbv	99
60) o-Xylene	9.986	91	4467	0.071	ppbv	98

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

Quant Time: Apr 08 01:34:26 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Mar 28 02:00:52 2025
Response via : Initial Calibration

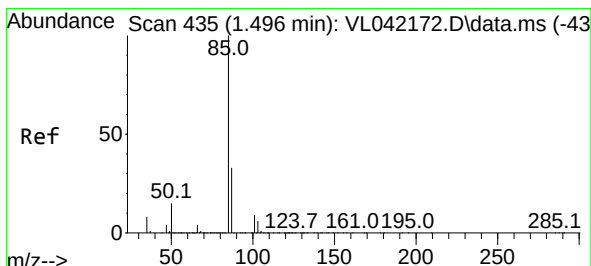
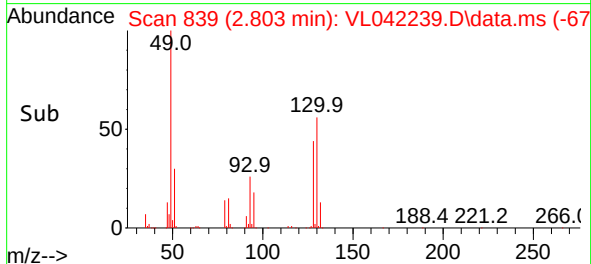
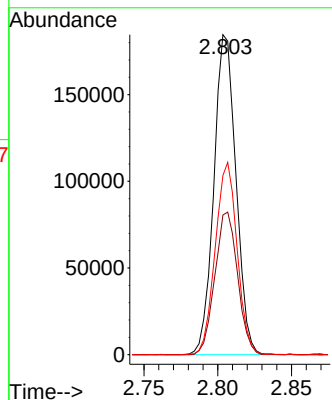
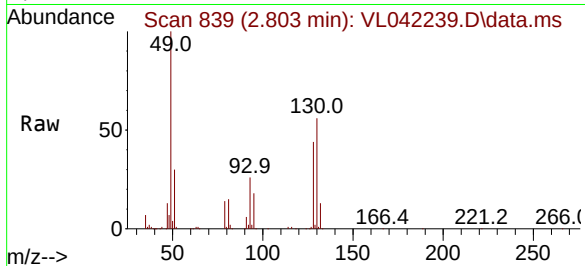




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.803 min Scan# 81
Delta R.T. 0.019 min
Lab File: VL042239.D
Acq: 07 Apr 2025 19:17

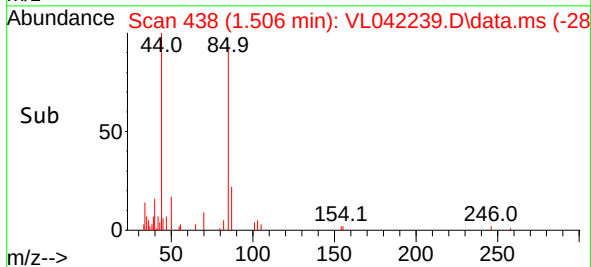
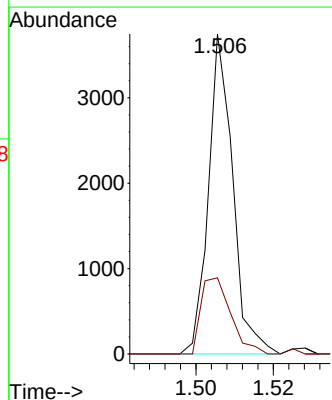
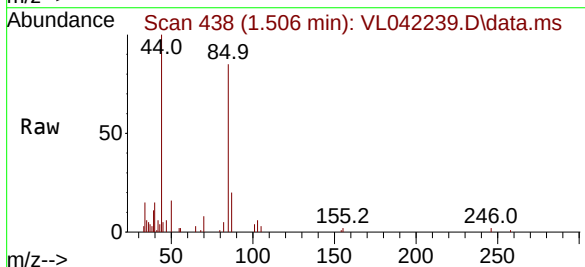
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B14-3-04012025DL

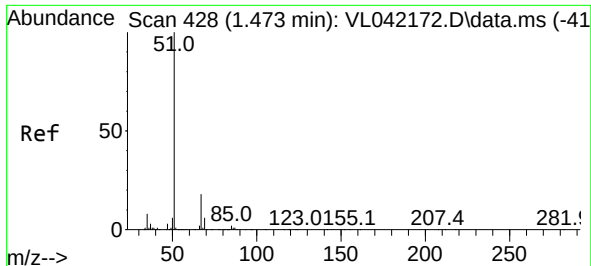
Tgt Ion: 49 Resp: 192644
Ion Ratio Lower Upper
49 100
128 45.8 22.9 68.5
130 59.4 28.8 86.4



#2
Dichlorodifluoromethane
Concen: 0.057 ppbv
RT: 1.506 min Scan# 438
Delta R.T. 0.010 min
Lab File: VL042239.D
Acq: 07 Apr 2025 19:17

Tgt Ion: 85 Resp: 1633
Ion Ratio Lower Upper
85 100
87 23.8 26.1 39.1#

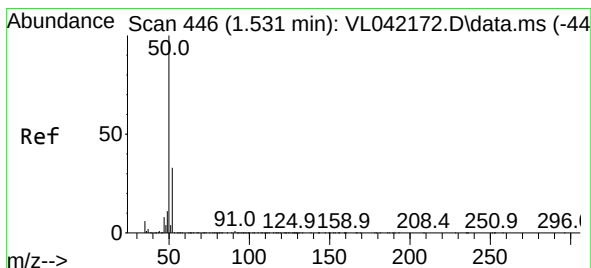
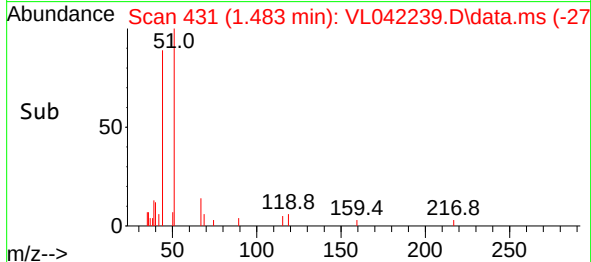
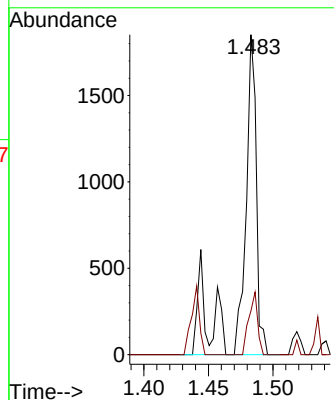
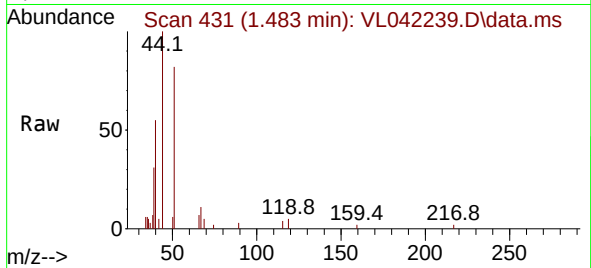




#3
Chlorodifluoromethane
Concen: 0.047 ppbv
RT: 1.483 min Scan# 41
Delta R.T. 0.010 min
Lab File: VL042239.D
Acq: 07 Apr 2025 19:17

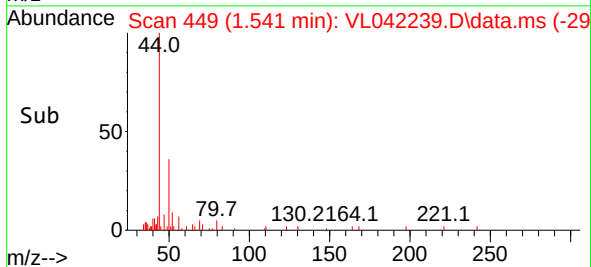
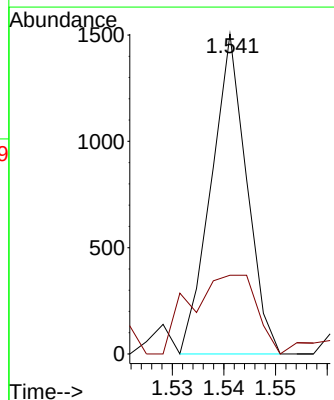
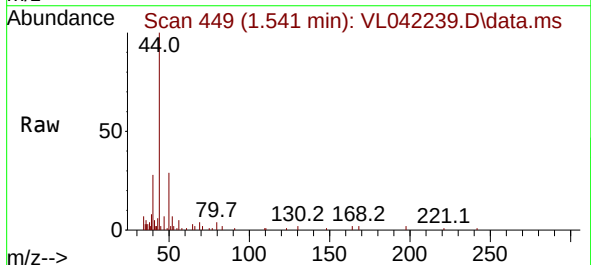
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B14-3-04012025DL

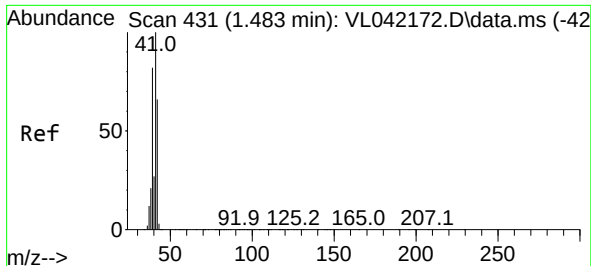
Tgt Ion: 51 Resp: 1352
Ion Ratio Lower Upper
51 100
67 12.6 15.0 22.6#



#4
Chloromethane
Concen: 0.062 ppbv
RT: 1.541 min Scan# 449
Delta R.T. 0.010 min
Lab File: VL042239.D
Acq: 07 Apr 2025 19:17

Tgt Ion: 50 Resp: 719
Ion Ratio Lower Upper
50 100
52 24.6 26.1 39.1#

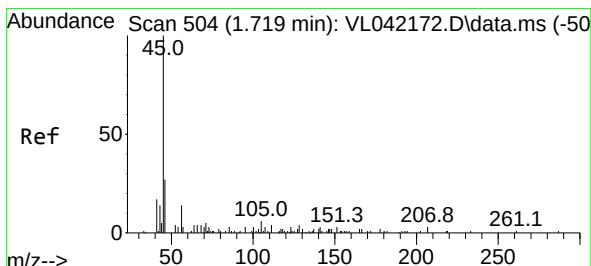
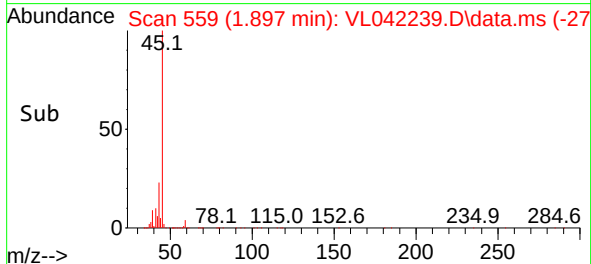
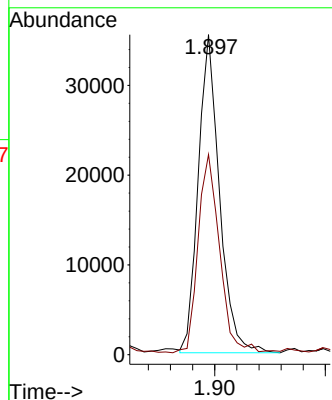
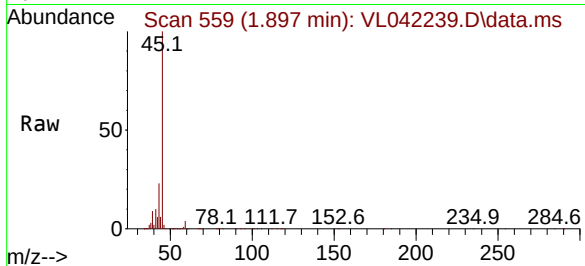




#9
Propene
Concen: 1.777 ppbv
RT: 1.897 min Scan# 51
Delta R.T. 0.414 min
Lab File: VL042239.D
Acq: 07 Apr 2025 19:17

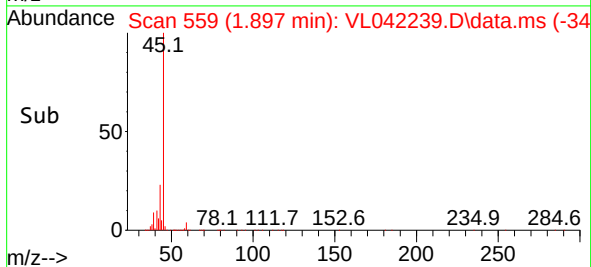
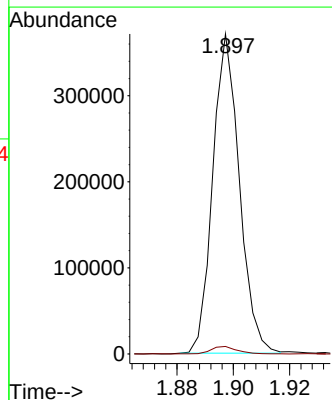
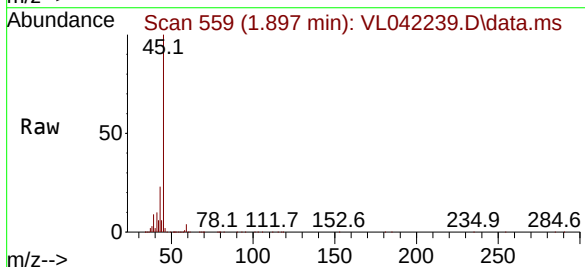
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B14-3-04012025DL

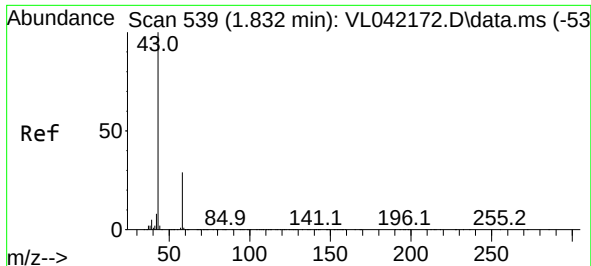
Tgt Ion: 41 Resp: 23661
Ion Ratio Lower Upper
41 100
42 63.4 55.4 83.2



#13
Ethanol
Concen: 193.062 ppbv
RT: 1.897 min Scan# 559
Delta R.T. 0.178 min
Lab File: VL042239.D
Acq: 07 Apr 2025 19:17

Tgt Ion: 45 Resp: 243073
Ion Ratio Lower Upper
45 100
46 2.6 20.2 80.8#





#15

Acetone

Concen: 4.619 ppbv

RT: 1.845 min Scan# 54

Delta R.T. 0.013 min

Lab File: VL042239.D

Acq: 07 Apr 2025 19:17

Instrument :

MSVOA_L

ClientSampleId :

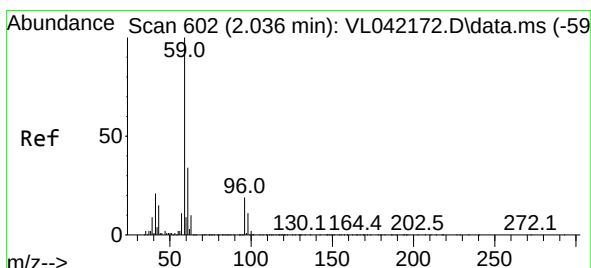
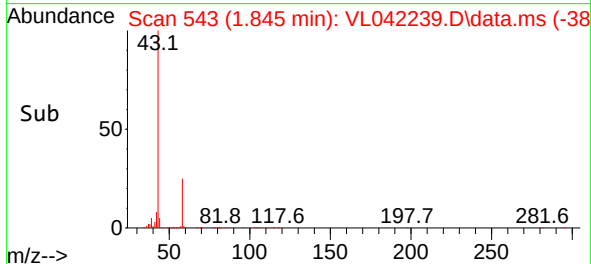
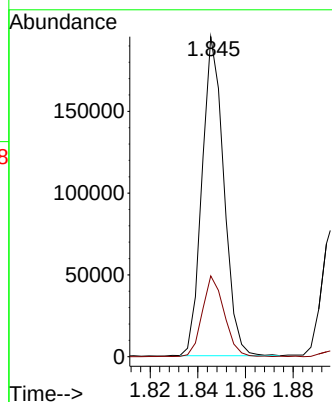
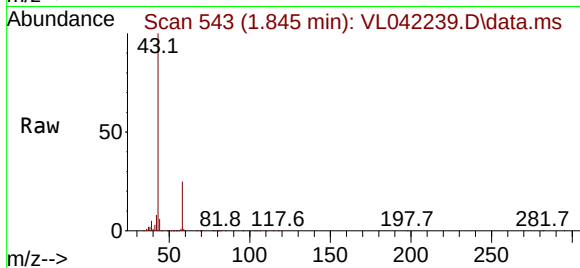
SSSG-B14-3-04012025DL

Tgt Ion: 43 Resp: 124436

Ion Ratio Lower Upper

43 100

58 25.7 23.2 34.8



#17

tert-Butyl alcohol

Concen: 0.251 ppbv

RT: 1.897 min Scan# 559

Delta R.T. -0.139 min

Lab File: VL042239.D

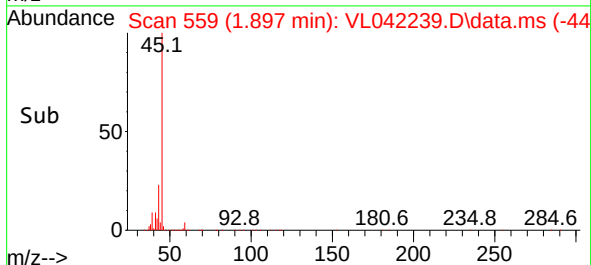
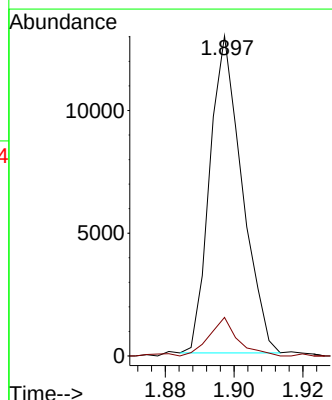
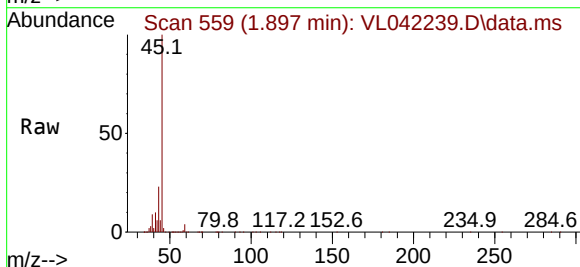
Acq: 07 Apr 2025 19:17

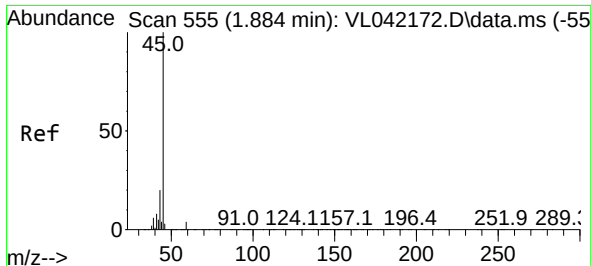
Tgt Ion: 59 Resp: 8436

Ion Ratio Lower Upper

59 100

57 11.4 8.9 13.3

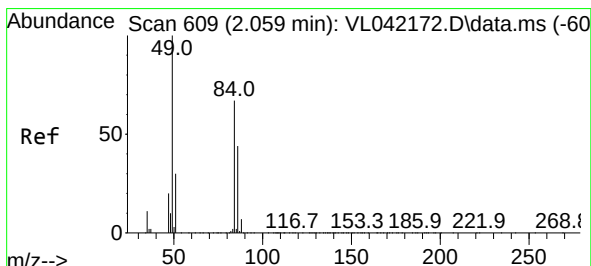
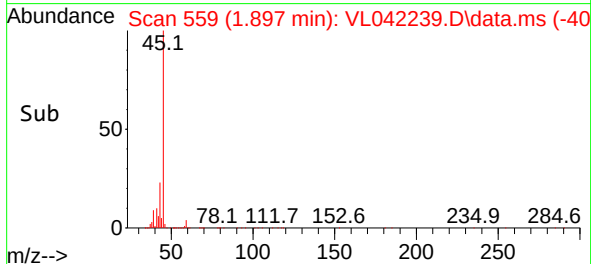
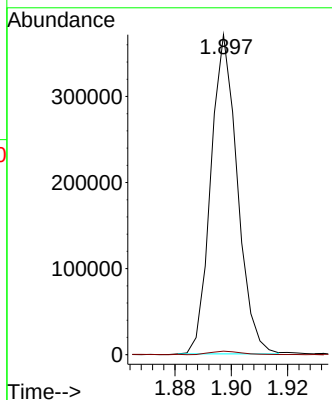
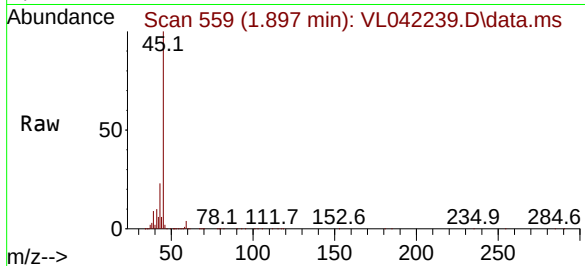




#19
Isopropyl Alcohol
Concen: 15.990 ppbv
RT: 1.897 min Scan# 511
Delta R.T. 0.013 min
Lab File: VL042239.D
Acq: 07 Apr 2025 19:17

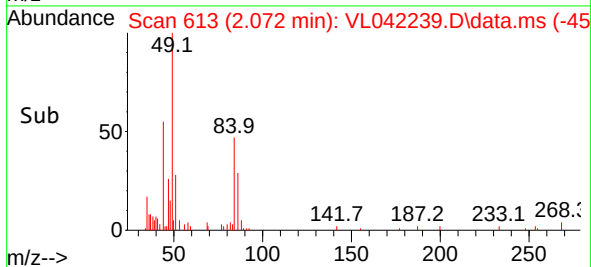
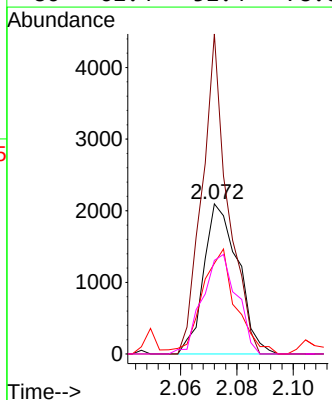
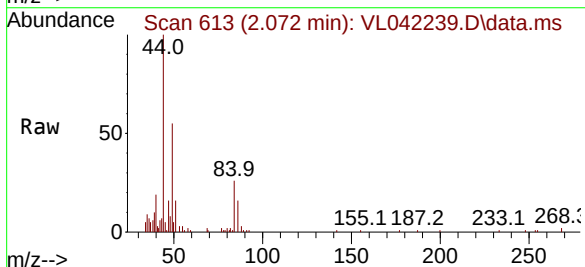
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B14-3-04012025DL

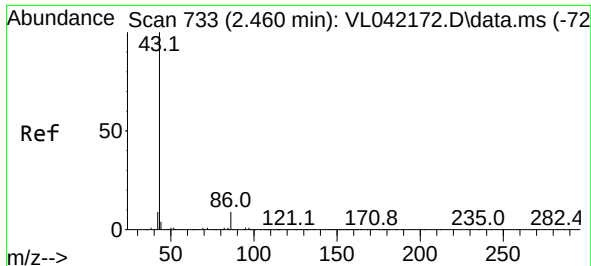
Tgt Ion: 45 Resp: 243073
Ion Ratio Lower Upper
45 100
58 1.3 36.9 55.3#



#20
Methylene Chloride
Concen: 0.177 ppbv
RT: 2.072 min Scan# 613
Delta R.T. 0.013 min
Lab File: VL042239.D
Acq: 07 Apr 2025 19:17

Tgt Ion: 84 Resp: 1777
Ion Ratio Lower Upper
84 100
49 231.4 120.2 180.4#
51 60.3 37.4 56.0#
86 62.4 52.4 78.6

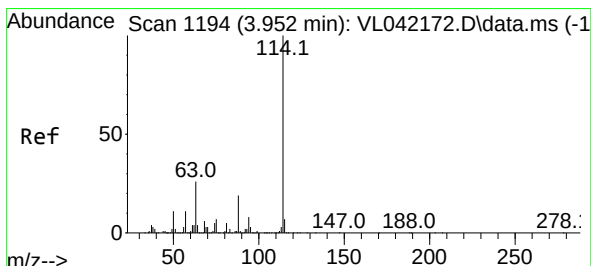
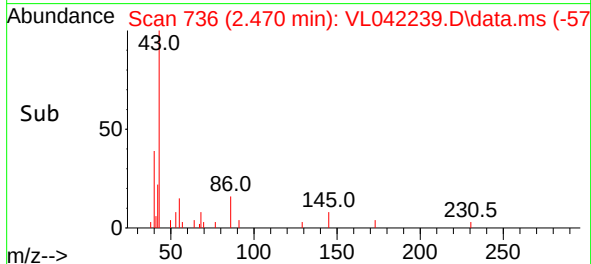
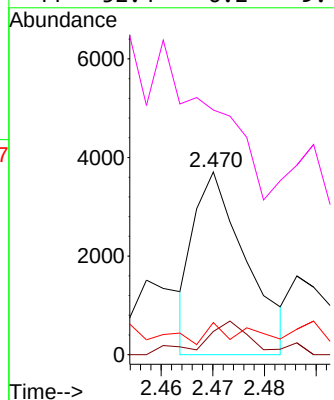
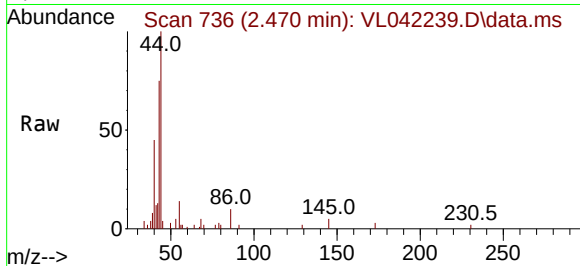




#23
 Vinyl Acetate
 Concen: 0.223 ppbv
 RT: 2.470 min Scan# 71
 Delta R.T. 0.010 min
 Lab File: VL042239.D
 Acq: 07 Apr 2025 19:17

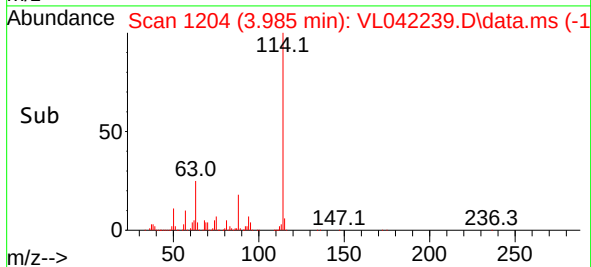
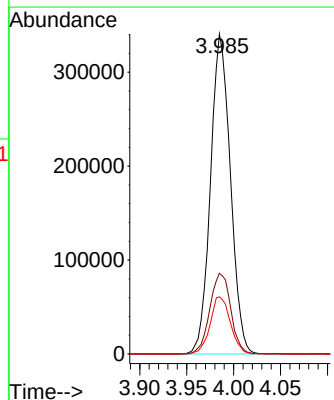
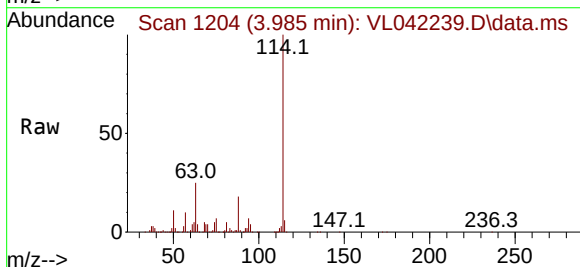
Instrument :
 MSVOA_L
 ClientSampleId :
 SSSG-B14-3-04012025DL

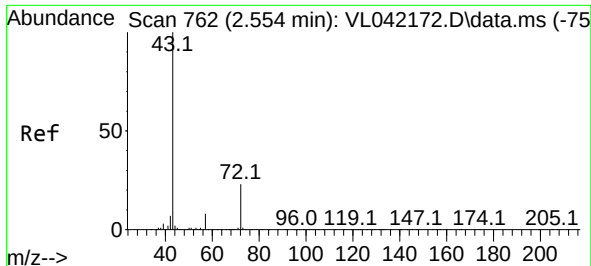
Tgt Ion:	43	Resp:	2605
Ion	Ratio	Lower	Upper
43	100		
86	13.2	5.5	8.3#
42	12.2	8.6	13.0
44	52.4	6.2	9.4#



#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 3.985 min Scan# 1204
 Delta R.T. 0.032 min
 Lab File: VL042239.D
 Acq: 07 Apr 2025 19:17

Tgt Ion:	114	Resp:	502203
Ion	Ratio	Lower	Upper
114	100		
63	26.6	20.7	31.1
88	18.2	15.0	22.4

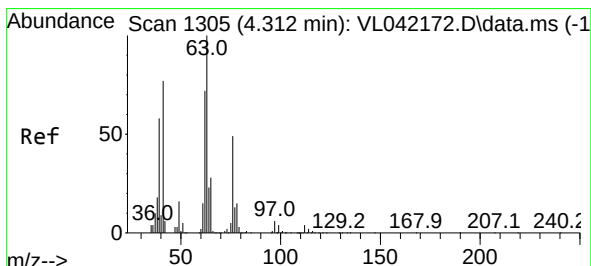
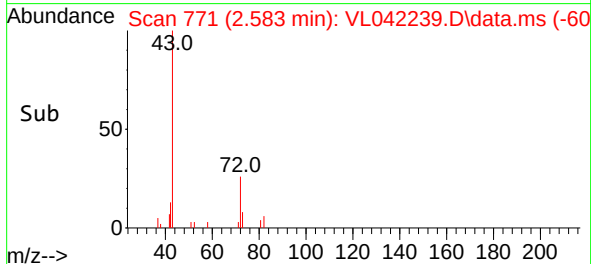
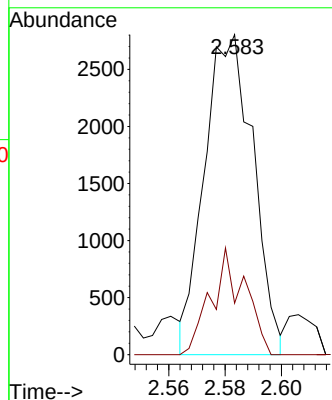
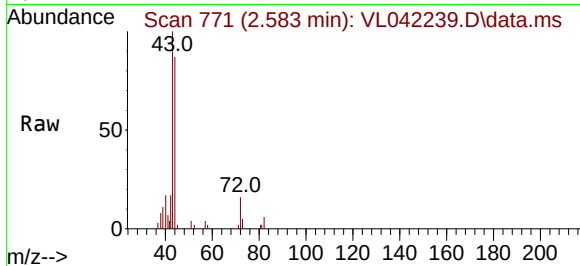




#34
2-Butanone
Concen: 0.092 ppbv
RT: 2.583 min Scan# 71
Delta R.T. 0.029 min
Lab File: VL042239.D
Acq: 07 Apr 2025 19:17

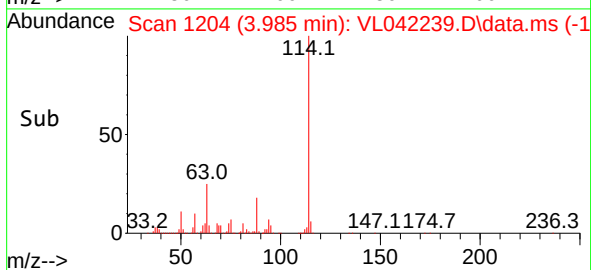
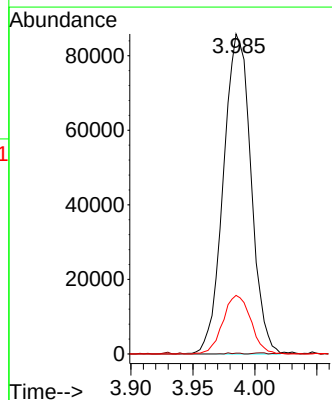
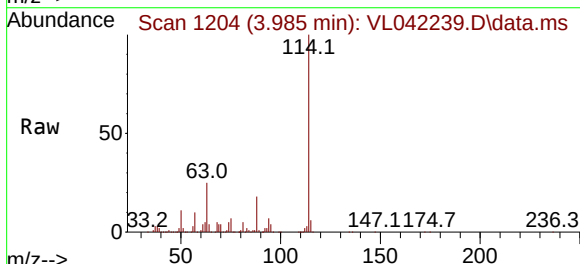
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B14-3-04012025DL

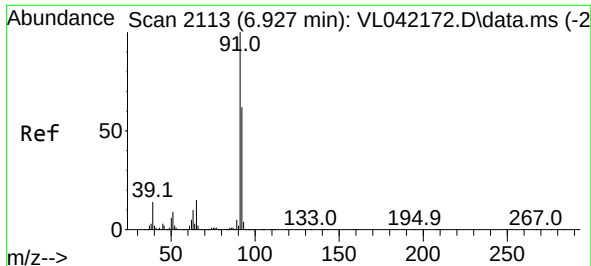
Tgt Ion: 43 Resp: 3350
Ion Ratio Lower Upper
43 100
72 23.2 18.2 27.2



#39
1,2-Dichloropropane
Concen: 7.331 ppbv
RT: 3.985 min Scan# 1204
Delta R.T. -0.327 min
Lab File: VL042239.D
Acq: 07 Apr 2025 19:17

Tgt Ion: 63 Resp: 132919
Ion Ratio Lower Upper
63 100
41 0.0 61.7 92.5#
62 18.3 57.6 86.4#

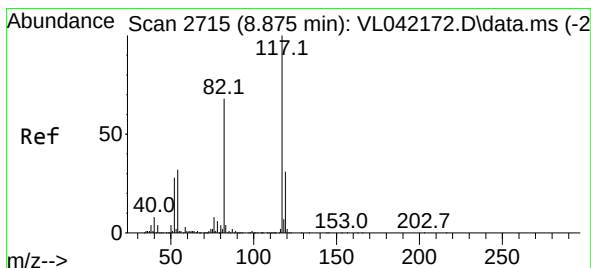
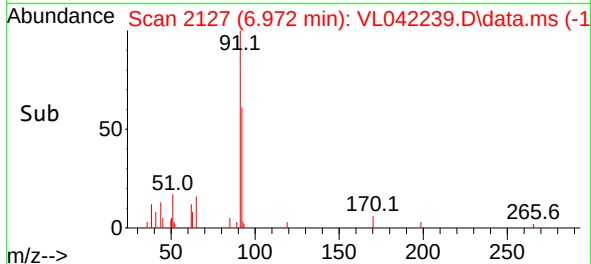
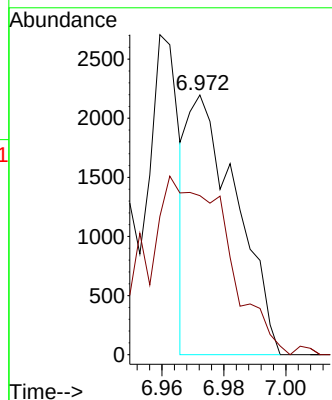
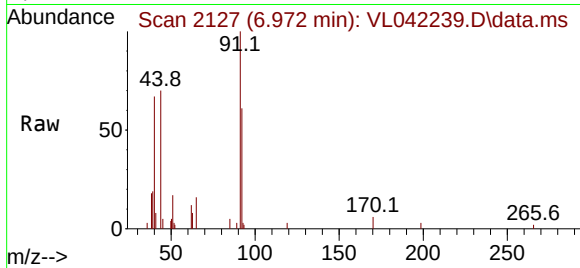




#53
Toluene
Concen: 0.041 ppbv
RT: 6.972 min Scan# 2113
Delta R.T. 0.045 min
Lab File: VL042239.D
Acq: 07 Apr 2025 19:17

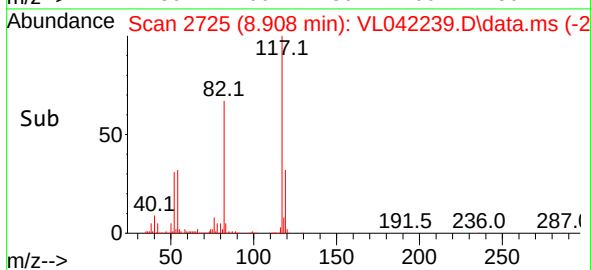
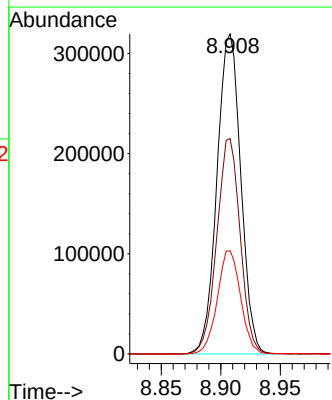
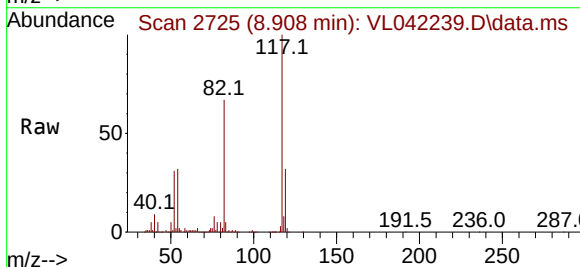
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B14-3-04012025DL

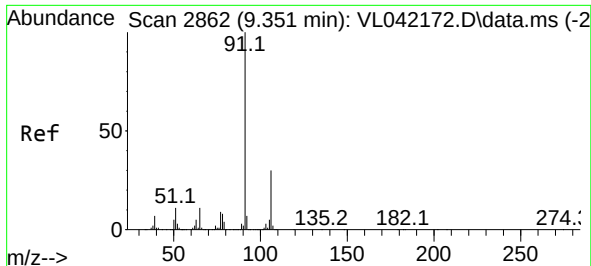
Tgt Ion: 91 Resp: 2409
Ion Ratio Lower Upper
91 100
92 0.0 48.4 72.6#



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.908 min Scan# 2725
Delta R.T. 0.032 min
Lab File: VL042239.D
Acq: 07 Apr 2025 19:17

Tgt Ion: 117 Resp: 443302
Ion Ratio Lower Upper
117 100
82 66.1 55.8 83.6
119 31.8 25.5 38.3

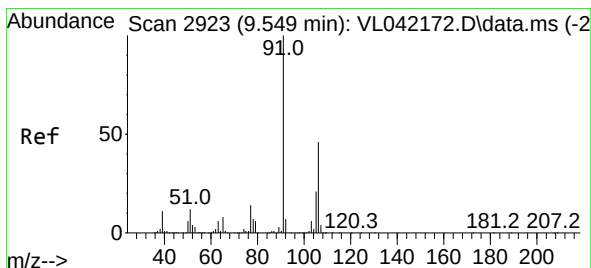
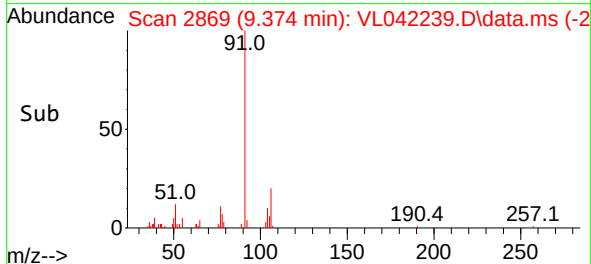
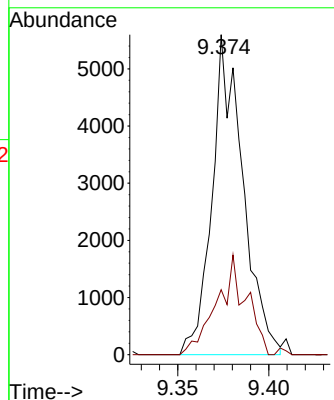
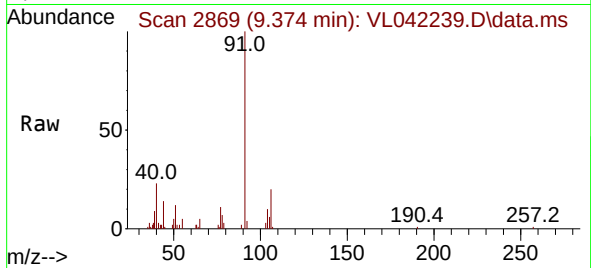




#58
Ethyl Benzene
Concen: 0.083 ppbv
RT: 9.374 min Scan# 2869
Delta R.T. 0.023 min
Lab File: VL042239.D
Acq: 07 Apr 2025 19:17

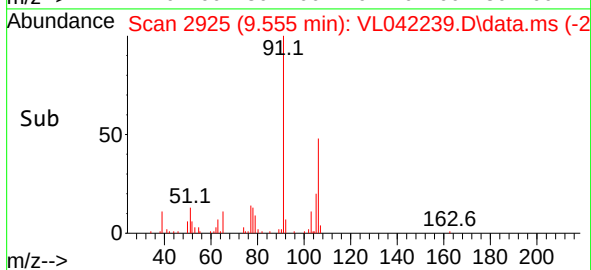
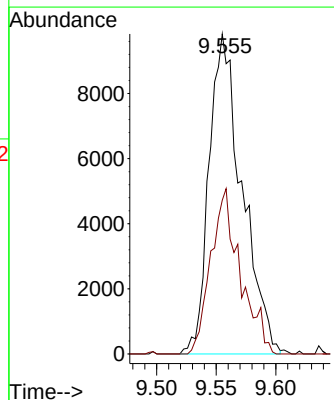
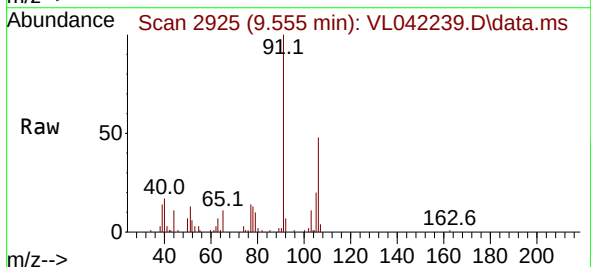
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B14-3-04012025DL

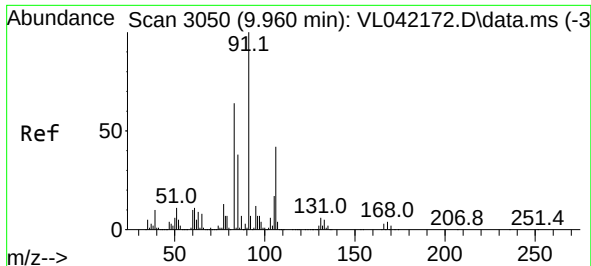
Tgt Ion: 91 Resp: 6567
Ion Ratio Lower Upper
91 100
106 20.3 24.2 36.2#



#59
m/p-Xylene
Concen: 0.300 ppbv
RT: 9.555 min Scan# 2925
Delta R.T. 0.007 min
Lab File: VL042239.D
Acq: 07 Apr 2025 19:17

Tgt Ion: 91 Resp: 18879
Ion Ratio Lower Upper
91 100
106 46.4 36.4 54.6

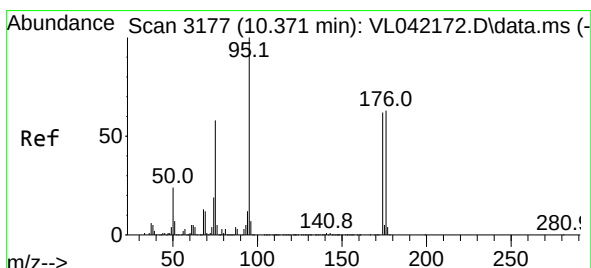
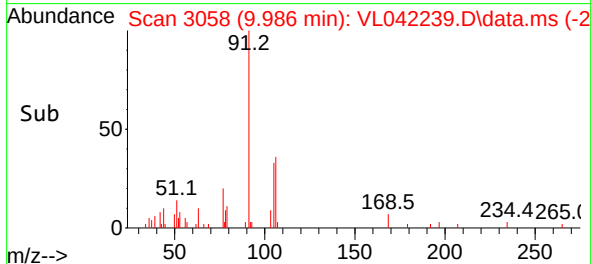
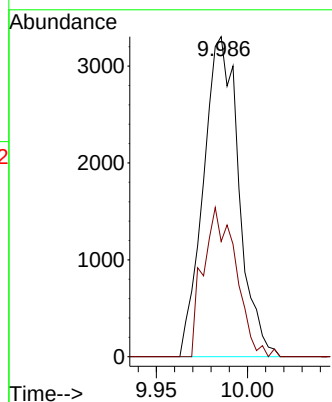
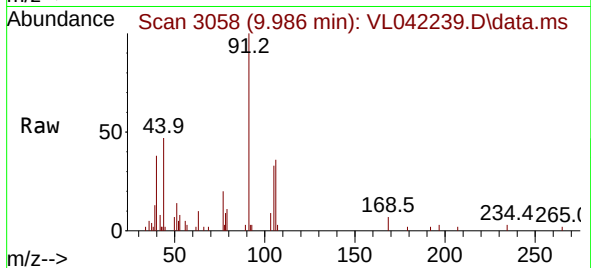




#60
o-Xylene
Concen: 0.071 ppbv
RT: 9.986 min Scan# 3058
Delta R.T. 0.026 min
Lab File: VL042239.D
Acq: 07 Apr 2025 19:17

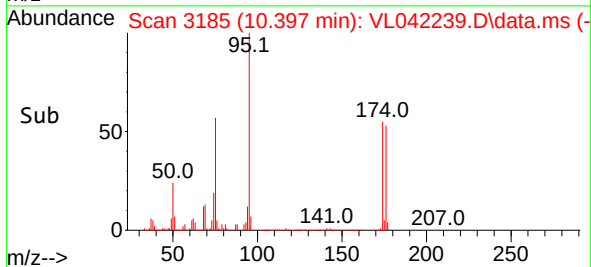
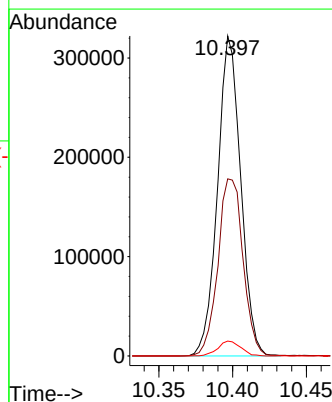
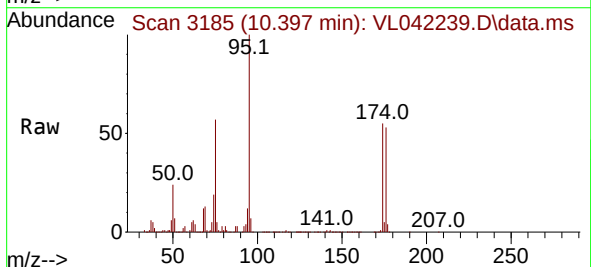
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B14-3-04012025DL

Tgt Ion: 91 Resp: 4467
Ion Ratio Lower Upper
91 100
106 43.2 20.8 62.5



#68
1-Bromo-4-Fluorobenzene
Concen: 9.682 ppbv
RT: 10.397 min Scan# 3185
Delta R.T. 0.026 min
Lab File: VL042239.D
Acq: 07 Apr 2025 19:17

Tgt Ion: 95 Resp: 352454
Ion Ratio Lower Upper
95 100
174 60.1 50.6 76.0
175 4.6 3.8 5.6



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040725\
 Data File : VL042241.D
 Acq On : 07 Apr 2025 20:19
 Operator : SY/MD
 Sample : Q1725-07DL 10X
 Misc : 400mL/MSVOA_L
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SSSG-B10-1-03312025-SPLITDL

Quant Time: Apr 08 01:35:14 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri Mar 28 02:00:52 2025
 Response via : Initial Calibration

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

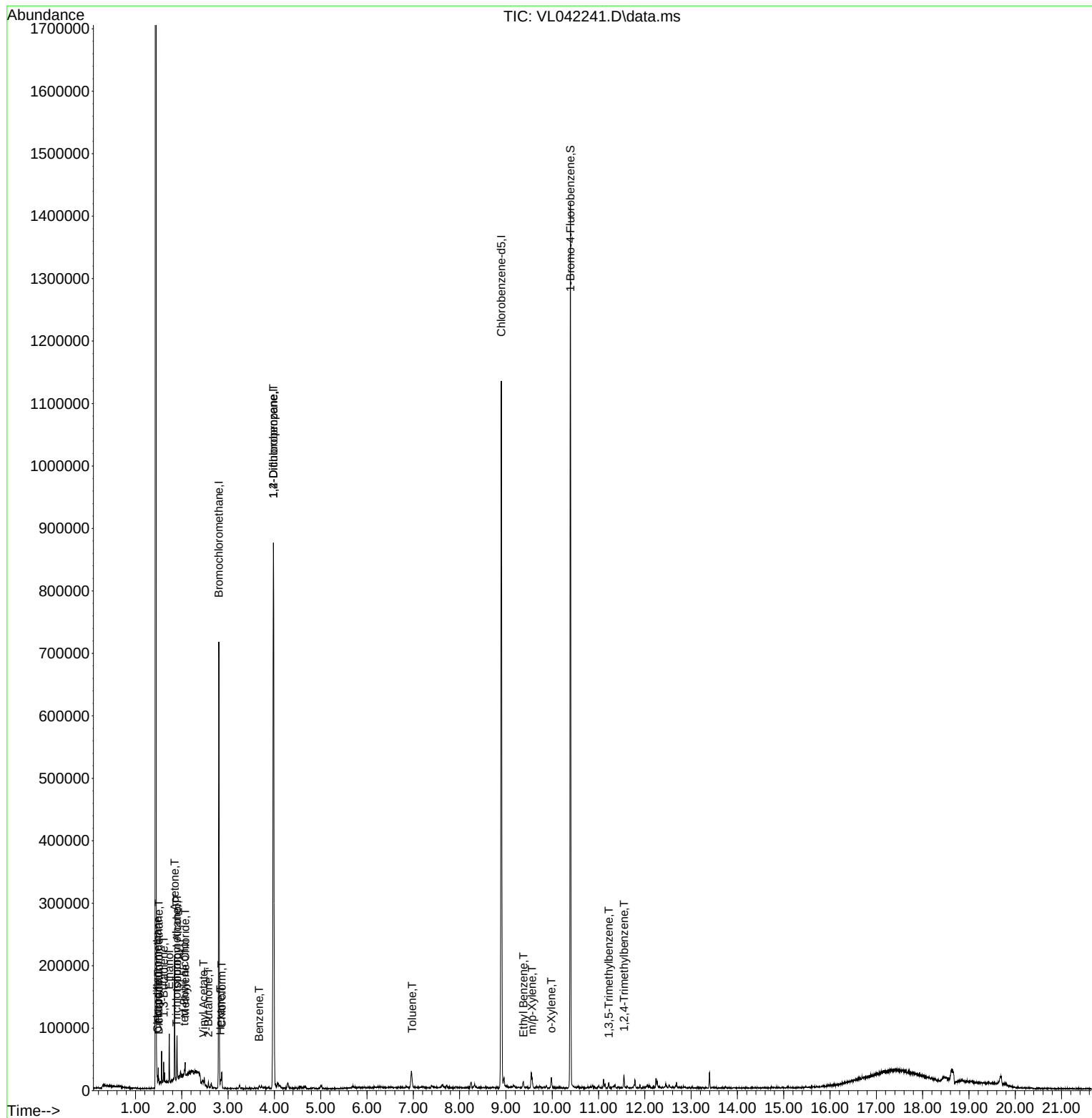
Internal Standards						
1) Bromochloromethane	2.800	49	193361	10.000	ppbv	0.02
33) 1,4-Difluorobenzene	3.978	114	501287	10.000	ppbv	0.03
55) Chlorobenzene-d5	8.901	117	435889	10.000	ppbv	0.03
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.393	95	342674	9.573	ppbv	0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	95.700%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.502	85	1454	0.051	ppbv #	85
3) Chlorodifluoromethane	1.473	51	2614	0.090	ppbv #	66
9) Propene	1.492	41	2464	0.184	ppbv	96
11) Trichlorofluoromethane	1.887	101	873	0.031	ppbv	94
13) Ethanol	1.729	45	24715	19.557	ppbv	88
15) Acetone	1.845	43	86496	3.199	ppbv	92
16) 1,3-Butadiene	1.609	39	4147	0.314	ppbv #	22
17) tert-Butyl alcohol	2.056	59	2967	0.088	ppbv #	65
19) Isopropyl Alcohol	1.897	45	27725	1.817	ppbv #	36
20) Methylene Chloride	2.072	84	2831	0.281	ppbv	97
23) Vinyl Acetate	2.467	43	2686	0.229	ppbv #	51
26) Hexane	2.836	57	2231	0.082	ppbv #	44
29) Chloroform	2.862	83	10048	0.253	ppbv #	79
34) 2-Butanone	2.573	43	5926	0.163	ppbv	99
36) Benzene	3.671	78	1744	0.035	ppbv #	87
39) 1,2-Dichloropropane	3.978	63	130609	7.217	ppbv #	22
53) Toluene	6.972	91	3522	0.060	ppbv #	20
58) Ethyl Benzene	9.377	91	5155	0.067	ppbv	96
59) m/p-Xylene	9.565	91	4633	0.075	ppbv #	31
60) o-Xylene	9.982	91	7313	0.118	ppbv	96
73) 1,3,5-Trimethylbenzene	11.219	105	2306	0.034	ppbv	87
74) 1,2,4-Trimethylbenzene	11.552	105	7104	0.091	ppbv #	61

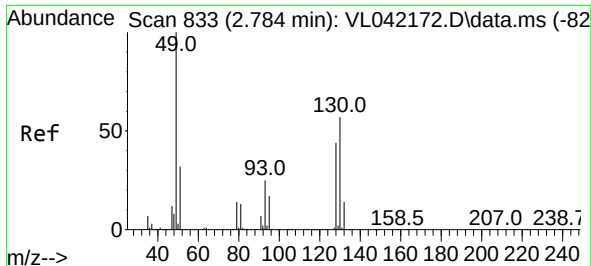
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040725\
Data File : VL042241.D
Acq On : 07 Apr 2025 20:19
Operator : SY/MD
Sample : Q1725-07DL 10X
Misc : 400mL/MSVOA_L
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
SSSG-B10-1-03312025-SPLITDL

Quant Time: Apr 08 01:35:14 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Fri Mar 28 02:00:52 2025
Response via : Initial Calibration

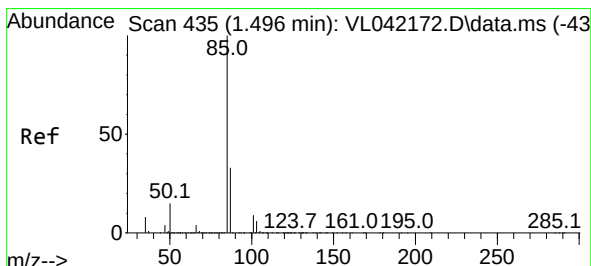
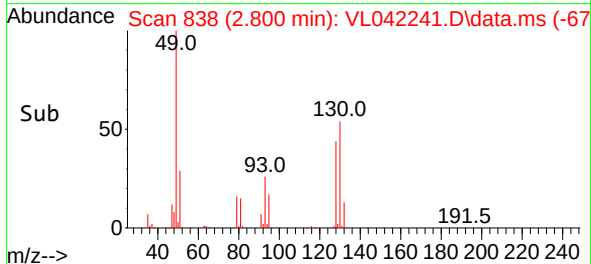
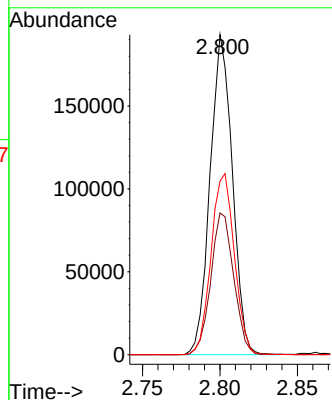
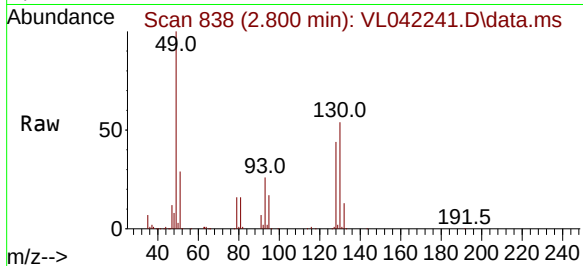




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.800 min Scan# 81
Delta R.T. 0.016 min
Lab File: VL042241.D
Acq: 07 Apr 2025 20:19

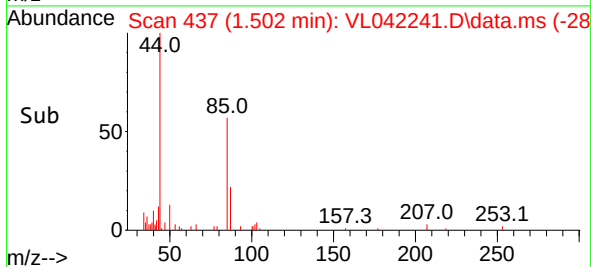
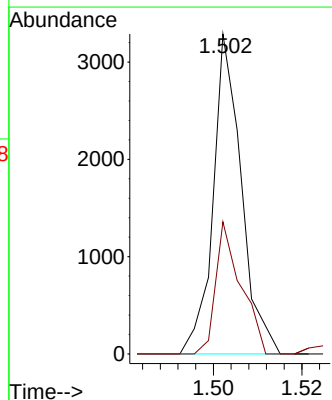
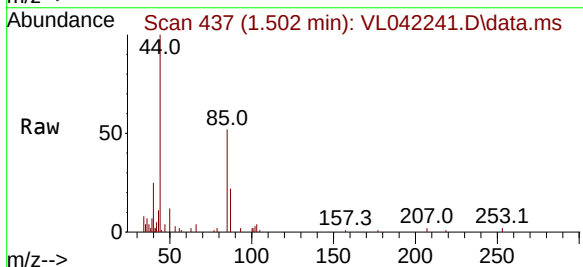
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B10-1-03312025-SPLITDL

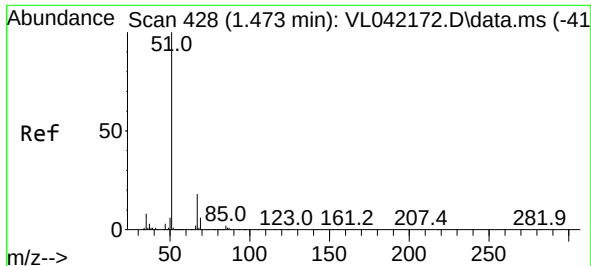
Tgt Ion: 49 Resp: 193361
Ion Ratio Lower Upper
49 100
128 45.7 22.9 68.5
130 59.2 28.8 86.4



#2
Dichlorodifluoromethane
Concen: 0.051 ppbv
RT: 1.502 min Scan# 437
Delta R.T. 0.006 min
Lab File: VL042241.D
Acq: 07 Apr 2025 20:19

Tgt Ion: 85 Resp: 1454
Ion Ratio Lower Upper
85 100
87 41.3 26.1 39.1#

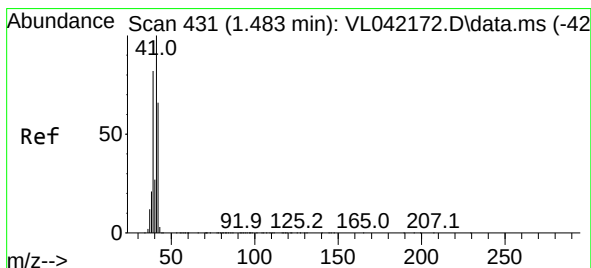
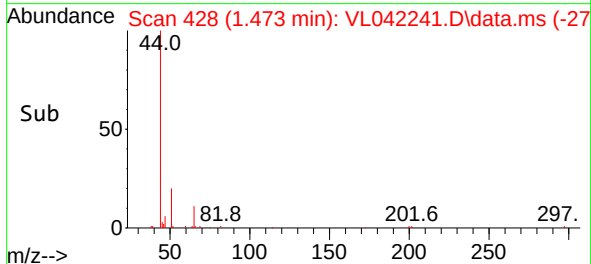
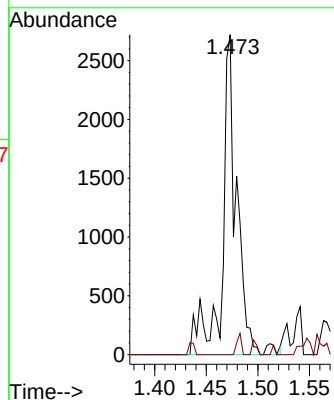
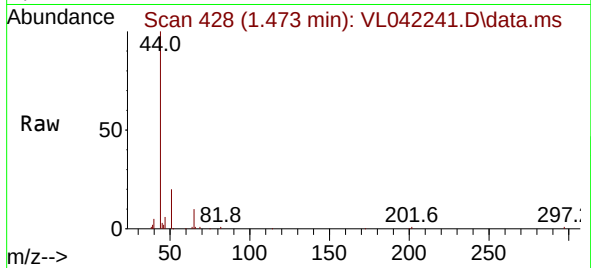




#3
Chlorodifluoromethane
Concen: 0.090 ppbv
RT: 1.473 min Scan# 41
Delta R.T. -0.000 min
Lab File: VL042241.D
Acq: 07 Apr 2025 20:19

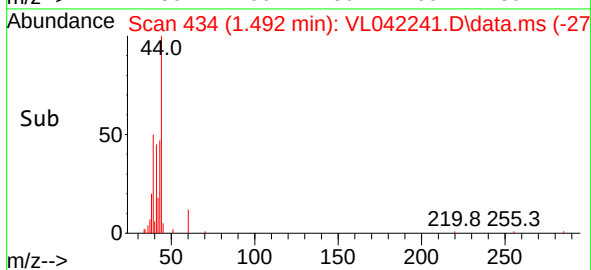
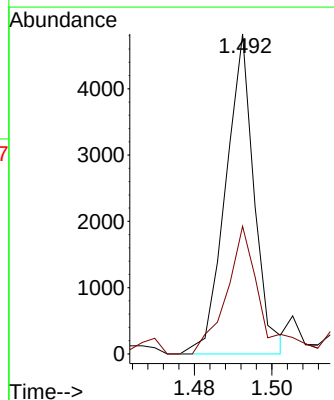
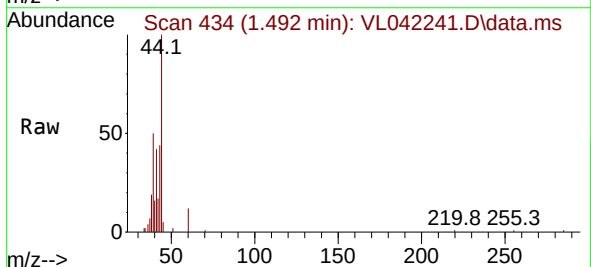
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B10-1-03312025-SPLITDL

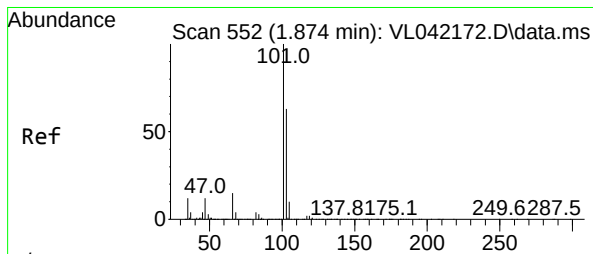
Tgt Ion: 51 Resp: 2614
Ion Ratio Lower Upper
51 100
67 3.6 15.0 22.6#



#9
Propene
Concen: 0.184 ppbv
RT: 1.492 min Scan# 434
Delta R.T. 0.010 min
Lab File: VL042241.D
Acq: 07 Apr 2025 20:19

Tgt Ion: 41 Resp: 2464
Ion Ratio Lower Upper
41 100
42 66.0 55.4 83.2

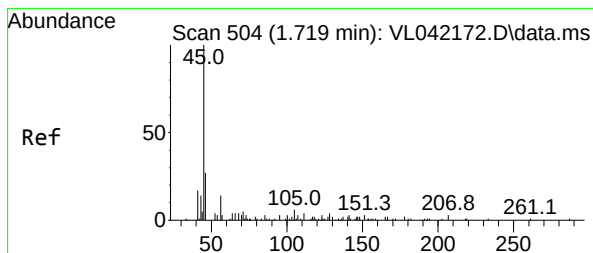
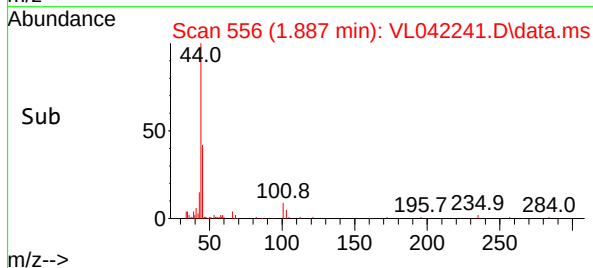
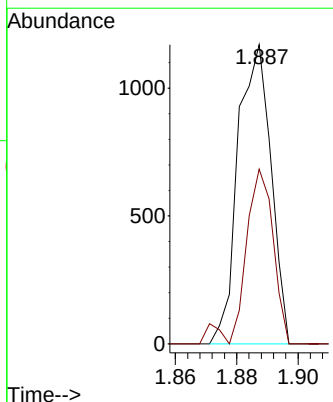
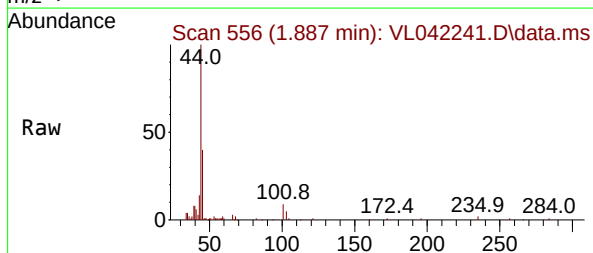




#11
Trichlorofluoromethane
Concen: 0.031 ppbv
RT: 1.887 min Scan# 5
Delta R.T. 0.013 min
Lab File: VL042241.D
Acq: 07 Apr 2025 20:19

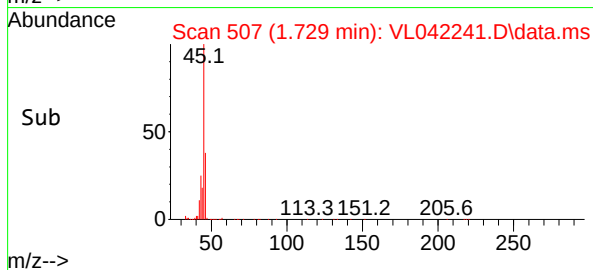
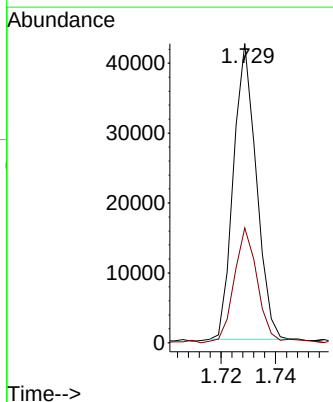
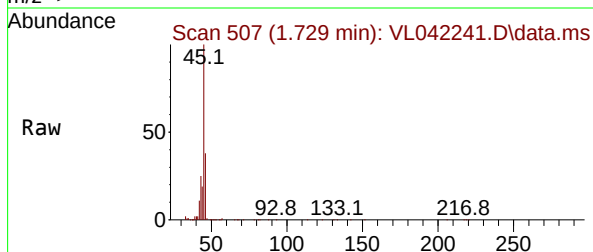
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B10-1-03312025-SPLITDL

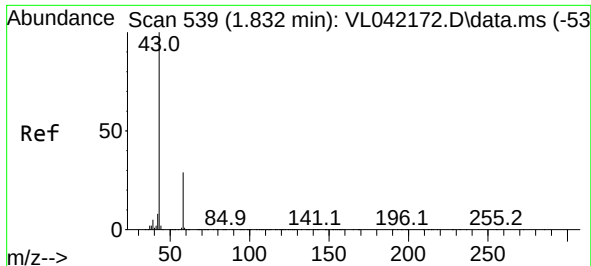
Tgt Ion: 101 Resp: 873
Ion Ratio Lower Upper
101 100
103 58.4 50.2 75.2



#13
Ethanol
Concen: 19.557 ppbv
RT: 1.729 min Scan# 507
Delta R.T. 0.010 min
Lab File: VL042241.D
Acq: 07 Apr 2025 20:19

Tgt Ion: 45 Resp: 24715
Ion Ratio Lower Upper
45 100
46 42.1 20.2 80.8

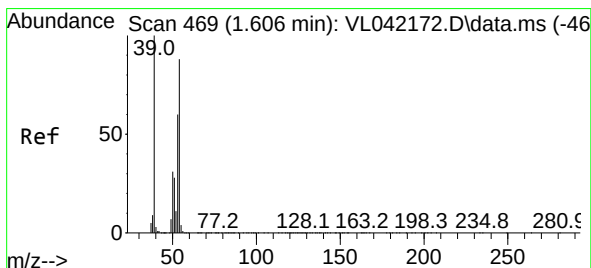
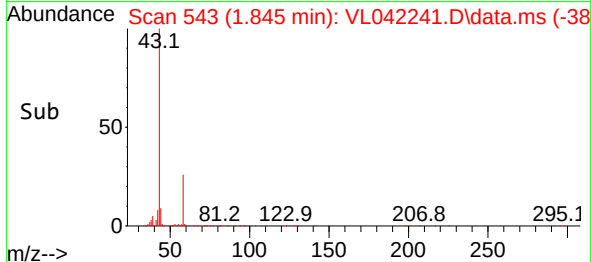
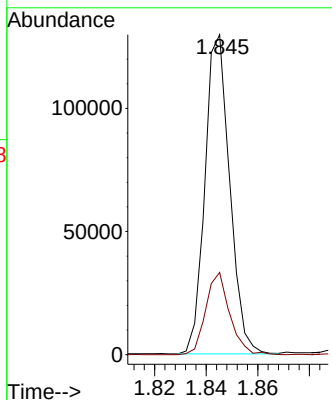
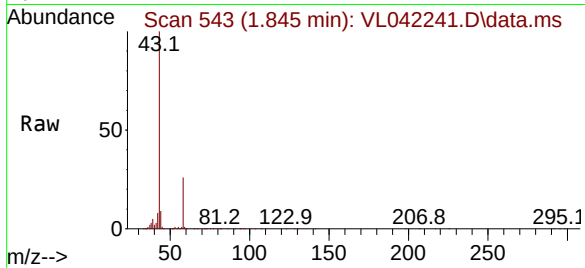




#15
Acetone
Concen: 3.199 ppbv
RT: 1.845 min Scan# 54
Delta R.T. 0.013 min
Lab File: VL042241.D
Acq: 07 Apr 2025 20:19

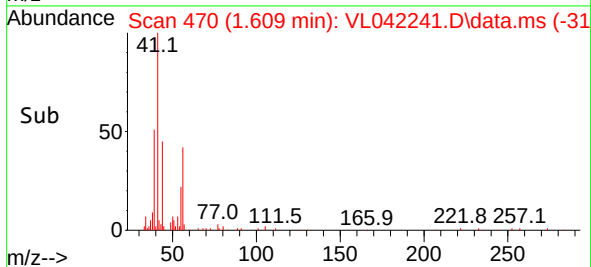
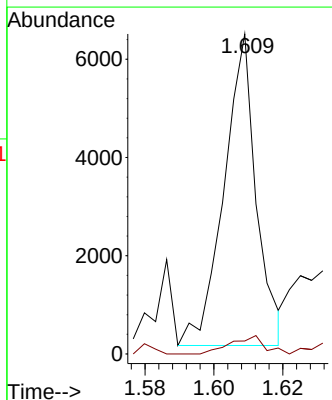
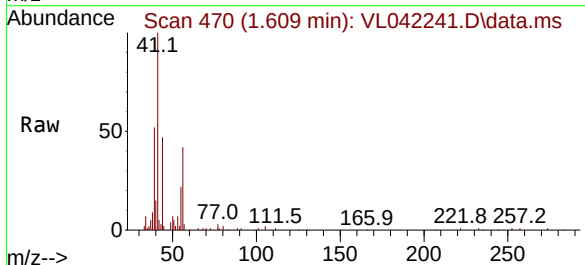
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B10-1-03312025-SPLITDL

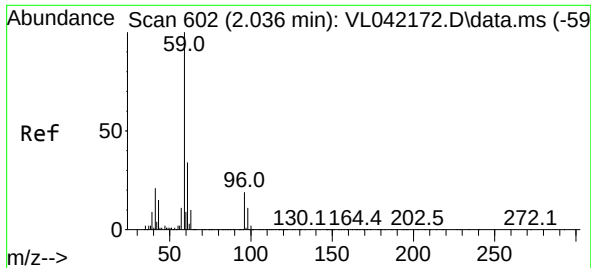
Tgt Ion: 43 Resp: 86496
Ion Ratio Lower Upper
43 100
58 24.9 23.2 34.8



#16
1,3-Butadiene
Concen: 0.314 ppbv
RT: 1.609 min Scan# 470
Delta R.T. 0.003 min
Lab File: VL042241.D
Acq: 07 Apr 2025 20:19

Tgt Ion: 39 Resp: 4147
Ion Ratio Lower Upper
39 100
54 8.8 60.7 91.1#





#17

tert-Butyl alcohol

Concen: 0.088 ppbv

RT: 2.056 min Scan# 602

Delta R.T. 0.019 min

Lab File: VL042241.D

Acq: 07 Apr 2025 20:19

Instrument :

MSVOA_L

ClientSampleId :

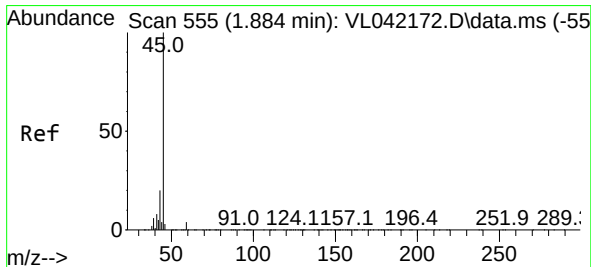
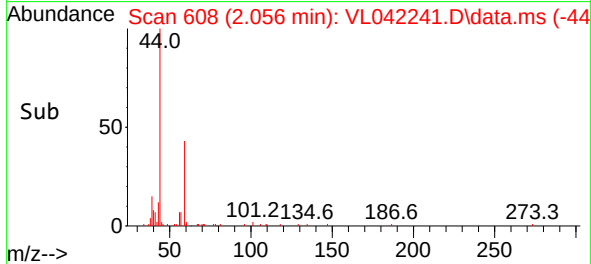
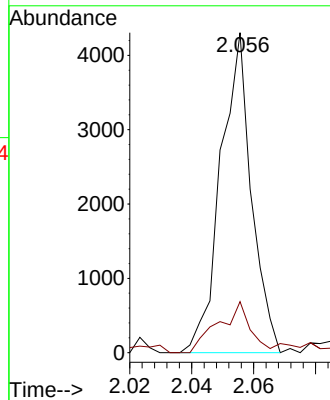
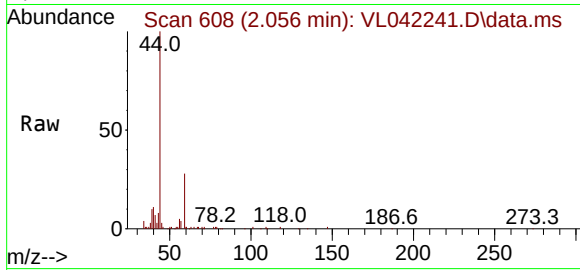
SSSG-B10-1-03312025-SPLITDL

Tgt Ion: 59 Resp: 2967

Ion Ratio Lower Upper

59 100

57 24.3 8.9 13.3#



#19

Isopropyl Alcohol

Concen: 1.817 ppbv

RT: 1.897 min Scan# 559

Delta R.T. 0.013 min

Lab File: VL042241.D

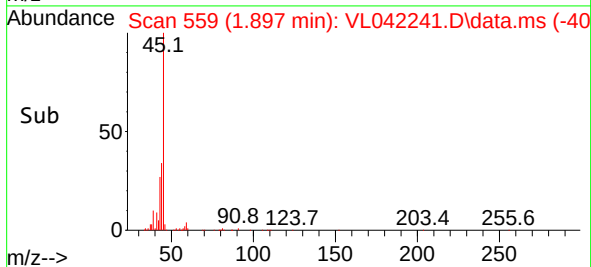
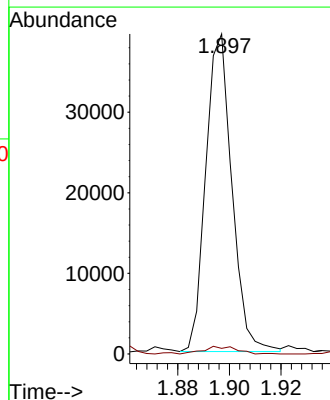
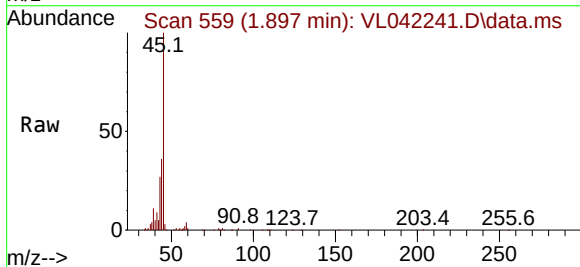
Acq: 07 Apr 2025 20:19

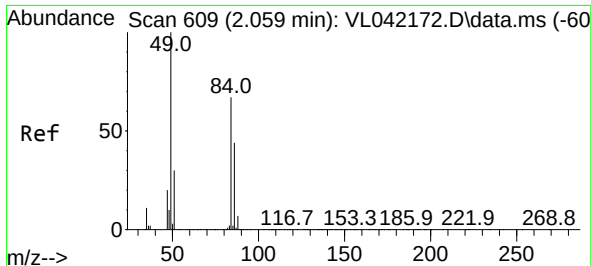
Tgt Ion: 45 Resp: 27725

Ion Ratio Lower Upper

45 100

58 3.6 36.9 55.3#





#20

Methylene Chloride

Concen: 0.281 ppbv

RT: 2.072 min Scan# 61

Delta R.T. 0.013 min

Lab File: VL042241.D

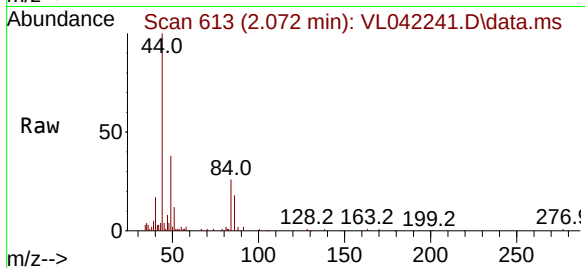
Acq: 07 Apr 2025 20:19

Instrument :

MSVOA_L

ClientSampleId :

SSSG-B10-1-03312025-SPLITDL



Tgt Ion: 84 Resp: 2831

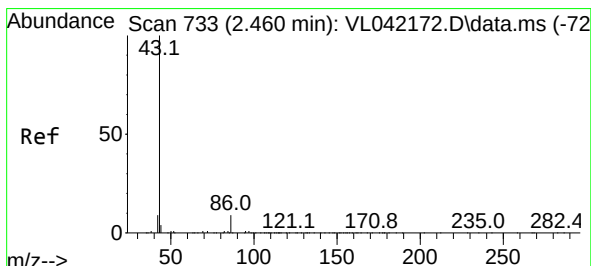
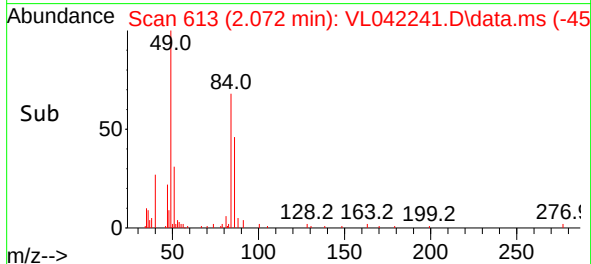
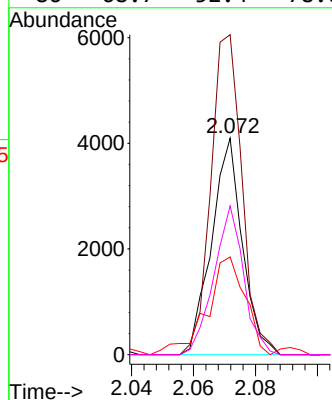
Ion Ratio Lower Upper

84 100

49 147.8 120.2 180.4

51 42.5 37.4 56.0

86 68.7 52.4 78.6



#23

Vinyl Acetate

Concen: 0.229 ppbv

RT: 2.467 min Scan# 735

Delta R.T. 0.006 min

Lab File: VL042241.D

Acq: 07 Apr 2025 20:19

Tgt Ion: 43 Resp: 2686

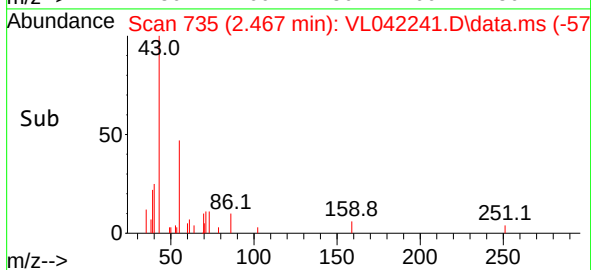
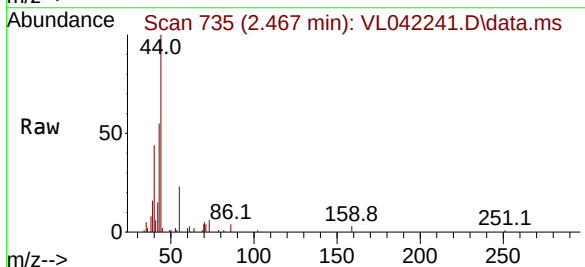
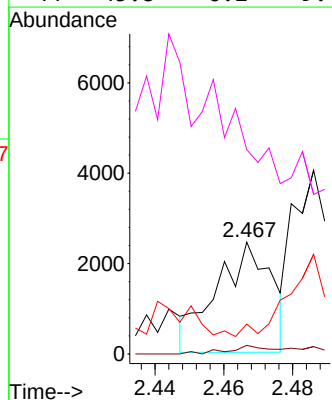
Ion Ratio Lower Upper

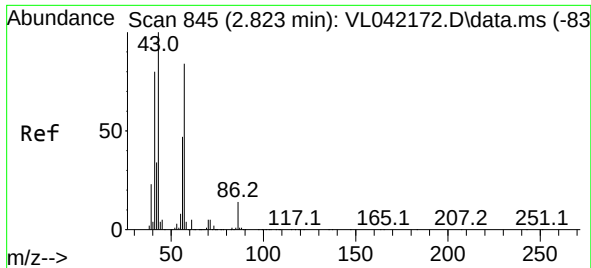
43 100

86 11.6 5.5 8.3#

42 0.0 8.6 13.0#

44 45.8 6.2 9.4#

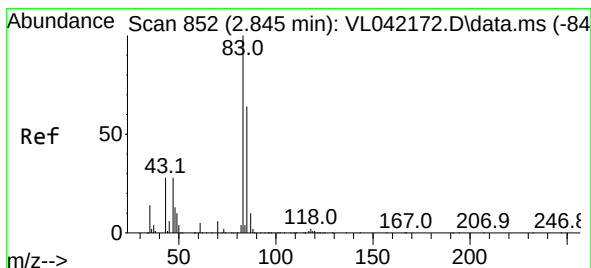
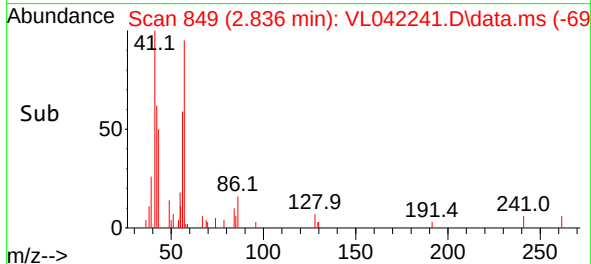
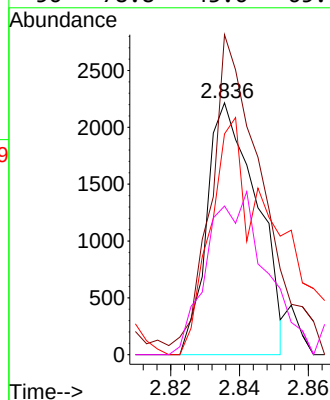
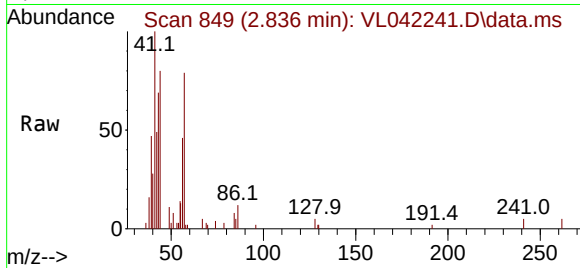




#26
Hexane
Concen: 0.082 ppbv
RT: 2.836 min Scan# 845
Delta R.T. 0.013 min
Lab File: VL042241.D
Acq: 07 Apr 2025 20:19

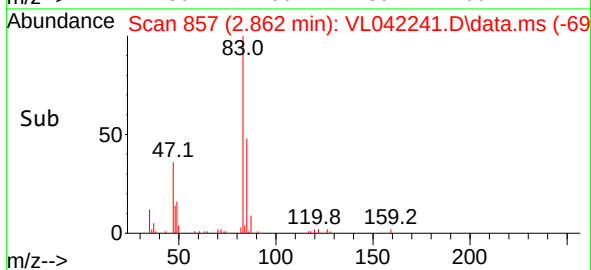
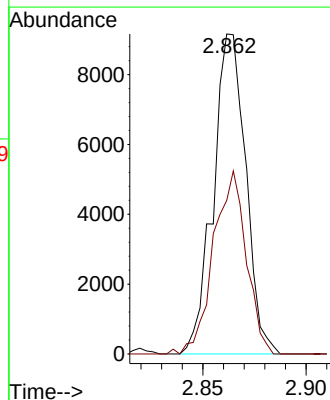
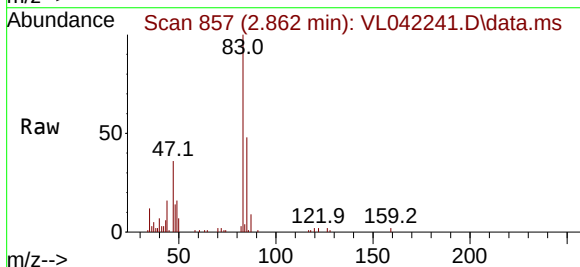
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B10-1-03312025-SPLITDL

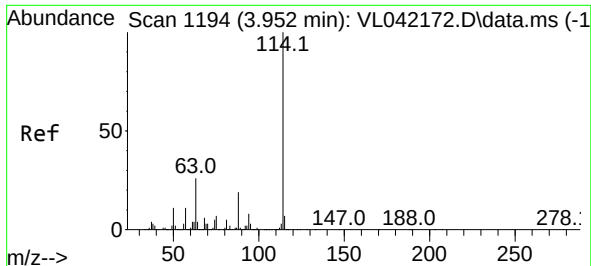
Tgt Ion: 57 Resp: 2231
Ion Ratio Lower Upper
57 100
41 141.8 76.6 114.8#
43 145.9 207.8 311.8#
56 78.8 43.6 65.4#



#29
Chloroform
Concen: 0.253 ppbv
RT: 2.862 min Scan# 857
Delta R.T. 0.016 min
Lab File: VL042241.D
Acq: 07 Apr 2025 20:19

Tgt Ion: 83 Resp: 10048
Ion Ratio Lower Upper
83 100
85 48.0 51.4 77.2#

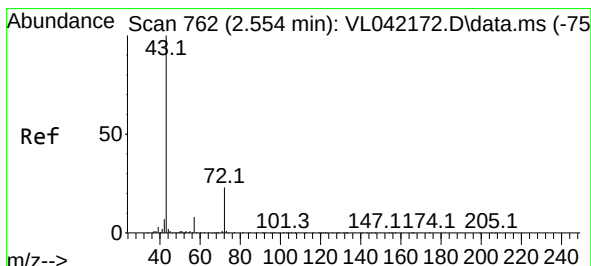
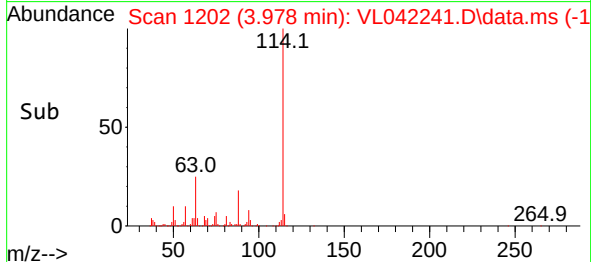
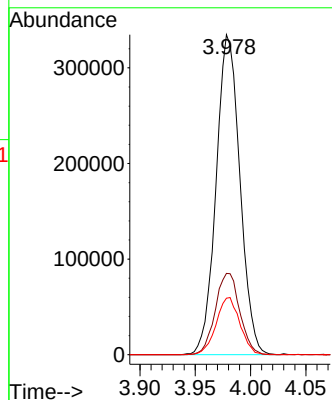
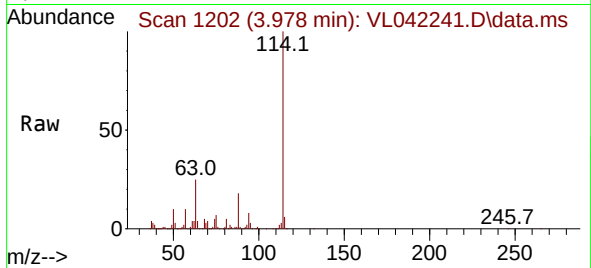




#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.978 min Scan# 1194
Delta R.T. 0.026 min
Lab File: VL042241.D
Acq: 07 Apr 2025 20:19

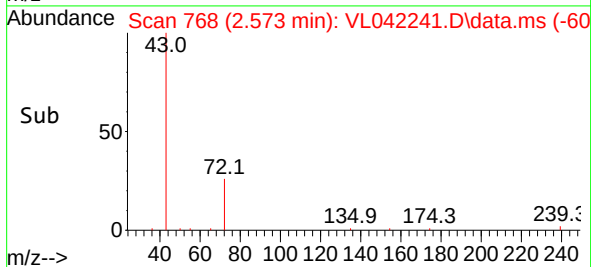
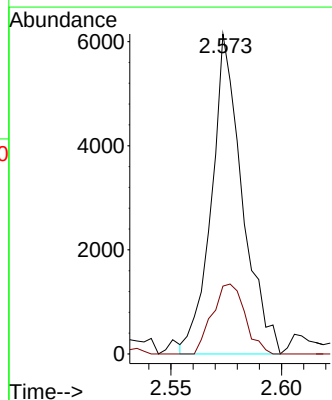
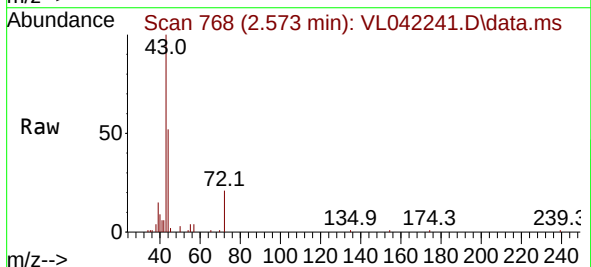
Instrument : MSVOA_L
ClientSampleId : SSSG-B10-1-03312025-SPLITDL

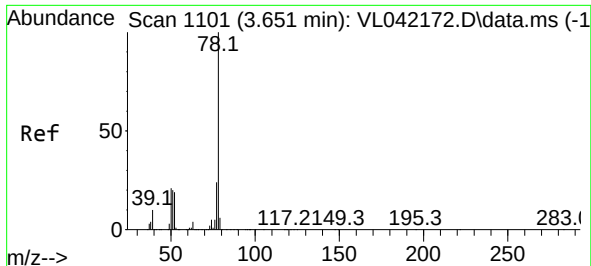
Tgt Ion:114 Resp: 501287
Ion Ratio Lower Upper
114 100
63 26.2 20.7 31.1
88 17.8 15.0 22.4



#34
2-Butanone
Concen: 0.163 ppbv
RT: 2.573 min Scan# 768
Delta R.T. 0.019 min
Lab File: VL042241.D
Acq: 07 Apr 2025 20:19

Tgt Ion: 43 Resp: 5926
Ion Ratio Lower Upper
43 100
72 23.2 18.2 27.2

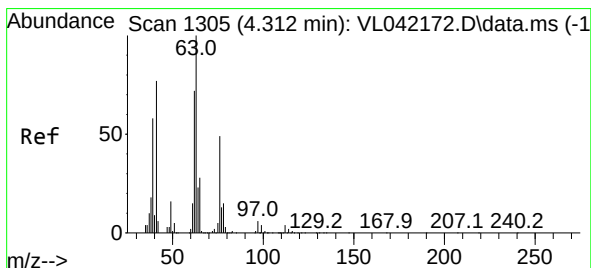
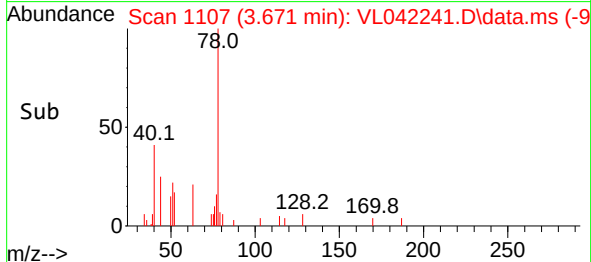
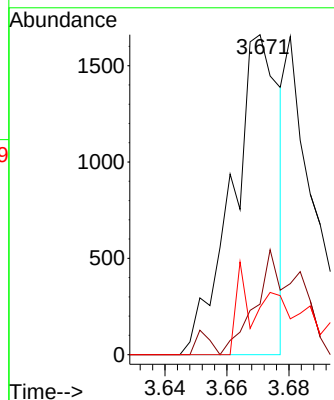
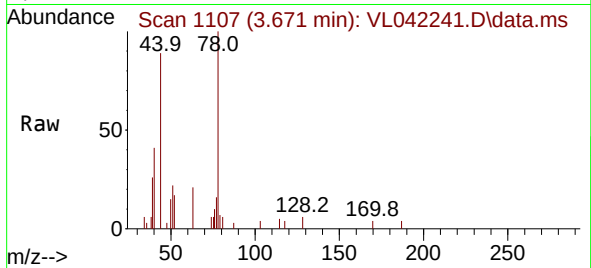




#36
Benzene
Concen: 0.035 ppbv
RT: 3.671 min Scan# 1101
Delta R.T. 0.019 min
Lab File: VL042241.D
Acq: 07 Apr 2025 20:19

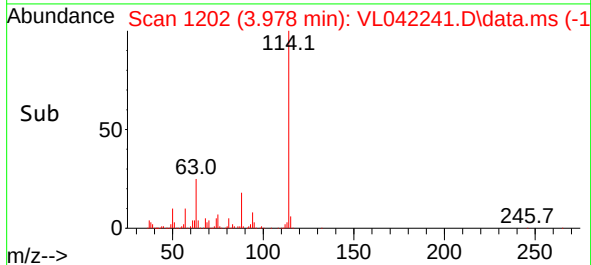
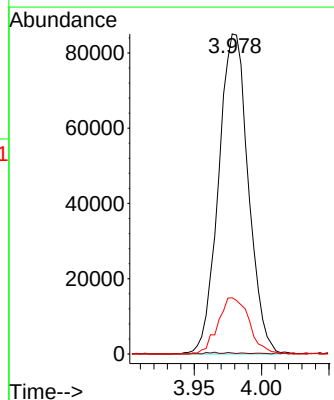
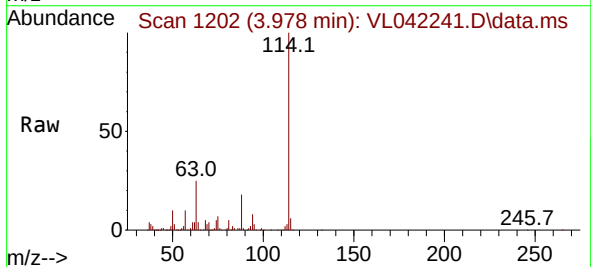
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B10-1-03312025-SPLITDL

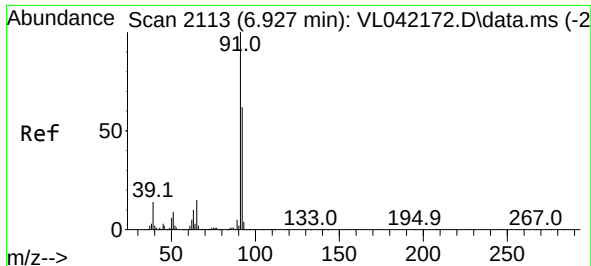
Tgt Ion: 78 Resp: 1744
Ion Ratio Lower Upper
78 100
77 16.5 19.1 28.7#
50 15.5 16.6 24.8#



#39
1,2-Dichloropropane
Concen: 7.217 ppbv
RT: 3.978 min Scan# 1202
Delta R.T. -0.333 min
Lab File: VL042241.D
Acq: 07 Apr 2025 20:19

Tgt Ion: 63 Resp: 130609
Ion Ratio Lower Upper
63 100
41 0.2 61.7 92.5#
62 17.6 57.6 86.4#

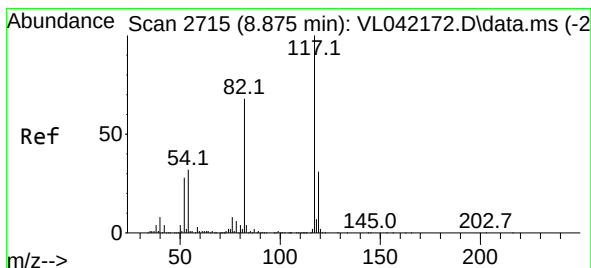
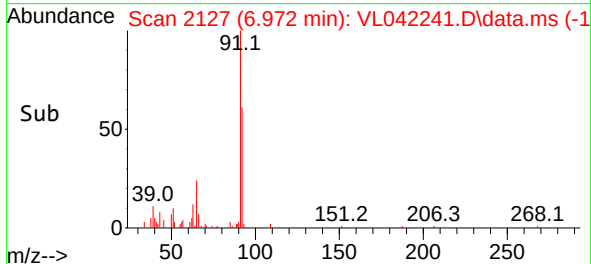
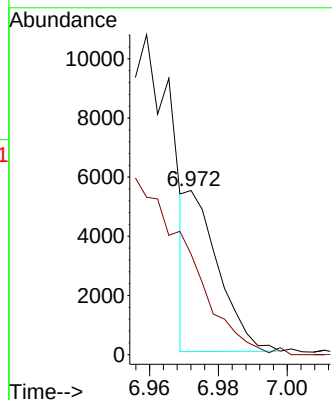
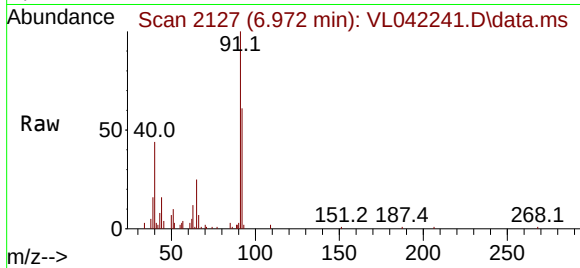




#53
Toluene
Concen: 0.060 ppbv
RT: 6.972 min Scan# 2113
Delta R.T. 0.045 min
Lab File: VL042241.D
Acq: 07 Apr 2025 20:19

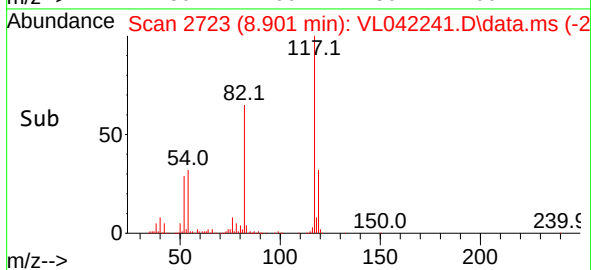
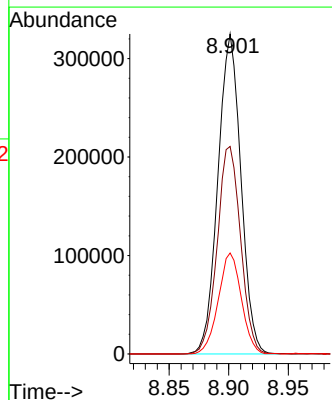
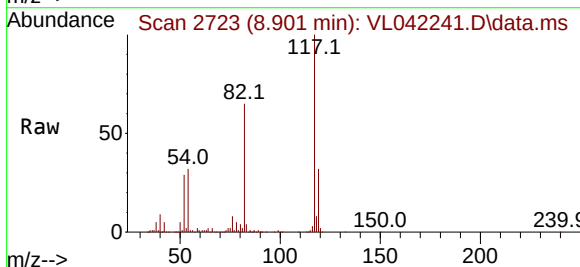
Instrument : MSVOA_L
ClientSampleId : SSSG-B10-1-03312025-SPLITDL

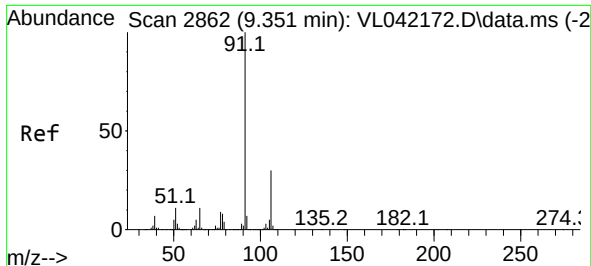
Tgt Ion: 91 Resp: 3522
Ion Ratio Lower Upper
91 100
92 0.0 48.4 72.6#



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.901 min Scan# 2723
Delta R.T. 0.026 min
Lab File: VL042241.D
Acq: 07 Apr 2025 20:19

Tgt Ion: 117 Resp: 435889
Ion Ratio Lower Upper
117 100
82 65.9 55.8 83.6
119 31.6 25.5 38.3

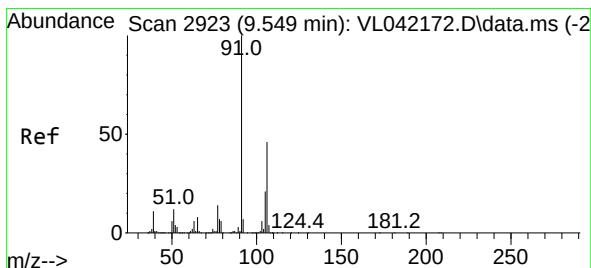
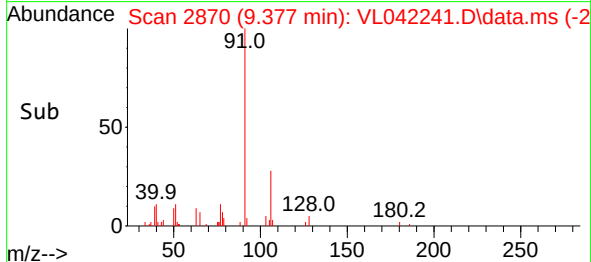
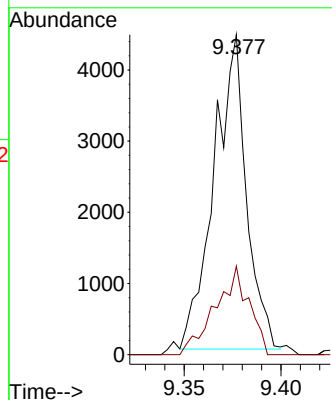
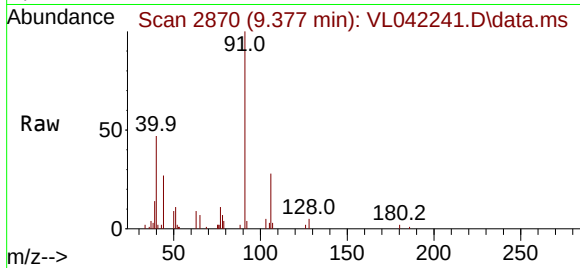




#58
Ethyl Benzene
Concen: 0.067 ppbv
RT: 9.377 min Scan# 21
Delta R.T. 0.026 min
Lab File: VL042241.D
Acq: 07 Apr 2025 20:19

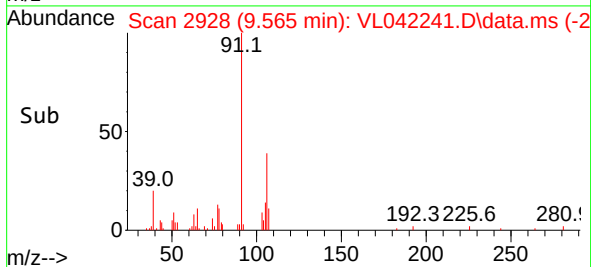
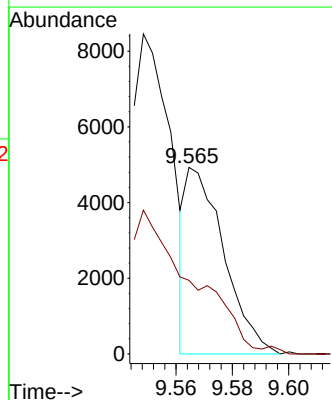
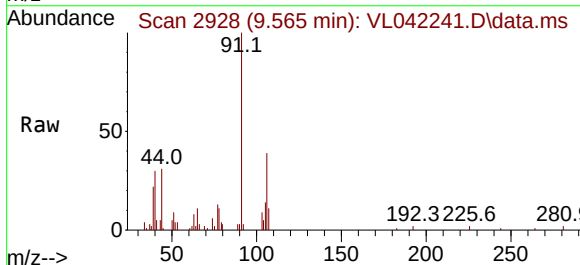
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B10-1-03312025-SPLITDL

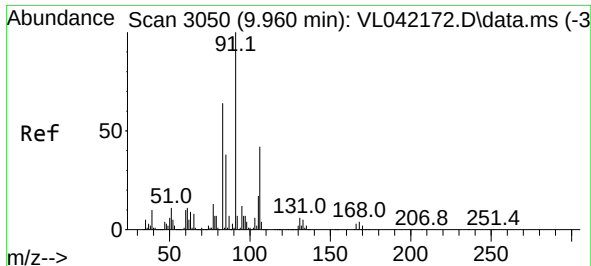
Tgt Ion: 91 Resp: 5155
Ion Ratio Lower Upper
91 100
106 28.2 24.2 36.2



#59
m/p-Xylene
Concen: 0.075 ppbv
RT: 9.565 min Scan# 2928
Delta R.T. 0.016 min
Lab File: VL042241.D
Acq: 07 Apr 2025 20:19

Tgt Ion: 91 Resp: 4633
Ion Ratio Lower Upper
91 100
106 0.0 36.4 54.6#

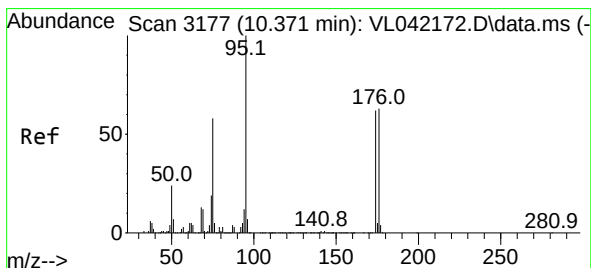
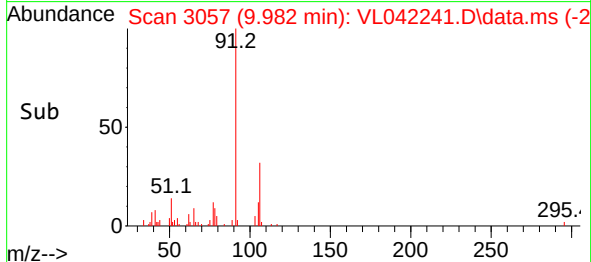
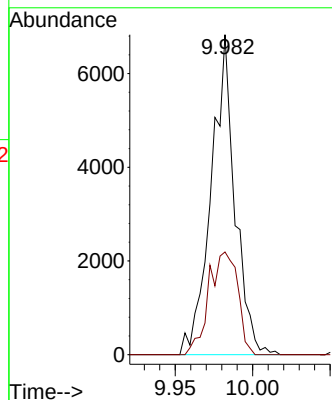
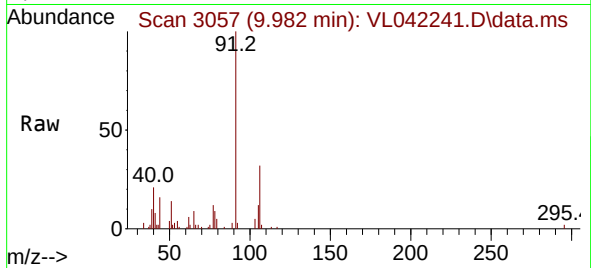




#60
o-Xylene
Concen: 0.118 ppbv
RT: 9.982 min Scan# 30
Delta R.T. 0.023 min
Lab File: VL042241.D
Acq: 07 Apr 2025 20:19

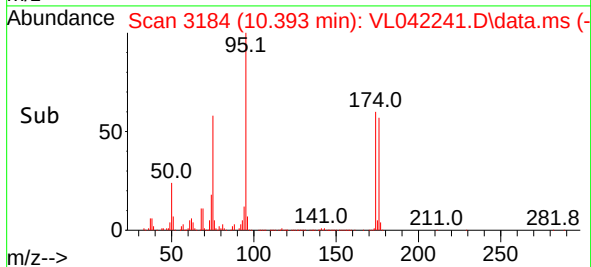
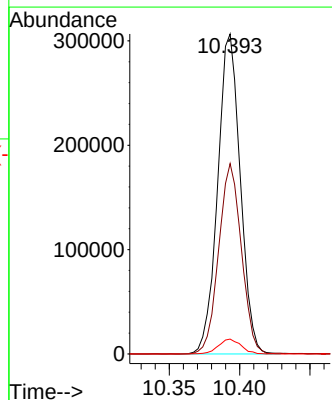
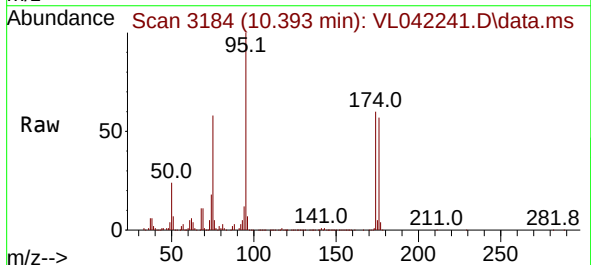
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B10-1-03312025-SPLITDL

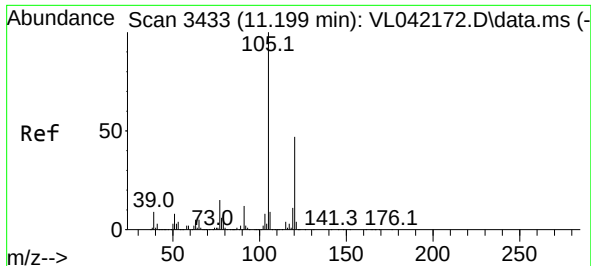
Tgt Ion: 91 Resp: 7313
Ion Ratio Lower Upper
91 100
106 39.0 20.8 62.5



#68
1-Bromo-4-Fluorobenzene
Concen: 9.573 ppbv
RT: 10.393 min Scan# 3184
Delta R.T. 0.023 min
Lab File: VL042241.D
Acq: 07 Apr 2025 20:19

Tgt Ion: 95 Resp: 342674
Ion Ratio Lower Upper
95 100
174 59.7 50.6 76.0
175 4.7 3.8 5.6

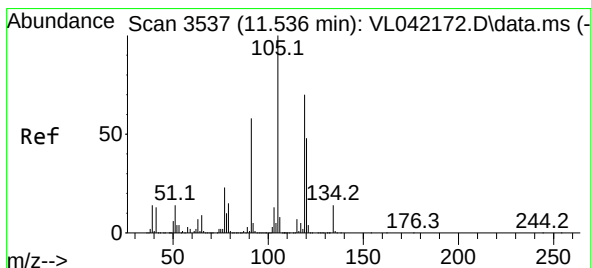
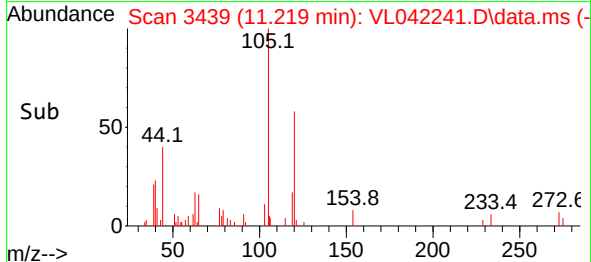
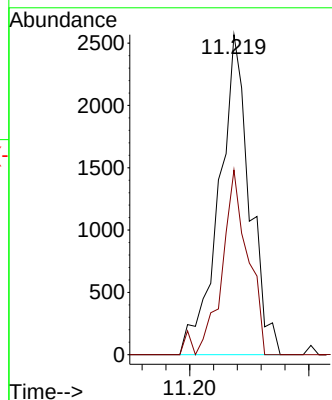
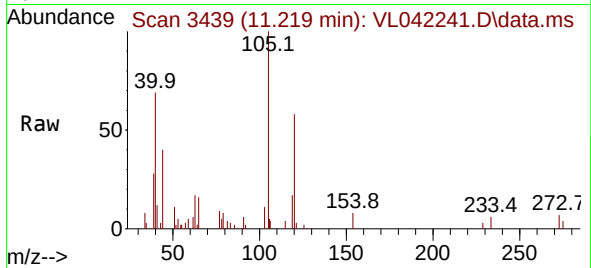




#73
 1,3,5-Trimethylbenzene
 Concen: 0.034 ppbv
 RT: 11.219 min Scan# 3439
 Delta R.T. 0.019 min
 Lab File: VL042241.D
 Acq: 07 Apr 2025 20:19

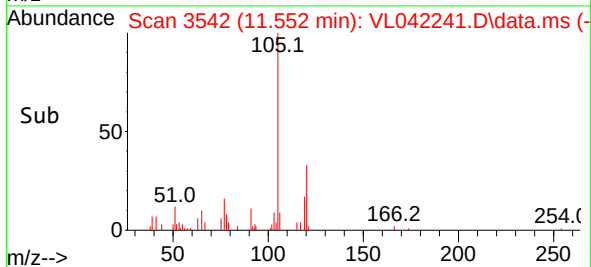
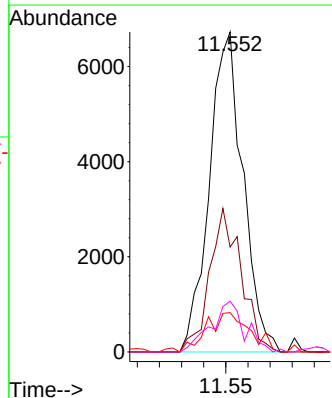
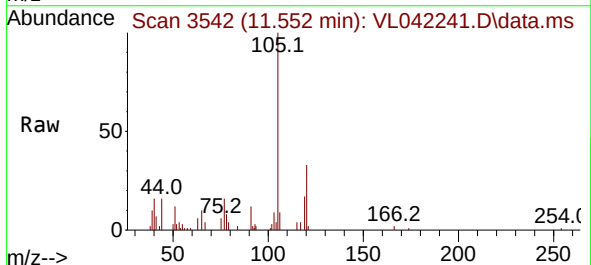
Instrument : MSVOA_L
 ClientSampleId : SSSG-B10-1-03312025-SPLITDL

Tgt Ion:105 Resp: 2306
 Ion Ratio Lower Upper
 105 100
 120 55.1 37.4 56.0



#74
 1,2,4-Trimethylbenzene
 Concen: 0.091 ppbv
 RT: 11.552 min Scan# 3542
 Delta R.T. 0.016 min
 Lab File: VL042241.D
 Acq: 07 Apr 2025 20:19

Tgt Ion:105 Resp: 7104
 Ion Ratio Lower Upper
 105 100
 120 32.8 38.6 58.0#
 91 12.3 46.2 69.2#
 77 15.8 18.6 27.8#



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040725\
 Data File : VL042243.D
 Acq On : 07 Apr 2025 21:38
 Operator : SY/MD
 Sample : Q1725-02DL2 40X
 Misc : 400mL/MSVOA_L
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SSSG-B10-4-04012025DL2

Quant Time: Apr 08 01:36:39 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri Mar 28 02:00:52 2025
 Response via : Initial Calibration

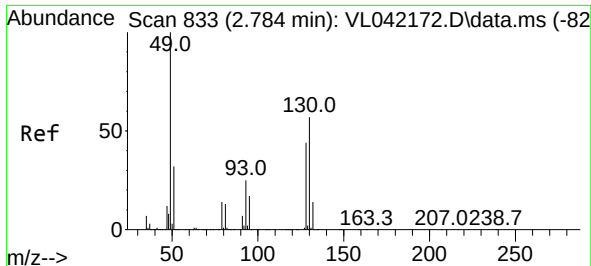
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	2.810	49	196689	10.000	ppbv	0.03
33) 1,4-Difluorobenzene	3.988	114	503068	10.000	ppbv	0.04
55) Chlorobenzene-d5	8.911	117	430861	10.000	ppbv	0.04
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.399	95	329790	9.321	ppbv	0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	93.200%
Target Compounds						
					Qvalue	
9) Propene	1.495	41	1609	0.118	ppbv	98
13) Ethanol	1.900	45	12074	9.393	ppbv #	27
15) Acetone	1.848	43	29249	1.063	ppbv	95
16) 1,3-Butadiene	1.609	39	1511	0.112	ppbv #	37
18) 1,1-Dichloroethene	2.052	96	464	0.043	ppbv #	40
19) Isopropyl Alcohol	1.900	45	12074	0.778	ppbv #	35
20) Methylene Chloride	2.078	84	1917	0.187	ppbv #	88
29) Chloroform	2.871	83	482007	11.943	ppbv	99
30) Cyclohexane	3.981	84	1101	0.046	ppbv #	1
35) Carbon Tetrachloride	3.793	117	2216	0.056	ppbv #	74
39) 1,2-Dichloropropane	3.988	63	130575	7.189	ppbv #	22

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

Quant Time: Apr 08 01:36:39 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Mar 28 02:00:52 2025
Response via : Initial Calibration

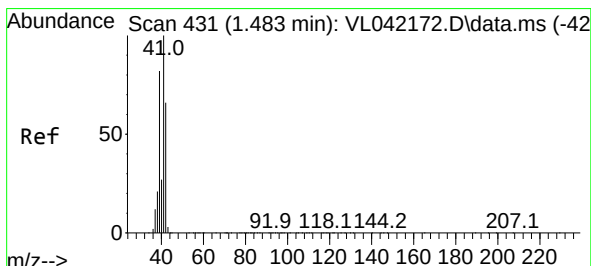
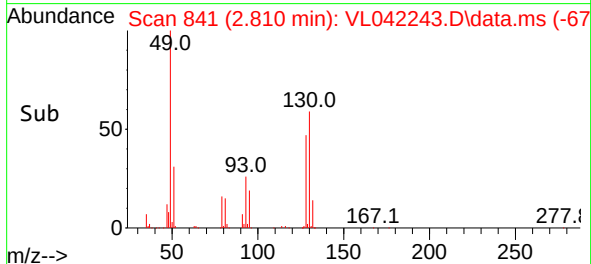
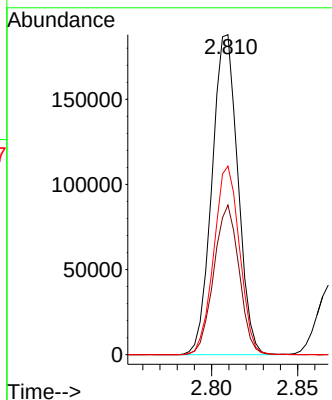
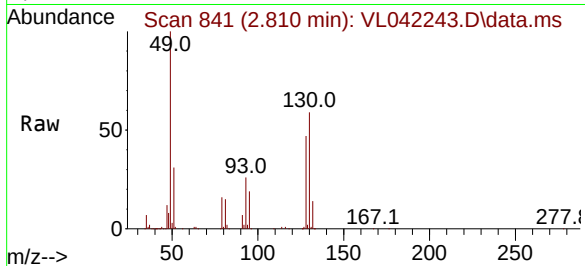




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.810 min Scan# 841
Delta R.T. 0.026 min
Lab File: VL042243.D
Acq: 07 Apr 2025 21:38

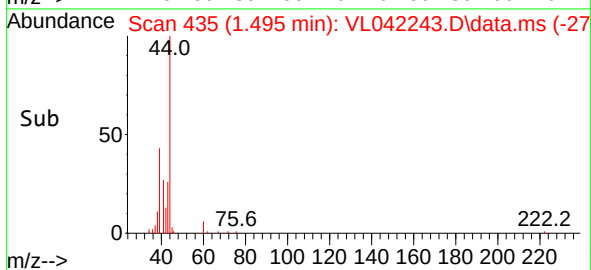
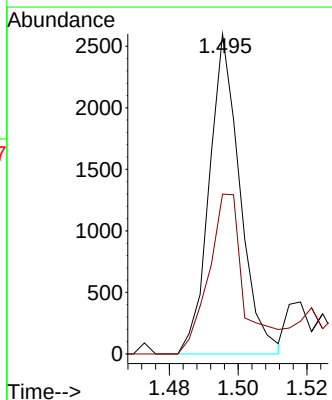
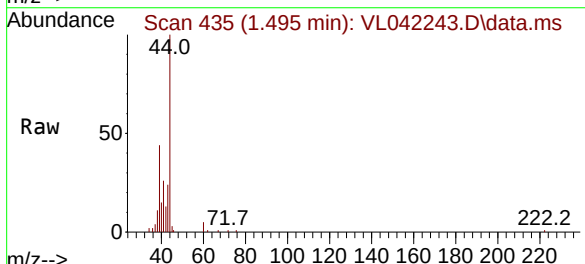
Instrument :
MSVOA_1
ClientSampleId :
SSSG-B10-4-04012025DL2

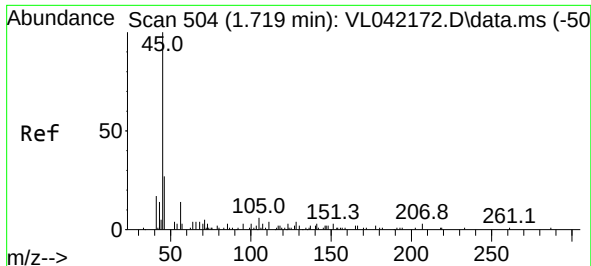
Tgt Ion: 49 Resp: 196689
Ion Ratio Lower Upper
49 100
128 45.7 22.9 68.5
130 58.7 28.8 86.4



#9
Propene
Concen: 0.118 ppbv
RT: 1.495 min Scan# 435
Delta R.T. 0.013 min
Lab File: VL042243.D
Acq: 07 Apr 2025 21:38

Tgt Ion: 41 Resp: 1609
Ion Ratio Lower Upper
41 100
42 70.7 55.4 83.2

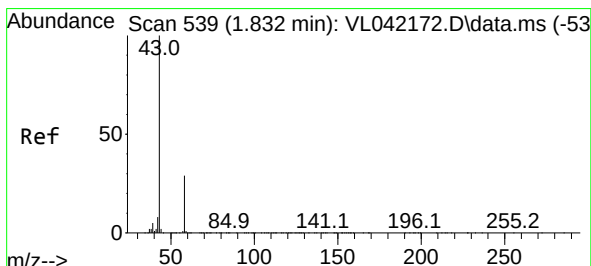
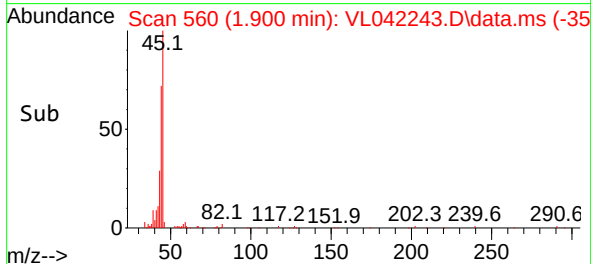
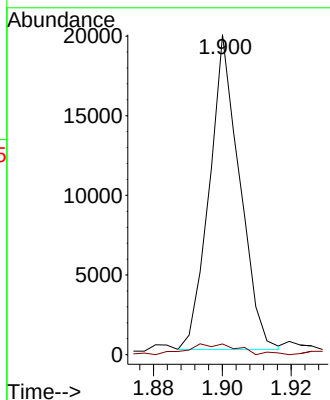
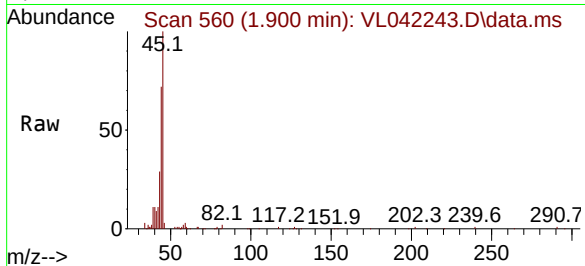




#13
 Ethanol
 Concen: 9.393 ppbv
 RT: 1.900 min Scan# 504
 Delta R.T. 0.181 min
 Lab File: VL042243.D
 Acq: 07 Apr 2025 21:38

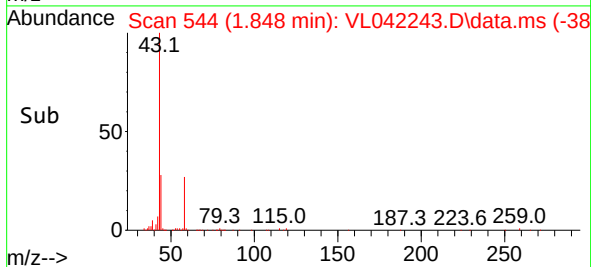
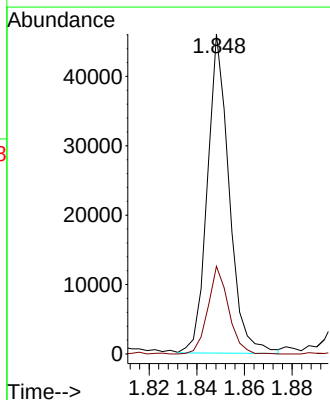
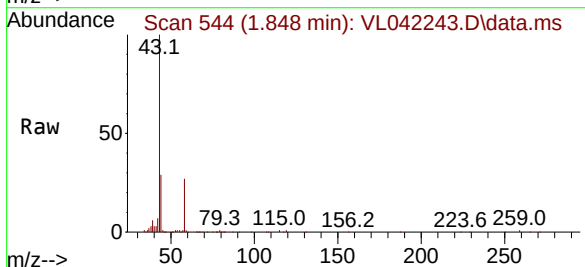
Instrument :
 MSVOA_1
 ClientSampleId :
 SSSG-B10-4-04012025DL2

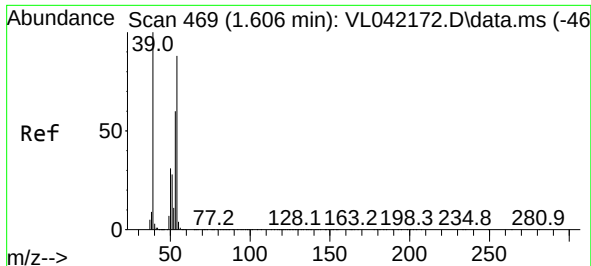
Tgt Ion: 45 Resp: 12074
 Ion Ratio Lower Upper
 45 100
 46 0.0 20.2 80.8#



#15
 Acetone
 Concen: 1.063 ppbv
 RT: 1.848 min Scan# 544
 Delta R.T. 0.016 min
 Lab File: VL042243.D
 Acq: 07 Apr 2025 21:38

Tgt Ion: 43 Resp: 29249
 Ion Ratio Lower Upper
 43 100
 58 26.1 23.2 34.8

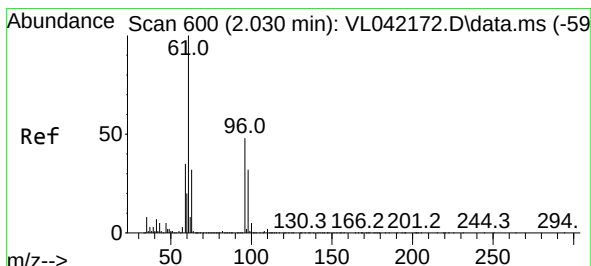
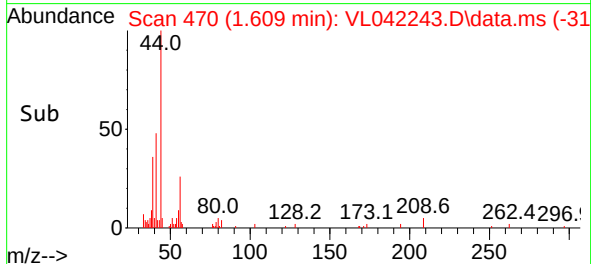
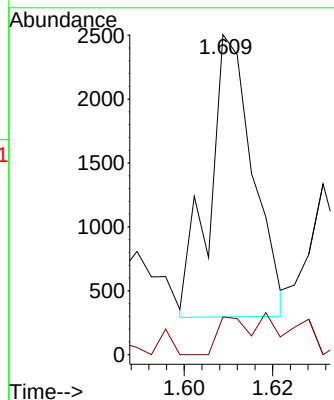
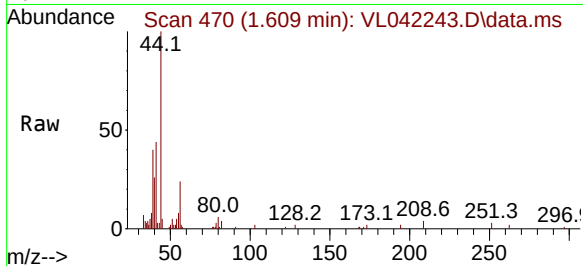




#16
1,3-Butadiene
Concen: 0.112 ppbv
RT: 1.609 min Scan# 41
Delta R.T. 0.003 min
Lab File: VL042243.D
Acq: 07 Apr 2025 21:38

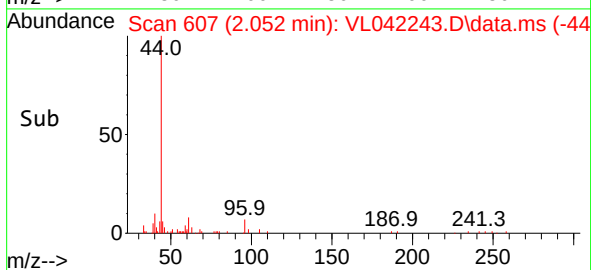
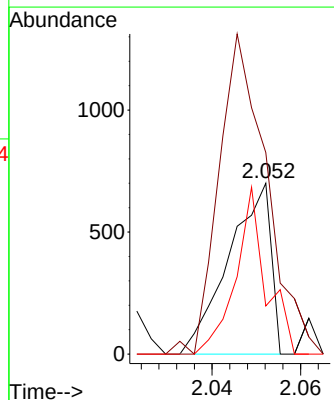
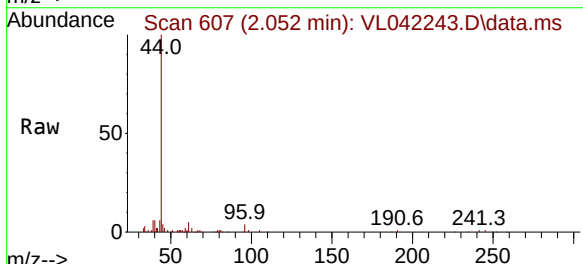
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B10-4-04012025DL2

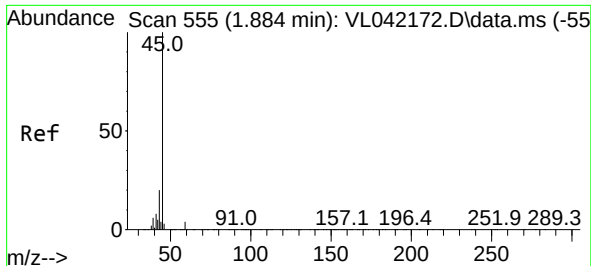
Tgt Ion: 39 Resp: 1511
Ion Ratio Lower Upper
39 100
54 21.6 60.7 91.1#



#18
1,1-Dichloroethene
Concen: 0.043 ppbv
RT: 2.052 min Scan# 607
Delta R.T. 0.022 min
Lab File: VL042243.D
Acq: 07 Apr 2025 21:38

Tgt Ion: 96 Resp: 464
Ion Ratio Lower Upper
96 100
61 110.6 167.6 251.4#
98 28.1 53.5 80.3#

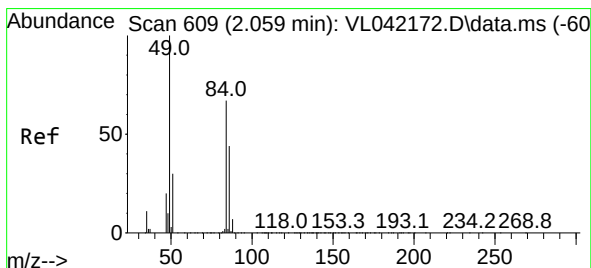
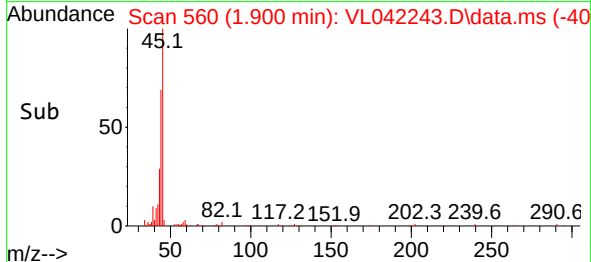
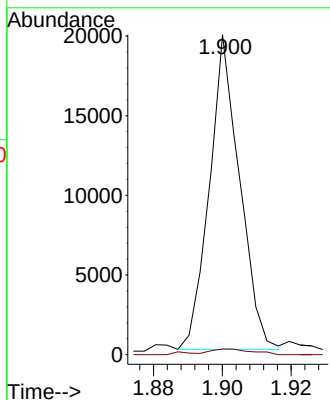
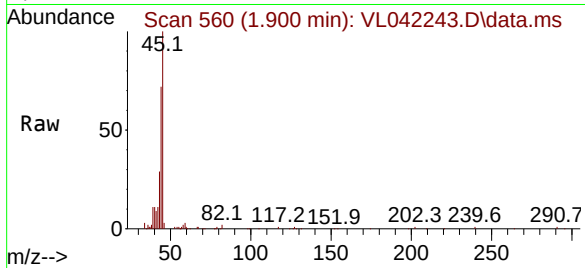




#19
Isopropyl Alcohol
Concen: 0.778 ppbv
RT: 1.900 min Scan# 511
Delta R.T. 0.016 min
Lab File: VL042243.D
Acq: 07 Apr 2025 21:38

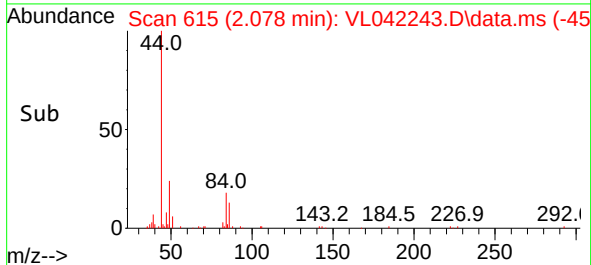
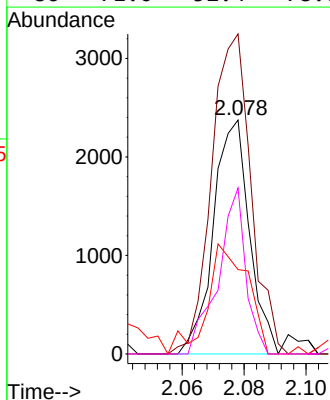
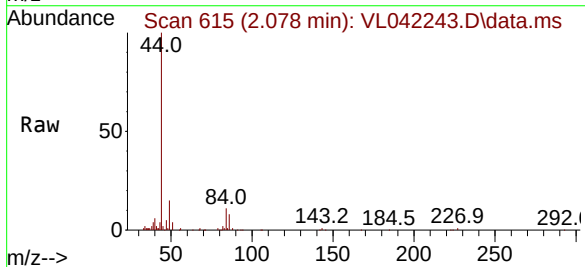
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B10-4-04012025DL2

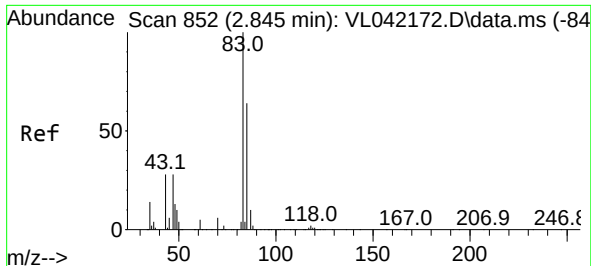
Tgt Ion: 45 Resp: 12074
Ion Ratio Lower Upper
45 100
58 3.0 36.9 55.3#



#20
Methylene Chloride
Concen: 0.187 ppbv
RT: 2.078 min Scan# 615
Delta R.T. 0.019 min
Lab File: VL042243.D
Acq: 07 Apr 2025 21:38

Tgt Ion: 84 Resp: 1917
Ion Ratio Lower Upper
84 100
49 133.7 120.2 180.4
51 36.1 37.4 56.0#
86 71.0 52.4 78.6





#29

Chloroform

Concen: 11.943 ppbv

RT: 2.871 min Scan# 8

Delta R.T. 0.026 min

Lab File: VL042243.D

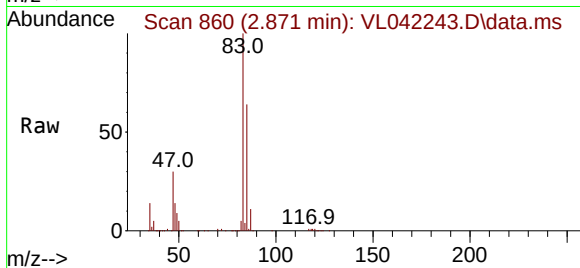
Acq: 07 Apr 2025 21:38

Instrument :

MSVOA_1

ClientSampleId :

SSSG-B10-4-04012025DL2

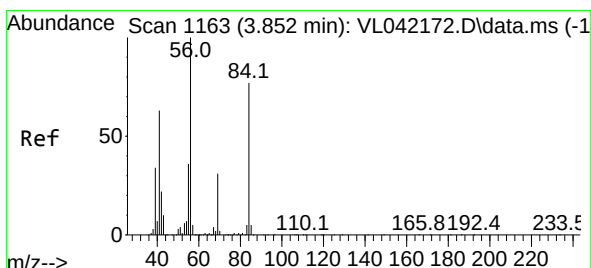
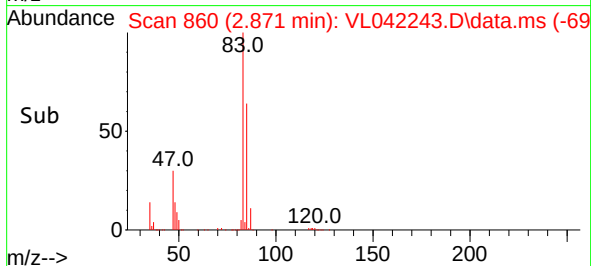
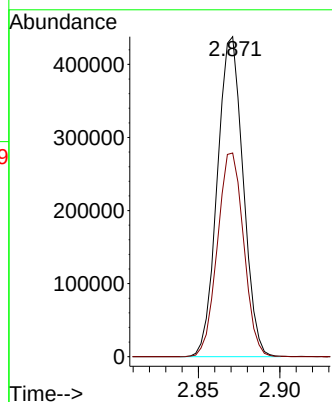


Tgt Ion: 83 Resp: 482007

Ion Ratio Lower Upper

83 100

85 63.7 51.4 77.2



#30

Cyclohexane

Concen: 0.046 ppbv

RT: 3.981 min Scan# 1203

Delta R.T. 0.129 min

Lab File: VL042243.D

Acq: 07 Apr 2025 21:38

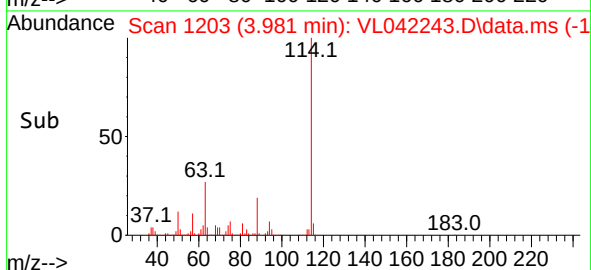
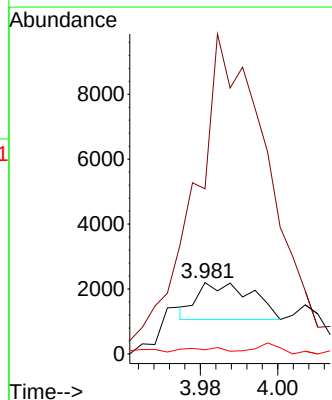
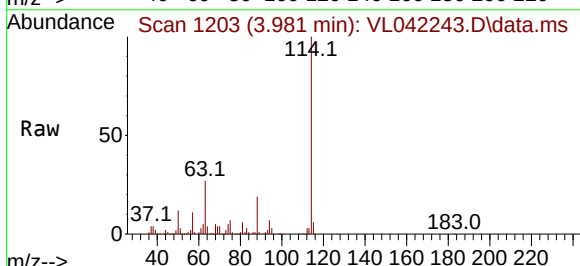
Tgt Ion: 84 Resp: 1101

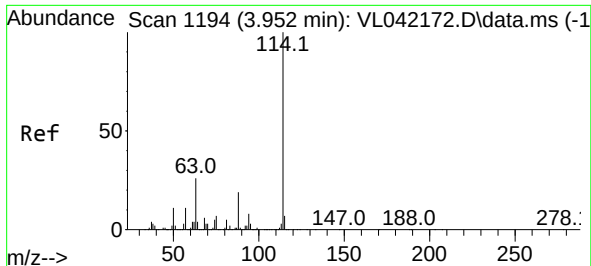
Ion Ratio Lower Upper

84 100

56 1250.7 102.8 154.2#

41 5.1 66.5 99.7#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.988 min Scan# 11

Delta R.T. 0.035 min

Lab File: VL042243.D

Acq: 07 Apr 2025 21:38

Instrument :

MSVOA_L

ClientSampleId :

SSSG-B10-4-04012025DL2

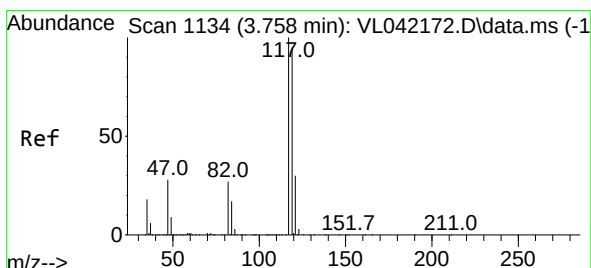
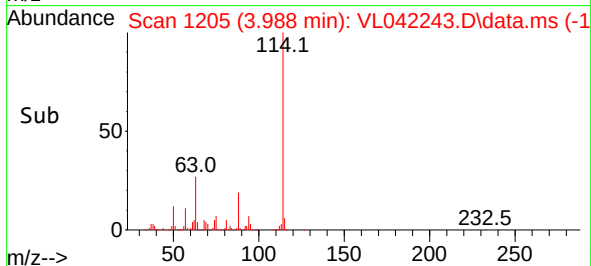
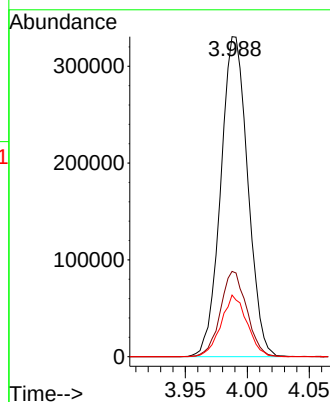
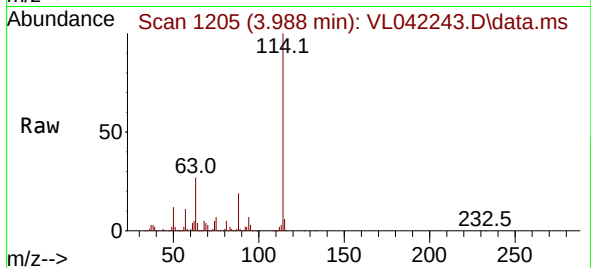
Tgt Ion:114 Resp: 503068

Ion Ratio Lower Upper

114 100

63 26.0 20.7 31.1

88 18.5 15.0 22.4



#35

Carbon Tetrachloride

Concen: 0.056 ppbv

RT: 3.793 min Scan# 1145

Delta R.T. 0.035 min

Lab File: VL042243.D

Acq: 07 Apr 2025 21:38

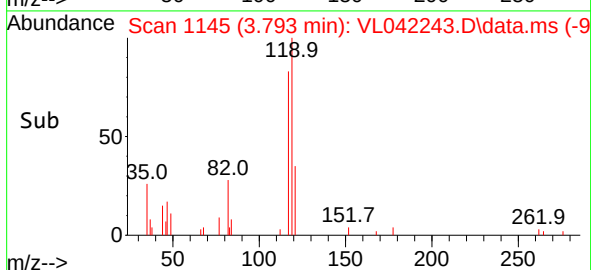
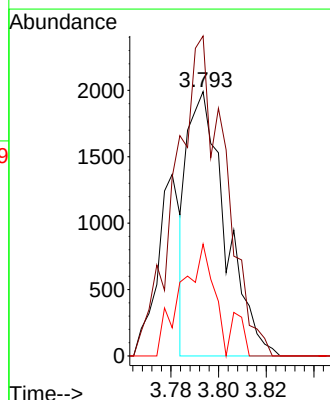
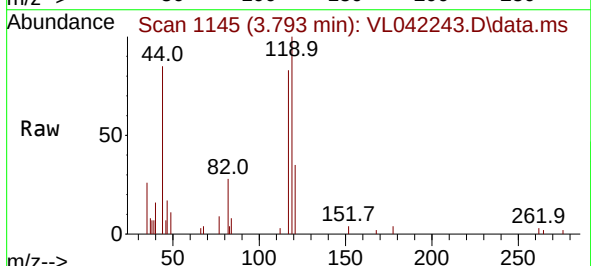
Tgt Ion:117 Resp: 2216

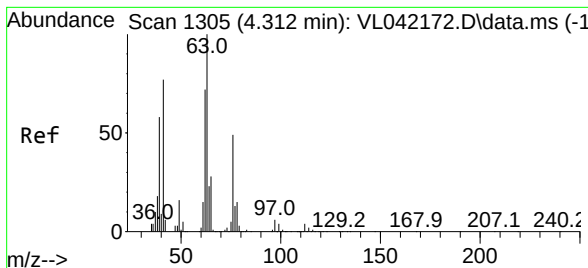
Ion Ratio Lower Upper

117 100

119 121.0 76.2 114.2#

121 42.3 24.2 36.4#





#39

1,2-Dichloropropane

Concen: 7.189 ppbv

RT: 3.988 min Scan# 11

Delta R.T. -0.324 min

Lab File: VL042243.D

Acq: 07 Apr 2025 21:38

Instrument :

MSVOA_L

ClientSampleId :

SSSG-B10-4-04012025DL2

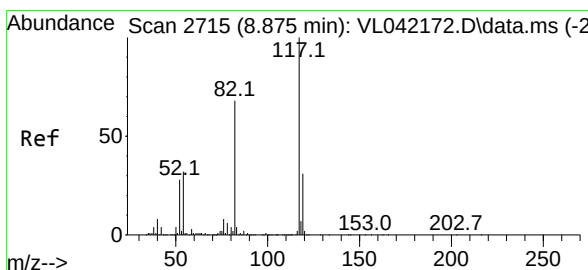
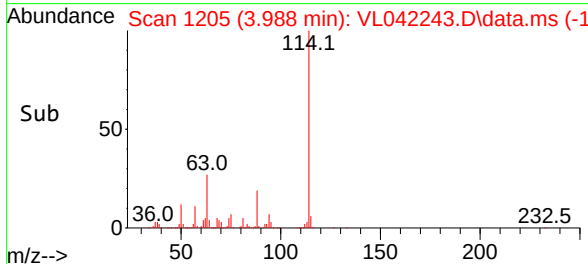
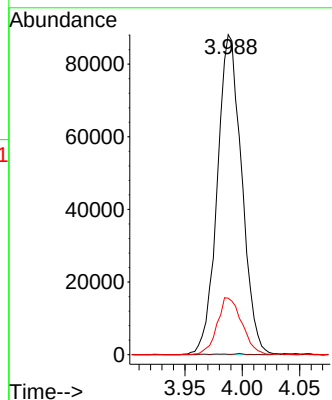
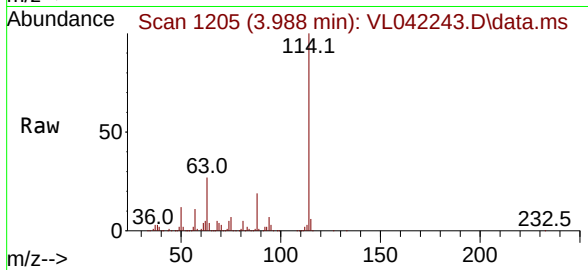
Tgt Ion: 63 Resp: 130575

Ion Ratio Lower Upper

63 100

41 0.1 61.7 92.5#

62 17.7 57.6 86.4#



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.911 min Scan# 2726

Delta R.T. 0.035 min

Lab File: VL042243.D

Acq: 07 Apr 2025 21:38

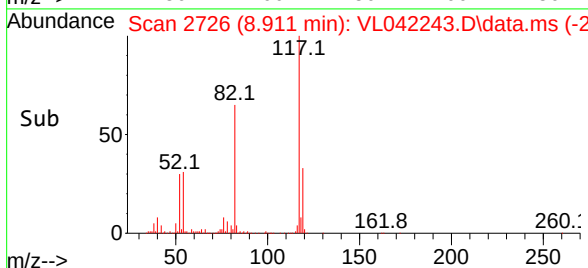
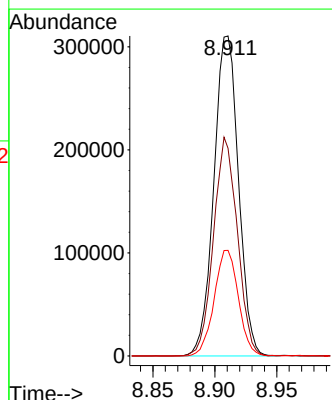
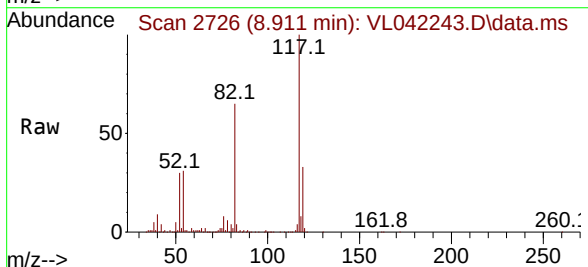
Tgt Ion: 117 Resp: 430861

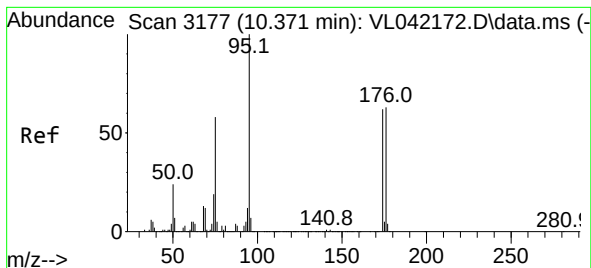
Ion Ratio Lower Upper

117 100

82 66.3 55.8 83.6

119 32.6 25.5 38.3





#68

1-Bromo-4-Fluorobenzene

Concen: 9.321 ppbv

RT: 10.399 min Scan# 31

Delta R.T. 0.029 min

Lab File: VL042243.D

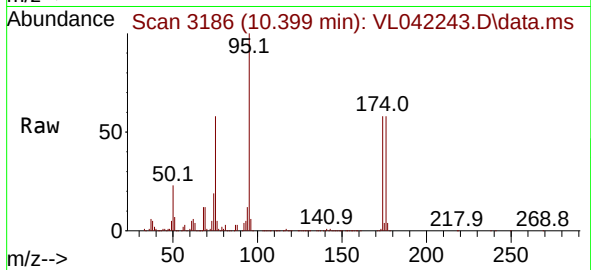
Acq: 07 Apr 2025 21:38

Instrument :

MSVOA_L

ClientSampleId :

SSSG-B10-4-04012025DL2



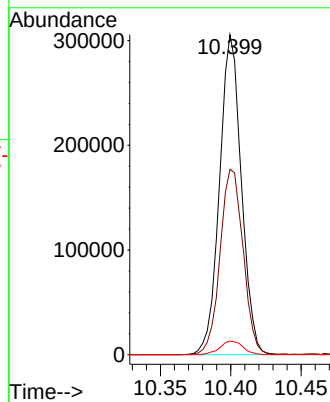
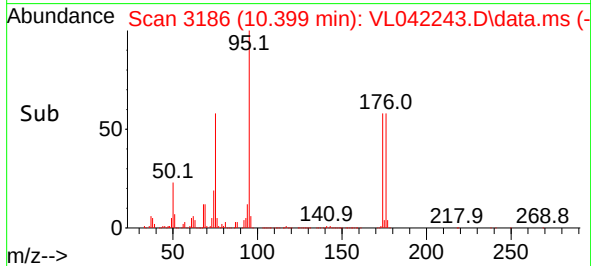
Tgt Ion: 95 Resp: 329790

Ion Ratio Lower Upper

95 100

174 61.3 50.6 76.0

175 4.5 3.8 5.6



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040725\
 Data File : VL042244.D
 Acq On : 07 Apr 2025 22:09
 Operator : SY/MD
 Sample : Q1725-03DL 4X
 Misc : 400mL/MSVOA_L
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SSSG-DUP-2-04012025DL

Quant Time: Apr 08 01:37:01 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri Mar 28 02:00:52 2025
 Response via : Initial Calibration

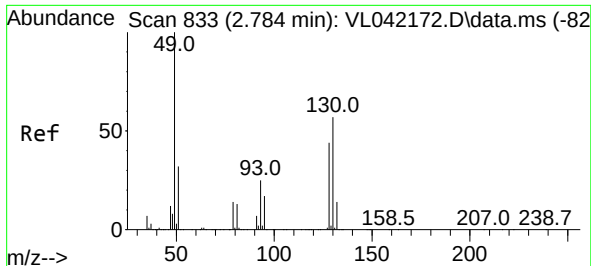
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	2.803	49	190938	10.000	ppbv	0.02
33) 1,4-Difluorobenzene	3.985	114	485801	10.000	ppbv	0.03
55) Chlorobenzene-d5	8.904	117	425989	10.000	ppbv	0.03
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.396	95	345971	9.890	ppbv	0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.900%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.505	85	3344	0.119	ppbv #	85
3) Chlorodifluoromethane	1.483	51	3442	0.120	ppbv	98
4) Chloromethane	1.538	50	1532	0.133	ppbv	100
9) Propene	1.496	41	1795	0.136	ppbv	98
11) Trichlorofluoromethane	1.884	101	1573	0.057	ppbv	95
13) Ethanol	1.894	45	547602	438.823	ppbv #	30
15) Acetone	1.845	43	291841	10.929	ppbv	95
16) 1,3-Butadiene	1.612	39	2053	0.157	ppbv #	36
17) tert-Butyl alcohol	1.897	59	20558	0.618	ppbv	98
19) Isopropyl Alcohol	1.894	45	547602	36.345	ppbv #	32
20) Methylene Chloride	2.072	84	2917	0.293	ppbv #	82
21) Allyl Chloride	1.971	41	1379	0.073	ppbv #	22
23) Vinyl Acetate	2.483	43	648	0.056	ppbv #	1
29) Chloroform	2.865	83	4185	0.107	ppbv #	81
34) 2-Butanone	2.580	43	3751	0.106	ppbv	97
39) 1,2-Dichloropropane	3.985	63	125530	7.157	ppbv #	22
53) Toluene	6.972	91	3122	0.055	ppbv #	1
58) Ethyl Benzene	9.374	91	19351	0.256	ppbv	98
59) m/p-Xylene	9.555	91	63265	1.047	ppbv	100
60) o-Xylene	9.985	91	12718	0.210	ppbv	94
61) Styrene	9.888	104	2020	0.067	ppbv	97

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

Quant Time: Apr 08 01:37:01 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Mar 28 02:00:52 2025
Response via : Initial Calibration

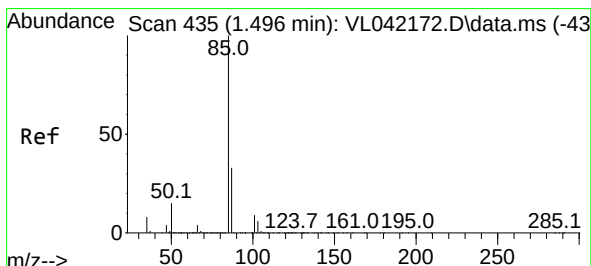
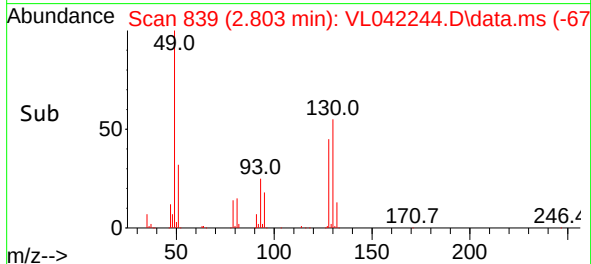
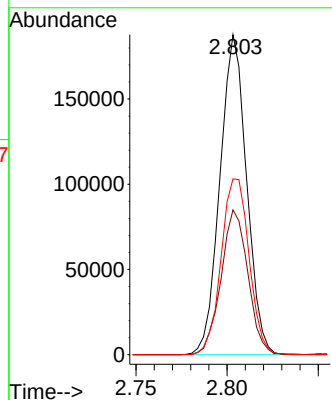
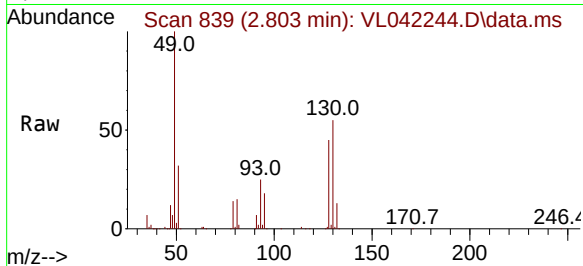




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 2.803 min Scan# 81
 Delta R.T. 0.019 min
 Lab File: VL042244.D
 Acq: 07 Apr 2025 22:09

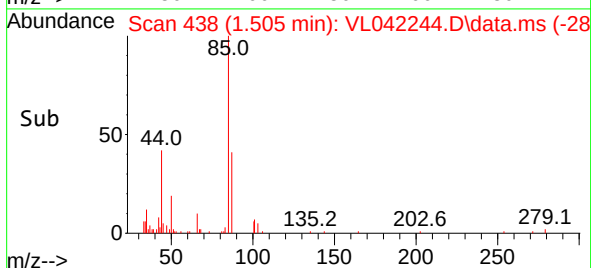
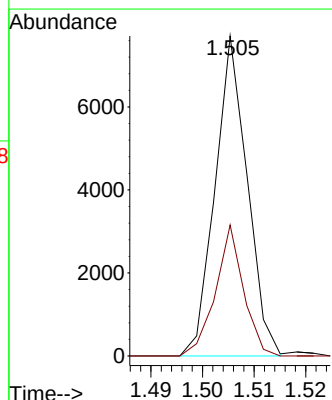
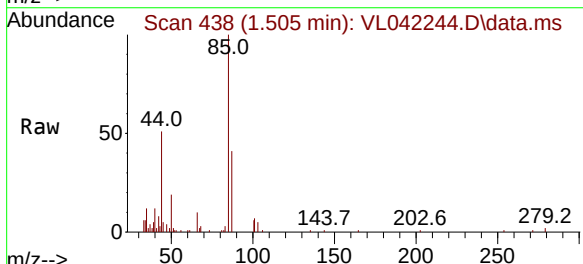
Instrument :
 MSVOA_1
 ClientSampleId :
 SSSG-DUP-2-04012025DL

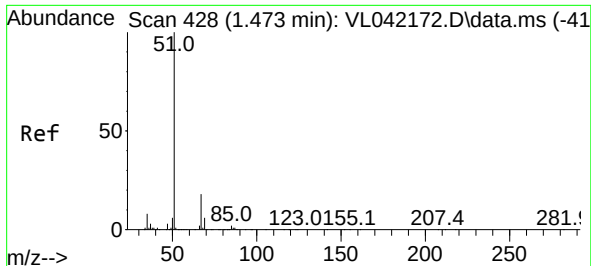
Tgt Ion: 49 Resp: 190938
 Ion Ratio Lower Upper
 49 100
 128 45.6 22.9 68.5
 130 57.8 28.8 86.4



#2
 Dichlorodifluoromethane
 Concen: 0.119 ppbv
 RT: 1.505 min Scan# 438
 Delta R.T. 0.010 min
 Lab File: VL042244.D
 Acq: 07 Apr 2025 22:09

Tgt Ion: 85 Resp: 3344
 Ion Ratio Lower Upper
 85 100
 87 41.0 26.1 39.1#

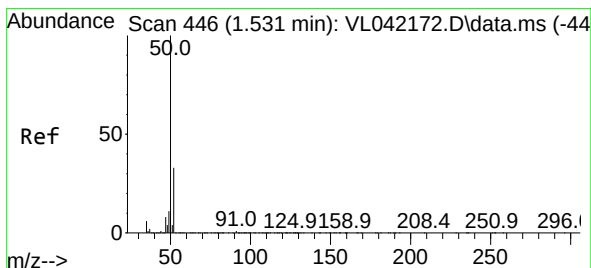
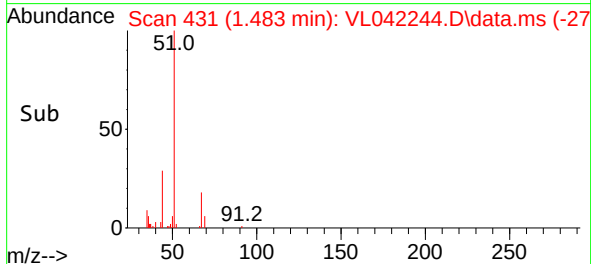
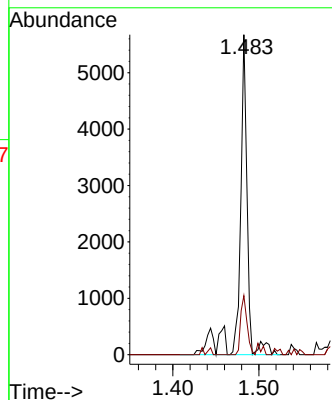
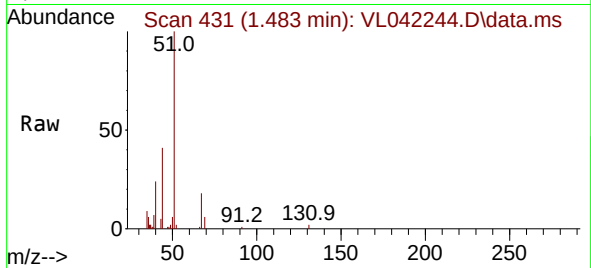




#3
Chlorodifluoromethane
Concen: 0.120 ppbv
RT: 1.483 min Scan# 41
Delta R.T. 0.010 min
Lab File: VL042244.D
Acq: 07 Apr 2025 22:09

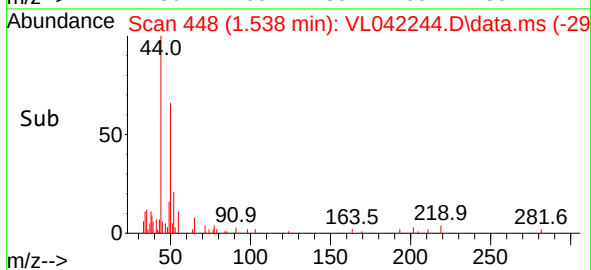
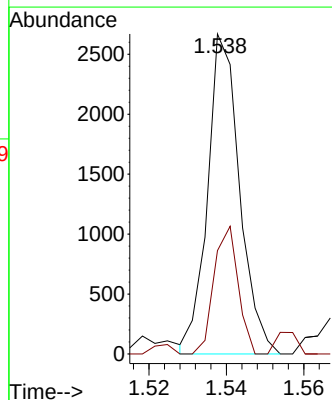
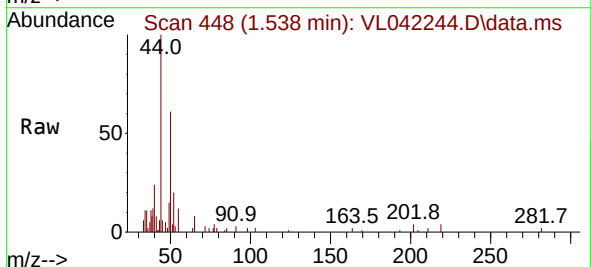
Instrument :
MSVOA_L
ClientSampleId :
SSSG-DUP-2-04012025DL

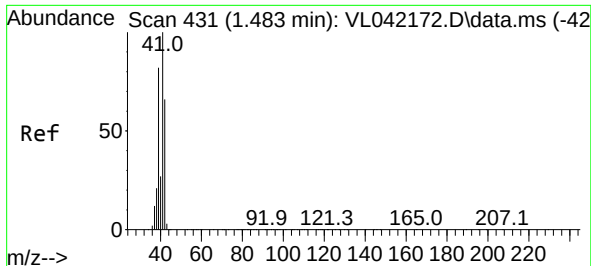
Tgt Ion: 51 Resp: 3442
Ion Ratio Lower Upper
51 100
67 18.0 15.0 22.6



#4
Chloromethane
Concen: 0.133 ppbv
RT: 1.538 min Scan# 448
Delta R.T. 0.006 min
Lab File: VL042244.D
Acq: 07 Apr 2025 22:09

Tgt Ion: 50 Resp: 1532
Ion Ratio Lower Upper
50 100
52 32.3 26.1 39.1





#9

Propene

Concen: 0.136 ppbv

RT: 1.496 min Scan# 41

Delta R.T. 0.013 min

Lab File: VL042244.D

Acq: 07 Apr 2025 22:09

Instrument :

MSVOA_L

ClientSampleId :

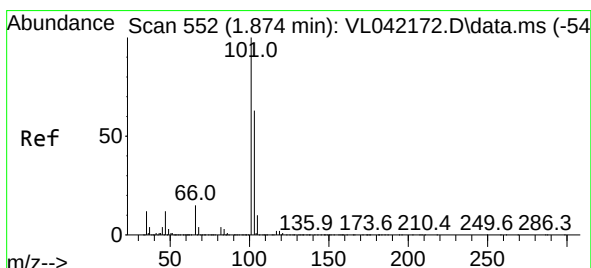
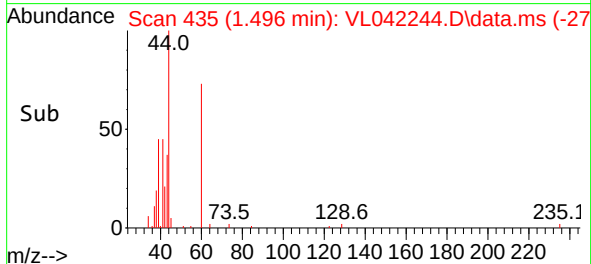
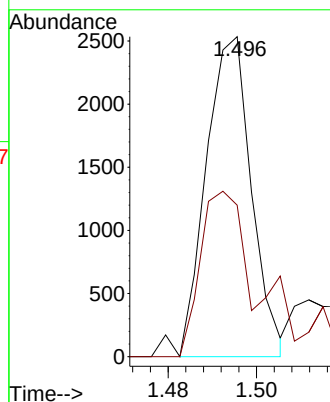
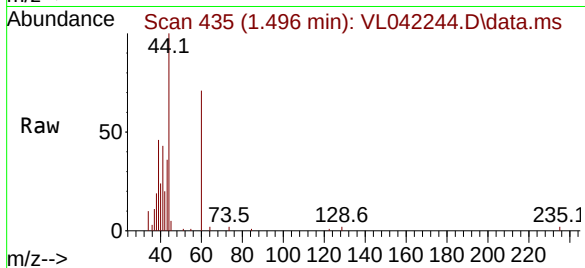
SSSG-DUP-2-04012025DL

Tgt Ion: 41 Resp: 1795

Ion Ratio Lower Upper

41 100

42 71.2 55.4 83.2



#11

Trichlorofluoromethane

Concen: 0.057 ppbv

RT: 1.884 min Scan# 555

Delta R.T. 0.010 min

Lab File: VL042244.D

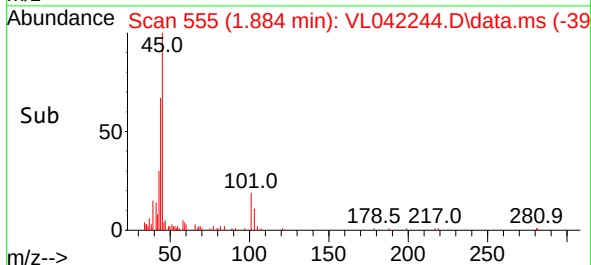
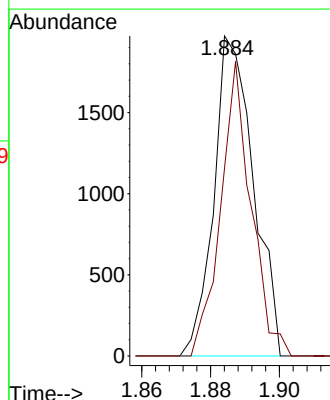
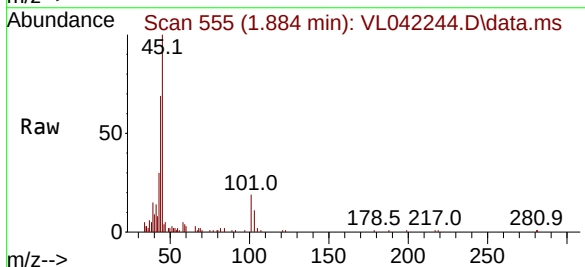
Acq: 07 Apr 2025 22:09

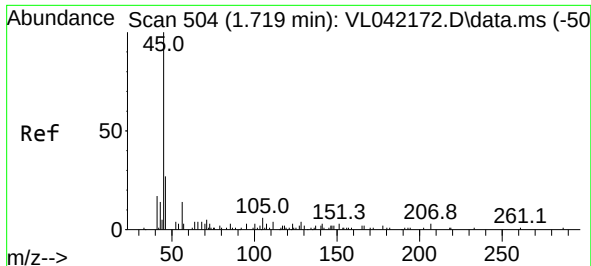
Tgt Ion: 101 Resp: 1573

Ion Ratio Lower Upper

101 100

103 58.7 50.2 75.2

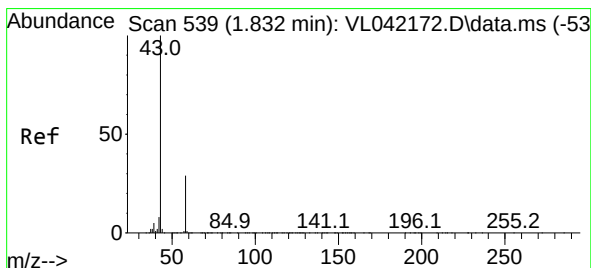
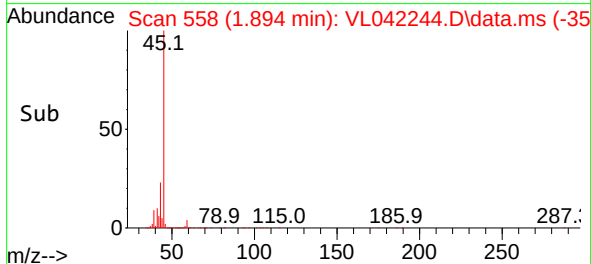
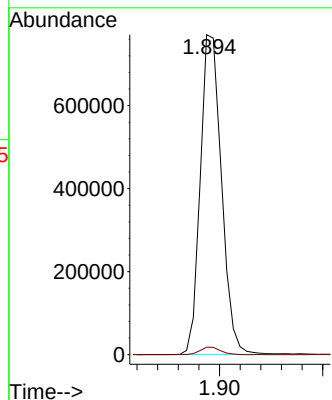
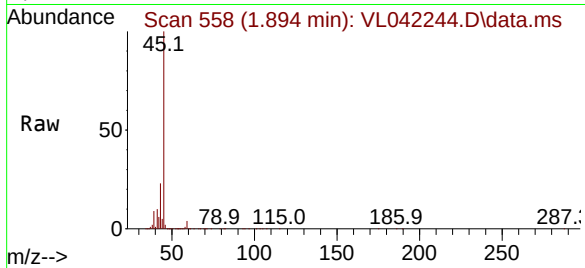




#13
Ethanol
Concen: 438.823 ppbv
RT: 1.894 min Scan# 51
Delta R.T. 0.175 min
Lab File: VL042244.D
Acq: 07 Apr 2025 22:09

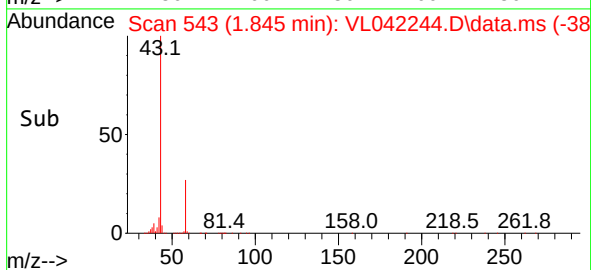
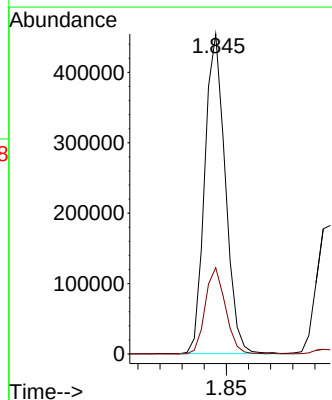
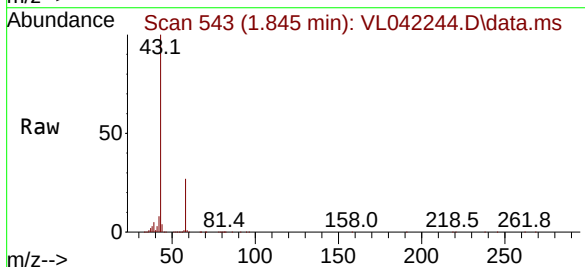
Instrument :
MSVOA_L
ClientSampleId :
SSSG-DUP-2-04012025DL

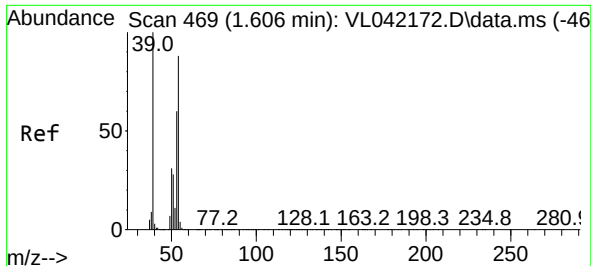
Tgt Ion: 45 Resp: 547602
Ion Ratio Lower Upper
45 100
46 2.3 20.2 80.8#



#15
Acetone
Concen: 10.929 ppbv
RT: 1.845 min Scan# 543
Delta R.T. 0.013 min
Lab File: VL042244.D
Acq: 07 Apr 2025 22:09

Tgt Ion: 43 Resp: 291841
Ion Ratio Lower Upper
43 100
58 26.6 23.2 34.8





#16

1,3-Butadiene

Concen: 0.157 ppbv

RT: 1.612 min Scan# 41

Delta R.T. 0.006 min

Lab File: VL042244.D

Acq: 07 Apr 2025 22:09

Instrument :

MSVOA_L

ClientSampleId :

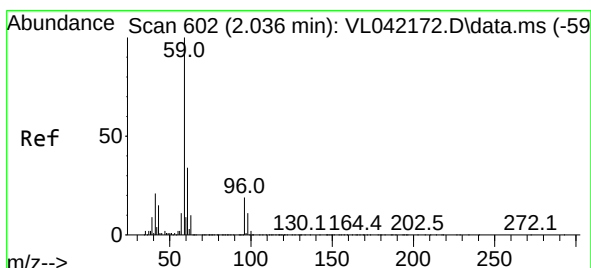
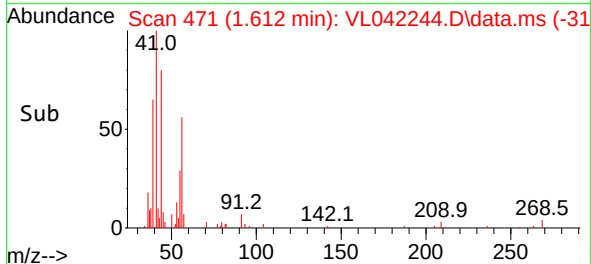
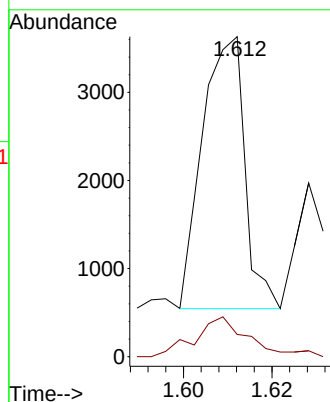
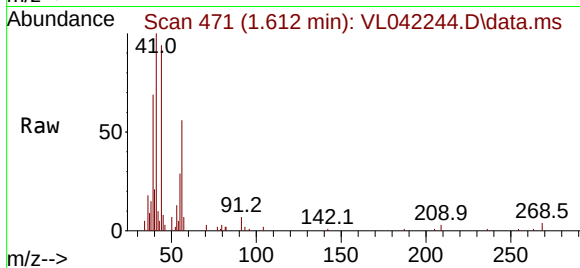
SSSG-DUP-2-04012025DL

Tgt Ion: 39 Resp: 2053

Ion Ratio Lower Upper

39 100

54 20.9 60.7 91.1#



#17

tert-Butyl alcohol

Concen: 0.618 ppbv

RT: 1.897 min Scan# 559

Delta R.T. -0.139 min

Lab File: VL042244.D

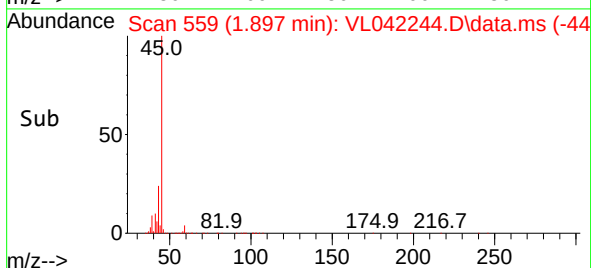
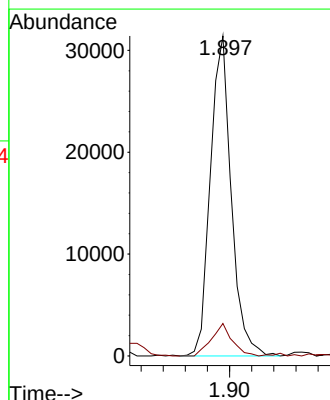
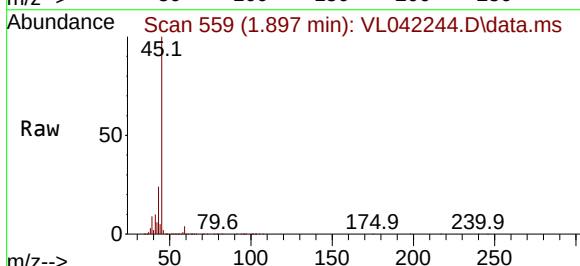
Acq: 07 Apr 2025 22:09

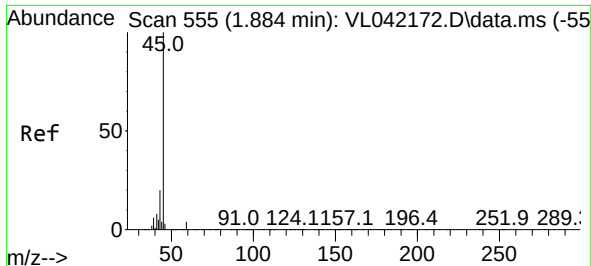
Tgt Ion: 59 Resp: 20558

Ion Ratio Lower Upper

59 100

57 10.4 8.9 13.3

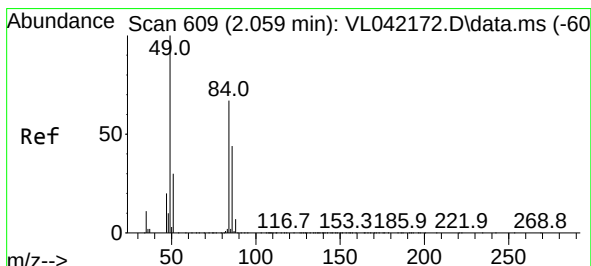
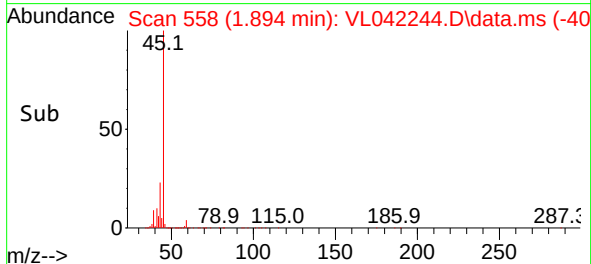
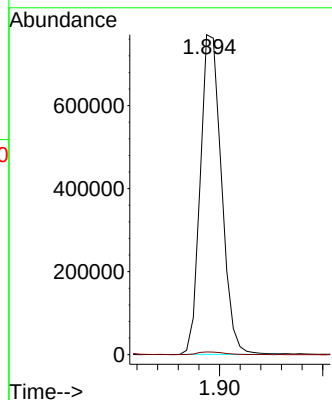
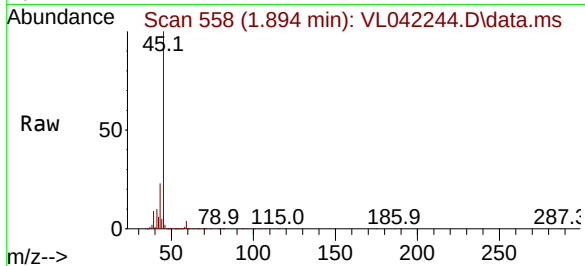




#19
Isopropyl Alcohol
Concen: 36.345 ppbv
RT: 1.894 min Scan# 511
Delta R.T. 0.010 min
Lab File: VL042244.D
Acq: 07 Apr 2025 22:09

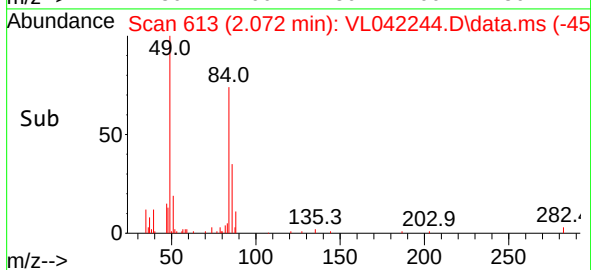
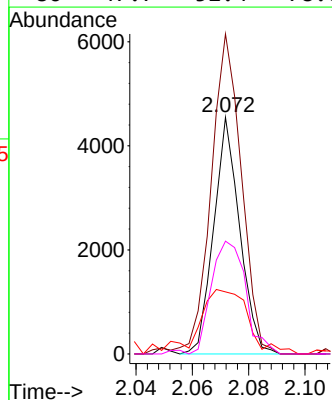
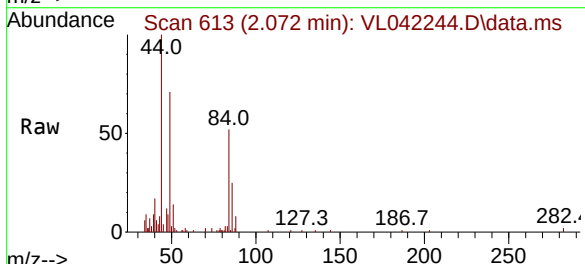
Instrument :
MSVOA_L
ClientSampleId :
SSSG-DUP-2-04012025DL

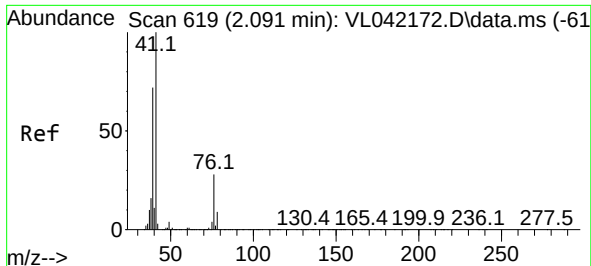
Tgt Ion: 45 Resp: 547602
Ion Ratio Lower Upper
45 100
58 1.2 36.9 55.3#



#20
Methylene Chloride
Concen: 0.293 ppbv
RT: 2.072 min Scan# 613
Delta R.T. 0.013 min
Lab File: VL042244.D
Acq: 07 Apr 2025 22:09

Tgt Ion: 84 Resp: 2917
Ion Ratio Lower Upper
84 100
49 135.2 120.2 180.4
51 24.3 37.4 56.0#
86 47.7 52.4 78.6#

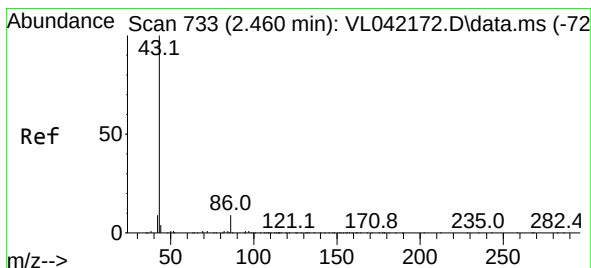
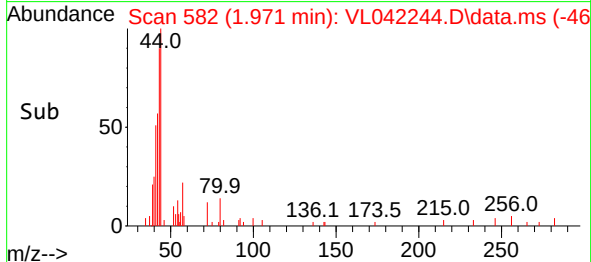
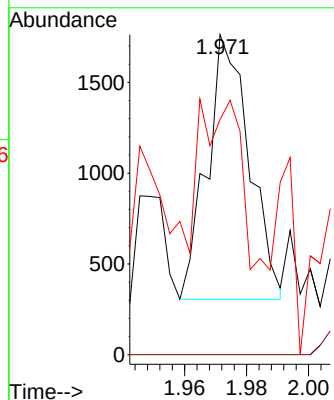
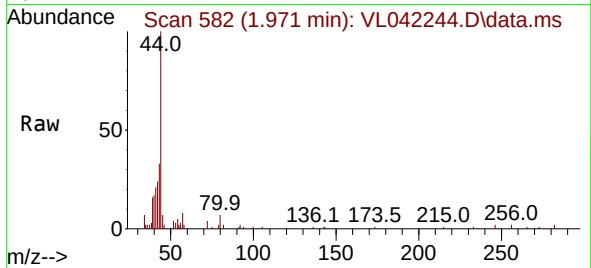




#21
 Allyl Chloride
 Concen: 0.073 ppbv
 RT: 1.971 min Scan# 51
 Delta R.T. -0.120 min
 Lab File: VL042244.D
 Acq: 07 Apr 2025 22:09

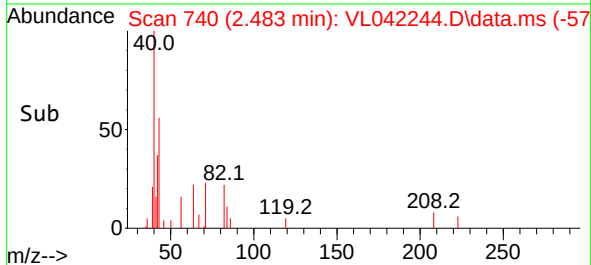
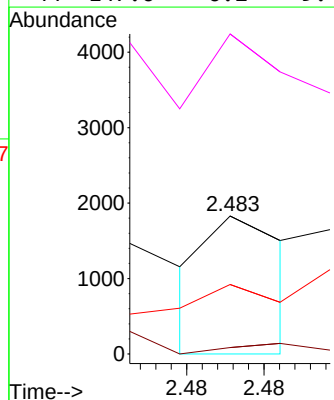
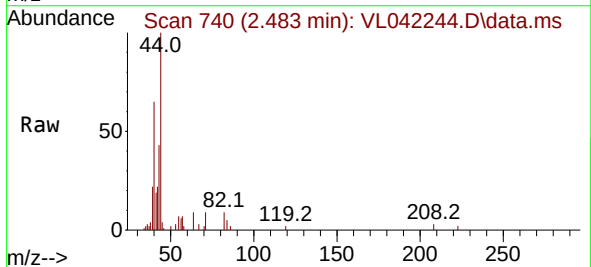
Instrument :
 MSVOA_1
 ClientSampleId :
 SSSG-DUP-2-04012025DL

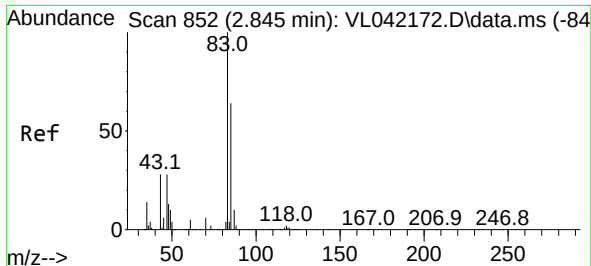
Tgt Ion: 41 Resp: 1379
 Ion Ratio Lower Upper
 41 100
 76 3.6 24.1 36.1#
 39 0.0 61.1 91.7#



#23
 Vinyl Acetate
 Concen: 0.056 ppbv
 RT: 2.483 min Scan# 740
 Delta R.T. 0.023 min
 Lab File: VL042244.D
 Acq: 07 Apr 2025 22:09

Tgt Ion: 43 Resp: 648
 Ion Ratio Lower Upper
 43 100
 86 12.6 5.5 8.3#
 42 46.7 8.6 13.0#
 44 147.6 6.2 9.4#





#29

Chloroform

Concen: 0.107 ppbv

RT: 2.865 min Scan# 81

Delta R.T. 0.019 min

Lab File: VL042244.D

Acq: 07 Apr 2025 22:09

Instrument :

MSVOA_L

ClientSampleId :

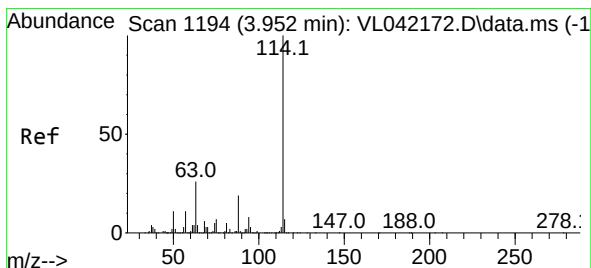
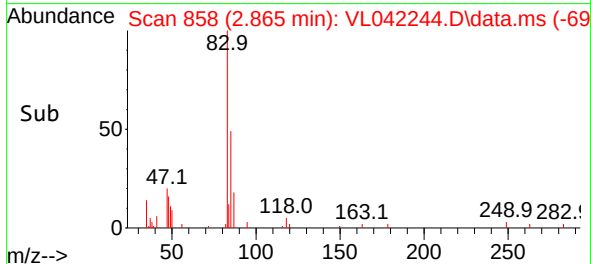
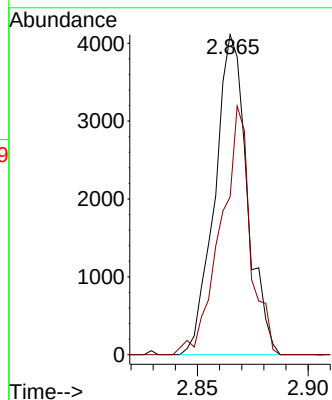
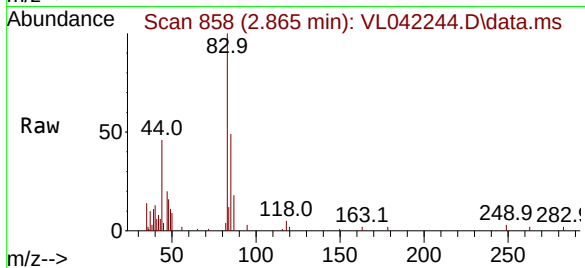
SSSG-DUP-2-04012025DL

Tgt Ion: 83 Resp: 4185

Ion Ratio Lower Upper

83 100

85 49.3 51.4 77.2#



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.985 min Scan# 1204

Delta R.T. 0.032 min

Lab File: VL042244.D

Acq: 07 Apr 2025 22:09

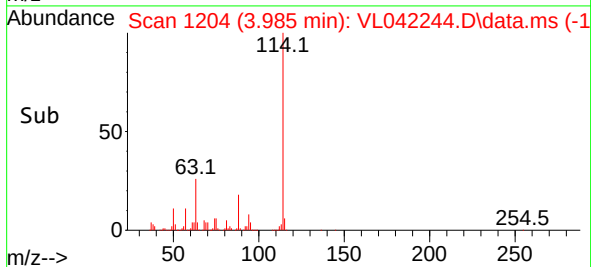
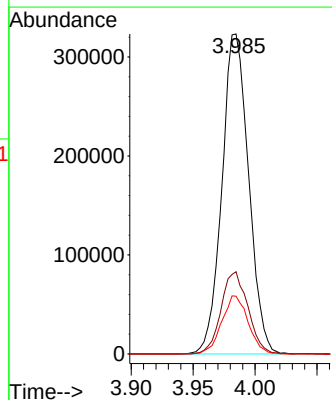
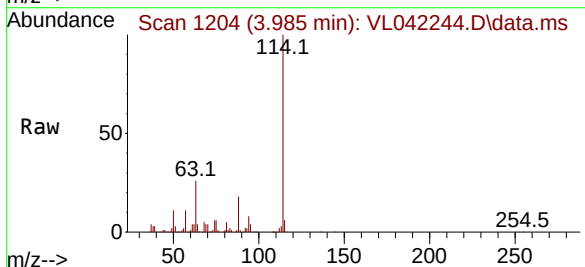
Tgt Ion: 114 Resp: 485801

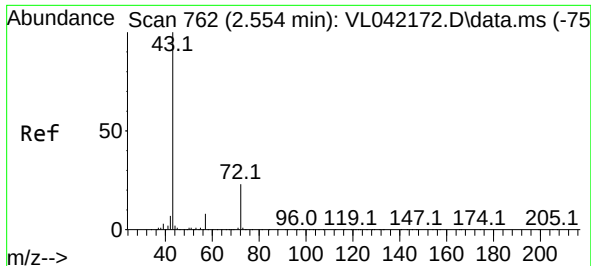
Ion Ratio Lower Upper

114 100

63 26.0 20.7 31.1

88 17.9 15.0 22.4

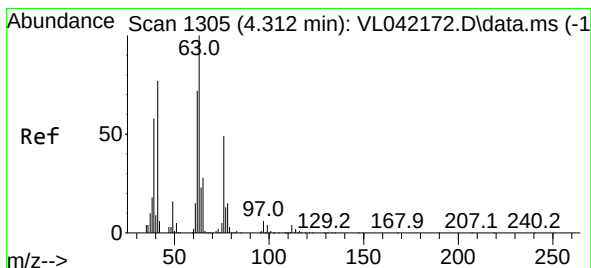
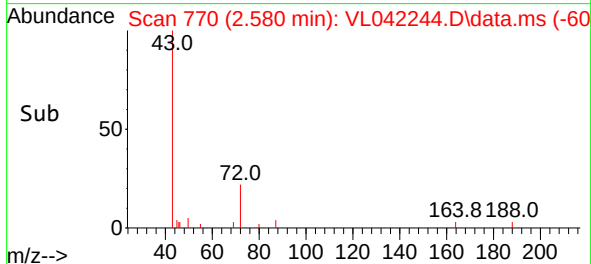
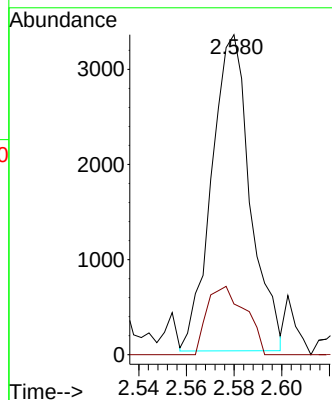
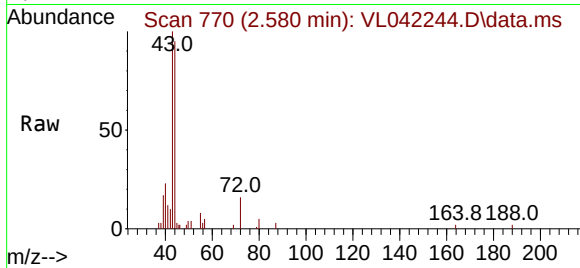




#34
2-Butanone
Concen: 0.106 ppbv
RT: 2.580 min Scan# 71
Delta R.T. 0.026 min
Lab File: VL042244.D
Acq: 07 Apr 2025 22:09

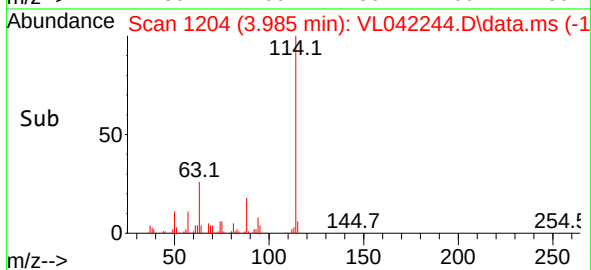
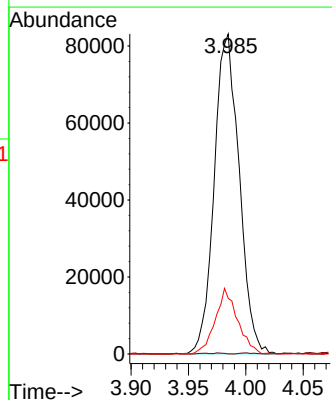
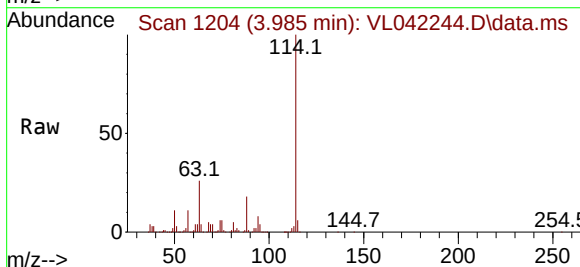
Instrument :
MSVOA_L
ClientSampleId :
SSSG-DUP-2-04012025DL

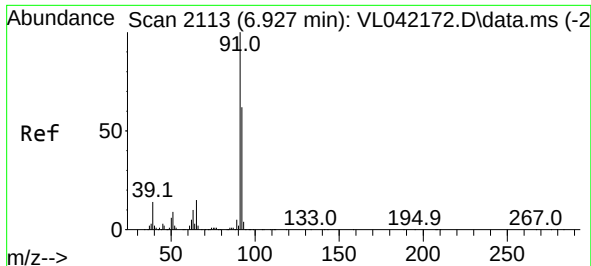
Tgt Ion: 43 Resp: 3751
Ion Ratio Lower Upper
43 100
72 21.4 18.2 27.2



#39
1,2-Dichloropropane
Concen: 7.157 ppbv
RT: 3.985 min Scan# 1204
Delta R.T. -0.327 min
Lab File: VL042244.D
Acq: 07 Apr 2025 22:09

Tgt Ion: 63 Resp: 125530
Ion Ratio Lower Upper
63 100
41 0.0 61.7 92.5#
62 17.4 57.6 86.4#

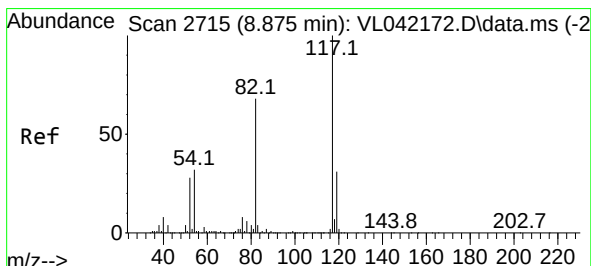
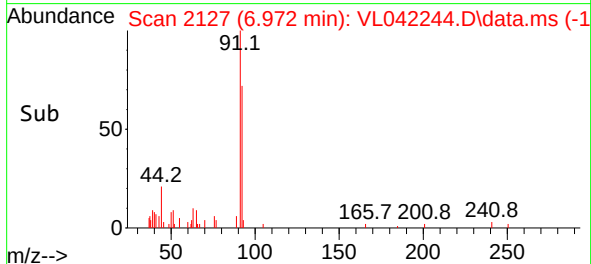
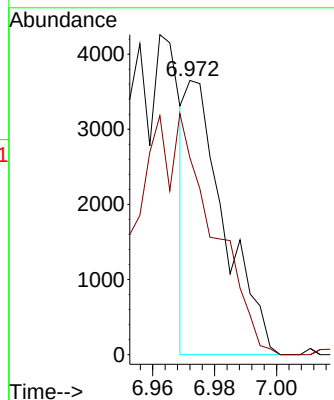
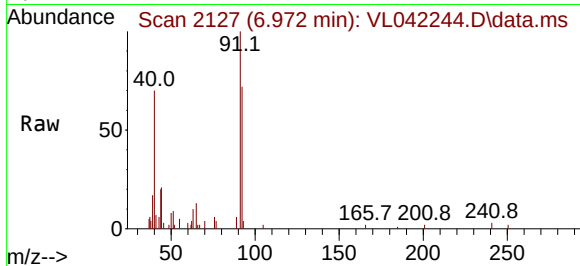




#53
Toluene
Concen: 0.055 ppbv
RT: 6.972 min Scan# 2113
Delta R.T. 0.045 min
Lab File: VL042244.D
Acq: 07 Apr 2025 22:09

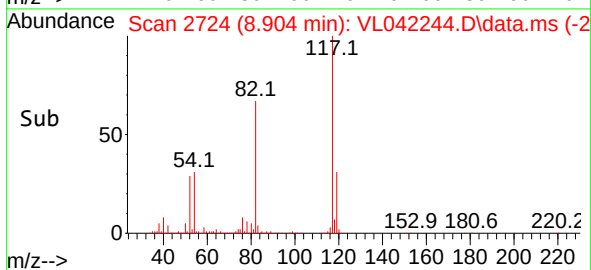
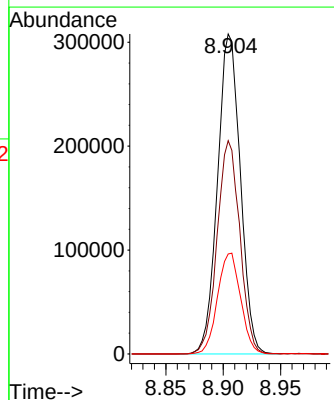
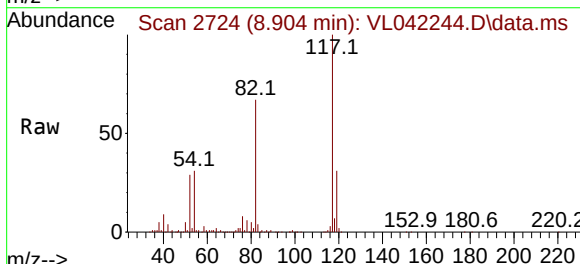
Instrument :
MSVOA_L
ClientSampleId :
SSSG-DUP-2-04012025DL

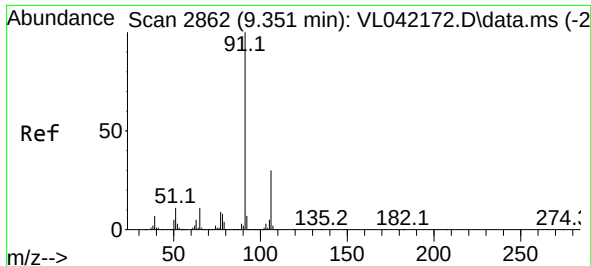
Tgt Ion: 91 Resp: 3122
Ion Ratio Lower Upper
91 100
92 189.7 48.4 72.6#



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.904 min Scan# 2724
Delta R.T. 0.029 min
Lab File: VL042244.D
Acq: 07 Apr 2025 22:09

Tgt Ion: 117 Resp: 425989
Ion Ratio Lower Upper
117 100
82 66.3 55.8 83.6
119 31.9 25.5 38.3

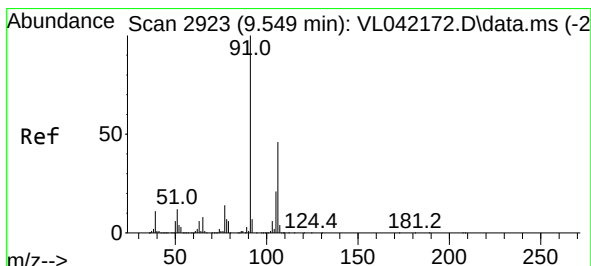
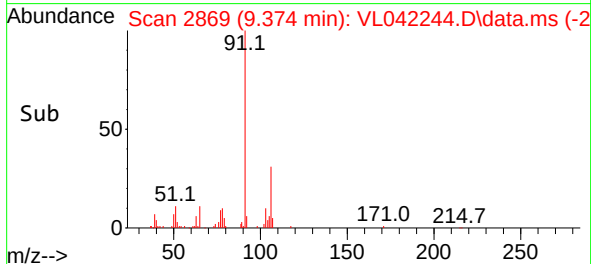
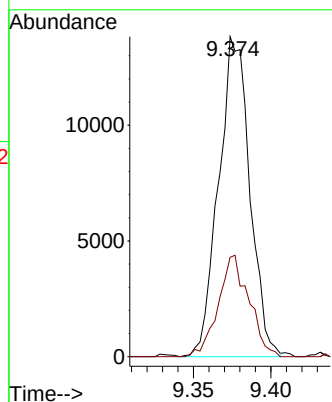
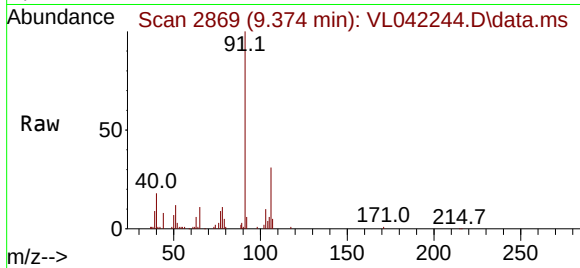




#58
Ethyl Benzene
Concen: 0.256 ppbv
RT: 9.374 min Scan# 21
Delta R.T. 0.023 min
Lab File: VL042244.D
Acq: 07 Apr 2025 22:09

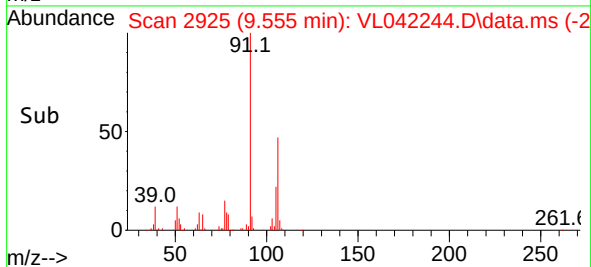
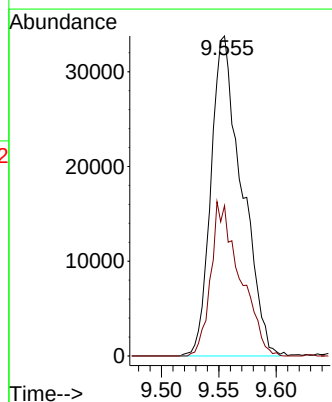
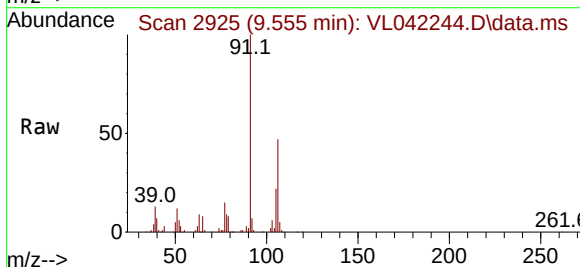
Instrument :
MSVOA_L
ClientSampleId :
SSSG-DUP-2-04012025DL

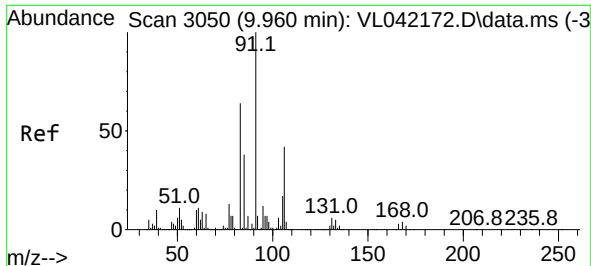
Tgt Ion: 91 Resp: 19351
Ion Ratio Lower Upper
91 100
106 31.0 24.2 36.2



#59
m/p-Xylene
Concen: 1.047 ppbv
RT: 9.555 min Scan# 2925
Delta R.T. 0.006 min
Lab File: VL042244.D
Acq: 07 Apr 2025 22:09

Tgt Ion: 91 Resp: 63265
Ion Ratio Lower Upper
91 100
106 45.6 36.4 54.6

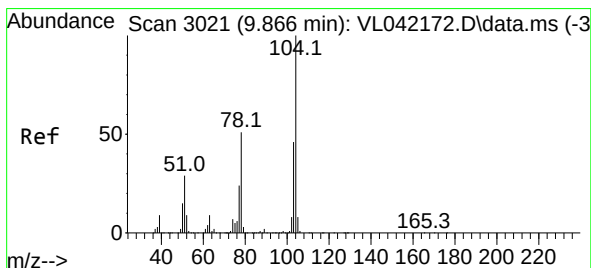
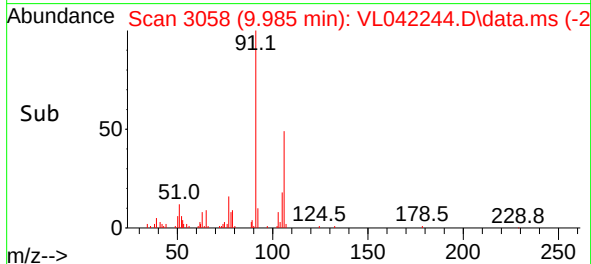
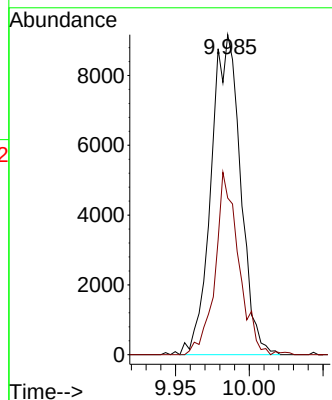
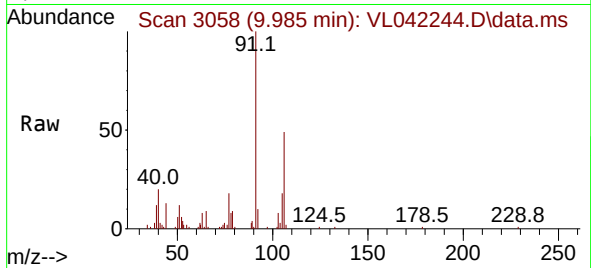




#60
o-Xylene
Concen: 0.210 ppbv
RT: 9.985 min Scan# 3058
Delta R.T. 0.026 min
Lab File: VL042244.D
Acq: 07 Apr 2025 22:09

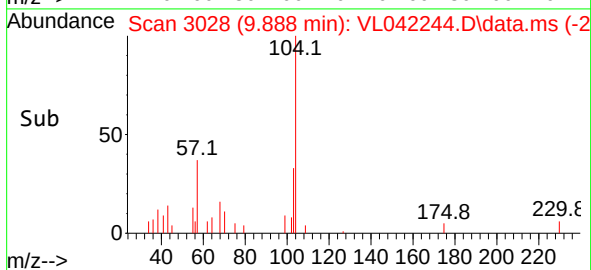
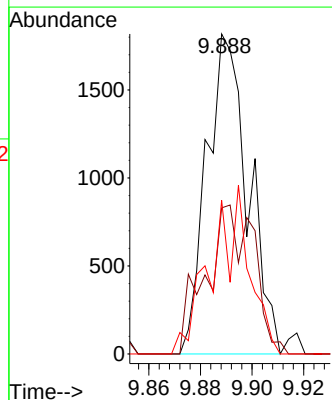
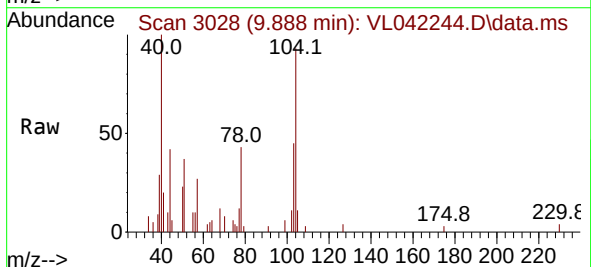
Instrument :
MSVOA_1
ClientSampleId :
SSSG-DUP-2-04012025DL

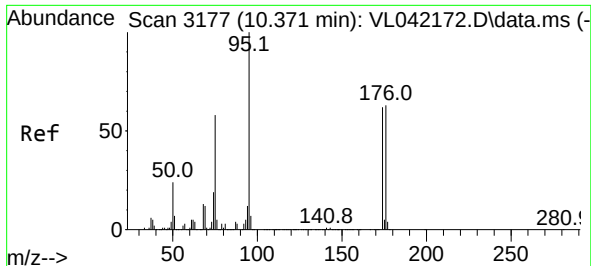
Tgt Ion: 91 Resp: 12718
Ion Ratio Lower Upper
91 100
106 45.7 20.8 62.5



#61
Styrene
Concen: 0.067 ppbv
RT: 9.888 min Scan# 3028
Delta R.T. 0.023 min
Lab File: VL042244.D
Acq: 07 Apr 2025 22:09

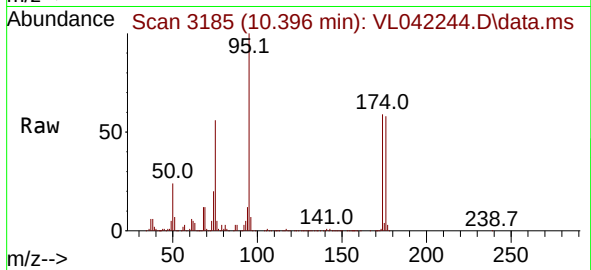
Tgt Ion:104 Resp: 2020
Ion Ratio Lower Upper
104 100
78 54.8 41.8 62.6
103 47.4 37.0 55.4



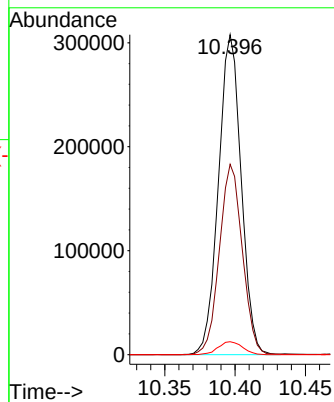
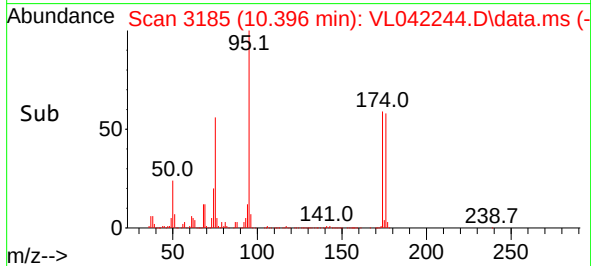


#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.890 ppbv
 RT: 10.396 min Scan# 31
 Delta R.T. 0.026 min
 Lab File: VL042244.D
 Acq: 07 Apr 2025 22:09

Instrument :
 MSVOA_L
 ClientSampleId :
 SSSG-DUP-2-04012025DL



Tgt Ion: 95 Resp: 345971
 Ion Ratio Lower Upper
 95 100
 174 60.2 50.6 76.0
 175 4.4 3.8 5.6



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040725\
 Data File : VL042245.D
 Acq On : 07 Apr 2025 22:40
 Operator : SY/MD
 Sample : Q1725-05 2X
 Misc : 400mL/MSVOA_L
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SSSG-B14-3-04012025

Quant Time: Apr 08 01:37:28 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri Mar 28 02:00:52 2025
 Response via : Initial Calibration

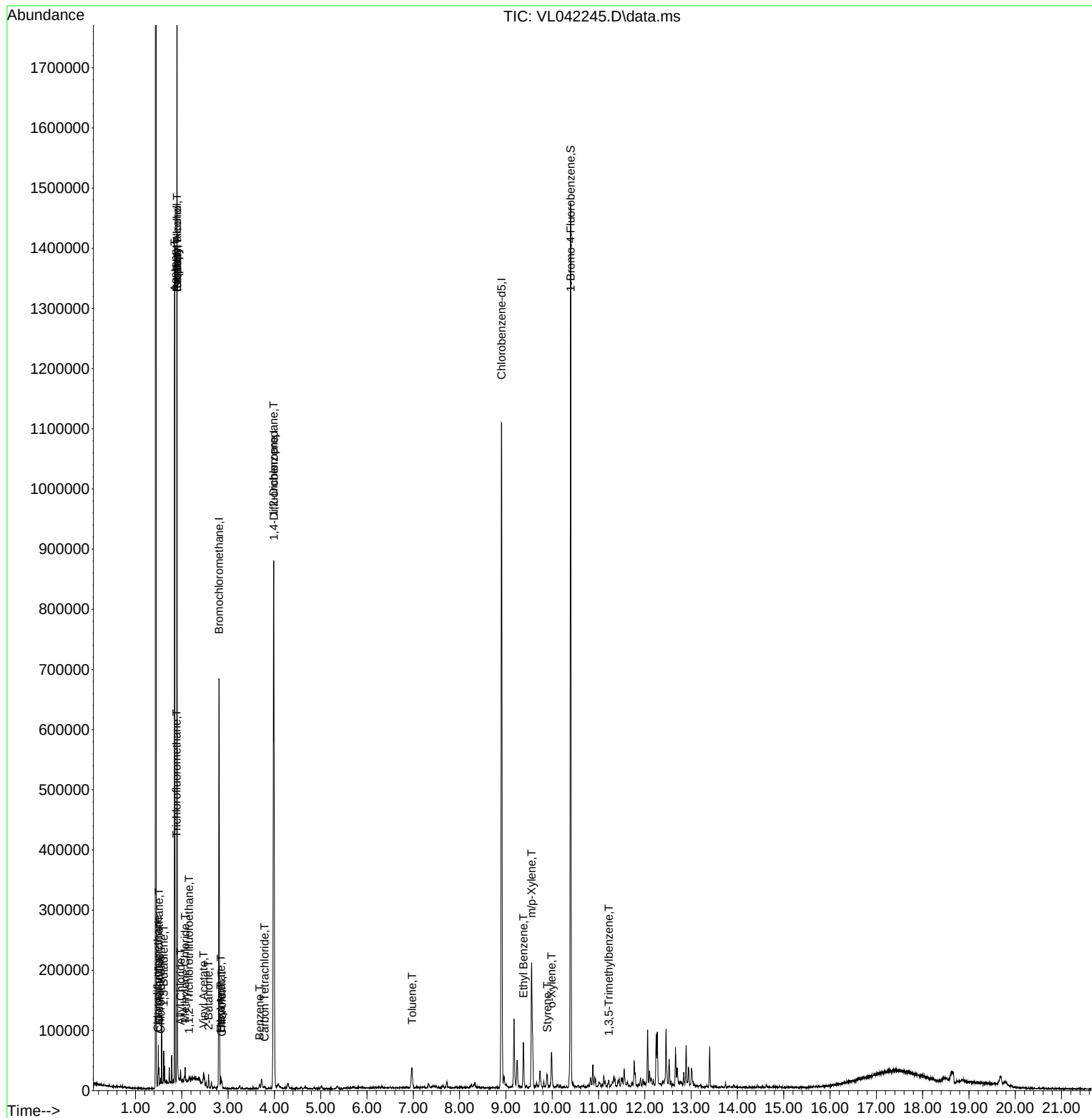
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.803	49	191155	10.000	ppbv	0.02
33) 1,4-Difluorobenzene	3.988	114	493918	10.000	ppbv	0.04
55) Chlorobenzene-d5	8.908	117	441320	10.000	ppbv	0.03
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.397	95	357099	9.853	ppbv	0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.500%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.506	85	6425	0.228	ppbv	93
3) Chlorodifluoromethane	1.483	51	6551	0.227	ppbv	100
4) Chloromethane	1.541	50	2684	0.233	ppbv	100
9) Propene	1.897	41	113954	8.623	ppbv	88
11) Trichlorofluoromethane	1.887	101	2858	0.104	ppbv #	75
12) 1,1,2-Trichlorotrifluo...	2.156	101	802	0.036	ppbv	94
13) Ethanol	1.897	45	1101017	881.302	ppbv #	31
15) Acetone	1.845	43	590313	22.081	ppbv	96
16) 1,3-Butadiene	1.609	39	5554	0.425	ppbv #	25
17) tert-Butyl alcohol	1.897	59	42857	1.287	ppbv	96
19) Isopropyl Alcohol	1.897	45	1101017	72.993	ppbv #	32
20) Methylene Chloride	2.072	84	3195	0.321	ppbv #	94
21) Allyl Chloride	1.975	41	2742	0.145	ppbv #	21
23) Vinyl Acetate	2.470	43	12740	1.101	ppbv #	91
25) Ethyl Acetate	2.845	43	2924	0.042	ppbv #	65
26) Hexane	2.842	57	3476	0.130	ppbv #	33
29) Chloroform	2.865	83	4102	0.105	ppbv	91
34) 2-Butanone	2.577	43	12837	0.358	ppbv	97
35) Carbon Tetrachloride	3.791	117	1273	0.033	ppbv #	66
36) Benzene	3.681	78	2854	0.058	ppbv #	90
39) 1,2-Dichloropropane	3.985	63	129244	7.248	ppbv #	22
53) Toluene	6.972	91	22311	0.384	ppbv	97
58) Ethyl Benzene	9.377	91	35929	0.458	ppbv	96
59) m/p-Xylene	9.555	91	125540	2.006	ppbv	99
60) o-Xylene	9.986	91	25937	0.413	ppbv	100
61) Styrene	9.895	104	6211	0.200	ppbv	92
73) 1,3,5-Trimethylbenzene	11.219	105	2628	0.039	ppbv	98

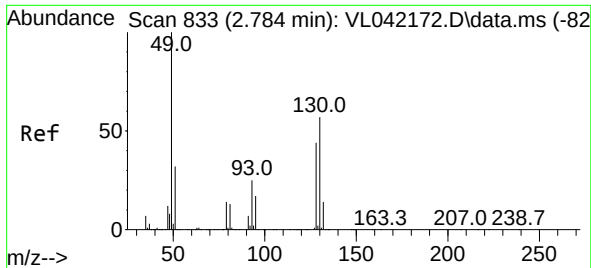
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040725\
Data File : VL042245.D
Acq On : 07 Apr 2025 22:40
Operator : SY/MD
Sample : Q1725-05 2X
Misc : 400mL/MSVOA_L
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
SSSG-B14-3-04012025

Quant Time: Apr 08 01:37:28 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Fri Mar 28 02:00:52 2025
Response via : Initial Calibration

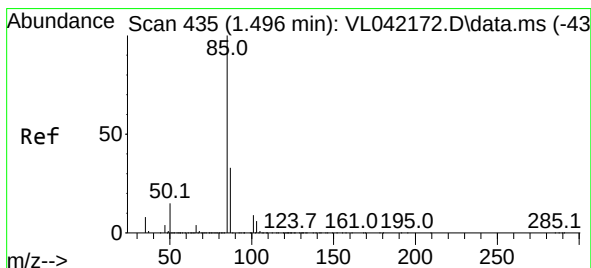
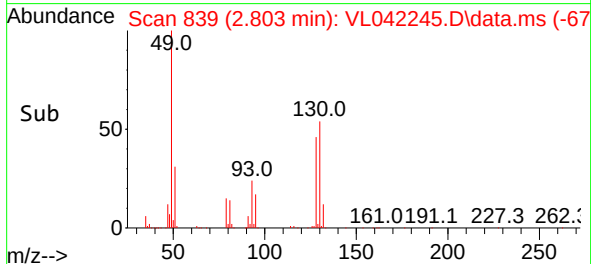
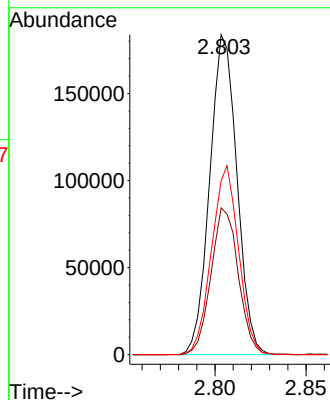
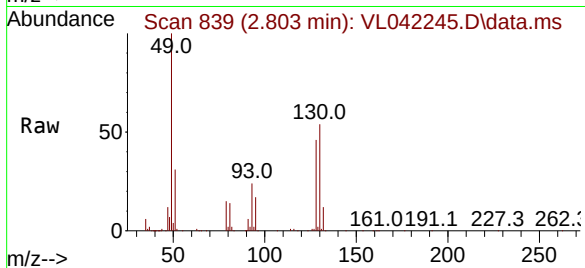




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 2.803 min Scan# 81
 Delta R.T. 0.019 min
 Lab File: VL042245.D
 Acq: 07 Apr 2025 22:40

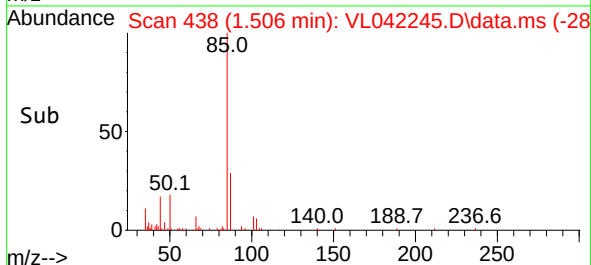
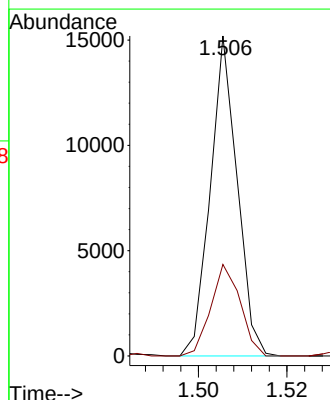
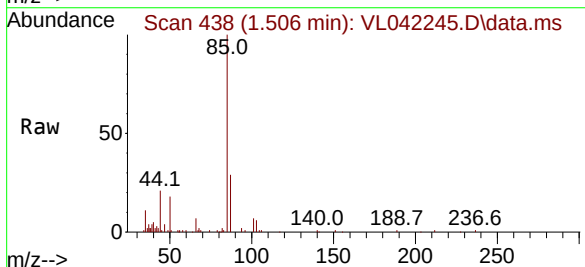
Instrument :
 MSVOA_L
 ClientSampleId :
 SSSG-B14-3-04012025

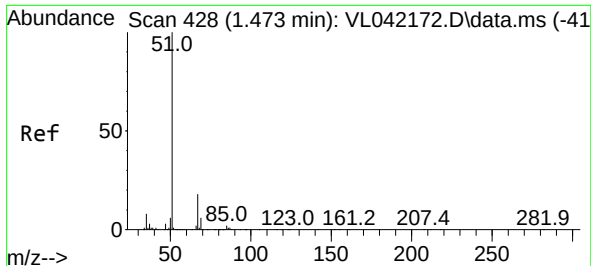
Tgt Ion: 49 Resp: 191155
 Ion Ratio Lower Upper
 49 100
 128 46.0 22.9 68.5
 130 58.6 28.8 86.4



#2
 Dichlorodifluoromethane
 Concen: 0.228 ppbv
 RT: 1.506 min Scan# 438
 Delta R.T. 0.010 min
 Lab File: VL042245.D
 Acq: 07 Apr 2025 22:40

Tgt Ion: 85 Resp: 6425
 Ion Ratio Lower Upper
 85 100
 87 28.6 26.1 39.1

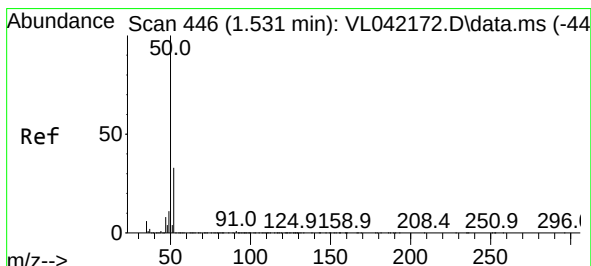
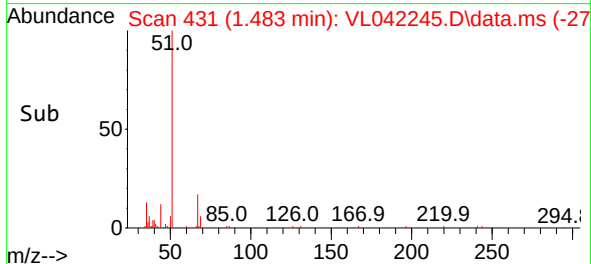
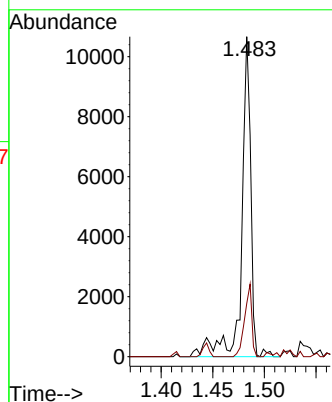
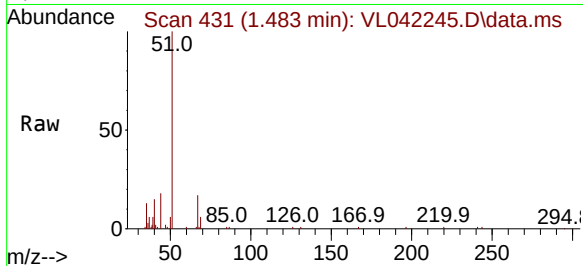




#3
Chlorodifluoromethane
Concen: 0.227 ppbv
RT: 1.483 min Scan# 41
Delta R.T. 0.010 min
Lab File: VL042245.D
Acq: 07 Apr 2025 22:40

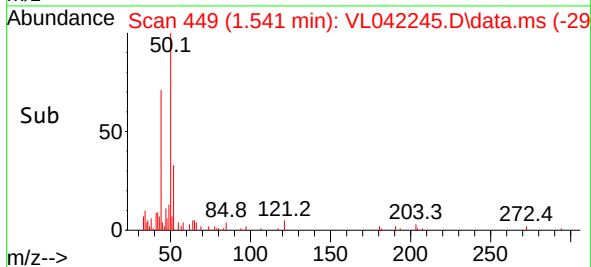
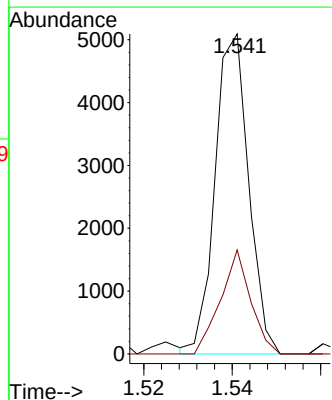
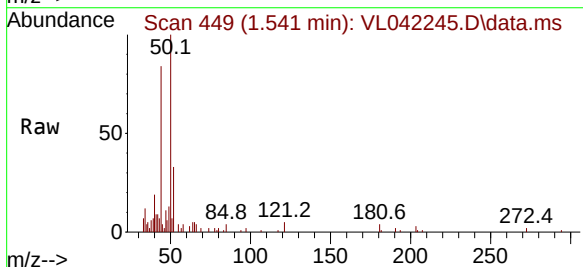
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B14-3-04012025

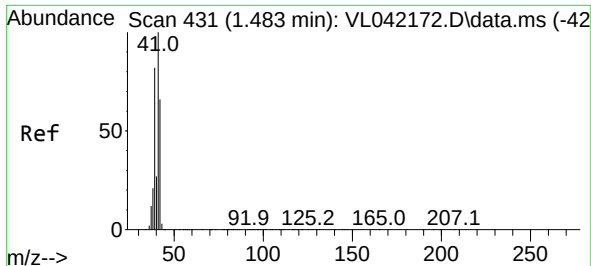
Tgt Ion: 51 Resp: 6551
Ion Ratio Lower Upper
51 100
67 18.8 15.0 22.6



#4
Chloromethane
Concen: 0.233 ppbv
RT: 1.541 min Scan# 449
Delta R.T. 0.010 min
Lab File: VL042245.D
Acq: 07 Apr 2025 22:40

Tgt Ion: 50 Resp: 2684
Ion Ratio Lower Upper
50 100
52 32.5 26.1 39.1





#9

Propene

Concen: 8.623 ppbv

RT: 1.897 min Scan# 51

Delta R.T. 0.414 min

Lab File: VL042245.D

Acq: 07 Apr 2025 22:40

Instrument :

MSVOA_1

ClientSampleId :

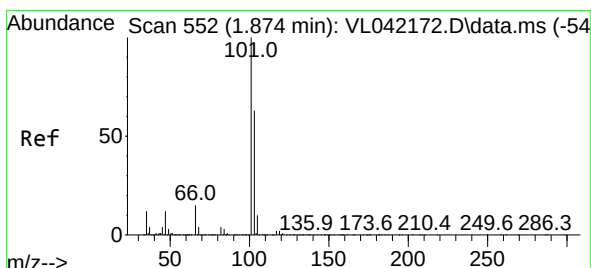
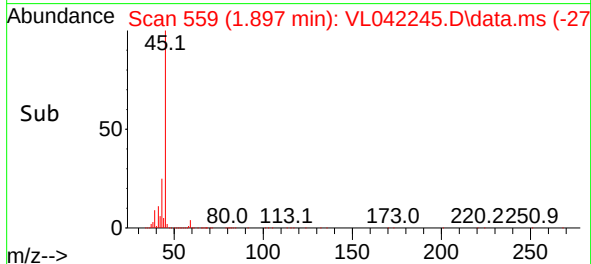
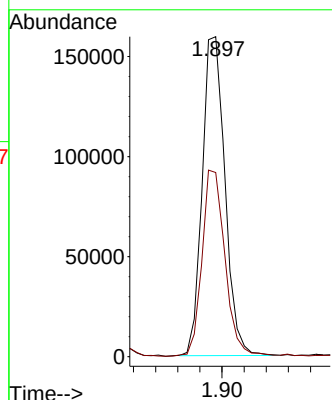
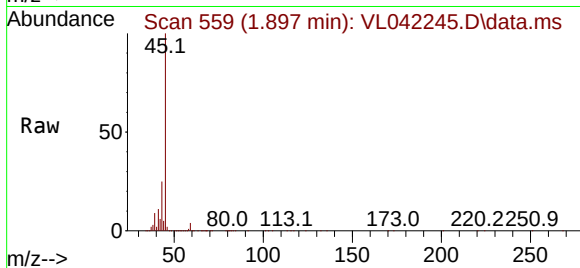
SSSG-B14-3-04012025

Tgt Ion: 41 Resp: 113954

Ion Ratio Lower Upper

41 100

42 59.1 55.4 83.2



#11

Trichlorofluoromethane

Concen: 0.104 ppbv

RT: 1.887 min Scan# 556

Delta R.T. 0.013 min

Lab File: VL042245.D

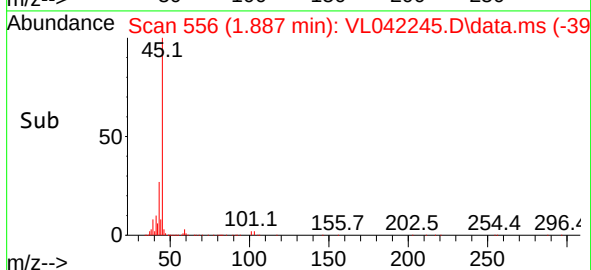
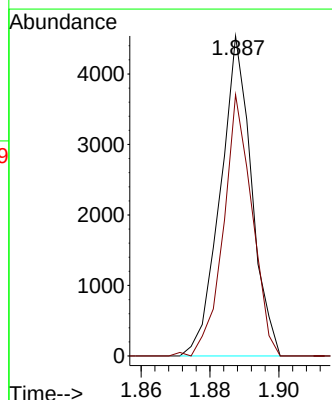
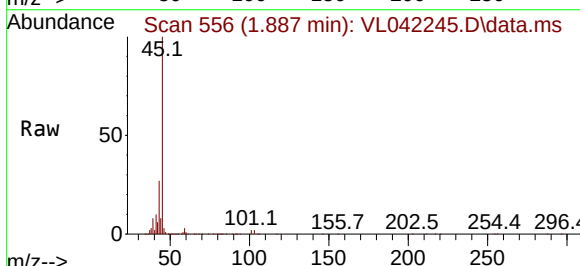
Acq: 07 Apr 2025 22:40

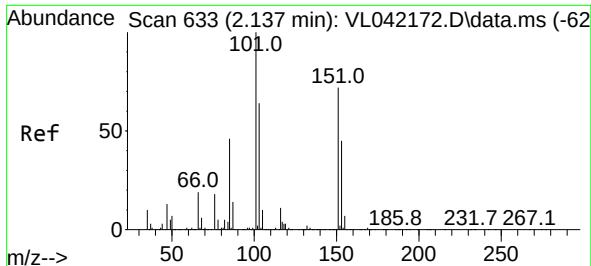
Tgt Ion: 101 Resp: 2858

Ion Ratio Lower Upper

101 100

103 81.7 50.2 75.2#

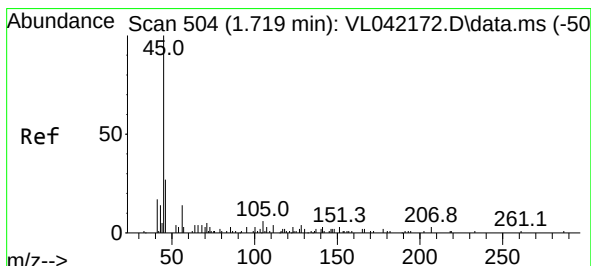
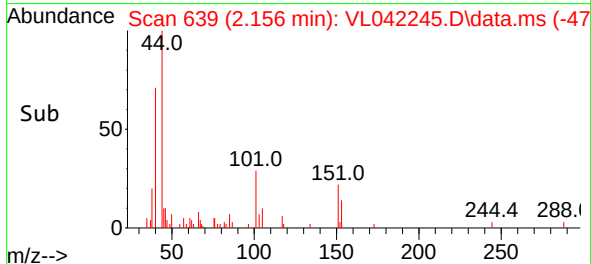
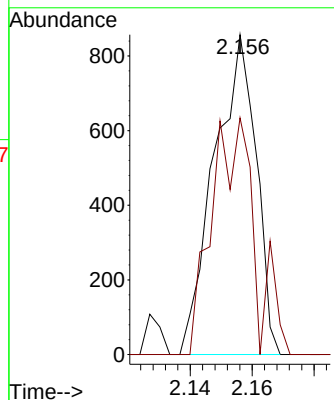
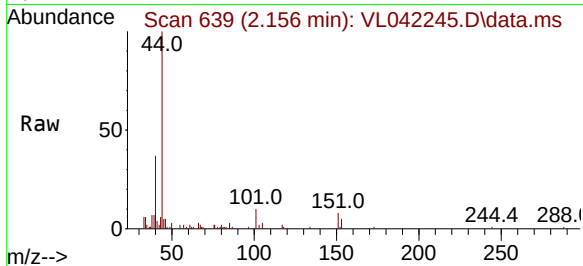




#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.036 ppbv
 RT: 2.156 min Scan# 611
 Delta R.T. 0.019 min
 Lab File: VL042245.D
 Acq: 07 Apr 2025 22:40

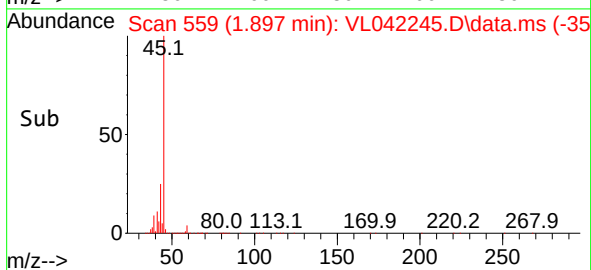
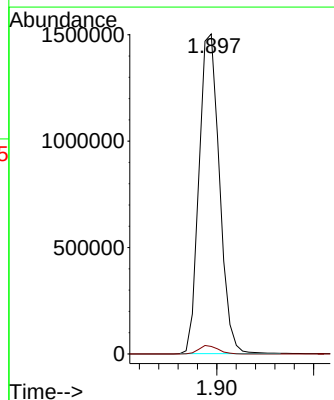
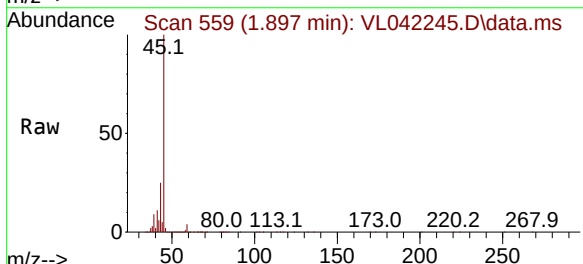
Instrument :
 MSVOA_L
 ClientSampleId :
 SSSG-B14-3-04012025

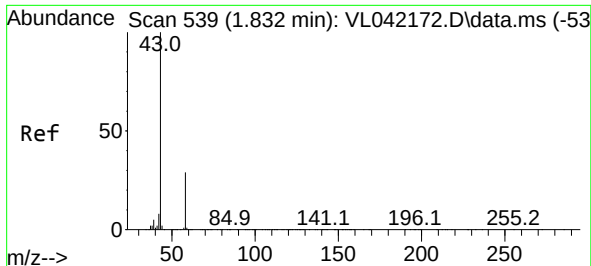
Tgt Ion:101 Resp: 802
 Ion Ratio Lower Upper
 101 100
 151 76.3 57.1 85.7



#13
 Ethanol
 Concen: 881.302 ppbv
 RT: 1.897 min Scan# 559
 Delta R.T. 0.178 min
 Lab File: VL042245.D
 Acq: 07 Apr 2025 22:40

Tgt Ion: 45 Resp: 1101017
 Ion Ratio Lower Upper
 45 100
 46 2.5 20.2 80.8#





#15

Acetone

Concen: 22.081 ppbv

RT: 1.845 min Scan# 54

Delta R.T. 0.013 min

Lab File: VL042245.D

Acq: 07 Apr 2025 22:40

Instrument :

MSVOA_L

ClientSampleId :

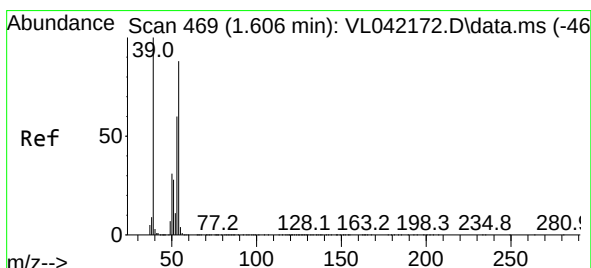
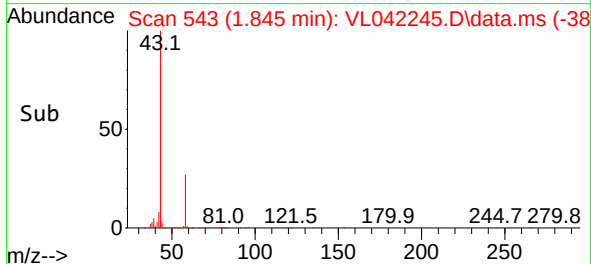
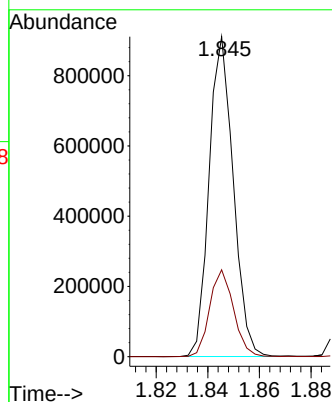
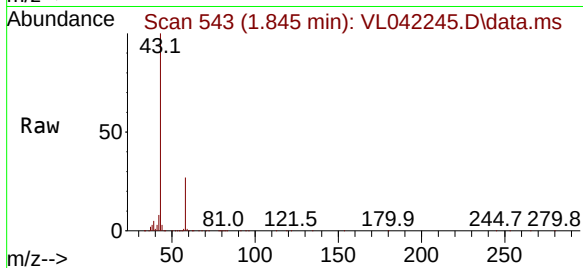
SSSG-B14-3-04012025

Tgt Ion: 43 Resp: 590313

Ion Ratio Lower Upper

43 100

58 27.0 23.2 34.8



#16

1,3-Butadiene

Concen: 0.425 ppbv

RT: 1.609 min Scan# 470

Delta R.T. 0.003 min

Lab File: VL042245.D

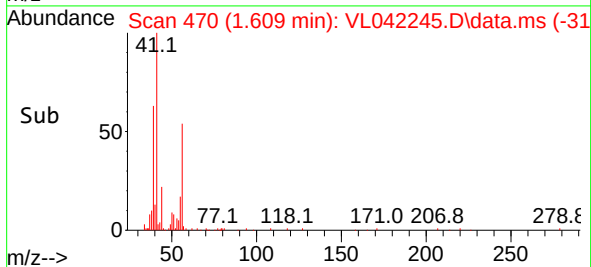
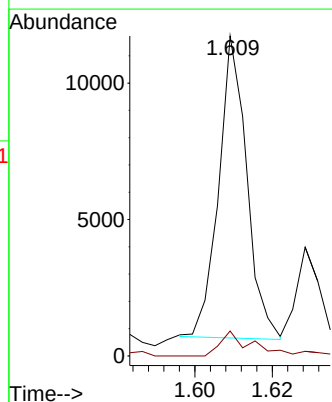
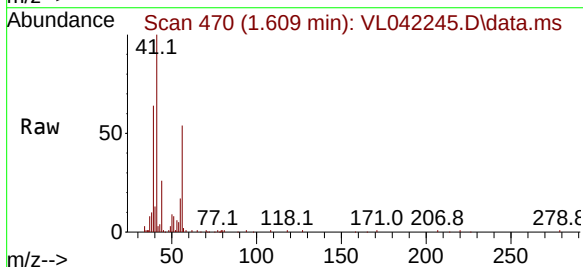
Acq: 07 Apr 2025 22:40

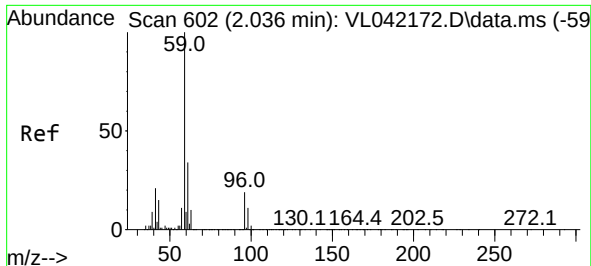
Tgt Ion: 39 Resp: 5554

Ion Ratio Lower Upper

39 100

54 11.8 60.7 91.1#





#17

tert-Butyl alcohol

Concen: 1.287 ppbv

RT: 1.897 min Scan# 51

Delta R.T. -0.139 min

Lab File: VL042245.D

Acq: 07 Apr 2025 22:40

Instrument :

MSVOA_L

ClientSampleId :

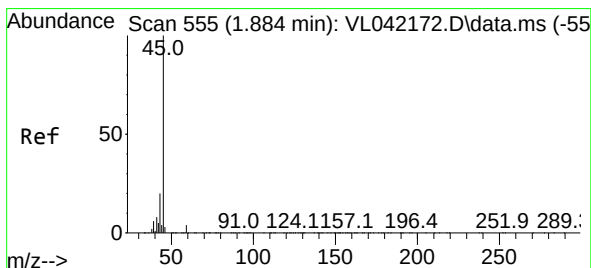
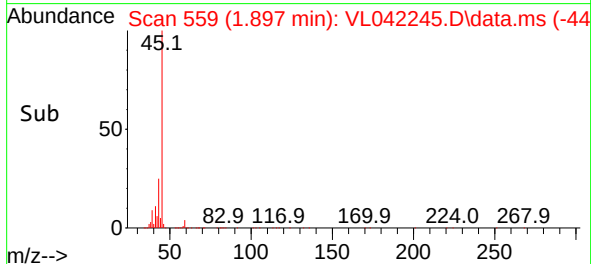
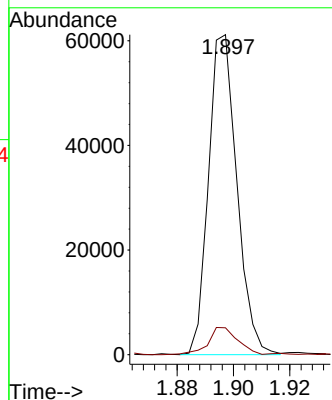
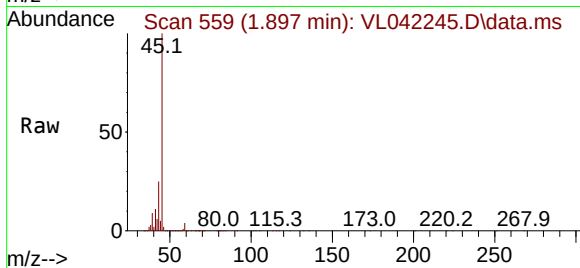
SSSG-B14-3-04012025

Tgt Ion: 59 Resp: 42857

Ion Ratio Lower Upper

59 100

57 9.4 8.9 13.3



#19

Isopropyl Alcohol

Concen: 72.993 ppbv

RT: 1.897 min Scan# 559

Delta R.T. 0.013 min

Lab File: VL042245.D

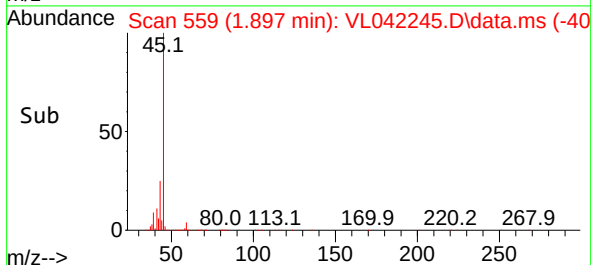
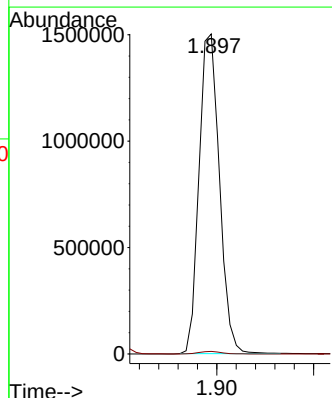
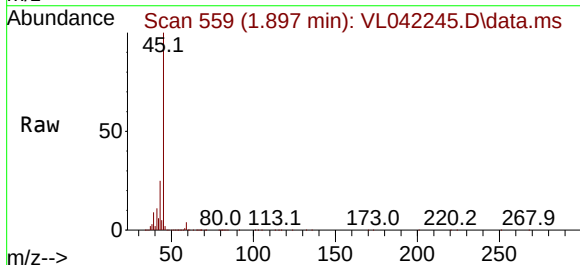
Acq: 07 Apr 2025 22:40

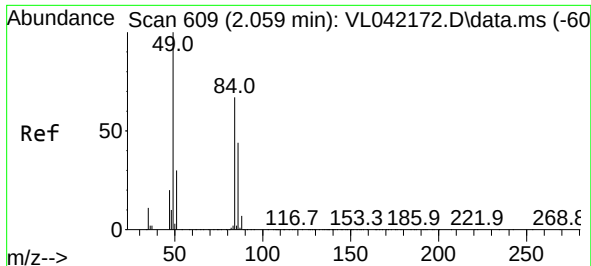
Tgt Ion: 45 Resp: 1101017

Ion Ratio Lower Upper

45 100

58 0.9 36.9 55.3#

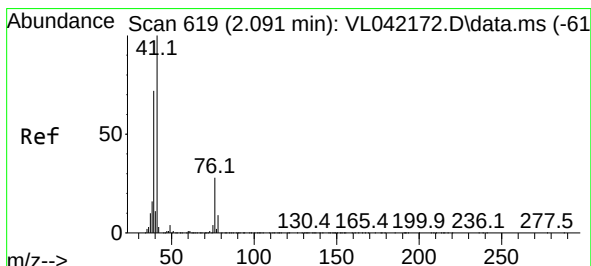
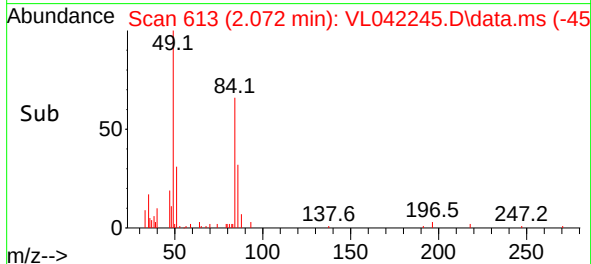
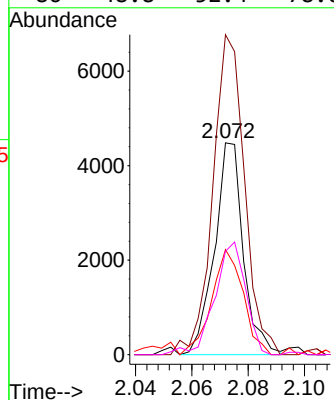
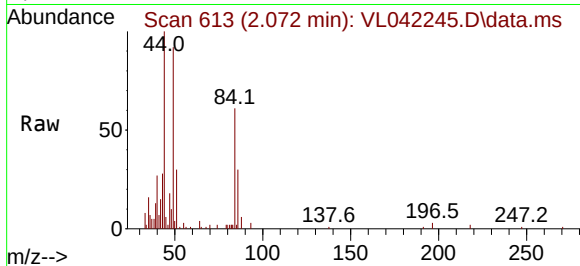




#20
Methylene Chloride
Concen: 0.321 ppbv
RT: 2.072 min Scan# 613
Delta R.T. 0.013 min
Lab File: VL042245.D
Acq: 07 Apr 2025 22:40

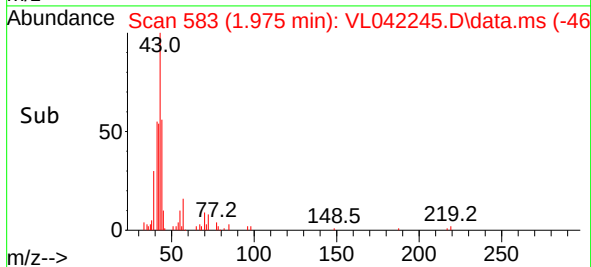
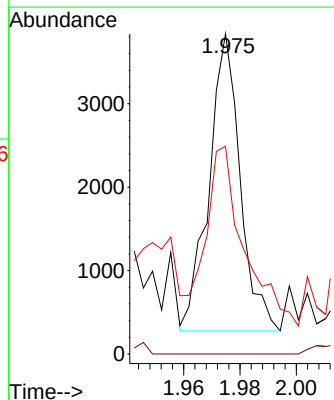
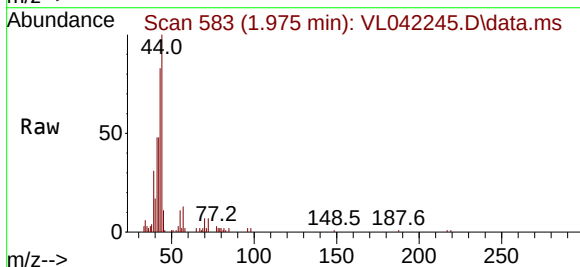
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B14-3-04012025

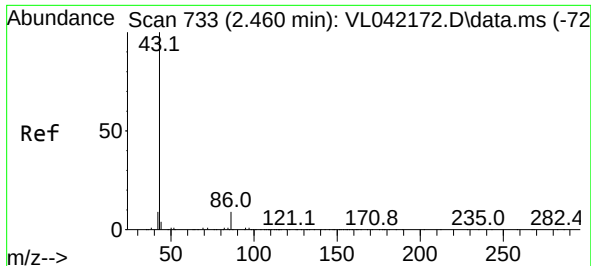
Tgt Ion: 84	Resp:	3195	
Ion	Ratio	Lower	Upper
84	100		
49	151.1	120.2	180.4
51	49.6	37.4	56.0
86	48.8	52.4	78.6#



#21
Allyl Chloride
Concen: 0.145 ppbv
RT: 1.975 min Scan# 583
Delta R.T. -0.116 min
Lab File: VL042245.D
Acq: 07 Apr 2025 22:40

Tgt Ion: 41	Resp:	2742	
Ion Ratio	Lower	Upper	
41 100			
76 1.5	24.1	36.1#	
39 0.0	61.1	91.7#	

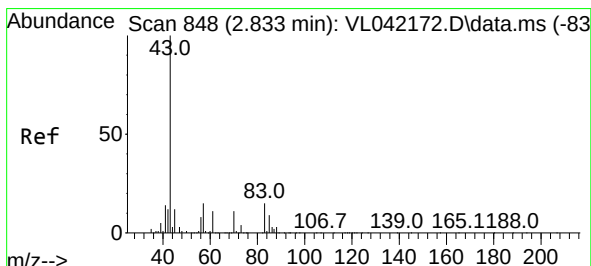
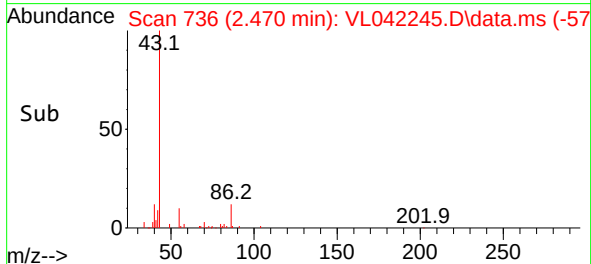
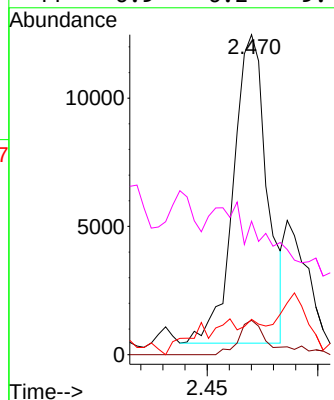
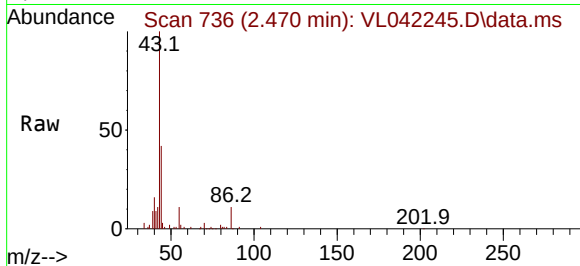




#23
 Vinyl Acetate
 Concen: 1.101 ppbv
 RT: 2.470 min Scan# 71
 Delta R.T. 0.010 min
 Lab File: VL042245.D
 Acq: 07 Apr 2025 22:40

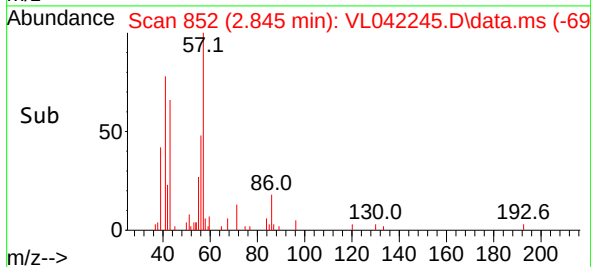
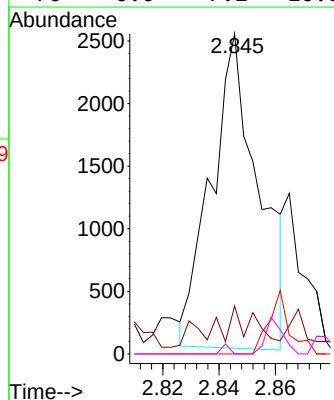
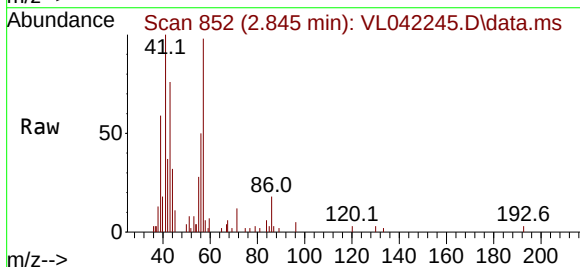
Instrument :
 MSVOA_1
 ClientSampleId :
 SSSG-B14-3-04012025

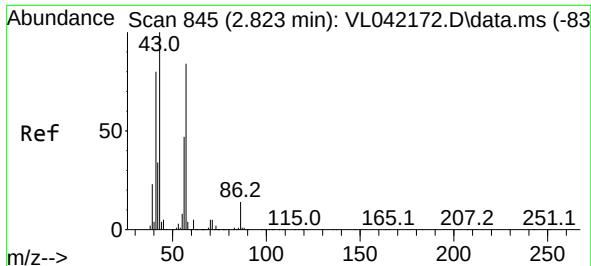
Tgt Ion:	43	Resp:	12740
Ion	Ratio	Lower	Upper
43	100		
86	11.2	5.5	8.3#
42	6.2	8.6	13.0#
44	6.9	6.2	9.4



#25
 Ethyl Acetate
 Concen: 0.042 ppbv
 RT: 2.845 min Scan# 852
 Delta R.T. 0.013 min
 Lab File: VL042245.D
 Acq: 07 Apr 2025 22:40

Tgt Ion:	43	Resp:	2924
Ion	Ratio	Lower	Upper
43	100		
45	29.8	8.2	12.2#
61	0.0	7.3	10.9#
70	0.0	7.2	10.8#

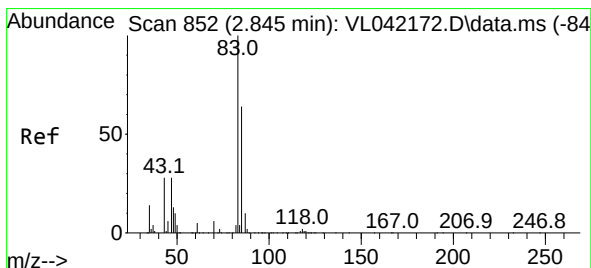
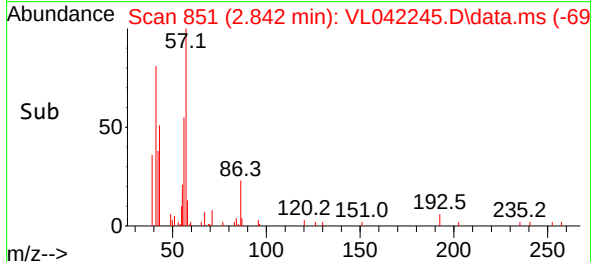
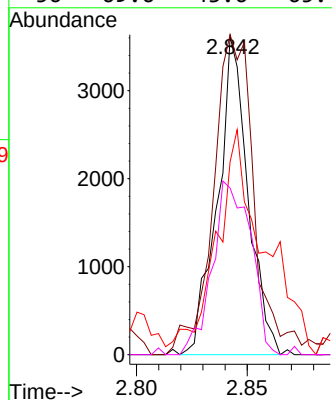
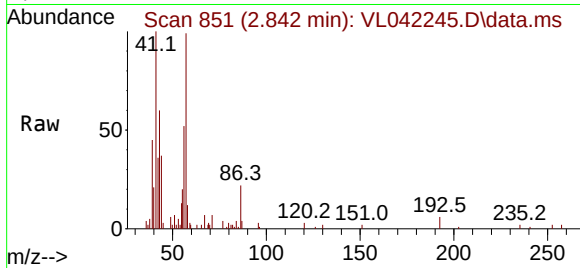




#26
Hexane
Concen: 0.130 ppbv
RT: 2.842 min Scan# 851
Delta R.T. 0.019 min
Lab File: VL042245.D
Acq: 07 Apr 2025 22:40

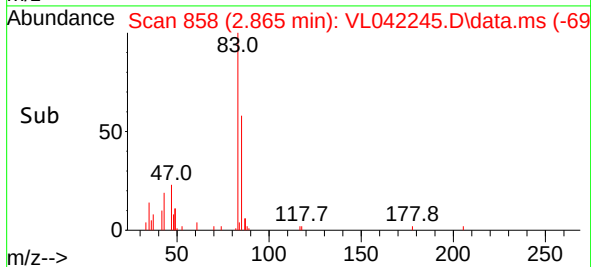
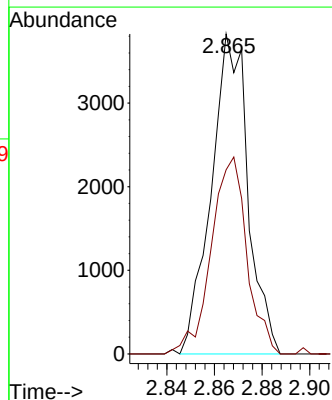
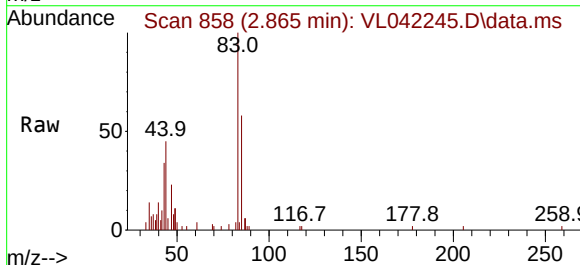
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B14-3-04012025

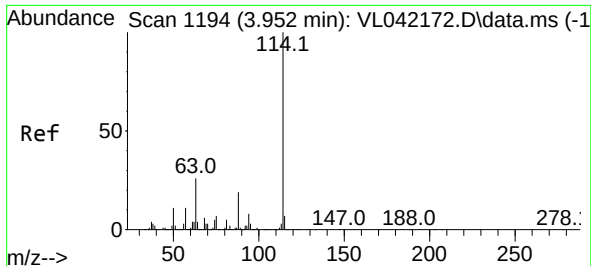
Tgt Ion: 57 Resp: 3476
Ion Ratio Lower Upper
57 100
41 138.7 76.6 114.8#
43 107.4 207.8 311.8#
56 69.6 43.6 65.4#



#29
Chloroform
Concen: 0.105 ppbv
RT: 2.865 min Scan# 858
Delta R.T. 0.019 min
Lab File: VL042245.D
Acq: 07 Apr 2025 22:40

Tgt Ion: 83 Resp: 4102
Ion Ratio Lower Upper
83 100
85 57.6 51.4 77.2

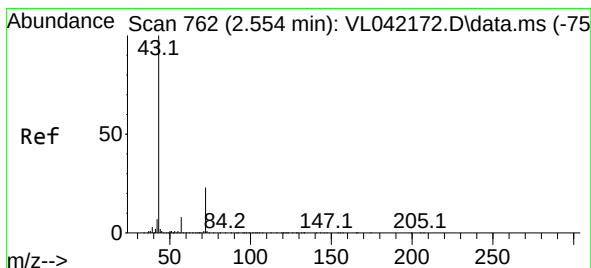
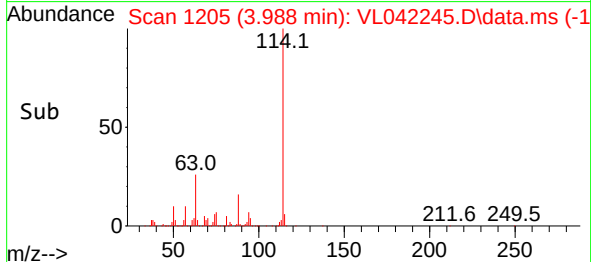
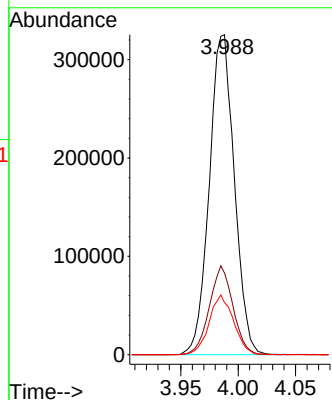
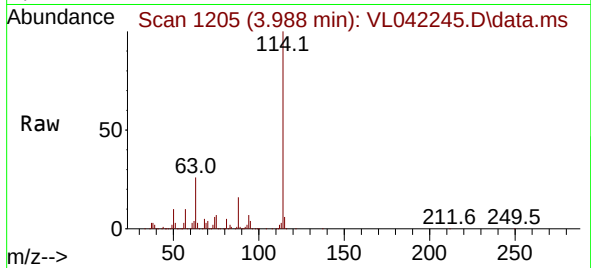




#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.988 min Scan# 1194
Delta R.T. 0.036 min
Lab File: VL042245.D
Acq: 07 Apr 2025 22:40

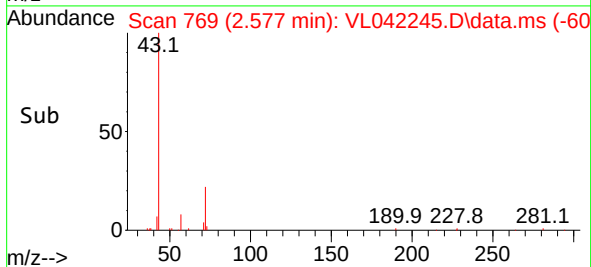
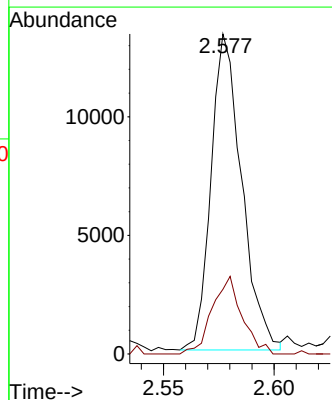
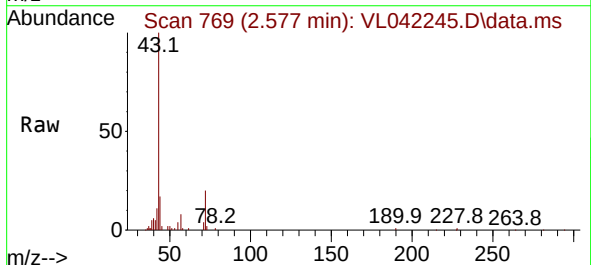
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B14-3-04012025

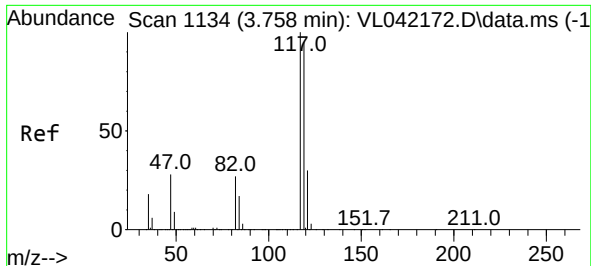
Tgt Ion:114 Resp: 493918
Ion Ratio Lower Upper
114 100
63 26.3 20.7 31.1
88 18.2 15.0 22.4



#34
2-Butanone
Concen: 0.358 ppbv
RT: 2.577 min Scan# 769
Delta R.T. 0.023 min
Lab File: VL042245.D
Acq: 07 Apr 2025 22:40

Tgt Ion: 43 Resp: 12837
Ion Ratio Lower Upper
43 100
72 24.0 18.2 27.2

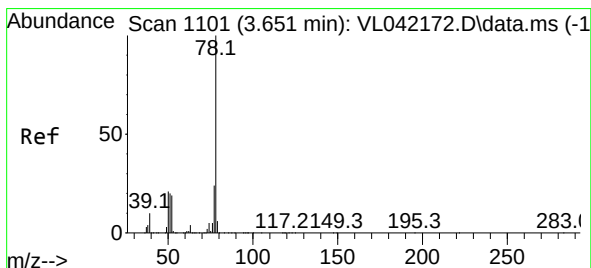
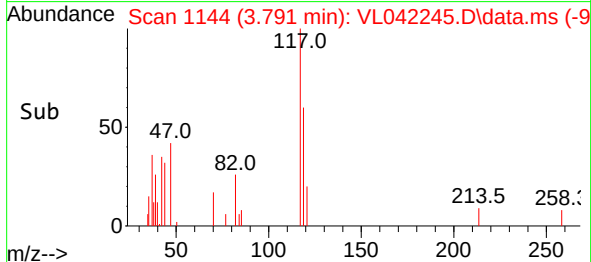
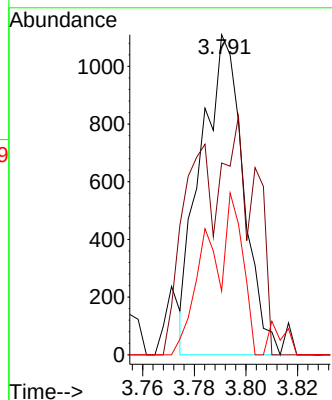
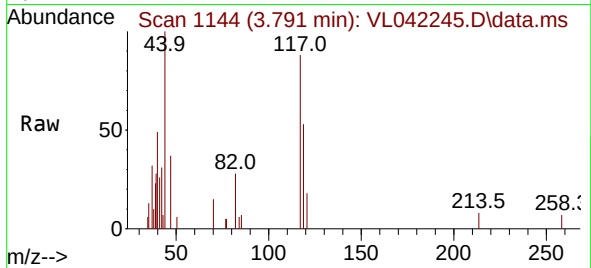




#35
Carbon Tetrachloride
Concen: 0.033 ppbv
RT: 3.791 min Scan# 1114
Delta R.T. 0.032 min
Lab File: VL042245.D
Acq: 07 Apr 2025 22:40

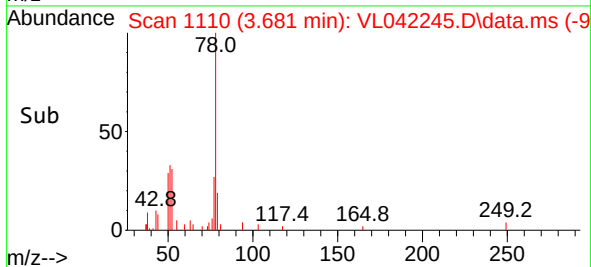
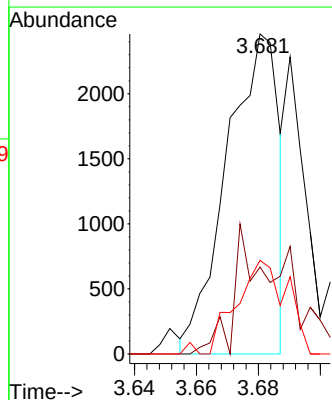
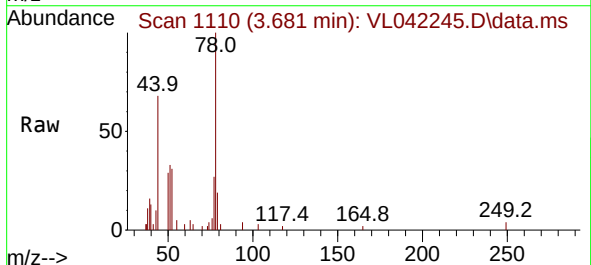
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B14-3-04012025

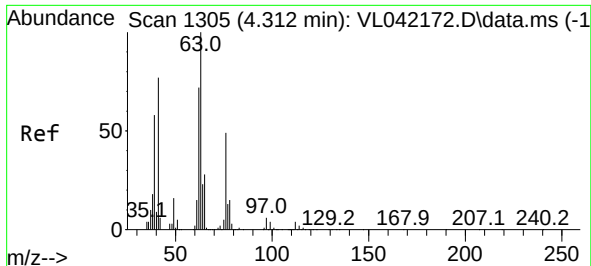
Tgt Ion:117 Resp: 1273
Ion Ratio Lower Upper
117 100
119 59.9 76.2 114.2#
121 15.4 24.2 36.4#



#36
Benzene
Concen: 0.058 ppbv
RT: 3.681 min Scan# 1110
Delta R.T. 0.029 min
Lab File: VL042245.D
Acq: 07 Apr 2025 22:40

Tgt Ion: 78 Resp: 2854
Ion Ratio Lower Upper
78 100
77 23.5 19.1 28.7
50 30.7 16.6 24.8#





#39

1,2-Dichloropropane

Concen: 7.248 ppbv

RT: 3.985 min Scan# 11

Delta R.T. -0.327 min

Lab File: VL042245.D

Acq: 07 Apr 2025 22:40

Instrument :

MSVOA_L

ClientSampleId :

SSSG-B14-3-04012025

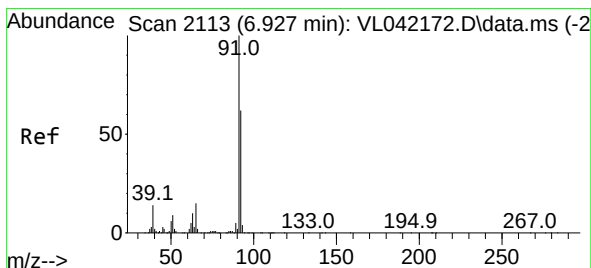
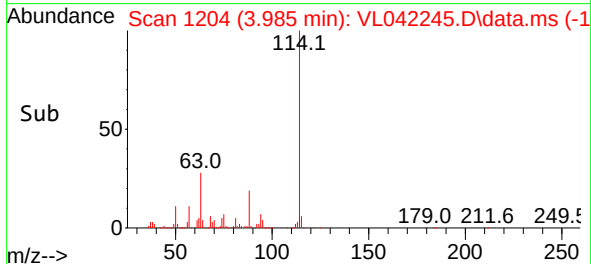
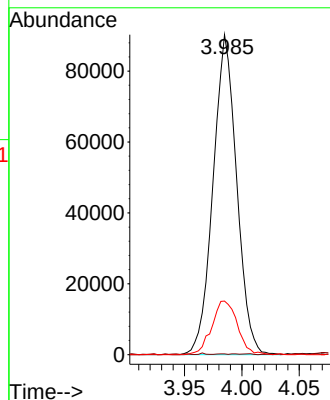
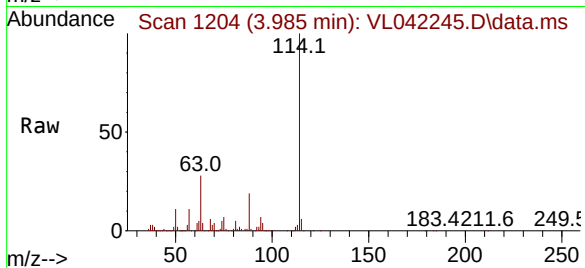
Tgt Ion: 63 Resp: 129244

Ion Ratio Lower Upper

63 100

41 0.3 61.7 92.5#

62 16.8 57.6 86.4#



#53

Toluene

Concen: 0.384 ppbv

RT: 6.972 min Scan# 2127

Delta R.T. 0.045 min

Lab File: VL042245.D

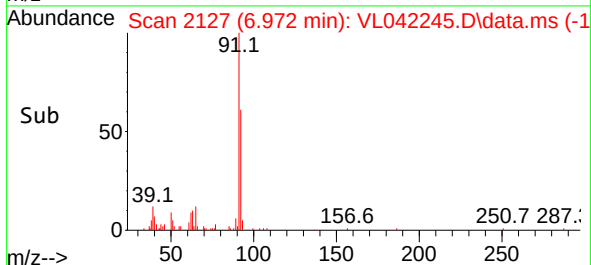
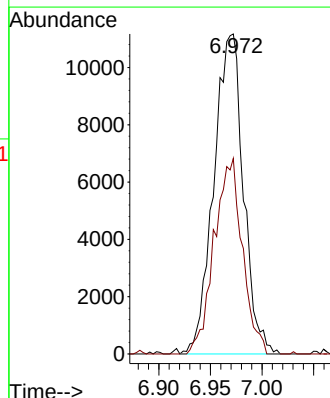
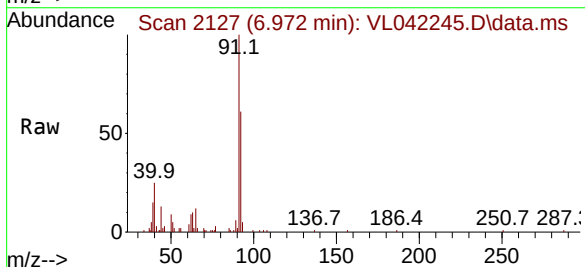
Acq: 07 Apr 2025 22:40

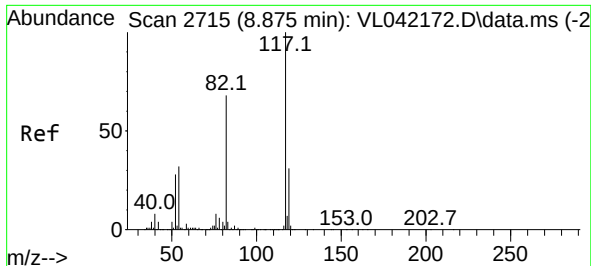
Tgt Ion: 91 Resp: 22311

Ion Ratio Lower Upper

91 100

92 57.9 48.4 72.6

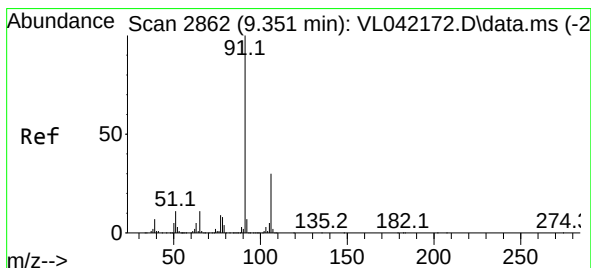
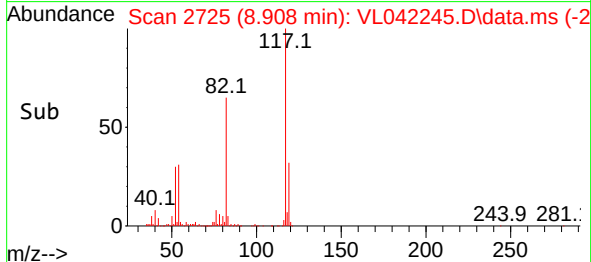
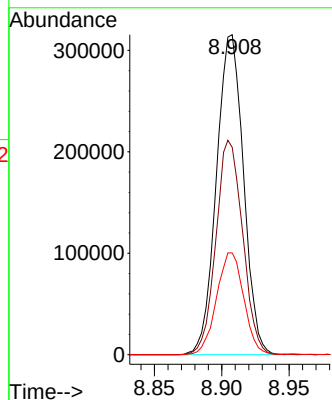
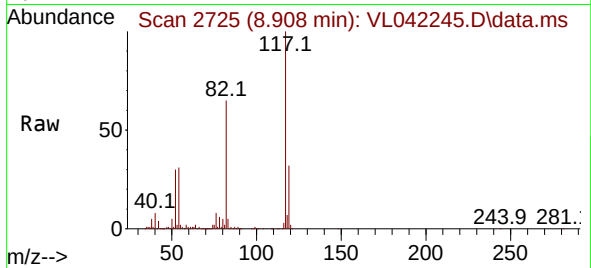




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.908 min Scan# 21
Delta R.T. 0.032 min
Lab File: VL042245.D
Acq: 07 Apr 2025 22:40

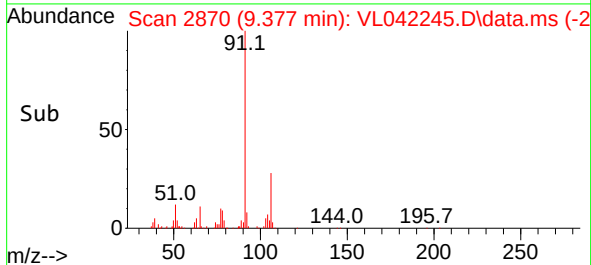
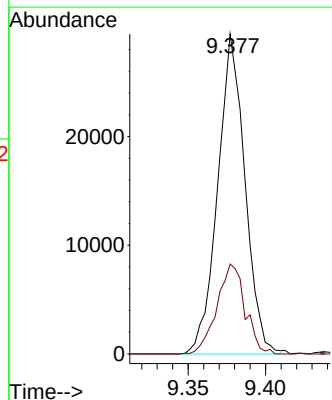
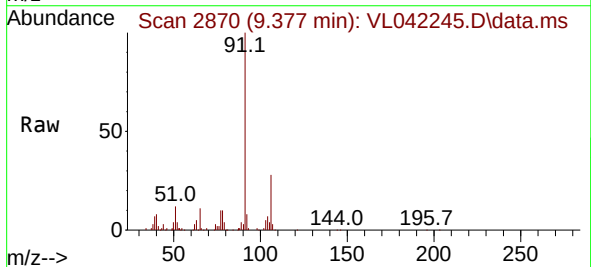
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B14-3-04012025

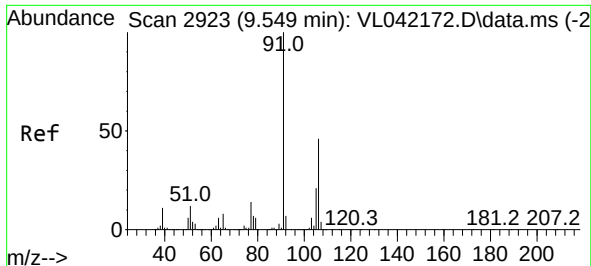
Tgt Ion:117 Resp: 441320
Ion Ratio Lower Upper
117 100
82 66.1 55.8 83.6
119 32.1 25.5 38.3



#58
Ethyl Benzene
Concen: 0.458 ppbv
RT: 9.377 min Scan# 2870
Delta R.T. 0.026 min
Lab File: VL042245.D
Acq: 07 Apr 2025 22:40

Tgt Ion: 91 Resp: 35929
Ion Ratio Lower Upper
91 100
106 28.1 24.2 36.2





#59

m/p-Xylene

Concen: 2.006 ppbv

RT: 9.555 min Scan# 2925

Delta R.T. 0.007 min

Lab File: VL042245.D

Acq: 07 Apr 2025 22:40

Instrument :

MSVOA_L

ClientSampleId :

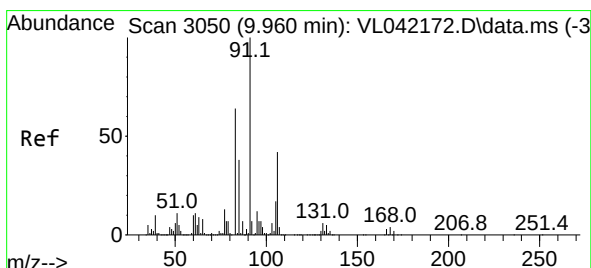
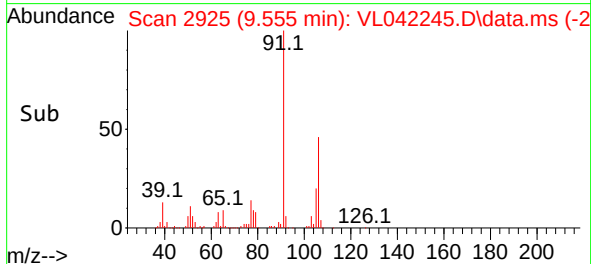
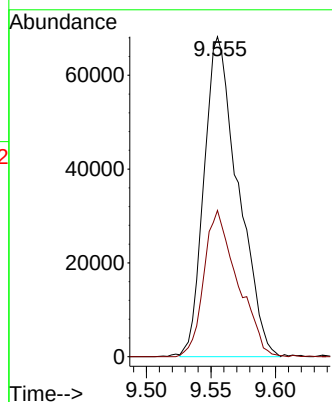
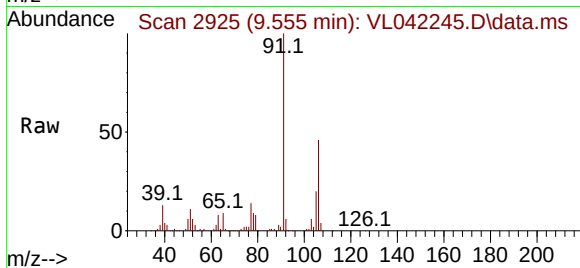
SSSG-B14-3-04012025

Tgt Ion: 91 Resp: 125540

Ion Ratio Lower Upper

91 100

106 45.2 36.4 54.6



#60

o-Xylene

Concen: 0.413 ppbv

RT: 9.986 min Scan# 3058

Delta R.T. 0.026 min

Lab File: VL042245.D

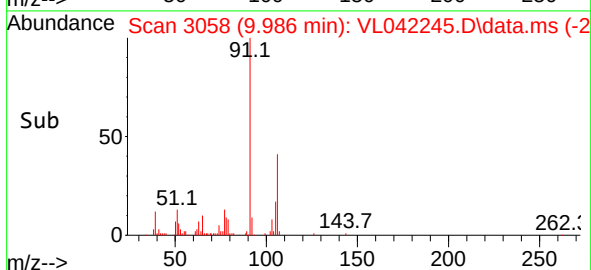
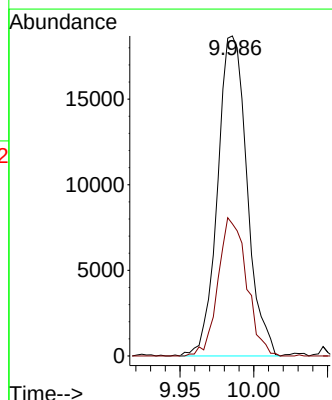
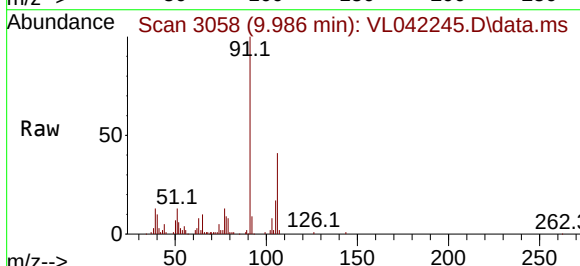
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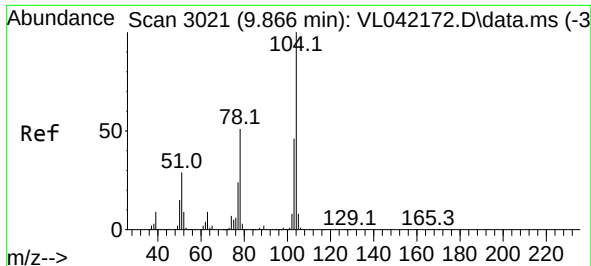
Tgt Ion: 91 Resp: 25937

Ion Ratio Lower Upper

91 100

106 41.9 20.8 62.5





#61

Styrene

Concen: 0.200 ppbv

RT: 9.895 min Scan# 3021

Delta R.T. 0.029 min

Lab File: VL042245.D

Acq: 07 Apr 2025 22:40

Instrument :

MSVOA_1

ClientSampleId :

SSSG-B14-3-04012025

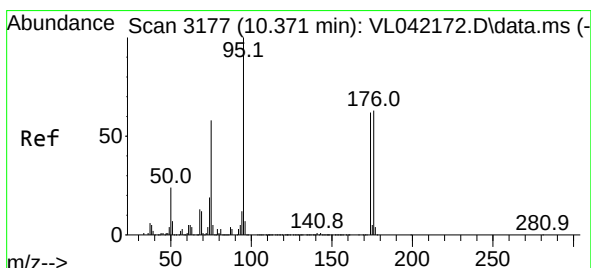
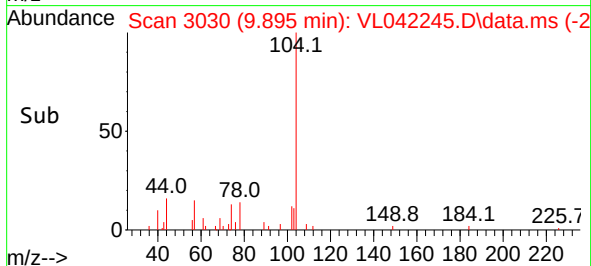
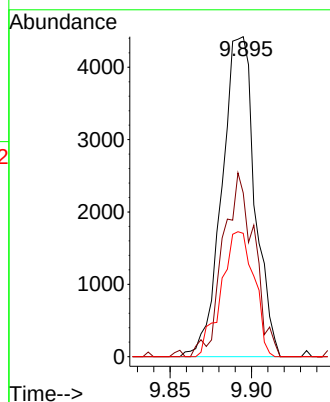
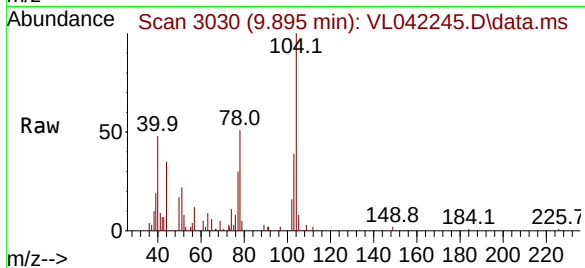
Tgt Ion:104 Resp: 6211

Ion Ratio Lower Upper

104 100

78 55.5 41.8 62.6

103 38.8 37.0 55.4



#68

1-Bromo-4-Fluorobenzene

Concen: 9.853 ppbv

RT: 10.397 min Scan# 3185

Delta R.T. 0.026 min

Lab File: VL042245.D

Acq: 07 Apr 2025 22:40

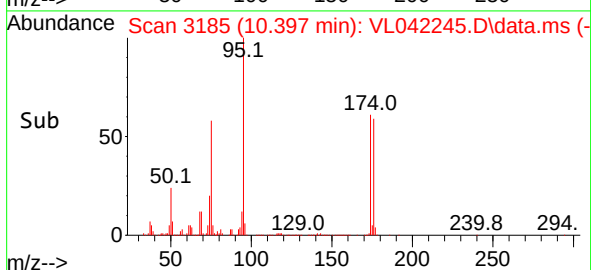
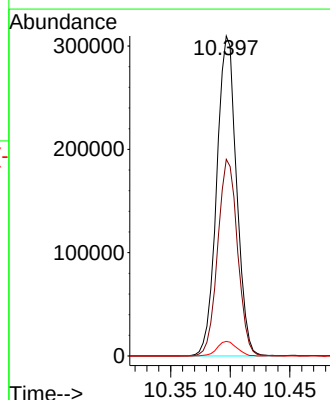
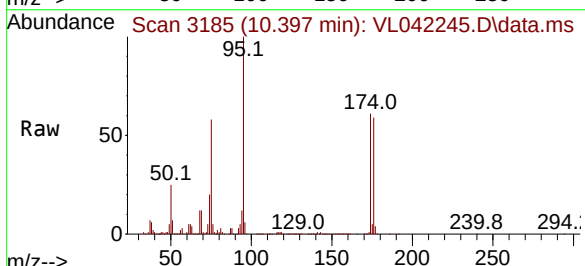
Tgt Ion: 95 Resp: 357099

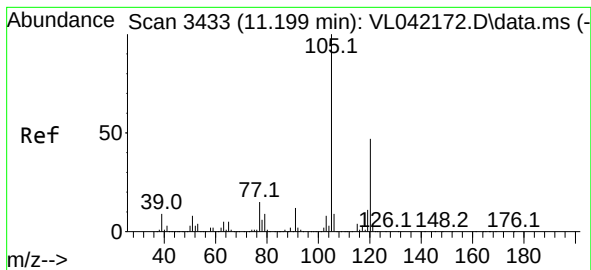
Ion Ratio Lower Upper

95 100

174 61.9 50.6 76.0

175 4.6 3.8 5.6





#73

1,3,5-Trimethylbenzene

Concen: 0.039 ppbv

RT: 11.219 min Scan# 34

Delta R.T. 0.019 min

Lab File: VL042245.D

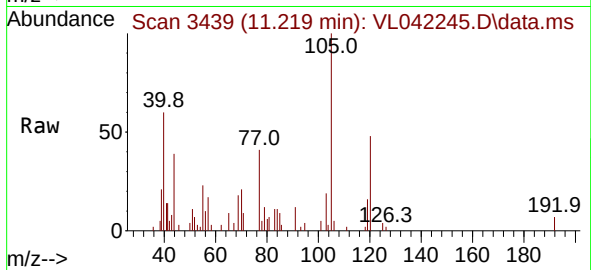
Acq: 07 Apr 2025 22:40

Instrument :

MSVOA_L

ClientSampleId :

SSSG-B14-3-04012025

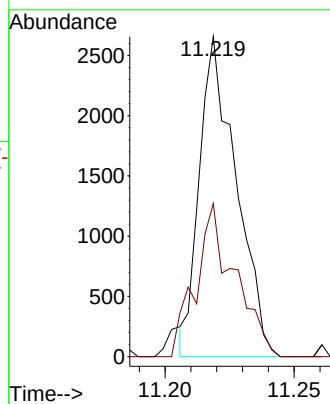
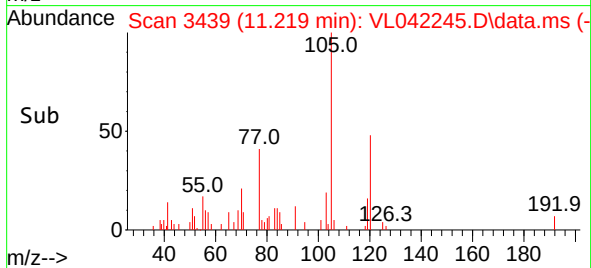


Tgt Ion:105 Resp: 2628

Ion Ratio Lower Upper

105 100

120 47.9 37.4 56.0



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040725\
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 Acq On : 07 Apr 2025 23:41
 Operator : SY/MD
 Sample : Q1725-06 4X
 Misc : 400mL/MSVOA_L
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SSSG-B10-3-03312025

Quant Time: Apr 08 01:38:20 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri Mar 28 02:00:52 2025
 Response via : Initial Calibration

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

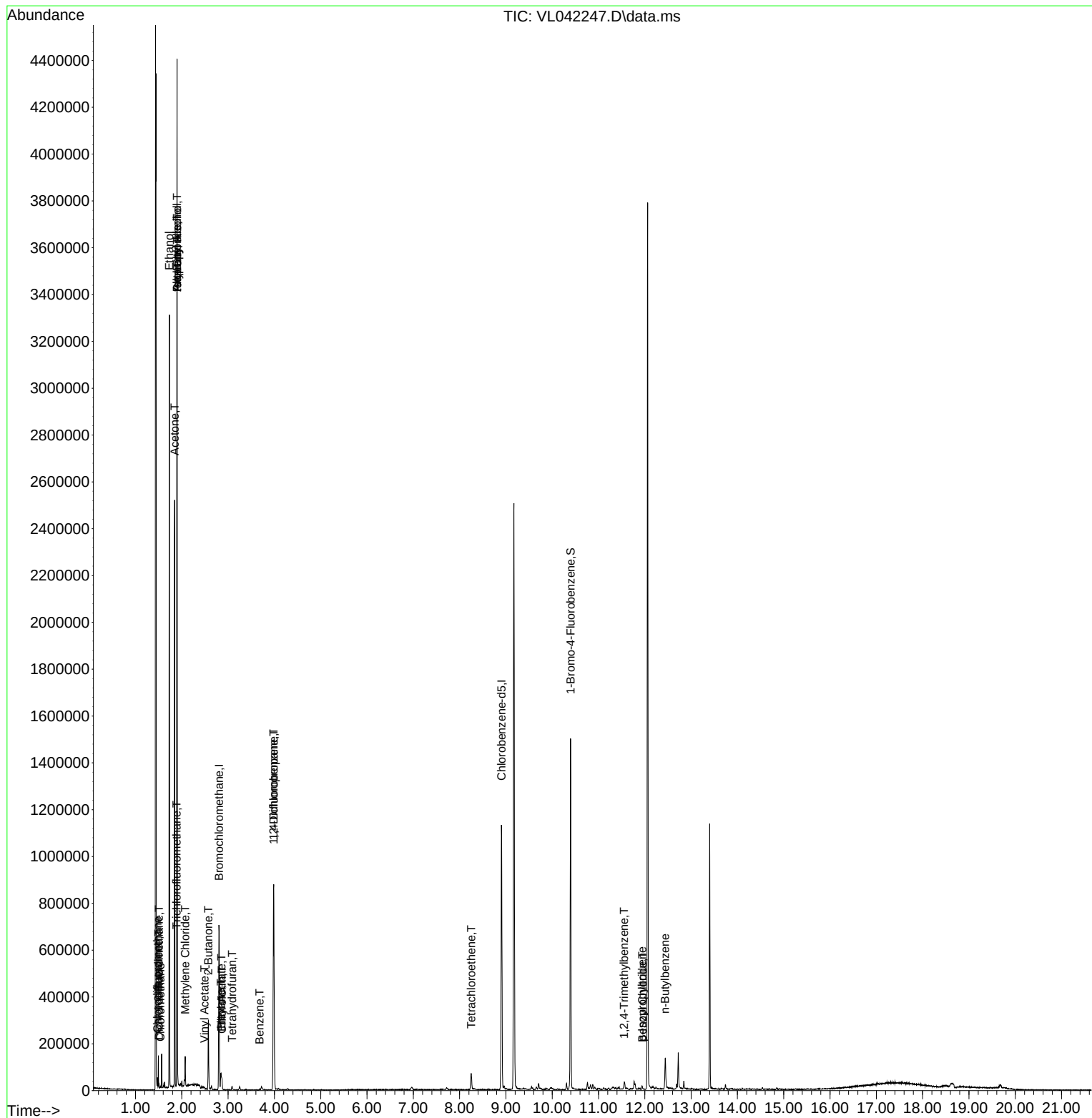
Internal Standards						
1) Bromochloromethane	2.803	49	194534	10.000	ppbv	0.02
33) 1,4-Difluorobenzene	3.985	114	495845	10.000	ppbv	0.03
55) Chlorobenzene-d5	8.904	117	437126	10.000	ppbv	0.03
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.396	95	361726	10.077	ppbv	0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.800%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.505	85	3454	0.120	ppbv	95
3) Chlorodifluoromethane	1.473	51	11455	0.390	ppbv #	66
4) Chloromethane	1.538	50	1900	0.162	ppbv	96
9) Propene	1.897	41	225725	16.783	ppbv	87
11) Trichlorofluoromethane	1.887	101	1623	0.058	ppbv	88
13) Ethanol	1.732	45	1184959	932.018	ppbv	87
15) Acetone	1.845	43	1081614	39.756	ppbv	98
16) 1,3-Butadiene	1.496	39	14224	1.071	ppbv #	13
17) tert-Butyl alcohol	1.897	59	88824	2.621	ppbv	95
19) Isopropyl Alcohol	1.897	45	1799475	117.225	ppbv #	32
20) Methylene Chloride	2.075	84	17220	1.699	ppbv	96
21) Allyl Chloride	1.897	41	225725	11.764	ppbv #	76
23) Vinyl Acetate	2.492	43	1963	0.167	ppbv #	65
25) Ethyl Acetate	2.855	43	23565	0.334	ppbv	97
26) Hexane	2.845	57	13903	0.510	ppbv #	63
29) Chloroform	2.865	83	14300	0.358	ppbv	94
34) 2-Butanone	2.573	43	176547	4.910	ppbv	98
36) Benzene	3.680	78	1853	0.038	ppbv #	92
39) 1,2-Dichloropropane	3.981	63	129329	7.224	ppbv #	22
41) Tetrahydrofuran	3.088	42	4558	0.220	ppbv	96
52) Tetrachloroethene	8.250	164	12097	0.621	ppbv	88
66) Benzyl Chloride	11.947	91	1899	0.208	ppbv #	66
69) p-Isopropyltoluene	11.943	119	4989	0.048	ppbv #	70
70) n-Butylbenzene	12.439	91	8947	0.085	ppbv #	37
74) 1,2,4-Trimethylbenzene	11.552	105	4585	0.059	ppbv #	72

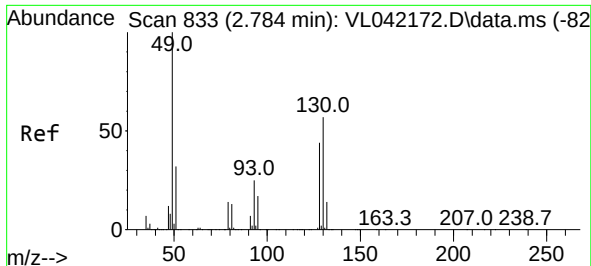
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040725\
Data File : VL042247.D
Acq On : 07 Apr 2025 23:41
Operator : SY/MD
Sample : Q1725-06 4X
Misc : 400mL/MSVOA_L
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
SSSG-B10-3-03312025

Quant Time: Apr 08 01:38:20 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Fri Mar 28 02:00:52 2025
Response via : Initial Calibration

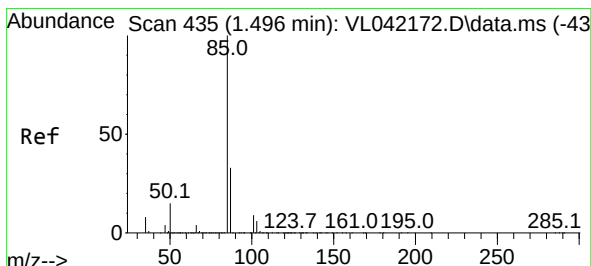
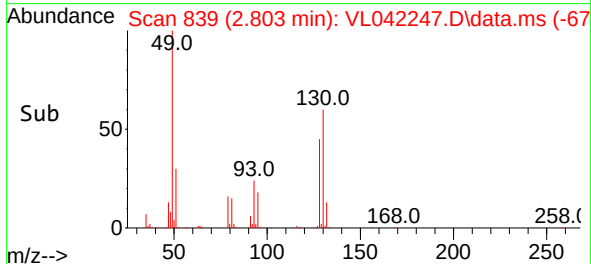
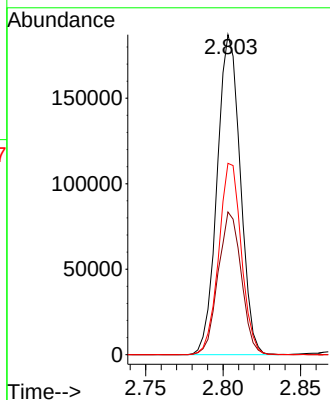
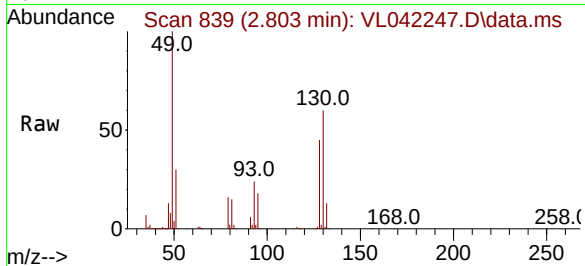




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.803 min Scan# 81
Delta R.T. 0.019 min
Lab File: VL042247.D
Acq: 07 Apr 2025 23:41

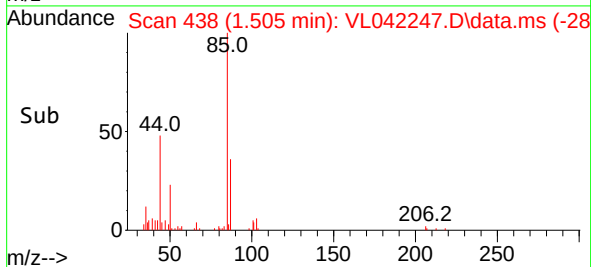
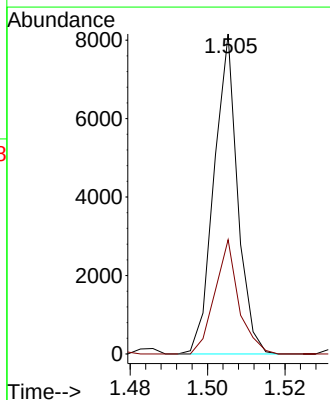
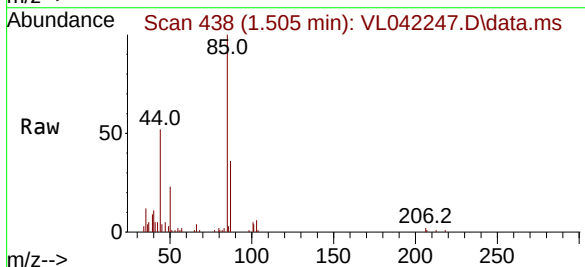
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B10-3-03312025

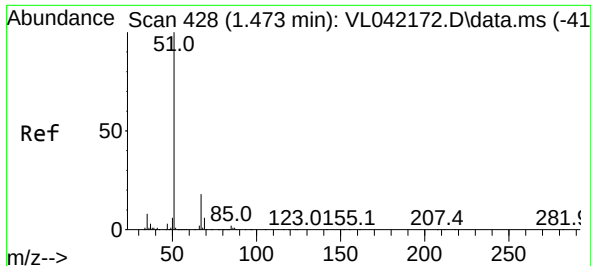
Tgt Ion: 49 Resp: 194534
Ion Ratio Lower Upper
49 100
128 44.5 22.9 68.5
130 58.5 28.8 86.4



#2
Dichlorodifluoromethane
Concen: 0.120 ppbv
RT: 1.505 min Scan# 438
Delta R.T. 0.010 min
Lab File: VL042247.D
Acq: 07 Apr 2025 23:41

Tgt Ion: 85 Resp: 3454
Ion Ratio Lower Upper
85 100
87 35.7 26.1 39.1

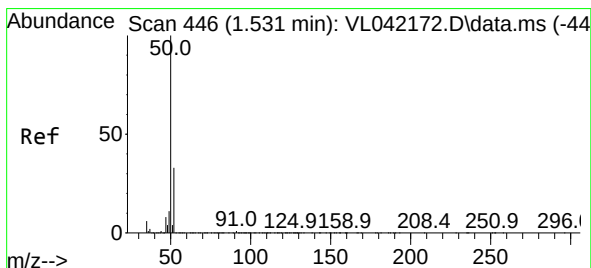
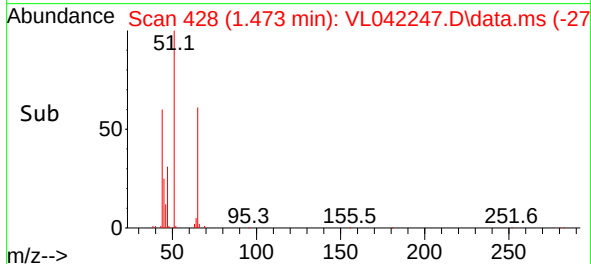
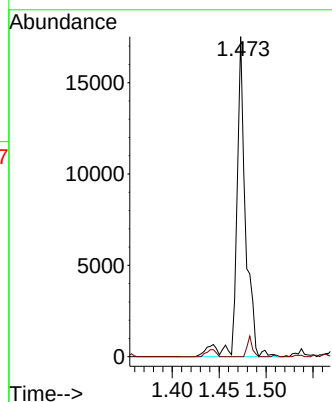
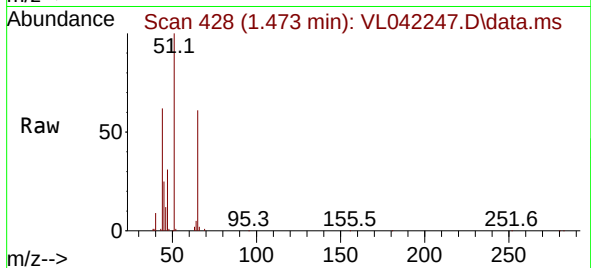




#3
Chlorodifluoromethane
Concen: 0.390 ppbv
RT: 1.473 min Scan# 41
Delta R.T. -0.000 min
Lab File: VL042247.D
Acq: 07 Apr 2025 23:41

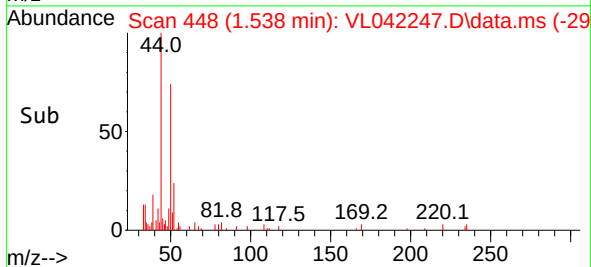
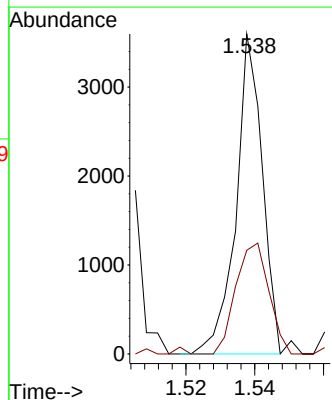
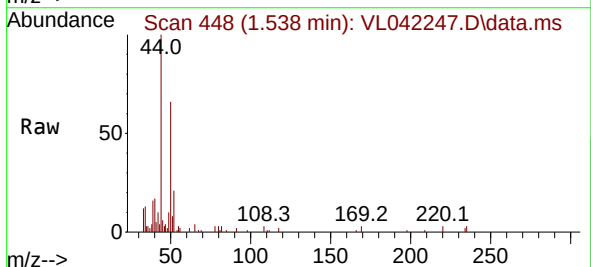
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B10-3-03312025

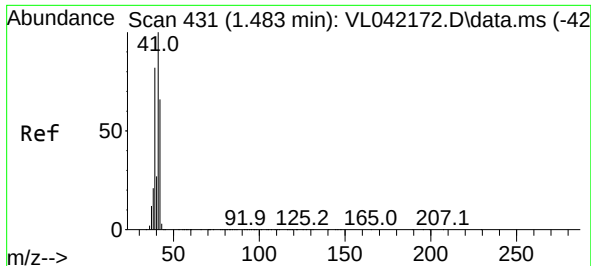
Tgt Ion: 51 Resp: 11455
Ion Ratio Lower Upper
51 100
67 3.7 15.0 22.6#



#4
Chloromethane
Concen: 0.162 ppbv
RT: 1.538 min Scan# 448
Delta R.T. 0.006 min
Lab File: VL042247.D
Acq: 07 Apr 2025 23:41

Tgt Ion: 50 Resp: 1900
Ion Ratio Lower Upper
50 100
52 30.3 26.1 39.1





#9

Propene

Concen: 16.783 ppbv

RT: 1.897 min Scan# 51

Delta R.T. 0.414 min

Lab File: VL042247.D

Acq: 07 Apr 2025 23:41

Instrument :

MSVOA_L

ClientSampleId :

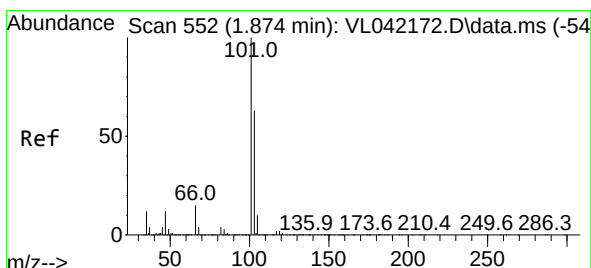
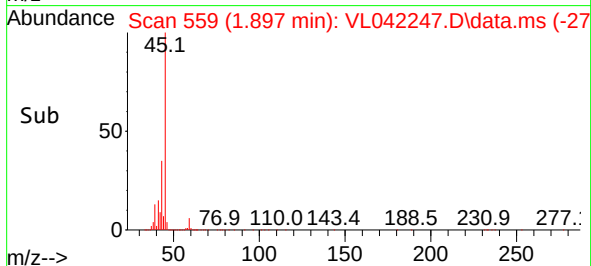
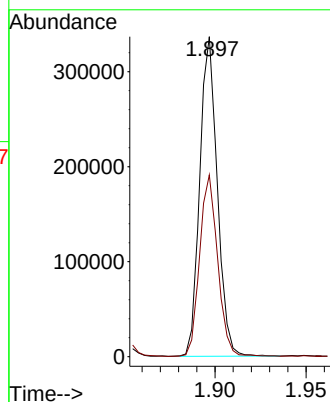
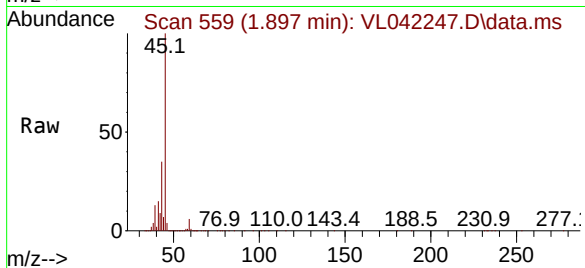
SSSG-B10-3-03312025

Tgt Ion: 41 Resp: 225725

Ion Ratio Lower Upper

41 100

42 58.5 55.4 83.2



#11

Trichlorofluoromethane

Concen: 0.058 ppbv

RT: 1.887 min Scan# 556

Delta R.T. 0.013 min

Lab File: VL042247.D

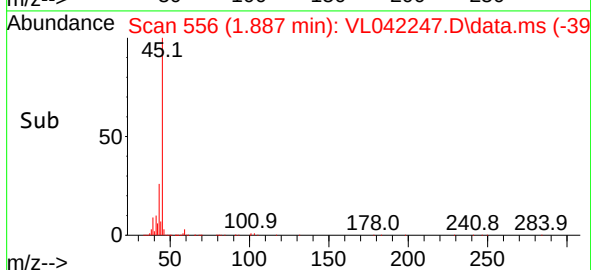
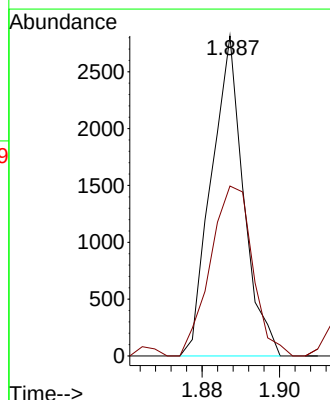
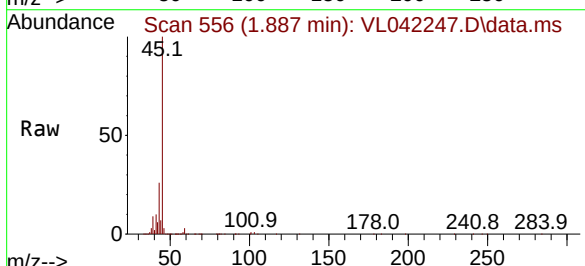
Acq: 07 Apr 2025 23:41

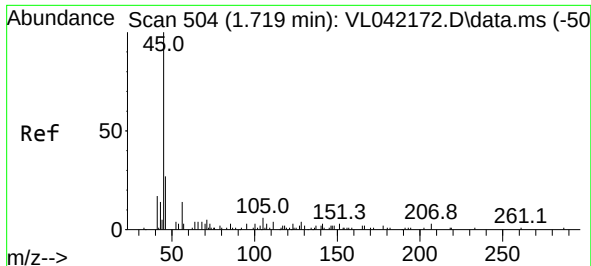
Tgt Ion:101 Resp: 1623

Ion Ratio Lower Upper

101 100

103 53.1 50.2 75.2

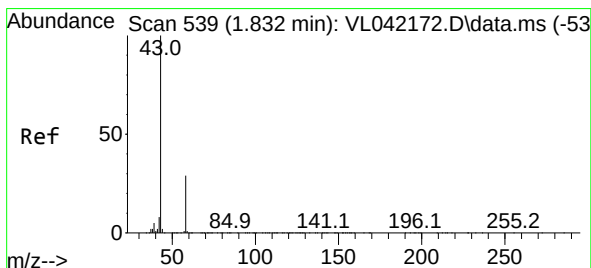
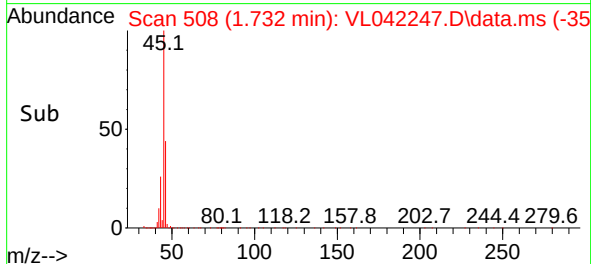
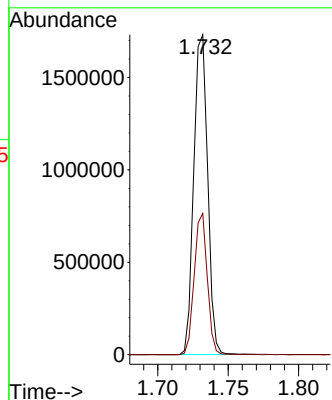
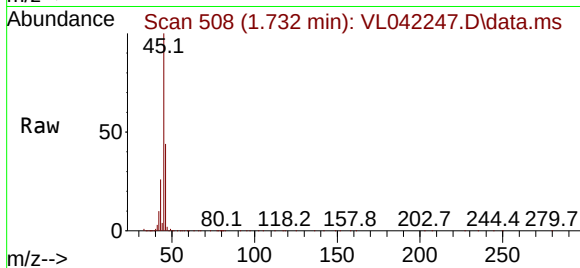




#13
Ethanol
Concen: 932.018 ppbv
RT: 1.732 min Scan# 504
Delta R.T. 0.013 min
Lab File: VL042247.D
Acq: 07 Apr 2025 23:41

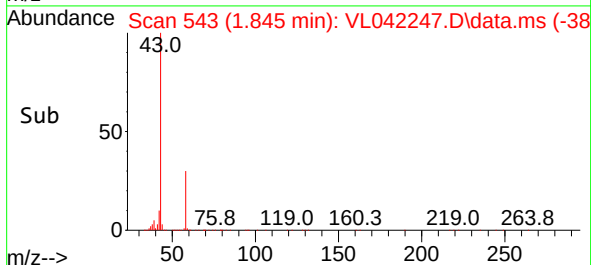
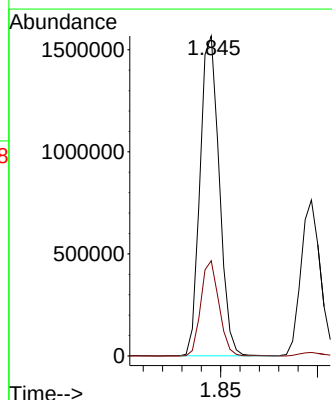
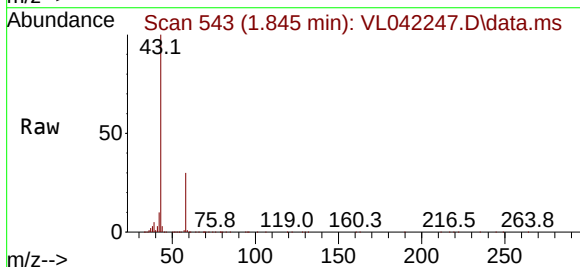
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B10-3-03312025

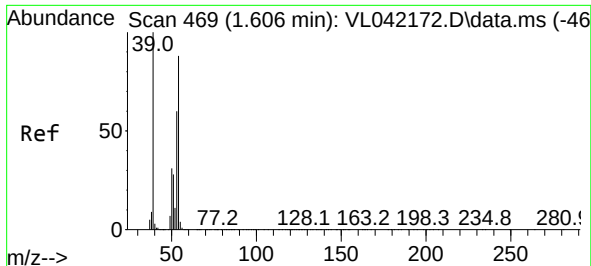
Tgt Ion: 45 Resp: 1184959
Ion Ratio Lower Upper
45 100
46 41.7 20.2 80.8



#15
Acetone
Concen: 39.756 ppbv
RT: 1.845 min Scan# 543
Delta R.T. 0.013 min
Lab File: VL042247.D
Acq: 07 Apr 2025 23:41

Tgt Ion: 43 Resp: 1081614
Ion Ratio Lower Upper
43 100
58 28.1 23.2 34.8





#16

1,3-Butadiene

Concen: 1.071 ppbv

RT: 1.496 min Scan# 41

Delta R.T. -0.110 min

Lab File: VL042247.D

Acq: 07 Apr 2025 23:41

Instrument :

MSVOA_L

ClientSampleId :

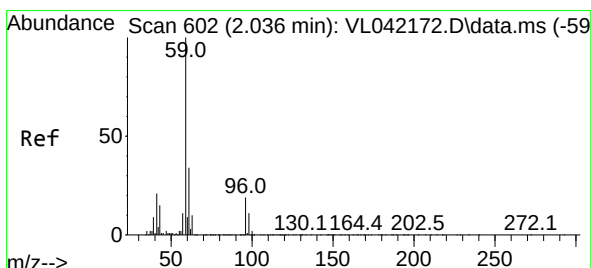
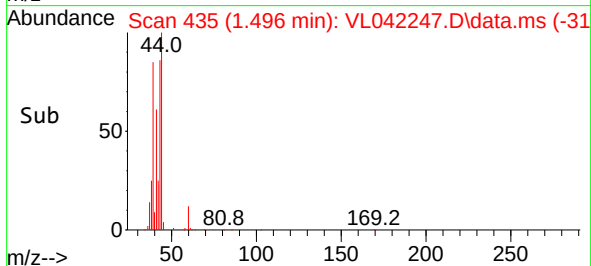
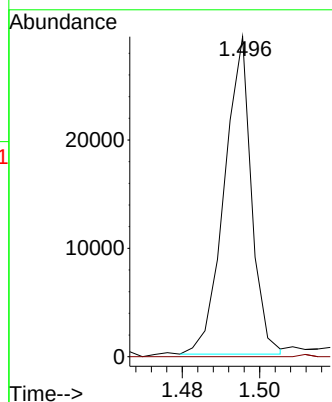
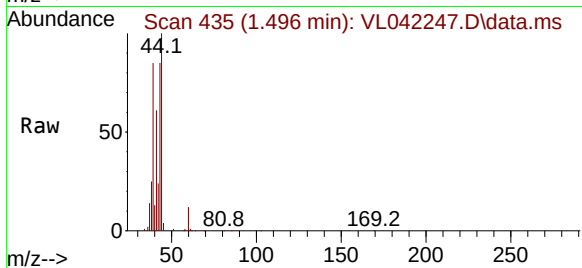
SSSG-B10-3-03312025

Tgt Ion: 39 Resp: 14224

Ion Ratio Lower Upper

39 100

54 0.9 60.7 91.1#



#17

tert-Butyl alcohol

Concen: 2.621 ppbv

RT: 1.897 min Scan# 559

Delta R.T. -0.139 min

Lab File: VL042247.D

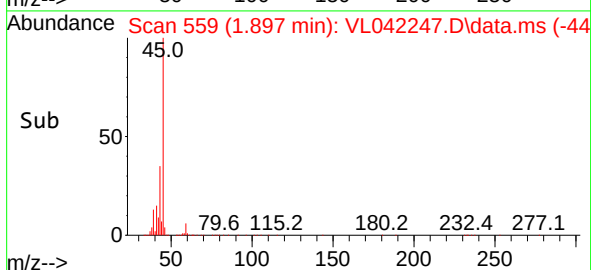
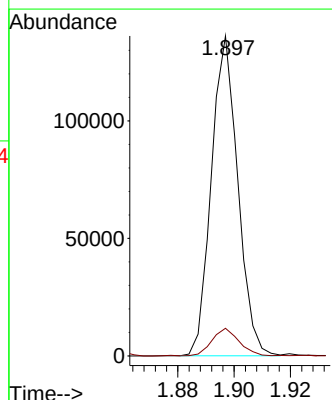
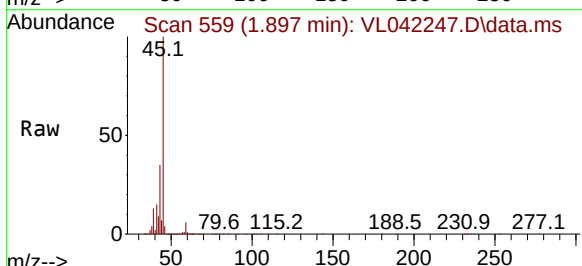
Acq: 07 Apr 2025 23:41

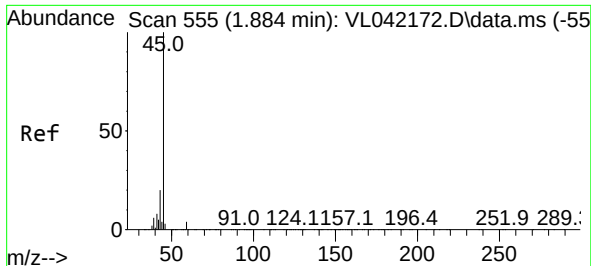
Tgt Ion: 59 Resp: 88824

Ion Ratio Lower Upper

59 100

57 9.2 8.9 13.3

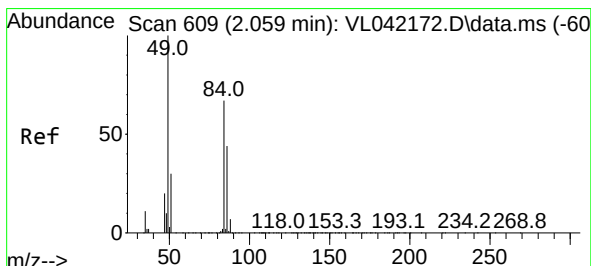
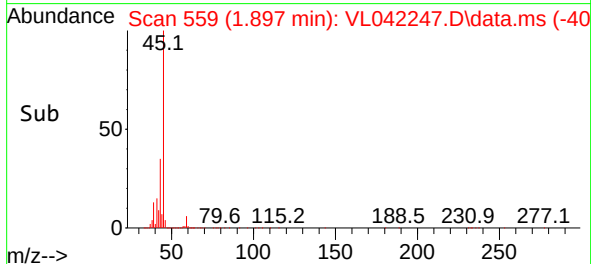
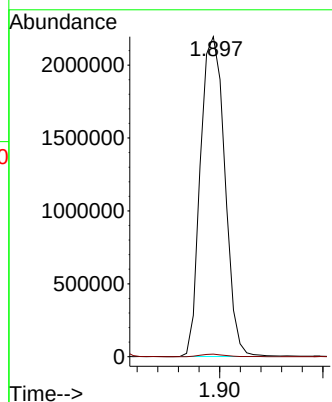
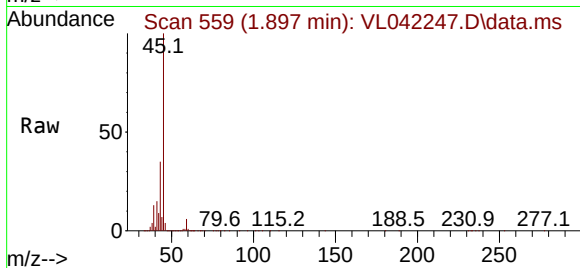




#19
Isopropyl Alcohol
Concen: 117.225 ppbv
RT: 1.897 min Scan# 511
Delta R.T. 0.013 min
Lab File: VL042247.D
Acq: 07 Apr 2025 23:41

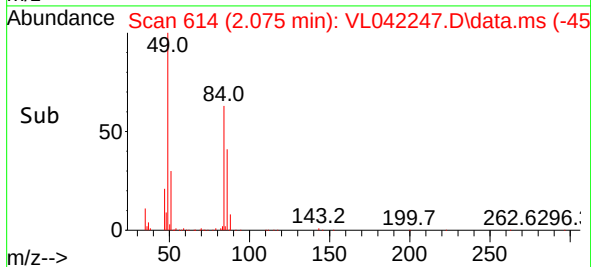
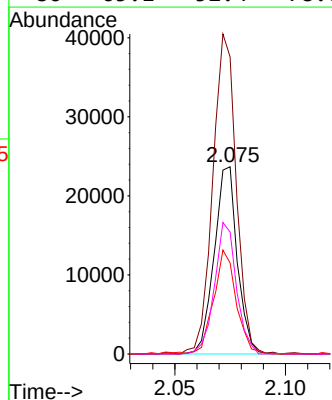
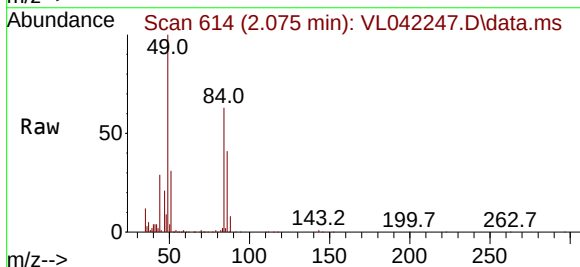
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ClientSampleId :
SSSG-B10-3-03312025

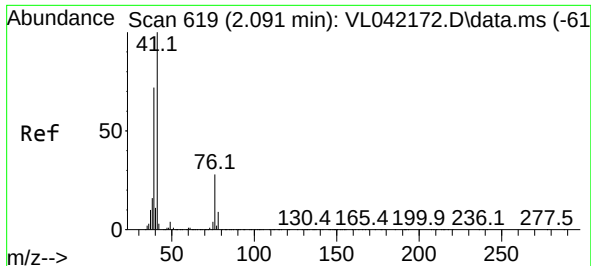
Tgt Ion: 45 Resp: 1799475
Ion Ratio Lower Upper
45 100
58 0.9 36.9 55.3#



#20
Methylene Chloride
Concen: 1.699 ppbv
RT: 2.075 min Scan# 614
Delta R.T. 0.016 min
Lab File: VL042247.D
Acq: 07 Apr 2025 23:41

Tgt Ion: 84 Resp: 17220
Ion Ratio Lower Upper
84 100
49 158.6 120.2 180.4
51 48.5 37.4 56.0
86 65.1 52.4 78.6

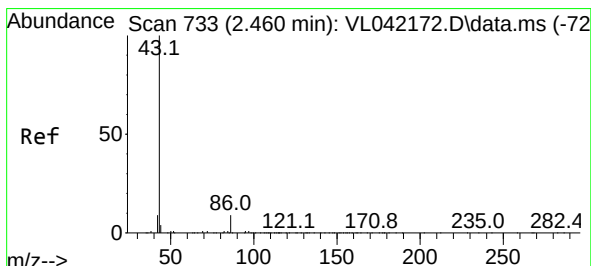
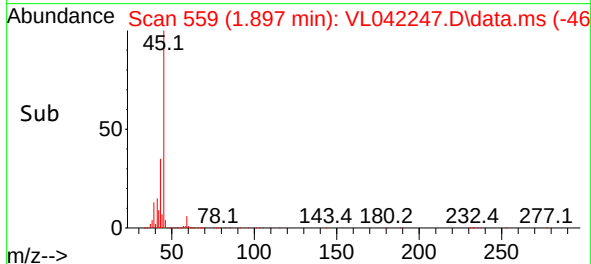
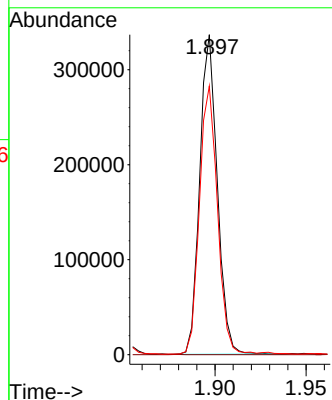
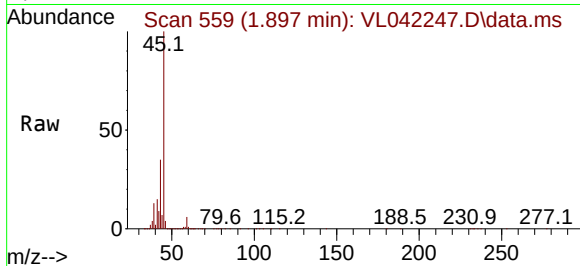




#21
 Allyl Chloride
 Concen: 11.764 ppbv
 RT: 1.897 min Scan# 51
 Delta R.T. -0.194 min
 Lab File: VL042247.D
 Acq: 07 Apr 2025 23:41

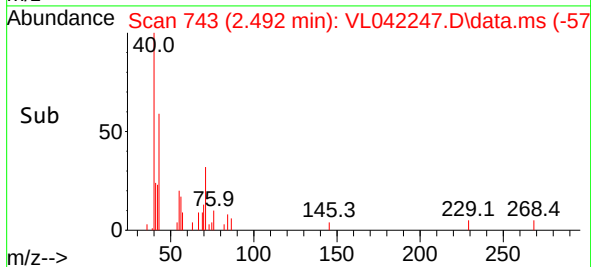
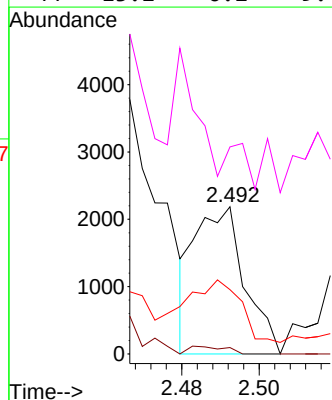
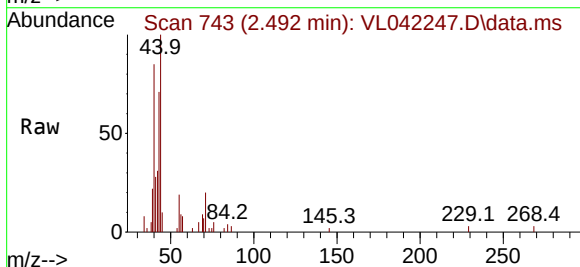
Instrument :
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 ClientSampleId :
 SSSG-B10-3-03312025

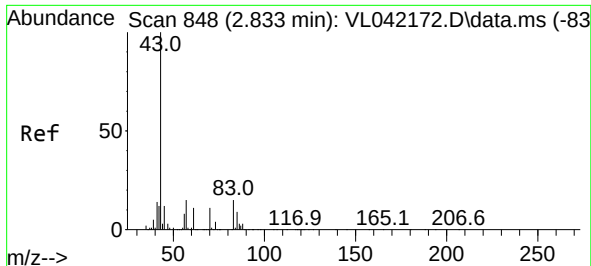
Tgt Ion: 41 Resp: 225725
 Ion Ratio Lower Upper
 41 100
 76 0.1 24.1 36.1#
 39 86.6 61.1 91.7



#23
 Vinyl Acetate
 Concen: 0.167 ppbv
 RT: 2.492 min Scan# 743
 Delta R.T. 0.032 min
 Lab File: VL042247.D
 Acq: 07 Apr 2025 23:41

Tgt Ion: 43 Resp: 1963
 Ion Ratio Lower Upper
 43 100
 86 4.3 5.5 8.3#
 42 35.9 8.6 13.0#
 44 13.2 6.2 9.4#





#25

Ethyl Acetate

Concen: 0.334 ppbv

RT: 2.855 min Scan# 81

Delta R.T. 0.022 min

Lab File: VL042247.D

Acq: 07 Apr 2025 23:41

Instrument :

MSVOA_L

ClientSampleId :

SSSG-B10-3-03312025

Tgt Ion: 43 Resp: 23565

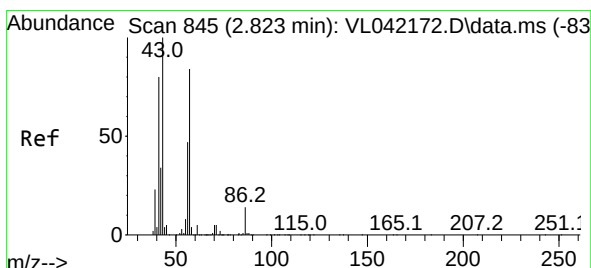
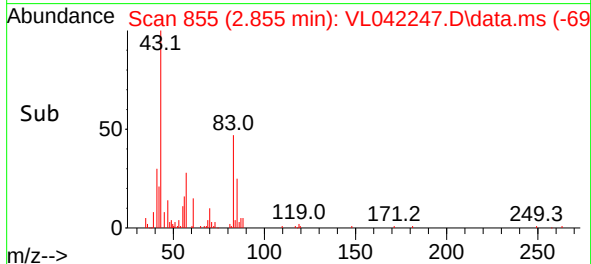
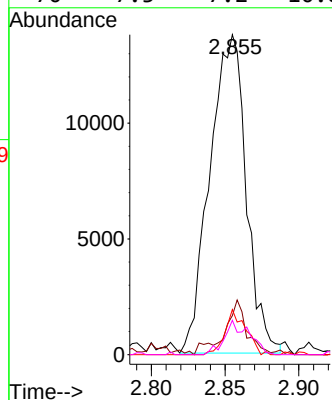
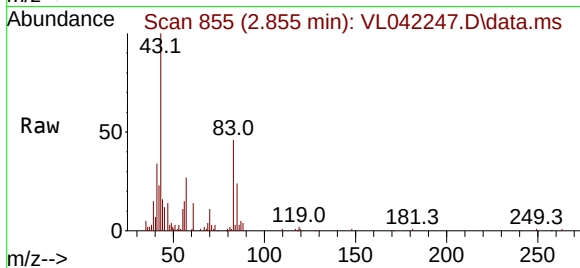
Ion Ratio Lower Upper

43 100

45 11.4 8.2 12.2

61 8.1 7.3 10.9

70 7.3 7.2 10.8



#26

Hexane

Concen: 0.510 ppbv

RT: 2.845 min Scan# 852

Delta R.T. 0.022 min

Lab File: VL042247.D

Acq: 07 Apr 2025 23:41

Tgt Ion: 57 Resp: 13903

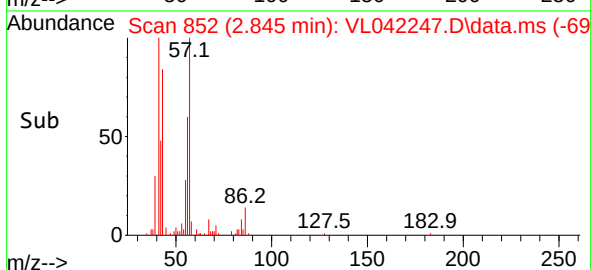
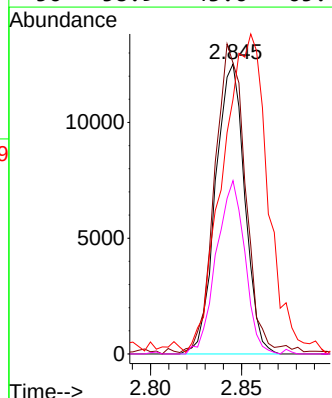
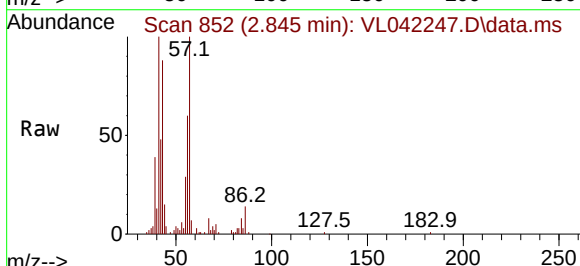
Ion Ratio Lower Upper

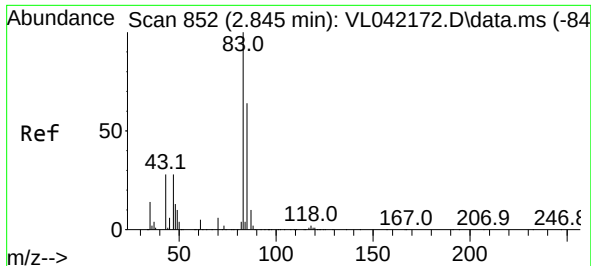
57 100

41 116.7 76.6 114.8#

43 171.7 207.8 311.8#

56 58.9 43.6 65.4





#29

Chloroform

Concen: 0.358 ppbv

RT: 2.865 min Scan# 81

Delta R.T. 0.019 min

Lab File: VL042247.D

Acq: 07 Apr 2025 23:41

Instrument :

MSVOA_L

ClientSampleId :

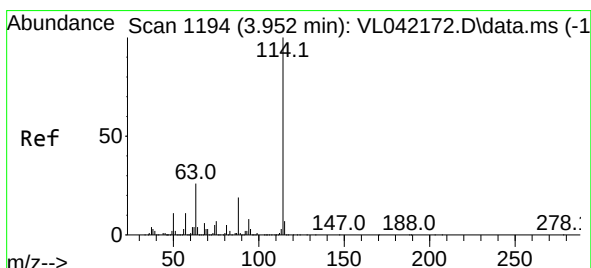
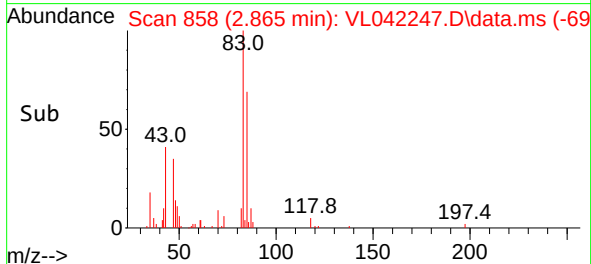
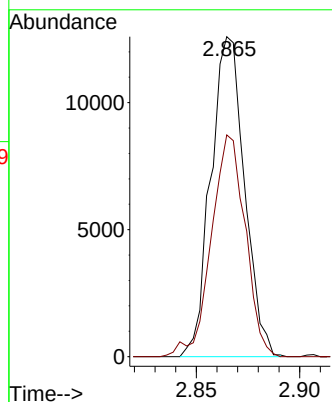
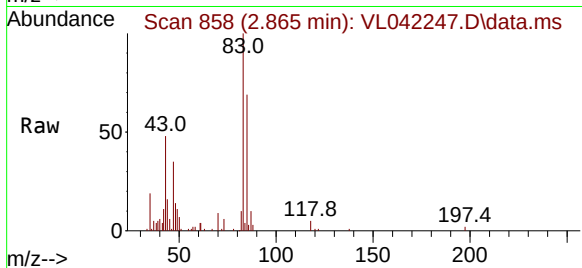
SSSG-B10-3-03312025

Tgt Ion: 83 Resp: 14300

Ion Ratio Lower Upper

83 100

85 69.3 51.4 77.2



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.985 min Scan# 1204

Delta R.T. 0.032 min

Lab File: VL042247.D

Acq: 07 Apr 2025 23:41

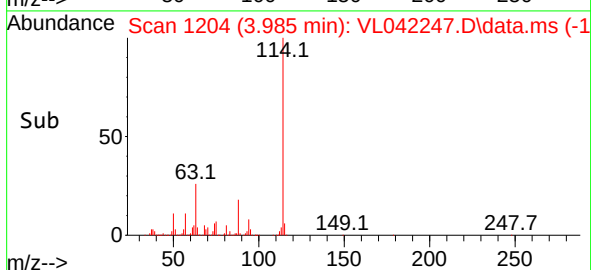
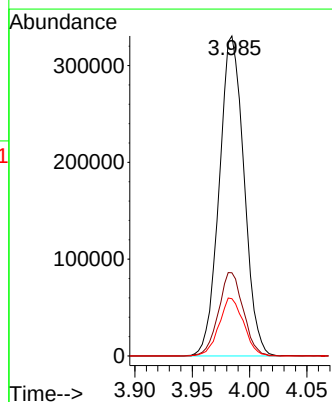
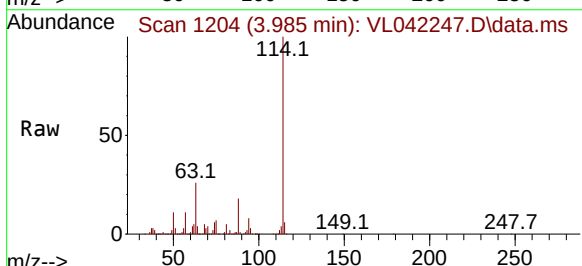
Tgt Ion: 114 Resp: 495845

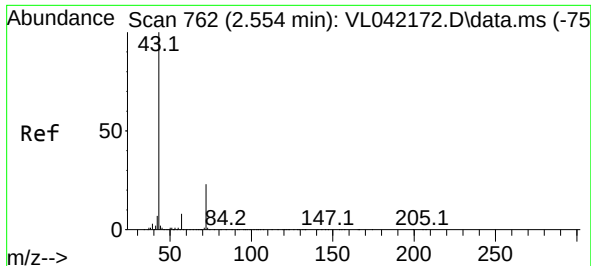
Ion Ratio Lower Upper

114 100

63 26.2 20.7 31.1

88 18.0 15.0 22.4

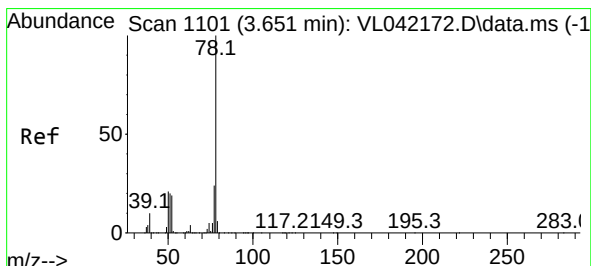
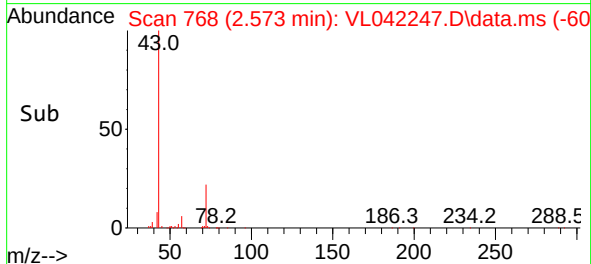
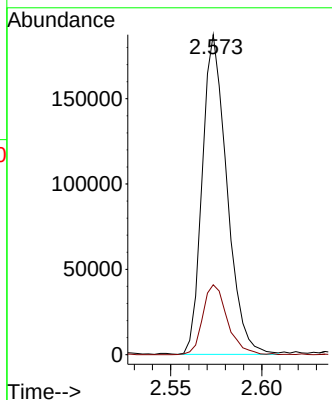
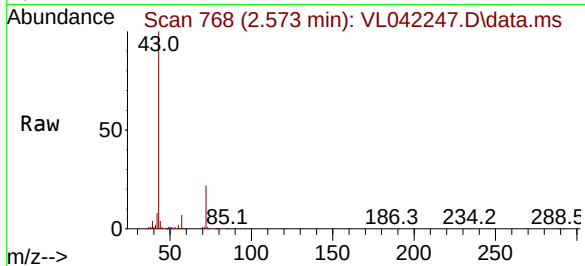




#34
2-Butanone
Concen: 4.910 ppbv
RT: 2.573 min Scan# 71
Delta R.T. 0.019 min
Lab File: VL042247.D
Acq: 07 Apr 2025 23:41

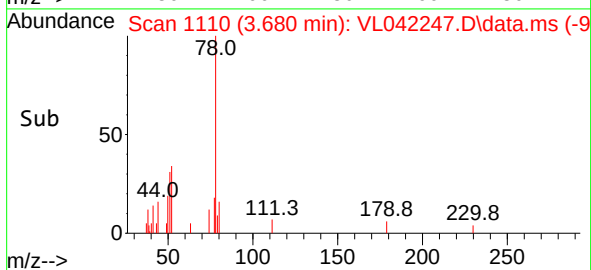
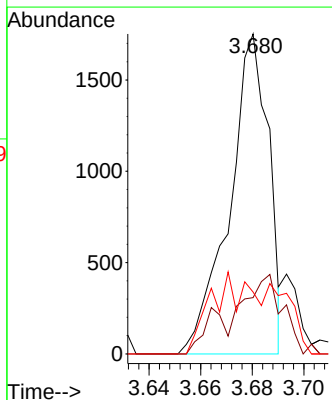
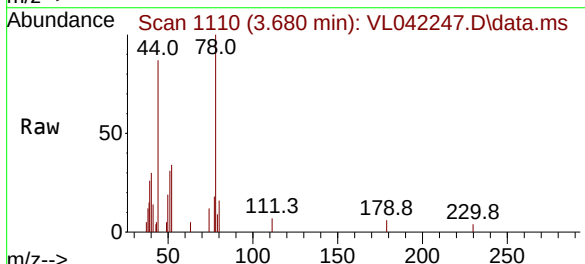
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B10-3-03312025

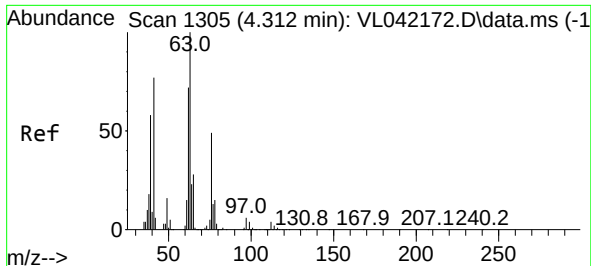
Tgt Ion: 43 Resp: 176547
Ion Ratio Lower Upper
43 100
72 22.0 18.2 27.2



#36
Benzene
Concen: 0.038 ppbv
RT: 3.680 min Scan# 1110
Delta R.T. 0.029 min
Lab File: VL042247.D
Acq: 07 Apr 2025 23:41

Tgt Ion: 78 Resp: 1853
Ion Ratio Lower Upper
78 100
77 17.6 19.1 28.7#
50 19.3 16.6 24.8





#39

1,2-Dichloropropane

Concen: 7.224 ppbv

RT: 3.981 min Scan# 11

Delta R.T. -0.330 min

Lab File: VL042247.D

Acq: 07 Apr 2025 23:41

Instrument :

MSVOA_L

ClientSampleId :

SSSG-B10-3-03312025

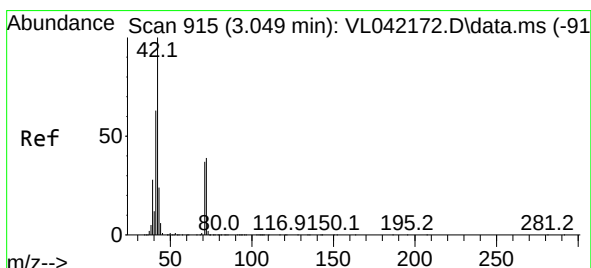
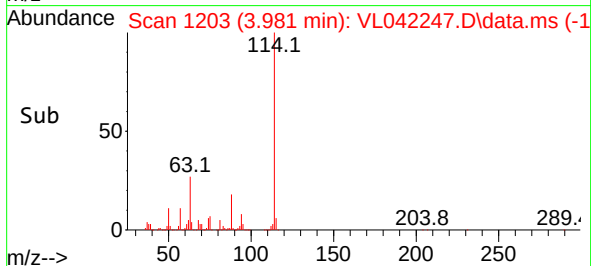
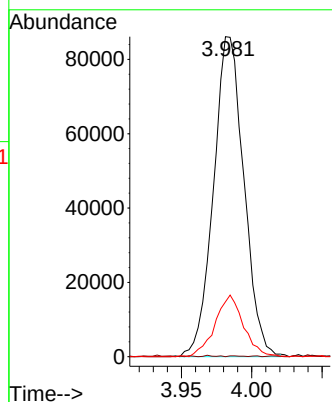
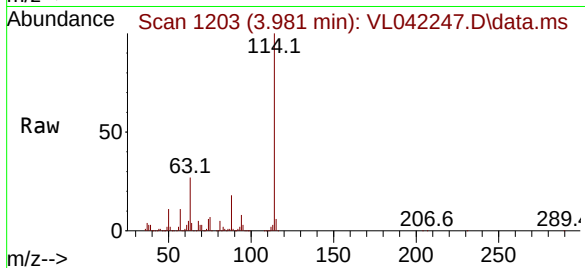
Tgt Ion: 63 Resp: 129329

Ion Ratio Lower Upper

63 100

41 0.0 61.7 92.5#

62 16.9 57.6 86.4#



#41

Tetrahydrofuran

Concen: 0.220 ppbv

RT: 3.088 min Scan# 927

Delta R.T. 0.039 min

Lab File: VL042247.D

Acq: 07 Apr 2025 23:41

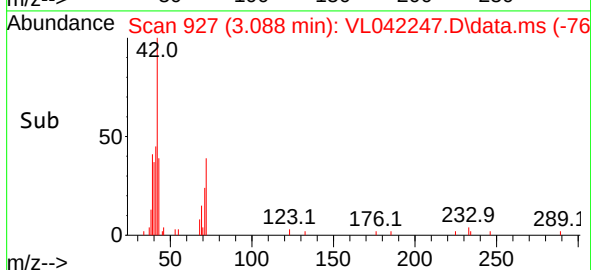
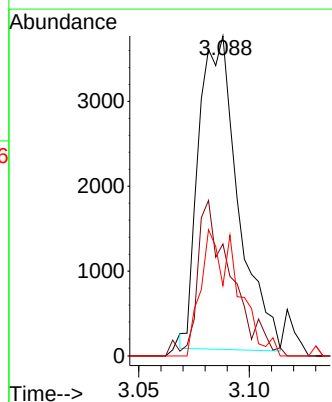
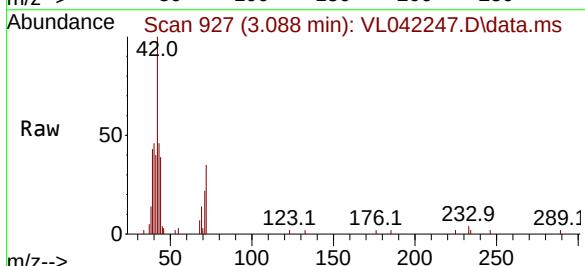
Tgt Ion: 42 Resp: 4558

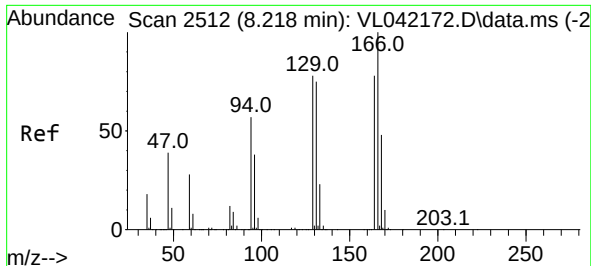
Ion Ratio Lower Upper

42 100

72 43.3 31.4 47.0

71 37.4 30.2 45.4

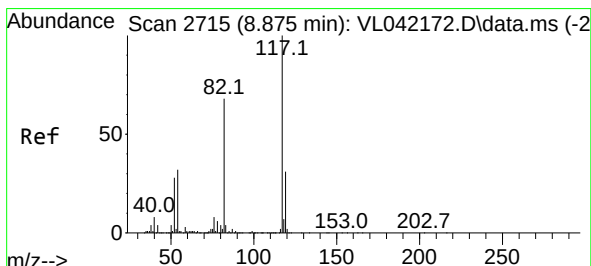
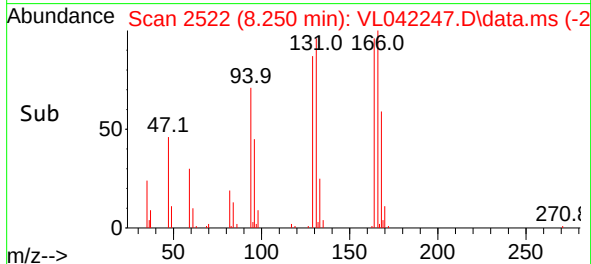
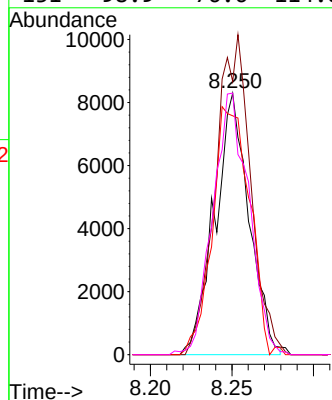
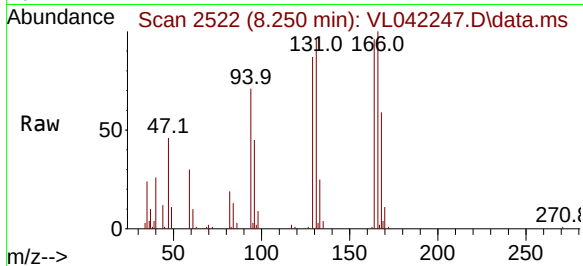




#52
Tetrachloroethene
Concen: 0.621 ppbv
RT: 8.250 min Scan# 21
Delta R.T. 0.032 min
Lab File: VL042247.D
Acq: 07 Apr 2025 23:41

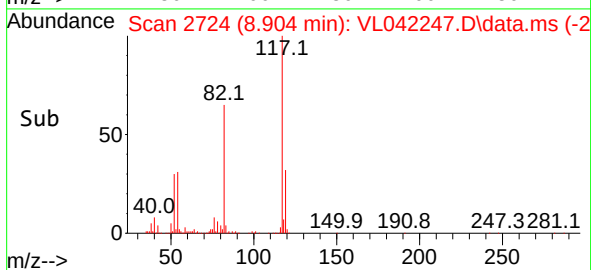
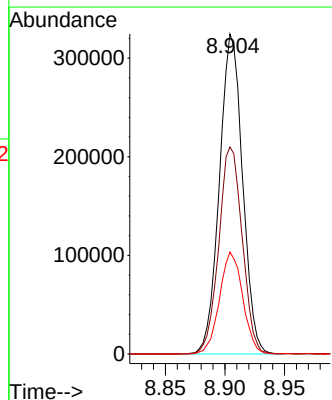
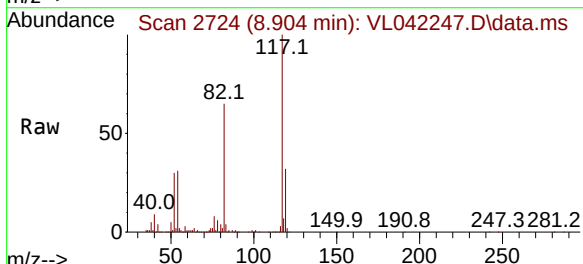
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B10-3-03312025

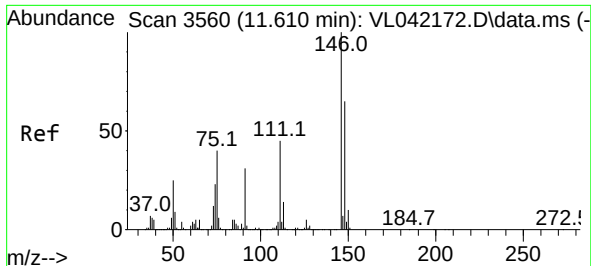
Tgt Ion:164	Resp:	12097
Ion	Ratio	Lower Upper
164	100	
166	104.5	102.5 153.7
129	91.4	79.8 119.8
131	98.9	76.6 114.8



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.904 min Scan# 2724
Delta R.T. 0.029 min
Lab File: VL042247.D
Acq: 07 Apr 2025 23:41

Tgt Ion:117	Resp:	437126
Ion	Ratio	Lower Upper
117	100	
82	65.8	55.8 83.6
119	32.2	25.5 38.3

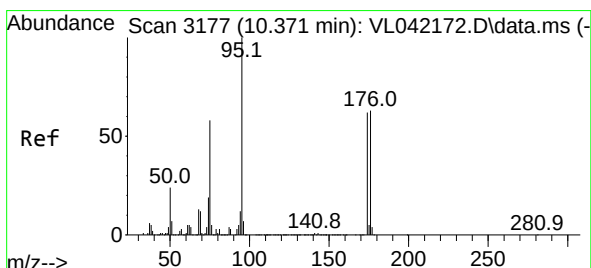
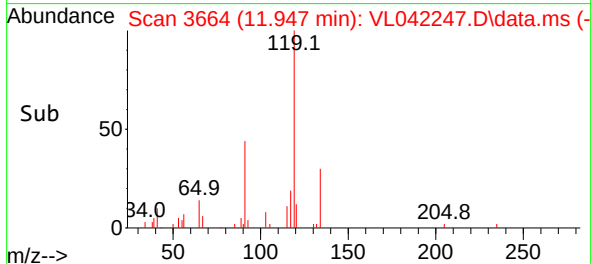
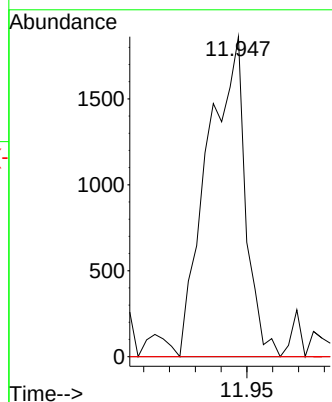
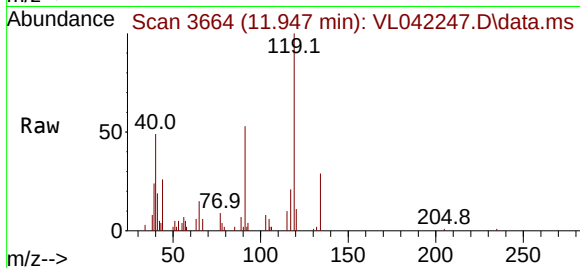




#66
Benzyl Chloride
Concen: 0.208 ppbv
RT: 11.947 min Scan# 3185
Delta R.T. 0.336 min
Lab File: VL042247.D
Acq: 07 Apr 2025 23:41

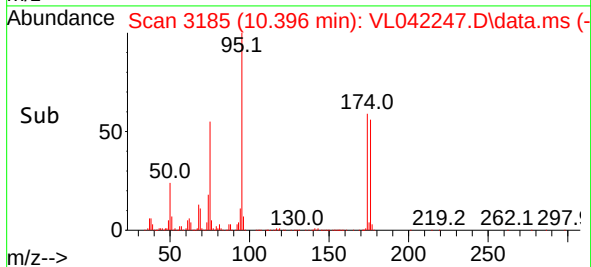
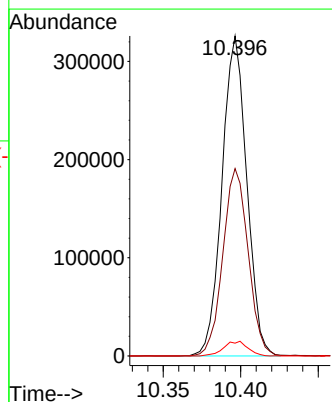
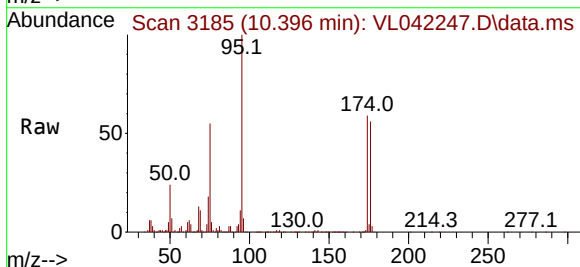
Instrument :
MSVOA_1
ClientSampleId :
SSSG-B10-3-03312025

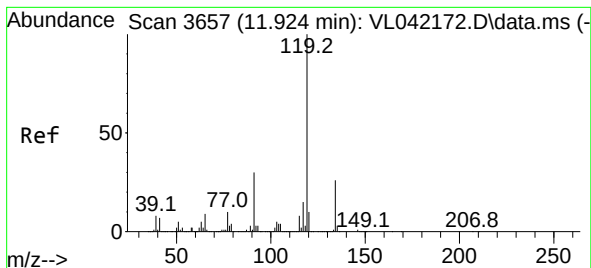
Tgt Ion: 91 Resp: 1899
Ion Ratio Lower Upper
91 100
126 0.0 13.8 20.6#
128 0.0 4.5 6.7#



#68
1-Bromo-4-Fluorobenzene
Concen: 10.077 ppbv
RT: 10.396 min Scan# 3185
Delta R.T. 0.026 min
Lab File: VL042247.D
Acq: 07 Apr 2025 23:41

Tgt Ion: 95 Resp: 361726
Ion Ratio Lower Upper
95 100
174 59.9 50.6 76.0
175 4.5 3.8 5.6





#69

p-Isopropyltoluene

Concen: 0.048 ppbv

RT: 11.943 min Scan# 30

Delta R.T. 0.019 min

Lab File: VL042247.D

Acq: 07 Apr 2025 23:41

Instrument :

MSVOA_1

ClientSampleId :

SSSG-B10-3-03312025

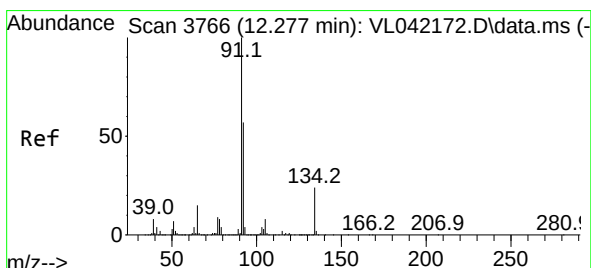
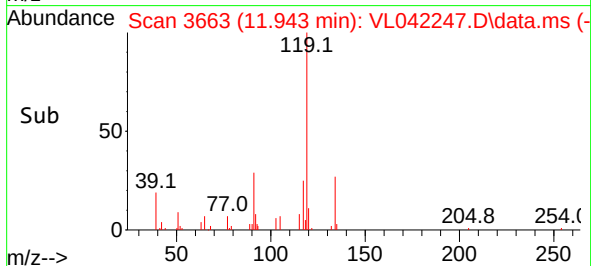
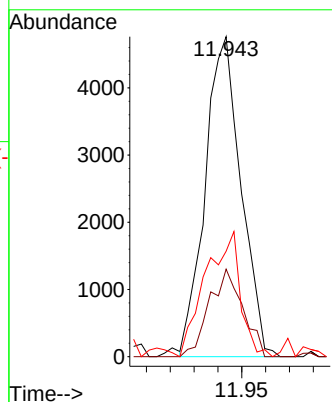
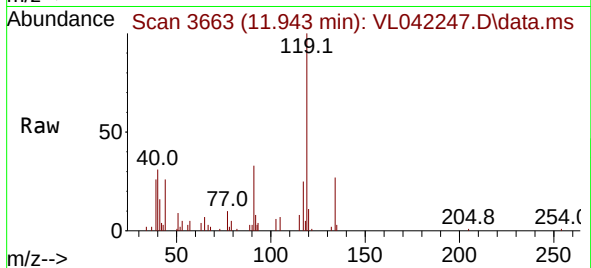
Tgt Ion:119 Resp: 4989

Ion Ratio Lower Upper

119 100

134 25.9 20.4 30.6

91 0.0 23.7 35.5#



#70

n-Butylbenzene

Concen: 0.085 ppbv

RT: 12.439 min Scan# 3816

Delta R.T. 0.162 min

Lab File: VL042247.D

Acq: 07 Apr 2025 23:41

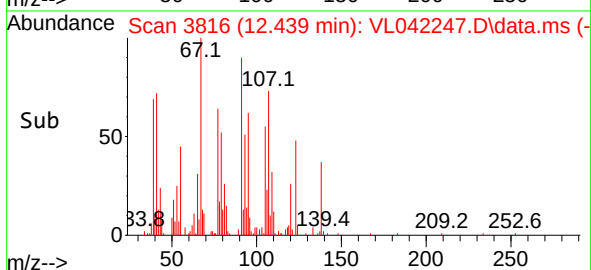
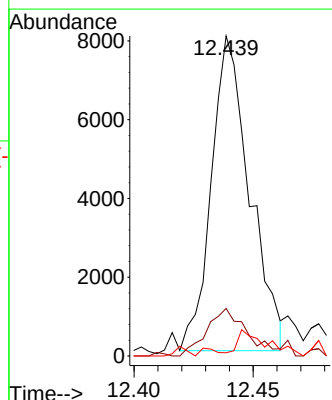
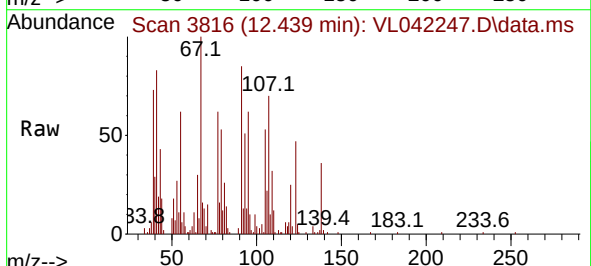
Tgt Ion: 91 Resp: 8947

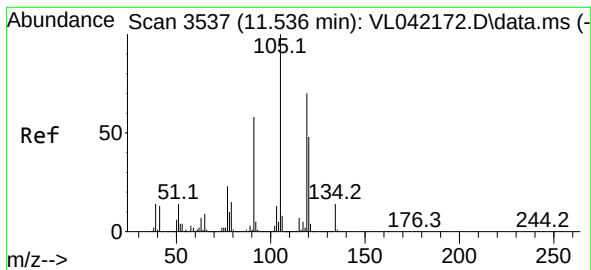
Ion Ratio Lower Upper

91 100

92 0.0 44.9 67.3#

134 9.6 19.2 28.8#





#74

1,2,4-Trimethylbenzene

Concen: 0.059 ppbv

RT: 11.552 min Scan# 31

Delta R.T. 0.016 min

Lab File: VL042247.D

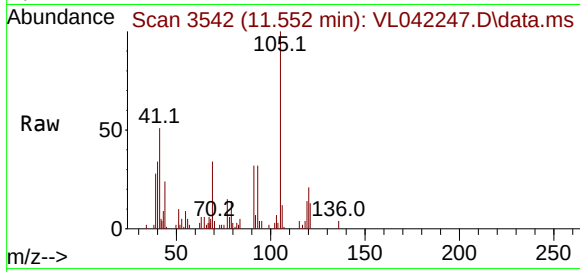
Acq: 07 Apr 2025 23:41

Instrument :

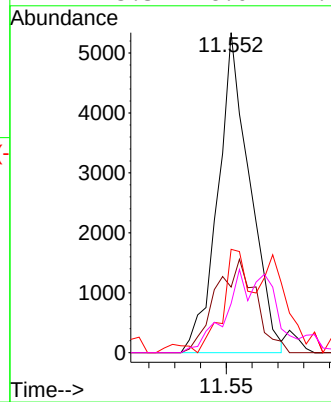
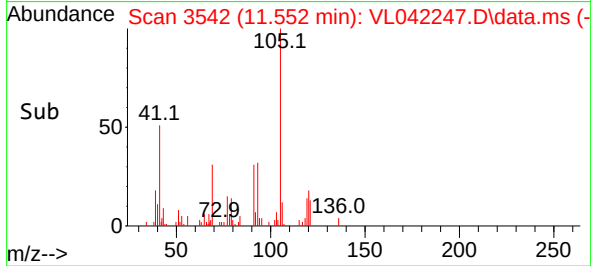
MSVOA_L

ClientSampleId :

SSSG-B10-3-03312025



Tgt Ion:	105	Resp:	4585
Ion	Ratio	Lower	Upper
105	100		
120	33.5	38.6	58.0#
91	30.1	46.2	69.2#
77	15.3	18.6	27.8#



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040725\
 Data File : VL042248.D
 Acq On : 08 Apr 2025 00:12
 Operator : SY/MD
 Sample : Q1725-06DL 40X
 Misc : 400mL/MSVOA_L
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SSSG-B10-3-03312025DL

Quant Time: Apr 08 01:38:49 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri Mar 28 02:00:52 2025
 Response via : Initial Calibration

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

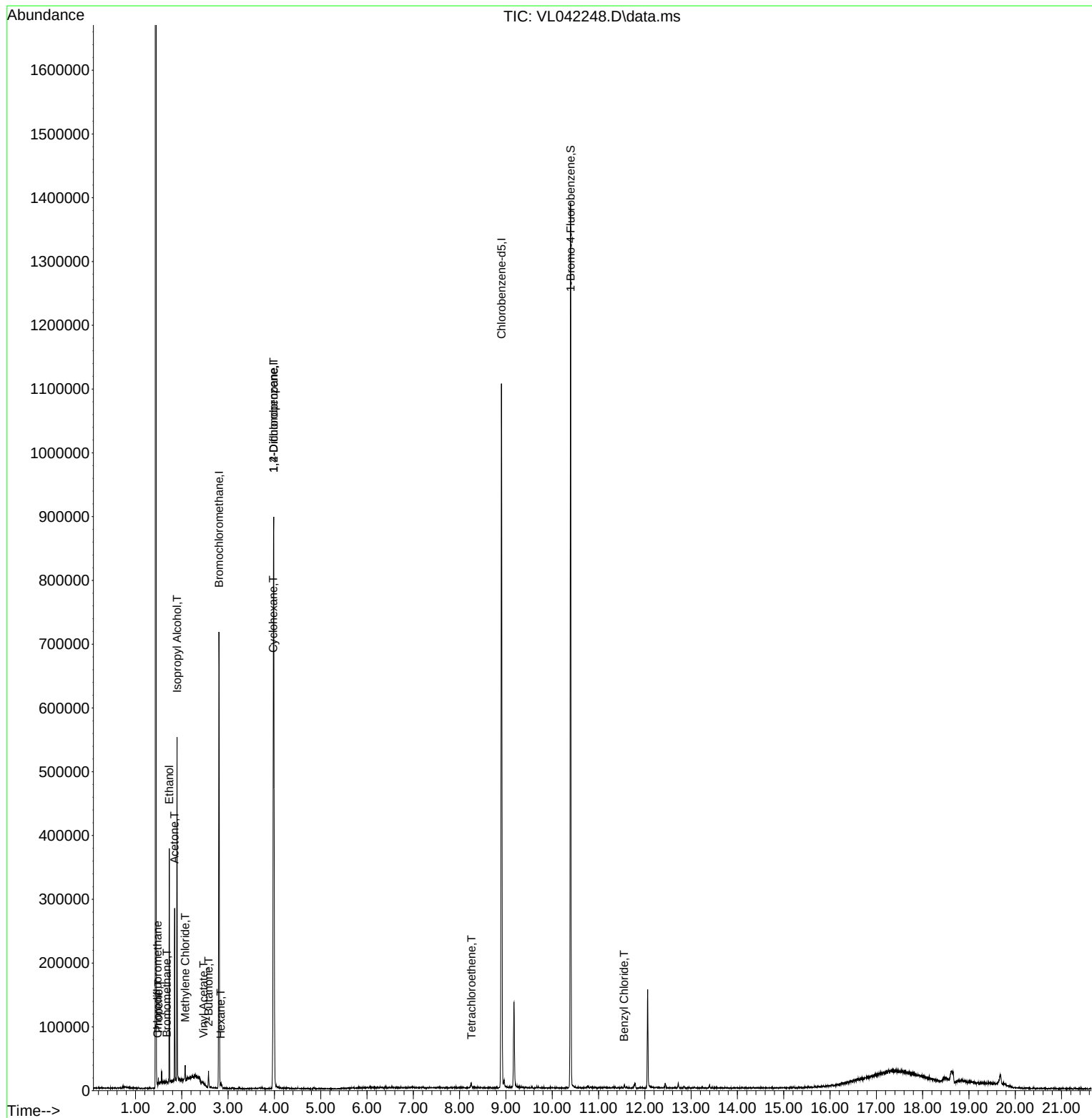
Internal Standards						
1) Bromochloromethane	2.803	49	194329	10.000	ppbv	0.02
33) 1,4-Difluorobenzene	3.984	114	493793	10.000	ppbv	0.03
55) Chlorobenzene-d5	8.904	117	430982	10.000	ppbv	0.03
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.396	95	333104	9.412	ppbv	0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	94.100%
Target Compounds						
					Qvalue	
3) Chlorodifluoromethane	1.473	51	1509	0.051	ppbv #	78
6) Bromomethane	1.677	94	163	0.031	ppbv #	4
9) Propene	1.495	41	1074	0.080	ppbv #	38
13) Ethanol	1.728	45	126102	99.289	ppbv	83
15) Acetone	1.845	43	110494	4.066	ppbv	96
19) Isopropyl Alcohol	1.897	45	223285	14.561	ppbv #	32
20) Methylene Chloride	2.075	84	3332	0.329	ppbv	95
23) Vinyl Acetate	2.473	43	454	0.039	ppbv #	1
26) Hexane	2.842	57	1191	0.044	ppbv #	56
30) Cyclohexane	3.975	84	1517	0.064	ppbv #	1
34) 2-Butanone	2.576	43	14984	0.418	ppbv	97
39) 1,2-Dichloropropane	3.984	63	129039	7.238	ppbv #	22
52) Tetrachloroethene	8.254	164	722	0.037	ppbv #	62
66) Benzyl Chloride	11.552	91	294	0.033	ppbv #	66

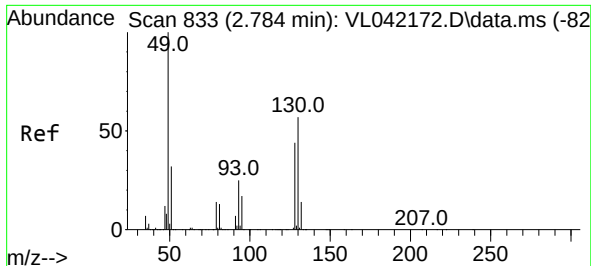
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040725\
Data File : VL042248.D
Acq On : 08 Apr 2025 00:12
Operator : SY/MD
Sample : Q1725-06DL 40X
Misc : 400mL/MSVOA_L
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
SSSG-B10-3-03312025DL

Quant Time: Apr 08 01:38:49 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Fri Mar 28 02:00:52 2025
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 2.803 min Scan# 81

Delta R.T. 0.019 min

Lab File: VL042248.D

Acq: 08 Apr 2025 00:12

Instrument :

MSVOA_L

ClientSampleId :

SSSG-B10-3-03312025DL

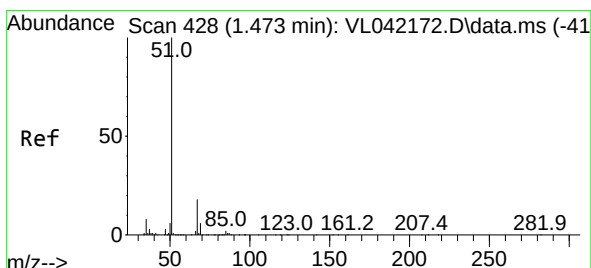
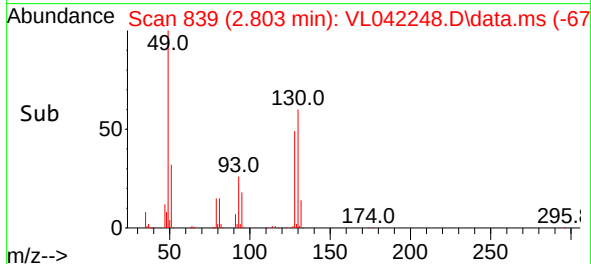
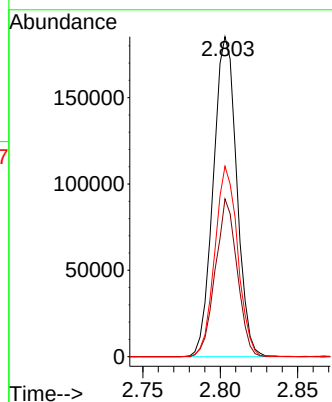
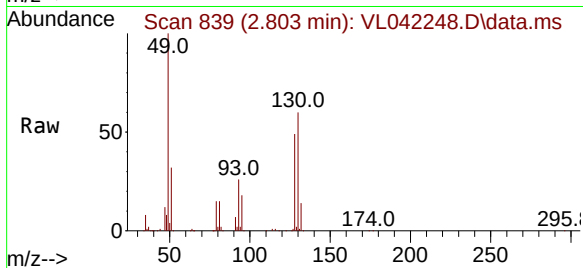
Tgt Ion: 49 Resp: 194329

Ion Ratio Lower Upper

49 100

128 46.0 22.9 68.5

130 58.3 28.8 86.4



#3

Chlorodifluoromethane

Concen: 0.051 ppbv

RT: 1.473 min Scan# 428

Delta R.T. -0.000 min

Lab File: VL042248.D

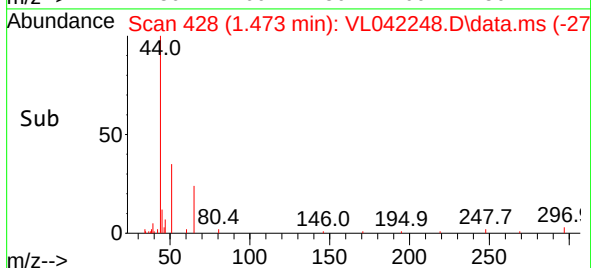
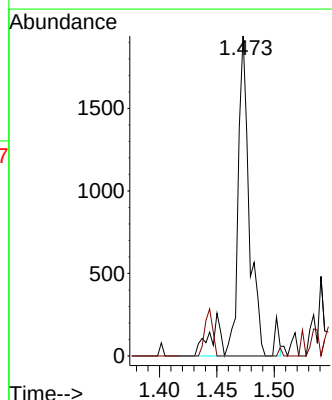
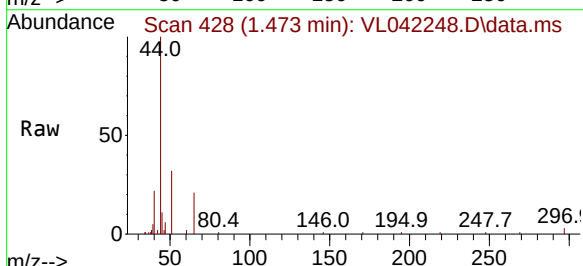
Acq: 08 Apr 2025 00:12

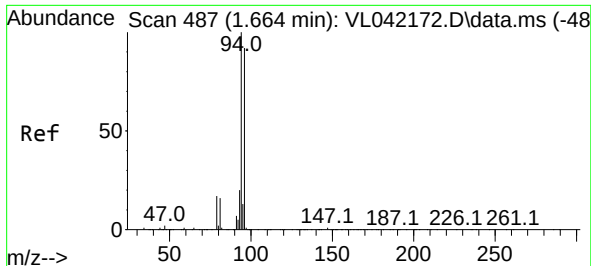
Tgt Ion: 51 Resp: 1509

Ion Ratio Lower Upper

51 100

67 9.0 15.0 22.6#

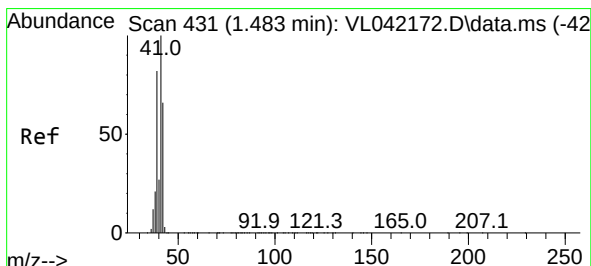
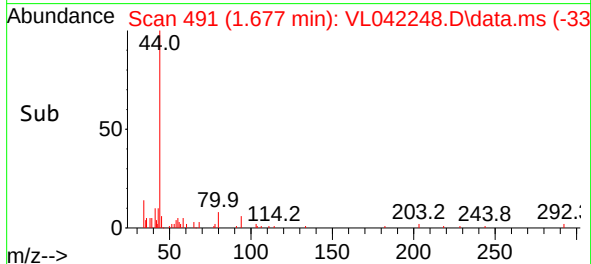
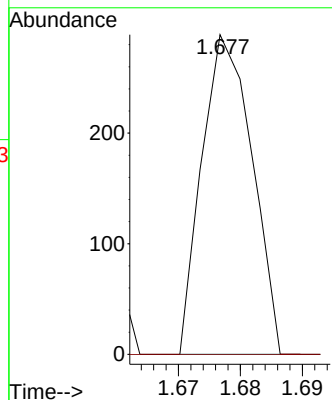
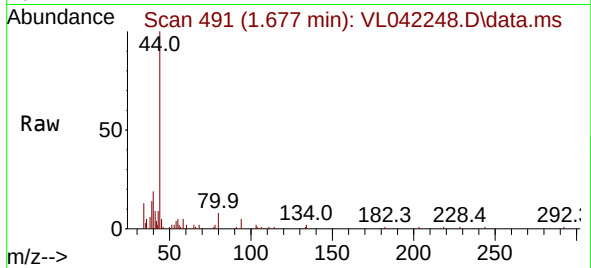




#6
Bromomethane
Concen: 0.031 ppbv
RT: 1.677 min Scan# 491
Delta R.T. 0.013 min
Lab File: VL042248.D
Acq: 08 Apr 2025 00:12

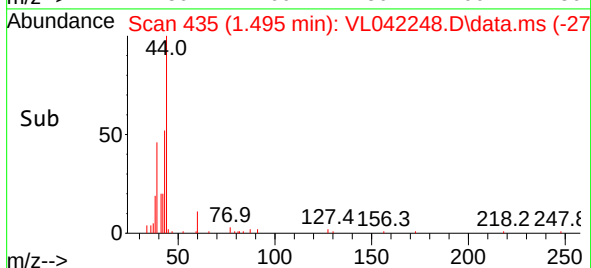
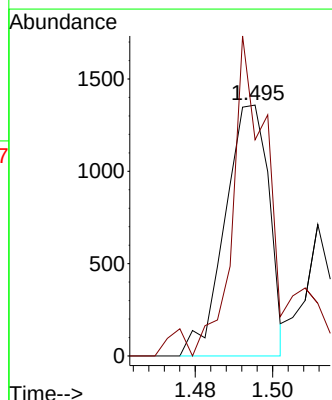
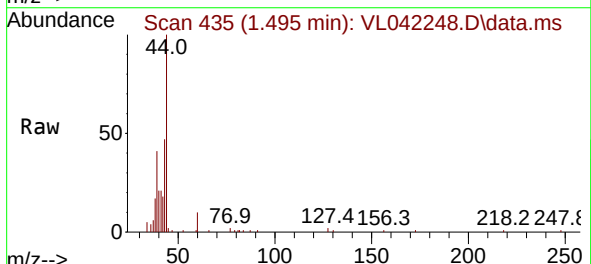
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B10-3-03312025DL

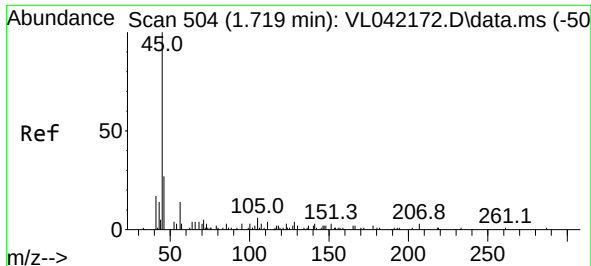
Tgt Ion: 94 Resp: 163
Ion Ratio Lower Upper
94 100
96 0.0 73.1 109.7#



#9
Propene
Concen: 0.080 ppbv
RT: 1.495 min Scan# 435
Delta R.T. 0.013 min
Lab File: VL042248.D
Acq: 08 Apr 2025 00:12

Tgt Ion: 41 Resp: 1074
Ion Ratio Lower Upper
41 100
42 119.6 55.4 83.2#

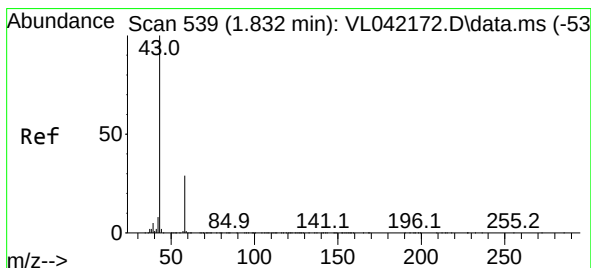
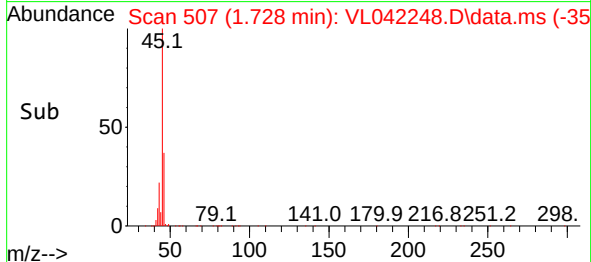
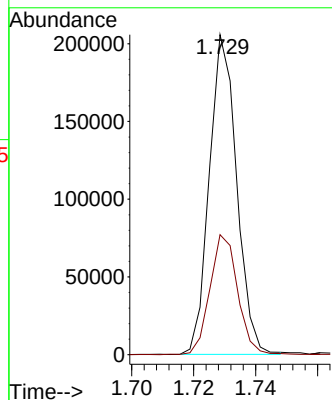
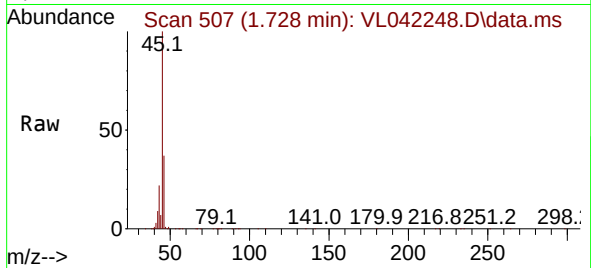




#13
Ethanol
Concen: 99.289 ppbv
RT: 1.728 min Scan# 504
Delta R.T. 0.009 min
Lab File: VL042248.D
Acq: 08 Apr 2025 00:12

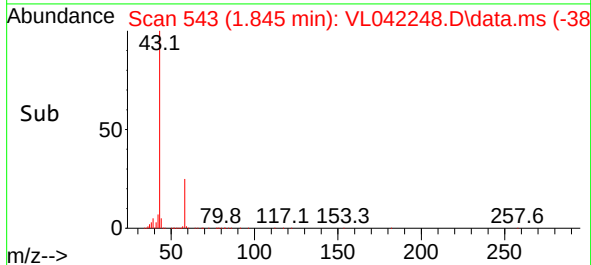
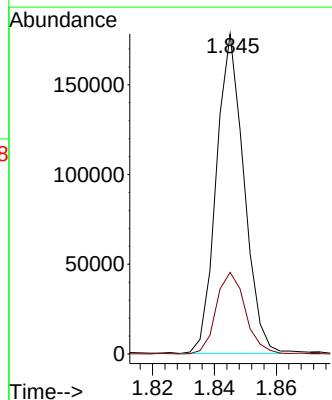
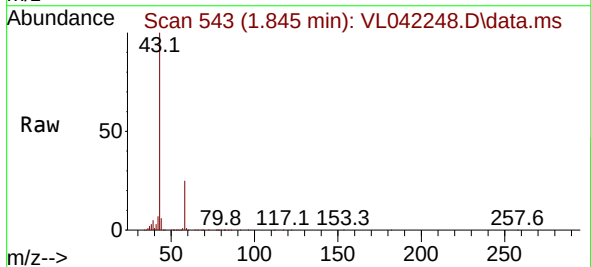
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B10-3-03312025DL

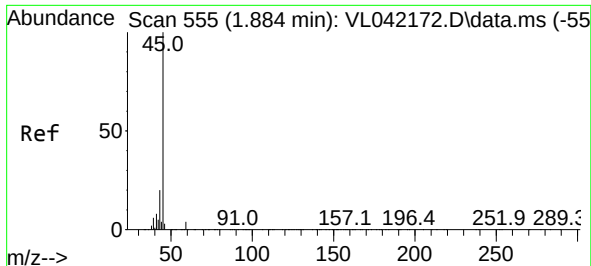
Tgt Ion: 45 Resp: 126102
Ion Ratio Lower Upper
45 100
46 38.8 20.2 80.8



#15
Acetone
Concen: 4.066 ppbv
RT: 1.845 min Scan# 543
Delta R.T. 0.013 min
Lab File: VL042248.D
Acq: 08 Apr 2025 00:12

Tgt Ion: 43 Resp: 110494
Ion Ratio Lower Upper
43 100
58 27.1 23.2 34.8

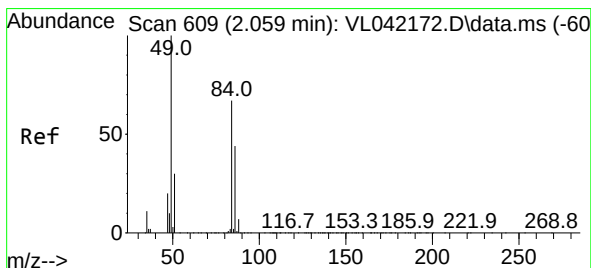
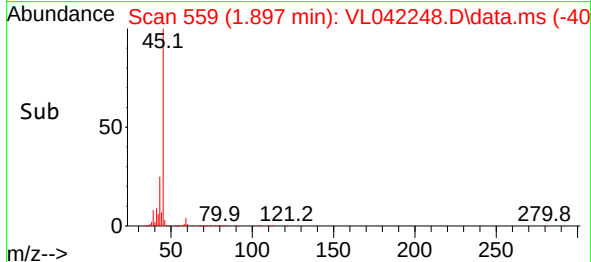
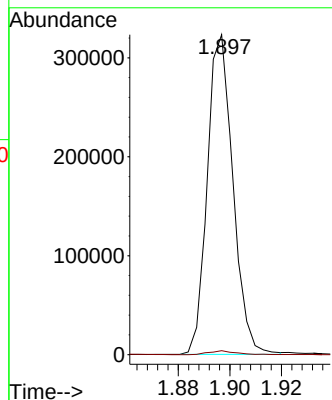
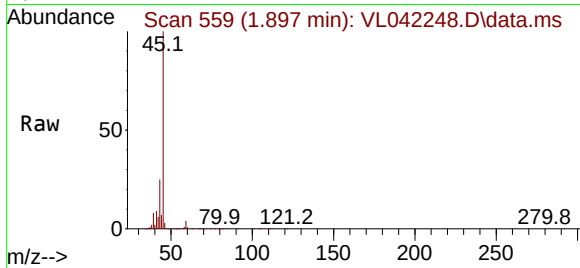




#19
Isopropyl Alcohol
Concen: 14.561 ppbv
RT: 1.897 min Scan# 51
Delta R.T. 0.013 min
Lab File: VL042248.D
Acq: 08 Apr 2025 00:12

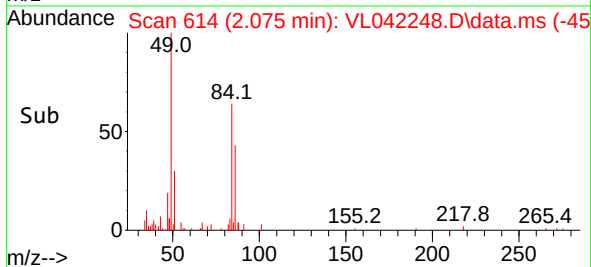
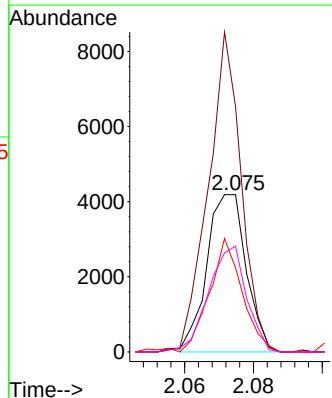
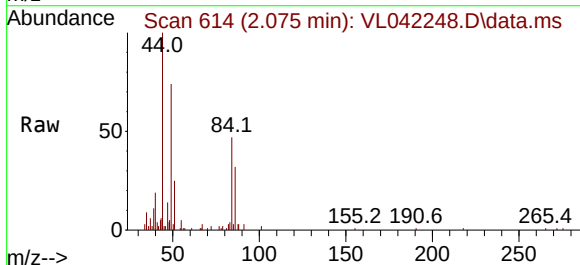
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B10-3-03312025DL

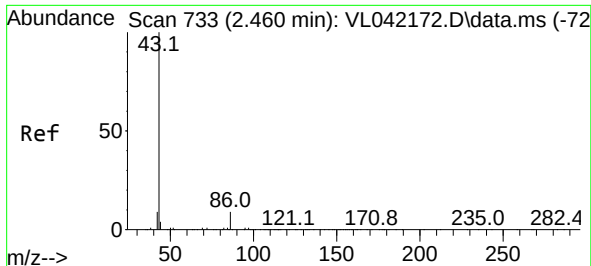
Tgt Ion: 45 Resp: 223285
Ion Ratio Lower Upper
45 100
58 1.4 36.9 55.3#



#20
Methylene Chloride
Concen: 0.329 ppbv
RT: 2.075 min Scan# 614
Delta R.T. 0.016 min
Lab File: VL042248.D
Acq: 08 Apr 2025 00:12

Tgt Ion: 84 Resp: 3332
Ion Ratio Lower Upper
84 100
49 155.9 120.2 180.4
51 53.5 37.4 56.0
86 67.3 52.4 78.6

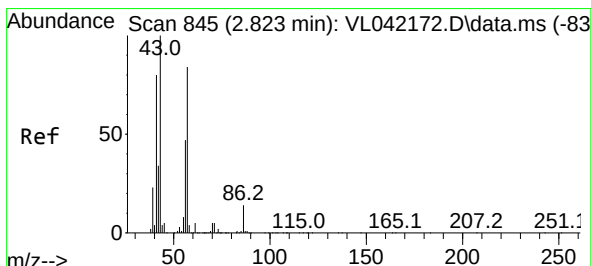
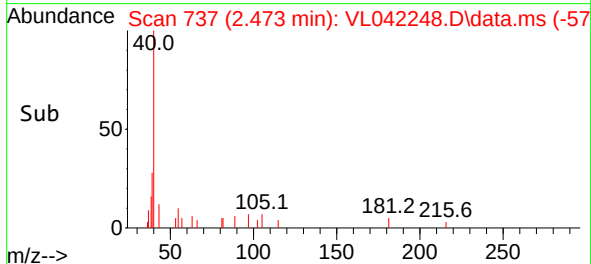
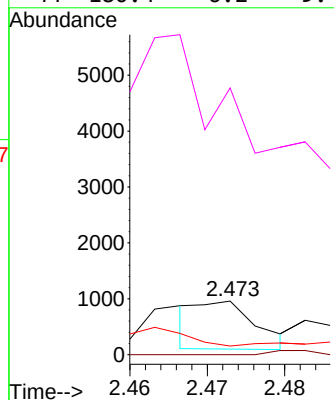
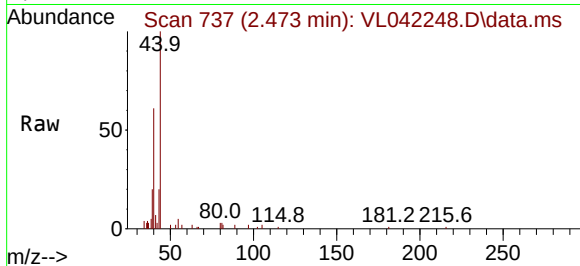




#23
 Vinyl Acetate
 Concen: 0.039 ppbv
 RT: 2.473 min Scan# 71
 Delta R.T. 0.013 min
 Lab File: VL042248.D
 Acq: 08 Apr 2025 00:12

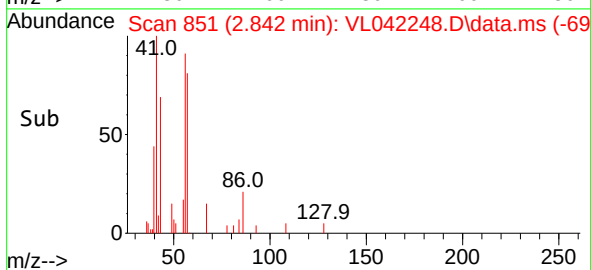
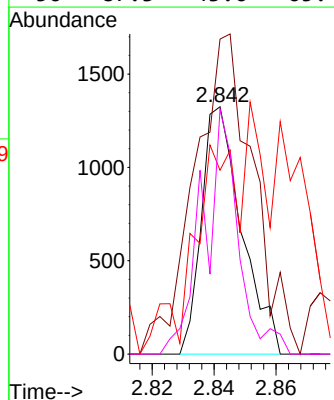
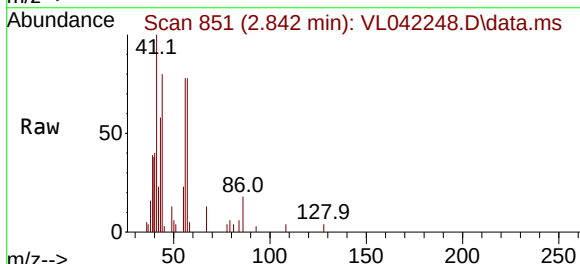
Instrument :
 MSVOA_L
 ClientSampleId :
 SSSG-B10-3-03312025DL

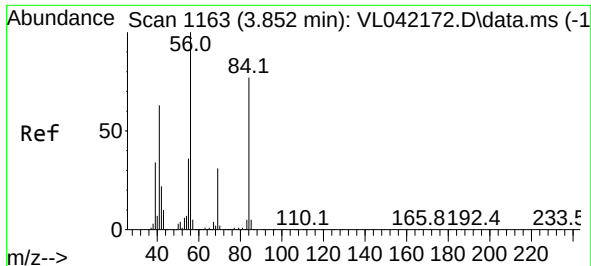
Tgt Ion:	43	Resp:	454
Ion	Ratio	Lower	Upper
43	100		
86	0.0	5.5	8.3#
42	0.0	8.6	13.0#
44	180.4	6.2	9.4#



#26
 Hexane
 Concen: 0.044 ppbv
 RT: 2.842 min Scan# 851
 Delta R.T. 0.019 min
 Lab File: VL042248.D
 Acq: 08 Apr 2025 00:12

Tgt Ion:	57	Resp:	1191
Ion	Ratio	Lower	Upper
57	100		
41	219.1	76.6	114.8#
43	237.4	207.8	311.8
56	87.3	43.6	65.4#

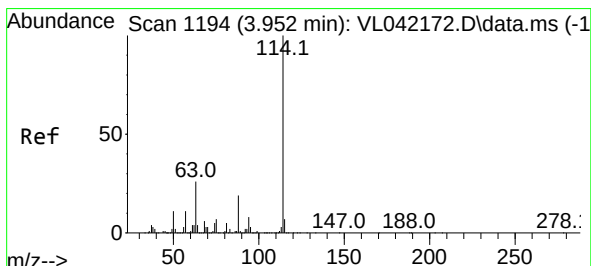
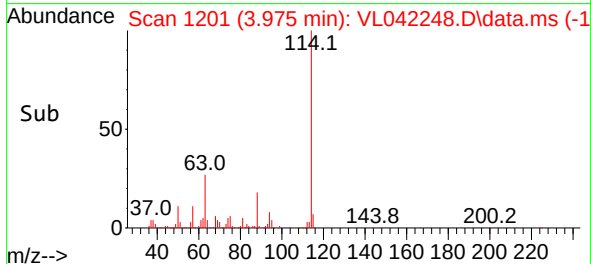
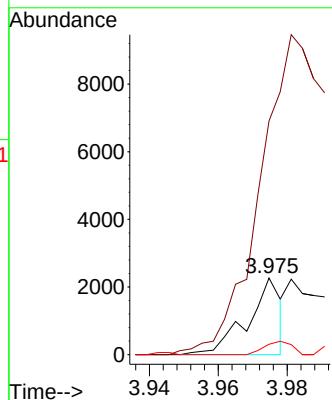
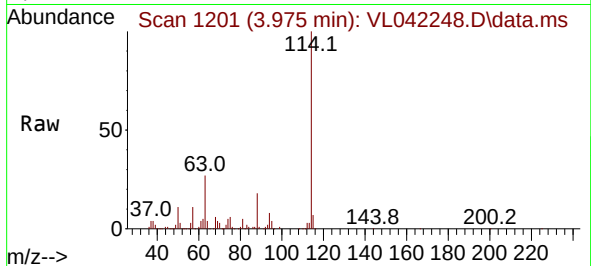




#30
Cyclohexane
Concen: 0.064 ppbv
RT: 3.975 min Scan# 1163
Delta R.T. 0.123 min
Lab File: VL042248.D
Acq: 08 Apr 2025 00:12

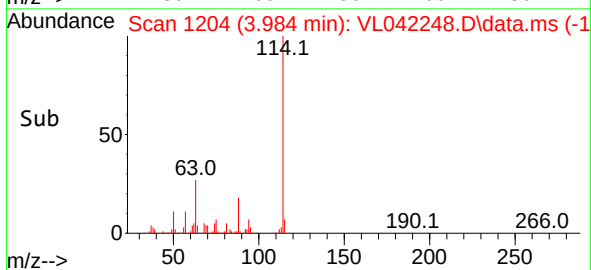
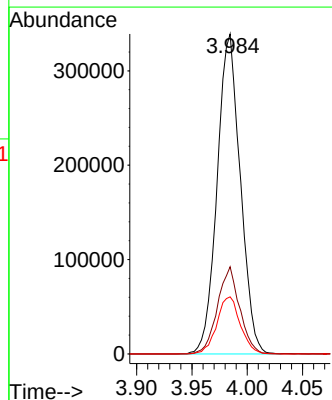
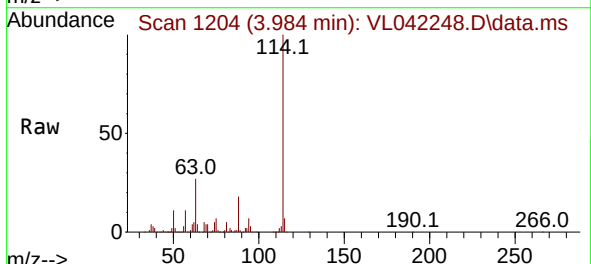
Instrument :
MSVOA_1
ClientSampleId :
SSSG-B10-3-03312025DL

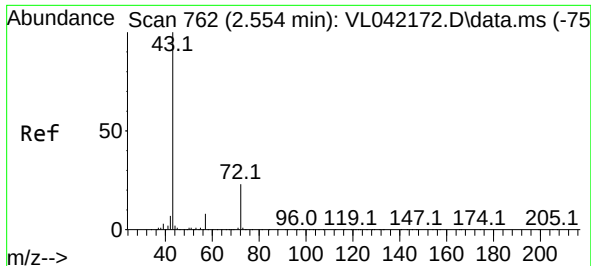
Tgt Ion: 84 Resp: 1517
Ion Ratio Lower Upper
84 100
56 0.0 102.8 154.2#
41 4.4 66.5 99.7#



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.984 min Scan# 1204
Delta R.T. 0.032 min
Lab File: VL042248.D
Acq: 08 Apr 2025 00:12

Tgt Ion: 114 Resp: 493793
Ion Ratio Lower Upper
114 100
63 26.2 20.7 31.1
88 18.0 15.0 22.4

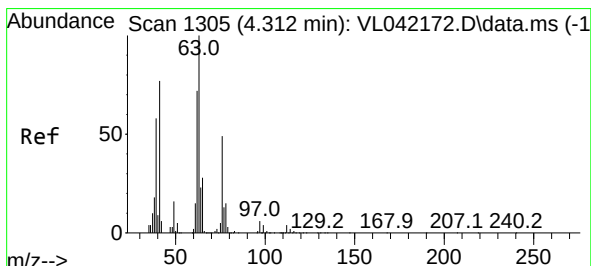
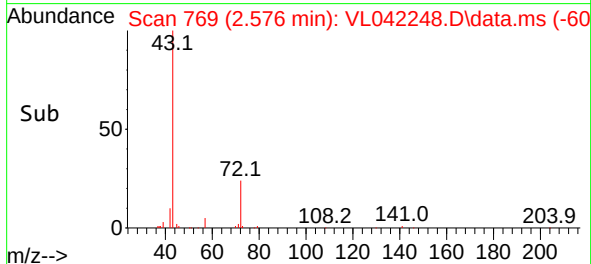
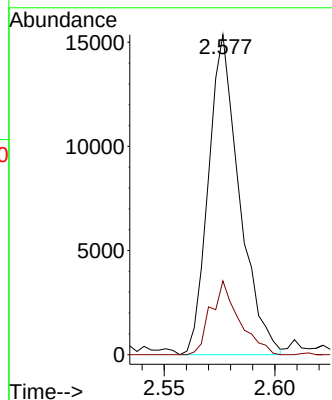
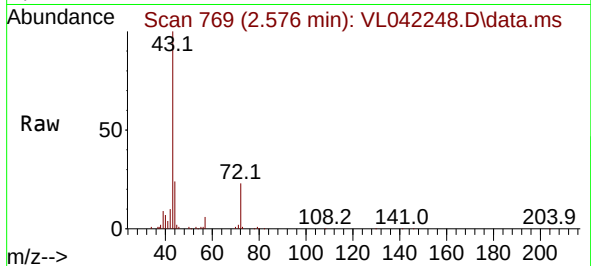




#34
2-Butanone
Concen: 0.418 ppbv
RT: 2.576 min Scan# 70
Delta R.T. 0.022 min
Lab File: VL042248.D
Acq: 08 Apr 2025 00:12

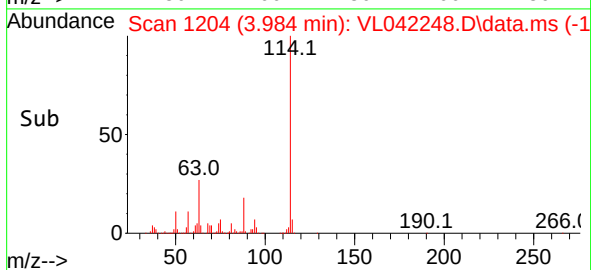
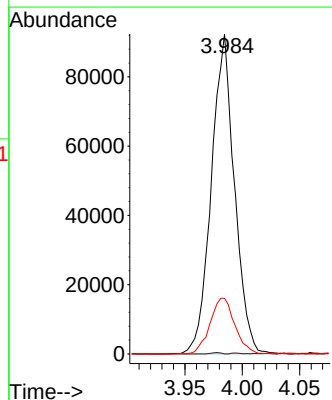
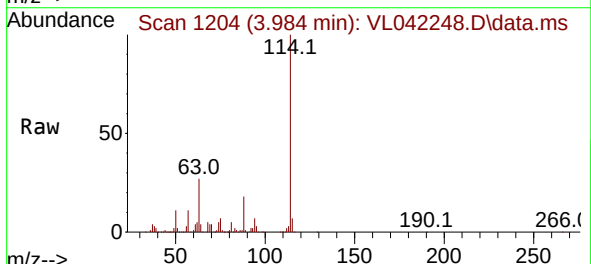
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B10-3-03312025DL

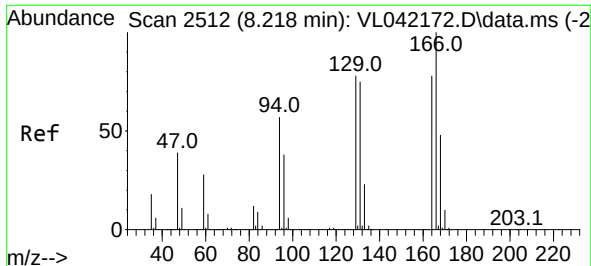
Tgt Ion: 43 Resp: 14984
Ion Ratio Lower Upper
43 100
72 21.3 18.2 27.2



#39
1,2-Dichloropropane
Concen: 7.238 ppbv
RT: 3.984 min Scan# 1204
Delta R.T. -0.327 min
Lab File: VL042248.D
Acq: 08 Apr 2025 00:12

Tgt Ion: 63 Resp: 129039
Ion Ratio Lower Upper
63 100
41 0.2 61.7 92.5#
62 17.3 57.6 86.4#

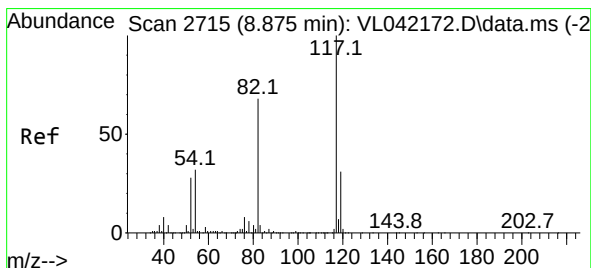
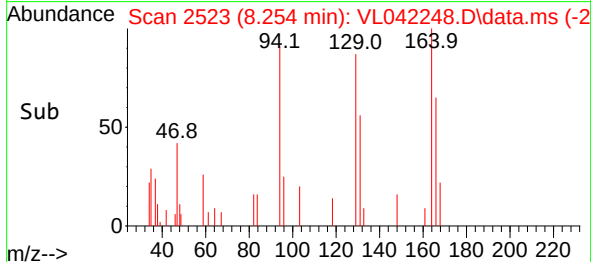
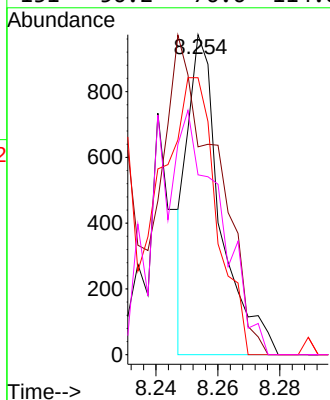
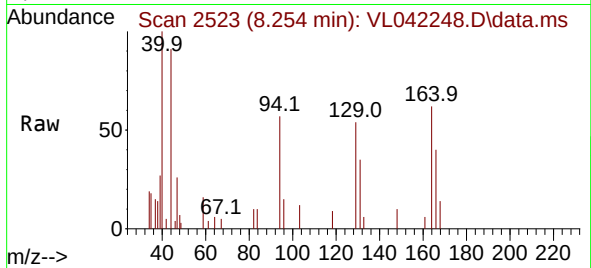




#52
Tetrachloroethene
Concen: 0.037 ppbv
RT: 8.254 min Scan# 21
Delta R.T. 0.035 min
Lab File: VL042248.D
Acq: 08 Apr 2025 00:12

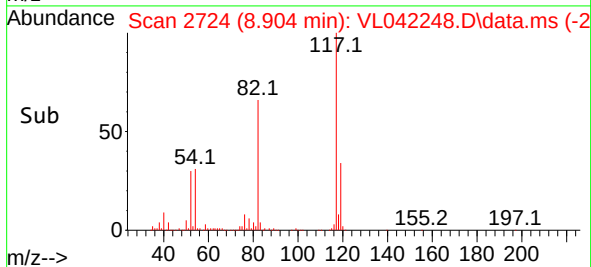
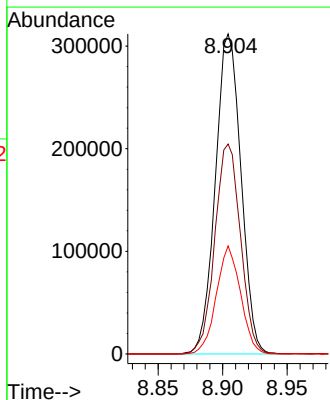
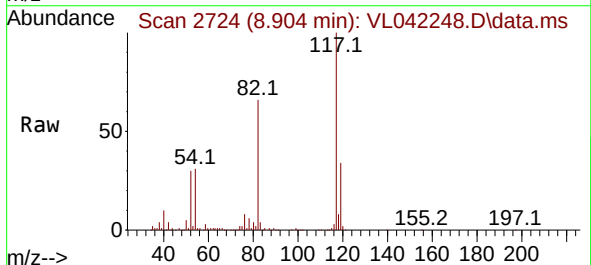
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B10-3-03312025DL

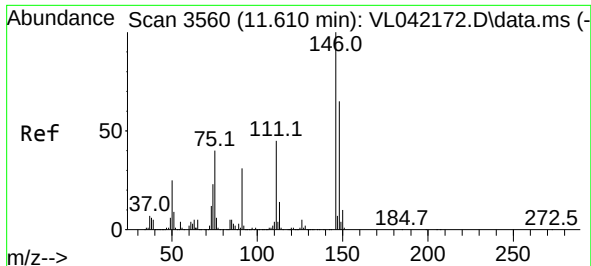
Tgt Ion:164 Resp: 722
Ion Ratio Lower Upper
164 100
166 65.0 102.5 153.7#
129 86.5 79.8 119.8
131 56.2 76.6 114.8#



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.904 min Scan# 2724
Delta R.T. 0.029 min
Lab File: VL042248.D
Acq: 08 Apr 2025 00:12

Tgt Ion:117 Resp: 430982
Ion Ratio Lower Upper
117 100
82 65.8 55.8 83.6
119 31.8 25.5 38.3

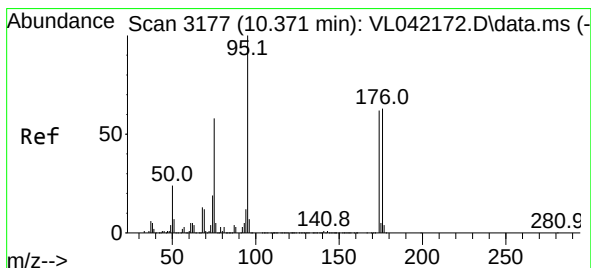
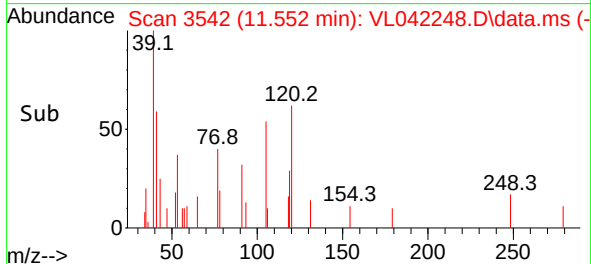
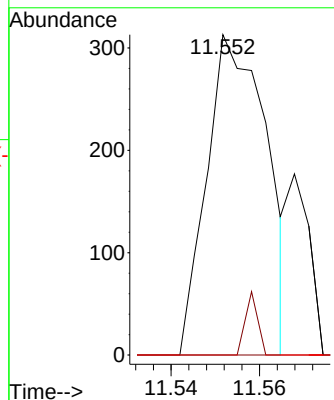
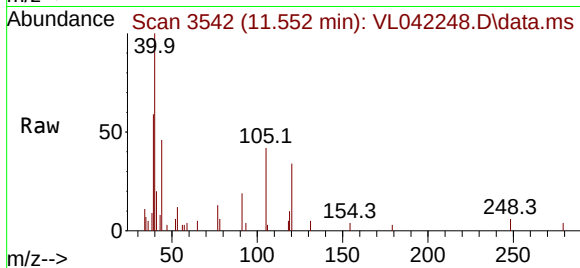




#66
Benzyl Chloride
Concen: 0.033 ppbv
RT: 11.552 min Scan# 3185
Delta R.T. -0.059 min
Lab File: VL042248.D
Acq: 08 Apr 2025 00:12

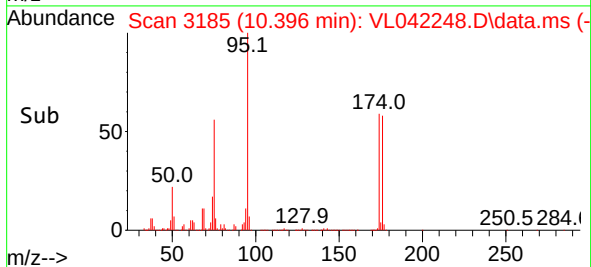
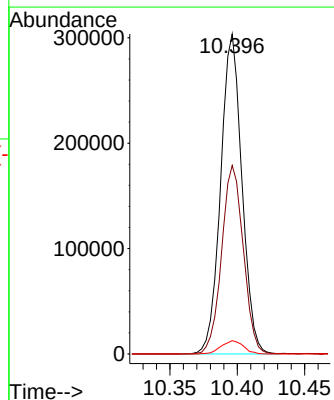
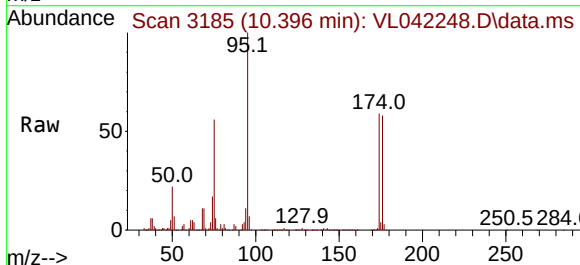
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B10-3-03312025DL

Tgt Ion: 91 Resp: 294
Ion Ratio Lower Upper
91 100
126 0.0 13.8 20.6#
128 0.0 4.5 6.7#



#68
1-Bromo-4-Fluorobenzene
Concen: 9.412 ppbv
RT: 10.396 min Scan# 3185
Delta R.T. 0.026 min
Lab File: VL042248.D
Acq: 08 Apr 2025 00:12

Tgt Ion: 95 Resp: 333104
Ion Ratio Lower Upper
95 100
174 60.2 50.6 76.0
175 4.3 3.8 5.6



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040725\
 Data File : VL042249.D
 Acq On : 08 Apr 2025 00:46
 Operator : SY/MD
 Sample : Q1725-07
 Misc : 400mL/MSVOA_L
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SSSG-B10-1-03312025-SPLIT

Quant Time: Apr 08 01:39:12 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri Mar 28 02:00:52 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.807	49	197758	10.000	ppbv	0.02
33) 1,4-Difluorobenzene	3.988	114	506596	10.000	ppbv	0.04
55) Chlorobenzene-d5	8.908	117	465539	10.000	ppbv	0.03

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.400	95	381596	9.981	ppbv	0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.800%

Target Compounds				Qvalue		
2) Dichlorodifluoromethane	1.505	85	10548	0.361	ppbv	90
3) Chlorodifluoromethane	1.473	51	18165	0.609	ppbv #	70
4) Chloromethane	1.544	50	1562	0.131	ppbv #	79
6) Bromomethane	1.677	94	167	0.031	ppbv #	4
9) Propene	1.632	41	10945	0.801	ppbv	93
10) Heptane	5.024	43	22305	0.613	ppbv #	84
11) Trichlorofluoromethane	1.891	101	6666	0.235	ppbv	97
12) 1,1,2-Trichlorotrifluo...	2.156	101	2000	0.086	ppbv	91
13) Ethanol	1.732	45	236496	182.981	ppbv	83
15) Acetone	1.845	43	779996	28.202	ppbv	96
16) 1,3-Butadiene	1.612	39	38194	2.828	ppbv #	21
17) tert-Butyl alcohol	1.897	59	9515	0.276	ppbv	99
19) Isopropyl Alcohol	1.900	45	271152	17.376	ppbv #	52
20) Methylene Chloride	2.075	84	11817	1.147	ppbv	93
21) Allyl Chloride	2.056	41	10108	0.518	ppbv #	63
23) Vinyl Acetate	2.493	43	30371	2.537	ppbv #	40
24) 1,1-Dichloroethane	2.425	63	995	0.043	ppbv #	94
25) Ethyl Acetate	2.845	43	29553	0.412	ppbv #	94
26) Hexane	2.849	57	27836	1.004	ppbv #	39
27) Carbon Disulfide	2.166	76	1171	0.039	ppbv #	1
28) Methyl tert-Butyl Ether	2.460	73	573	0.033	ppbv #	49
29) Chloroform	2.871	83	95587	2.356	ppbv	94
30) Cyclohexane	3.878	84	1413	0.059	ppbv #	1
34) 2-Butanone	2.577	43	55098	1.500	ppbv	100
35) Carbon Tetrachloride	3.790	117	3266	0.083	ppbv #	81
36) Benzene	3.680	78	24686	0.492	ppbv #	90
38) Trichloroethene	4.583	130	1996	0.095	ppbv #	85
39) 1,2-Dichloropropane	3.991	63	130789	7.151	ppbv #	22
41) Tetrahydrofuran	3.088	42	1169	0.055	ppbv #	59
44) 2,2,4-Trimethylpentane	4.677	57	23872	0.281	ppbv #	47
52) Tetrachloroethene	8.251	164	7399	0.371	ppbv	93
53) Toluene	6.972	91	258006	4.334	ppbv	100
58) Ethyl Benzene	9.383	91	72131	0.872	ppbv	96
59) m/p-Xylene	9.558	91	284370	4.307	ppbv	100
60) o-Xylene	9.992	91	118466	1.790	ppbv	97
61) Styrene	9.898	104	1201	0.037	ppbv #	17
62) Isopropylbenzene	10.558	105	4630	0.047	ppbv #	66
64) n-propylbenzene	11.011	120	5944	0.233	ppbv	96
65) tert-Butylbenzene	11.901	119	5740	0.063	ppbv	88
70) n-Butylbenzene	12.306	91	4533	0.040	ppbv #	1
71) 2-Chlorotoluene	11.008	91	26595	0.346	ppbv #	46
72) 4-Ethyltoluene	11.147	105	35916	0.436	ppbv #	55
73) 1,3,5-Trimethylbenzene	11.225	105	31326	0.435	ppbv	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040725\
Data File : VL042249.D
Acq On : 08 Apr 2025 00:46
Operator : SY/MD
Sample : Q1725-07
Misc : 400mL/MSVOA_L
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
SSSG-B10-1-03312025-SPLIT

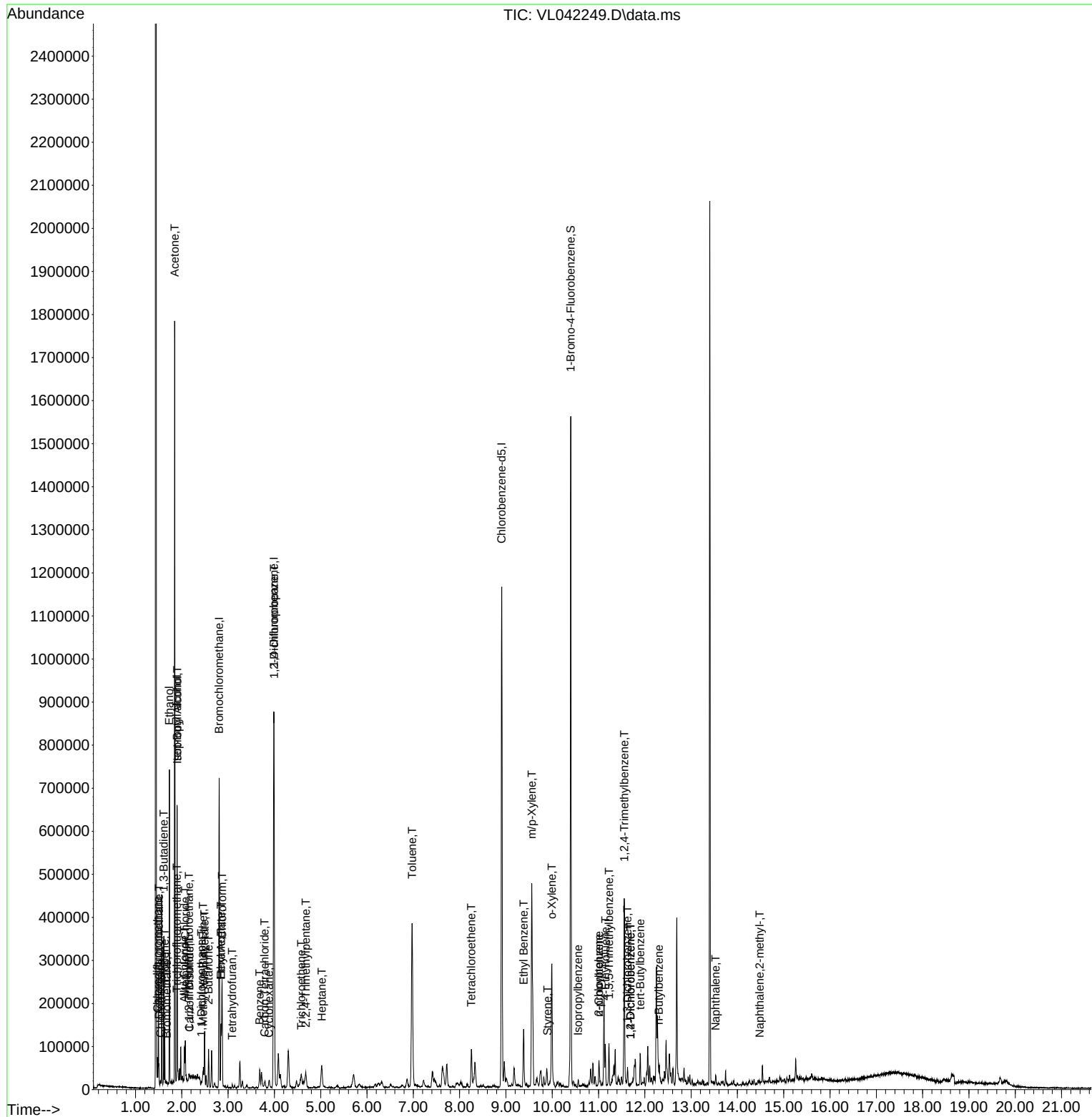
Quant Time: Apr 08 01:39:12 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
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QLast Update : Fri Mar 28 02:00:52 2025
Response via : Initial Calibration

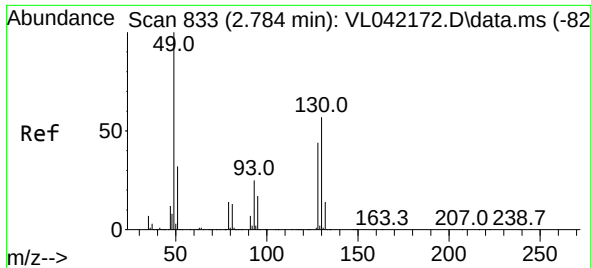
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
74) 1,2,4-Trimethylbenzene	11.558	105	144819	1.746	ppbv #	65
75) 1,3-Dichlorobenzene	11.626	146	7305	0.161	ppbv	93
76) 1,4-Dichlorobenzene	11.688	146	1439	0.032	ppbv	93
77) 1,2-Dichlorobenzene	11.688	146	1439	0.032	ppbv	98
79) Naphthalene	13.530	128	9741	0.107	ppbv #	96
80) Naphthalene,2-methyl-	14.481	142	2064	0.046	ppbv #	82

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

Instrument :
MSVOA_L
ClientSampleId :
SSSG-B10-1-03312025-SPLIT

Instrument :
MSVOA_L
ClientSampleId :
SSSG-B10-1-03312025-SPLIT

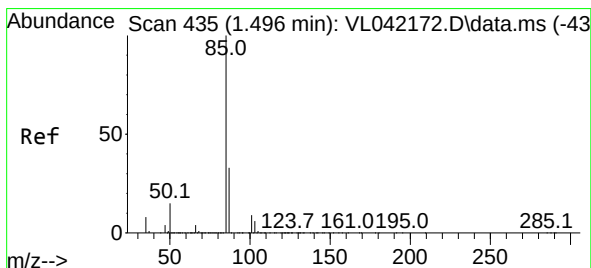
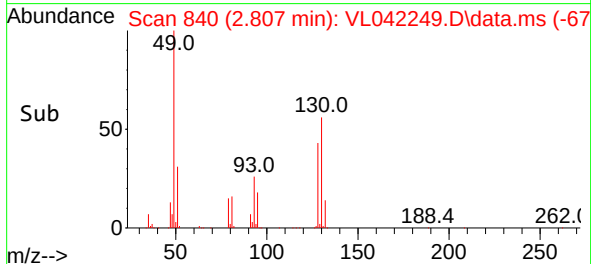
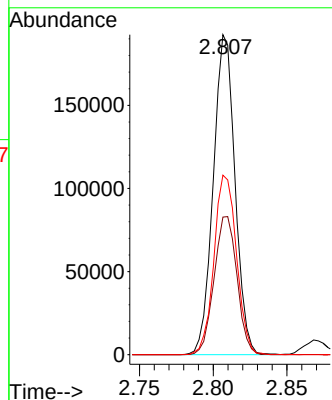
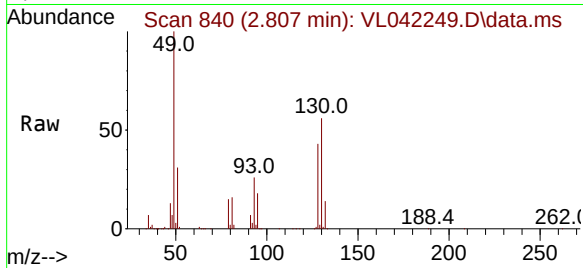




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 2.807 min Scan# 84
 Delta R.T. 0.023 min
 Lab File: VL042249.D
 Acq: 08 Apr 2025 00:46

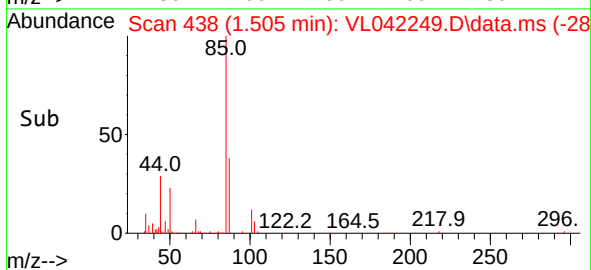
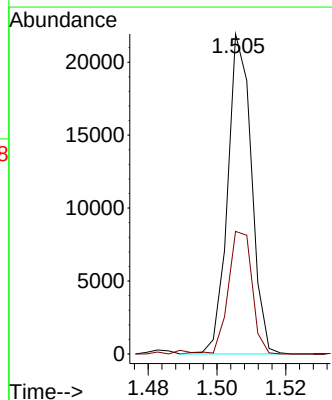
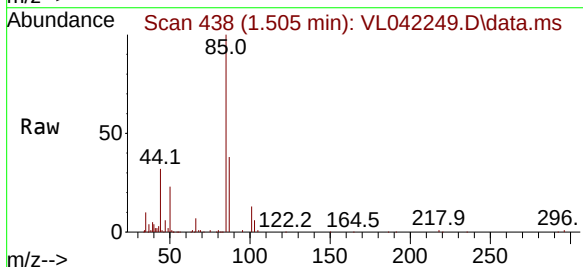
Instrument :
 MSVOA_L
 ClientSampleId :
 SSSG-B10-1-03312025-SPLIT

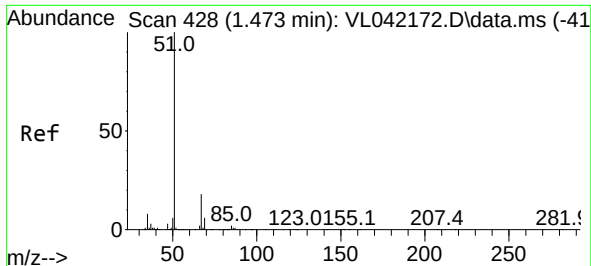
Tgt Ion: 49 Resp: 197758
 Ion Ratio Lower Upper
 49 100
 128 45.4 22.9 68.5
 130 58.1 28.8 86.4



#2
 Dichlorodifluoromethane
 Concen: 0.361 ppbv
 RT: 1.505 min Scan# 438
 Delta R.T. 0.010 min
 Lab File: VL042249.D
 Acq: 08 Apr 2025 00:46

Tgt Ion: 85 Resp: 10548
 Ion Ratio Lower Upper
 85 100
 87 38.3 26.1 39.1

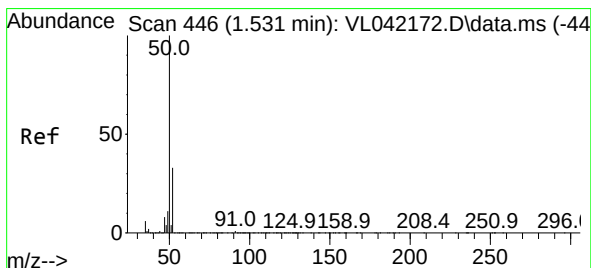
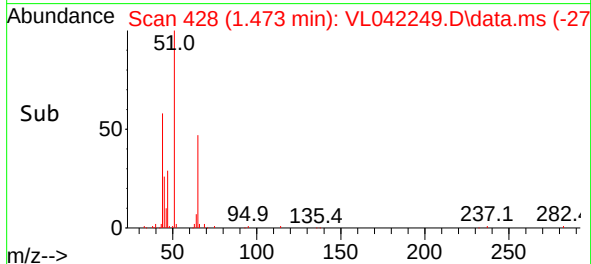
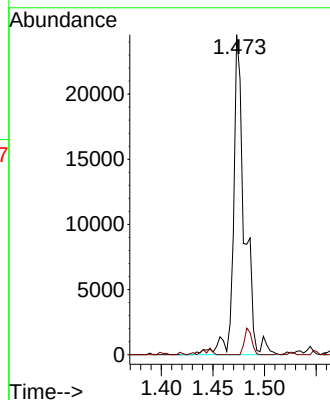
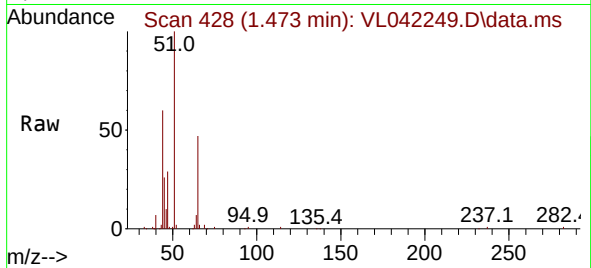




#3
Chlorodifluoromethane
Concen: 0.609 ppbv
RT: 1.473 min Scan# 41
Delta R.T. -0.000 min
Lab File: VL042249.D
Acq: 08 Apr 2025 00:46

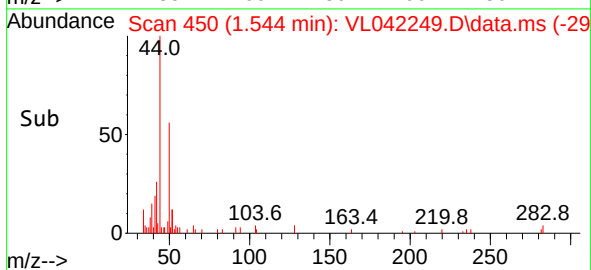
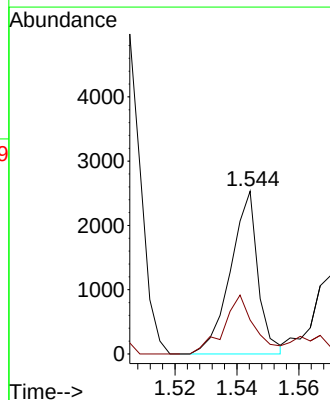
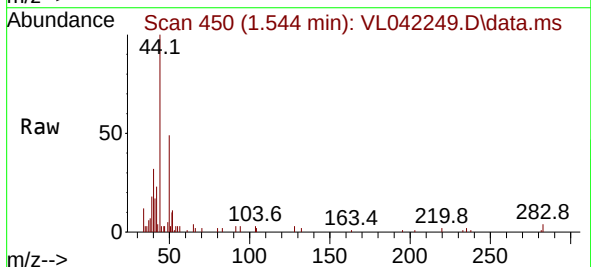
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B10-1-03312025-SPLIT

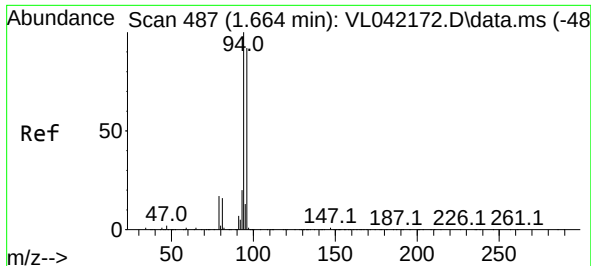
Tgt Ion: 51 Resp: 18165
Ion Ratio Lower Upper
51 100
67 5.5 15.0 22.6#



#4
Chloromethane
Concen: 0.131 ppbv
RT: 1.544 min Scan# 450
Delta R.T. 0.013 min
Lab File: VL042249.D
Acq: 08 Apr 2025 00:46

Tgt Ion: 50 Resp: 1562
Ion Ratio Lower Upper
50 100
52 20.8 26.1 39.1#

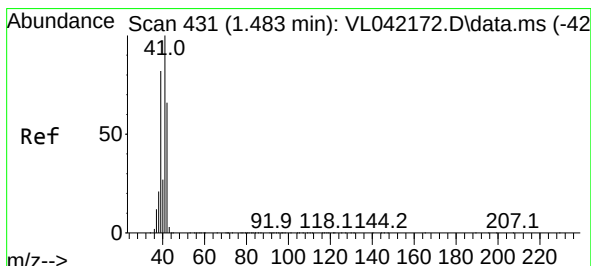
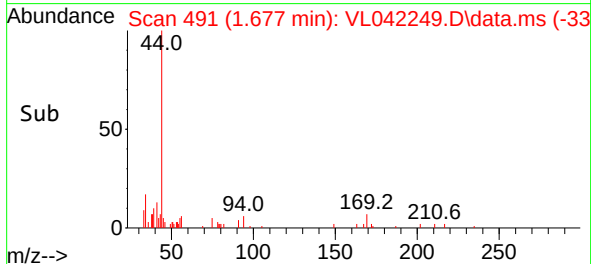
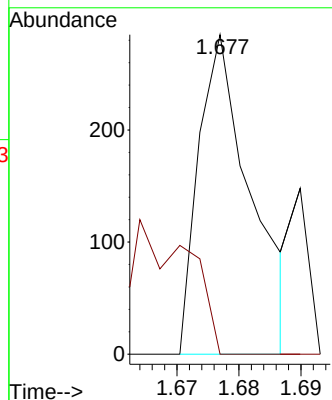
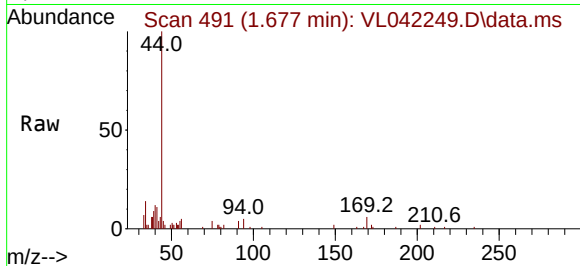




#6
Bromomethane
Concen: 0.031 ppbv
RT: 1.677 min Scan# 491
Delta R.T. 0.013 min
Lab File: VL042249.D
Acq: 08 Apr 2025 00:46

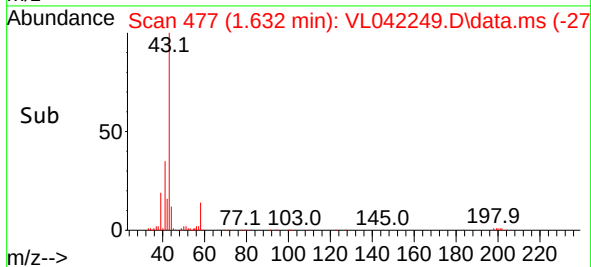
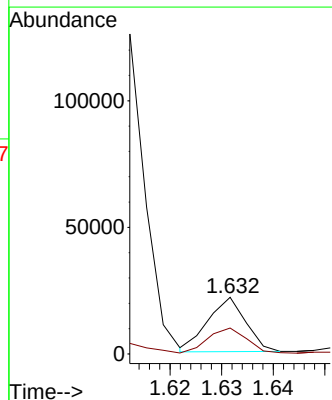
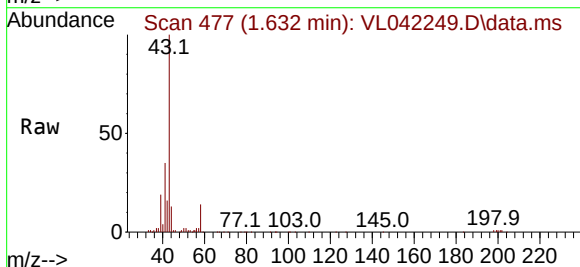
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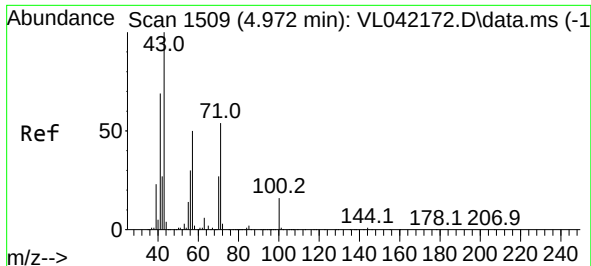
Tgt Ion: 94 Resp: 167
Ion Ratio Lower Upper
94 100
96 0.0 73.1 109.7#



#9
Propene
Concen: 0.801 ppbv
RT: 1.632 min Scan# 477
Delta R.T. 0.149 min
Lab File: VL042249.D
Acq: 08 Apr 2025 00:46

Tgt Ion: 41 Resp: 10945
Ion Ratio Lower Upper
41 100
42 74.6 55.4 83.2

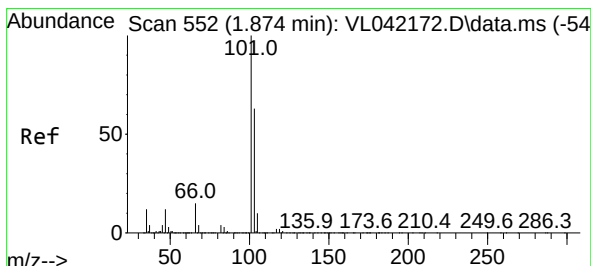
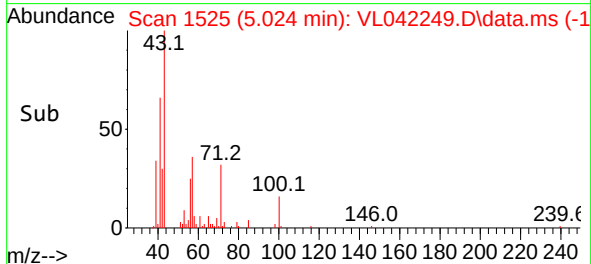
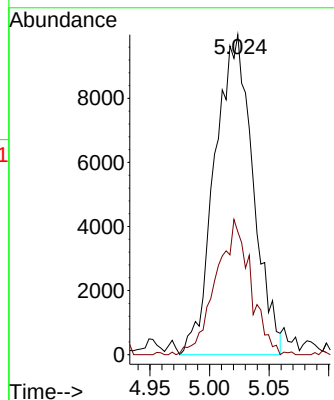
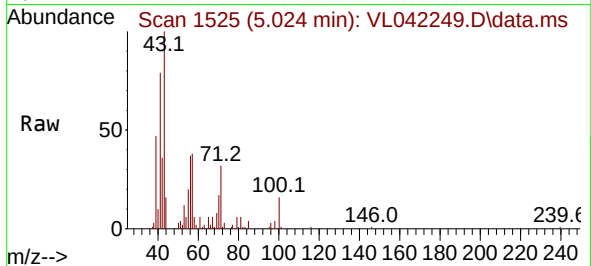




#10
Heptane
Concen: 0.613 ppbv
RT: 5.024 min Scan# 11
Delta R.T. 0.052 min
Lab File: VL042249.D
Acq: 08 Apr 2025 00:46

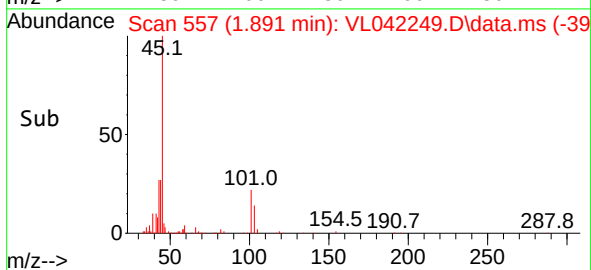
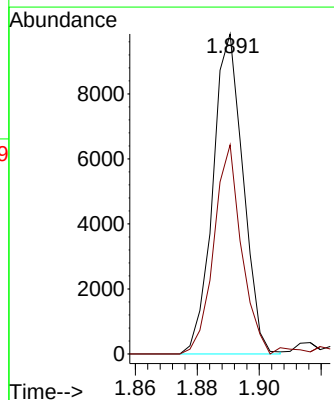
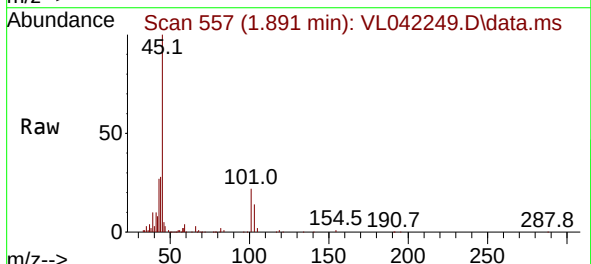
Instrument :
MSVOA_1
ClientSampleId :
SSSG-B10-1-03312025-SPLIT

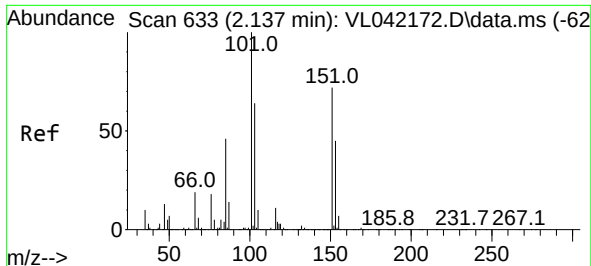
Tgt Ion: 43 Resp: 22305
Ion Ratio Lower Upper
43 100
57 38.5 39.4 59.2#



#11
Trichlorofluoromethane
Concen: 0.235 ppbv
RT: 1.891 min Scan# 557
Delta R.T. 0.016 min
Lab File: VL042249.D
Acq: 08 Apr 2025 00:46

Tgt Ion: 101 Resp: 6666
Ion Ratio Lower Upper
101 100
103 65.3 50.2 75.2

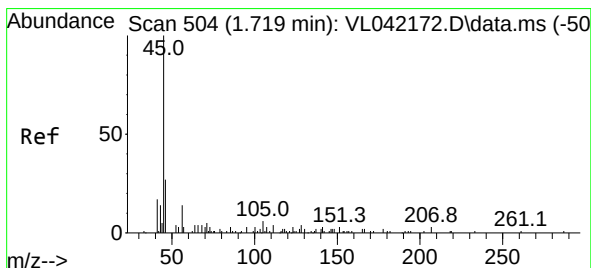
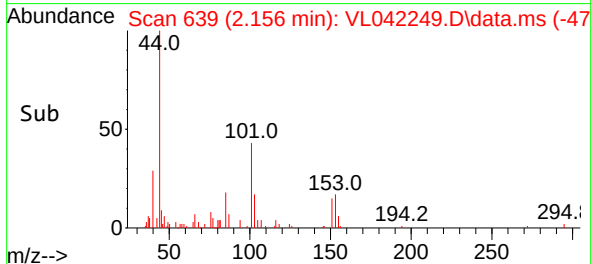
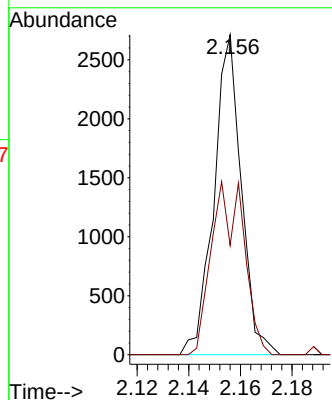
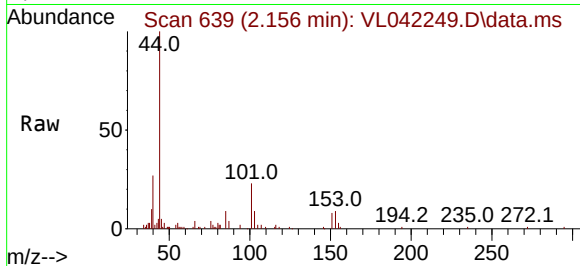




#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.086 ppbv
RT: 2.156 min Scan# 611
Delta R.T. 0.019 min
Lab File: VL042249.D
Acq: 08 Apr 2025 00:46

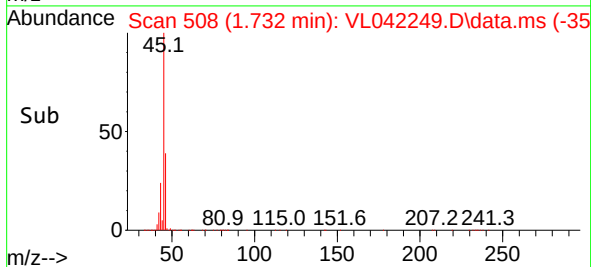
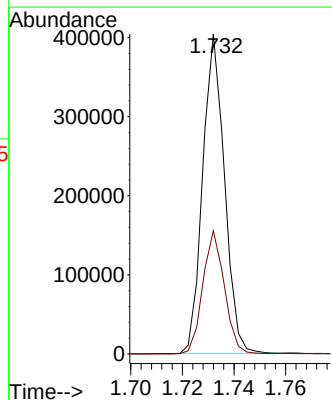
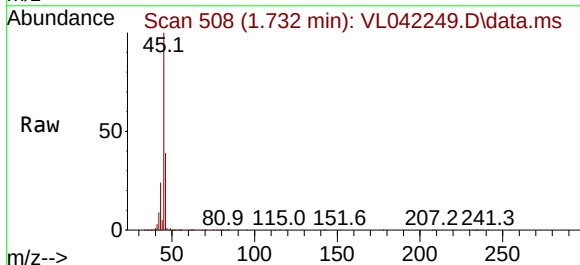
Instrument :
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ClientSampleId :
SSSG-B10-1-03312025-SPLIT

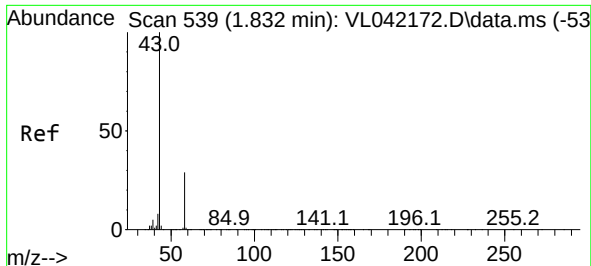
Tgt Ion:101 Resp: 2000
Ion Ratio Lower Upper
101 100
151 63.7 57.1 85.7



#13
Ethanol
Concen: 182.981 ppbv
RT: 1.732 min Scan# 508
Delta R.T. 0.013 min
Lab File: VL042249.D
Acq: 08 Apr 2025 00:46

Tgt Ion: 45 Resp: 236496
Ion Ratio Lower Upper
45 100
46 38.7 20.2 80.8





#15

Acetone

Concen: 28.202 ppbv

RT: 1.845 min Scan# 54

Delta R.T. 0.013 min

Lab File: VL042249.D

Acq: 08 Apr 2025 00:46

Instrument :

MSVOA_L

ClientSampleId :

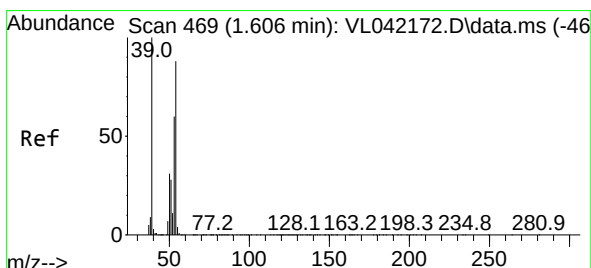
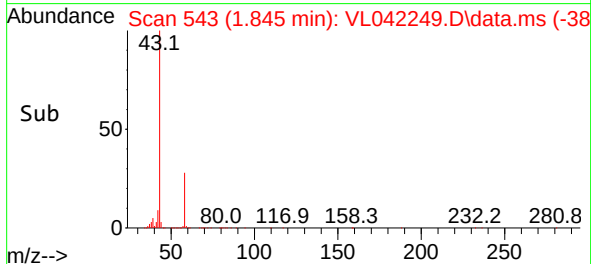
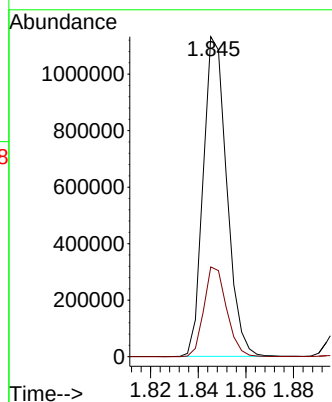
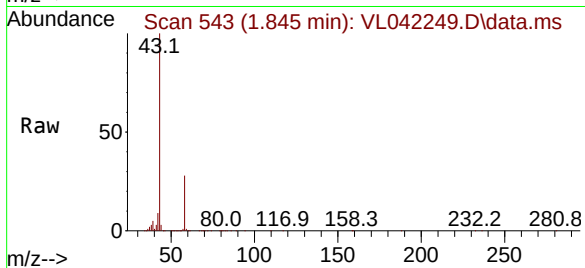
SSSG-B10-1-03312025-SPLIT

Tgt Ion: 43 Resp: 779996

Ion Ratio Lower Upper

43 100

58 27.1 23.2 34.8



#16

1,3-Butadiene

Concen: 2.828 ppbv

RT: 1.612 min Scan# 471

Delta R.T. 0.006 min

Lab File: VL042249.D

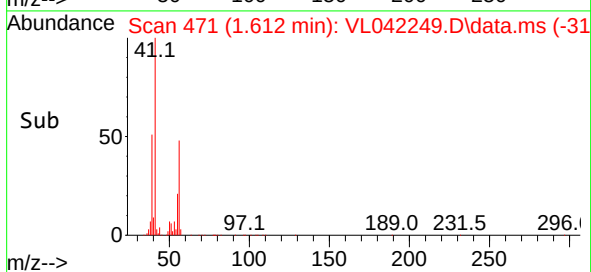
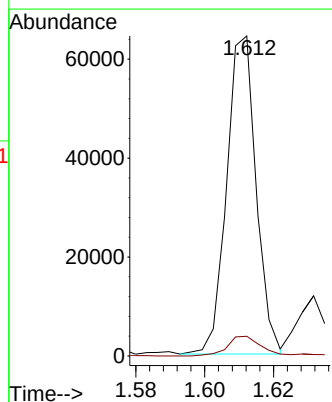
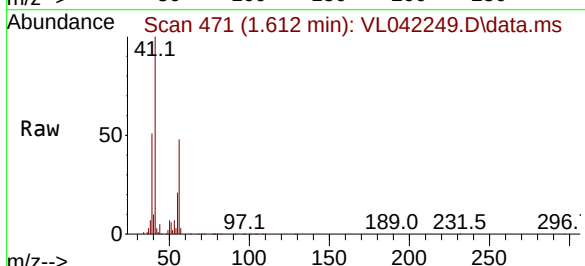
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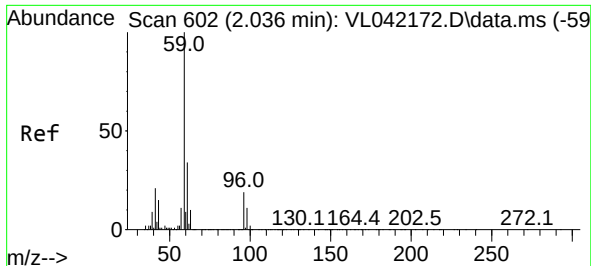
Tgt Ion: 39 Resp: 38194

Ion Ratio Lower Upper

39 100

54 7.9 60.7 91.1#





#17

tert-Butyl alcohol

Concen: 0.276 ppbv

RT: 1.897 min Scan# 51

Delta R.T. -0.139 min

Lab File: VL042249.D

Acq: 08 Apr 2025 00:46

Instrument :

MSVOA_L

ClientSampleId :

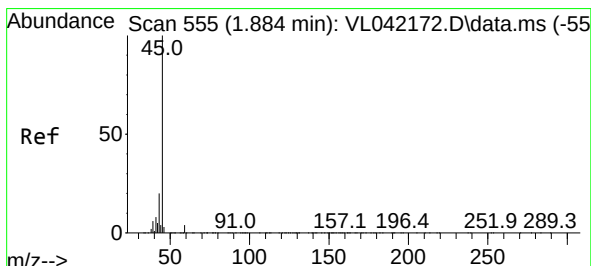
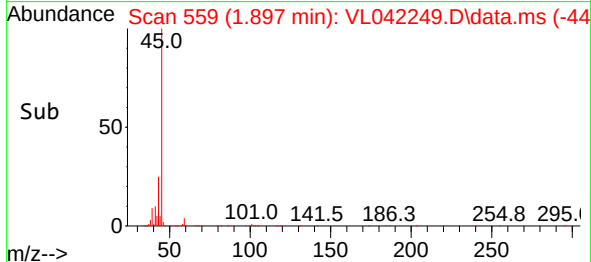
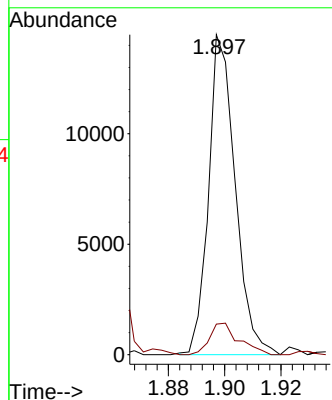
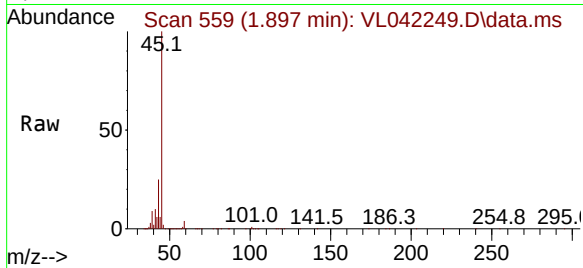
SSSG-B10-1-03312025-SPLIT

Tgt Ion: 59 Resp: 9515

Ion Ratio Lower Upper

59 100

57 11.5 8.9 13.3



#19

Isopropyl Alcohol

Concen: 17.376 ppbv

RT: 1.900 min Scan# 560

Delta R.T. 0.016 min

Lab File: VL042249.D

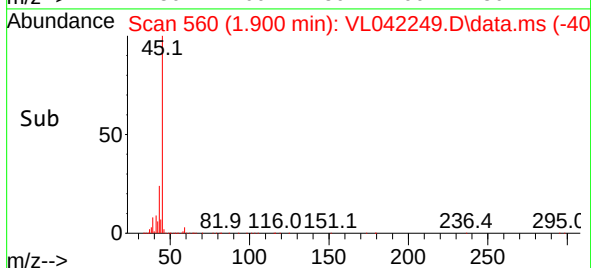
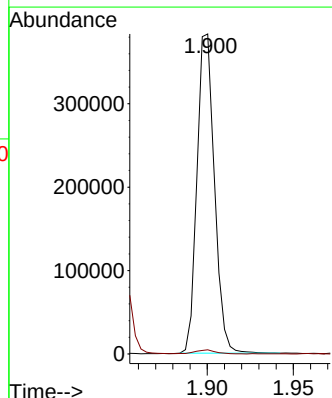
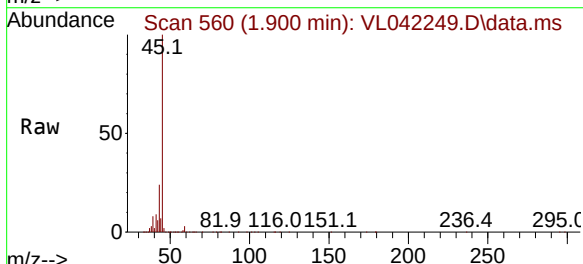
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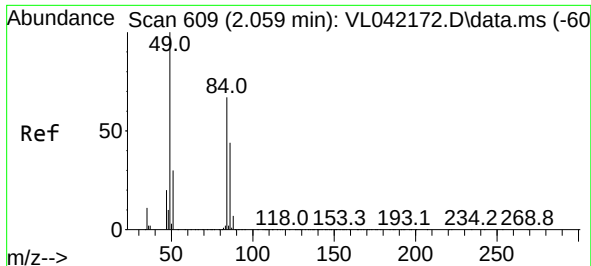
Tgt Ion: 45 Resp: 271152

Ion Ratio Lower Upper

45 100

58 78.1 36.9 55.3#

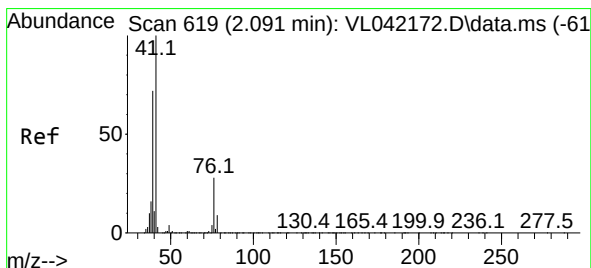
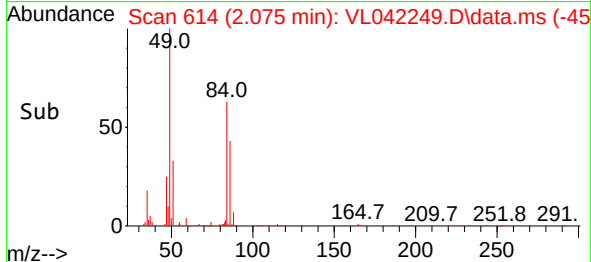
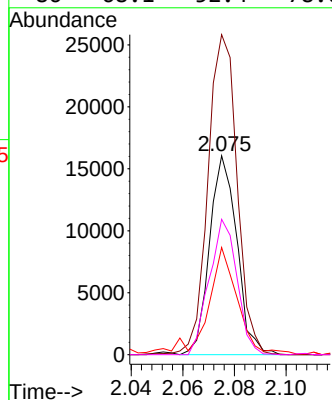
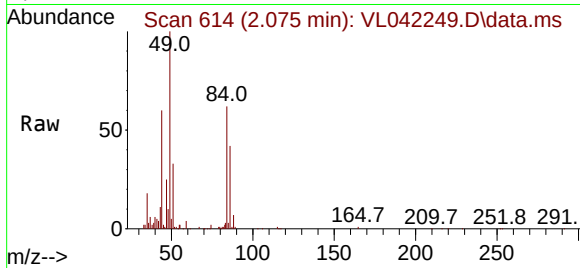




#20
Methylene Chloride
Concen: 1.147 ppbv
RT: 2.075 min Scan# 614
Delta R.T. 0.016 min
Lab File: VL042249.D
Acq: 08 Apr 2025 00:46

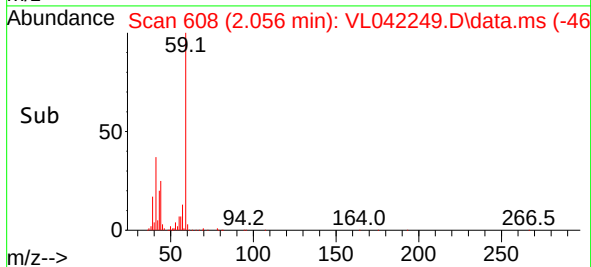
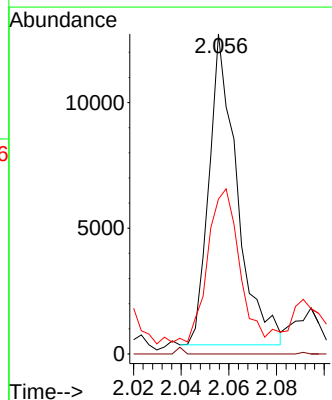
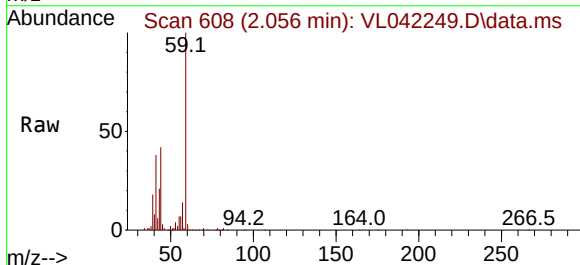
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B10-1-03312025-SPLIT

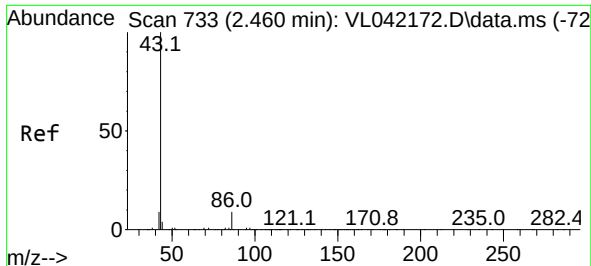
Tgt Ion:	84	Resp:	11817
Ion	Ratio	Lower	Upper
84	100		
49	160.5	120.2	180.4
51	52.1	37.4	56.0
86	68.1	52.4	78.6



#21
Allyl Chloride
Concen: 0.518 ppbv
RT: 2.056 min Scan# 608
Delta R.T. -0.036 min
Lab File: VL042249.D
Acq: 08 Apr 2025 00:46

Tgt Ion:	41	Resp:	10108
Ion	Ratio	Lower	Upper
41	100		
76	0.0	24.1	36.1#
39	50.7	61.1	91.7#

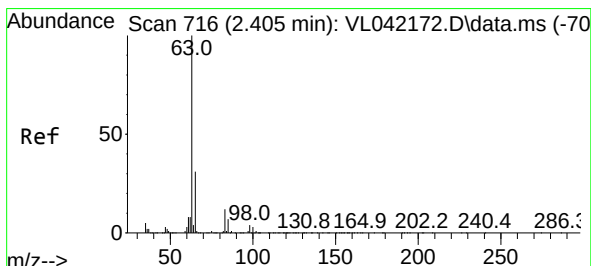
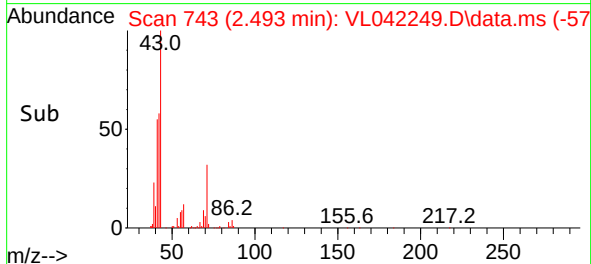
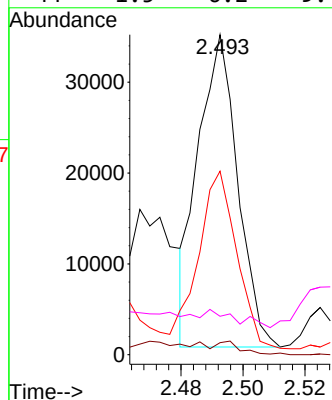
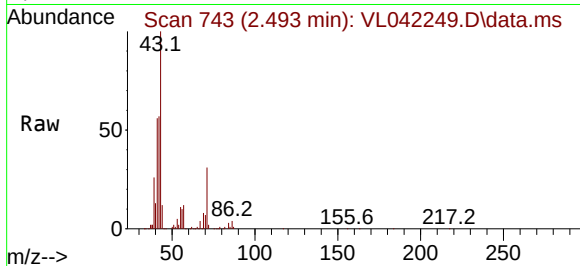




#23
 Vinyl Acetate
 Concen: 2.537 ppbv
 RT: 2.493 min Scan# 741
 Delta R.T. 0.032 min
 Lab File: VL042249.D
 Acq: 08 Apr 2025 00:46

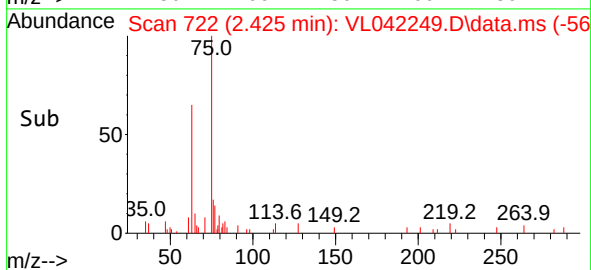
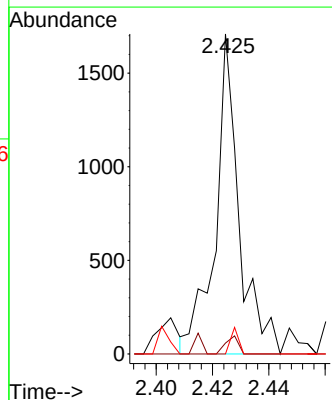
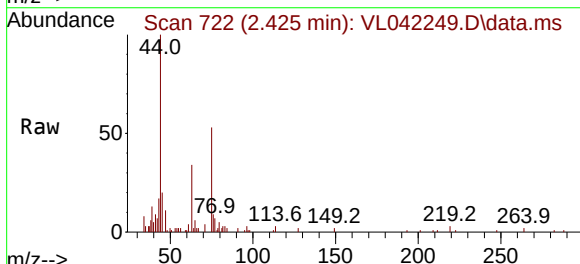
Instrument :
 MSVOA_L
 ClientSampleId :
 SSSG-B10-1-03312025-SPLIT

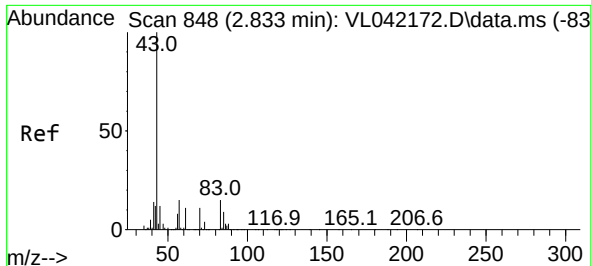
Tgt Ion:	43	Resp:	30371
Ion	Ratio	Lower	Upper
43	100		
86	3.3	5.5	8.3#
42	56.7	8.6	13.0#
44	1.5	6.2	9.4#



#24
 1,1-Dichloroethane
 Concen: 0.043 ppbv
 RT: 2.425 min Scan# 722
 Delta R.T. 0.019 min
 Lab File: VL042249.D
 Acq: 08 Apr 2025 00:46

Tgt Ion:	63	Resp:	995
Ion	Ratio	Lower	Upper
63	100		
98	3.4	2.3	6.8
100	0.0	1.6	4.7#

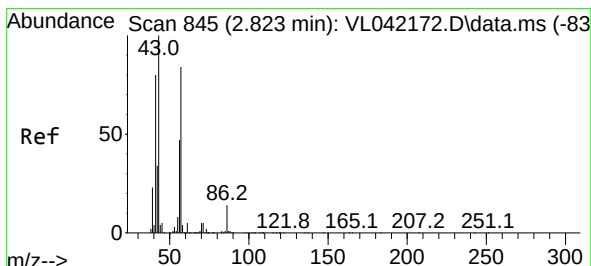
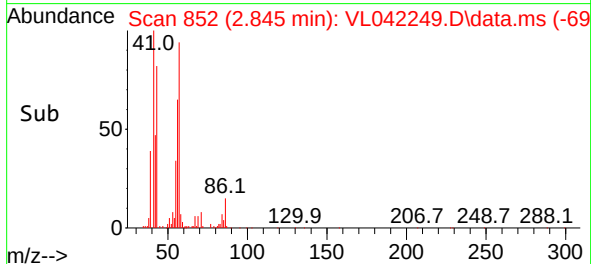
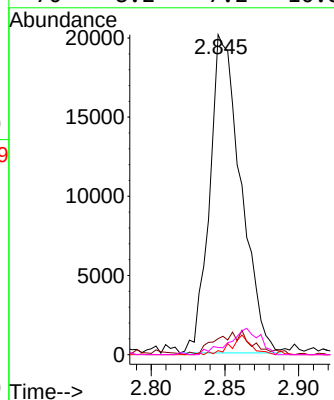
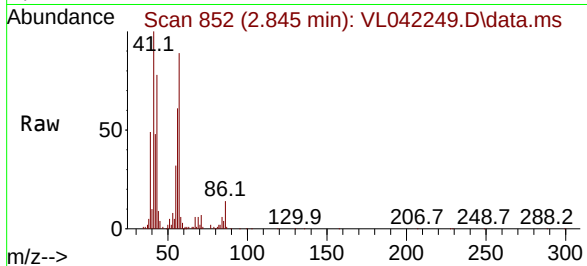




#25
Ethyl Acetate
Concen: 0.412 ppbv
RT: 2.845 min Scan# 81
Delta R.T. 0.013 min
Lab File: VL042249.D
Acq: 08 Apr 2025 00:46

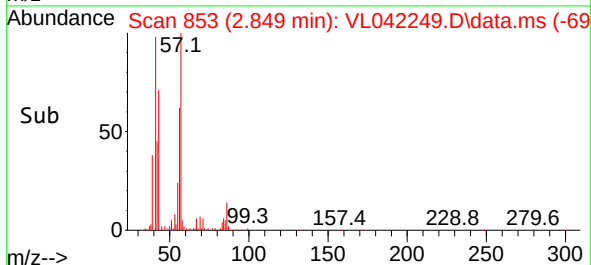
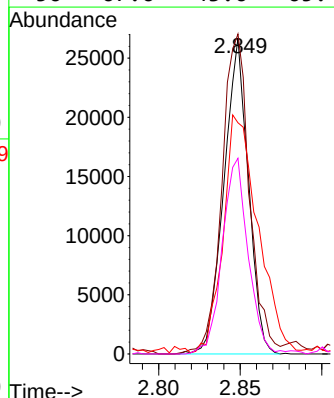
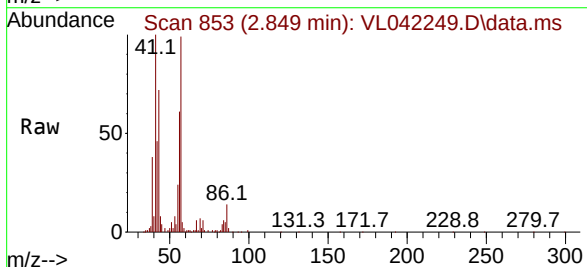
Instrument :
MSVOA_1
ClientSampleId :
SSSG-B10-1-03312025-SPLIT

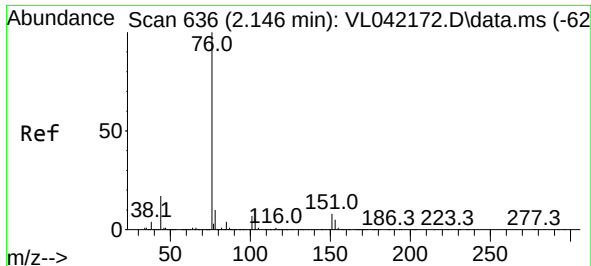
Tgt Ion: 43	Resp: 29553
Ion Ratio	Lower Upper
43 100	
45 9.5	8.2 12.2
61 4.3	7.3 10.9#
70 8.2	7.2 10.8



#26
Hexane
Concen: 1.004 ppbv
RT: 2.849 min Scan# 853
Delta R.T. 0.026 min
Lab File: VL042249.D
Acq: 08 Apr 2025 00:46

Tgt Ion: 57	Resp: 27836
Ion Ratio	Lower Upper
57 100	
41 120.4	76.6 114.8#
43 110.3	207.8 311.8#
56 67.6	43.6 65.4#

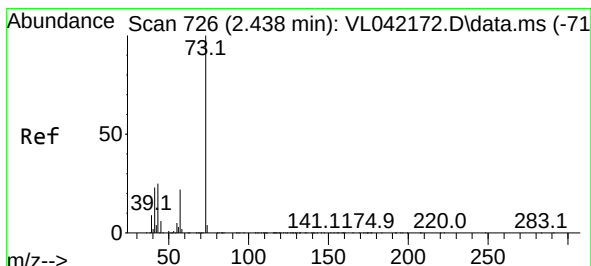
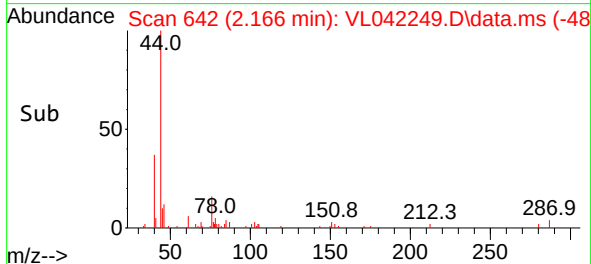
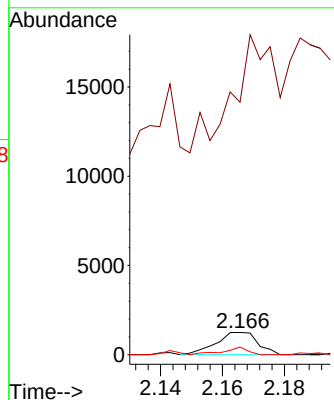
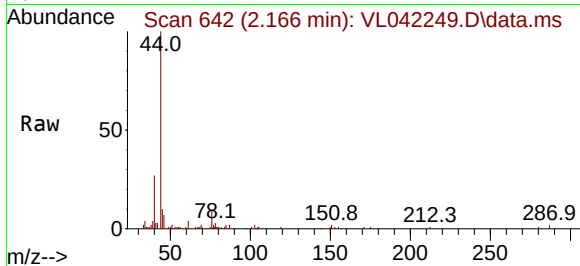




#27
Carbon Disulfide
Concen: 0.039 ppbv
RT: 2.166 min Scan# 642
Delta R.T. 0.019 min
Lab File: VL042249.D
Acq: 08 Apr 2025 00:46

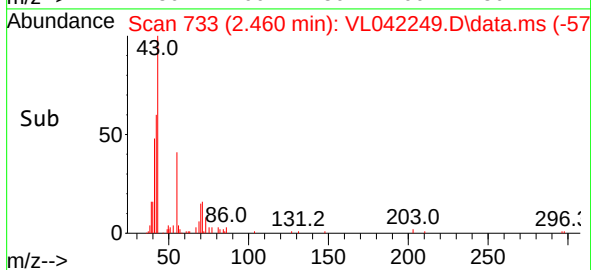
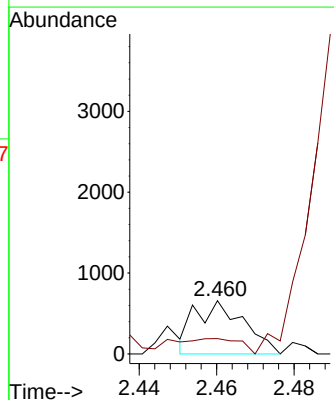
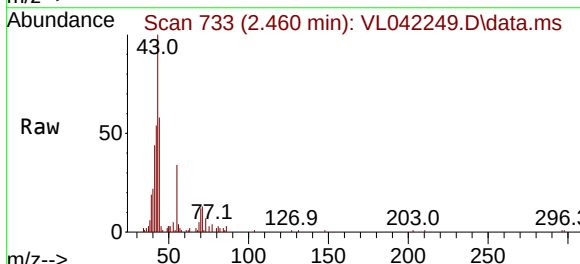
Instrument : MSVOA_1
ClientSampleId : SSSG-B10-1-03312025-SPLIT

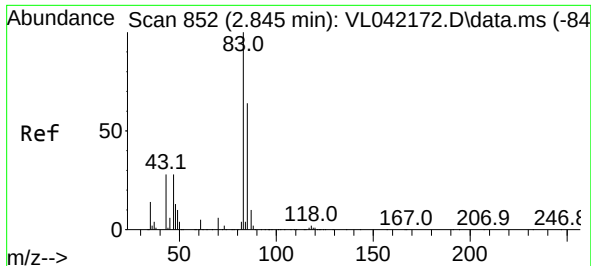
Tgt Ion: 76 Resp: 1171
Ion Ratio Lower Upper
76 100
44 4266.3 14.7 22.1#
78 30.2 9.3 13.9#



#28
Methyl tert-Butyl Ether
Concen: 0.033 ppbv
RT: 2.460 min Scan# 733
Delta R.T. 0.023 min
Lab File: VL042249.D
Acq: 08 Apr 2025 00:46

Tgt Ion: 73 Resp: 573
Ion Ratio Lower Upper
73 100
57 0.0 20.5 30.7#

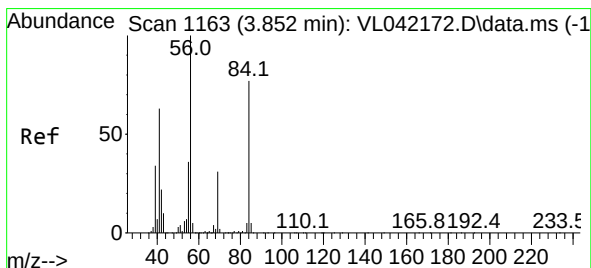
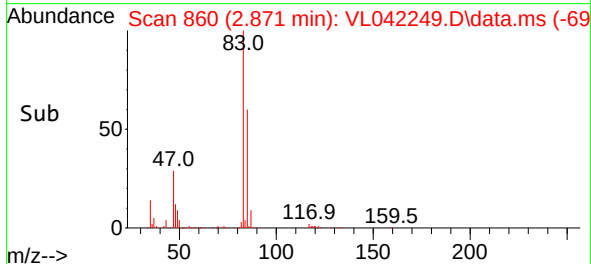
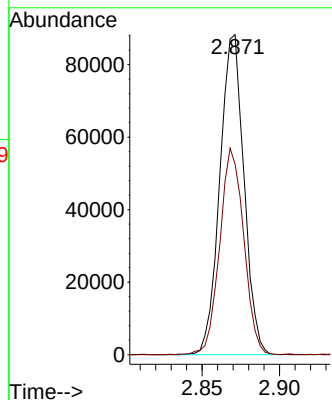
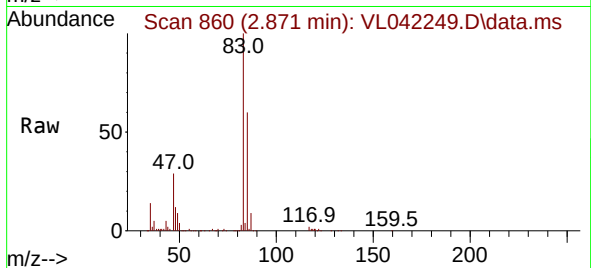




#29
Chloroform
Concen: 2.356 ppbv
RT: 2.871 min Scan# 80
Delta R.T. 0.026 min
Lab File: VL042249.D
Acq: 08 Apr 2025 00:46

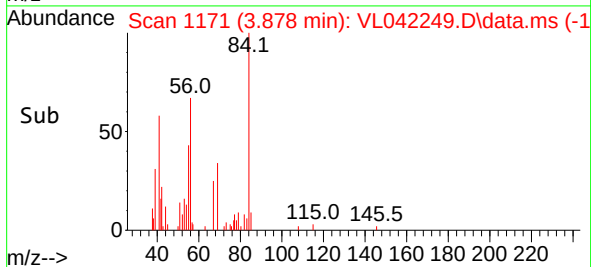
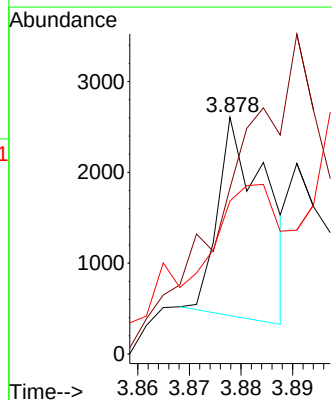
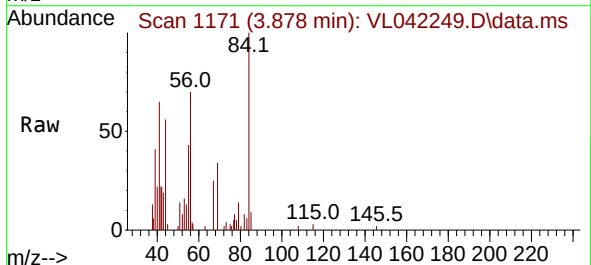
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B10-1-03312025-SPLIT

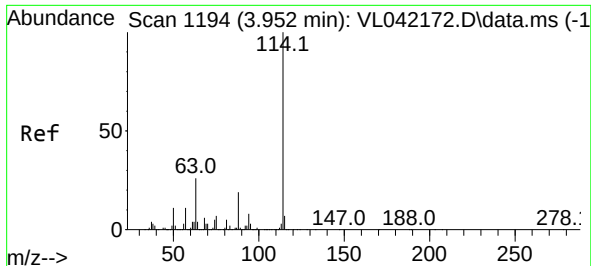
Tgt Ion: 83 Resp: 95587
Ion Ratio Lower Upper
83 100
85 59.5 51.4 77.2



#30
Cyclohexane
Concen: 0.059 ppbv
RT: 3.878 min Scan# 1171
Delta R.T. 0.026 min
Lab File: VL042249.D
Acq: 08 Apr 2025 00:46

Tgt Ion: 84 Resp: 1413
Ion Ratio Lower Upper
84 100
56 0.0 102.8 154.2#
41 0.0 66.5 99.7#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.988 min Scan# 1194

Delta R.T. 0.036 min

Lab File: VL042249.D

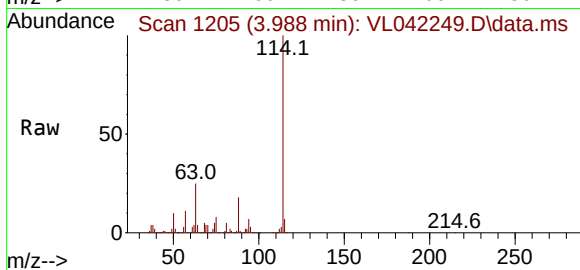
Acq: 08 Apr 2025 00:46

Instrument :

MSVOA_1

ClientSampleId :

SSSG-B10-1-03312025-SPLIT



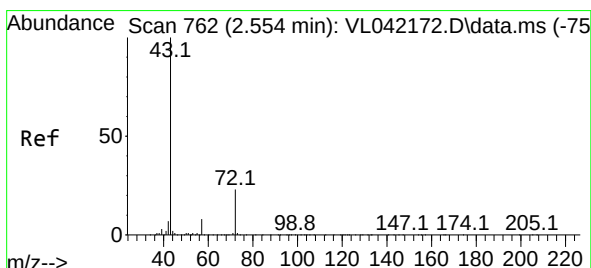
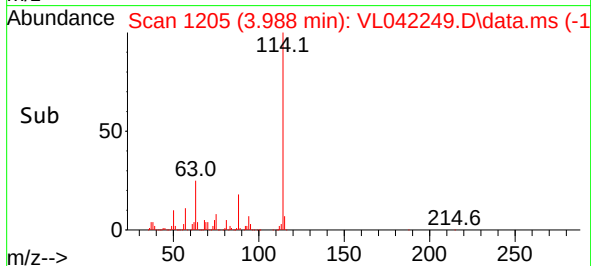
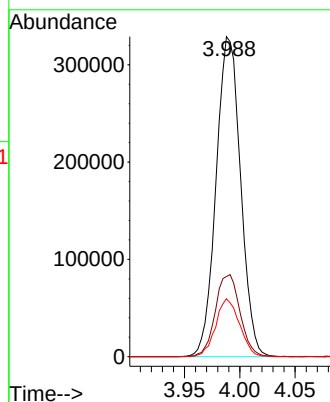
Tgt Ion:114 Resp: 506596

Ion Ratio Lower Upper

114 100

63 26.0 20.7 31.1

88 17.7 15.0 22.4



#34

2-Butanone

Concen: 1.500 ppbv

RT: 2.577 min Scan# 769

Delta R.T. 0.023 min

Lab File: VL042249.D

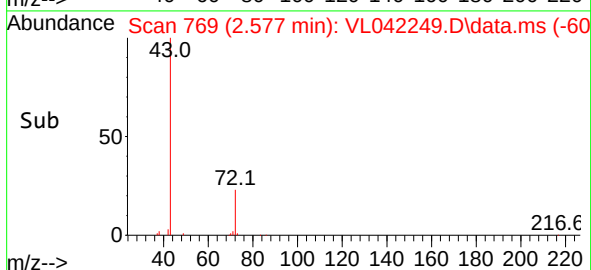
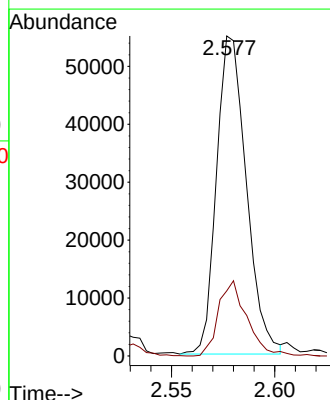
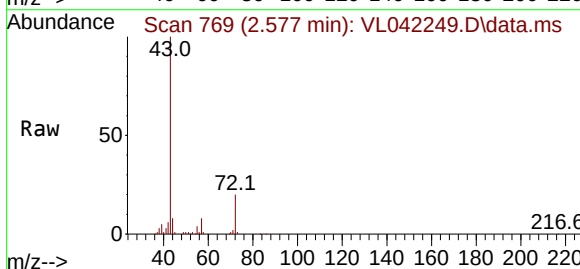
Acq: 08 Apr 2025 00:46

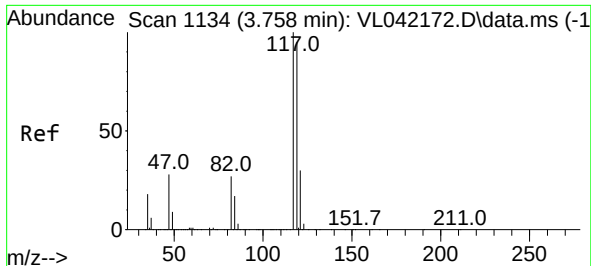
Tgt Ion: 43 Resp: 55098

Ion Ratio Lower Upper

43 100

72 22.7 18.2 27.2

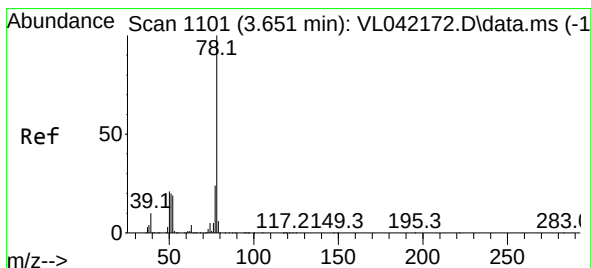
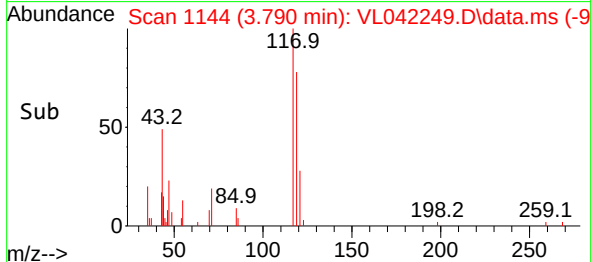
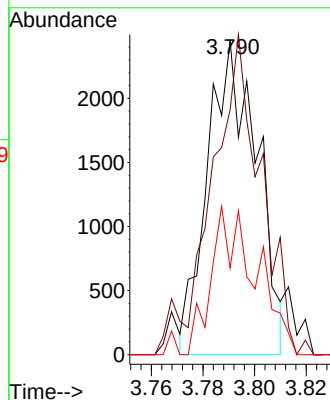
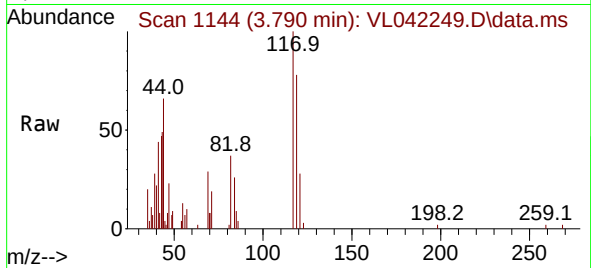




#35
Carbon Tetrachloride
Concen: 0.083 ppbv
RT: 3.790 min Scan# 1110
Delta R.T. 0.032 min
Lab File: VL042249.D
Acq: 08 Apr 2025 00:46

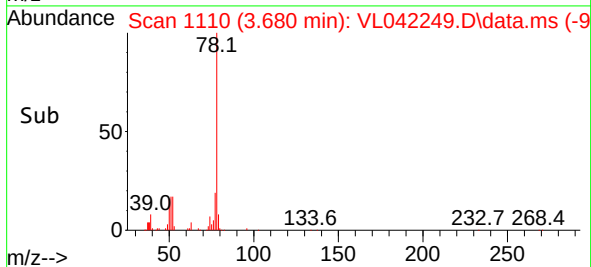
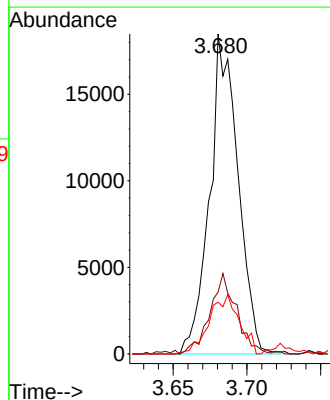
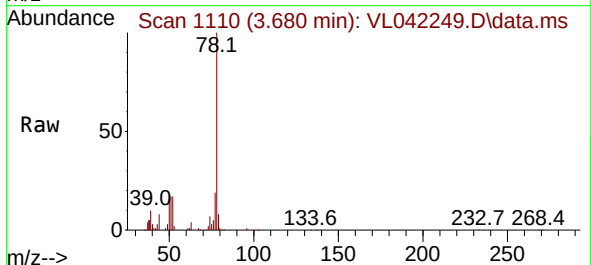
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B10-1-03312025-SPLIT

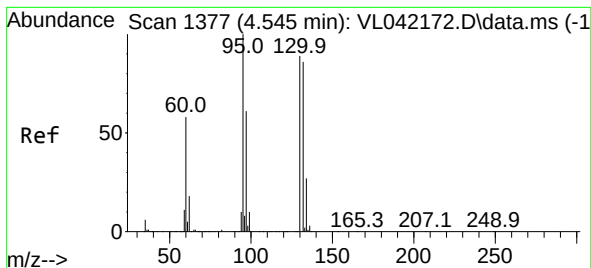
Tgt Ion:117 Resp: 3266
Ion Ratio Lower Upper
117 100
119 71.9 76.2 114.2#
121 29.5 24.2 36.4



#36
Benzene
Concen: 0.492 ppbv
RT: 3.680 min Scan# 1110
Delta R.T. 0.029 min
Lab File: VL042249.D
Acq: 08 Apr 2025 00:46

Tgt Ion: 78 Resp: 24686
Ion Ratio Lower Upper
78 100
77 19.4 19.1 28.7
50 15.7 16.6 24.8#





#38

Trichloroethene

Concen: 0.095 ppbv

RT: 4.583 min Scan# 11

Delta R.T. 0.039 min

Lab File: VL042249.D

Acq: 08 Apr 2025 00:46

Instrument :

MSVOA_L

ClientSampleId :

SSSG-B10-1-03312025-SPLIT

Tgt Ion:130 Resp: 1996

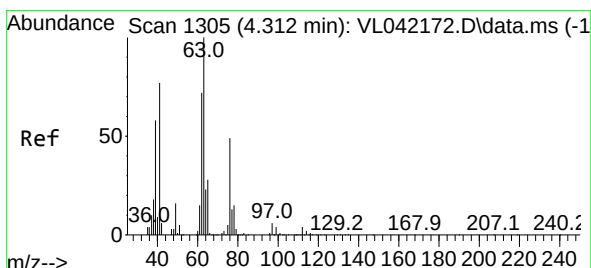
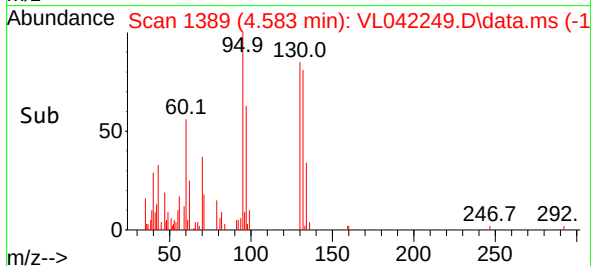
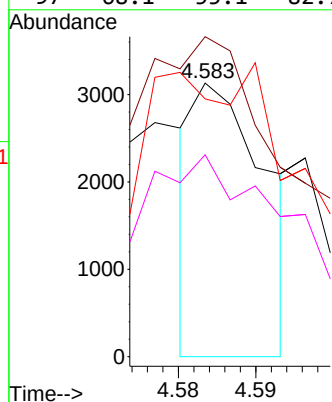
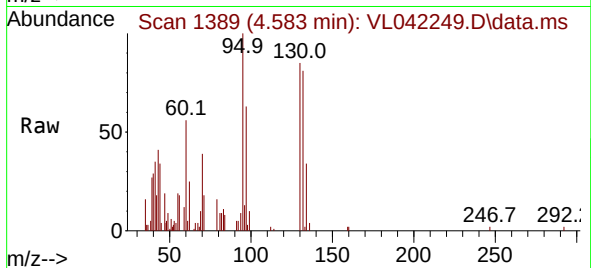
Ion Ratio Lower Upper

130 100

95 143.9 89.8 134.8#

132 89.9 77.4 116.2

97 68.1 55.1 82.7



#39

1,2-Dichloropropane

Concen: 7.151 ppbv

RT: 3.991 min Scan# 1206

Delta R.T. -0.320 min

Lab File: VL042249.D

Acq: 08 Apr 2025 00:46

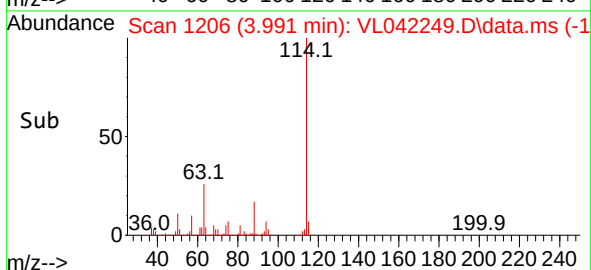
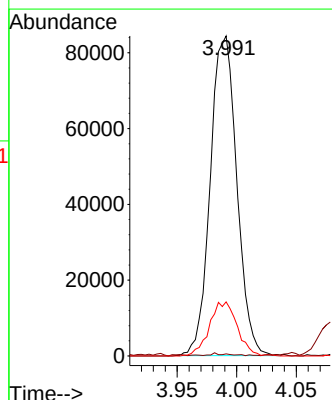
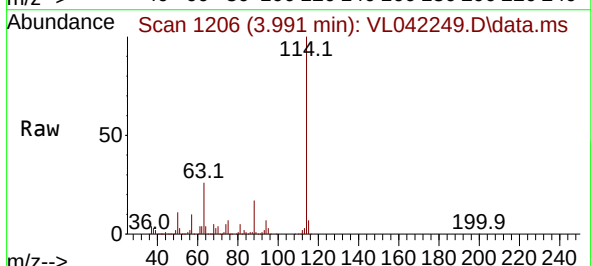
Tgt Ion: 63 Resp: 130789

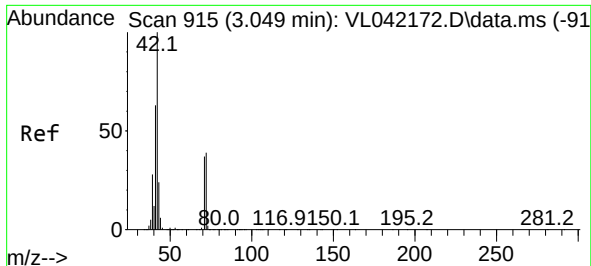
Ion Ratio Lower Upper

63 100

41 0.3 61.7 92.5#

62 16.9 57.6 86.4#





#41

Tetrahydrofuran

Concen: 0.055 ppbv

RT: 3.088 min Scan# 91

Delta R.T. 0.039 min

Lab File: VL042249.D

Acq: 08 Apr 2025 00:46

Instrument :

MSVOA_L

ClientSampleId :

SSSG-B10-1-03312025-SPLIT

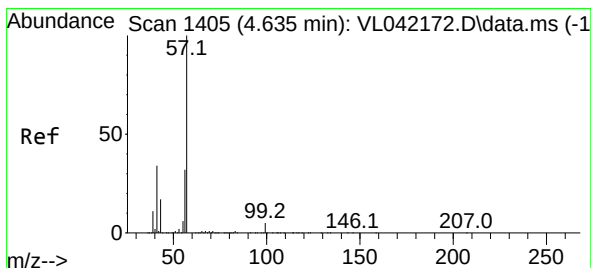
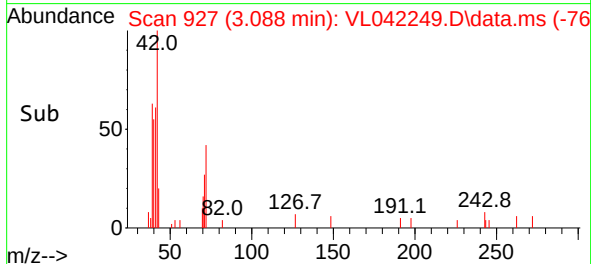
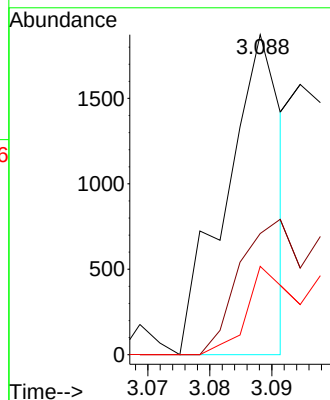
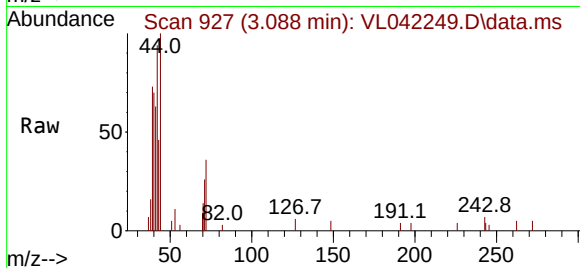
Tgt Ion: 42 Resp: 1169

Ion Ratio Lower Upper

42 100

72 0.0 31.4 47.0#

71 48.2 30.2 45.4#



#44

2,2,4-Trimethylpentane

Concen: 0.281 ppbv

RT: 4.677 min Scan# 1418

Delta R.T. 0.042 min

Lab File: VL042249.D

Acq: 08 Apr 2025 00:46

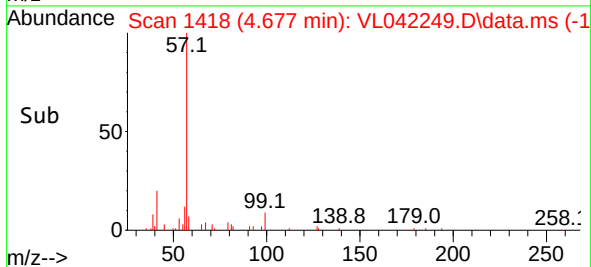
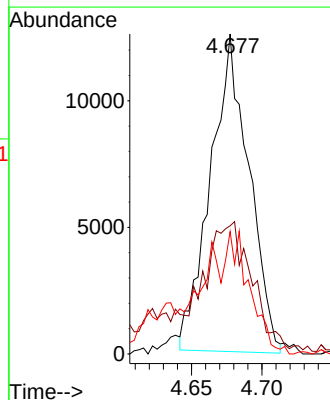
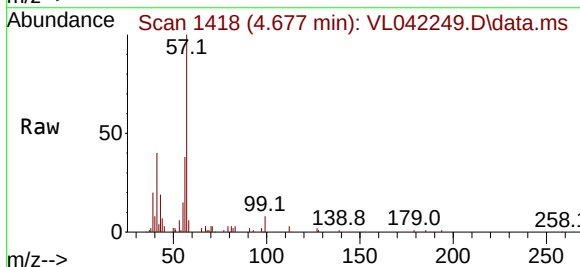
Tgt Ion: 57 Resp: 23872

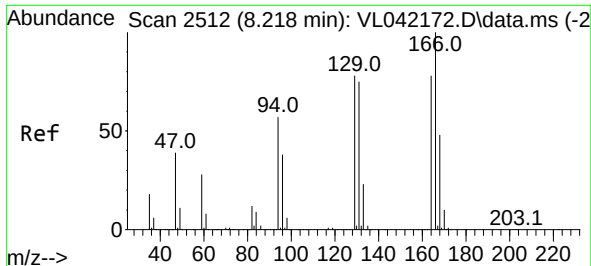
Ion Ratio Lower Upper

57 100

41 65.8 26.8 40.2#

56 59.3 25.6 38.4#



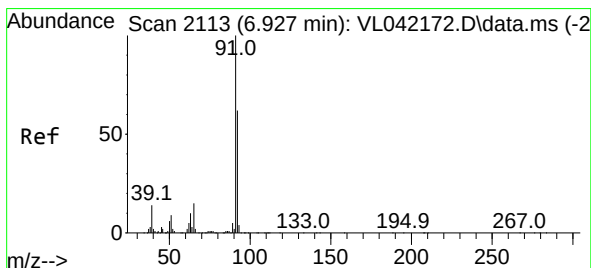
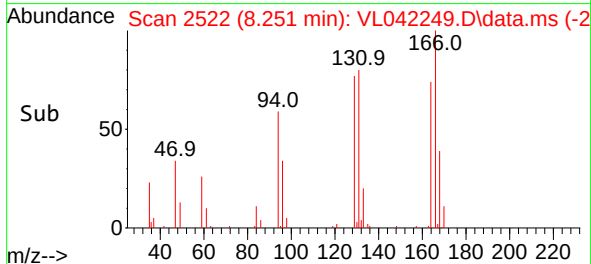
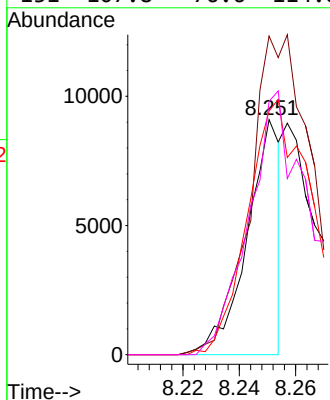
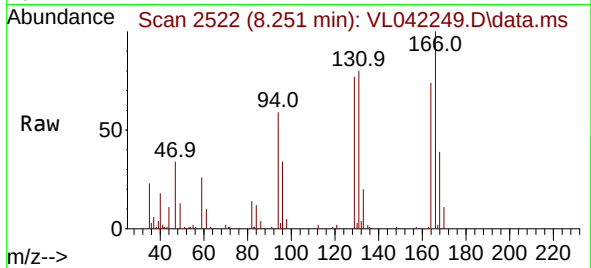


#52
Tetrachloroethene
Concen: 0.371 ppbv
RT: 8.251 min Scan# 2127
Delta R.T. 0.032 min
Lab File: VL042249.D
Acq: 08 Apr 2025 00:46

Instrument :
MSVOA_L
ClientSampleId :
SSSG-B10-1-03312025-SPLIT

Tgt Ion:164 Resp: 7399

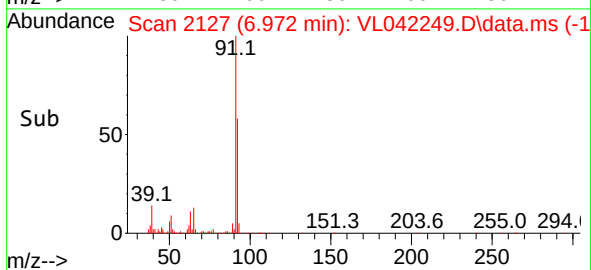
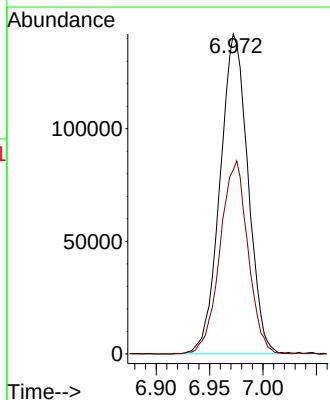
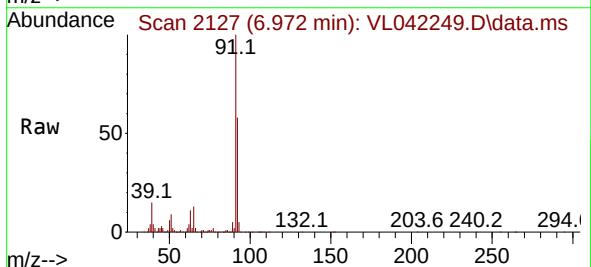
Ion	Ratio	Lower	Upper
164	100		
166	135.5	102.5	153.7
129	103.7	79.8	119.8
131	107.8	76.6	114.8

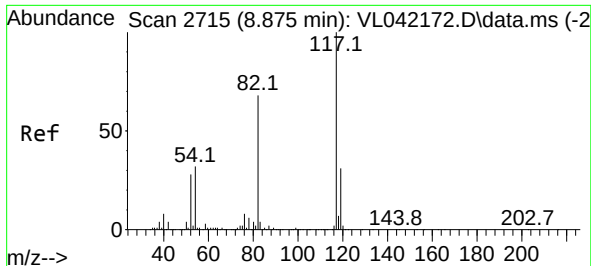


#53
Toluene
Concen: 4.334 ppbv
RT: 6.972 min Scan# 2127
Delta R.T. 0.045 min
Lab File: VL042249.D
Acq: 08 Apr 2025 00:46

Tgt Ion: 91 Resp: 258006

Ion	Ratio	Lower	Upper
91	100		
92	60.6	48.4	72.6

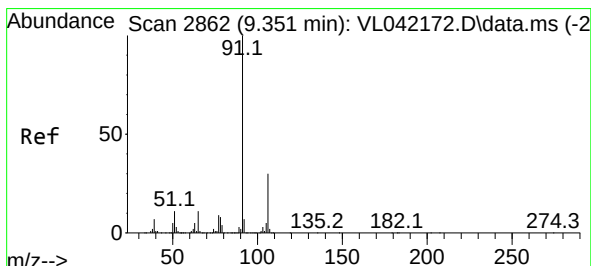
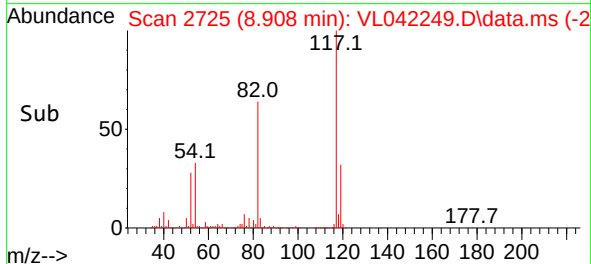
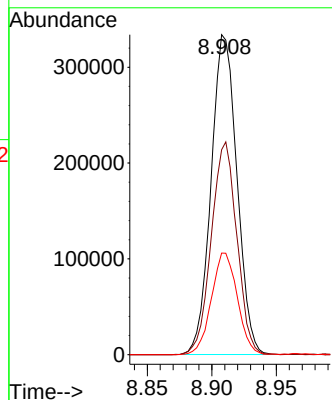
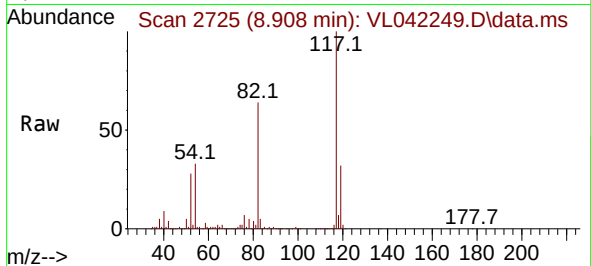




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.908 min Scan# 21
Delta R.T. 0.032 min
Lab File: VL042249.D
Acq: 08 Apr 2025 00:46

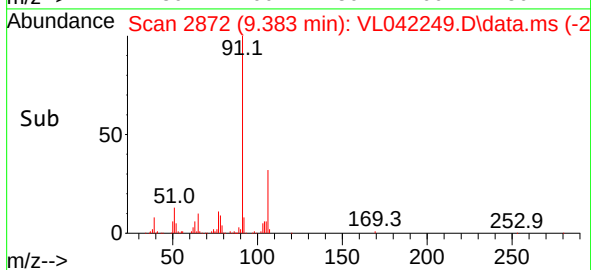
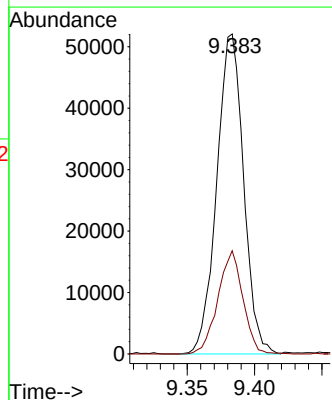
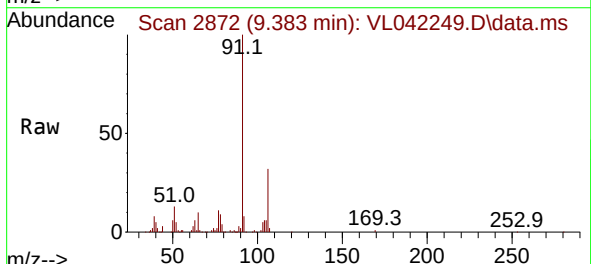
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B10-1-03312025-SPLIT

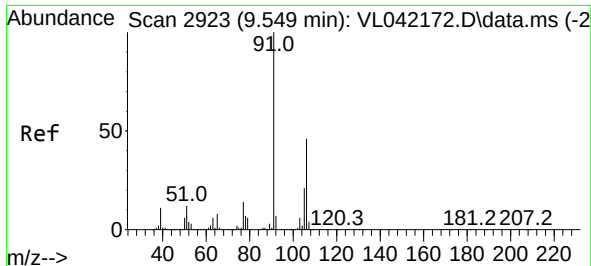
Tgt Ion:117 Resp: 465539
Ion Ratio Lower Upper
117 100
82 65.7 55.8 83.6
119 32.0 25.5 38.3



#58
Ethyl Benzene
Concen: 0.872 ppbv
RT: 9.383 min Scan# 2872
Delta R.T. 0.032 min
Lab File: VL042249.D
Acq: 08 Apr 2025 00:46

Tgt Ion: 91 Resp: 72131
Ion Ratio Lower Upper
91 100
106 32.2 24.2 36.2





#59

m/p-Xylene

Concen: 4.307 ppbv

RT: 9.558 min Scan# 2923

Delta R.T. 0.010 min

Lab File: VL042249.D

Acq: 08 Apr 2025 00:46

Instrument :

MSVOA_L

ClientSampleId :

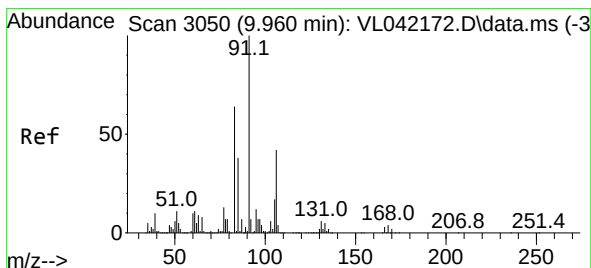
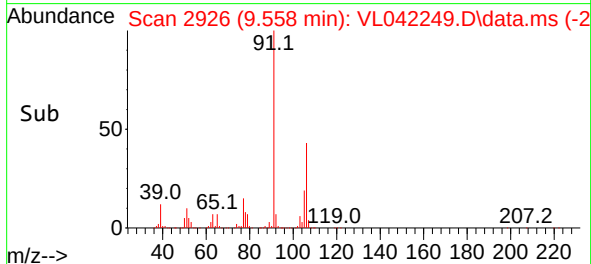
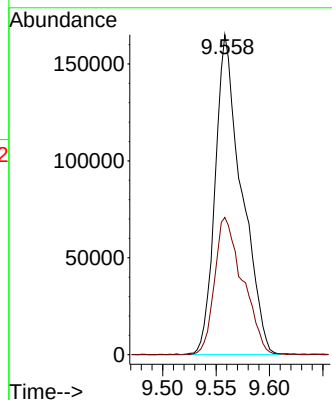
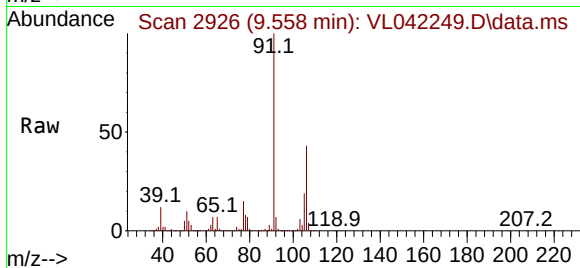
SSSG-B10-1-03312025-SPLIT

Tgt Ion: 91 Resp: 284370

Ion Ratio Lower Upper

91 100

106 45.7 36.4 54.6



#60

o-Xylene

Concen: 1.790 ppbv

RT: 9.992 min Scan# 3060

Delta R.T. 0.032 min

Lab File: VL042249.D

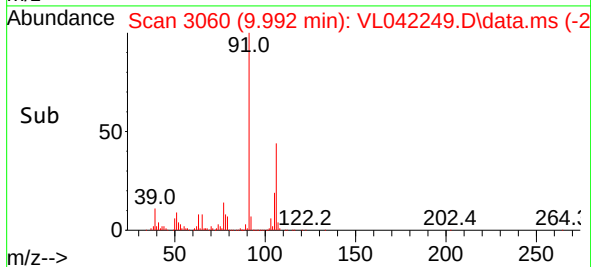
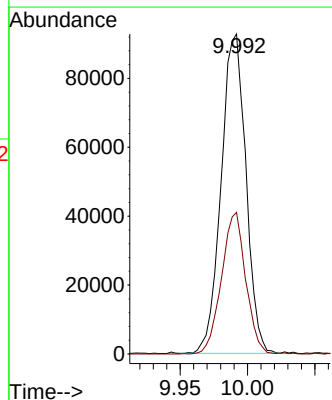
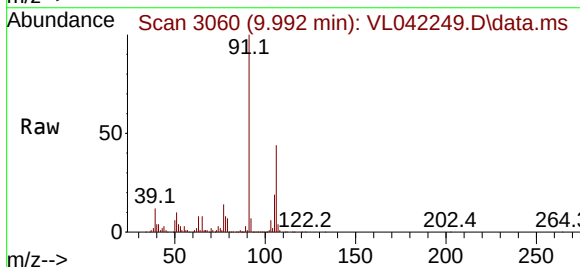
Acq: 08 Apr 2025 00:46

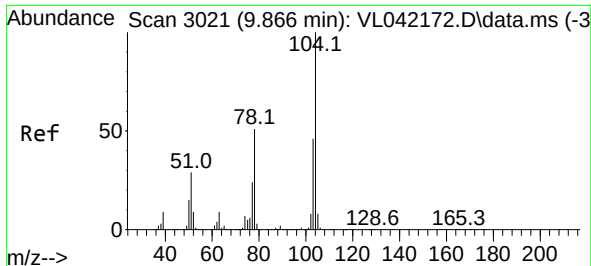
Tgt Ion: 91 Resp: 118466

Ion Ratio Lower Upper

91 100

106 43.5 20.8 62.5





#61

Styrene

Concen: 0.037 ppbv

RT: 9.898 min Scan# 3021

Delta R.T. 0.032 min

Lab File: VL042249.D

Acq: 08 Apr 2025 00:46

Instrument :

MSVOA_1

ClientSampleId :

SSSG-B10-1-03312025-SPLIT

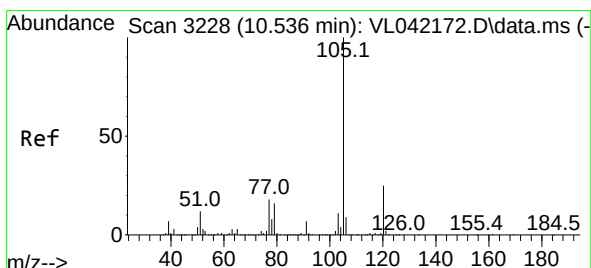
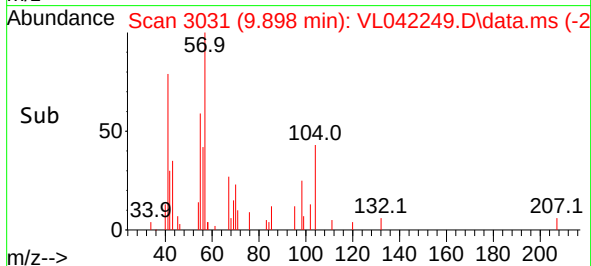
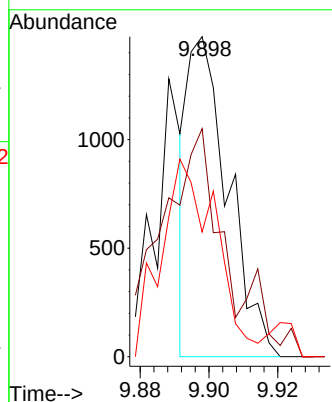
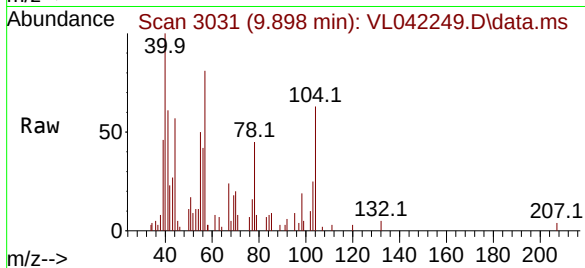
Tgt Ion:104 Resp: 1201

Ion Ratio Lower Upper

104 100

78 119.2 41.8 62.6#

103 0.0 37.0 55.4#



#62

Isopropylbenzene

Concen: 0.047 ppbv

RT: 10.558 min Scan# 3235

Delta R.T. 0.023 min

Lab File: VL042249.D

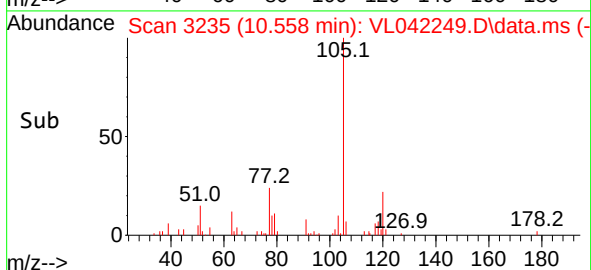
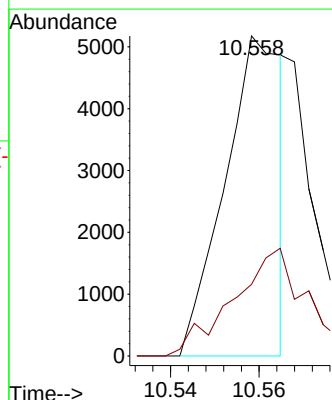
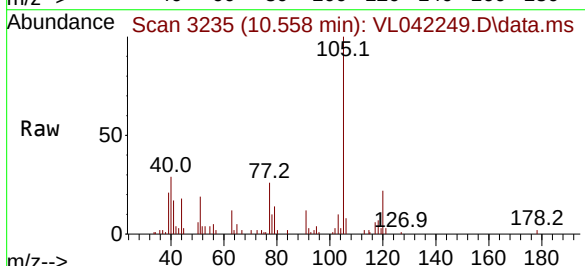
Acq: 08 Apr 2025 00:46

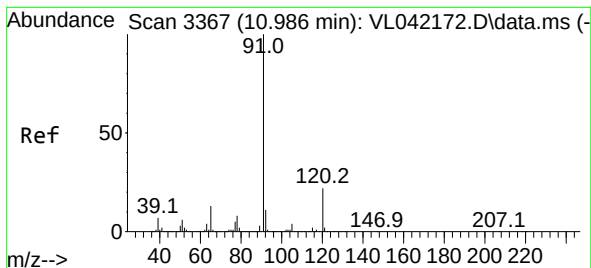
Tgt Ion:105 Resp: 4630

Ion Ratio Lower Upper

105 100

120 42.0 19.9 29.9#





#64

n-propylbenzene

Concen: 0.233 ppbv

RT: 11.011 min Scan# 31

Delta R.T. 0.026 min

Lab File: VL042249.D

Acq: 08 Apr 2025 00:46

Instrument :

MSVOA_L

ClientSampleId :

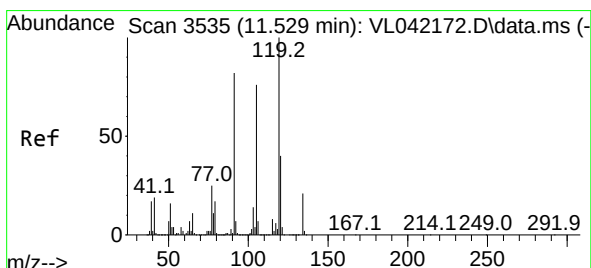
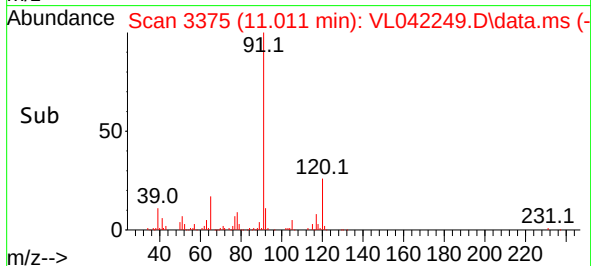
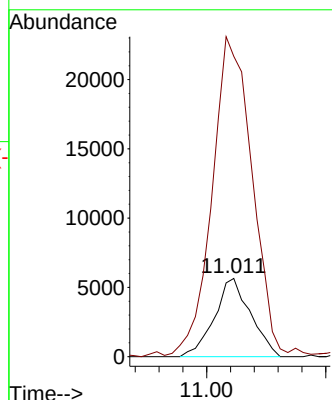
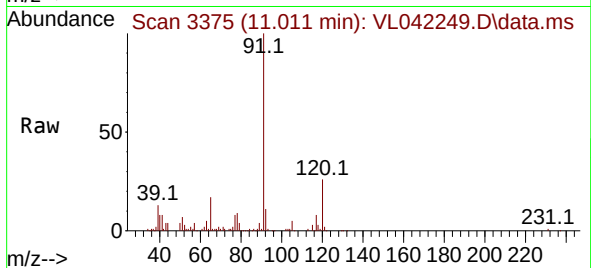
SSSG-B10-1-03312025-SPLIT

Tgt Ion:120 Resp: 5944

Ion Ratio Lower Upper

120 100

91 461.4 376.9 565.3



#65

tert-Butylbenzene

Concen: 0.063 ppbv

RT: 11.901 min Scan# 3650

Delta R.T. 0.372 min

Lab File: VL042249.D

Acq: 08 Apr 2025 00:46

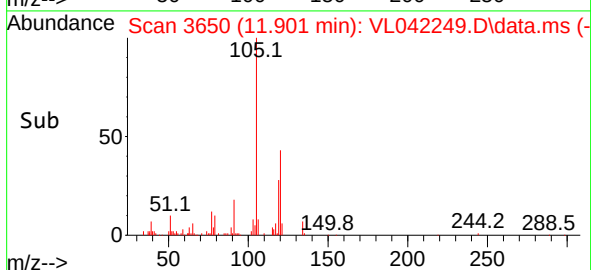
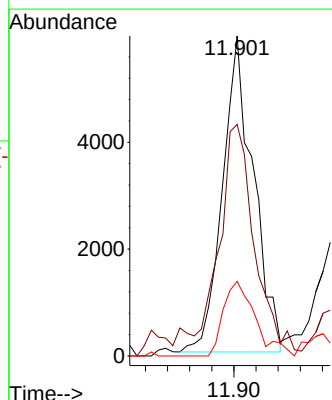
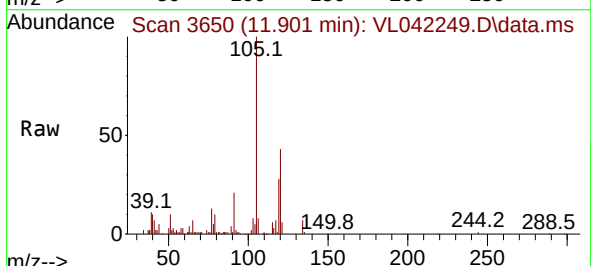
Tgt Ion:119 Resp: 5740

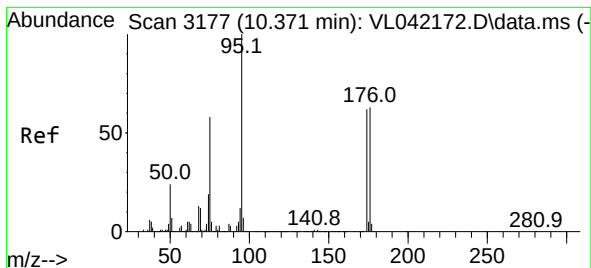
Ion Ratio Lower Upper

119 100

91 94.1 66.0 99.0

134 24.3 16.7 25.1

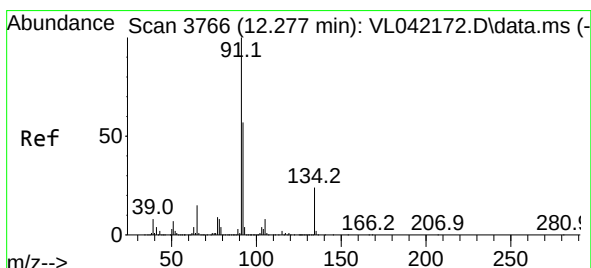
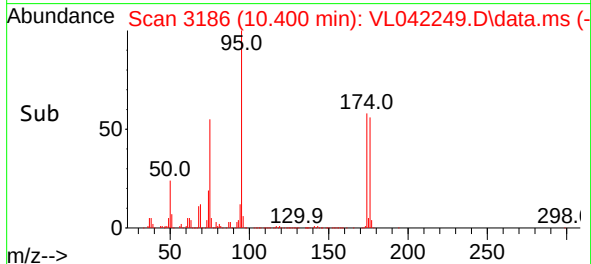
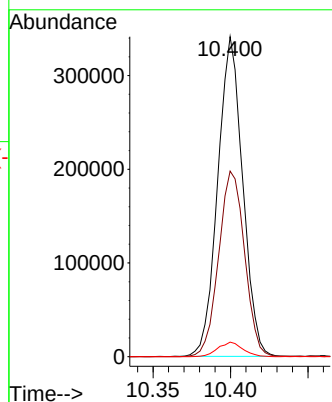
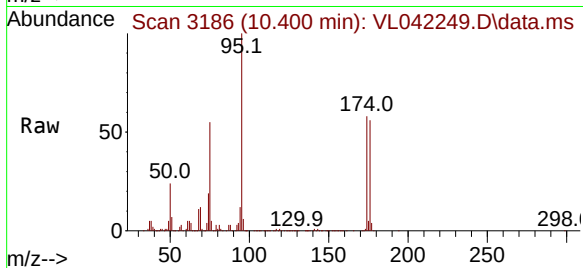




#68
1-Bromo-4-Fluorobenzene
Concen: 9.981 ppbv
RT: 10.400 min Scan# 3177
Delta R.T. 0.029 min
Lab File: VL042249.D
Acq: 08 Apr 2025 00:46

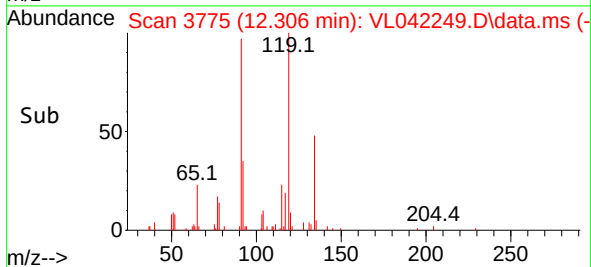
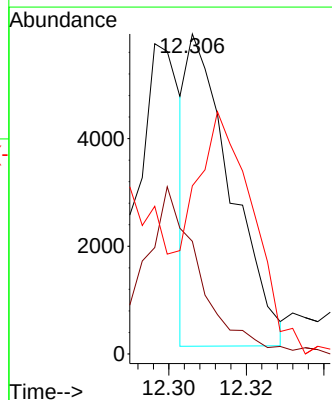
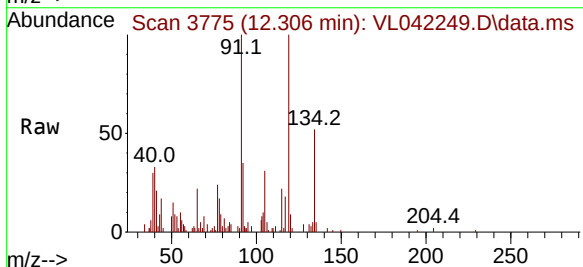
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B10-1-03312025-SPLIT

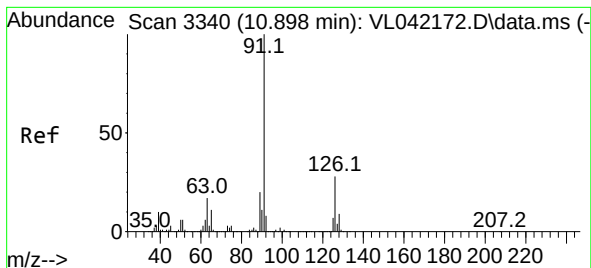
Tgt Ion: 95 Resp: 381596
Ion Ratio Lower Upper
95 100
174 60.6 50.6 76.0
175 4.6 3.8 5.6



#70
n-Butylbenzene
Concen: 0.040 ppbv
RT: 12.306 min Scan# 3775
Delta R.T. 0.029 min
Lab File: VL042249.D
Acq: 08 Apr 2025 00:46

Tgt Ion: 91 Resp: 4533
Ion Ratio Lower Upper
91 100
92 0.0 44.9 67.3#
134 183.5 19.2 28.8#





#71

2-Chlorotoluene

Concen: 0.346 ppbv

RT: 11.008 min Scan# 31

Delta R.T. 0.110 min

Lab File: VL042249.D

Acq: 08 Apr 2025 00:46

Instrument :

MSVOA_L

ClientSampleId :

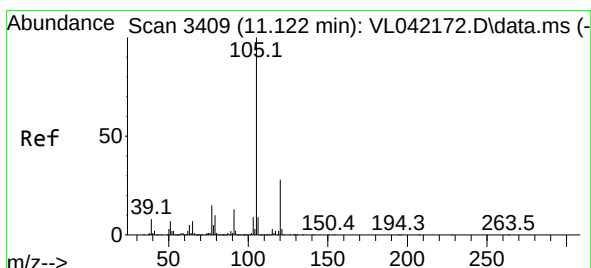
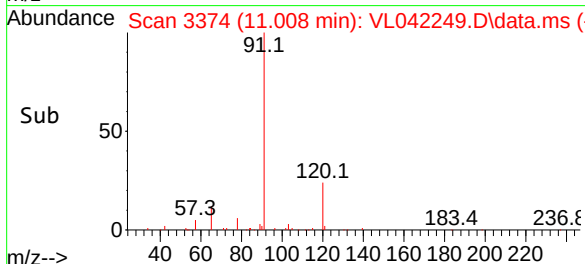
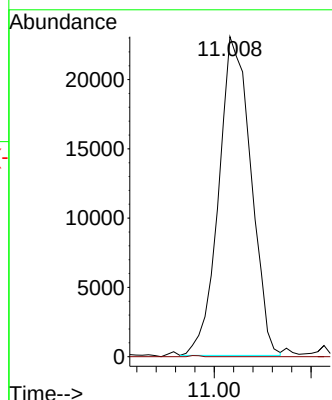
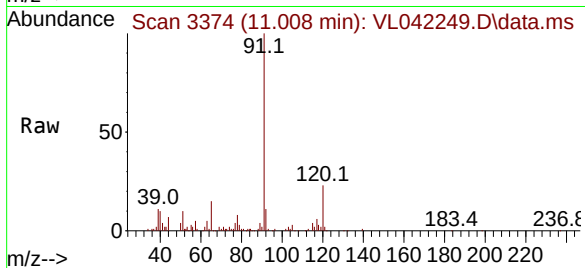
SSSG-B10-1-03312025-SPLIT

Tgt Ion: 91 Resp: 26595

Ion Ratio Lower Upper

91 100

126 0.1 11.6 46.4#



#72

4-Ethyltoluene

Concen: 0.436 ppbv

RT: 11.147 min Scan# 3417

Delta R.T. 0.026 min

Lab File: VL042249.D

Acq: 08 Apr 2025 00:46

Tgt Ion: 105 Resp: 35916

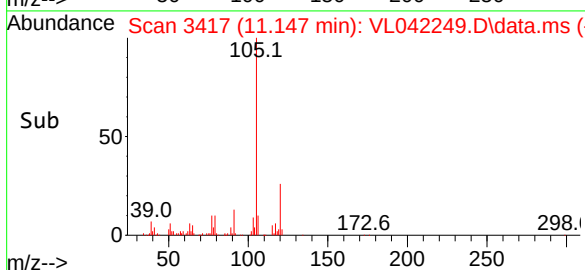
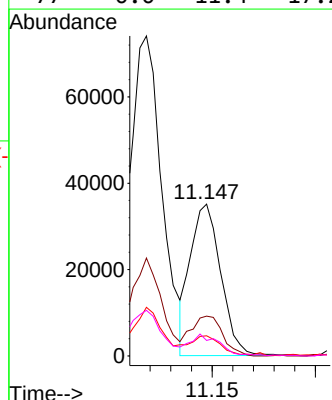
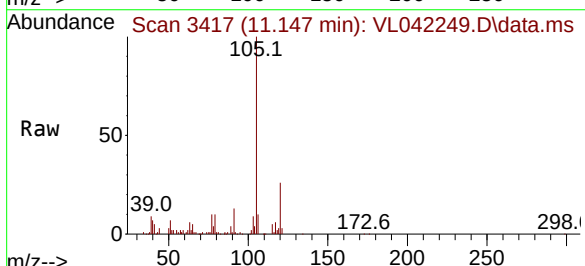
Ion Ratio Lower Upper

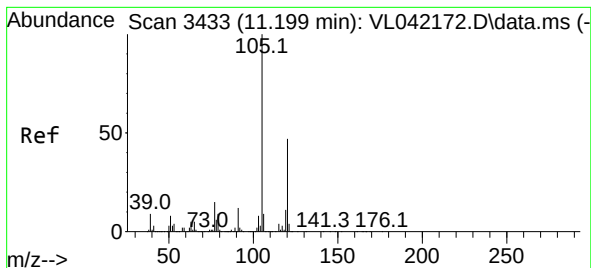
105 100

120 0.0 23.4 35.0#

91 0.0 10.3 15.5#

77 0.0 11.4 17.2#





#73

1,3,5-Trimethylbenzene

Concen: 0.435 ppbv

RT: 11.225 min Scan# 34

Delta R.T. 0.026 min

Lab File: VL042249.D

Acq: 08 Apr 2025 00:46

Instrument :

MSVOA_1

ClientSampleId :

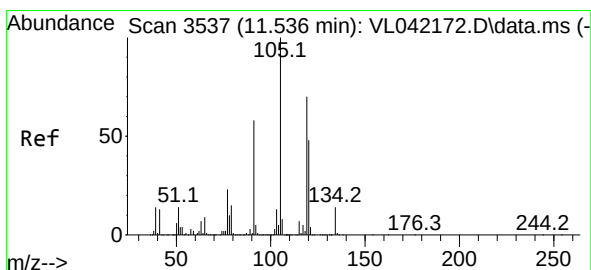
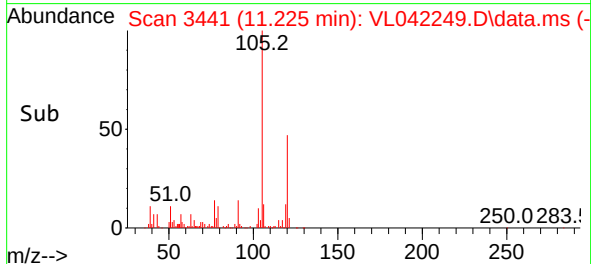
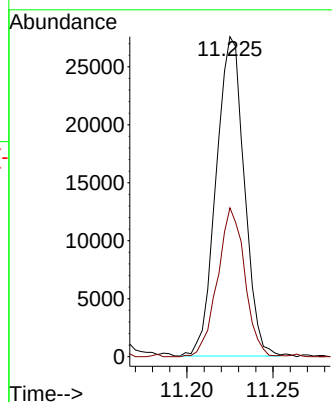
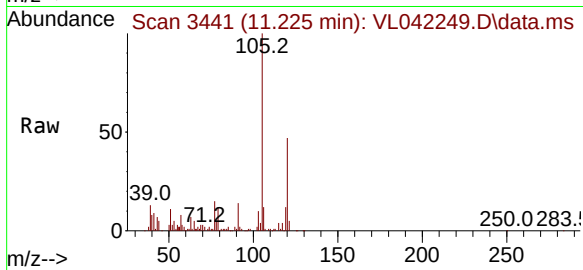
SSSG-B10-1-03312025-SPLIT

Tgt Ion:105 Resp: 31326

Ion Ratio Lower Upper

105 100

120 46.6 37.4 56.0



#74

1,2,4-Trimethylbenzene

Concen: 1.746 ppbv

RT: 11.558 min Scan# 3544

Delta R.T. 0.023 min

Lab File: VL042249.D

Acq: 08 Apr 2025 00:46

Tgt Ion:105 Resp: 144819

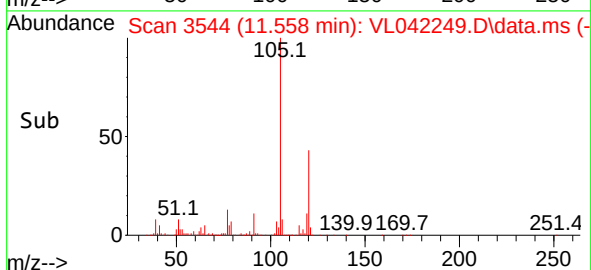
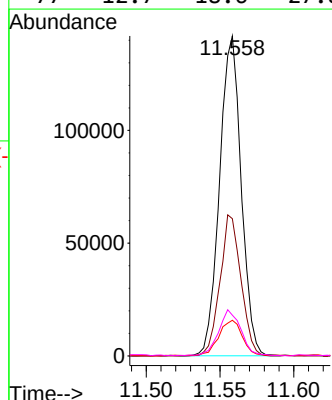
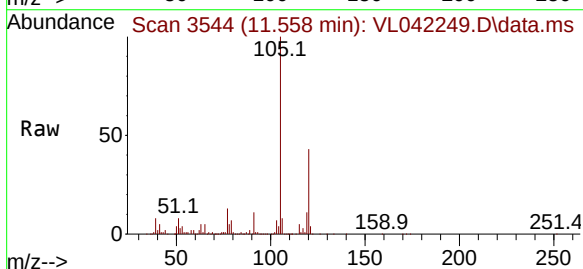
Ion Ratio Lower Upper

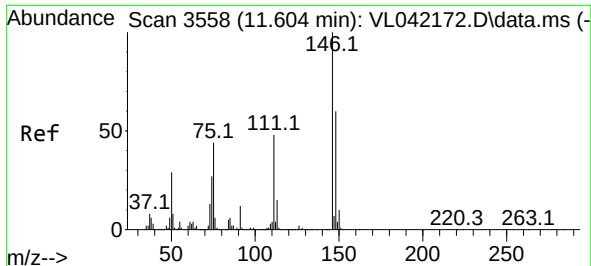
105 100

120 42.9 38.6 58.0

91 11.0 46.2 69.2#

77 12.7 18.6 27.8#





#75

1,3-Dichlorobenzene

Concen: 0.161 ppbv

RT: 11.626 min Scan# 3558

Delta R.T. 0.023 min

Lab File: VL042249.D

Acq: 08 Apr 2025 00:46

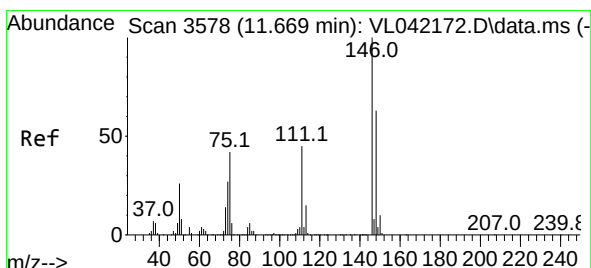
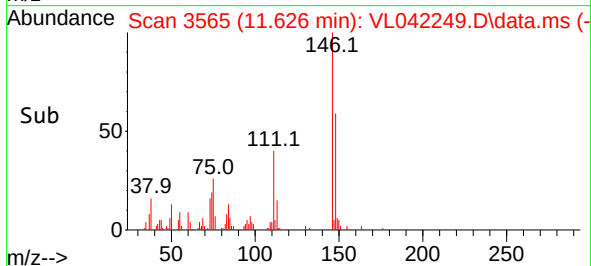
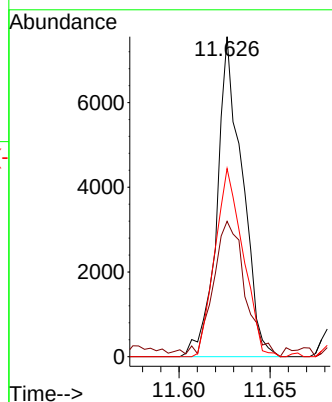
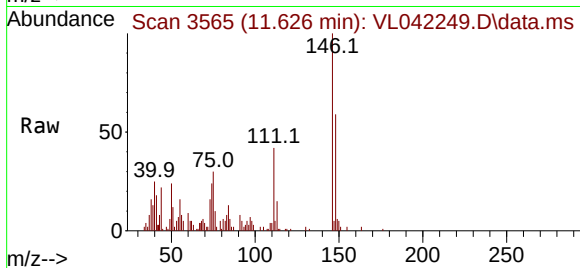
Instrument :

MSVOA_L

ClientSampleId :

SSSG-B10-1-03312025-SPLIT

Tgt Ion:	146	Resp:	7305
Ion Ratio	Lower	Upper	
146	100		
111	56.0	23.8	71.2
148	65.5	31.9	95.9



#76

1,4-Dichlorobenzene

Concen: 0.032 ppbv

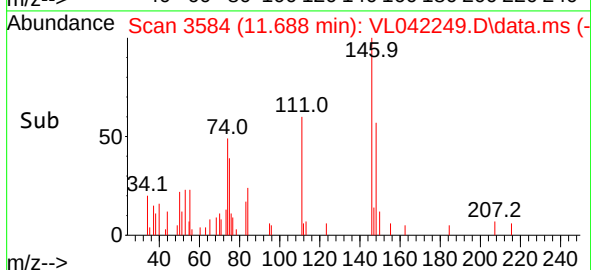
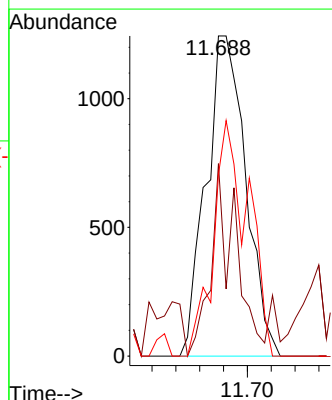
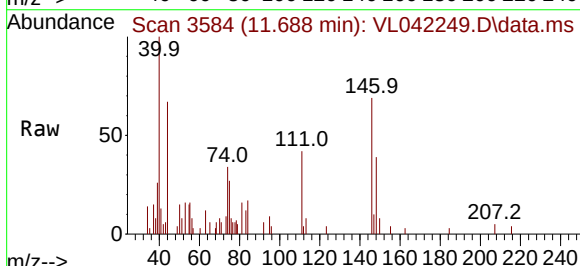
RT: 11.688 min Scan# 3584

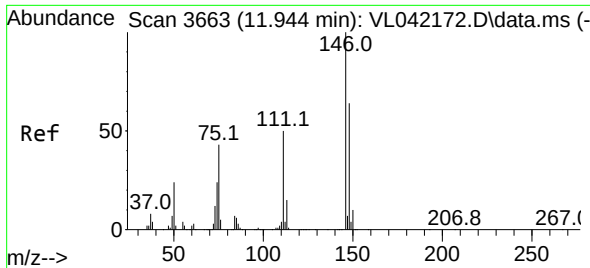
Delta R.T. 0.019 min

Lab File: VL042249.D

Acq: 08 Apr 2025 00:46

Tgt Ion:	146	Resp:	1439
Ion Ratio	Lower	Upper	
146	100		
111	53.8	23.0	69.0
148	66.3	31.9	95.7

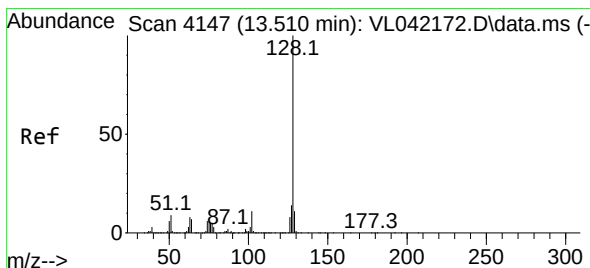
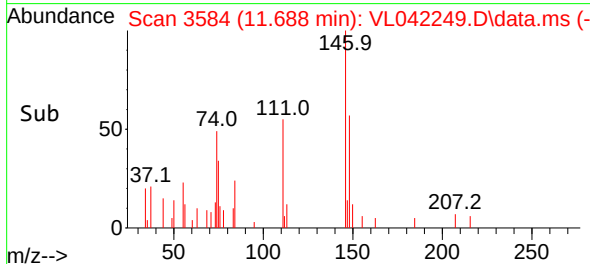
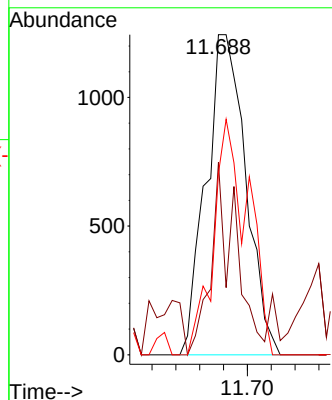
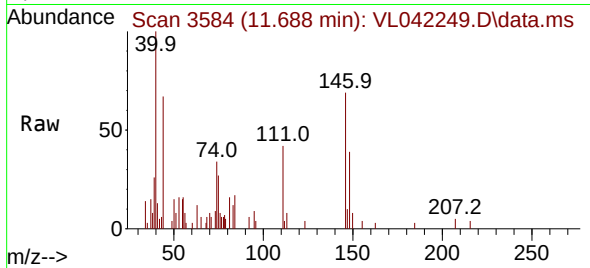




#77
1,2-Dichlorobenzene
Concen: 0.032 ppbv
RT: 11.688 min Scan# 311
Delta R.T. -0.256 min
Lab File: VL042249.D
Acq: 08 Apr 2025 00:46

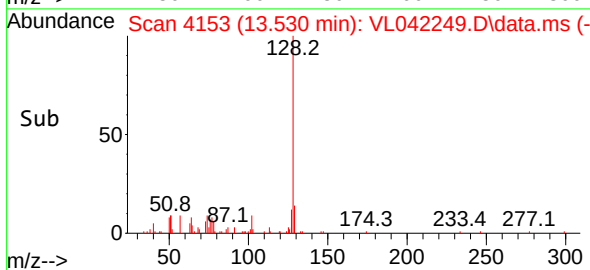
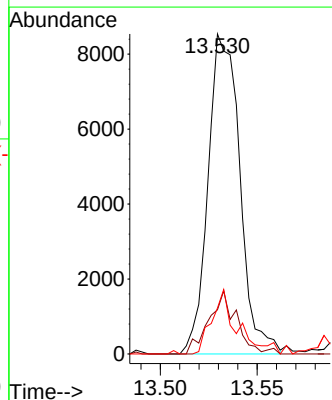
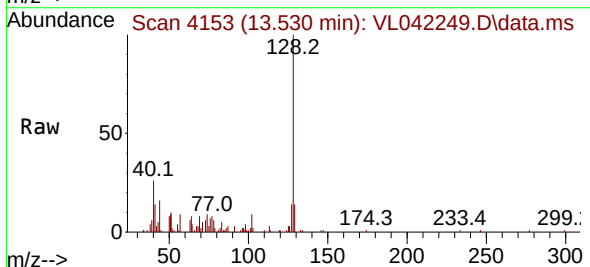
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B10-1-03312025-SPLIT

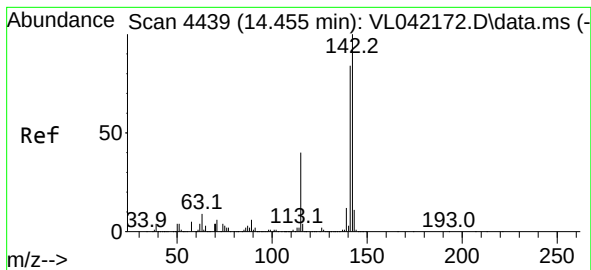
Tgt Ion:	146	Resp:	1439
Ion Ratio	Lower	Upper	
146	100		
111	47.0	24.8	74.3
148	64.3	31.6	94.8



#79
Naphthalene
Concen: 0.107 ppbv
RT: 13.530 min Scan# 4153
Delta R.T. 0.019 min
Lab File: VL042249.D
Acq: 08 Apr 2025 00:46

Tgt Ion:	128	Resp:	9741
Ion Ratio	Lower	Upper	
128	100		
127	13.8	10.8	16.2
129	14.3	9.0	13.4





#80

Naphthalene, 2-methyl-

Concen: 0.046 ppbv

RT: 14.481 min Scan# 44

Delta R.T. 0.026 min

Lab File: VL042249.D

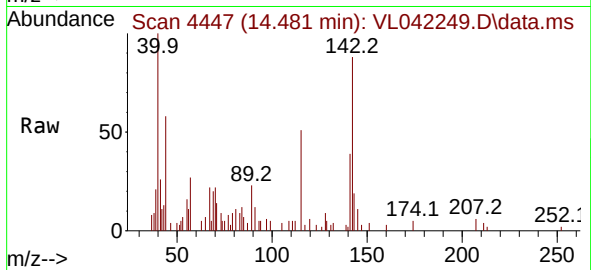
Acq: 08 Apr 2025 00:46

Instrument :

MSVOA_L

ClientSampleId :

SSSG-B10-1-03312025-SPLIT



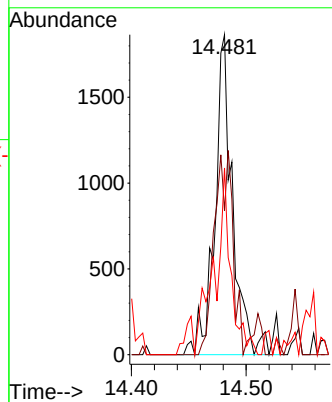
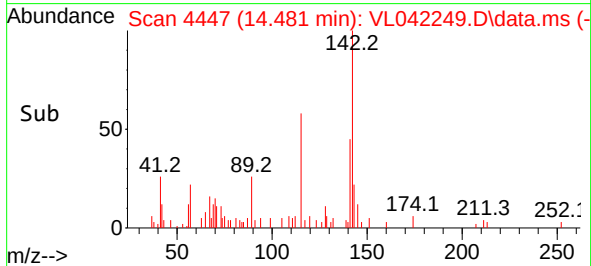
Tgt Ion:142 Resp: 2064

Ion Ratio Lower Upper

142 100

141 71.7 66.3 99.5

115 57.9 31.6 47.4#



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040725\
 Data File : VL042250.D
 Acq On : 08 Apr 2025 01:17
 Operator : SY/MD
 Sample : Q1725-08 4X
 Misc : 400mL/MSVOA_L
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SSSG-B10-2-03312025

Quant Time: Apr 08 04:48:43 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri Mar 28 02:00:52 2025
 Response via : Initial Calibration

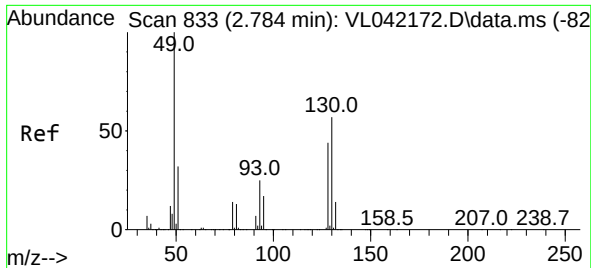
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	2.800	49	202914	10.000	ppbv	0.02
33) 1,4-Difluorobenzene	3.981	114	515559	10.000	ppbv	0.03
55) Chlorobenzene-d5	8.904	117	442488	10.000	ppbv	0.03
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.396	95	355772	9.791	ppbv	0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.900%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.505	85	3378	0.113	ppbv #	85
4) Chloromethane	1.538	50	1373	0.112	ppbv	93
9) Propene	1.894	41	183663	13.092	ppbv	87
10) Heptane	5.001	43	1340	0.036	ppbv #	28
11) Trichlorofluoromethane	1.887	101	1578	0.054	ppbv	84
13) Ethanol	1.729	45	1061779	800.643	ppbv	86
15) Acetone	1.842	43	997970	35.166	ppbv	98
16) 1,3-Butadiene	1.606	39	2813	0.203	ppbv #	37
17) tert-Butyl alcohol	1.894	59	73586	2.082	ppbv	95
19) Isopropyl Alcohol	1.894	45	1615569	100.898	ppbv #	32
20) Methylene Chloride	2.072	84	2531	0.239	ppbv	97
21) Allyl Chloride	2.052	41	3603	0.180	ppbv #	22
23) Vinyl Acetate	2.467	43	8006	0.652	ppbv #	84
25) Ethyl Acetate	2.855	43	14171	0.192	ppbv #	91
26) Hexane	2.842	57	3600	0.127	ppbv #	35
28) Methyl tert-Butyl Ether	2.573	73	1970	0.111	ppbv #	1
29) Chloroform	2.861	83	15997	0.384	ppbv	90
34) 2-Butanone	2.570	43	204814	5.479	ppbv	98
36) Benzene	3.680	78	2795	0.055	ppbv	94
39) 1,2-Dichloropropane	3.981	63	131688	7.075	ppbv #	22
41) Tetrahydrofuran	3.085	42	1288	0.060	ppbv #	54
52) Tetrachloroethene	8.247	164	15893	0.784	ppbv	96
53) Toluene	6.965	91	10220	0.169	ppbv #	20
58) Ethyl Benzene	9.380	91	3497	0.044	ppbv	99
59) m/p-Xylene	9.555	91	29838	0.475	ppbv	95
60) o-Xylene	9.979	91	13109	0.208	ppbv	98
66) Benzyl Chloride	11.749	91	580	0.063	ppbv #	94
72) 4-Ethyltoluene	11.141	105	3131	0.040	ppbv #	60
73) 1,3,5-Trimethylbenzene	11.222	105	3445	0.050	ppbv	90
74) 1,2,4-Trimethylbenzene	11.552	105	13306	0.169	ppbv #	67

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

Quant Time: Apr 08 04:48:43 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Mar 28 02:00:52 2025
Response via : Initial Calibration

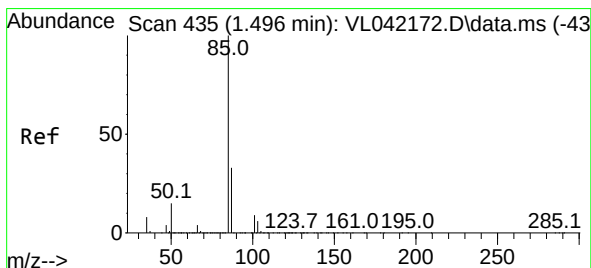
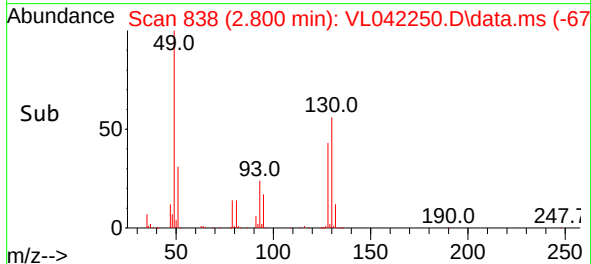
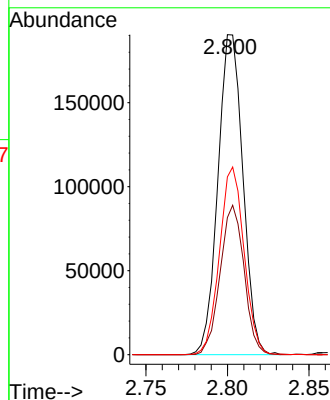
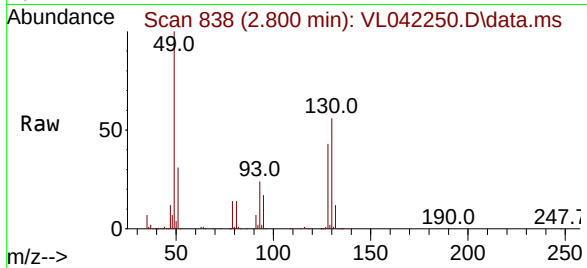




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 2.800 min Scan# 81
 Delta R.T. 0.016 min
 Lab File: VL042250.D
 Acq: 08 Apr 2025 01:17

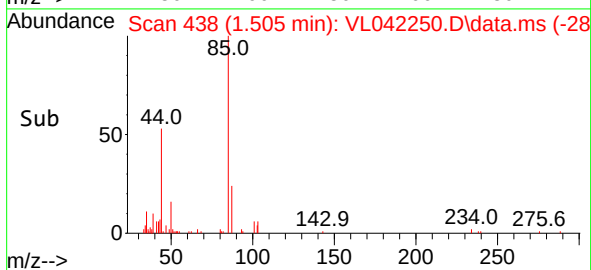
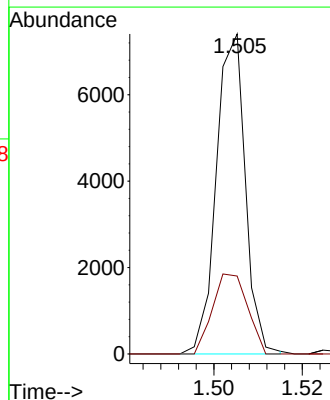
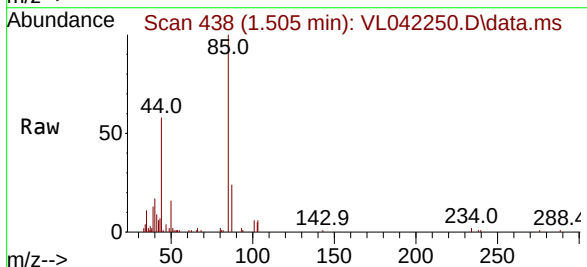
Instrument :
 MSVOA_L
 ClientSampleId :
 SSSG-B10-2-03312025

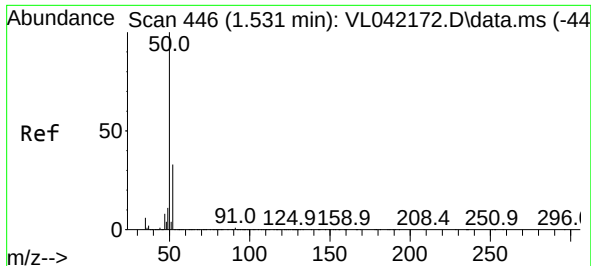
Tgt Ion: 49 Resp: 202914
 Ion Ratio Lower Upper
 49 100
 128 44.7 22.9 68.5
 130 57.7 28.8 86.4



#2
 Dichlorodifluoromethane
 Concen: 0.113 ppbv
 RT: 1.505 min Scan# 438
 Delta R.T. 0.010 min
 Lab File: VL042250.D
 Acq: 08 Apr 2025 01:17

Tgt Ion: 85 Resp: 3378
 Ion Ratio Lower Upper
 85 100
 87 24.4 26.1 39.1#

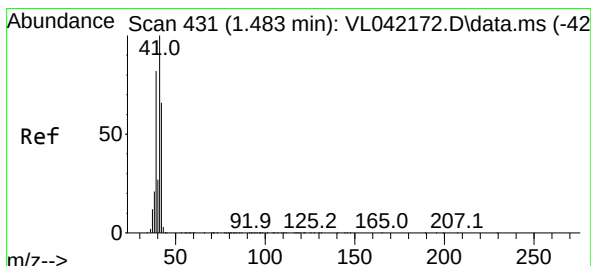
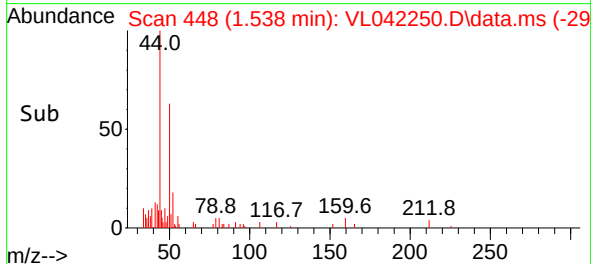
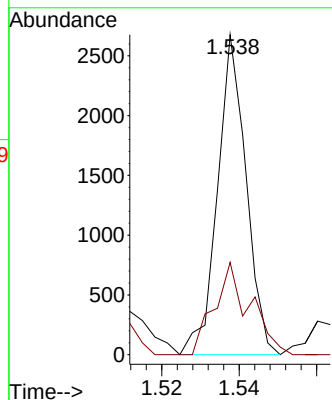
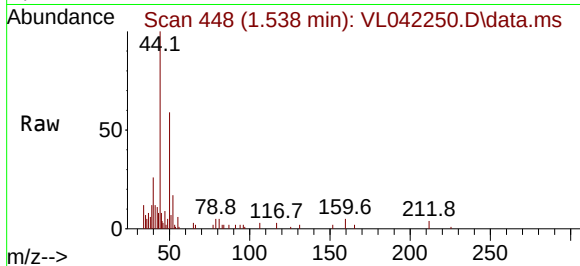




#4
Chloromethane
Concen: 0.112 ppbv
RT: 1.538 min Scan# 44
Delta R.T. 0.006 min
Lab File: VL042250.D
Acq: 08 Apr 2025 01:17

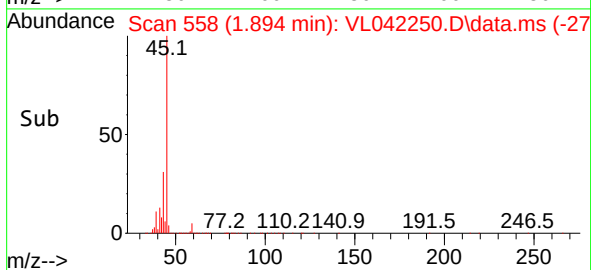
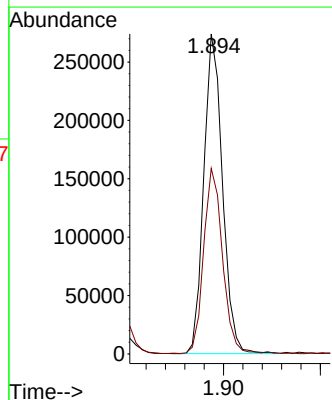
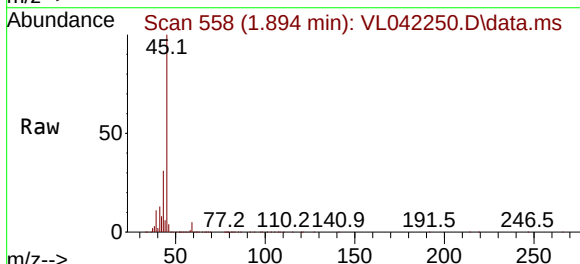
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B10-2-03312025

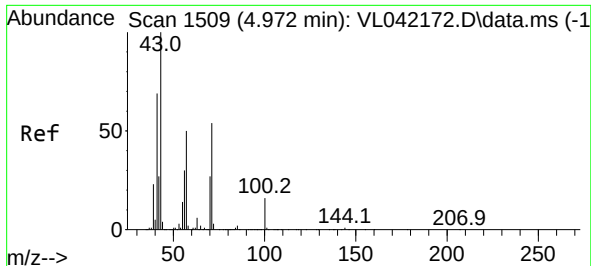
Tgt Ion: 50 Resp: 1373
Ion Ratio Lower Upper
50 100
52 28.8 26.1 39.1



#9
Propene
Concen: 13.092 ppbv
RT: 1.894 min Scan# 558
Delta R.T. 0.411 min
Lab File: VL042250.D
Acq: 08 Apr 2025 01:17

Tgt Ion: 41 Resp: 183663
Ion Ratio Lower Upper
41 100
42 58.7 55.4 83.2

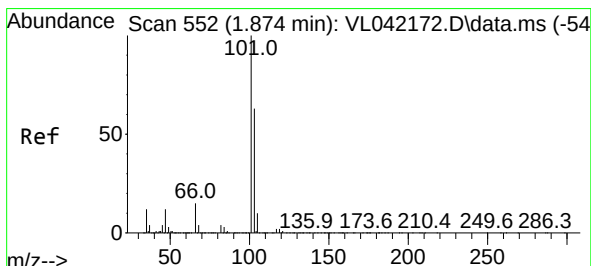
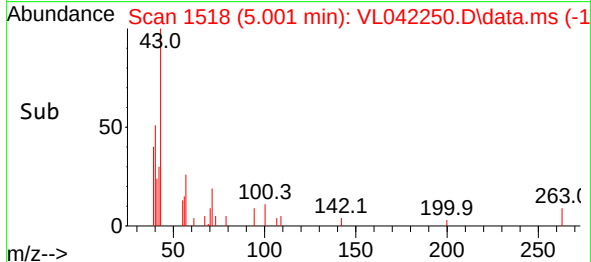
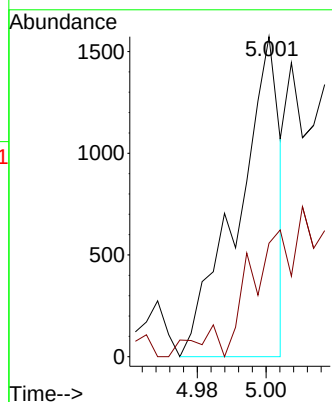
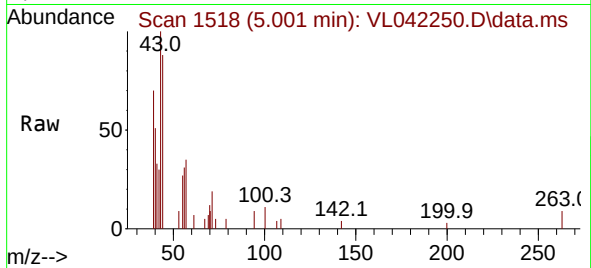




#10
 Heptane
 Concen: 0.036 ppbv
 RT: 5.001 min Scan# 11
 Delta R.T. 0.029 min
 Lab File: VL042250.D
 Acq: 08 Apr 2025 01:17

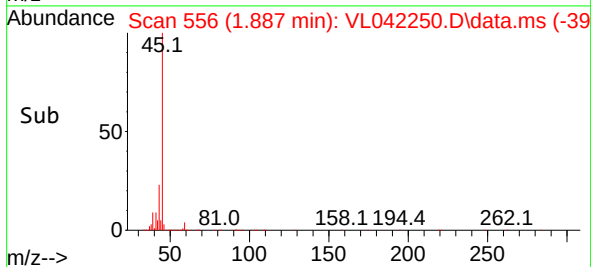
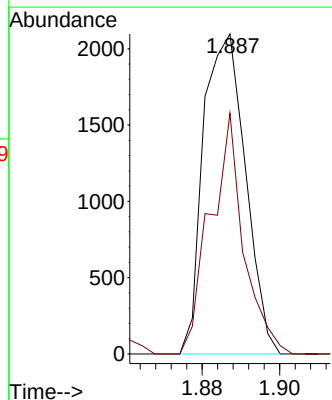
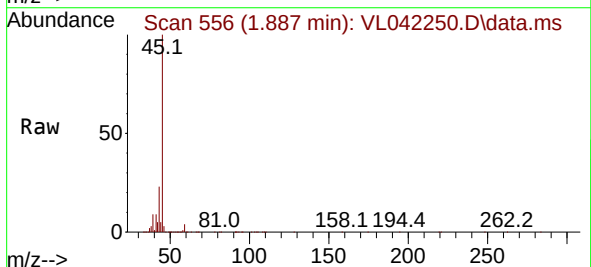
Instrument :
 MSVOA_L
 ClientSampleId :
 SSSG-B10-2-03312025

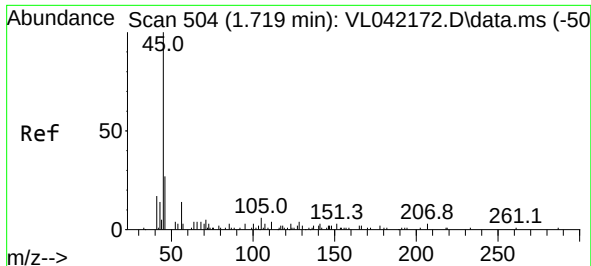
Tgt Ion: 43 Resp: 1340
 Ion Ratio Lower Upper
 43 100
 57 0.0 39.4 59.2#



#11
 Trichlorofluoromethane
 Concen: 0.054 ppbv
 RT: 1.887 min Scan# 556
 Delta R.T. 0.013 min
 Lab File: VL042250.D
 Acq: 08 Apr 2025 01:17

Tgt Ion: 101 Resp: 1578
 Ion Ratio Lower Upper
 101 100
 103 75.2 50.2 75.2

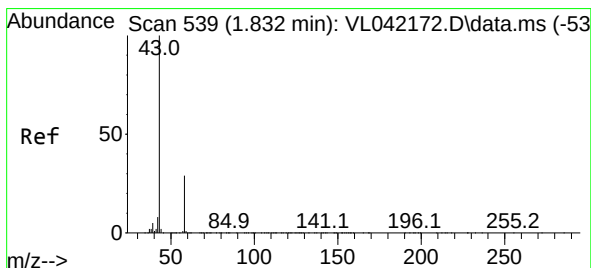
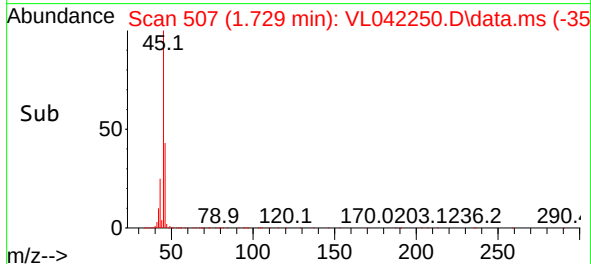
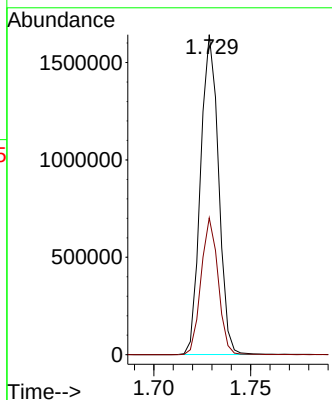
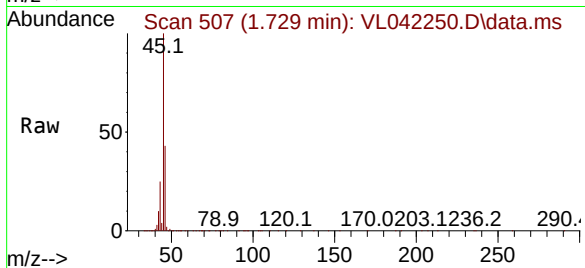




#13
Ethanol
Concen: 800.643 ppbv
RT: 1.729 min Scan# 504
Delta R.T. 0.009 min
Lab File: VL042250.D
Acq: 08 Apr 2025 01:17

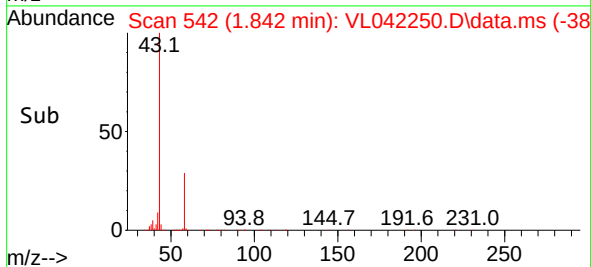
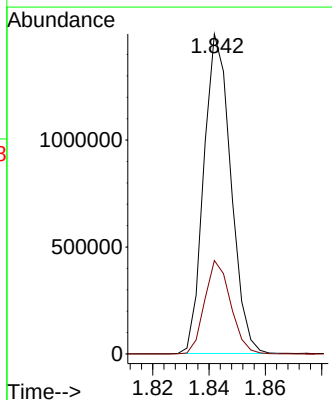
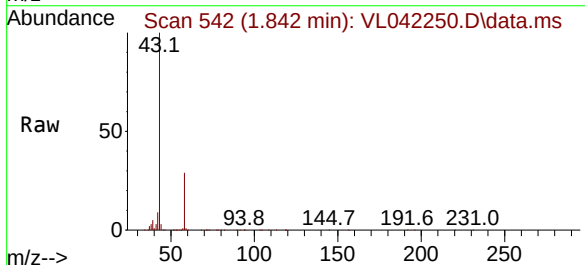
Instrument :
MSVOA_1
ClientSampleId :
SSSG-B10-2-03312025

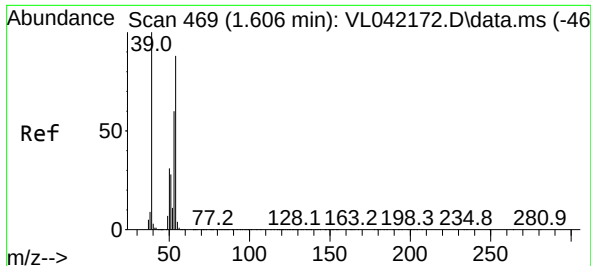
Tgt Ion: 45 Resp: 1061779
Ion Ratio Lower Upper
45 100
46 40.7 20.2 80.8



#15
Acetone
Concen: 35.166 ppbv
RT: 1.842 min Scan# 542
Delta R.T. 0.010 min
Lab File: VL042250.D
Acq: 08 Apr 2025 01:17

Tgt Ion: 43 Resp: 997970
Ion Ratio Lower Upper
43 100
58 28.1 23.2 34.8

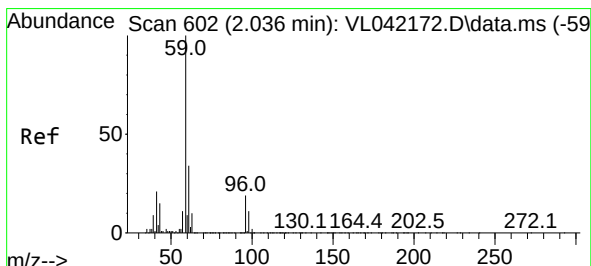
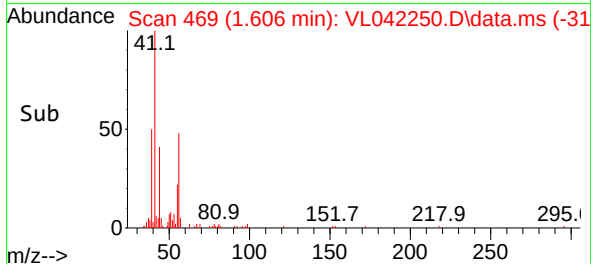
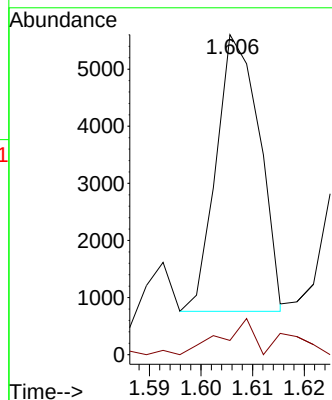
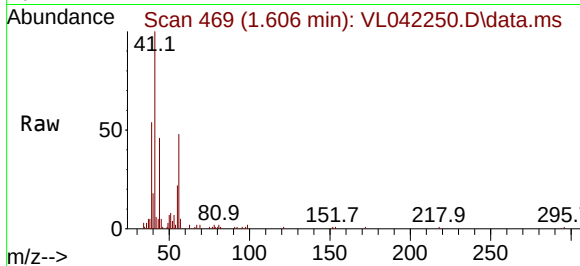




#16
1,3-Butadiene
Concen: 0.203 ppbv
RT: 1.606 min Scan# 413
Delta R.T. -0.000 min
Lab File: VL042250.D
Acq: 08 Apr 2025 01:17

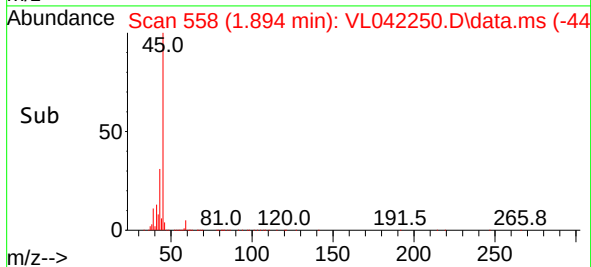
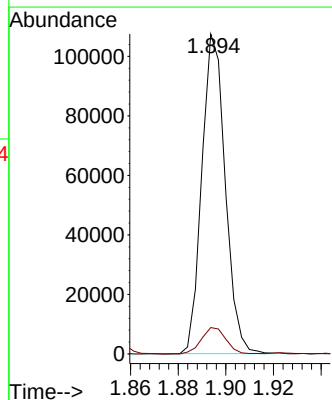
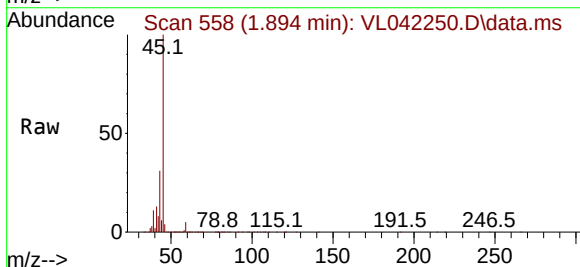
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B10-2-03312025

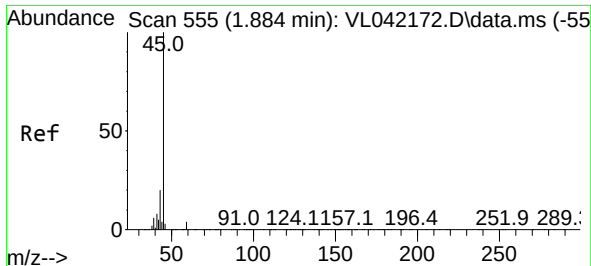
Tgt Ion: 39 Resp: 2813
Ion Ratio Lower Upper
39 100
54 21.9 60.7 91.1#



#17
tert-Butyl alcohol
Concen: 2.082 ppbv
RT: 1.894 min Scan# 558
Delta R.T. -0.143 min
Lab File: VL042250.D
Acq: 08 Apr 2025 01:17

Tgt Ion: 59 Resp: 73586
Ion Ratio Lower Upper
59 100
57 9.2 8.9 13.3

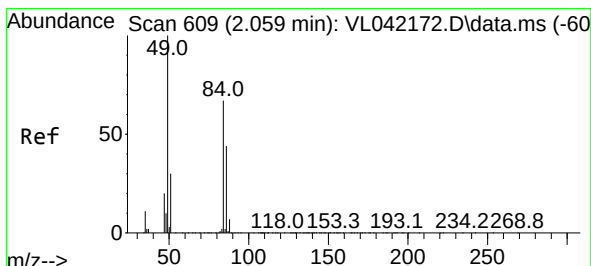
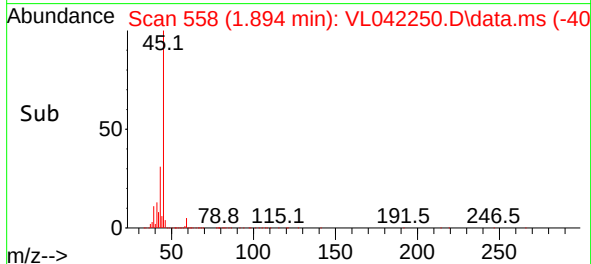
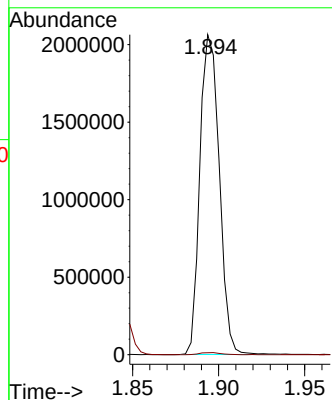
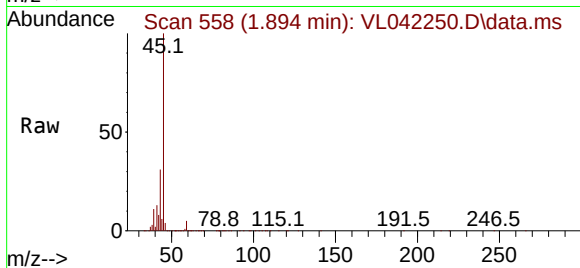




#19
Isopropyl Alcohol
Concen: 100.898 ppbv
RT: 1.894 min Scan# 51
Delta R.T. 0.009 min
Lab File: VL042250.D
Acq: 08 Apr 2025 01:17

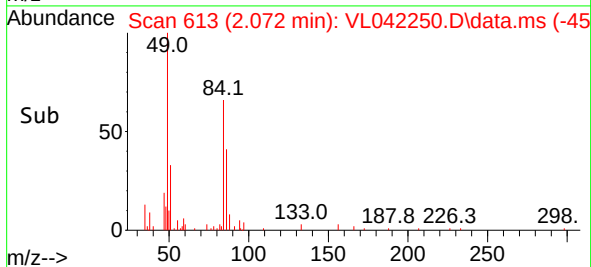
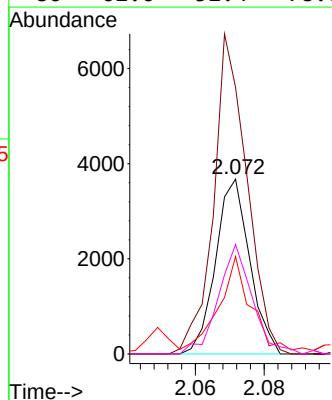
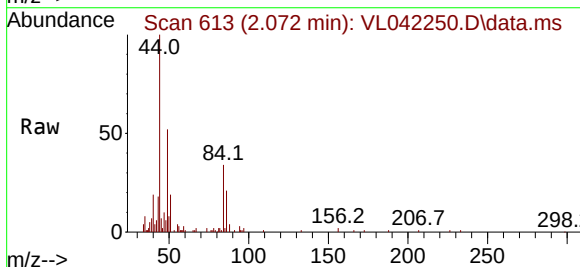
Instrument :
MSVOA_1
ClientSampleId :
SSSG-B10-2-03312025

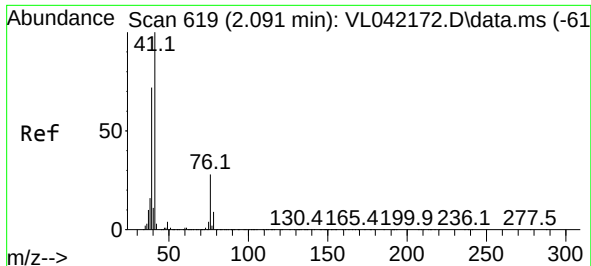
Tgt Ion: 45 Resp: 1615569
Ion Ratio Lower Upper
45 100
58 0.8 36.9 55.3#



#20
Methylene Chloride
Concen: 0.239 ppbv
RT: 2.072 min Scan# 613
Delta R.T. 0.013 min
Lab File: VL042250.D
Acq: 08 Apr 2025 01:17

Tgt Ion: 84 Resp: 2531
Ion Ratio Lower Upper
84 100
49 149.9 120.2 180.4
51 53.1 37.4 56.0
86 62.6 52.4 78.6

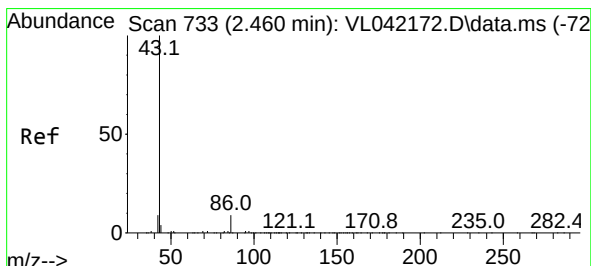
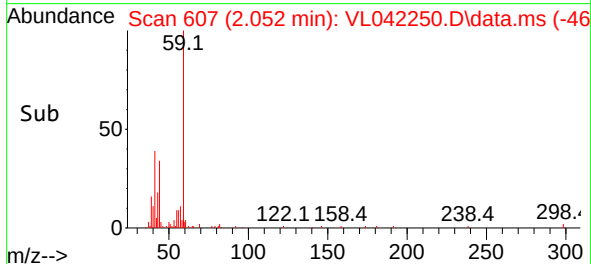
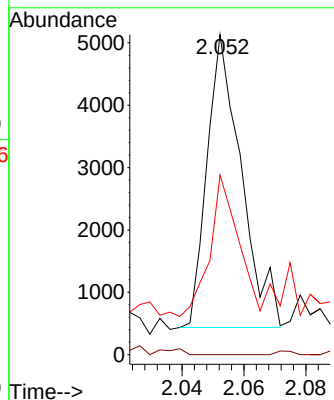
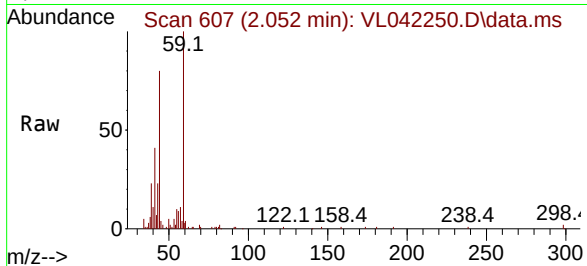




#21
 Allyl Chloride
 Concen: 0.180 ppbv
 RT: 2.052 min Scan# 607
 Delta R.T. -0.039 min
 Lab File: VL042250.D
 Acq: 08 Apr 2025 01:17

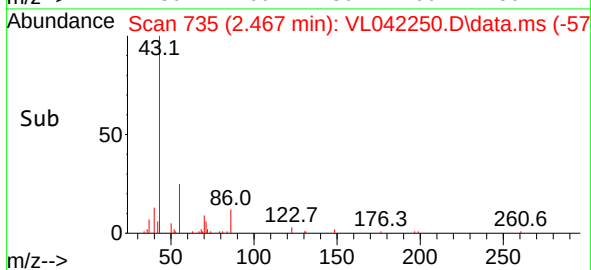
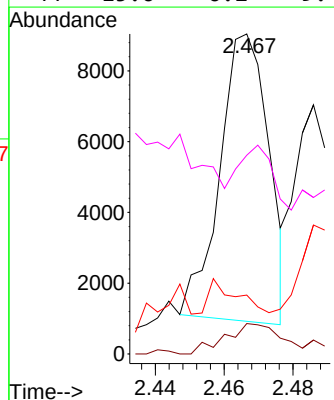
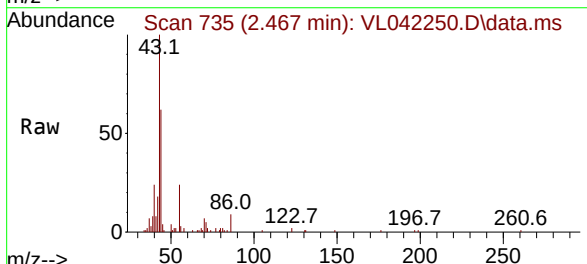
Instrument :
 MSVOA_1
 ClientSampleId :
 SSSG-B10-2-03312025

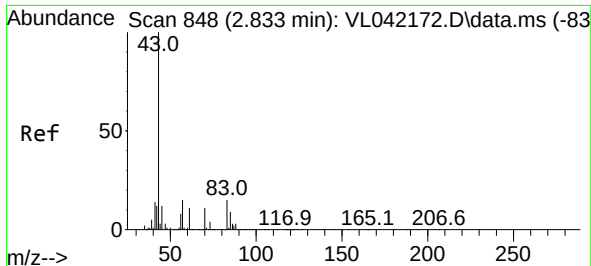
Tgt Ion: 41 Resp: 3603
 Ion Ratio Lower Upper
 41 100
 76 2.9 24.1 36.1#
 39 0.0 61.1 91.7#



#23
 Vinyl Acetate
 Concen: 0.652 ppbv
 RT: 2.467 min Scan# 735
 Delta R.T. 0.006 min
 Lab File: VL042250.D
 Acq: 08 Apr 2025 01:17

Tgt Ion: 43 Resp: 8006
 Ion Ratio Lower Upper
 43 100
 86 10.8 5.5 8.3#
 42 5.0 8.6 13.0#
 44 15.6 6.2 9.4#

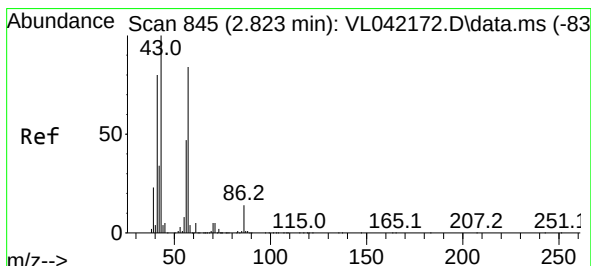
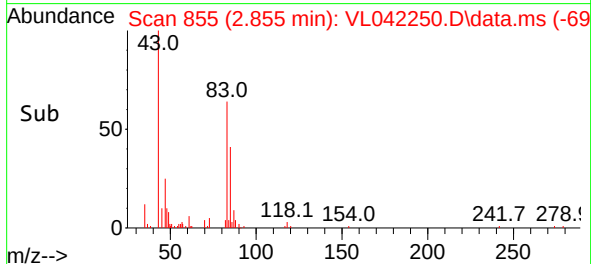
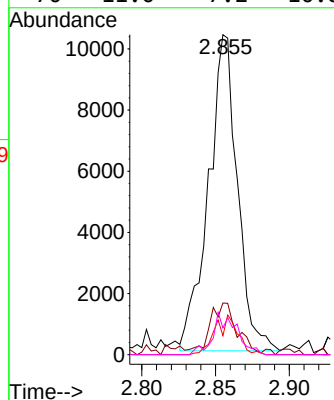
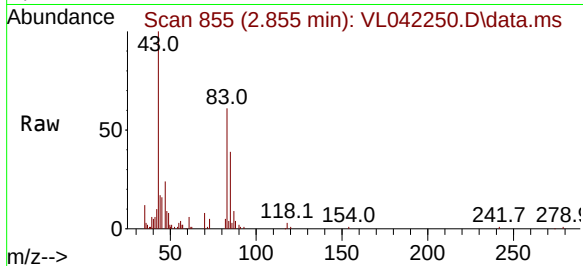




#25
Ethyl Acetate
Concen: 0.192 ppbv
RT: 2.855 min Scan# 81
Delta R.T. 0.022 min
Lab File: VL042250.D
Acq: 08 Apr 2025 01:17

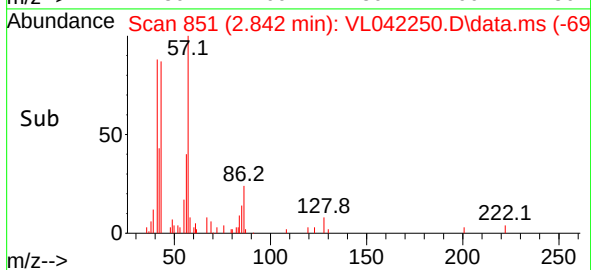
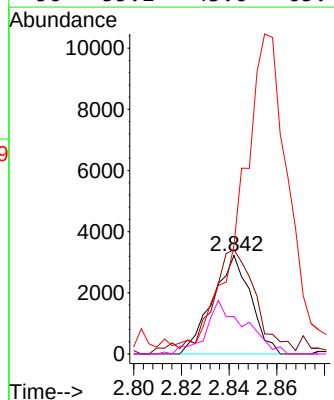
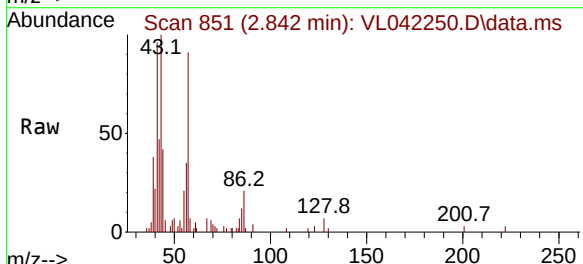
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B10-2-03312025

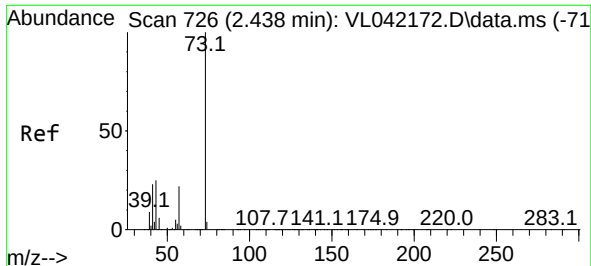
Tgt Ion: 43	Resp: 14171
Ion Ratio	Lower Upper
43 100	
45 17.5	8.2 12.2#
61 9.9	7.3 10.9
70 11.0	7.2 10.8#



#26
Hexane
Concen: 0.127 ppbv
RT: 2.842 min Scan# 851
Delta R.T. 0.019 min
Lab File: VL042250.D
Acq: 08 Apr 2025 01:17

Tgt Ion: 57	Resp: 3600
Ion Ratio	Lower Upper
57 100	
41 134.7	76.6 114.8#
43 415.9	207.8 311.8#
56 55.1	43.6 65.4

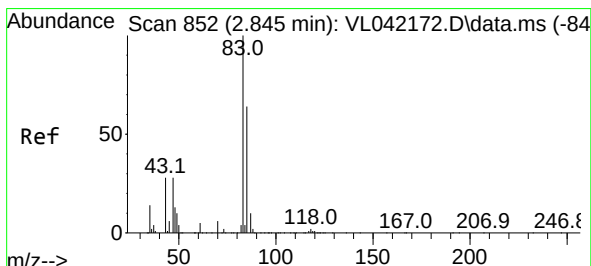
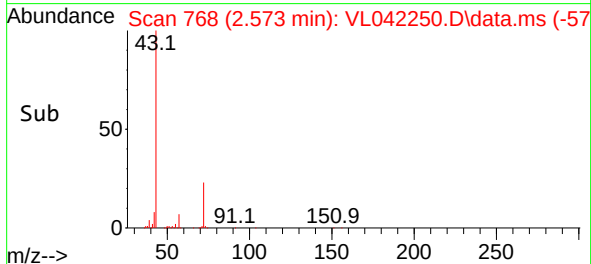
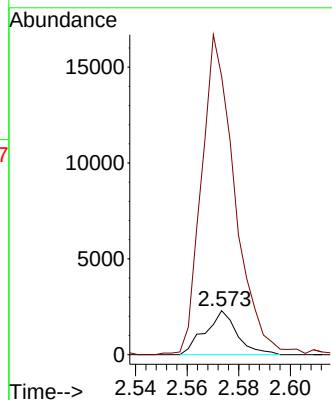
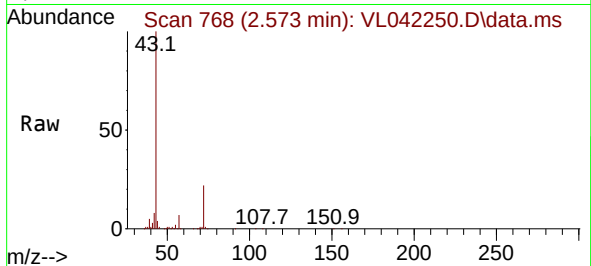




#28
Methyl tert-Butyl Ether
Concen: 0.111 ppbv
RT: 2.573 min Scan# 71
Delta R.T. 0.136 min
Lab File: VL042250.D
Acq: 08 Apr 2025 01:17

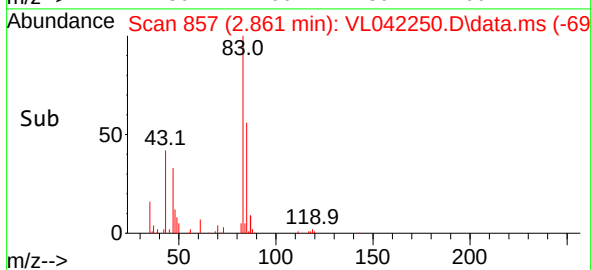
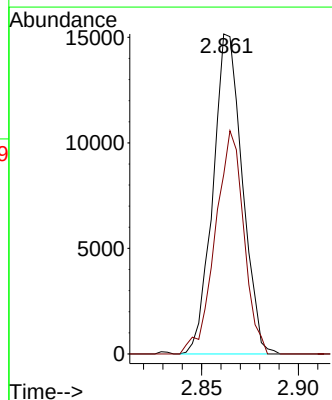
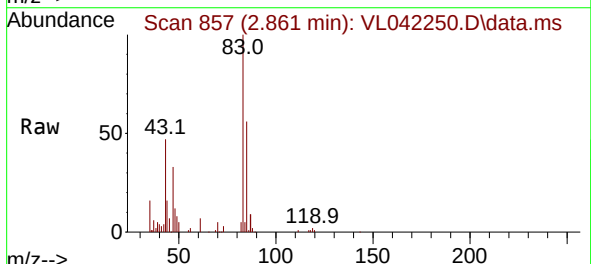
Instrument :
MSVOA_1
ClientSampleId :
SSSG-B10-2-03312025

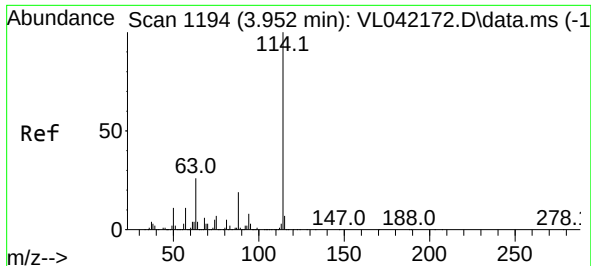
Tgt Ion: 73 Resp: 1970
Ion Ratio Lower Upper
73 100
57 763.5 20.5 30.7#



#29
Chloroform
Concen: 0.384 ppbv
RT: 2.861 min Scan# 857
Delta R.T. 0.016 min
Lab File: VL042250.D
Acq: 08 Apr 2025 01:17

Tgt Ion: 83 Resp: 15997
Ion Ratio Lower Upper
83 100
85 56.1 51.4 77.2





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.981 min Scan# 1194

Delta R.T. 0.029 min

Lab File: VL042250.D

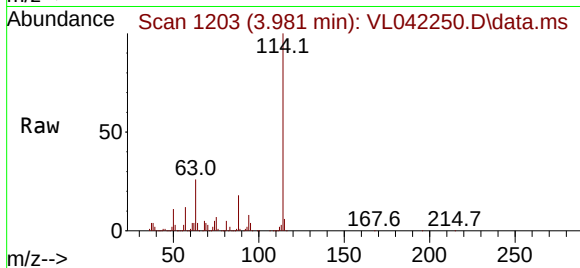
Acq: 08 Apr 2025 01:17

Instrument :

MSVOA_L

ClientSampleId :

SSSG-B10-2-03312025



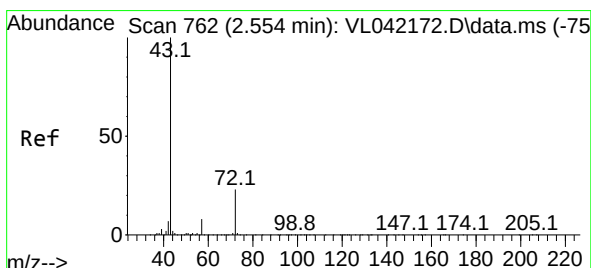
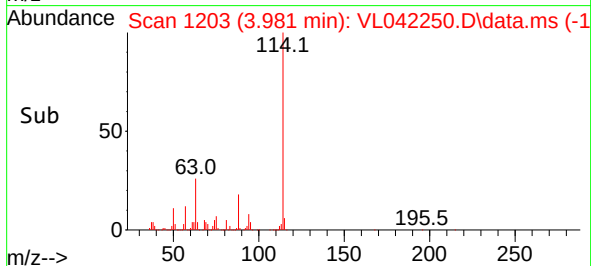
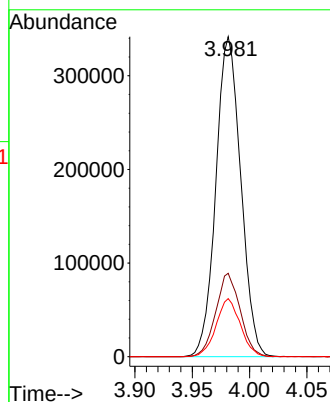
Tgt Ion:114 Resp: 515559

Ion Ratio Lower Upper

114 100

63 25.6 20.7 31.1

88 17.7 15.0 22.4



#34

2-Butanone

Concen: 5.479 ppbv

RT: 2.570 min Scan# 767

Delta R.T. 0.016 min

Lab File: VL042250.D

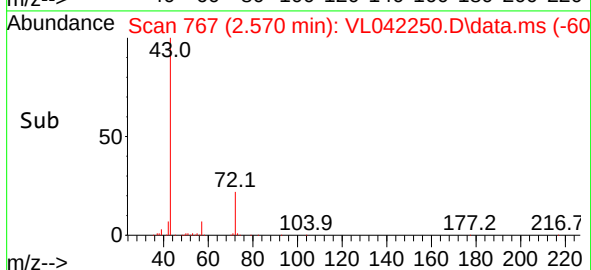
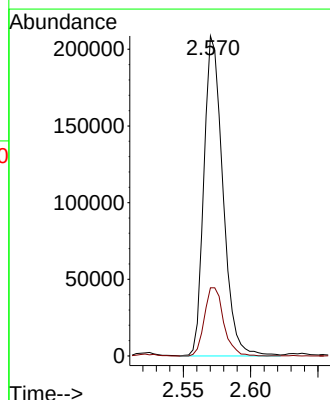
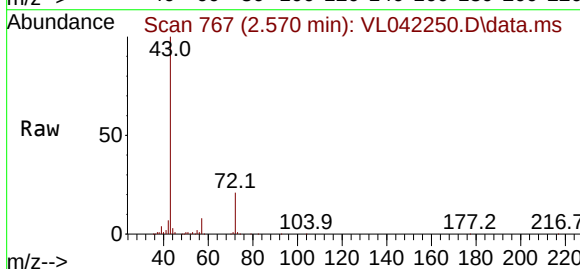
Acq: 08 Apr 2025 01:17

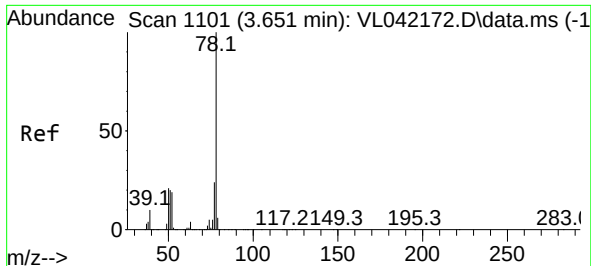
Tgt Ion: 43 Resp: 204814

Ion Ratio Lower Upper

43 100

72 21.6 18.2 27.2

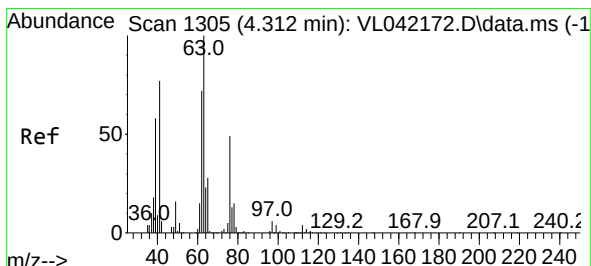
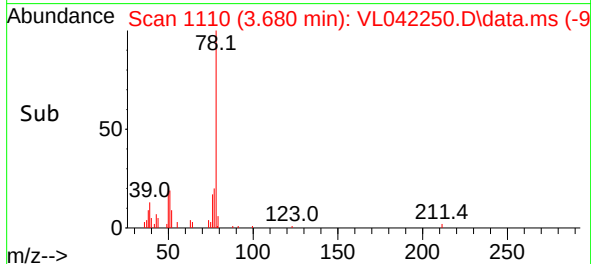
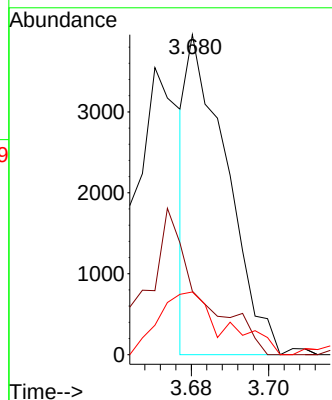
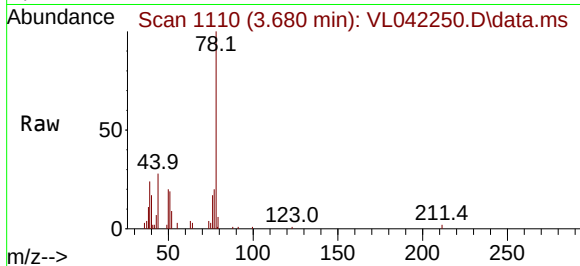




#36
Benzene
Concen: 0.055 ppbv
RT: 3.680 min Scan# 1101
Delta R.T. 0.029 min
Lab File: VL042250.D
Acq: 08 Apr 2025 01:17

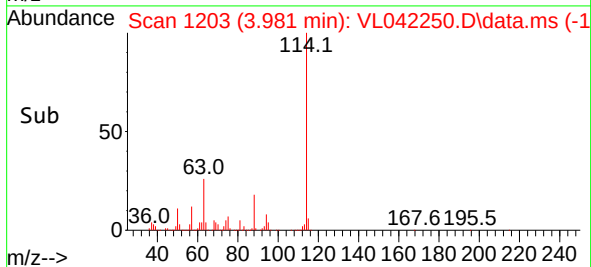
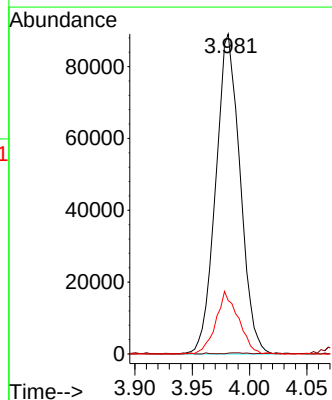
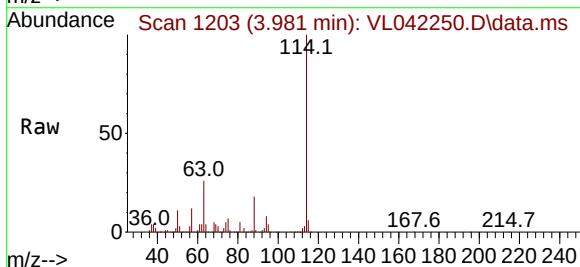
Instrument :
MSVOA_1
ClientSampleId :
SSSG-B10-2-03312025

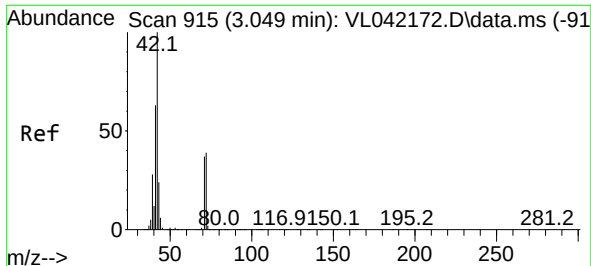
Tgt Ion: 78 Resp: 2795
Ion Ratio Lower Upper
78 100
77 19.9 19.1 28.7
50 19.6 16.6 24.8



#39
1,2-Dichloropropane
Concen: 7.075 ppbv
RT: 3.981 min Scan# 1203
Delta R.T. -0.330 min
Lab File: VL042250.D
Acq: 08 Apr 2025 01:17

Tgt Ion: 63 Resp: 131688
Ion Ratio Lower Upper
63 100
41 0.1 61.7 92.5#
62 16.7 57.6 86.4#





#41

Tetrahydrofuran

Concen: 0.060 ppbv

RT: 3.085 min Scan# 91

Delta R.T. 0.035 min

Lab File: VL042250.D

Acq: 08 Apr 2025 01:17

Instrument :

MSVOA_L

ClientSampleId :

SSSG-B10-2-03312025

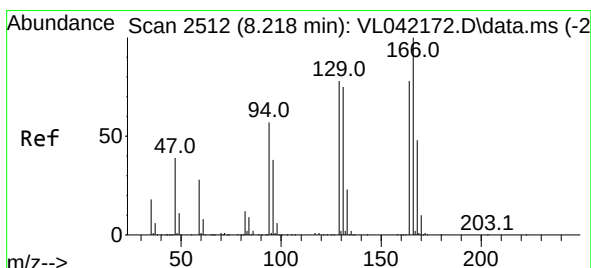
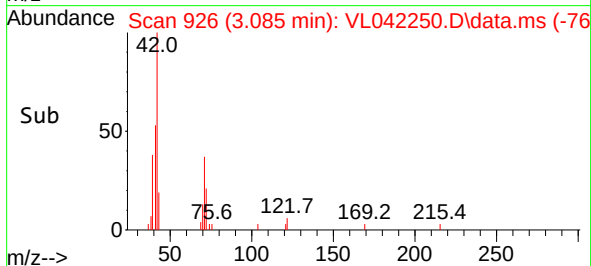
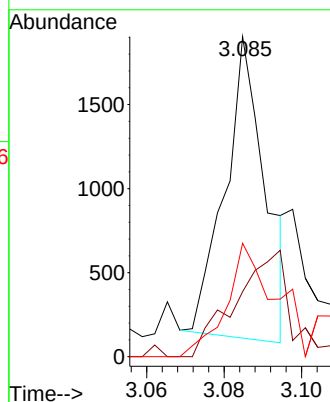
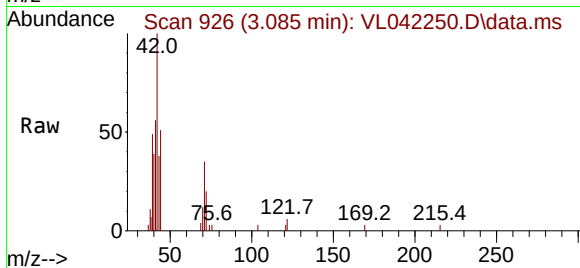
Tgt Ion: 42 Resp: 1288

Ion Ratio Lower Upper

42 100

72 0.0 31.4 47.0#

71 54.3 30.2 45.4#



#52

Tetrachloroethene

Concen: 0.784 ppbv

RT: 8.247 min Scan# 2521

Delta R.T. 0.029 min

Lab File: VL042250.D

Acq: 08 Apr 2025 01:17

Tgt Ion:164 Resp: 15893

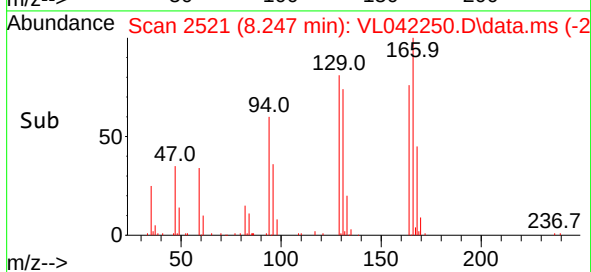
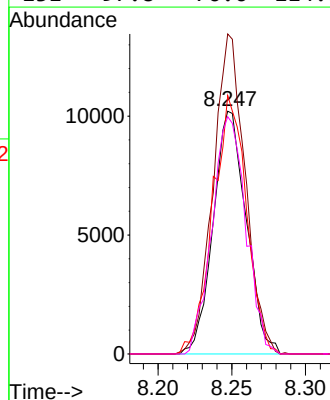
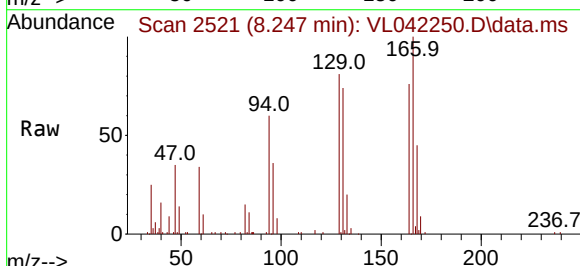
Ion Ratio Lower Upper

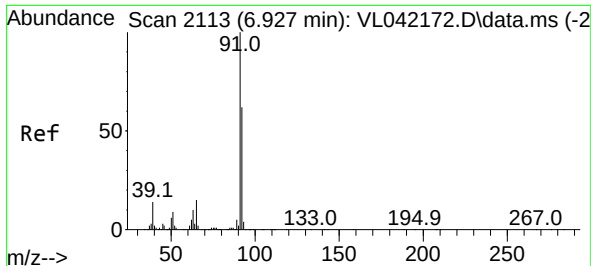
164 100

166 131.8 102.5 153.7

129 106.5 79.8 119.8

131 97.8 76.6 114.8

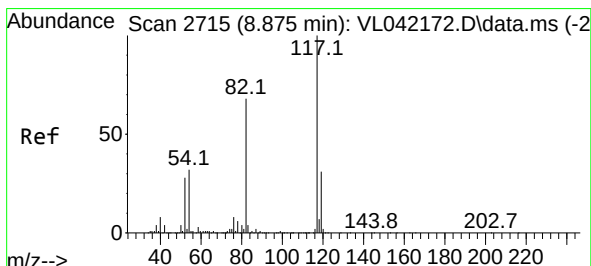
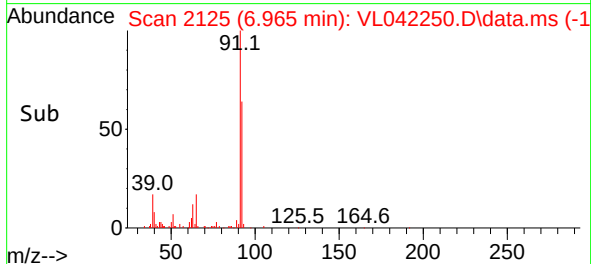
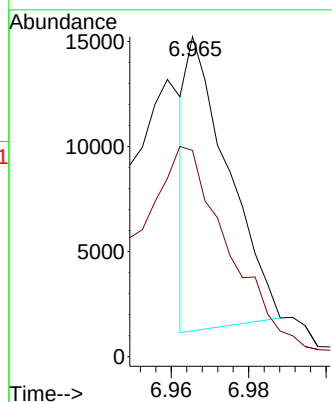
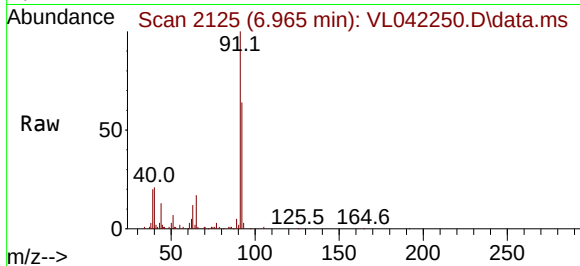




#53
Toluene
Concen: 0.169 ppbv
RT: 6.965 min Scan# 2113
Delta R.T. 0.039 min
Lab File: VL042250.D
Acq: 08 Apr 2025 01:17

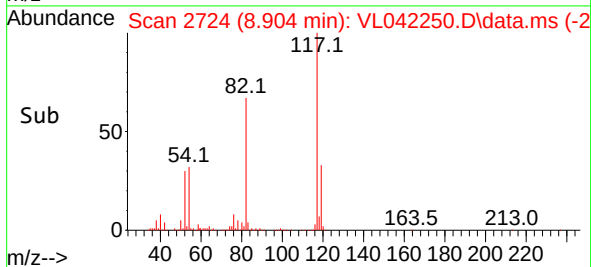
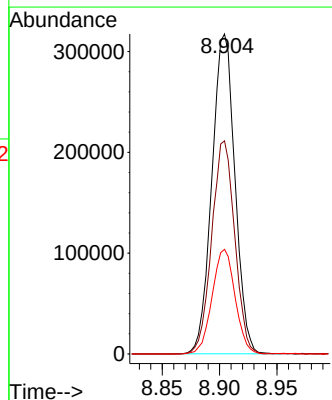
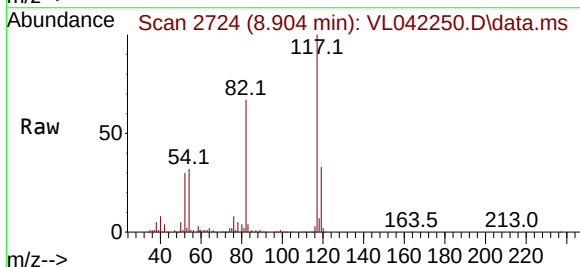
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B10-2-03312025

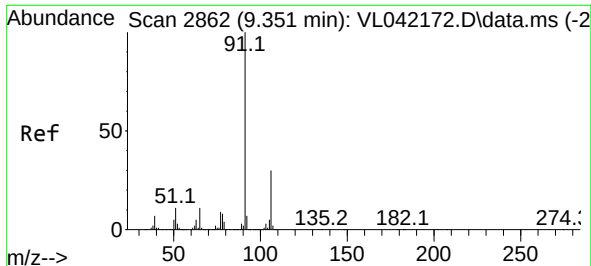
Tgt Ion: 91 Resp: 10220
Ion Ratio Lower Upper
91 100
92 0.0 48.4 72.6#



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.904 min Scan# 2724
Delta R.T. 0.029 min
Lab File: VL042250.D
Acq: 08 Apr 2025 01:17

Tgt Ion: 117 Resp: 442488
Ion Ratio Lower Upper
117 100
82 66.7 55.8 83.6
119 32.9 25.5 38.3

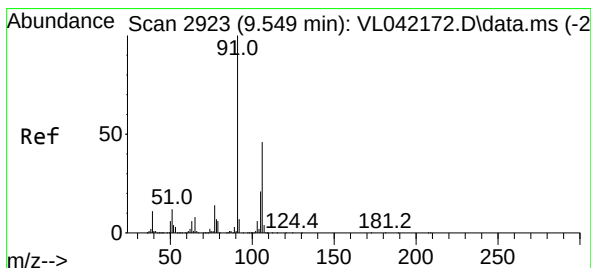
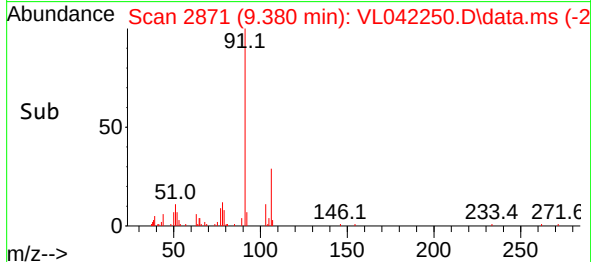
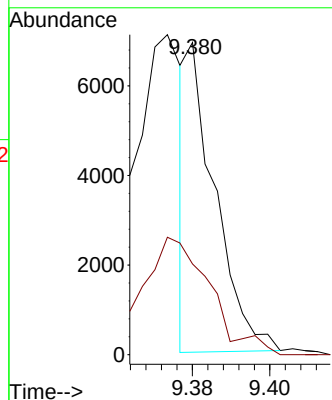
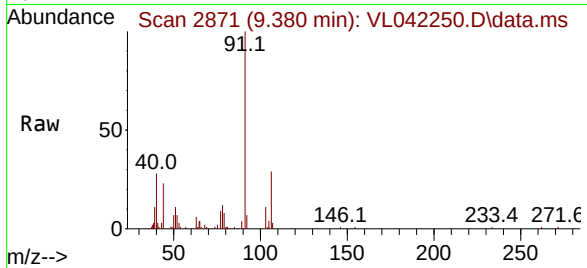




#58
Ethyl Benzene
Concen: 0.044 ppbv
RT: 9.380 min Scan# 21
Delta R.T. 0.029 min
Lab File: VL042250.D
Acq: 08 Apr 2025 01:17

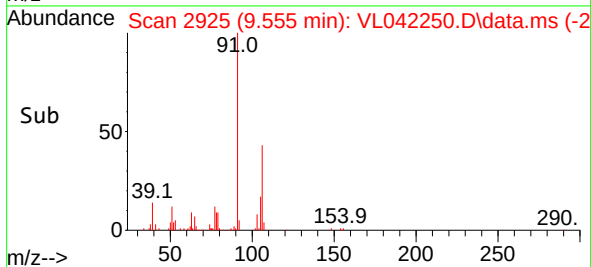
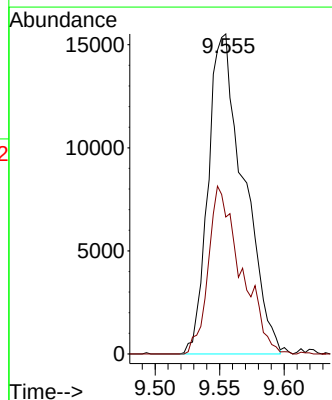
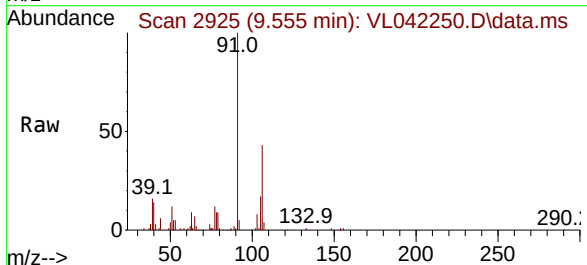
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B10-2-03312025

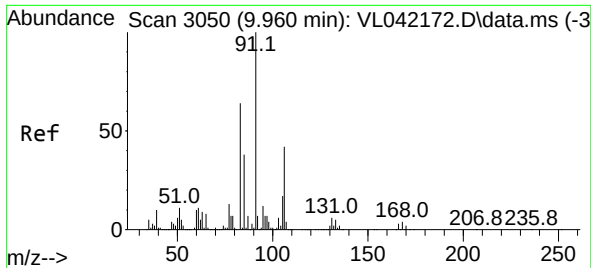
Tgt Ion: 91 Resp: 3497
Ion Ratio Lower Upper
91 100
106 29.5 24.2 36.2



#59
m/p-Xylene
Concen: 0.475 ppbv
RT: 9.555 min Scan# 2925
Delta R.T. 0.006 min
Lab File: VL042250.D
Acq: 08 Apr 2025 01:17

Tgt Ion: 91 Resp: 29838
Ion Ratio Lower Upper
91 100
106 48.5 36.4 54.6

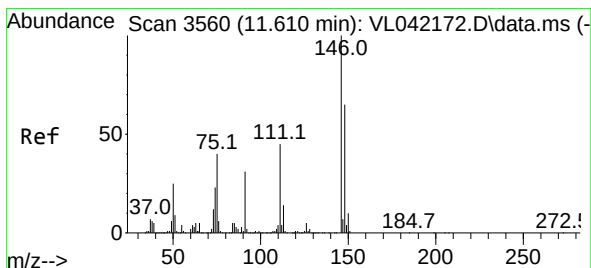
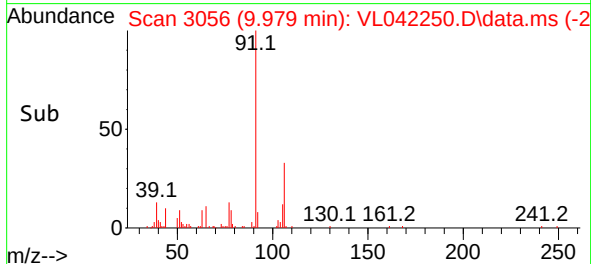
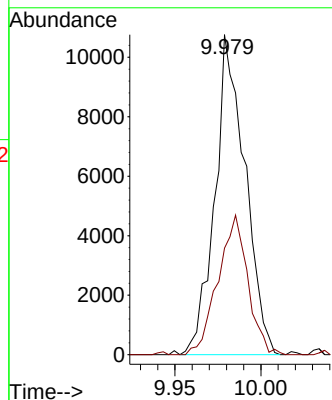
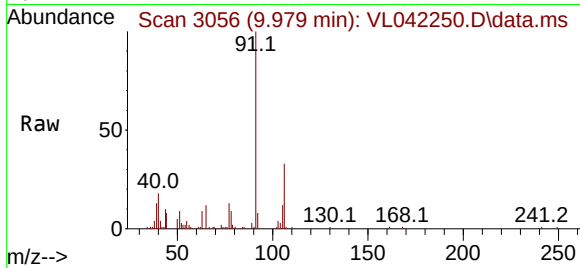




#60
o-Xylene
Concen: 0.208 ppbv
RT: 9.979 min Scan# 3050
Delta R.T. 0.019 min
Lab File: VL042250.D
Acq: 08 Apr 2025 01:17

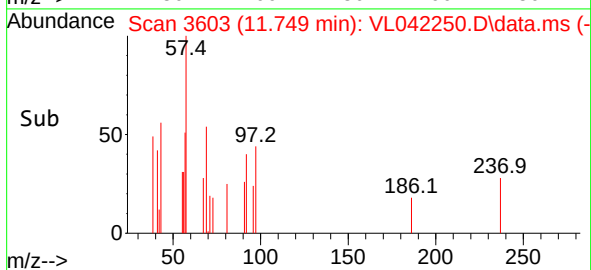
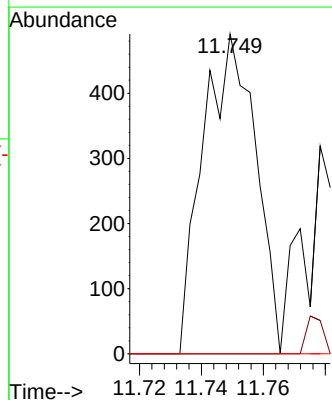
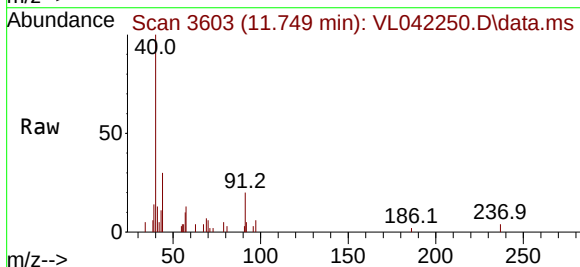
Instrument :
MSVOA_1
ClientSampleId :
SSSG-B10-2-03312025

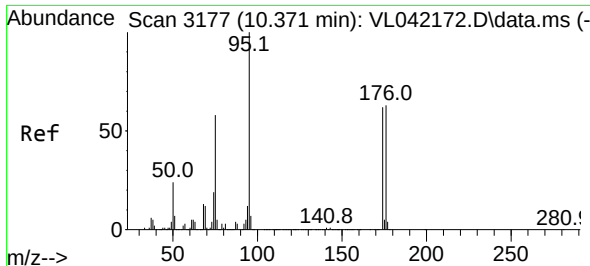
Tgt Ion: 91 Resp: 13109
Ion Ratio Lower Upper
91 100
106 43.1 20.8 62.5



#66
Benzyl Chloride
Concen: 0.063 ppbv
RT: 11.749 min Scan# 3603
Delta R.T. 0.139 min
Lab File: VL042250.D
Acq: 08 Apr 2025 01:17

Tgt Ion: 91 Resp: 580
Ion Ratio Lower Upper
91 100
126 18.4 13.8 20.6
128 0.0 4.5 6.7#

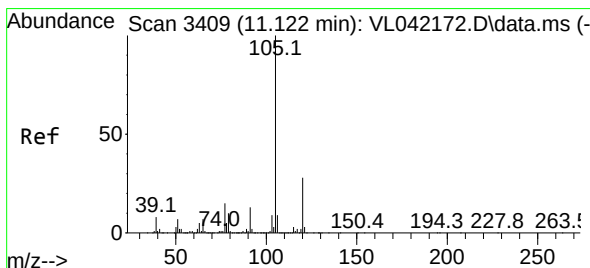
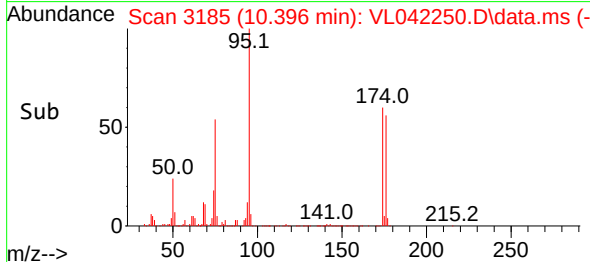
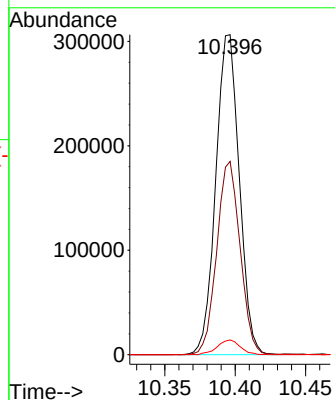
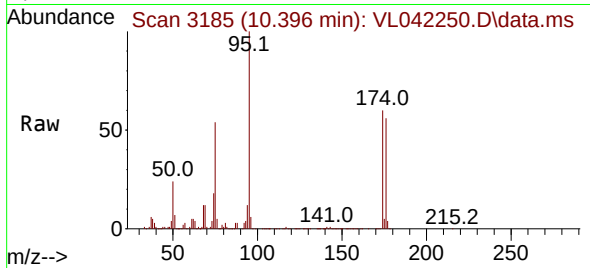




#68
1-Bromo-4-Fluorobenzene
Concen: 9.791 ppbv
RT: 10.396 min Scan# 3177
Delta R.T. 0.026 min
Lab File: VL042250.D
Acq: 08 Apr 2025 01:17

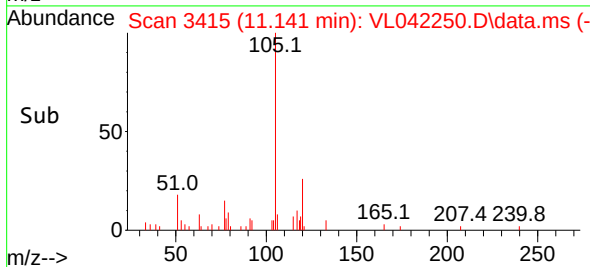
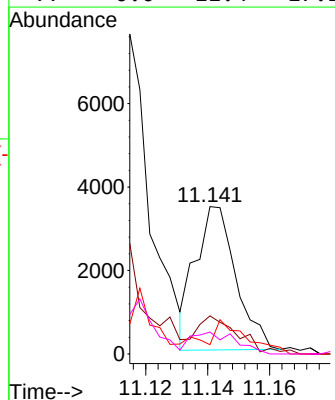
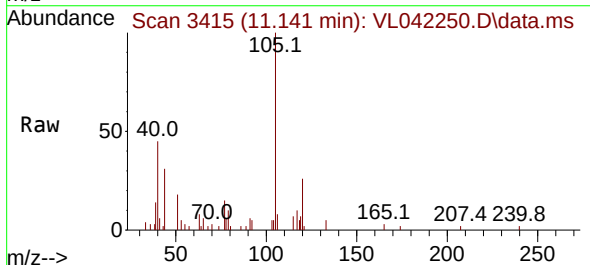
Instrument : MSVOA_L
ClientSampleId : SSSG-B10-2-03312025

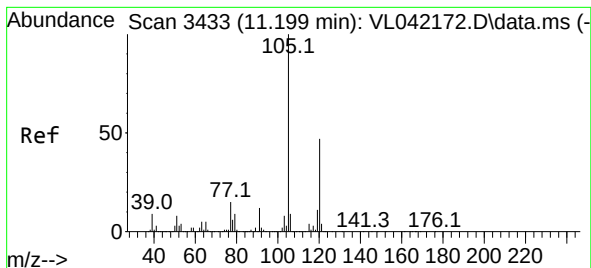
Tgt Ion: 95 Resp: 355772
Ion Ratio Lower Upper
95 100
174 60.1 50.6 76.0
175 4.5 3.8 5.6



#72
4-Ethyltoluene
Concen: 0.040 ppbv
RT: 11.141 min Scan# 3415
Delta R.T. 0.019 min
Lab File: VL042250.D
Acq: 08 Apr 2025 01:17

Tgt Ion: 105 Resp: 3131
Ion Ratio Lower Upper
105 100
120 0.0 23.4 35.0#
91 17.8 10.3 15.5#
77 0.0 11.4 17.2#





#73

1,3,5-Trimethylbenzene

Concen: 0.050 ppbv

RT: 11.222 min Scan# 3440

Delta R.T. 0.022 min

Lab File: VL042250.D

Acq: 08 Apr 2025 01:17

Instrument :

MSVOA_1

ClientSampleId :

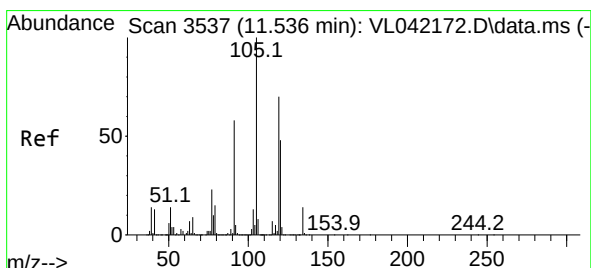
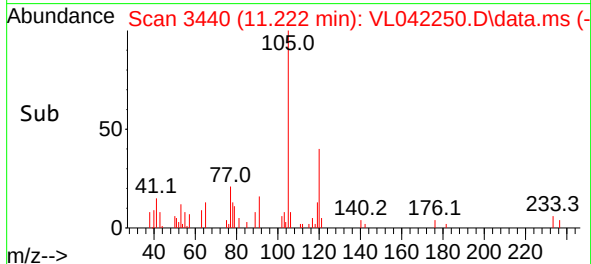
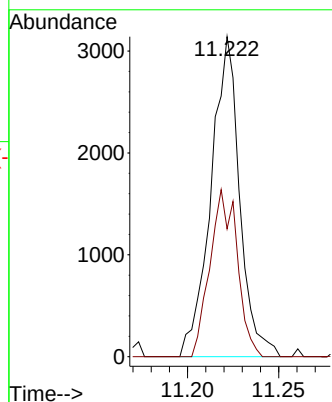
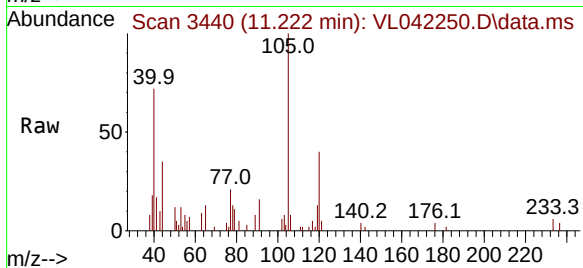
SSSG-B10-2-03312025

Tgt Ion:105 Resp: 3445

Ion Ratio Lower Upper

105 100

120 40.0 37.4 56.0



#74

1,2,4-Trimethylbenzene

Concen: 0.169 ppbv

RT: 11.552 min Scan# 3542

Delta R.T. 0.016 min

Lab File: VL042250.D

Acq: 08 Apr 2025 01:17

Tgt Ion:105 Resp: 13306

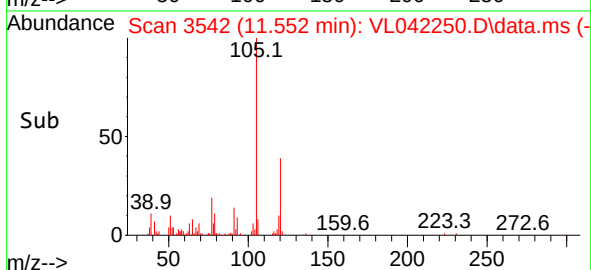
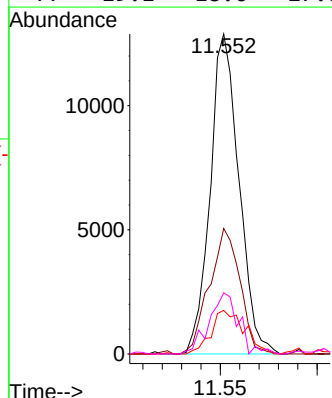
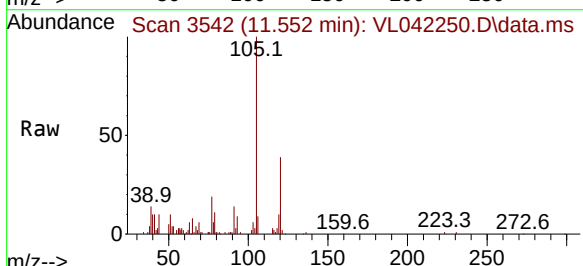
Ion Ratio Lower Upper

105 100

120 39.2 38.6 58.0

91 13.6 46.2 69.2#

77 19.1 18.6 27.8



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040725\
 Data File : VL042251.D
 Acq On : 08 Apr 2025 01:48
 Operator : SY/MD
 Sample : Q1725-08DL 10X
 Misc : 400mL/MSVOA_L
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SSSG-B10-2-03312025DL

Quant Time: Apr 08 04:49:19 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri Mar 28 02:00:52 2025
 Response via : Initial Calibration

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

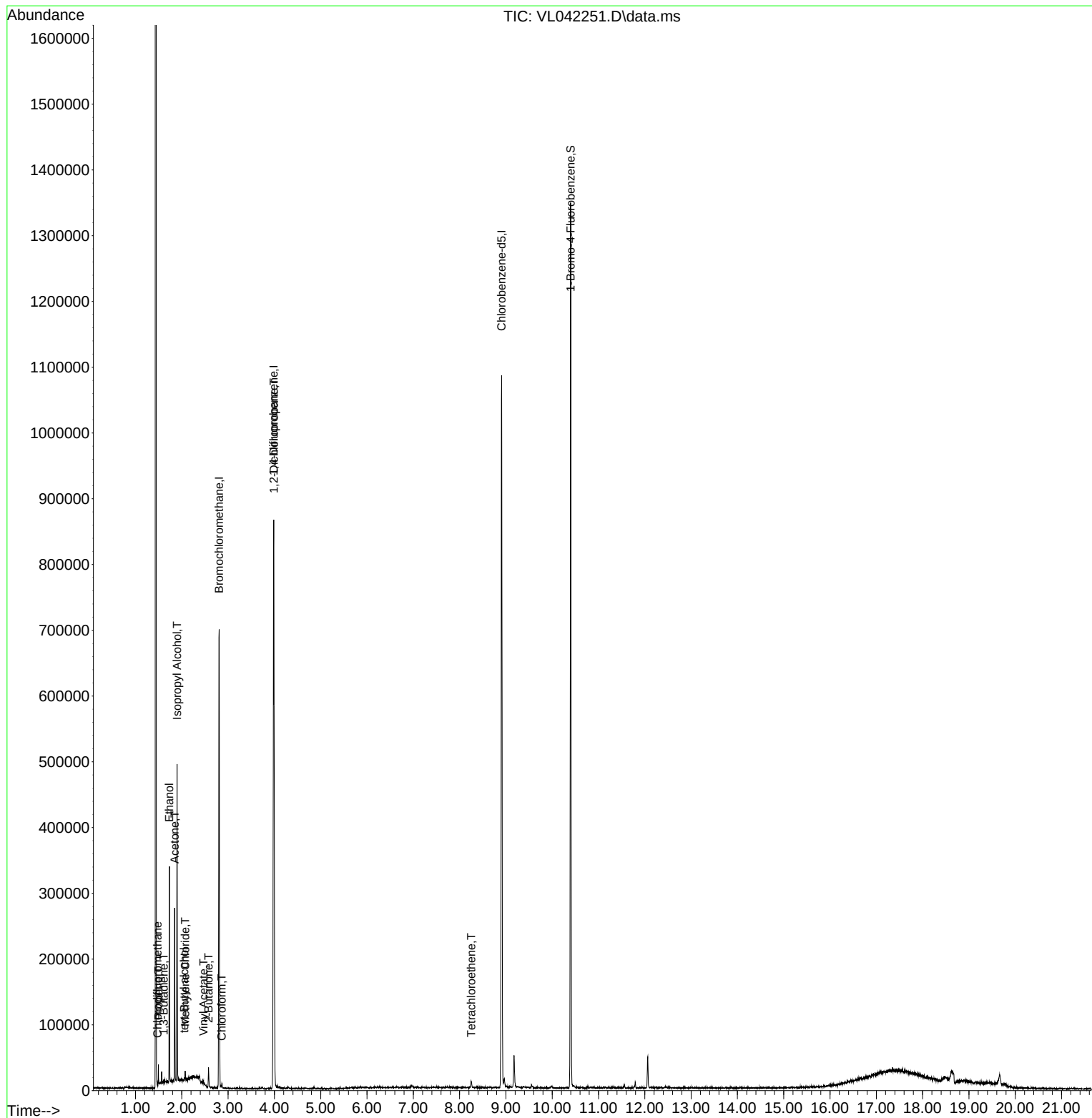
Internal Standards						
1) Bromochloromethane	2.803	49	194708	10.000	ppbv	0.02
33) 1,4-Difluorobenzene	3.985	114	494678	10.000	ppbv	0.03
55) Chlorobenzene-d5	8.907	117	424907	10.000	ppbv	0.03
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.396	95	324876	9.310	ppbv	0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	93.100%
Target Compounds						
					Qvalue	
3) Chlorodifluoromethane	1.473	51	1146	0.039	ppbv #	78
9) Propene	1.496	41	2943	0.219	ppbv	100
13) Ethanol	1.732	45	119090	93.585	ppbv	81
15) Acetone	1.845	43	109482	4.020	ppbv	96
16) 1,3-Butadiene	1.612	39	911	0.069	ppbv #	31
17) tert-Butyl alcohol	2.056	59	1323	0.039	ppbv #	76
19) Isopropyl Alcohol	1.897	45	196635	12.798	ppbv #	33
20) Methylene Chloride	2.072	84	1654	0.163	ppbv #	92
23) Vinyl Acetate	2.470	43	2030	0.172	ppbv #	81
29) Chloroform	2.861	83	1252	0.031	ppbv #	78
34) 2-Butanone	2.577	43	18789	0.524	ppbv	94
39) 1,2-Dichloropropane	3.988	63	125598	7.032	ppbv #	22
52) Tetrachloroethene	8.250	164	1122	0.058	ppbv	90

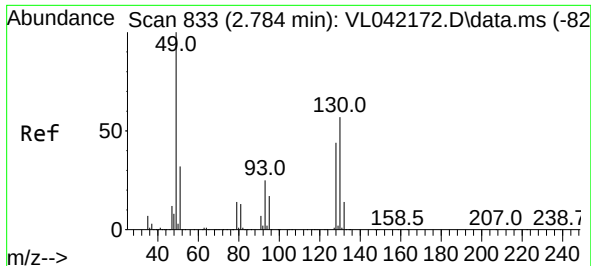
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040725\
Data File : VL042251.D
Acq On : 08 Apr 2025 01:48
Operator : SY/MD
Sample : Q1725-08DL 10X
Misc : 400mL/MSVOA_L
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
SSSG-B10-2-03312025DL

Quant Time: Apr 08 04:49:19 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Fri Mar 28 02:00:52 2025
Response via : Initial Calibration

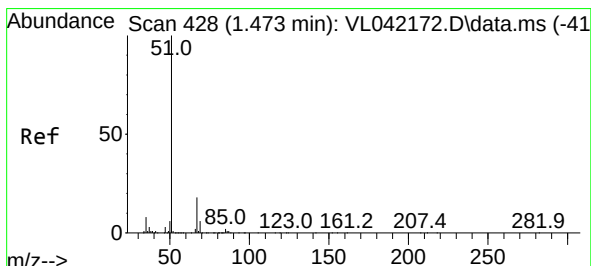
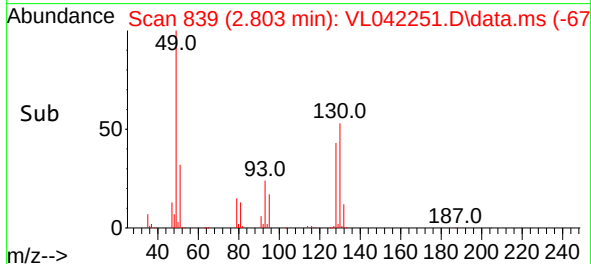
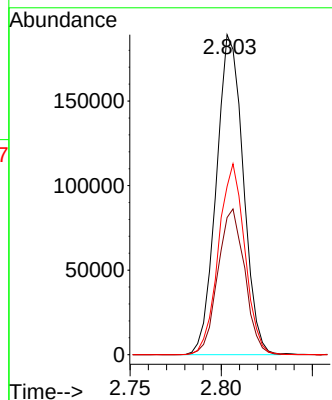
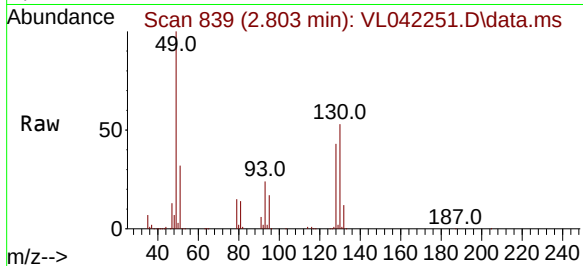




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.803 min Scan# 81
Delta R.T. 0.019 min
Lab File: VL042251.D
Acq: 08 Apr 2025 01:48

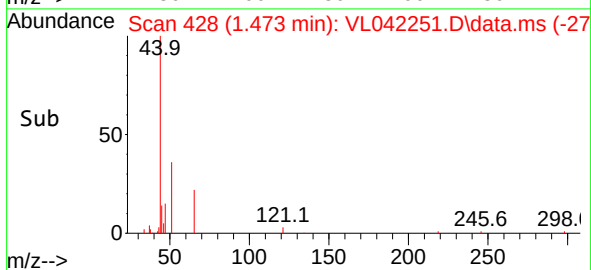
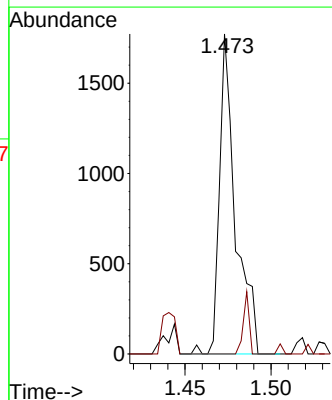
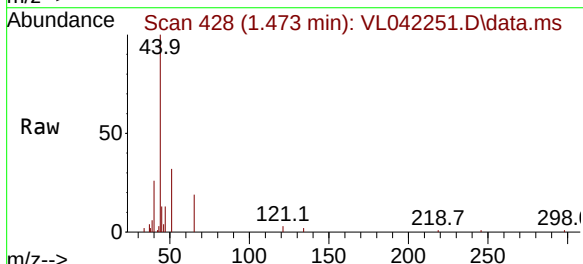
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B10-2-03312025DL

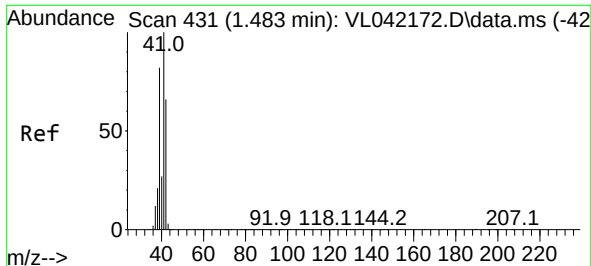
Tgt Ion: 49 Resp: 194708
Ion Ratio Lower Upper
49 100
128 45.4 22.9 68.5
130 58.3 28.8 86.4



#3
Chlorodifluoromethane
Concen: 0.039 ppbv
RT: 1.473 min Scan# 428
Delta R.T. -0.000 min
Lab File: VL042251.D
Acq: 08 Apr 2025 01:48

Tgt Ion: 51 Resp: 1146
Ion Ratio Lower Upper
51 100
67 8.9 15.0 22.6#





#9

Propene

Concen: 0.219 ppbv

RT: 1.496 min Scan# 41

Delta R.T. 0.013 min

Lab File: VL042251.D

Acq: 08 Apr 2025 01:48

Instrument :

MSVOA_L

ClientSampleId :

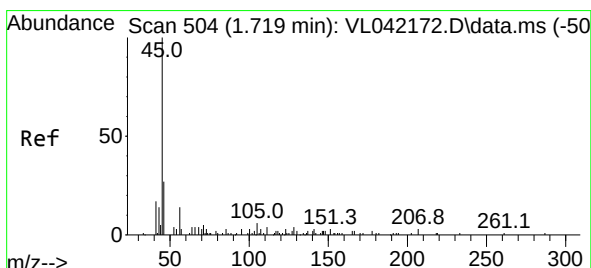
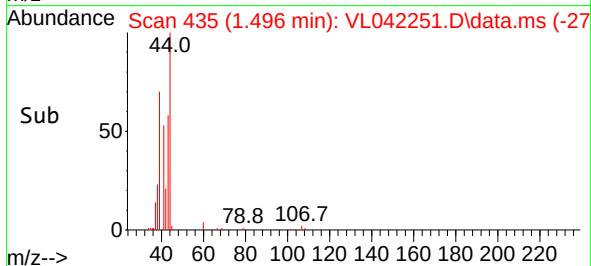
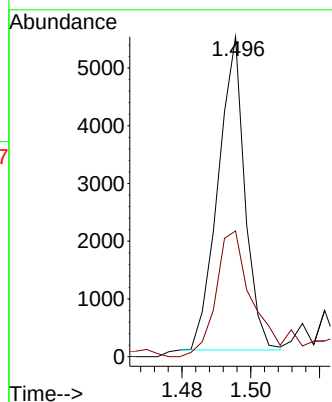
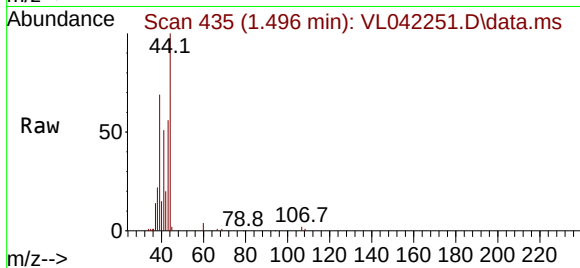
SSSG-B10-2-03312025DL

Tgt Ion: 41 Resp: 2943

Ion Ratio Lower Upper

41 100

42 69.3 55.4 83.2



#13

Ethanol

Concen: 93.585 ppbv

RT: 1.732 min Scan# 508

Delta R.T. 0.013 min

Lab File: VL042251.D

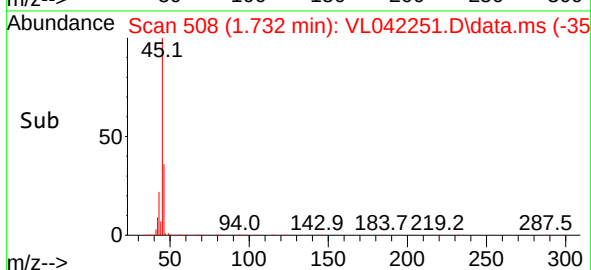
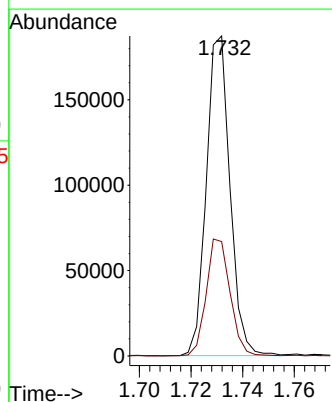
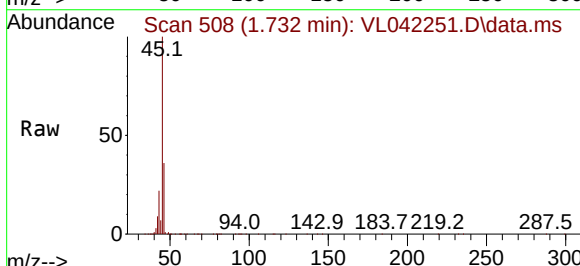
Acq: 08 Apr 2025 01:48

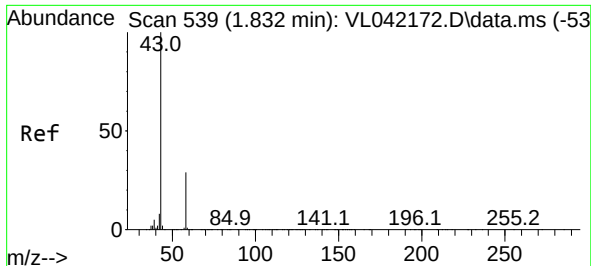
Tgt Ion: 45 Resp: 119090

Ion Ratio Lower Upper

45 100

46 37.3 20.2 80.8

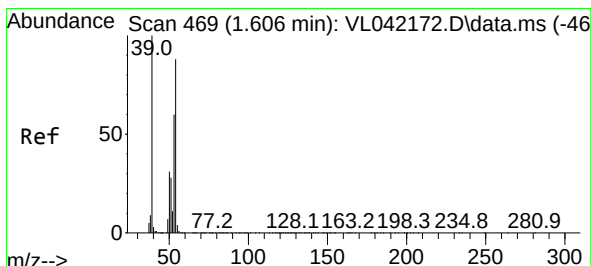
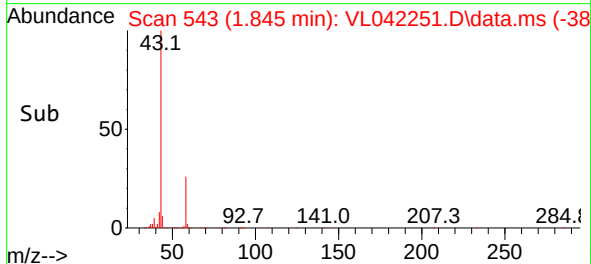
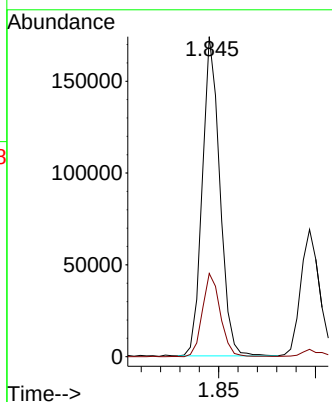
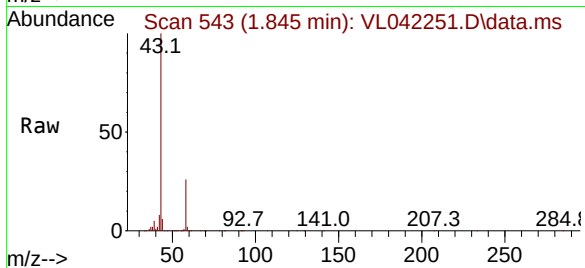




#15
Acetone
Concen: 4.020 ppbv
RT: 1.845 min Scan# 541
Delta R.T. 0.013 min
Lab File: VL042251.D
Acq: 08 Apr 2025 01:48

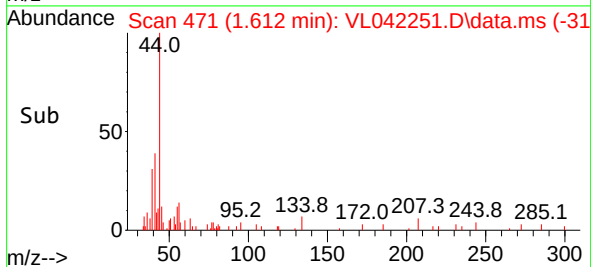
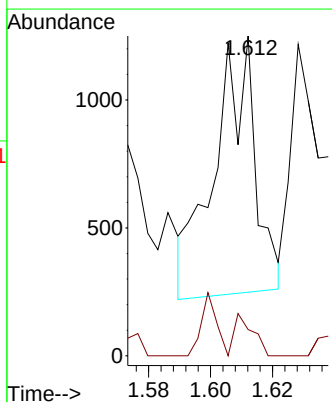
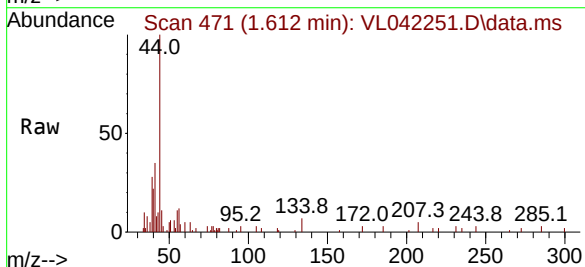
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B10-2-03312025DL

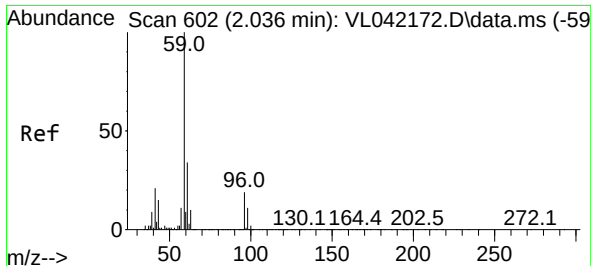
Tgt Ion: 43 Resp: 109482
Ion Ratio Lower Upper
43 100
58 26.8 23.2 34.8



#16
1,3-Butadiene
Concen: 0.069 ppbv
RT: 1.612 min Scan# 471
Delta R.T. 0.006 min
Lab File: VL042251.D
Acq: 08 Apr 2025 01:48

Tgt Ion: 39 Resp: 911
Ion Ratio Lower Upper
39 100
54 16.7 60.7 91.1#





#17

tert-Butyl alcohol

Concen: 0.039 ppbv

RT: 2.056 min Scan# 602

Delta R.T. 0.019 min

Lab File: VL042251.D

Acq: 08 Apr 2025 01:48

Instrument :

MSVOA_L

ClientSampleId :

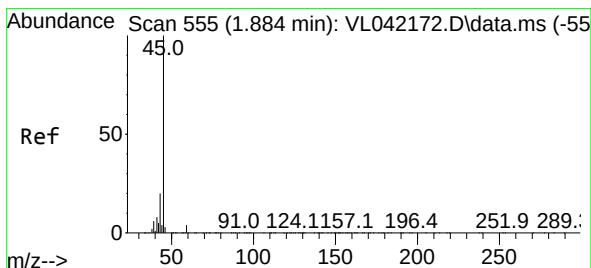
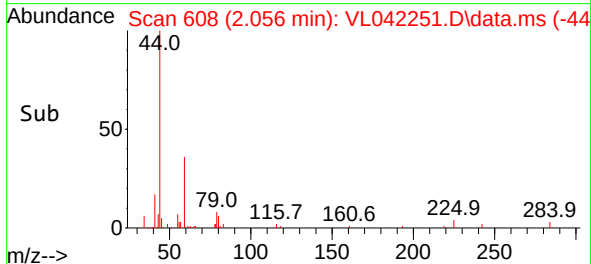
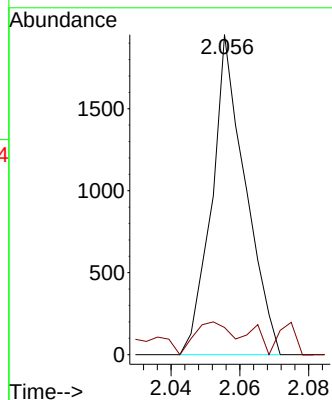
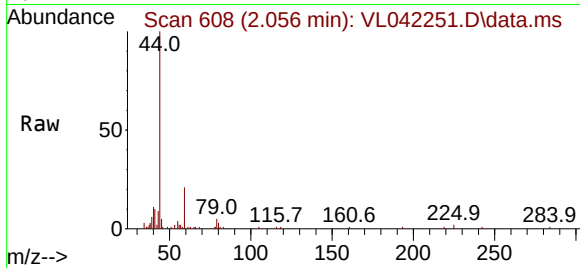
SSSG-B10-2-03312025DL

Tgt Ion: 59 Resp: 1323

Ion Ratio Lower Upper

59 100

57 20.4 8.9 13.3#



#19

Isopropyl Alcohol

Concen: 12.798 ppbv

RT: 1.897 min Scan# 559

Delta R.T. 0.013 min

Lab File: VL042251.D

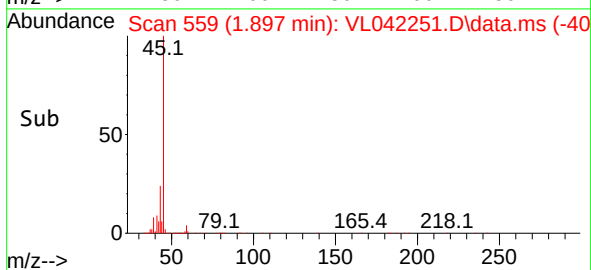
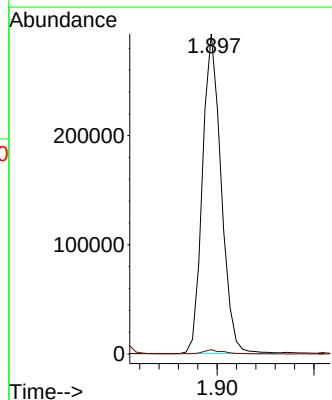
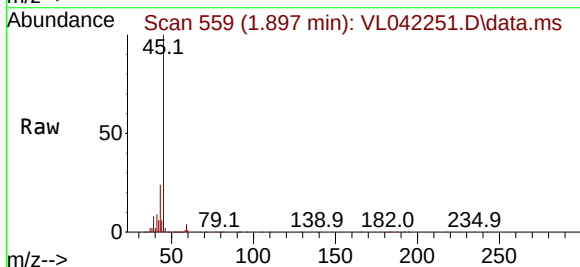
Acq: 08 Apr 2025 01:48

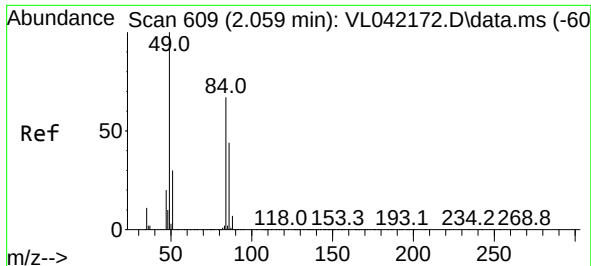
Tgt Ion: 45 Resp: 196635

Ion Ratio Lower Upper

45 100

58 1.5 36.9 55.3#

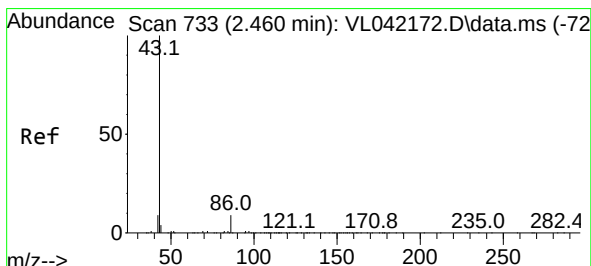
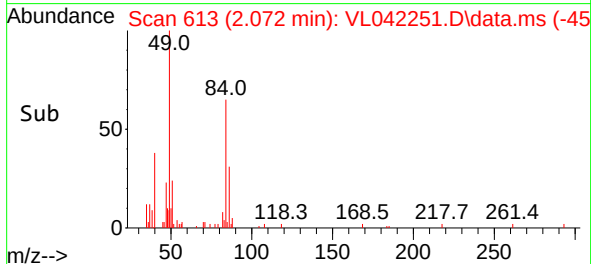
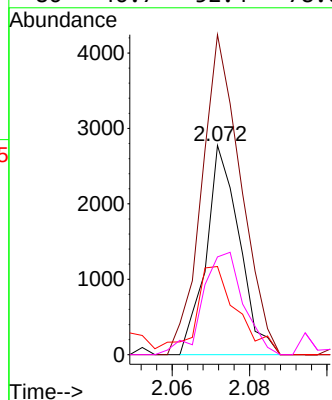
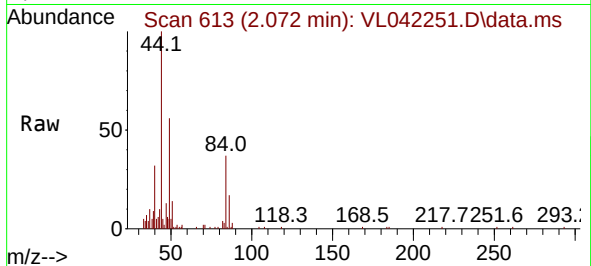




#20
Methylene Chloride
Concen: 0.163 ppbv
RT: 2.072 min Scan# 613
Delta R.T. 0.013 min
Lab File: VL042251.D
Acq: 08 Apr 2025 01:48

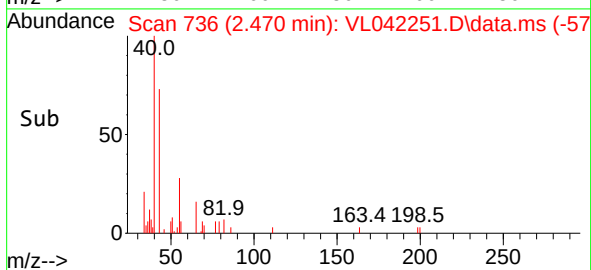
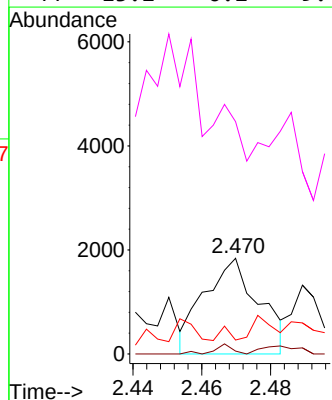
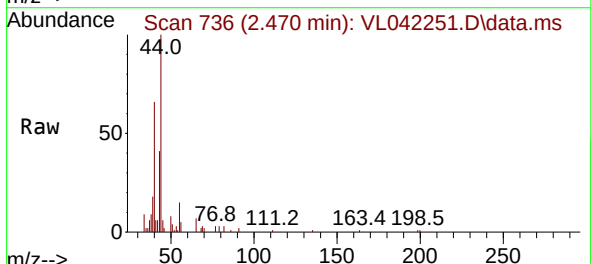
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B10-2-03312025DL

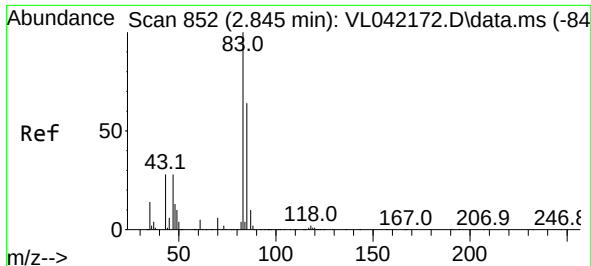
Tgt Ion:	84	Resp:	1654
Ion	Ratio	Lower	Upper
84	100		
49	152.9	120.2	180.4
51	42.1	37.4	56.0
86	46.7	52.4	78.6#



#23
Vinyl Acetate
Concen: 0.172 ppbv
RT: 2.470 min Scan# 736
Delta R.T. 0.010 min
Lab File: VL042251.D
Acq: 08 Apr 2025 01:48

Tgt Ion:	43	Resp:	2030
Ion	Ratio	Lower	Upper
43	100		
86	4.0	5.5	8.3#
42	0.0	8.6	13.0#
44	13.2	6.2	9.4#

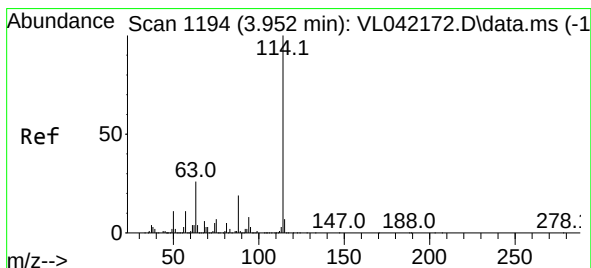
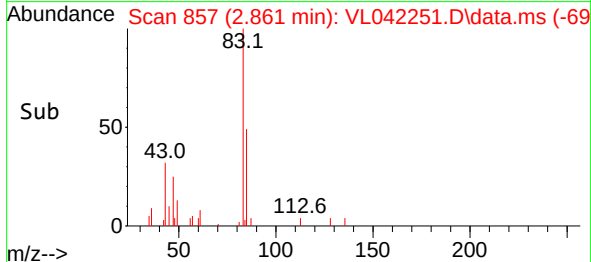
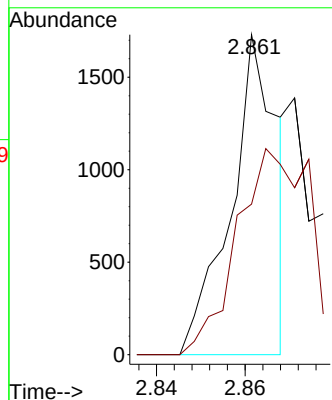
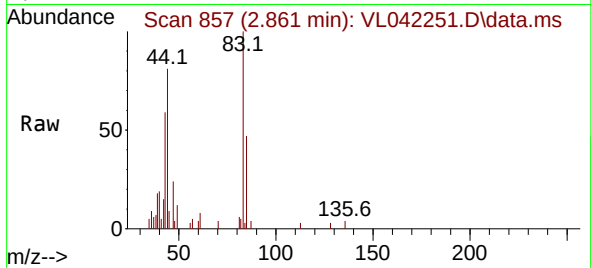




#29
Chloroform
Concen: 0.031 ppbv
RT: 2.861 min Scan# 81
Delta R.T. 0.016 min
Lab File: VL042251.D
Acq: 08 Apr 2025 01:48

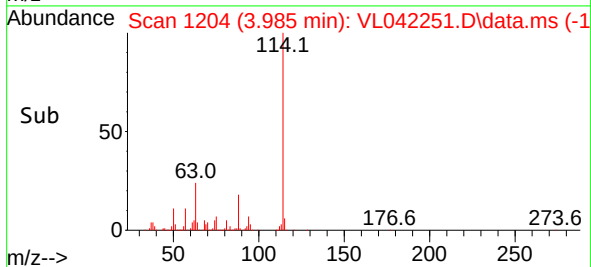
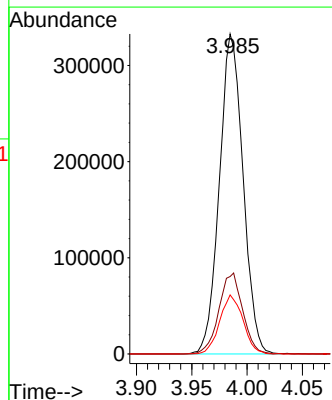
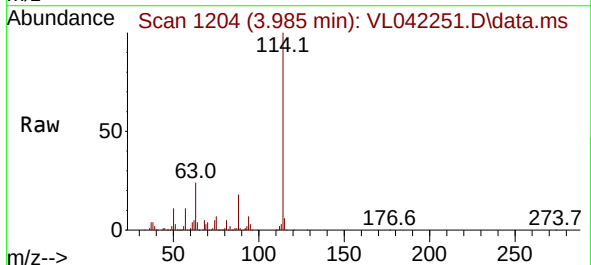
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B10-2-03312025DL

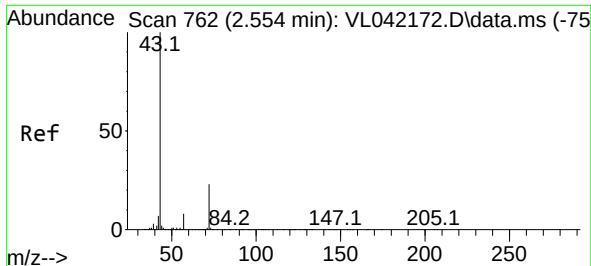
Tgt Ion: 83 Resp: 1252
Ion Ratio Lower Upper
83 100
85 47.1 51.4 77.2#



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.985 min Scan# 1204
Delta R.T. 0.032 min
Lab File: VL042251.D
Acq: 08 Apr 2025 01:48

Tgt Ion: 114 Resp: 494678
Ion Ratio Lower Upper
114 100
63 25.5 20.7 31.1
88 18.1 15.0 22.4

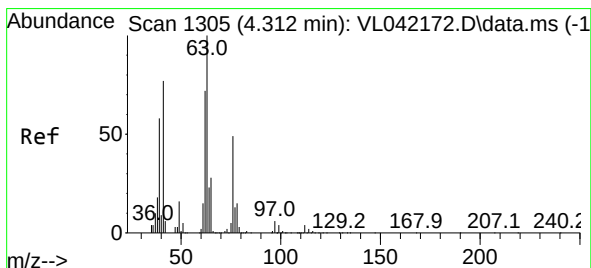
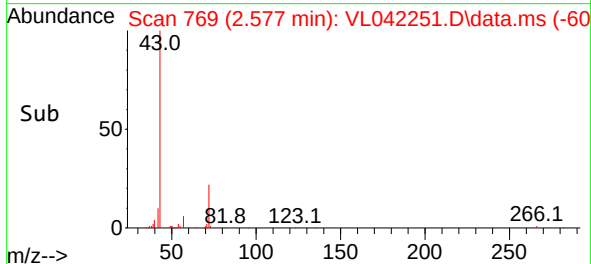
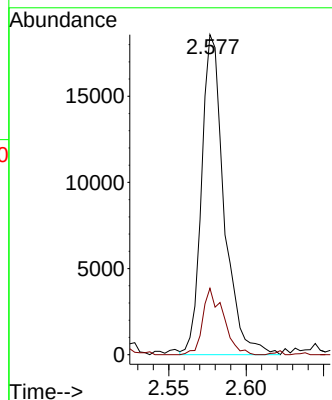
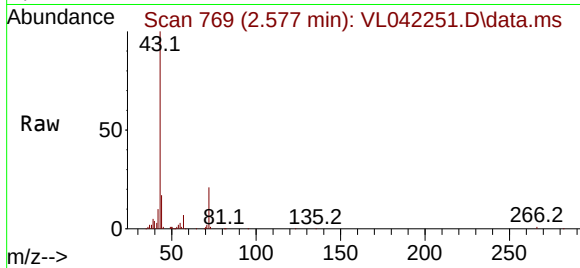




#34
2-Butanone
Concen: 0.524 ppbv
RT: 2.577 min Scan# 769
Delta R.T. 0.022 min
Lab File: VL042251.D
Acq: 08 Apr 2025 01:48

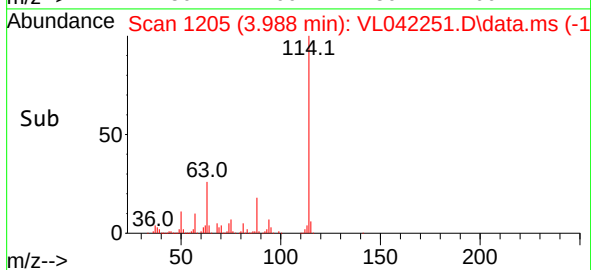
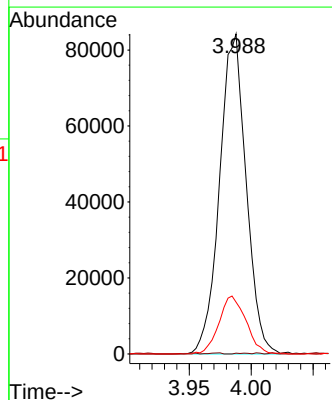
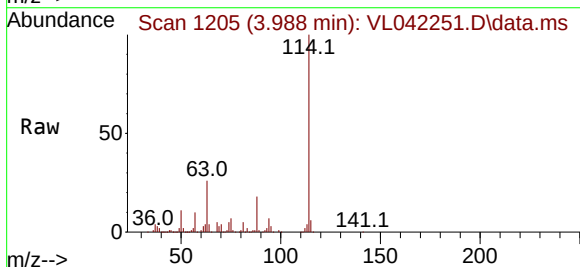
Instrument :
MSVOA_1
ClientSampleId :
SSSG-B10-2-03312025DL

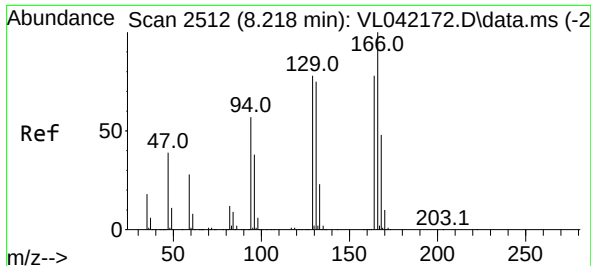
Tgt Ion: 43 Resp: 18789
Ion Ratio Lower Upper
43 100
72 19.6 18.2 27.2



#39
1,2-Dichloropropane
Concen: 7.032 ppbv
RT: 3.988 min Scan# 1205
Delta R.T. -0.324 min
Lab File: VL042251.D
Acq: 08 Apr 2025 01:48

Tgt Ion: 63 Resp: 125598
Ion Ratio Lower Upper
63 100
41 0.2 61.7 92.5#
62 16.2 57.6 86.4#

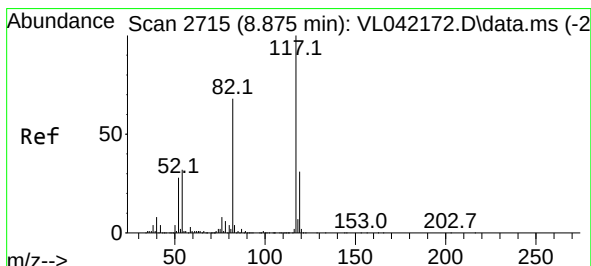
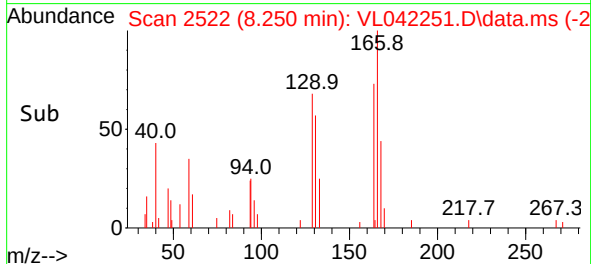
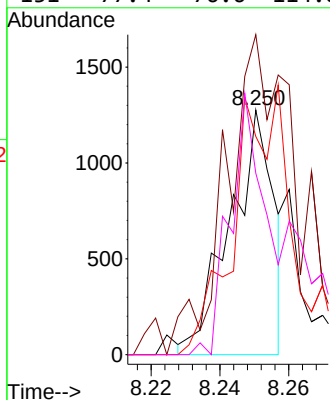
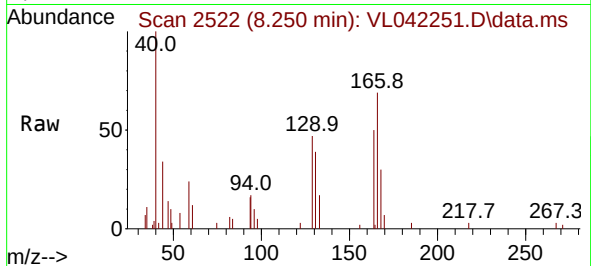




#52
Tetrachloroethene
Concen: 0.058 ppbv
RT: 8.250 min Scan# 2122
Delta R.T. 0.032 min
Lab File: VL042251.D
Acq: 08 Apr 2025 01:48

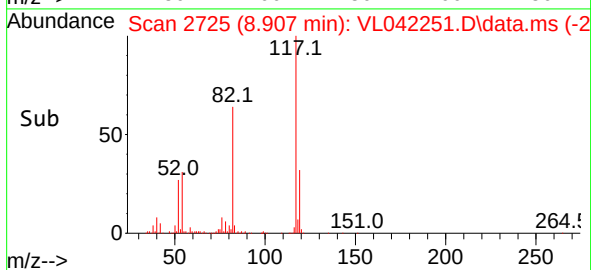
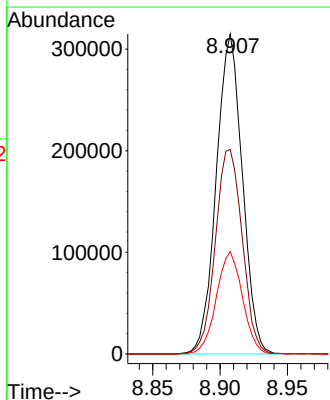
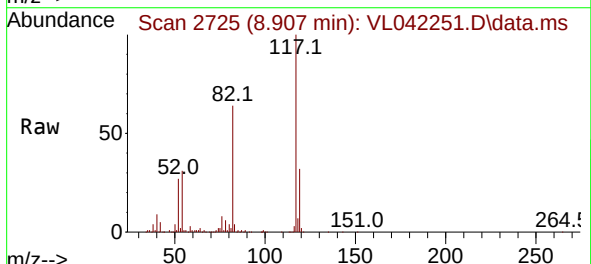
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B10-2-03312025DL

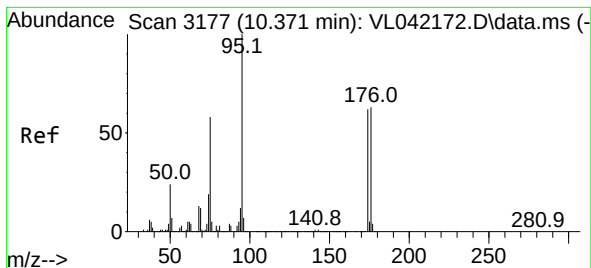
Tgt Ion:164	Resp:	1122	
Ion	Ratio	Lower	Upper
164	100		
166	120.3	102.5	153.7
129	93.0	79.8	119.8
131	77.4	76.6	114.8



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.907 min Scan# 2725
Delta R.T. 0.032 min
Lab File: VL042251.D
Acq: 08 Apr 2025 01:48

Tgt Ion:117	Resp:	424907	
Ion	Ratio	Lower	Upper
117	100		
82	65.9	55.8	83.6
119	32.0	25.5	38.3





#68

1-Bromo-4-Fluorobenzene

Concen: 9.310 ppbv

RT: 10.396 min Scan# 31

Delta R.T. 0.026 min

Lab File: VL042251.D

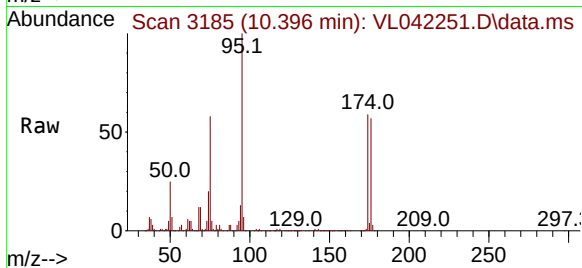
Acq: 08 Apr 2025 01:48

Instrument :

MSVOA_L

ClientSampleId :

SSSG-B10-2-03312025DL



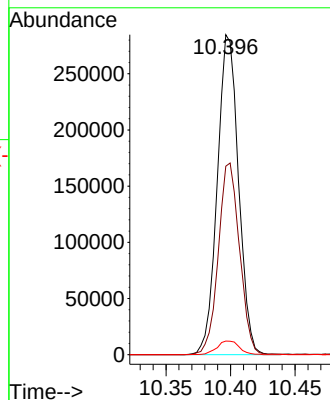
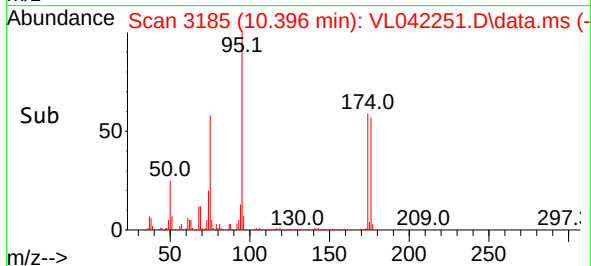
Tgt Ion: 95 Resp: 324876

Ion Ratio Lower Upper

95 100

174 60.1 50.6 76.0

175 4.5 3.8 5.6



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040825\
 Data File : VL042253.D
 Acq On : 08 Apr 2025 08:39
 Operator : SY/MD
 Sample : VSTDC0010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDC0010

Quant Time: Apr 09 01:50:44 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri Mar 28 02:00:52 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.800	49	192748	10.000	ppbv	0.02
33) 1,4-Difluorobenzene	3.981	114	496271	10.000	ppbv	0.03
55) Chlorobenzene-d5	8.904	117	446954	10.000	ppbv	0.03

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.393	95	366722	9.991	ppbv	0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.900%

Target Compounds				Qvalue		
2) Dichlorodifluoromethane	1.505	85	273431	9.608	ppbv	99
3) Chlorodifluoromethane	1.483	51	290289	9.985	ppbv	99
4) Chloromethane	1.538	50	113157	9.729	ppbv	98
5) Vinyl Chloride	1.586	62	106450	8.637	ppbv	94
6) Bromomethane	1.674	94	47897	9.087	ppbv	99
7) Chloroethane	1.712	64	43021	9.215	ppbv	100
8) Dichlorotetrafluoroethane	1.560	85	231550	9.554	ppbv	93
9) Propene	1.489	41	107995	8.104	ppbv	98
10) Heptane	5.011	43	334651	9.441	ppbv	99
11) Trichlorofluoromethane	1.884	101	263560	9.518	ppbv	100
12) 1,1,2-Trichlorotrifluo...	2.149	101	204093	8.967	ppbv	96
13) Ethanol	1.729	45	5903	4.686	ppbv	92
14) Bromoethene	1.790	108	73578	8.438	ppbv	99
15) Acetone	1.842	43	233895	8.677	ppbv	96
16) 1,3-Butadiene	1.615	39	113699	8.637	ppbv	97
17) tert-Butyl alcohol	2.049	59	264061	7.865	ppbv	98
18) 1,1-Dichloroethene	2.043	96	89526	8.414	ppbv	96
19) Isopropyl Alcohol	1.894	45	131605	8.653	ppbv	98
20) Methylene Chloride	2.072	84	78560	7.825	ppbv	96
21) Allyl Chloride	2.107	41	163305	8.590	ppbv	98
22) trans-1,2-Dichloroethene	2.353	96	106297	8.643	ppbv	98
23) Vinyl Acetate	2.476	43	96990	8.313	ppbv #	97
24) 1,1-Dichloroethane	2.421	63	214800	9.422	ppbv	98
25) Ethyl Acetate	2.852	43	678925	9.704	ppbv	99
26) Hexane	2.839	57	257513	9.529	ppbv	97
27) Carbon Disulfide	2.159	76	253909	8.762	ppbv	98
28) Methyl tert-Butyl Ether	2.454	73	135921	8.078	ppbv	97
29) Chloroform	2.861	83	407591	10.306	ppbv	98
30) Cyclohexane	3.878	84	207216	8.831	ppbv	98
31) cis-1,2-Dichloroethene	2.735	61	249595	9.098	ppbv	95
32) 1,1,1-Trichloroethane	3.386	97	403665	8.915	ppbv	97
34) 2-Butanone	2.570	43	375791	10.443	ppbv	99
35) Carbon Tetrachloride	3.784	117	423863	10.934	ppbv	99
36) Benzene	3.677	78	514967	10.467	ppbv	98
37) 1,2-Dichloroethane	3.237	62	313194	11.119	ppbv	99
38) Trichloroethene	4.574	130	205933	10.032	ppbv	96
39) 1,2-Dichloropropane	4.341	63	188150	10.501	ppbv	93
40) 1,4-Dioxane	4.613	88	89479	9.409	ppbv #	96
41) Tetrahydrofuran	3.072	42	208736	10.073	ppbv	96
42) Bromodichloromethane	4.515	83	436058	11.230	ppbv	98
43) Methyl Methacrylate	4.910	69	193449	9.288	ppbv	99
44) 2,2,4-Trimethylpentane	4.664	57	888509	10.687	ppbv	97
45) t-1,3-Dichloropropene	6.451	75	184866	8.273	ppbv	93

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040825\
 Data File : VL042253.D
 Acq On : 08 Apr 2025 08:39
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

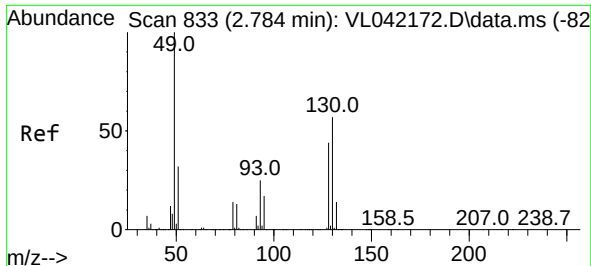
Quant Time: Apr 09 01:50:44 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri Mar 28 02:00:52 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.635	75	243227	8.880	ppbv	97
47) 1,1,2-Trichloroethane	6.613	97	208553	11.011	ppbv	99
48) Dibromochloromethane	7.415	129	346117	10.783	ppbv	99
49) Bromoform	9.503	173	299582	10.395	ppbv	99
50) 4-Methyl-2-Pentanone	5.787	43	542853	9.519	ppbv	96
51) 2-Hexanone	7.464	43	433929	9.266	ppbv #	96
52) Tetrachloroethene	8.247	164	172915	8.862	ppbv	94
53) Toluene	6.962	91	574664	9.853	ppbv	98
54) 1,2-Dibromoethane	7.681	107	281436	10.659	ppbv	96
56) 1,1,1,2-Tetrachloroethane	8.946	131	286554	11.647	ppbv	99
57) Chlorobenzene	8.943	112	483780	11.411	ppbv	97
58) Ethyl Benzene	9.377	91	831947	10.479	ppbv	99
59) m/p-Xylene	9.571	91	687151	10.839	ppbv #	24
60) o-Xylene	9.982	91	696371	10.958	ppbv	97
61) Styrene	9.891	104	313307	9.965	ppbv	99
62) Isopropylbenzene	10.558	105	1044218	10.988	ppbv	99
63) 1,1,2,2-Tetrachloroethane	9.982	83	460968	11.938	ppbv	99
64) n-propylbenzene	11.005	120	279848	11.439	ppbv	98
65) tert-Butylbenzene	11.549	119	945232	10.755	ppbv	100
66) Benzyl Chloride	11.633	91	65203	6.992	ppbv	98
67) sec-Butylbenzene	11.785	105	1343060	10.994	ppbv	100
69) p-Isopropyltoluene	11.940	119	1144759	10.882	ppbv	100
70) n-Butylbenzene	12.296	91	1194481	11.103	ppbv	99
71) 2-Chlorotoluene	10.918	91	806572	10.935	ppbv	99
72) 4-Ethyltoluene	11.141	105	885452	11.190	ppbv	99
73) 1,3,5-Trimethylbenzene	11.222	105	765708	11.080	ppbv	99
74) 1,2,4-Trimethylbenzene	11.555	105	848667	10.660	ppbv	99
75) 1,3-Dichlorobenzene	11.626	146	505824	11.584	ppbv	99
76) 1,4-Dichlorobenzene	11.688	146	505562	11.634	ppbv	99
77) 1,2-Dichlorobenzene	11.963	146	503274	11.837	ppbv	99
78) Hexachloro-1,3-Butadiene	13.895	225	399147	9.223	ppbv	99
79) Naphthalene	13.529	128	967317	11.108	ppbv	99
80) Naphthalene,2-methyl-	14.475	142	457943	10.723	ppbv	98
81) 1,2,4-Trichlorobenzene	13.455	180	425466	10.592	ppbv	99

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

Quant Time: Apr 09 01:50:44 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Mar 28 02:00:52 2025
Response via : Initial Calibration

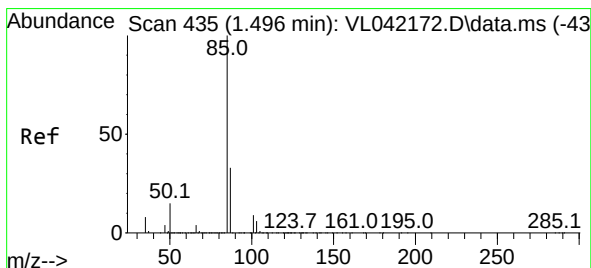
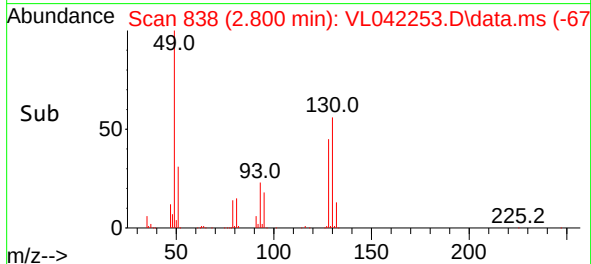
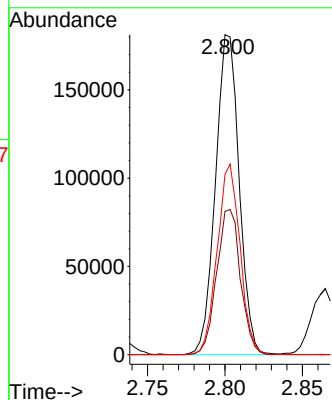
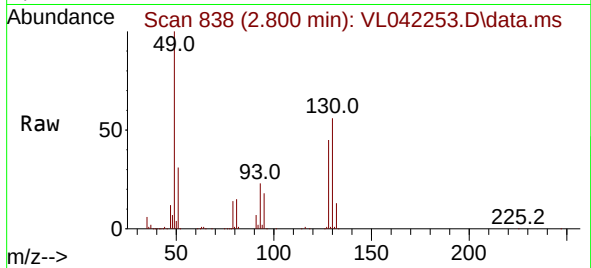




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 2.800 min Scan# 81
 Delta R.T. 0.016 min
 Lab File: VL042253.D
 Acq: 08 Apr 2025 08:39

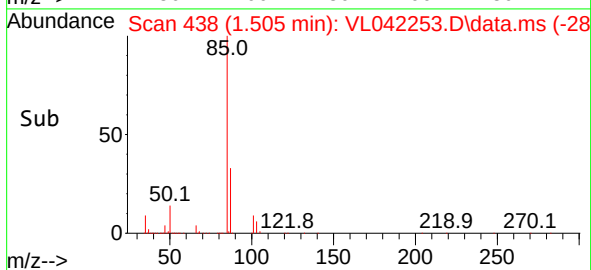
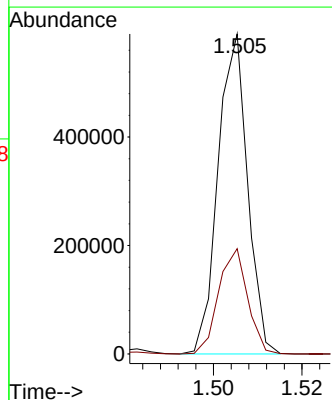
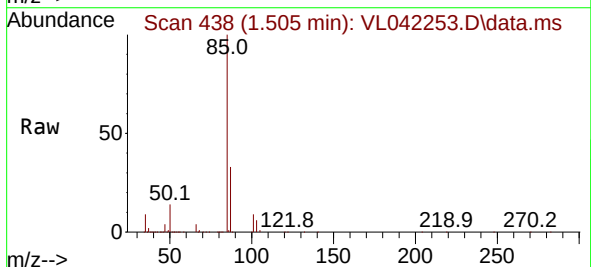
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDCCC010

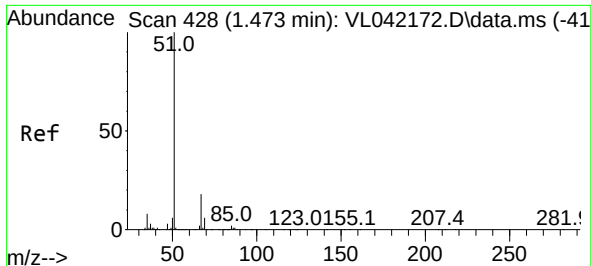
Tgt Ion: 49 Resp: 192748
 Ion Ratio Lower Upper
 49 100
 128 45.7 22.9 68.5
 130 57.6 28.8 86.4



#2
 Dichlorodifluoromethane
 Concen: 9.608 ppbv
 RT: 1.505 min Scan# 438
 Delta R.T. 0.010 min
 Lab File: VL042253.D
 Acq: 08 Apr 2025 08:39

Tgt Ion: 85 Resp: 273431
 Ion Ratio Lower Upper
 85 100
 87 32.9 26.1 39.1

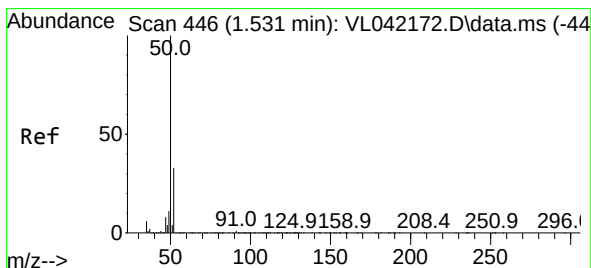
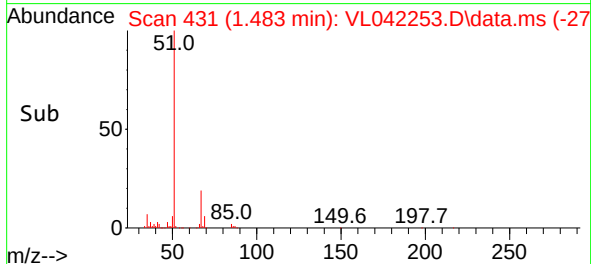
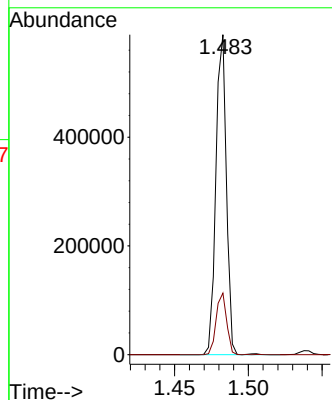
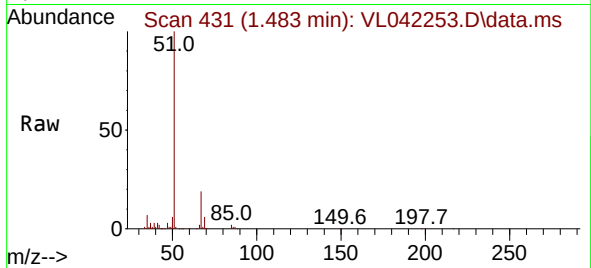




#3
Chlorodifluoromethane
Concen: 9.985 ppbv
RT: 1.483 min Scan# 41
Delta R.T. 0.010 min
Lab File: VL042253.D
Acq: 08 Apr 2025 08:39

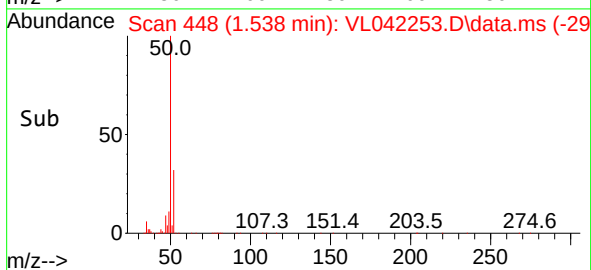
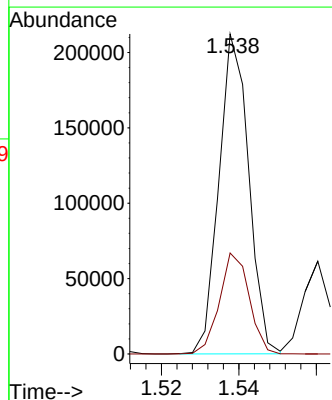
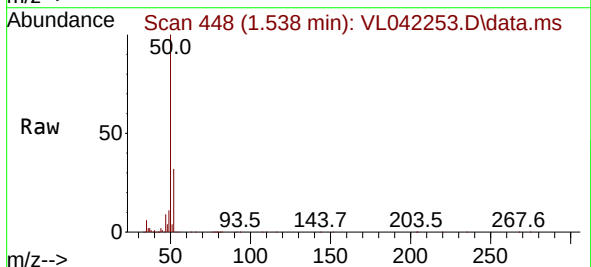
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

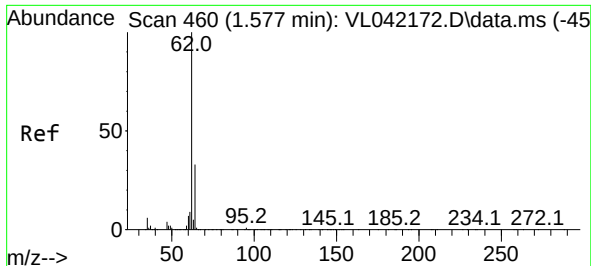
Tgt Ion: 51 Resp: 290289
Ion Ratio Lower Upper
51 100
67 19.4 15.0 22.6



#4
Chloromethane
Concen: 9.729 ppbv
RT: 1.538 min Scan# 448
Delta R.T. 0.006 min
Lab File: VL042253.D
Acq: 08 Apr 2025 08:39

Tgt Ion: 50 Resp: 113157
Ion Ratio Lower Upper
50 100
52 31.6 26.1 39.1

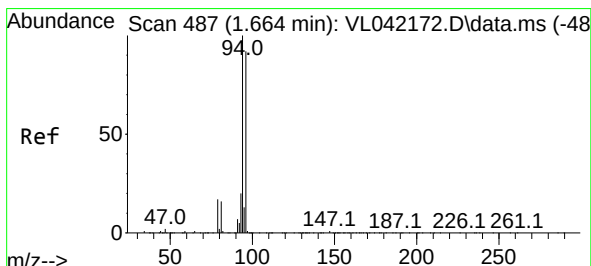
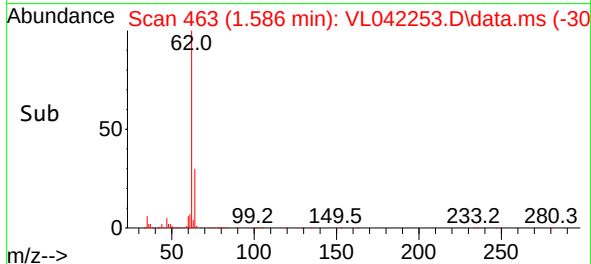
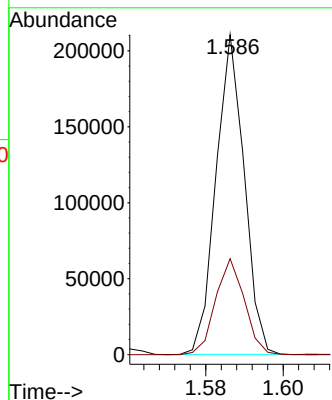
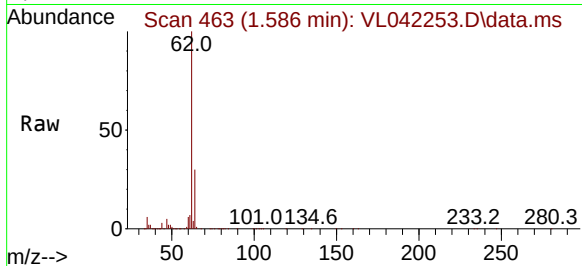




#5
 Vinyl Chloride
 Concen: 8.637 ppbv
 RT: 1.586 min Scan# 41
 Delta R.T. 0.010 min
 Lab File: VL042253.D
 Acq: 08 Apr 2025 08:39

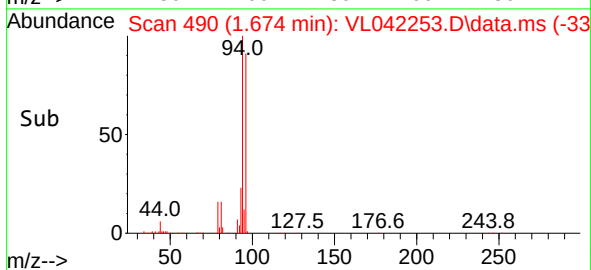
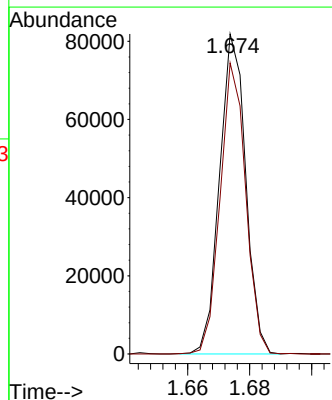
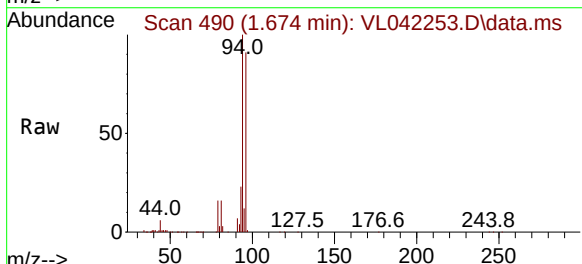
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDCCC010

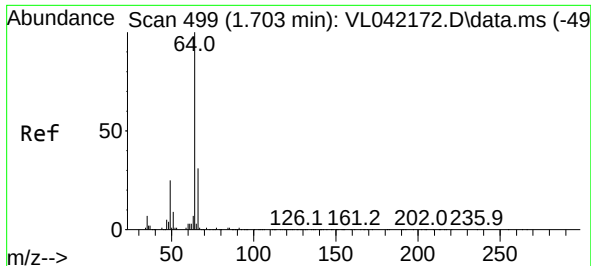
Tgt Ion: 62 Resp: 106450
 Ion Ratio Lower Upper
 62 100
 64 30.0 26.6 40.0



#6
 Bromomethane
 Concen: 9.087 ppbv
 RT: 1.674 min Scan# 490
 Delta R.T. 0.010 min
 Lab File: VL042253.D
 Acq: 08 Apr 2025 08:39

Tgt Ion: 94 Resp: 47897
 Ion Ratio Lower Upper
 94 100
 96 90.9 73.1 109.7

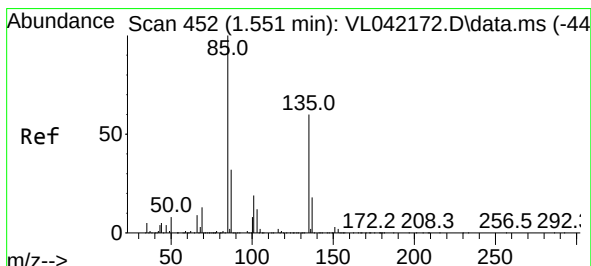
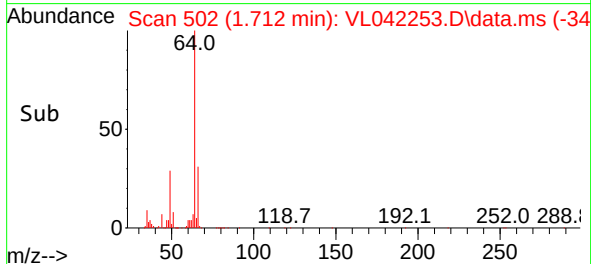
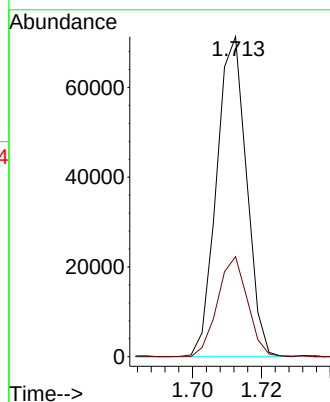
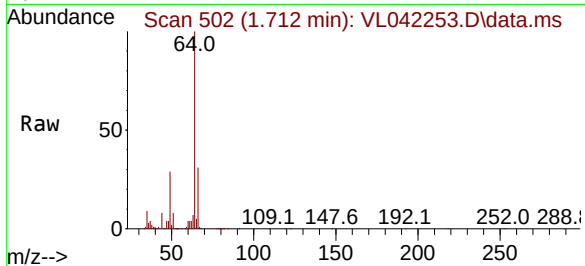




#7
Chloroethane
Concen: 9.215 ppbv
RT: 1.712 min Scan# 50
Delta R.T. 0.010 min
Lab File: VL042253.D
Acq: 08 Apr 2025 08:39

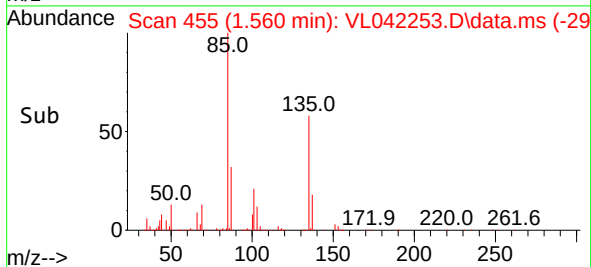
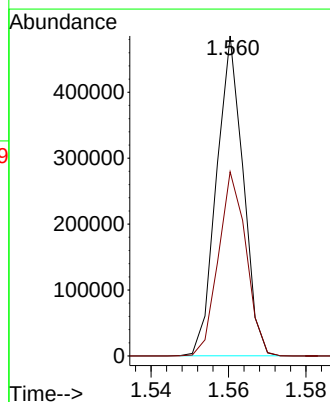
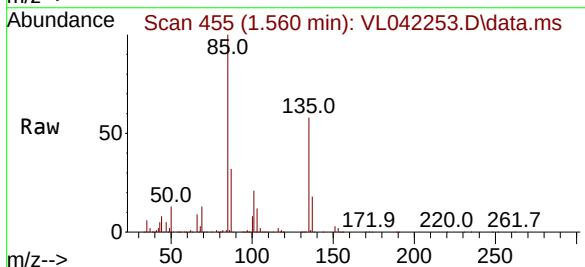
Instrument :
MSVOA_1
ClientSampleId :
VSTDCCC010

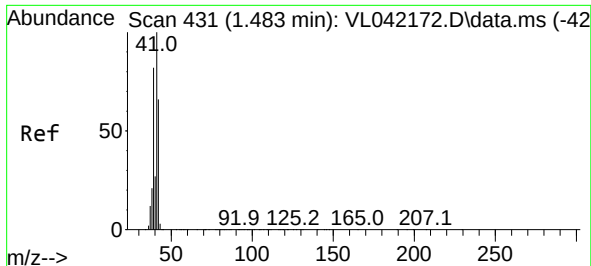
Tgt Ion: 64 Resp: 43021
Ion Ratio Lower Upper
64 100
66 31.2 25.2 37.8



#8
Dichlorotetrafluoroethane
Concen: 9.554 ppbv
RT: 1.560 min Scan# 455
Delta R.T. 0.010 min
Lab File: VL042253.D
Acq: 08 Apr 2025 08:39

Tgt Ion: 85 Resp: 231550
Ion Ratio Lower Upper
85 100
135 60.1 52.4 78.6





#9

Propene

Concen: 8.104 ppbv

RT: 1.489 min Scan# 41

Delta R.T. 0.006 min

Lab File: VL042253.D

Acq: 08 Apr 2025 08:39

Instrument :

MSVOA_1

ClientSampleId :

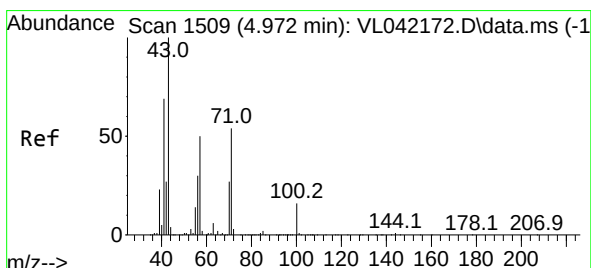
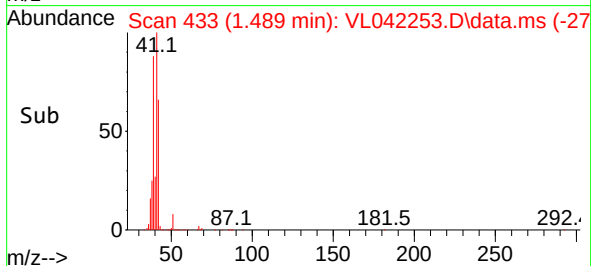
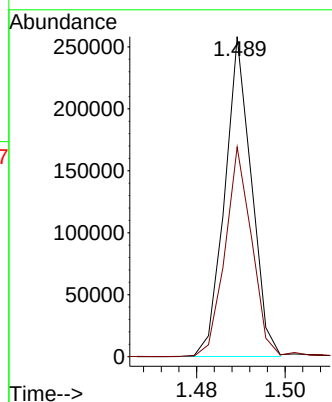
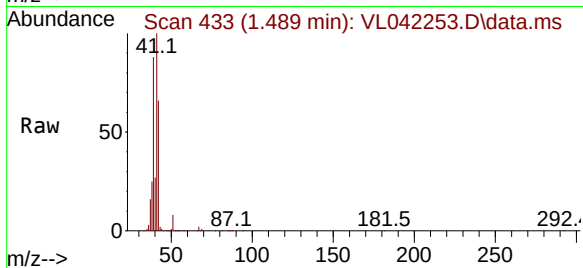
VSTDCCC010

Tgt Ion: 41 Resp: 107995

Ion Ratio Lower Upper

41 100

42 67.3 55.4 83.2



#10

Heptane

Concen: 9.441 ppbv

RT: 5.011 min Scan# 1521

Delta R.T. 0.039 min

Lab File: VL042253.D

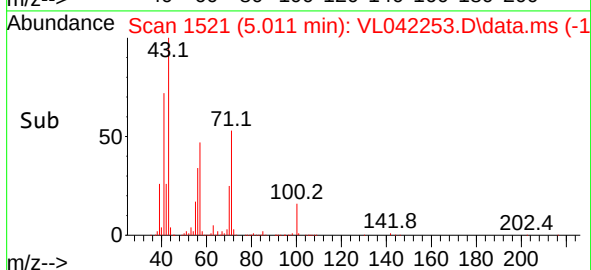
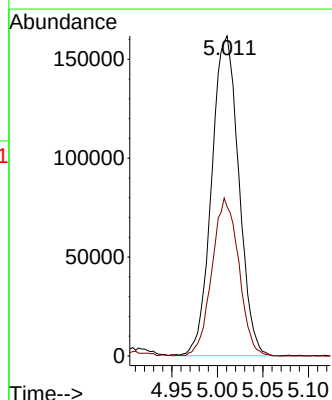
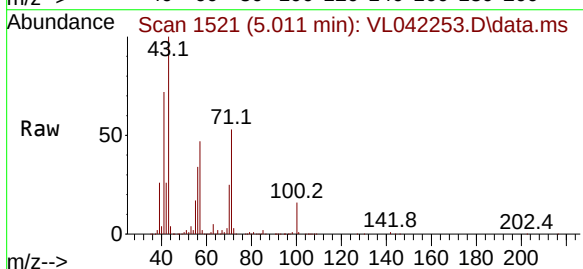
Acq: 08 Apr 2025 08:39

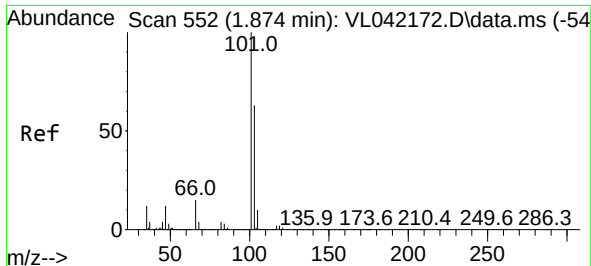
Tgt Ion: 43 Resp: 334651

Ion Ratio Lower Upper

43 100

57 48.8 39.4 59.2

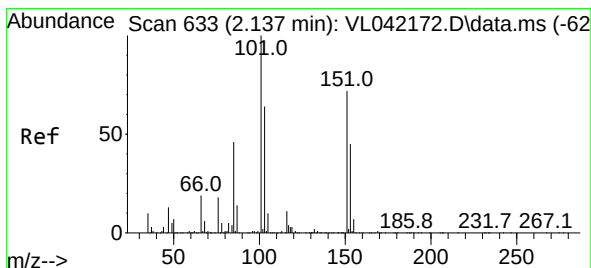
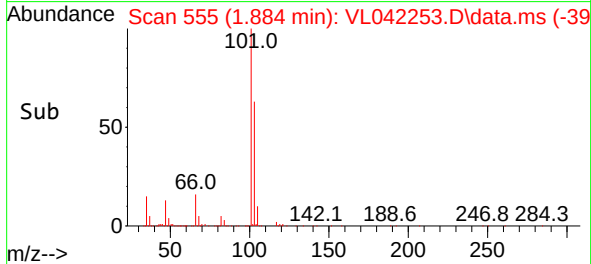
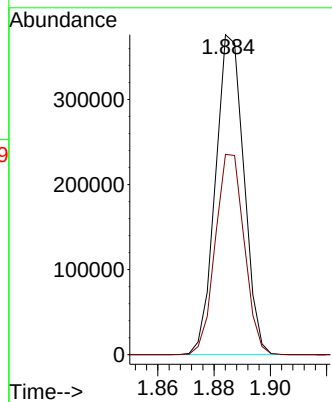
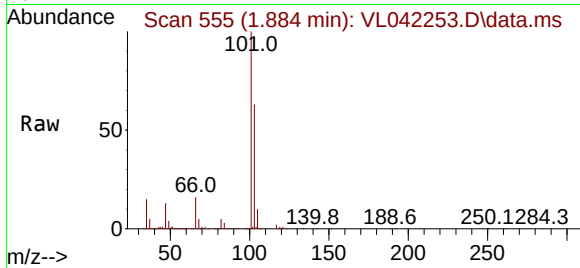




#11
Trichlorofluoromethane
Concen: 9.518 ppbv
RT: 1.884 min Scan# 51
Delta R.T. 0.010 min
Lab File: VL042253.D
Acq: 08 Apr 2025 08:39

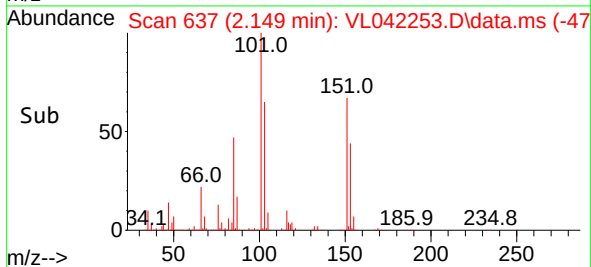
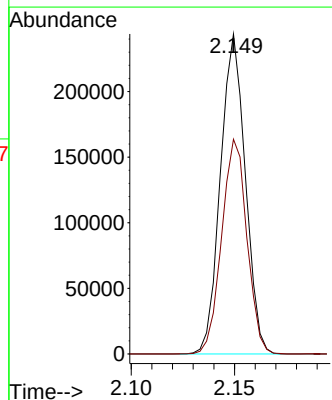
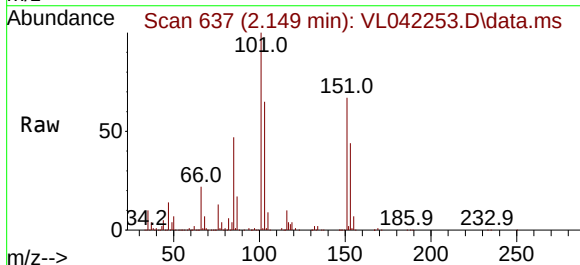
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

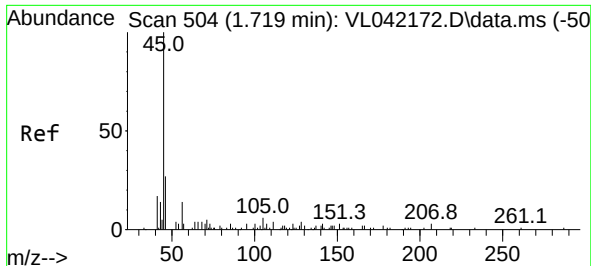
Tgt Ion:101 Resp: 263560
Ion Ratio Lower Upper
101 100
103 62.6 50.2 75.2



#12
1,1,2-Trichlorotrifluoroethane
Concen: 8.967 ppbv
RT: 2.149 min Scan# 637
Delta R.T. 0.013 min
Lab File: VL042253.D
Acq: 08 Apr 2025 08:39

Tgt Ion:101 Resp: 204093
Ion Ratio Lower Upper
101 100
151 68.2 57.1 85.7

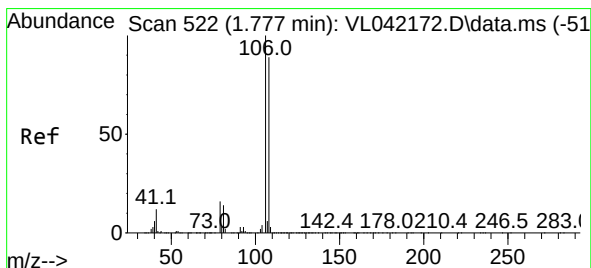
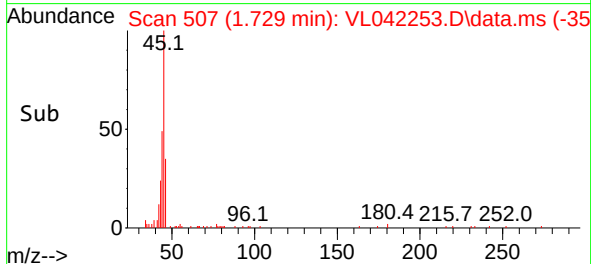
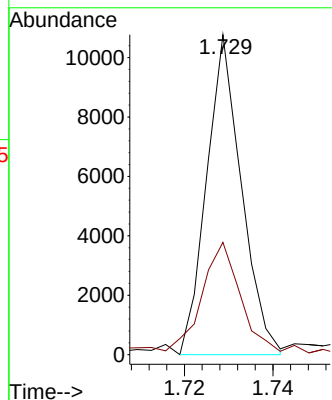
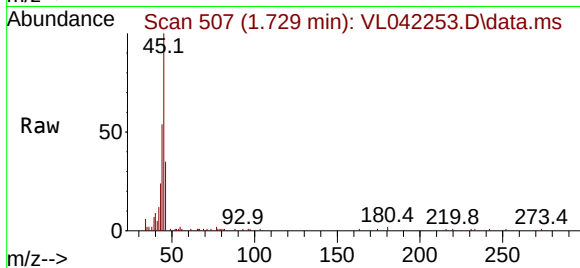




#13
Ethanol
Concen: 4.686 ppbv
RT: 1.729 min Scan# 504
Delta R.T. 0.010 min
Lab File: VL042253.D
Acq: 08 Apr 2025 08:39

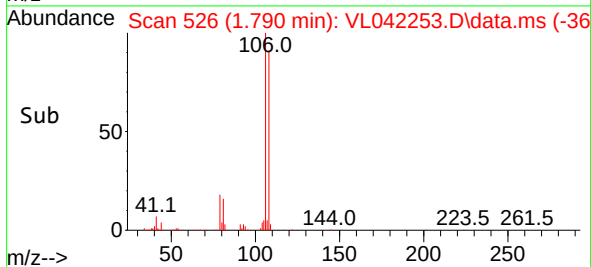
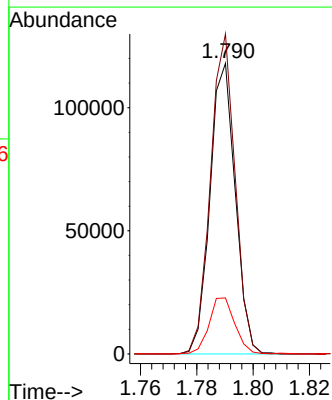
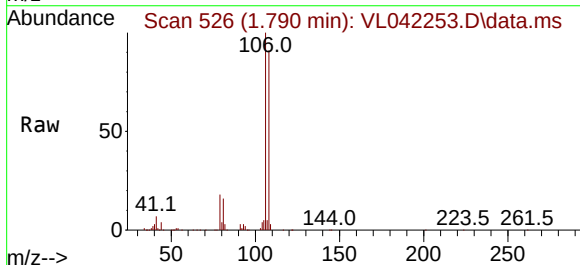
Instrument :
MSVOA_1
ClientSampleId :
VSTDCCC010

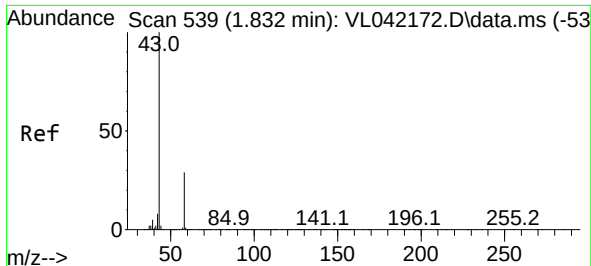
Tgt Ion: 45 Resp: 5903
Ion Ratio Lower Upper
45 100
46 45.1 20.2 80.8



#14
Bromoethene
Concen: 8.438 ppbv
RT: 1.790 min Scan# 526
Delta R.T. 0.013 min
Lab File: VL042253.D
Acq: 08 Apr 2025 08:39

Tgt Ion: 108 Resp: 73578
Ion Ratio Lower Upper
108 100
106 107.3 86.8 130.2
79 20.3 15.0 22.6





#15

Acetone

Concen: 8.677 ppbv

RT: 1.842 min Scan# 54

Delta R.T. 0.010 min

Lab File: VL042253.D

Acq: 08 Apr 2025 08:39

Instrument :

MSVOA_L

ClientSampleId :

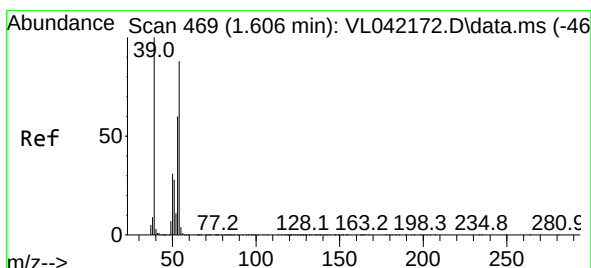
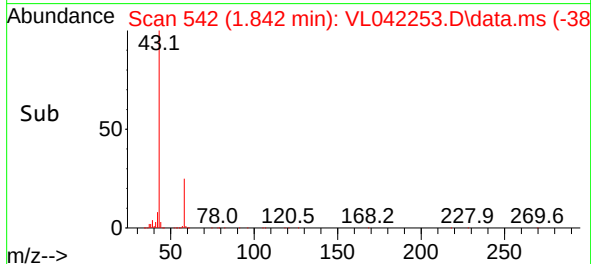
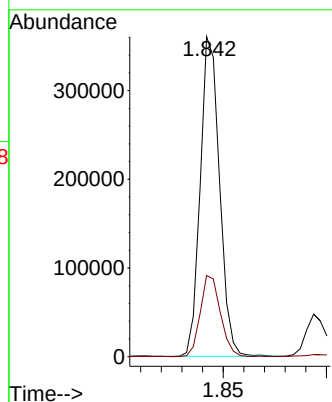
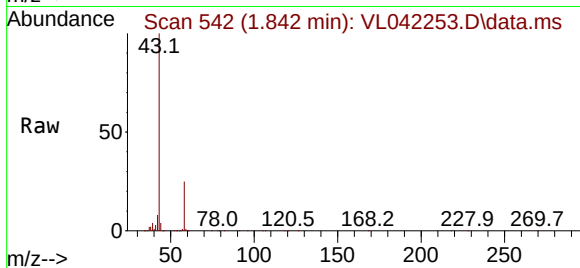
VSTDCCC010

Tgt Ion: 43 Resp: 233895

Ion Ratio Lower Upper

43 100

58 26.7 23.2 34.8



#16

1,3-Butadiene

Concen: 8.637 ppbv

RT: 1.615 min Scan# 472

Delta R.T. 0.010 min

Lab File: VL042253.D

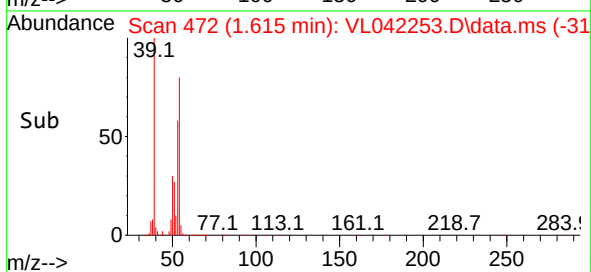
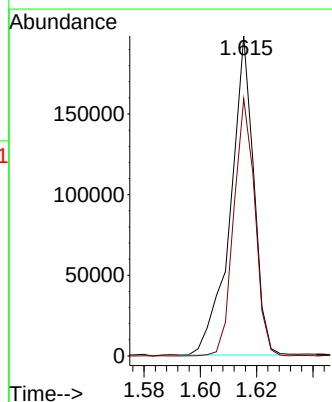
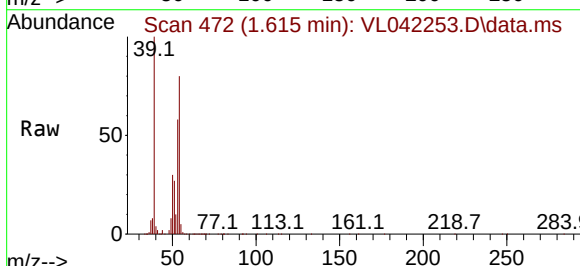
Acq: 08 Apr 2025 08:39

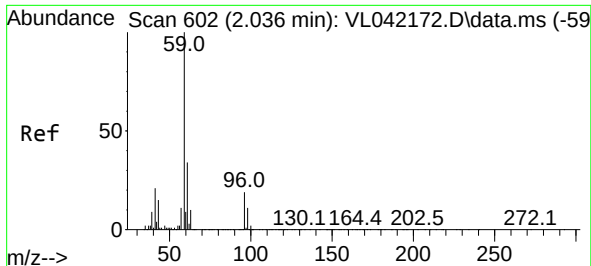
Tgt Ion: 39 Resp: 113699

Ion Ratio Lower Upper

39 100

54 73.1 60.7 91.1





#17

tert-Butyl alcohol

Concen: 7.865 ppbv

RT: 2.049 min Scan# 60

Delta R.T. 0.013 min

Lab File: VL042253.D

Acq: 08 Apr 2025 08:39

Instrument :

MSVOA_L

ClientSampleId :

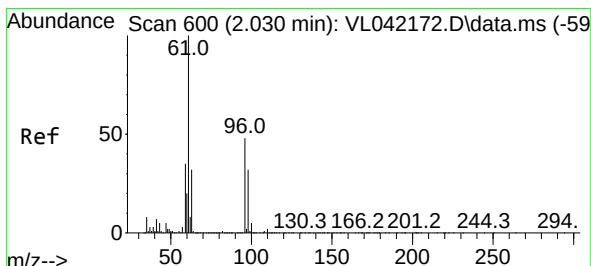
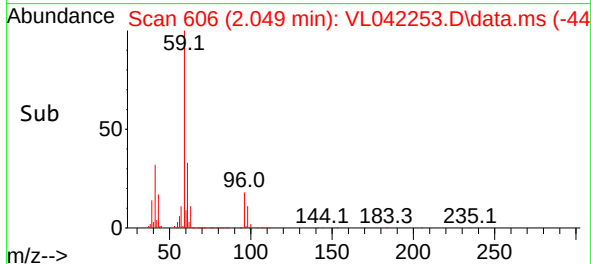
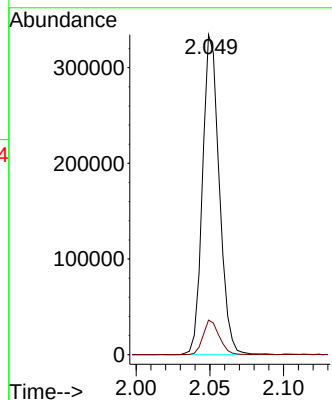
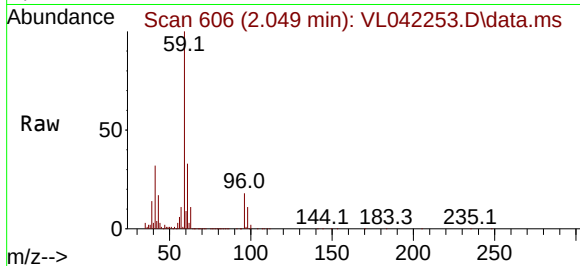
VSTDCCC010

Tgt Ion: 59 Resp: 264061

Ion Ratio Lower Upper

59 100

57 10.5 8.9 13.3



#18

1,1-Dichloroethene

Concen: 8.414 ppbv

RT: 2.043 min Scan# 604

Delta R.T. 0.013 min

Lab File: VL042253.D

Acq: 08 Apr 2025 08:39

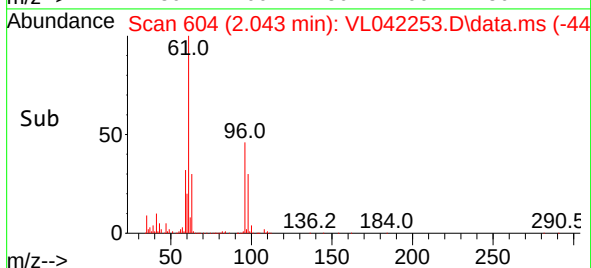
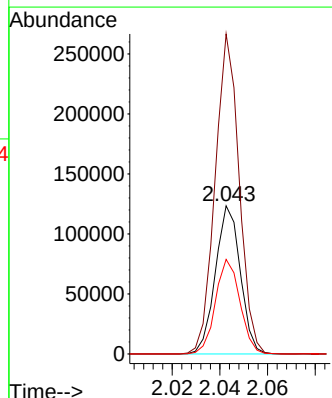
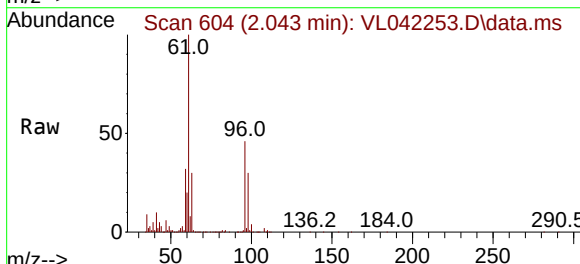
Tgt Ion: 96 Resp: 89526

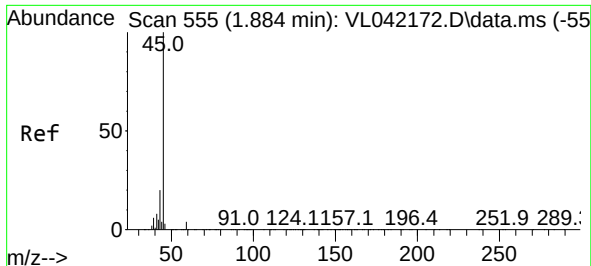
Ion Ratio Lower Upper

96 100

61 216.0 167.6 251.4

98 63.8 53.5 80.3





#19

Isopropyl Alcohol

Concen: 8.653 ppbv

RT: 1.894 min Scan# 51

Delta R.T. 0.010 min

Lab File: VL042253.D

Acq: 08 Apr 2025 08:39

Instrument :

MSVOA_L

ClientSampleId :

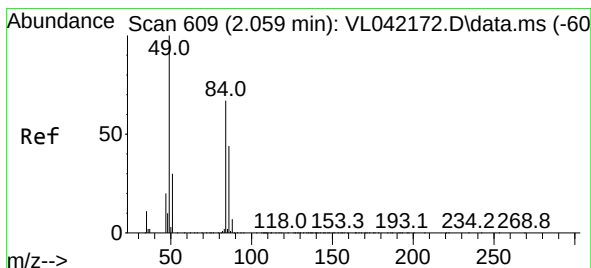
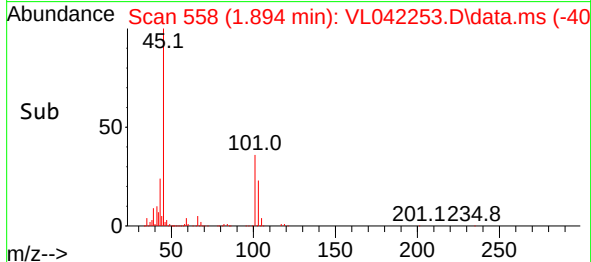
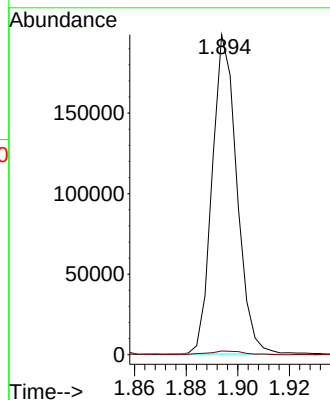
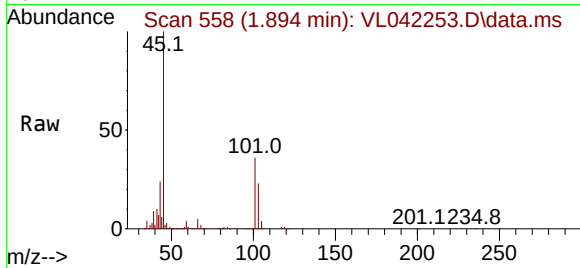
VSTDCCC010

Tgt Ion: 45 Resp: 131605

Ion Ratio Lower Upper

45 100

58 47.5 36.9 55.3



#20

Methylene Chloride

Concen: 7.825 ppbv

RT: 2.072 min Scan# 613

Delta R.T. 0.013 min

Lab File: VL042253.D

Acq: 08 Apr 2025 08:39

Tgt Ion: 84 Resp: 78560

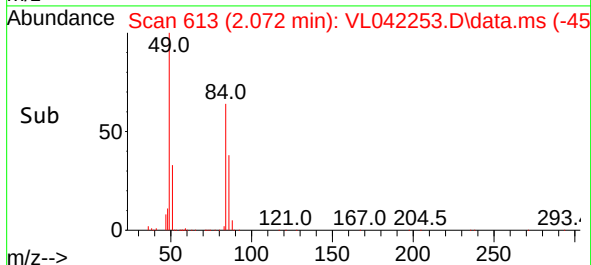
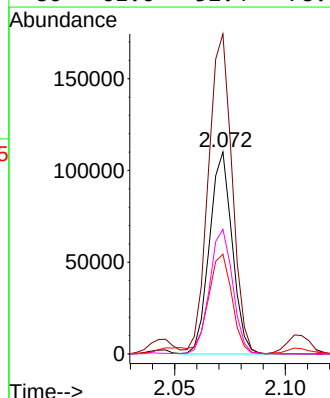
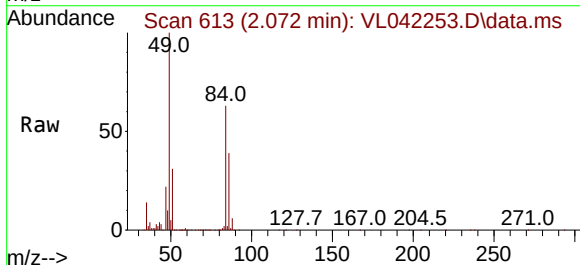
Ion Ratio Lower Upper

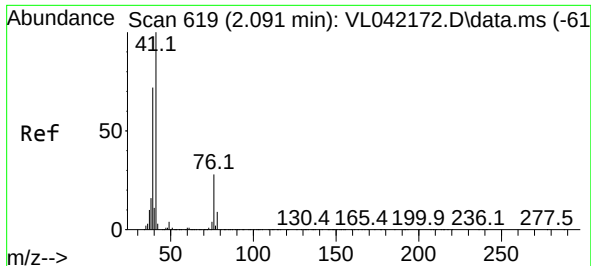
84 100

49 156.4 120.2 180.4

51 48.5 37.4 56.0

86 61.6 52.4 78.6

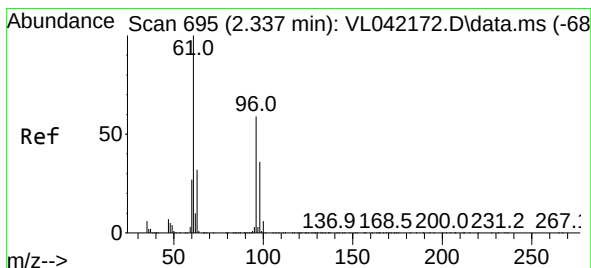
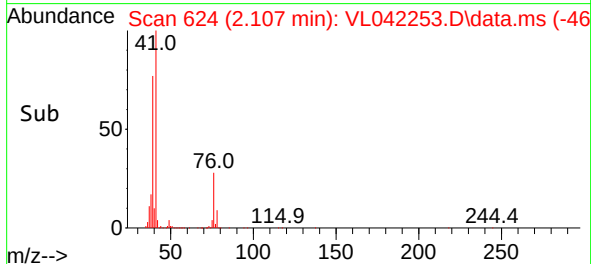
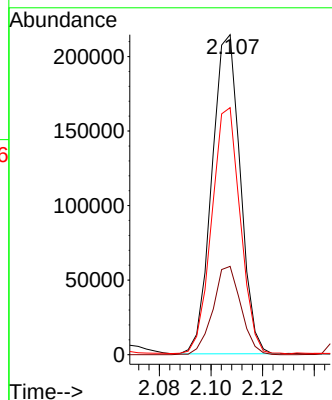
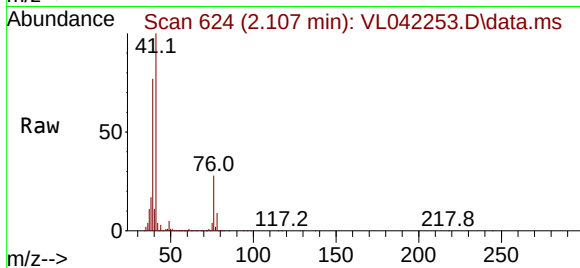




#21
 Allyl Chloride
 Concen: 8.590 ppbv
 RT: 2.107 min Scan# 61
 Delta R.T. 0.016 min
 Lab File: VL042253.D
 Acq: 08 Apr 2025 08:39

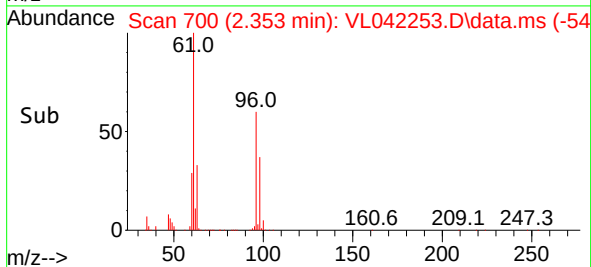
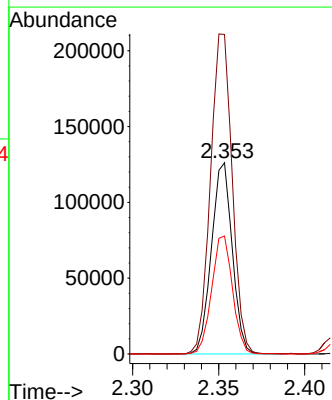
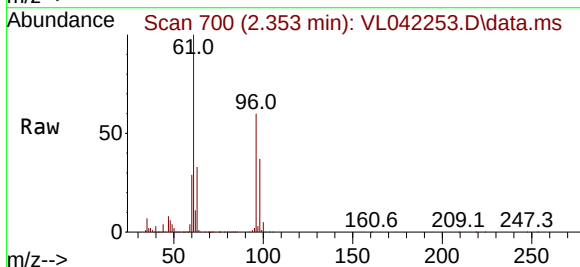
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

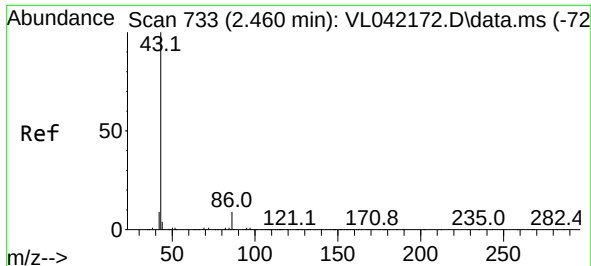
Tgt Ion: 41 Resp: 163305
 Ion Ratio Lower Upper
 41 100
 76 27.3 24.1 36.1
 39 77.5 61.1 91.7



#22
 trans-1,2-Dichloroethene
 Concen: 8.643 ppbv
 RT: 2.353 min Scan# 700
 Delta R.T. 0.016 min
 Lab File: VL042253.D
 Acq: 08 Apr 2025 08:39

Tgt Ion: 96 Resp: 106297
 Ion Ratio Lower Upper
 96 100
 61 167.0 136.6 204.8
 98 61.7 49.4 74.2

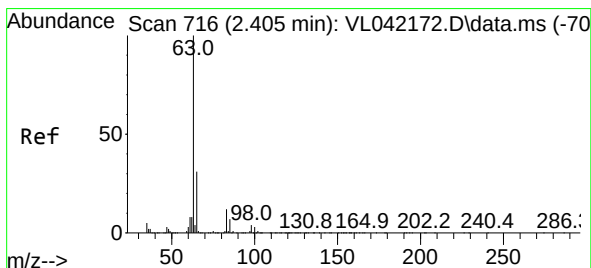
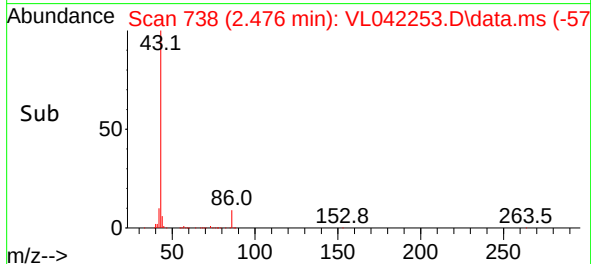
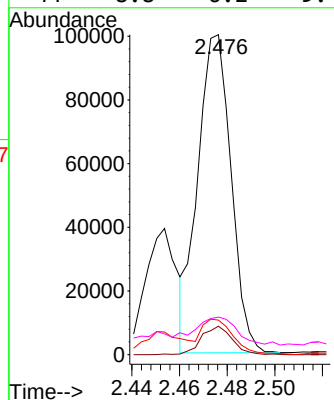
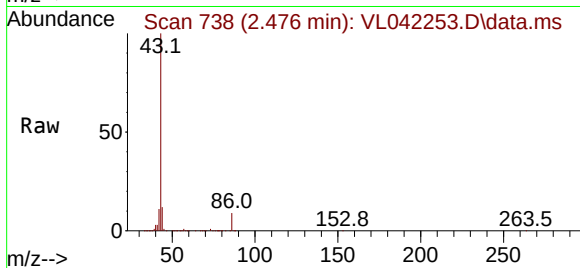




#23
 Vinyl Acetate
 Concen: 8.313 ppbv
 RT: 2.476 min Scan# 71
 Delta R.T. 0.016 min
 Lab File: VL042253.D
 Acq: 08 Apr 2025 08:39

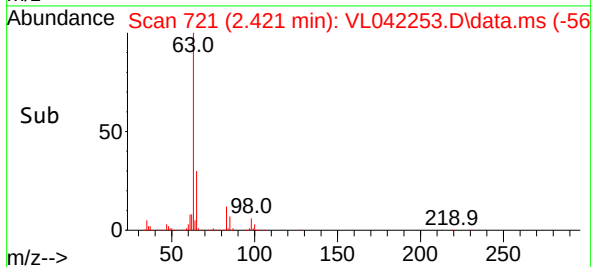
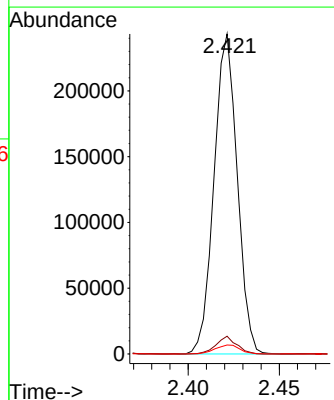
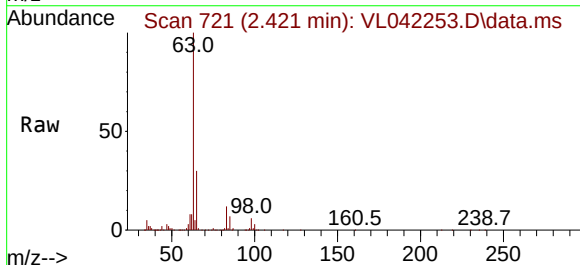
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDCCC010

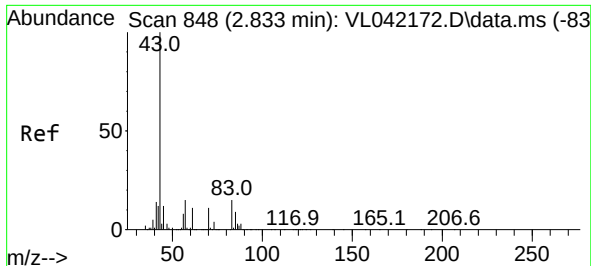
Tgt Ion: 43 Resp: 96990
 Ion Ratio Lower Upper
 43 100
 86 8.9 5.5 8.3#
 42 10.5 8.6 13.0
 44 8.8 6.2 9.4



#24
 1,1-Dichloroethane
 Concen: 9.422 ppbv
 RT: 2.421 min Scan# 721
 Delta R.T. 0.016 min
 Lab File: VL042253.D
 Acq: 08 Apr 2025 08:39

Tgt Ion: 63 Resp: 214800
 Ion Ratio Lower Upper
 63 100
 98 5.5 2.3 6.8
 100 2.8 1.6 4.7





#25

Ethyl Acetate

Concen: 9.704 ppbv

RT: 2.852 min Scan# 81

Delta R.T. 0.019 min

Lab File: VL042253.D

Acq: 08 Apr 2025 08:39

Instrument :

MSVOA_1

ClientSampleId :

VSTDCCC010

Tgt Ion: 43 Resp: 678925

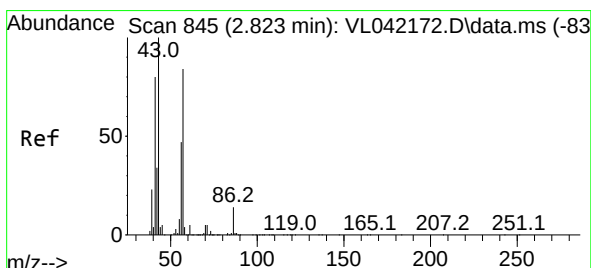
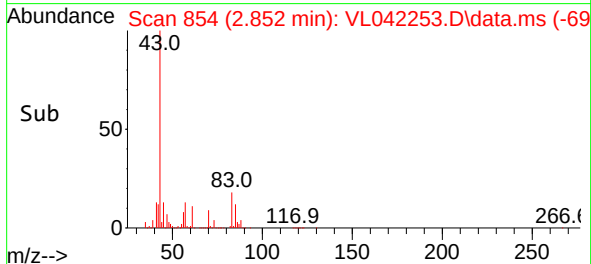
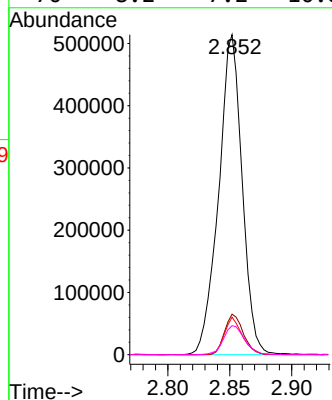
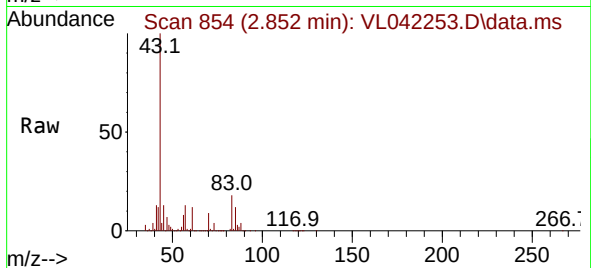
Ion Ratio Lower Upper

43 100

45 10.3 8.2 12.2

61 9.0 7.3 10.9

70 8.2 7.2 10.8



#26

Hexane

Concen: 9.529 ppbv

RT: 2.839 min Scan# 850

Delta R.T. 0.016 min

Lab File: VL042253.D

Acq: 08 Apr 2025 08:39

Tgt Ion: 57 Resp: 257513

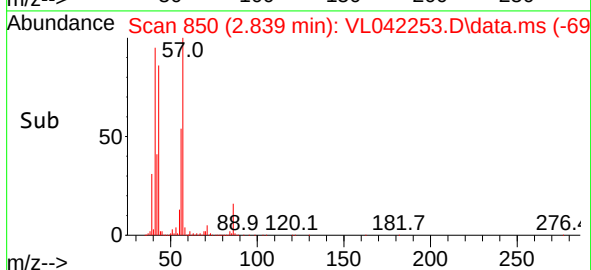
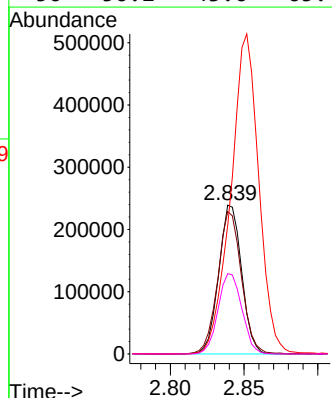
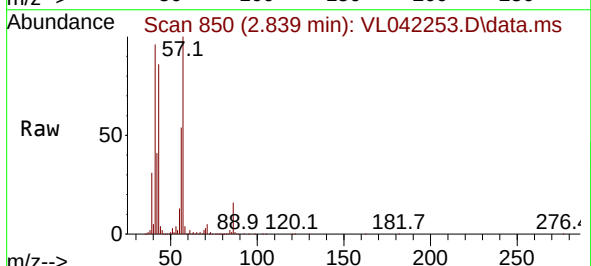
Ion Ratio Lower Upper

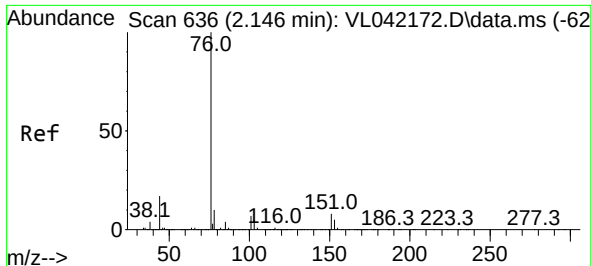
57 100

41 99.7 76.6 114.8

43 264.2 207.8 311.8

56 56.2 43.6 65.4

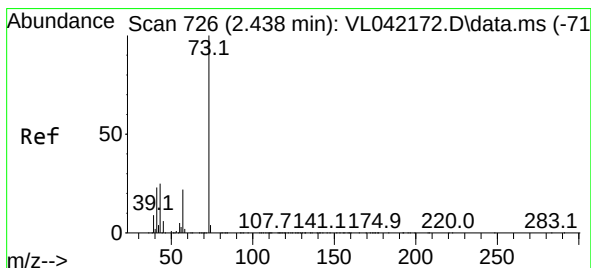
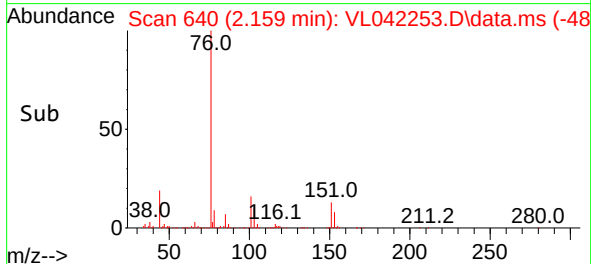
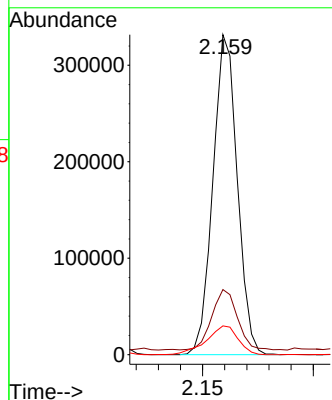
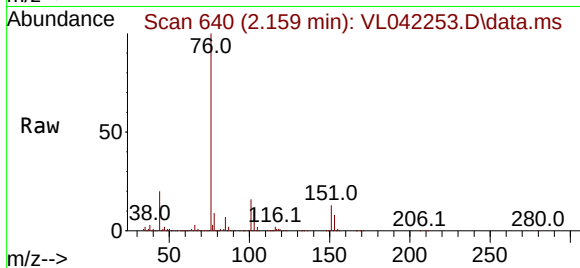




#27
Carbon Disulfide
Concen: 8.762 ppbv
RT: 2.159 min Scan# 640
Delta R.T. 0.013 min
Lab File: VL042253.D
Acq: 08 Apr 2025 08:39

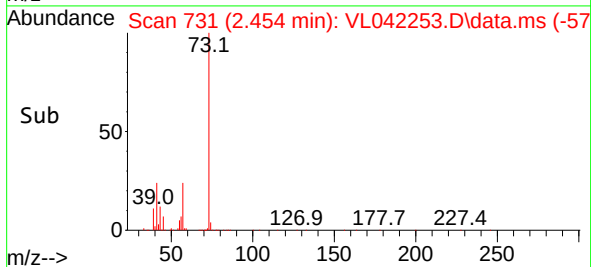
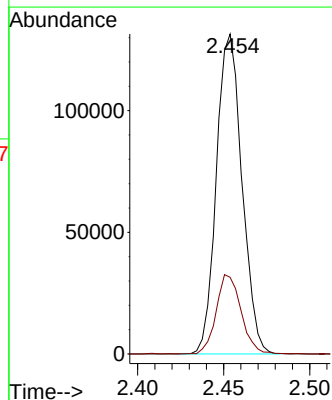
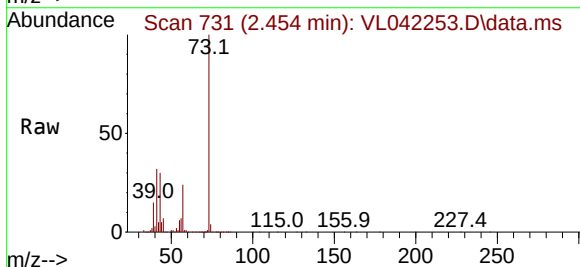
Instrument :
MSVOA_1
ClientSampleId :
VSTDCCC010

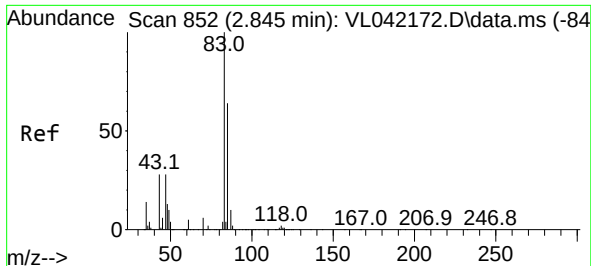
Tgt Ion: 76 Resp: 253909
Ion Ratio Lower Upper
76 100
44 20.0 14.7 22.1
78 11.7 9.3 13.9



#28
Methyl tert-Butyl Ether
Concen: 8.078 ppbv
RT: 2.454 min Scan# 731
Delta R.T. 0.016 min
Lab File: VL042253.D
Acq: 08 Apr 2025 08:39

Tgt Ion: 73 Resp: 135921
Ion Ratio Lower Upper
73 100
57 24.1 20.5 30.7





#29

Chloroform

Concen: 10.306 ppbv

RT: 2.861 min Scan# 81

Delta R.T. 0.016 min

Lab File: VL042253.D

Acq: 08 Apr 2025 08:39

Instrument :

MSVOA_L

ClientSampleId :

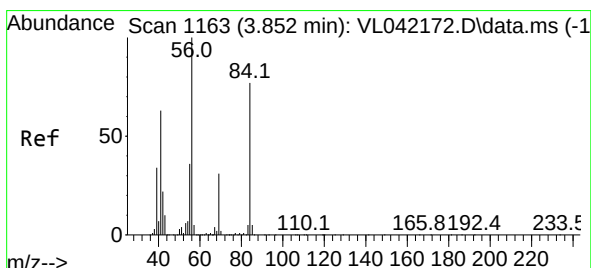
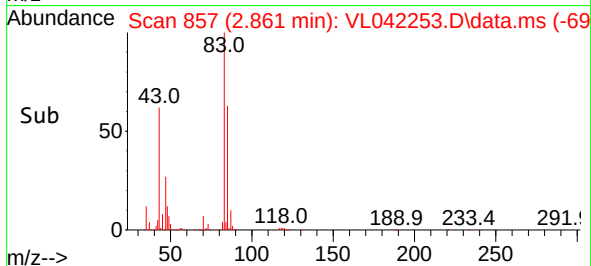
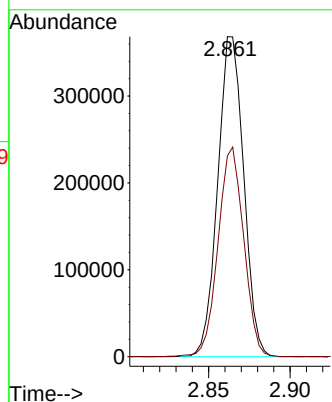
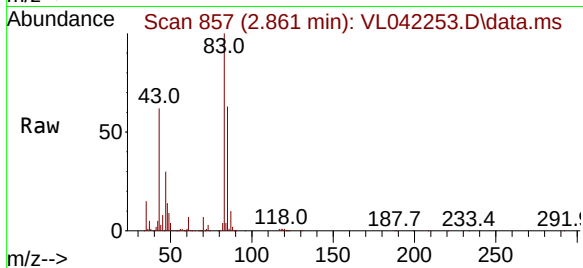
VSTDCCC010

Tgt Ion: 83 Resp: 407591

Ion Ratio Lower Upper

83 100

85 62.7 51.4 77.2



#30

Cyclohexane

Concen: 8.831 ppbv

RT: 3.878 min Scan# 1171

Delta R.T. 0.026 min

Lab File: VL042253.D

Acq: 08 Apr 2025 08:39

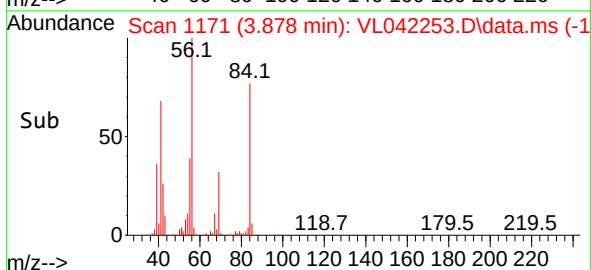
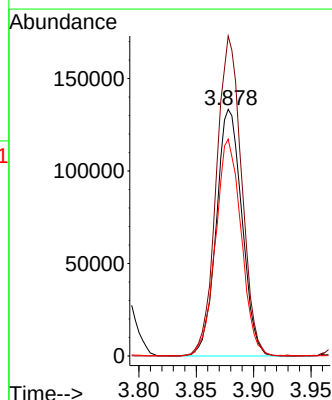
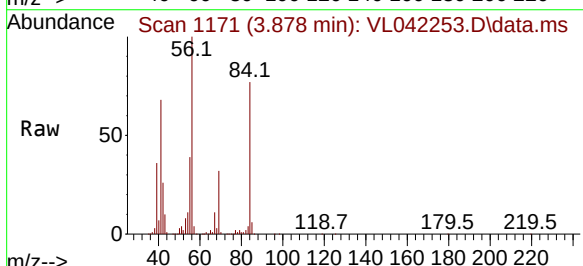
Tgt Ion: 84 Resp: 207216

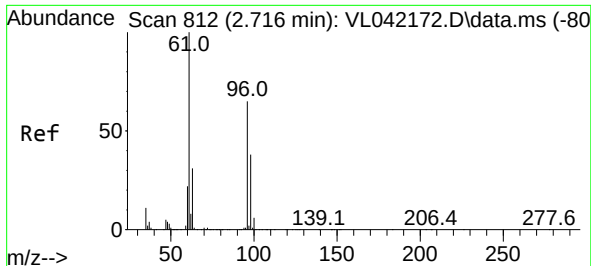
Ion Ratio Lower Upper

84 100

56 127.8 102.8 154.2

41 88.0 66.5 99.7

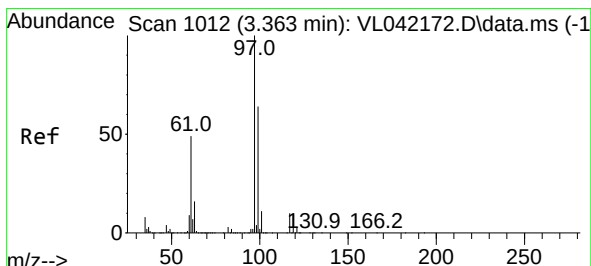
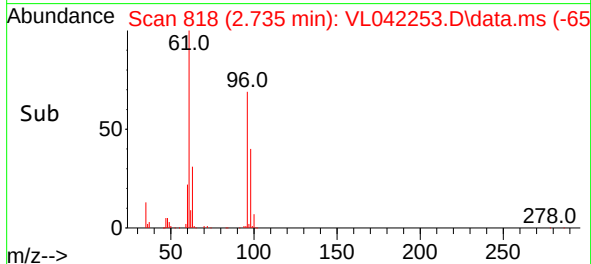
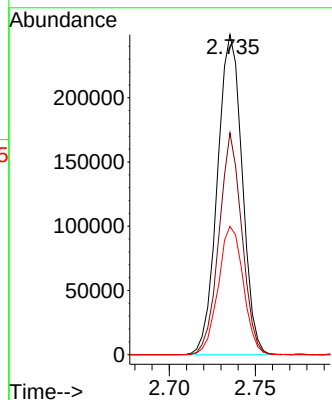
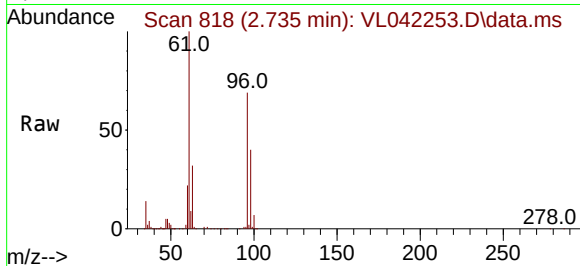




#31
 cis-1,2-Dichloroethene
 Concen: 9.098 ppbv
 RT: 2.735 min Scan# 812
 Delta R.T. 0.019 min
 Lab File: VL042253.D
 Acq: 08 Apr 2025 08:39

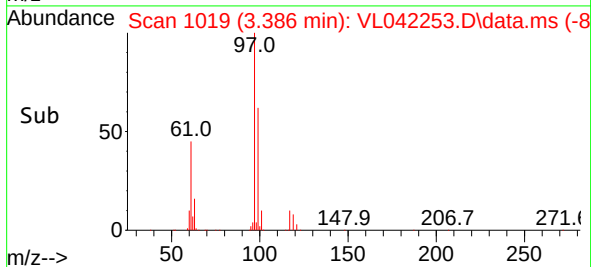
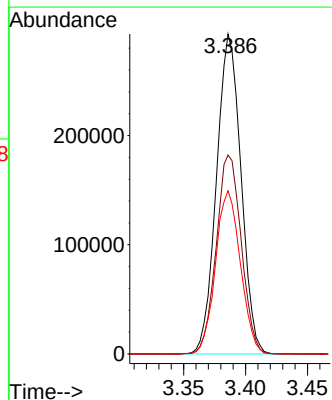
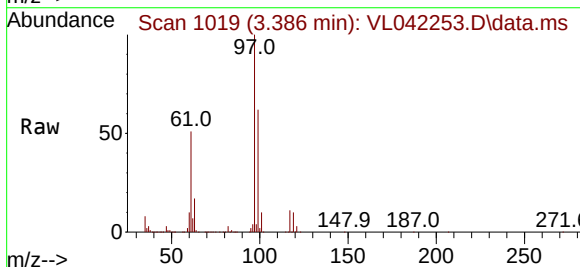
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

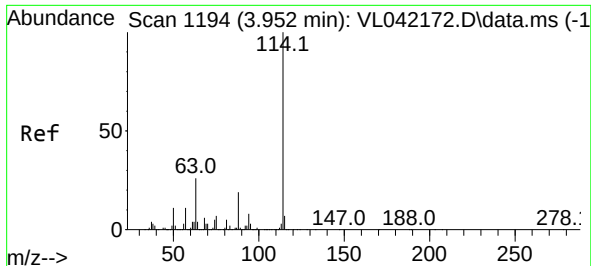
Tgt Ion: 61 Resp: 249595
 Ion Ratio Lower Upper
 61 100
 96 69.3 51.8 77.8
 98 40.1 30.6 46.0



#32
 1,1,1-Trichloroethane
 Concen: 8.915 ppbv
 RT: 3.386 min Scan# 1019
 Delta R.T. 0.023 min
 Lab File: VL042253.D
 Acq: 08 Apr 2025 08:39

Tgt Ion: 97 Resp: 403665
 Ion Ratio Lower Upper
 97 100
 99 63.6 51.5 77.3
 61 51.9 38.7 58.1





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.981 min Scan# 1194

Delta R.T. 0.029 min

Lab File: VL042253.D

Acq: 08 Apr 2025 08:39

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

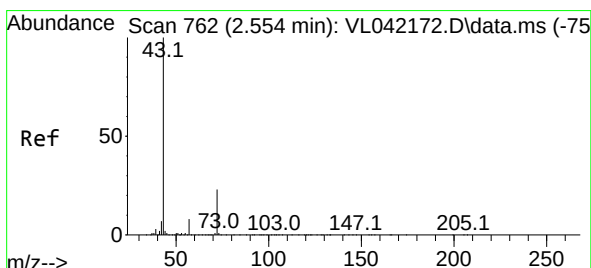
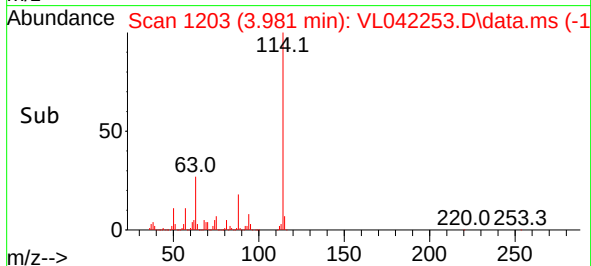
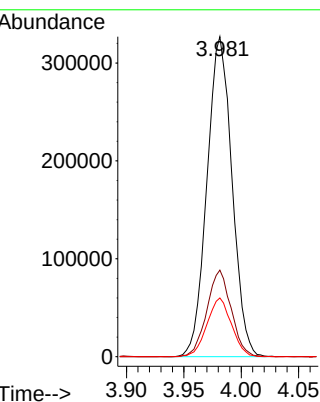
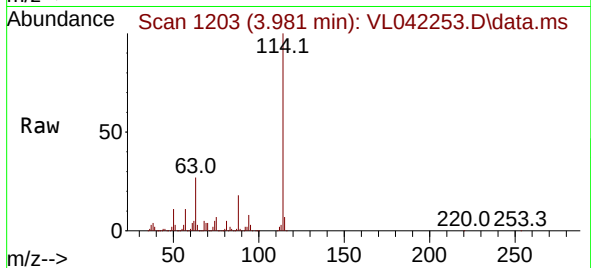
Tgt Ion:114 Resp: 496271

Ion Ratio Lower Upper

114 100

63 26.3 20.7 31.1

88 17.9 15.0 22.4



#34

2-Butanone

Concen: 10.443 ppbv

RT: 2.570 min Scan# 767

Delta R.T. 0.016 min

Lab File: VL042253.D

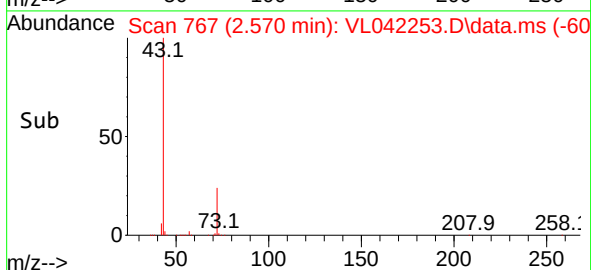
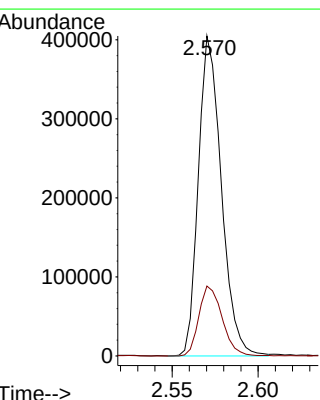
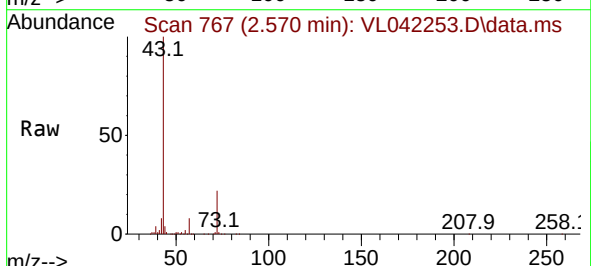
Acq: 08 Apr 2025 08:39

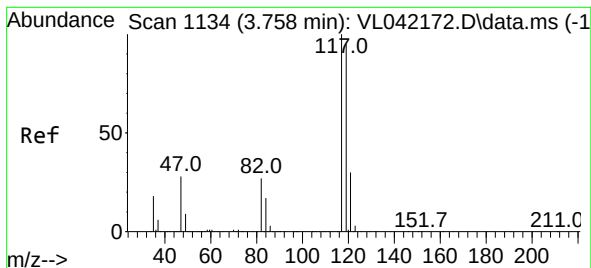
Tgt Ion: 43 Resp: 375791

Ion Ratio Lower Upper

43 100

72 22.2 18.2 27.2





#35

Carbon Tetrachloride

Concen: 10.934 ppbv

RT: 3.784 min Scan# 11

Delta R.T. 0.026 min

Lab File: VL042253.D

Acq: 08 Apr 2025 08:39

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

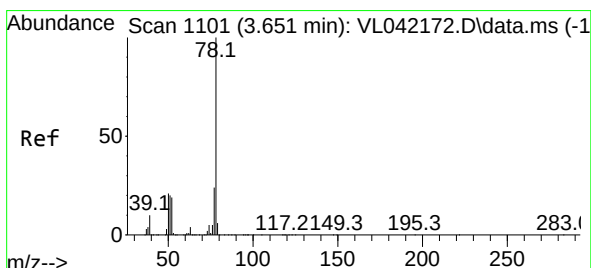
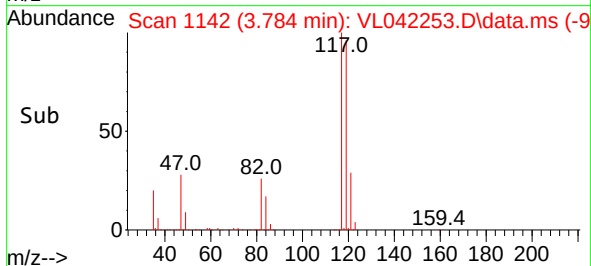
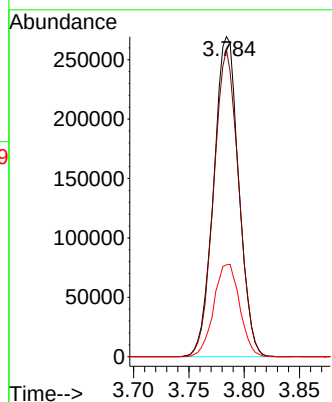
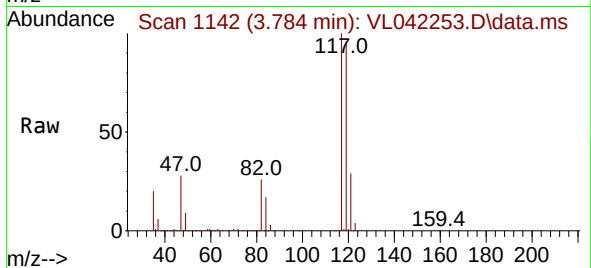
Tgt Ion:117 Resp: 423863

Ion Ratio Lower Upper

117 100

119 95.9 76.2 114.2

121 28.7 24.2 36.4



#36

Benzene

Concen: 10.467 ppbv

RT: 3.677 min Scan# 1109

Delta R.T. 0.026 min

Lab File: VL042253.D

Acq: 08 Apr 2025 08:39

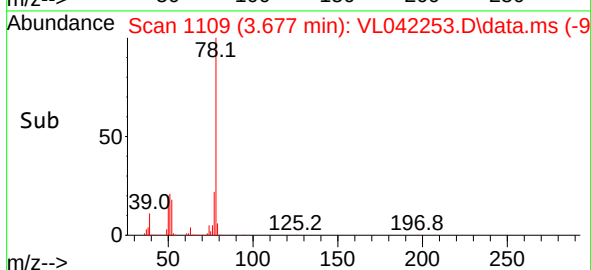
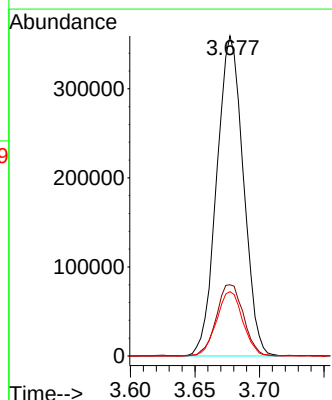
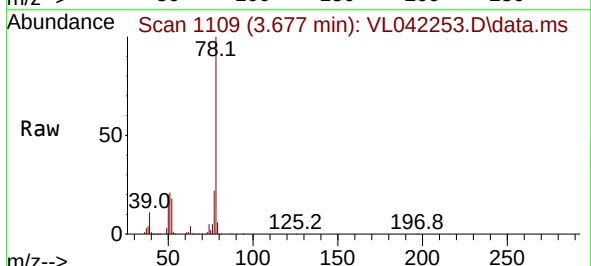
Tgt Ion: 78 Resp: 514967

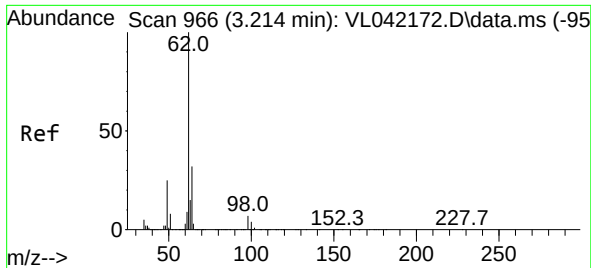
Ion Ratio Lower Upper

78 100

77 22.2 19.1 28.7

50 20.1 16.6 24.8





#37

1,2-Dichloroethane

Concen: 11.119 ppbv

RT: 3.237 min Scan# 91

Delta R.T. 0.023 min

Lab File: VL042253.D

Acq: 08 Apr 2025 08:39

Instrument :

MSVOA_L

ClientSampleId :

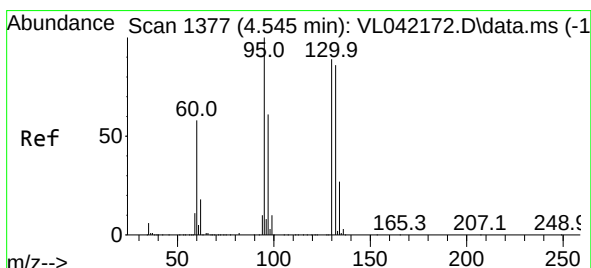
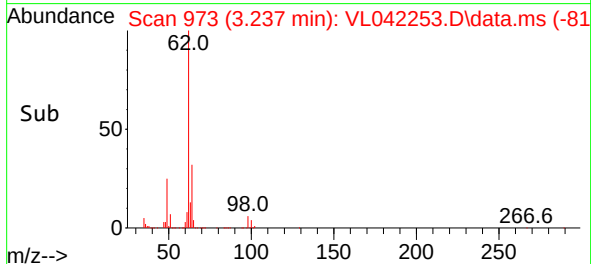
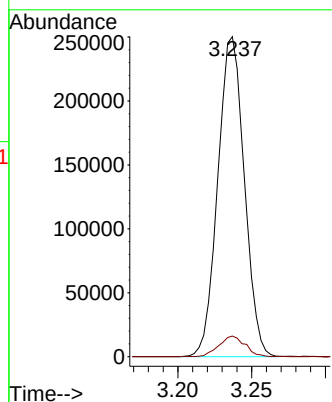
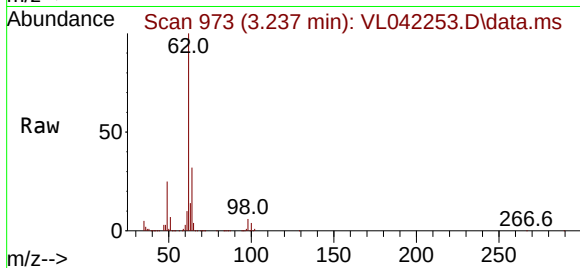
VSTDCCC010

Tgt Ion: 62 Resp: 313194

Ion Ratio Lower Upper

62 100

98 6.4 5.4 8.2



#38

Trichloroethene

Concen: 10.032 ppbv

RT: 4.574 min Scan# 1386

Delta R.T. 0.029 min

Lab File: VL042253.D

Acq: 08 Apr 2025 08:39

Tgt Ion:130 Resp: 205933

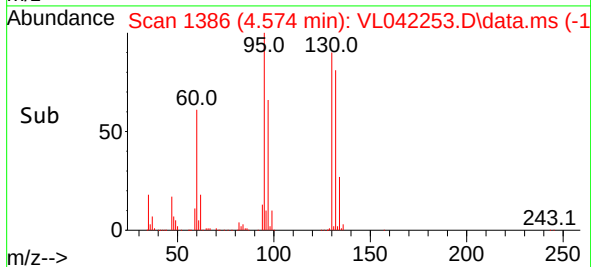
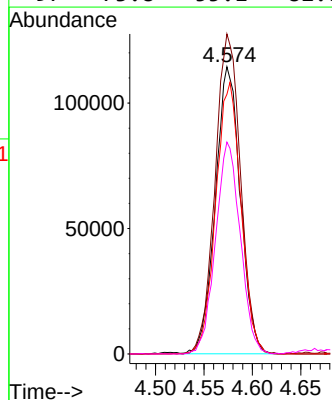
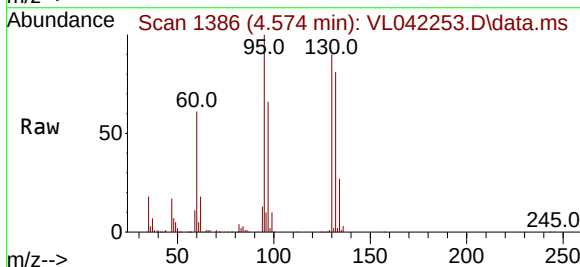
Ion Ratio Lower Upper

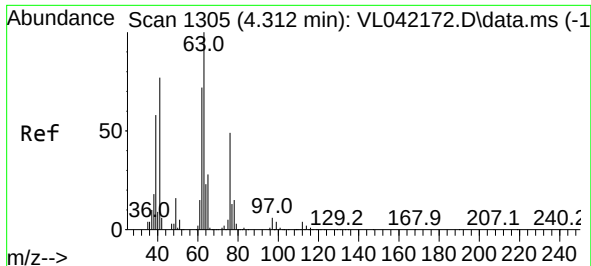
130 100

95 111.4 89.8 134.8

132 90.5 77.4 116.2

97 73.8 55.1 82.7





#39

1,2-Dichloropropane

Concen: 10.501 ppbv

RT: 4.341 min Scan# 1314

Delta R.T. 0.029 min

Lab File: VL042253.D

Acq: 08 Apr 2025 08:39

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

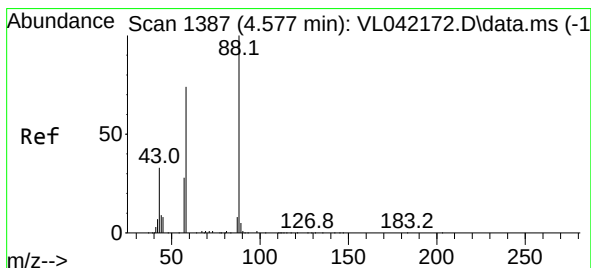
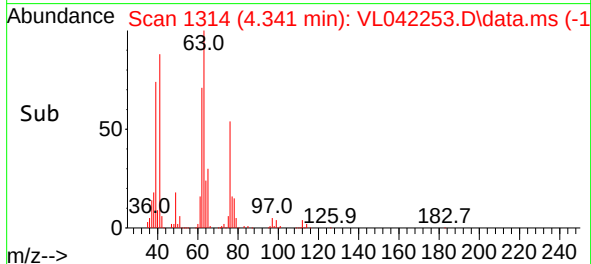
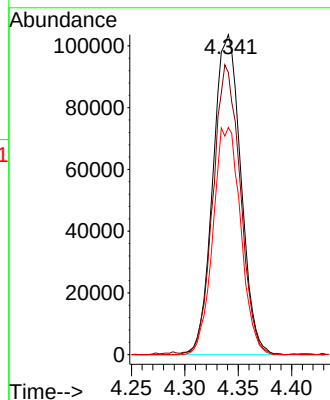
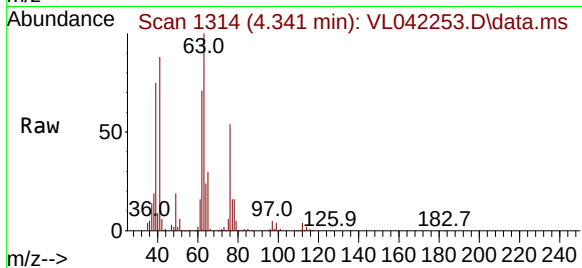
Tgt Ion: 63 Resp: 188150

Ion Ratio Lower Upper

63 100

41 87.9 61.7 92.5

62 70.9 57.6 86.4



#40

1,4-Dioxane

Concen: 9.409 ppbv

RT: 4.613 min Scan# 1398

Delta R.T. 0.035 min

Lab File: VL042253.D

Acq: 08 Apr 2025 08:39

Tgt Ion: 88 Resp: 89479

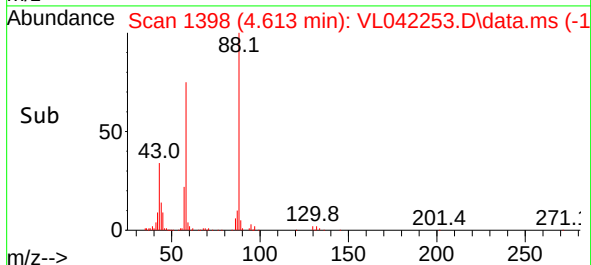
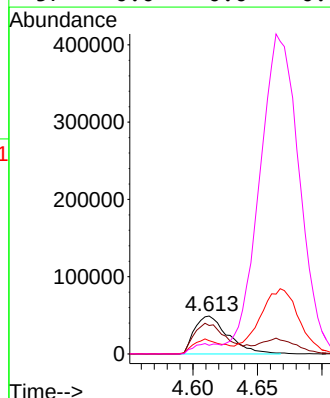
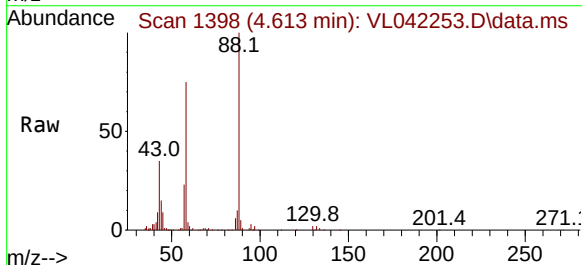
Ion Ratio Lower Upper

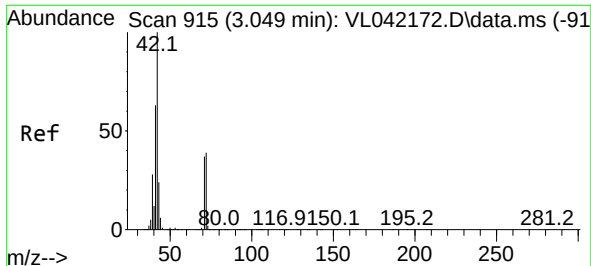
88 100

58 78.8 62.7 94.1

43 35.2 23.0 34.4#

57 0.0 0.0 0.0

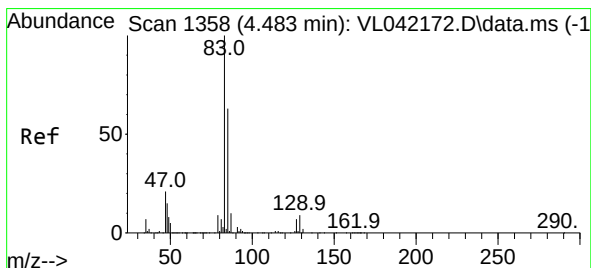
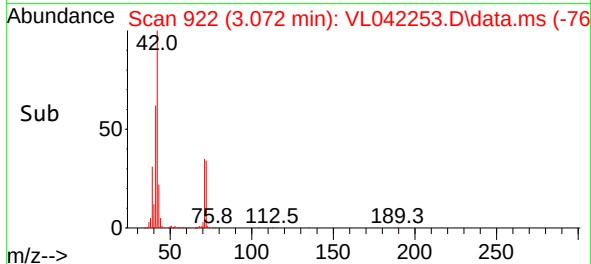
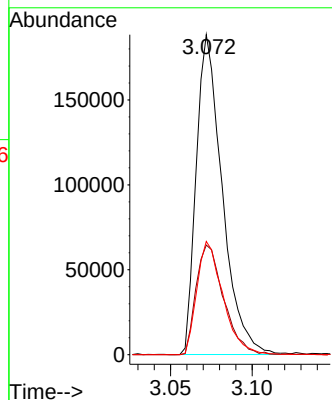
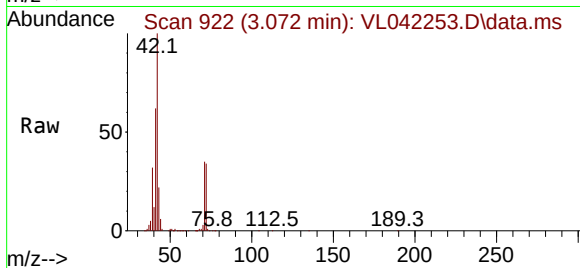




#41
Tetrahydrofuran
Concen: 10.073 ppbv
RT: 3.072 min Scan# 915
Delta R.T. 0.023 min
Lab File: VL042253.D
Acq: 08 Apr 2025 08:39

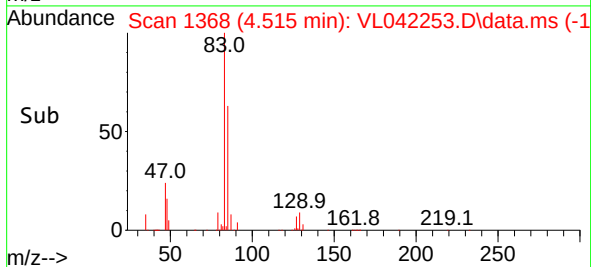
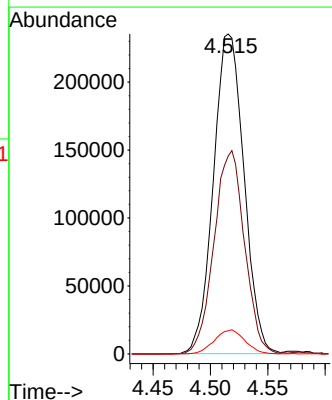
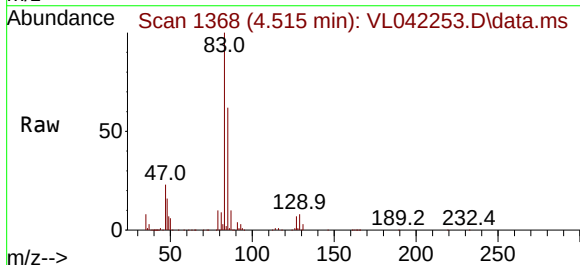
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

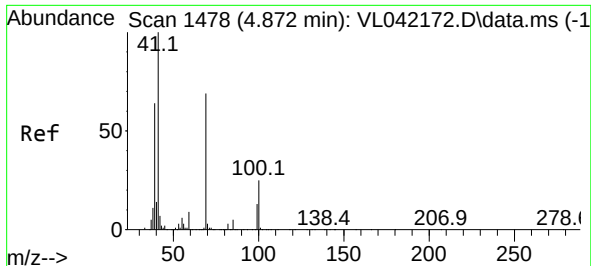
Tgt Ion: 42 Resp: 208736
Ion Ratio Lower Upper
42 100
72 36.5 31.4 47.0
71 35.6 30.2 45.4



#42
Bromodichloromethane
Concen: 11.230 ppbv
RT: 4.515 min Scan# 1368
Delta R.T. 0.032 min
Lab File: VL042253.D
Acq: 08 Apr 2025 08:39

Tgt Ion: 83 Resp: 436058
Ion Ratio Lower Upper
83 100
85 61.8 50.5 75.7
127 7.2 5.9 8.9

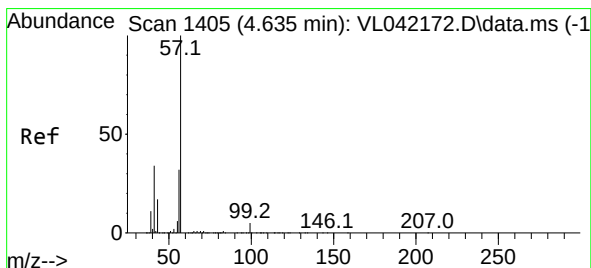
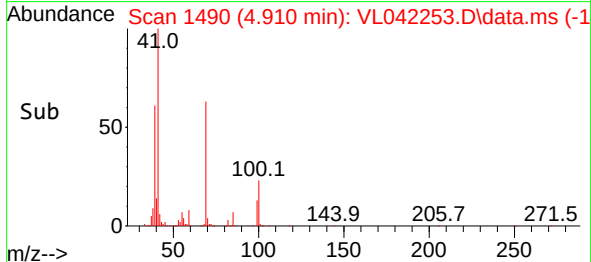
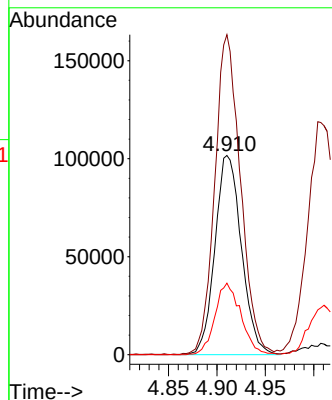
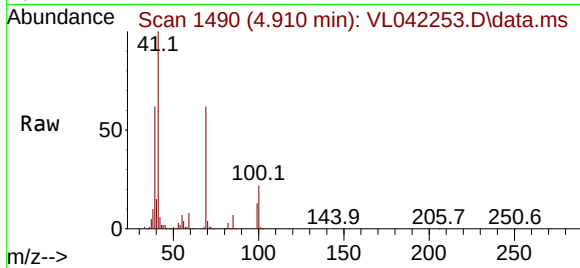




#43
Methyl Methacrylate
Concen: 9.288 ppbv
RT: 4.910 min Scan# 1490
Delta R.T. 0.039 min
Lab File: VL042253.D
Acq: 08 Apr 2025 08:39

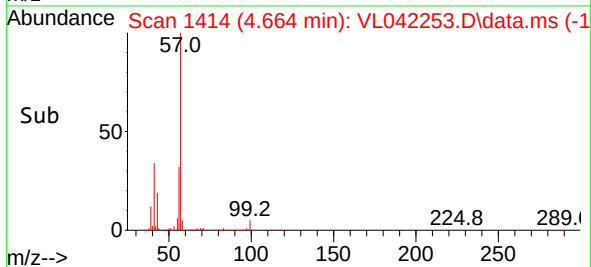
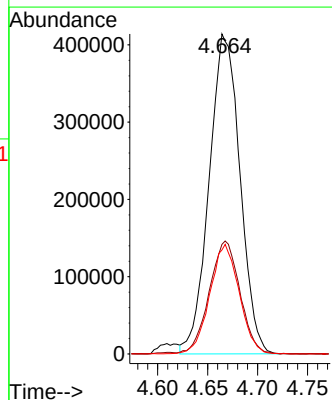
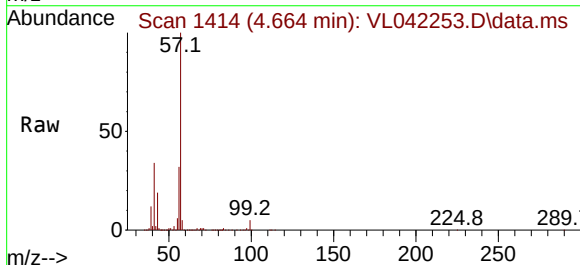
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

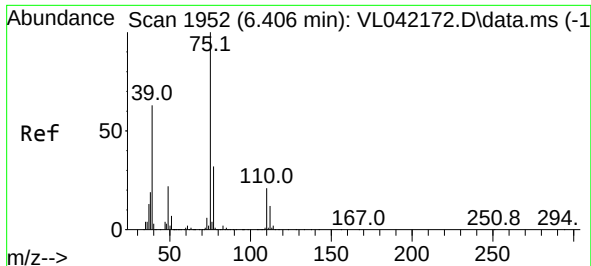
Tgt Ion: 69 Resp: 193449
Ion Ratio Lower Upper
69 100
41 156.1 123.8 185.6
100 35.2 28.4 42.6



#44
2,2,4-Trimethylpentane
Concen: 10.687 ppbv
RT: 4.664 min Scan# 1414
Delta R.T. 0.029 min
Lab File: VL042253.D
Acq: 08 Apr 2025 08:39

Tgt Ion: 57 Resp: 888509
Ion Ratio Lower Upper
57 100
41 35.5 26.8 40.2
56 32.8 25.6 38.4

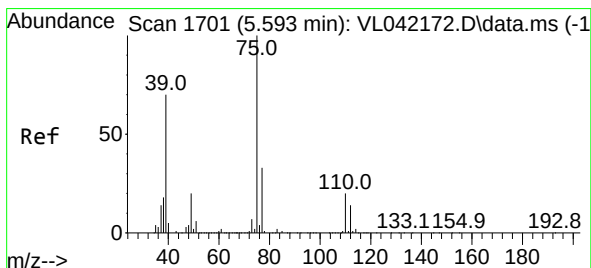
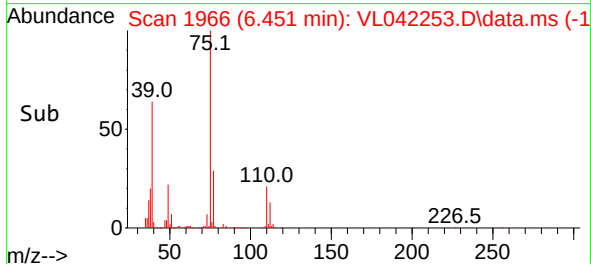
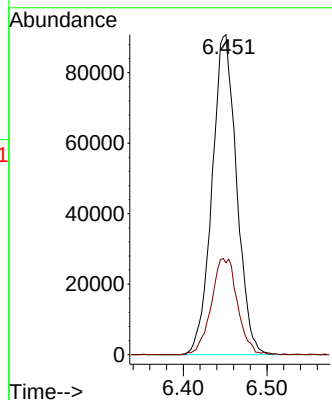
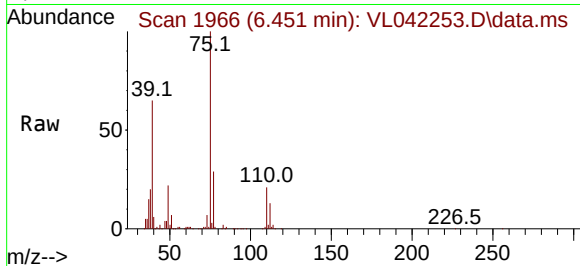




#45
 t-1,3-Dichloropropene
 Concen: 8.273 ppbv
 RT: 6.451 min Scan# 1966
 Delta R.T. 0.045 min
 Lab File: VL042253.D
 Acq: 08 Apr 2025 08:39

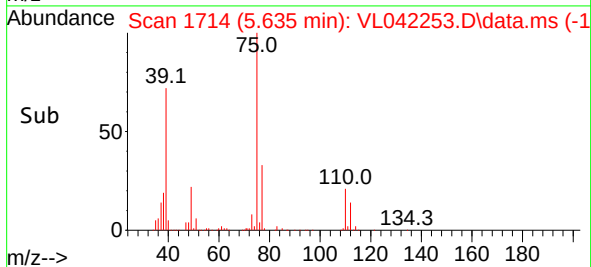
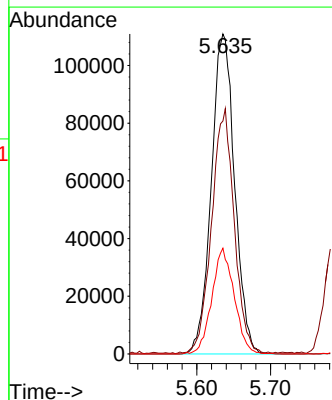
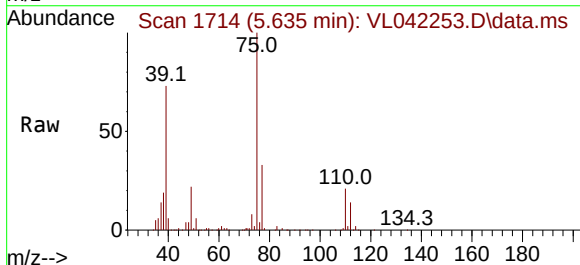
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

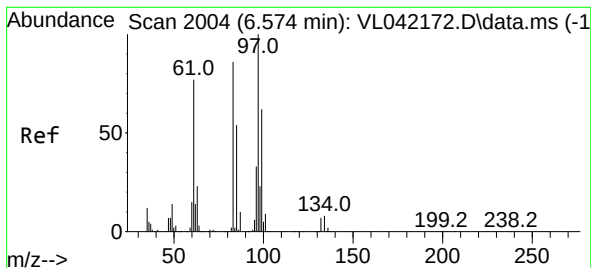
Tgt Ion: 75 Resp: 184866
 Ion Ratio Lower Upper
 75 100
 77 28.7 26.0 39.0



#46
 cis-1,3-Dichloropropene
 Concen: 8.880 ppbv
 RT: 5.635 min Scan# 1714
 Delta R.T. 0.042 min
 Lab File: VL042253.D
 Acq: 08 Apr 2025 08:39

Tgt Ion: 75 Resp: 243227
 Ion Ratio Lower Upper
 75 100
 39 72.4 55.8 83.6
 77 33.1 26.0 39.0





#47

1,1,2-Trichloroethane

Concen: 11.011 ppbv

RT: 6.613 min Scan# 20

Delta R.T. 0.039 min

Lab File: VL042253.D

Acq: 08 Apr 2025 08:39

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tgt Ion: 97 Resp: 208553

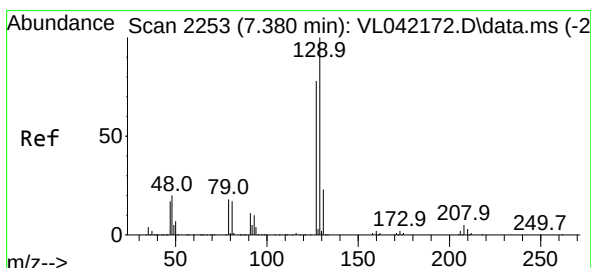
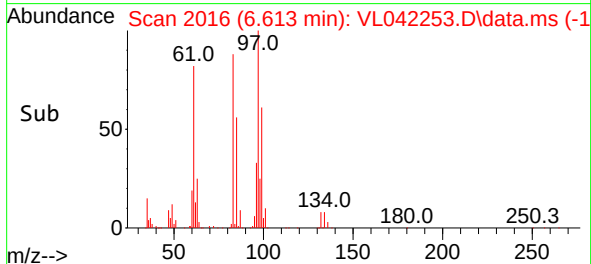
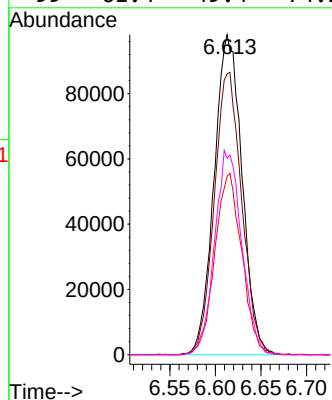
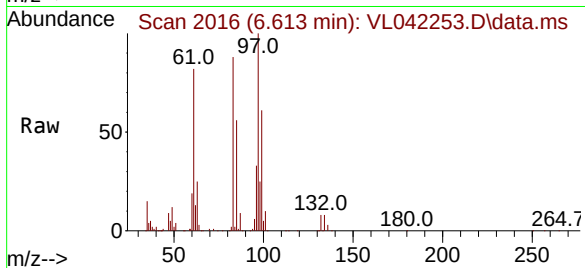
Ion Ratio Lower Upper

97 100

83 87.6 69.2 103.8

85 55.8 43.1 64.7

99 61.4 49.4 74.2



#48

Dibromochloromethane

Concen: 10.783 ppbv

RT: 7.415 min Scan# 2264

Delta R.T. 0.035 min

Lab File: VL042253.D

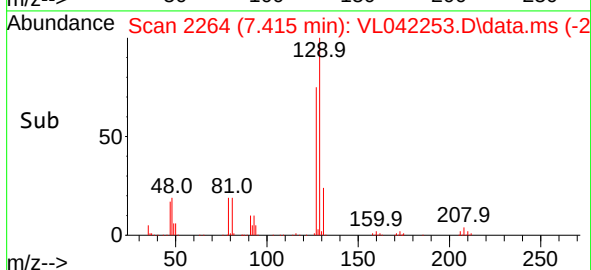
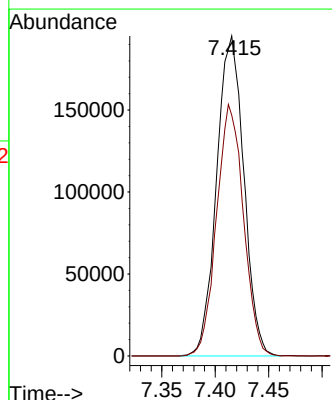
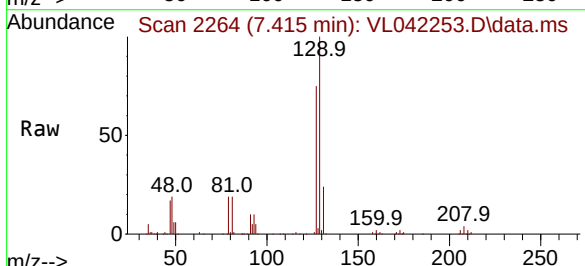
Acq: 08 Apr 2025 08:39

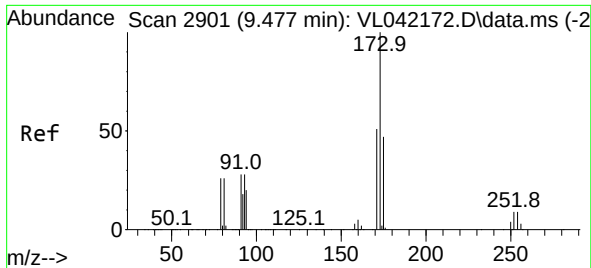
Tgt Ion: 129 Resp: 346117

Ion Ratio Lower Upper

129 100

127 77.6 39.1 117.2





#49

Bromoform

Concen: 10.395 ppbv

RT: 9.503 min Scan# 2901

Delta R.T. 0.026 min

Lab File: VL042253.D

Acq: 08 Apr 2025 08:39

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

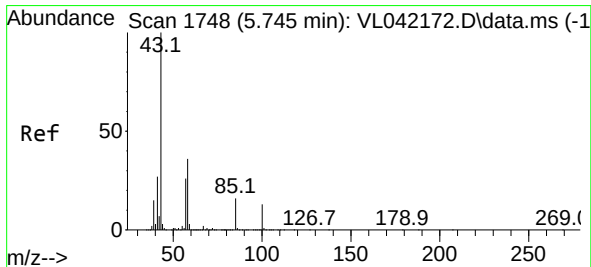
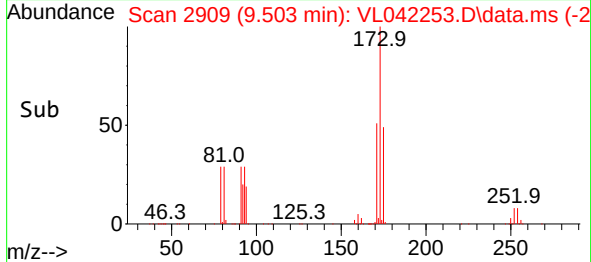
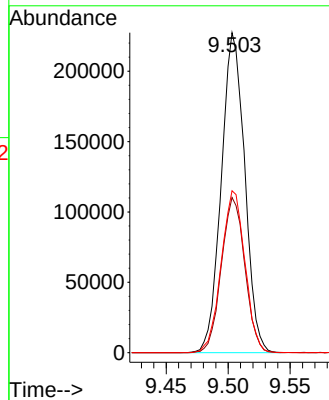
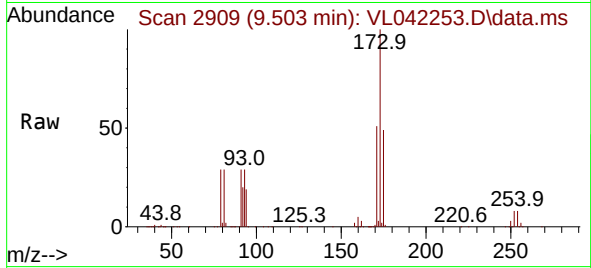
Tgt Ion:173 Resp: 299582

Ion Ratio Lower Upper

173 100

175 48.6 38.6 57.8

171 51.3 41.8 62.6



#50

4-Methyl-2-Pentanone

Concen: 9.519 ppbv

RT: 5.787 min Scan# 1761

Delta R.T. 0.042 min

Lab File: VL042253.D

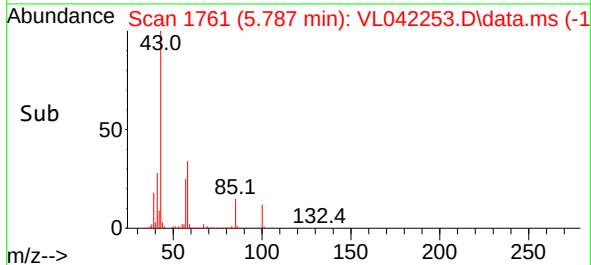
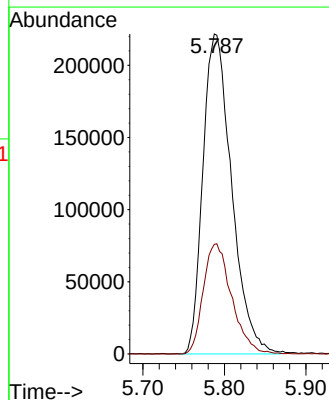
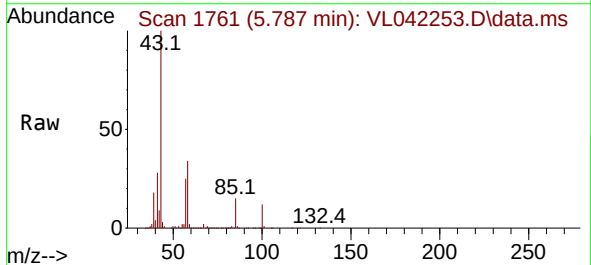
Acq: 08 Apr 2025 08:39

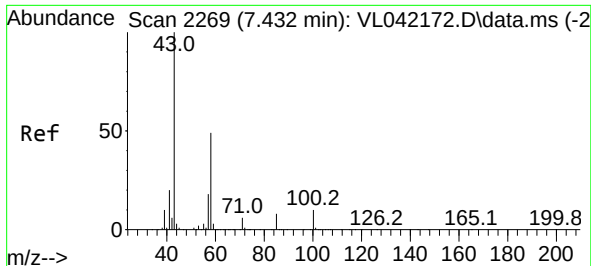
Tgt Ion: 43 Resp: 542853

Ion Ratio Lower Upper

43 100

58 34.0 29.0 43.6

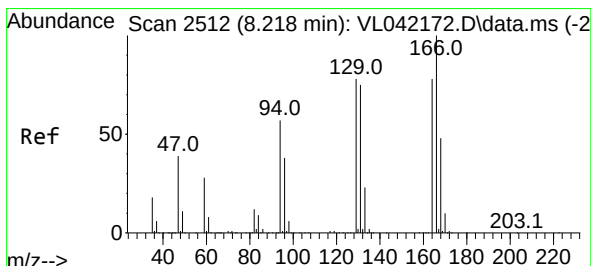
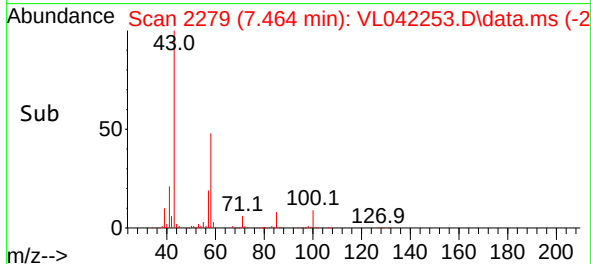
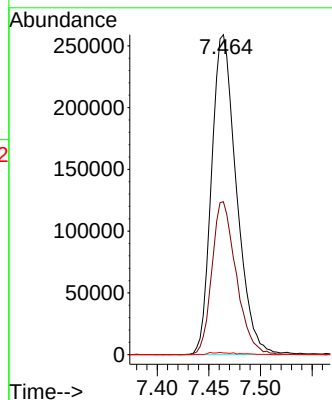
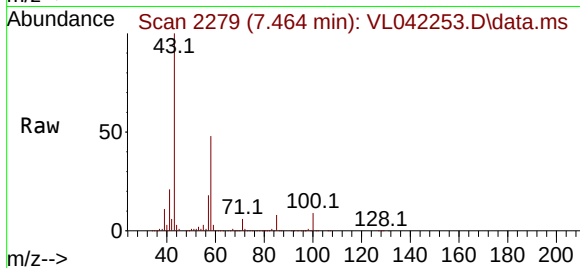




#51
2-Hexanone
Concen: 9.266 ppbv
RT: 7.464 min Scan# 21
Delta R.T. 0.032 min
Lab File: VL042253.D
Acq: 08 Apr 2025 08:39

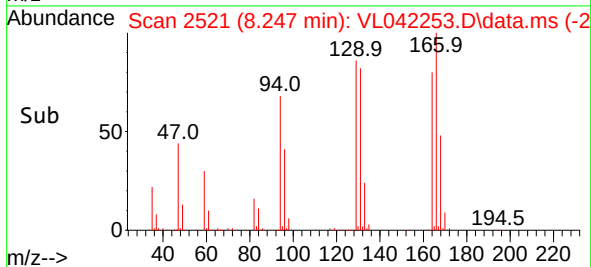
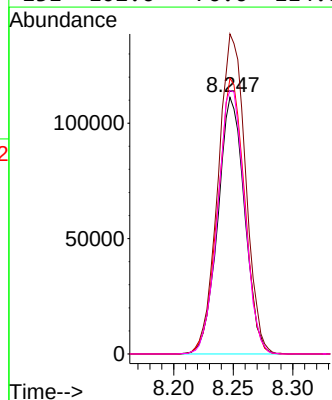
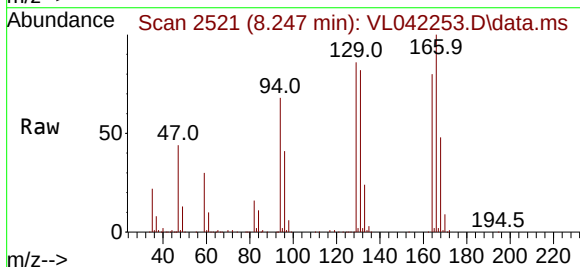
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

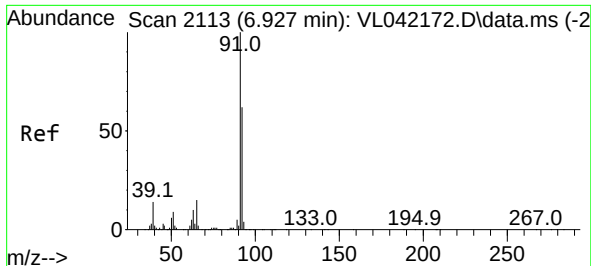
Tgt Ion: 43 Resp: 433929
Ion Ratio Lower Upper
43 100
58 46.9 39.7 59.5
98 0.8 0.1 0.1#



#52
Tetrachloroethene
Concen: 8.862 ppbv
RT: 8.247 min Scan# 2521
Delta R.T. 0.029 min
Lab File: VL042253.D
Acq: 08 Apr 2025 08:39

Tgt Ion:164 Resp: 172915
Ion Ratio Lower Upper
164 100
166 124.7 102.5 153.7
129 107.4 79.8 119.8
131 102.6 76.6 114.8

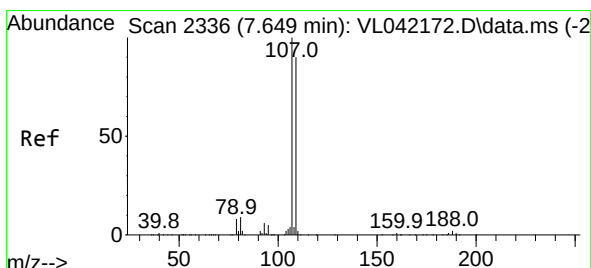
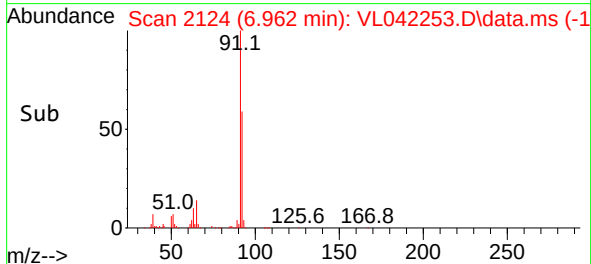
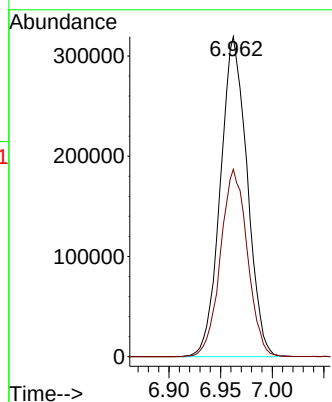
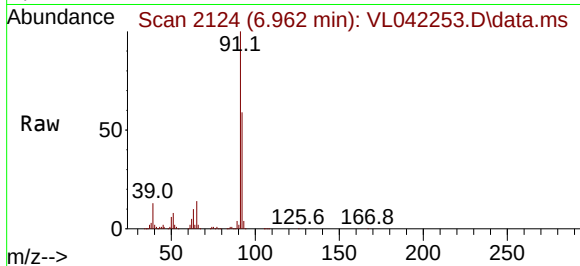




#53
Toluene
Concen: 9.853 ppbv
RT: 6.962 min Scan# 2113
Delta R.T. 0.035 min
Lab File: VL042253.D
Acq: 08 Apr 2025 08:39

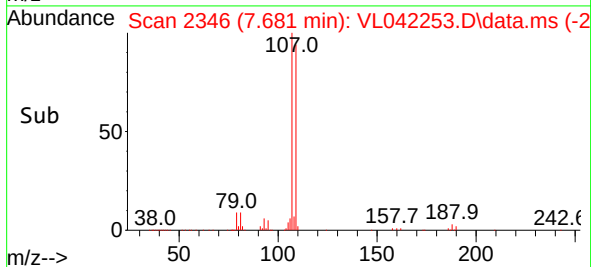
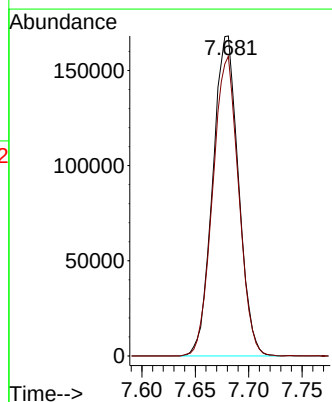
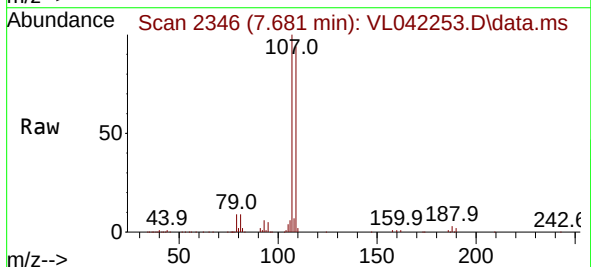
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

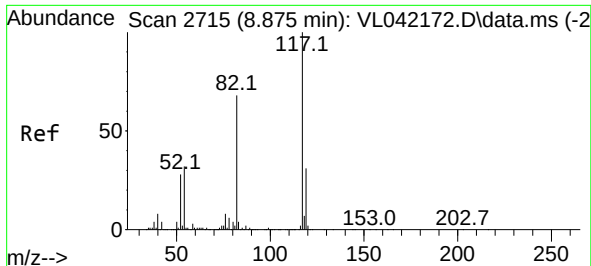
Tgt Ion: 91 Resp: 574664
Ion Ratio Lower Upper
91 100
92 59.1 48.4 72.6



#54
1,2-Dibromoethane
Concen: 10.659 ppbv
RT: 7.681 min Scan# 2346
Delta R.T. 0.032 min
Lab File: VL042253.D
Acq: 08 Apr 2025 08:39

Tgt Ion: 107 Resp: 281436
Ion Ratio Lower Upper
107 100
109 93.6 72.2 108.4

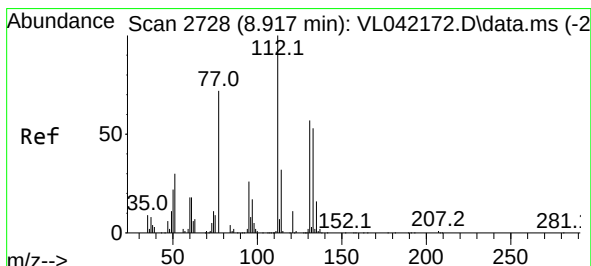
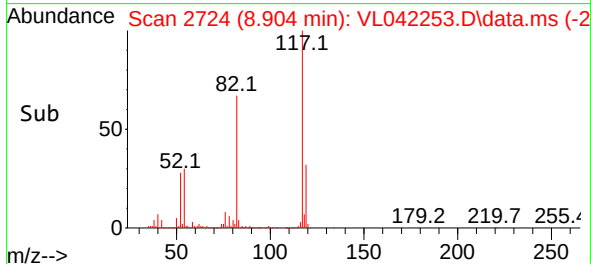
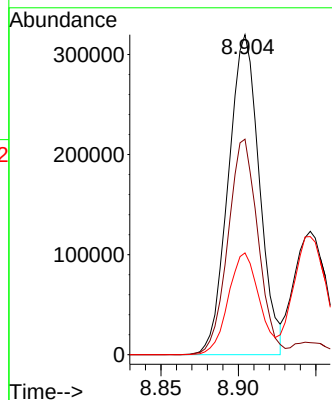
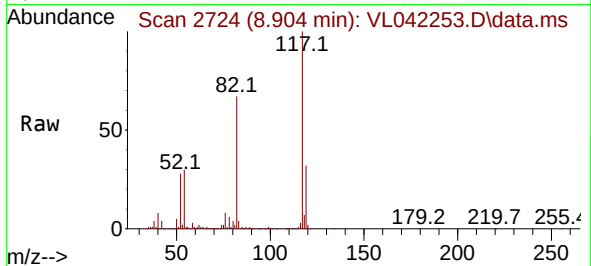




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.904 min Scan# 2173
Delta R.T. 0.029 min
Lab File: VL042253.D
Acq: 08 Apr 2025 08:39

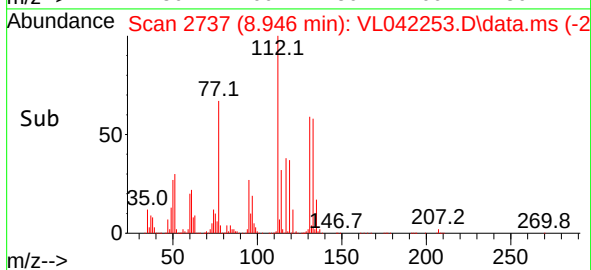
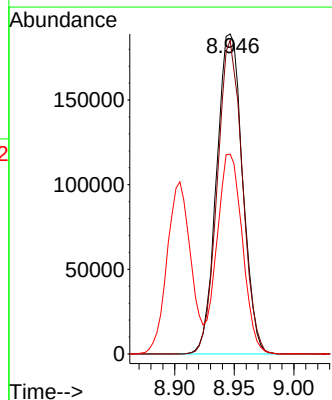
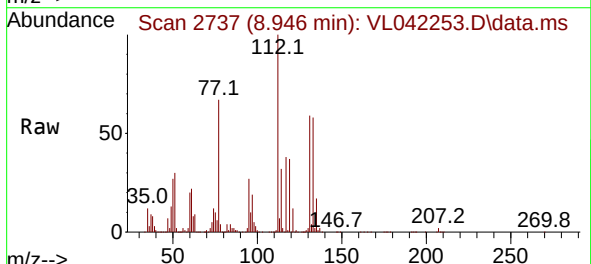
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

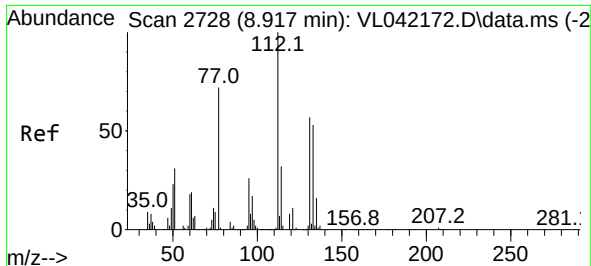
Tgt Ion:117 Resp: 446954
Ion Ratio Lower Upper
117 100
82 69.4 55.8 83.6
119 31.7 25.5 38.3



#56
1,1,1,2-Tetrachloroethane
Concen: 11.647 ppbv
RT: 8.946 min Scan# 2737
Delta R.T. 0.029 min
Lab File: VL042253.D
Acq: 08 Apr 2025 08:39

Tgt Ion:131 Resp: 286554
Ion Ratio Lower Upper
131 100
133 94.6 76.6 114.8
119 62.4 49.8 74.6

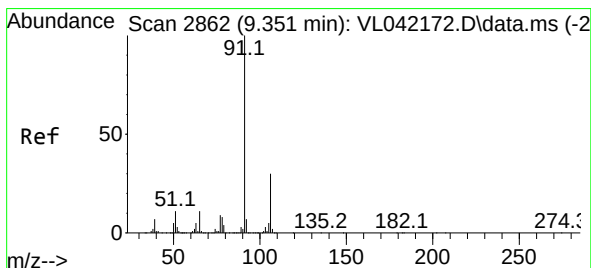
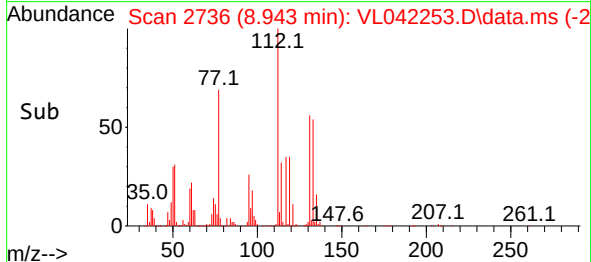
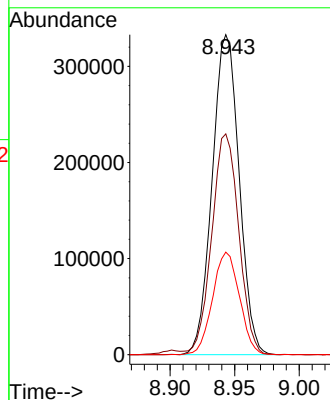
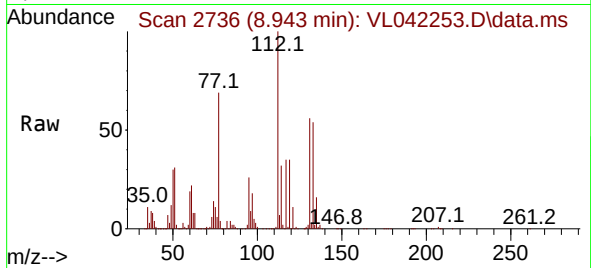




#57
Chlorobenzene
Concen: 11.411 ppbv
RT: 8.943 min Scan# 21
Delta R.T. 0.026 min
Lab File: VL042253.D
Acq: 08 Apr 2025 08:39

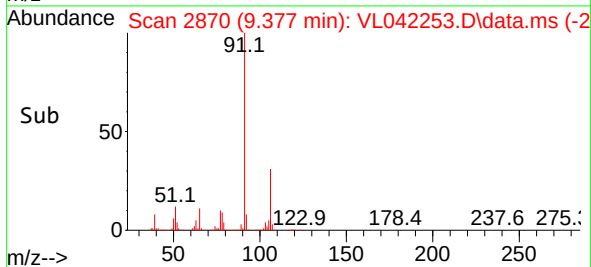
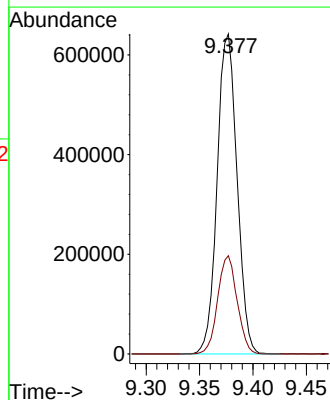
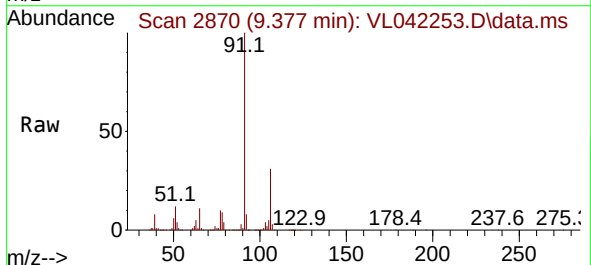
Instrument :
MSVOA_1
ClientSampleId :
VSTDCCC010

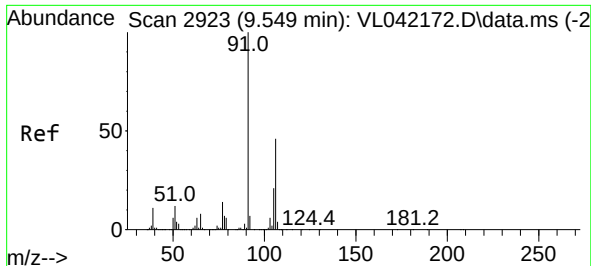
Tgt Ion:112 Resp: 483780
Ion Ratio Lower Upper
112 100
77 69.0 58.2 87.2
114 32.1 29.1 35.5



#58
Ethyl Benzene
Concen: 10.479 ppbv
RT: 9.377 min Scan# 2870
Delta R.T. 0.026 min
Lab File: VL042253.D
Acq: 08 Apr 2025 08:39

Tgt Ion: 91 Resp: 831947
Ion Ratio Lower Upper
91 100
106 30.7 24.2 36.2





#59

m/p-Xylene

Concen: 10.839 ppbv

RT: 9.571 min Scan# 2923

Delta R.T. 0.023 min

Lab File: VL042253.D

Acq: 08 Apr 2025 08:39

Instrument :

MSVOA_L

ClientSampleId :

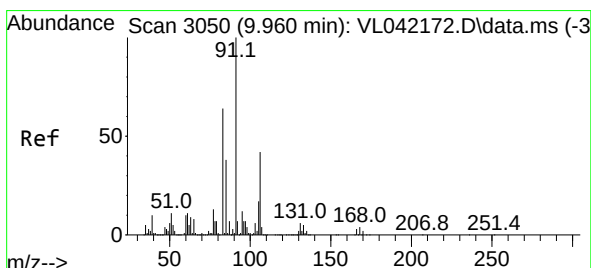
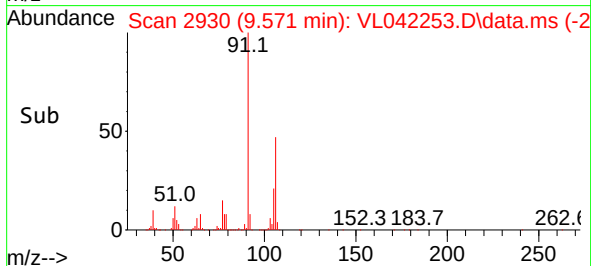
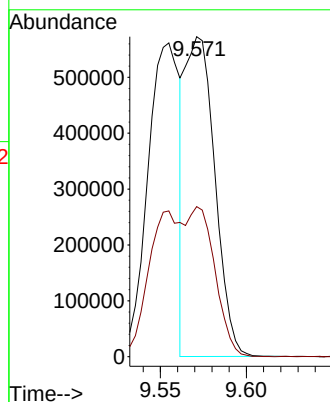
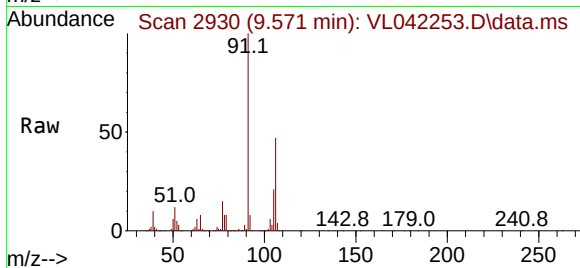
VSTDCCC010

Tgt Ion: 91 Resp: 687151

Ion Ratio Lower Upper

91 100

106 95.4 36.4 54.6#



#60

o-Xylene

Concen: 10.958 ppbv

RT: 9.982 min Scan# 3057

Delta R.T. 0.023 min

Lab File: VL042253.D

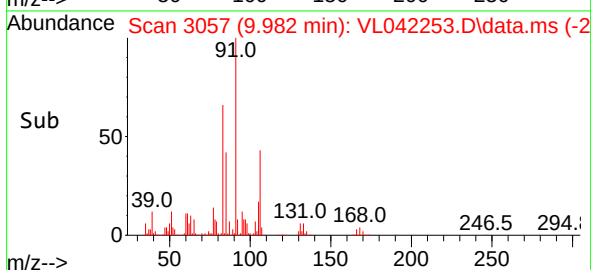
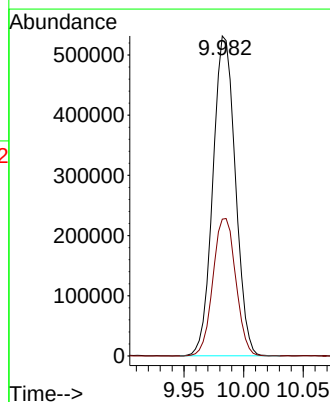
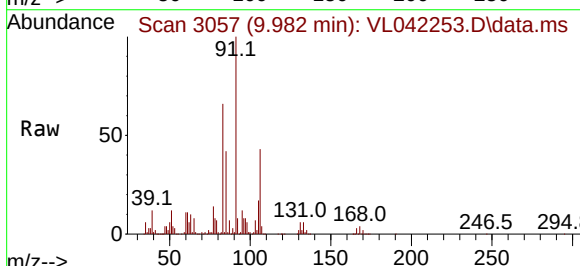
Acq: 08 Apr 2025 08:39

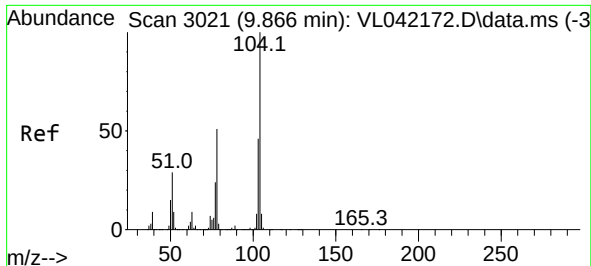
Tgt Ion: 91 Resp: 696371

Ion Ratio Lower Upper

91 100

106 43.8 20.8 62.5





#61

Styrene

Concen: 9.965 ppbv

RT: 9.891 min Scan# 3021

Delta R.T. 0.026 min

Lab File: VL042253.D

Acq: 08 Apr 2025 08:39

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

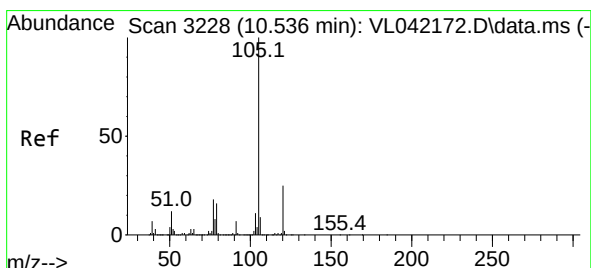
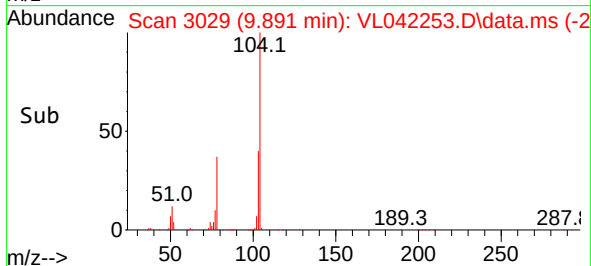
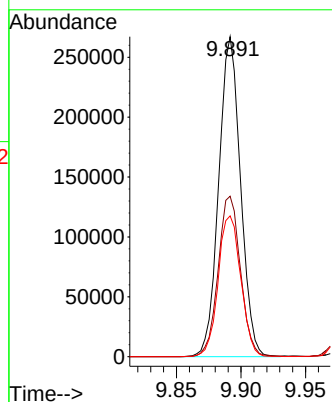
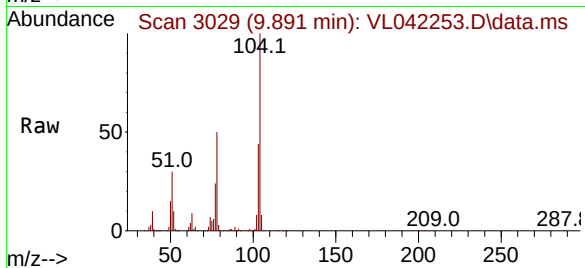
Tgt Ion:104 Resp: 313307

Ion Ratio Lower Upper

104 100

78 51.4 41.8 62.6

103 45.8 37.0 55.4



#62

Isopropylbenzene

Concen: 10.988 ppbv

RT: 10.558 min Scan# 3235

Delta R.T. 0.023 min

Lab File: VL042253.D

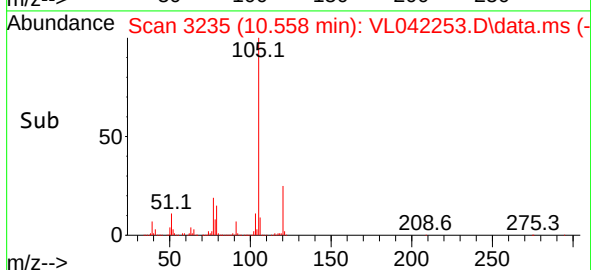
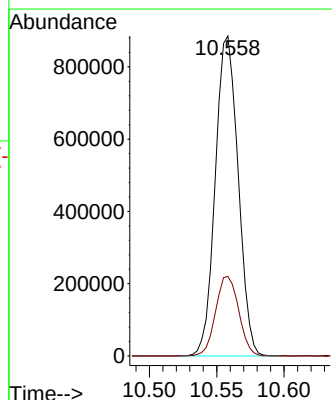
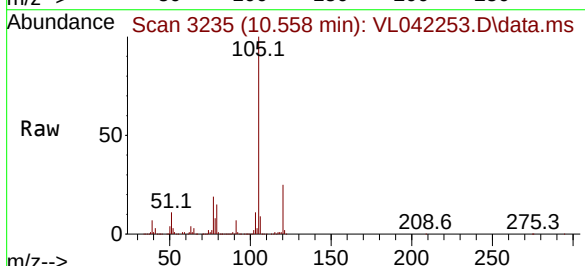
Acq: 08 Apr 2025 08:39

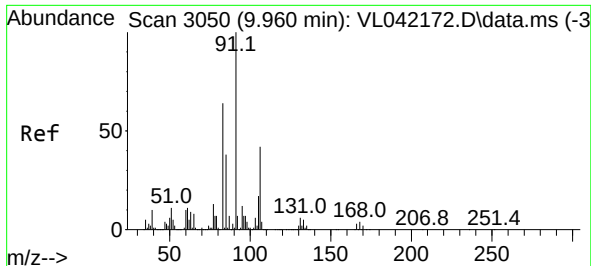
Tgt Ion:105 Resp: 1044218

Ion Ratio Lower Upper

105 100

120 25.2 19.9 29.9

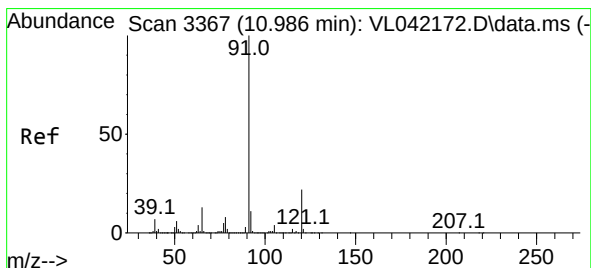
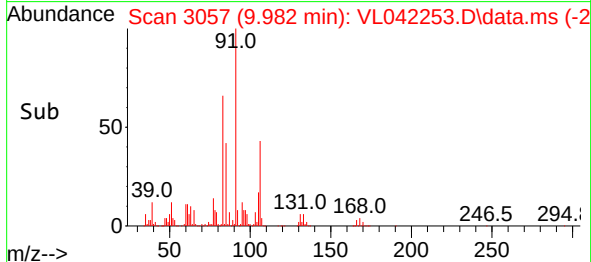
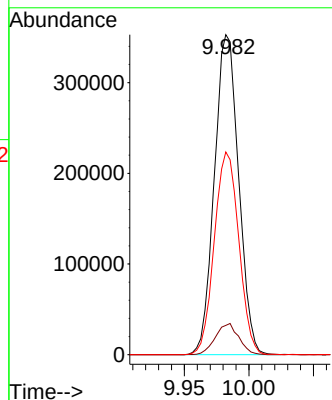
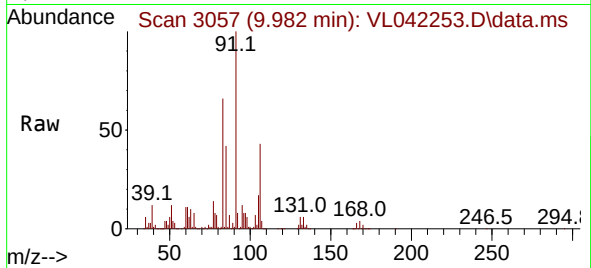




#63
1,1,2,2-Tetrachloroethane
Concen: 11.938 ppbv
RT: 9.982 min Scan# 3057
Delta R.T. 0.023 min
Lab File: VL042253.D
Acq: 08 Apr 2025 08:39

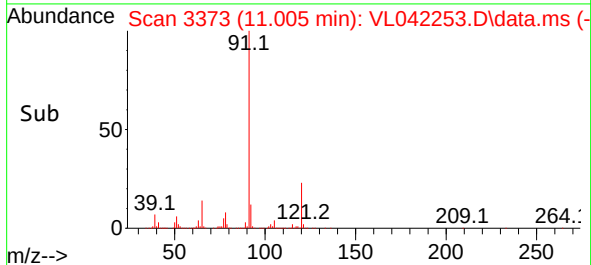
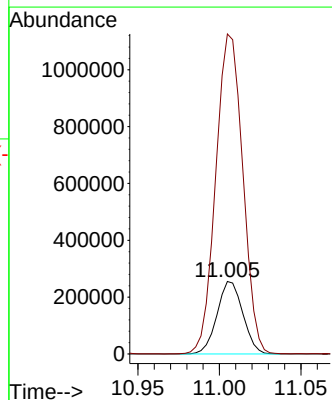
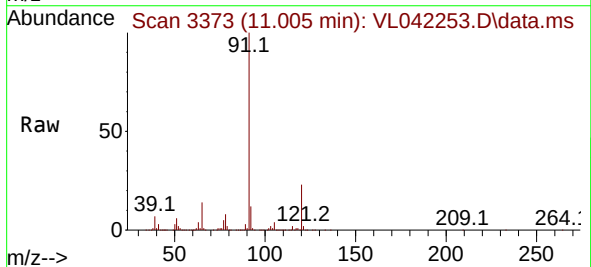
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

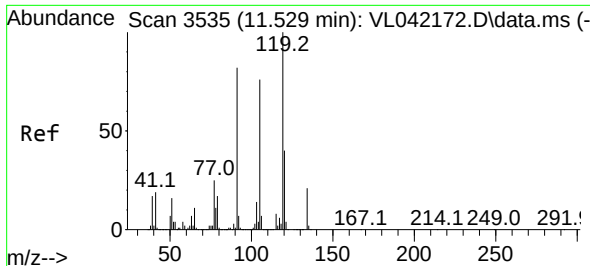
Tgt Ion: 83 Resp: 460968
Ion Ratio Lower Upper
83 100
131 9.4 4.8 14.4
85 64.0 32.5 97.5



#64
n-propylbenzene
Concen: 11.439 ppbv
RT: 11.005 min Scan# 3373
Delta R.T. 0.019 min
Lab File: VL042253.D
Acq: 08 Apr 2025 08:39

Tgt Ion: 120 Resp: 279848
Ion Ratio Lower Upper
120 100
91 464.8 376.9 565.3

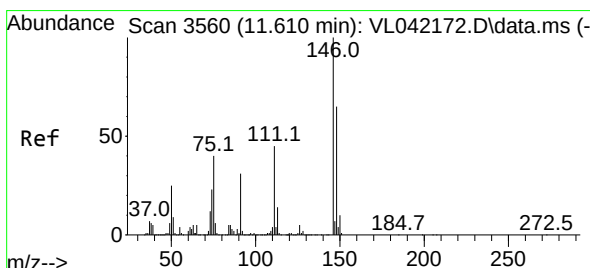
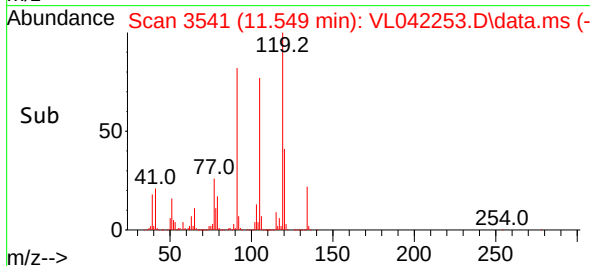
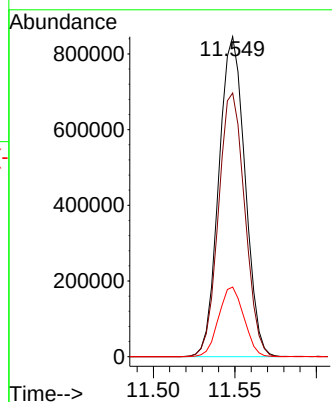
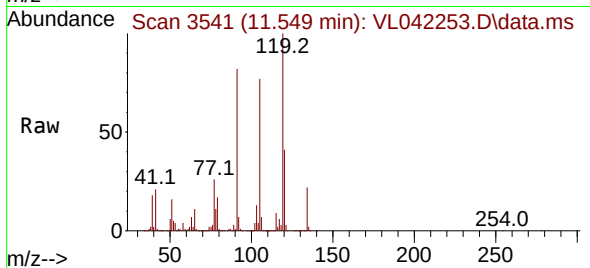




#65
tert-Butylbenzene
Concen: 10.755 ppbv
RT: 11.549 min Scan# 3541
Delta R.T. 0.019 min
Lab File: VL042253.D
Acq: 08 Apr 2025 08:39

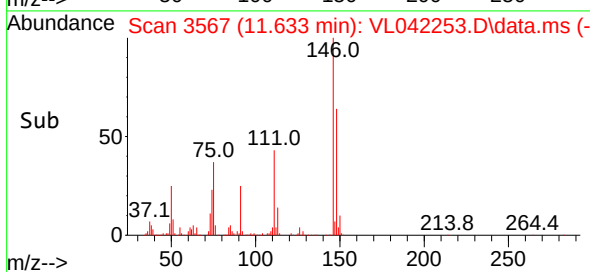
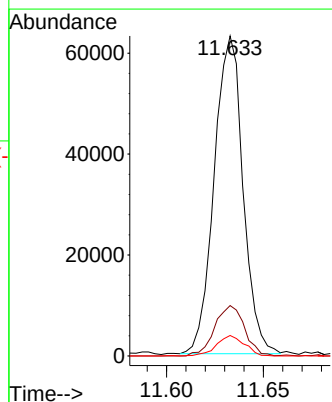
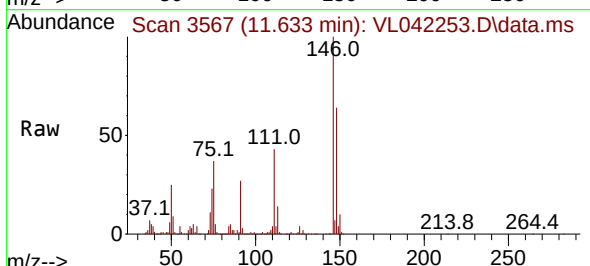
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

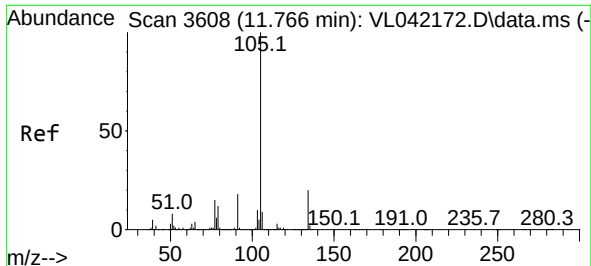
Tgt Ion:119 Resp: 945232
Ion Ratio Lower Upper
119 100
91 82.7 66.0 99.0
134 21.0 16.7 25.1



#66
Benzyl Chloride
Concen: 6.992 ppbv
RT: 11.633 min Scan# 3567
Delta R.T. 0.023 min
Lab File: VL042253.D
Acq: 08 Apr 2025 08:39

Tgt Ion: 91 Resp: 65203
Ion Ratio Lower Upper
91 100
126 16.6 13.8 20.6
128 6.3 4.5 6.7





#67

sec-Butylbenzene

Concen: 10.994 ppbv

RT: 11.785 min Scan# 3

Delta R.T. 0.019 min

Lab File: VL042253.D

Acq: 08 Apr 2025 08:39

Instrument :

MSVOA_L

ClientSampleId :

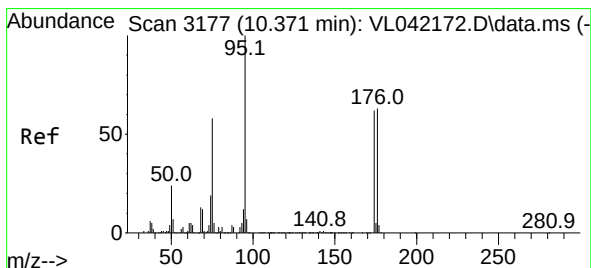
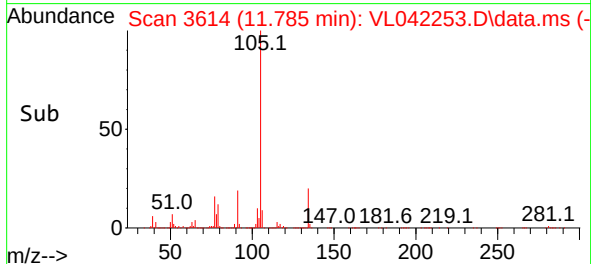
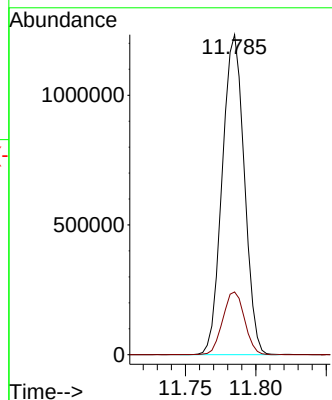
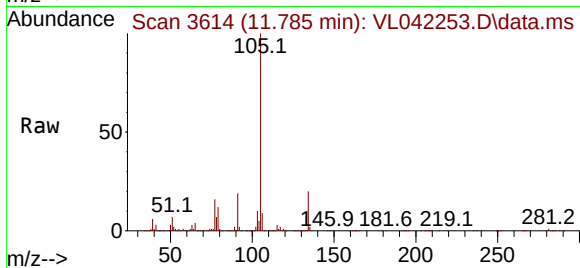
VSTDCCC010

Tgt Ion:105 Resp: 1343060

Ion Ratio Lower Upper

105 100

134 19.4 15.5 23.3



#68

1-Bromo-4-Fluorobenzene

Concen: 9.991 ppbv

RT: 10.393 min Scan# 3184

Delta R.T. 0.023 min

Lab File: VL042253.D

Acq: 08 Apr 2025 08:39

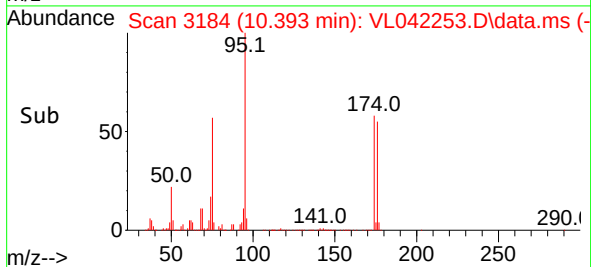
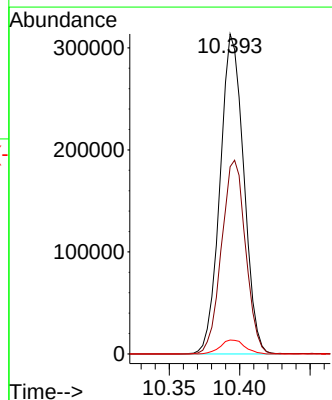
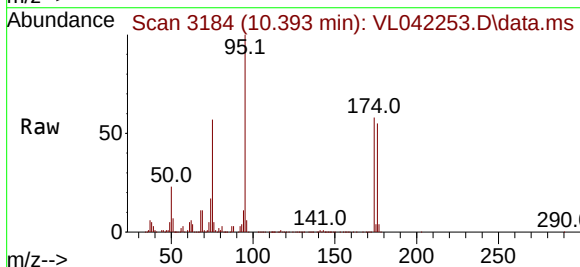
Tgt Ion: 95 Resp: 366722

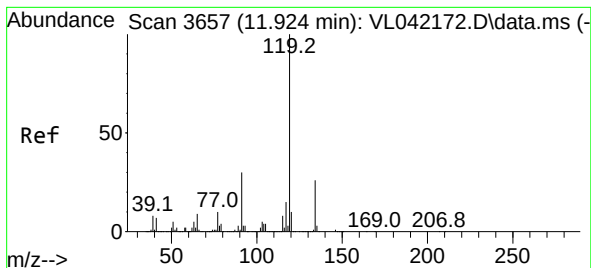
Ion Ratio Lower Upper

95 100

174 61.7 50.6 76.0

175 4.5 3.8 5.6

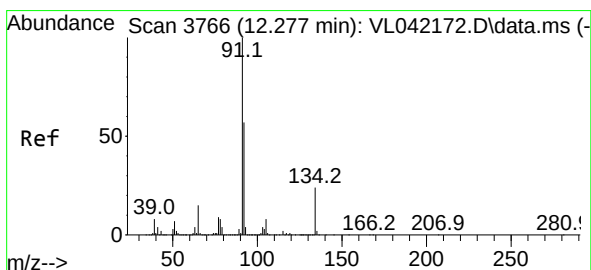
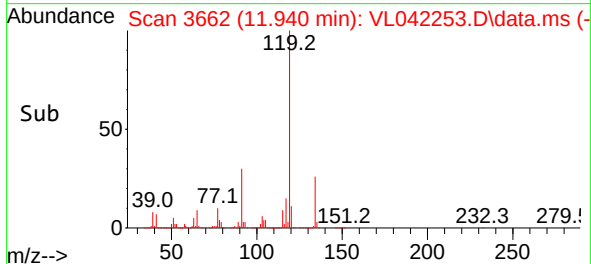
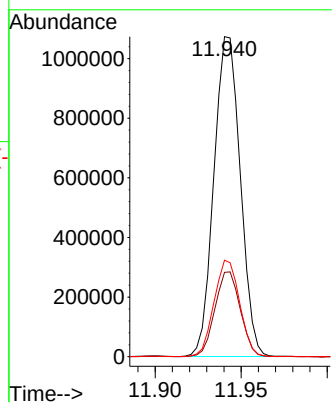
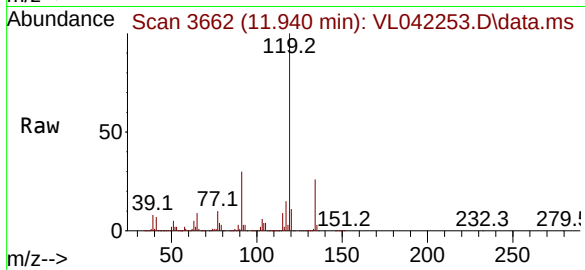




#69
 p-Isopropyltoluene
 Concen: 10.882 ppbv
 RT: 11.940 min Scan# 3662
 Delta R.T. 0.016 min
 Lab File: VL042253.D
 Acq: 08 Apr 2025 08:39

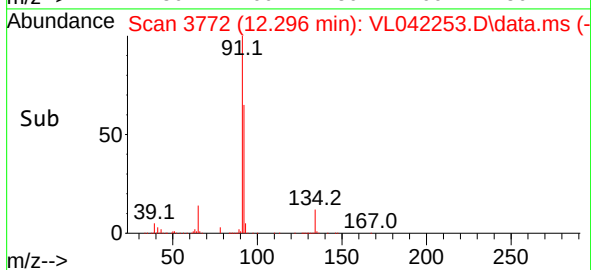
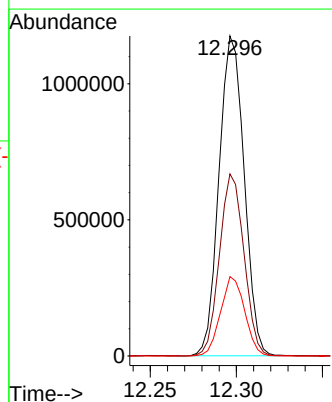
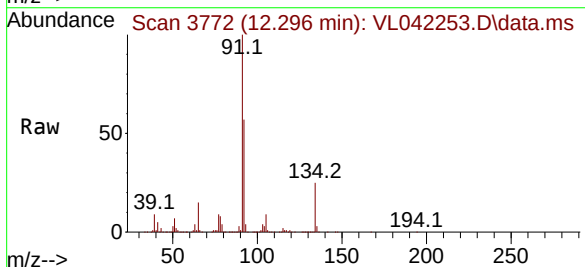
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

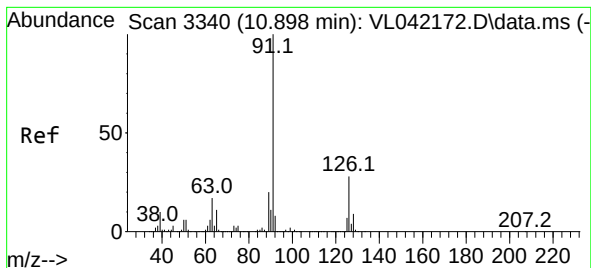
Tgt Ion:119 Resp: 1144759
 Ion Ratio Lower Upper
 119 100
 134 25.7 20.4 30.6
 91 29.3 23.7 35.5



#70
 n-Butylbenzene
 Concen: 11.103 ppbv
 RT: 12.296 min Scan# 3772
 Delta R.T. 0.019 min
 Lab File: VL042253.D
 Acq: 08 Apr 2025 08:39

Tgt Ion: 91 Resp: 1194481
 Ion Ratio Lower Upper
 91 100
 92 55.7 44.9 67.3
 134 23.8 19.2 28.8





#71

2-Chlorotoluene

Concen: 10.935 ppbv

RT: 10.918 min Scan# 31

Delta R.T. 0.019 min

Lab File: VL042253.D

Acq: 08 Apr 2025 08:39

Instrument :

MSVOA_L

ClientSampleId :

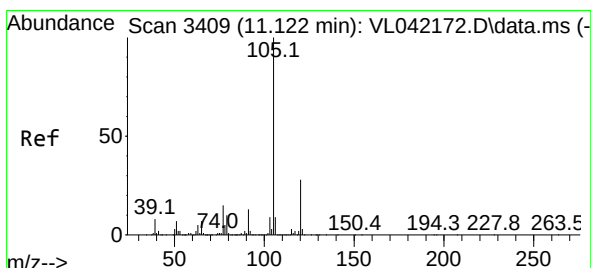
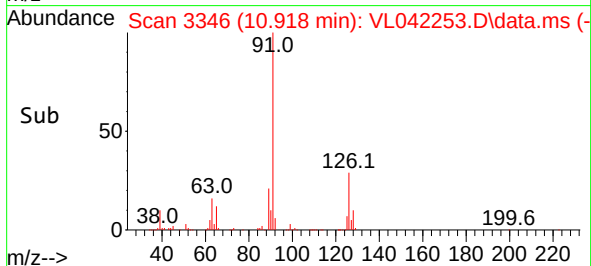
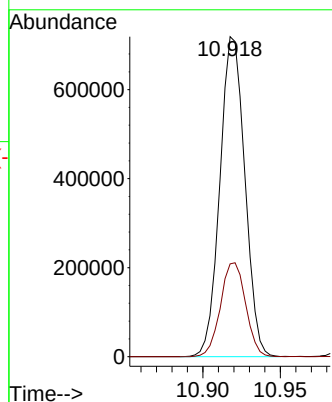
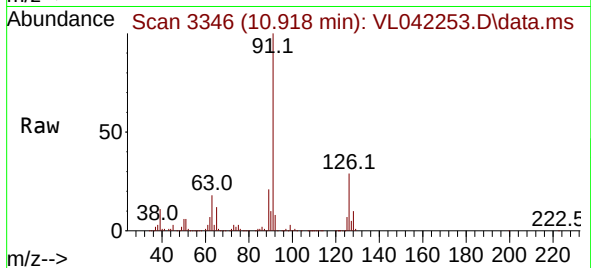
VSTDCCC010

Tgt Ion: 91 Resp: 806572

Ion Ratio Lower Upper

91 100

126 29.6 11.6 46.4



#72

4-Ethyltoluene

Concen: 11.190 ppbv

RT: 11.141 min Scan# 3415

Delta R.T. 0.019 min

Lab File: VL042253.D

Acq: 08 Apr 2025 08:39

Tgt Ion: 105 Resp: 885452

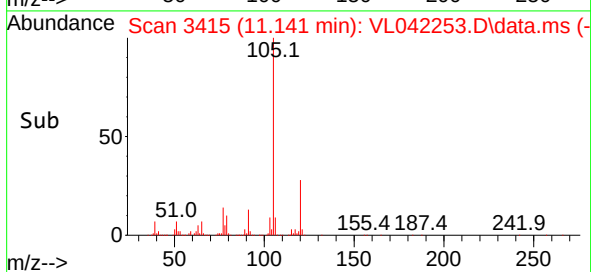
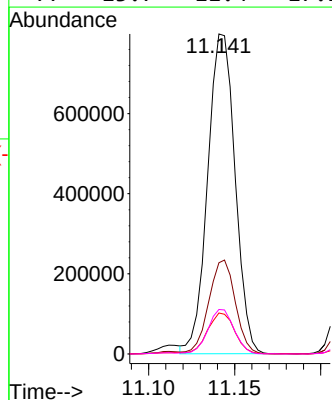
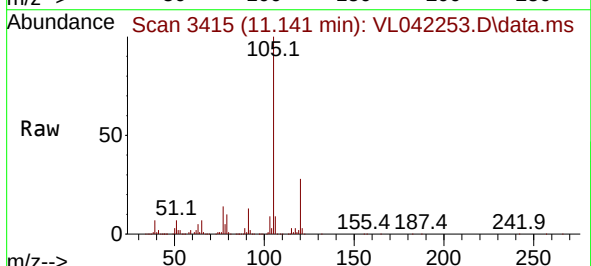
Ion Ratio Lower Upper

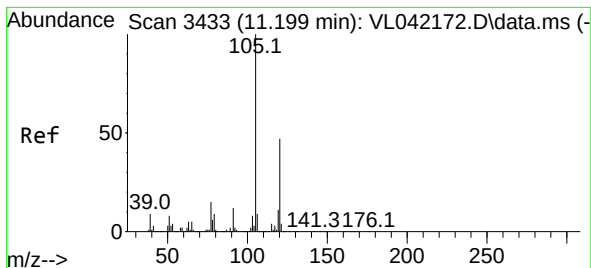
105 100

120 29.1 23.4 35.0

91 13.2 10.3 15.5

77 13.7 11.4 17.2





#73

1,3,5-Trimethylbenzene

Concen: 11.080 ppbv

RT: 11.222 min Scan# 3433

Delta R.T. 0.023 min

Lab File: VL042253.D

Acq: 08 Apr 2025 08:39

Instrument :

MSVOA_1

ClientSampleId :

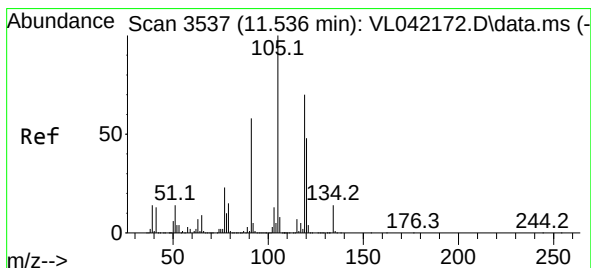
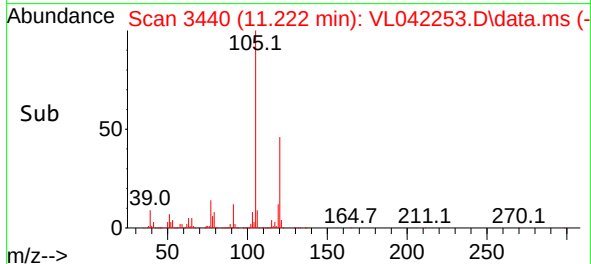
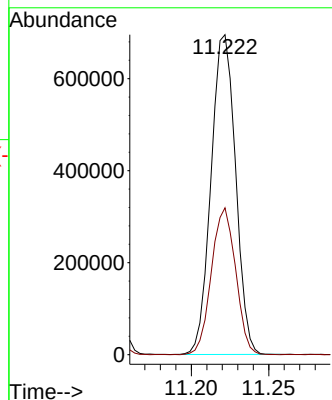
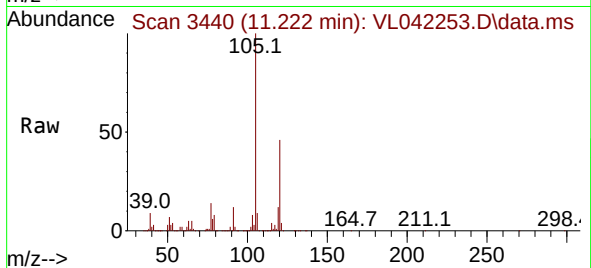
VSTDCCC010

Tgt Ion:105 Resp: 765708

Ion Ratio Lower Upper

105 100

120 45.9 37.4 56.0



#74

1,2,4-Trimethylbenzene

Concen: 10.660 ppbv

RT: 11.555 min Scan# 3543

Delta R.T. 0.019 min

Lab File: VL042253.D

Acq: 08 Apr 2025 08:39

Tgt Ion:105 Resp: 848667

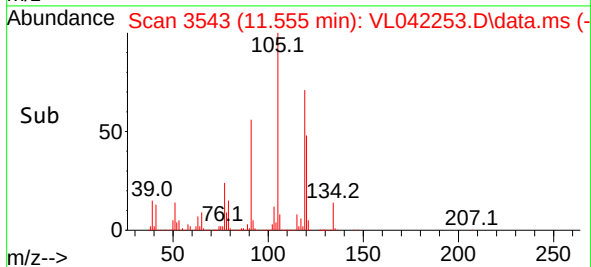
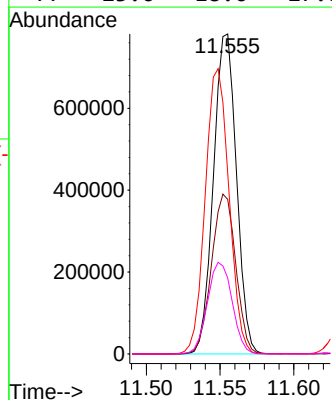
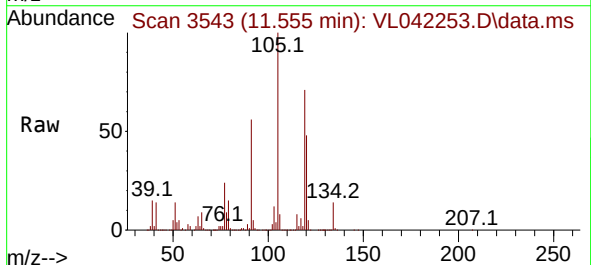
Ion Ratio Lower Upper

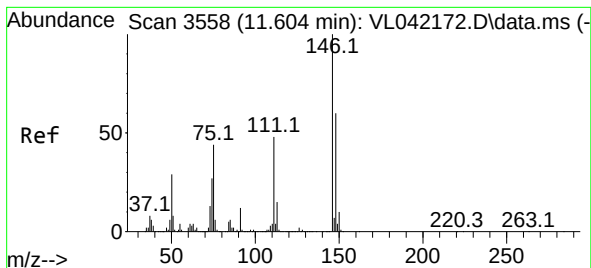
105 100

120 48.3 38.6 58.0

91 56.4 46.2 69.2

77 23.6 18.6 27.8





#75

1,3-Dichlorobenzene

Concen: 11.584 ppbv

RT: 11.626 min Scan# 3558

Delta R.T. 0.023 min

Lab File: VL042253.D

Acq: 08 Apr 2025 08:39

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

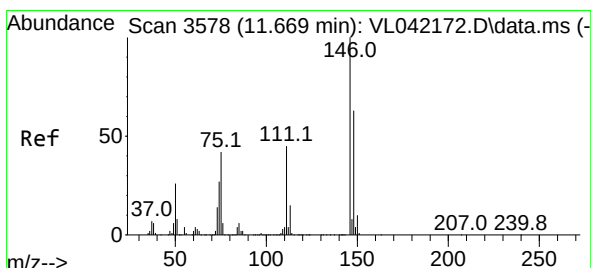
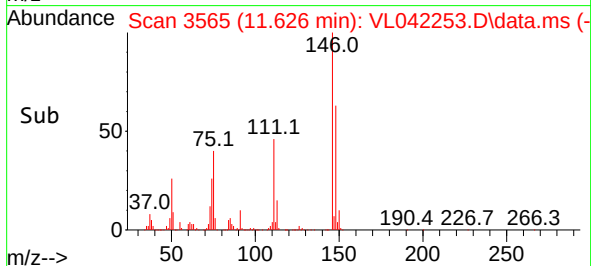
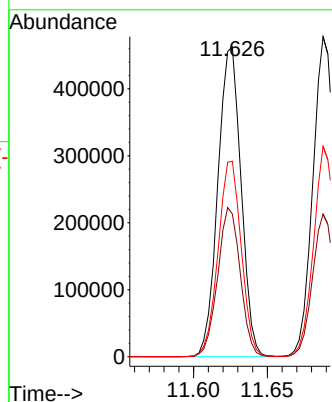
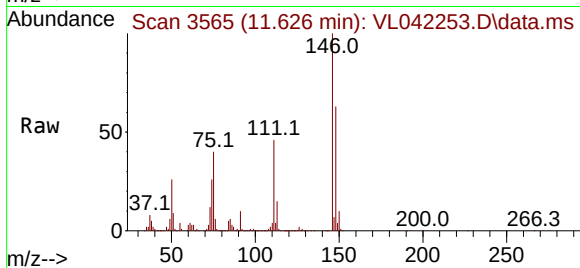
Tgt Ion:146 Resp: 505824

Ion Ratio Lower Upper

146 100

111 46.9 23.8 71.2

148 62.9 31.9 95.9



#76

1,4-Dichlorobenzene

Concen: 11.634 ppbv

RT: 11.688 min Scan# 3584

Delta R.T. 0.019 min

Lab File: VL042253.D

Acq: 08 Apr 2025 08:39

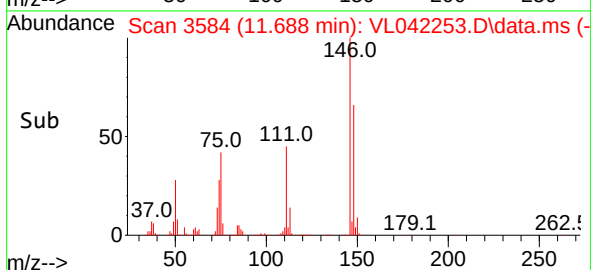
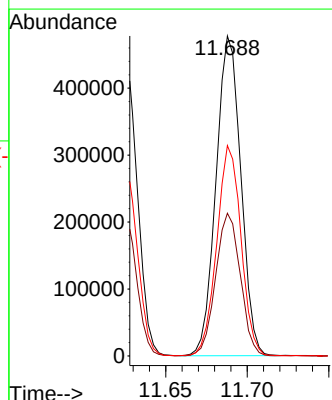
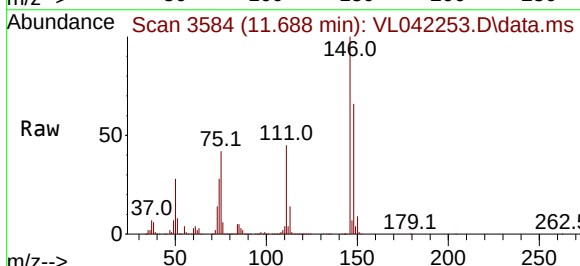
Tgt Ion:146 Resp: 505562

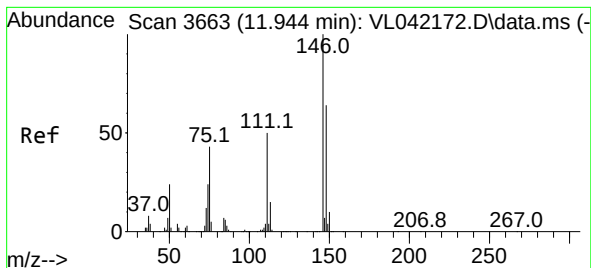
Ion Ratio Lower Upper

146 100

111 44.5 23.0 69.0

148 64.5 31.9 95.7





#77

1,2-Dichlorobenzene

Concen: 11.837 ppbv

RT: 11.963 min Scan# 3

Delta R.T. 0.019 min

Lab File: VL042253.D

Acq: 08 Apr 2025 08:39

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

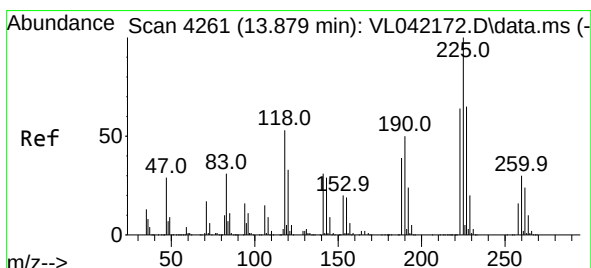
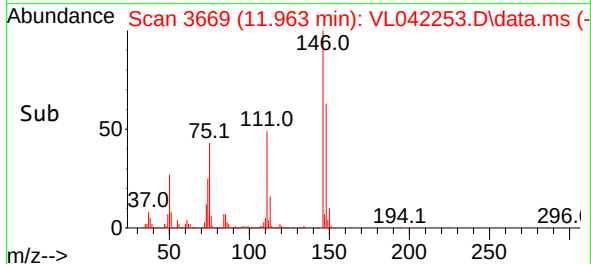
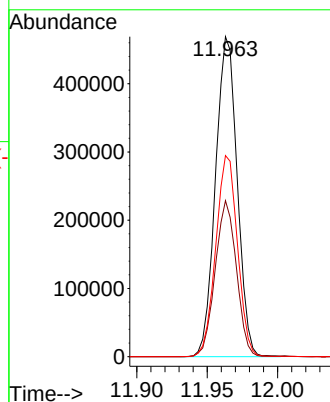
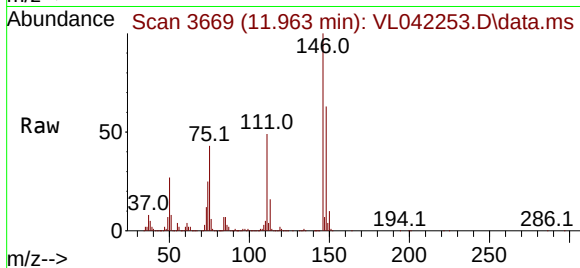
Tgt Ion:146 Resp: 503274

Ion Ratio Lower Upper

146 100

111 47.8 24.8 74.3

148 63.0 31.6 94.8



#78

Hexachloro-1,3-Butadiene

Concen: 9.223 ppbv

RT: 13.895 min Scan# 4266

Delta R.T. 0.016 min

Lab File: VL042253.D

Acq: 08 Apr 2025 08:39

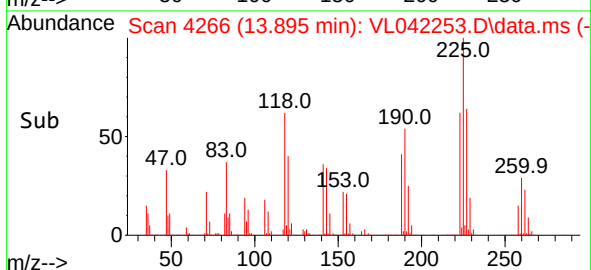
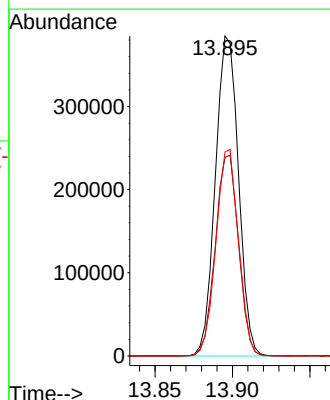
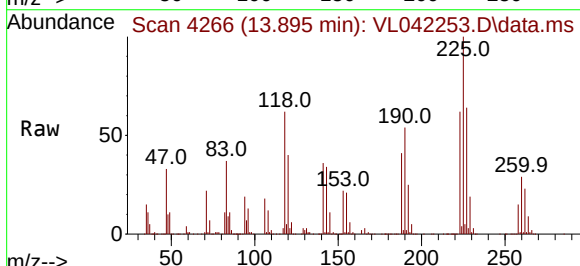
Tgt Ion:225 Resp: 399147

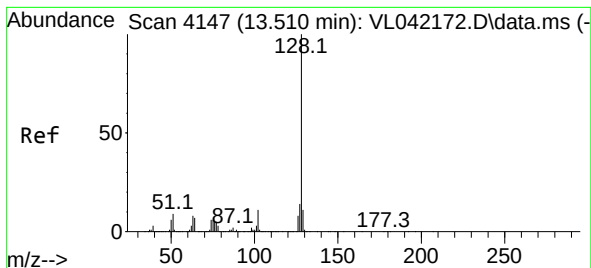
Ion Ratio Lower Upper

225 100

223 62.9 50.6 76.0

227 62.9 51.2 76.8





#79

Naphthalene

Concen: 11.108 ppbv

RT: 13.529 min Scan# 41

Delta R.T. 0.019 min

Lab File: VL042253.D

Acq: 08 Apr 2025 08:39

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

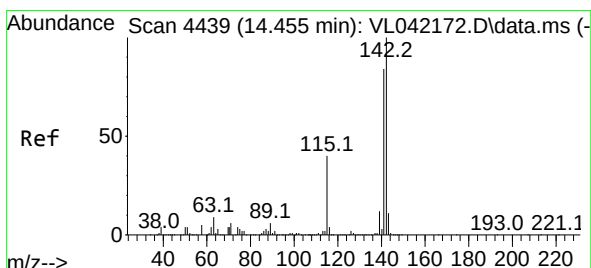
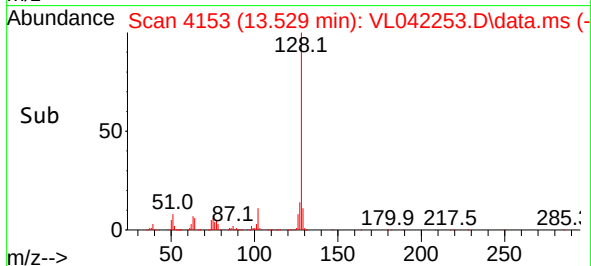
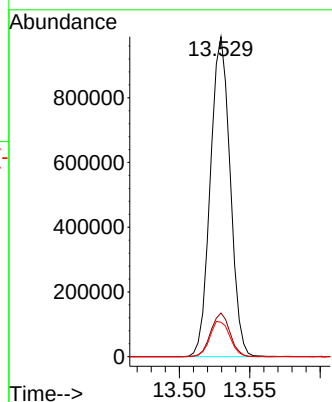
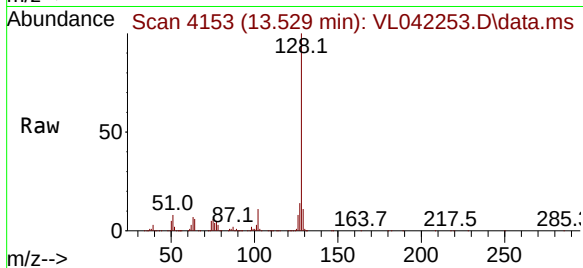
Tgt Ion:128 Resp: 967317

Ion Ratio Lower Upper

128 100

127 13.7 10.8 16.2

129 10.8 9.0 13.4



#80

Naphthalene,2-methyl-

Concen: 10.723 ppbv

RT: 14.475 min Scan# 4445

Delta R.T. 0.019 min

Lab File: VL042253.D

Acq: 08 Apr 2025 08:39

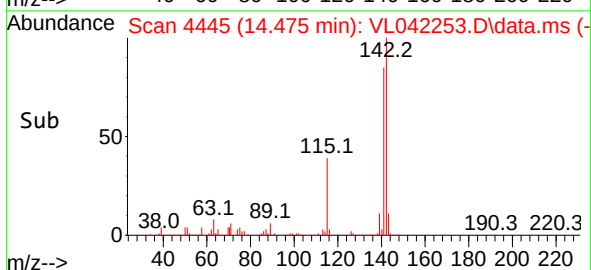
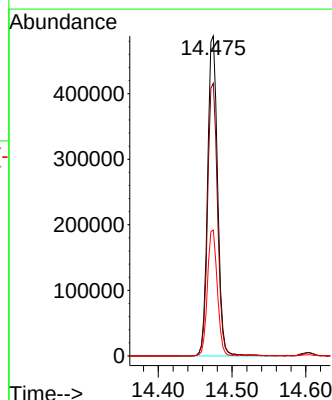
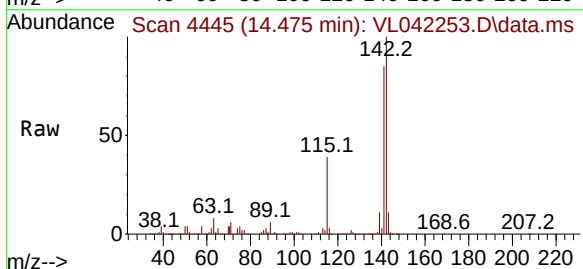
Tgt Ion:142 Resp: 457943

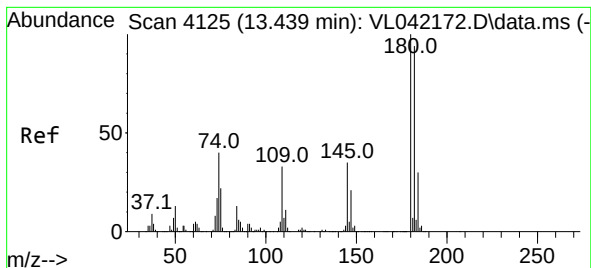
Ion Ratio Lower Upper

142 100

141 85.5 66.3 99.5

115 39.3 31.6 47.4





#81

1,2,4-Trichlorobenzene

Concen: 10.592 ppbv

RT: 13.455 min Scan# 41

Delta R.T. 0.016 min

Lab File: VL042253.D

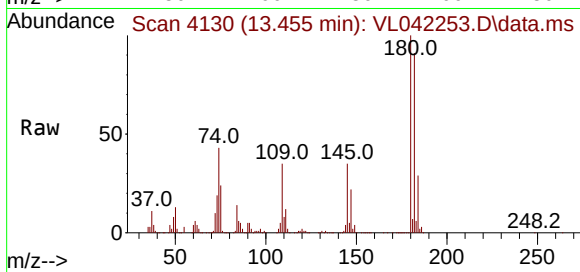
Acq: 08 Apr 2025 08:39

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010



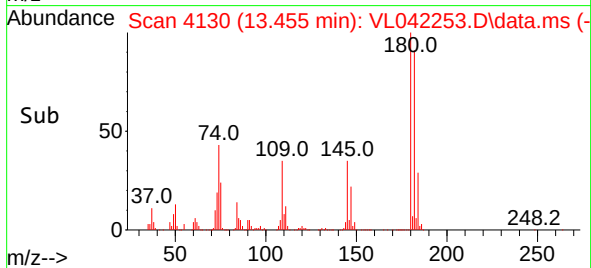
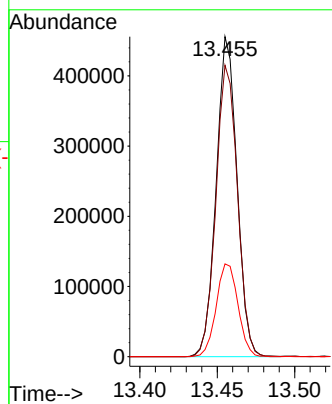
Tgt Ion:180 Resp: 425466

Ion Ratio Lower Upper

180 100

182 94.6 75.1 112.7

184 30.4 24.4 36.6



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040825\
 Data File : VL042255.D
 Acq On : 08 Apr 2025 10:05
 Operator : SY/MD
 Sample : VL0408ABS01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0408ABS01

Quant Time: Apr 09 01:51:57 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri Mar 28 02:00:52 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.803	49	190420	10.000	ppbv	0.02
33) 1,4-Difluorobenzene	3.981	114	494678	10.000	ppbv	0.03
55) Chlorobenzene-d5	8.904	117	447066	10.000	ppbv	0.03

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.393	95	367418	10.008	ppbv	0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.100%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.505	85	273062	9.712	ppbv	99
3) Chlorodifluoromethane	1.483	51	292844	10.196	ppbv	100
4) Chloromethane	1.538	50	112659	9.805	ppbv	100
5) Vinyl Chloride	1.586	62	103863	8.530	ppbv	96
6) Bromomethane	1.674	94	45172	8.675	ppbv	97
7) Chloroethane	1.713	64	42251	9.161	ppbv	99
8) Dichlorotetrafluoroethane	1.560	85	232959	9.730	ppbv	93
9) Propene	1.489	41	111408	8.462	ppbv	99
10) Heptane	5.011	43	333061	9.511	ppbv	99
11) Trichlorofluoromethane	1.887	101	263188	9.620	ppbv	94
12) 1,1,2-Trichlorotrifluo...	2.150	101	211536	9.407	ppbv	98
13) Ethanol	1.729	45	6066	4.874	ppbv	82
14) Bromoethene	1.790	108	74695	8.671	ppbv	98
15) Acetone	1.842	43	235954	8.860	ppbv	95
16) 1,3-Butadiene	1.615	39	115796	8.904	ppbv	95
17) tert-Butyl alcohol	2.049	59	277654	8.371	ppbv	98
18) 1,1-Dichloroethene	2.043	96	93164	8.862	ppbv	97
19) Isopropyl Alcohol	1.894	45	129418	8.613	ppbv #	34
20) Methylene Chloride	2.072	84	83277	8.396	ppbv	95
21) Allyl Chloride	2.107	41	171013	9.105	ppbv	98
22) trans-1,2-Dichloroethene	2.353	96	106692	8.782	ppbv	93
23) Vinyl Acetate	2.476	43	98533	8.549	ppbv	97
24) 1,1-Dichloroethane	2.421	63	221032	9.814	ppbv	99
25) Ethyl Acetate	2.852	43	681132	9.854	ppbv	99
26) Hexane	2.842	57	254141	9.519	ppbv	95
27) Carbon Disulfide	2.159	76	258972	9.046	ppbv	99
28) Methyl tert-Butyl Ether	2.454	73	141395	8.506	ppbv	96
29) Chloroform	2.865	83	410522	10.507	ppbv	98
30) Cyclohexane	3.878	84	211231	9.112	ppbv	97
31) cis-1,2-Dichloroethene	2.735	61	251202	9.268	ppbv	98
32) 1,1,1-Trichloroethane	3.386	97	402513	8.998	ppbv	98
34) 2-Butanone	2.570	43	379327	10.575	ppbv	98
35) Carbon Tetrachloride	3.787	117	418420	10.828	ppbv	99
36) Benzene	3.677	78	518095	10.564	ppbv	98
37) 1,2-Dichloroethane	3.237	62	315190	11.226	ppbv	99
38) Trichloroethene	4.577	130	205867	10.061	ppbv	96
39) 1,2-Dichloropropane	4.341	63	185795	10.403	ppbv	94
40) 1,4-Dioxane	4.613	88	91079	9.608	ppbv #	92
41) Tetrahydrofuran	3.072	42	210024	10.168	ppbv	97
42) Bromodichloromethane	4.519	83	434165	11.217	ppbv	99
43) Methyl Methacrylate	4.910	69	192595	9.277	ppbv	98
44) 2,2,4-Trimethylpentane	4.668	57	886873	10.701	ppbv	98
45) t-1,3-Dichloropropene	6.448	75	184852	8.299	ppbv	97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040825\
 Data File : VL042255.D
 Acq On : 08 Apr 2025 10:05
 Operator : SY/MD
 Sample : VL0408ABS01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0408ABS01

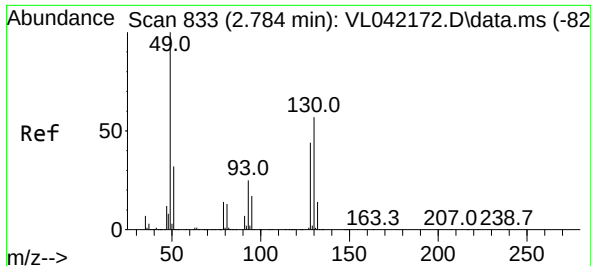
Quant Time: Apr 09 01:51:57 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri Mar 28 02:00:52 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.635	75	249791	9.149	ppbv	97
47) 1,1,2-Trichloroethane	6.613	97	210809	11.166	ppbv	98
48) Dibromochloromethane	7.412	129	348149	10.881	ppbv	99
49) Bromoform	9.503	173	307461	10.703	ppbv	99
50) 4-Methyl-2-Pentanone	5.787	43	543140	9.554	ppbv	97
51) 2-Hexanone	7.461	43	441742	9.463	ppbv #	95
52) Tetrachloroethene	8.251	164	175587	9.028	ppbv	93
53) Toluene	6.962	91	578261	9.947	ppbv	99
54) 1,2-Dibromoethane	7.678	107	282386	10.730	ppbv	99
56) 1,1,1,2-Tetrachloroethane	8.946	131	283080	11.503	ppbv	98
57) Chlorobenzene	8.943	112	481713	11.360	ppbv	98
58) Ethyl Benzene	9.377	91	841166	10.593	ppbv	99
59) m/p-Xylene	9.571	91	695111	10.962	ppbv #	25
60) o-Xylene	9.982	91	711568	11.194	ppbv	98
61) Styrene	9.888	104	319155	10.149	ppbv	99
62) Isopropylbenzene	10.558	105	1063992	11.193	ppbv	99
63) 1,1,2,2-Tetrachloroethane	9.982	83	468851	12.139	ppbv	99
64) n-propylbenzene	11.005	120	284790	11.638	ppbv	97
65) tert-Butylbenzene	11.549	119	976872	11.112	ppbv	99
66) Benzyl Chloride	11.633	91	63988	6.860	ppbv	99
67) sec-Butylbenzene	11.785	105	1377726	11.275	ppbv	99
69) p-Isopropyltoluene	11.940	119	1168405	11.104	ppbv	99
70) n-Butylbenzene	12.296	91	1217247	11.312	ppbv	99
71) 2-Chlorotoluene	10.918	91	817332	11.078	ppbv	99
72) 4-Ethyltoluene	11.141	105	906994	11.460	ppbv	99
73) 1,3,5-Trimethylbenzene	11.222	105	773328	11.187	ppbv	98
74) 1,2,4-Trimethylbenzene	11.555	105	862179	10.827	ppbv	99
75) 1,3-Dichlorobenzene	11.623	146	512731	11.739	ppbv	98
76) 1,4-Dichlorobenzene	11.688	146	505049	11.619	ppbv	99
77) 1,2-Dichlorobenzene	11.963	146	505323	11.883	ppbv	99
78) Hexachloro-1,3-Butadiene	13.899	225	382876	8.845	ppbv	100
79) Naphthalene	13.530	128	875824	10.055	ppbv	99
80) Naphthalene,2-methyl-	14.475	142	291105	6.815	ppbv	100
81) 1,2,4-Trichlorobenzene	13.455	180	388605	9.672	ppbv	98

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

Quant Time: Apr 09 01:51:57 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Mar 28 02:00:52 2025
Response via : Initial Calibration

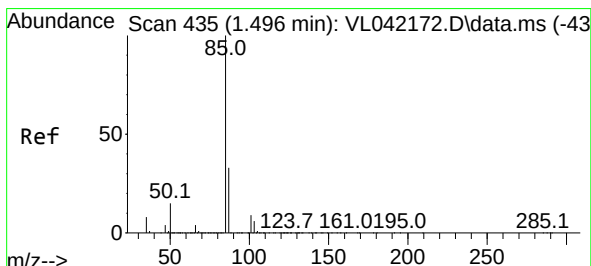
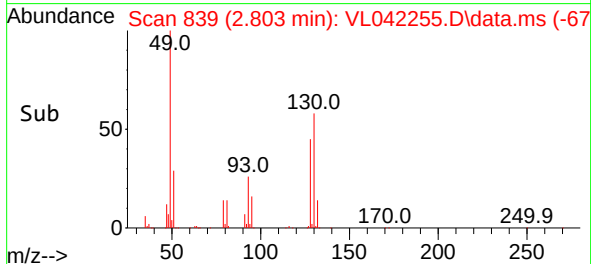
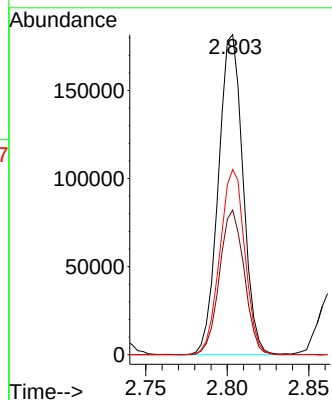
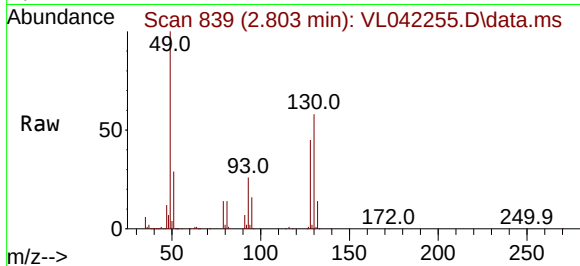




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 2.803 min Scan# 81
 Delta R.T. 0.019 min
 Lab File: VL042255.D
 Acq: 08 Apr 2025 10:05

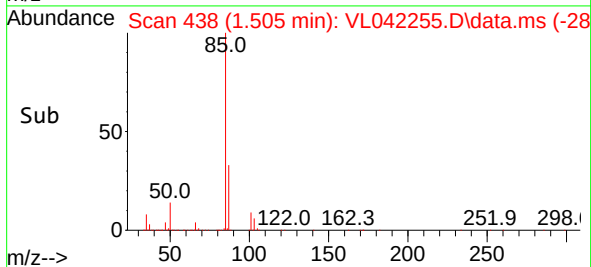
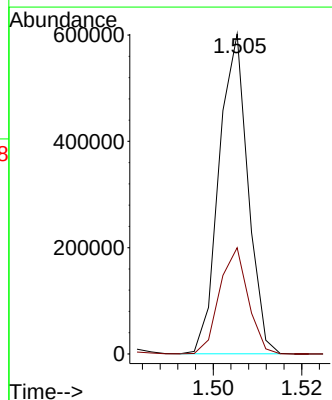
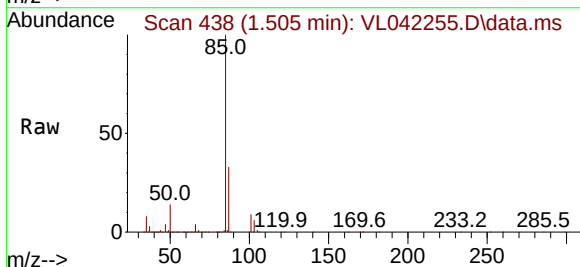
Instrument :
 MSVOA_L
 ClientSampleId :
 VL0408ABS01

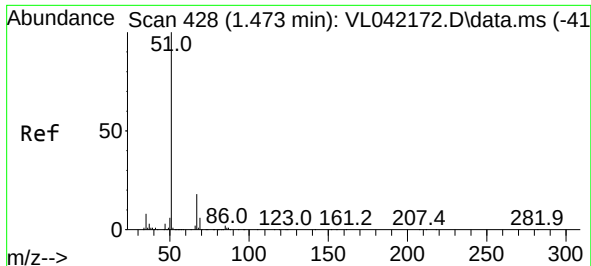
Tgt Ion: 49 Resp: 190420
 Ion Ratio Lower Upper
 49 100
 128 45.4 22.9 68.5
 130 58.9 28.8 86.4



#2
 Dichlorodifluoromethane
 Concen: 9.712 ppbv
 RT: 1.505 min Scan# 438
 Delta R.T. 0.010 min
 Lab File: VL042255.D
 Acq: 08 Apr 2025 10:05

Tgt Ion: 85 Resp: 273062
 Ion Ratio Lower Upper
 85 100
 87 33.2 26.1 39.1

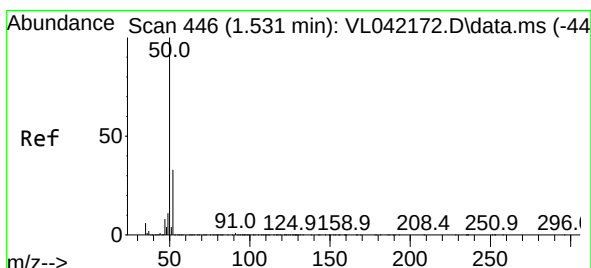
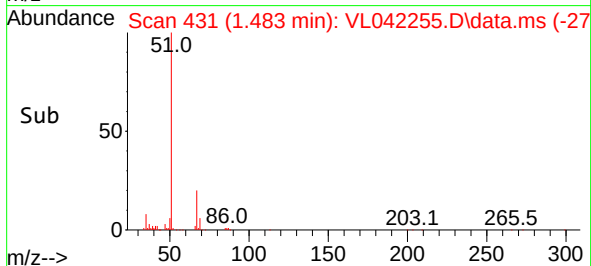
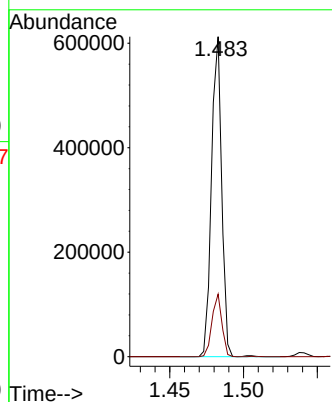
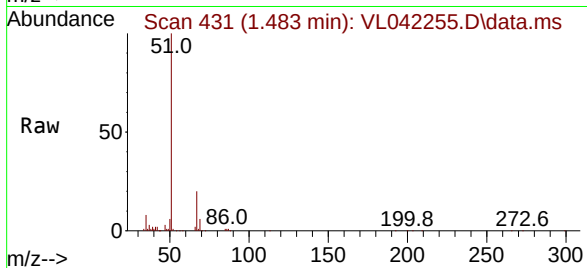




#3
Chlorodifluoromethane
Concen: 10.196 ppbv
RT: 1.483 min Scan# 41
Delta R.T. 0.010 min
Lab File: VL042255.D
Acq: 08 Apr 2025 10:05

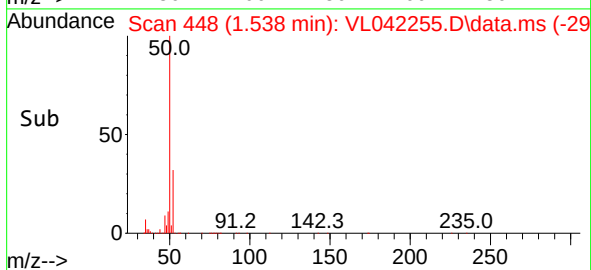
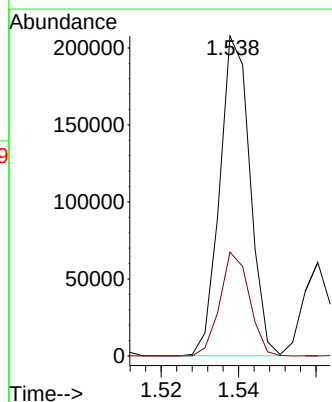
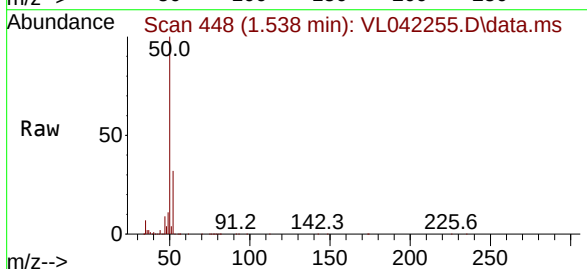
Instrument :
MSVOA_L
ClientSampleId :
VL0408ABS01

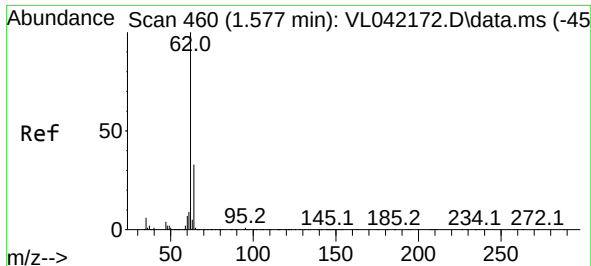
Tgt Ion: 51 Resp: 292844
Ion Ratio Lower Upper
51 100
67 19.0 15.0 22.6



#4
Chloromethane
Concen: 9.805 ppbv
RT: 1.538 min Scan# 448
Delta R.T. 0.006 min
Lab File: VL042255.D
Acq: 08 Apr 2025 10:05

Tgt Ion: 50 Resp: 112659
Ion Ratio Lower Upper
50 100
52 32.5 26.1 39.1

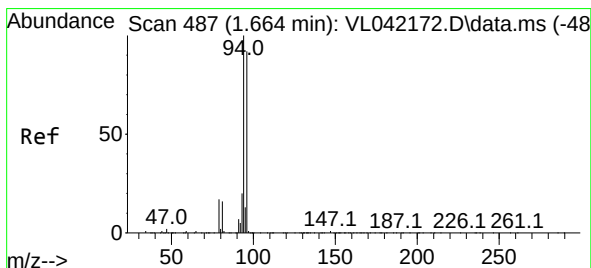
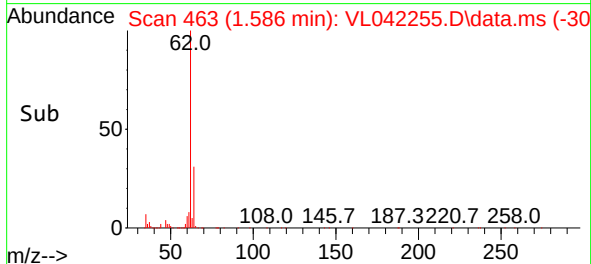
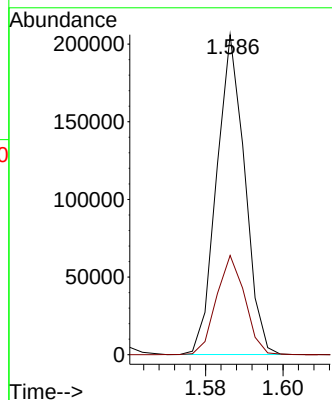
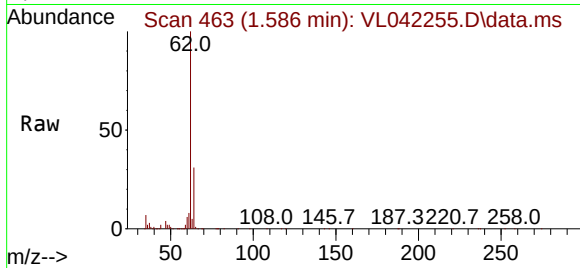




#5
 Vinyl Chloride
 Concen: 8.530 ppbv
 RT: 1.586 min Scan# 40
 Delta R.T. 0.010 min
 Lab File: VL042255.D
 Acq: 08 Apr 2025 10:05

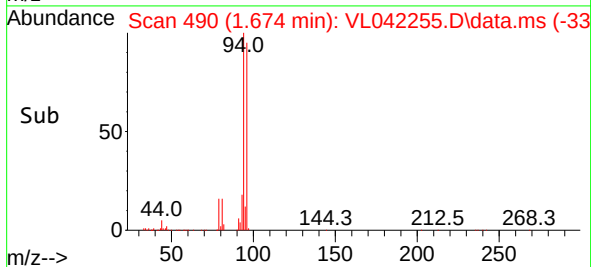
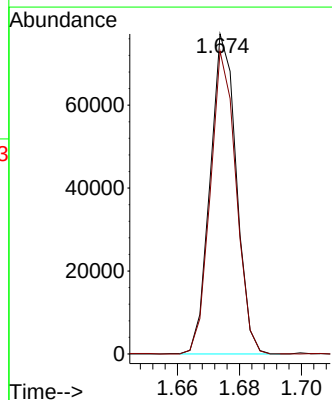
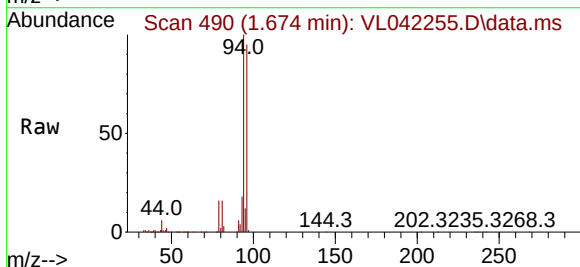
Instrument :
 MSVOA_1
 ClientSampleId :
 VL0408ABS01

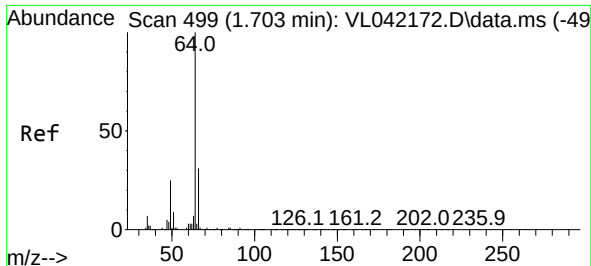
Tgt Ion: 62 Resp: 103863
 Ion Ratio Lower Upper
 62 100
 64 30.9 26.6 40.0



#6
 Bromomethane
 Concen: 8.675 ppbv
 RT: 1.674 min Scan# 490
 Delta R.T. 0.010 min
 Lab File: VL042255.D
 Acq: 08 Apr 2025 10:05

Tgt Ion: 94 Resp: 45172
 Ion Ratio Lower Upper
 94 100
 96 94.7 73.1 109.7

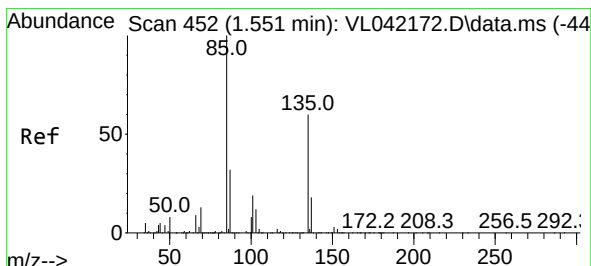
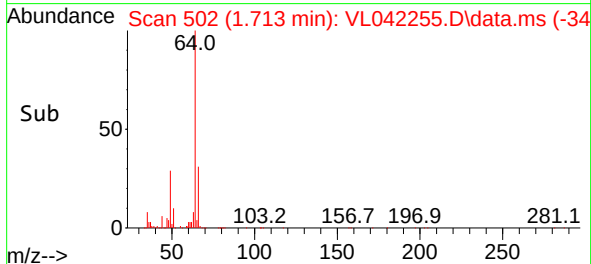
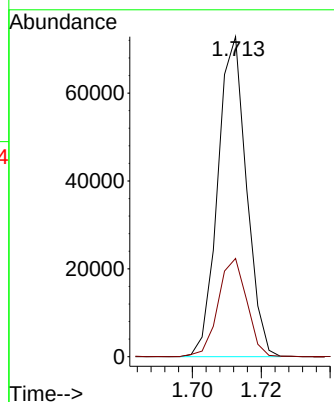
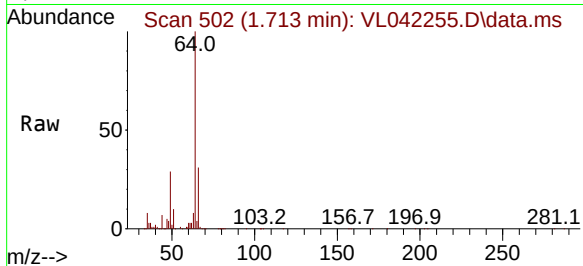




#7
Chloroethane
Concen: 9.161 ppbv
RT: 1.713 min Scan# 50
Delta R.T. 0.010 min
Lab File: VL042255.D
Acq: 08 Apr 2025 10:05

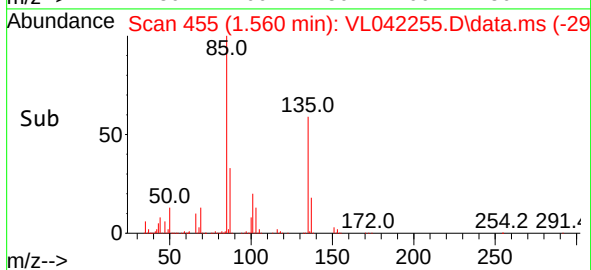
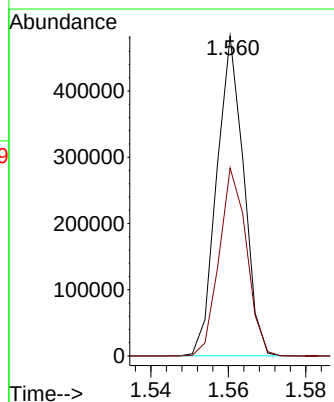
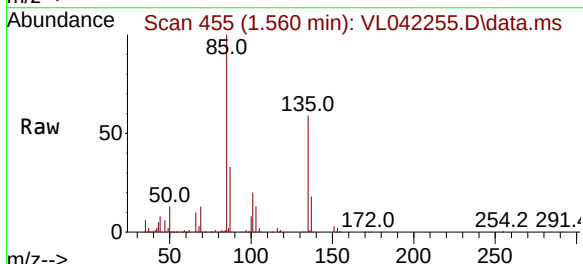
Instrument :
MSVOA_1
ClientSampleId :
VL0408ABS01

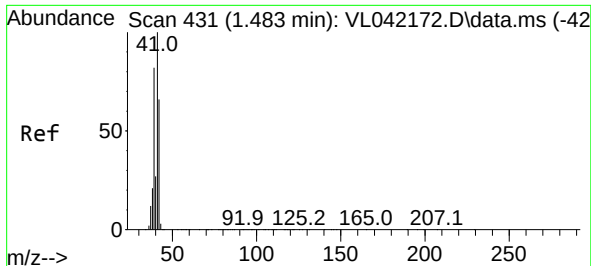
Tgt Ion: 64 Resp: 42251
Ion Ratio Lower Upper
64 100
66 30.7 25.2 37.8



#8
Dichlorotetrafluoroethane
Concen: 9.730 ppbv
RT: 1.560 min Scan# 455
Delta R.T. 0.010 min
Lab File: VL042255.D
Acq: 08 Apr 2025 10:05

Tgt Ion: 85 Resp: 232959
Ion Ratio Lower Upper
85 100
135 60.1 52.4 78.6





#9

Propene

Concen: 8.462 ppbv

RT: 1.489 min Scan# 41

Delta R.T. 0.006 min

Lab File: VL042255.D

Acq: 08 Apr 2025 10:05

Instrument :

MSVOA_1

ClientSampleId :

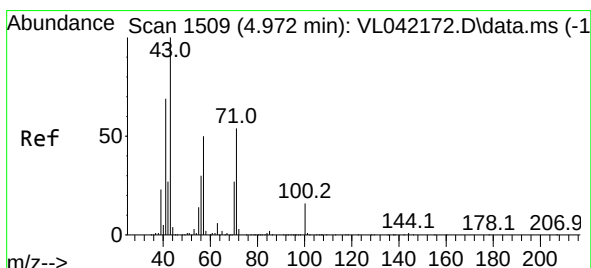
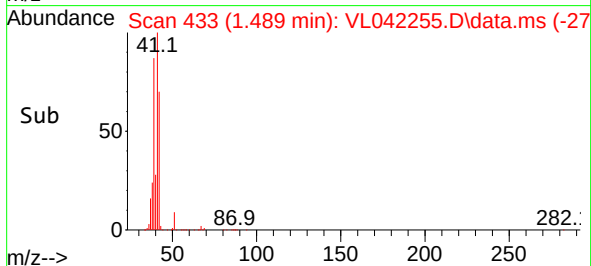
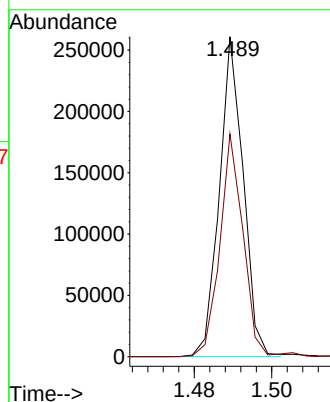
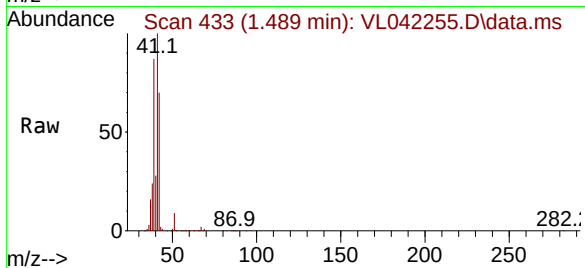
VL0408ABS01

Tgt Ion: 41 Resp: 111408

Ion Ratio Lower Upper

41 100

42 68.7 55.4 83.2



#10

Heptane

Concen: 9.511 ppbv

RT: 5.011 min Scan# 1521

Delta R.T. 0.039 min

Lab File: VL042255.D

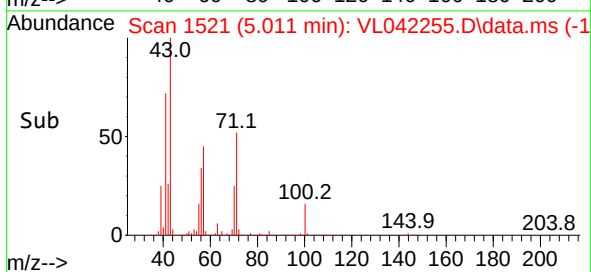
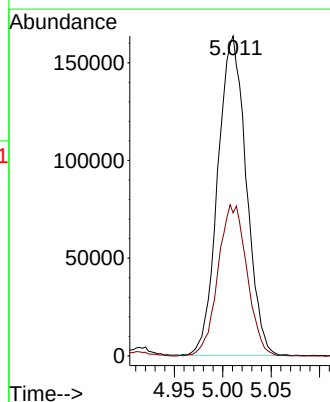
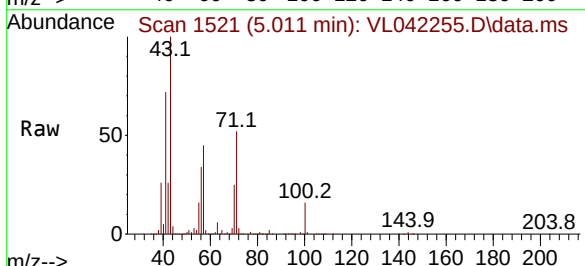
Acq: 08 Apr 2025 10:05

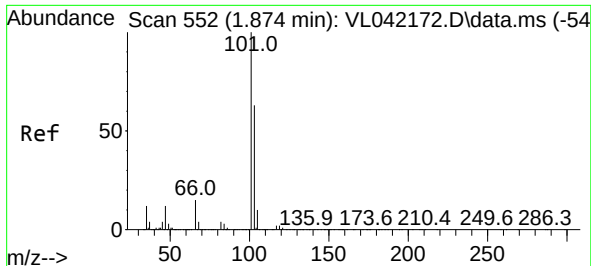
Tgt Ion: 43 Resp: 333061

Ion Ratio Lower Upper

43 100

57 48.5 39.4 59.2

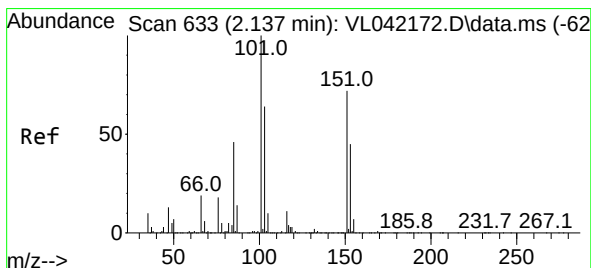
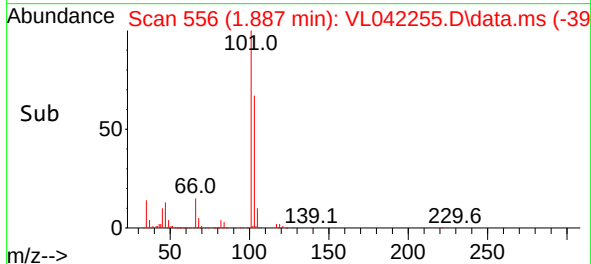
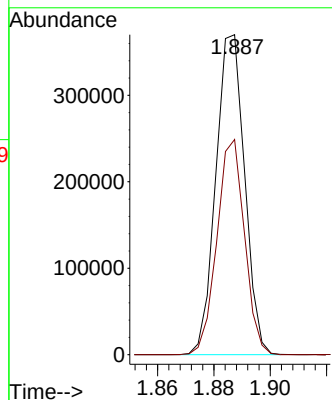
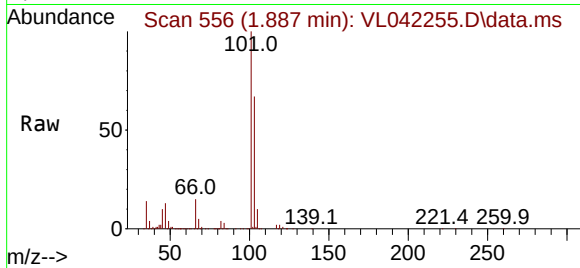




#11
Trichlorofluoromethane
Concen: 9.620 ppbv
RT: 1.887 min Scan# 511
Delta R.T. 0.013 min
Lab File: VL042255.D
Acq: 08 Apr 2025 10:05

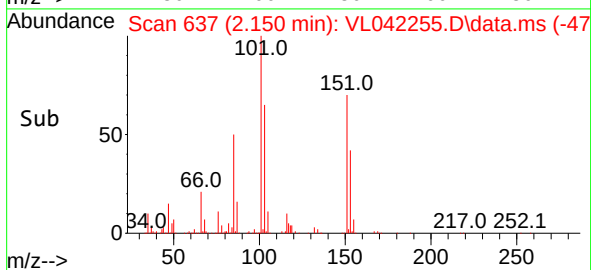
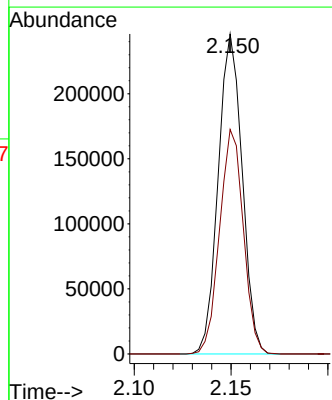
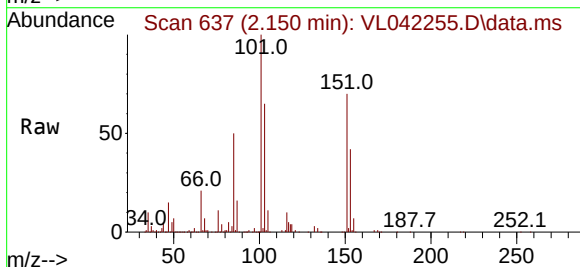
Instrument :
MSVOA_1
ClientSampleId :
VL0408ABS01

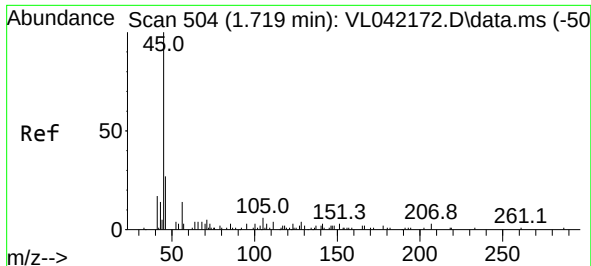
Tgt Ion:101 Resp: 263188
Ion Ratio Lower Upper
101 100
103 67.2 50.2 75.2



#12
1,1,2-Trichlorotrifluoroethane
Concen: 9.407 ppbv
RT: 2.150 min Scan# 637
Delta R.T. 0.013 min
Lab File: VL042255.D
Acq: 08 Apr 2025 10:05

Tgt Ion:101 Resp: 211536
Ion Ratio Lower Upper
101 100
151 69.6 57.1 85.7

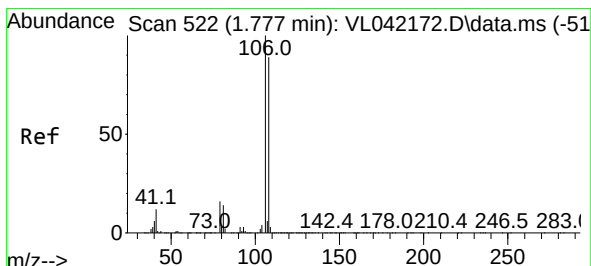
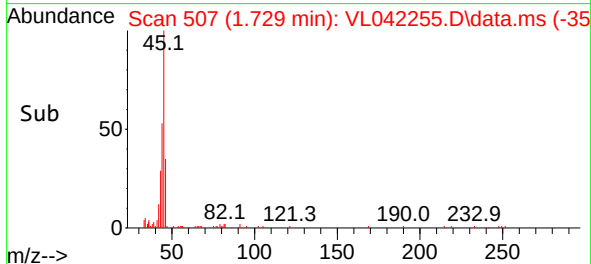
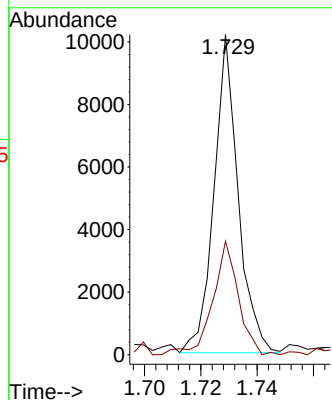
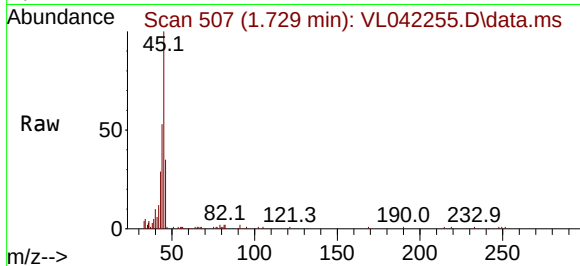




#13
 Ethanol
 Concen: 4.874 ppbv
 RT: 1.729 min Scan# 504
 Delta R.T. 0.010 min
 Lab File: VL042255.D
 Acq: 08 Apr 2025 10:05

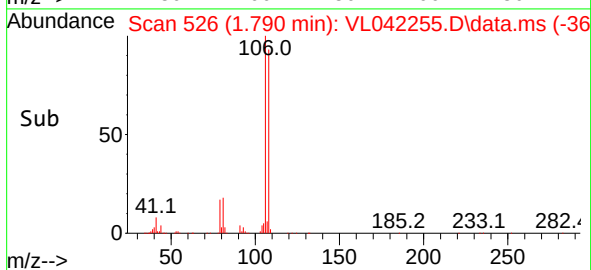
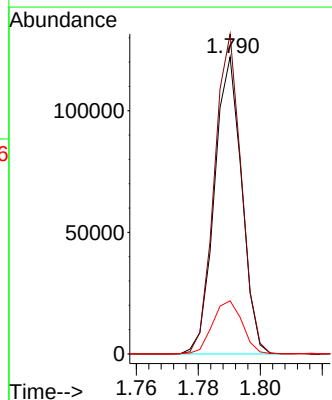
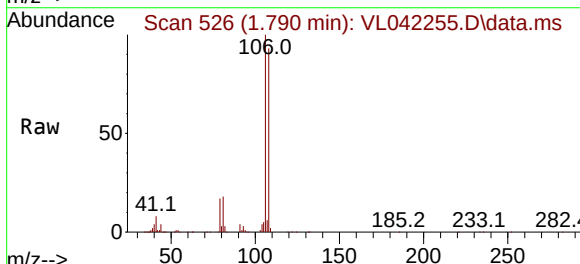
Instrument :
 MSVOA_L
 ClientSampleId :
 VL0408ABS01

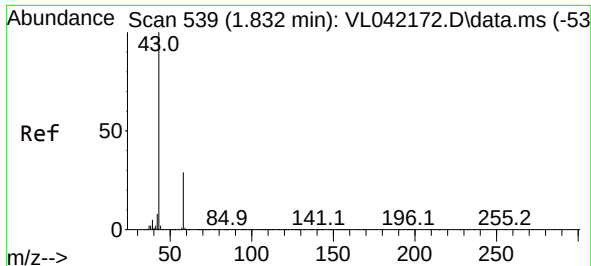
Tgt Ion: 45 Resp: 6066
 Ion Ratio Lower Upper
 45 100
 46 38.1 20.2 80.8



#14
 Bromoethene
 Concen: 8.671 ppbv
 RT: 1.790 min Scan# 526
 Delta R.T. 0.013 min
 Lab File: VL042255.D
 Acq: 08 Apr 2025 10:05

Tgt Ion: 108 Resp: 74695
 Ion Ratio Lower Upper
 108 100
 106 106.1 86.8 130.2
 79 19.5 15.0 22.6

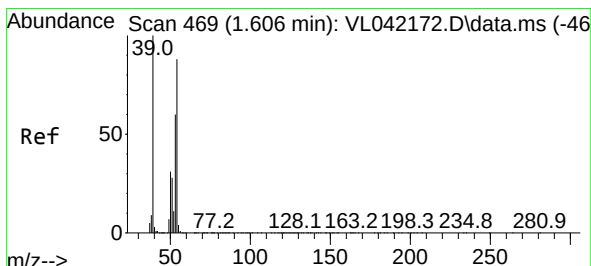
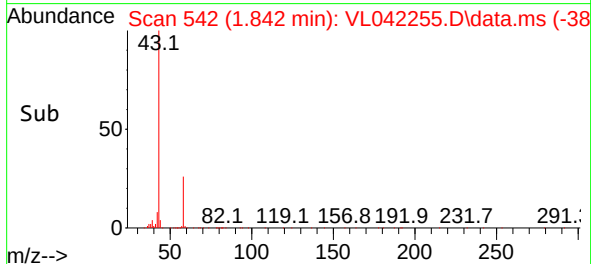
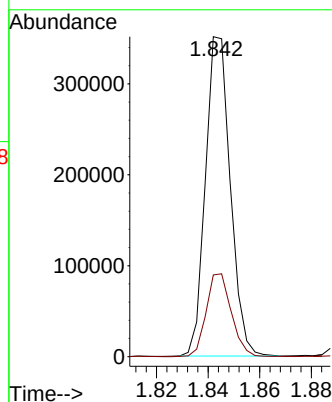
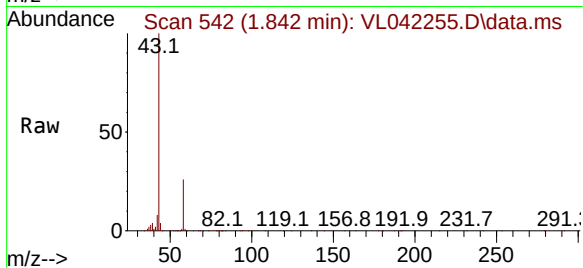




#15
Acetone
Concen: 8.860 ppbv
RT: 1.842 min Scan# 54
Delta R.T. 0.010 min
Lab File: VL042255.D
Acq: 08 Apr 2025 10:05

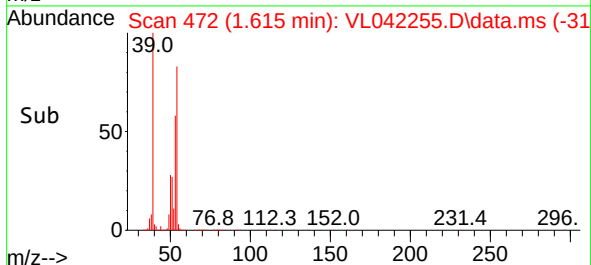
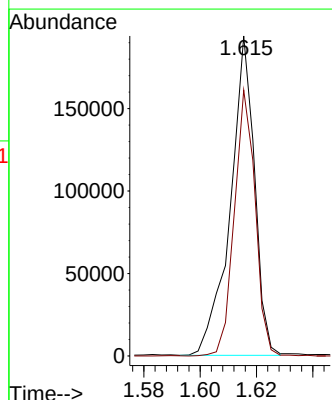
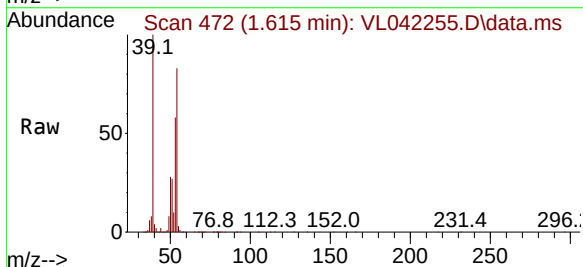
Instrument :
MSVOA_L
ClientSampleId :
VL0408ABS01

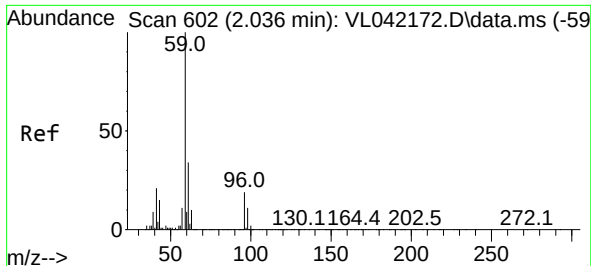
Tgt Ion: 43 Resp: 235954
Ion Ratio Lower Upper
43 100
58 26.4 23.2 34.8



#16
1,3-Butadiene
Concen: 8.904 ppbv
RT: 1.615 min Scan# 472
Delta R.T. 0.010 min
Lab File: VL042255.D
Acq: 08 Apr 2025 10:05

Tgt Ion: 39 Resp: 115796
Ion Ratio Lower Upper
39 100
54 71.9 60.7 91.1





#17

tert-Butyl alcohol

Concen: 8.371 ppbv

RT: 2.049 min Scan# 606

Delta R.T. 0.013 min

Lab File: VL042255.D

Acq: 08 Apr 2025 10:05

Instrument :

MSVOA_L

ClientSampleId :

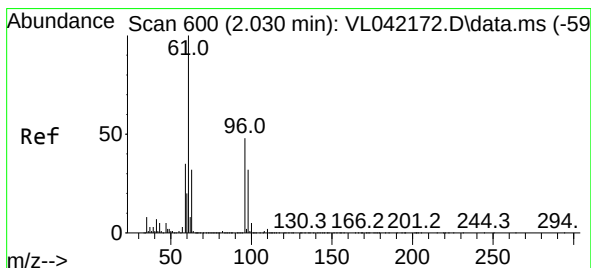
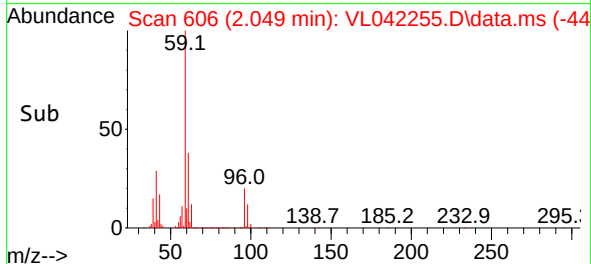
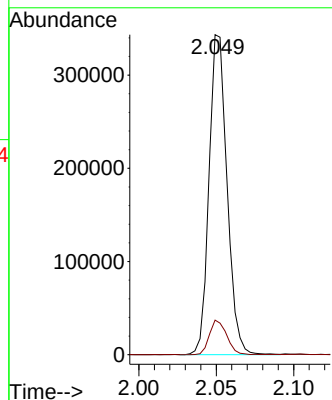
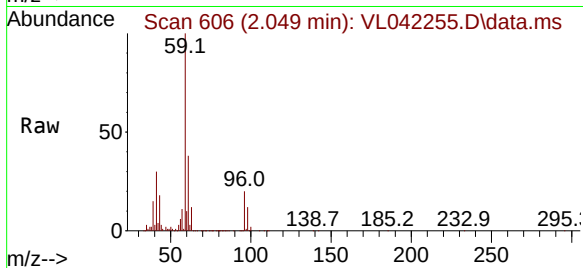
VL0408ABS01

Tgt Ion: 59 Resp: 277654

Ion Ratio Lower Upper

59 100

57 10.3 8.9 13.3



#18

1,1-Dichloroethene

Concen: 8.862 ppbv

RT: 2.043 min Scan# 604

Delta R.T. 0.013 min

Lab File: VL042255.D

Acq: 08 Apr 2025 10:05

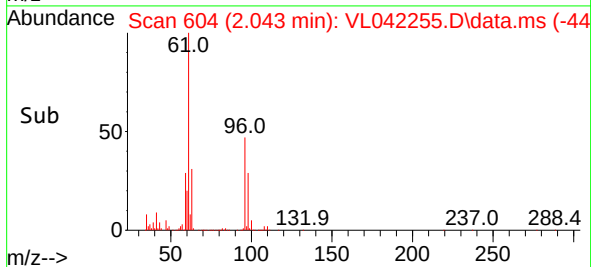
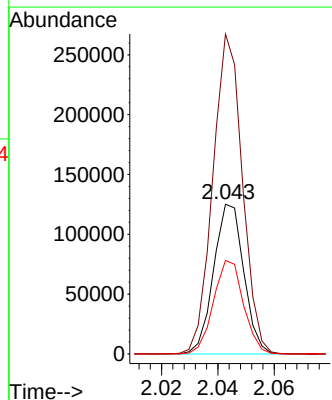
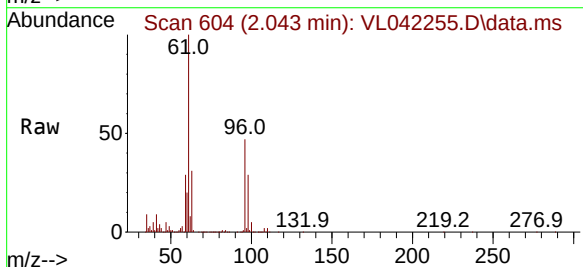
Tgt Ion: 96 Resp: 93164

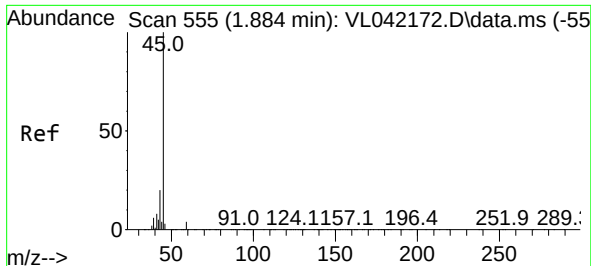
Ion Ratio Lower Upper

96 100

61 213.3 167.6 251.4

98 62.4 53.5 80.3

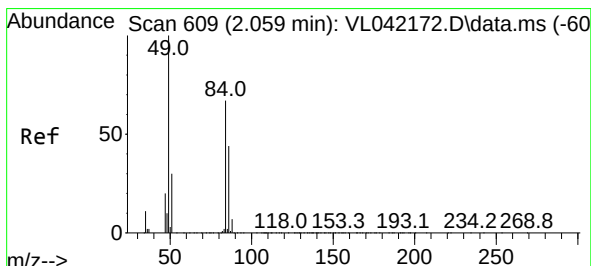
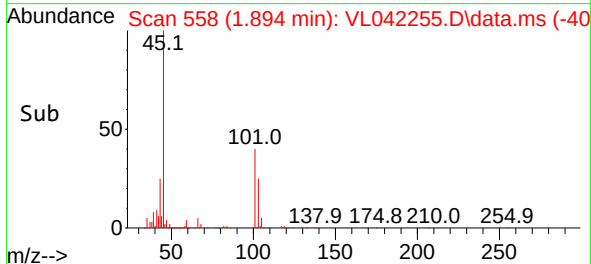
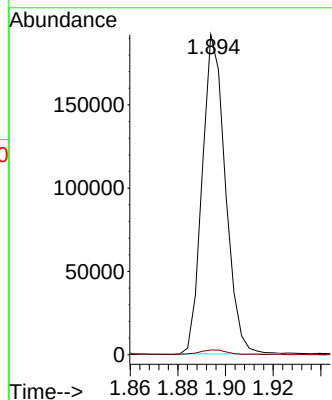
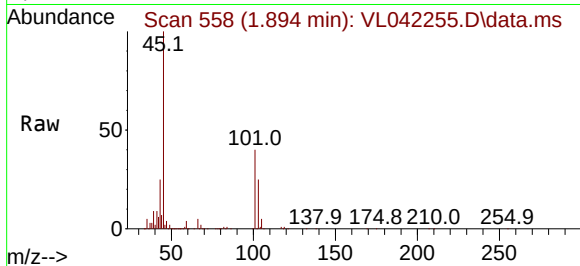




#19
Isopropyl Alcohol
Concen: 8.613 ppbv
RT: 1.894 min Scan# 511
Delta R.T. 0.010 min
Lab File: VL042255.D
Acq: 08 Apr 2025 10:05

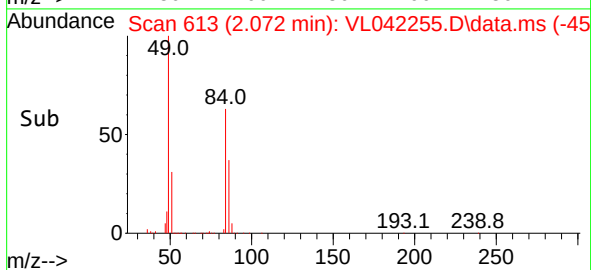
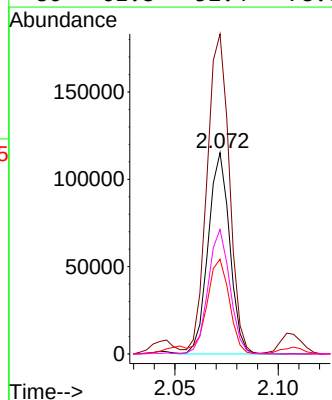
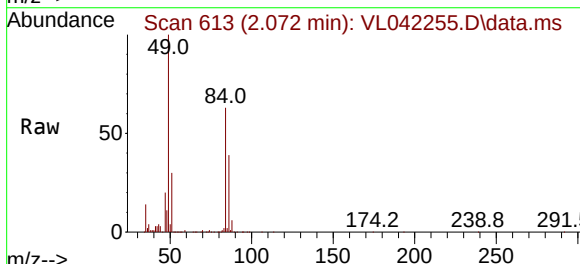
Instrument :
MSVOA_1
ClientSampleId :
VL0408ABS01

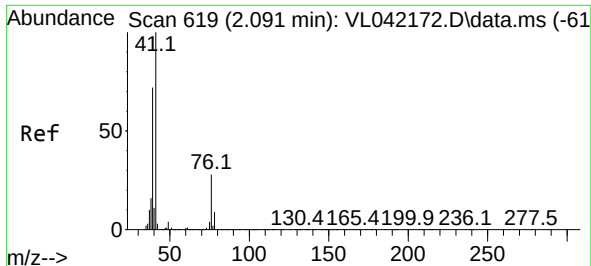
Tgt Ion: 45 Resp: 129418
Ion Ratio Lower Upper
45 100
58 2.1 36.9 55.3#



#20
Methylene Chloride
Concen: 8.396 ppbv
RT: 2.072 min Scan# 613
Delta R.T. 0.013 min
Lab File: VL042255.D
Acq: 08 Apr 2025 10:05

Tgt Ion: 84 Resp: 83277
Ion Ratio Lower Upper
84 100
49 156.9 120.2 180.4
51 44.9 37.4 56.0
86 61.8 52.4 78.6

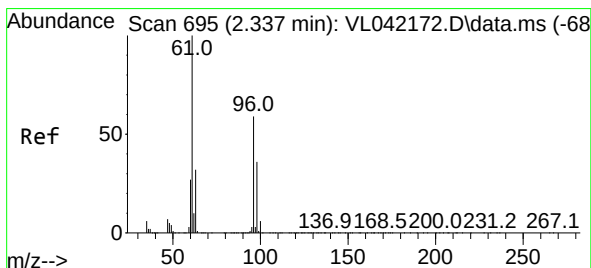
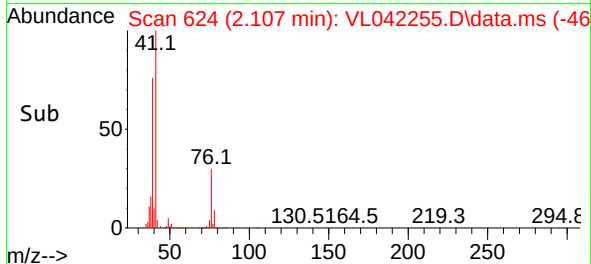
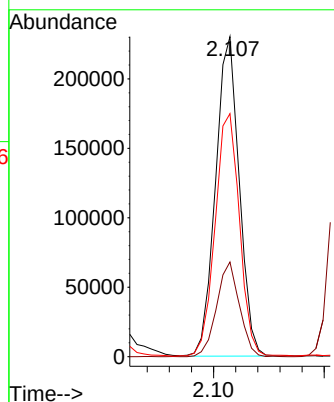
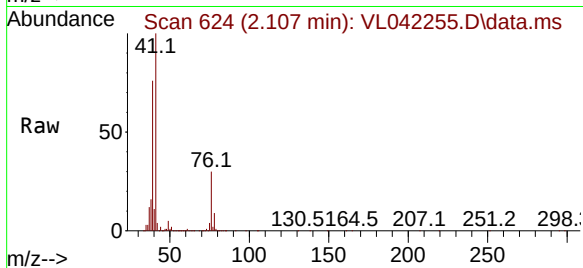




#21
 Allyl Chloride
 Concen: 9.105 ppbv
 RT: 2.107 min Scan# 61
 Delta R.T. 0.016 min
 Lab File: VL042255.D
 Acq: 08 Apr 2025 10:05

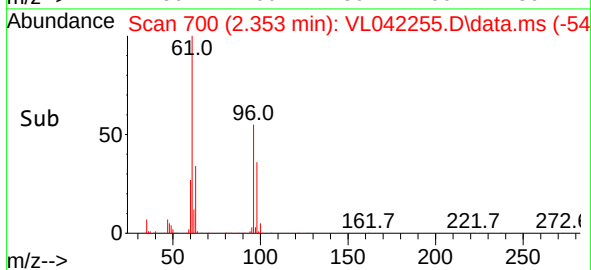
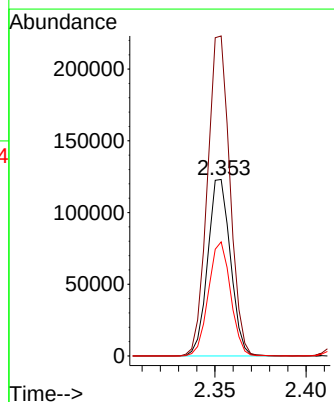
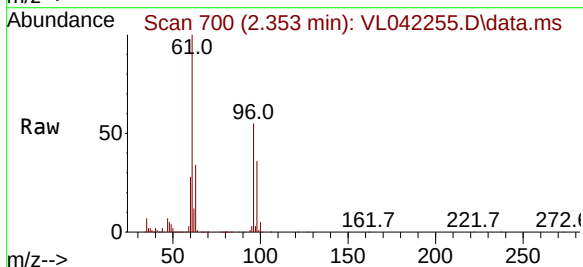
Instrument :
 MSVOA_1
 ClientSampleId :
 VL0408ABS01

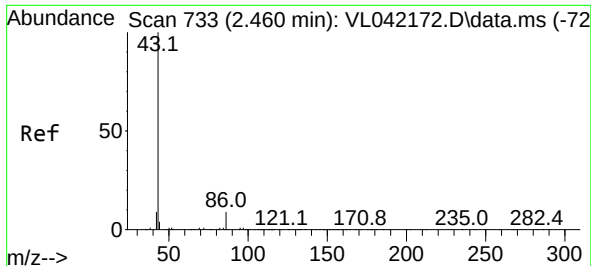
Tgt Ion: 41 Resp: 171013
 Ion Ratio Lower Upper
 41 100
 76 28.5 24.1 36.1
 39 77.8 61.1 91.7



#22
 trans-1,2-Dichloroethene
 Concen: 8.782 ppbv
 RT: 2.353 min Scan# 700
 Delta R.T. 0.016 min
 Lab File: VL042255.D
 Acq: 08 Apr 2025 10:05

Tgt Ion: 96 Resp: 106692
 Ion Ratio Lower Upper
 96 100
 61 181.3 136.6 204.8
 98 64.6 49.4 74.2

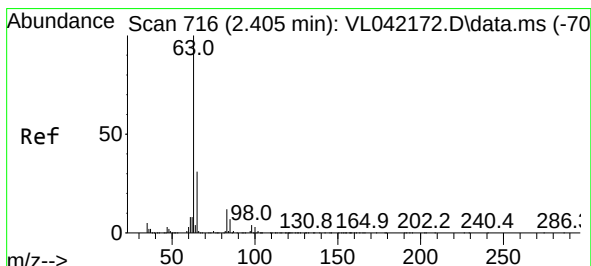
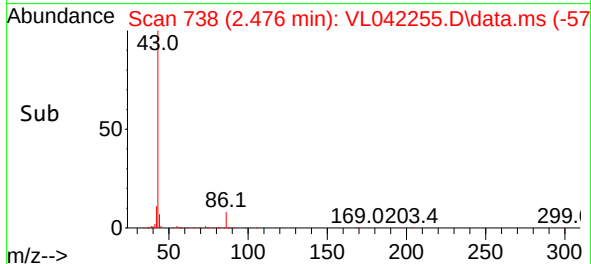
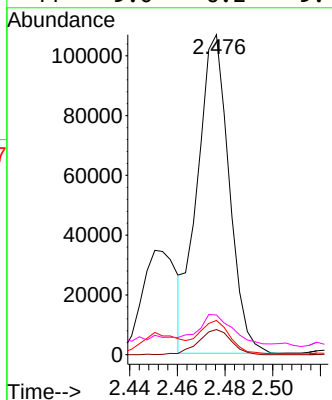
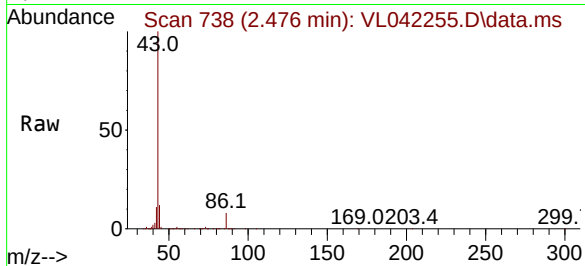




#23
 Vinyl Acetate
 Concen: 8.549 ppbv
 RT: 2.476 min Scan# 71
 Delta R.T. 0.016 min
 Lab File: VL042255.D
 Acq: 08 Apr 2025 10:05

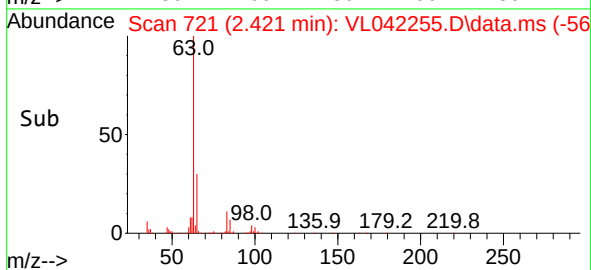
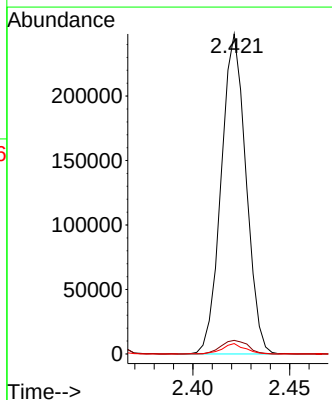
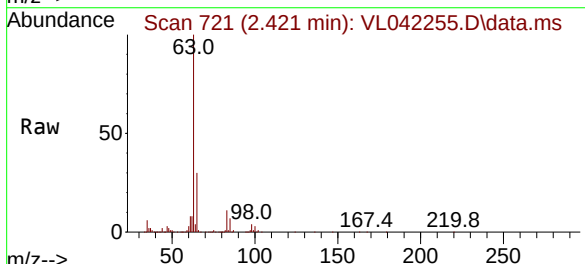
Instrument :
 MSVOA_1
 ClientSampleId :
 VL0408ABS01

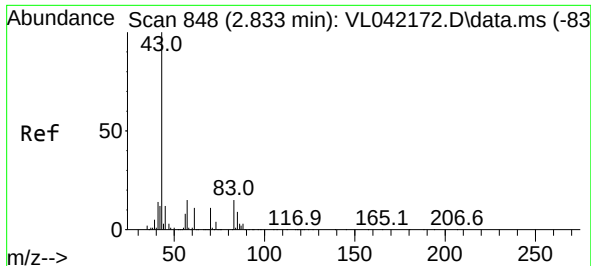
Tgt Ion: 43	Resp: 98533
Ion Ratio	Lower Upper
43 100	
86 7.9	5.5 8.3
42 9.9	8.6 13.0
44 9.0	6.2 9.4



#24
 1,1-Dichloroethane
 Concen: 9.814 ppbv
 RT: 2.421 min Scan# 721
 Delta R.T. 0.016 min
 Lab File: VL042255.D
 Acq: 08 Apr 2025 10:05

Tgt Ion: 63	Resp: 221032
Ion Ratio	Lower Upper
63 100	
98 4.2	2.3 6.8
100 3.3	1.6 4.7





#25

Ethyl Acetate

Concen: 9.854 ppbv

RT: 2.852 min Scan# 81

Delta R.T. 0.019 min

Lab File: VL042255.D

Acq: 08 Apr 2025 10:05

Instrument :

MSVOA_L

ClientSampleId :

VL0408ABS01

Tgt Ion: 43 Resp: 681132

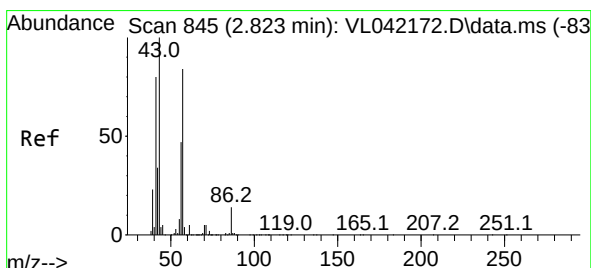
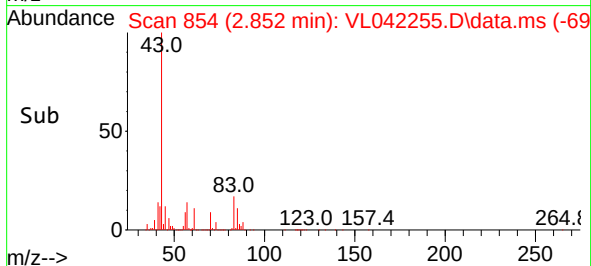
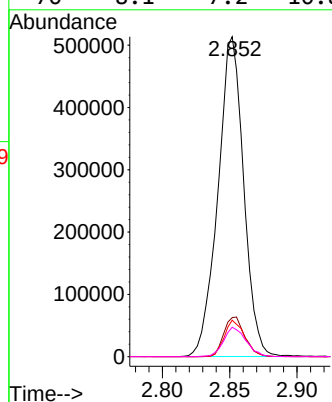
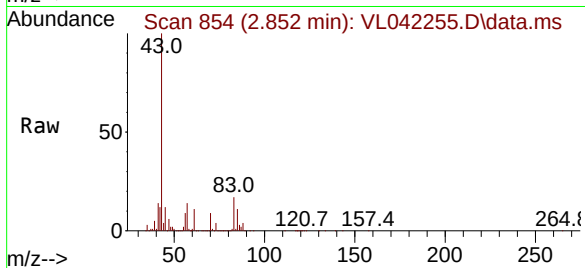
Ion Ratio Lower Upper

43 100

45 10.2 8.2 12.2

61 9.2 7.3 10.9

70 8.1 7.2 10.8



#26

Hexane

Concen: 9.519 ppbv

RT: 2.842 min Scan# 851

Delta R.T. 0.019 min

Lab File: VL042255.D

Acq: 08 Apr 2025 10:05

Tgt Ion: 57 Resp: 254141

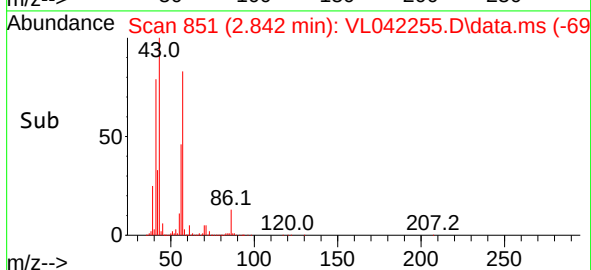
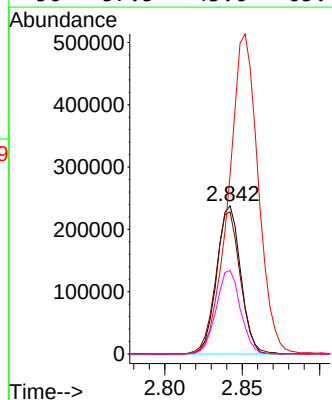
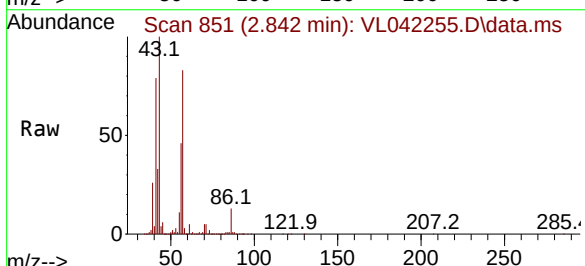
Ion Ratio Lower Upper

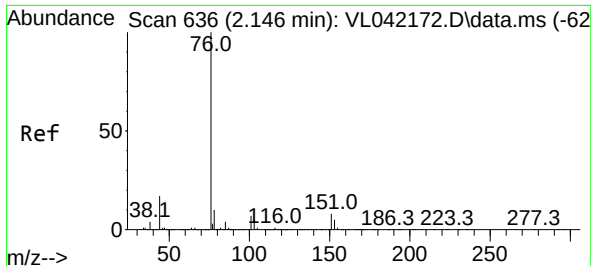
57 100

41 99.4 76.6 114.8

43 268.9 207.8 311.8

56 57.5 43.6 65.4

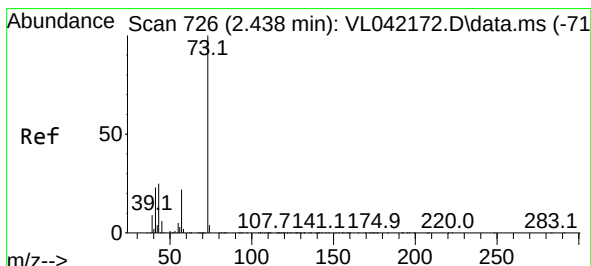
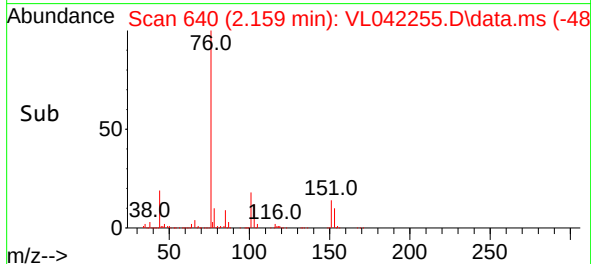
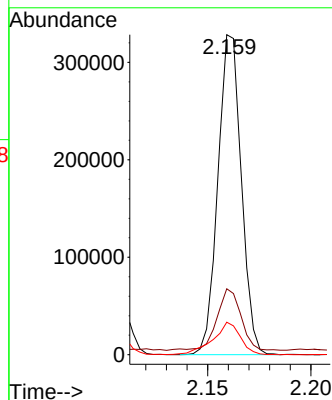
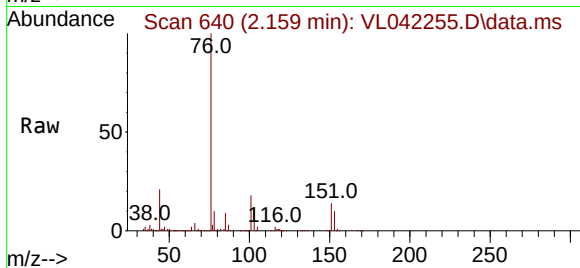




#27
Carbon Disulfide
Concen: 9.046 ppbv
RT: 2.159 min Scan# 640
Delta R.T. 0.013 min
Lab File: VL042255.D
Acq: 08 Apr 2025 10:05

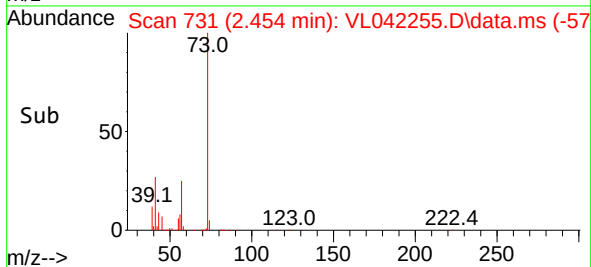
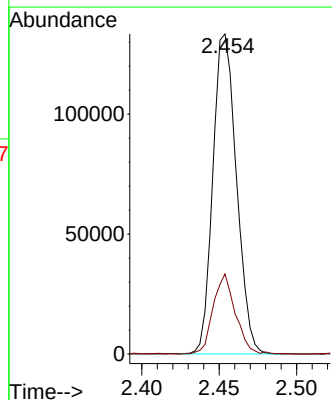
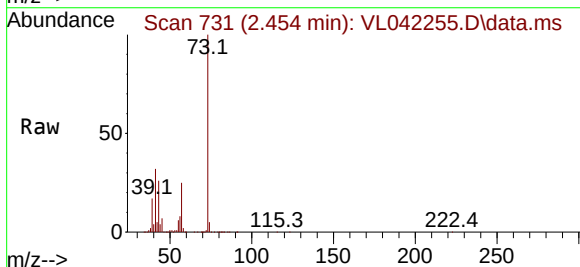
Instrument :
MSVOA_1
ClientSampleId :
VL0408ABS01

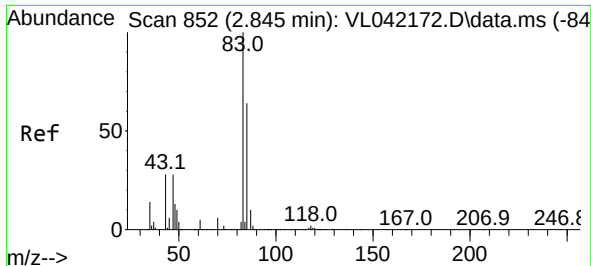
Tgt Ion: 76 Resp: 258972
Ion Ratio Lower Upper
76 100
44 19.1 14.7 22.1
78 11.7 9.3 13.9



#28
Methyl tert-Butyl Ether
Concen: 8.506 ppbv
RT: 2.454 min Scan# 731
Delta R.T. 0.016 min
Lab File: VL042255.D
Acq: 08 Apr 2025 10:05

Tgt Ion: 73 Resp: 141395
Ion Ratio Lower Upper
73 100
57 23.8 20.5 30.7

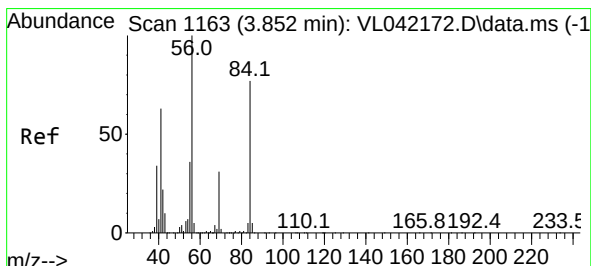
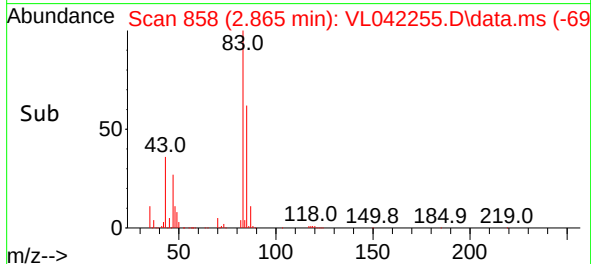
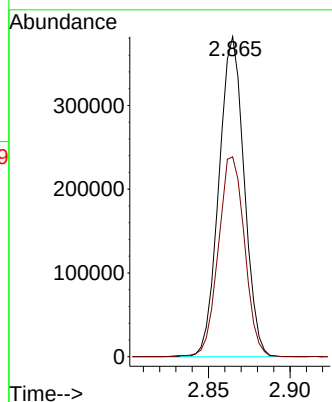
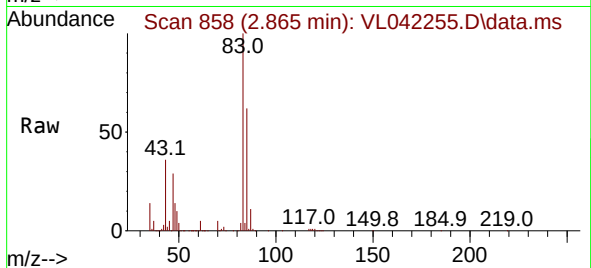




#29
Chloroform
Concen: 10.507 ppbv
RT: 2.865 min Scan# 81
Delta R.T. 0.019 min
Lab File: VL042255.D
Acq: 08 Apr 2025 10:05

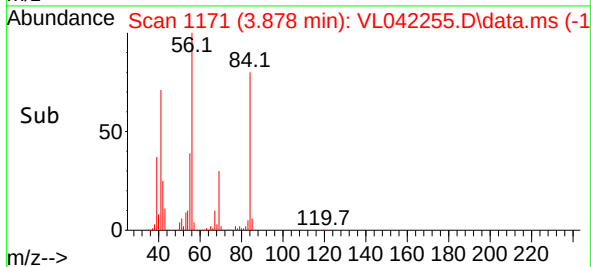
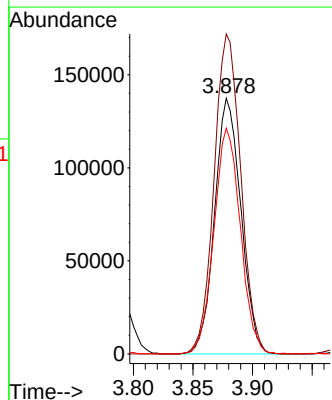
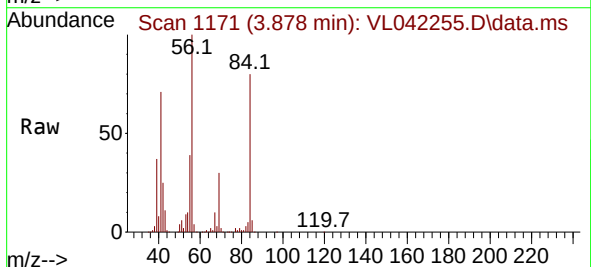
Instrument :
MSVOA_L
ClientSampleId :
VL0408ABS01

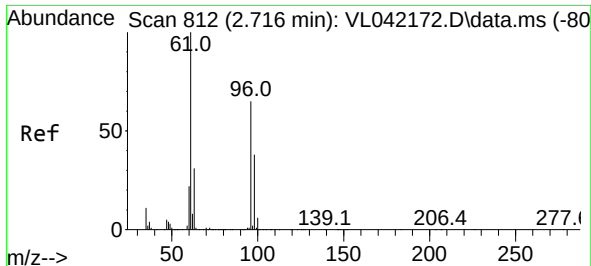
Tgt Ion: 83 Resp: 410522
Ion Ratio Lower Upper
83 100
85 62.4 51.4 77.2



#30
Cyclohexane
Concen: 9.112 ppbv
RT: 3.878 min Scan# 1171
Delta R.T. 0.026 min
Lab File: VL042255.D
Acq: 08 Apr 2025 10:05

Tgt Ion: 84 Resp: 211231
Ion Ratio Lower Upper
84 100
56 126.6 102.8 154.2
41 88.8 66.5 99.7

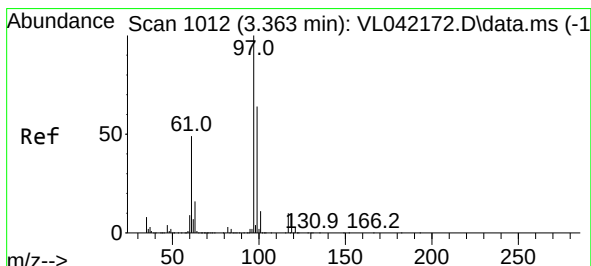
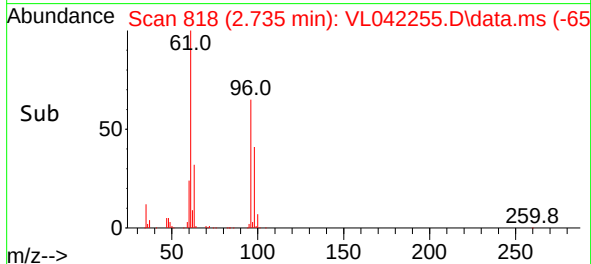
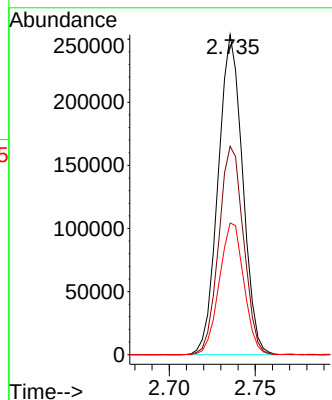
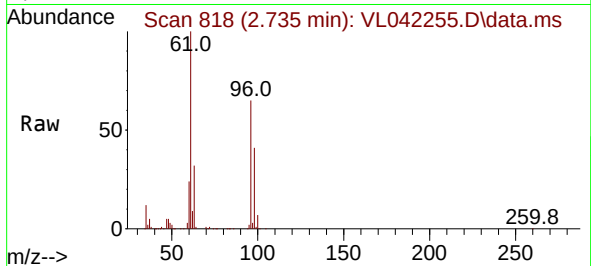




#31
 cis-1,2-Dichloroethene
 Concen: 9.268 ppbv
 RT: 2.735 min Scan# 812
 Delta R.T. 0.019 min
 Lab File: VL042255.D
 Acq: 08 Apr 2025 10:05

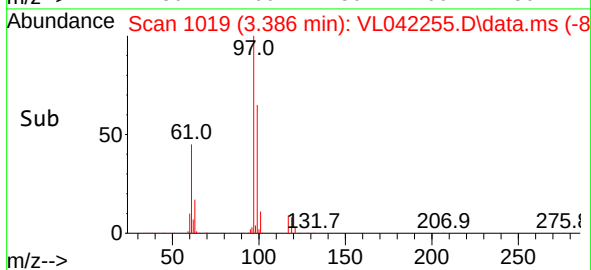
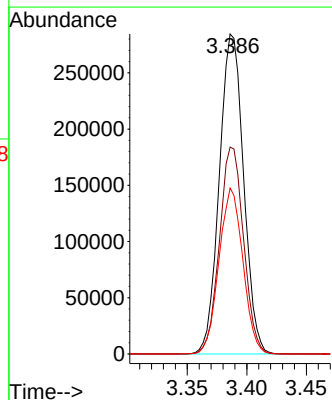
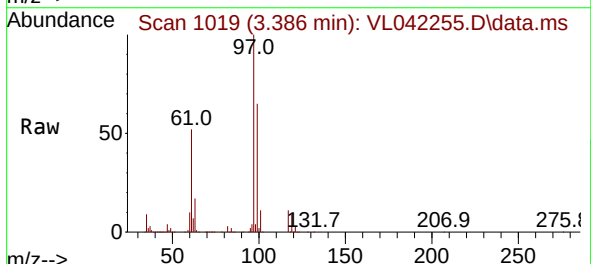
Instrument :
 MSVOA_1
 ClientSampleId :
 VL0408ABS01

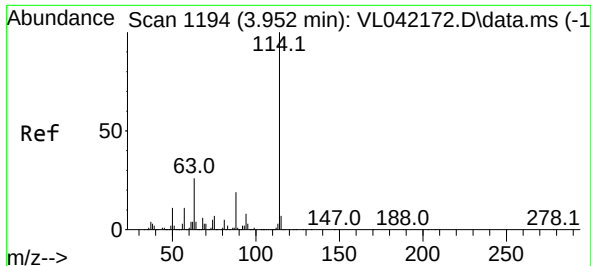
Tgt Ion: 61 Resp: 251202
 Ion Ratio Lower Upper
 61 100
 96 65.1 51.8 77.8
 98 41.2 30.6 46.0



#32
 1,1,1-Trichloroethane
 Concen: 8.998 ppbv
 RT: 3.386 min Scan# 1019
 Delta R.T. 0.023 min
 Lab File: VL042255.D
 Acq: 08 Apr 2025 10:05

Tgt Ion: 97 Resp: 402513
 Ion Ratio Lower Upper
 97 100
 99 64.2 51.5 77.3
 61 51.2 38.7 58.1





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.981 min Scan# 1194

Delta R.T. 0.029 min

Lab File: VL042255.D

Acq: 08 Apr 2025 10:05

Instrument :

MSVOA_1

ClientSampleId :

VL0408ABS01

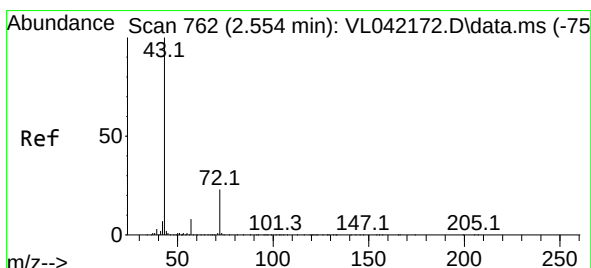
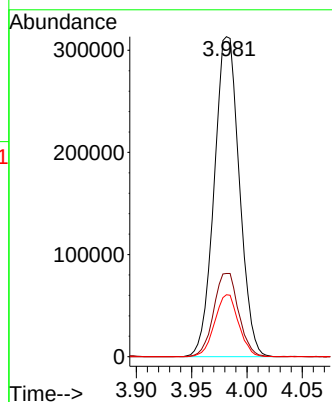
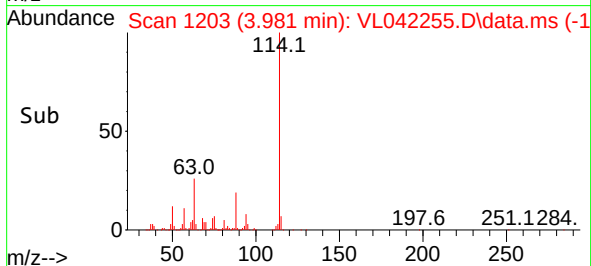
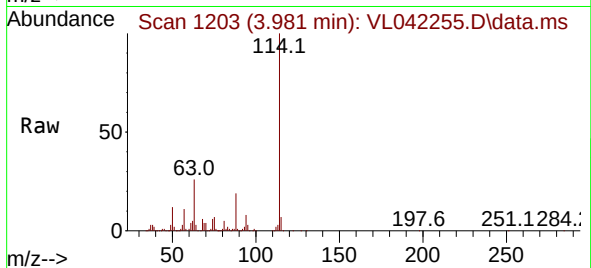
Tgt Ion:114 Resp: 494678

Ion Ratio Lower Upper

114 100

63 26.0 20.7 31.1

88 18.5 15.0 22.4



#34

2-Butanone

Concen: 10.575 ppbv

RT: 2.570 min Scan# 767

Delta R.T. 0.016 min

Lab File: VL042255.D

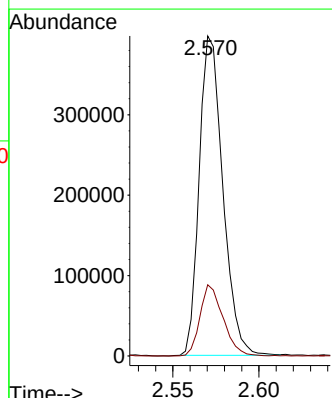
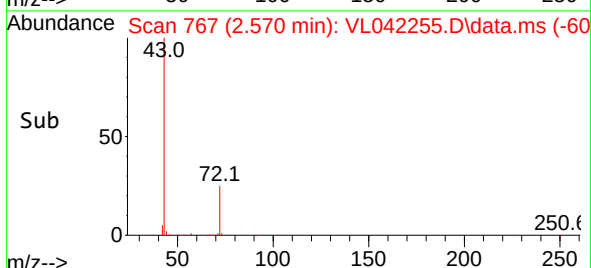
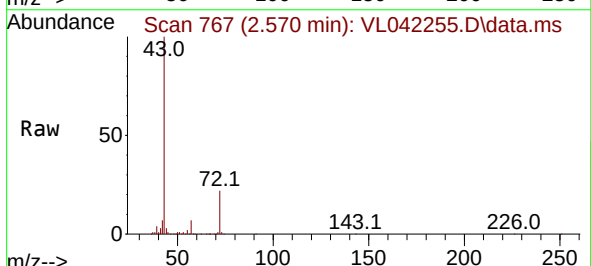
Acq: 08 Apr 2025 10:05

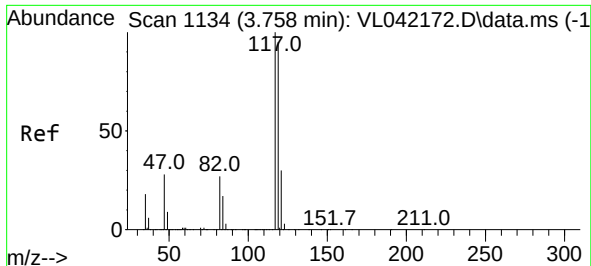
Tgt Ion: 43 Resp: 379327

Ion Ratio Lower Upper

43 100

72 21.8 18.2 27.2

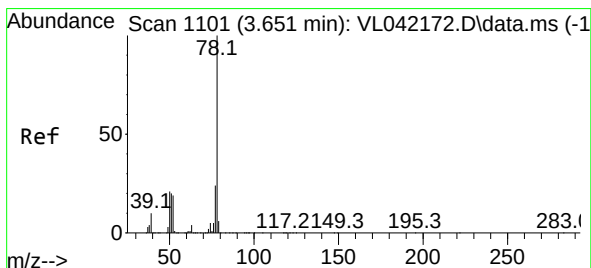
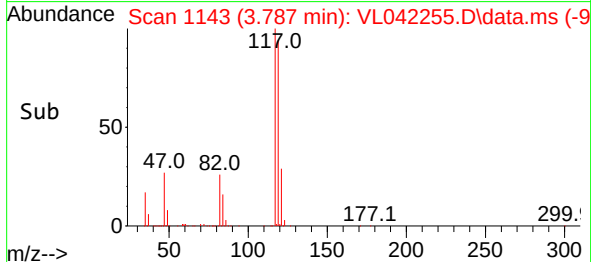
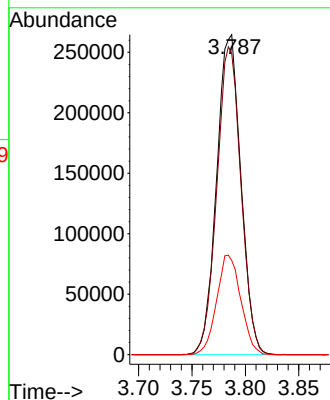
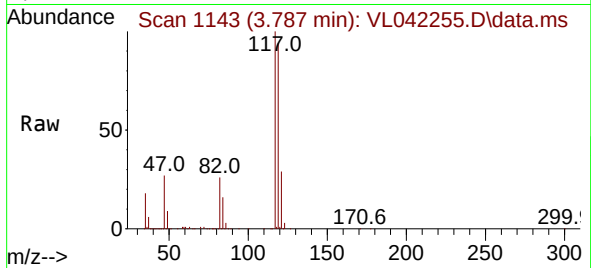




#35
Carbon Tetrachloride
Concen: 10.828 ppbv
RT: 3.787 min Scan# 1113
Delta R.T. 0.029 min
Lab File: VL042255.D
Acq: 08 Apr 2025 10:05

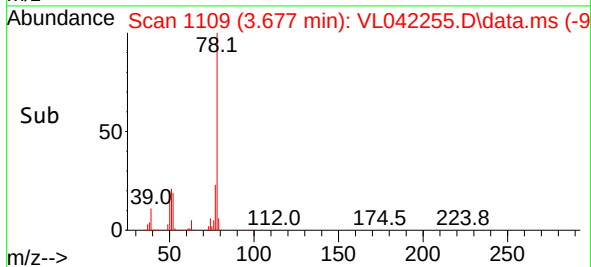
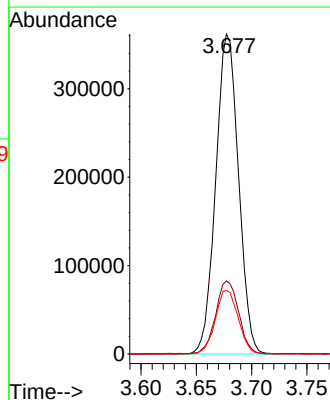
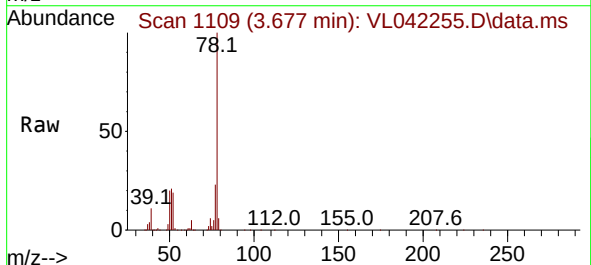
Instrument :
MSVOA_1
ClientSampleId :
VL0408ABS01

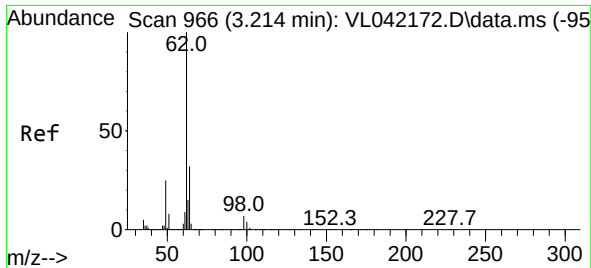
Tgt Ion:117 Resp: 418420
Ion Ratio Lower Upper
117 100
119 94.1 76.2 114.2
121 29.5 24.2 36.4



#36
Benzene
Concen: 10.564 ppbv
RT: 3.677 min Scan# 1109
Delta R.T. 0.026 min
Lab File: VL042255.D
Acq: 08 Apr 2025 10:05

Tgt Ion: 78 Resp: 518095
Ion Ratio Lower Upper
78 100
77 22.8 19.1 28.7
50 19.9 16.6 24.8





#37

1,2-Dichloroethane

Concen: 11.226 ppbv

RT: 3.237 min Scan# 91

Delta R.T. 0.023 min

Lab File: VL042255.D

Acq: 08 Apr 2025 10:05

Instrument :

MSVOA_L

ClientSampleId :

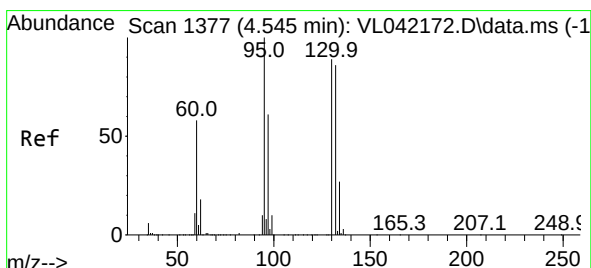
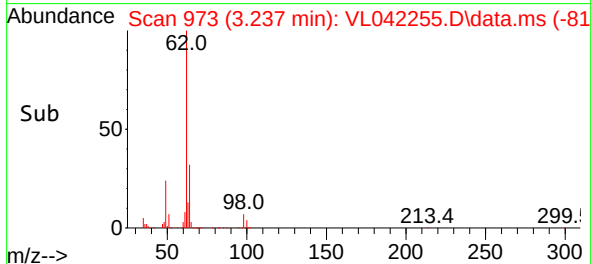
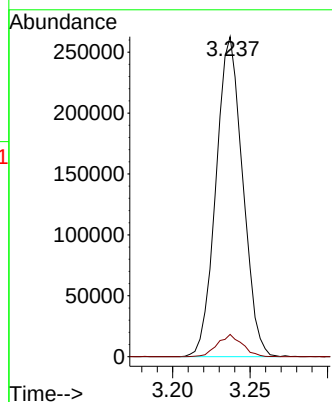
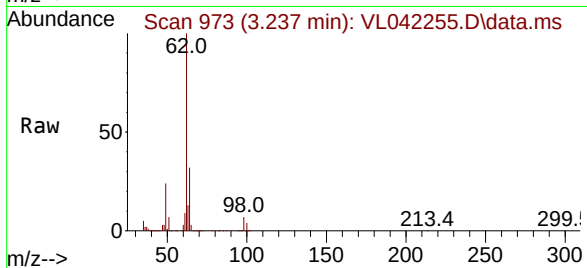
VL0408ABS01

Tgt Ion: 62 Resp: 315190

Ion Ratio Lower Upper

62 100

98 6.4 5.4 8.2



#38

Trichloroethene

Concen: 10.061 ppbv

RT: 4.577 min Scan# 1387

Delta R.T. 0.032 min

Lab File: VL042255.D

Acq: 08 Apr 2025 10:05

Tgt Ion:130 Resp: 205867

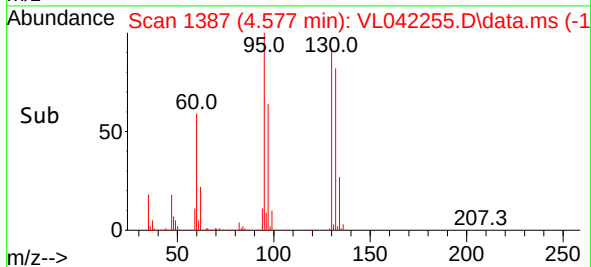
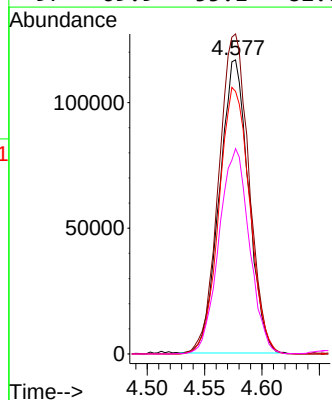
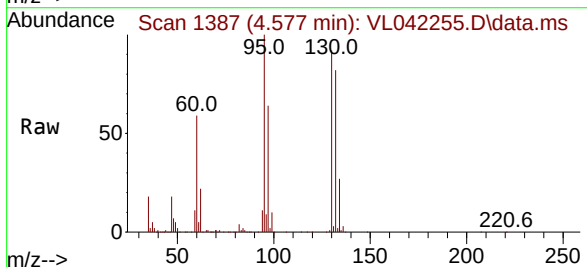
Ion Ratio Lower Upper

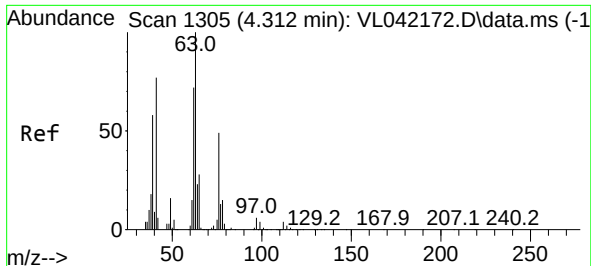
130 100

95 109.2 89.8 134.8

132 89.5 77.4 116.2

97 69.9 55.1 82.7





#39

1,2-Dichloropropane

Concen: 10.403 ppbv

RT: 4.341 min Scan# 1314

Delta R.T. 0.029 min

Lab File: VL042255.D

Acq: 08 Apr 2025 10:05

Instrument :

MSVOA_L

ClientSampleId :

VL0408ABS01

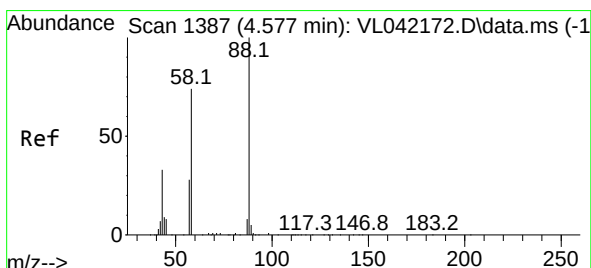
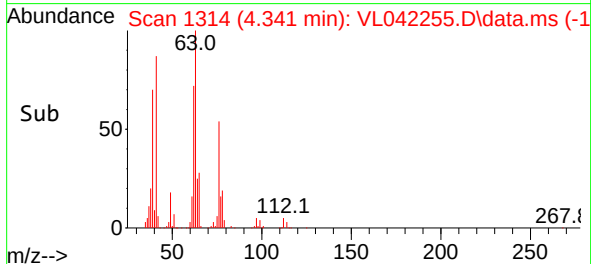
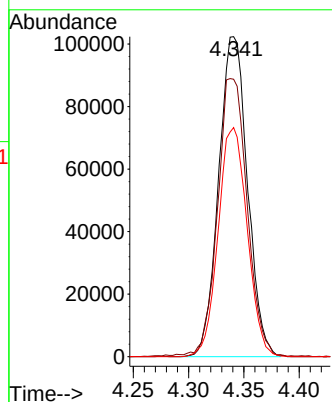
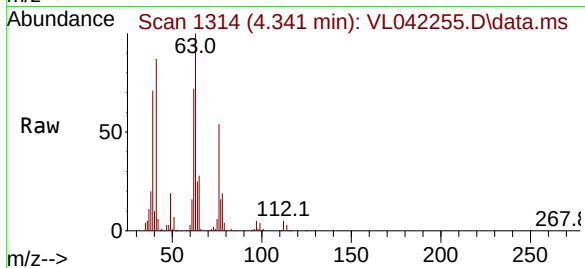
Tgt Ion: 63 Resp: 185795

Ion Ratio Lower Upper

63 100

41 86.0 61.7 92.5

62 71.6 57.6 86.4



#40

1,4-Dioxane

Concen: 9.608 ppbv

RT: 4.613 min Scan# 1398

Delta R.T. 0.036 min

Lab File: VL042255.D

Acq: 08 Apr 2025 10:05

Tgt Ion: 88 Resp: 91079

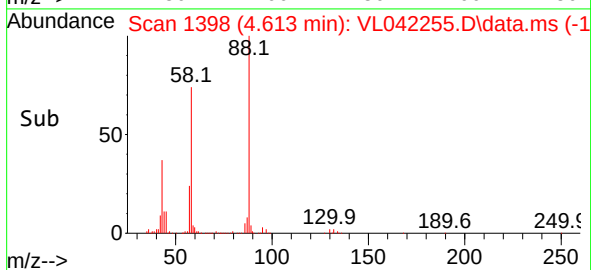
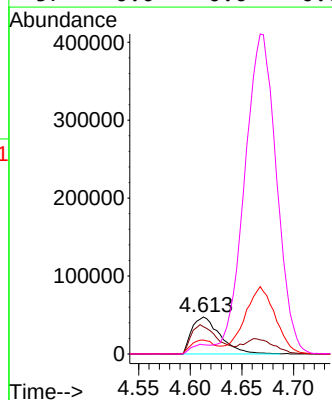
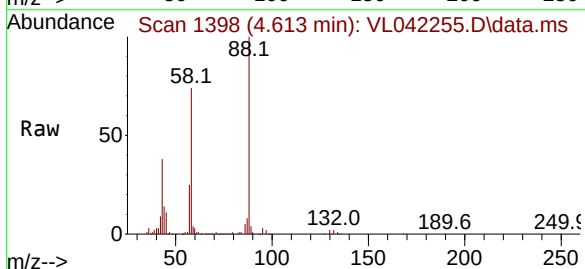
Ion Ratio Lower Upper

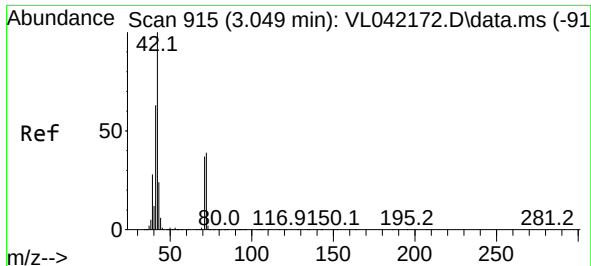
88 100

58 72.4 62.7 94.1

43 34.3 23.0 34.4

57 0.0 0.0 0.0

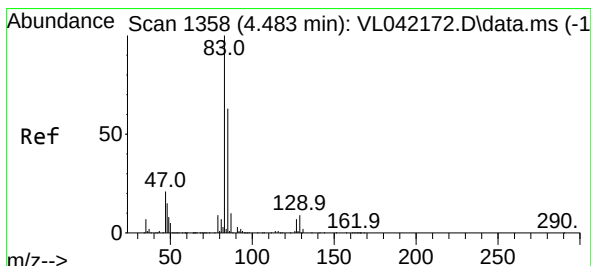
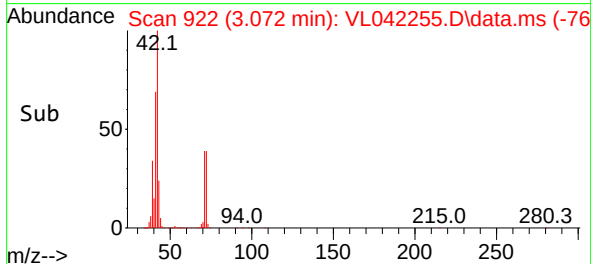
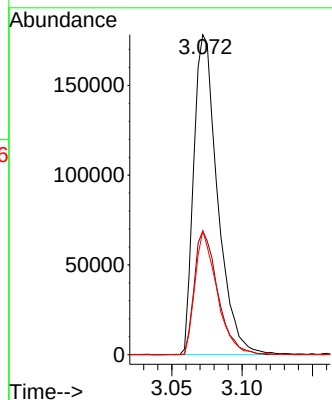
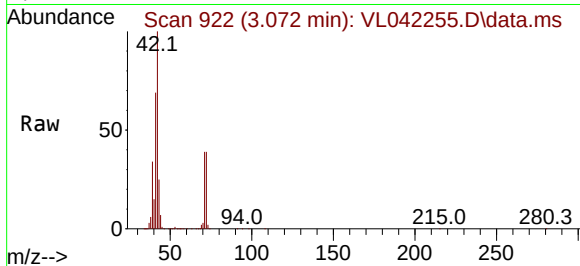




#41
Tetrahydrofuran
Concen: 10.168 ppbv
RT: 3.072 min Scan# 915
Delta R.T. 0.023 min
Lab File: VL042255.D
Acq: 08 Apr 2025 10:05

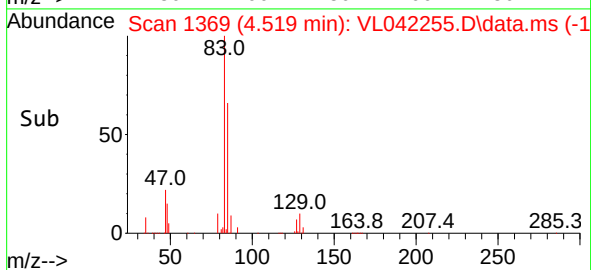
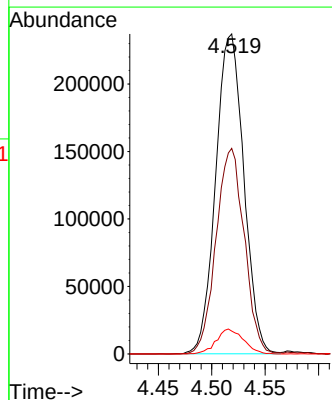
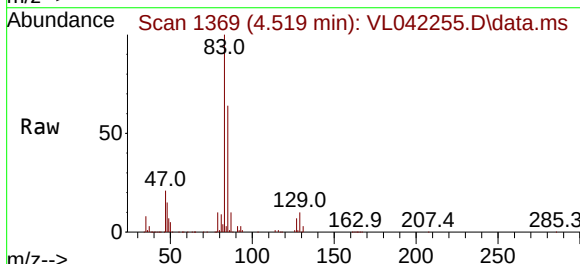
Instrument :
MSVOA_L
ClientSampleId :
VL0408ABS01

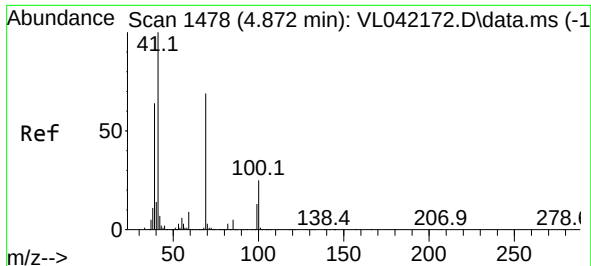
Tgt Ion: 42 Resp: 210024
Ion Ratio Lower Upper
42 100
72 38.1 31.4 47.0
71 35.8 30.2 45.4



#42
Bromodichloromethane
Concen: 11.217 ppbv
RT: 4.519 min Scan# 1369
Delta R.T. 0.036 min
Lab File: VL042255.D
Acq: 08 Apr 2025 10:05

Tgt Ion: 83 Resp: 434165
Ion Ratio Lower Upper
83 100
85 64.2 50.5 75.7
127 7.2 5.9 8.9

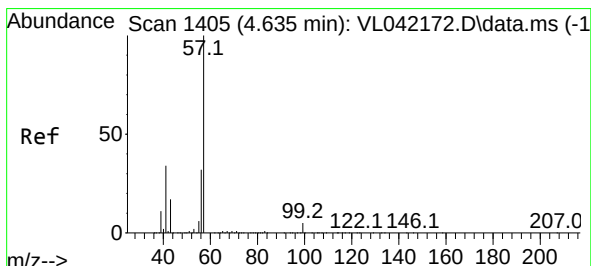
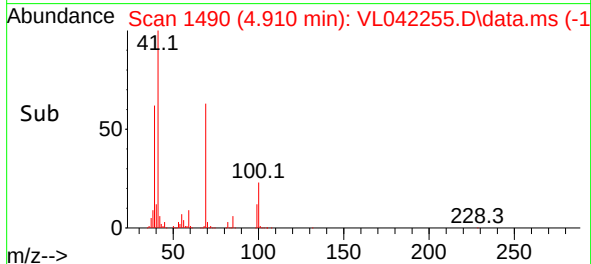
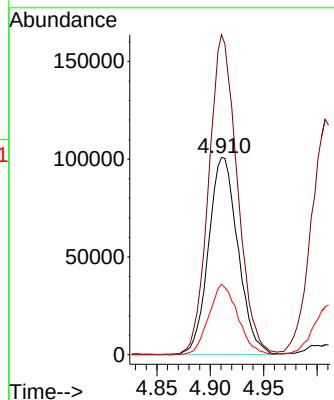
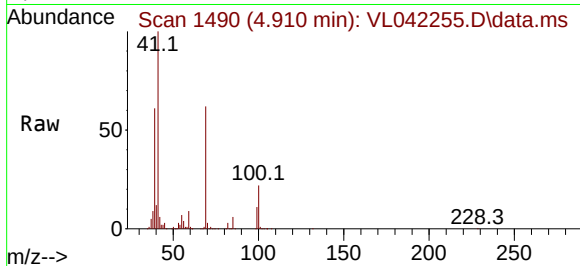




#43
Methyl Methacrylate
Concen: 9.277 ppbv
RT: 4.910 min Scan# 1415
Delta R.T. 0.039 min
Lab File: VL042255.D
Acq: 08 Apr 2025 10:05

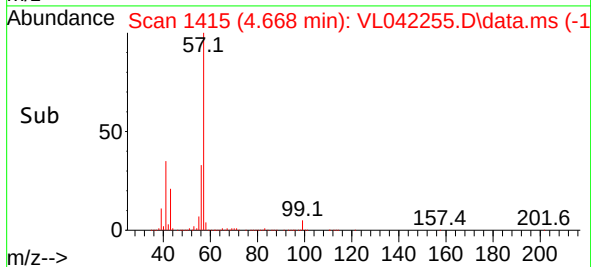
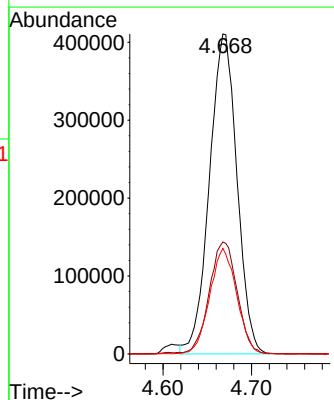
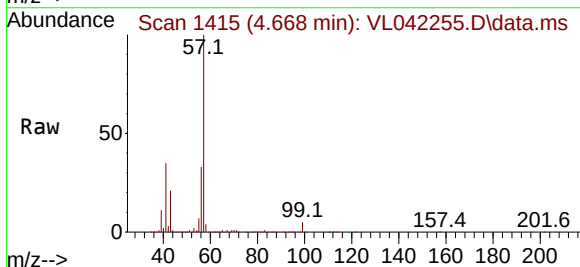
Instrument :
MSVOA_1
ClientSampleId :
VL0408ABS01

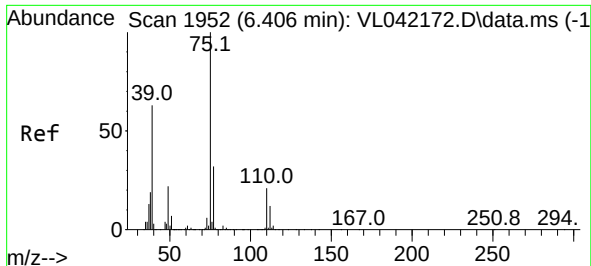
Tgt Ion: 69 Resp: 192595
Ion Ratio Lower Upper
69 100
41 157.9 123.8 185.6
100 35.4 28.4 42.6



#44
2,2,4-Trimethylpentane
Concen: 10.701 ppbv
RT: 4.668 min Scan# 1415
Delta R.T. 0.032 min
Lab File: VL042255.D
Acq: 08 Apr 2025 10:05

Tgt Ion: 57 Resp: 886873
Ion Ratio Lower Upper
57 100
41 35.8 26.8 40.2
56 32.5 25.6 38.4





#45

t-1,3-Dichloropropene

Concen: 8.299 ppbv

RT: 6.448 min Scan# 1952

Delta R.T. 0.042 min

Lab File: VL042255.D

Acq: 08 Apr 2025 10:05

Instrument :

MSVOA_1

ClientSampleId :

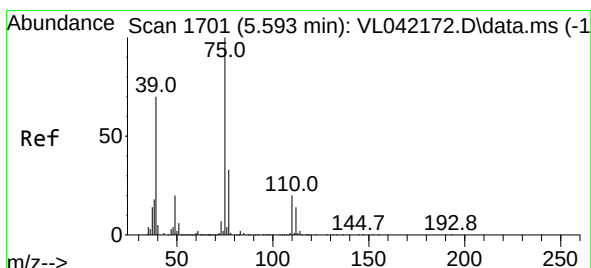
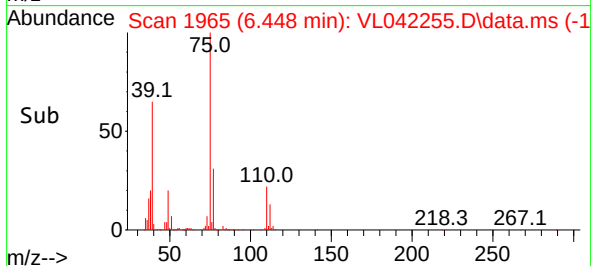
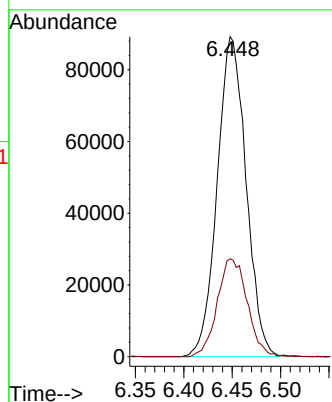
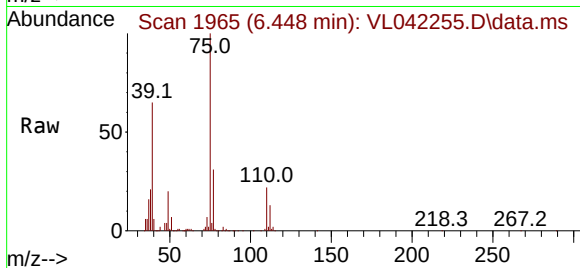
VL0408ABS01

Tgt Ion: 75 Resp: 184852

Ion Ratio Lower Upper

75 100

77 30.6 26.0 39.0



#46

cis-1,3-Dichloropropene

Concen: 9.149 ppbv

RT: 5.635 min Scan# 1714

Delta R.T. 0.042 min

Lab File: VL042255.D

Acq: 08 Apr 2025 10:05

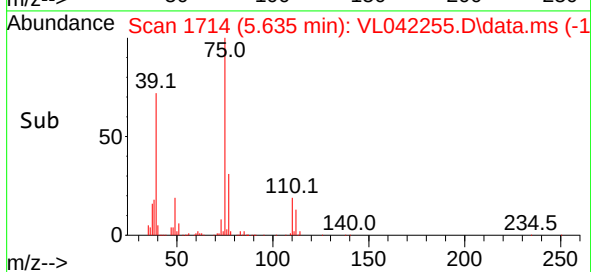
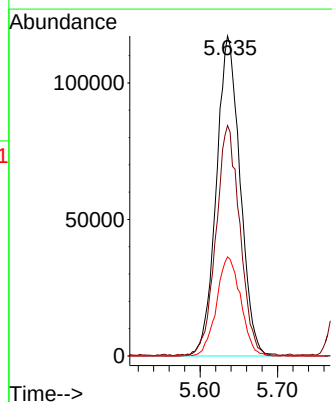
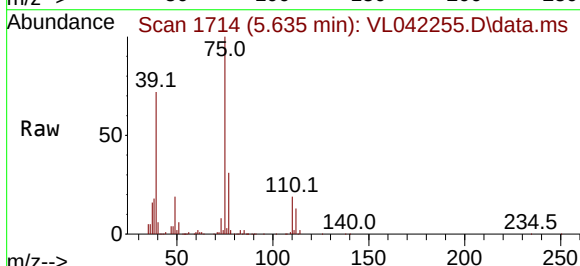
Tgt Ion: 75 Resp: 249791

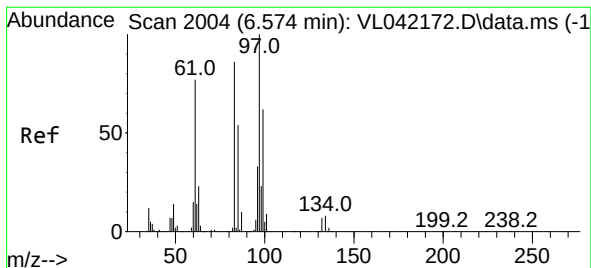
Ion Ratio Lower Upper

75 100

39 71.8 55.8 83.6

77 31.0 26.0 39.0





#47

1,1,2-Trichloroethane

Concen: 11.166 ppbv

RT: 6.613 min Scan# 2004

Delta R.T. 0.039 min

Lab File: VL042255.D

Acq: 08 Apr 2025 10:05

Instrument :

MSVOA_L

ClientSampleId :

VL0408ABS01

Tgt Ion: 97 Resp: 210809

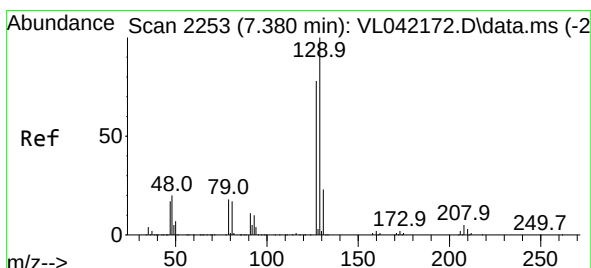
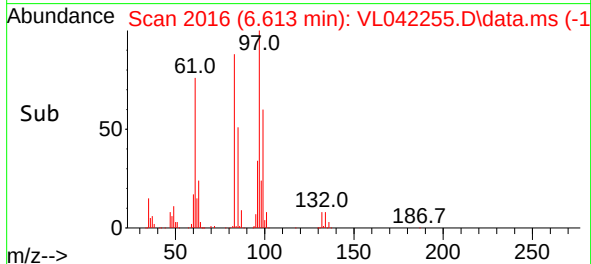
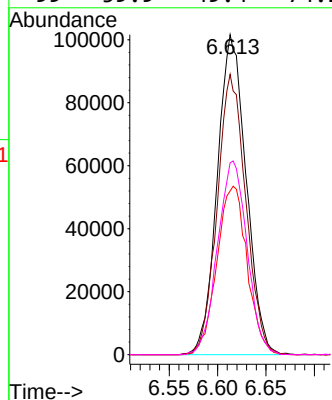
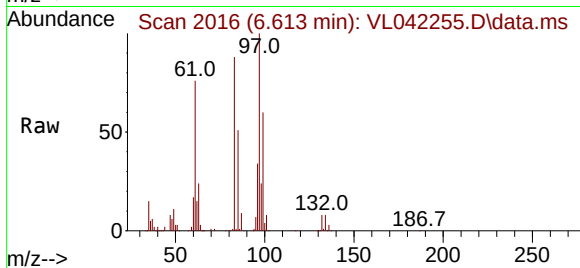
Ion Ratio Lower Upper

97 100

83 87.5 69.2 103.8

85 51.1 43.1 64.7

99 59.9 49.4 74.2



#48

Dibromochloromethane

Concen: 10.881 ppbv

RT: 7.412 min Scan# 2263

Delta R.T. 0.032 min

Lab File: VL042255.D

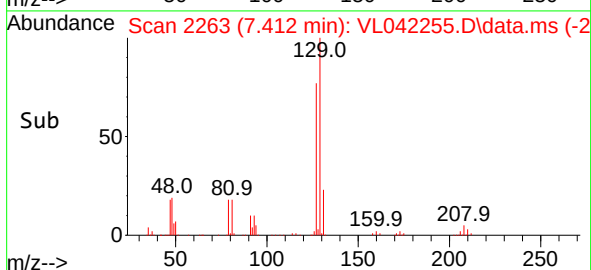
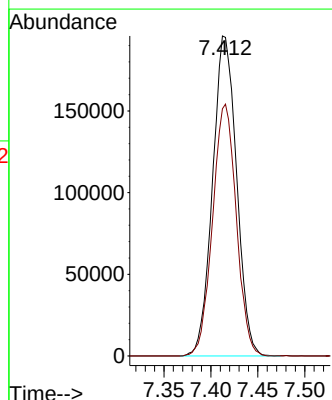
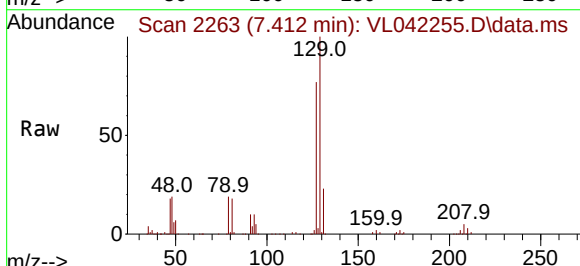
Acq: 08 Apr 2025 10:05

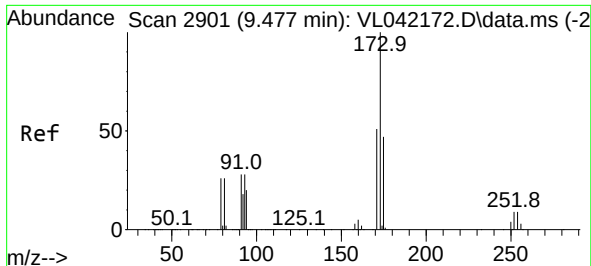
Tgt Ion: 129 Resp: 348149

Ion Ratio Lower Upper

129 100

127 77.6 39.1 117.2





#49

Bromoform

Concen: 10.703 ppbv

RT: 9.503 min Scan# 2909

Delta R.T. 0.026 min

Lab File: VL042255.D

Acq: 08 Apr 2025 10:05

Instrument :

MSVOA_L

ClientSampleId :

VL0408ABS01

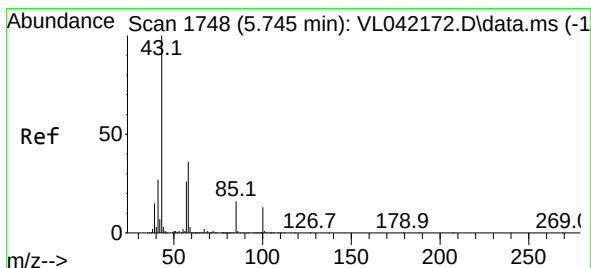
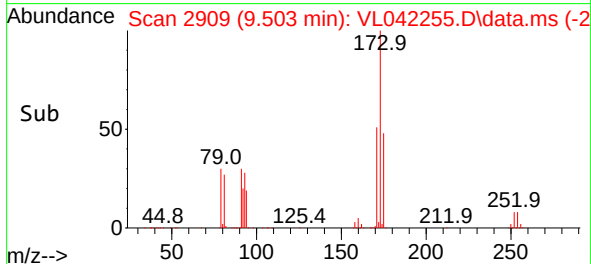
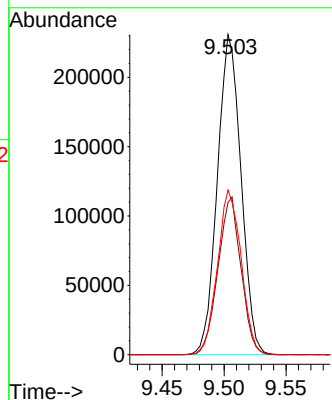
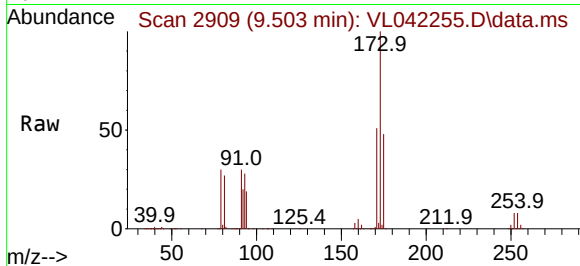
Tgt Ion:173 Resp: 307461

Ion Ratio Lower Upper

173 100

175 47.9 38.6 57.8

171 51.5 41.8 62.6



#50

4-Methyl-2-Pentanone

Concen: 9.554 ppbv

RT: 5.787 min Scan# 1761

Delta R.T. 0.042 min

Lab File: VL042255.D

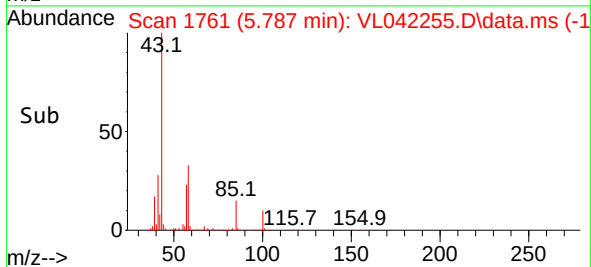
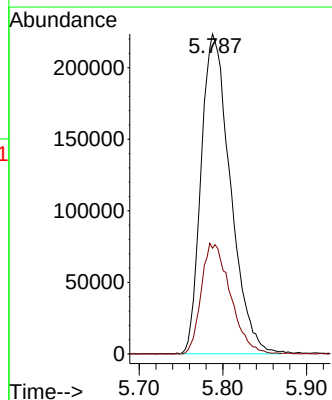
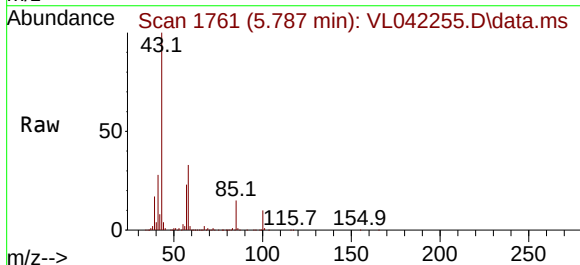
Acq: 08 Apr 2025 10:05

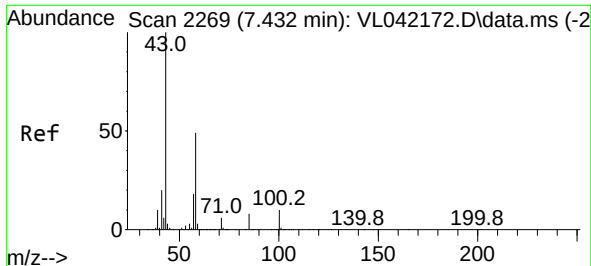
Tgt Ion: 43 Resp: 543140

Ion Ratio Lower Upper

43 100

58 34.5 29.0 43.6

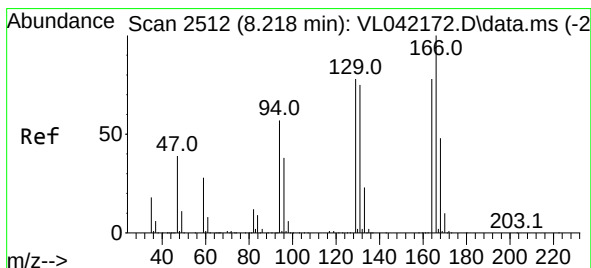
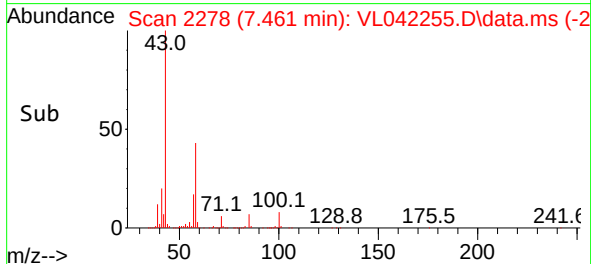
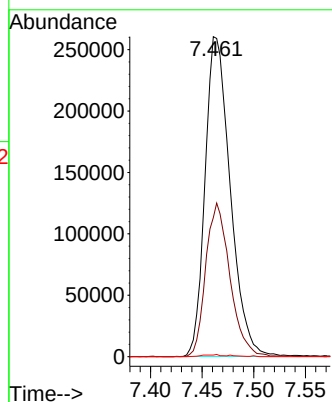
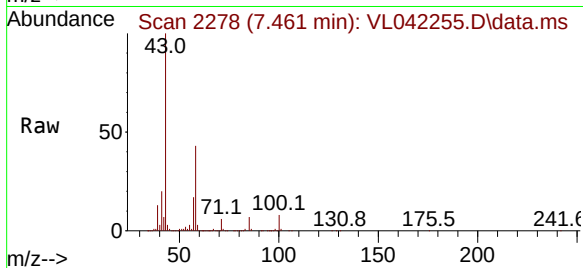




#51
2-Hexanone
Concen: 9.463 ppbv
RT: 7.461 min Scan# 21
Delta R.T. 0.029 min
Lab File: VL042255.D
Acq: 08 Apr 2025 10:05

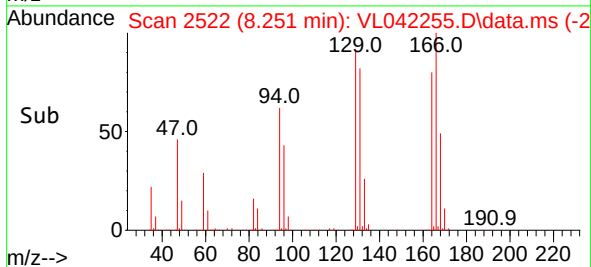
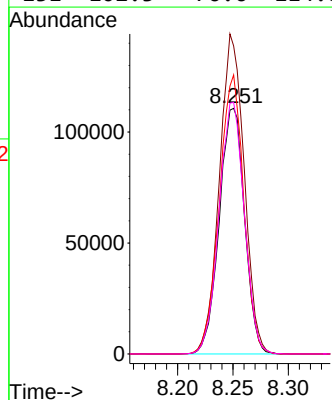
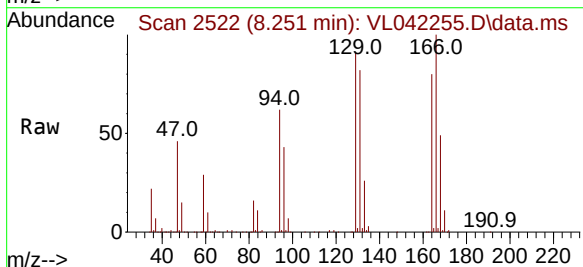
Instrument :
MSVOA_L
ClientSampleId :
VL0408ABS01

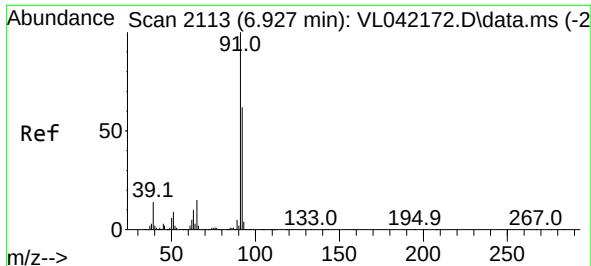
Tgt Ion: 43 Resp: 441742
Ion Ratio Lower Upper
43 100
58 46.3 39.7 59.5
98 0.7 0.1 0.1#



#52
Tetrachloroethene
Concen: 9.028 ppbv
RT: 8.251 min Scan# 2522
Delta R.T. 0.032 min
Lab File: VL042255.D
Acq: 08 Apr 2025 10:05

Tgt Ion: 164 Resp: 175587
Ion Ratio Lower Upper
164 100
166 125.3 102.5 153.7
129 113.6 79.8 119.8
131 102.3 76.6 114.8

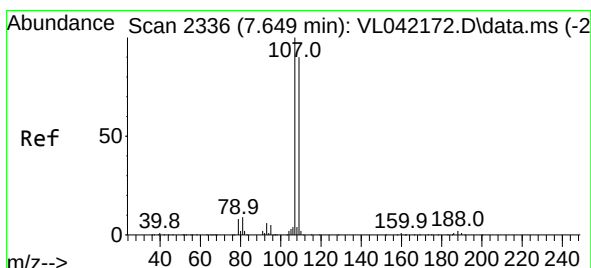
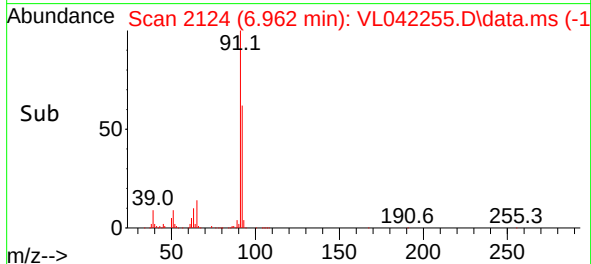
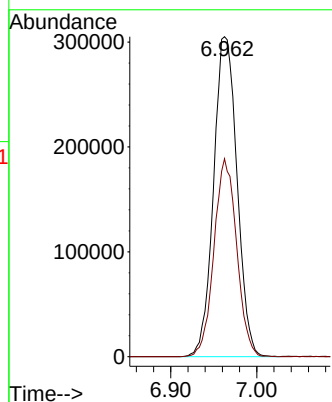
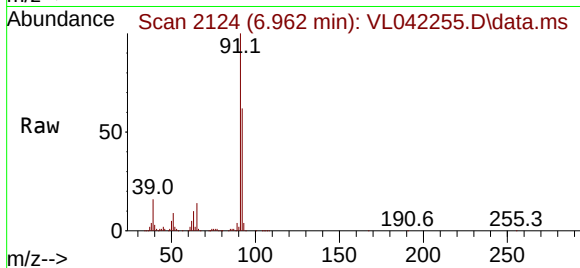




#53
Toluene
Concen: 9.947 ppbv
RT: 6.962 min Scan# 2113
Delta R.T. 0.036 min
Lab File: VL042255.D
Acq: 08 Apr 2025 10:05

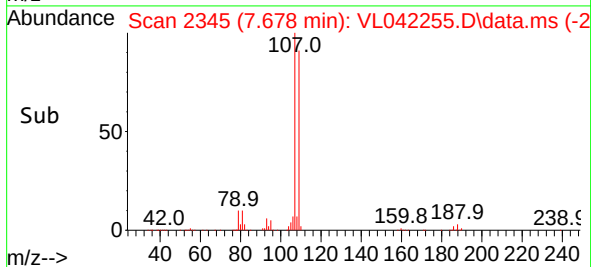
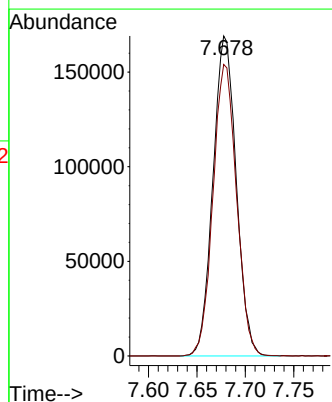
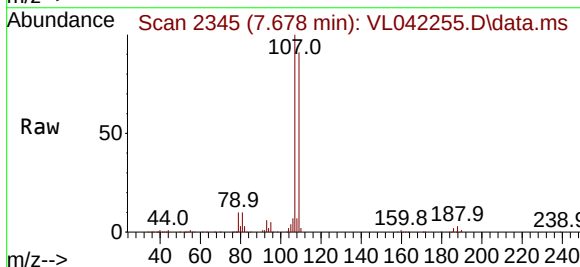
Instrument :
MSVOA_L
ClientSampleId :
VL0408ABS01

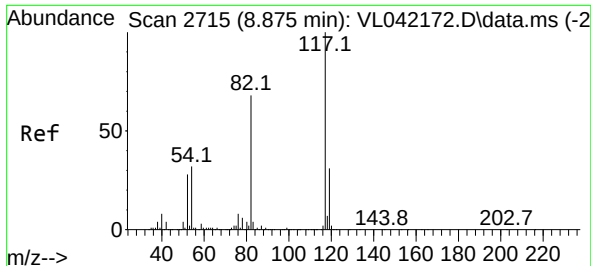
Tgt Ion: 91 Resp: 578261
Ion Ratio Lower Upper
91 100
92 59.8 48.4 72.6



#54
1,2-Dibromoethane
Concen: 10.730 ppbv
RT: 7.678 min Scan# 2345
Delta R.T. 0.029 min
Lab File: VL042255.D
Acq: 08 Apr 2025 10:05

Tgt Ion: 107 Resp: 282386
Ion Ratio Lower Upper
107 100
109 91.1 72.2 108.4

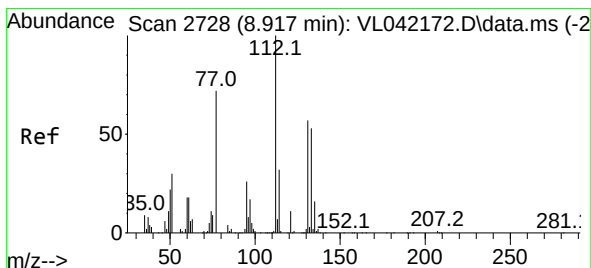
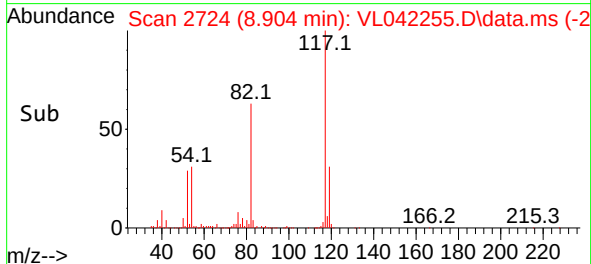
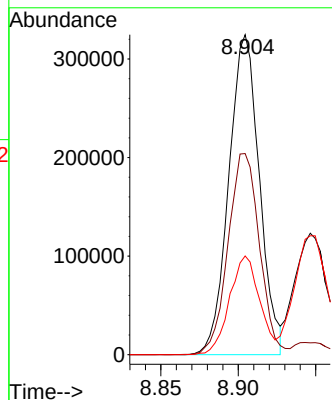
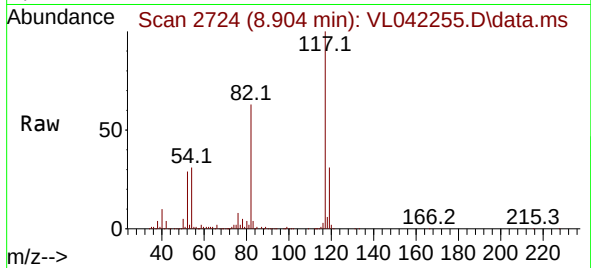




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.904 min Scan# 21
Delta R.T. 0.029 min
Lab File: VL042255.D
Acq: 08 Apr 2025 10:05

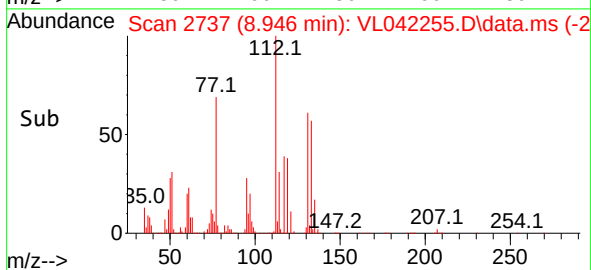
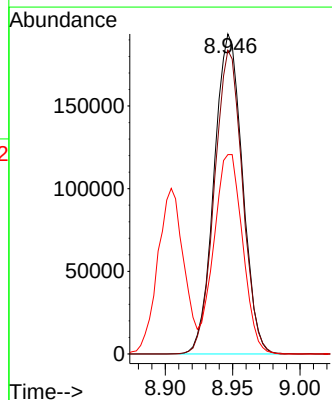
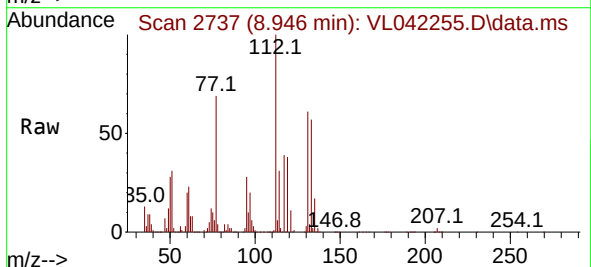
Instrument :
MSVOA_L
ClientSampleId :
VL0408ABS01

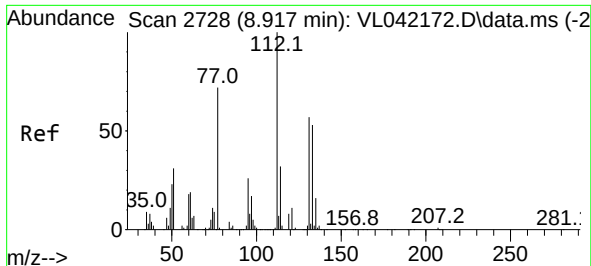
Tgt Ion:117 Resp: 447066
Ion Ratio Lower Upper
117 100
82 68.7 55.8 83.6
119 30.4 25.5 38.3



#56
1,1,1,2-Tetrachloroethane
Concen: 11.503 ppbv
RT: 8.946 min Scan# 2737
Delta R.T. 0.029 min
Lab File: VL042255.D
Acq: 08 Apr 2025 10:05

Tgt Ion:131 Resp: 283080
Ion Ratio Lower Upper
131 100
133 93.9 76.6 114.8
119 64.5 49.8 74.6

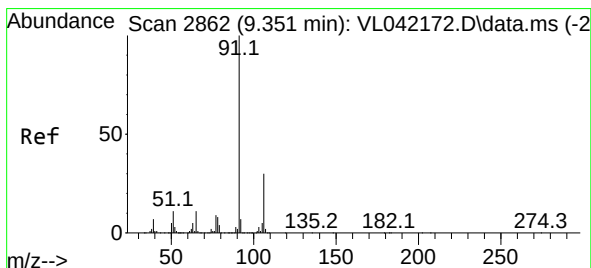
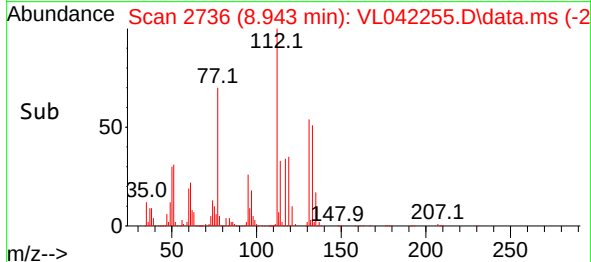
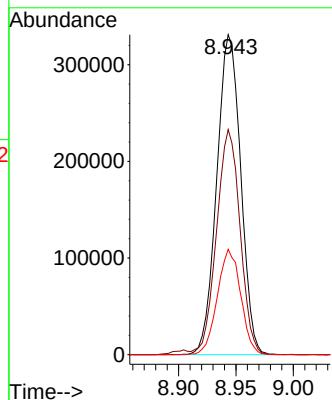
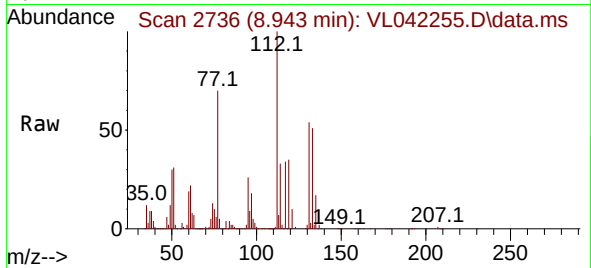




#57
Chlorobenzene
Concen: 11.360 ppbv
RT: 8.943 min Scan# 21
Delta R.T. 0.026 min
Lab File: VL042255.D
Acq: 08 Apr 2025 10:05

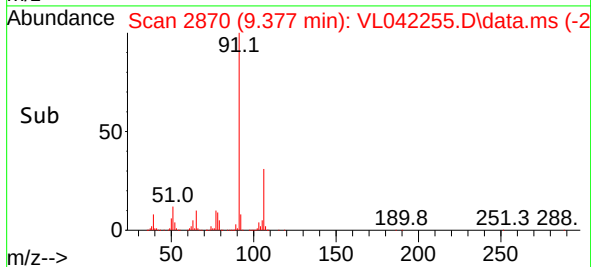
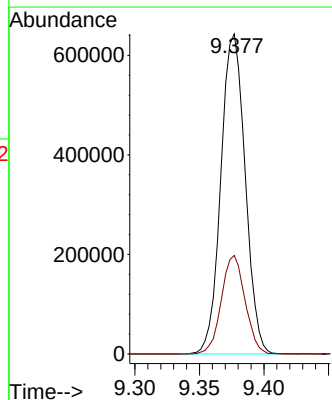
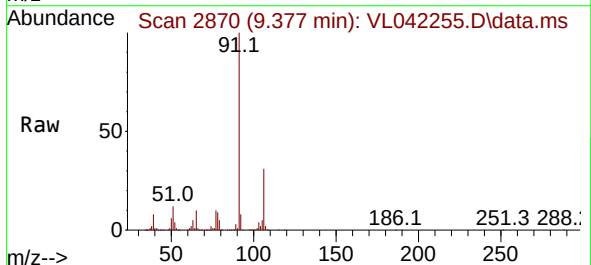
Instrument :
MSVOA_1
ClientSampleId :
VL0408ABS01

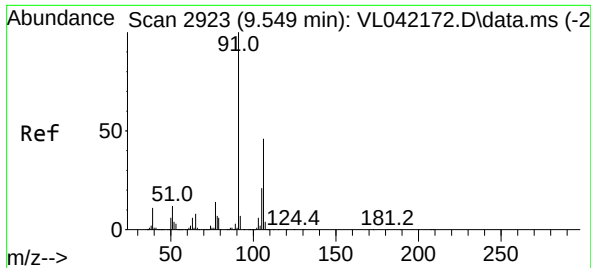
Tgt Ion:112 Resp: 481713
Ion Ratio Lower Upper
112 100
77 70.3 58.2 87.2
114 32.9 29.1 35.5



#58
Ethyl Benzene
Concen: 10.593 ppbv
RT: 9.377 min Scan# 2870
Delta R.T. 0.026 min
Lab File: VL042255.D
Acq: 08 Apr 2025 10:05

Tgt Ion: 91 Resp: 841166
Ion Ratio Lower Upper
91 100
106 30.8 24.2 36.2





#59

m/p-Xylene

Concen: 10.962 ppbv

RT: 9.571 min Scan# 29

Delta R.T. 0.023 min

Lab File: VL042255.D

Acq: 08 Apr 2025 10:05

Instrument :

MSVOA_L

ClientSampleId :

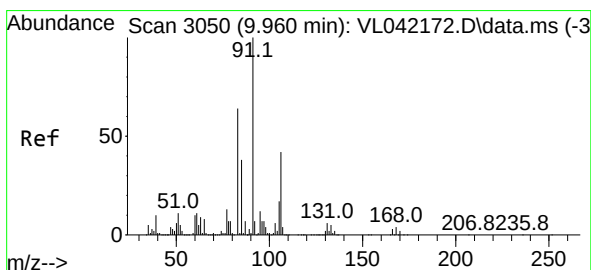
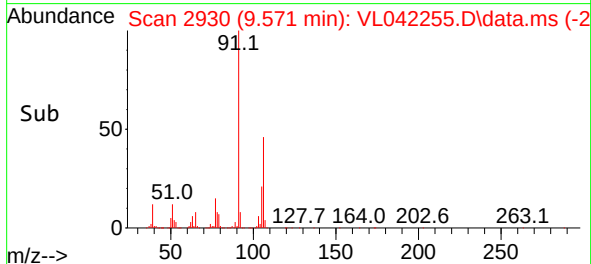
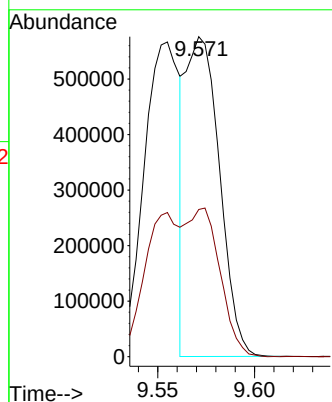
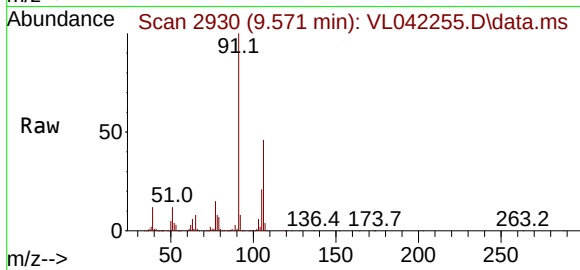
VL0408ABS01

Tgt Ion: 91 Resp: 695111

Ion Ratio Lower Upper

91 100

106 94.5 36.4 54.6#



#60

o-Xylene

Concen: 11.194 ppbv

RT: 9.982 min Scan# 3057

Delta R.T. 0.023 min

Lab File: VL042255.D

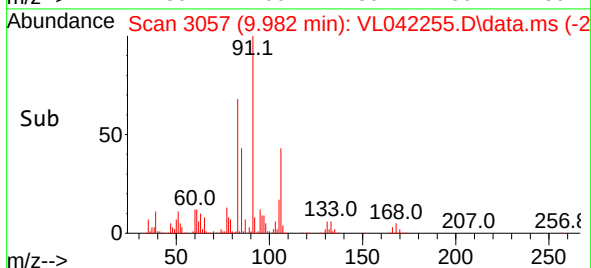
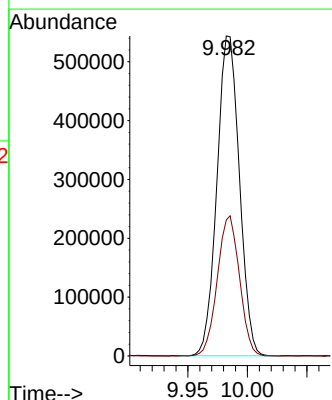
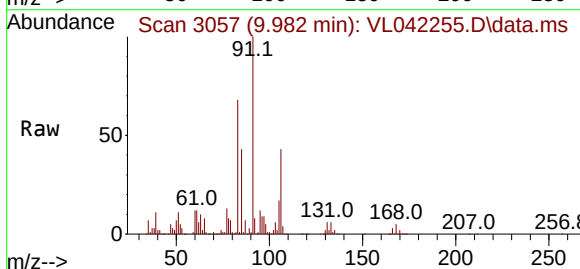
Acq: 08 Apr 2025 10:05

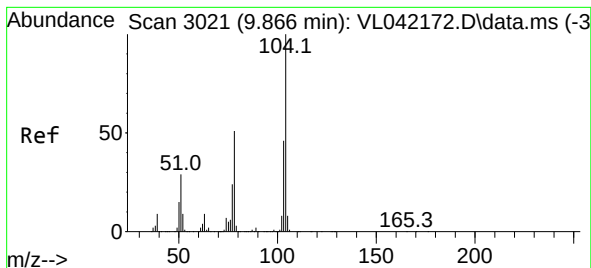
Tgt Ion: 91 Resp: 711568

Ion Ratio Lower Upper

91 100

106 43.2 20.8 62.5





#61

Styrene

Concen: 10.149 ppbv

RT: 9.888 min Scan# 3021

Delta R.T. 0.023 min

Lab File: VL042255.D

Acq: 08 Apr 2025 10:05

Instrument :

MSVOA_L

ClientSampleId :

VL0408ABS01

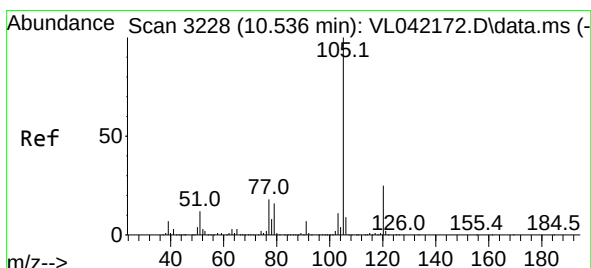
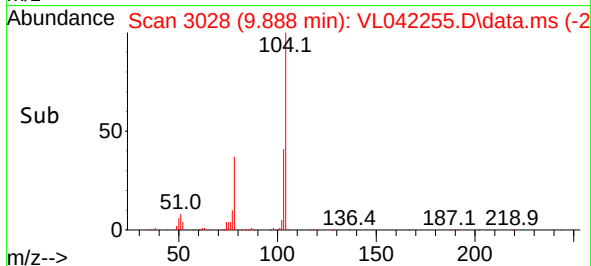
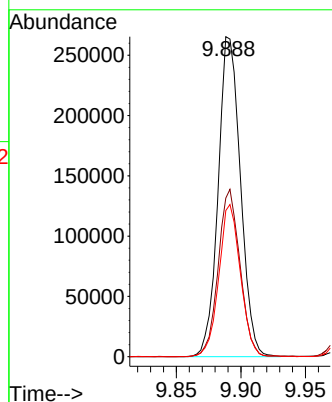
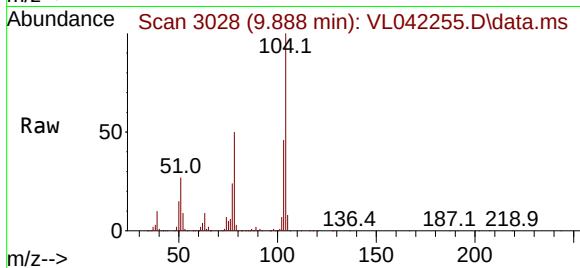
Tgt Ion:104 Resp: 319155

Ion Ratio Lower Upper

104 100

78 51.1 41.8 62.6

103 46.2 37.0 55.4



#62

Isopropylbenzene

Concen: 11.193 ppbv

RT: 10.558 min Scan# 3235

Delta R.T. 0.023 min

Lab File: VL042255.D

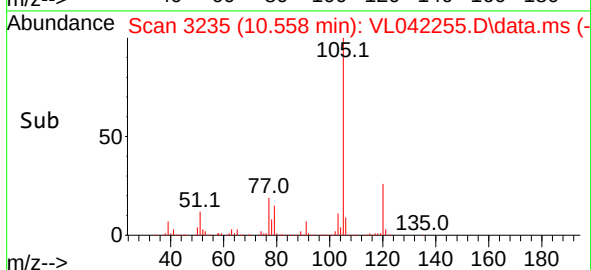
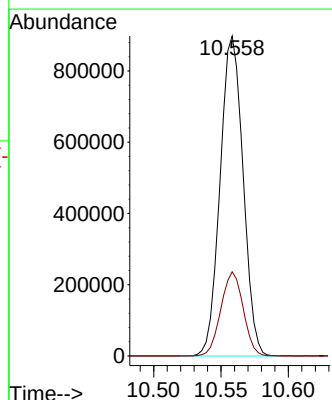
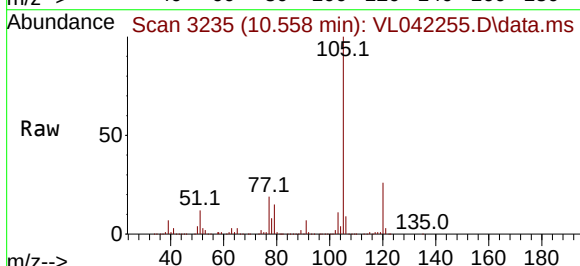
Acq: 08 Apr 2025 10:05

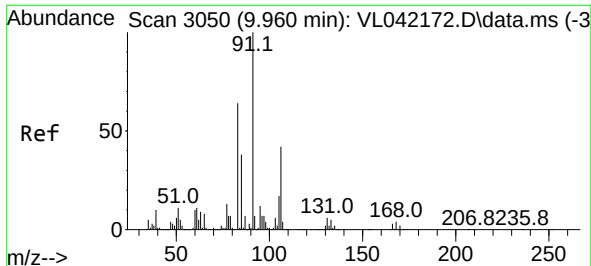
Tgt Ion:105 Resp: 1063992

Ion Ratio Lower Upper

105 100

120 25.5 19.9 29.9

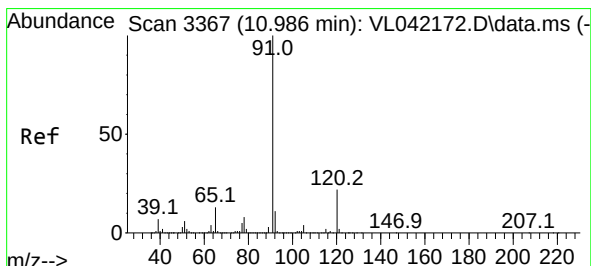
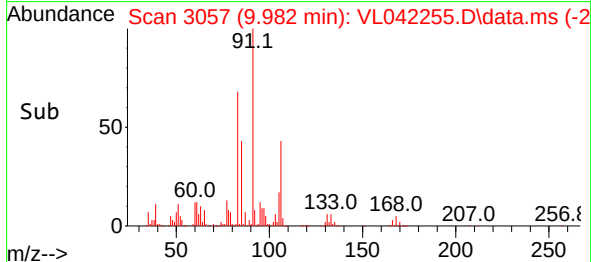
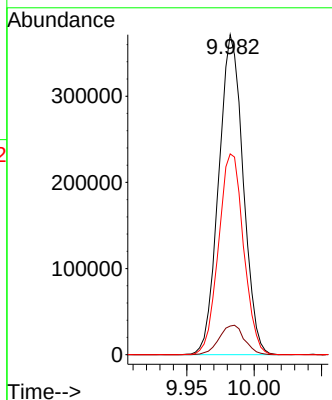
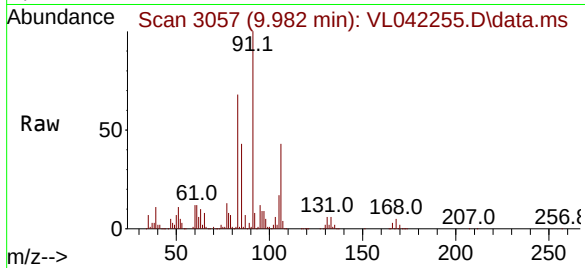




#63
1,1,2,2-Tetrachloroethane
Concen: 12.139 ppbv
RT: 9.982 min Scan# 3057
Delta R.T. 0.023 min
Lab File: VL042255.D
Acq: 08 Apr 2025 10:05

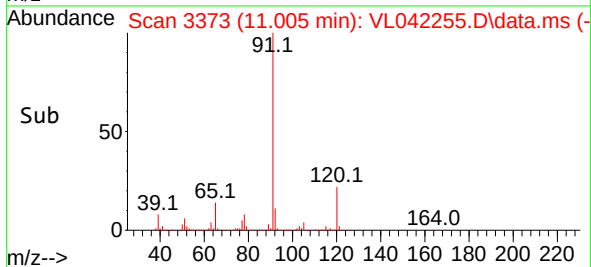
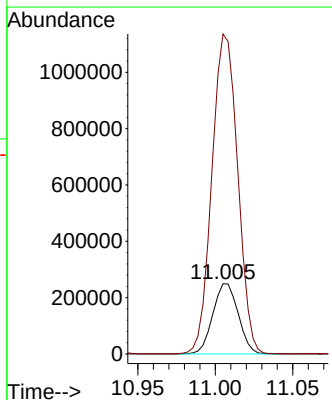
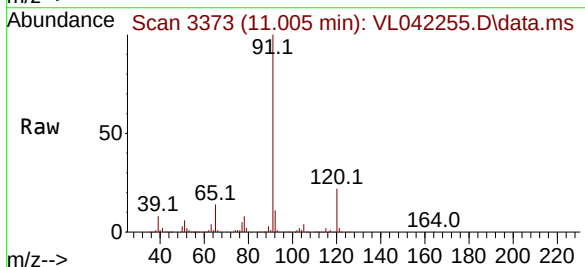
Instrument :
MSVOA_1
ClientSampleId :
VL0408ABS01

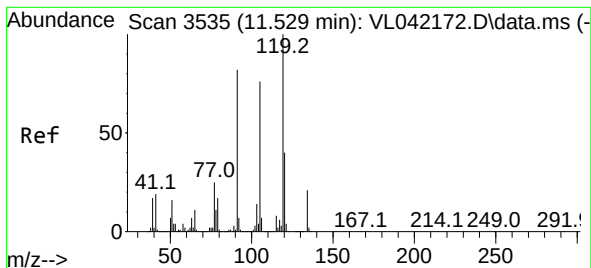
Tgt Ion: 83 Resp: 468851
Ion Ratio Lower Upper
83 100
131 9.5 4.8 14.4
85 64.2 32.5 97.5



#64
n-propylbenzene
Concen: 11.638 ppbv
RT: 11.005 min Scan# 3373
Delta R.T. 0.019 min
Lab File: VL042255.D
Acq: 08 Apr 2025 10:05

Tgt Ion:120 Resp: 284790
Ion Ratio Lower Upper
120 100
91 462.1 376.9 565.3





#65

tert-Butylbenzene

Concen: 11.112 ppbv

RT: 11.549 min Scan# 3541

Delta R.T. 0.019 min

Lab File: VL042255.D

Acq: 08 Apr 2025 10:05

Instrument :

MSVOA_1

ClientSampleId :

VL0408ABS01

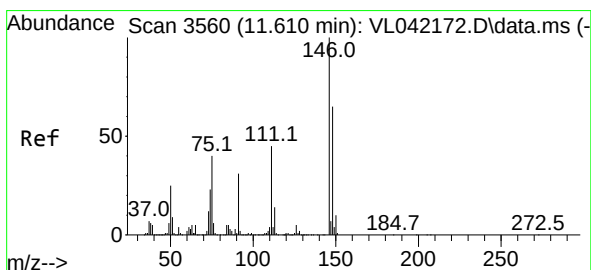
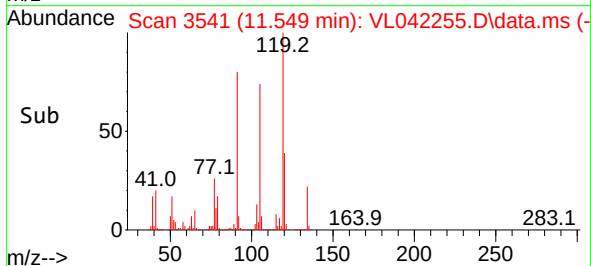
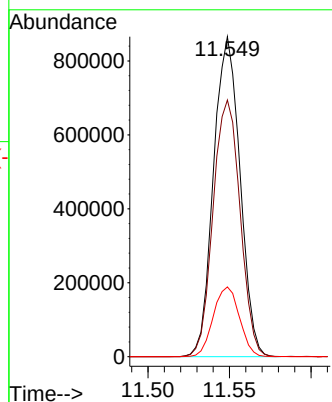
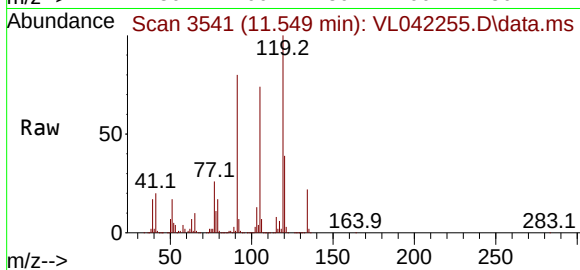
Tgt Ion:119 Resp: 976872

Ion Ratio Lower Upper

119 100

91 81.9 66.0 99.0

134 21.5 16.7 25.1



#66

Benzyl Chloride

Concen: 6.860 ppbv

RT: 11.633 min Scan# 3567

Delta R.T. 0.023 min

Lab File: VL042255.D

Acq: 08 Apr 2025 10:05

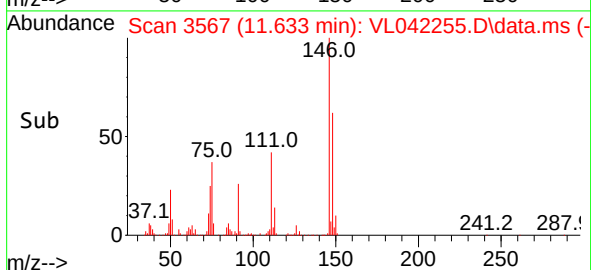
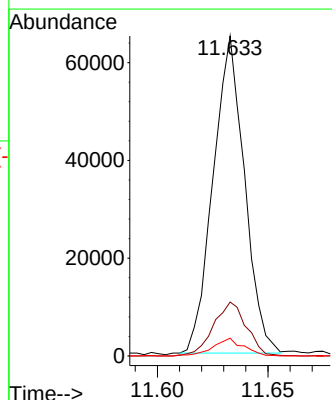
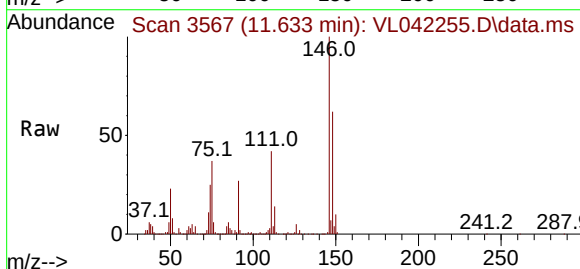
Tgt Ion: 91 Resp: 63988

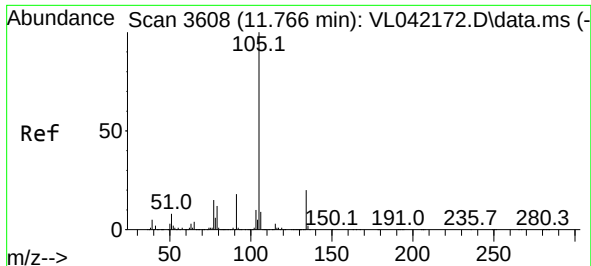
Ion Ratio Lower Upper

91 100

126 17.9 13.8 20.6

128 5.5 4.5 6.7

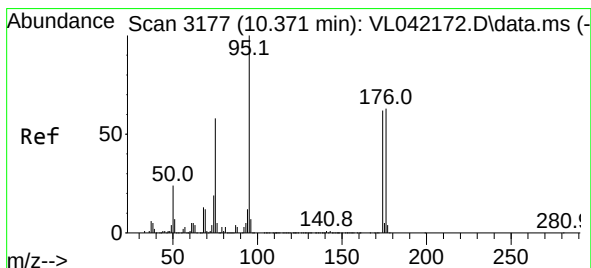
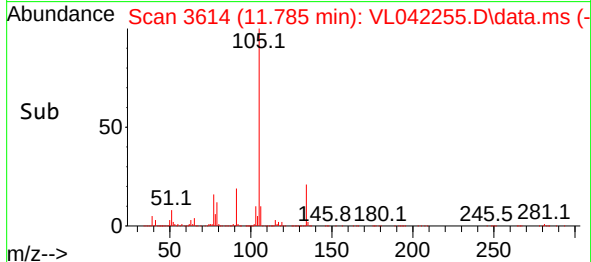
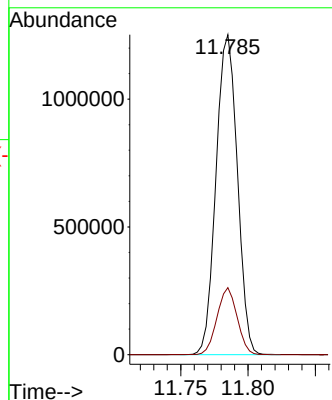
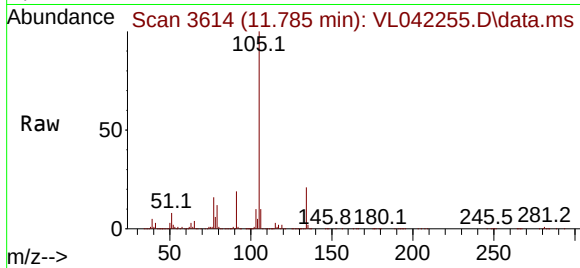




#67
 sec-Butylbenzene
 Concen: 11.275 ppbv
 RT: 11.785 min Scan# 3184
 Delta R.T. 0.019 min
 Lab File: VL042255.D
 Acq: 08 Apr 2025 10:05

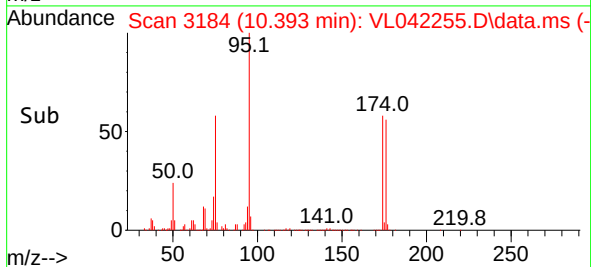
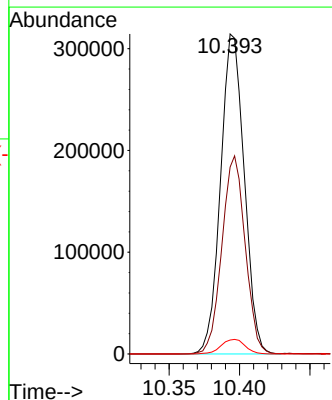
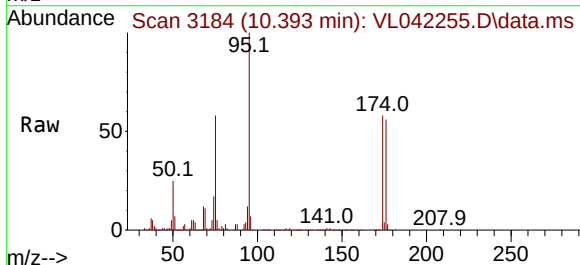
Instrument :
 MSVOA_1
 ClientSampleId :
 VL0408ABS01

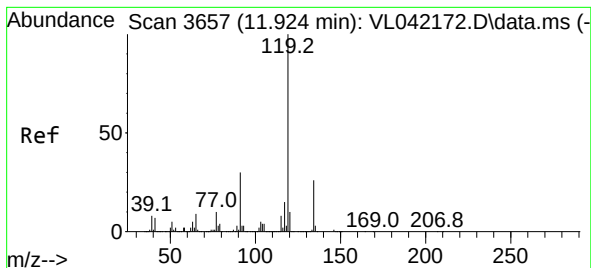
Tgt Ion:105 Resp: 1377726
 Ion Ratio Lower Upper
 105 100
 134 19.8 15.5 23.3



#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.008 ppbv
 RT: 10.393 min Scan# 3184
 Delta R.T. 0.023 min
 Lab File: VL042255.D
 Acq: 08 Apr 2025 10:05

Tgt Ion: 95 Resp: 367418
 Ion Ratio Lower Upper
 95 100
 174 61.1 50.6 76.0
 175 4.7 3.8 5.6





#69

p-Isopropyltoluene

Concen: 11.104 ppbv

RT: 11.940 min Scan# 3

Delta R.T. 0.016 min

Lab File: VL042255.D

Acq: 08 Apr 2025 10:05

Instrument :

MSVOA_L

ClientSampleId :

VL0408ABS01

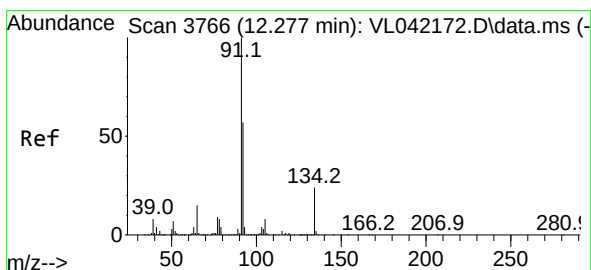
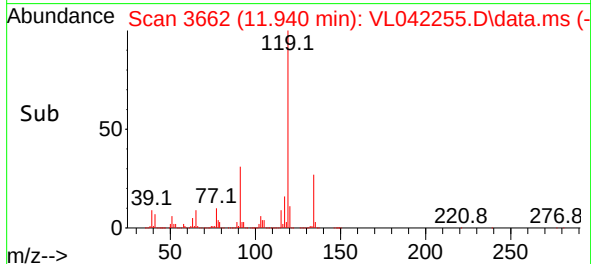
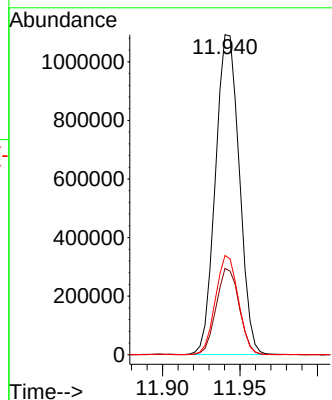
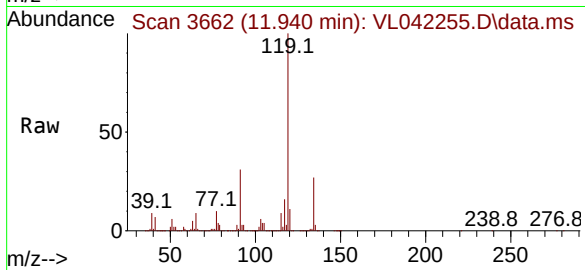
Tgt Ion:119 Resp: 1168405

Ion Ratio Lower Upper

119 100

134 26.2 20.4 30.6

91 29.9 23.7 35.5



#70

n-Butylbenzene

Concen: 11.312 ppbv

RT: 12.296 min Scan# 3772

Delta R.T. 0.019 min

Lab File: VL042255.D

Acq: 08 Apr 2025 10:05

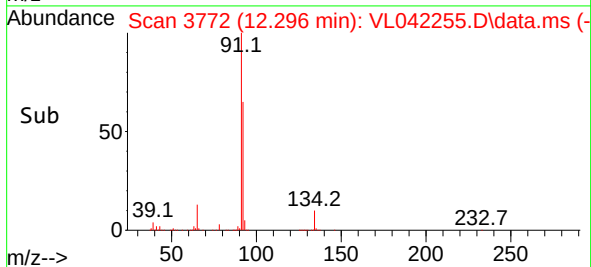
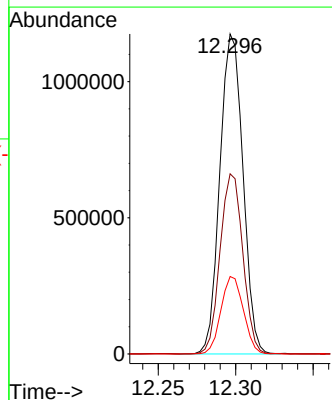
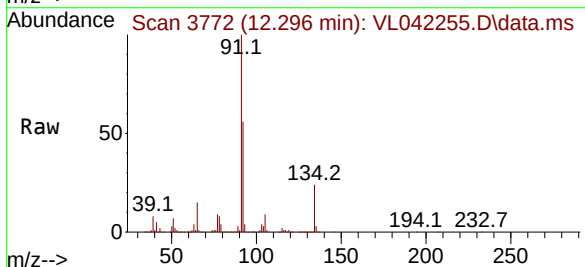
Tgt Ion: 91 Resp: 1217247

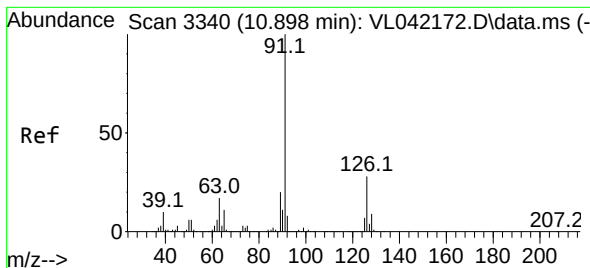
Ion Ratio Lower Upper

91 100

92 55.7 44.9 67.3

134 23.6 19.2 28.8





#71

2-Chlorotoluene

Concen: 11.078 ppbv

RT: 10.918 min Scan# 31

Delta R.T. 0.019 min

Lab File: VL042255.D

Acq: 08 Apr 2025 10:05

Instrument :

MSVOA_L

ClientSampleId :

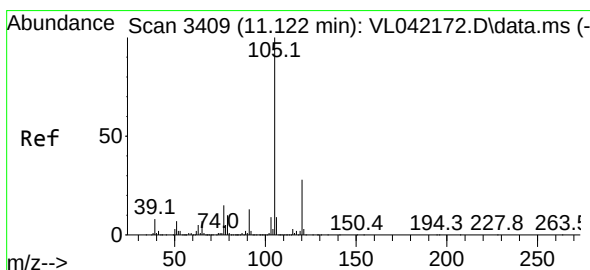
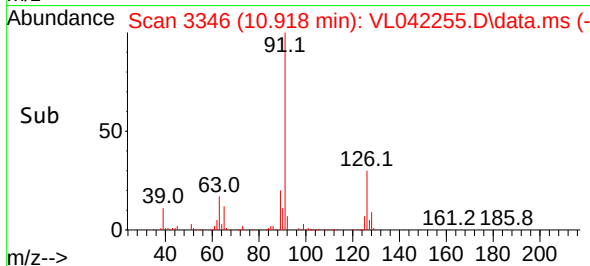
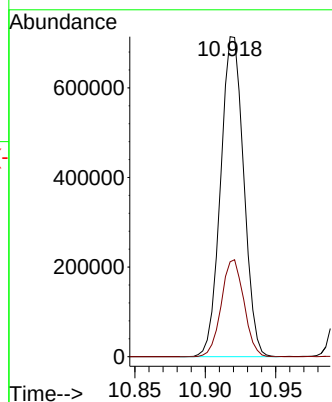
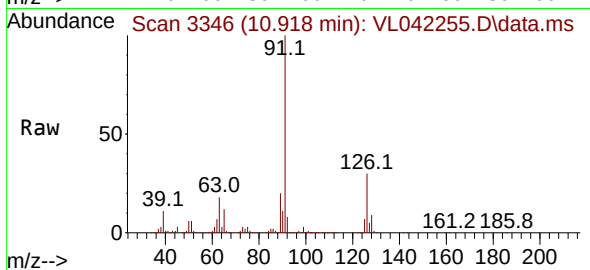
VL0408ABS01

Tgt Ion: 91 Resp: 817332

Ion Ratio Lower Upper

91 100

126 29.6 11.6 46.4



#72

4-Ethyltoluene

Concen: 11.460 ppbv

RT: 11.141 min Scan# 3415

Delta R.T. 0.019 min

Lab File: VL042255.D

Acq: 08 Apr 2025 10:05

Tgt Ion: 105 Resp: 906994

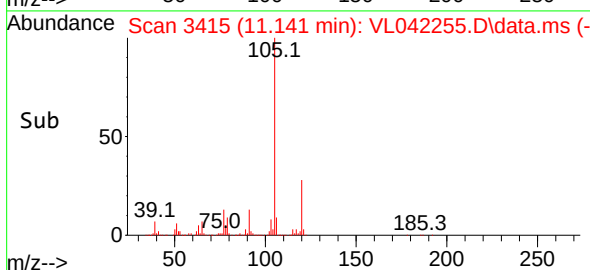
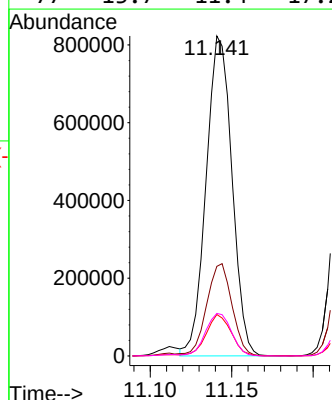
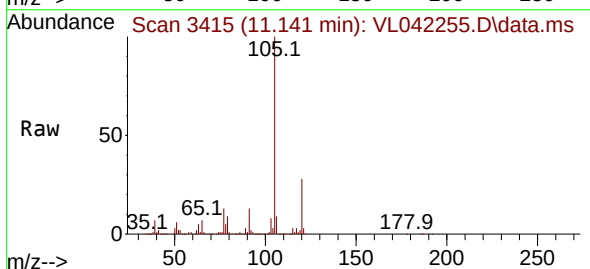
Ion Ratio Lower Upper

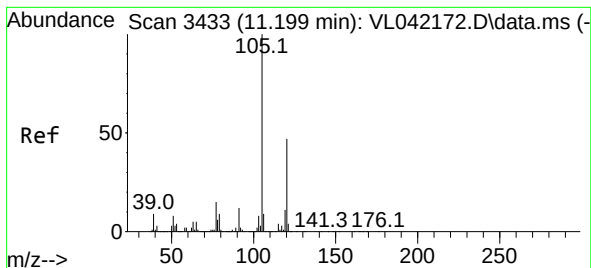
105 100

120 29.0 23.4 35.0

91 12.8 10.3 15.5

77 13.7 11.4 17.2





#73

1,3,5-Trimethylbenzene

Concen: 11.187 ppbv

RT: 11.222 min Scan# 34

Delta R.T. 0.023 min

Lab File: VL042255.D

Acq: 08 Apr 2025 10:05

Instrument :

MSVOA_L

ClientSampleId :

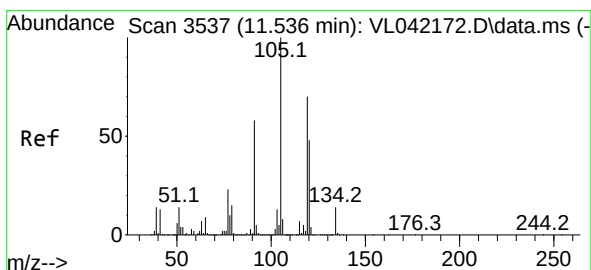
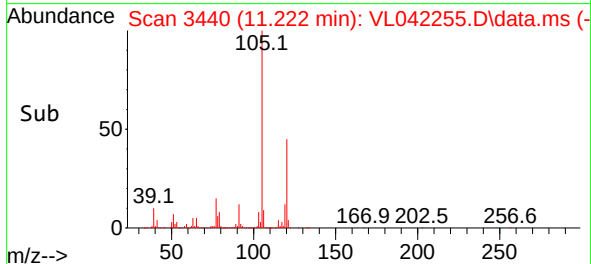
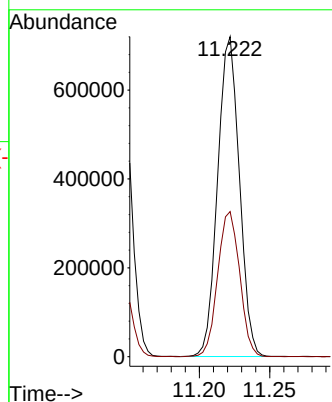
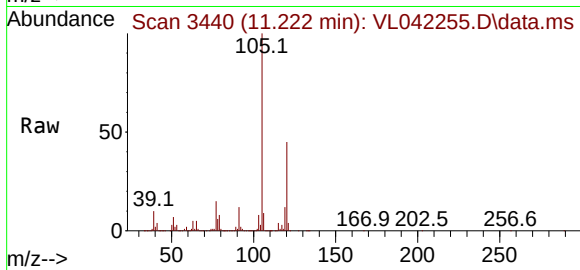
VL0408ABS01

Tgt Ion:105 Resp: 773328

Ion Ratio Lower Upper

105 100

120 45.4 37.4 56.0



#74

1,2,4-Trimethylbenzene

Concen: 10.827 ppbv

RT: 11.555 min Scan# 3543

Delta R.T. 0.019 min

Lab File: VL042255.D

Acq: 08 Apr 2025 10:05

Tgt Ion:105 Resp: 862179

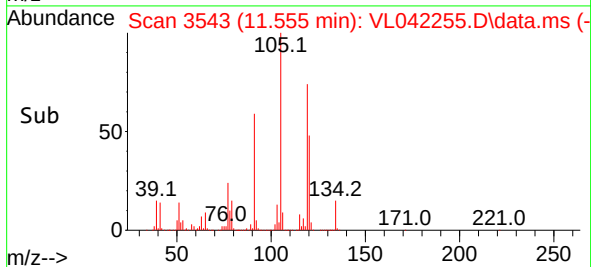
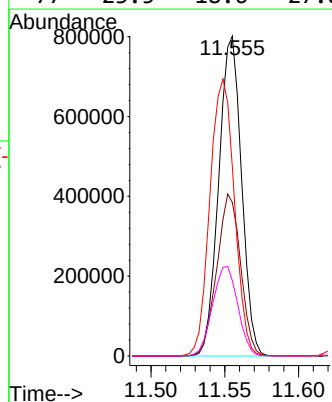
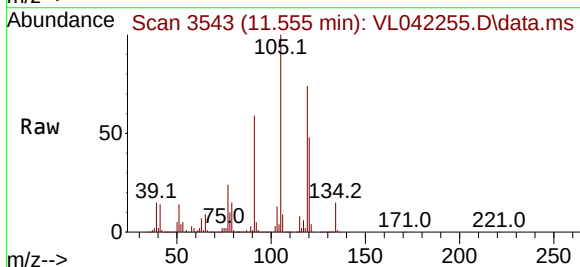
Ion Ratio Lower Upper

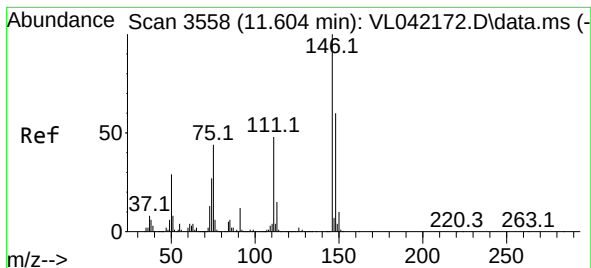
105 100

120 47.9 38.6 58.0

91 59.0 46.2 69.2

77 23.5 18.6 27.8





#75

1,3-Dichlorobenzene

Concen: 11.739 ppbv

RT: 11.623 min Scan# 3564

Delta R.T. 0.019 min

Lab File: VL042255.D

Acq: 08 Apr 2025 10:05

Instrument :

MSVOA_L

ClientSampleId :

VL0408ABS01

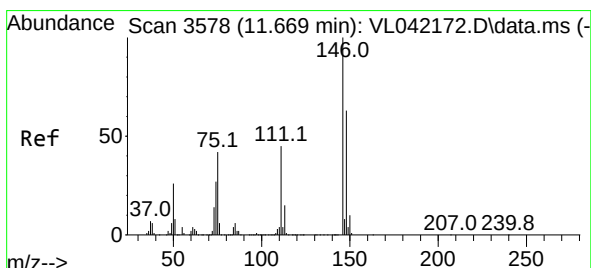
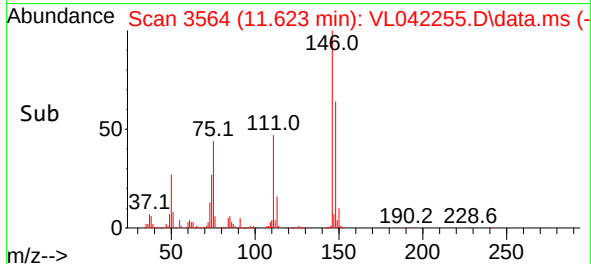
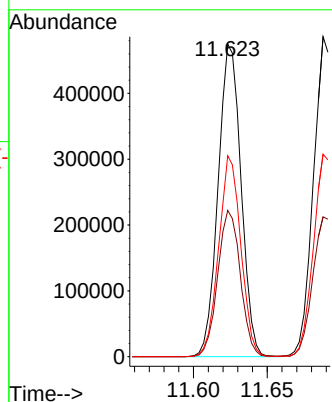
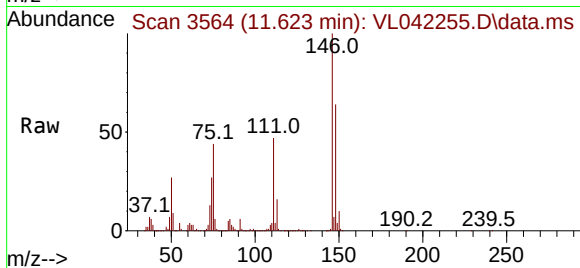
Tgt Ion:146 Resp: 512731

Ion Ratio Lower Upper

146 100

111 46.2 23.8 71.2

148 62.2 31.9 95.9



#76

1,4-Dichlorobenzene

Concen: 11.619 ppbv

RT: 11.688 min Scan# 3584

Delta R.T. 0.019 min

Lab File: VL042255.D

Acq: 08 Apr 2025 10:05

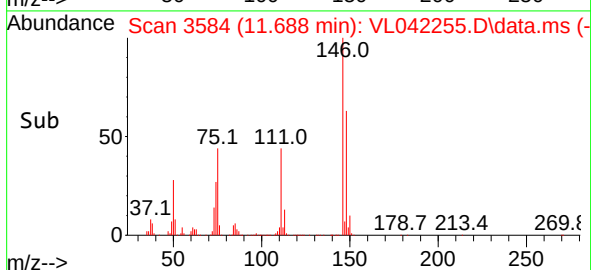
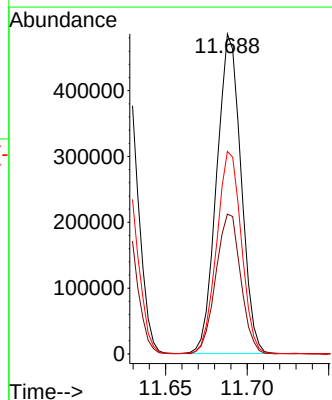
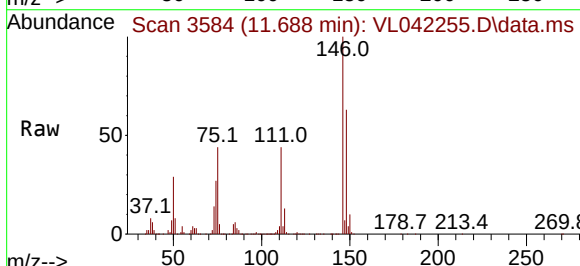
Tgt Ion:146 Resp: 505049

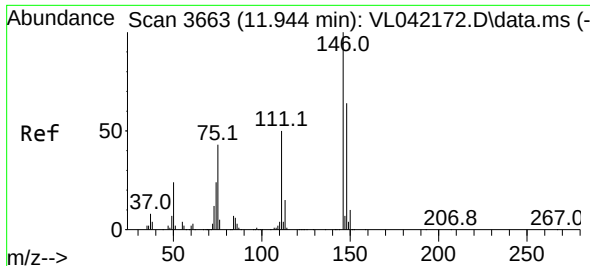
Ion Ratio Lower Upper

146 100

111 44.9 23.0 69.0

148 64.4 31.9 95.7

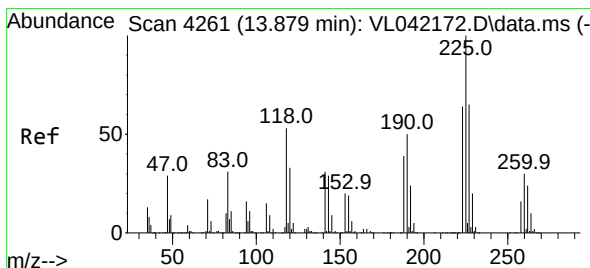
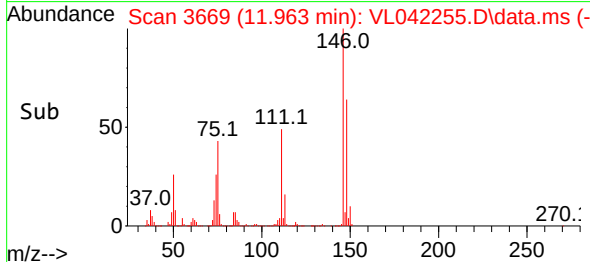
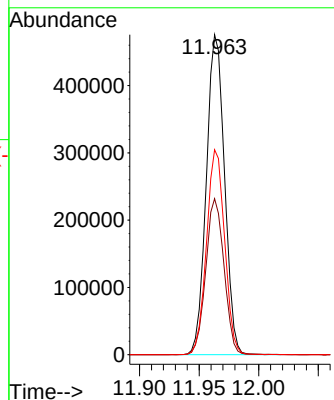
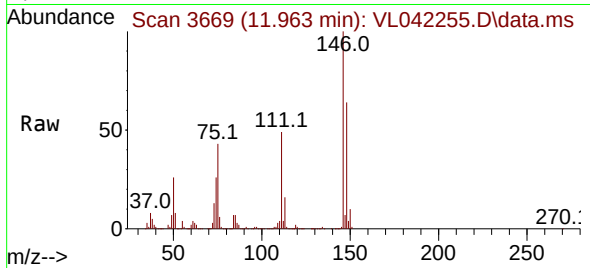




#77
 1,2-Dichlorobenzene
 Concen: 11.883 ppbv
 RT: 11.963 min Scan# 3669
 Delta R.T. 0.019 min
 Lab File: VL042255.D
 Acq: 08 Apr 2025 10:05

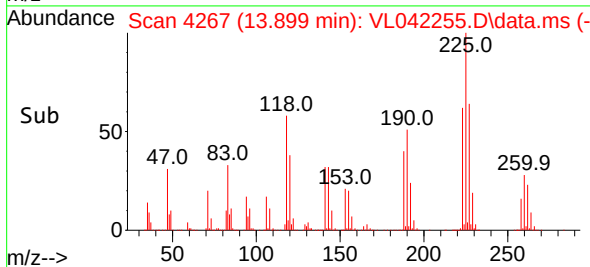
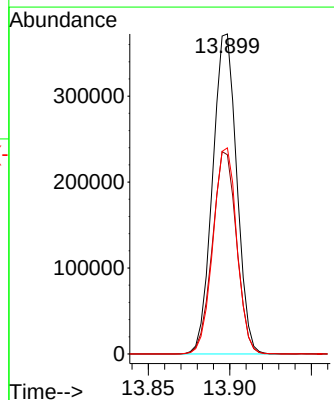
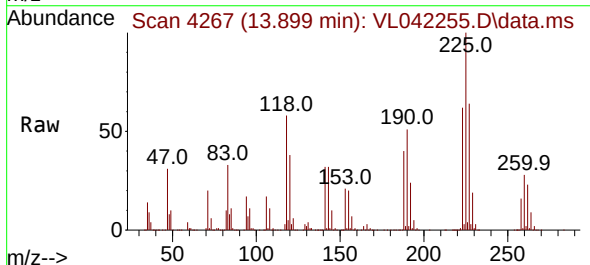
Instrument :
 MSVOA_1
 ClientSampleId :
 VL0408ABS01

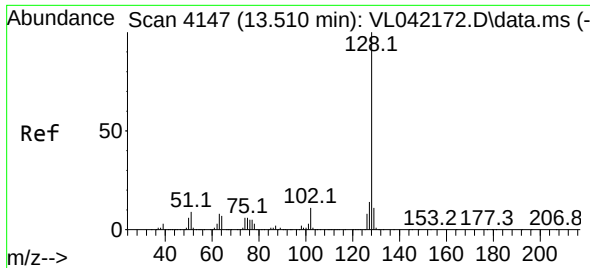
Tgt Ion:146 Resp: 505323
 Ion Ratio Lower Upper
 146 100
 111 48.9 24.8 74.3
 148 63.8 31.6 94.8



#78
 Hexachloro-1,3-Butadiene
 Concen: 8.845 ppbv
 RT: 13.899 min Scan# 4267
 Delta R.T. 0.019 min
 Lab File: VL042255.D
 Acq: 08 Apr 2025 10:05

Tgt Ion:225 Resp: 382876
 Ion Ratio Lower Upper
 225 100
 223 63.4 50.6 76.0
 227 63.4 51.2 76.8

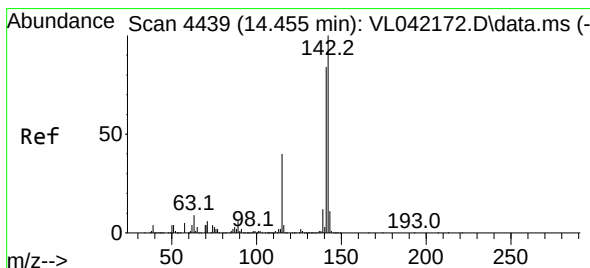
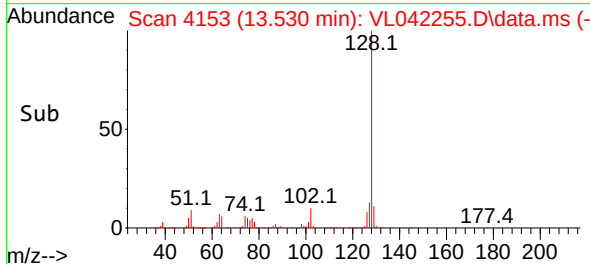
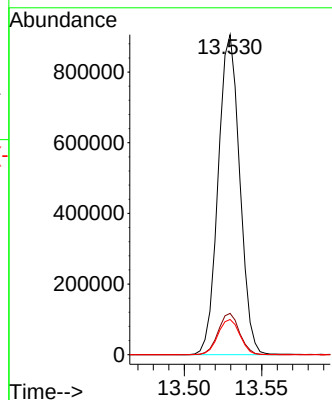
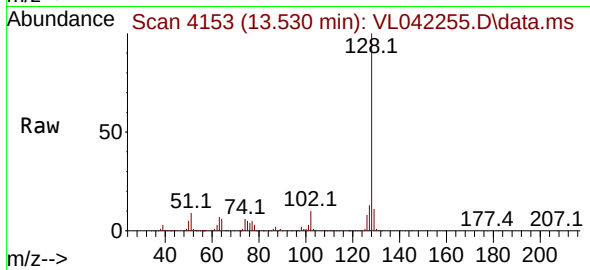




#79
Naphthalene
Concen: 10.055 ppbv
RT: 13.530 min Scan# 4147
Delta R.T. 0.019 min
Lab File: VL042255.D
Acq: 08 Apr 2025 10:05

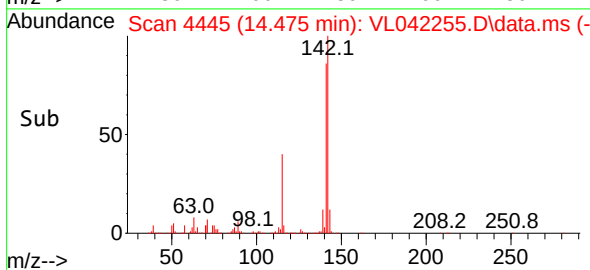
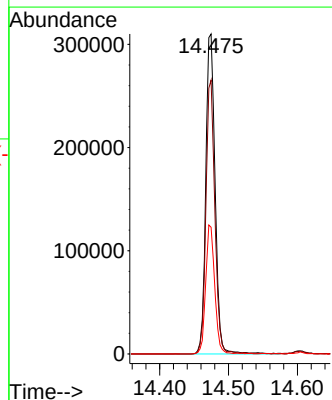
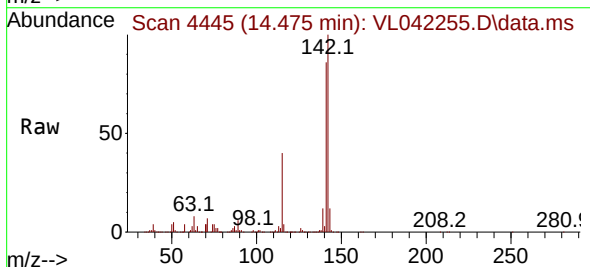
Instrument :
MSVOA_1
ClientSampleId :
VL0408ABS01

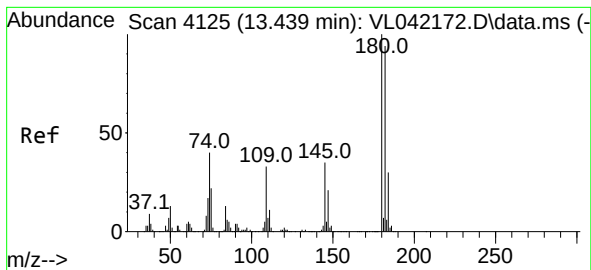
Tgt Ion:128 Resp: 875824
Ion Ratio Lower Upper
128 100
127 12.9 10.8 16.2
129 11.0 9.0 13.4



#80
Naphthalene,2-methyl-
Concen: 6.815 ppbv
RT: 14.475 min Scan# 4445
Delta R.T. 0.019 min
Lab File: VL042255.D
Acq: 08 Apr 2025 10:05

Tgt Ion:142 Resp: 291105
Ion Ratio Lower Upper
142 100
141 82.7 66.3 99.5
115 39.6 31.6 47.4





#81

1,2,4-Trichlorobenzene

Concen: 9.672 ppbv

RT: 13.455 min Scan# 41

Delta R.T. 0.016 min

Lab File: VL042255.D

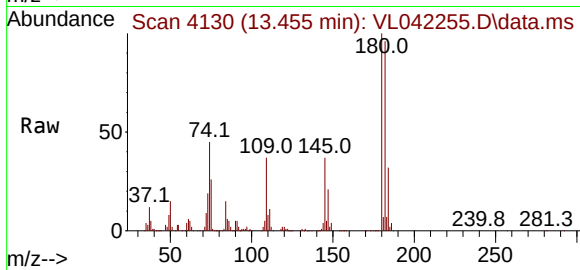
Acq: 08 Apr 2025 10:05

Instrument :

MSVOA_L

ClientSampleId :

VL0408ABS01



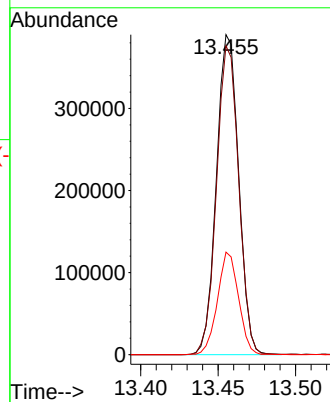
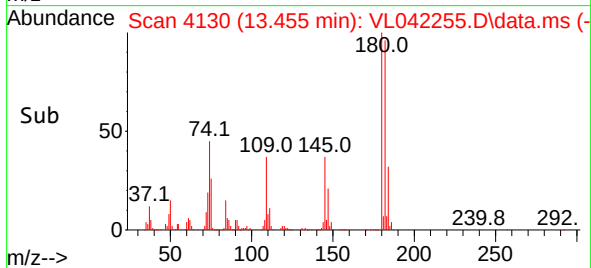
Tgt Ion:180 Resp: 388605

Ion Ratio Lower Upper

180 100

182 96.5 75.1 112.7

184 30.5 24.4 36.6



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040825\
 Data File : VL042256.D
 Acq On : 08 Apr 2025 10:55
 Operator : SY/MD
 Sample : Q1725-03
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SSSG-DUP-2-04012025

Quant Time: Apr 09 01:52:47 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri Mar 28 02:00:52 2025
 Response via : Initial Calibration

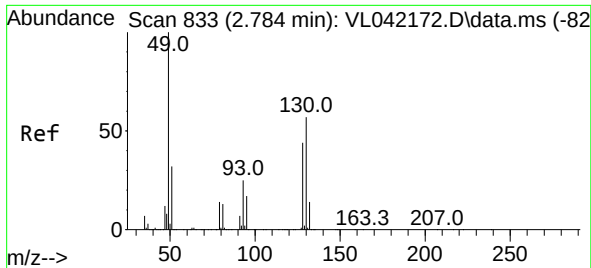
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	2.803	49	196935	10.000	ppbv	0.02
33) 1,4-Difluorobenzene	3.981	114	510940	10.000	ppbv	0.03
55) Chlorobenzene-d5	8.904	117	446395	10.000	ppbv	0.03
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.393	95	365114	9.960	ppbv	0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.600%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.505	85	10848	0.373	ppbv	92
3) Chlorodifluoromethane	1.482	51	12055	0.406	ppbv	93
4) Chloromethane	1.537	50	4839	0.407	ppbv #	81
9) Propene	1.894	41	198833	14.604	ppbv	87
11) Trichlorofluoromethane	1.887	101	5679	0.201	ppbv	97
12) 1,1,2-Trichlorotrifluo...	2.152	101	1514	0.065	ppbv	86
13) Ethanol	1.894	45	1694950	1316.893	ppbv #	31
15) Acetone	1.842	43	1059776	38.478	ppbv	100
16) 1,3-Butadiene	1.609	39	8145	0.606	ppbv #	31
17) tert-Butyl alcohol	2.055	59	6118	0.178	ppbv	97
19) Isopropyl Alcohol	1.894	45	1694950	109.070	ppbv #	32
20) Methylene Chloride	2.072	84	6489	0.633	ppbv #	74
21) Allyl Chloride	1.971	41	3955	0.204	ppbv #	21
23) Vinyl Acetate	2.486	43	7084	0.594	ppbv #	63
25) Ethyl Acetate	2.845	43	8388	0.117	ppbv #	88
26) Hexane	2.839	57	7856	0.285	ppbv #	37
29) Chloroform	2.861	83	15580	0.386	ppbv	96
34) 2-Butanone	2.573	43	16376	0.442	ppbv	99
35) Carbon Tetrachloride	3.780	117	1520	0.038	ppbv	91
36) Benzene	3.680	78	8061	0.159	ppbv	95
39) 1,2-Dichloropropane	3.981	63	131794	7.144	ppbv #	22
51) 2-Hexanone	7.480	43	2024	0.042	ppbv #	28
53) Toluene	6.962	91	42966	0.716	ppbv	96
57) Chlorobenzene	8.940	112	1324	0.031	ppbv #	55
58) Ethyl Benzene	9.377	91	106361	1.341	ppbv	96
59) m/p-Xylene	9.551	91	400289	6.322	ppbv	98
60) o-Xylene	9.985	91	78832	1.242	ppbv	99
61) Styrene	9.888	104	11084	0.353	ppbv	94
72) 4-Ethyltoluene	11.141	105	8715	0.110	ppbv #	55
73) 1,3,5-Trimethylbenzene	11.218	105	8928	0.129	ppbv	86
74) 1,2,4-Trimethylbenzene	11.552	105	28863	0.363	ppbv #	65
80) Naphthalene,2-methyl-	14.481	142	1713	0.040	ppbv	96

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

Quant Time: Apr 09 01:52:47 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Mar 28 02:00:52 2025
Response via : Initial Calibration

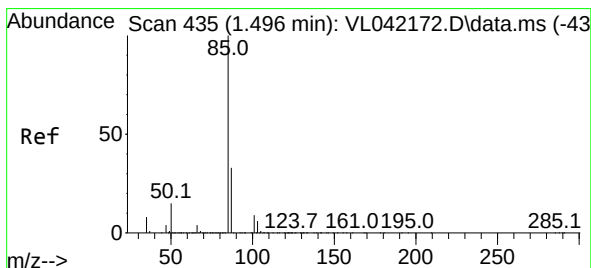
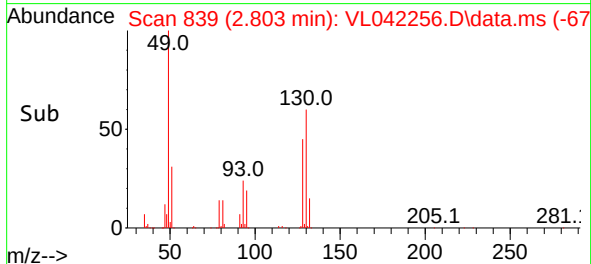
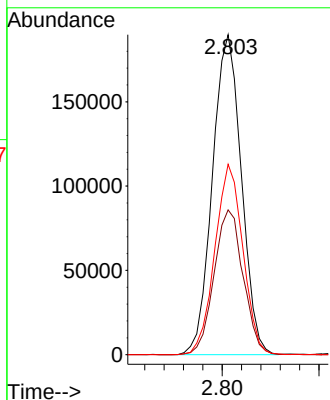
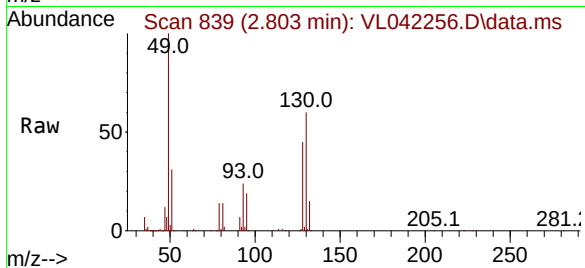




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 2.803 min Scan# 81
 Delta R.T. 0.019 min
 Lab File: VL042256.D
 Acq: 08 Apr 2025 10:55

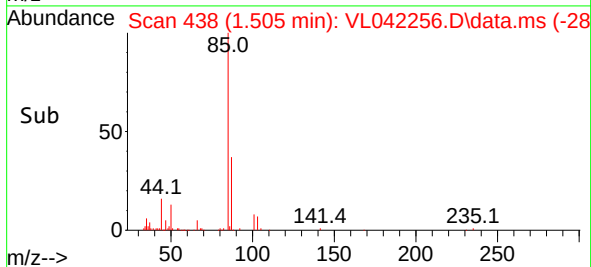
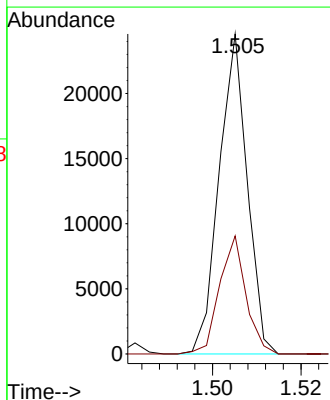
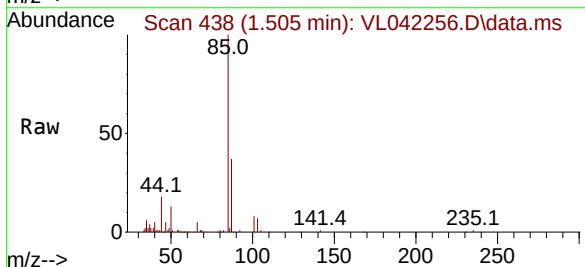
Instrument :
 MSVOA_L
 ClientSampleId :
 SSSG-DUP-2-04012025

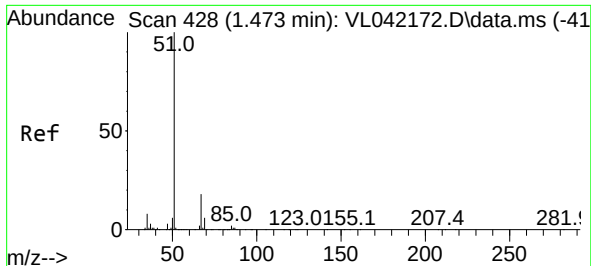
Tgt Ion: 49 Resp: 196935
 Ion Ratio Lower Upper
 49 100
 128 45.6 22.9 68.5
 130 57.9 28.8 86.4



#2
 Dichlorodifluoromethane
 Concen: 0.373 ppbv
 RT: 1.505 min Scan# 438
 Delta R.T. 0.009 min
 Lab File: VL042256.D
 Acq: 08 Apr 2025 10:55

Tgt Ion: 85 Resp: 10848
 Ion Ratio Lower Upper
 85 100
 87 36.9 26.1 39.1

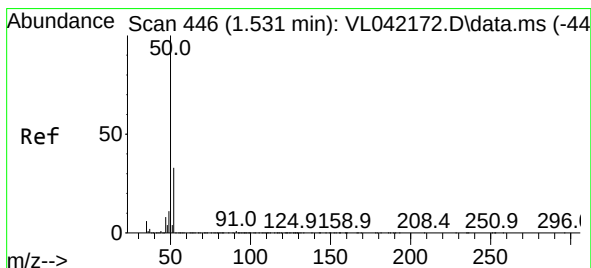
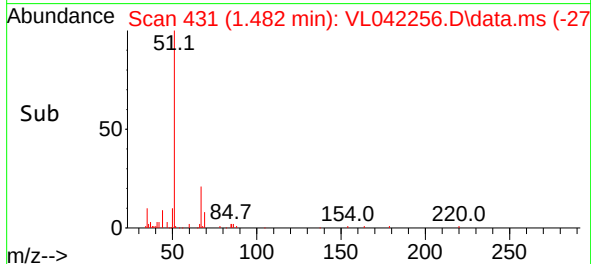
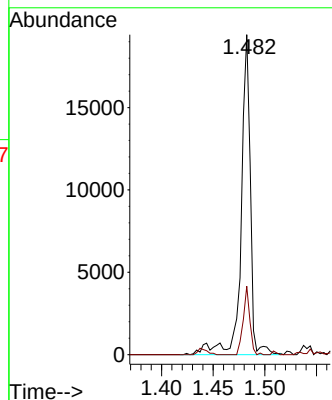
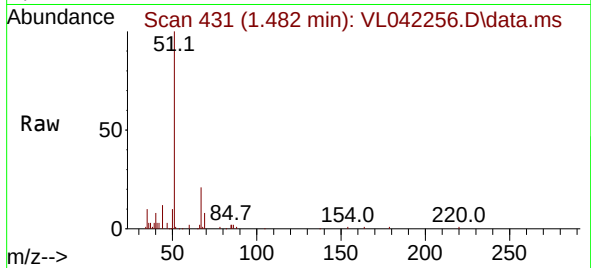




#3
Chlorodifluoromethane
Concen: 0.406 ppbv
RT: 1.482 min Scan# 41
Delta R.T. 0.009 min
Lab File: VL042256.D
Acq: 08 Apr 2025 10:55

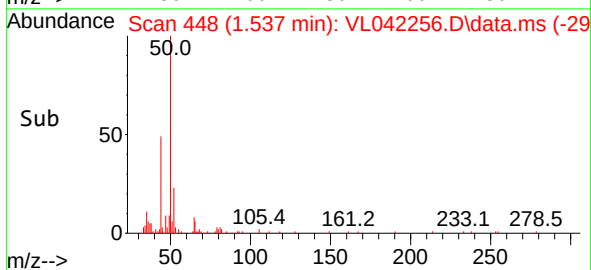
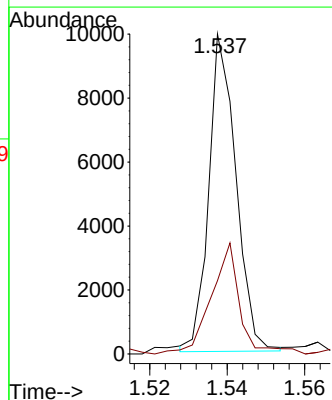
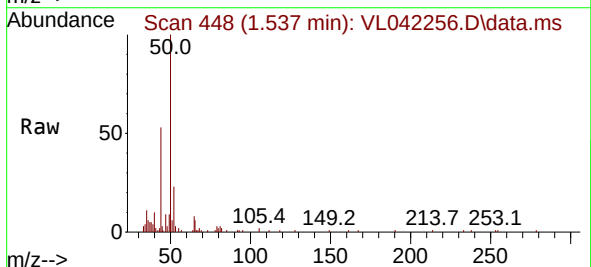
Instrument :
MSVOA_L
ClientSampleId :
SSSG-DUP-2-04012025

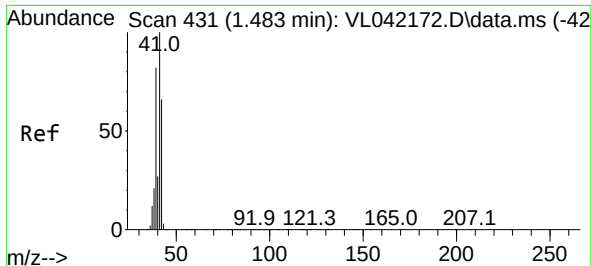
Tgt Ion: 51 Resp: 12055
Ion Ratio Lower Upper
51 100
67 15.8 15.0 22.6



#4
Chloromethane
Concen: 0.407 ppbv
RT: 1.537 min Scan# 448
Delta R.T. 0.006 min
Lab File: VL042256.D
Acq: 08 Apr 2025 10:55

Tgt Ion: 50 Resp: 4839
Ion Ratio Lower Upper
50 100
52 22.1 26.1 39.1#





#9

Propene

Concen: 14.604 ppbv

RT: 1.894 min Scan# 51

Delta R.T. 0.411 min

Lab File: VL042256.D

Acq: 08 Apr 2025 10:55

Instrument :

MSVOA_L

ClientSampleId :

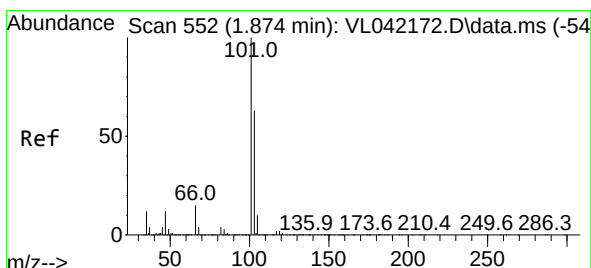
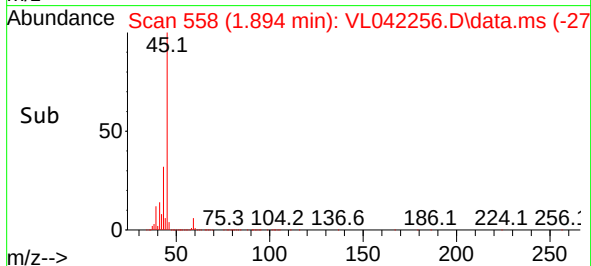
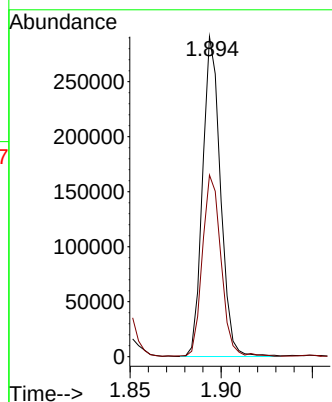
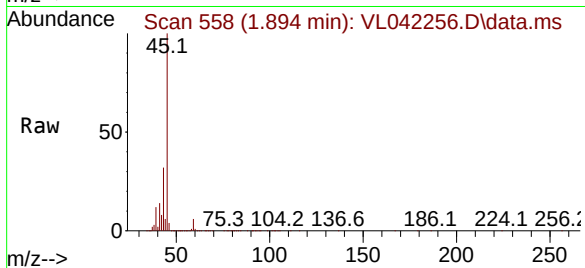
SSSG-DUP-2-04012025

Tgt Ion: 41 Resp: 198833

Ion Ratio Lower Upper

41 100

42 58.8 55.4 83.2



#11

Trichlorofluoromethane

Concen: 0.201 ppbv

RT: 1.887 min Scan# 556

Delta R.T. 0.013 min

Lab File: VL042256.D

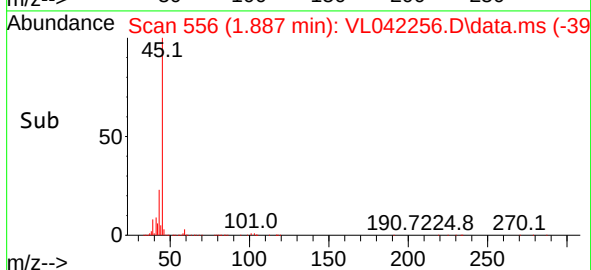
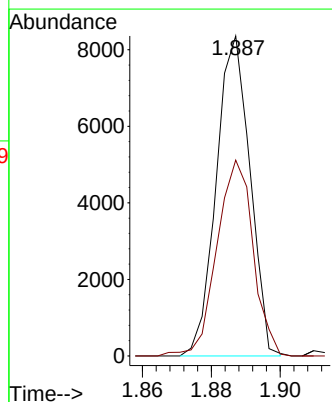
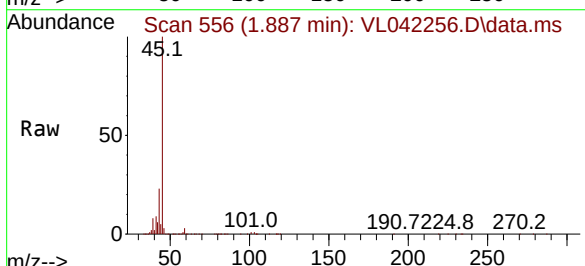
Acq: 08 Apr 2025 10:55

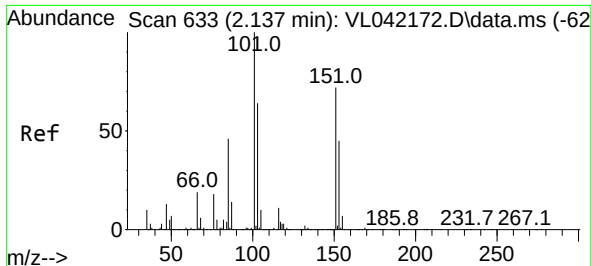
Tgt Ion:101 Resp: 5679

Ion Ratio Lower Upper

101 100

103 60.6 50.2 75.2

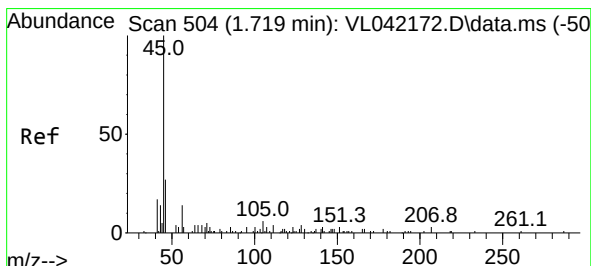
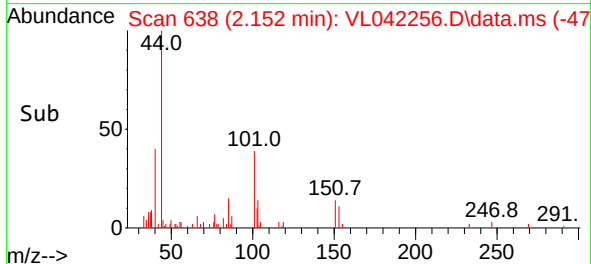
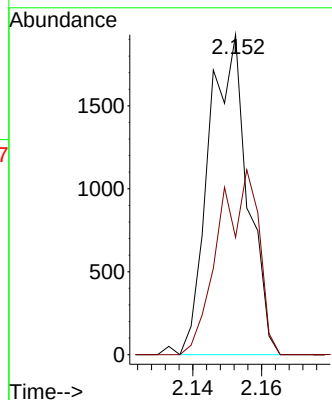
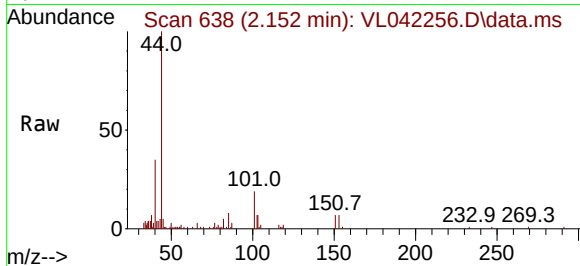




#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.065 ppbv
RT: 2.152 min Scan# 61
Delta R.T. 0.016 min
Lab File: VL042256.D
Acq: 08 Apr 2025 10:55

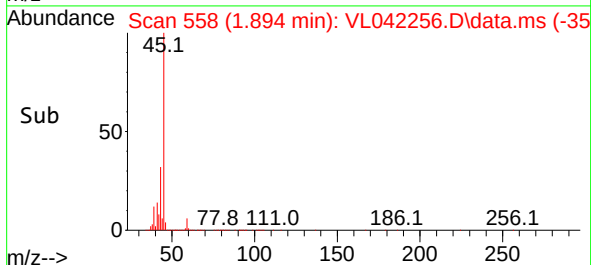
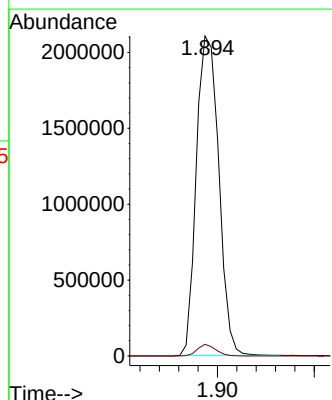
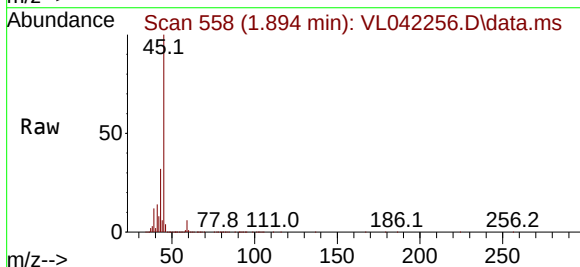
Instrument :
MSVOA_L
ClientSampleId :
SSSG-DUP-2-04012025

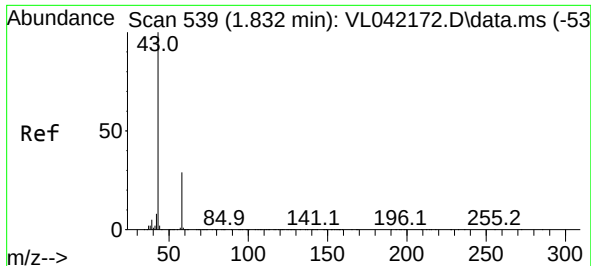
Tgt Ion:101 Resp: 1514
Ion Ratio Lower Upper
101 100
151 59.4 57.1 85.7



#13
Ethanol
Concen: 1316.893 ppbv
RT: 1.894 min Scan# 558
Delta R.T. 0.174 min
Lab File: VL042256.D
Acq: 08 Apr 2025 10:55

Tgt Ion: 45 Resp: 1694950
Ion Ratio Lower Upper
45 100
46 3.0 20.2 80.8#





#15

Acetone

Concen: 38.478 ppbv

RT: 1.842 min Scan# 54

Delta R.T. 0.009 min

Lab File: VL042256.D

Acq: 08 Apr 2025 10:55

Instrument :

MSVOA_L

ClientSampleId :

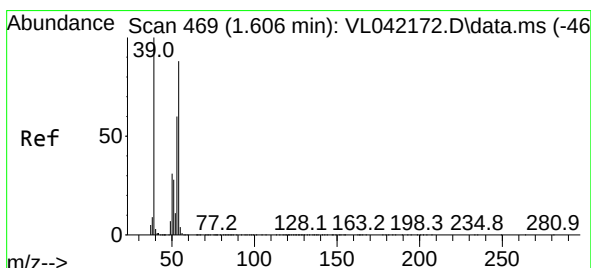
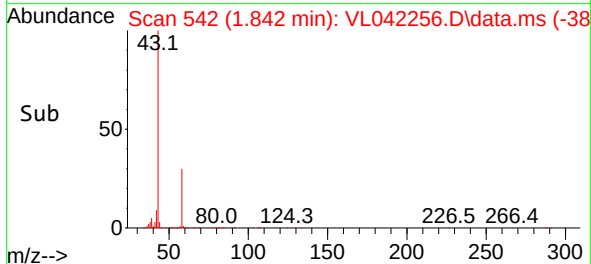
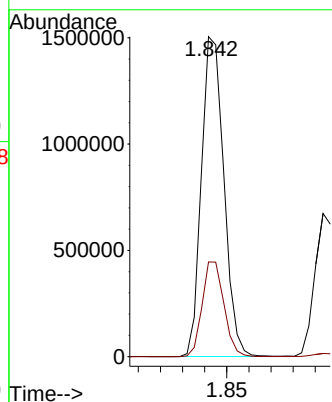
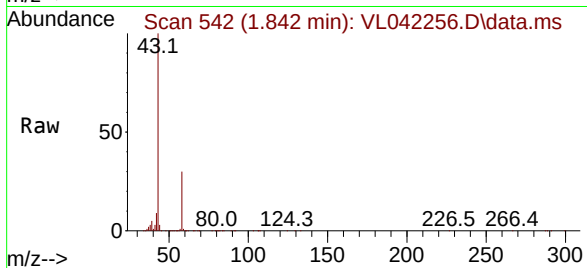
SSSG-DUP-2-04012025

Tgt Ion: 43 Resp: 1059776

Ion Ratio Lower Upper

43 100

58 28.8 23.2 34.8



#16

1,3-Butadiene

Concen: 0.606 ppbv

RT: 1.609 min Scan# 470

Delta R.T. 0.003 min

Lab File: VL042256.D

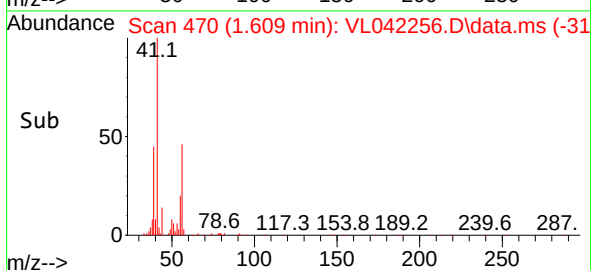
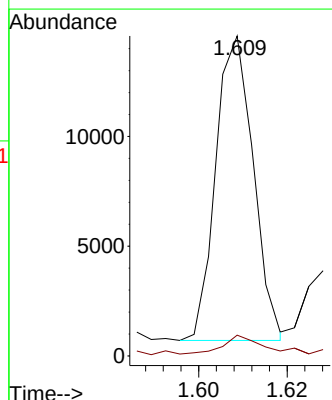
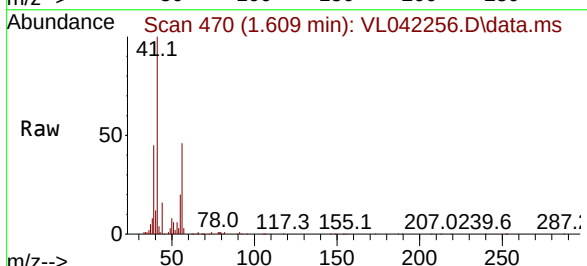
Acq: 08 Apr 2025 10:55

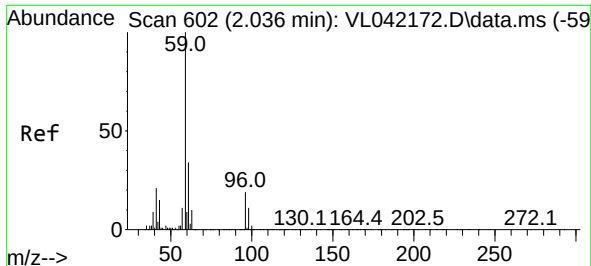
Tgt Ion: 39 Resp: 8145

Ion Ratio Lower Upper

39 100

54 16.8 60.7 91.1#





#17

tert-Butyl alcohol

Concen: 0.178 ppbv

RT: 2.055 min Scan# 602

Delta R.T. 0.019 min

Lab File: VL042256.D

Acq: 08 Apr 2025 10:55

Instrument :

MSVOA_L

ClientSampleId :

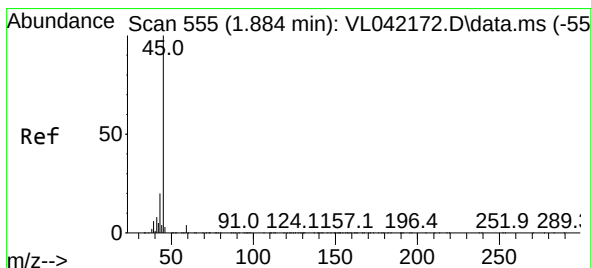
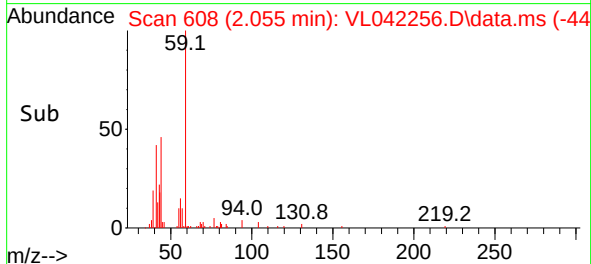
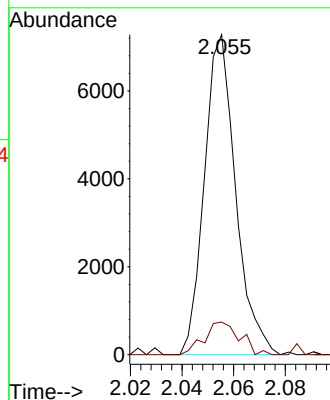
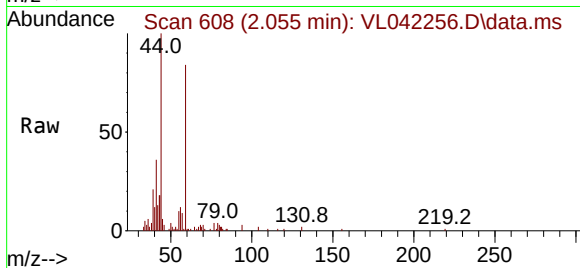
SSSG-DUP-2-04012025

Tgt Ion: 59 Resp: 6118

Ion Ratio Lower Upper

59 100

57 12.4 8.9 13.3



#19

Isopropyl Alcohol

Concen: 109.070 ppbv

RT: 1.894 min Scan# 558

Delta R.T. 0.009 min

Lab File: VL042256.D

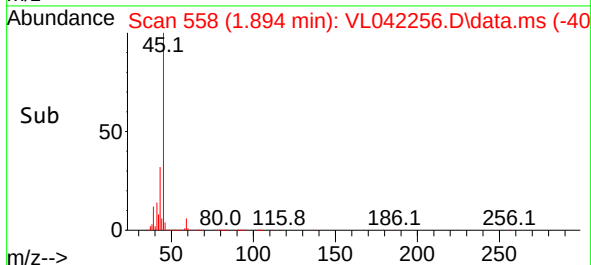
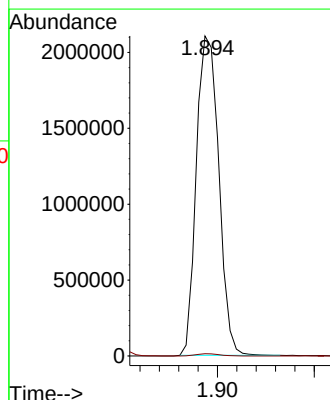
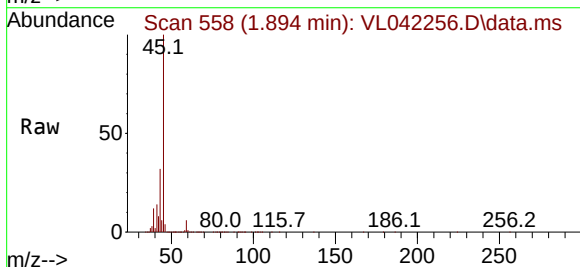
Acq: 08 Apr 2025 10:55

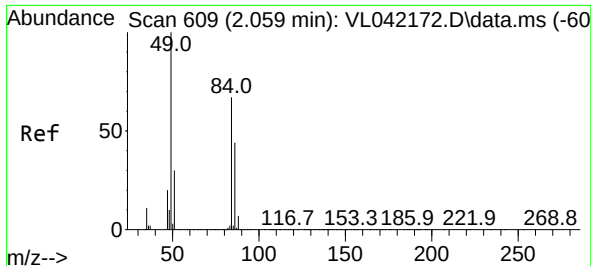
Tgt Ion: 45 Resp: 1694950

Ion Ratio Lower Upper

45 100

58 0.8 36.9 55.3#

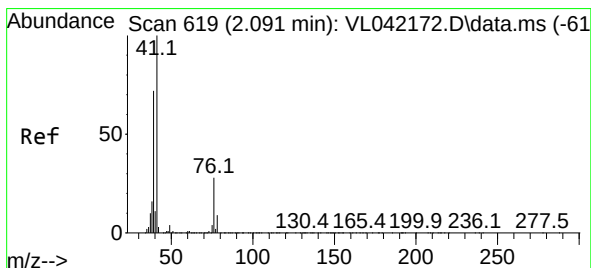
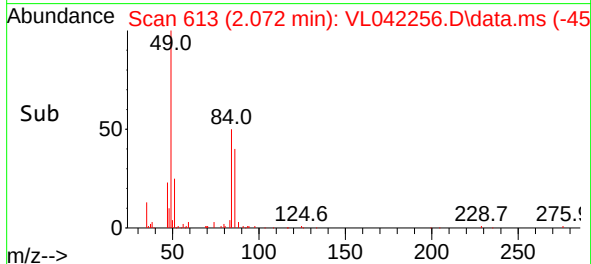
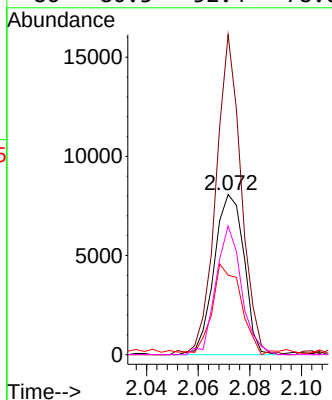
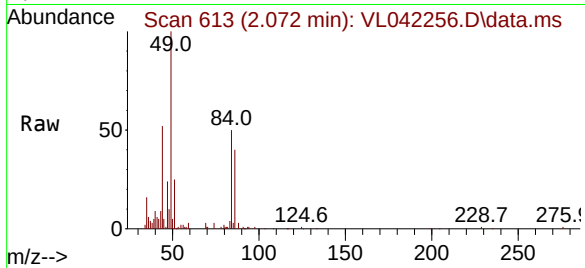




#20
Methylene Chloride
Concen: 0.633 ppbv
RT: 2.072 min Scan# 613
Delta R.T. 0.013 min
Lab File: VL042256.D
Acq: 08 Apr 2025 10:55

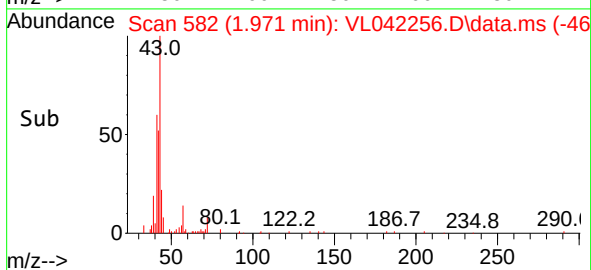
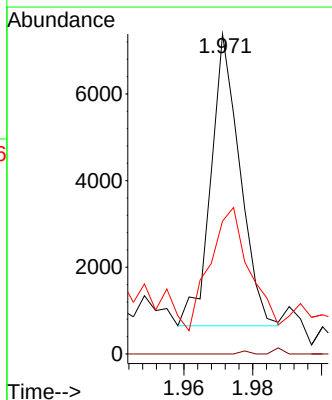
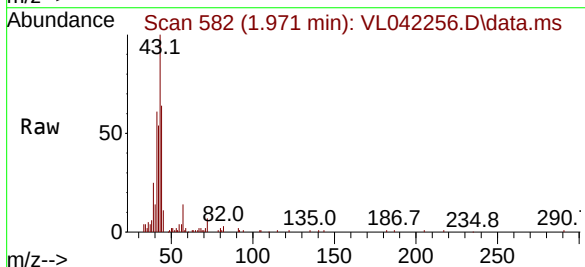
Instrument :
MSVOA_L
ClientSampleId :
SSSG-DUP-2-04012025

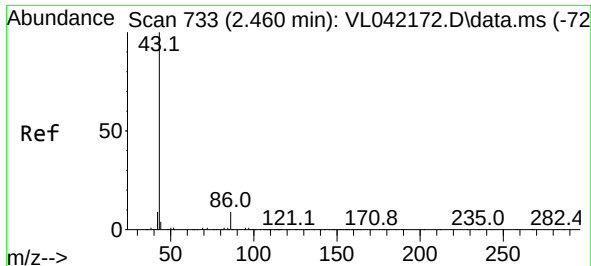
Tgt Ion:	84	Resp:	6489
Ion	Ratio	Lower	Upper
84	100		
49	197.4	120.2	180.4#
51	48.0	37.4	56.0
86	80.3	52.4	78.6#



#21
Allyl Chloride
Concen: 0.204 ppbv
RT: 1.971 min Scan# 582
Delta R.T. -0.120 min
Lab File: VL042256.D
Acq: 08 Apr 2025 10:55

Tgt Ion:	41	Resp:	3955
Ion	Ratio	Lower	Upper
41	100		
76	0.8	24.1	36.1#
39	0.0	61.1	91.7#

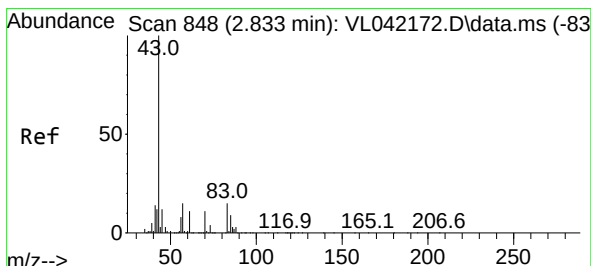
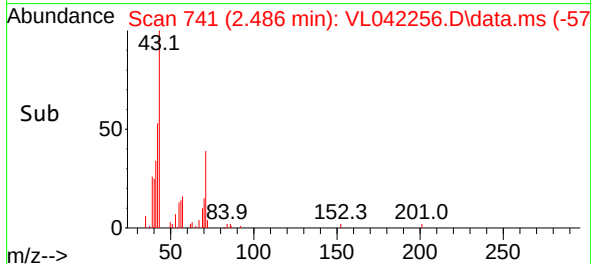
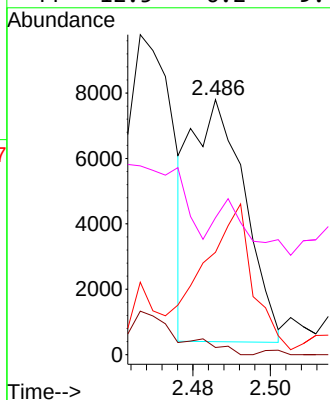
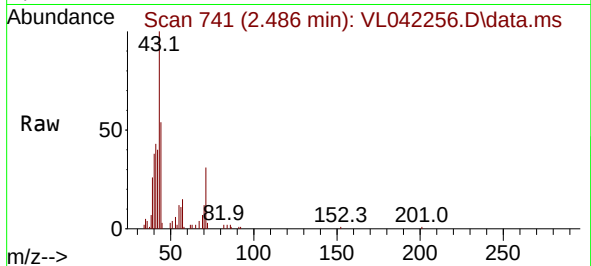




#23
 Vinyl Acetate
 Concen: 0.594 ppbv
 RT: 2.486 min Scan# 741
 Delta R.T. 0.026 min
 Lab File: VL042256.D
 Acq: 08 Apr 2025 10:55

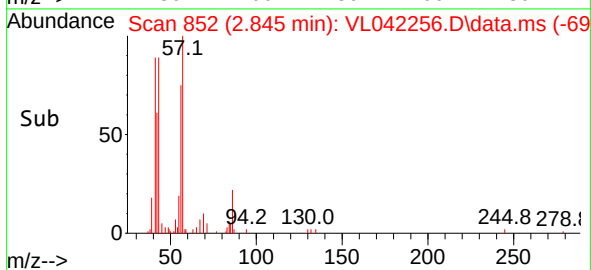
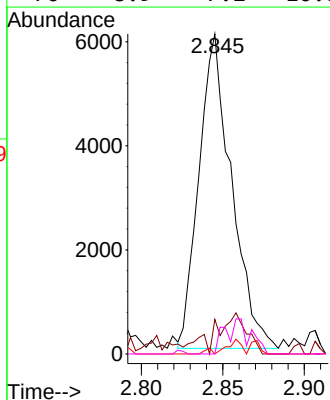
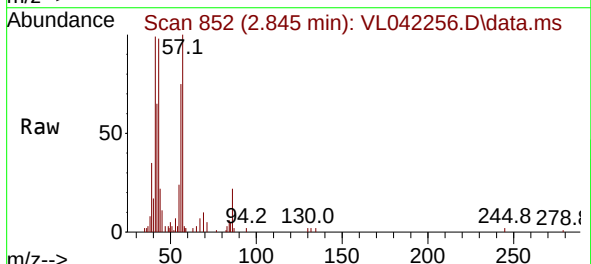
Instrument :
 MSVOA_L
 ClientSampleId :
 SSSG-DUP-2-04012025

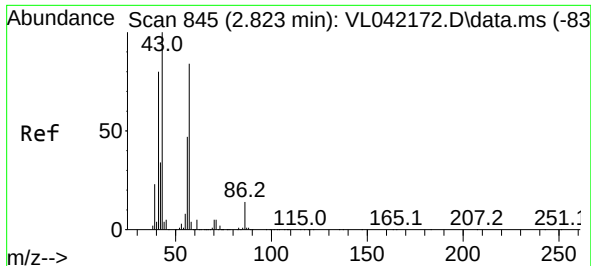
Tgt Ion: 43	Resp: 7084
Ion Ratio	Lower Upper
43 100	
86 1.2	5.5 8.3#
42 36.2	8.6 13.0#
44 12.5	6.2 9.4#



#25
 Ethyl Acetate
 Concen: 0.117 ppbv
 RT: 2.845 min Scan# 852
 Delta R.T. 0.013 min
 Lab File: VL042256.D
 Acq: 08 Apr 2025 10:55

Tgt Ion: 43	Resp: 8388
Ion Ratio	Lower Upper
43 100	
45 16.9	8.2 12.2#
61 3.5	7.3 10.9#
70 8.9	7.2 10.8

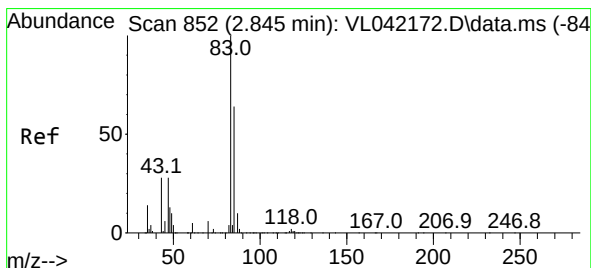
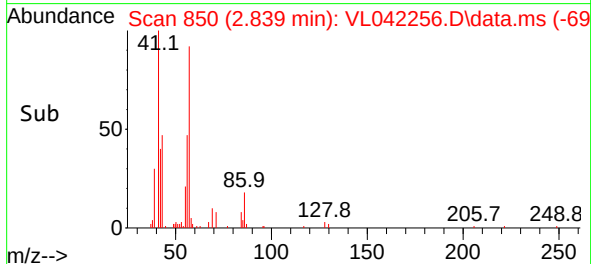
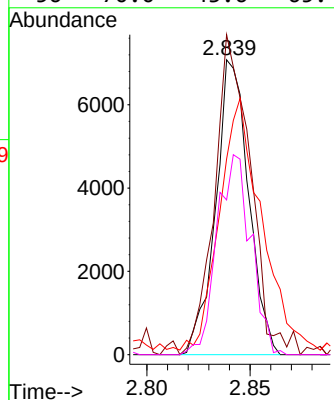
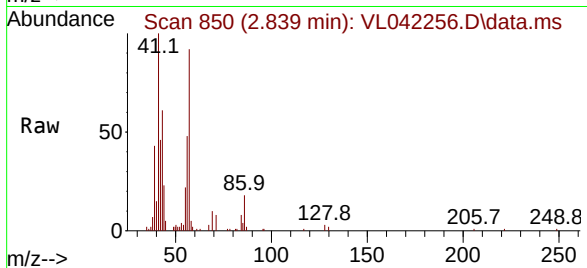




#26
Hexane
Concen: 0.285 ppbv
RT: 2.839 min Scan# 81
Delta R.T. 0.016 min
Lab File: VL042256.D
Acq: 08 Apr 2025 10:55

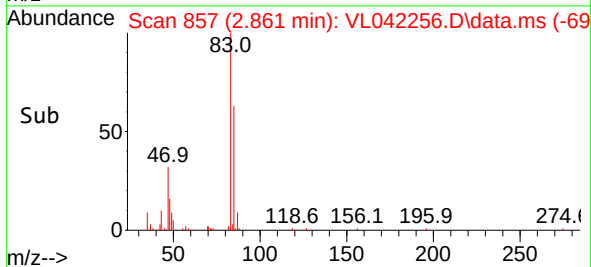
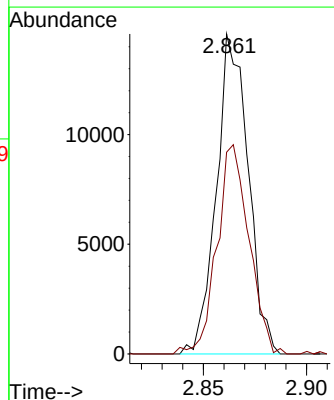
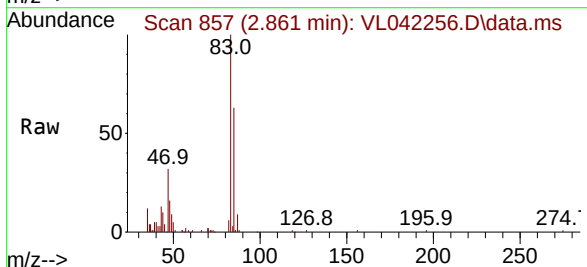
Instrument :
MSVOA_L
ClientSampleId :
SSSG-DUP-2-04012025

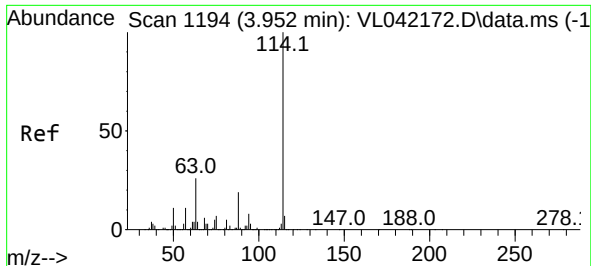
Tgt Ion: 57 Resp: 7856
Ion Ratio Lower Upper
57 100
41 121.0 76.6 114.8#
43 107.6 207.8 311.8#
56 70.0 43.6 65.4#



#29
Chloroform
Concen: 0.386 ppbv
RT: 2.861 min Scan# 857
Delta R.T. 0.016 min
Lab File: VL042256.D
Acq: 08 Apr 2025 10:55

Tgt Ion: 83 Resp: 15580
Ion Ratio Lower Upper
83 100
85 61.4 51.4 77.2





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.981 min Scan# 1194

Delta R.T. 0.029 min

Lab File: VL042256.D

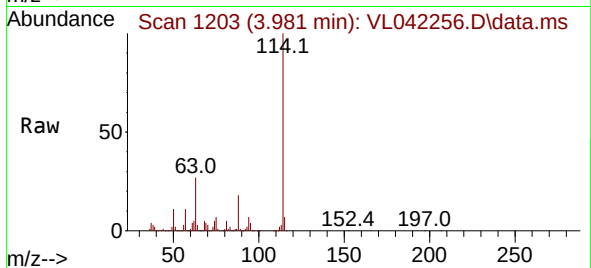
Acq: 08 Apr 2025 10:55

Instrument :

MSVOA_L

ClientSampleId :

SSSG-DUP-2-04012025



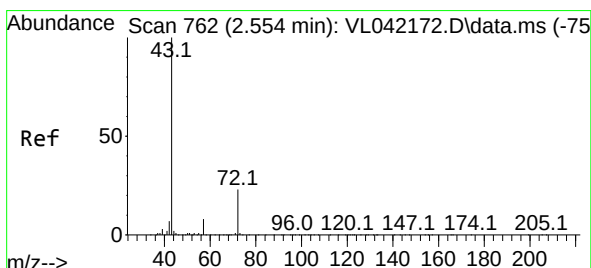
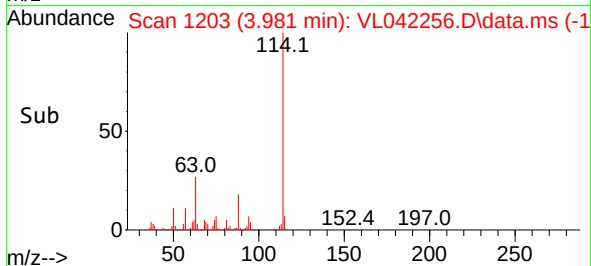
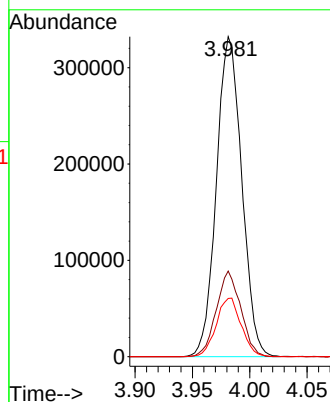
Tgt Ion:114 Resp: 510940

Ion Ratio Lower Upper

114 100

63 25.8 20.7 31.1

88 18.1 15.0 22.4



#34

2-Butanone

Concen: 0.442 ppbv

RT: 2.573 min Scan# 768

Delta R.T. 0.019 min

Lab File: VL042256.D

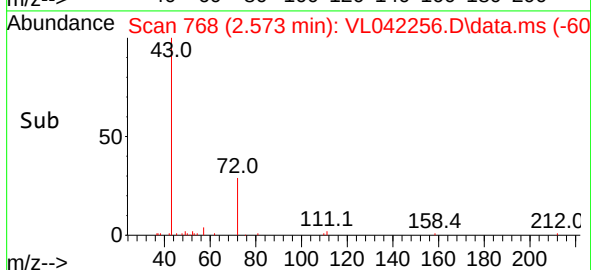
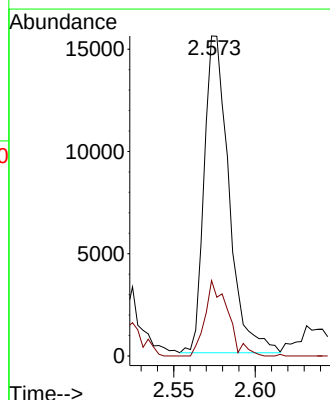
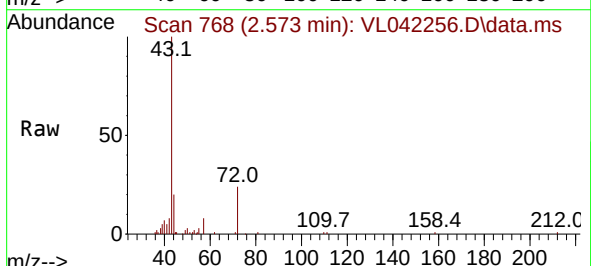
Acq: 08 Apr 2025 10:55

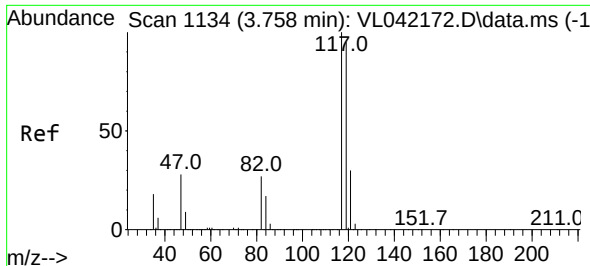
Tgt Ion: 43 Resp: 16376

Ion Ratio Lower Upper

43 100

72 22.0 18.2 27.2

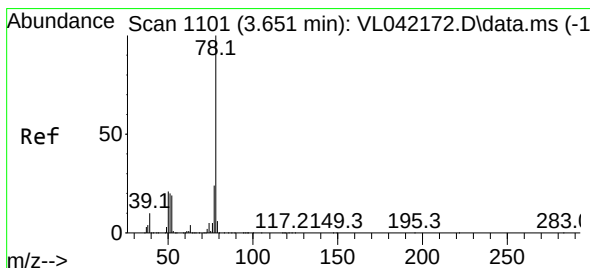
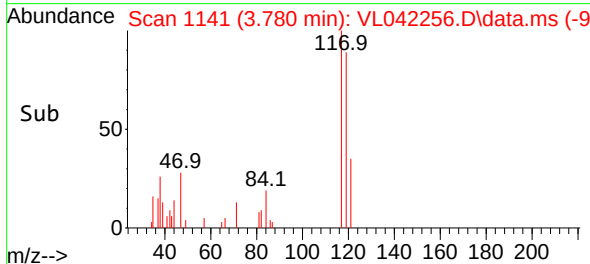
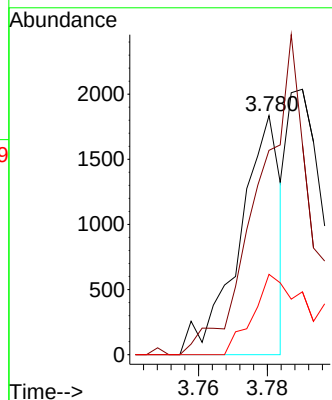
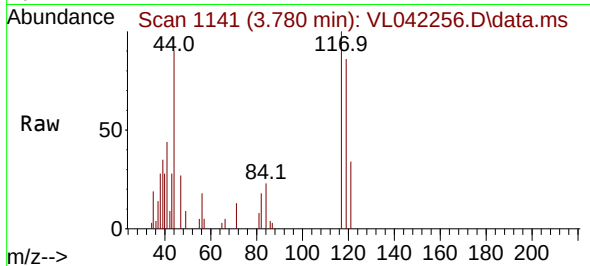




#35
Carbon Tetrachloride
Concen: 0.038 ppbv
RT: 3.780 min Scan# 1110
Delta R.T. 0.022 min
Lab File: VL042256.D
Acq: 08 Apr 2025 10:55

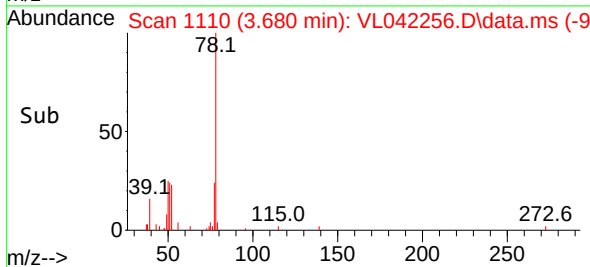
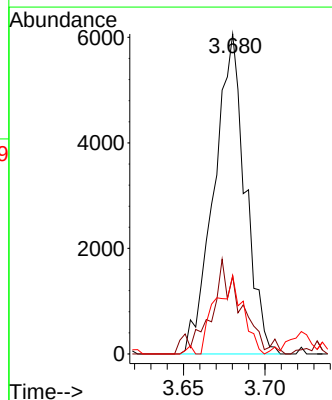
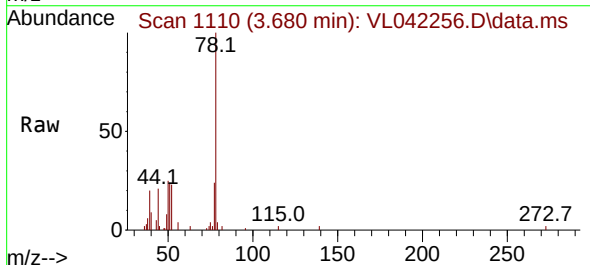
Instrument :
MSVOA_L
ClientSampleId :
SSSG-DUP-2-04012025

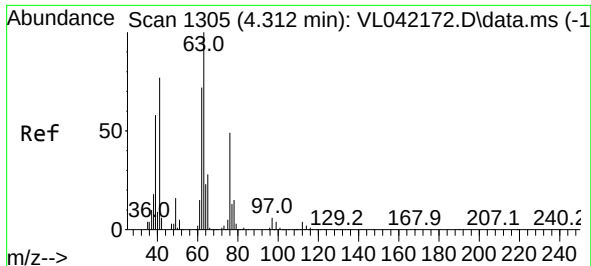
Tgt Ion:117 Resp: 1520
Ion Ratio Lower Upper
117 100
119 85.5 76.2 114.2
121 33.6 24.2 36.4



#36
Benzene
Concen: 0.159 ppbv
RT: 3.680 min Scan# 1110
Delta R.T. 0.029 min
Lab File: VL042256.D
Acq: 08 Apr 2025 10:55

Tgt Ion: 78 Resp: 8061
Ion Ratio Lower Upper
78 100
77 23.0 19.1 28.7
50 24.5 16.6 24.8





#39

1,2-Dichloropropane

Concen: 7.144 ppbv

RT: 3.981 min Scan# 11

Delta R.T. -0.330 min

Lab File: VL042256.D

Acq: 08 Apr 2025 10:55

Instrument :

MSVOA_L

ClientSampleId :

SSSG-DUP-2-04012025

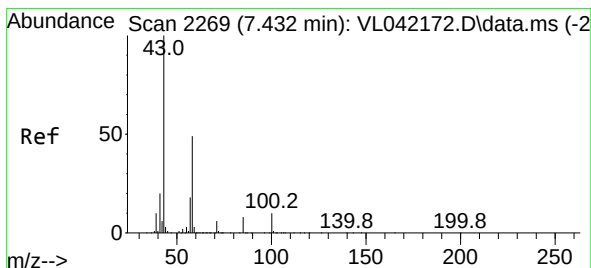
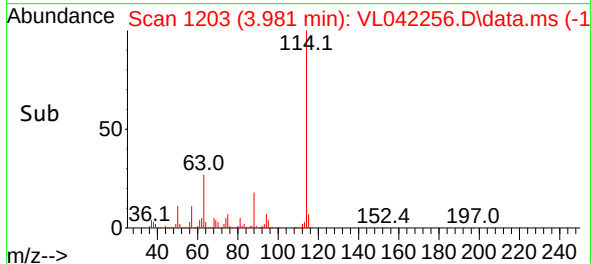
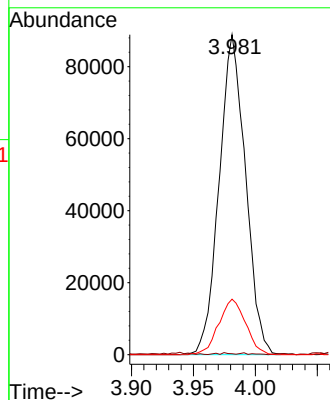
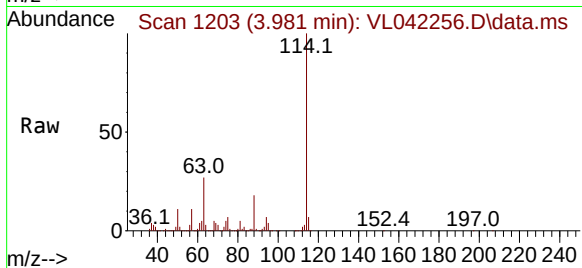
Tgt Ion: 63 Resp: 131794

Ion Ratio Lower Upper

63 100

41 0.0 61.7 92.5#

62 17.4 57.6 86.4#



#51

2-Hexanone

Concen: 0.042 ppbv

RT: 7.480 min Scan# 2284

Delta R.T. 0.048 min

Lab File: VL042256.D

Acq: 08 Apr 2025 10:55

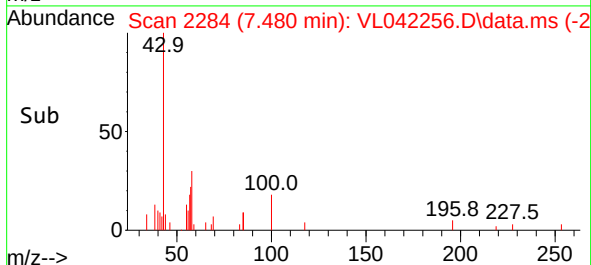
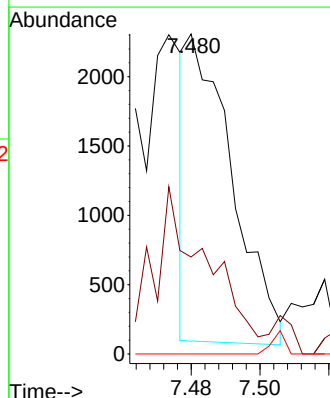
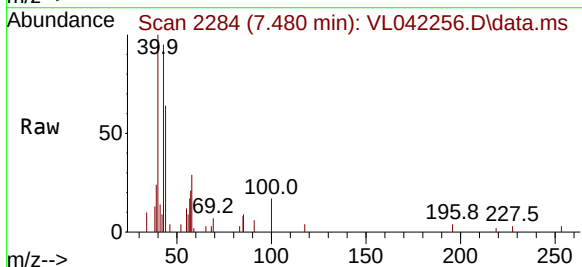
Tgt Ion: 43 Resp: 2024

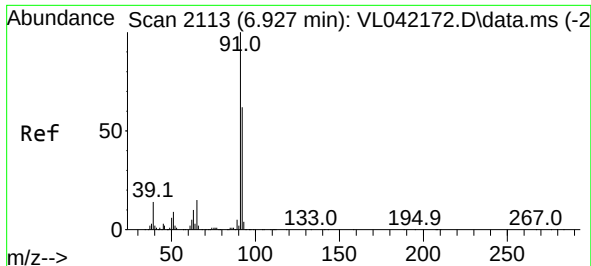
Ion Ratio Lower Upper

43 100

58 0.0 39.7 59.5#

98 0.0 0.1 0.1#

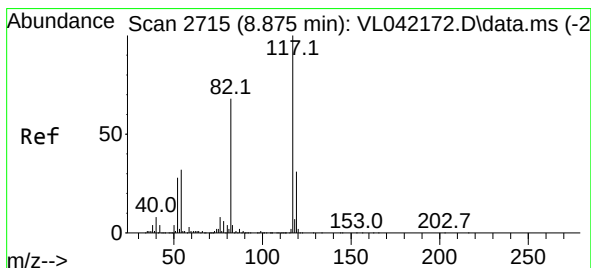
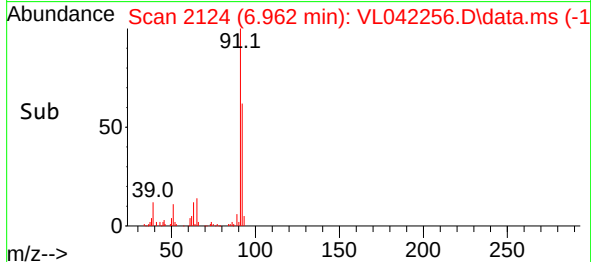
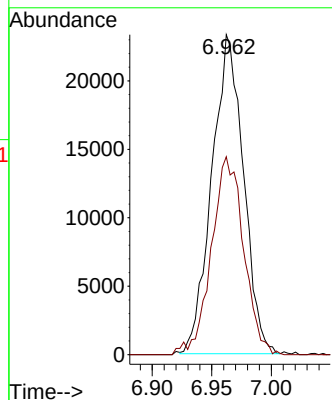
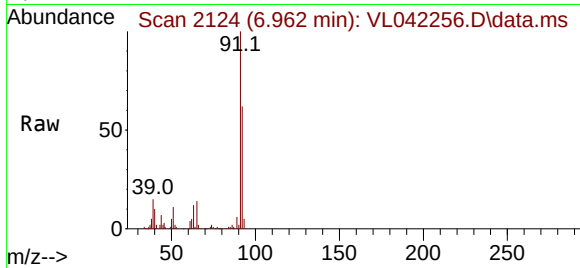




#53
Toluene
Concen: 0.716 ppbv
RT: 6.962 min Scan# 2113
Delta R.T. 0.035 min
Lab File: VL042256.D
Acq: 08 Apr 2025 10:55

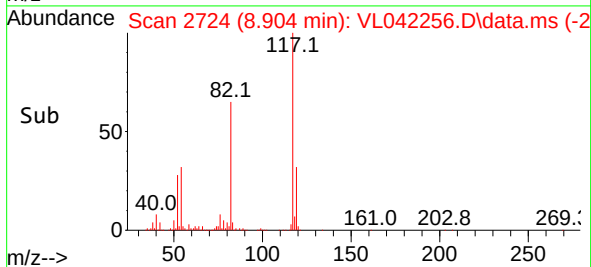
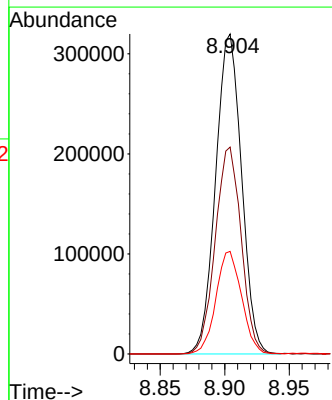
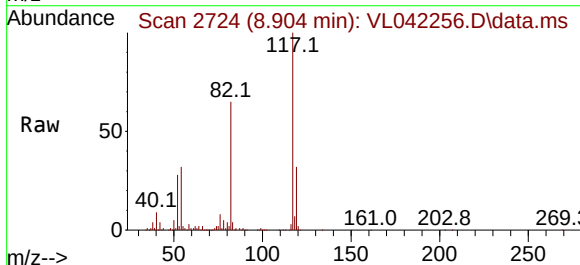
Instrument :
MSVOA_L
ClientSampleId :
SSSG-DUP-2-04012025

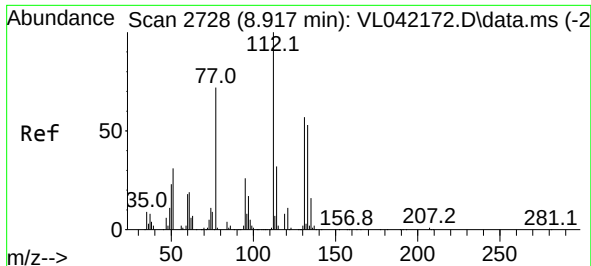
Tgt Ion: 91 Resp: 42966
Ion Ratio Lower Upper
91 100
92 63.3 48.4 72.6



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.904 min Scan# 2724
Delta R.T. 0.029 min
Lab File: VL042256.D
Acq: 08 Apr 2025 10:55

Tgt Ion: 117 Resp: 446395
Ion Ratio Lower Upper
117 100
82 64.8 55.8 83.6
119 31.7 25.5 38.3

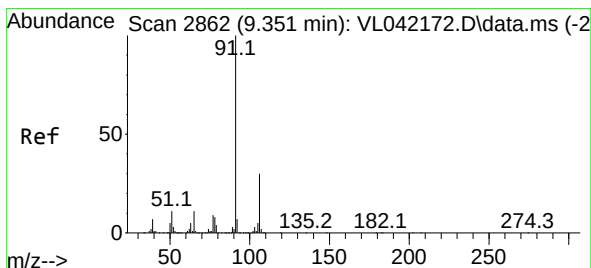
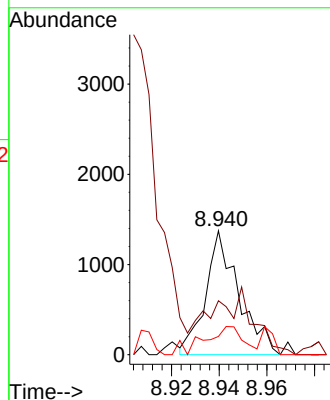
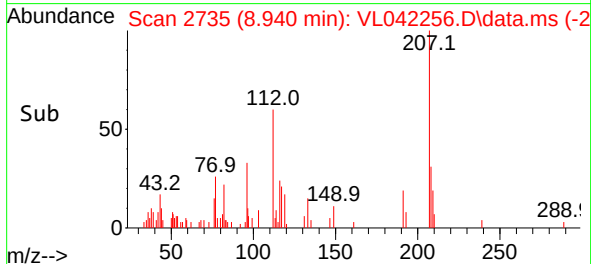
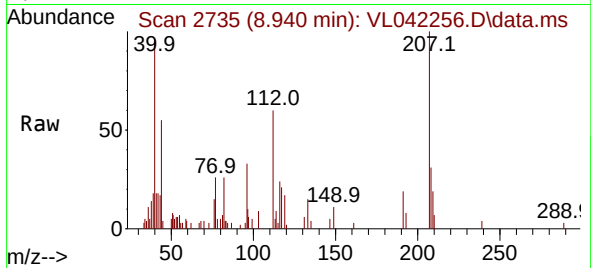




#57
Chlorobenzene
Concen: 0.031 ppbv
RT: 8.940 min Scan# 21
Delta R.T. 0.022 min
Lab File: VL042256.D
Acq: 08 Apr 2025 10:55

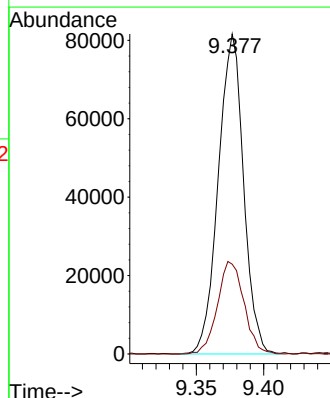
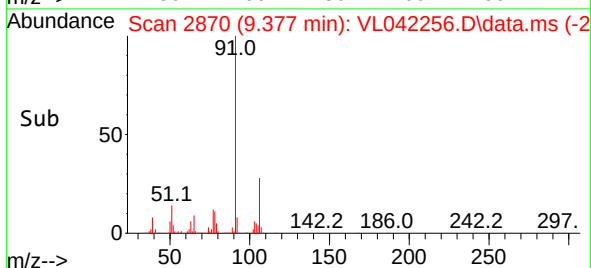
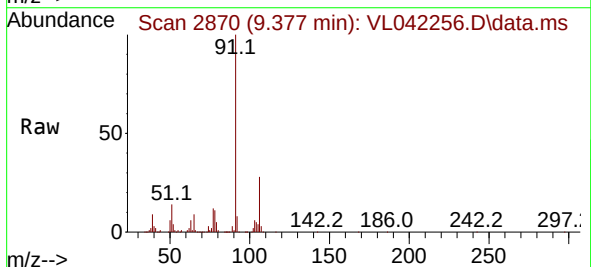
Instrument :
MSVOA_L
ClientSampleId :
SSSG-DUP-2-04012025

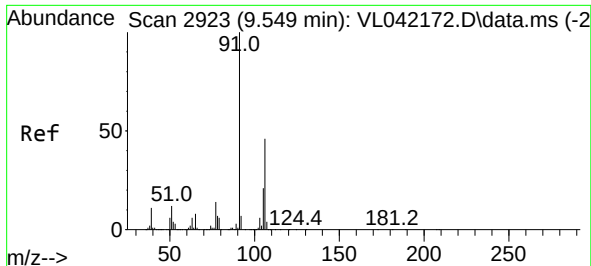
Tgt Ion:112 Resp: 1324
Ion Ratio Lower Upper
112 100
77 37.9 58.2 87.2#
114 3.2 29.1 35.5#



#58
Ethyl Benzene
Concen: 1.341 ppbv
RT: 9.377 min Scan# 2870
Delta R.T. 0.026 min
Lab File: VL042256.D
Acq: 08 Apr 2025 10:55

Tgt Ion: 91 Resp: 106361
Ion Ratio Lower Upper
91 100
106 28.0 24.2 36.2





#59

m/p-Xylene

Concen: 6.322 ppbv

RT: 9.551 min Scan# 2923

Delta R.T. 0.003 min

Lab File: VL042256.D

Acq: 08 Apr 2025 10:55

Instrument :

MSVOA_L

ClientSampleId :

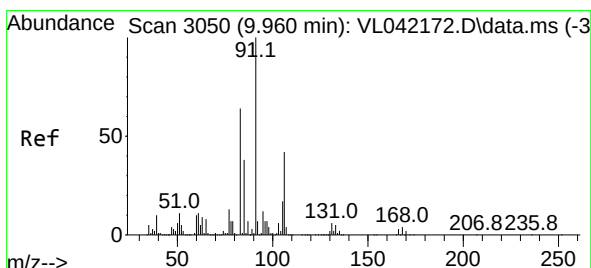
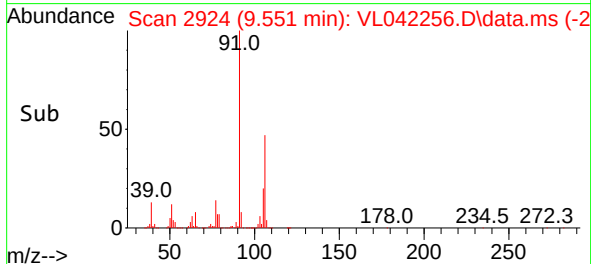
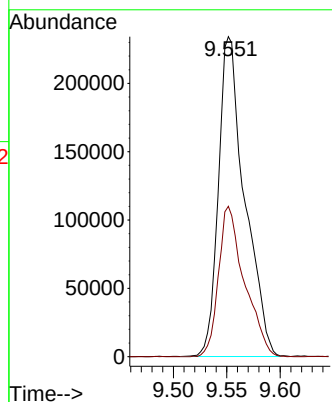
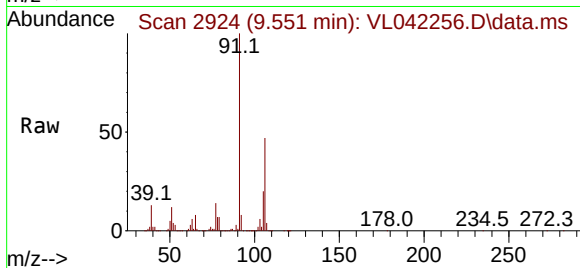
SSSG-DUP-2-04012025

Tgt Ion: 91 Resp: 400289

Ion Ratio Lower Upper

91 100

106 46.5 36.4 54.6



#60

o-Xylene

Concen: 1.242 ppbv

RT: 9.985 min Scan# 3058

Delta R.T. 0.026 min

Lab File: VL042256.D

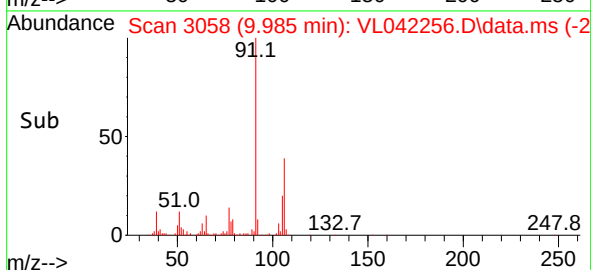
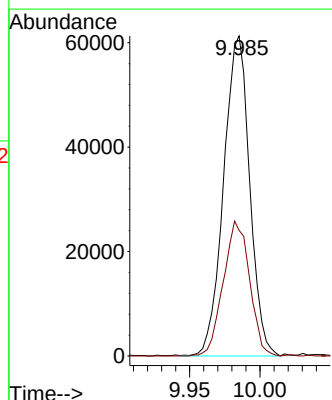
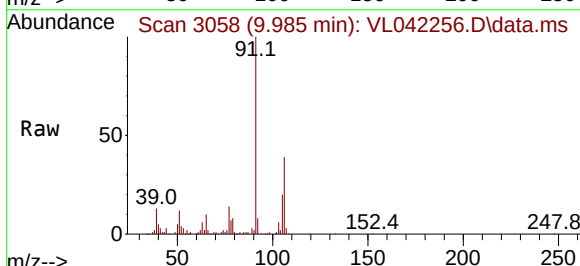
Acq: 08 Apr 2025 10:55

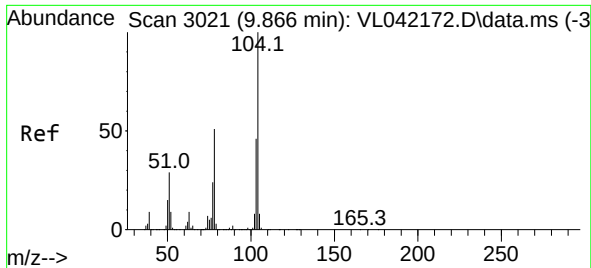
Tgt Ion: 91 Resp: 78832

Ion Ratio Lower Upper

91 100

106 42.6 20.8 62.5





#61

Styrene

Concen: 0.353 ppbv

RT: 9.888 min Scan# 3021

Delta R.T. 0.022 min

Lab File: VL042256.D

Acq: 08 Apr 2025 10:55

Instrument :

MSVOA_L

ClientSampleId :

SSSG-DUP-2-04012025

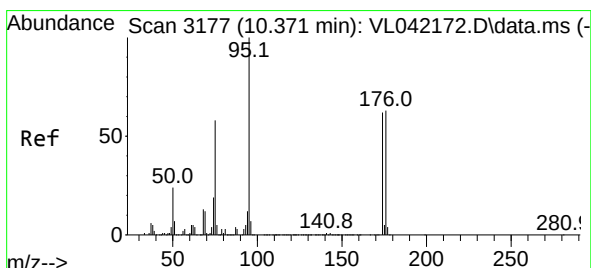
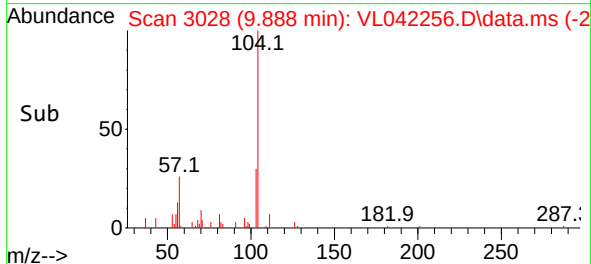
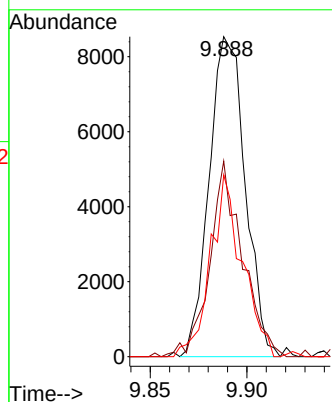
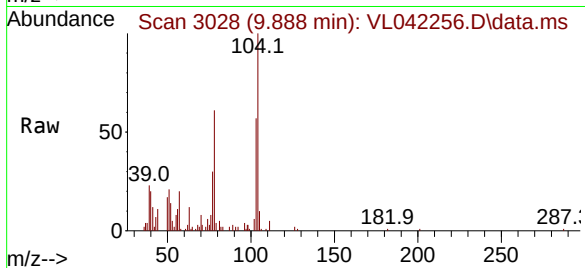
Tgt Ion:104 Resp: 11084

Ion Ratio Lower Upper

104 100

78 55.6 41.8 62.6

103 50.4 37.0 55.4



#68

1-Bromo-4-Fluorobenzene

Concen: 9.960 ppbv

RT: 10.393 min Scan# 3184

Delta R.T. 0.022 min

Lab File: VL042256.D

Acq: 08 Apr 2025 10:55

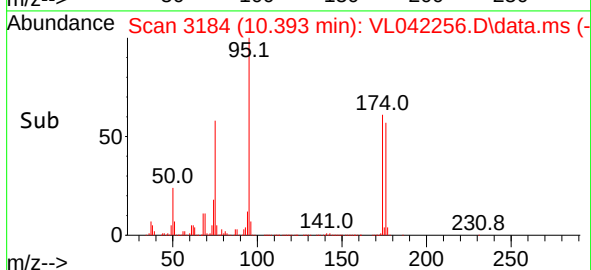
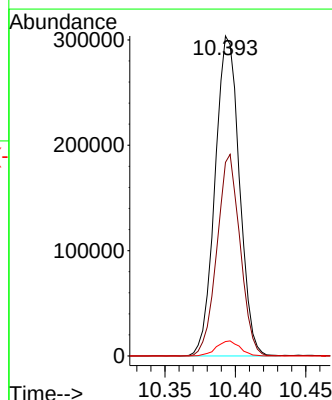
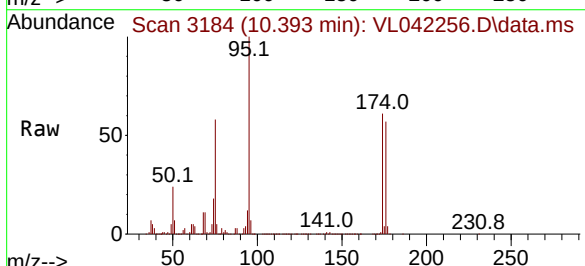
Tgt Ion: 95 Resp: 365114

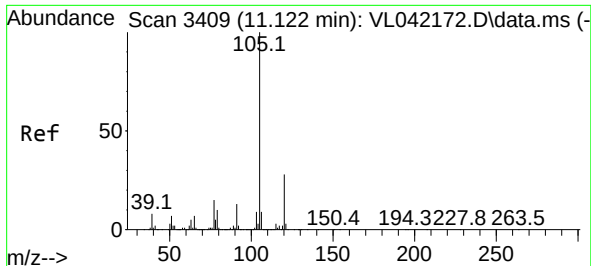
Ion Ratio Lower Upper

95 100

174 60.2 50.6 76.0

175 4.6 3.8 5.6

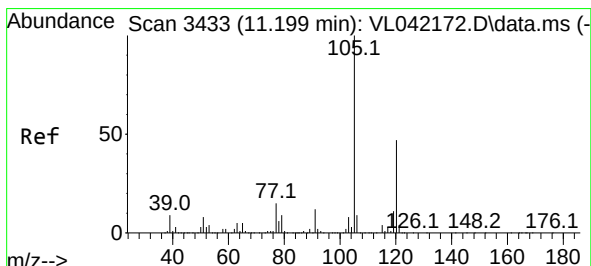
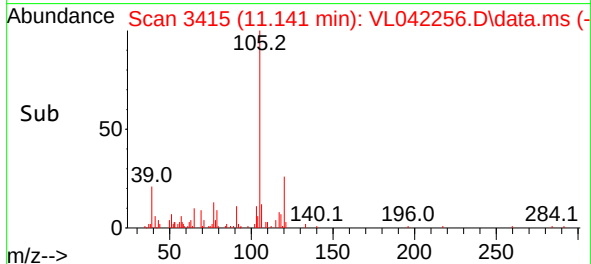
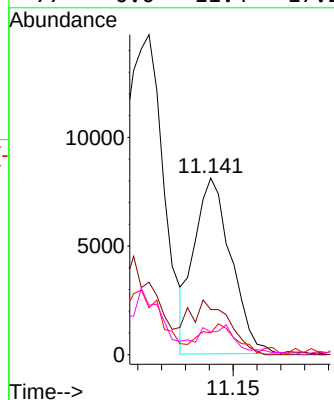
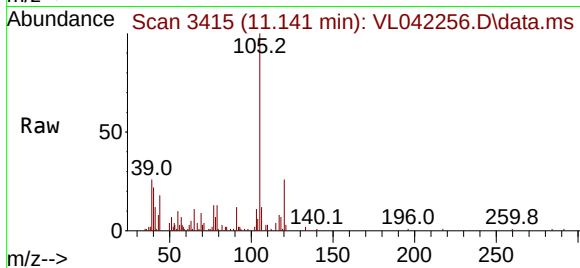




#72
4-Ethyltoluene
Concen: 0.110 ppbv
RT: 11.141 min Scan# 3415
Delta R.T. 0.019 min
Lab File: VL042256.D
Acq: 08 Apr 2025 10:55

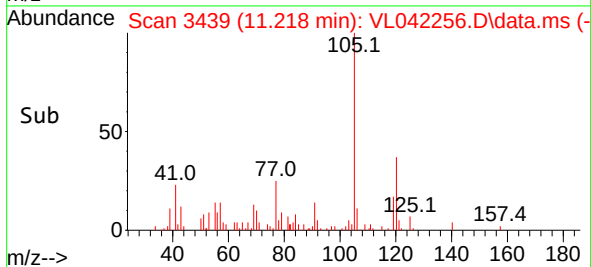
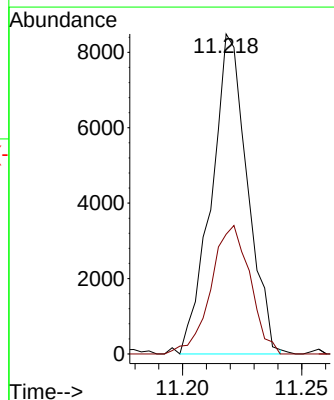
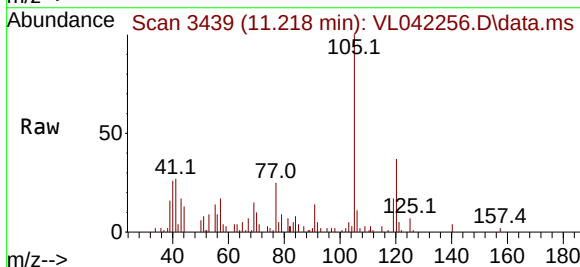
Instrument :
MSVOA_L
ClientSampleId :
SSSG-DUP-2-04012025

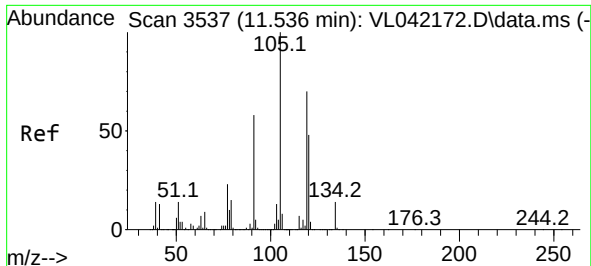
Tgt Ion:105	Resp:	8715
Ion Ratio	Lower	Upper
105	100	
120	0.0	23.4 35.0#
91	0.0	10.3 15.5#
77	0.0	11.4 17.2#



#73
1,3,5-Trimethylbenzene
Concen: 0.129 ppbv
RT: 11.218 min Scan# 3439
Delta R.T. 0.019 min
Lab File: VL042256.D
Acq: 08 Apr 2025 10:55

Tgt Ion:105	Resp:	8928
Ion Ratio	Lower	Upper
105	100	
120	37.4	37.4 56.0

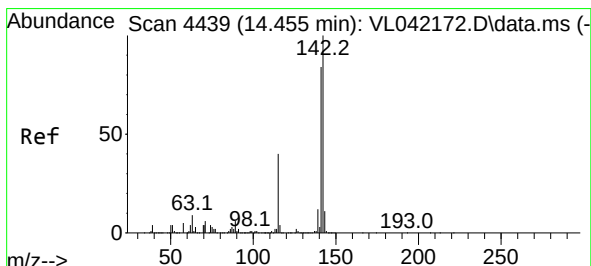
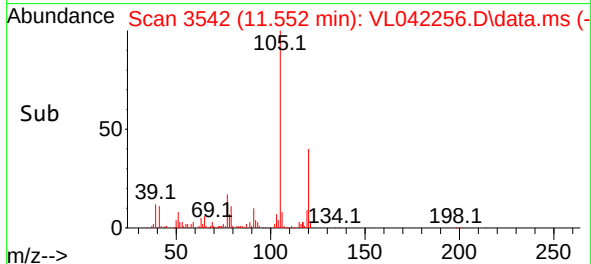
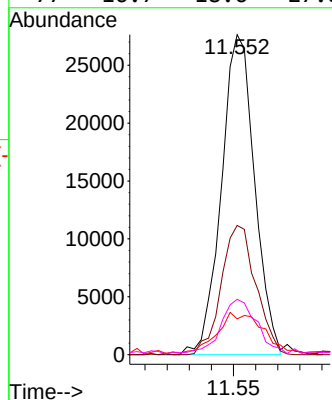
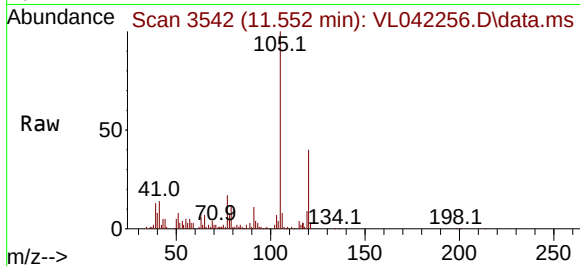




#74
1,2,4-Trimethylbenzene
Concen: 0.363 ppbv
RT: 11.552 min Scan# 31
Delta R.T. 0.016 min
Lab File: VL042256.D
Acq: 08 Apr 2025 10:55

Instrument :
MSVOA_1
ClientSampleId :
SSSG-DUP-2-04012025

Tgt Ion:	105	Resp:	28863
Ion	Ratio	Lower	Upper
105	100		
120	40.4	38.6	58.0
91	10.7	46.2	69.2#
77	16.7	18.6	27.8#



#80
Naphthalene,2-methyl-
Concen: 0.040 ppbv
RT: 14.481 min Scan# 4447
Delta R.T. 0.026 min
Lab File: VL042256.D
Acq: 08 Apr 2025 10:55

Tgt Ion:	142	Resp:	1713
Ion	Ratio	Lower	Upper
142	100		
141	81.6	66.3	99.5
115	44.8	31.6	47.4

